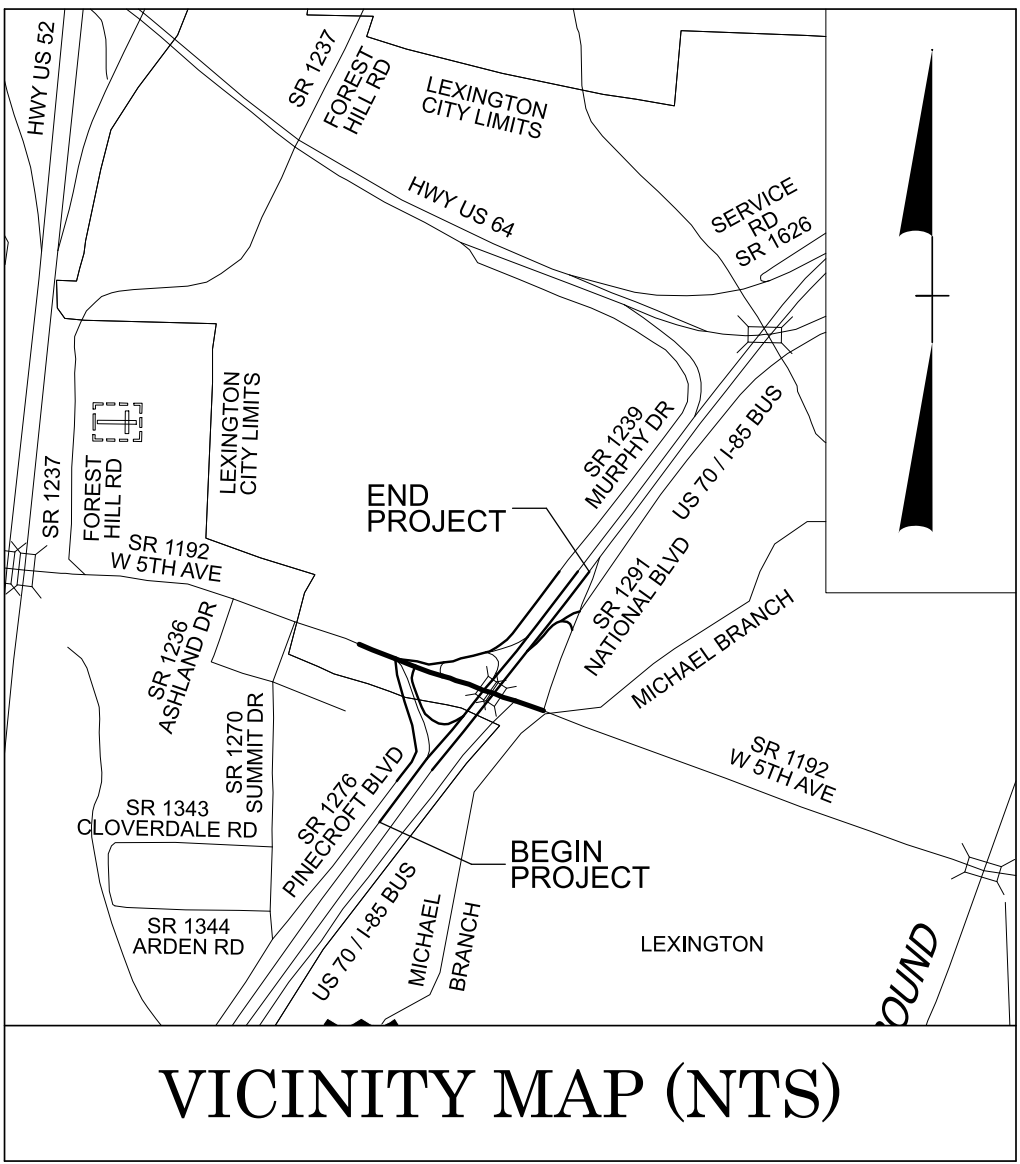


PROJECT: BR-0015

C205037

CONTRACT:



VICINITY MAP (NTS)

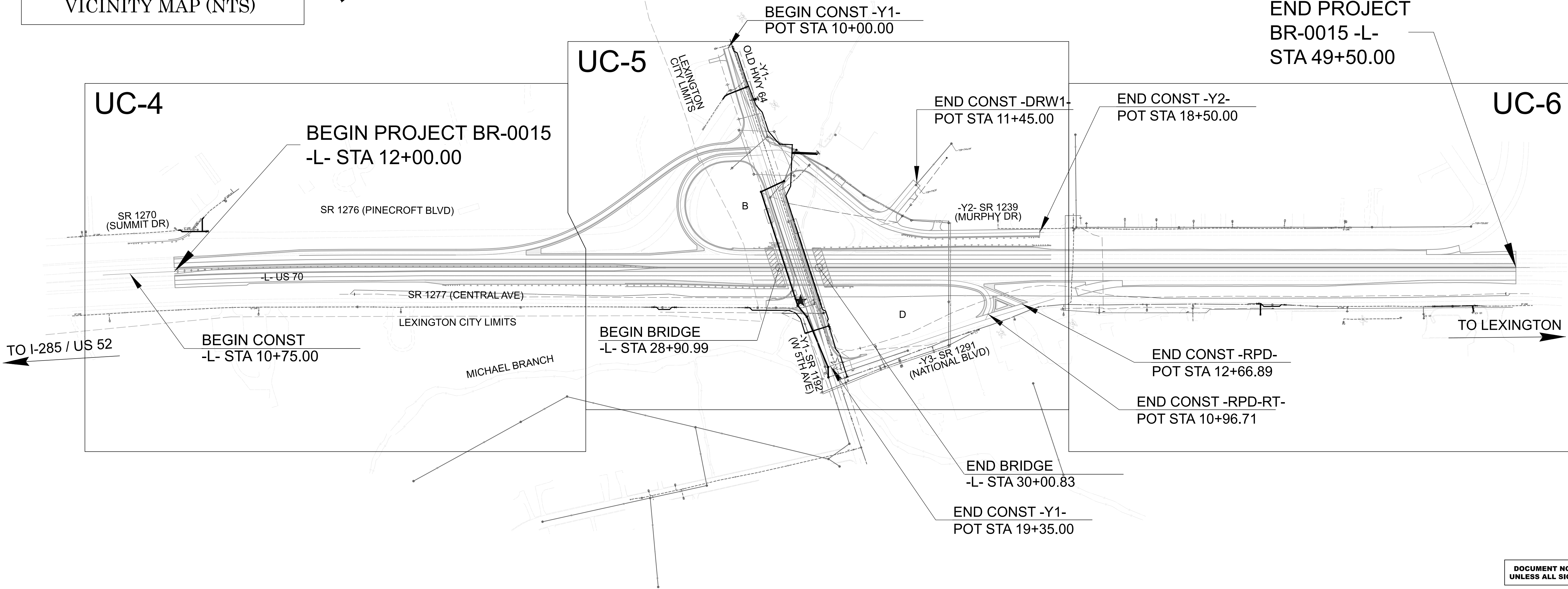
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

UTILITY CONSTRUCTION PLANS
DAVIDSON COUNTY

LOCATION: BRIDGE 280067 AND 280068 ON
US 29/US 70 OVER SR 1192

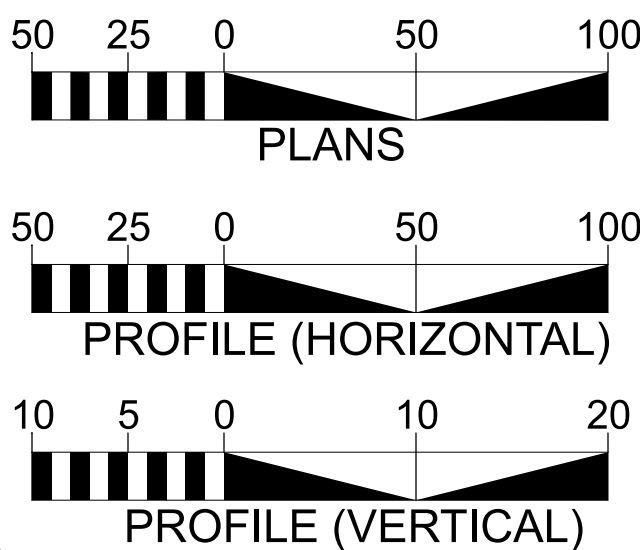
TYPE OF WORK: WATER LINE RELOCATION AND SANITARY SEWER RELOCATION

END PROJECT
BR-0015 -L-
STA 49+50.00



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

GRAPHIC SCALES



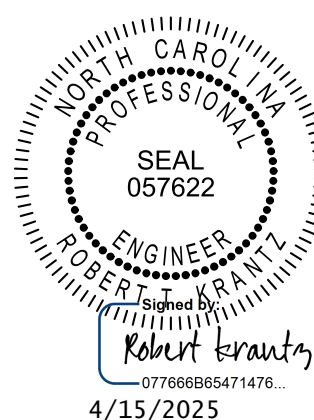
INDEX OF SHEETS

SHEET NO.:	DESCRIPTION:
UC-1	TITLE SHEET
UC-2	UTILITY SYMBOLOGY
UC-3	NOTES
UC-3A THRU UC-3B	DETAILS
UC-4 THRU UC-6	UTILITY CONSTRUCTION SHEETS
UC-7 THRU UC-9	PROFILE SHEETS

WATER AND SEWER
OWNERS ON PROJECT

- (A) WATER - CITY OF LEXINGTON
(B) SANITARY SEWER - CITY OF LEXINGTON

SEAL



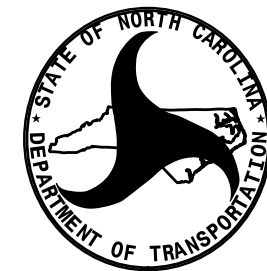
PREPARED IN THE OFFICE OF



STV Engineers, Inc.
2151 Hawkins St., Suite 1400
Charlotte, NC 28203
NC License Number F-0991

(704) 372-1885 FAX: (704) 372-3393

COLIN HUGHES, PE CONSULTANT CONTACT #1
ROBERT KRANTZ, PE CONSULTANT CONTACT #2
CONSULTANT CONTACT #3



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

AMY D. YORK UTILITIES REGIONAL ENGINEER
ALIREZA KOUCHEKI, PE UTILITIES ENGINEER
DAYTON C. MARTIN, III UTILITIES AREA COORDINATOR
MARK A. COLE, PE UTILITIES COORDINATOR

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

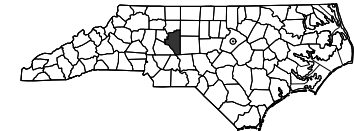
UTILITIES PLAN SHEET SYMBOLS

UTILITY CONSTRUCTION

BR-0015

UC-2

NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
DAVIDSON COUNTY



UTILITY DESIGN UNIT

UTILITY CONSTRUCTION
PLANS ONLY

ALL PROPOSED 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.

DESIGNED BY: RTK

DRAWN BY: GTM

CHECKED BY: CTH

APPROVED BY:

REVISED:

UTILITIES ENGINEERING SEC.
PHONE:(919)707-6690
FAX:(919)250-4151

stv
STV Engineers, Inc.
2151 Hawkins St., Suite 1400
Charlotte, NC 28203
NC License Number F-0991

NOTE

PAY ITEM

PROPOSED WATER SYMBOLS

Water Line (Sized as Shown)	WL
11¼ Degree Bend	
22½ Degree Bend	
45 Degree Bend	
90 Degree Bend	
Plug	
Tee	
Cross	
Reducer	
Gate Valve	GV
Butterfly Valve	BV
Tapping Valve	TGV
Line Stop	LS
Line Stop with Bypass	LS/BP
Blow Off	BO
Fire Hydrant	PFH
Relocate Fire Hydrant	REH
Remove Fire Hydrant	REM FH
Water Meter	PWM
Relocate Water Meter	RWM
Remove Water Meter	REM WM
Water Pump Station	PS(W)
RPZ Backflow Preventer	PRPZ
DCV Backflow Preventer	PBFP
Relocate RPZ Backflow Preventer	RRPZ
Relocate DCV Backflow Preventer	RBFP

PROPOSED SEWER SYMBOLS

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

PROPOSED MISCELLANEOUS UTILITIES SYMBOLS

Power Pole	
Telephone Pole	
Joint Use Pole	
Telephone Pedestal	TEL PED
Utility Line by Others (Type as Shown)	OH POW
Trenchless Installation	TRENCHLESS WL
Encasement Method	OPEN CUT
Encasement	

Thrust Block	
Air Release Valve	AR
Utility Vault	UV
Concrete Pier	CP
Steel Pier	SP
Plan Note	
Pay Item Note	

EXISTING UTILITIES SYMBOLS

Power Pole	
Telephone Pole	
Joint Use Pole	
Utility Pole	
Utility Pole with Base	
H-Frame Pole	
Power Transmission Line Tower	
Water Manhole	
Power Manhole	
Telephone Manhole	
Sanitary Sewer Manhole	
Hand Hole for Cable	
Power Transformer	
Telephone Pedestal	
CATV Pedestal	
Gas Valve	
Gas Meter	
Located Miscellaneous Utility Object	
Abandoned According to Utility Records	AATUR
End of Information	E.O.I.

*Underground Power Line	
*Underground Telephone Cable	
*Underground Telephone Conduit	
*Underground Fiber Optics Telephone Cable	
*Underground TV Cable	
*Underground Fiber Optics TV Cable	
*Underground Gas Pipeline	
Aboveground Gas Pipeline	A/G Gas
*Underground Water Line	
Aboveground Water Line	A/G Water
*Underground Gravity Sanitary Sewer Line	
Aboveground Gravity Sanitary Sewer Line	A/G Sanitary Sewer
*Underground SS Forced Main Line	
Underground Unknown Utility Line	
SUE Test Hole	
Water Meter	
Water Valve	
Fire Hydrant	
Sanitary Sewer Cleanout	

*For Existing Utilities

Utility Line Drawn from Record (Type as Shown)	
Designated Utility Line (Type as Shown)	

REVISIONS

UTILITY CONSTRUCTION

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 2024.
2. THE EXISTING UTILITIES BELONG TO THE CITY OF LEXINGTON.
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.

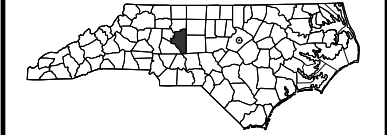
PROJECT SPECIFIC NOTES:

1. PROPOSED WATER LINES SHALL BE RESTRAINED JOINT DUCTILE IRON, PC 350 UNLESS INDICATED OTHERWISE. PROPOSED SANITARY SEWER SHALL BE RESTRAINED JOINT DUCTILE IRON, PC 350 UNLESS INDICATED OTHERWISE.
2. CONTRACTOR'S ATTENTION IS DIRECTED TO SECTIONS 102, 107, AND 1550 OF THE STANDARD SPECIFICATIONS CONCERNING TRENCHLESS INSTALLATION. IT IS CONTRACTOR'S RESPONSIBILITY TO HAVE BORE DESIGNED AND SEALED BY A LICENSED NORTH CAROLINA PROFESSIONAL ENGINEER. NO DAMAGE IS ALLOWED TO RIVER, WETLANDS, OR BUFFER ZONES.
3. BACKFLOWS REQUIRED TO BE RELOCATED AND/OR INSTALLED UNDER THIS CONTRACT SHALL INCLUDE, BUT NOT BE LIMITED TO, DISCONNECTING, DESIGNING, PERMITTING, RELOCATING, INSTALLING AND/OR RE-CONNECTING OF THE BACKFLOWS AWAY FROM THE PROJECT LIMITS OR IMPACTED AREA(S). BACKFLOW WORK SHALL BE PERFORMED BY A CERTIFIED CROSS-CONNECTION CONTROL/BACKFLOW PREVENTER SYSTEM SPECIALIST/PLUMBER ACCEPTABLE TO THE UTILITY OWNER. THE COMPLETED WORK MUST MEET ALL LOCAL AND STATE ORDINANCES GOVERNING CROSS-CONNECTION CONTROL/BACKFLOW PREVENTER SYSTEMS. BACKFLOW PREVENTER SYSTEMS INSTALLED OR RELOCATED SHALL NOT BE CONSIDERED COMPLETE UNTIL ACCEPTED BY THE UTILITY OWNER.
4. CONTRACTOR SHALL COORDINATE WITH THE UTILITY OWNER CONCERNING THE TIMING AND SCHEDULE OF REQUIRED SHUT-DOWNS OF ANY EXISTING WATER OR SEWER MAINS.

BR-0015

UC-3

NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
DAVIDSON COUNTY



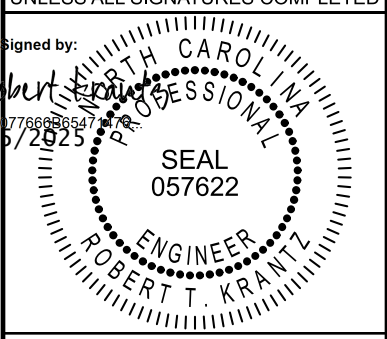
UTILITY DESIGN UNIT

UTILITY CONSTRUCTION
PLANS ONLY

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UNLESS ALL SIGNATURES COMPLETED

4/18/2025

Robert T. Krafft



DESIGNED BY: RTK


DRAWN BY: GTM

CHECKED BY: CTH

APPROVED BY:

REVISED:

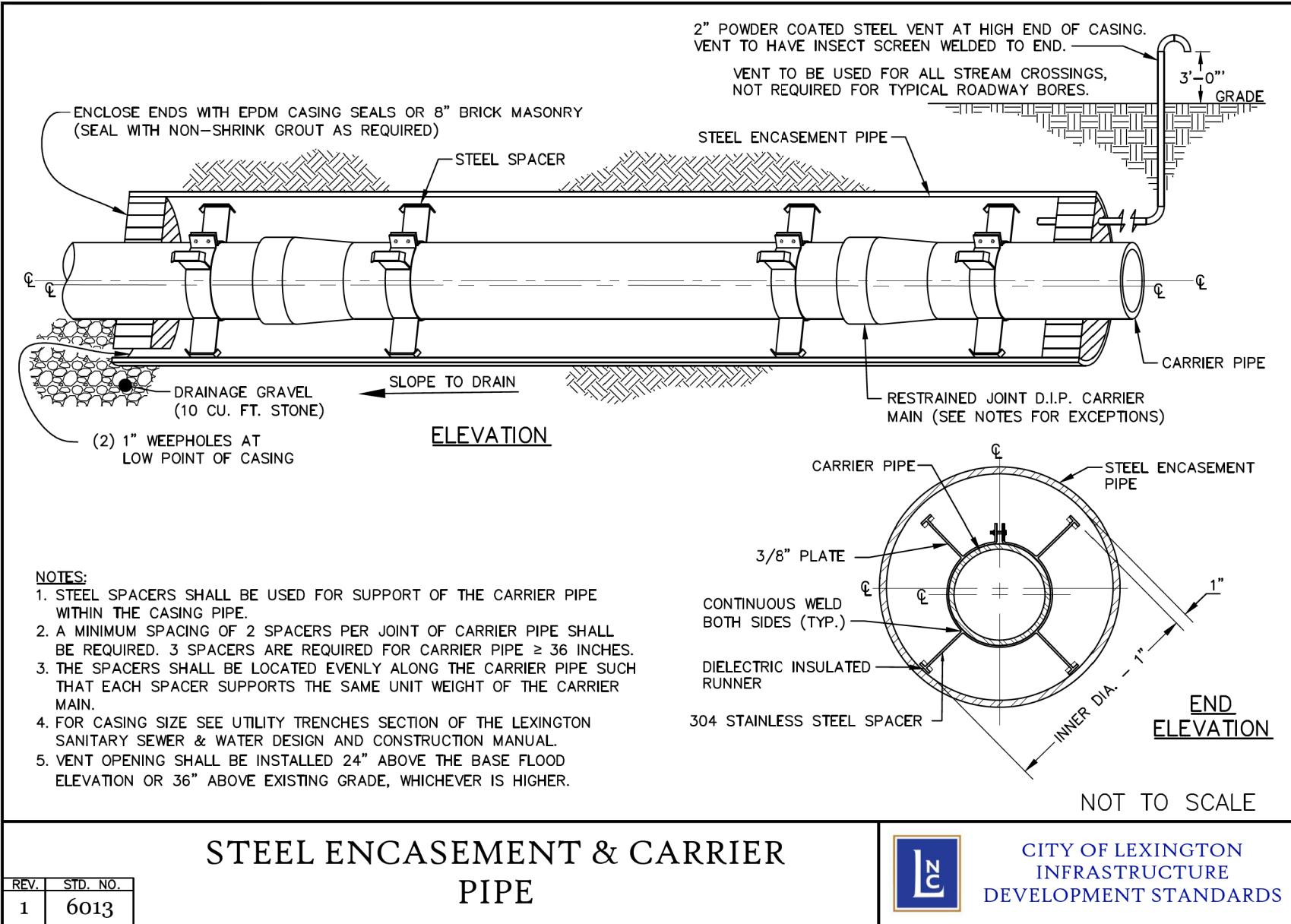
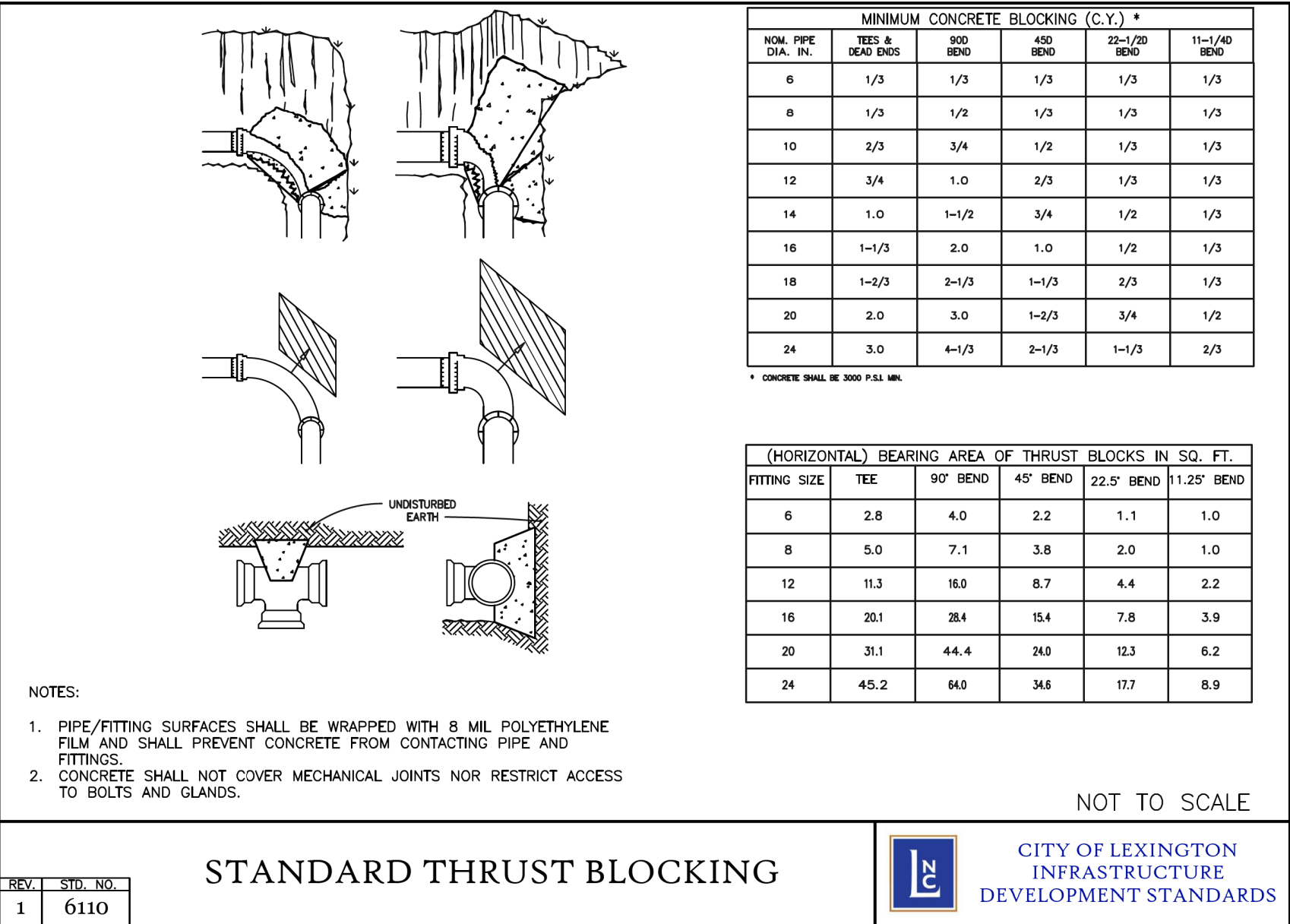
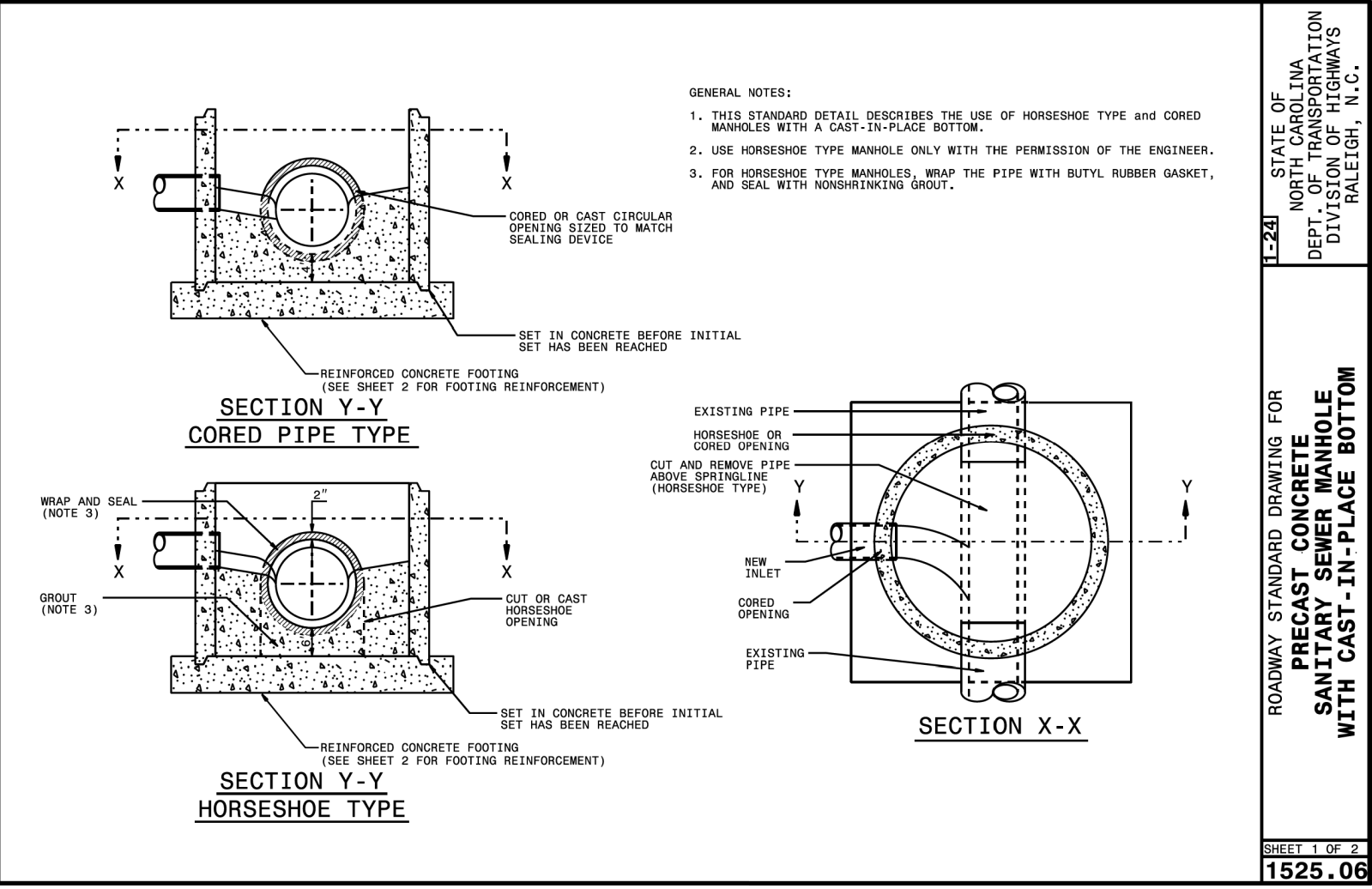
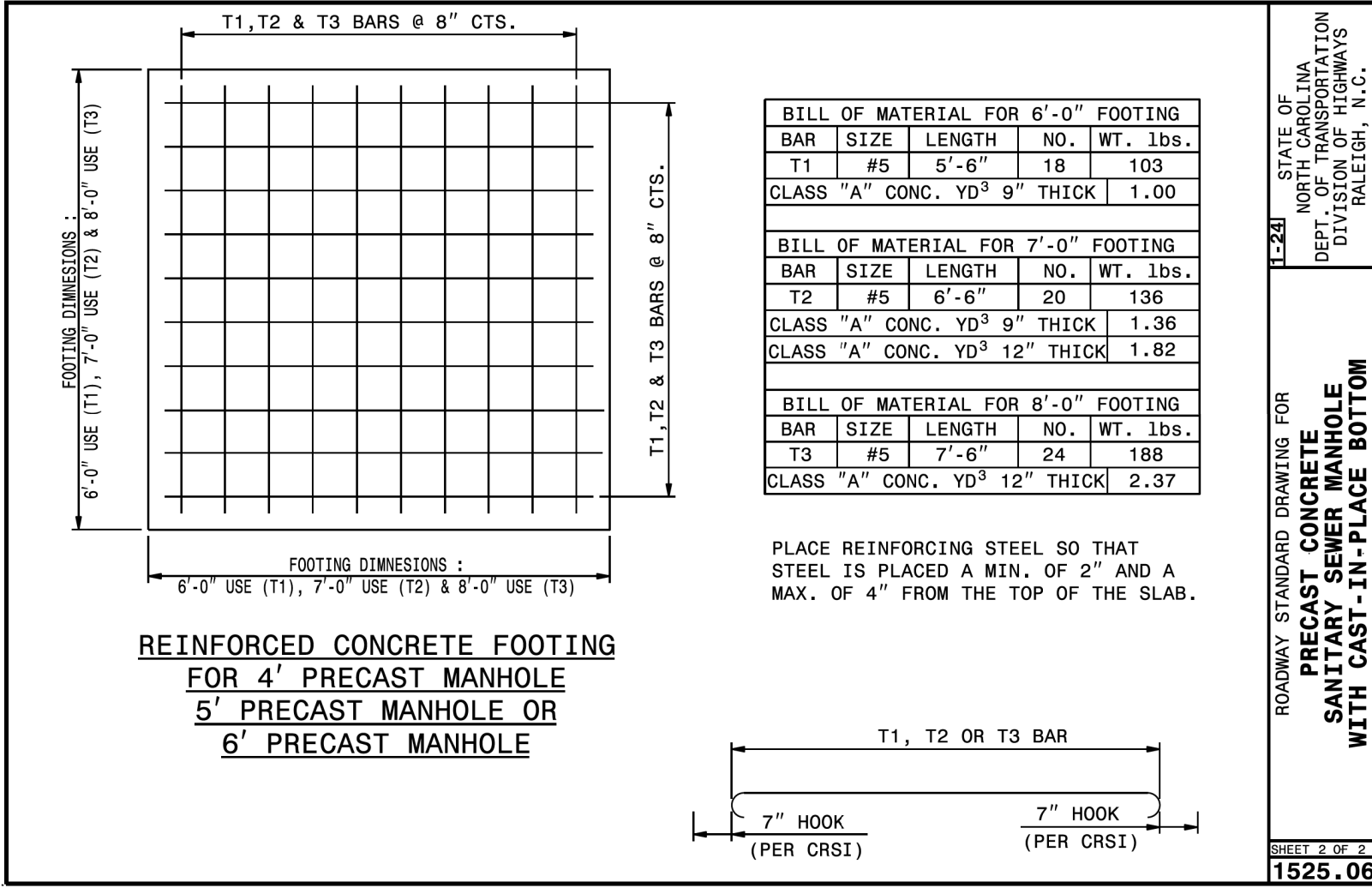
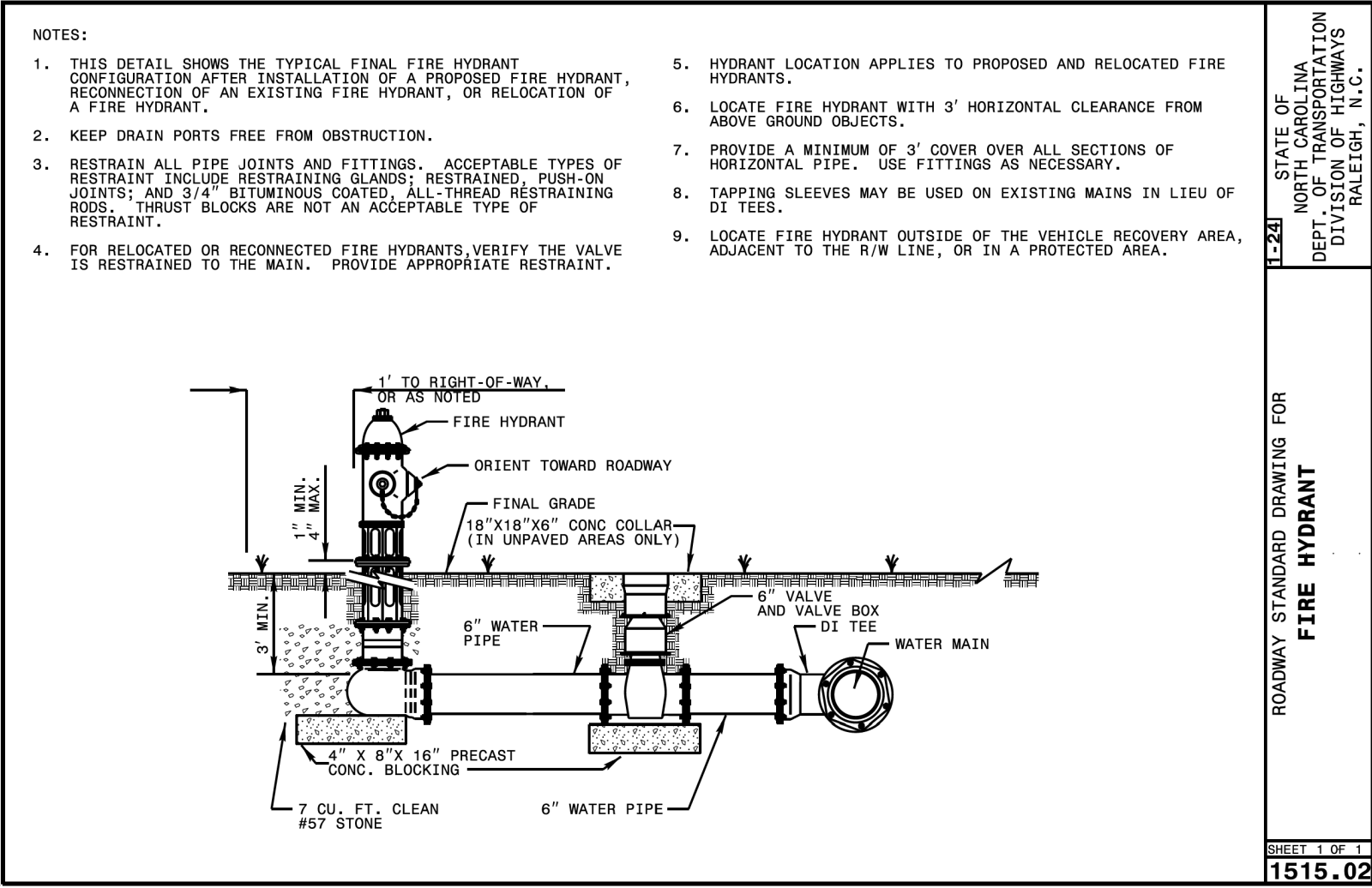
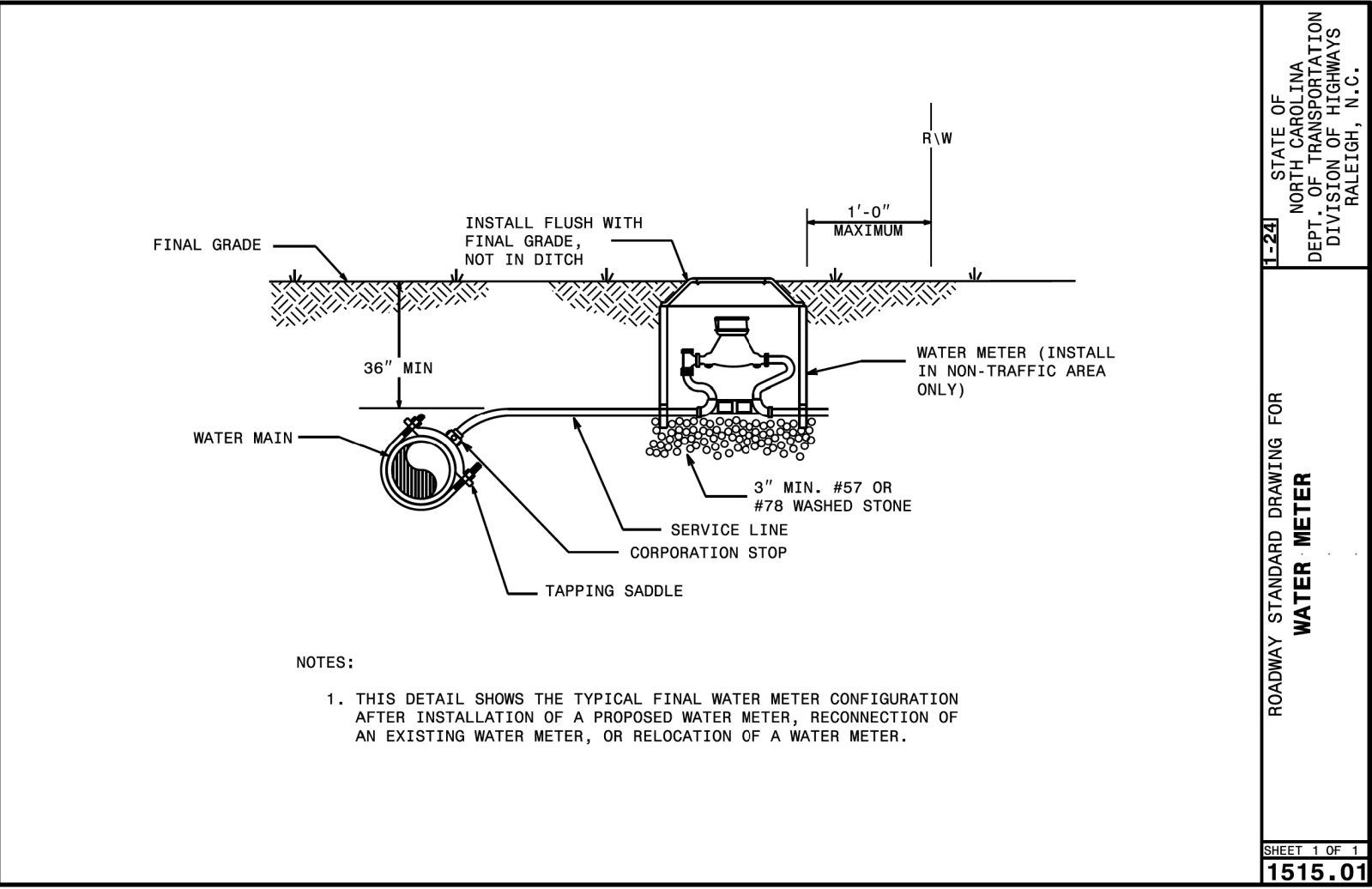
UTILITIES ENGINEERING SEC.
PHONE: (919) 707-6690
FAX: (919) 250-4151

**STV** Engineers, Inc.

2151 Hawkins St., Suite 1400
Charlotte, NC 28203
NC License Number F-0991

REVISIONS

UTILITY CONSTRUCTION



BR-0015 UC-3A

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DAVIDSON COUNTY

UTILITY DESIGN UNIT

UTILITY CONSTRUCTION PLANS ONLY

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

4/15/2025

SEAL 057622

ENGINEER ROBERT T. KRAFT

DESIGNED BY: RTK

DRAWN BY: GTM

CHECKED BY: CTH

APPROVED BY:

REVISED:

UTILITIES ENGINEERING SEC. PHONE:(919)707-6690 FAX:(919)250-4151

STV Engineers, Inc. 2151 Hawkins St., Suite 1400 Charlotte, NC 28203 NC License Number F-0991

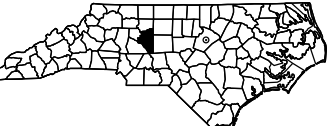
REVISIONS

UTILITY CONSTRUCTION

BR-0015

UC-3B

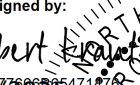
NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
DAVIDSON COUNTY

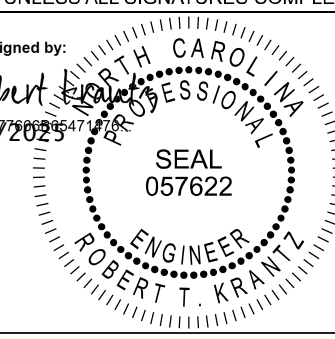


UTILITY DESIGN UNIT

UTILITY CONSTRUCTION
PLANS ONLY

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Signed by

7/15/2025



DESIGNED BY: RTK


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CHECKED BY: CTH

APPROVED BY:

REVISED:

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STV Engineers, Inc.
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Charlotte, NC 28203
NC License Number F-0991

NOTES:

1. PIPES LARGER THAN 12" DIAMETER SHALL HAVE THE BEDDING MATERIAL AND THICKNESS SPECIFIED BY THE CITY ENGINEER.

2. SEE DETAIL L-100 FOR ASPHALT REPAIR REQUIREMENTS FOR SEWER INSTALLATION WITHIN EXISTING CITY STREETS.

3. ALL BACKFILL SHALL BE COMPACTED TO MINIMUM 95% STD PROCTOR DENSITY.

4. WHEN BACKFILL MATERIAL IS UNSPECIFIED, NATIVE SOILS MAY BE USED IF APPROVED BY THE CITY OF LEXINGTON CONSTRUCTION INSPECTOR. OTHERWISE USE ASTM 2321 CLASS II OR CLASS III (OR CLASS IA OR IB) SOILS.


NOT TO SCALE

1

STD. NO.

6001

BEDDING AND BACKFILL FOR SANITARY SEWER PIPE INSTALLATION

CITY OF LEXINGTON
INFRASTRUCTURE
DEVELOPMENT STANDARDS

NOTES:

1. PRECAST CONCRETE MANHOLES SHALL CONFORM TO ASTM C-478. ALL MANHOLES MUST CURE A MIN OF 3 DAYS PRIOR TO SHIPMENT.

2. 4" DIAMETER MANHOLE SHALL BE USED WITH PIPE DIAMETERS LESS THAN 18".

3. FOR DEAD-END MANHOLES, THE INVERT SHALL BE EXTENDED THROUGH THE MANHOLE.

4. ON THE INTERIOR OF THE MANHOLE, ALL JOINTS BETWEEN SECTIONS SHALL BE PAIRED WITH NON-SHRINK GROUT.

5. TOP STEP SHALL BE INSTALLED IN CONE SECTION MAX 24" FROM TOP OF FRAME. REFER TO STD 6012.

6. FLAT TOP MANHOLES MUST BE APPROVED BY CITY ENGINEER. ALL TOP SLABS SHALL BE DESIGNED FOR H-20 WHEEL LOAD.

7. ALL LIFT HOLES SHALL BE COMPLETELY FILLED WITH NON-SHRINK GROUT AFTER MH IS SET.


NOT TO SCALE

1

STD. NO.

6002

STANDARD PRECAST MANHOLE

CITY OF LEXINGTON
INFRASTRUCTURE
DEVELOPMENT STANDARDS

NOTES:

1. CLEANOUT SHALL BE PLACED AS CLOSE TO THE PUBLIC RIGHTS-OF-WAY OR PUBLIC SANITARY SEWER EASEMENT BOUNDARY AS POSSIBLE. CLEANOUTS SHALL NOT BE INSTALLED WITHIN THE SIDEWALK, DRIVEWAY OR OTHER HARD SURFACE UNLESS APPROVED BY THE CITY ENGINEER. IN NO CASE SHALL THE CLEANOUT BE INSTALLED INSIDE A FENCED AREA.

2. SEWER SERVICE LINE MUST BE DUCTILE IRON IF LESS THAN 12" VERTICAL SEPARATION WITH OTHER UTILITIES OR STORM DRAINAGE.

3. WHEN LATERALS CONNECT TO SEWER MAINS OF DISSIMILAR MATERIAL, A SOLID BODY SLEEVE MUST BE USED.


NOT TO SCALE

1

STD. NO.

6003

4-INCH SEWER SERVICE

CITY OF LEXINGTON
INFRASTRUCTURE
DEVELOPMENT STANDARDS

NOTES:

1. "SANITARY SEWER" OR "WATER" SHALL BE FORGED INTO COVER AS APPROPRIATE.

2. FOUR (4) 1/2" X 2" HEXHEAD SS BOLTS (TYPE 316) TO FASTEN COVER TO RING. BOLTHREAD TO BE COUNTERSUNK INTO COVER.

3. CLEAR OPENING OF MANHOLE RING MAY BE REDUCED BY THE RECEIVING LUGS FOR THE FOUR BOLTS.


NOT TO SCALE

1

STD. NO.

6008B

SANITARY SEWER MANHOLE RING AND COVER TYPE 2

CITY OF LEXINGTON
INFRASTRUCTURE
DEVELOPMENT STANDARDS

NOTES:

1. DOGHOUSE OPENINGS IN PRECAST UNITS SHALL HAVE A RADIUS OF 4 TO 8 INCHES LARGER THAN THE EXISTING PIPE DIAMETER.

2. CAST-IN-PLACE CONCRETE SHALL BE 4000 PSI, PER ASTM C-84.

3. ALL PRECAST MANHOLE COMPONENTS SHALL MEET ASTM C-478.

4. BENCH SHALL SLOPE UPWARD FROM THE SPRINGLINE TO THE PROJECTED LEVEL OF THE PIPE CROWN OR 8 INCHES ABOVE THE SPRINGLINE, WHICHEVER IS LESS.


NOT TO SCALE

1

STD. NO.

6010

STANDARD PRECAST CONCRETE DOGHOUSE MANHOLE

CITY OF LEXINGTON
INFRASTRUCTURE
DEVELOPMENT STANDARDS

NOTES:

1. VERTICAL SPACING = 16" ON CENTER, ON VERTICAL WALL ONLY.

2. STEPS SHALL BE MADE OF COPOLYMER POLYPROPYLENE PLASTIC WITH 1/8" GRADE 60 STEEL REINFORCEMENT.

3. ALL STEPS SHALL BE POURED INTEGRALLY WITH THE MANHOLE SECTION.

4. STEPS SHALL MEET ASTM C-478 AND A HORIZONTAL PULL-OUT LOAD OF A MIN. 1000 LBS.

5. ALL STEPS SHALL BE VERTICALLY ALIGNED IN A STRAIGHT LINE.


NOT TO SCALE

1

STD. NO.

6012

MANHOLE STEP

CITY OF LEXINGTON
INFRASTRUCTURE
DEVELOPMENT STANDARDS

- NOTES:
1. CONNECT PROPOSED WATER LINES TO EXISTING WATER LINE USING NECESSARY FITTINGS AND TRANSITION COUPLINGS RECOMMENDED BY PIPE MANUFACTURER. CONTRACTOR TO SCHEDULE SHUT DOWN AND CONNECTION TO EXISTING WATER LINE WITH UTILITY OWNER. CONTRACTOR TO FIELD VERIFY EXISTING PIPE MATERIAL AND DEPTHS AT TIE-IN POINTS.
 2. CONTRACTOR SHALL MAINTAIN A MINIMUM DEPTH OF 36" WHEN INSTALLING WATERLINE ON THIS SHEET.

UTILITY CONSTRUCTION

BR-0015

UC-4

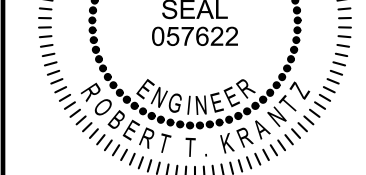


UTILITY DESIGN UNIT

UTILITY CONSTRUCTION PLANS ONLY

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Signed by: Robert T. Krafft, Professional Engineer, No. 057622, State of North Carolina



DESIGNED BY: RTK

DRAWN BY: GTM

CHECKED BY: CTH

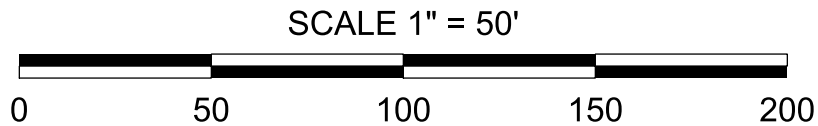
APPROVED BY:

REVISED:
UTILITIES ENGINEERING SEC.
PHONE: (919) 707-6690
FAX: (919) 250-4151



MATCH LINE -R-B-
SEE SHEET UC-5
STA. 13+50.00'

MATCH LINE -L-
STA. 23+50.00, SEE SHEET UC-5



THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 505 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

REVISIONS

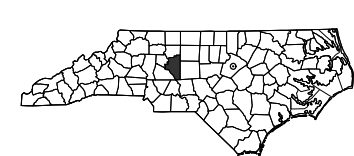
NOTES:
1. CONNECT PROPOSED WATER LINES TO EXISTING WATER LINE USING NECESSARY FITTINGS AND TRANSITION COUPLINGS RECOMMENDED BY PIPE MANUFACTURER. CONTRACTOR TO SCHEDULE SHUT DOWN AND CONNECTION TO EXISTING WATER LINE WITH UTILITY OWNER. CONTRACTOR TO FIELD VERIFY EXISTING PIPE MATERIAL AND DEPTHS AT TIE-IN POINTS.

UTILITY CONSTRUCTION

BR-0015

UC-5

NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
DAVIDSON COUNTY

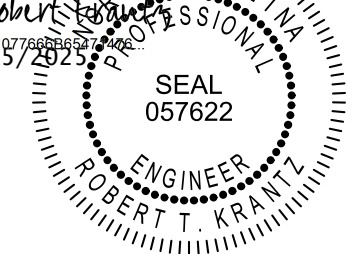


UTILITY DESIGN UNIT

UTILITY CONSTRUCTION
PLANS ONLY

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Signed by:
4/5/2025



DESIGNED BY: RTK

DRAWN BY: GTM

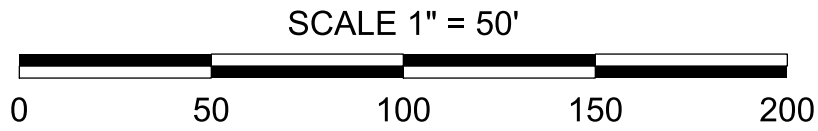
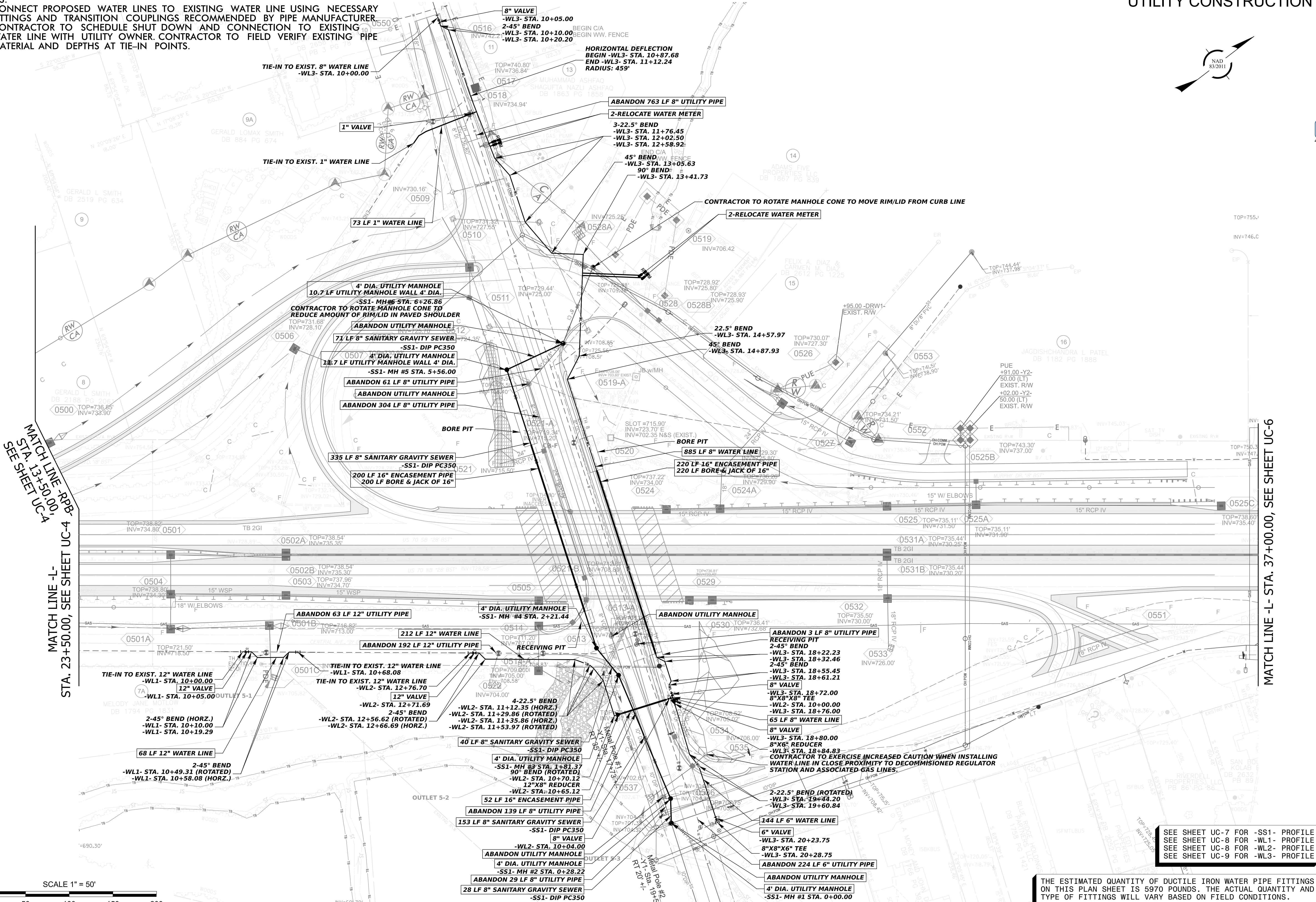
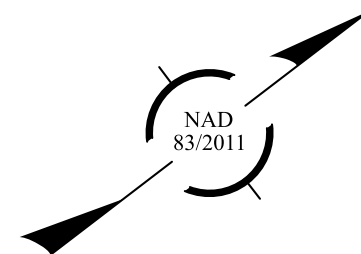
CHECKED BY: CTH

APPROVED BY:

REVISED:

UTILITIES ENGINEERING SEC.
PHONE: (919) 707-6690
FAX: (919) 250-4151

stv
STV Engineers, Inc.
2151 Hawking St., Suite 1400
Charlotte, NC 28203
NC License Number F-0991



SEE SHEET UC-7 FOR -SS1- PROFILE
SEE SHEET UC-8 FOR -WL1- PROFILE
SEE SHEET UC-8 FOR -WL2- PROFILE
SEE SHEET UC-9 FOR -WL3- PROFILE

THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 5970 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

REVISIONS

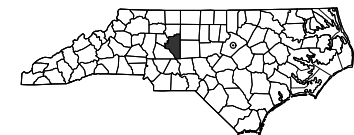
NOTES:
1. CONNECT PROPOSED WATER LINES TO EXISTING WATER LINE USING NECESSARY FITTINGS AND TRANSITION COUPLINGS RECOMMENDED BY PIPE MANUFACTURER. CONTRACTOR TO SCHEDULE SHUT DOWN AND CONNECTION TO EXISTING WATER LINE WITH UTILITY OWNER. CONTRACTOR TO FIELD VERIFY EXISTING PIPE MATERIAL AND DEPTHS AT TIE-IN POINTS.

UTILITY CONSTRUCTION

BR-0015

UC-6

NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
DAVIDSON COUNTY



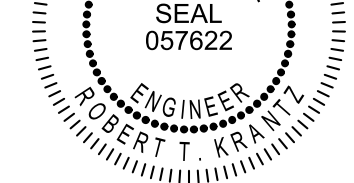
UTILITY DESIGN UNIT

UTILITY CONSTRUCTION
PLANS ONLY

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

Signed by:

Robert T. Krafft
Professional Engineer
No. 07765



DESIGNED BY: RTK

DRAWN BY: GTM

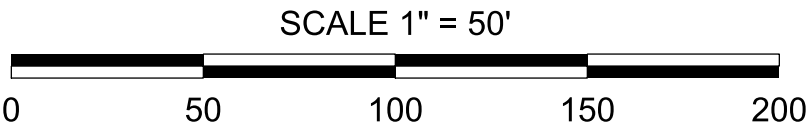
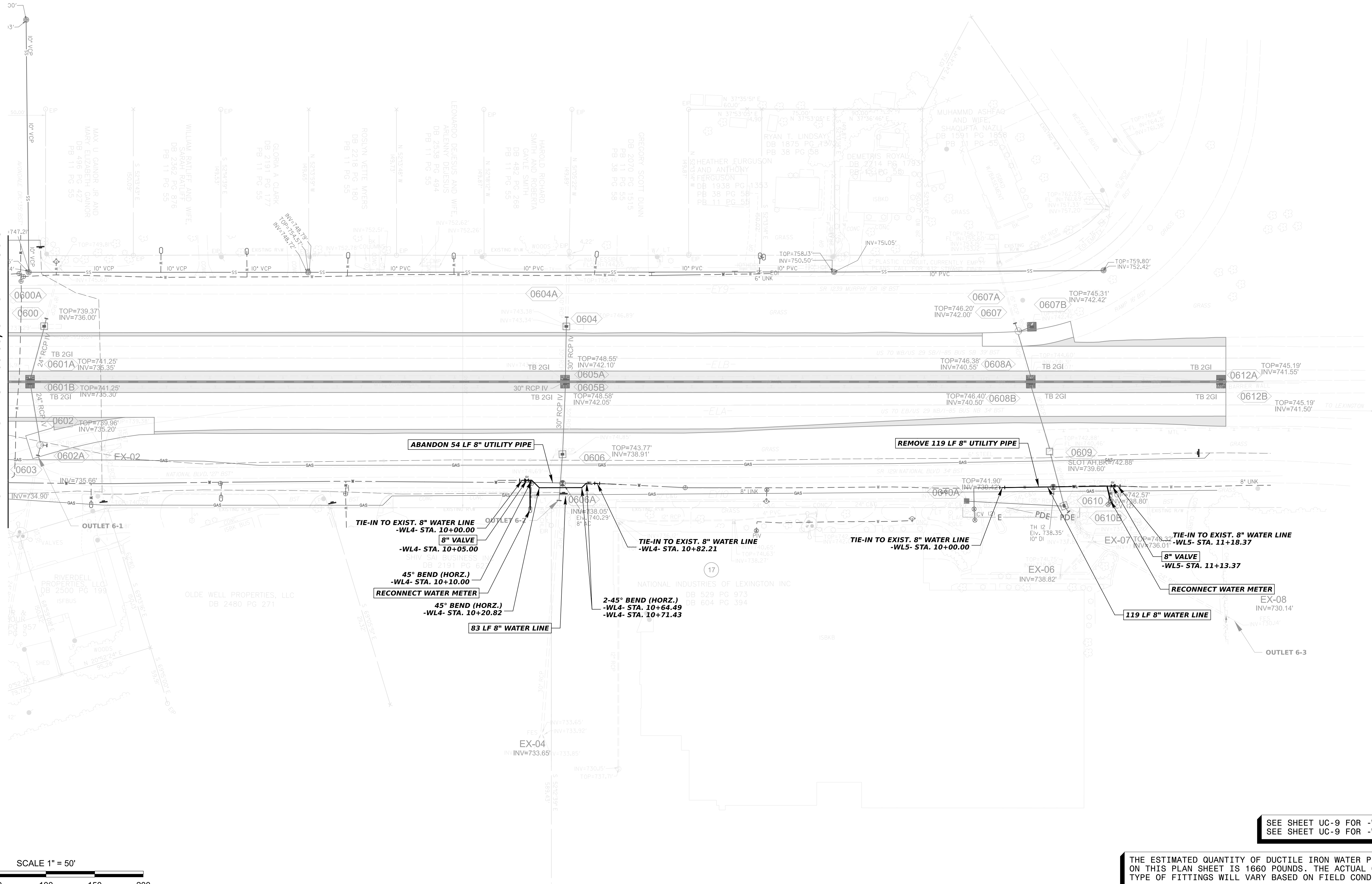
CHECKED BY: CTH

APPROVED BY:

REVISED:
UTILITIES ENGINEERING SEC.
PHONE: (919) 707-6690
FAX: (919) 250-4151

stv
STV Engineers, Inc.
2151 Hawkins St., Suite 1400
Charlotte, NC 28203
NC License Number F-0991

MATCH LINE -L- STA. 37+00.00, SEE SHEET UC-5

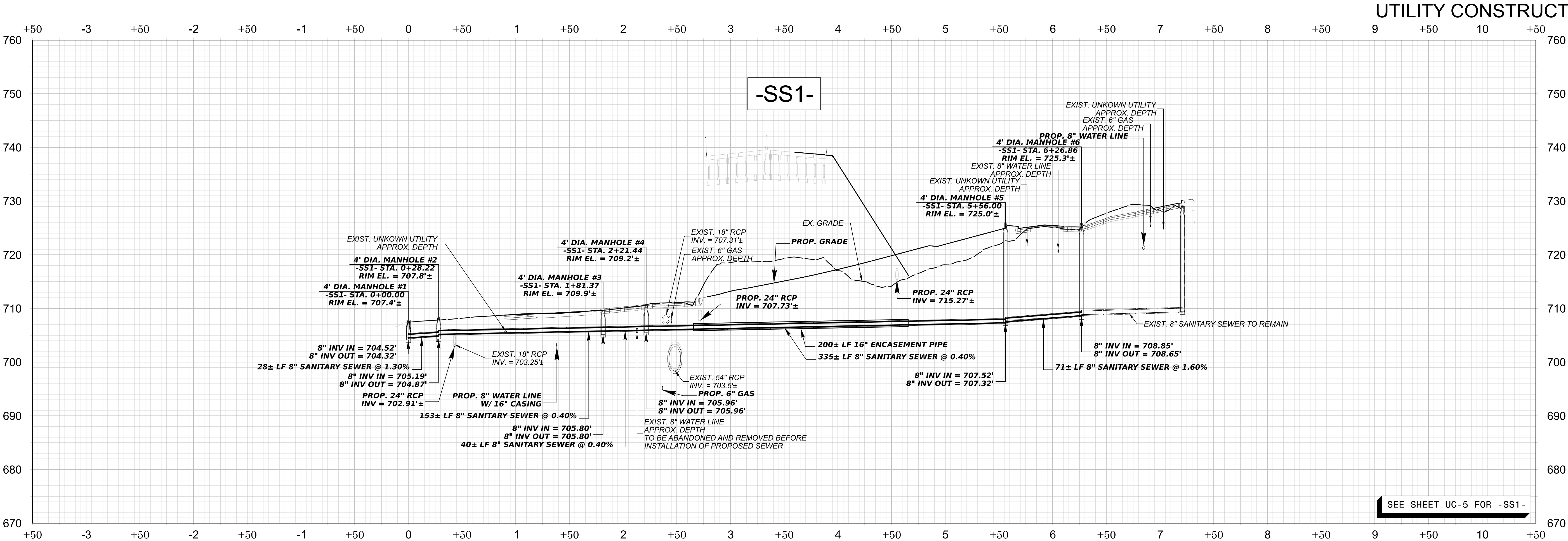


SEE SHEET UC-9 FOR -WL4- PROFILE
SEE SHEET UC-9 FOR -WL5- PROFILE

THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 1660 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

REVISIONS

09-28-21

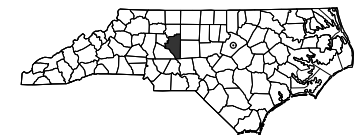


UTILITY CONSTRUCTION

BR-0015

UC-7

NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
DAVIDSON COUNTY

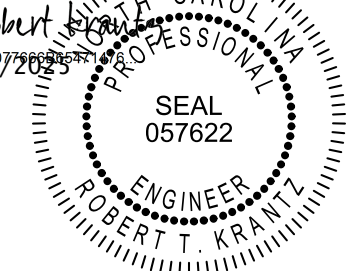


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Signed by: *Robert T. Krantz*
4/15/2021



DESIGNED BY: RTK

DRAWN BY: GTM

CHECKED BY: CTH

APPROVED BY:

REVISED:

UTILITIES ENGINEERING SEC.
PHONE: (919) 707-6690
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stv 
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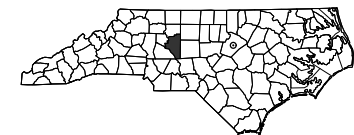
REVISIONS

UTILITY CONSTRUCTION

BR-0015

UC-8

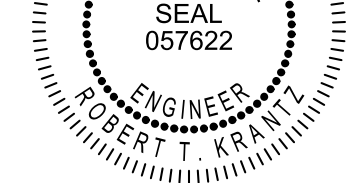
NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
DAVIDSON COUNTY



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Signed by:
4/18/2025



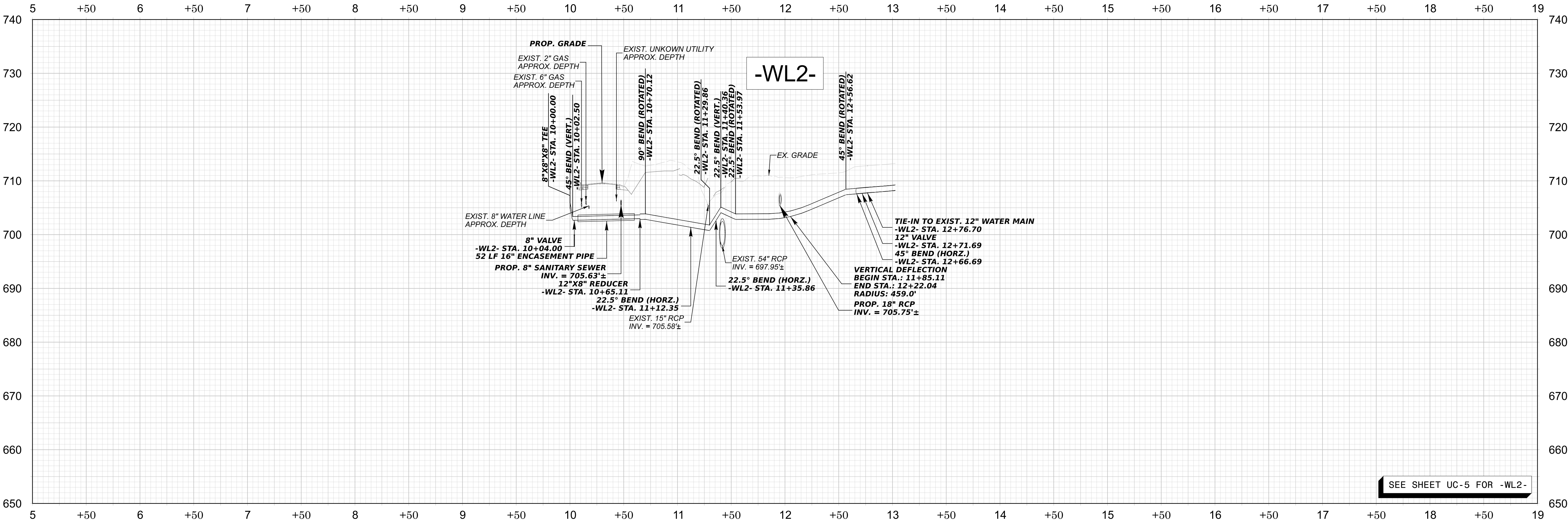
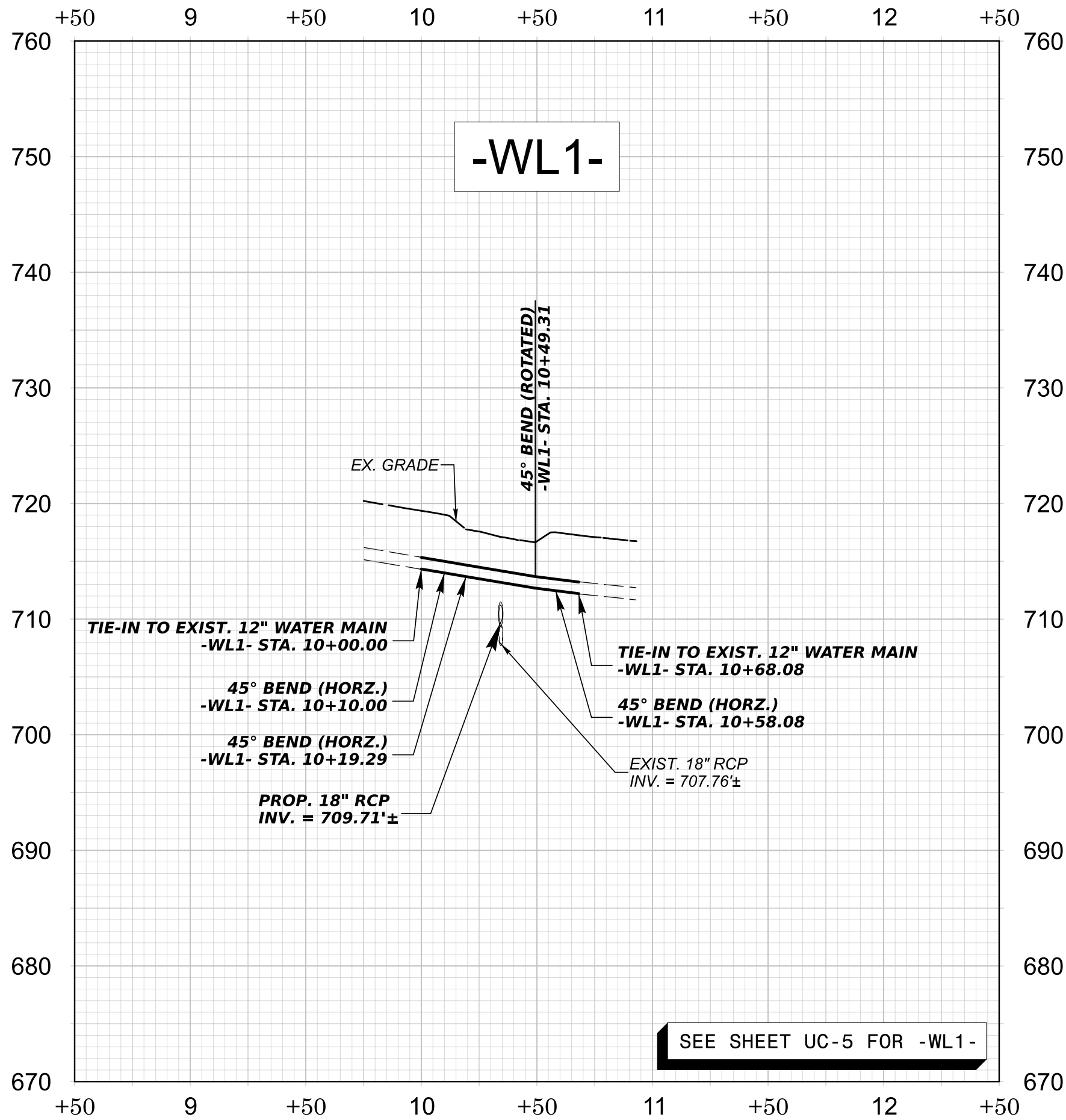
DESIGNED BY: RTK

DRAWN BY: GTM

CHECKED BY: CTH

APPROVED BY:

REVISED:
UTILITIES ENGINEERING SEC.
PHONE: (919) 707-6690
FAX: (919) 250-4151

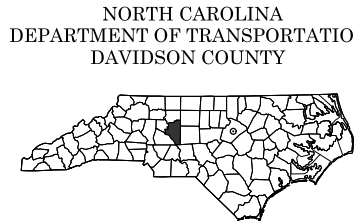


REVISIONS

UTILITY CONSTRUCTION

BR-0015

UC-9



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Signed by: *[Signature]*
4/15/2021
SEAL
057622
ENGINEER
ROBERT T. KRANTZ

DESIGNED BY: RTK
DRAWN BY: GTM
CHECKED BY: CTH
APPROVED BY:
REVISED:
UTILITIES ENGINEERING SEC.
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FAX: (919) 250-4151

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