



**Purchasing Department**  
140 Stonewall Avenue West, Ste 204  
Fayetteville, GA 30214  
Phone: 770-305-5420  
[www.fayettecountyga.gov](http://www.fayettecountyga.gov)

April 16, 2025

**Subject: Invitation to Bid #2563-B: On-Call Annual Contract for Water Distribution and Stormwater Infrastructure**

Gentlemen/Ladies:

Fayette County, Georgia invites you to submit a bid for an On-Call Annual Contract for Water Distribution and Stormwater Infrastructure. You are invited to submit a bid in accordance with the information contained herein.

Questions concerning this invitation to bid should be addressed to Colette Cobb in writing via email to [ccobb@fayettecountyga.gov](mailto:ccobb@fayettecountyga.gov) or fax to (770) 719-5534. **Questions will be accepted until 3:00 p.m., Friday, May 2, 2025.**

Purchasing Department office hours are Monday through Friday 8:00 a.m. to 5:00 p.m. The office telephone number is (770) 305-5420.

Please return your response to the following address:

Fayette County Purchasing Department  
140 Stonewall Avenue West, Suite 204  
Fayetteville, Georgia 30214

Bid Number: 2563-B

Bid Name: *On-Call Annual Contract for Water Distribution and Stormwater Infrastructure*

Your envelope *must* be sealed and should show your company's name and address.

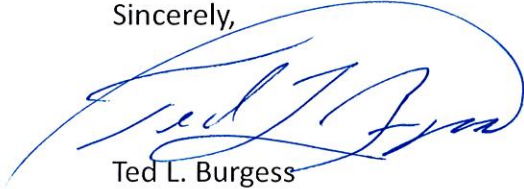
**Bids will be received at the above address until 3:00 p.m., Friday, May 9, 2025,** in the Purchasing Department, Suite 204. Bids will be opened at that time.

Bids must be signed to be considered. Late bids cannot be considered. Faxed bids or emailed bids cannot be considered.

If you download this invitation to bid from the county's web site, it will be your responsibility to check the web site for any addenda that might be issued for this solicitation. The county cannot not be responsible for a vendor not receiving information provided in any addendum.

Thank you for participating in the solicitation process.

Sincerely,

A handwritten signature in blue ink, appearing to read "Ted L. Burgess", with a large, sweeping loop at the end.

Ted L. Burgess  
Chief Procurement Officer

## **INTENT AND PURPOSE**

### **ITB #2563-B: On-Call Annual Contract for Water Distribution and Stormwater Infrastructure**

Fayette County is requesting bids from Georgia Department of Transportation (GDOT) pre-qualified contractors experienced with installation and repair of water distribution systems and stormwater infrastructure to provide on-call services for water distribution and stormwater infrastructure throughout the County.

Fayette County Water System (FCWS), in conjunction with Fayette County Environmental Management Department (EMD), is seeking to streamline contracting and award processes by reducing the bid/offer effort required to submit bids and proposals on an on-going basis. The purpose of this Invitation to Bid (ITB) is to create a competitive bidding environment while maintaining qualification standards. All work must be consistent with Georgia Department of Transportation (GDOT) and Fayette County details and standards. Prompt Response repair services may be necessary for repairs to water main breaks, road cuts, landscaping, hydrants, valves, etc.

Waterline distribution installation and repair projects may include construction of new or replacement of water mains, services lines, and all associated appurtenances. Projects include labor, materials, and equipment to complete all aspects of waterline construction including pre-construction meeting, initial and on-going erosion control, installation of valves, valve actuators, water-main and service-line replacements, hydrant replacement, line removal and abandonment, replacement of landscape, site cleanup, and maintenance of erosion control measures as vegetation is reestablished. Repaving of roads, and the installation or replacement of curb and gutter and/or sidewalk, must be consistent with Fayette County's or its municipalities ordinances, is also included as a requirement of projects when applicable. All work performed is subject to review and inspection by a Fayette County Water System representative.

Stormwater infrastructure construction and replacement projects may include construction of new or replacement of existing stormwater infrastructure, all appurtenances, landscaping, site restoration, and grading. Projects include labor, materials, and equipment to complete all aspects of stormwater infrastructure improvement including pre-construction meeting, initial and on-going erosion control, installation or replacement of culverts and pipes, manholes, catch basins, junction boxes, inlets, headwalls, and outlet protection, replacement of landscape, BMP maintenance, site cleanup and maintenance of erosion control measures as vegetation is reestablished. Repaving of roads, and the installation or replacement of curb and gutter and/or sidewalk, must be consistent with Fayette County's ordinances, is also included as a requirement of projects when applicable. All work performed is subject to review and inspection by a county representative.

## Checklist of Required Documents

*(Be Sure to Return This Checklist and  
the Required Documents in the order listed below)*

### ITB #2563-B: On-Call Annual Contract for Water Distribution and Stormwater Infrastructure

Company information – on form provided \_\_\_\_\_

Contractor Affidavit under O.C.G.A. § 13-10-91(b)(1) – on form provided \_\_\_\_\_

Bid Schedule\* \_\_\_\_\_

Bid Bond\* \_\_\_\_\_

List of exceptions, if any – on form provided \_\_\_\_\_

References – on form provided \_\_\_\_\_

Statement of Bidder Qualifications \_\_\_\_\_

Addenda, if Any \_\_\_\_\_

**\*FAILURE TO EXECUTE AND RETURN THIS DOCUMENT WILL MAKE THE BID NON-RESPONSIVE AND NOT  
ELIGIBLE FOR AWARD CONSIDERATION.**

**COMPANY NAME:** \_\_\_\_\_



## COMPANY INFORMATION

ITB #2563-B: On-Call Annual Contract for Water Distribution and Stormwater Infrastructure

### A. COMPANY

Company Name: \_\_\_\_\_

Physical Address: \_\_\_\_\_

\_\_\_\_\_

Mailing Address (if different): \_\_\_\_\_

\_\_\_\_\_

Website (if applicable): \_\_\_\_\_

### B. AUTHORIZED REPRESENTATIVE

Signature: \_\_\_\_\_

Printed or Typed Name: \_\_\_\_\_

Title: \_\_\_\_\_

E-mail Address: \_\_\_\_\_

Phone Number: \_\_\_\_\_ Fax Number: \_\_\_\_\_

### C. PROJECT CONTACT PERSON

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Office Number: \_\_\_\_\_ Cell Number: \_\_\_\_\_

E-mail Address: \_\_\_\_\_

**Contractor Affidavit under O.C.G.A. § 13-10-91(b)(I)**

The undersigned contractor ("Contractor") executes this Affidavit to comply with O.C.G.A § 13-10-91 related to any contract to which Contractor is a party that is subject to O.C.G.A. § 13-10-91 and hereby verifies its compliance with O.C.G.A. § 13-10-91, attesting as follows:

- a) The Contractor has registered with, is authorized to use and uses the federal work authorization program commonly known as E-Verify, or any subsequent replacement program;
- b) The Contractor will continue to use the federal work authorization program throughout the contract period, including any renewal or extension thereof;
- c) The Contractor will notify the public employer in the event the Contractor ceases to utilize the federal work authorization program during the contract period, including renewals or extensions thereof;
- d) The Contractor understands that ceasing to utilize the federal work authorization program constitutes a material breach of Contract;
- e) The Contractor will contract for the performance of services in satisfaction of such contract only with subcontractors who present an affidavit to the Contractor with the information required by O.C.G.A. § 13-10-91(a), (b), and (c);
- f) The Contractor acknowledges and agrees that this Affidavit shall be incorporated into any contract(s) subject to the provisions of O.C.G.A. § 13-10-91 for the project listed below to which Contractor is a party after the date hereof without further action or consent by Contractor; and
- g) Contractor acknowledges its responsibility to submit copies of any affidavits, drivers' licenses, and identification cards required pursuant to O.C.G.A. § 13-10-91 to the public employer within five business days of receipt.

\_\_\_\_\_  
Federal Work Authorization User Identification Number

\_\_\_\_\_  
Date of Authorization

\_\_\_\_\_  
Name of Contractor

#2563-B On-Call Annual Contract for  
Water Distribution and Stormwater Infrastructure  
Name of Project

**Fayette County, Georgia**  
Name of Public Employer

**I hereby declare under penalty of perjury that the foregoing is true and correct.**

Executed on \_\_\_\_\_, \_\_\_\_\_, 2025 in \_\_\_\_\_ (city), \_\_\_\_\_ (state).

\_\_\_\_\_  
Signature of Authorized Officer or Agent

\_\_\_\_\_  
Printed Name and Title of Authorized Officer or Agent

SUBSCRIBED AND SWORN BEFORE ME  
ON THIS THE \_\_\_\_\_ DAY OF \_\_\_\_\_, 2025.

\_\_\_\_\_  
NOTARY PUBLIC

My Commission Expires: \_\_\_\_\_

## Bid Schedule

### ITB 2563-B On-Call Annual Contract for Water Distribution and Stormwater Infrastructure

PAY ITEM	TASK DESCRIPTION	ESTIMATED QUANTITY	UNIT MEASURE	UNIT PRICE	EXTENDED AMOUNT
151-1000	MOBILIZATION	20.00	LS		
151-1001	MOBILIZATION, PROMPT RESPONSE	5.00	LS		
150-1000a	TRAFFIC CONTROL, MUTCD TA-1	1.00	ED		
150-1000b	TRAFFIC CONTROL, MUTCD TA-3	1.00	ED		
150-1000c	TRAFFIC CONTROL, MUTCD TA-6	1.00	ED		
150-1000d	TRAFFIC CONTROL, MUTCD TA-7	1.00	ED		
150-1000e	TRAFFIC CONTROL, MUTCD TA-8	1.00	ED		
150-1000f	TRAFFIC CONTROL, MUTCD TA-10	1.00	ED		
150-1000g	TRAFFIC CONTROL, MUTCD TA-11	1.00	ED		
150-1000h	TRAFFIC CONTROL, MUTCD TA-12	1.00	ED		
150-1000i	TRAFFIC CONTROL, MUTCD TA-13	1.00	ED		
150-1000j	TRAFFIC CONTROL, MUTCD TA-15	1.00	ED		
150-1000k	TRAFFIC CONTROL, MUTCD TA-18	1.00	ED		
163-0232	TEMPORARY GRASSING	5.00	AC		
163-0240	MULCH	10.00	TN		
163-0527	CONSTRUCT AND REMOVE RIP RAP CHECK DAMS, STONE PLAIN RIP RAP / SAND BAGS	40.00	EA		
163-0550	CONSTRUCT AND REMOVE INLET SEDIMENT TRAP	8.00	EA		
171-0030	TEMPOARY SILT FENCE, TP C	5000.00	LF		
202-1000	CLEARING & GRUBBING	10.00	AC		
204-0001	CHANNEL EXCAVATION	8.00	CY		
205-0001	UNCLASSIFIED EXCAVATION	12.00	CY		
205-0210	ROCK EXCAVATION	60.00	CY		
207-0203	FOUND BK FILL MATL, TYPE II	20.00	CY		
210-9999	GRADING	6000.00	SY		
310-1101	GR AGGR BASE CRS, INCL MATL	120.00	TN		
402-3103	RECYCLED ASPH CONC 9.5 MM SUPERPAVE, TYPE II, GP 2 ONLY, INCL BITUM MATL & H LIME	480.00	TN		
402-3130	RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME	320.00	TN		
402-3190	RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	630.00	TN		
413-0750	TACK COAT	220.00	GL		
441-0014	DRIVEWAY CONCRETE, 4 IN TK	80.00	SY		
441-0016	DRIVEWAY CONCRETE, 6 IN TK	60.00	SY		
441-0104	CONC SIDEWALK, 4 IN	240.00	SY		
441-0105	CONC SIDEWALK, 5 IN	120.00	SY		
441-0106	CONC SIDEWALK, 6 IN	60.00	SY		
441-0600	CONC HEADWALLS	112.00	CY		
441-6012	CONC CURB & GUTTER 6 IN X 24 IN TP 2	320.00	LF		
500-3002	CLASS AA CONCRETE	20.00	CY		
500-3101	CLASS A CONCRETE	80.00	CY		
500-3200	CLASS B CONCRETE	200.00	CY		
511-1000	BAR REINF STEEL	70.00	LB		
550-1150	STORM DRAIN PIPE, RCP, 15 IN, H 1-10	32.00	LF		
550-1180	STORM DRAIN PIPE, RCP, 18 IN, H 1-10	32.00	LF		
550-1181	STORM DRAIN PIPE, RCP, 18 IN, H 10-15	24.00	LF		
550-1240	STORM DRAIN PIPE, RCP, 24 IN, H 1-10	64.00	LF		
550-1241	STORM DRAIN PIPE, RCP, 24 IN, H 10-15	24.00	LF		
550-1300	STORM DRAIN PIPE, RCP, 30 IN, H 1-10	64.00	LF		
550-1360	STORM DRAIN PIPE, RCP, 36 IN, H 1-10	64.00	LF		
550-1361	STORM DRAIN PIPE, RCP, 36 IN, H 10-15	24.00	LF		
550-1420	STORM DRAIN PIPE, RCP, 42 IN, H 1-10	64.00	LF		
550-1421	STORM DRAIN PIPE, RCP, 42 IN, H 10-15	24.00	LF		
550-1480	STORM DRAIN PIPE, RCP, 48 IN, H 1-10	64.00	LF		
550-3515	SAFETY END SECTION 15 IN, STORM DRAIN, 6:1 SLOPE	2.00	EA		
550-3318	SAFETY END SECTION 18 IN, STORM DRAIN, 4:1 SLOPE	2.00	EA		
550-3324	SAFETY END SECTION 24 IN, STORM DRAIN, 4:1 SLOPE	2.00	EA		
550-3330	SAFETY END SECTION 30 IN, STORM DRAIN, 4:1 SLOPE	2.00	EA		
550-3336	SAFETY END SECTION 36 IN, STORM DRAIN, 4:1 SLOPE	2.00	EA		
550-3518	SAFETY END SECTION 18 IN, STORM DRAIN, 6:1 SLOPE	2.00	EA		
550-3524	SAFETY END SECTION 24 IN, STORM DRAIN, 6:1 SLOPE	2.00	EA		
550-3530	SAFETY END SECTION 30 IN, STORM DRAIN, 6:1 SLOPE	2.00	EA		
550-3536	SAFETY END SECTION 36 IN, STORM DRAIN, 6:1 SLOPE	2.00	EA		
550-4218	FLARED END SECTION 18 IN, STORM DRAIN	4.00	EA		
550-4224	FLARED END SECTION 24 IN, STORM DRAIN	4.00	EA		
550-4230	FLARED END SECTION 30 IN, STORM DRAIN	4.00	EA		
550-4236	FLARED END SECTION 36 IN, STORM DRAIN	4.00	EA		
550-4242	FLARED END SECTION 42 IN, STORM DRAIN	4.00	EA		
550-4248	FLARED END SECTION 48 IN, STORM DRAIN	4.00	EA		
603-2180	STN DUMPED RIP RAP, TP 3, 12 IN	460.00	SY		
603-7000	PLASTIC FILTER FABRIC	500.00	SY		
611-3000	RECONSTR CATCH BASIN, GROUP 1	1.00	EA		
611-3002	RECONSTR CATCH BASIN, GROUP 2	1.00	EA		



615-1000	JACK AND BORE PIPE-	440.00	LF		
668-1100	CATCH BASIN, GP 1	2.00	EA		
668-1110	CATCH BASIN, GP 1, ADDL DEPTH	4.00	LF		
668-1200	CATCH BASIN, GP 2	2.00	EA		
668-1210	CATCH BASIN, GP 2, ADDL DEPTH	4.00	LF		
668-4300	STORM SEWER MANHOLE, TP 1	2.00	EA		
668-4311	STORM SEWER MANHOLE, TP 1, ADDL DEPTH, CL 1	4.00	LF		
668-4400	STORM SEWER MANHOLE, TP 2	2.00	EA		
668-4411	STORM SEWER MANHOLE, TP 2, ADDL DEPTH, CL 1	4.00	LF		
668-5000	JUNCTION BOX	2.00	EA		
670-0125	ABANDON MANHOLE	1.00	EA		
670-0500	BUTTERFLY VALVE -	1.00	EA		
670-0505	BUTTERFLY VALVE, 12 IN	1.00	EA		
670-0515	BUTTERFLY VALVE, 16 IN	1.00	EA		
670-0520	BUTTERFLY VALVE, 18 IN	1.00	EA		
670-0525	BUTTERFLY VALVE, 20 IN	1.00	EA		
670-0535	BUTTERFLY VALVE, 24 IN	1.00	EA		
670-0800	WATER METER, 3/4 IN	10.00	EA		
670-0801	WATER METER, 1 IN	15.00	EA		
670-0803	WATER METER, 1 1/2 IN	1.00	EA		
670-0805	WATER METER, 2 IN	2.00	EA		
670-0810a	WATER METER, 4 IN	1.00	EA		
670-0810b	WATER METER, 4 IN INCL BFP AND VAULT	1.00	EA		
670-0815a	WATER METER, 6 IN	1.00	EA		
670-0815b	WATER METER, 6 IN INCL BFP AND VAULT	1.00	EA		
670-0816	WATER METER, 8 IN INCL BFP AND VAULT	1.00	EA		
670-0817	WATER METER, INCL BYPASS AND VAULT, 4 IN AND LARGER	1.00	EA		
670-0910	WATER MAIN ACCESS MANHOLE, TP 2	1.00	EA		
670-0935	WATER MAIN ACCESS MANHOLE, ADD'L DEPTH, CL 2	4.00	LF		
670-0940	WATER MAIN ACCESS MANHOLE, ADD'L DEPTH, CL 3	4.00	LF		
670-0950	WATER VAULT INCL 6 IN FIRE CONNECTION	1.00	EA		
670-0955	WATER METER, 4 IN, INCL VAULT, 8 IN FIRE CONNECTION, AND BFP	1.00	EA		
670-1010	WATER MAIN -	20.00	LF		
670-1020	WATER MAIN, 2 IN	20.00	LF		
670-1030	WATER MAIN, 3 IN, PVC	20.00	LF		
670-1040	WATER MAIN, 4 IN	20.00	LF		
670-1060	WATER MAIN, 6 IN	20.00	LF		
670-1065	WATER MAIN, 6 IN, PVC	20.00	LF		
670-1080	WATER MAIN, 8 IN	60.00	LF		
670-1100	WATER MAIN, 10 IN	20.00	LF		
670-1120	WATER MAIN, 12 IN	20.00	LF		
670-1160	WATER MAIN, 16 IN	20.00	LF		
670-1200	WATER MAIN, 20 IN	20.00	LF		
670-1240	WATER MAIN, 24 IN	20.00	LF		
670-1330	WATER MAIN, 30 IN	20.00	LF		
670-1490	CUT AND CAP EXISTING WATER MAIN	80.00	EA		
670-1500	CAP OR REMOVE EXISTING WATER MAIN	12.00	EA		
670-1505	CAP & REMOVE EXISTING WATER LINE, 2 IN	2.00	EA		
670-1508	CAP & REMOVE EXISTING WATER LINE, 4 IN	2.00	EA		
670-1510	CAP & REMOVE EXISTING WATER LINE, 6 IN	2.00	EA		
670-1513	CAP & REMOVE EXISTING WATER LINE, 8 IN	2.00	EA		
670-1518	CAP & REMOVE EXISTING WATER LINE, 12 IN	2.00	EA		
670-1523	CAP & REMOVE EXISTING WATER LINE, 16 IN	1.00	EA		
670-1528	CAP & REMOVE EXISTING WATER LINE, 20 IN	1.00	EA		
670-1600	CUT & PLUG EXISTING WATER MAIN	1.00	EA		
670-1650	BACKFLOW PREVENTION ASSEMBLY	8.00	EA		
670-2002	VALVE MARKER	40.00	EA		
670-2003	AIR RELEASE VALVE ASSEMBLY	4.00	EA		
670-2005	BLOW-OFF ASSEMBLY, COMPLETE	2.00	EA		
670-2006	PRESSURE REDUCING VALVE, INCL VAULT -	1.00	EA		
670-2008	GATE VALVE -	1.00	EA		
670-2020	GATE VALVE, 2 IN	1.00	EA		
670-2040	GATE VALVE, 4 IN	1.00	EA		
670-2060	GATE VALVE, 6 IN	1.00	EA		
670-2080	GATE VALVE, 8 IN	10.00	EA		
670-2100	GATE VALVE, 10 IN	3.00	EA		
670-2120	GATE VALVE, 12 IN	3.00	EA		
670-2160	GATE VALVE, 16 IN	1.00	EA		
670-2180	GATE VALVE, 18 IN	1.00	EA		
670-2200	GATE VALVE, 20 IN	1.00	EA		
670-2240	GATE VALVE, 24 IN	1.00	EA		
670-2370	BALL VALVE, 2 IN	2.00	EA		
670-2500	INSERTION VALVE -	12.00	EA		
670-2800	COMBINATION AIR VALVES	4.00	EA		



670-3000	INSTALL AND REMOVE TEMPORARY WATER CONNECTION	20.00	EA		
670-3010	TAPPING VALVE -	1.00	EA		
670-3015	TAPPING SLEEVE & VALVE ASSEMBLY, -	1.00	EA		
670-3065	TAPPING SLEEVE & VALVE ASSEMBLY, 6 IN X 4 IN	1.00	EA		
670-3066	TAPPING SLEEVE & VALVE ASSEMBLY, 6 IN X 6 IN	1.00	EA		
670-3083	TAPPING SLEEVE & VALVE ASSEMBLY, 8 IN X 2 IN	1.00	EA		
670-3085	TAPPING SLEEVE & VALVE ASSEMBLY, 8 IN X 4 IN	1.00	EA		
670-3086	TAPPING SLEEVE & VALVE ASSEMBLY, 8 IN X 6 IN	1.00	EA		
670-3087	TAPPING SLEEVE & VALVE ASSEMBLY, 8 IN X 8 IN	1.00	EA		
670-3104	TAPPING SLEEVE & VALVE ASSEMBLY, 10 IN X 3 IN	1.00	EA		
670-3105	TAPPING SLEEVE & VALVE ASSEMBLY, 10 IN X 4 IN	1.00	EA		
670-3106	TAPPING SLEEVE & VALVE ASSEMBLY, 10 IN X 6 IN	1.00	EA		
670-3107	TAPPING SLEEVE & VALVE ASSEMBLY, 10 IN X 8 IN	1.00	EA		
670-3108	TAPPING SLEEVE & VALVE ASSEMBLY, 10 IN X 10 IN	1.00	EA		
670-3122	TAPPING SLEEVE & VALVE ASSEMBLY, 12 IN X 2 IN	1.00	EA		
670-3125	TAPPING SLEEVE & VALVE ASSEMBLY, 12 IN X 4 IN	1.00	EA		
670-3126	TAPPING SLEEVE & VALVE ASSEMBLY, 12 IN X 6 IN	1.00	EA		
670-3127	TAPPING SLEEVE & VALVE ASSEMBLY, 12 IN X 8 IN	1.00	EA		
670-3128	TAPPING SLEEVE & VALVE ASSEMBLY, 12 IN X 10 IN	1.00	EA		
670-3129	TAPPING SLEEVE & VALVE ASSEMBLY, 12 IN X 12 IN	1.00	EA		
670-3165	TAPPING SLEEVE & VALVE ASSEMBLY, 16 IN X 4 IN	1.00	EA		
670-3166	TAPPING SLEEVE & VALVE ASSEMBLY, 16 IN X 6 IN	1.00	EA		
670-3167	TAPPING SLEEVE & VALVE ASSEMBLY, 16 IN X 8 IN	1.00	EA		
670-3168	TAPPING SLEEVE & VALVE ASSEMBLY, 16 IN X 10 IN	1.00	EA		
670-3169	TAPPING SLEEVE & VALVE ASSEMBLY, 16 IN X 12 IN	1.00	EA		
670-3170	TAPPING SLEEVE & VALVE ASSEMBLY, 16 IN X 14 IN	1.00	EA		
670-3171	TAPPING SLEEVE & VALVE ASSEMBLY, 16 IN X 16 IN	1.00	EA		
670-3175	TAPPING SLEEVE & VALVE ASSEMBLY, 20 IN X 6 IN	1.00	EA		
670-3190	TAPPING SLEEVE & VALVE ASSEMBLY, 24 IN X 10 IN	1.00	EA		
670-4000	FIRE HYDRANT ASSEMBLY - complete including 6 in gate valve, valve box, hydrant lead pipe, restrainer	20.00	EA		
670-4450	CONCRETE VAULT -	1.00	EA		
670-4490	CONCRETE THRUST COLLAR -	1.00	EA		
670-4500	CONCRETE THRUST COLLAR, 6 IN PIPE OR SMALLER	4.00	EA		
670-4510	CONCRETE THRUST COLLAR, 8 IN PIPE	10.00	EA		
670-4515	CONCRETE THRUST COLLAR, 10 IN PIPE	4.00	EA		
670-4520	CONCRETE THRUST COLLAR, 12 IN PIPE	2.00	EA		
670-4530	CONCRETE THRUST COLLAR, 16 IN PIPE	2.00	EA		
670-4540	CONCRETE THRUST COLLAR, 20 IN PIPE	2.00	EA		
670-4848	TAPPING SLEEVE & VALVE ASSEMBLY, 48 IN X 48 IN	1.00	EA		
670-5000	WATER SERVICE LINE -	20.00	LF		
670-5010	WATER SERVICE LINE, 1 IN	80.00	LF		
670-5015	WATER SERVICE LINE, 1 1/2 IN	20.00	LF		
670-5020	WATER SERVICE LINE, 2 IN	20.00	LF		
670-5022	WATER SERVICE LINE, 2 IN PVC	20.00	LF		
670-5030	WATER SERVICE LINE, 3 IN	20.00	LF		
670-5040	WATER SERVICE LINE, 4 IN	20.00	LF		
670-5042	WATER SERVICE LINE, 4 IN PVC	20.00	LF		
670-5060	WATER SERVICE LINE, 6 IN	20.00	LF		
670-5620	WATER SERVICE LINE, 3/4 IN	100.00	LF		
670-5640	WATER SERVICE LINE, 1 1/2 IN	20.00	LF		
670-5700	ADJUST WATER SERVICE LINE TO GRADE	200.00	LF		
670-5750	LINE STOP -	8.00	EA		
670-5801	WATER METER -	1.00	EA		
670-5850	RELOCATE WATER SAMPLING STATION -	1.00	EA		
670-6050	TEMP WATER MAIN BYPASS SYS	1.00	LS		
670-7210	INSERTION VALVE, 4 IN	1.00	EA		
670-7215	INSERTION VALVE, 6 IN	10.00	EA		
670-7220	INSERTION VALVE, 8 IN	8.00	EA		
670-7225	INSERTION VALVE, 10 IN	2.00	EA		
670-7230	INSERTION VALVE, 12 IN	6.00	EA		
670-7240	INSERTION VALVE, 16 IN	1.00	EA		
670-7250	INSERTION VALVE, 20 IN	1.00	EA		
670-8050	DBL STRAP SADDLE -	1.00	EA		
670-9245	STEEL CASING, 12 IN	65.00	LF		
670-9250	STEEL CASING, 14 IN	20.00	LF		
670-9255	STEEL CASING, 16 IN	200.00	LF		
670-9260	STEEL CASING, 18 IN	20.00	LF		
670-9265	STEEL CASING, 20 IN	40.00	LF		
670-9270	STEEL CASING, 22 IN	20.00	LF		
670-9275	STEEL CASING, 24 IN	80.00	LF		
670-9280	STEEL CASING, 30 IN	40.00	LF		
670-9285	STEEL CASING, 36 IN	20.00	LF		
670-9290	STEEL CASING, 42 IN	20.00	LF		
670-9320	STEEL CASING, 72 IN	20.00	LF		

670-9325	HDPE CASING, 12 IN	20.00	LF		
670-9330	HDPE CASING, 14 IN	20.00	LF		
670-9340	HDPE CASING, 18 IN	20.00	LF		
670-9400	REPLACEMENT OF UNSUITABLE TRENCH MATERIAL	200.00	CY		
670-9500	PVC CASING, 2 IN	20.00	LF		
670-9505	PVC CASING, 4 IN	20.00	LF		
670-9600	WATER BOOST PUMP STATION	1.00	EA		
670-9709	RELOCATE EXIST AIR RELEASE VALVE AND MANHOLE	1.00	EA		
670-9710	RELOCATE EXIST FIRE HYDRANT	20.00	EA		
670-9712	RELOCATE EXISTING AIR RELEASE VALVE ASSEMBLY	1.00	EA		
670-9720	RELOCATE EXIST WATER VALVE, INCL BOX	2.00	EA		
670-9722	RELOCATE WATER MAIN ACCESS MANHOLE, TP 2, TELEMETRY COMPONENTS	1.00	EA		
670-9725	RELOCATE EXIST WATER METER IN NEW VAULT	1.00	EA		
670-9726	RELOCATE WATER VAULT INCL 6 IN FIRE CONNECTION	1.00	EA		
670-9727	RELOCATE 4 FT X 6 FT CONCRETE VAULT	1.00	EA		
670-9730	RELOCATE EXIST WATER METER, INCL BOX	20.00	EA		
670-9731	RELOCATE BACKFLOW PREVENTION ASSEMBLY	10.00	EA		
670-9734	RELOCATE EXISTING WATER METER, INCL BYPASS & VAULT -	1.00	EA		
670-9736	RELOCATE EXISTING WATER METER, INCL BYPASS AND VAULT, LESS THAN 4 INCH	1.00	EA		
670-9737	RELOCATE EXISTING WATER METER, INCL BYPASS AND VAULT, 4 INCH AND LARGER	1.00	EA		
670-9738	RELOCATE EXISTING WATER METER AND VAULT, 4 INCH AND LARGER	1.00	EA		
670-9740	RELOCATE EXISTING WATER METER AND BACKFLOW PREVENTER	4.00	EA		
670-9741	RELOCATE EXISTING BACKFLOW PREVENTION ASSEMBLY, 1 IN	1.00	EA		
670-9742	RELOCATE EXISTING BACKFLOW PREVENTION ASSEMBLY, 1 1/2IN	1.00	EA		
670-9743	RELOCATE EXISTING BACKFLOW PREVENTION ASSEMBLY, 2 IN	1.00	EA		
670-9800	ADJUST EXISTING WATER METER, INCLUDING VAULT	1.00	EA		
670-9805	ADJUST BLOWOFF ASSEMBLY	1.00	EA		
670-9807	ADJUST BACKFLOW PREVENTER BOX TO GRADE	1.00	EA		
670-9810	ADJUST WATER SERVICE LINE TO GRADE	100.00	LF		
670-9820	ADJUST WATER MAIN TO GRADE	80.00	LF		
670-9890	REMOVE EXIST WATER METER & VAULT, LESS THAN 4 IN	1.00	EA		
670-9892	REMOVE EXIST VAULT INCL 6 IN FIRE CONNECTION	1.00	EA		
670-9895	REMOVE EXIST WATER METER & VAULT, 4 IN OR LARGER	1.00	EA		
670-9897	REMOVE EXIST WATER METER 4 IN INCL VAULT, 8 IN FIRE CONNECTION	1.00	EA		
670-9898	REMOVE EXISTING 8 IN WATER METER AND VAULT	1.00	EA		
670-9900	REMOVE EXIST WATER METER, INCL BOX	4.00	EA		
670-9905	REMOVE EXIST AIR RELEASE VALVE ASSEMBLY	1.00	EA		
670-9910	REMOVE EXIST WATER VALVE, INCL BOX	2.00	EA		
670-9920	REMOVE EXISTING FIRE HYDRANT	1.00	EA		
670-9930	RELOCATION OF PRESSURE MONITORING SYSTEM	1.00	LS		
670-9970	RELOCATE PRESSURE REDUCING / SUSTAINING VALVE	1.00	EA		
700-6910	PERMANENT GRASSING	5.00	AC		
700-7000	AGRICULTURAL LIME	2.50	TN		
700-8000	FERTILIZER MIXED GRADE	2.00	TN		
700-8100	FERTILIZER NITROGEN CONTENT	72.00	LB		
700-9300	SOD	800.00	SY		
716-2000	EROSION CONTROL MATS, SLOPES	600.00	SY		
				TOTAL ESTIMATED BID PRICE	

Company Name: \_\_\_\_\_



## BID BOND

KNOW ALL PERSONS BY THESE PRESENTS: that we, the undersigned as Principal, and as Surety, are hereby held and firmly bound unto Fayette County, Georgia as OWNER in the penal sum of \_\_\_\_\_ Dollars (\$ \_\_\_\_\_ ) for the payment of which, well and truly to be made, we hereby jointly severally bind ourselves, successors and assigns.

Signed, this day of \_\_\_\_\_, 20\_\_\_\_. The condition of the above obligation is such that whereas the Principal has submitted to Fayette County, Georgia a certain BID, attached hereto and hereby made a part hereof to enter into a contract in writing, for: #2563-B, On-Call Annual Contract for Water Distribution and Stormwater Infrastructure.

NOW, THEREFORE,

(a) If said BID shall be rejected, or

(b) If said BID shall be accepted and the Principal shall execute and deliver a contract in the Form of Contract attached hereto (properly completed in accordance with said BID) and shall furnish a BOND for faithful performance of said contract, and for the payment of all persons performing labor furnishing materials in connection therewith, and shall in all other respects perform the agreement created by the acceptance of said BID, then this obligation shall be void, otherwise the same shall remain in force and effect; it being expressly understood and agreed that the liability of the Surety for any and all claims hereunder shall, in no event, exceed the penal amount of this obligation as herein stated.

The Surety, for value received, hereby stipulates and agrees that the obligations of said Surety and its BOND shall be in no way impaired or affected by any extensions of the time within which the OWNER may accept such BID; and said Surety does hereby waive notice of any such extension.

IN WITNESS WHEREOF, the Principal and the Surety have hereunto set their hands and seals, and such of them as are corporations have caused their corporate seals to be hereto affixed and these presents to be signed by their proper officers, the day and year first set forth above.

\_\_\_\_\_  
Principal L.S.

Surety: \_\_\_\_\_

By: \_\_\_\_\_

Name

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Title

Address: \_\_\_\_\_

\_\_\_\_\_

IMPORTANT: Surety companies executing BONDS must appear on the Treasury Department's most current list (Circular 570 as amended) and be authorized to transact business in the state where project is located.



## REFERENCES

### ITB 2563-B: On-Call Annual Contract for Water Distribution and Stormwater Infrastructure

Please list three (3) references for current or recent customers who can verify the quality of service your company provides. Projects of similar size and scope are preferable.

1. Government/Company Name \_\_\_\_\_

City & State \_\_\_\_\_

Work or Service Provided \_\_\_\_\_

Approximate Completion Date \_\_\_\_\_

Contact Person and Title \_\_\_\_\_

Phone \_\_\_\_\_ Email \_\_\_\_\_

2. Government/Company Name \_\_\_\_\_

City & State \_\_\_\_\_

Work or Service Provided \_\_\_\_\_

Approximate Completion Date \_\_\_\_\_

Contact Person and Title \_\_\_\_\_

Phone \_\_\_\_\_ Email \_\_\_\_\_

3. Government/Company Name \_\_\_\_\_

City & State \_\_\_\_\_

Work or Service Provided \_\_\_\_\_

Approximate Completion Date \_\_\_\_\_

Contact Person and Title \_\_\_\_\_

Phone \_\_\_\_\_ Email \_\_\_\_\_

**COMPANY NAME** \_\_\_\_\_

## EXCEPTIONS TO SPECIFICATIONS

**ITB 2563-B: On-Call Annual Contract for Water Distribution and Stormwater Infrastructure**

Please list below any exceptions or clarifications to the specifications of this bid. Explain any exceptions in full.

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

COMPANY NAME \_\_\_\_\_

## STATEMENT OF BIDDER'S QUALIFICATIONS

All questions must be answered and the data given must be clear and comprehensive. This statement must be notarized. If necessary, questions may be answered on separate attached sheets. The Bidder may submit any additional information desired. Attach all additional sheets to this statement. (Sample "Project Information Form" contained at the end of this Section.)

1. Name of Bidder: \_\_\_\_\_
2. Authorized Representative:  
Printed Name: \_\_\_\_\_  
Email Address: \_\_\_\_\_  
Telephone Number: \_\_\_\_\_  
Cellular Number: \_\_\_\_\_  
Signature: \_\_\_\_\_  
Title: \_\_\_\_\_
3. Permanent main office address, phone numbers, and email address of primary contact:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
4. When organized: \_\_\_\_\_
5. If a Corporation, where incorporated: \_\_\_\_\_
6. How many years have you been engaged in the contracting business under your present firm or trade name? \_\_\_\_\_
7. Contracts on hand. (Complete a "**Project Information Form**", for each Contract on hand.)
8. General description of type of work performed by your company:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
9. Have you ever failed to complete any work awarded to you? If so, where and why?  
\_\_\_\_\_  
\_\_\_\_\_
10. Have you ever defaulted on a contract? If so, where and why?  
\_\_\_\_\_  
\_\_\_\_\_

11. Have you ever refused to sign a Contract at the original bid? If so, where and why?

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12. Attach a list of the most important projects recently completed by your company which are similar in scope to this Project. (Complete a "**Project Information Form**", for each Project listed.) Fayette County reserves the right to use the information listed on the Project Information Form to check references.

13. Names, background and experience of the principal members of your organization, including officers:

Name	Position	Years of Experience
<hr/>	<hr/>	<hr/>
<hr/>	<hr/>	<hr/>
<hr/>	<hr/>	<hr/>
<hr/>	<hr/>	<hr/>

14. The undersigned hereby authorizes and requests any person, firm, or corporation to furnish any information requested by the Local Public Agency in verification of the recitals comprising this Statement of Bidder's Qualifications.

I, \_\_\_\_\_, certify that I am the \_\_\_\_\_ of the Bidder, and that the answers to the foregoing questions and statements contained therein are true and correct.

CONTRACTOR: \_\_\_\_\_  
(Company Name)

BY: \_\_\_\_\_  
(Authorized Signature)

NAME/TITLE: \_\_\_\_\_

DATE: \_\_\_\_\_

SUBSCRIBED AND SWORN BEFORE ME ON THIS \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

\_\_\_\_\_  
NOTARY PUBLIC

My Commission Expires: \_\_\_\_\_.



## BID BOND

KNOW ALL PERSONS BY THESE PRESENTS: that we, the undersigned as Principal, and as Surety, are hereby held and firmly bound unto Fayette County, Georgia as OWNER in the penal sum of \_\_\_\_\_ Dollars (\$ \_\_\_\_\_ ) for the payment of which, well and truly to be made, we hereby jointly severally bind ourselves, successors and assigns.

Signed, this day of \_\_\_\_\_, 20\_\_\_\_. The condition of the above obligation is such that whereas the Principal has submitted to Fayette County, Georgia a certain BID, attached hereto and hereby made a part hereof to enter into a contract in writing, for: #2563-B, On-Call Annual Contract for Water Distribution and Stormwater Infrastructure.

NOW, THEREFORE,

(a) If said BID shall be rejected, or

(b) If said BID shall be accepted and the Principal shall execute and deliver a contract in the Form of Contract attached hereto (properly completed in accordance with said BID) and shall furnish a BOND for faithful performance of said contract, and for the payment of all persons performing labor furnishing materials in connection therewith, and shall in all other respects perform the agreement created by the acceptance of said BID, then this obligation shall be void, otherwise the same shall remain in force and effect; it being expressly understood and agreed that the liability of the Surety for any and all claims hereunder shall, in no event, exceed the penal amount of this obligation as herein stated.

The Surety, for value received, hereby stipulates and agrees that the obligations of said Surety and its BOND shall be in no way impaired or affected by any extensions of the time within which the OWNER may accept such BID; and said Surety does hereby waive notice of any such extension.

IN WITNESS WHEREOF, the Principal and the Surety have hereunto set their hands and seals, and such of them as are corporations have caused their corporate seals to be hereto affixed and these presents to be signed by their proper officers, the day and year first set forth above.

\_\_\_\_\_  
Principal L.S.

Surety: \_\_\_\_\_

By: \_\_\_\_\_

Name

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Title

Address: \_\_\_\_\_

\_\_\_\_\_

IMPORTANT: Surety companies executing BONDS must appear on the Treasury Department's most current list (Circular 570 as amended) and be authorized to transact business in the state where project is located.

## GENERAL TERMS AND CONDITIONS

### ITB 2563-B: ON-CALL ANNUAL CONTRACT FOR WATER DISTRIBUTION AND STORMWATER INFRASTRUCTURE

1. **Definitions:** The term “contractor” as used herein and elsewhere in these Terms and Conditions shall be used synonymously with the term “successful bidder.” The term “County” shall mean Fayette County, Georgia.
2. **Bid is Offer to Contract:** Each bid constitutes an offer to become legally bound to a contract with the County, incorporating the Invitation to Bid and the bidder’s bid. The binding offer includes compliance with all terms, conditions, special conditions, specifications, and requirements stated in the Invitation to Bid, except to the extent that a bidder takes written exception to such provisions. All such terms, conditions, special conditions, specifications, and requirements will form the basis of the contract. The bidder should take care to answer all questions and provide all requested information, and to note any exceptions in the bid submission. Failure to observe any of the instructions or conditions in this invitation to bid may result in rejection of the bid.
3. **Binding Offer:** To allow sufficient time for a contract to be awarded, each bid shall constitute a firm offer that is binding for ninety (90) days from the date of the bid opening until the date of contract award, unless the bidder takes exception to this provision in writing.
4. **Bidder’s Questions:** –As appropriate, the County will post answers to questions and/or other information concerning the Invitation to Bid in the form of an addendum on the County’s website at [www.fayettecountyga.gov](http://www.fayettecountyga.gov). It is the responsibility of the prospective bidder to check the website for any addenda issued for this invitation to bid.
5. **References:** Include with your bid a list of three (3) jobs that your company has done that are of the same or similar nature to the work described in this invitation to bid on the form provided. Include all information as requested on the form.
6. **Bid Submission:** Submit your bid, along with any addenda issued by the County, in a sealed opaque envelope. Mail or deliver one (1) original unbound bid, signed in ink by a company official authorized to make a legal and binding offer, and one (1) copy on a flash drive, to:

Fayette County Government  
Purchasing Department  
140 Stonewall Avenue West, Suite 204  
Fayetteville, GA 30214

Bid Number: 2563-B

Bid Name: On-Call Annual Contract for Water Distribution and Stormwater  
Infrastructure

Also show your company name on the envelope. You may submit sealed bids in person, by U.S. mail, or by a commercial carrier. Do not submit bids by facsimile, e-mail, or other electronic means. Once submitted, all bids become the property of Fayette County.



- 7. Bid Preparation Costs:** The bidder shall bear all costs associated with preparing the bid.
- 8. Late Bids:** Bids not received by the time and date of the scheduled bid opening will not be considered unless the delay is a result of action or inaction by the County.
- 9. More than One Bid:** Do not submit alternate bids or options, unless requested or authorized by the County in the Invitation to Bid. If a responder submits more than one bid without being requested or authorized to do so, the County may disqualify the bids from that responder, at the County's option.
- 10. Bid Corrections or Withdrawals:** The bidder may correct a mistake, or withdraw a bid, before the bid opening by sending written notification to the Director of Purchasing. Bids may be withdrawn after the bid opening only with written authorization from the Director of Purchasing.
- 11. Defects or Irregularities in Bids:** The County reserves the right to waive any defect or irregularity in any bid received. In case of a discrepancy between unit prices and extended prices, the unit price will govern unless the facts or other considerations indicate another basis for correction of the discrepancy.
- 12. Prices Held Firm:** Prices quoted shall be firm for the period of the contract, unless otherwise specified in the bid. All prices for commodities, supplies, equipment, or other products shall be quoted FOB Destination, Fayette County or job site.
- 13. Quantities are Estimates:** Quantities listed herein are estimates for the period specified. This will be an indefinite-quantity type contract, with County requirements fulfilled on an "as ordered" basis. No guarantee to purchase the amounts shown is intended or implied. The County reserves the right to order larger or smaller quantities at the prices stated in the bid of the successful bidder.
- 14. Brand Name:** If items in this invitation for bid have been identified, described, or referenced by a brand name or trade name description, such identification is intended to be descriptive, but not restrictive and is to indicate the quality and characteristics of products that may be offered. Alternative products may be considered for award if clearly identified in the bid. Items offered must meet required specifications and must be of a quality which will adequately serve the use and purpose for which intended.
- 15. Bidder Substitutions:** Bidders offering substitutions or deviations from specifications stated in the invitation to bid, shall list such substitutions or deviations on the "Exceptions to Specifications" sheet provided, or on a separate sheet to be submitted with the bid. The absence of such list shall indicate that the bidder has taken no exception to the specifications. The evaluation of bids and the determination as to equality and acceptability of products or services offered shall be the responsibility of the County.
- 16. Samples:** When the County requires samples as part of the bid and vendor selection process, bidders must provide requested samples within the time allotted, and at no cost to the County unless otherwise specified. Any goods provided under contract shall conform to the sample



submitted. The County will return samples only at the bidder's request, and at the bidder's expense, if they are not destroyed by testing.

- 17. Non-Collusion:** By responding to this invitation to bid, the bidder represents that the bid is not made in connection with any competing bidder, supplier, or service provider submitting a separate response to this invitation to bid and is in all respects fair and without collusion or fraud.
- 18. Bid Evaluation:** Award will be made to the lowest responsive, responsible bidder, taking into consideration payment terms, vendor qualifications and experience, quality, references, any exceptions listed, and/or other factors deemed relevant in making the award. The County may make such investigation as it deems necessary to determine the ability of the bidder to perform, and the bidder shall furnish to the County all information and data for this purpose as the County may request. The County reserves the right to reject any bid item, any bid, or all bids, and to re-advertise for bids.
- 19. Secondary Contracts:** The County may award a secondary contract to the responsive, responsible bidder making the second lowest bid. Considerations in selecting a secondary contract will be the same as for the primary contract.
- 20. Payment Terms and Discounts:** The County's standard payment terms are Net 30. Any deviation from standard payment terms must be specified in the resulting contract, and both parties must agree on such deviation. Cash discounts offered will be a consideration in awarding the bid, but only if they give the County at least 15 days from receipt of invoice to pay. For taking discounts, time will be computed from the date of invoice acceptance by the County, or the date a correct invoice is received, whichever is the later date. Payment is deemed made, for the purpose of earning the discount, on the date of the check.
- 21. Trade Secrets – Confidentiality:** If any person or entity submits a bid or proposal that contains trade secrets, an affidavit shall be included with the bid or proposal. The affidavit shall declare the specific included information which constitutes trade secrets. Any trade secrets must be either (1) placed in a separate envelope, clearly identified and marked as such, or (2) at a minimum, marked in the affidavit or an attached document explaining exactly where such information is, and otherwise marked, highlighted, or made plainly visible. See O.C.G.A. § 50-18-72 (A)(34).
- 22. Trade Secrets – Internal Use:** In submitting a bid, the bidder agrees that the County may reveal any trade secret materials contained in the bid to all county staff and officials involved in the selection process, and to any outside consultant or other third parties who may assist in the selection process. The bidder agrees to hold harmless the County and each of its officers, employees, and agents from all costs, damages, and expenses incurred in connection with refusing to disclose any material which the bidder has designated as a trade secret.
- 23. Ethics – Disclosure of Relationships:** Before a proposed contract in excess of \$10,000.00 is recommended for award to the Board of Commissioners or the County Administrator, or before the County renews, extends, or otherwise modifies a contract after it has been awarded, the contractor must disclose certain relationships with any County Commissioner or County Official, or their spouse, mother, father, grandparent, brother, sister, son or daughter related by blood,

adoption, or marriage (including in-laws). A relationship that must be reported exists if any of these individuals is a director, officer, partner, or employee, or has a substantial financial interest in the business, as described in Fayette County Ordinance Chapter 2, Article IV, Division 3 (Code of Ethics).

If such relationship exists between your company and any individual mentioned above, relevant information must be presented in the form of a written letter to the Director of Purchasing. You must include the letter with any bid, proposal, or price quote you submit to the Purchasing Department.

In the event that a contractor fails to comply with this requirement, the County will take action as appropriate to the situation, which may include actions up to and including rejection of the bid or offer, cancellation of the contract in question, or debarment or suspension from award of a county contract for a period of up to three years.

- 24. Contract Execution & Notice to Proceed:** After the Board of Commissioners makes an award, all required documents are received by the County, and the contract is fully executed with signature of both parties, the County will issue a written Notice to Proceed. The County shall not be liable for payment of any work done or any costs incurred by any bidder prior to the County issuing the Notice to Proceed.
- 25. Term of Contract:** The term of this agreement shall begin July 1, 2025, and continue for a period of one year through June 30, 2026. Thereafter, this agreement may be renewed by the County for two additional one-year renewal terms (each a "Renewal Term" and together with the Initial Term, the "Term"), which renewal will be by letter or other written correspondence from the County to the contractor ninety (90) days prior to expiration of the Initial Term or the then-current Renewal Term. If the County fails to provide notice of renewal, this Agreement will terminate at the end of the Initial Term or the then-current Renewal Term. This agreement is subject to the multi-year contractual provisions of O.C.G.A. 36-60-13(a).
- 26. Unavailability of Funds:** This contract will terminate immediately and absolutely at such time as appropriated and otherwise unobligated funds are no longer available to satisfy the obligations of the County under the contract.
- 27. Insurance:** The successful bidder shall procure and maintain the following insurance, to be in effect throughout the term of the contract, in at least the amounts and limits as follows:
- a. **General Liability Insurance:** \$1,000,000 combined single limit per occurrence, including bodily and personal injury, destruction of property, and contractual liability.
  - b. **Automobile Liability Insurance:** \$1,000,000 combined single limit each occurrence, including bodily injury and property damage liability.
  - c. **Worker's Compensation & Employer's Liability Insurance:** Workers Compensation as required by Georgia statute.



Before a contract with the successful bidder is executed, the successful bidder shall provide Certificates of Insurance for all required coverage. The successful offeror can provide the Certificate of Insurance after award of the contract but must be provided prior to execution of the contract document by both parties. The certificate shall list an additional insured as follows:

Fayette County, Georgia  
140 Stonewall Avenue West  
Fayetteville, GA 30214

- 28. Bid Bond:** You must include a bid bond with your bid, equal to five percent (5%) of the total amount bid. Bid bonds shall be provided by a surety which appears on Georgia's list of approved sureties administered by the State Insurance Commissioner, or the U.S. Treasury's list of approved bond sureties (Circular 570).
- 29. Performance and Payment Bonds:** Prior to execution of a contract, the successful bidder shall submit performance and payment bonds each equal to 100 percent of the contract value, provided by a surety which appears on Georgia's list of approved sureties administered by the State Insurance Commissioner, or the U.S. Treasury's list of approved bond sureties (Circular 570).
- 30. Unauthorized Performance:** The County will not compensate the contractor for work performed unless the work is authorized under the contract, as initially executed, or as amended.
- 31. Assignment of Contract:** Assignment of any contract resulting from this Invitation to Bid will not be authorized, except with express written authorization from the County.
- 32. Indemnification:** The contractor shall indemnify and save the County and all its officers, agents, and employees harmless from all suits, actions, or other claims of any character, name and description brought for or on account of any damages, losses, or expenses to the extent caused by or resulting from the negligence, recklessness, or intentionally wrongful conduct of the contractor or other persons employed or utilized by the contractor in the performance of the contract. The contractor shall pay any judgment with cost which may be obtained against the County growing out of such damages, losses, or expenses.
- 33. Severability:** The invalidity of one or more of the phrases, sentences, clauses, or sections contained in the contract shall not affect the validity of the remaining portion of the contract. If any provision of the contract is held to be unenforceable, then both parties shall be relieved of all obligations arising under such provision to the extent that the provision is unenforceable. In such case, the contract shall be deemed amended to the extent necessary to make it enforceable while preserving its intent.
- 34. Delivery Failures:** If the contractor fails to deliver contracted goods or services within the time specified in the contract or fails to replace rejected items in a timely manner, the County shall have authority to make open-market purchases of comparable goods or services. The County

shall have the right to invoice the contractor for any excess expenses incurred or deduct such amount from monies owed the contractor. Such purchases shall be deducted from contracted quantities.

- 35. Substitution of Contracted Items:** The contractor shall be obligated to deliver products awarded in this contract in accordance with terms and conditions specified herein. If a contractor is unable to deliver the products under the contract, it shall be the contractor's responsibility to obtain prior approval of the ordering agency to deliver an acceptable substitute at the same price quoted in the contractor's original bid. In the event any contractor consistently needs to substitute or refuses to substitute products, the County reserves the right to terminate the contract or invoke the "Delivery Failures" clause stated herein.
- 36. Inspection and Acceptance of Deliveries:** The County reserves the right to inspect all goods and products delivered. The County will decide whether to accept or reject items delivered. The inspection shall be conclusive except with respect to latent defects, fraud, or such gross mistakes as shall amount to fraud. Final inspection resulting in acceptance or rejection of the products will be made as soon as practicable, but failure to inspect shall not be construed as a waiver by the County to claim reimbursement or damages for such products which are later found to be in non-conformance with specifications. Should public necessity demand it, the County reserves the right to use or consume articles delivered which are substandard in quality, subject to an adjustment in price to be determined by the Purchasing Director.
- 37. Termination for Cause:** The County may terminate the contract for cause by sending written notice to the contractor of the contractor's default in the performance of any term of this agreement. As appropriate, the County will compensate the contractor for completed performance, and for any partially completed performance as determined by the County to be adequately performed. Termination shall be without prejudice to any of the County's rights or remedies by law.
- 38. Termination for Convenience:** The County may terminate the contract for its convenience at any time with 10 days' written notice to the contractor. In the event of termination for convenience, the County will pay the contractor for services performed. The County will compensate partially completed performance based upon a signed statement of completion submitted by the contractor, which shall itemize each element of performance completed.
- 39. Force Majeure:** Neither party shall be deemed to be in breach of the contract to the extent that performance of its obligations is delayed, restricted, or prevented by reason of any act of God, natural disaster, act of government, or any other act or condition beyond the reasonable control of the party in question.
- 40. Governing Law:** This agreement shall be governed in accordance with the laws of the State of Georgia. The parties agree to submit to the jurisdiction in Georgia, and further agree that any cause of action arising under this agreement shall be required to be brought in the appropriate venue in Fayette County, Georgia.



**TERMS AND CONDITIONS**  
**ITB 2563-B: ON-CALL ANNUAL CONTRACT FOR WATER DISTRIBUTION AND STORMWATER**  
**INFRASTRUCTURE**

**Definitions –**

- a. **Bidder:** A company or individual who submits a bid in response to this Invitation to Bid.
- b. **Successful Bidder:** The company or individual that is awarded a contract.
- c. **Change Order:** A written order to the Contractor authorizing an addition, deletion, or revision in the work within the general scope of the Task Order or authorizing an adjustment in the Task Order price.
- d. **Contractor:** The Successful Bidder, upon execution of the contract.
- e. **Subcontractor:** Any individual, firm, corporation, or combination thereof to which the Contractor sublets any part of the Contract.
- f. **Owner:** Fayette County, Georgia.

- A. Reference and Incorporation of GDOT Specifications** - Unless noted otherwise in this Invitation to Bid (ITB), the Georgia Department of Transportation's Standard Specifications Construction of Transportation Systems, most recent edition is incorporated by reference into the Project Manual and contract documents. All work shall be performed in accordance with the GDOT specifications, and all pay items shall be measured and evaluated in accordance with the specifications. They shall supersede all other specifications unless more stringent requirements are listed. In the event of conflict between the GDOT standard specifications and this Invitation to Bid or resulting contract, the Invitation to Bid or contract shall prevail.

It is the responsibility of the Contractor to be familiar with these specifications before bidding and to adhere to them during construction. Fayette County is Owner of the project and shall serve as the administrator of the Contract in lieu of "The Department". Copies of the documents can be obtained from the GDOT website.

- B. Prequalification of Bidders – The Prime Contractor shall be GDOT prequalified in Work Class 670 and 500 or 550** and provide at least two (2) successfully completed projects of similar scope and size within the past five (5) years. Fayette County reserves the right to consider a contractor's past performance when determining if a bid is responsive and responsible. The contractor shall not assign or subcontract the whole or any part of this contract without the County's prior written consent.
- C. Preparation of Task Order Proposal and Assignment** – Work to be performed under this contract will be assigned on an as needed basis as determined by the Owner. The Owner will request a proposal from the Contractor to provide services. The Contractor shall provide a draft Project Task Order to the Owner within 10 business days of the initial request on the form provided in **EXHIBIT "A"**. The Contractor shall submit its proposed project task order to the Owner for review based on unit prices stipulated in the bid Schedule of Values.



For work designated as urgent, the Owner will request a proposal from the Contractor to provide prompt response services including mobilization. The Contractor shall provide a draft Project Task Order to the Owner within 24 hours or less of the initial request on the form provided in EXHIBIT "A". The contractor shall submit its proposed project task order to the Owner for review prior to or concurrently to the start of work.

- D. Changes to the Task Order** – The Owner may at any time as need arises, order changes within the scope of the Task Order without invalidating the Task Order. If such changes increase or decrease the amount due under the Task Order or in the time required for performance of the Task Order, an equitable adjustment shall be authorized by a Change Order executed by the Owner.
- E. Schedule** – The Contractor shall commence work within twenty (20) calendar days of the Contractor receiving a Task Order Notice to Proceed (NTP) and shall be substantially complete as stated in Project Task Orders.
- F. Work Hours** – Unless written approval is provided by the County, the Contractor shall not work on Sunday's, County holidays, or between the hours of 6 p.m. and 7 a.m. The County Holiday Schedule is available on the County's website: [https://fayettecountyga.gov/information/county\\_holidays.htm](https://fayettecountyga.gov/information/county_holidays.htm)
- G. Interruption of Water Service and Shut-offs** – The Owner will handle the work of the operation of gate valves and other control without cost to the Contractor. The Owner reserves the right to choose the most convenient time to interrupt the water services and water treatment plant operations in order to complete any water line tie-ins. No compensation will be made to the Contractor for any delays caused by the Owners choice of timing for tie-in procedures. The Contractor shall notify the Owner 72 hours prior to any needs for interruption of water service. Whenever a fire hydrant is to be blocked or shut off, the Contractor must give written notice to the respective jurisdictional Fire Department or Owner and obtain written concurrence.
- H. OSHA** – Adhere to the Occupational Safety and Health Administration's (OSHA) excavation standards, *29 Code of Federal Regulations (CFR) Part 1926, Subpart P* for excavation and trenching operations.
- I. Toilet Facilities** - Provide toilet facilities that meet local sanitary codes. Provide consumable and non-consumable goods (toilet paper, paper towels, hand soap) for the life of the project.
- J. Contractor Staging** – No staging area is provided by Fayette County for the project beyond the existing Right of Way. Contractor staging shall not interfere with traffic on County roads. When or where any direct or indirect damage or injury is done to public or private property by or on account of any act, omission, neglect, or misconduct in the execution of the Work, or in consequence of the nonexecution thereof by the Contractor, the Contractor shall restore, at his own expense, such property to a condition similar or equal to that existing before such damage or injury was done, by repairing, rebuilding or otherwise restoring as may be

directed, or shall make good such damage or injury in an acceptable manner.

**K. Contractor Supervision and Work Coordination** – The Contractor shall supervise and direct the work. He/she shall be solely responsible for the means, methods, techniques, sequences, and procedures of construction, including traffic control. The Contractor shall employ and maintain onsite a qualified supervisor or superintendent who will be designated in writing by the Contractor as the Contractor's site representative. The supervisor shall have full authority to act on behalf of the Contractor and all communications given to the supervisor shall be as binding as if given to the Contractor. The supervisor shall always be present on the site as required to perform adequate supervision and coordination of the work.

**L. Workmanship Guarantee** – The Contractor shall warranty and guarantee all materials supplied, equipment furnished, and work performed to be free from defects (resulting from faulty materials supplied or workmanship) for a period of twenty-four (24) months from the date of substantial completion as stated on the project Task Order.

The Owner shall give notice of observed defects with reasonable promptness and the Contractor shall have 45 calendar days to address the issue(s). If the Contractor fails to make such repairs, adjustments, or other work that may be made necessary by such defects, the Owner may do so and charge the Contractor the cost thereby incurred. If different guarantees or warranties are required in the technical specifications for specific items, then the more stringent (i.e., longer) apply.

**M. As-Built Survey** - The Contractor shall provide an as-built survey and CAD files. The survey shall be stamped by a third-party Registered Land Surveyor (RLS) licensed in the state of Georgia and include, at a minimum, the applicable information:

1. Extent, size, and material list of new waterline and associated appurtenances;
2. Up- and down-gradient invert elevations, culvert size, length, and slope;
3. Inlet and Catch Basin invert elevations;
4. Extent and elevation of Rip Rap; and
5. Paving and concrete limits

In addition to the above, the Contractor shall meet and satisfy all applicable GDOT specifications for the installation of water distribution infrastructure, stormwater infrastructure and concrete structures. In the event of a conflict, the more stringent standard shall apply.

**N. Section 105.06 Cooperation with Utilities** – The County will notify all utility companies or other parties affected of Award of the Contract and will assist the Contractor in arranging for all necessary adjustment or relocation within or adjacent to the limits of construction. It shall be the Contractor's responsibility to plan with each utility owner a schedule of operations which will clearly set forth at which stage of the Contractor's operations the utility owner will be required to perform adjustment and relocation work.



Before beginning any mechanized boring, trenching, or digging the contractor shall call Georgia 811 at least 72-hours in advance excluding weekends and holidays. Calls made after 4:30pm count as the next day.

- O. Section 106 Control of Materials** - The materials used in the work shall meet all quality requirements of the Contract. Materials will not be considered as finally accepted until all tests, including any to be taken from the finished Work have been completed and evaluated. For Work performed under Section 812 – Backfill Materials, all materials shall be inspected and tested by the Contractor before incorporation into the Work. The Contractor’s third-party Quality Control Technician shall sample and test all quality control samples. The Contractor’s quality control tests may be used as acceptance tests at the discretion of the County or Engineer.
- P. 108.08 Failure or Delay in Completing Work on Time** - Time is an essential element of the Contract, and any delay in the prosecution of The Work may inconvenience the public, obstruct traffic, or interfere with business. In addition to the aforementioned inconveniences, any delay in completion of The Work will always increase the cost of engineering. For this reason, it is important that The Work be pressed vigorously to completion. Should the Contractor or, in case of default, the Surety fail to complete the Work within the time stipulated in the Contract or within such extra time that may be allowed, charges shall be assessed against any money due or that may become due the Contractor in accordance with the following schedule:

Task Order Amount		Daily Charges
For More Than	To and Including	Calendar Day or Completion Date
\$---	\$50,000	\$950
\$50,000	\$250,000	\$960
\$250,000	\$500,000	\$1,240
\$500,000	\$2,500,000	\$1,660
\$2,500,000	\$5,000,000	\$2,700
\$5,000,000	\$10,000,000	\$3,400

These fixed liquidated damages are not established as a penalty but are calculated and agreed upon in advance by the County and the Contractor due the uncertainty and impossibility of making a determination as to the actual and consequential damages which are incurred by the County and the general public as a result of the failure on the part of the Contractor to complete The Work on time.

In addition to the above, the Contractor shall meet and satisfy all applicable GDOT specifications as written in Section 108 Prosecution and Progress. In the event of a conflict the more stringent shall apply.



- Q. Section 109 Measurement and Payment** – This is a unit price contract, where payment will be based on the actual quantities of work completed per unit of measurement. At the end of each calendar month, or the completion of a Project Task Order, the total value of items complete in place will be estimated by the County and certified for payment. Such estimate is approximate only and may not necessarily be based on detailed measurements. Value will be computed on the basis of Contract Item Unit Prices or on percentage of completion of lump sum Items. The Contractor shall submit for review and approval, a pay application based on the Schedule of Values unit prices on the County provided template.
- R. Section 150 Traffic Control** - The Contractor shall prepare and submit a Temporary Traffic Control Plan for review and approval by Fayette County prior to mobilization, unless classified as a prompt response Task Order. The Plan shall include information on detours, lane closures, traffic phasing, access to private property, etc. All signs and pavement markings shall be in accordance with the MUTCD.
- S. Section 670 Water Distribution System** - All Water System impacts shall be in strict accordance with GDOT Specification Section 670 or Fayette County Water System Standards and Specifications provided in **EXHIBIT "B"**. The more stringent requirements shall apply. The contractor performing the utility work shall be a licensed Utility Contractor in the state of Georgia.

STANDARDS AND SPECIFICATIONS  
MANUAL



FAYETTE COUNTY WATER SYSTEM  
245 MCDONOUGH ROAD  
FAYETTEVILLE, GEORGIA 30214

February 2024



## DEFINITIONS

"Department" - the individual, official, board, department or agency established and authorized by county, city and/or other political subdivision created by law to administer and enforce the provisions of the Plumbing Code, the Federal and State Safe Drinking Water Acts, and the Ordinances, Rules, Regulations, and Policies of Fayette County, in the state of Georgia.

"Authorized Representative" - any individual employed by the Fayette County Water System given direct authorization, from the Director of the Fayette County Water System to act as a department representative.

"Backflow" - a reverse flow in a water system from the normal or intended direction.

"Backflow Preventer (BFP)" - a device designed to prevent reverse flow in a water system. Specifically, the term should normally be used where backpressure-type backflow is implied.

"Branch Sewer" - a sewer which receives sewage from a relatively small area, and discharges into a main sewer.

"Contaminant" - means any physical, chemical, biological, or radiological substance or matter in water that could cause a public health hazard.

"Customer" - shall mean every person who is responsible for contracting (expressly or implicitly) with the Fayette County Water System in obtaining, having, or using water connections with, or water tap to, the water system of the Fayette County Water System and in obtaining, having, or using water and other related services furnished by the Fayette County Water System for the purpose of water supply through said system.

"Contractor" – any person or entity, including their agent or construction contractor, who wishes to replace or construct new water lines in FCWS service area.

"Drinking water" – water supplied for domestic use or human consumption, meeting the maximum contaminant levels established by the State.

"Easement" – shall mean an acquired legal right for the specific use of land owned by others.

"EPD" – shall mean the Environmental Protection Division of the Department of Natural Resources of the State of Georgia.

"FCWS" – Fayette County Water System.

"FRA" – Federal Railroad Administration

"GDOT" – Georgia Department of Transportation

"Industrial wastes" – shall mean the wastewater from industrial processes as distinct from domestic or sanitary wastes.

"Inspector" – an individual qualified in a vocation and authorized to make inspections, interpret codes, regulations, and procedures.

"Large stone" – Stone that is 2 in. or smaller in diameter.



"Large Diameter Meter" – meters greater than 2" (4", 6", 8", 10", 12")

"Main" – a pipe for delivering wastewater from a pumping station to its destination which may be a treatment plant or a higher point in the sewerage system.

"Main Sewer" – a sewer to which one or more branch sewers are tributary. Also called a Trunk Sewer.

"May" – is permissive.

"Person" – shall mean any individual, firm, company, association, society, corporation, or group.

"Pollutant" – any substance that, if introduced into the potable water system, could be objectionable but could not create a health hazard.

"Pollution" – the man-made or man-induced alteration of the chemical, physical, biological, and radiological integrity of water.

"Potable Water" – any water that, according to recognized standards, is safe for human consumption.

"Privately Owned Public Water System" – any system to provide piped water to the public for human consumption. Such term includes any collection, treatment, storage, and distribution facility, designed to serve 15 or more units from any source other than Fayette County, being owned and operated by any entity other than Fayette County.

"Professional Engineer" – a person registered to practice professional engineering in the State of Georgia in accordance with the provisions of the Act governing the practice of professional engineering in Georgia.

"Public Water System" – a water system (including but not limited to supply, treatment, transmission and distribution facilities and appurtenances) operated as a Public Utility that supplies potable water to the service-connection of the Consumer's water system. Herein defined, as the Fayette County Water System potable water supply/system as operated by the Fayette County Water System.

"Representative" – a person authorized to represent the Superintendent of the Fayette County Water System.

"Sanitary Sewer" – a sewer pipe which carries sewage and to which storm, surface, and ground waters are not intentionally admitted.

"Service-Connection" – the point of delivery of water to a premises: the normal location of the meter. It is the end of the water purveyor's jurisdiction and the beginning of the Plumbing Official's and the Consumer's, and defined as follows:

Dedicated – a single service connection that is designated for one use only (i.e. domestic, fire protection, or irrigation).

Combination – a single service connection that is designated for more than one use (i.e. domestic and fire protection).

"Sewage" – is the spent water of a community. (See Wastewater)

"Sewerage" –shall mean all facilities for collecting, pumping, treating, and disposing of sewage.

"Sewer" – a gravity flow pipe or conduit, normally not flowing full, for carrying storm water, sewage and other waste liquids.

"Sewer or Service Line" – a pipe conveying sewage from a single building to a common sewer or point of immediate disposal.

"Shall" – is mandatory.

"Spring" – a surface water where water naturally issues forth for the first time from rock or soil onto the land or into a body of water.

"Standard methods" – "Standard Methods for the Examination of Water." As published jointly by the American Public Health Association, the American Water Works Association, and the Water Pollution Control Federation or with any other analytical procedure approved by the Commission.

"Storm drain" – shall mean a drain or sewer for conveying water, groundwater, subsurface water, or unpolluted water from any source and excluding sewage and industrial wastes other than unpolluted cooling water. (See Storm Sewer)

"Storm Sewer" – a sewer which carries storm water and surface water, street wash and other wash waters, or drainage, but excludes sewage and industrial wastes.

"Storm water" – any flow occurring during or following any form of natural precipitation and resulting therefrom.

"Suitable material" – clean dirt free of rock and debris.

"Surface water" – includes all rivers, streams, branches, creeks, ponds, tributary streams, and drainage basins, natural lakes, artificial reservoirs or impoundments.

"System" – Fayette County Water System.

"Warranty" – cost and replacement due to workmanship and material defect

"Wastewater" – shall mean the spent water of a community. From the standpoint of source, it may be a combination of the liquid and water carried wastes from residences, commercial storm water that may be present. (See Sewerage)

"Water Well" – any excavation that is cored, bored, drilled, jetted, dug, or otherwise constructed for the purpose of location, testing, or withdrawing groundwater.



## **1. WATER SYSTEM DESIGN SPECIFICATIONS**

### **1.1 General Design Requirements**

- 1.1.1 The following shall establish the general design requirements for publicly owned.
- 1.1.2 Connections to existing mains, other than service lines, will require a tee with three valves – nipple length for tie-in with sleeves shall be three times the pipe diameter.
- 1.1.3 All water mains shall be minimum of 8 in. diameter class 350 ductile iron.
- 1.1.4 Dead-end lines shall be minimized by looping of all mains when possible and provided with a hydrant.
- 1.1.5 Minimum horizontal distance between water lines and sanitary sewer lines, storm sewer lines, and sewer manholes shall be 10 ft. radius. Minimum distance for all other underground utilities or structures shall be 24 in. Vertical separation shall be at least 24 in. between the bottom of the water main and the top of the sanitary sewer main. At crossings, the water pipe should be located so both joints are as far from the sanitary sewer line as possible. Casing shall be provided per FCWS direction at perpendicular crossing of sanitary sewer and extending 24 in. outside circumference of sanitary sewer.
- 1.1.6 Unless otherwise approved by FCWS, all creek crossings shall be constructed by encasing a class 350 ductile iron water main in steel casing (reference section 1.2.2.3) with restrained joint pipe and stainless-steel casing spacers and sufficiently blocking each end of the casing to secure its position. The minimum depth from the existing creek bed to the top of the casing pipe shall be 2 ft. Valves should be at both ends of the crossing and easily accessible (not subject to flooding). Taps should be provided on each end of testing and leak determination.
- 1.1.7 All crossings of existing and proposed paved streets shall be by the bore and jack method, unless approved otherwise prior to installation. A county road shall be open cut only after written permission has been received from Fayette County Public Works. All pipe placed under county roads or underneath new roads shall be class 350 ductile joint pipe encased in steel casing with restrained joint pipe and stainless-steel casing spacers as determined by FCWS. All pipe under roads shall have a minimum cover of 4 ft. from finish grade to top of pipe.
- 1.1.8 Crossings of driveways shall be by means of uncased bore or open cut as may be determined by the Water System. Pipe over 10 in. in diameter shall be open cut unless casing is provided with the bore or approved otherwise prior to installation. Where open cut method is allowed, existing concrete and asphalt driveways shall be sawed and the debris removed prior to trenching. When pipe installation is complete, the driveway shall be backfilled, compacted to 98% standard proctor density, and damaged area replaced with material consistent with the existing driveway within five working days. No service taps to be made under driveways. Driveway installation shall be in



accordance with these standards. No service shall be left under a driveway. New service shall be installed and old service and tapping saddle shall be removed with tap covered with stainless steel full circle repair clamp.

- 1.1.9 Tees, crosses, valves, and other necessary fittings shall be provided at all road intersections to provide for future expansion. All tees and crosses shall be accompanied by equivalent sized valve. Water main shall be extended minimum of 4 ft beyond the radius of the intersection.
- 1.1.10 Magnetic detection tape shall be placed directly over all nonmetal pipe at a maximum depth of 2 ft. from finished grade. Tracing wire shall be in direct contact with the piping and must be accessible for locating purposes.
- 1.1.11 Fire hydrants spacing shall be at intervals specified in Fayette County Code Section 12-90 & 12-91. Minimum valve opening shall be 5 ¼ in. Minimum height of hydrant flange from final grade is between 2 in. – 6 in.
- 1.1.12 Fire hydrants are to be located on the right-of-way line and shall have a gate valve installed between the main and the fire hydrant.
- 1.1.13 FCWS requires installation of M&H 129 iHydrants as specified. Generally, one iHydrant for each non-residential development and one per every 50 lots of a residential development.
- 1.1.14 All fire service lines and connections with private fire hydrants, hand hose connections, sprinkler heads, and any other supply including domestic lines shall be required to be metered and have an approved backflow prevention assembly in accordance with paragraph 1.2.21 of these standards.
- 1.1.15 Shutoff valves shall be located along the main line at intervals not greater than every 1200 L.F. Less separation may be required by FCWS.
- 1.1.16 All fittings (valves, tees, crosses, bends, and reducers) shall be restrained in a method approved by FCWS. All fittings shall have a minimum of one full joint of D.I.P. extending out of each side of the fitting.
- 1.1.17 Each valve 2 in. or larger, except fire hydrant valves, shall have a valve marker 4 in. square by 4 ft. long with four #2 reinforcing rods placed directly behind the valve. The marker shall be set to leave 18 in. exposed above grade with a "V" stamped into the concrete. A "V" notch should also be cut into the curb and painted blue.
- 1.1.18 Each underground valve shall include a valve box placed vertically to allow operation of the valve. Valve boxes not located in roadways shall have a pre-cast concrete collar placed level around the top for protection.
- 1.1.19 Service lines shall be provided from the water main to each residential lot in the proposed development. Lines shall normally be 1 in. minimum diameter and furnished with full port curb stops, corporation stops, and meter boxes. Meter boxes shall be placed as directed by FCWS or as directed by GA DOT and installed on a 6 in. gravel

base. Double services may be accepted if approved by FCWS.

- 1.1.20 Water services for commercial, industrial, or multi-family residential shall be adequate to provide for the specific needs of the installation including adequate fire protection. Backflow prevention devices shall be in accordance with FCWS requirements.
- 1.1.21 All multi-tenant developments shall provide signed documentation in accordance with the state of Georgia Statute 12-5-180.1.
- 1.1.22 The location of service laterals and meters shall be indicated precisely on drawings.
- 1.1.23 All temporary and interim water connections connected to FCWS water sources shall be approved.
- 1.1.24 When roadways and streets are proposed to be constructed over existing water lines, it is required to relocate the water main and install steel casing pipe.
- 1.1.25 The Contractor shall ensure that no water infrastructure or connecting water lines are within proximity of an abandoned landfill site or any other waste disposal site per state of Georgia Rule 391-3-5-.04.

## **1.2 Materials of Construction**

- 1.2.1 General Material Requirements All materials shall be domestically manufactured and specified herein or approved equal.

Any pipe, solder, or flux used in the installation or repair of water service lines or water mains must be lead free. Pipe and fittings must not contain more than 0.25 percent lead on wetted surface.

### **1.2.2 Pipe**

- 1.2.2.1 Ductile Iron Pipe Pipe shall be Pressure Class 350 with slip joints conforming to ANSI specifications A-21.5, latest designation and must meet ANSI/AWWA Standard C151. Pipe shall have an exterior coating of coal tar varnish and an interior cement mortar lining with bituminous seal coat conforming to ANSI A-21.4, latest designation. The seal coat for the lining shall not impair the potability or impart color, taste, odor, phenols, toxicity, caustic alkalinity, or have deleterious effect to the water. Each pipe shall bear a mark denoting the class to which it belongs.

- 1.2.2.2 Polyvinyl Chloride Pipe PVC is not allowed

- 1.2.2.3 Steel Casing Pipe Pipe shall be of steel construction of the size and wall thickness below with lengths called for on the approved plans.

Water Main Size  
8"

Casing Size\*  
16"

Wall Thickness  
.250



10"	16"	.250
12"	18"	.312
16"	24"	.375
18"	30"	.375
20"	30"	.375
24"	36"	.500

\*Slip Joint D.I.P. Applications with Field Lok Gaskets or approved equal. Special considerations will be given per FRA and GDOT requirements.

1.2.2.4 Copper Tubing All service lines from the main to the meter shall be Type K copper tubing 1 in. and 2 in. and shall conform to AWWA Specification 7S-CR, ASTM Specifications B-88, and Federal Specification WW-T-799.

1.2.2.5 Service Line Encasement Service line encasement installed following curb and gutter construction shall be 2 in. (for 1 in. service line) or 4 in. (for 2 in. service line) polyethylene or approved equal. If encasement is placed prior to curb and gutter construction, class 200 PVC will be allowed.

### 1.2.3 Joints and Gaskets

1.2.3.1 Mechanical Joint Ductile Iron Pipe Mechanical joint ductile iron pipe shall be furnished with mechanical joint wedge action restraint, complete with rings, gaskets, bolts, and joint materials conforming to ANSI A-21.11, latest designation.

1.2.3.2 Slip Joint Ductile Iron Pipe Gaskets shall conform to ANSI A-21.11, latest designation. Use lubricants and gaskets of proper size, shape, and composition as recommended by the pipe manufacturer.

1.2.3.3 Polyvinyl Chloride Pipe C900 PVC shall be furnished with C900 wedge action restraint, complete with rings, gaskets, bolts, and joint materials conforming to ANSI A-21.11, latest designation. Non-C900 PVC shall be furnished with standard mechanical joint gland, and transition gasket.

1.2.3.4 Polyethylene Service Pipe (not permitted or allowed)

### 1.2.4 Pipe Fittings

1.2.4.1 Fittings Fittings shall be C153 Class 350 ductile iron conforming to ANSI A-21.1 and A-21.10. Fittings shall be epoxy resin lined and conform to ANSI A-21.11. Ductile iron fitting shall be as manufactured by the Ductile Iron Company of America, or equal. Fittings shall be complete with rings, bolts,



gaskets, etc. for joints. C110 fittings may be required for certain applications approved by FCWS.

#### 1.2.5 Valves

All valves shall meet current AWWA Standards. Valves shall be placed a minimum of 1,200 ft. apart and at all intersections of water mains. In areas where customer density is large, valve spacing shall be decreased as directed by FCWS. All valves shall be left opening valves.

1.2.5.1 Valves 16 in. and Larger Valves 16 in. and larger shall be Resilient Wedge Type Gate Valve or Butterfly Type or approved equal for underground service with a 2 in. square operating nut. Connections shall be mechanical joint with wedge action retainer glands unless otherwise specified.

1.2.5.2 Valves 12 in. and Smaller Valves 12 in. and smaller shall be Resilient Wedge Gate Type or approved equal for underground service with a 2 in. square operating nut. Connections shall be mechanical joint with wedge action retainer glands unless otherwise specified .

1.2.5.3 Air Release Valves Air release valves shall be with check valve on vent to prevent return of air into water main. Air release valves shall be installed at designated areas at the direction of FCWS.

1.2.5.4 Backflow Preventers Backflow Preventers are required in all new construction and shall be in accordance with requirements.

1.2.5.5 Crosses, Tees and Tapping Sleeves Crosses and tees shall be C153 Class 350 ductile iron conforming to ANSI A-21.1 and A-21.10 with wedge action retainer gland. Nipple length between fittings and valves shall be 3 times the pipe diameter or minimum of 24 in. (whichever is greater). Tapping sleeves may be required for certain applications approved by FCWS.

#### 1.2.6 Valve Boxes

Valve boxes shall be of the roadway extension type, of proper length and base size with suitable detachable cover, coated inside and out with asphalt paint. Valve extensions are required on all valves at trench depths greater than 6 ft. Boxes shall be telescopic, manufactured of ductile iron, and be 5 ¼ in. inside diameter<sup>4</sup>. Cover shall be marked "Water" in raised cast letters. All boxes not located in roadway shall have a 24 in. diameter pre-cast concrete collar placed level around the top for protection.

1.2.7 Fire Hydrants Hydrants shall be M&H 5 ¼ in. MVO 129S, mechanical joint end connections , two 2 ½ in. hose nozzles and one 4 ½ in. steamer nozzle, left opening., and silver in color. M&H 5 ¼ in. 129S "iHydrant" may be required at the direction of FCWS.

1.2.8 Service Saddles Service saddles shall be nylon coated ductile iron with dual stainless steel straps.

1.2.9 Service Pipe Couplings-All shall be Ford or approved equal as follows:

<u>Size</u>	<u>Ford</u>
1 in.	C44-44
2 in.	C44-77

1.2.10 Corporation Stops shall be as follows:

<u>Size</u>	<u>Ford</u>
1 in.	F1000-4
2 in.	FB1000

1.2.11 Meter Stops shall be as follows:

<u>Size</u>	<u>Ford</u>
1 in.	B43-444W
2 in.	BF43-777W

1.2.12 Meter Coupling/Backflow Preventer shall be as follows:

<u>Size</u>	<u>Watts</u>	<u>Ford</u>	<u>Conbraco</u>
¾ in.	7-U4-2	BF43	40-3C5-5A
1 in.		HHC 38323	40-105-01
1 ½ in.			
2 in.		HHC 31323	40-108-01

1 ½ in. and 2 in. couplings should be elliptical flanged.

1.2.13 Service Meters

1.2.13.1 Residential Service Meters Residential service meters shall be Badger E-series 5/8 in. x ¾ in., 1 in., 1 ½ in., or 2 in. with digital register, volume measured in gallons, and Orion cellular endpoint. FCWS is responsible to furnish and install meters.

1.2.13.2 Non-Residential Meters Non-residential meter installations shall be Badger E-series 5/8 in. x ¾ in., 1 in., 1 ½ in., or 2 in. with digital register, volume measured in gallons, and Orion cellular endpoint. FCWS is responsible to furnish and install non-residential meters 2 in. and smaller.

Larger diameter applications shall be Badger E-series 4 in., 6 in., 8 in., 10 in., or 12 in. with digital register, volume measured in gallons, and Orion cellular endpoint. Large diameter meter procurement and installation shall be the responsibility of the applicant.

#### 1.2.14 Residential Backflow Preventers

Dual check valves shall be installed by FCWS after all new 5/8 in. x 3/4 in. and 1 in. residential meters as specified in paragraph 1.2.12. Double-Check Assembly shall be installed by FCWS after new 1 1/2 in. and 2 in. residential meters.

#### 1.2.15 Non-Residential Backflow Preventers

These shall be installed on all connections to the System water main. The backflow prevention device shall generally be a Double-Check Assembly type. The actual selection of the device to be installed shall be approved on a case-by-case basis. The device shall be installed in the meter vault, with minimum of 24 in. separation in all directions to allow access and testing, served as applicable for the type device (refer to backflow prevention standards). Dedicated fire mains shall be contained by an approved Double-Check Assembly (minimum requirement). FCWS shall fully meter any dedicated fire main and require appropriate backflow prevention as conditions warrant. Any bypass shall also be required to have an approved backflow preventer installed with minimum of a 24 in. separation in all directions to allow access and testing.

#### 1.2.16 Meter Boxes and Enclosures

1.2.16.1 Residential Meter Boxes Meter boxes and lids for 5/8 in. x 3/4 in. or 1 in. meters for residential use shall be domestically manufactured, locatable, made of polyethylene plastic/composite with a 2 in. inset endpoint opening, in the lid, having nominal lid opening dimension of 18 in. L x 10 in. W x 12 in. H or approved equal. FCWS may require differing material and Tier rating depending on specific application. See Detail.

1.2.16.2 Irrigation Meter Boxes Meter boxes and lids for irrigation use shall be domestically manufactured, locatable, made of polyethylene plastic/composite with a 2 in. inset endpoint opening in the lid. FCWS may require differing material and Tier rating depending on specific application. See Detail.

1.2.16.3 Non-residential Meter Enclosures Non-residential meter enclosures shall be domestically manufactured, locatable, made of polyethylene plastic/composite with a 2 in. inset endpoint opening in the lid All enclosures shall meet specifications as outlined by ANSI 77 and AASHTO H-20 for use in the specific application and as approved by FCWS. Covers shall have a minimum coefficient of friction of 0.5. See Detail.

Meter Enclosures may also be located in a vault with a water proof, lockable, 36 in. x 36 in. minimum aluminum access hatch. Vault shall have a sleeved 1 in. hole bored away from entry steps to allow meter endpoint wiring to pass through and into endpoint enclosure. See Detail.

Endpoint enclosures shall be domestically manufactured, locatable, made of



polyethylene plastic/composite with a 2 in. inset opening, in the lid, having nominal lid opening dimension of 18in. L x 10in. W x 12in. H or approved equal. FCWS may require differing material and Tier rating depending on specific application.

- 1.2.17 Manhole Covers, Frames, and Steps Manhole covers, frames, and steps shall be free from scale, lumps, blisters, sand holes, plugs, or other defects. Covers and Frames shall be tough, strong-even grained, Griffin type "R" Nennah, Higgins, or approved equal.
- 1.2.18 Concrete Manholes Concrete manholes shall conform to ASTM-C-478, latest designation.
- 1.2.19 Manhole Joints and Gaskets Manhole joints shall be "O" ring gaskets. Ring shall be sealed with Igas, Sika Seal, or equal. Joints shall also be mortar plastered inside and outside.
- 1.2.20 Valve Markers Valve markers shall be pre-cast reinforced concrete, 4 in. x 4 ft. with four #2 reinforcing bars. Markers shall be stamped "V".
- 1.2.21 Underground Warning Tape Detectable Underground Warning Tape shall be placed 18 to 24 inches above the water main. Tape shall be 5-mil with aluminum backing, acid and alkali resistant polyethylene, 6 inches wide and bearing a the continuous message: "Caution Water Line Buried Below."

## **2. GENERAL CONSTRUCTION REQUIREMENTS**

### **2.1 General**

- 2.1.1 The following shall establish general construction requirements for installation, maintenance, and repair of FCWS infrastructure, as well as clearing and grubbing rights-of-way and easements, and paving and grassing of areas behind curb lines.
- 2.1.2 Material specification submittals are required for approval by FCWS for each project prior to construction.
- 2.1.3 It shall be the responsibility of the Contractor to notify all utility companies prior to any excavation.
- 2.1.4 The Contractor shall notify FCWS 48 hours prior to beginning construction. FCWS shall request a pre-construction conference with the.
- 2.1.5 All construction shall be subject to inspection by authorized representatives of FCWS at any time. No dirt cover shall be placed on any portion of completed water system infrastructure pending inspection and approval by FCWS.
- 2.1.6 It shall be the responsibility of the Contractor to coordinate all construction and ensure the adherence of these standards. Any work not meeting these standards shall be corrected immediately by the Contractor after notification by FCWS.

### **2.2 Erosion Control and Sedimentation**

The Contractor shall be responsible for maintaining proper control measures on the

construction site and adjacent areas for the duration of the project. Sediment control barriers, temporary sediment traps, sediment basins, grass, mulch, etc. will be required to adequately control erosion and prevent sedimentation. All materials and measures shall be in accordance with procedures of the State Soil and Water Conservation Committee *A Manual for Erosion and Sediment Control in Georgia*.

#### 2.2.1 Clearing and Grubbing

The clearing and disposal of all trees, bushes, shrubbery, and miscellaneous debris as outlined in project plans and specification shall be the sole responsibility of the Contractor subject to the approval of FCWS.

2.2.1.1 Clearing Clearing operations shall be performed to prevent damage to existing trees. Safety of employees and others should be considered throughout the operation.

2.2.1.2 Grubbing It shall be the responsibility of the Contractor to remove all debris from fill material in areas to be excavated, areas to be striped of topsoil, and areas to receive fill.

2.2.1.3 Disposal All cleared and grubbed material shall be disposed of in a manner satisfactory to FCWS. Burning shall not be allowed unless specifically permitted by the County Fire Marshal.

2.2.2 Bench Marks and Monuments All established bench marks, property pins, monuments, and other reference points shall be maintained; if destroyed or disturbed, they shall be replaced as directed by FCWS.

### 2.3 Traffic Control

Operations shall be conducted so that there will be a minimum of interference with or interruption of traffic upon and of the roadway. This applies to both the initial installation, and the continuing maintenance and operation of facilities. Whenever construction is conducted along a highway, utility construction signs shall be provided at approximately 1,500 ft., 1,000 ft., and 500 ft. along the affected roadway prior to construction. In the case of single lane closings, a flagman shall also be required on each side of the construction side to direct traffic. Lane closings shall not be permitted without prior appropriate jurisdictional and FCWS approval. Reflective, 36-inch traffic cones shall also be placed along the closed lane, at a distance, in feet, not to exceed the maximum speed limit, in miles per hour, of the affected roadway. Road closings shall be protected by effective barricades and obstructions shall be lighted during hours of darkness. Flagmen and suitable warning signs shall be required as may be required to properly control and direct traffic. Safety of both motorists and the public shall be always provided. All traffic control must substantially conform to the federal MUTCD.

## 3. WATER SYSTEM CONSTRUCTION STANDARDS



### **3.1 Installation Procedures**

- 3.1.1 General The following shall establish the general construction requirements for installation, operation, and maintenance of FCWS infrastructure. It shall be understood that these standards reflect the minimum requirements necessary for final acceptance by FCWS. Contractors shall adhere to all applicable OSHA regulations.
- 3.1.2 It shall be the contractor performing construction to notify all utility companies prior to any excavation and utilize 811 for utility locating.
- 3.1.3 The contractor shall schedule a pre-construction conference with FCWS and their sub-contractor at least a minimum of 5 business days prior to beginning construction.
- 3.1.4 FCWS shall be notified 48 hours (two full business days) prior to beginning construction.
- 3.1.5 All construction shall be subject to inspection by authorized representatives of FCWS at any time. No dirt cover shall be placed on any portion of water system infrastructure prior to inspection and approval by FCWS.
- 3.1.6 All construction shall adhere to this Standards and Specifications Manual. Any work not meeting these standards shall be corrected immediately after notification by FCWS.
- 3.1.7 Trench Construction
  - 3.1.7.1 Excavation All work performed in excavations shall be conducted in such a way as to ensure worker safety. Safe practices shall conform to OSHA regulations for working in confined spaces, especially as they pertain to excavations and the protective systems they require. An excavation shall consist of removing earthwork for the satisfactory placement of water mains and appurtenances. This includes vegetation, brush and debris, soil, rock, pavements, etc. for the intent and purpose of constructing the work required lines and grades, including sheathing, bracing and dewatering excavations, trench bed stabilization, and such other incidentals necessary to comply with plans and specifications. Refer to OSHA Trench Safety regulations.
  - 3.1.7.2 Trenching A trench may be open cut from the ground surface where designated on the plans or approved by FCWS. Boring may be required to protect certain surface improvements and to satisfy requirements of GDOT and/or the railroad companies. Minimum width shall be nominal diameter of the pipe plus 12 in. and minimum cover on pipe shall be 48 in. Bottom of trenches shall be hand dressed so that the pipe has even bearing on loose granular soil, minimum of 4 in. in depth and free from rocks and debris throughout its entire length between bell holes. ,. Bell holes of sufficient size for making perfect joints shall be provided. Changes in grade shall be gradual.



Except as specified for jack/bore procedures under pavements and railroads, all excavation shall be made by open cut, unless otherwise authorized by FCWS. All work within right-of-way of railroads and state highways shall be subject to an approval permit for construction (processed through the Owner), and all rules and regulations of those authorities shall be required. It shall be the responsibility of the Contractor to prepare the applications for the required permits.

It is preferable that all trenching be done by a trencher made specifically for such purposes; however, a backhoe or other equipment will be acceptable.

Where excessive excavation results, the Contractor shall construct special foundations or use special backfill methods. Over-depth excavation will be required to remove material unsuitable to support the pipe.

3.1.7.3 Alignment Alignment shall be as indicated on the approved plans. When an obstruction is encountered, make necessary changes in alignment or grade as approved by FCWS. Injury or damage to adjacent structures, water, sanitary sewer, gas line, or other utilities shall be avoided.

3.1.7.4 Sheathing and Bracing When trench sides must be kept as nearly vertical as possible, it may be necessary to sheath, brace, or support trench sides.

When trench depth excavation exceeds 5 ft., sheathing and bracing shall be required to protect the pipe crew from injury, irrespective of the visible judgment of soil conditions by the Contractor. In event the sheathing cannot be removed without injury to the pipe or adjoining structures, it shall be left in place or cut, and the upper part then removed. All trenching, sheathing, bracing, side sloping, etc. shall conform to the regulations of OSHA. Side sloping in accordance with OSHA regulations is acceptable where conditions permit. It shall be the responsibility of the Contractor to ensure that all safety measures are met.

3.1.7.5 Stabilization and Bedding Subgrade stabilizer is to be used where required by FCWS. In soft ground, quicksand, or in areas where soil conditions are such that pipe alignment or grade is endangered, the trench shall be excavated below grade and then brought back to grade with stone stabilizer material. Stone stabilizer material shall be ASTM #57 crushed stone. Depth of stone shall be 6 in. minimum or as directed by FCWS.

3.1.7.6 Excavated Material All excavated material shall be placed on one side of the

trench in a manner to prevent blockage of surface drainage patterns and traffic. It shall be so placed as to not endanger the work, always allowing free access to the trench and all existing utilities publicly or privately owned, particularly fire hydrants. Spoil placement shall conform to the regulations of OSHA .

Where necessary, fencing or retainers shall be erected to retain the excavated material within narrow limits to prevent obstruction of traffic and/or encroachment upon pavements or other areas restricted by property owners. Included shall be protection of hedges, walls, flower/rock gardens, shade trees, fruit trees, and vegetable gardens. Satisfactory provisions shall be made for travel on sidewalks, crosswalks, streets, railroads, bridges, private ways, railings, barriers, etc. All drains, gutters, culverts, and sewers for surface drainage shall be kept open. If it is evident they must be temporarily closed, then all requirements of the Owner must be met prior to such closing.

Excavated material shall not, in any case, be placed upon the pavement surfaces of public roads or streets owned by the city, county, or state unless prior approval is given by the proper Department having jurisdiction. In periods between dusk and daylight, and during inclement weather when visibility is limited, caution lights and barricades shall be placed at each end along the excavated material. Each building, wall, fence, pile, bridge, railroad, sidewalk, driveway, tree, lawn, garden, or any other improvement encountered is to be properly protected from injury. In event of damage during the work, prompt repairs satisfactory to FCWS and the property owner shall be made by the Contractor.

#### 3.1.7.7 Limit of Open Trench

The length of the trench to be opened or the area of surface to be disturbed and restored at any one time shall be limited to that which the Contractor can complete in one day's work, or less in event of apparent inclement weather, or not to exceed 100 ft.

It shall be the Contractor's responsibility to provide adequate barricades, warning signs, flagmen, flashing lights, etc. as necessary to safeguard the public. All trenches must be backfilled by the close of each workday.

#### 3.1.7.8 Disposition of Water Keep trenches free of water. The Contractor shall furnish all equipment and labor necessary to remove any water found or accumulated in the trench. Other excavation shall be kept clear of water while



pipe is being laid or concrete or masonry is being placed. No pipe shall be laid in water, and water must not be permitted to flow over or rise upon any masonry or pipe until the work has been accepted to prevent flow-in of silty water, thus preventing buildup of foreign matter in the pipe. All water pumped or bailed from the trench or other excavation must be conveyed in an acceptable manner to a suitable point of discharge (i.e. a stream or ditch) where it shall not cause injury to public health, or public or private property, or to work under construction or previously completed to the street surfaces, or to cause interference with the use of streets by the public. Sediment control barriers, temporary sediment traps, sediment basins, grass, mulch, etc. will be required to adequately control erosion and prevent sedimentation following procedures of the State Soil and Water Conservation Committee A Manual for Erosion and Sediment Control in Georgia.

3.1.7.9 Excavation Near Roads and Railroads Special care must be exercised in trenching near roads and railroads to protect against collapsing of the roadbed structure. Each situation must be evaluated on account of varying soils. Coordination with GDOT, the local jurisdiction, and/or FRA shall be made prior to excavation.

3.1.7.10 Subsurface Obstructions In excavating, backfilling, and laying pipe, care must be taken not to remove, disturb, or injure any water, sewer, gas, electric, telephone, or other conduits or utilities without prior approval of the owner of the utility encountered, including private utilities.

If necessary, to perform the intended work, the Contractor shall sling, shore up, and maintain such utilities in operation and promptly repair any damage done to them. Before final acceptance of the work, all such utilities shall be made "equal to or better" than prior to construction.

It shall be the Contractor's responsibility to contact 811 to locate underground utilities. In event of damage to the utilities, the Contractor will promptly notify the utility owner (public or private) and must assume full responsibility.

In event pipe or conduits providing service to adjoining buildings are broken or damaged to some questionable degree of service, the Contractor shall immediately make repairs at their own expense or otherwise be liable for repair costs incurred by others. The utility owner reserves the right to make repairs caused by the Contractor without prior notice. Removal or relocation of a utility encountered may be done upon prior approval by the utility owner.



given directly to the Contractor.

3.1.7.11 Rock Excavation Remove all rock to below 6 in. grade of trench and build back trench bottom with loose granular soil, minimum of 4 in. in depth and free from rocks and debris. When necessary, blasting operations shall be conducted in strict accordance with all existing local and state ordinances and regulations. Blasting shall be conducted by persons licensed to use explosives.

3.1.7.12 Where blasting is to be conducted along the right-of-way of a GDOT roadway, the Contractor shall provide FCWS all necessary information to submit blasting permit applications to GDOT for approval. Blasting may occur only after FCWS receives the GDOT permit.

### 3.1.8 Pipe Installation

3.1.8.1 Inspection Before Laying Pipe All pipe shall be subject to inspection prior to installation. Only new pipe with smooth surfaces (interior and exterior), free from cracks, flaws, blisters, etc. shall be used.

3.1.8.2 Handling Pipe shall not be dropped..

3.1.8.3 Laying Pipe shall be swept clean of trash or dirt before lowering into the trench. After the pipe has been cleaned, it shall be lowered into the trench in such a manner that the pipe shall not be damaged. Each joint shall be lined and brought to a uniform grade upon a trench bottom. Holes for couplings or bells shall be prepared with a minimum clearance of 2 in. Pipe shall be laid in straight lines on uniform grades and shall not be deflected either vertically or horizontally in excess recommended by the manufacturer. Before stopping work each day, all open pipe ends shall be closed with a proper size plug. Secure pipe from floating.

#### 3.1.8.4 Joining

3.1.8.4.1 Mechanical Joints Clean spigot and bell of foreign material and apply a food grade lubricant solution before slipping gasket and gland over spigot end of pipe. Follow manufacturer guidelines for installation. Tighten bolts with a torque wrench to recommended tightness by the manufacturer.

3.1.8.4.2 Slip Joints Jointing shall be made with rubber gaskets and lubricant furnished by the manufacturer in strict accordance with the manufacturer's recommendations. Prepare field cut pipe by filing 1/8 in., 30 degree bevel on pipe end to avoid injuring gasket.

3.1.8.4.3 Threaded Pipe Wire-brush threads, clean and apply an approved joint compound. Tighten until joint is snug and watertight.

3.1.8.4.4 Polyvinyl Chloride Pipe PVC shall not be allowed without prior

approval from FCWS.

3.1.8.4.5 Polyethylene Pipe All connections shall be in accordance with manufacturer's recommendations.

3.1.8.4.6 Restrained Joints All restrained joints shall be installed in strict accordance with manufacturer's recommendations.

3.1.8.5 Connections to Existing Mains Connections to existing mains shall be governed by all applicable provisions of these specifications. The Contractor shall locate, excavate, and cut the existing main, remove the section of old pipe, rework the trench, connect the new pipe with the old, and set necessary appurtenances as shown on the approved plans. All necessary precautions shall be taken to brace valves and mains under pressure to prevent blow outs.

Connections to existing mains shall be made at the locations shown on the construction plans or as directed by FCWS. Connections to existing mains, other than service lines, will require a tee with three valves – nipple length for tie-in with sleeves shall be three times the pipe diameter. Alternate configuration may be allowed with approval from FCWS. Tie-ins requiring existing water mains to be shut down shall be scheduled by FCWS trying to affect a minimal number of customers. Valve operation shall be performed by FCWS; however, the Contractor may operate valves at the specific direction and approval of FCWS.

When an existing main has been cut, the work of making a connection shall proceed, without interruption, until completed.

Where new construction is required over existing piping, a steel, reinforced grade beam at least 4 ft. wide and 2 ft. deep is required.

3.1.9 Trenching and Backfilling The trench shall be dewatered prior to being backfilled with loose native earth that is free of clods, large stones, debris, or other objectionable material. In traffic areas, particularly roads, streets, parking lots, and walkways, the full depth of backfill shall receive thorough tamping in 6 in. lifts to a minimum of 98 percent standard proctor density. FCWS may request that soil compaction test be performed by an outside testing consultant. Particular attention is directed to driveways, walkways, and areas subject to mail delivery where prompt backfilling is required to prevent a public safety hazard.

In all areas of construction, the excavated material shall be cleared from the premises and the completed work left in a neat and acceptable condition, including broken



pavement and other matter not classified as earth.

Trenches and other excavated areas completed by the Contractor shall be kept in a good and safe condition during the maintenance period following acceptance by FCWS.

#### 3.1.9.1 Timing

Trenches shall be backfilled as soon as practical after laying and jointing the pipe. Provisions for traffic as specified under "Excavated Material" must be adhered to.

#### 3.1.9.2 In Non-Traffic Areas

Carefully refill with suitable material in layers not exceeding 6 in. in thickness and thoroughly tamp with mechanical tamps to 1 ft. above the top of the pipe. The remainder of the trench may be backfilled without tamping except for areas around valves and fire hydrants, which require tamping as specified under the installation of those items. The backfill shall be rounded over the trench to provide allowance for future backfill settlement.

3.1.10 Highway and Railroad Crossings Install in strict accordance with railroad or State Highway requirements and all applicable provisions of the plans and specifications. Install casing pipe by jacking, boring, or tunneling in strict accordance with the requirements of GDOT and FHWA or railroad. Diameter of the hole shall not exceed the outside diameter of the pipe. Seal ends of casing in accordance with GDOT or railroad requirements.

#### 3.1.11 Casing

3.1.11.1 Ductile Iron Casing Casing pipe for ductile iron shall be as specified and joints shall be welded. Carrier pipe shall be ductile iron with mechanical joints as specified. Welds for steel pipe shall be filled arc-weld type meeting American Welding Society and American Institute of Steel Construction Standards. Welds shall be continuous, watertight, and develop a greater strength than the pipe.

3.1.11.2 Fusible PVC Casing... Fusion technician(s) shall be qualified by the pipe supplier to install fusible polyvinylchloride (PVC) pipe of the type(s) and size(s) specified. Qualification shall be current as of the date of fusion installation. Inside and outside of welds shall have all rust, mill scale, flux flumes, oxides, grease, and oil removed by chipping and wire brushing immediately before applying touch-up coating. All weld and scratched areas shall be recoated with coal tar material of same type and thickness as original coating. Outside shall be coated immediately after welding. Carrier pipe will be pushed into casing with stainless steel casing spacers to avoid damaging



coating in casing.

- 3.1.12 **Uncased Bores for Driveways** Uncased bores for lines under paved driveways shall be in strict accordance with GDOT Standard Specifications, Shore, brace, and maintain all safety measures to avoid danger or damage.
- 3.1.13 **Asphalt Concrete Paving Replacement (Where Open Cut is Allowed)**  
Materials and construction methods shall conform to GDOT Standard Specifications, latest edition, and typical details of these standards.
- 3.1.13.1 **Removal** Existing pavement shall be sawed.
- 3.1.13.2 **Excavation and Backfill** Excavation and backfill shall be in accordance with this Section.
- 3.1.13.3 **Base** Base shall be 8 in. of "High Early Strength" concrete in accordance with Section 430 of the *Georgia Standard Specifications for Construction of Roads and Bridges*.
- 3.1.13.4 **Pavement** Pavement shall be hot mix asphaltic concrete either Type "E" or "F", and shall be in accordance with Section 400 of the *Georgia Standard Specifications for Construction of Roads and Bridges*.
- 3.1.14 **Valves and Fittings** Valves and fitting shall be installed as shown on the approved plans or directed by FCWS. Valves shall be set plumb and on firm bearing. Each underground valve shall include a valve box placed vertically to allow operation of the valve. All valve boxes shall be plumb at final grade and risers will not be allowed. Backfill around valves boxes shall be tamped in 6 in lifts to ensure proper compaction.
- Valve boxes not located in roadways shall have a pre-cast concrete collar placed level around the top for protection. When valves are approved for installation in a roadway, the valve boxes shall be installed with single, reinforced concrete valve pad to encompass with # 4 rebar, 8 in. on center each way. All valves and fittings shall be secured with a method of restraint approved by FCWS.
- 3.1.15 **Setting Valve Markers** Set vertically in the ground with 30 in. to 36in. projecting and within 2 feet of the valve box.
- 3.1.16 **Plugging Dead Ends** All dead ends of pipes, tees, or crosses shall be plugged or capped. Installation of plugs or caps shall be as specified for similar pipe and fittings. A fire hydrant assembly shall be installed on the end of the pipe as directed by FCWS.
- 3.1.17 **Pipe Restraint Requirements** All bends, tees, ends of mains, and crosses shall be restrained as indicated on the plans or as directed by FCWS. All restrained joints shall conform to manufacturer's recommendations.
- 3.1.18 **Thrust Blocking Requirements** Thrust blocking shall be minimum 3000 psi concrete

and is required on all bends and tees. Ply sheeting shall be used to cover fittings and bolts. Calcium shall be required additive per the direction of FCWS

- 3.1.19 Fire Hydrants Fire hydrants shall be located and installed as shown on the plans, or as directed by FCWS, and set plumb from 30 in. to 36 in. of hydrant exposed above the ground. Minimum valve opening shall be 5 ¼ in. Minimum height of hydrant flange from final grade is between 2 in. – 6 in. Fire hydrants are to be located on the right-of-way line and shall have a gate valve installed between the main and the fire hydrant. Valve and hydrant shall be restrained to the satisfaction of FCWS. The contractor will furnish adjustable anchor couplings as required to maintain these dimensions. Hydrant extension kit will only be allowed if approved by FCWS prior to installation. Fire hydrants serving commercial, industrial, or multi-family residential areas shall be located at intervals not to exceed 400 L.F. along the street right-of-way (Reference Fayette County Code Section 12-90 & 1-91).

Foreign matter shall be removed from the interior of hydrants, stuffing boxes tightened, and the valve operated to assure they are in working order before installation.

Fourteen cubic feet of gravel shall be placed around base of hydrants to ensure drainage. Tie rods or hydrant tees and anchor couplings shall be installed and backfill shall be thoroughly tamped in 6 in. lifts around hydrants to ensure proper compaction.

#### 3.1.20 Services

- 3.1.20.1 Service Connections Corporation stops and curb stops shall be used on all service connections. Connections to main lines shall require a double strap saddle. Use approved tapping machine to make all taps.
- 3.1.20.2 Service Lines Service line conduit and/or piping shall be installed at a minimum depth of 4 ft. Long side services installed in new subdivisions shall be installed by casing service lines in 2 in. conduit. Conduit may be installed under proposed streets either by open cut prior to curb and gutter installation, by mechanical boring from beyond back-of-curb to back-of-curb following curb installation, or by other acceptable means preapproved by FCWS.
- 3.1.20.3 Setting Meters and Meter Boxes Meter boxes shall be located as directed by FCWS, installed plumb, and backfill thoroughly tamped. Meter and Stop will be installed in box as shown in Details. Any meter boxes damaged during construction shall be replaced by Contractor. The location of and meters shall be marked in the field by sawing a "W" in the curbing and placing a 2 in. PVC pipe vertically and adjacent to an iron pin immediately



behind the curb or at the edge of the pavement. The 2 in. PVC pipe should extend 3 ft. above final grade and painted blue as per standardized color. Curb stops shall be full port and placed inside meter boxes at the end of all service lines.

3.1.20.4 Cross Connections Cross connection to any other water supply is strictly prohibited.

3.1.21 Cleanup and Property Restoration Upon completion of backfilling, all surplus earth, rock, or other materials shall be moved and disposed of offsite in a timely manner. All streets, driveways, monuments, mailboxes, or other private property damaged by the Contractor or Sub-Contractors shall be cleaned up and restored to their original condition as soon as possible.

## **3.2 Hydrostatic Testing**

3.2.1 Expelled Air Before applying the specified test pressure, all air shall be expelled from the pipe. If hydrants, blow-offs, or air release valves are not available at the high elevations, the Contractor shall make the necessary taps at points of highest elevation before the test is made and insert plugs after the tests have been completed. Any cracked or defective pipe, fittings, valves, or hydrants discovered in consequence of this pressure test shall be removed and replaced with sound material and the test shall be repeated until satisfactory to FCWS.

3.2.2 Testing Required After all piping has been placed, each section shall be tested in the presence of the FCWS Inspector and tests shall be continued until all leaks have been made tight to the satisfaction of the FCWS Inspector. The Contractor shall furnish all water pumps, gauges, bulkheads, and other materials necessary to conduct the test as herein required. Every precaution must be taken to valve off or otherwise protect control equipment, in or attached to the pipe line, to prevent damage or injury thereto. All piping shall be hydrostatically tested at a pressure of at least one and one-half times the rated pressure of the pipe for 15 minutes, then at the rated pressure of the pipe for two hours.

3.2.3 Allowable Leakage Test Following the 15 minute pressure test, the pressure loss shall be recorded and the pressure dropped to the rated pressure of the pipe for the additional two hours.

At the end of the two-hour period, a leakage test shall be conducted as follows. The pipe being tested shall be refilled, monitoring the amount of water required until the original pressure rating is obtained. The maximum leakage allowed will be 10 gallons per inch diameter, per mile, per day.

3.2.4 Water for Testing

Prior to receiving water for hydraulic testing, FCWS shall be notified about the desire



for testing and disinfection. A temporary fill line shall be extended from an existing active water main to the water main being filled. This line shall be equipped with a meter and a backflow prevention device as specified herein. FCWS shall provide an inspector to operate all active water valves and witness tests and disinfection procedures. A contractor shall not operate active water valves under any circumstances.

### **3.3 Disinfection of Water Lines**

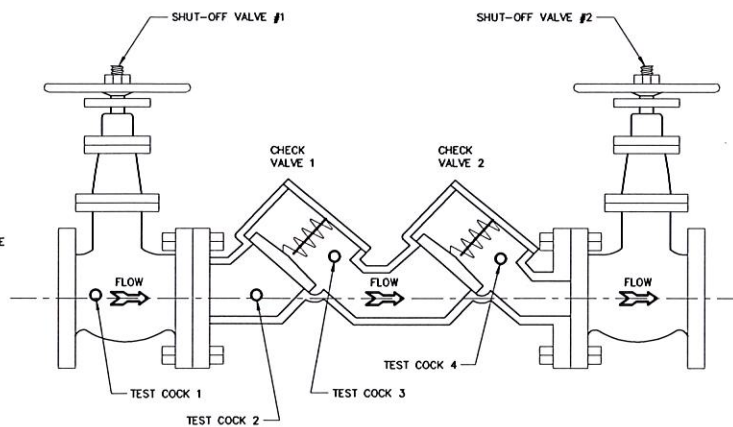
#### **3.3.1 General**

Disinfection of water lines and the disposal of heavily chlorinated water (following disinfection) must be accomplished in accordance with the latest edition of AWWA Standard C651.

3.3.1.1 Notification of Testing FCWS shall be notified 48 hours minimum before filling lines for disinfection.

3.3.1.2 Residual Testing After wasting the heavily chlorinated water in an approved manner and final flushing, water samples shall be taken from the water main and shall be tested in the FCWS lab. If water samples tested in a third party state approved lab, copies of written lab results must be received by FCWS prior to installation of any water meters.

**DOUBLE CHECK VALVE BACKFLOW PREVENTERS (DCV) :**  
 DOUBLE CHECK VALVES AND DUAL CHECK BACKFLOW PREVENTERS MAY BE USED AS PROTECTION FOR ALL PRESSURE CONNECTIONS THROUGH WHICH POLLUTANTS MIGHT ENTER THE POTABLE WATER SYSTEM IN CONCENTRATION THAT COULD CONSTITUTE A NUISANCE OR BE AESTHETICALLY OBJECTIONABLE, SUCH AS AIR, STEAM, OR OTHER MATERIALS THAT DO NOT CONSTITUTE A HEALTH HAZARD.



245 McDonough Road  
 Fayetteville, GA 30214  
 770.320.6020

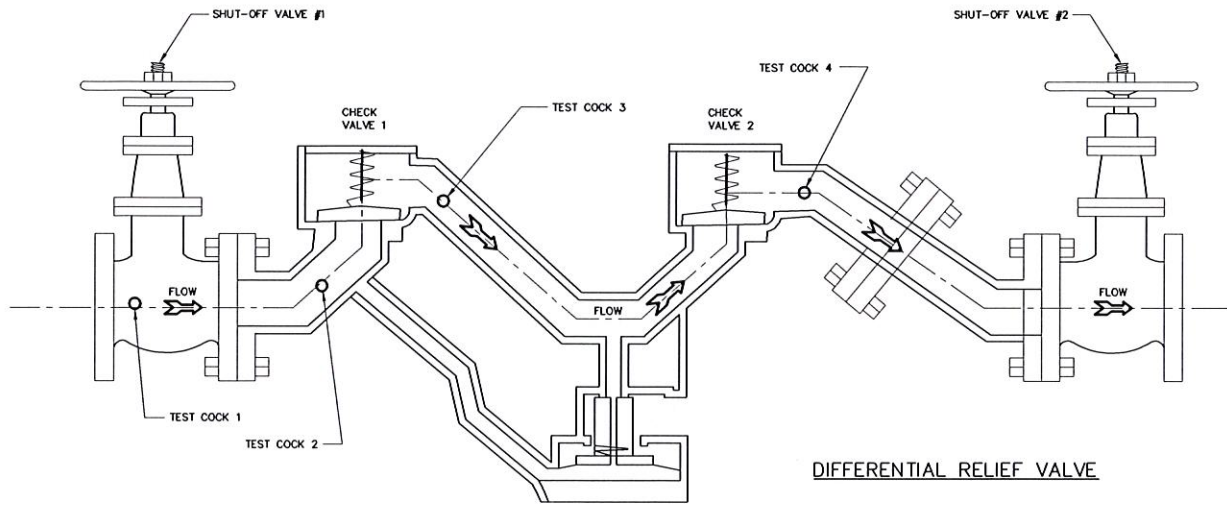
## DOUBLE CHECK VALVE BACKFLOW PREVENTERS

**BFP-0001**

DESIGNED: J.F.C.	DRAWN: B.J.J.
DATE: 12/2024	SCALE: N.T.S.

BY	REVISIONS	DATE

FIG. 5  
 REDUCED PRESSURE ZONE BACKFLOW PREVENTERS (RPZ):  
 SHALL BE USED ON ALL PRESSURE CONNECTIONS THAT  
 SHALL BE SUBJECT TO BACK PRESSURE, AND WHERE THERE  
 IS THE POTENTIAL FOR CONTAMINATION AND HEALTH HAZARD.



245 McDonough Road  
 Fayetteville, GA 30214  
 770.320.6020

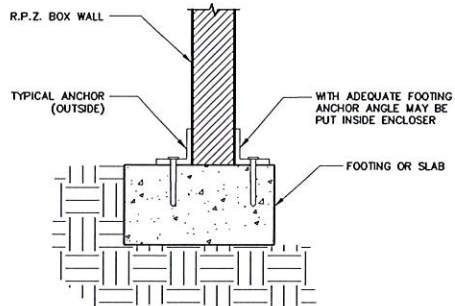
## REDUCED PRESSURE BACKFLOW PREVENTER

BFP-0002

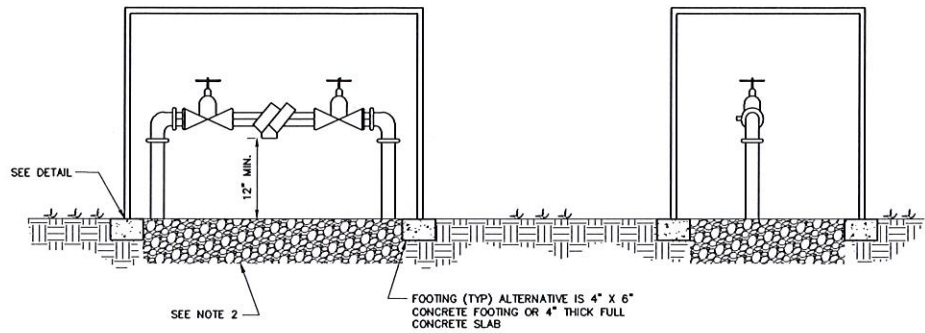
DESIGNED: J.F.C. DRAWN: B.J.J.  
 DATE: 12/2024 SCALE: N.T.S.

BY  
 REVISIONS  
 DATE





FOOTING OR CONCRETE SLAB (R.P.Z. BOX)



R.P.Z. INSTALLATION DETAIL

- NOTES:
1. BOX SHOULD BE HEATED OR INSULATED TO PROTECT FROM FREEZING.
  2. IF A PERIMETER FOOTING IS USED, THERE MUST BE GRAVEL COVERING THE ENTIRE BOTTOM OF THE ENCLOSURE A FULL (12") TWELVE INCHES DEEP.



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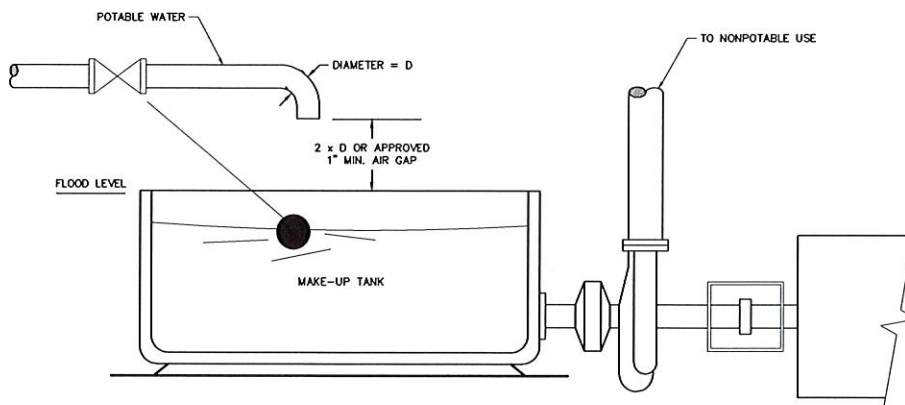
## REDUCED PRESSURE ZONE ASSEMBLY INSTALLATION

BFP-0003

DESIGNED: J.F.C. DRAWN: B.J.J.  
DATE: 12/2024 SCALE: N.T.S.

BY  
REVISIONS  
DATE

**AIR GAP (AG):** THE PHYSICAL SEPERATION BY AN AIR SPACE OF THE POTABLE WATER SUPPLY AND AN OPEN VESSEL THAT CONTAINS NONPOTABLE FLUIDS. THE VERTICAL DISTANCE BETWEEN THE SUPPLY PIPE AND THE FLOOD LEVEL RIM SHOULD BE TWO TIMES THE DIAMETER OF THE SUPPLY PIPE, BUT NEVER LESS THAN 1 INCH.



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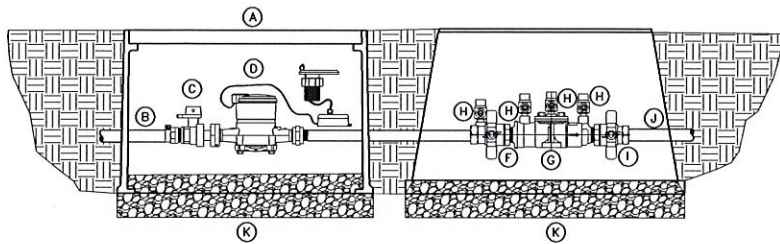
## AIR GAP DETAIL

BFP-0004

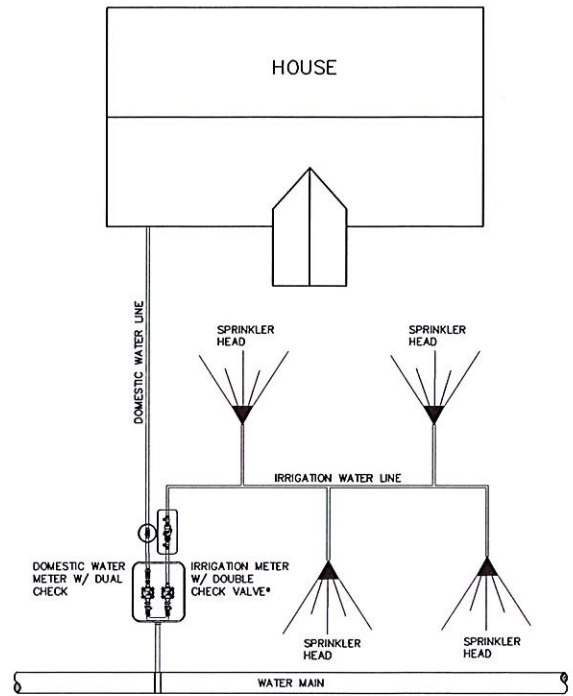
DESIGNED: J.F.C.	DRAWN: B.J.J.
DATE: 12/2024	SCALE: N.T.S.

BY	REVISIONS	DATE

IRRIGATION METER PLAN VIEW



- A. LOCATABLE POLYPROPYLENE LID AND BODY WITH TWO 2" HOLES FOR TOUCH READ CAPABILITY (DEVELOPER INSTALLED)
- B. TYPE K COPPER SERVICE LINE CONNECTION (DEVELOPER INSTALLED)
- C. CURB STOP--FORD B43--332W OR APPROVED EQUAL (DEVELOPER INSTALLED)
- D. 3/4" BADGER G2 ULTRASONIC WATER METER OR APPROVED EQUAL
- E. DUAL CHECK --WILKINS 700 IUFMX34UF OR APPROVED EQUAL
- F. 3/4" WATTS BRASS FBVSSTH BALL VALVE W / STAINLESS STEEL "I"
- G. DOUBLE CHECK VALVE
- H. TEST COCKS
- I. 3/4" WATTS BRASS FBVSSTH BALL VALVE W / STAINLESS STEEL "I"
- J. IRRIGATION LINE
- K. 6" MIN #57 STONE



\*NOTE:  
ALL BACKFLOW PREVENTERS SHALL BE TESTED BY A CERTIFIED TESTER AND PAPERWORK TURNED IN TO THE FAYETTE COUNTY WATER SYSTEM NO LATER THAT 15 DAYS AFTER INSTALLATION.



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## RESIDENTIAL IRRIGATION METER WITH BACKFLOW PREVENTER INSTALLATION

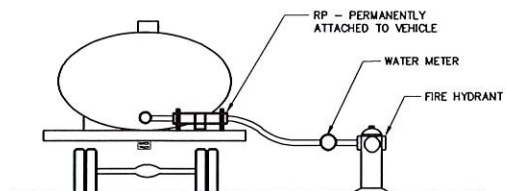
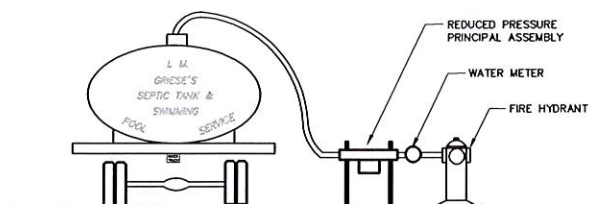
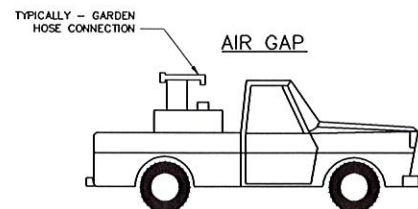
BFP-0005

DESIGNED: J.F.C. DRAWN: B.J.J.  
DATE: 12/2024 SCALE: N.T.S.

BY  
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DATE



APPROVED METHODS OF FILLING TANKS, TANKER TRUCKS:  
ANY WATER BEING INTRODUCED INTO A VESSEL, TANK,  
TANKER TRUCK ETC.; FROM ANY CONNECTION TO THE CITY  
OF FAIRBURN WATER DISTRIBUTION MUST BE THROUGH AN  
APPROVED BACKFLOW PREVENTION DEVICE. THE MOST  
EFFECTIVE AND ECONOMICAL METHOD IS BY AN APPROVED  
AIR-GAP SEPERATION BETWEEN THE WATER INLET AND  
OVERFLOW LEVEL OF THE VESSEL OR TANK. AT NO TIME  
SHALL A HOSE, EITHER HAND HELD OR OTHERWISE IMMERSED  
IN A VESSEL OR TANK BE AN ACCEPTABLE METHOD FOR  
THIS TYPE APPLICATION.



NOTE:  
ANYONE FOUND IN VIOLATION WILL BE PROHIBITED FROM FURTHER  
USE OF THE CONNECTION AND WILL BE SUBJECT TO FINE.



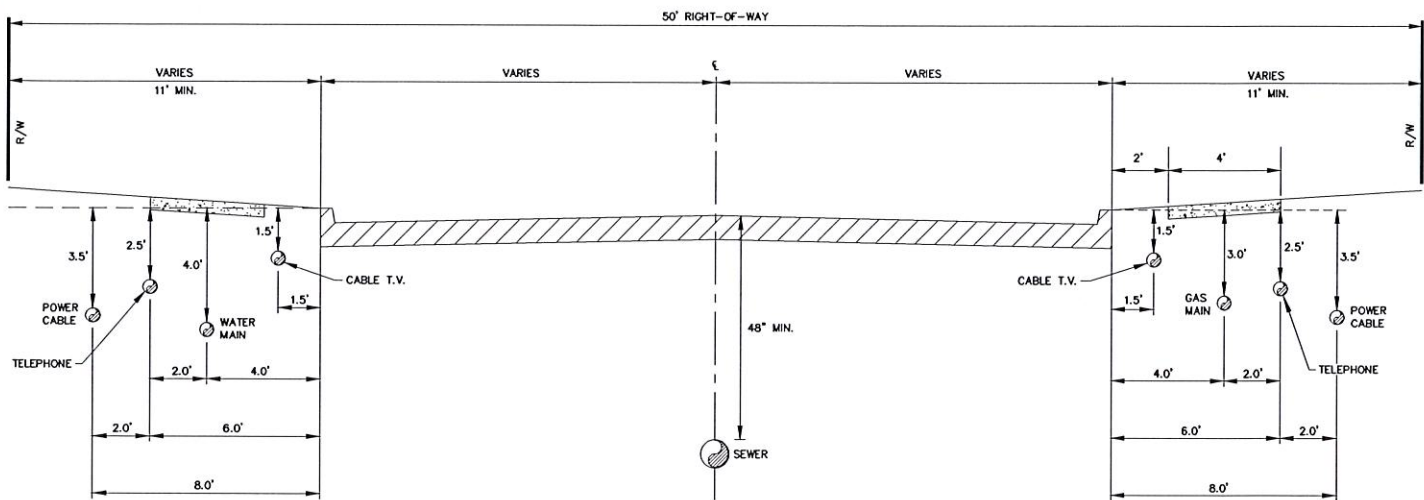
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## TANK/TRUCK FILLING METHODS

# BFP-0006

DESIGNED: J.F.C. DRAWN: B.J.J.  
DATE: 12/2024 SCALE: N.T.S.

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REVISIONS  
DATE



- NOTES:**
1. THIS STANDARD DETAIL IS TO BE USED FOR UTILITY LOCATIONS WITHIN RIGHT-OF-WAY OF SUBDIVISIONS ONLY.
  2. BEFORE ANY UTILITY IS INSTALLED, THE ENTIRE WIDTH OF THE RIGHT-OF-WAY SHALL BE ROUGH GRADED.
  3. IN GENERAL, THE DEEPEST UTILITIES SHOULD BE INSTALLED FIRST TO MINIMIZE ANY POSSIBLE INTERFERENCE WITH LATERALS OR SERVICE LINES.
  4. IN CUL-DE-SAC OR EYEBROW TURNAROUNDS, THE DIMENSIONS FROM THE CURB SHALL VARY. HOWEVER, THE STANDARD UTILITY SPACING SHALL BE MAINTAINED.
  5. BACKFILL OF ALL UTILITY TRENCHES CONSTRUCTED IN THE ROADWAY SHOULDER SHALL BE RETURNED TO 90% COMPACTION.
  6. EACH UTILITY SHALL BE RESPONSIBLE FOR REPAIR OF ANY DAMAGE THEY CREATE TO OTHER UTILITY LINES, OR TO THE STREET IMPROVEMENTS WITHIN THE RIGHT-OF-WAY. NO UTILITY SHALL BE RESPONSIBLE FOR DAMAGES TO ANOTHER UTILITY WHICH IS LOCATED OUTSIDE THEIR ASSIGNED SPACE.
  7. GEORGIA 811 MUST BE CONTACTED FOR UTILITY LOCATION PRIOR TO ANY DIGGING IN THE RIGHT-OF-WAY.
  8. ONCE THE ROAD BASE HAS BEEN PLACED, ALL FURTHER INSTALLATION OF UTILITIES UNDER THE ROADWAY SHALL BE BORED.



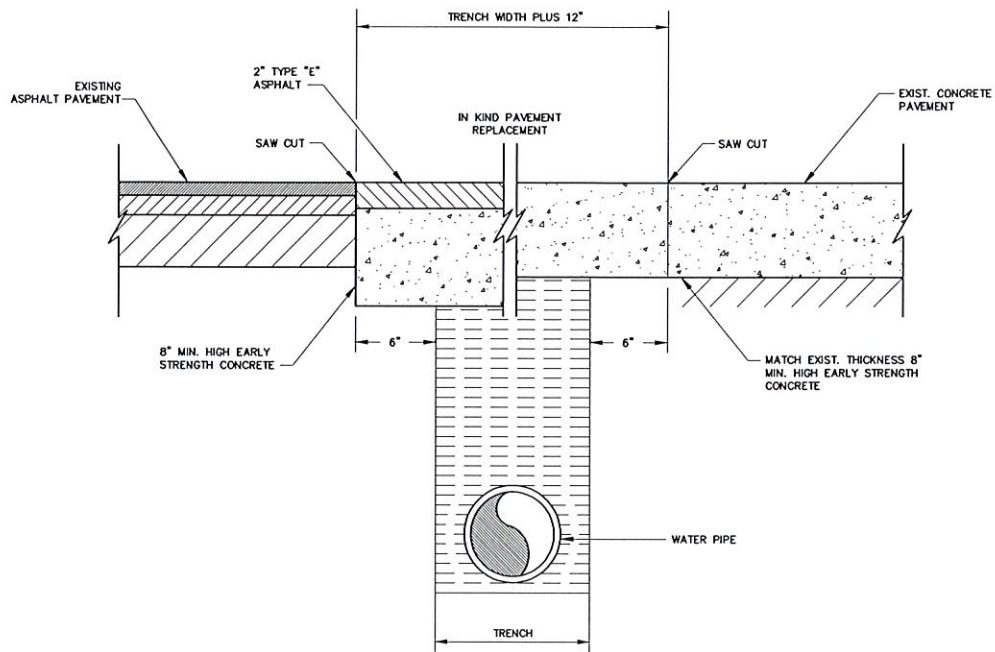
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## UTILITY PLACEMENT

U-0001

DESIGNED: J.F.C. DRAWN: B.J.J.  
DATE: 12/2024 SCALE: N.T.S.

BY: REVISIONS  
DATE



NOTE:  
TRENCH TO BE BACKFILLED IN MAXIMUM 8" (LOOSE)  
LIFTS AND THOROUGHLY COMPACTED TO NOT LESS THAN  
95% STANDARD PROCTOR DENSITY AT OPTIMUM MOISTURE  
BY METHODS SATISFACTORY TO ENGINEER.



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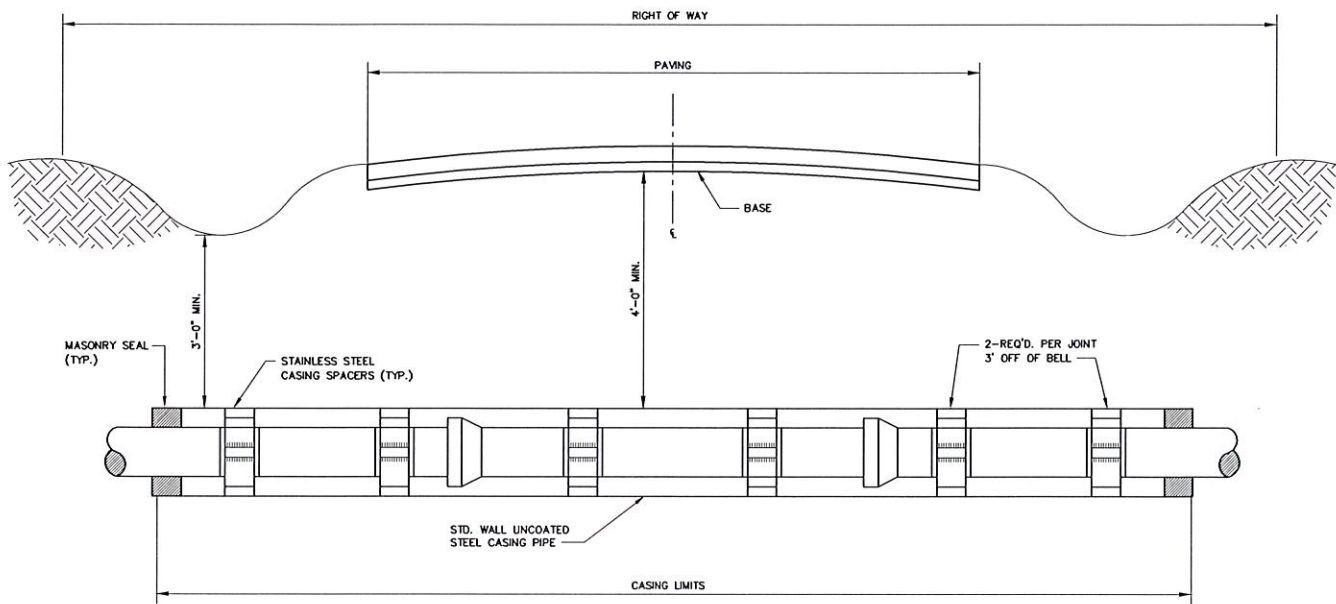
## TYPICAL PAVEMENT CUT

U-0002

DESIGNED: J.F.C. DRAWN: B.J.J.  
DATE: 12/2024 SCALE: N.T.S.

BY  
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NOTE:  
STEEL CASING SHALL EXTEND 3' PAST E OF DITCH



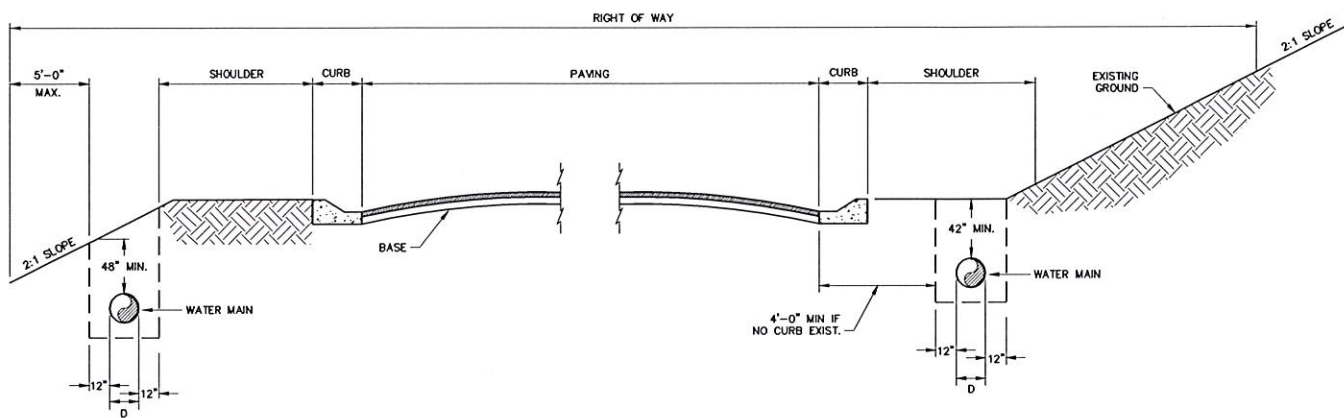
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## TYPICAL ROAD CROSSING

U-0003

DESIGNED: J.F.C. DRAWN: B.J.J.  
DATE: 12/2024 SCALE: N.T.S.

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TYPICAL RIGHT-OF-WAY INSTALLATION  
N.T.S.

TYPICAL SHOULDER INSTALLATION  
N.T.S.



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## TYPICAL RIGHT-OF-WAY AND SHOULDER INSTALLATIONS

U-0004

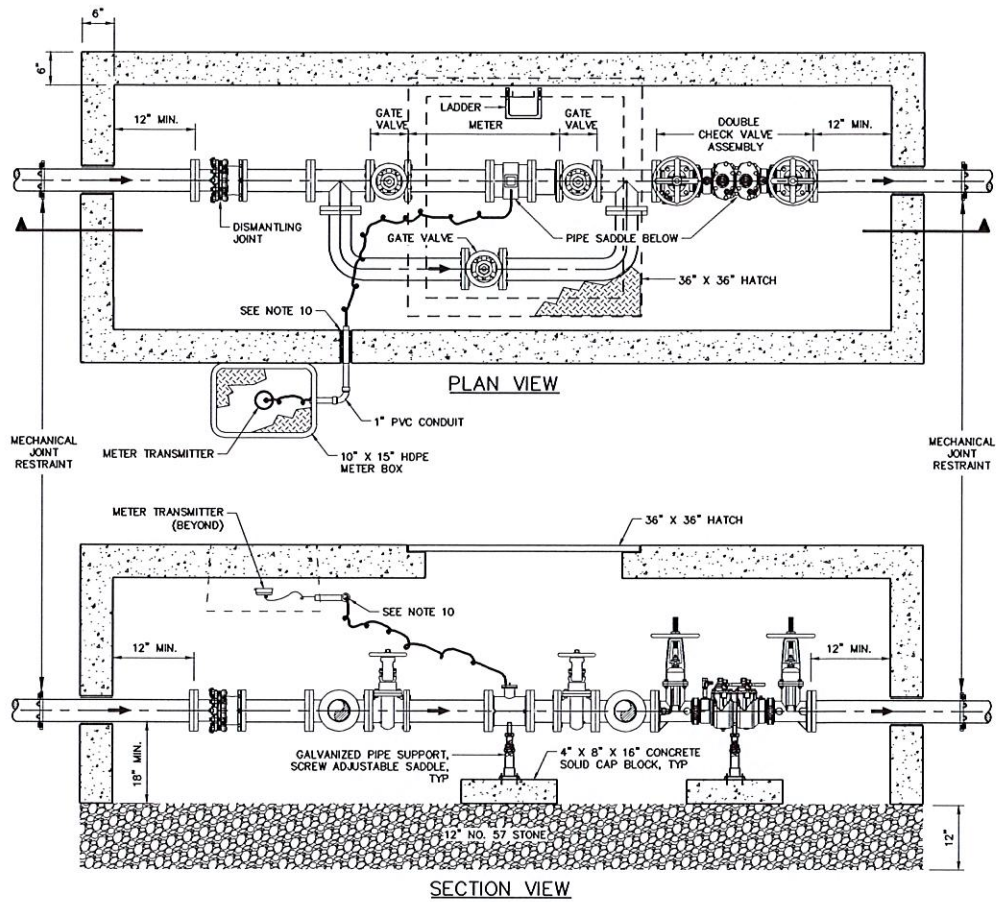
DESIGNED: J.F.C. DRAWN: B.J.J.  
DATE: 12/2024 SCALE: N.T.S.

BY  
REVISIONS  
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NOTES:

1. VAULT MUST BE CONSTRUCTED TO MEET ASTM C858, SPECIFICATION FOR UNDERGROUND PRECAST CONCRETE UTILITY STRUCTURES. VAULTS THAT WILL BE SUBJECTED TO REGULAR TRAFFIC OF ANY TYPE, CONCENTRATED LIVE LOADS AND/OR SURFACE SURCHARGE LOADS WILL REQUIRE A DETAILED VAULT DESIGN FROM THE DEVELOPER SUBMITTED FOR FCWS APPROVAL PRIOR TO CONSTRUCTION.
2. VAULT AND LID THICKNESSES SHALL BE A MINIMUM OF 6". INSIDE HEIGHT OF VAULT SHALL BE A MINIMUM OF 6 FEET.
3. VAULT MUST BE OF SUFFICIENT SIZE TO MAINTAIN A MINIMUM 18" CLEARANCE BETWEEN INTERIOR WALLS AND METER, BACKFLOW AND BYPASS ASSEMBLIES.
4. VAULT SHALL BE PLACED ON A 12" BASE OF NO. 57 COMPACTED STONE.
5. VAULT LID SHALL BE EQUIPPED WITH A 36" X 36" ACCESS HATCH OFFSET TO ONE SIDE ALIGNED WITH INTERIOR LADDER.
6. VAULT INLET/OUTLET PENETRATIONS SHALL BE SEALED WITH NON-SHRINK GROUT.
7. ALL PIPE AND FITTINGS SHALL BE DUCTILE IRON. ALL FITTINGS SHALL BE FLANGED.
8. METER SHALL BE BADGER E-SERIES G2 ULTRASONIC METER WITH DOUBLE CHECK VALVE ASSEMBLY BACKFLOW PREVENTER.
9. PROVIDE A MINIMUM OF 10 FEET OF UNIMPEDED ACCESS TO ALL SIDES OF THE VAULT. IF THIS CANNOT BE ACHIEVED BY PLACEMENT IN THE RIGHT-OF-WAY, INCLUDE A RECORDED PERMANENT EASEMENT TO PROVIDE THE NECESSARY ACCESS.
10. NO SLEEVE REQUIRED FOR CONDUIT. PENETRATION SHALL BE SEALED WITH NON-SHRINK GROUT.

METER SIZE	BYPASS PIPE SIZE
3"	3"
4"	4"
6"	4"
8"	4"
10"	6"
12"	6"



**FAYETTE** County  
**Water**  
System

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## STANDARD VAULT DETAIL

W-0001

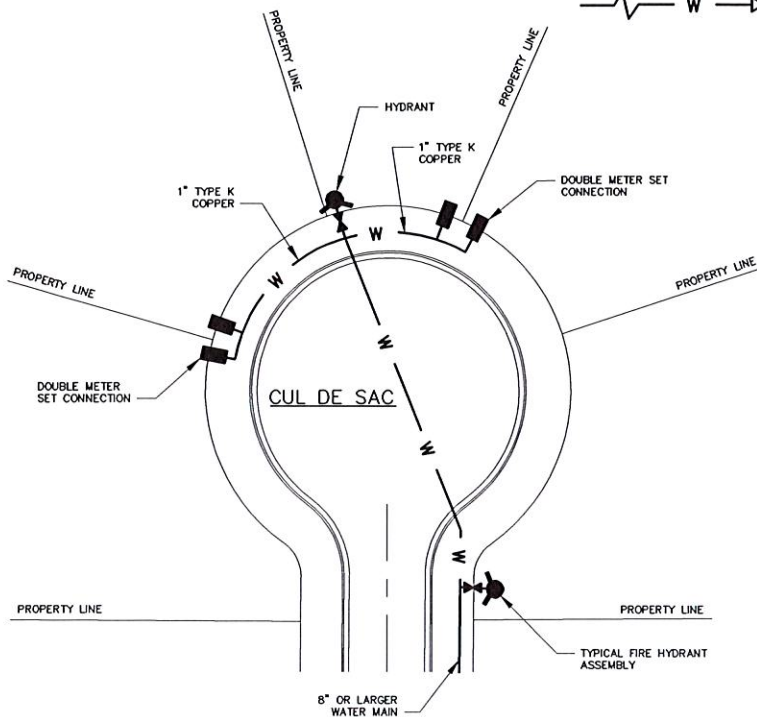
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DATE: 12/2024 SCALE: N.T.S.

BY  
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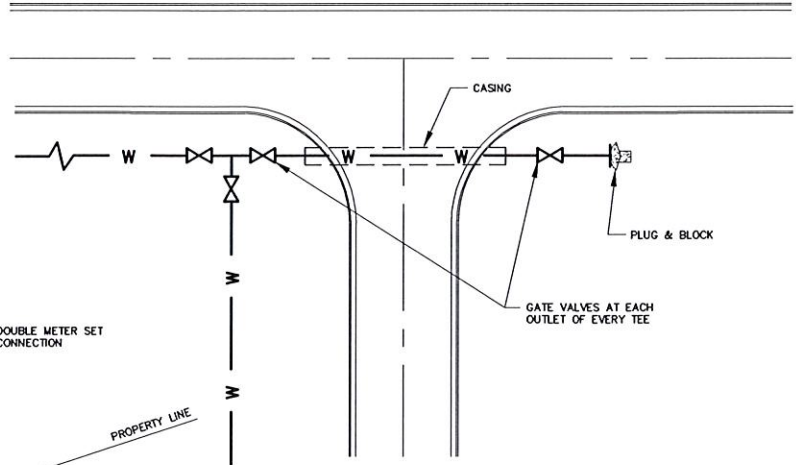


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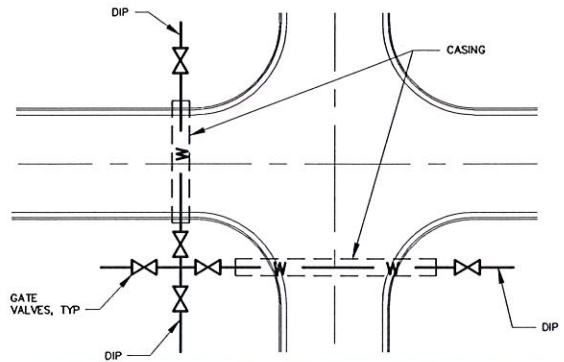
1. DUCTILE IRON TO EXTEND BEYOND ALL VALVES & FITTINGS (MIN 1 JOINT)
2. NO TAPS SHALL BE MADE UNDER PAVEMENT



TYPICAL STREET INTERSECTION



STANDARD VALVE LOCATIONS AT CROSS TYPE INTERSECTION



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TYPICAL STREET CROSSINGS

W-0002

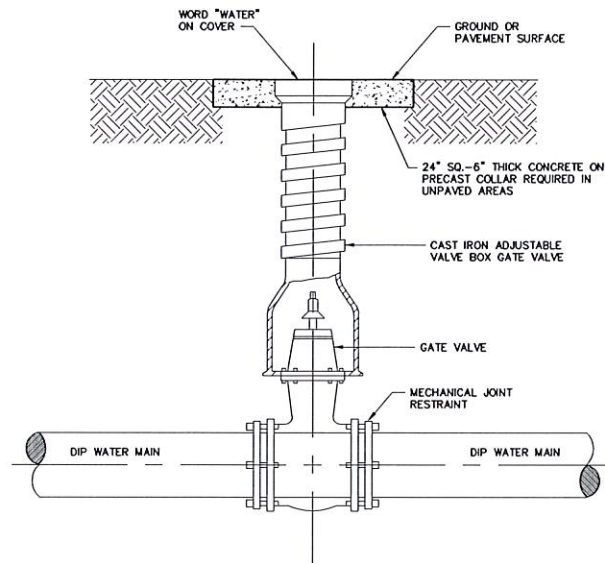
DESIGNED: J.F.C.

DRAWN: B.J.J.

DATE: 12/2024

SCALE: N.T.S.

BY: REVISIONS DATE



NOTE:  
WHERE VALVE MARKERS ARE REQUIRED, INSTALL  
PRECAST REINFORCED CONCRETE SQUARE POST,  
MINIMUM 4" SQUARE AND 6 FEET LONG, ENGRAVED  
WITH WORD "VALVE" IN 2" HIGH LETTERING.



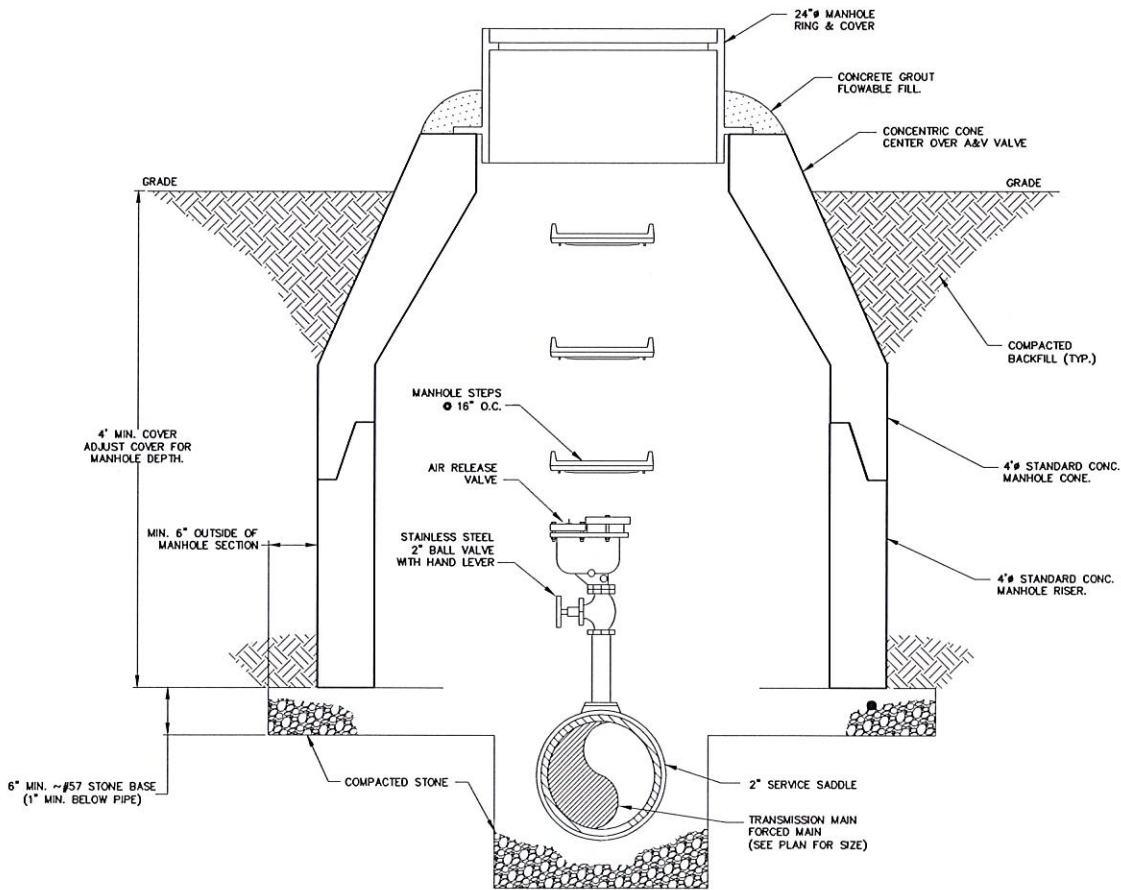
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## WATER LINE VALVE INSTALLATION

# W-0003

DESIGNED: J.F.C.	DRAWN: B.J.J.
DATE: 12/2024	SCALE: N.T.S.

BY	REVISIONS	DATE



**FAYETTE** County  
**Water**  
System

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## AIR RELEASE VALVE DETAIL

W-0004

DESIGNED: J.F.C.

DRAWN: B.J.J.

DATE: 12/2024

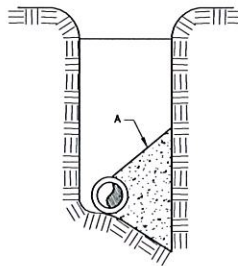
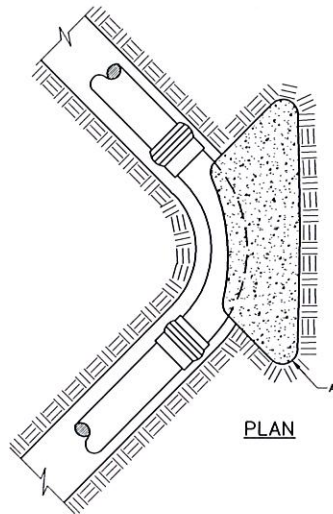
SCALE: N.T.S.

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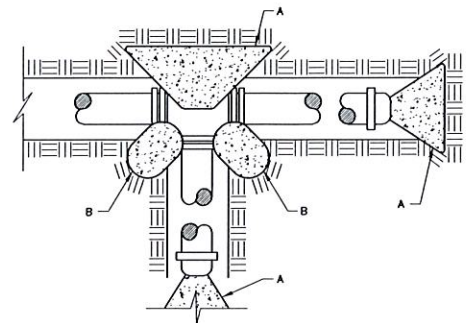
PIPE SIZE	2"	4"	6"	8"	10"	12"	14"	16"
A*	1	1.5	3	6	9	12	16	20
B*	1	1	2	4	5	8	10	12

\*CHART NO.'S ARE SQ. FT. BEARING ON UNDISTURBED MATERIAL

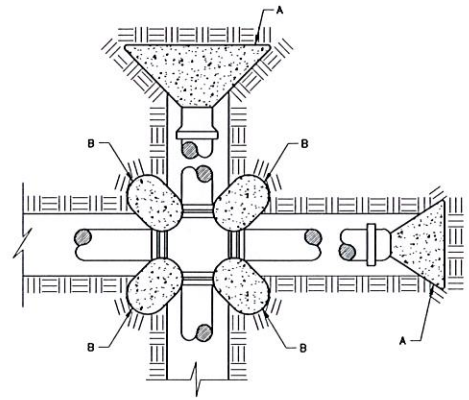


NOTES:

1. POUR THRUST BLOCKS AGAINST UNDISTURBED MATERIAL. WHERE TRENCH WALL HAS BEEN DISTURBED, EXCAVATE LOOSE MATERIAL & EXTEND THRUST BLOCK TO UNDISTURBED MATERIAL.
2. ON BENDS & TEES: EXTEND THRUST BLOCKS FULL LENGTH OF FITTING.
3. PLACE BOARD IN FRONT OF ALL PLUGS BEFORE POURING THRUST BLOCK.
4. CONCRETE SHALL BE 3000 P.S.I.
5. BLOCKING SHALL BE CONSTRUCTED AS PER AWWA STANDARD C600-SECTION 12.3 OR LATEST REVISION.



TEE W/ 1 OR 2 PLUGS



CROSS TEE OR CROSS TEE  
WITH 1 OR 2 PLUGS



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## THRUST BLOCK DETAIL

W-0005

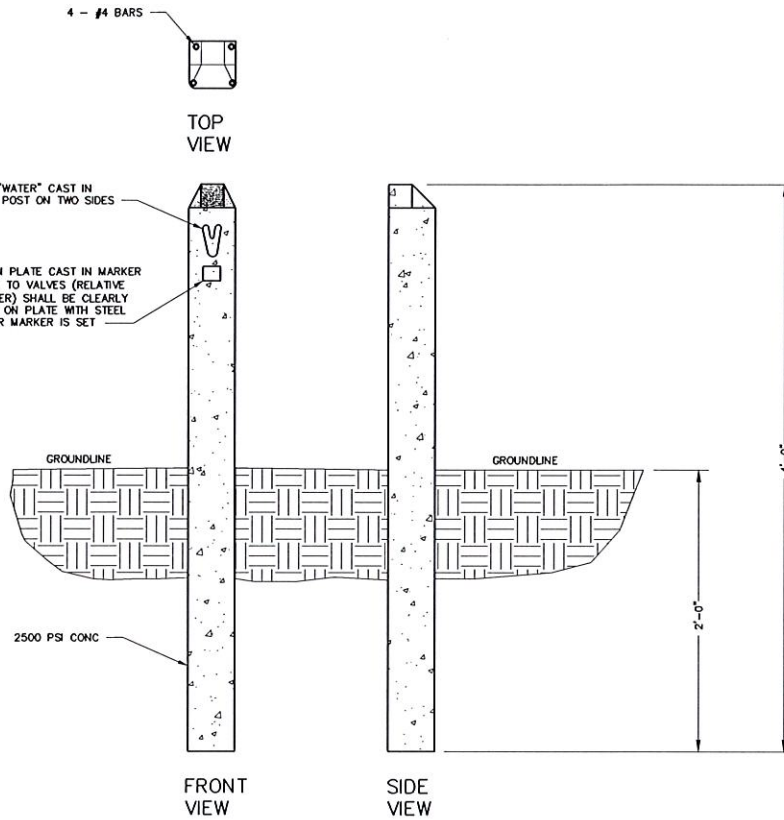
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DRAWN: B.J.J.

DATE: 12/2024

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BY: REVISIONS DATE



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## VALVE MARKER DETAIL

W-0006

DESIGNED: J.F.C. DRAWN: B.J.J.  
DATE: 12/2024 SCALE: N.T.S.

BY	REVISIONS	DATE

36" MINIMUM

36" MINIMUM

36" MINIMUM CLEARANCE FROM CENTER OF HYDRANT

C

D

FINISHED GRADE

A

B

57 STONE TO COVER (12" MINIMUM BELOW) APPROXIMATELY 10 CUBIC FEET.

H

G

F

MINIMUM V.O. 5 1/2"

This technical drawing illustrates a hydrant assembly in cross-section. The assembly includes a main vertical riser pipe (C) with a side connection (D). Below the ground level (finished grade), the riser continues as a flexible section (B) leading to a valve assembly (F). The valve is connected to a horizontal pipe (G) that is surrounded by 57 stone (H). A label indicates that 57 stone should cover the valve area to a depth of 12 inches minimum, with approximately 10 cubic feet of stone required. Various clearance and depth specifications are provided: 36 inches minimum clearance from the center of the hydrant, and a minimum vertical offset (V.O.) of 5 1/2 inches for the stone cover.

A technical diagram of a fire hydrant assembly. At the top is a circular fire hydrant with a central nozzle and four side ports. Below it is a vertical riser pipe. A gate valve is located on the riser pipe, indicated by a label 'GATE VALVE' with an arrow. Below the gate valve is another circular component, possibly a check valve or another valve. At the bottom, the riser pipe connects to a horizontal main line. The connection point is labeled with a circled 'E'. The main line has two horizontal branches, each ending in a shaded circular cap. The label 'FIRE HYDRANT' has an arrow pointing to the top hydrant. The label 'ANCE HYDRANT' is partially visible on the left side.

BILL OF MATERIALS	
ITEM	DESCRIPTION
A	CONCRETE COLLAR
B	CAST IRON VALVE BOX
C	M&H 129 OR APPROVED EQUAL
D	FIRE HYDRANT (3 WAY)
E	FIRE HYDRANT TEE
F	6" GATE VALVE
G	ANCHOR COUPLING OR GRADE LOC HYDRANT ADAPTER
H	GRAVEL (14 CUBIC FT. MIN)

GENERAL NOTES:

1. STEAMER CONNECTION TO FACE STREET
2. HYDRANT SET AS CLOSE TO R/W AS PRACTICAL
3. VALVE BOX ADJUSTED TO GRADE
4. CONC. COLLAR AROUND VALVE BOX
5. F.H. ADJUSTED TO GRADE WITH GRADE LOK ANCHOR COUPLING, OR APPROVED EQUAL



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## TYPICAL FIRE HYDRANT INSTALLATION

W-0007

DESIGNED: J.F.C.

DRAWN: B.J.J.

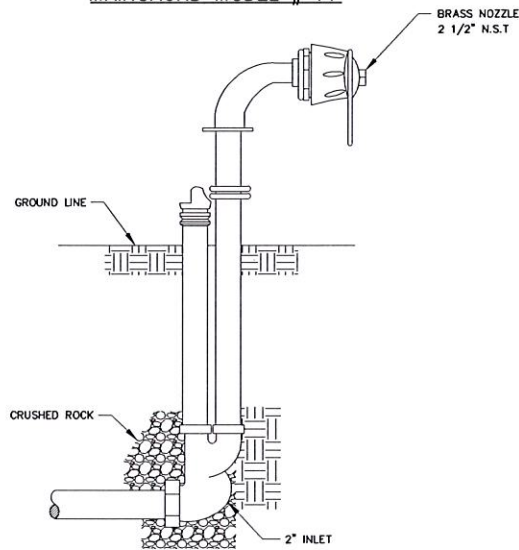
DATE: 12/2024

SCALE: N.T.S.

2	3	2
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MAINGAUD MODEL # 77



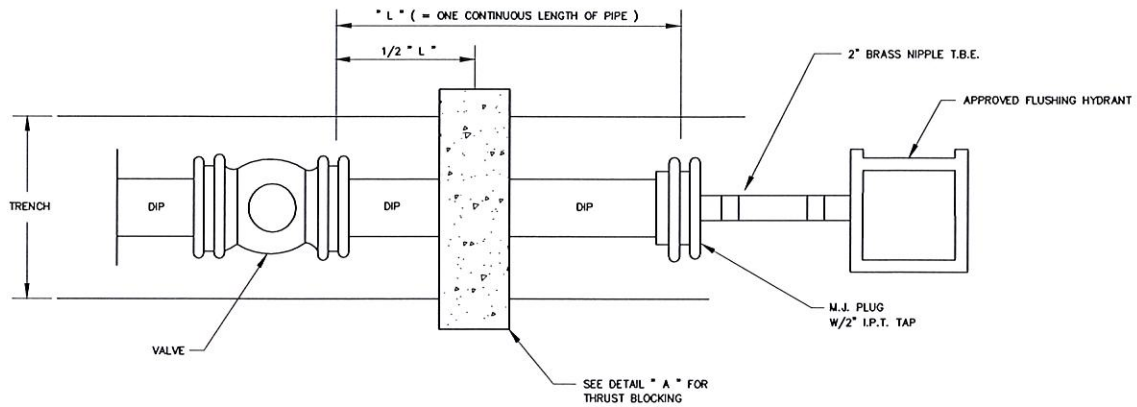
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APPROVED FLUSHING  
HYDRANTS

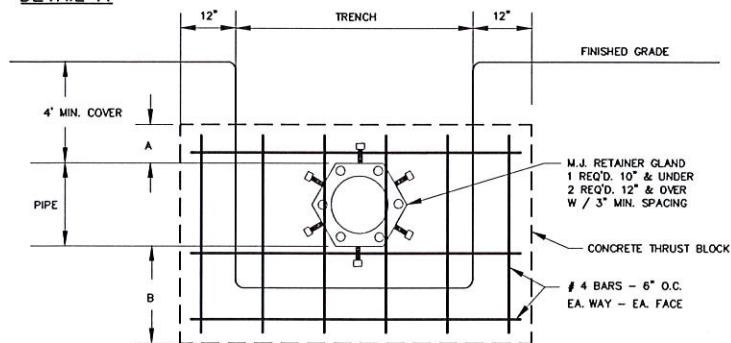
W-0008

DESIGNED: J.F.C.	DRAWN: B.J.J.
DATE: 12/2024	SCALE: N.T.S.

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DETAIL A



DIA.	" A "	" B "
20"	2' - 0"	2' - 0"
16"	1' - 6"	2' - 0"
14"	1' - 6"	2' - 0"
12"	1' - 6"	2' - 0"
10"	1' - 0"	2' - 0"
8"	1' - 0"	2' - 0"
6"	1' - 0"	2' - 0"
4"	1' - 0"	2' - 0"

NOTE:  
THE ABOVE FIGURES ARE BASED ON SOIL  
BEARING CAPACITY OF 2000'/S.F.



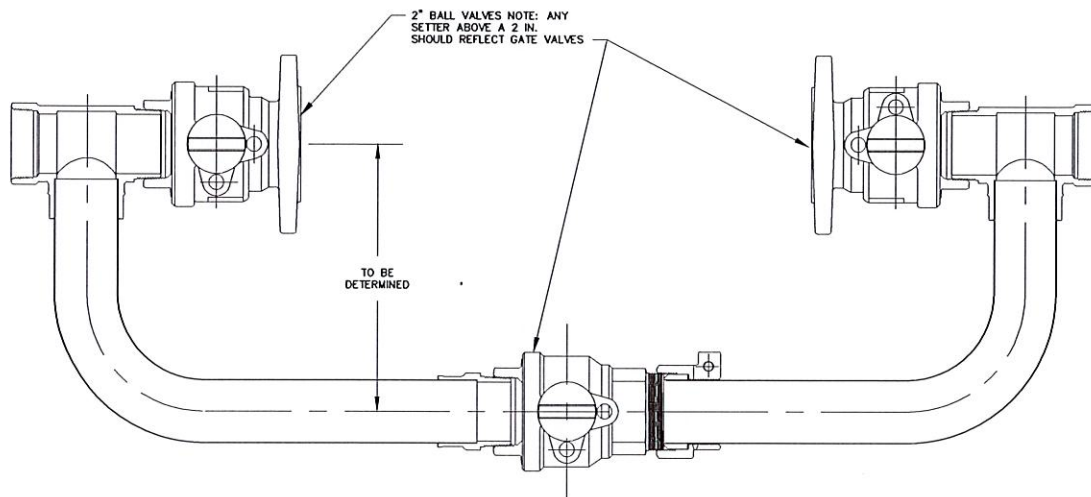
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## TERMINAL END DETAIL

W-0009

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## BYPASS LINE ASSEMBLY

W-0010

DESIGNED: J.F.C.

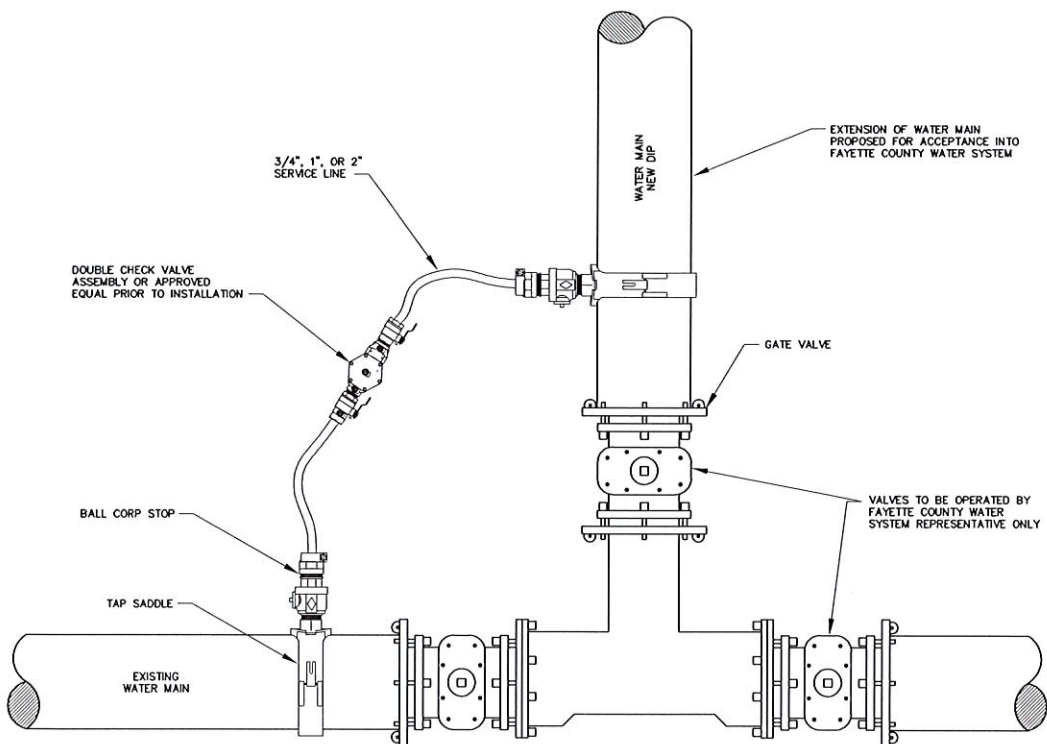
DRAWN: B.J.J.

DATE: 12/2024

SCALE: N.T.S.

BY	REVISIONS	DATE





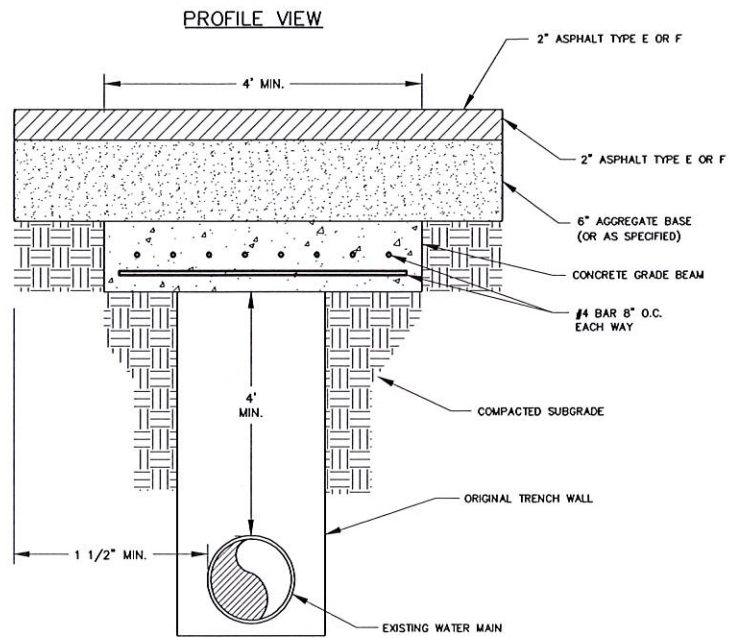
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## APPROVED METHOD FOR FILLING NEW WATER MAINS

# W-0011

DESIGNED: J.F.C. DRAWN: B.J.J.  
DATE: 12/2024 SCALE: N.T.S.

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REVISIONS  
DATE



NOTE:  
THIS DETAILS APPLICATION USED FOR  
WATER MAIN PROTECTION FOR ROADS  
CONSTRUCTED OVER EXISTING WATER MAINS



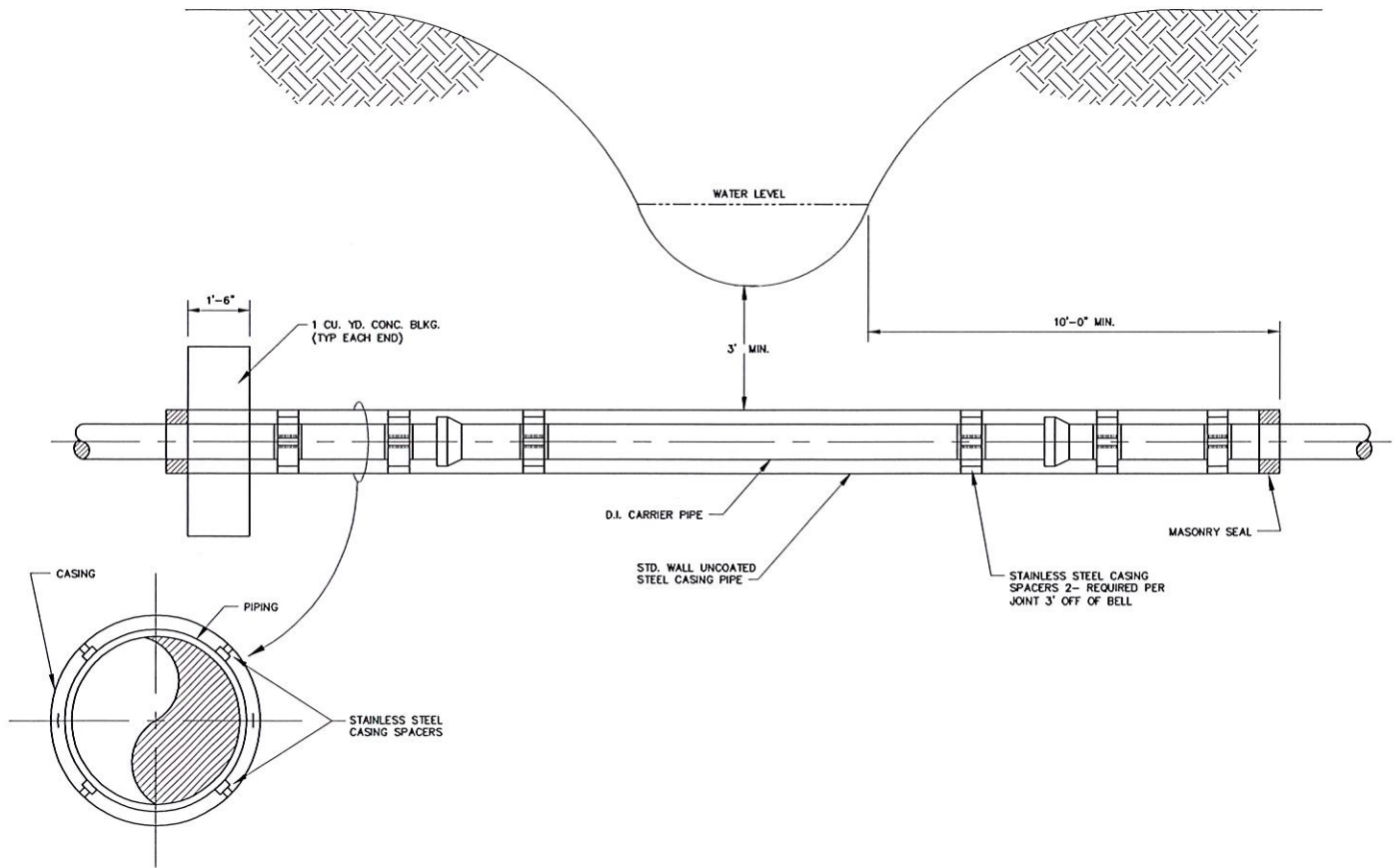
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## CONCRETE GRADE BEAM DETAIL

# W-0012

DESIGNED: J.F.C.	DRAWN: B.J.J.
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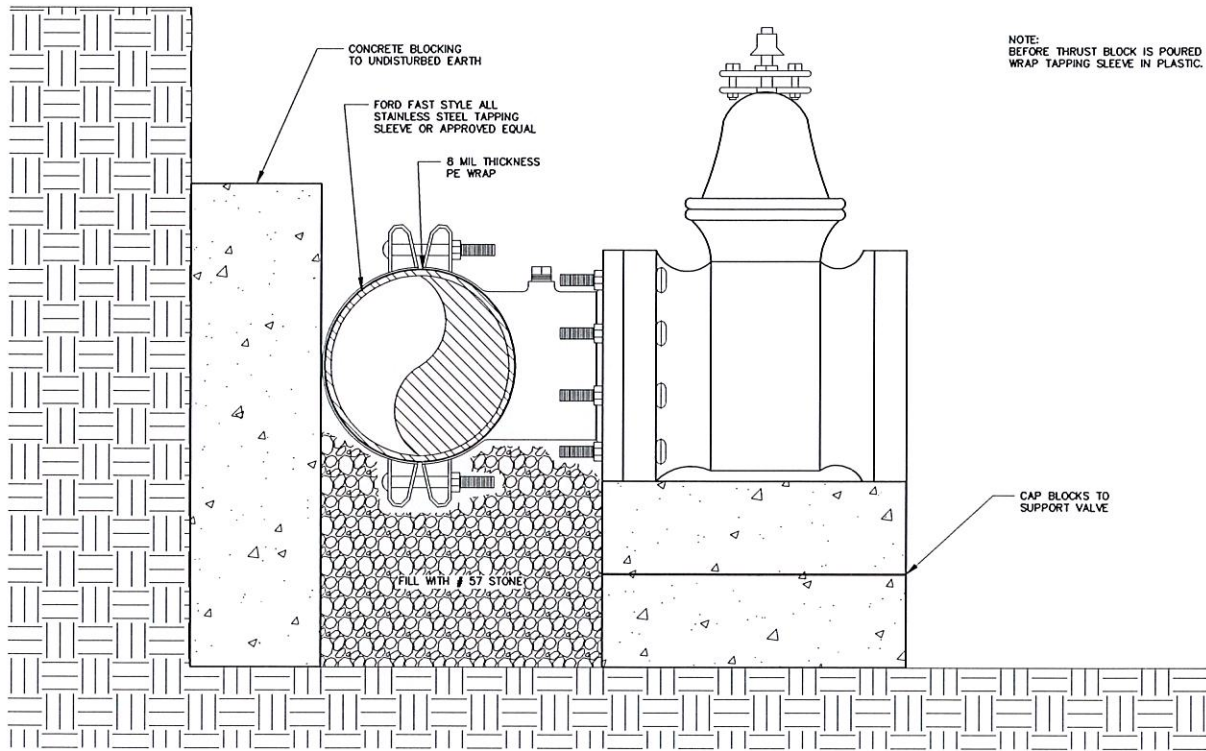
## TYPICAL CREEK CROSSING

W-0013

DESIGNED: J.F.C. DRAWN: B.J.J.  
DATE: 12/2024 SCALE: N.T.S.

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## WATER LINE VALVE TAPPING SLEEVE

# W-0014

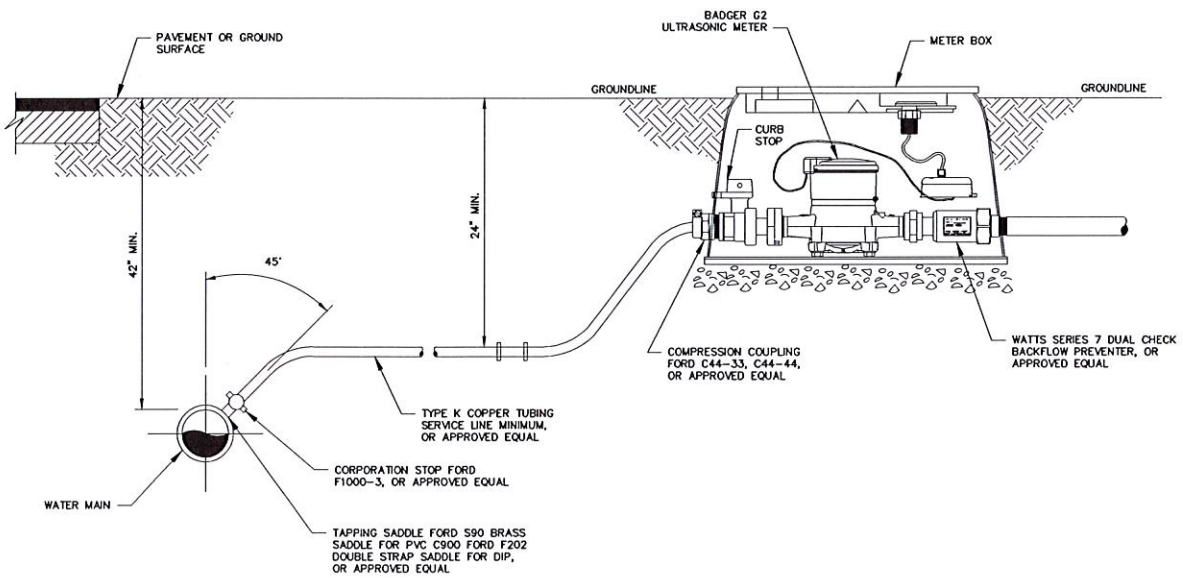
DESIGNED: J.F.C.

DRAWN: B.J.J.

DATE: 12/2024

SCALE: N.T.S.

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MINIMUM DEPTH OF METER: 9"  
MAXIMUM DEPTH OF METER: 11"



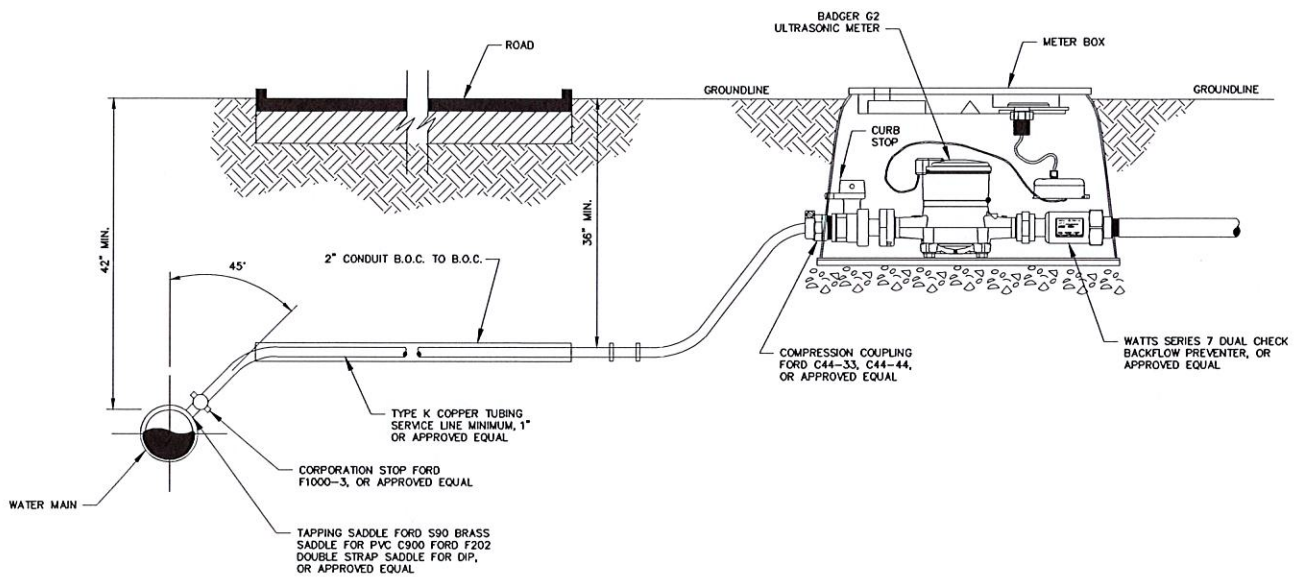
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## RESIDENTIAL SHORT SIDE SERVICE INSTALLATION

W-0015

DESIGNED: J.F.C. DRAWN: B.J.J.  
DATE: 12/2024 SCALE: N.T.S.

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MINIMUM DEPTH OF METER: 9"  
MAXIMUM DEPTH OF METER: 11"



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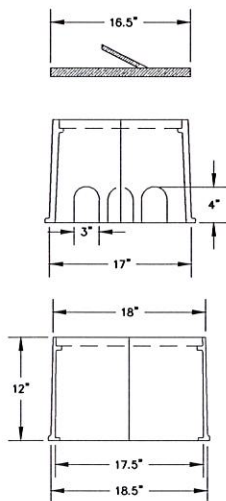
## RESIDENTIAL LONG SIDE SERVICE INSTALLATION

W-0016

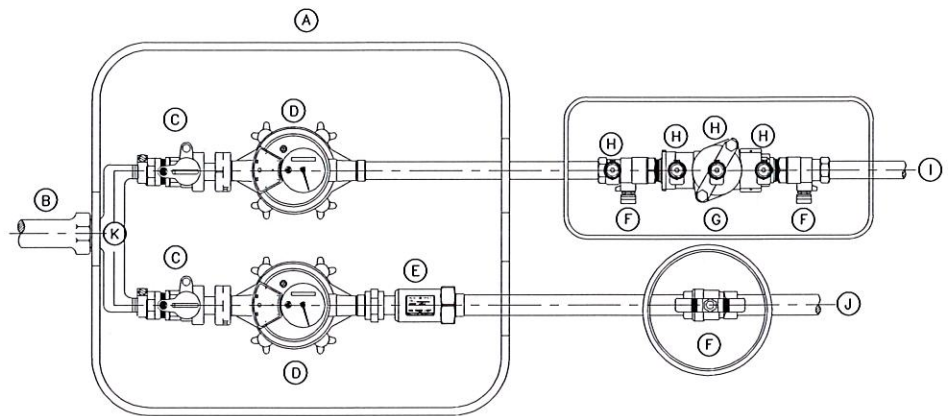
DESIGNED: J.F.C. DRAWN: B.J.J.  
DATE: 12/2024 SCALE: N.T.S.

BY  
REVISIONS  
DATE





METER BOX DETAIL



- A. LOCATABLE POLYPROPYLENE LID AND BODY WITH TWO 2" HOLES FOR TOUGH READ CAPABILITY (DEVELOPER INSTALLED)
- B. TYPE K COPPER SERVICE LINE CONNECTION (DEVELOPER INSTALLED)
- C. CURB STOP-FORD B43-332W OR APPROVED EQUAL (DEVELOPER INSTALLED )  
MINIMUM DEPTH OF CURB STOP PLACEMENT: 9" FROM GROUND SURFACE TO CENTER OF FLOW MAXIMUM DEPTH OF CURB STOP PLACEMENT: 11" FROM GROUND SURFACE TO CENTER FLOW
- D. 3/4" BADGER G2 ULTRASONIC WATER METER
- E. DUAL CHECK- WILKINS 700 IUFMX34UF OR APPROVED EQUAL
- F. 3/4" WATTS BRASS FBVSS1H BALL VALVE WITH STAINLESS STEEL "T" HANDLE OR APPROVED EQUAL
- G. DOUBLE CHECK VALVE
- H. TEST COCKS
- I. IRRIGATION LINE
- J. DOMESTIC LINE
- K. 1" x 3/4" x 7.5" BRANCH PIECE (DEVELOPER INSTALLED)



245 McDonough Road  
Fayetteville, GA 30214  
770.320.6020

## DUAL RESIDENTIAL AND IRRIGATION INSTALLATION

W-0017

DESIGNED: J.F.C.

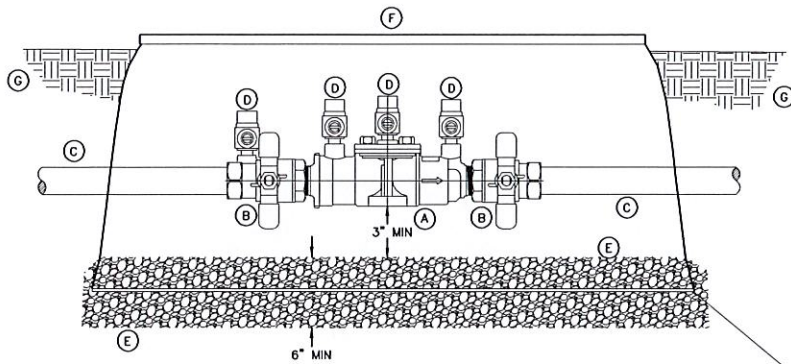
DRAWN: B.J.J.

DATE: 12/2024

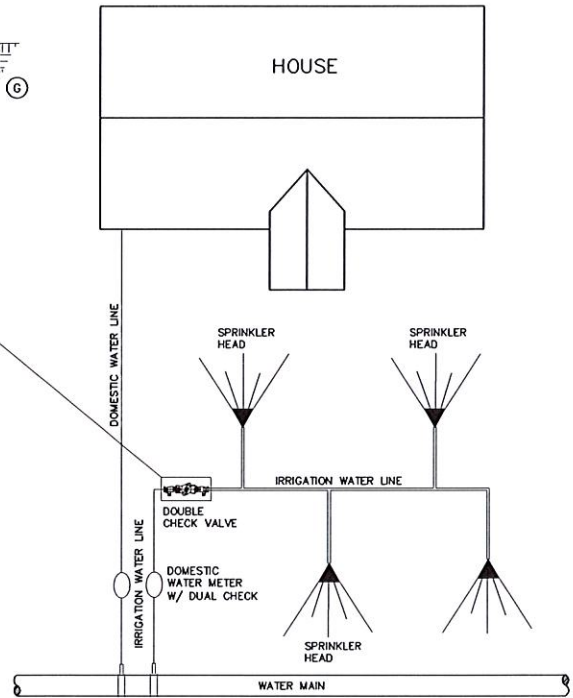
SCALE: N.T.S.

BY  
REVISIONS  
DATE

# IRRIGATION METER PLAN VIEW



- A. DOUBLE CHECK VALVE
- B. 3/4\"/>
- C. WATER LINE
- D. TEST COCKS
- E. #57 STONE 6\"/>
- F. 12\"/>
- G. COMPACTED EARTH



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## RESIDENTIAL IRRIGATION METER INSTALLATION

W-0018

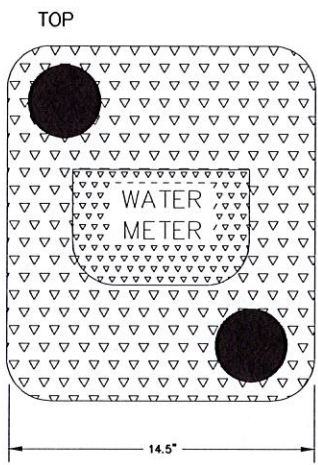
DESIGNED: J.F.C.

DRAWN: B.J.J.

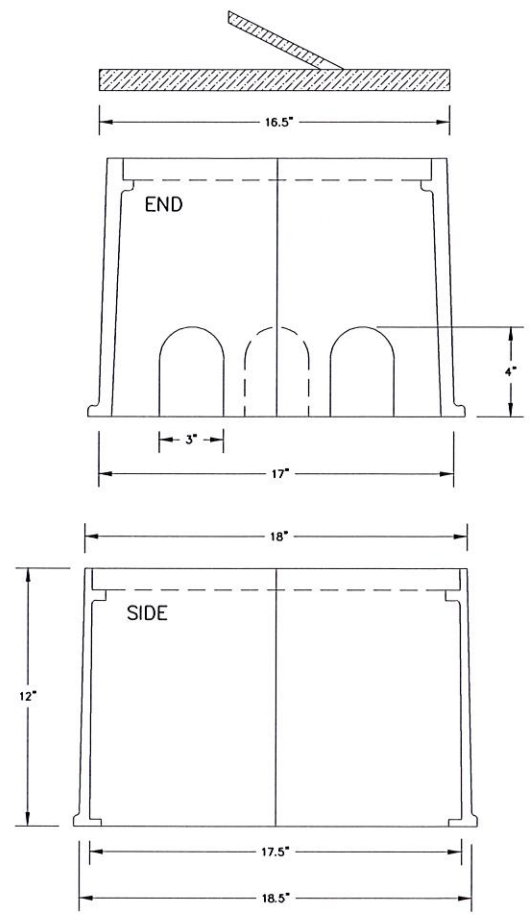
DATE: 12/2024

SCALE: N.T.S.

BY  
REVISIONS  
DATE



LOCATABLE POLYPROPYLENE LID AND BODY WITH TWO 2" HOLES FOR TOUCH READ CAPABILITY. DEVELOPER INSTALLED.



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# DUAL RESIDENTIAL AND IRRIGATION METER BOX

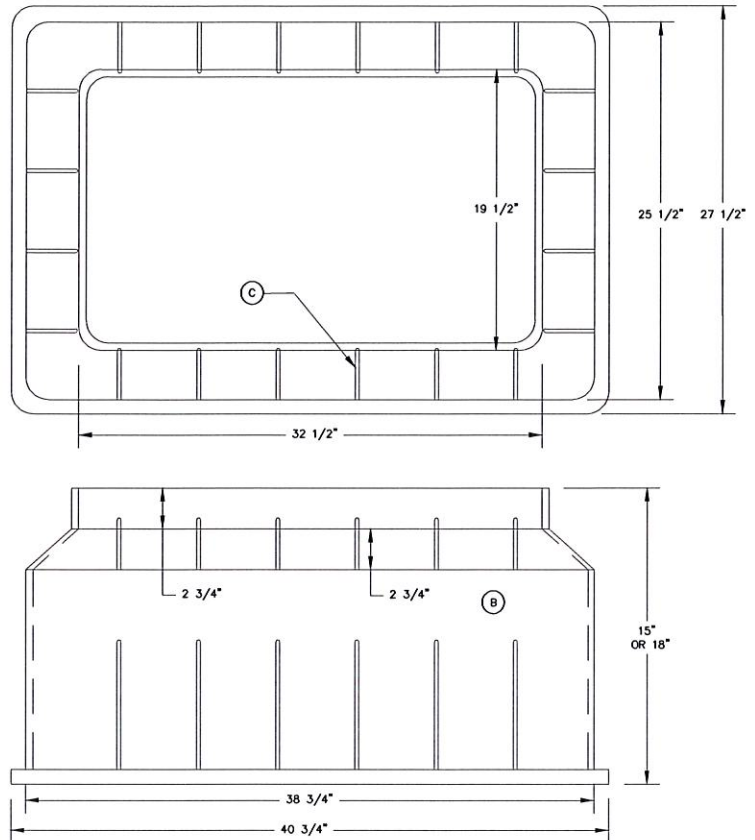
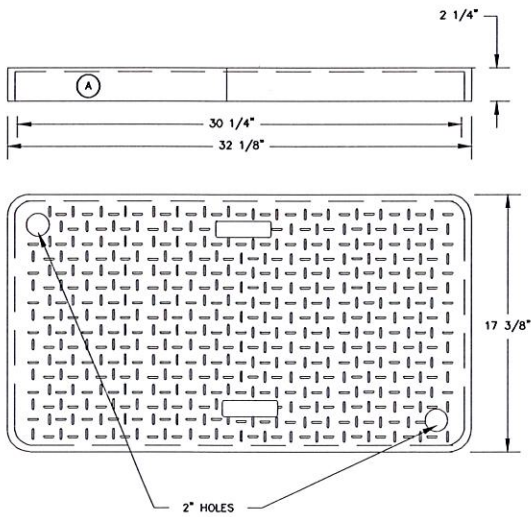
W-0019

DESIGNED: J.F.C.	DRAWN: B.J.J.
DATE: 12/2024	SCALE: N.T.S.

BY	REVISIONS	DATE



- A. INJECTION MOLDED OF STRUCTURAL FOAM POLYOLEFIN MATERIAL  
 B. BODY: 17" x 30", TAPERED AND WALL THICKNESS OF .320"  
 C. BOX BODY SHALL HAVE STRUCTURAL SUPPORT RIBS ON THE UNDERSIDE OF THE SEAT, MINIMUM THICKNESS OF .250"



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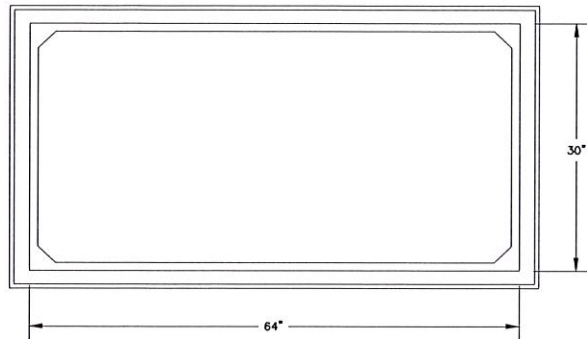
STANDARD 1" BADGER G2  
 ULTRASONIC METER WITH  
 DOUBLE CHECK VALVE  
 ASSEMBLY, METER BOX AND LID

W-0020

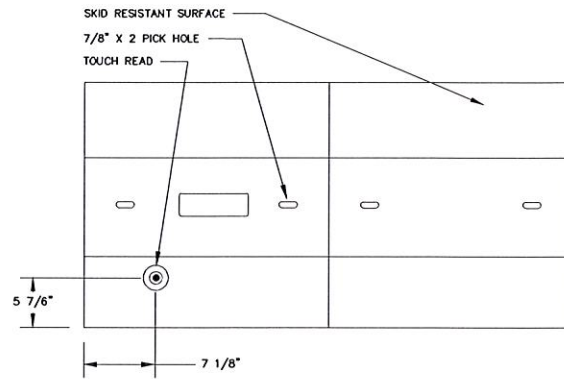
DESIGNED: J.F.C. DRAWN: B.J.J.  
 DATE: 12/2024 SCALE: N.T.S.

BY: REVISIONS  
 DATE

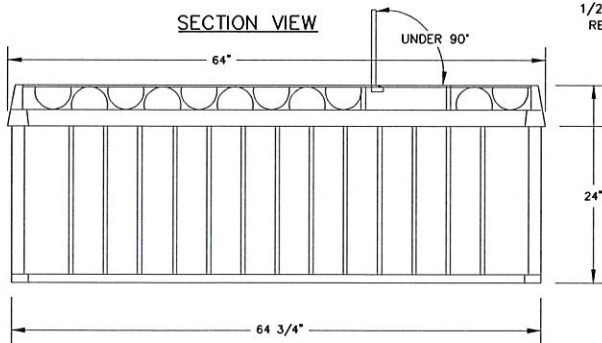
TOP VIEW



TWO PIECE COVER

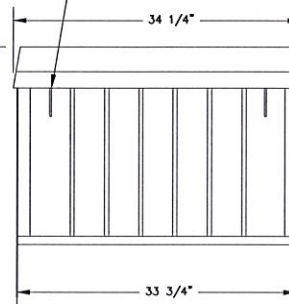


SECTION VIEW



1/2 DIA BOLTS (4X) TO  
RETAIN LIFTING SLINGS

END VIEW



- MATERIAL: FIBERGLASS REINFORCED POLYMER  
CONCRETE & FIBERGLASS REINFORCED POLYMER.
- COLOR: CONCRETE GRAY
- LOCATABLE TRAFFIC RATED LID



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# STANDARD 2" AND 1-1/2" BADGER G2 ULTRASONIC METER BOX AND LID

W-0021

DESIGNED: J.F.C. DRAWN: B.J.J.  
DATE: 12/2024 SCALE: N.T.S.

BY: REVISIONS DATE

EXHIBIT A  
TASK ORDER

**CONTRACTOR NAME**

MASTER CONTRACT #:  
TASK ORDER #: XXXXX

Total Task Order Amount: \$ \_\_\_\_\_

**Task Order Funding Project Information:**

County: Fayette

Location Description / Address:

The above project task order is made and entered into as of \_\_\_\_\_, (hereinafter referred to as "Task Order Effective Date") by and between Fayette County through its Office listed in Item # I. (responsibilities and obligations pursuant to this task order will be performed by the individuals identified in Item # I of this task order), hereinafter referred to as the County;

AND

**TBD**

hereinafter referred to as the Contractor.

This task order is made a part of the Water System On-Call Master Contract referenced above between the County and the Contractor.

**I. COUNTY AND CONTRACTOR CONTACT INFORMATION:**

The County's mailing address and telephone number for correspondence, reports, and other matters relative to this contract, except as otherwise indicated, are:

Fayette County Project Manager:

Consultant Project Manager:

Fayette County Water System

TBD

Attn:

Attn:

115 McDonough Road

Fayetteville, GA 30214

Telephone #:

Telephone #:

E-Mail:

E-Mail:

County's Contract Specialist:

Fayette County Purchasing

Attn: Sherry White

140 Stonewall Avenue West, Suite 204

Fayetteville, GA 30214

Telephone #: 770-305-5314

E-Mail: [swhite@fayettecountyga.gov](mailto:swhite@fayettecountyga.gov)

**PLEASE ADHERE TO THE FORMATTING STYLE BELOW TO PROVIDE REQUIRED INFORMATION; ACRO-  
NYMS ARE TO BE DEFINED WHEN UTILIZED:**



II. SCOPE OF SERVICES:

III. WORK SCHEDULE:

The Contractor shall not begin any work on a Task Order until authorized in writing by the County through a Notice to Proceed, which shall provide an effective date for the start of services. Any work performed outside the terms and conditions of this Task Order, or conducted before the Notice to Proceed has been issued by the Department, will not be considered for payment.

The Consultant must complete all work between the date of the Notice to Proceed (NTP) and the completion date(s) specified on the Task Order. In no instance shall any work be authorized beyond the completion date specified unless specifically authorized in writing by a task order time extension. All work specified in this task order shall be substantially complete within \_\_\_\_\_ calendar days and final complete within \_\_\_\_\_ calendar days from the Notice to Proceed date, not to exceed the master professional services agreement expiration date.

IV. COMPENSATION (PAYMENT) METHODS:

This is a unit price contract, where payment will be based on the actual quantities of work completed at the unit price per unit of measurement as listed in the Master Contract Schedule of Values.

At the end of each calendar month, or the completion of a Project Task Order, the total value of Items complete in place will be estimated by the County and certified for payment. Such estimate is approximate only and may not necessarily be based on detailed measurements. Value will be computed on the basis of Contract Item Unit Prices or on percentage of completion of lump sum Items.

**NOTE:** It is the responsibility of the Contractor to account for costs appropriately and maintain adequate records and supporting documentation to demonstrate costs claimed to have incurred are allocable to this task order and comply with applicable cost principles.

V. ATTACHMENT LISTING:

A. Task Order Cost Proposal

IN WITNESS WHEREOF, said parties have hereunto affixed their signatures the day and year above first written:

CONTRACTOR

FAYETTE COUNTY, GEORGIA

Signature: \_\_\_\_\_

Signature: \_\_\_\_\_

Print Name: \_\_\_\_\_

Print Name: \_\_\_\_\_

Title: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

Date: \_\_\_\_\_

# ATTACHMENT A

## TASK ORDER COST PROPOSAL SUMMARY

TASK ORDER #01

PAY ITEM	TASK DESCRIPTION	TASK ORDER			
		QUANTITY	UNIT MEASURE	UNIT PRICE	TOTAL SCHEDULED VALUE
151-1000	MOBILIZATION		LS		
150-1000g	TRAFFIC CONTROL, MUTCD TA-11		ED		
202-1000	CLEARING & GRUBBING		AC		
210-9999	GRADING		SF		
310-1101	GR AGGR BASE CRS, INCL MATL		TN		
402-3103	RECYCLED ASPH CONC 9.5 MM SUPERPAVE, TYPE II, GP 2 ONLY, INCL BITUM MATL & H LIME		TN		
402-3190	RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME		TN		
413-0750	TACK COAT		GL		
441-6012	CONC CURB & GUTTER 6 IN X 24 IN TP 2		LF		
550-1240	STORM DRAIN PIPE, RCP, 24 IN, H 1-10		LF		
550-3324	SAFETY END SECTION 24 IN, STORM DRAIN, 4:1 SLOPE		EA		
603-2180	STN DUMPED RIP RAP, TP 3, 12 IN		SY		
603-7000	PLASTIC FILTER FABRIC		SY		
668-1100	CATCH BASIN, GP 1		EA		
670-1060	WATER MAIN, 6 IN		LF		
670-1650	BACKFLOW PREVENTION ASSEMBLY		EA		
670-2002	VALVE MARKER		EA		
670-2003	AIR RELEASE VALVE ASSEMBLY		EA		
670-2060	GATE VALVE, 6 IN		EA		
670-2500	INSERTION VALVE -		EA		
670-2700	ABANDONMENT OF WATER VALVES		EA		
670-2800	COMBINATION AIR VALVES		EA		
670-3000	INSTALL AND REMOVE TEMPORARY WATER CONNECTION		EA		
670-3066	TAPPING SLEEVE & VALVE ASSEMBLY, 6 IN X 6 IN		EA		
670-9710	RELOCATE EXIST FIRE HYDRANT		EA		
700-6910	PERMANENT GRASSING		AC		
700-7000	AGRICULTURAL LIME		TN		
700-8000	FERTILIZER MIXED GRADE		TN		
700-8100	FERTILIZER NITROGEN CONTENT		LB		
TOTAL TASK ORDER VALUE					\$