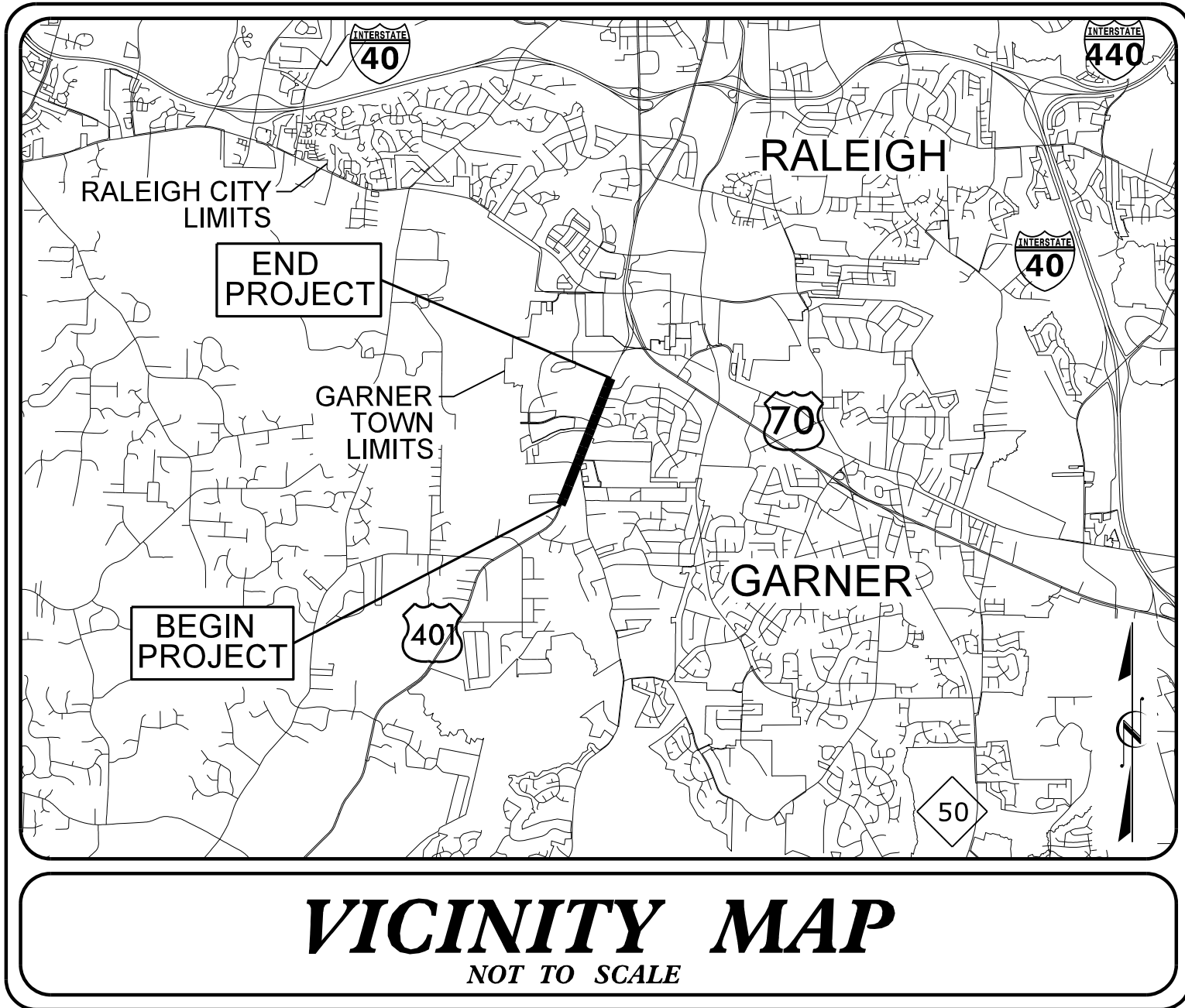


TIP PROJECT: U-5302

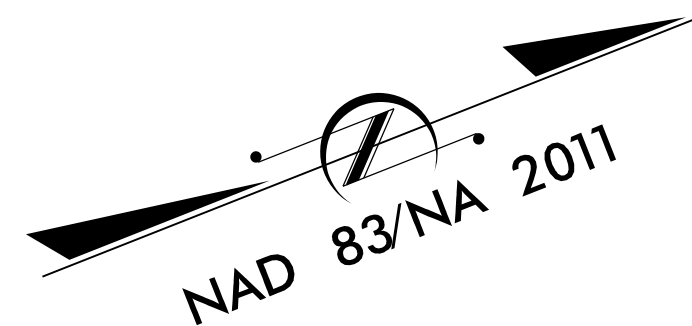


STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

UTILITY CONSTRUCTION PLANS WAKE COUNTY

**LOCATION: US 401 SOUTH OF SR 1006 (OLD STAGE ROAD) TO SOUTH
OF SR 2538 (MECHANICAL BOULEVARD) IN GARNER**

TYPE OF WORK: WATER AND SEWER RELOCATIONS



Public
Water Distribution / Extension System
The City of Raleigh consents to the connection and extension of the City's public water system as shown on this plan. The material and Construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.
City of Raleigh
Public Utilities Department Permit # **W-3663 REV**

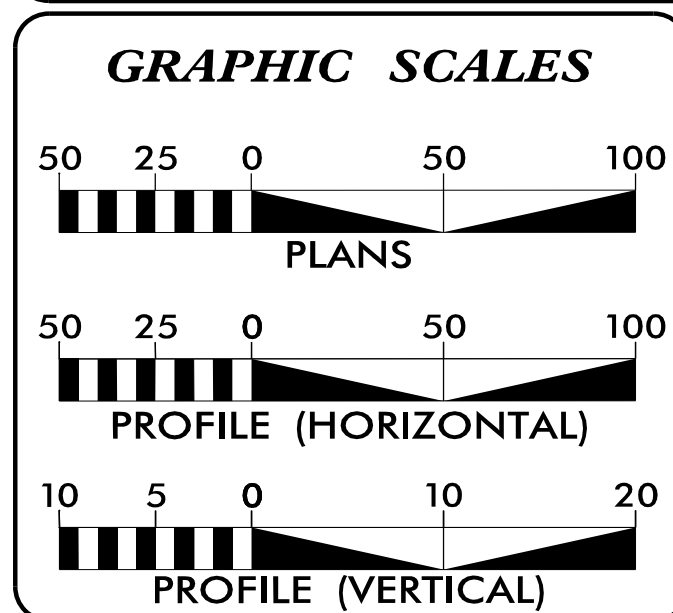
Public
Sewer Collection / Extension System
The City of Raleigh consents to the connection and extension of the City's public sewer system as shown on this plan. The material and Construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.
City of Raleigh
Public Utilities Department Permit # **S-4586 REV**

RALEIGH WATER - PLANS AUTHORIZED FOR CONSTRUCTION
Any work authorized by this approval must proceed in accordance with the plans. This electronic approval may not be edited once issued. Any modification to this approval once issued will invalidate this approval.
Signed by: *Mitchell Wilson* 1/20/2026
7187888F05EE453

INFRASTRUCTURE INSPECTIONS QUANTITIES TABLE			
Phase Number(s)	PHASE 1	PHASE 2	PHASE 3
Number of Lot(s)			
Lot Number(s) by Phase			
Number of Units			
Liveable Buildings			
Open Space?			
Number of Open Space Lots			
Public Water (LF)	3,899 LF		
Private Water* (LF)			
Public Sewer (LF)	114 LF		
Public Force Main (LF)			
Private Sewer** (LF)			
Public Street (LF) - FULL			
Public Street (LF) - PARTIAL			
Public Sidewalk (LF) - FULL			
Public Sidewalk (LF) - PARTIAL			
Multi-Use Path*** (LF)			
Public Stormdrain (LF)			
Street Signs (LF)			
Water Service Stubs			
Sewer Service Stubs			
Average Daily Flow per Phase****	N/A		

*Water mains 4" and larger.
**Sewer mains and manholes as part of a collection system.
***10 or 12 ft wide path in lieu of sidewalk or a multi-use path as part of a development amenity.
****Entire Project Flow, Based on 75gpd per bedroom for residential (apartments, single family dwelling, townhouse, condos), or based on 15A NCAC 02T .0114 Wastewater Design Flow Rates for Commercial and Industrial.

THERE IS NO CONTROL OF ACCESS ON THIS PROJECT.
THE PROJECT IS PARTIALLY LOCATED WITHIN THE MUNICIPAL LIMITS OF THE TOWN OF GARNER.
CLEARING ON THIS PROJECT WILL BE PERFORMED TO THE LIMITS ESTABLISHED BY NCDOT METHOD II.



SHEET NO.:	DESCRIPTION:
UC-1	TITLE SHEET
UC-2	LEGEND OF SYMBOLS
UC-3 THRU UC-3F	GENERAL NOTES & DETAILS
UC-4 THRU UC-10	UTILITY CONST. PLAN SHEETS
UC-11 THRU UC-14	PROFILE SHEETS

**WATER AND SEWER
OWNER ON PROJECT**
(A) WATER: CITY OF RALEIGH
(B) SANITARY SEWER: CITY OF RALEIGH

PREPARED IN THE OFFICE OF:
AECOM
AECOM TECHNICAL SERVICES OF NORTH CAROLINA, INC.
5438 WADE PARK BLVD, SUITE 200, RALEIGH, NC 27607
919-461-1100
F - 0342
Catherine R. Cangemi, PE UTILITIES PROJECT ENGINEER

SEAL
NORTH CAROLINA
PROFESSIONAL
SEAL
058684
ENGINEER
CATHERINE R. CANGEMI
Signed by: *Catherine R. Cangemi* 1/19/2026
7B8026F6E6A6415

**DIVISION OF HIGHWAYS
DIVISION 5
PROJECT DEVELOPMENT UNIT**
2612 N. DUKE STREET
DURHAM, NC 27704
PHONE (919) 317-4700
FAX (919) 317-4710
Susan Lancaster, PE TEAM LEAD
John Braxton PROJECT MANAGER
Donald W. Proper DIVISION UTILITIES ENGINEER
James E. Swinson SENIOR UTILITIES ENGINEER

NOTE: ALL 6", 8", 10", AND 12" WATER LINES SHALL BE
PC350 DUCTILE IRON, TYPICAL ALL SHEETS

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

★ PROPOSED SIGNAL

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PROJECT REFERENCE NO.	SHEET NO.
U-5302	UC-2

UTILITIES PLAN SHEET SYMBOLS

PROPOSED WATER SYMBOLS

Water Line (Sized as Shown)	12" 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	PSTW
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)	12" SS
Force Main Sewer Line (Sized as Shown)	12" FSS
Manhole (Sized per Note)	
Sewer Pump Station	PSTSS

PROPOSED MISCELLANOUS UTILITIES SYMBOLS

Power Pole	
Telephone Pole	
Joint Use Pole	
Telephone Pedestal	TEL PED
Utility Line by Others (Type as Shown)	PROP O/H POW LINES
Trenchless Installation	12" TL INSTALL
Encasement by Open Cut	24" ENCAS BY OC
Encasement	24" ENCASEMENT

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

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	P
*Underground Telephone Cable	T
*Underground Telephone Conduit	TC
*Underground Fiber Optics Telephone Cable	T FO
*Underground TV Cable	TV
*Underground Fiber Optics TV Cable	TV FO
*Underground Gas Pipeline	G
Aboveground Gas Pipeline	A/G Gas
*Underground Water Line	W
Aboveground Water Line	A/G Water
*Underground Gravity Sanitary Sewer Line	SS
Aboveground Gravity Sanitary Sewer Line	A/G Sanitary Sewer
*Underground SS Forced Main Line	FSS
Underground Unknown Utility Line	?UTL
SUE Test Hole	
Water Meter	
Water Valve	
Fire Hydrant	
Sanitary Sewer Cleanout	

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

Prepared in the Office of:

AECOM

AECOM TECHNICAL SERVICES OF NORTH CAROLINA, INC.
5438 WADE PARK BLVD, SUITE 200, RALEIGH, NC 27607
919-461-1100
F - 0342

PROJECT REFERENCE NO.
U-5302

SHEET NO.
UC-3A

DESIGNED BY:

DRAWN BY: ZS

CHECKED BY:

APPROVED BY: SDS

REVISED: CRC

NORTH CAROLINA
DEPARTMENT OF
TRANSPORTATION

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

SEAL
058684
Catherine R. Canham
Professional Engineer

Signed Off: Catherine R. Canham
1/19/2026

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

UTILITY CONSTRUCTION

CONSTRUCTION SEQUENCE

WL-4 (CONT.)

4. AFTER ALL SERVICES HAVE BEEN TRANSFERRED, CONNECT NEW MAIN TO EXISTING MAIN AS SHOWN ON SHEET UC-6. USE EXISTING SYSTEM VALVES, PROPOSED INSERTION VALVES, PROPOSED MAIN VALVES, AND / OR LINE STOPS TO ISOLATE WATER LINE OUTAGE. ALL NECESSARY PREPARATIONS SHOULD BE MADE TO MINIMIZE THE DURATION OF ANY WATERLINE OUTAGES, AND COORDINATION WITH THE UTILITY PROVIDER IS REQUIRED FOR ALL PLANNED DISRUPTIONS.

5. ABANDONED WATER MAINS SHALL BE DRAINED OF RESIDUAL WATER, FILLED WITH FLOWABLE FILL, AND PLUGGED AT EACH END OF THE ABANDONMENT.

WL-5

1. CLOSE EXISTING 12-IN VALVE NO. EV5 (ON SHEET UC-7), LOCATED IN INTERSECTION OF US-401 AND PINEWINDS DRIVE. PLACE A 12-INCH LINES TOP IN MAIN ON PURSER DRIVE AS SHOWN ON SHEET UC-7.

2. CONNECT NEW MAINS TO EXISTING MAINS AS SHOWN ON SHEETS UC-6, AND UC-7.

3. RECONNECT ANY RELOCATED WATER METERS TO EXISTING SERVICE LINES.

WL-6

1. CLOSE THE INSERT VALVE LOCATED AT APPROXIMATE STATION 43+88 OF WL-1. CLOSE THE INSERT VALVE THAT WILL BE INSTALLED AT APPROXIMATE STATION 48+55. CLOSE THE EXISTING 6-IN VALVE EV7 (ON SHEET UC-8). PLACE A 6-INCH LINES TOP IN MAIN ON WINTERLOCHEN ROAD.

2. CONNECT NEW MAIN TO EXISTING MAINS AS SHOWN ON SHEET UC-8.

3. RECONNECT ANY RELOCATED WATER METERS TO EXISTING SERVICE LINES.

WL-7

1. CLOSE THE INSERT VALVES THAT WILL BE INSTALLED AT APPROXIMATE STATIONS 48+55 AND 51+28. CLOSE EXISTING 12-IN VALVE NO. EV8 (ON SHEET UC-8), LOCATED IN THE 20' SEWER EASEMENT SOUTH OF THE DENNY'S.

2. CONNECT NEW MAIN TO EXISTING MAINS AS SHOWN ON SHEET UC-8.

WL-8 (NOT REPRESENTED ON PROFILE SHEET)

1. CLOSE EXISTING 6-IN VALVE NO. EV7 ON WL-8. CLOSE EXISTING 6-IN VALVE NO. EV9 (ON SHEET UC-8), LOCATED JUST SOUTH OF DISCOUNT TIRE.

2. CONNECT NEW MAIN TO EXISTING MAIN AS SHOWN ON SHEET UC-8.

WL-8A (NOT REPRESENTED ON PROFILE SHEET)

1. CLOSE EXISTING 10-IN VALVE NO. EV12 (ON SHEET UC-8) LOCATED JUST NORTH OF ENTRANCE TO THE SHOPPES AT GARNER IN THE OUTBOUND LANE. INSERT 10-IN LINES TOP NORTH OF CONNECTION POINT AS SHOWN ON PLANS.

2. CONNECT NEW MAIN TO EXISTING MAIN AS SHOWN ON SHEET UC-8.

WL-9 (NOT REPRESENTED ON PROFILE SHEET)

1. CLOSE THE INSERT VALVES THAT WILL BE INSTALLED AT APPROXIMATE STATIONS 48+55 AND 51+28.

2. CONNECT NEW MAIN TO EXISTING MAIN AS SHOWN ON SHEET UC-8.

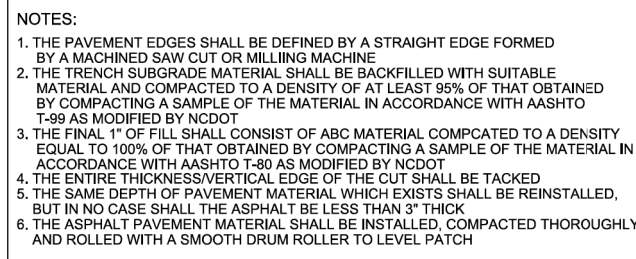
WL-10

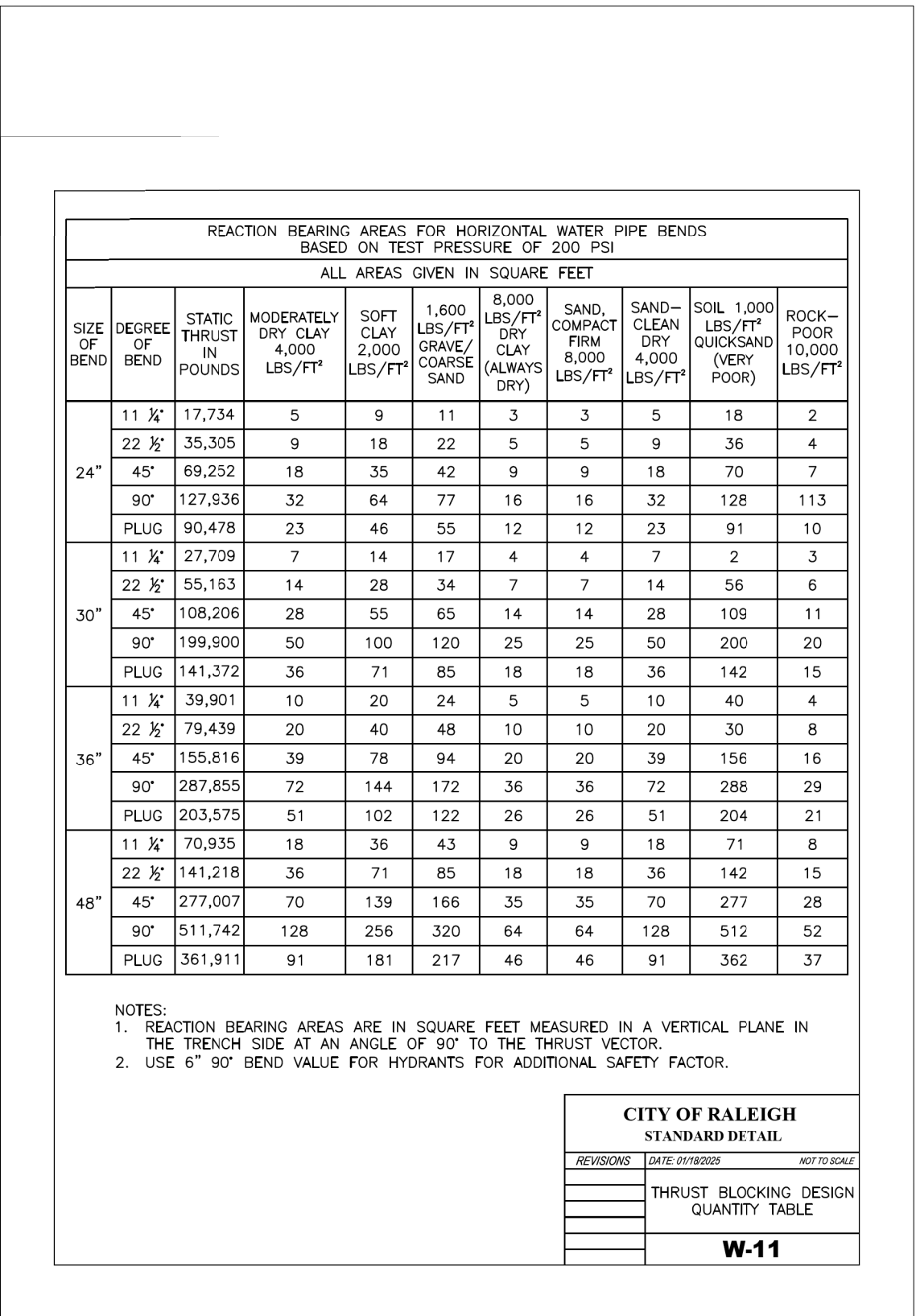
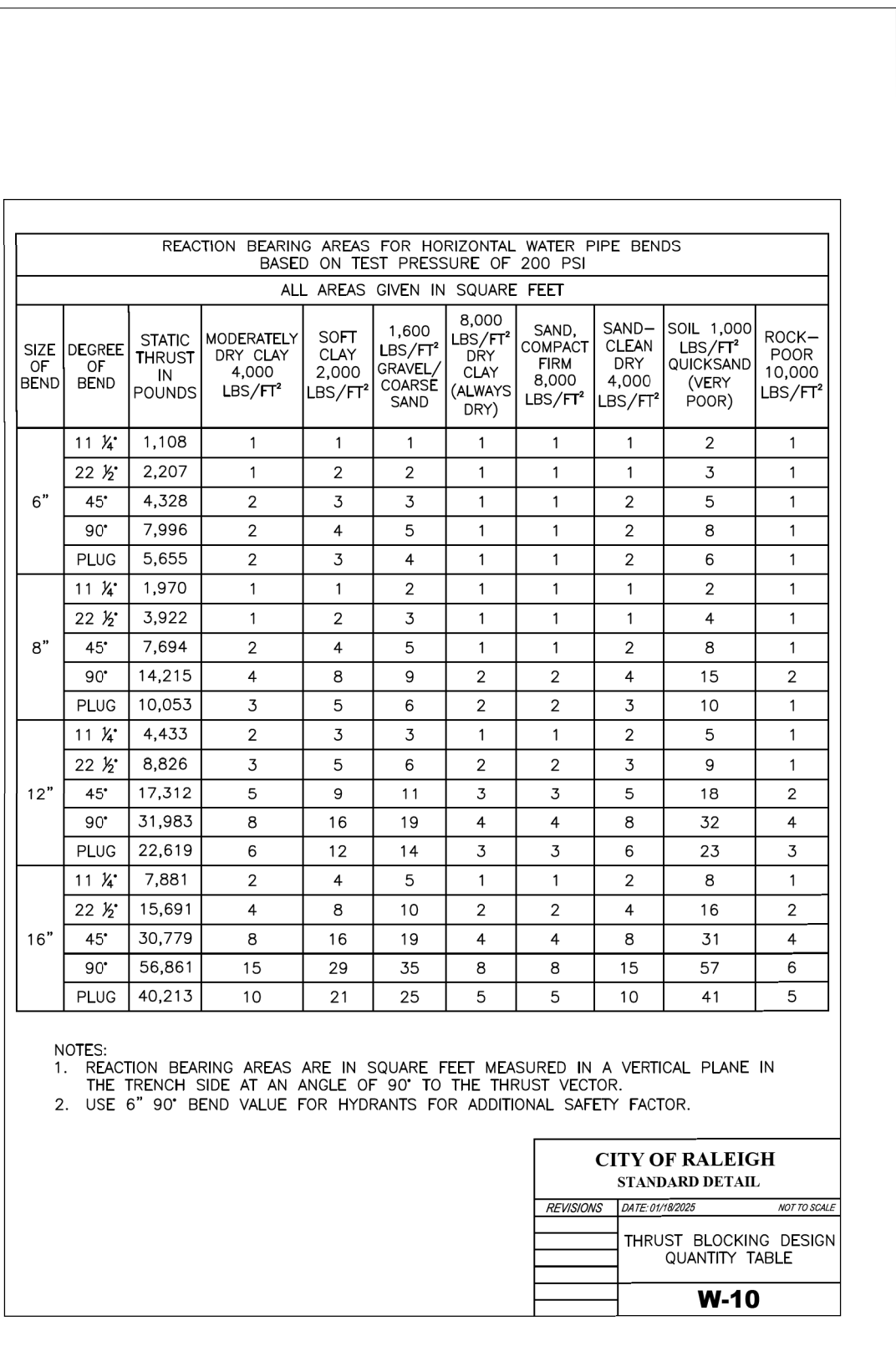
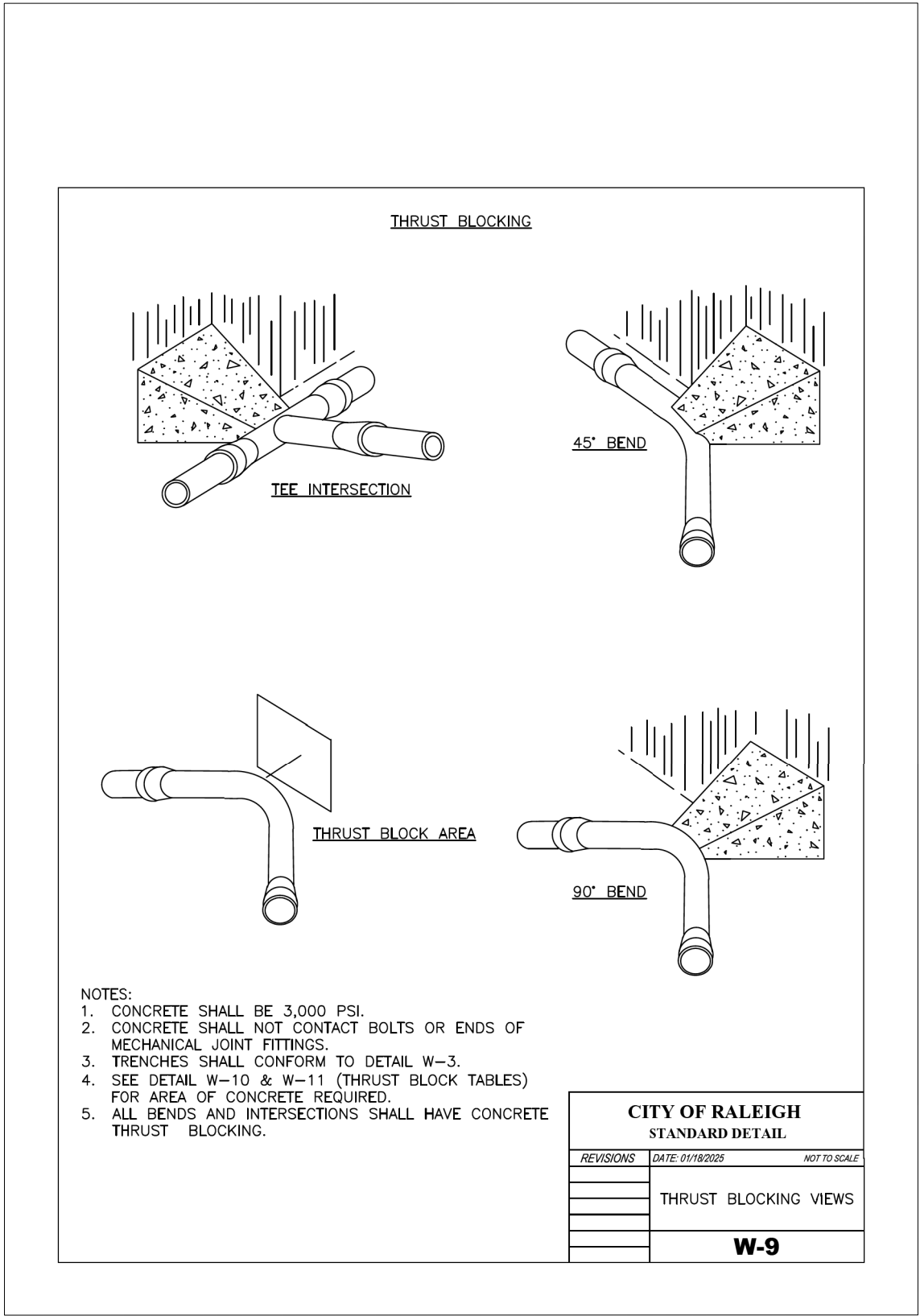
1. ENSURE EXISTING 12-IN MAIN LINE VALVE IS CLOSED AND REMOVE BLOWOFF. BEGIN INSTALLING NEW WATER MAIN.

2. AFTER INSTALLATION, FLUSH, TEST, CHLORINATE, AND SAMPLE WATER MAIN AS REQUIRED.

3. AFTER THE WATER MAIN HAS BEEN APPROVED TO PLACE INTO OPERATION, OPEN THE EXISTING 12-IN MAIN LINE VALVE.

STANDARD DETAIL		
REVISIONS	DATE: 8/20/00	NOT TO SCALE
DATE: 9/8/2003	ASPHALT PAVEMENT PATCH AND RCP PIPE BACKFILL	





Prepared in the Office of:

AECOM

AECOM TECHNICAL SERVICES OF NORTH CAROLINA, INC.
5438 WADE PARK BLVD, SUITE 200, RALEIGH, NC 27607
919-461-1100
F - 0342

PROJECT REFERENCE NO. **U-5302**

SHEET NO. **UC-3C**

DESIGNED BY: KKPT

DRAWN BY: ZS

CHECKED BY:

APPROVED BY: SDS

REVISED: CRC

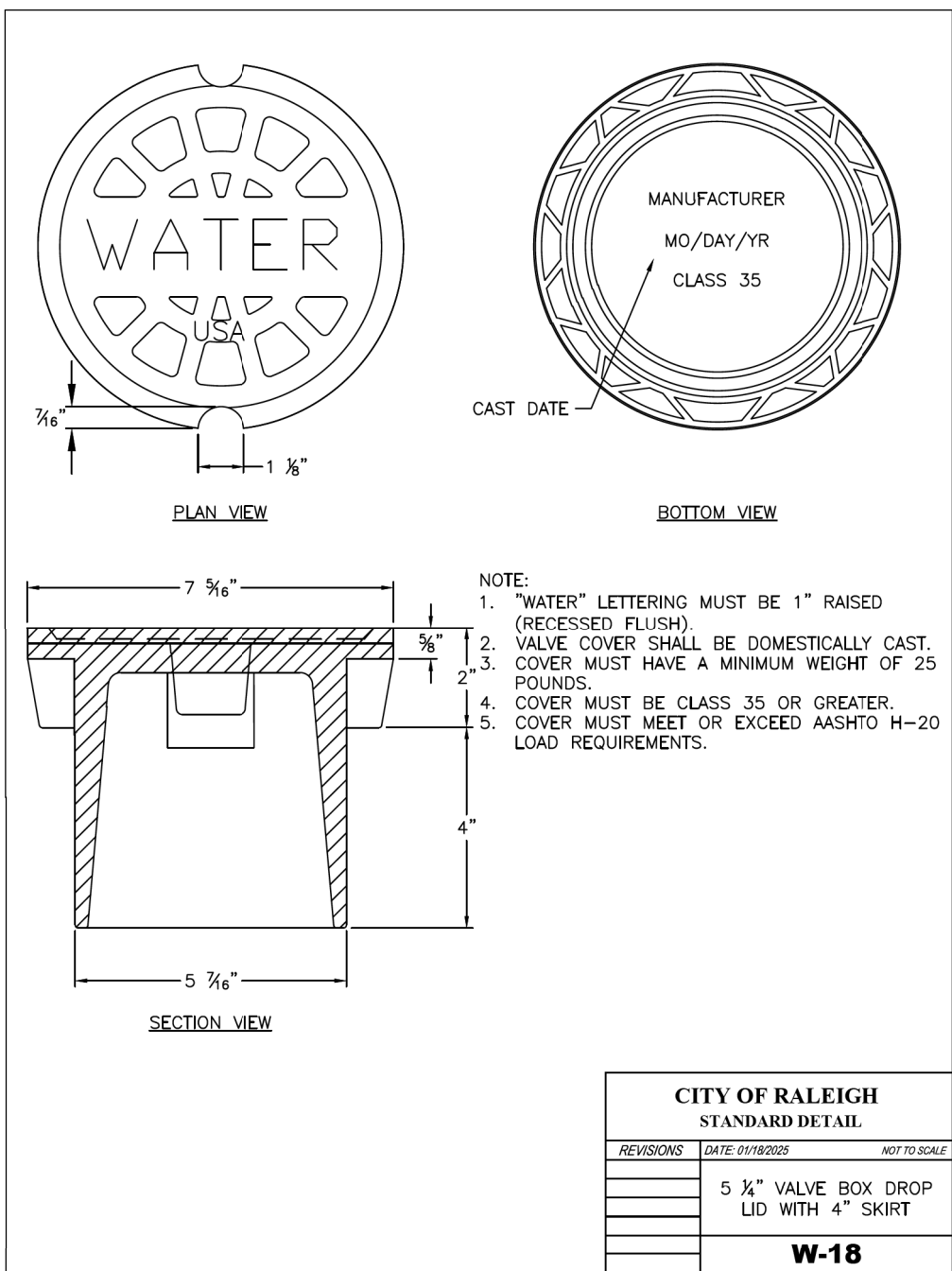
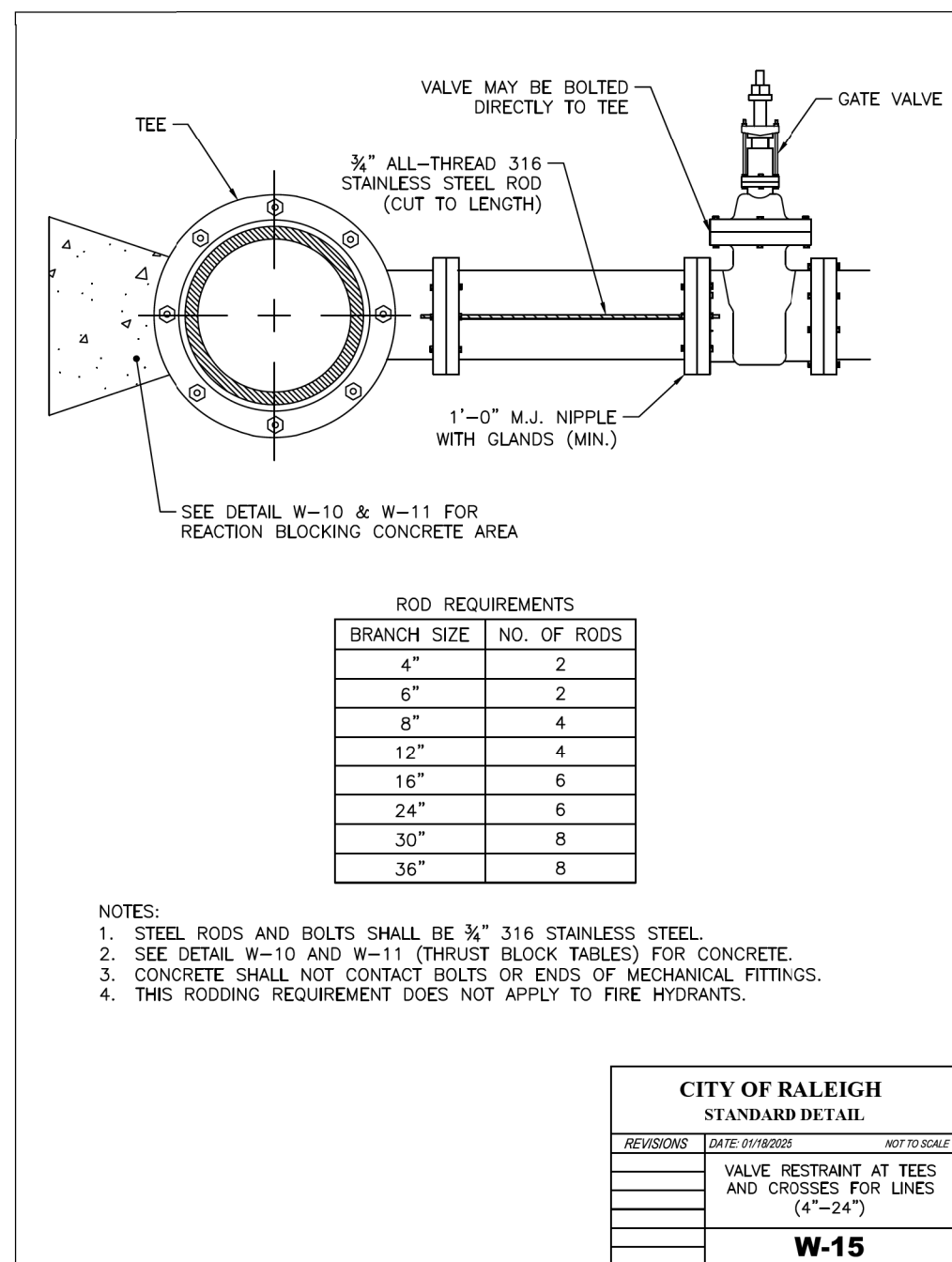
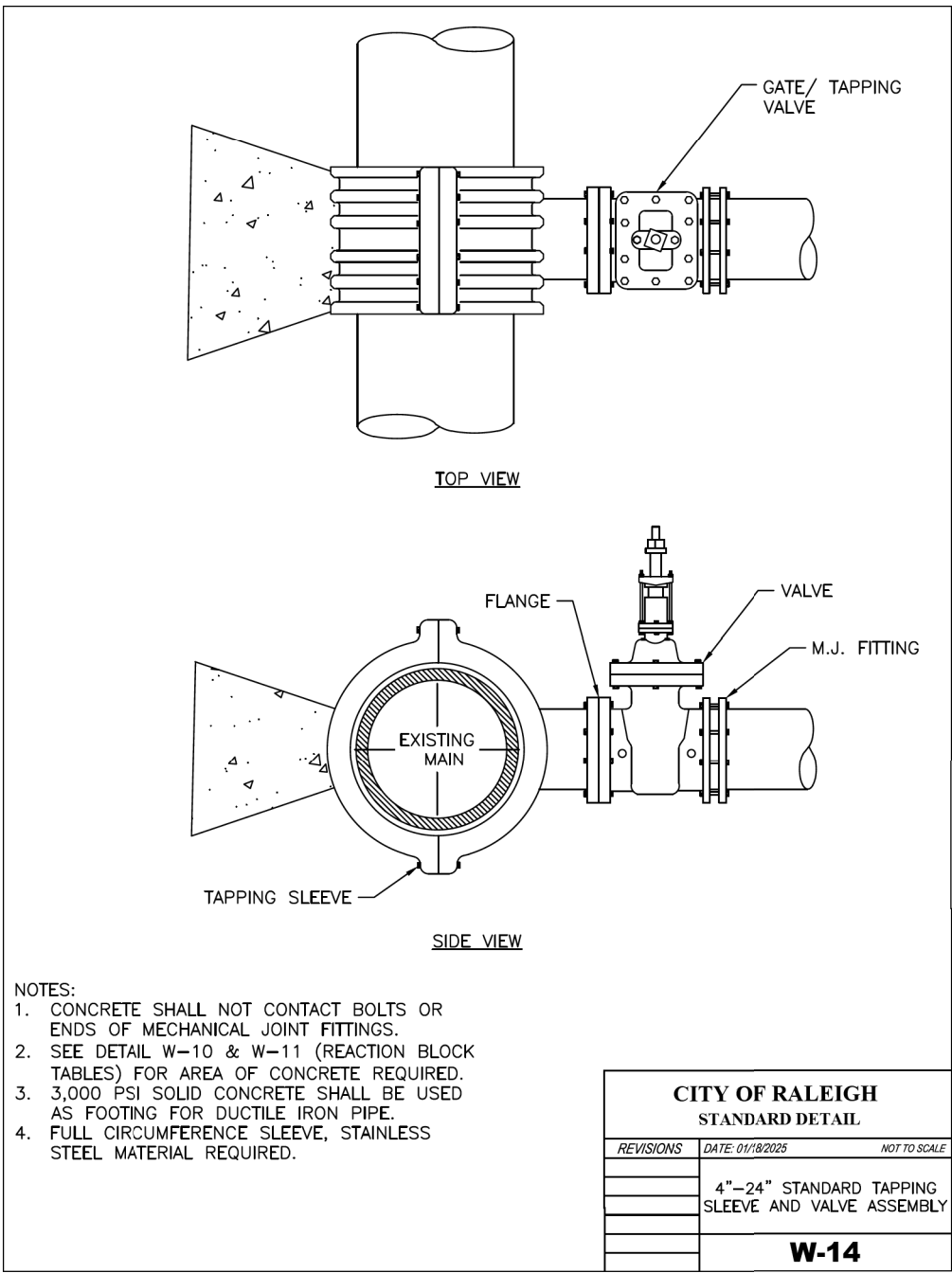
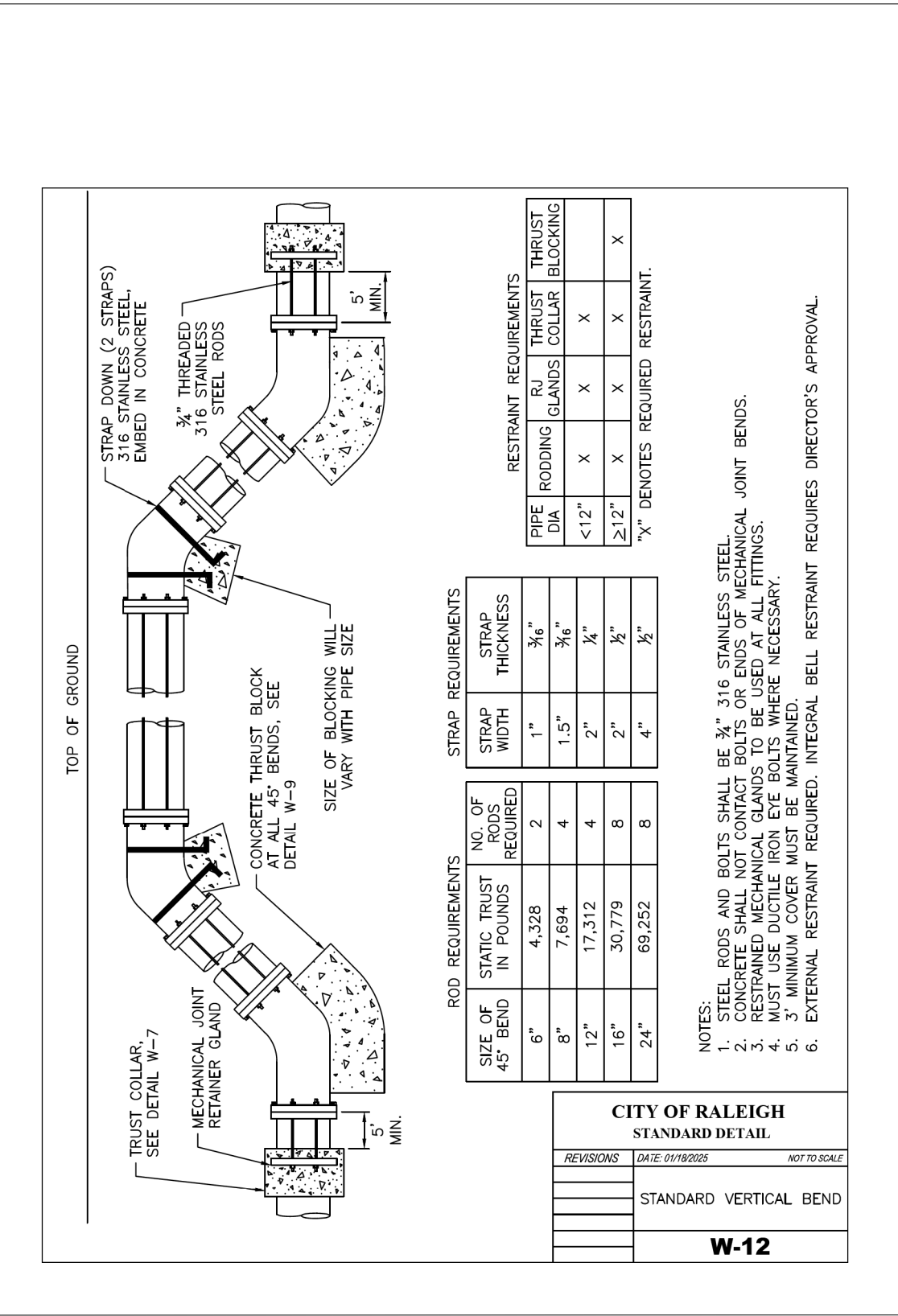
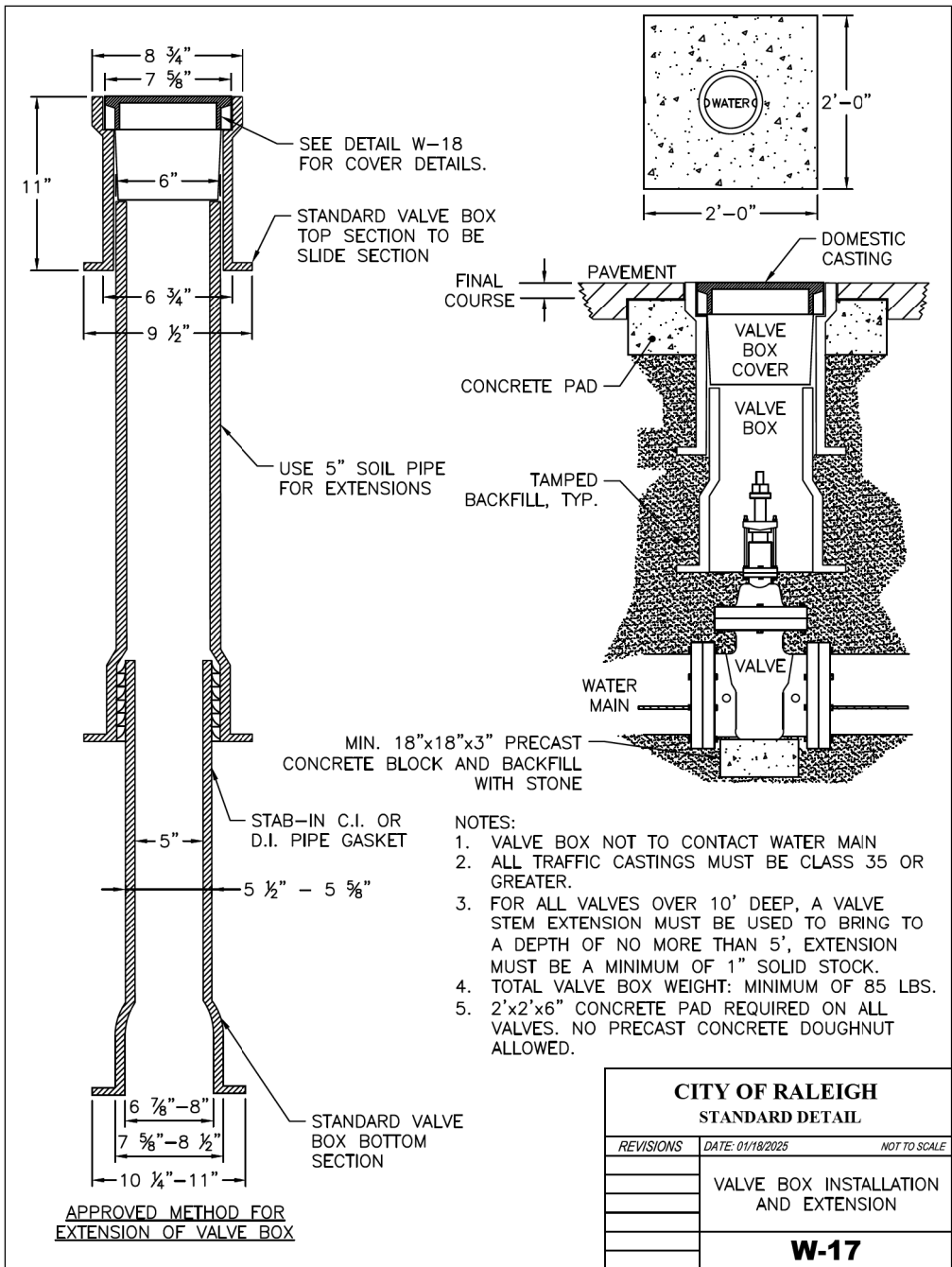
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

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

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Signature: C. R. Carmon
1/19/2026

UTILITY CONSTRUCTION





AECOM TECHNICAL SERVICES OF NORTH CAROLINA, INC.
5438 WADE PARK BLVD, SUITE 200, RALEIGH, NC 27607
919-461-1100 919-461-1415 (fax)
F - 0342

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UNLESS ALL SIGNATURES COMPLETED

PROJECT REFERENCE NO.

U-5302

DESIGNED BY: KKPT

DRAWN BY:

CHECKED BY:

APPROVED BY: SDS

REVISÉ: CBC

NORTH CAROLINA

DEPARTMENT OF
TRANSPORTATIONTRANSPORTATION
UTILITIES ENGINEERING SE

PHONE: (919) 707-6699
FAX: (919) 950-1151

FAX: (919) 250-4151

0.	SHEET NO.
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UC-3D

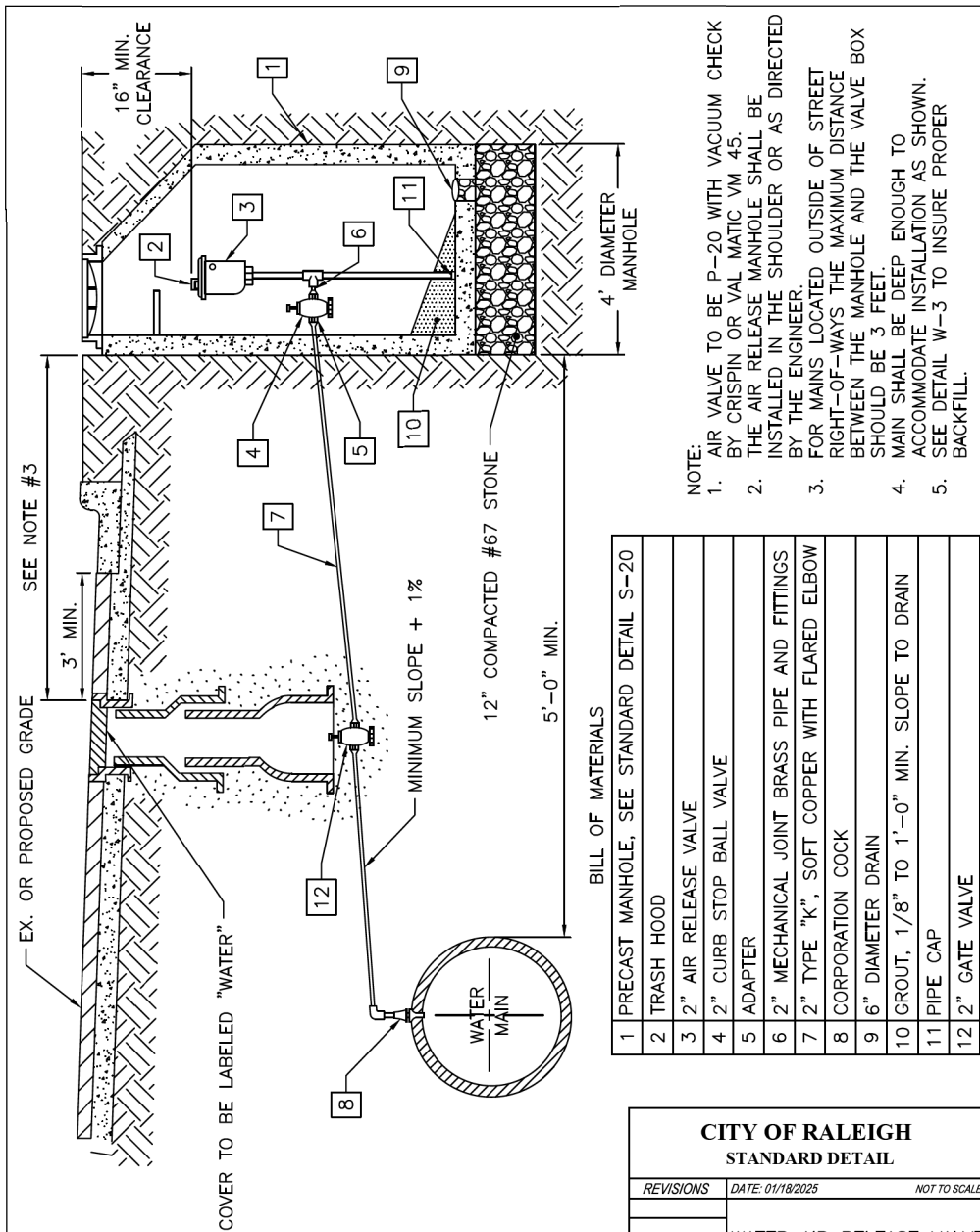


Signed by: _____

Catherine R. Cangiano 1/19/20

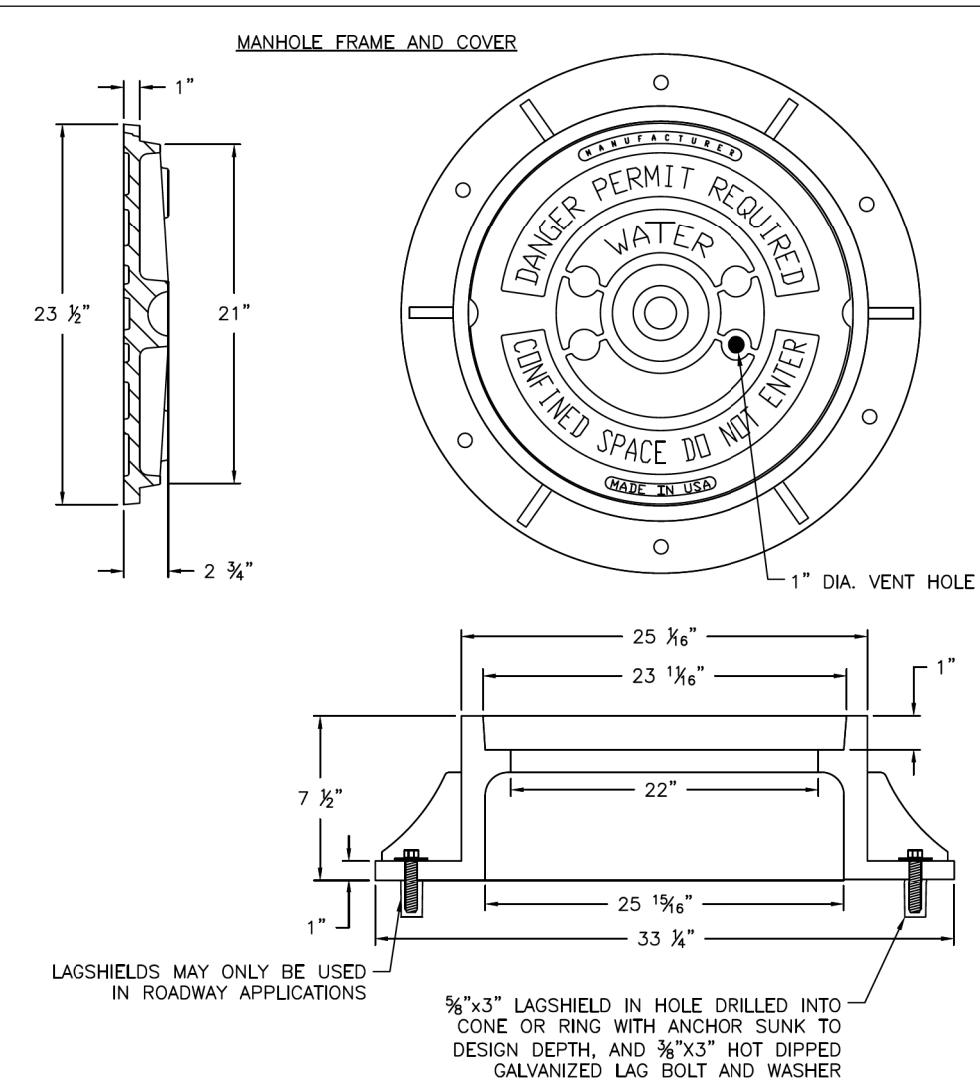
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UTILITY CONSTRUCTION

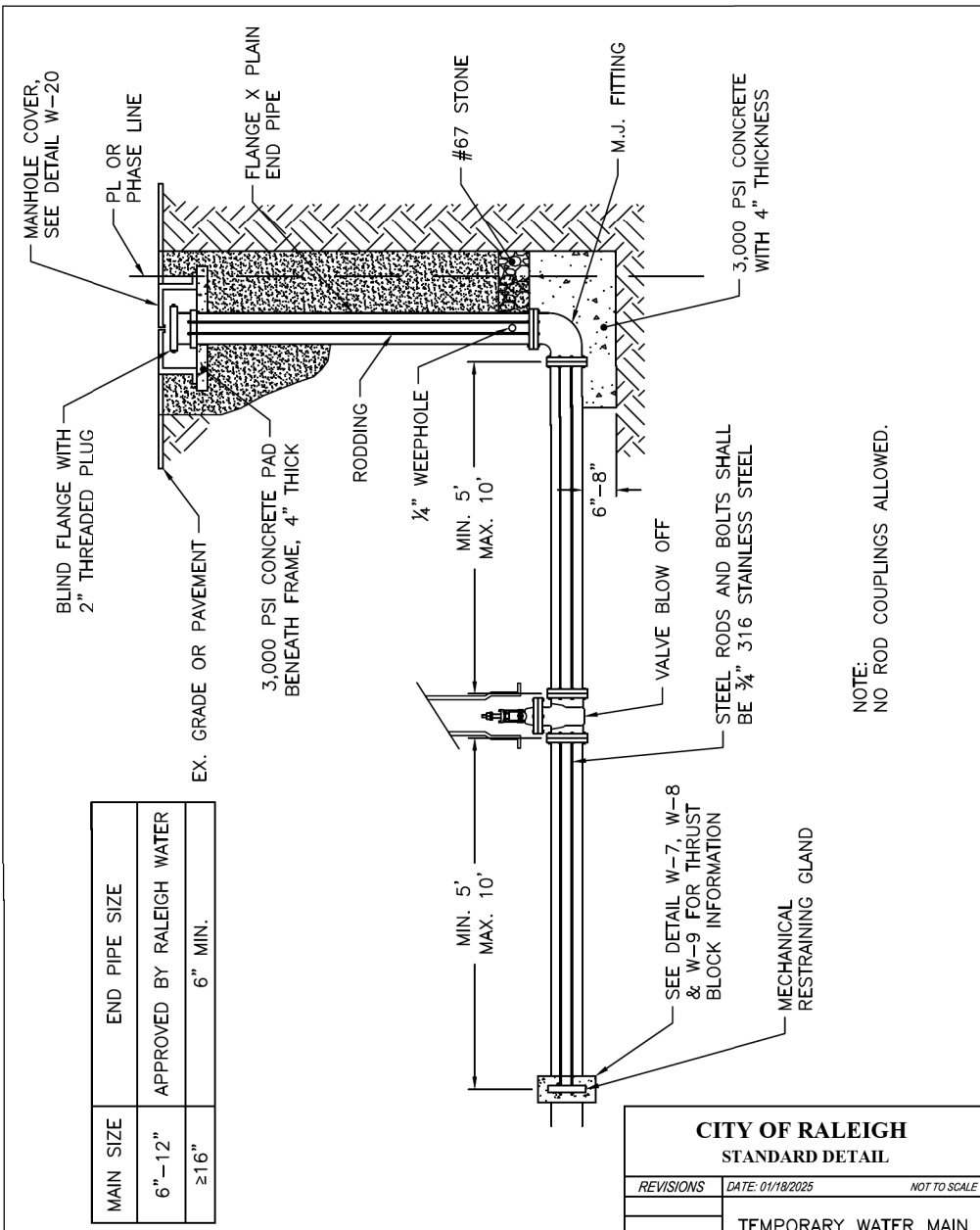


20	1	PRECAST MANHOLE, SEE STANDARD DETAIL S-20
21	1	TRASH HOOD
22	3	3" AIR RELEASE VALVE
23	2	3" CURB STOP BALL VALVE
24	5	ADAPTER
25	6	2" MECHANICAL JOINT BRASS PIPE AND FITTINGS
26	7	2" TYPE "K" SOFT COPPER WITH FLARED ELBOW
27	8	CORPORATION COCK
28	9	6" DIAMETER DRAIN
29	10	GROUT, 1/8" TO 1"-0" MIN. SLOPE TO DRAIN
30	11	PIPE CAP
31	12	2" GATE VALVE

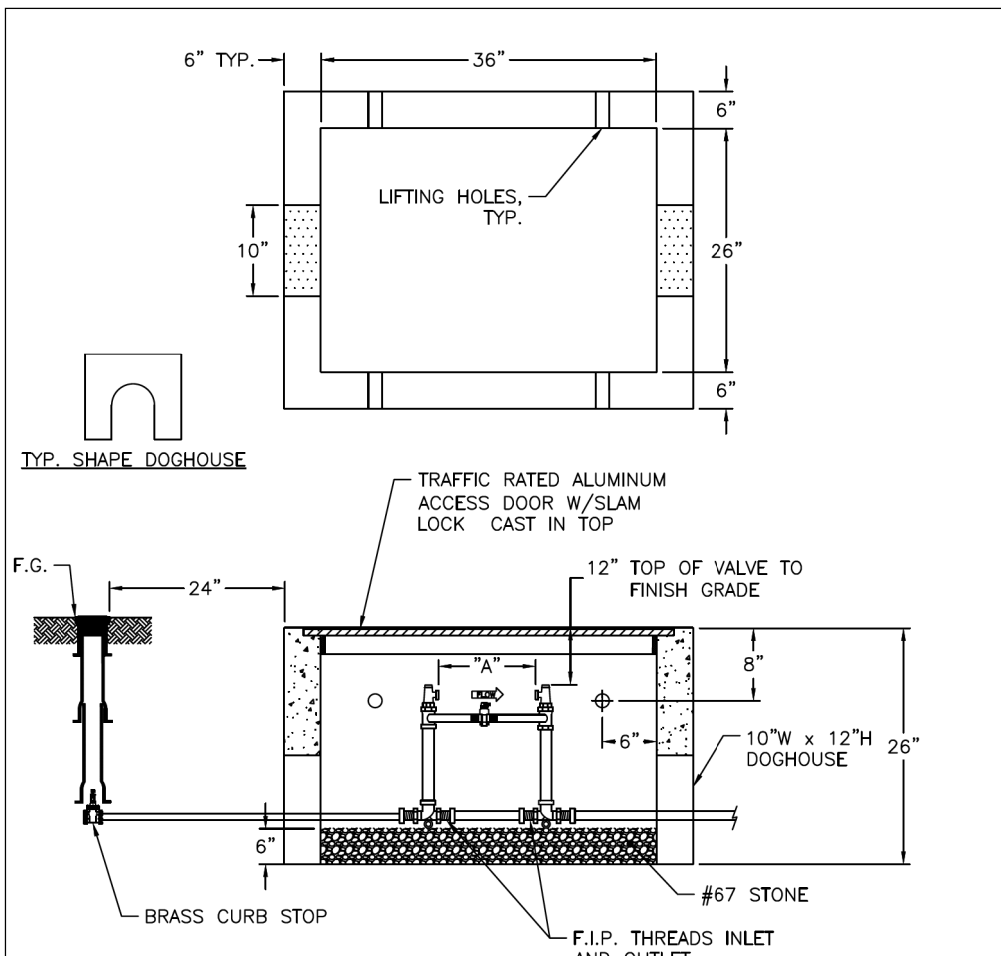
CITY OF RALEIGH		
STANDARD DETAIL		
REVISIONS	DATE: 01/18/2025	NOT TO SCALE
	WATER AIR RELEASE VALVE	
	W-19	



CITY OF RALEIGH		
STANDARD DETAIL		
REVISIONS	DATE: 01/16/2025	NOT TO SCALE
	STANDARD MANHOLE COVER	
W-20		



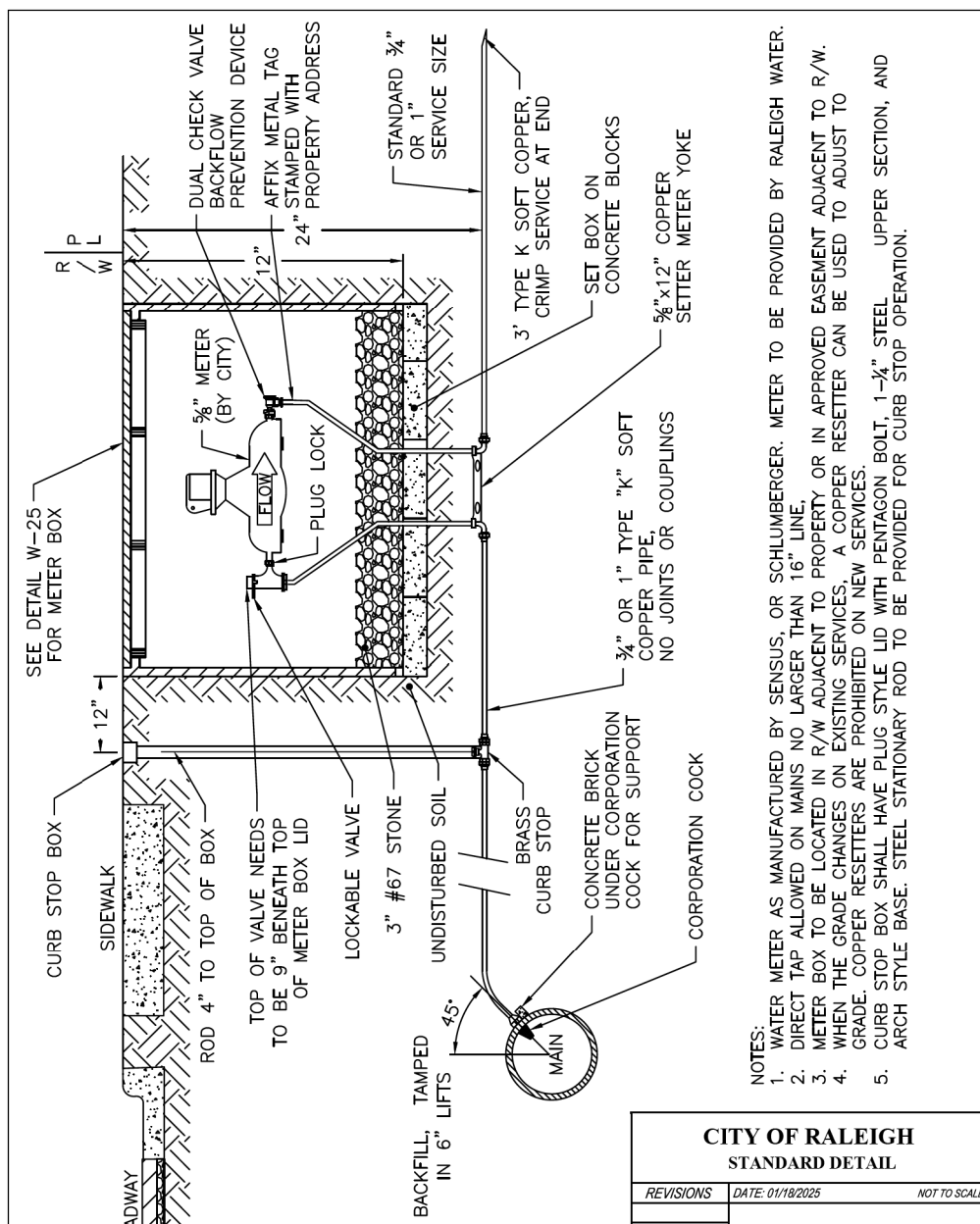
CITY OF RALEIGH		
STANDARD DETAIL		
REVISIONS	DATE: 01/19/2025	NOT TO SCALE
	TEMPORARY WATER MAIN BLOW OFF ASSEMBLY	
	W-21	



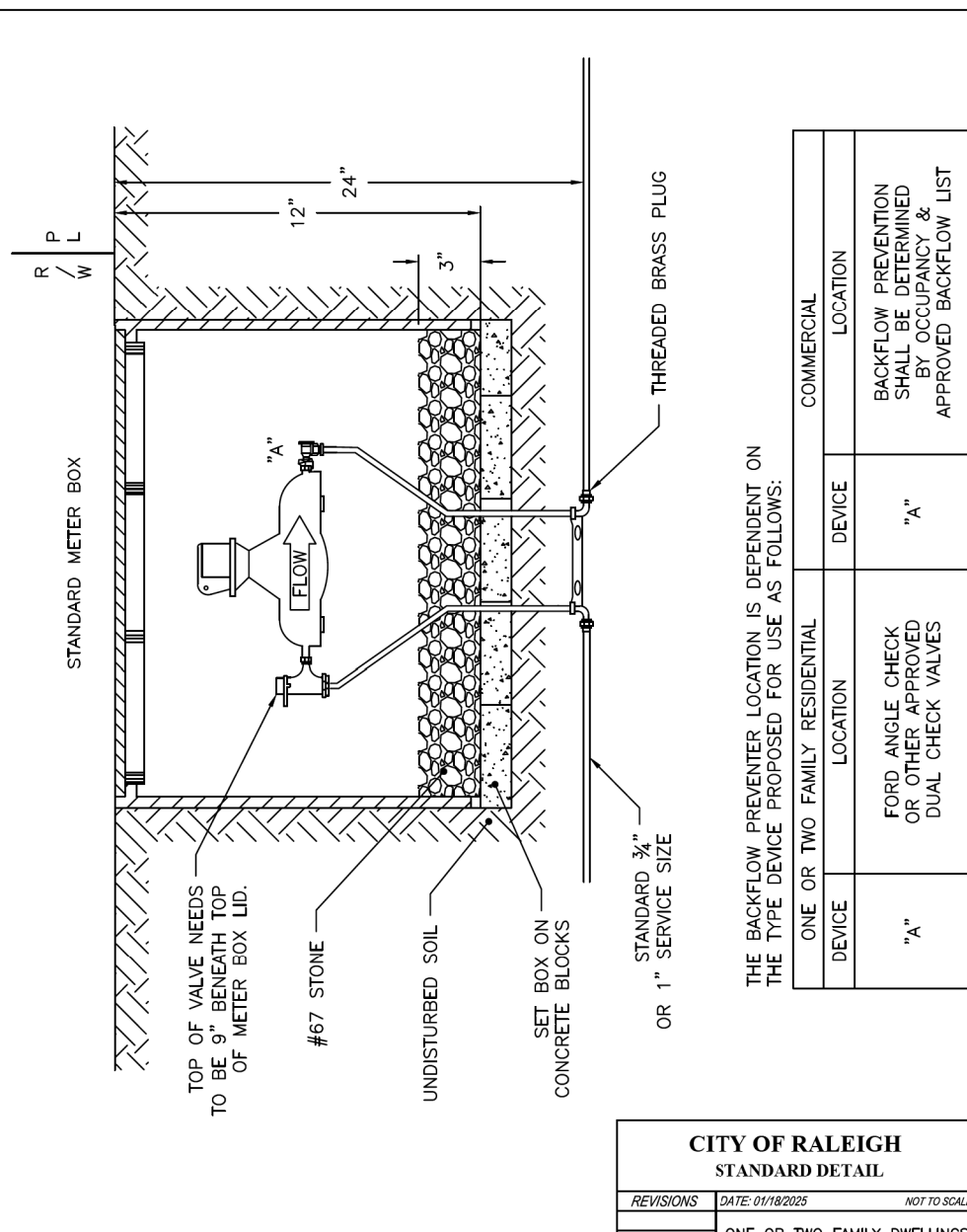
1 ½" METER	13 ¾"
2" METER	17 ¾"

** TRAFFIC RATED
VAULT WALL THICKNESS

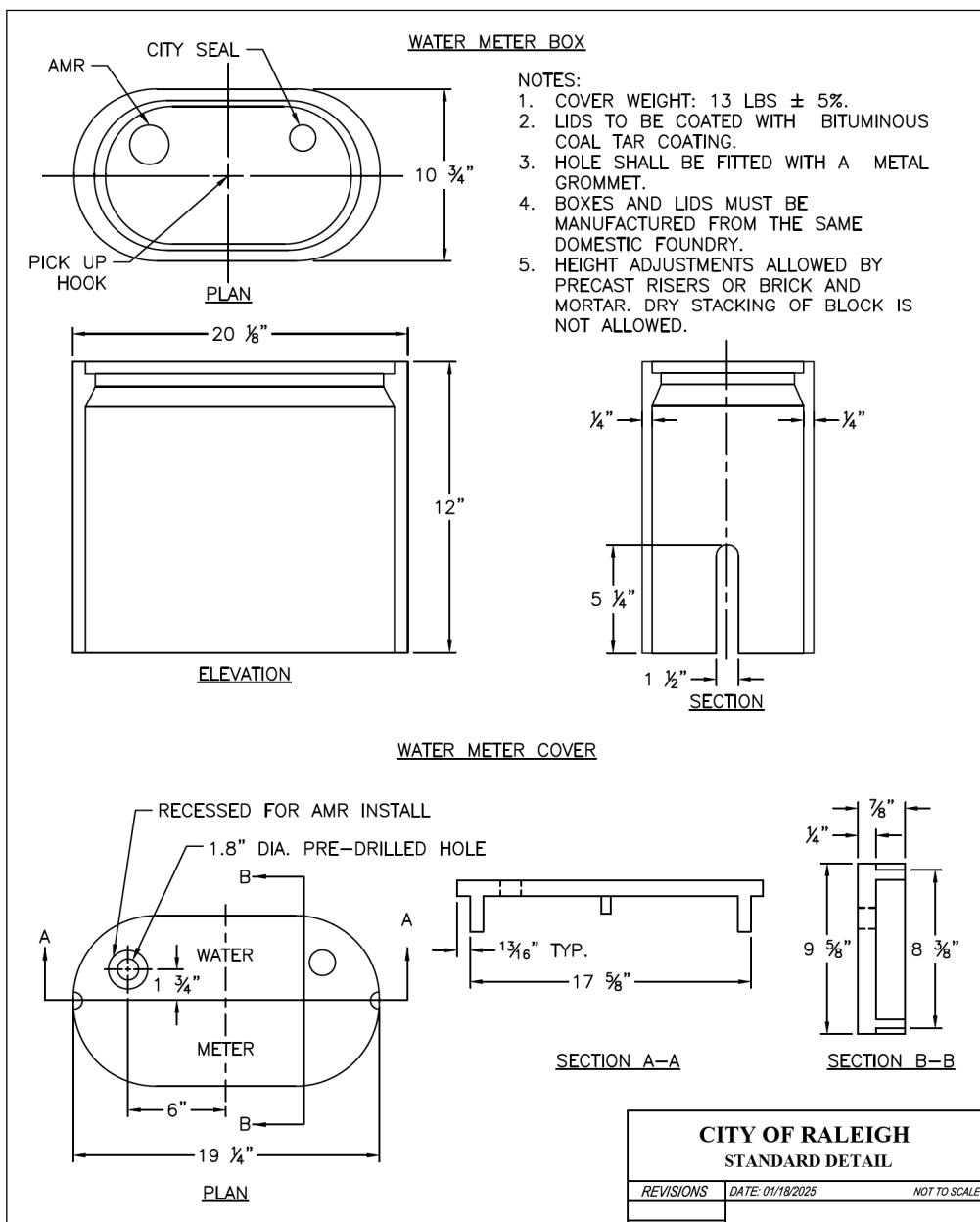
CITY OF RALEIGH STANDARD DETAIL.	
REVISIONS	DATE: 00/00/2025
	NOT TO SCALE
	TYPICAL 1 ½"-2" WATER METER BOX INSTALLATION
	W-31



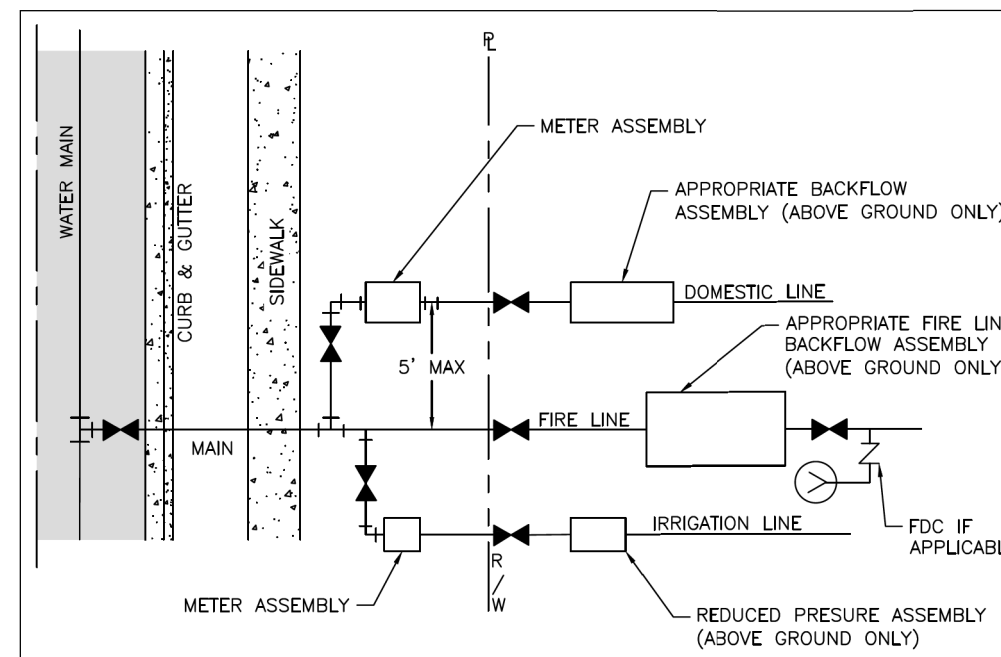
CITY OF RALEIGH		
STANDARD DETAIL		
REVISIONS	DATE: 01/18/2005	NOT TO SCALE
	STANDARD ¾" & 1" WATER SERVICE INSTALLATION	
	W-23	



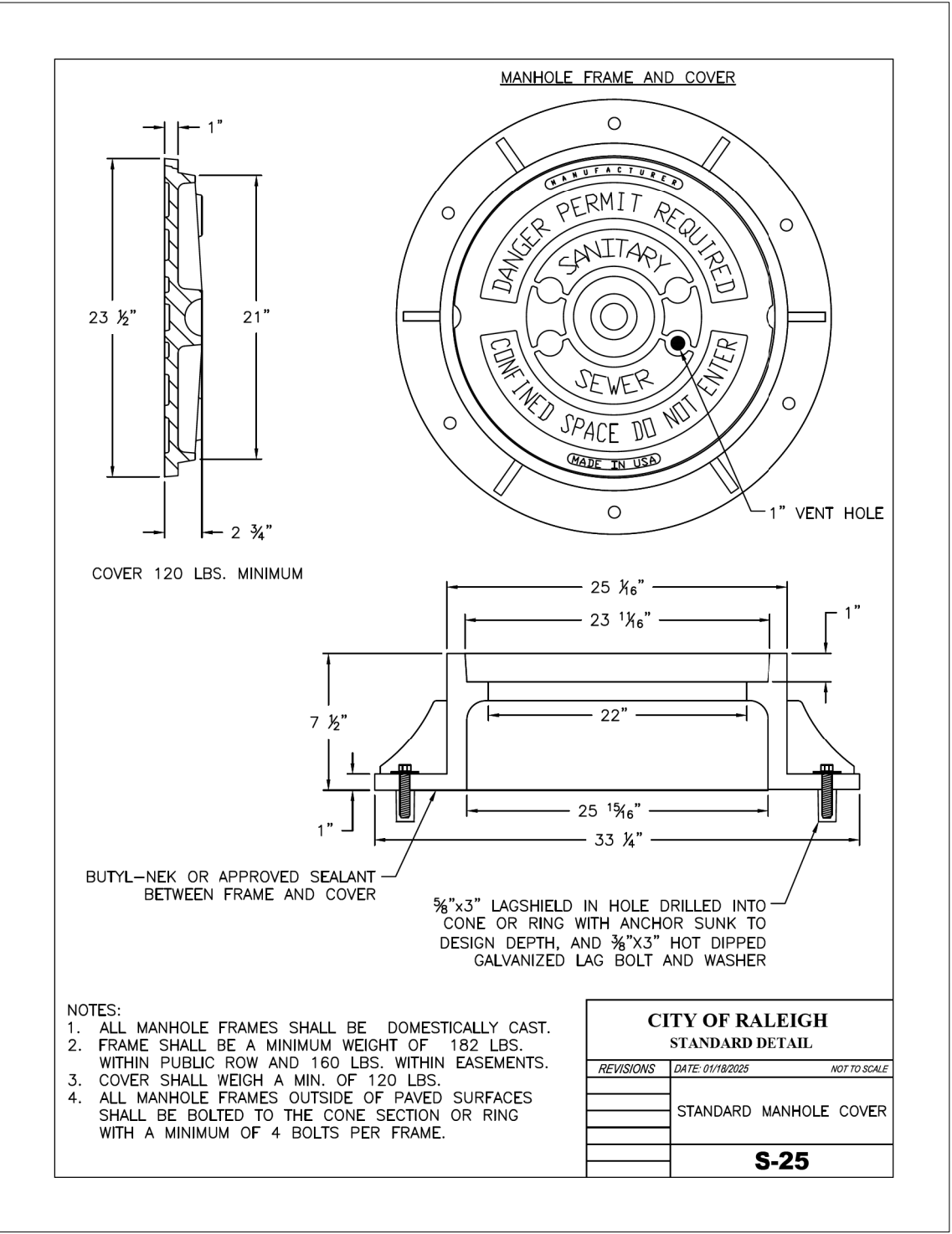
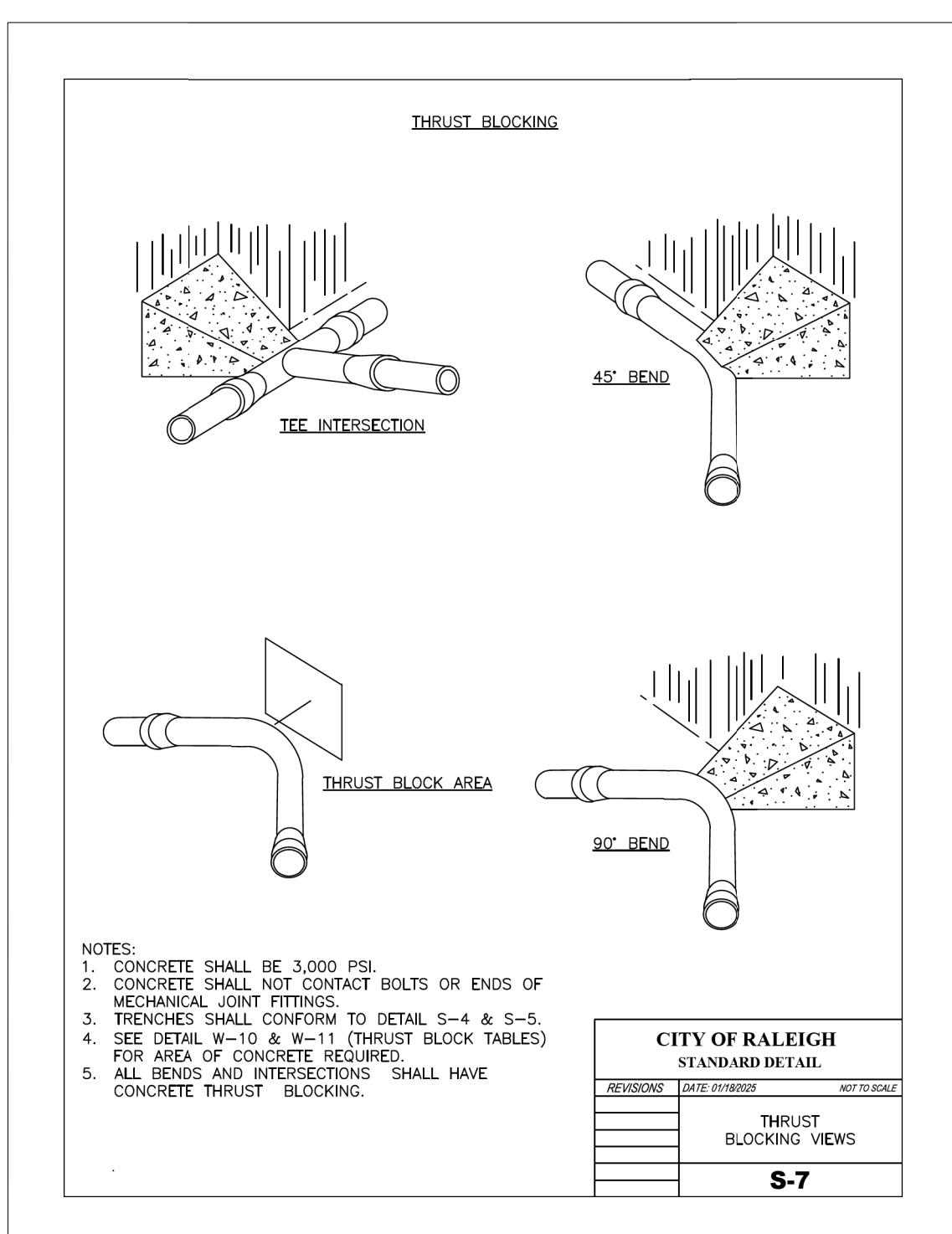
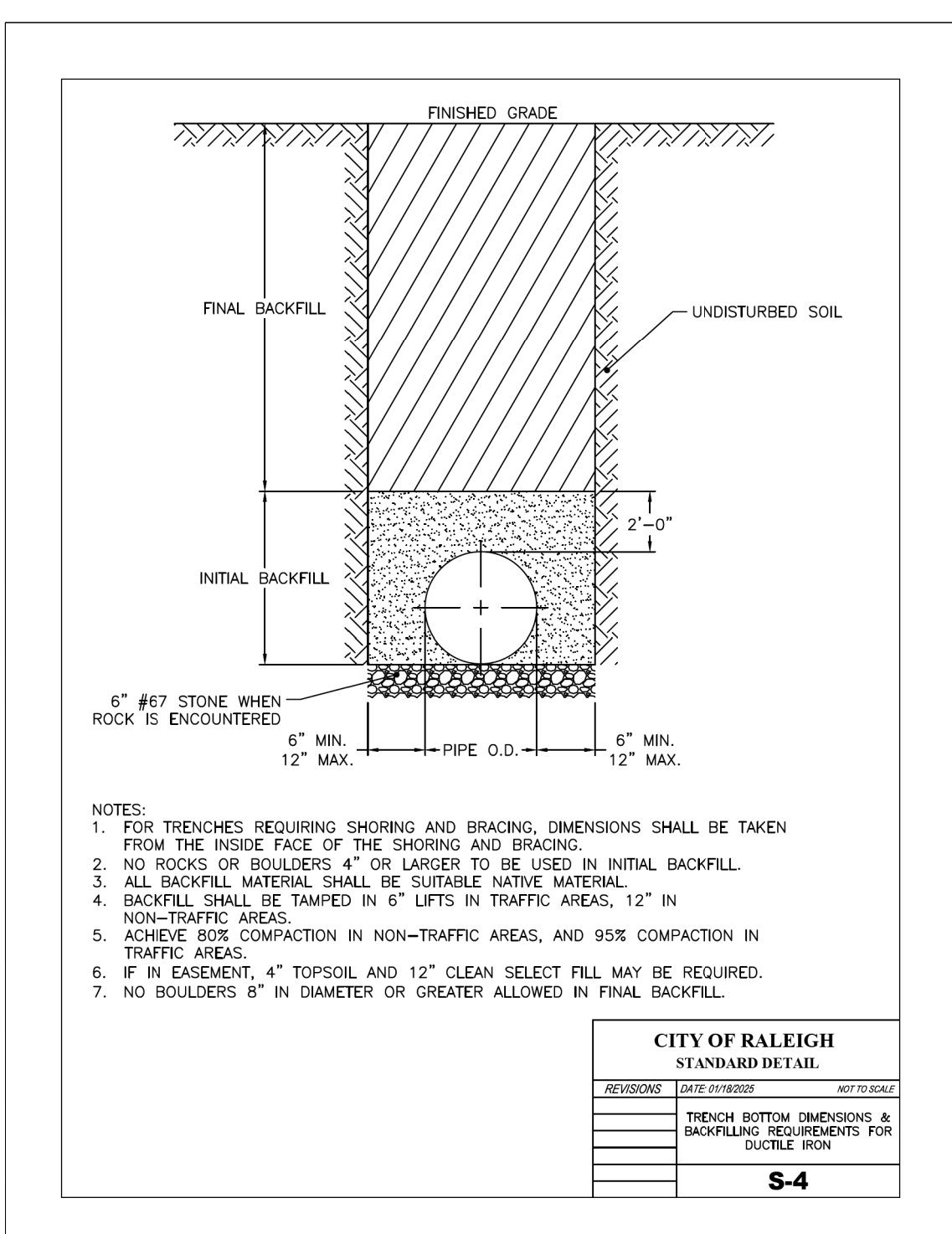
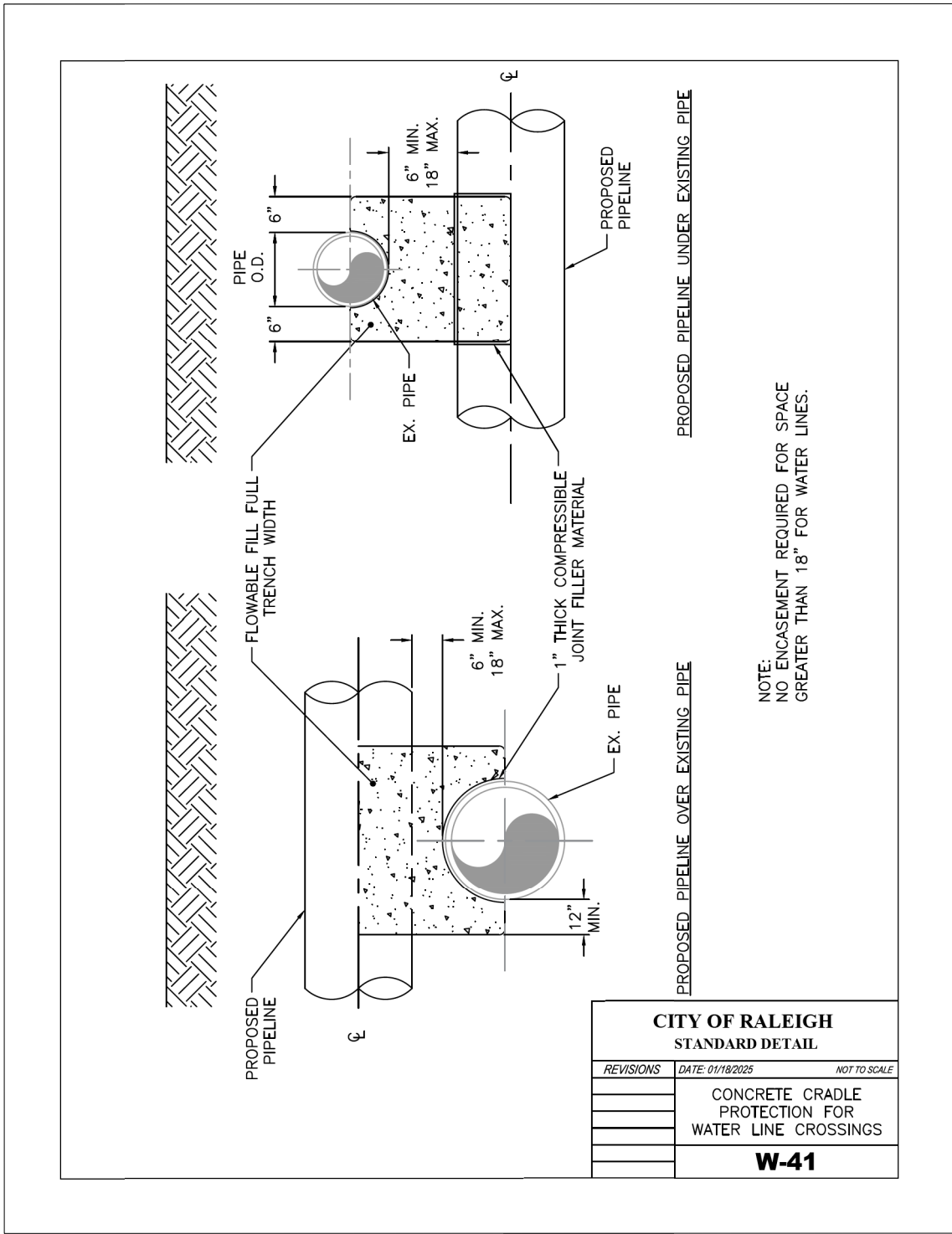
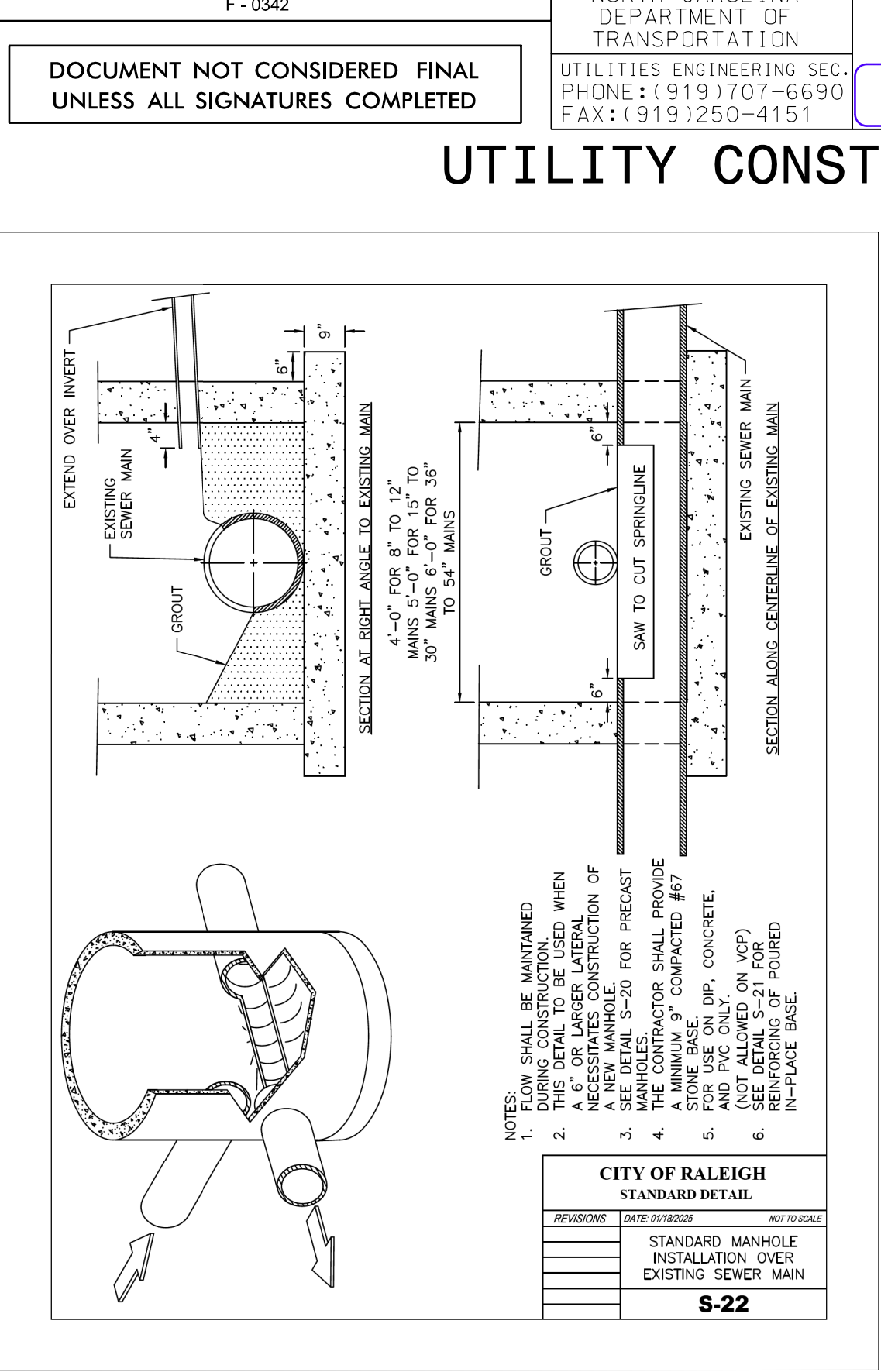
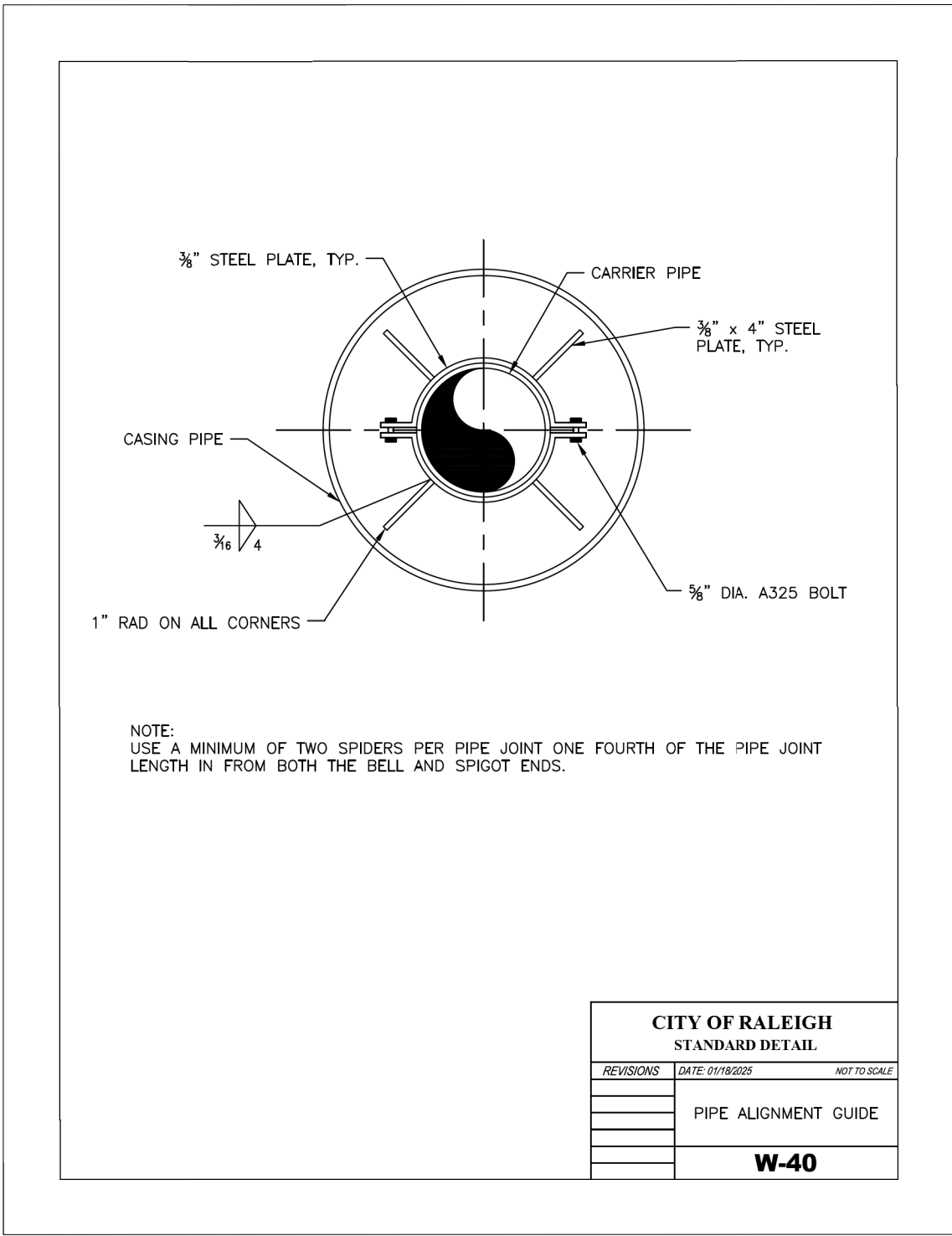
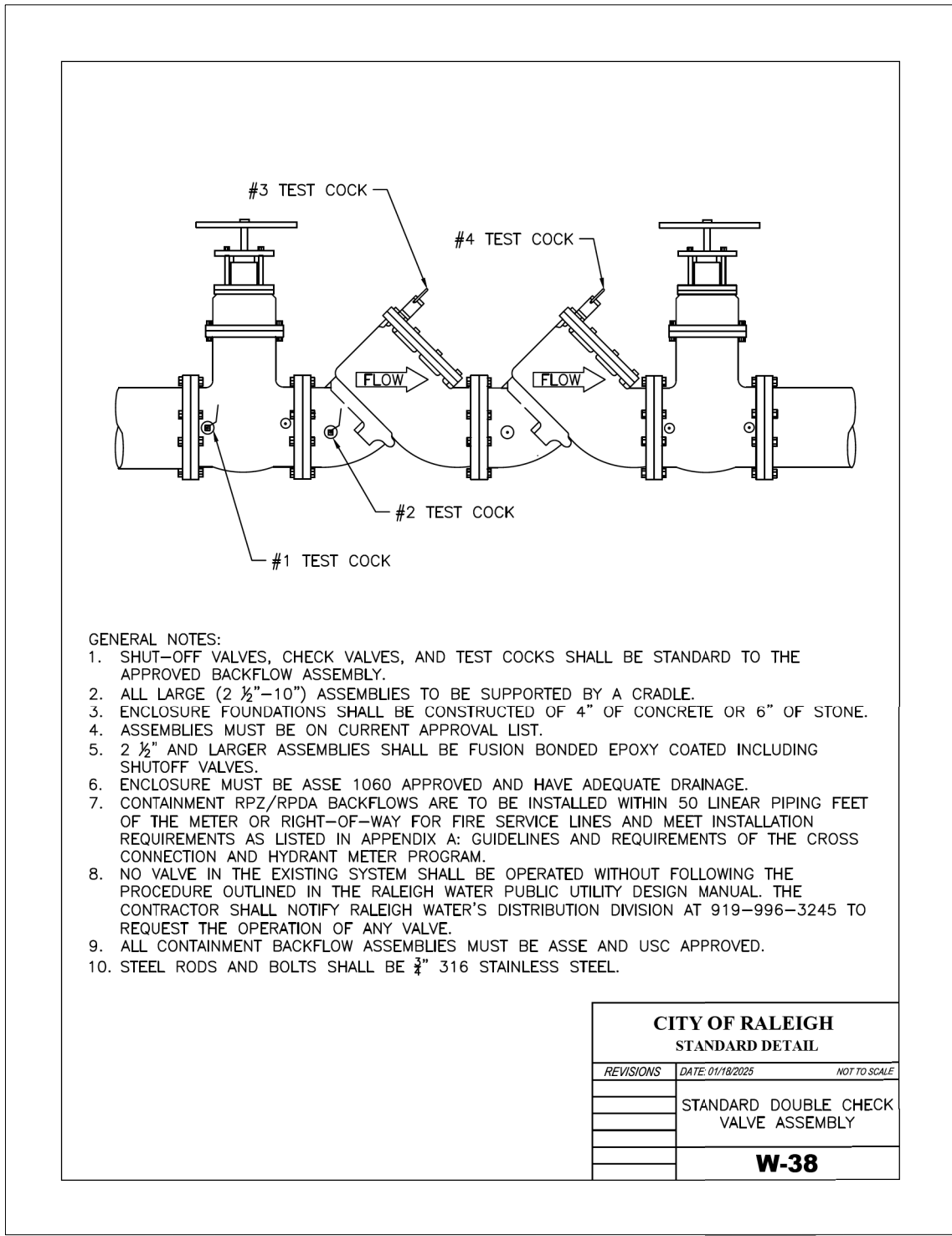
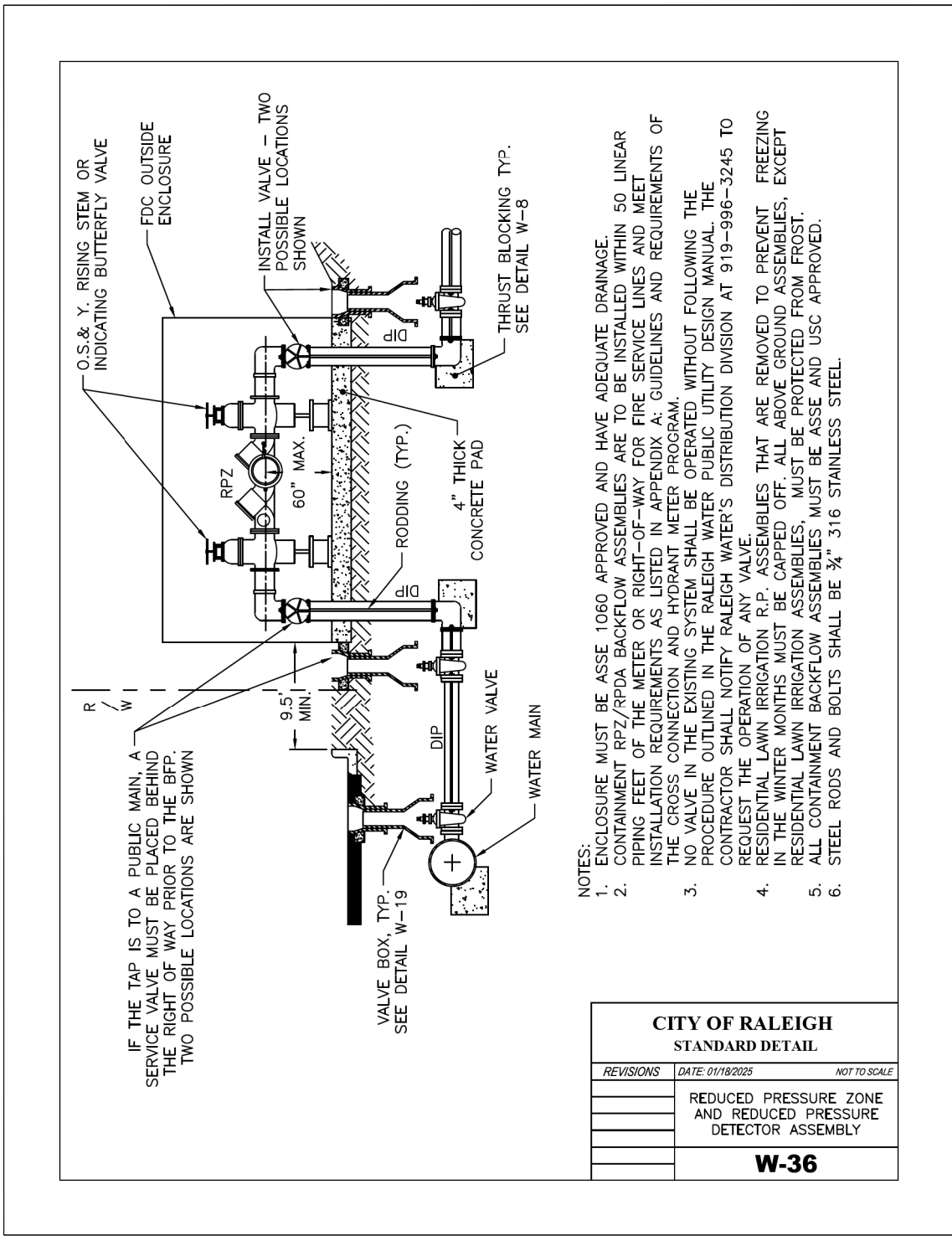
CITY OF RALEIGH STANDARD DETAIL		
REVISIONS	DATE: 01/18/2025	NOT TO SCALE
	ONE OR TWO FAMILY DWELLINGS BACKFLOW PREVENTION/ METER ASSEMBLY INSTALLATION	
	W-24	



CITY OF RALEIGH		
STANDARD DETAIL		
REVISIONS	DATE: 01/18/2025	NOT TO SCALE
	WATER METER BOX	
	W-25	



CITY OF RALEIGH		
STANDARD DETAIL		
REVISIONS	DATE: 06/18/2025	NOT TO SCALE
	FIRE, DOMESTIC & IRRIGATION	
	OPTIONS SCHEMATIC	
	W-34	



Prepared in the Office of:

AECOM

AECOM TECHNICAL SERVICES OF NORTH CAROLINA, INC.
5438 WADE PARK BLVD, SUITE 200, RALEIGH, NC 27607
919-481-1100
F - 0342

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

PROJECT REFERENCE NO.
U-5302

DESIGNED BY: KKPT
DRAWN BY: ZS
CHECKED BY:
APPROVED BY: SDS
REVISED: CRC
NORTH CAROLINA
DEPARTMENT OF
TRANSPORTATION
UTILITIES ENGINEERING SEC.
PHONE: (919) 707-6690
FAX: (919) 250-4151

SHEET NO.
UC-3E

NORTH CAROLINA
PROFESSIONAL
SEAL
058684
ENGINEER
CATHERINE R. CANEM

Signed by: Catherine R. Canem
7780202FEEA6415

1/19/2026

UTILITY CONSTRUCTION

Public
Water Distribution / Extension System
The City of Raleigh consents to the connection and extension of the City's public water system as shown on this plan. The material and Construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.

City of Raleigh
Public Utilities Department Permit # W-3663 REV

RALEIGH WATER - PLANS AUTHORIZED FOR CONSTRUCTION
Any work authorized by this approval must proceed in accordance with the plans. This electronic approval may not be edited once issued. Any modification to this approval once issued will invalidate this approval.

Signed by:
Mitchell Wilson
7187988F09E453

1/20/2026

Public
Sewer Collection / Extension System
The City of Raleigh consents to the connection and extension of the City's public sewer system as shown on this plan. The material and Construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.

City of Raleigh
Public Utilities Department Permit # S-4586 REV

Prepared in the Office of:

AECOM

AECOM TECHNICAL SERVICES OF NORTH CAROLINA, INC.
5438 WADE PARK BLVD, SUITE 200, RALEIGH, NC 27607
919-481-1100
F-0342

PROJECT REFERENCE NO.
U-5302

DESIGNED BY: KKPT
DRAWN BY: ZS
CHECKED BY:
APPROVED BY: SDS
REVISED: CRC

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

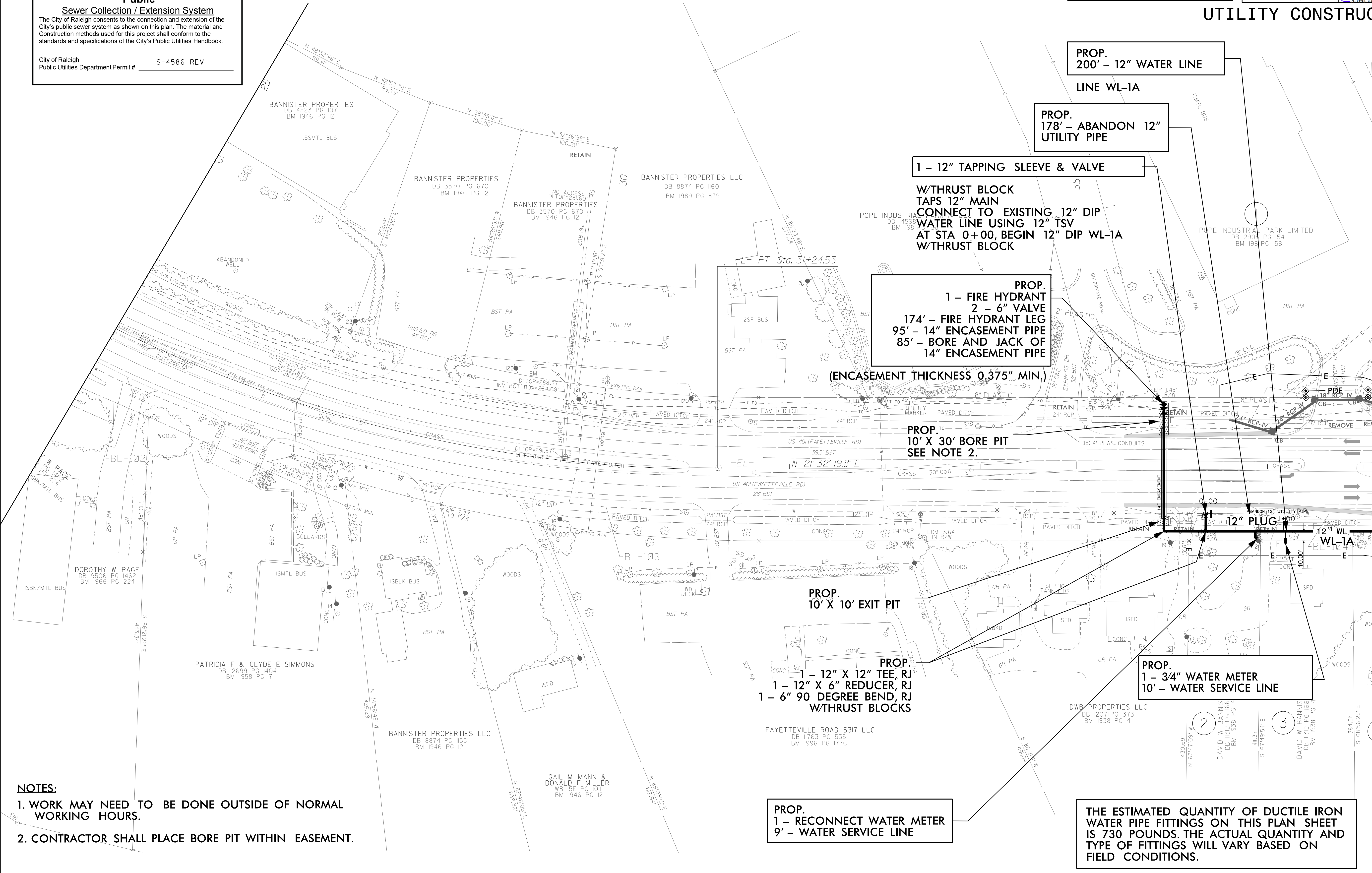
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UC-4



1/19/2026

DOCUMENT NOT CONSIDERED FINAL
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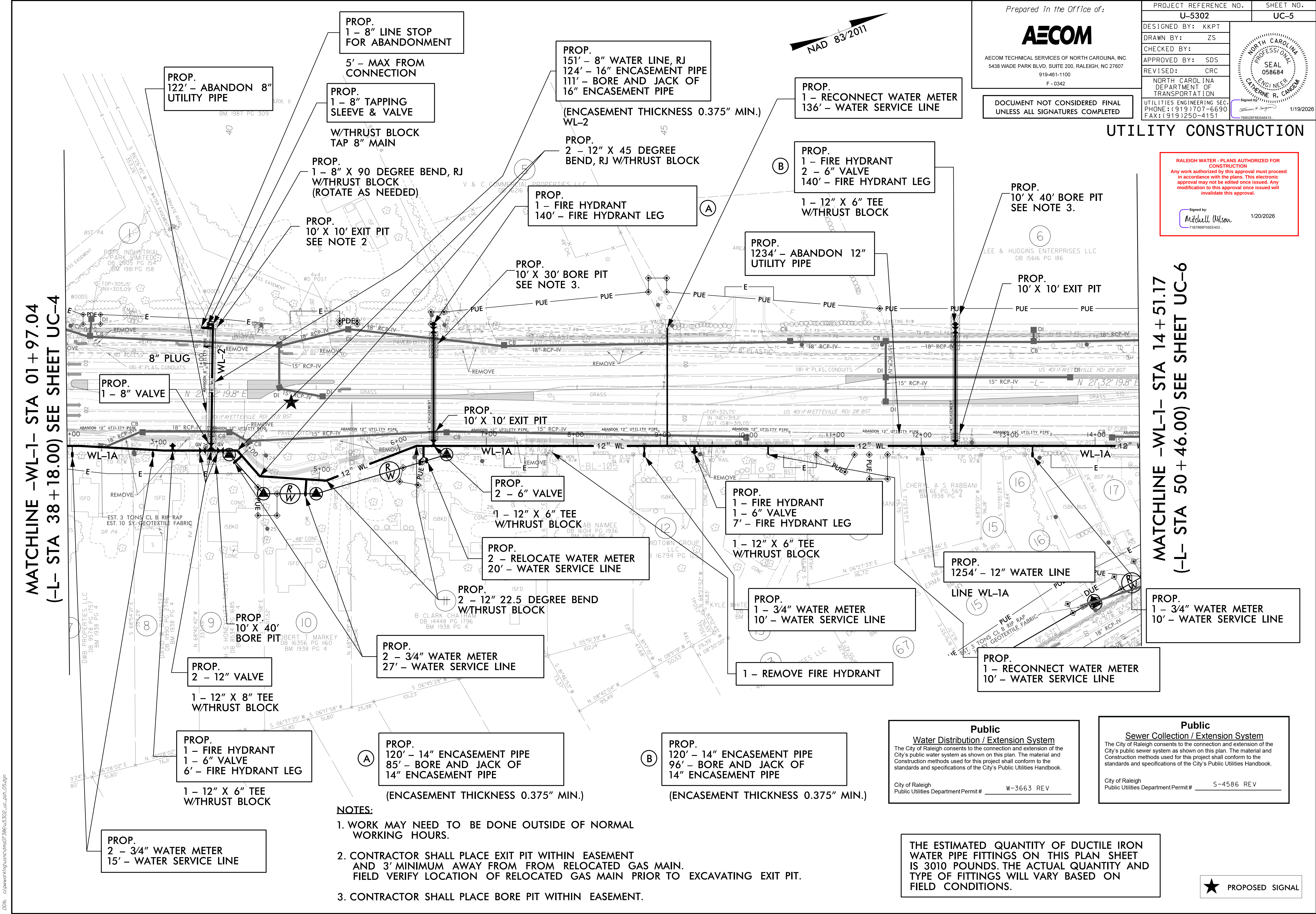
UTILITY CONSTRUCTION



- NOTES:**
1. WORK MAY NEED TO BE DONE OUTSIDE OF NORMAL WORKING HOURS.
 2. CONTRACTOR SHALL PLACE BORE PIT WITHIN EASEMENT.

THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 730 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

MATCHLINE -WL-1- STA 01+97.04
(-L- STA 38+18.00) SEE SHEET UC-5



Prepared in the Office of:

AECOM

AECOM TECHNICAL SERVICES OF NORTH CAROLINA, INC.
5438 WADE PARK BLVD, SUITE 200, RALEIGH, NC 27607
919-481-1100
F-0342

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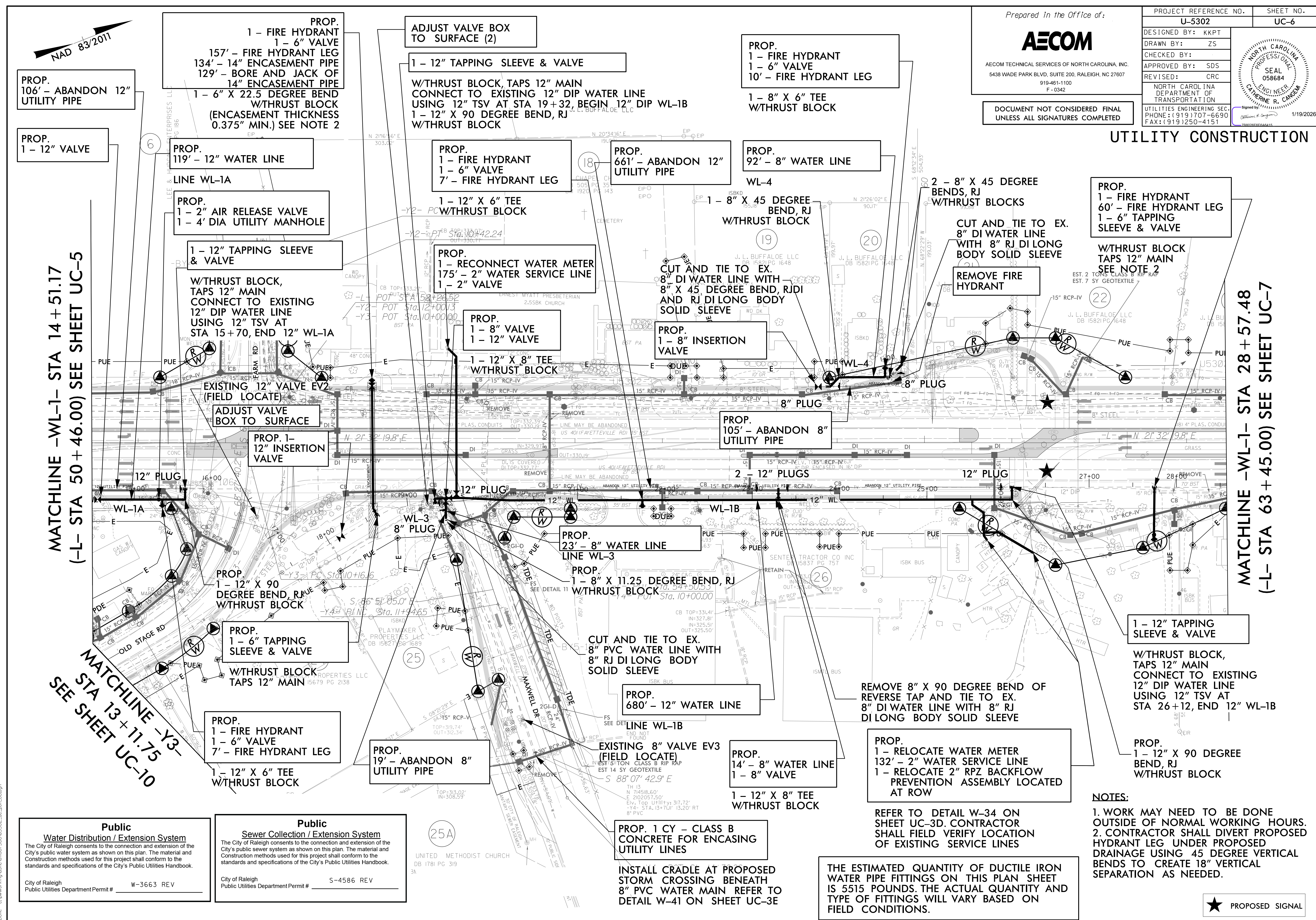
PROJECT REFERENCE NO.		SHEET NO.
U-5302		UC-5
DESIGNED BY:	KKPT	Seal of the State of North Carolina Professional Engineer Catherine R. Canham 1/19/2026
DRAWN BY:	ZS	
CHECKED BY:		
APPROVED BY:	SDS	
REVISED:	CRC	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		
UTILITIES ENGINEERING SEC.		
PHONE: (919) 707-6690		
FAX: (919) 250-4151		

UTILITY CONSTRUCTION

RALEIGH WATER - PLANS AUTHORIZED FOR CONSTRUCTION
Any work authorized by this approval must proceed in accordance with the plans. This electronic approval may not be edited once issued. Any modification to this approval once issued will invalidate this approval.

Signed by:
Mitchell Wilson
71817869505E453

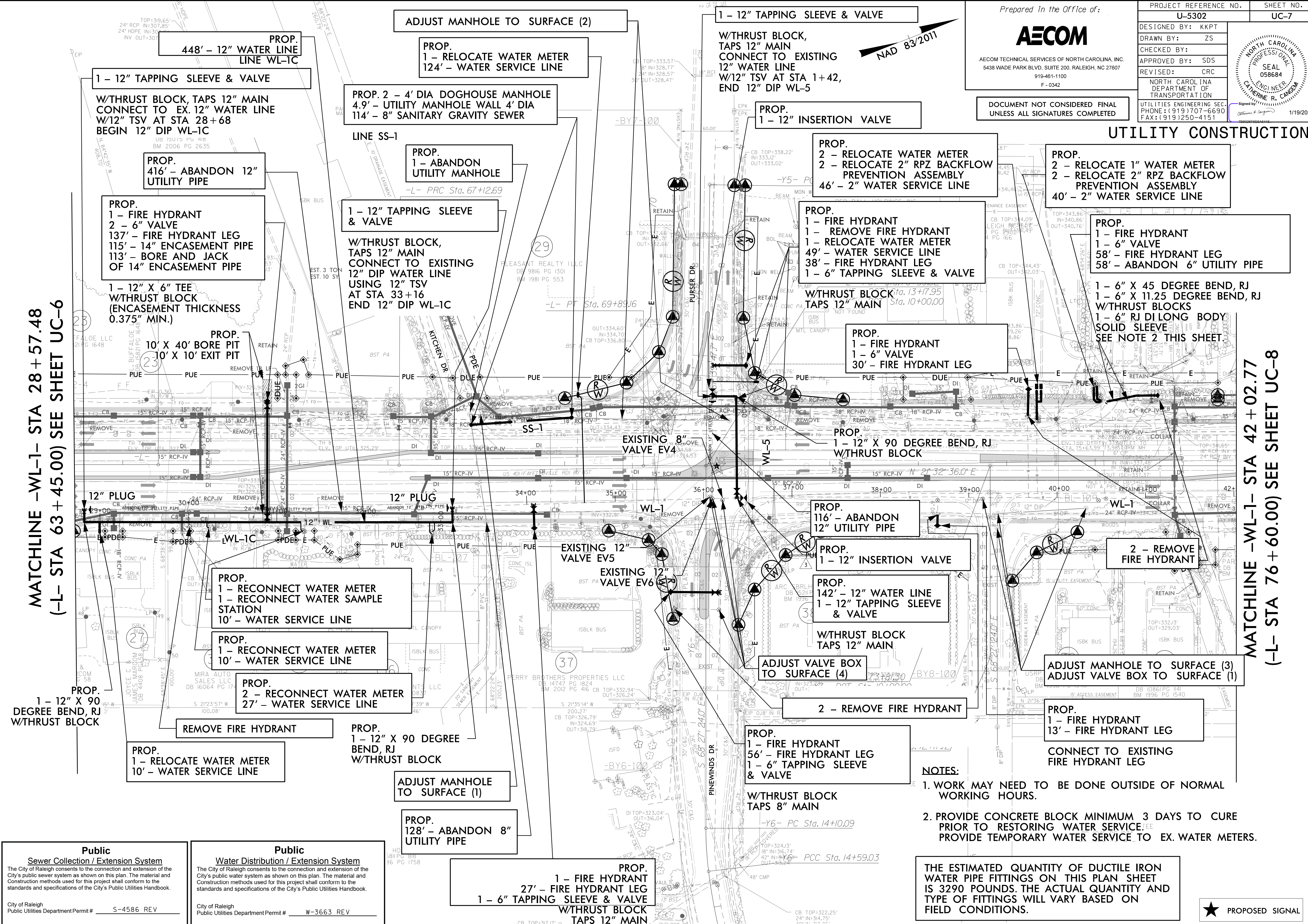
1/20/2026



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Signed by:
Mitchell Wilson
7/18/2026

1/20/2026



Public
Sewer Collection / Extension System
The City of Raleigh consents to the connection and extension of the City's public sewer system as shown on this plan. The material and Construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.

City of Raleigh
Public Utilities Department Permit # S-4586 REV

Public
Water Distribution / Extension System
The City of Raleigh consents to the connection and extension of the City's public water system as shown on this plan. The material and Construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.

City of Raleigh
Public Utilities Department Permit # W-3663 REV

- NOTES:**
1. WORK MAY NEED TO BE DONE OUTSIDE OF NORMAL WORKING HOURS.
 2. PROVIDE CONCRETE BLOCK MINIMUM 3 DAYS TO CURE PRIOR TO RESTORING WATER SERVICE. PROVIDE TEMPORARY WATER SERVICE TO EX. WATER METERS.

THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 3290 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

★ PROPOSED SIGNAL

Prepared in the Office of:

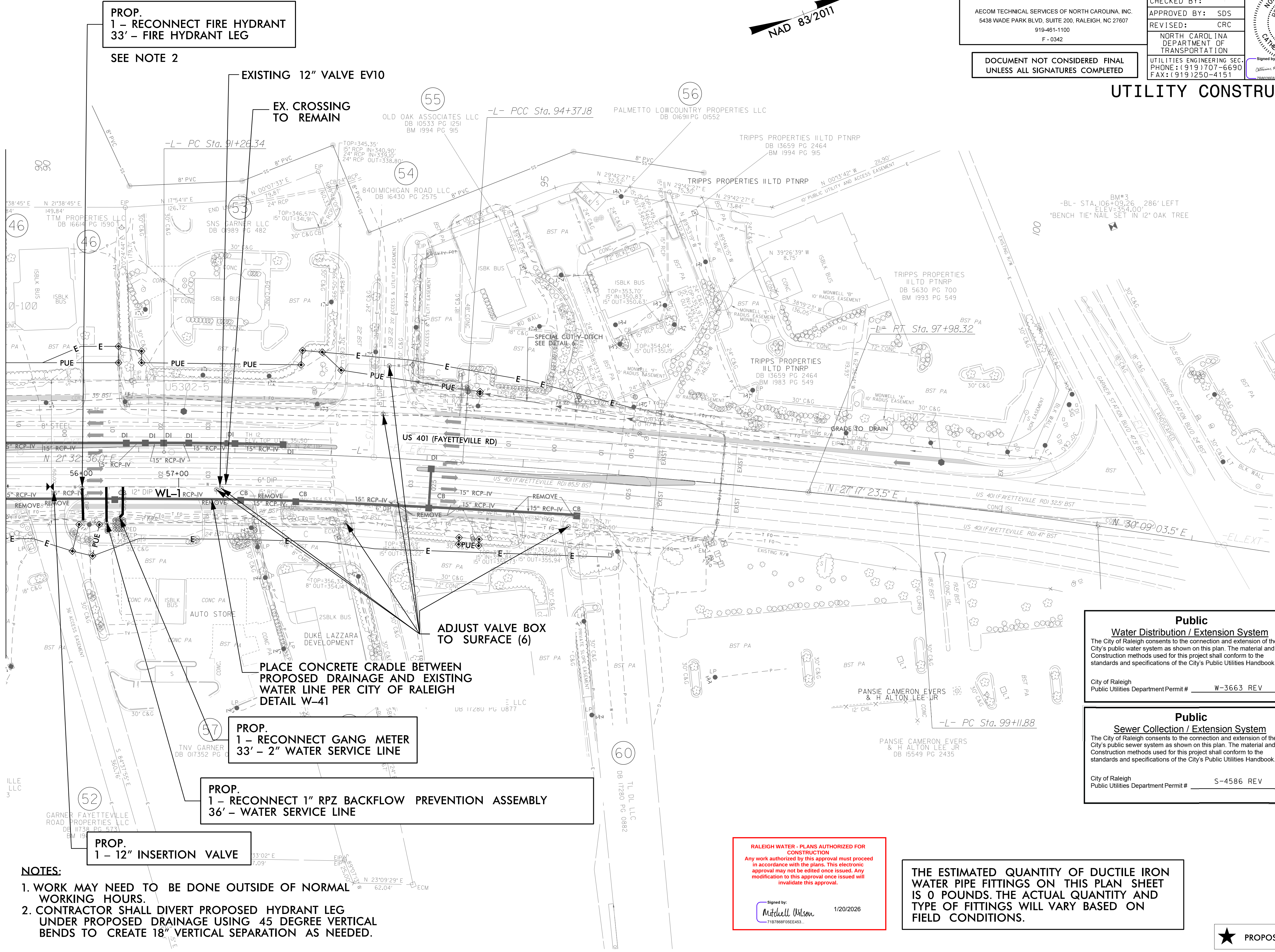
AECOM
AECOM TECHNICAL SERVICES OF NORTH CAROLINA, INC.
5438 WADE PARK BLVD, SUITE 200, RALEIGH, NC 27607
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PROJECT REFERENCE NO.		SHEET NO.
U-5302		UC-9
DESIGNED BY:	KKPT	North Carolina Professional Seal 058684 Engineer Catherine R. Canem 1/19/2026
DRAWN BY:	ZS	
CHECKED BY:		
APPROVED BY:	SDS	
REVISED:	CRC	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151		

UTILITY CONSTRUCTION

MATCHLINE -WL-1- STA 55+20.07
(-L- STA 89+62.00) SEE SHEET UC-8



PROP.
1 - RECONNECT FIRE HYDRANT
33' - FIRE HYDRANT LEG

SEE NOTE 2

EXISTING 12" VALVE EV10

EX. CROSSING
TO REMAIN

-L- PC Sta. 94+37.18

PALMETTO LOWCOUNTRY PROPERTIES LLC
DB 016911 PG 01552

NAD 83/2011

TRIPPS PROPERTIES II, LTD PTNRP
DB 13659 PG 2464
BM 1994 PG 915

TRIPPS PROPERTIES II, LTD PTNRP
DB 13659 PG 2464
BM 1994 PG 915

TRIPPS PROPERTIES
II, LTD PTNRP
DB 13659 PG 2464
BM 1983 PG 549

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DB 13659 PG 2464
BM 1983 PG 549

PLACE CONCRETE CRADLE BETWEEN
PROPOSED DRAINAGE AND EXISTING
WATER LINE PER CITY OF RALEIGH
DETAIL W-41

ADJUST VALVE BOX
TO SURFACE (6)

PROP.
1 - RECONNECT GANG METER
33' - 2" WATER SERVICE LINE

PROP.
1 - RECONNECT 1" RPZ BACKFLOW PREVENTION ASSEMBLY
36' - WATER SERVICE LINE

PROP.
1 - 12" INSERTION VALVE

NOTES:

1. WORK MAY NEED TO BE DONE OUTSIDE OF NORMAL WORKING HOURS.
2. CONTRACTOR SHALL DIVERT PROPOSED HYDRANT LEG UNDER PROPOSED DRAINAGE USING 45 DEGREE VERTICAL BENDS TO CREATE 18" VERTICAL SEPARATION AS NEEDED.

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City of Raleigh
Public Utilities Department Permit # W-3663 REV

Public
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Signed by:
Mitchell Wilson
7187888706E453...
1/20/2026

THE ESTIMATED QUANTITY OF DUCTILE IRON
WATER PIPE FITTINGS ON THIS PLAN SHEET
IS 0 POUNDS. THE ACTUAL QUANTITY AND
TYPE OF FITTINGS WILL VARY BASED ON
FIELD CONDITIONS.

★ PROPOSED SIGNAL

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Signed by:
Mitchell Wilson 1/20/2026
7187688F05EE453...

Prepared in the Office of:
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U-5302

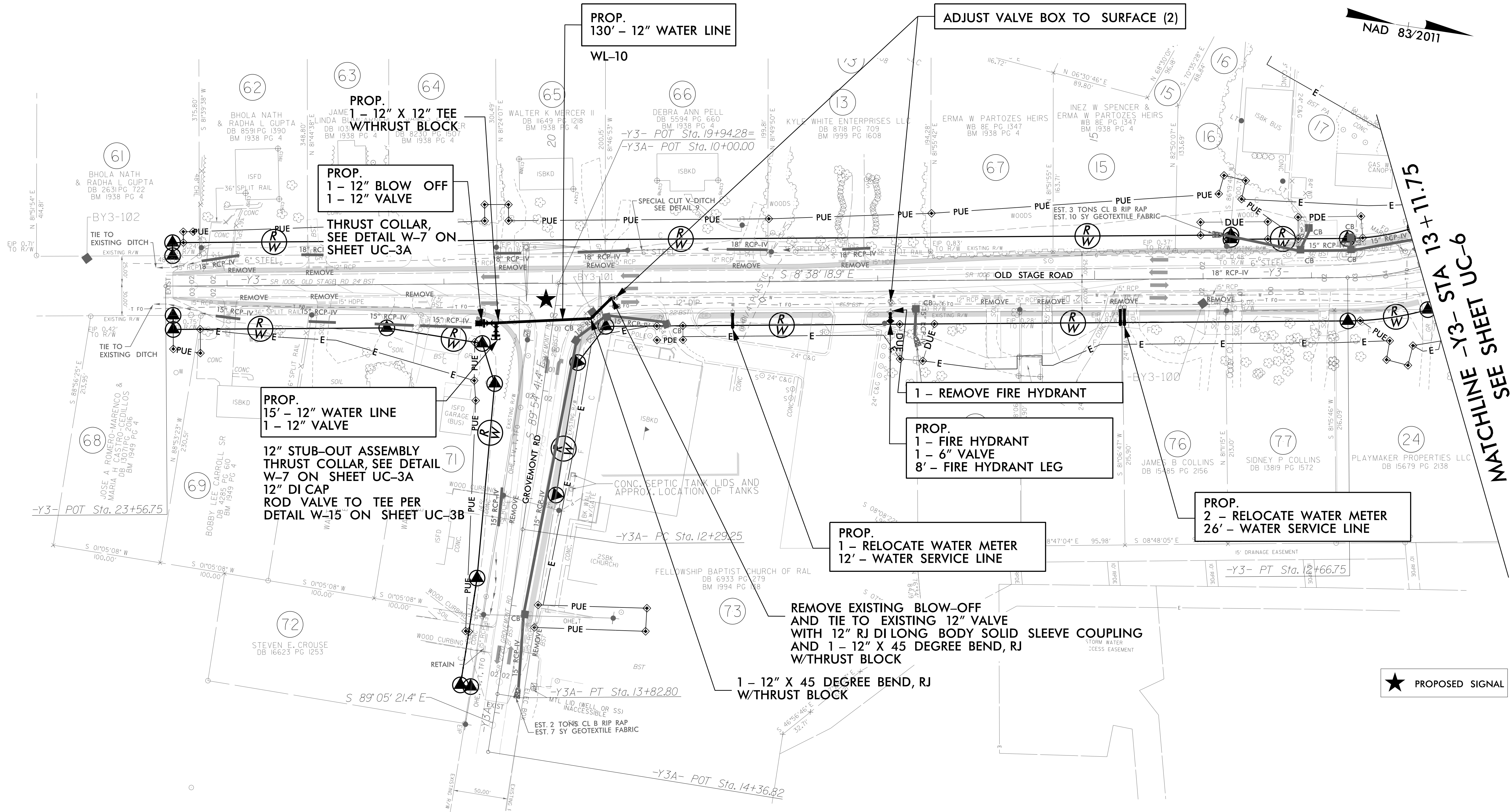
SHEET NO.
UC-10

DESIGNED BY: KKPT
DRAWN BY: ZS
CHECKED BY:
APPROVED BY: SDS
REVISED: CRC
NORTH CAROLINA
DEPARTMENT OF
TRANSPORTATION
UTILITIES ENGINEERING SEC.
PHONE: (919) 707-6690
FAX: (919) 250-4151

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SEAL
058684
ENGINEER
CATHERINE R. CANDEM
1/19/2026

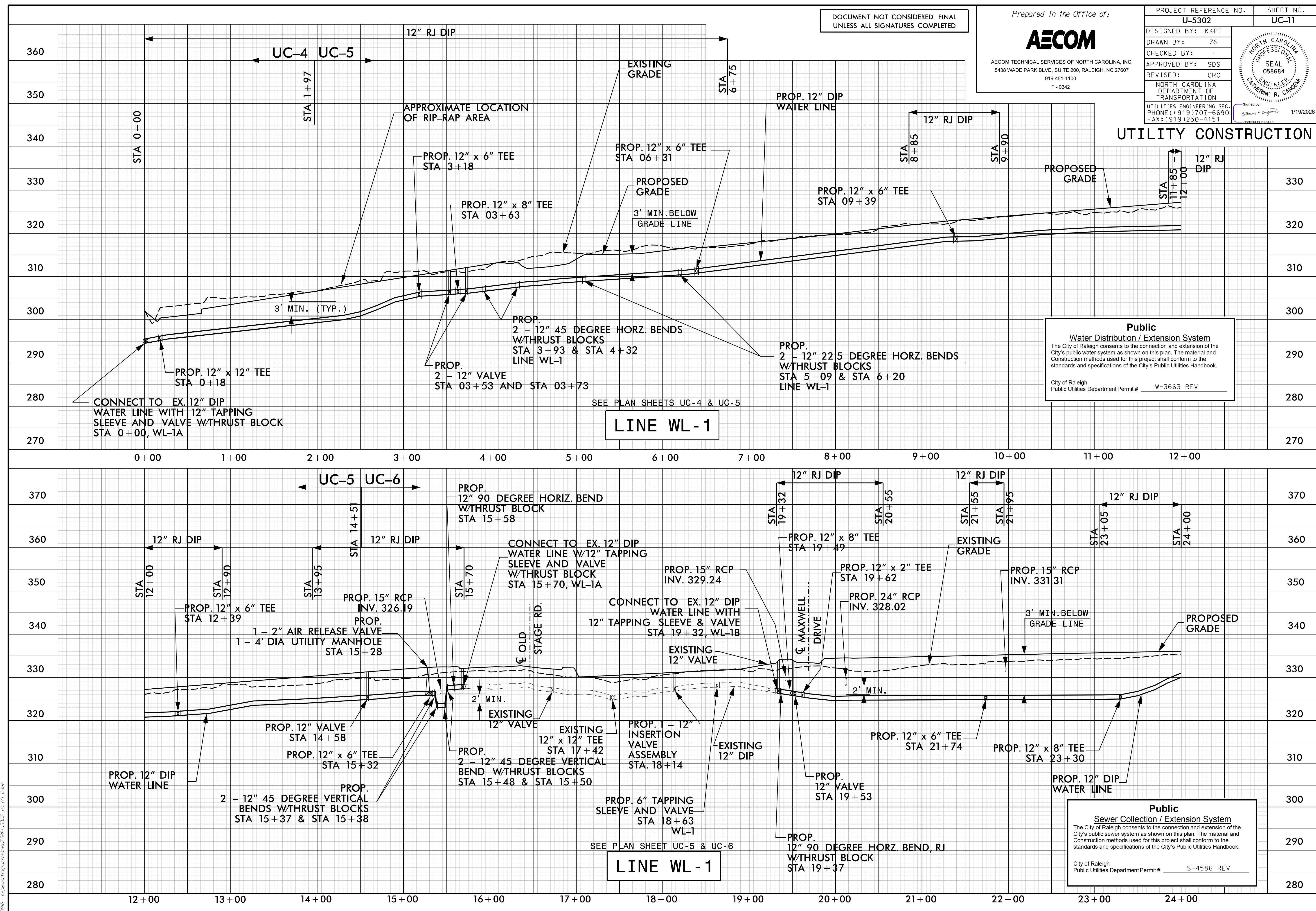
UTILITY CONSTRUCTION



NOTES:

1. WORK MAY NEED TO BE DONE OUTSIDE OF NORMAL WORKING HOURS.

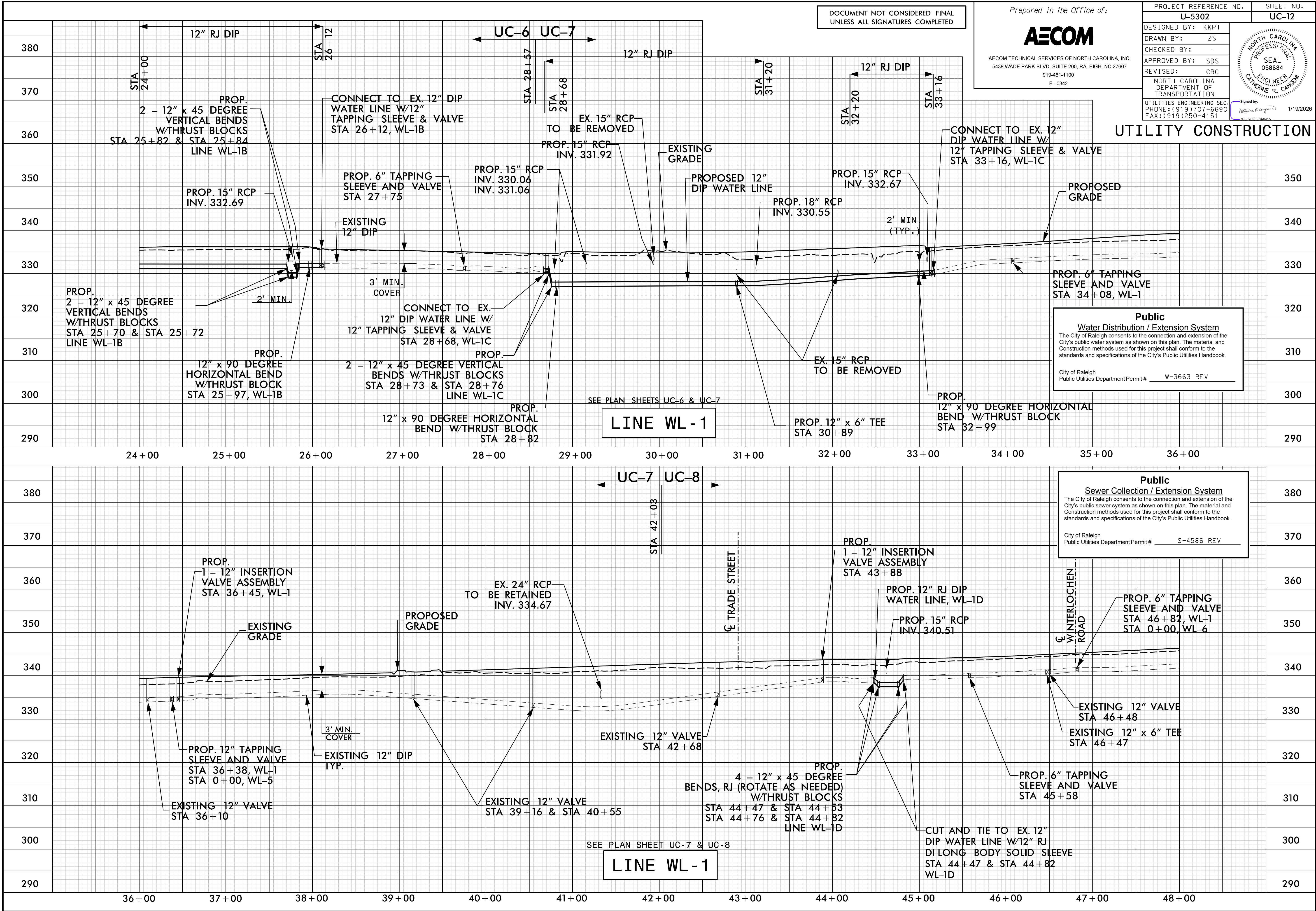
THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 1070 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.



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Signed by: Mitchell Wilson 1/20/2026
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DATE: 11/24/2025
TIME: 11:27:41 PM
OGN: c:\pwworking\usnc\dms07386\w5302_vc_ptf_11.dgn





Signed by: *Catherine R. Cancem* 1/19/2026

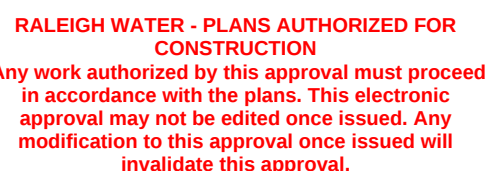
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City of Raleigh
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LINE WL-4

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Signed by: Catherine R. Cangiamila 1/19/2026
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Signed by: Mitchell Wilson 1/20/2026
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DATE: 11/24/2025
TIME: 5:07:32 PM