



**QUALITY WATER  
QUALITY SERVICE**

**REQUEST FOR BID**

**July 2014**

**Annual Contract For Pipe Repairs and Replacements**

**CLAYTON COUNTY WATER AUTHORITY  
1600 Battle Creek Rd  
Morrow, GA 30260**

**Bid Opening: Thursday, August 14, 2014 at 1:00 p.m. (local time)**

**Non-Mandatory  
Pre-Bid Meeting: Thursday, July 31, 2014 at 2:00 p.m. (local time)**

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### **Attachments**

Interim Waiver and Release Upon Payment  
Waiver and Release Upon Final Payment

### **Details**

Steel Traffic Plate Installation  
Pipe Installation on Grade (Up to 1" Copper)  
Pipe Installation on Grade (1.5" or 2" Copper)  
Pipe Installation on Grade (PVC, HDPE)  
Pipe Installation on Grade (DI, RC, CM)  
Pipe Insertion into Steel Casing  
Typical Fire Hydrant  
Thrust Block Dimensions  
Manhole Sections  
Dog House Manhole  
Precast Box / Vault

### **Addendum**

None Issued at This Time

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**Division 1**  
**Project Description**

**Division 1**

**Project Description**

**Section 1: Request for Bids**

Clayton County Water Authority  
1600 Battle Creek Road  
Morrow, Georgia 30260

Name of Project: **Annual Contract for Pipe Repairs and Replacements**

The Clayton County Water Authority (CCWA) will open sealed bids from licensed contractors at its office located at 1600 Battle Creek Road, Morrow, Georgia 30260, on **Thursday, August 14, 2014 at 1:00 p.m. (local time)** for the **Annual Contract for Pipe Repairs and Replacements**. Any bids received after the specified time will not be considered.

A non-mandatory pre-bid meeting will be held at 1600 Battle Creek Road, Morrow, Georgia 30260, on **Thursday, July 31, 2014 at 2:00 p.m. (local time)**.

In an effort to promote responsible environmental practices this bid package is available in electronic (Adobe PDF) format and can be requested by calling 770-960-5223, M-F, 8:00 am - 5:00 pm or by e-mail to [CCWA\\_Procurement@ccwa.us](mailto:CCWA_Procurement@ccwa.us). Bidders will need to provide contact information and an email address, and any file size transfer limits to insure email transmittals can be made. A hardcopy bid package can also be requested at a cost of \$25.

Clayton County Water Authority

Walter Marie Barber, Chair

**END OF SECTION**

## **Division 1**

## **Project Description**

### **Section 2: General Overview**

#### **2.1 Intent and Purpose**

The Clayton County Water Authority (CCWA) intends to contract for the annual services of an experienced Contractor to complete pipe repair and replacement work. The CCWA reserves the right to award a Primary Contractor, as well as a Back-Up Contractor to ensure that our requests under this annual contract can be performed as needed.

To be considered responsive to this bid, bidders are required to bid on all work items listed on the Bid Form - Pay Item Schedule.

A contract will be awarded to the lowest responsive responsible bidder whose bid conforms to the Request for Bids specifications, and will be the most advantageous to the Clayton County Water Authority (CCWA). An evaluation will also be performed to ensure bidder complies with the required submittals. Determination of best responsive responsible bidder will be the sole judgment of the CCWA.

The work to be performed under this contract will be determined and assigned by CCWA on an "as-needed", "when-needed" basis, and will be issued in the form of a Project Work Order. A Project Work Order may include a single work item or may include a number of work items. All work items of a Project Work Order do not necessarily have to be adjacent to each other; however, it is the intent that each Project Work Order will be authorized as a part of a mobilization to a common geographic location.

Where a Project Work Order in an amount of \$100,000 or more, for work considered "Public Works" is issued as defined by O.C.G.A. § 36-91-2, Payment and Performance Bonds will be required prior to the commencement of that work.

CCWA does not guarantee any minimum or maximum work quantities under this contract and reserves the right to bid any similar type work of this contract as a separate procurement at its sole discretion.

The initial term of this contract will be for twelve (12) months. The contract may be extended for a second and third 12 month period by mutual written consent by both parties within 90 days from the expiration date with no changes in the terms and conditions.

## **Division 1**

## **Project Description**

### **Section 2: General Overview**

#### **2.2 Bid Evaluation**

The total bid amount per bidder will be determined by taking the "unit cost" for each "work item" as shown on the "Bid Form - Pay Item Schedule" times an estimated annual quantity for each "work item". At the time of Bid Opening, CCWA will provide a list to each bidder of the "selected" work items and "estimated annual quantities" that CCWA has selected to use in determining the "total bid amount". Note that not all "work items" as shown on the Bid Form - Pay Item Schedule will be used in the bid evaluation process. Work items on the Bid Form - Pay Item Schedule not used in the award evaluation process will be examined by the CCWA to insure that the unit price is in line with comparable items contained in this bid and that any unit price that appear to be out of line may be used by the CCWA as a basis of denial/award of the particular bid and/or the unit price may be negotiated by CCWA. This determination will be at the sole discretion of CCWA.

#### **2.3 Addendum**

Bidders may submit questions regarding this bid prior to the bid opening. To be considered, all questions must be received by email at (CCWA\_Procurement@ccwa.us) by **Monday, August 4, 2014 at 2:00 p.m. (local time)**. Any and all responses to bidders' questions will be issued in the form of an Addendum by email. All addenda issued shall become part of the Bid Documents.

**END OF SECTION**

**Division 2**  
**Bid Requirements**



## **Division 2**

## **Bid Requirements**

### **Section 1: Instructions to Bidders**

These instructions are to be followed by every entity bidding to provide the Clayton County Water Authority (CCWA) with goods and/or services. These instructions constitute an integral part of the Bid, and any Bidder agrees that tender of a Bid constitutes acknowledgment and acceptance of its obligation to adhere to these instructions, which are to be incorporated into and considered part of any contract the Bidder ultimately executes with the CCWA.

1. If there is any question whatsoever regarding any portion of the specifications, it shall be the Bidder's responsibility to seek clarification immediately from the CCWA, as early as possible prior to the bid opening. Regarding public works projects, requests for interpretations of specifications must be made in writing to the department proposing out the project not later than five (5) days prior to receipt of bids.
2. Unless it is otherwise stated in the bid documents, it shall be the responsibility of the bidder to inform itself as to all conditions of the work site and to make and take account thereof in calculating and submitting its bid. Documents may be made available by the CCWA during the bidding process; no warranty of accuracy is made in regard to these documents, and it is the responsibility of the bidder to make its own investigations as to the nature of the work and the conditions under which it shall be performed, and to make its own independent assumptions as to these matters. The burden of anticipating unforeseen circumstances, either hidden or latent, and the conditions of the work site and all related circumstances, and the cost of accommodating therefore should unanticipated circumstances be later encountered shall rest upon the bidder.
3. Pre-bid meeting or any other information session will be held at the location as indicated in the solicitation. Unless indicated otherwise, attendance is not mandatory; although vendors are strongly encouraged to attend. However, in the event the meeting is mandatory, then a representative of the vendor must attend the meeting in its entirety to be considered eligible for solicitation award. Late entry to the meeting will not be allowed.
4. In the event that, after the acceptance of a bid by the Board of Directors of the CCWA, any unsuccessful bidder wishes to contest such action, a written "Notice of Contest" must be filed with the General Manager no later than close of business on the 5th business day after the selection of successful bidder by the Board. Failure to timely file such notice shall forever preclude the filing of a contest of the award, or any civil action in the courts of the State of Georgia or of the United States.
5. Information submitted by the Bidder in the bid process shall be subject to disclosure after bid award in accordance with the Georgia Open Records Act. Proprietary information must be identified and be accompanied by a signed affidavit outlining the redacted information. Entire bids may not be deemed proprietary.

## **Division 2**

## **Bid Requirements**

### **Section 1: Instructions to Bidders**

6. Bids must be made on the enclosed Bid Form. Unless otherwise requested, one (1) original and at least two (2) copies of the Bid Form need to be submitted, and these copies must be **typewritten or printed in ink**. All copies of any Bid Forms must be signed in ink by the person or persons authorized to sign the Bid Form. The person signing the Bid Form must initial any changes or corrections.
7. The name of the person, firm, or corporation making the Bid must be printed in ink, along with the Bidder's signature, on all separate sheets of the Bid Form. If a Bid is made by an individual, his name and post office address must be shown. If made by a firm, or partnership, the name and the post office address of each member of the firm or partnership must be shown. If made by a Corporation, the person or persons signing the Bid must show the name of the State under the laws of which the Corporation is chartered and his, or their authority for signing same. The names, titles and addresses of the President, Secretary and the Treasurer and the corporate authority for doing business in this state shall be listed and returned with the Bid Form.
8. All Bids must be hand delivered, delivered by courier service, or mailed via the United States Postal Service. No facsimiles will be accepted. The person, firm, or corporation making the Bid shall submit it in a sealed envelope on or before the date and time specified in the Bid package. The envelope shall be marked "**Sealed Bid**" and carry the Bid title, and date and time of opening as set forth in the Bid package. The envelope shall also bear the name of the party making the Bid and the party's address. Address Bids to *Clayton County Water Authority, 1600 Battle Creek Road, Morrow, Georgia, 30260*. Even if a Bid is not submitted, the Bid Form should be returned signed and with an explanation, otherwise the result will be deletion from the mailing list.
9. If published price books are a part of your Bid, one price book must be included with your Bid Form, and the successful Bidder is required to furnish additional current price books after award of the Bid.
10. Alterations to the documents are strictly prohibited and shall result in automatic disqualification of the Bidder's bid. If there are "exceptions" to the specifications or comments to any of the solicitation requirements or other language, then the bidder may ask questions regarding those requirements or submit additional documentation as to the variation from the specifications, but may not alter any of the language contained in the solicitation.
11. In the case of goods, the person, firm or corporation making the Bid may Bid all items. All items may be considered separately, at the discretion of the CCWA.

## **Division 2**

## **Bid Requirements**

### **Section 1: Instructions to Bidders**

12. Bids for public works whose price exceeds \$100,000.00 must be accompanied by a certified check, cashier's check, or acceptable bid bond in an amount not less than five percent (5%) of the amount bid.
13. Bidders for construction contracts where the laws of Georgia or the United States of America require a license in order to perform such construction must list the license number and class on the face of the bid envelope and must enclose copies of any required license with the bid.
14. When public work is let out for bid, no person shall prevent or attempt to prevent competition in such bid. Such bidders must make an oath filed with the officer who makes payments under the contract that they have not prevented or attempted to prevent competition in the bid process. Such oath must be signed by: if a partnership, all partners and any officer or agent or other person who acted on the partnership's behalf during the bid process; if a corporation, all officers, agents, or other persons who acted for the corporation in the bid process.
15. Bids shall not be withdrawn or cancelled by the bidder past the bid opening date and time. The bidder may make modifications/corrections to the bid by submitting a corrected seal bid but only if the change is prior to the bid opening. The corrected document should be clearly marked that it supersedes the bid originally submitted. No modification or corrections will be allowed subsequent to the bid opening.
16. By tendering a bid, a Bidder agrees to leave the bid open for acceptance by the CCWA for sixty (60) days after the date set for the opening thereof.
17. By tendering a bid, the bidder certifies that the bidder has carefully examined these instructions and the terms and specifications applicable to and made a part of the bid. The Bidder further certifies that the prices shown in any schedule of items on which the Bidder is proposing are in accordance with the conditions, terms and specifications of the bid and that they are aware that any exception taken thereto may disqualify the bid. Bidders are required to inform themselves fully as to the availability of materials and the conditions relating to construction and labor under which any work will be or is now being performed. No error or misjudgment nor any lack of information on local conditions, general laws or regulations on the part of the Bidder shall merit withdrawal of the bid.
18. Copies of all communication pertaining to bids must be sent to the Contracts, Compliance and Risk Management Section.
19. The purpose of this bid is to establish contract prices. Unit price extension and net total must be shown if applicable. Cash discounts should be indicated separately. The CCWA is exempt from federal or state sales taxes; do not

## **Division 2**

## **Bid Requirements**

### **Section 1: Instructions to Bidders**

- include such amounts in the bid. Exemption certificates are furnished upon request.
20. Bidders are hereby notified and agree by submission of a Bid Form that if additional items not listed in the Bid Form become necessary and require unit prices not established by the Bid Form, the unit prices of such items shall be negotiated and shall be directly proportional to the established unit prices of similar items in the Bid Form.
  21. All prices on goods shall be for delivery, our destination, f.o.b. freight prepaid Jonesboro, Georgia, and/or Morrow, Georgia, unless otherwise shown. Any deliveries shall be made as needed and requested throughout the contract period.
  22. Quantities when shown are estimates only, based on anticipated needs. The CCWA reserves the right to purchase more or less based on actual need at contract price. If a Bidder intends to offer minimum or maximum shipment quantities, such intent and such quantities should be specified on the Bid Form. Otherwise, none will be assumed.
  23. The time for completion of the work is stated in the Bid Form. Failure to complete the work within this period shall result in payment to the CCWA of liquidated damages in an amount provided for by contract for each calendar day in excess of the Contract time.
  24. The Bidder must employ such methods and means in carrying out the work as will not cause any interruption of or interference with any other Contractor.
  25. The successful Bidder must comply with the applicable Risk Management Requirements and the Hold Harmless Agreement prior to beginning performance.
  26. The Contract between the CCWA and the Contractor shall be executed on a form provided by CCWA and will be subject to all requirements of the contract documents (which include but may not be limited to the Contract, these instructions, any Purchase Orders, the Risk Management Requirements, and the Hold Harmless Agreement), and shall form a binding contract between the contracting parties.
  27. Failure to execute the Contract, any required Surety Performance and Payment Bonds, or to furnish any required satisfactory proof of carriage of required insurance within ten (10) days from the date of notice of award of the Contract shall be just cause for the annulment of the award and for forfeiture of the bid guaranty to the CCWA, not as a penalty, but in liquidation of damages sustained. At the discretion of the CCWA, the award may then be made to the

## **Division 2**

## **Bid Requirements**

### **Section 1: Instructions to Bidders**

next lowest responsible vendor, or the work may be re-advertised or constructed by the CCWA.

28. Any Contract and Contract Bonds shall be executed in quadruplicate.
29. Award of this bid shall be by action of the CCWA Board at its regular monthly meeting.
30. The CCWA reserves the right, with or without notice or cause, to accept any bid regardless of the amount thereof; to reject any bid, or any number of bids; to negotiate with any Bidder for a reduction of or alterations in its bid; to reject all bids and to call for additional bids upon the same or different invitations to bid, plans or specifications; to be sole judge, in its discretion, on all questions as to whether or not a bid complies with the invitation to Bid, the plans or the specifications, and as to the solvency and sufficiency of any and all sureties on all bonds.
31. The apparent low bid for goods shall be considered to be the lowest aggregate total price of specified products at their unit prices times the estimated required quantities of these specified products.
32. While price is the prime criteria, and the CCWA intends to purchase at the lowest responsible bid available, price shall not be the sole criteria utilized by the CCWA in evaluating the bid package submitted. The following criteria shall also be utilized by the CCWA in determining the lowest responsible bid:
  - (1) Ability of Bidder to perform in the time frame needed by the CCWA.
  - (2) Reputation of the Bidder in its industry.
  - (3) Reasonableness of the bid in relation to anticipated costs.
  - (4) Ongoing relationships with the CCWA based on above-average prior performance of work with the Authority.
33. By responding to this bid, the Bidder waives any cause of action against the Authority for frustration of bid or under any similar legal theory; furthermore, the Bidder agrees to pay all costs and expenses, including but not limited to attorney fees, incurred by the Authority in defending against any such claim.
34. It is the policy of the Clayton County Water Authority (CCWA) to promote award of sub-agreements for goods and/or services to qualified minority and women-owned businesses. Bidders are encouraged to solicit minority and women-owned businesses whenever they are potential sources.
35. Bidders are encouraged to utilize the services and assistance of the U.S. Small Business Administration (SBA), and the office of the Department of Commerce

## **Division 2**

## **Bid Requirements**

### **Section 1: Instructions to Bidders**

Minority Business Development Agency (MBDA). These agencies can provide assistance in securing the names of qualified minority and women-owned businesses.

The Georgia Department of Transportation (DOT) has established a list of qualified Disadvantaged Business Enterprises. Information is available online under the tab for "Directories", link for "UCP Directory - Excel" at:  
<http://www.dot.ga.gov/doingbusiness/dbePrograms/Pages/default.aspx>.

The successful Bidder will be asked to provide, along with his Request for Payment each month a list of qualified MBE/WBE businesses utilized on this Project.

#### **GEORGIA SECURITY AND IMMIGRATION COMPLIANCE ACT OF 2006**

36. Pursuant to the Georgia Security and Immigration Compliance Act of 2006, the successful Contractor understands and agrees that compliance with the requirements of O.C.G.A.13-10-91 and Georgia Department of Labor Rule 300-10-02 are conditions of this bid and contract document. The Contractor further agrees that such compliance shall be attested by the Contractor and any of his Subcontractors by execution of the appropriate Affidavit and Agreement included after the Agreement Form of these documents.

**END OF SECTION**

**Division 2**

**Bid Requirements**

**Section 2: Risk Management Requirements**

**CONTRACTORS AND VENDORS**

**CONTRACTS FOR \$40,000 OR MORE**

- A. Surety performance and payment bond as required by the contract specifications.
- B. Hold harmless Agreement in favor of Authority, a copy of which is attached.
- C. The Contractor will provide minimum insurance coverage and limits as per the following: The Contractor will file with the Authority Certificates of Insurance, certifying the required insurance coverages and stating that each policy has been endorsed to provide thirty (30) days notice to the Authority in the event that coverage is cancelled, non-renewed or the types of coverage or limits of liability are reduced below those required. All bonds and insurance coverage must be placed with an insurance company approved by Authority Management, admitted to do business in the State of Georgia, and rated **Secure** ("B+" or better) by A.M. Best Company in the latest edition of Property and Casualty Ratings, or rated by Standard & Poors Insurance Ratings, latest edition as **Secure** ("BBB" or better). Worker's Compensation self-insurance for individual Contractors must be approved by the Worker's Compensation Board, State of Georgia and/or Self-Insurance pools approved by the Insurance Commissioner, State of Georgia.
- D. Insurance Required
  - 1. Workers Compensation – Workers Compensation coverage on a statutory basis for the State of Georgia with an Employers Liability limits of \$1,000,000. The increased Employers Liability limits may be provided by an Umbrella or Excess Liability policy.
  - 2. Automobile Liability – Automobile liability coverage for owned, hired, and non-owned vehicles in the amount of \$1,000,000 combined single limit.
  - 3. Commercial General Liability – Coverage to be provided on "occurrence" not "claims made" basis. The coverage is to include Contractual liability, Per Project Limit of Liability, losses caused by Explosion, Collapse and Underground ("xcu") perils, the "Clayton County Water Authority" is to be added as an Additional Insured and Products and Completed Operations coverage is to be maintained for three (3) years following completion of work.

**Division 2**

**Bid Requirements**

**Section 2: Risk Management Requirements**

LIMITS OF LIABILITY

\$1,000,000	Per Occurrence
\$1,000,000	Personal and Advertising
\$ 50,000	Fire Damage*
\$ 5,000	Medical Payments*
\$1,000,000	General Aggregate
\$1,000,000	Products/Completed Operations per Occurrence and Aggregate

\*These are automatic minimums.

4. Umbrella and/or Excess Liability – The umbrella or Excess Liability Policy may be used to combine with underlying policies to obtain the limits required. The Management of the Authority may elect to require higher limits.
5. Owners Protective Liability – The Authority Management may wish to require Owners Protective Liability in some situations.

**END OF SECTION**



## **Division 2**

## **Bid Requirements**

### **Section 3: Hold Harmless Agreement**

To the fullest extent permitted by law, the Contractor shall indemnify and hold harmless the Clayton County Water Authority (the "Owner"), and its employees from and against claims, damages, losses and expenses, including but not limited to attorneys fees, arising out of or resulting from performance of the Work, provided that such claim, damage, loss or expense is attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property (other than the Work itself) including loss of use resulting thereof, but only to the extent caused in whole or in part by negligent acts or omissions of the Contractor, a Subcontractor, anyone directly or indirectly employed by them or anyone for whose acts they may be liable, regardless of whether or not such claim, damage, loss or expense is caused in part by a party indemnified hereunder. Such obligation shall not be construed to negate, abridge, or reduce other rights or obligations of indemnity, which would otherwise exist as to a party or person described in the paragraph.

In claims against any person or entity indemnified under this paragraph by an employee of the Contractor, a Subcontractor, anyone directly or indirectly employed by them or anyone for whose acts they may be liable, the indemnification obligation under this paragraph shall not be limited by a limitation on amount or type of damages, compensation or benefits payable by or for the Contractor or Subcontractor under worker's or workmen's compensation acts, disability benefit acts or other employee benefit acts.

Before the start of any work, the Contractor shall furnish to the Owner:

1. Certificates of Insurance in companies and with limits acceptable to the Owner, covering:
  - a) Workmen's Compensation Insurance
  - b) Commercial General and Automobile Liability Insurance covering all operations and automobiles; including Contractor's Protective Coverage for any Subcontractor's operations.
  - c) An endorsement incorporating the Hold Harmless Agreement assumed by the Contractor under the terms of this Contract.
  - d) These certificates to contain:
    1. Name of Insurance Company.
    2. Policy Number.
    3. Policy inception and expiration dates.
    4. Name and address of insured.
    5. Name and address of agent.
    6. Limits of Liability.

**Division 2**

**Bid Requirements**

**Section 3: Hold Harmless Agreement**

7. Type of Insurance coverage.
  8. Any amendment that expands or reduces standard Insurance Service Office (ISO) policy coverage.
  9. Statement that the policy applies to the project number or job concerned.
  10. Attach copy of Endorsement that shows that each of the policies have been amended to provide thirty (30) days notice to certificate holders prior to termination or non-renewal and that the General Liability Policy has been endorsed to show certificate holder as additional insured.
2. Endorsement incorporating the Hold Harmless Agreement assumed by the Contractor under the terms of this contract.

**The Contractor shall be wholly responsible for securing Certificates of Insurance coverage as set forth above from all Subcontractors who are engaged in this work.**

**END OF SECTION**

## **Division 2**

## **Bid Requirements**

### **Section 4: Bid Submittals**

#### **4.1 Submittal Requirements**

The following items are required to be included as part of the bid submittal. Failure to include any of these items may result in the bid being deemed non-responsive:

- A. Bid Form – Pay Item Schedule – Bidders must submit a hard copy of their completed and signed Bid Form, as well as a duplicate copy by electronic version. The electronic version must be in MS Excel and must be submitted on a CD. The Clayton County Water Authority will provide the Excel file upon requests emailed to [ccwa\\_procurement@ccwa.us](mailto:ccwa_procurement@ccwa.us). **Bidders are responsible for submitting their electronic version on their self-provided CD.** In case of any discrepancy between the hard copy version and the electronic version, the hard copy version will govern. Additionally, due to the volume of the items on the bid form on the date of the bid opening, no bid amounts will be read out loud by the CCWA; however, copies of the paper submittals will be provided upon request.
- B. Partnership Certificate form.
- C. Bidder Qualification Information form.  
A minimum of three references with information as indicated in Division 2, Section 8.
- D. Georgia Security and Immigration Compliance Act of 2006 form.
- E. Contractor Affidavit and Agreement form.
- F. Subcontractor Affidavit form.

If a Contractor/Subcontractor will not be performing any services under this contract, the Contractor/company submitting the bid **MUST** also complete, sign, date, and have both Affidavit forms notarized and make proper notation of "N/A" - Not Applicable.

Clayton County Water Authority (CCWA) cannot consider any bid which does not include completed affidavits. It is not the intent of this notice to provide detailed information or legal advice concerning the Georgia Security & Immigration Compliance Act of 2006, as amended on May 11, 2009. All Bidders intending to do business with CCWA are responsible for

## **Division 2**

## **Bid Requirements**

### **Section 4: Bid Submittals**

independently apprising themselves and complying with the requirements of that law and its effect on CCWA procurements and their participation in those procurements.

- G. Bid Bond – Each bid must be accompanied by a Bid Bond with good and sufficient surety approved by the Owner for faithful acceptance of Contract, payable to, in favor of, and for the protection of the Authority in the amount of \$5,000.00.
- H. List of Subcontractor(s) and their role to be used with Annual Contract.
- I. List of Contractor's owned equipment to be used with Annual Contract.
- J. List of Contractor's personnel to be used with Annual Contract.
- K. Letter from Surety Company indicating Contractor's bonding capacity.

**END OF SECTION**

**Division 2**

**Bid Requirements**

**Section 5: Bid Form**

Bid of \_\_\_\_\_  
(Hereinafter "Bidder"), organized and existing under the laws of the State of \_\_\_\_\_,

doing business as \_\_\_\_\_ (insert "a corporation," "a partnership," or "an individual" or such other business entity designation as is applicable).

To the Clayton County Water Authority (hereinafter "Owner").

In compliance with the Request for Bids, Bidder hereby proposes to perform all Work for **Annual Contract for Pipe Repairs and Replacements** in strict accordance with the Contract Documents as enumerated in the Request for Bids, within the time set forth therein, and at the prices stated below.

By submission of this bid, Bidder certifies, and in the case of joint bid each party thereto certifies as to the party's own organization that this bid has been arrived at independently, without consultation, communication, or agreement as to any matter relating to this bid with any other Bidder or with any competitor. Bidder also certifies compliance with the Instructions to Bidders.

In submitting this bid, Bidder certifies Bidder is qualified to do business in the state of Georgia as required by laws, rules, and regulations or, if allowed by statute, covenants to obtain such qualification prior to contract award.

**CONTRACT EXECUTION AND BONDS:**

The undersigned Bidder agrees, if this bid is accepted, to enter into an Agreement with OWNER on the form included in the Documents to perform and furnish Work as specified or indicated in the Documents for the Contract Price derived from the bid and within the times indicated herein and in accordance with the other terms and conditions of the Documents.

Bidder accepts the terms and conditions of the Documents.

**INSURANCE:**

Bidder further agrees that bid amount(s) stated herein includes specific consideration for the specified insurance coverages.

**Division 2**

**Bid Requirements**

**Section 5: Bid Form**

**CONTRACT TIME:**

Bidder hereby agrees to execute the agreement within fourteen (14) calendar days of Notice of Award or as specified by CCWA. Each individual project work order shall be completed within the time period as agreed to by both parties at the time of the individual project work order issuance. If said work is not completed within the time frame stated on the individual project work order, the Contractor shall be liable to pay to the Owner, as liquidated damages the amount of \$500.00 per calendar day for each and every day or part of a day thereafter that said work remains substantially incomplete for that particular individual project work order.

**BID:**

The undersigned proposes to complete, in all respects, sound and conformable with this Contract Document the work for the amounts as shown on the following Pay Item Schedule.

**ADDENDA:**

Bidder acknowledges receipt of the following Addenda:

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**SURETY:**

If Bidder is awarded an individual project work order for a Public Works project that is \$100,000 or more in value the Contractor under this construction contract for this Bid, will be required to provide Performance and Payment Bonds prior to the commencement of that individual project work order. Such work shall not commence until proper approval of such bonds has been given by CCWA.

**Division 2**

**Bid Requirements**

**Section 5: Bid Form – Pay Item Schedule**

No.	Work Item	Detail	Unit	Unit Cost
1	Lowboy Service		EA	
2	Emergency Mobilization		EA	
3	Performance and Payment Bonds	For Project Work Orders of \$100,000 or more in value	EA	
4	Traffic Control County Road	Lane Closures - Up to 4 hours / per day	EA	
5		Lane Closures - Greater than 4 hours / per day	EA	
6		Road Closure - Up to 4 hours / per day	EA	
7		Road Closure - Greater than 4 hours / per day	EA	
8	Traffic Control State Road	Lane Closures - Up to 4 hours / per day	EA	
9		Lane Closures - Greater than 4 hours / per day	EA	
10		Road Closure - Up to 4 hours / per day	EA	
11		Road Closure - Greater than 4 hours / per day	EA	
12	Erosion and Sedimentation Control Construction Exit		EA	
13	Erosion and Sedimentation Control Sediment Barrier Installation	Silt Fence - Type A	LF	
14		Silt Fence - Type C	LF	
15		Hay Bale	LF	
16	Erosion and Sedimentation Control Sediment Barrier Removal		LF	
17	Erosion and Sedimentation Control Curb Inlet Sediment Trap		EA	
18	Erosion and Sedimentation Control Soil Stabilization	Straw Mulching	SF	
19		Seed and Straw Mulch	SF	
20		Seed and Matt Blanket	SF	
21		Sod	SF	
22	Site Work – Hauling Material from Outside of County		HR	
23	Site Work – Brush Removal		SF	
24	Site Work – Tree Removal	4 inch to 6 inch diameter	EA	
25		Greater than 6 inch to 12 inch diameter	EA	
26		Greater than 12 inch to 24 inch diameter	EA	
27		Greater than 24 inch to 36 inch diameter	EA	
28	Site Work – Fence Work	Chain-Link / Wire Removal or Reinstall	LF	
29		Wood Removal or Reinstall	LF	
30	Site Work – General Excavation	Up to 6 feet deep	CF	
31		Greater than 6 feet to 10 feet deep	CF	
32		Greater than 10 feet to 14 feet deep	CF	
33		Greater than 14 feet to 18 feet deep	CF	

**Division 2**

**Bid Requirements**

**Section 5: Bid Form – Pay Item Schedule**

No.	Work Item	Detail	Unit	Unit Cost
34	Site Work – Rock Excavation		CF	
35	Site Work – General Fill / Backfill	Fill Dirt	CF	
36		Sand	CF	
37		Crushed Stone / Graded Aggregate Base	CF	
38		#3, #4, #34, #5, #57 and #89 Stone	CF	
39		Surge Stone	CF	
40		Rip-Rap Stone Type III	CF	
41	Site Work – Stone Placement	4 inch thick layer	SF	
42	Crushed Stone / Graded Aggregate Base	2 Inch thick layer increment	SF	
43	Site Work – Stone Placement	4 inch thick layer	SF	
44	#3, #4, #34, #5, #57 and #89 Stone	2 Inch thick layer increment	SF	
45	Site Work – Stone Placement	Surge Stone 6 inch thick layer	SF	
46	Surge Stone	6 inch thick layer increment	SF	
47	Site Work – Stone Placement	Type III Rip-Rap Stone 12 inch thick layer	SF	
48	Type III Rip-Rap	12 inch thick layer increment	SF	
49	Site Work – Stone Placement Type 1 Rip-Rap	Type 1 Rip-Rap	SF	
50	Site Work – Gabion Basket Installation		CF	
51	Site Work – Geotextile Fabric Installation		SF	
52	Site Work – Steel Plate Installation	Up to 40 square foot plate	DY	
53		Greater than 40 square foot to 96 square foot plate	DY	
54		Greater than 96 square foot to 160 square foot plate	DY	
55	Pavement – Remove Asphalt	Up to 4 inch thick layer	SF	
56	Pavement – Remove Asphalt	Greater than 4 inch to 8 inch thick layer	SF	
57	Pavement – Remove Asphalt	Greater than 8 inch to 12 inch thick layer	SF	
58	Pavement – Remove Asphalt	Greater than 12 inch thick layer	SF	
59	Pavement – Remove Concrete Flat Work	Up to 4 inch thick layer	SF	
60	Pavement – Remove Concrete Flat Work	Greater than 4 inch to 8 inch thick layer	SF	
61	Pavement – Remove Concrete Flat Work	Greater than 8 inch to 12 inch thick layer	SF	
62	Pavement – Remove Concrete Flat Work	Greater than 12 inch thick layer	SF	
63	Pavement – Remove Concrete Flat Work	Curb and Gutter	LF	
64	Pavement – Milling	Up to 1500 SF	EA	
65		Additional Square Footage	SF	
66	Pavement – Asphalt Patching	3 inch thick layer	SF	
67		1 inch thick layer increment	SF	



**Division 2**

**Bid Requirements**

**Section 5: Bid Form – Pay Item Schedule**

No.	Work Item	Detail	Unit	Unit Cost
68	Pavement – Asphalt Paving	3 inch thick layer	SF	
69		1 inch thick layer increment	SF	
70	Pavement – Concrete Flatwork	Up to 4 inch thick layer	SF	
71		Greater than 4 inch to 6 inch thick layer	SF	
72		Greater than 6 inch to 8 inch thick layer	SF	
73		Greater than 8 inch to 10 inch thick layer	SF	
74		Wire Mesh	SF	
75		Steel Reinforcement	LF	
76	Pavement – Curb and Gutter	Up to 24 inch width, square back	LF	
77		Up to 24 inch width, roll back	LF	
78	Pavement – Catch Basin Spillway Throat		LF	
79	Pavement – Line Striping	Up to 6 inch wide	LF	
80		24 inch wide	LF	
81	Pavement – Marking	Handicap Symbol	EA	
82	Pavement – Pressure Washing		SF	
83	Pumping 4-inch Pump	Single Pump System	DY	
84		Redundant Pump System	DY	
85	Pumping 6-inch Pump	Single Pump System	DY	
86		Redundant Pump System	DY	
87	Pumping 8-inch Pump	Single Pump System	DY	
88		Redundant Pump System	DY	
89	Pumping 10-inch Pump	Single Pump System	DY	
90		Redundant Pump System	DY	
91	Pumping 12-inch Pump	Single Pump System	DY	
92		Redundant Pump System	DY	
93	Pipe Installation - Open Cut Copper (Type "K") Up to 1-inch	Installation / Replacement	EA	
94		Additional Footage	LF	
95	Pipe Installation - augered Copper (Type "K") Up to 1-inch	Installation / Replacement	EA	
96		Additional Footage	LF	
97	Pipe Installation - Open Cut Copper (Type "L") 1-1/2 to 2-inch	Up to 6 feet deep	LF	
98		Greater than 6 feet to 10 feet deep	LF	
99		Greater than 10 feet deep	LF	
100	Pipe Installation - augered Copper (Type "L") 1-1/2 to 2-inch	Up to 6 feet deep	LF	
101		Greater than 6 feet to 10 feet deep	LF	
102		Greater than 10 feet deep	LF	

**Division 2**

**Bid Requirements**

**Section 5: Bid Form – Pay Item Schedule**

No.	Work Item	Detail	Unit	Unit Cost
103	Pipe Installation - Open Cut PVC up to 8-inch	Point Repair, up to 6 feet deep	EA	
104		Point Repair, greater than 6 feet to 10 feet deep	EA	
105		Point Repair, greater than 10 feet to 14 feet deep	EA	
106		Point Repair, greater than 14 feet to 18 feet deep	EA	
107		Additional Footage, up to 6 feet deep	LF	
108		Additional Footage, greater than 6 feet to 10 feet deep	LF	
109		Additional Footage, greater than 10 feet to 14 feet deep	LF	
110		Additional Footage, greater than 14 feet to 18 feet deep	LF	
111	Pipe Installation - Open Cut PVC greater than 8-inch to 16-inch	Point Repair, up to 6 feet deep	EA	
112		Point Repair, greater than 6 feet to 10 feet deep	EA	
113		Point Repair, greater than 10 feet to 14 feet deep	EA	
114		Point Repair, greater than 14 feet to 18 feet deep	EA	
115		Additional Footage, up to 6 feet deep	LF	
116		Additional Footage, greater than 6 feet to 10 feet deep	LF	
117		Additional Footage, greater than 10 feet to 14 feet deep	LF	
118		Additional Footage, greater than 14 feet to 18 feet deep	LF	
119	Pipe Installation - Open Cut PVC greater than 16-inch to 24-inch	Point Repair, up to 6 feet deep	EA	
120		Point Repair, greater than 6 feet to 10 feet deep	EA	
121		Point Repair, greater than 10 feet to 14 feet deep	EA	
122		Point Repair, greater than 14 feet to 18 feet deep	EA	
123		Additional Footage, up to 6 feet deep	LF	
124		Additional Footage, greater than 6 feet to 10 feet deep	LF	
125		Additional Footage, greater than 10 feet to 14 feet deep	LF	
126		Additional Footage, greater than 14 feet to 18 feet deep	LF	
127	Pipe Installation - Open Cut PVC greater than 24-inch to 36-inch	Point Repair, up to 6 feet deep	EA	
128		Point Repair, greater than 6 feet to 10 feet deep	EA	
129		Point Repair, greater than 10 feet to 14 feet deep	EA	
130		Point Repair, greater than 14 feet to 18 feet deep	EA	
131		Additional Footage, up to 6 feet deep	LF	
132		Additional Footage, greater than 6 feet to 10 feet deep	LF	
133		Additional Footage, greater than 10 feet to 14 feet deep	LF	
134		Additional Footage, greater than 14 feet to 18 feet deep	LF	

**Division 2**

**Bid Requirements**

**Section 5: Bid Form – Pay Item Schedule**

No.	Work Item	Detail	Unit	Unit Cost
135	Pipe Installation - Open Cut DI up to 8-inch	Point Repair, up to 6 feet deep	EA	
136		Point Repair, greater than 6 feet to 10 feet deep	EA	
137		Point Repair, greater than 10 feet to 14 feet deep	EA	
138		Point Repair, greater than 14 feet to 18 feet deep	EA	
139		Additional Footage, up to 6 feet deep	LF	
140		Additional Footage, greater than 6 feet to 10 feet deep	LF	
141		Additional Footage, greater than 10 feet to 14 feet deep	LF	
142		Additional Footage, greater than 14 feet to 18 feet deep	LF	
143	Pipe Installation - Open Cut DI greater than 8-inch to 16-inch	Point Repair, up to 6 feet deep	EA	
144		Point Repair, greater than 6 feet to 10 feet deep	EA	
145		Point Repair, greater than 10 feet to 14 feet deep	EA	
146		Point Repair, greater than 14 feet to 18 feet deep	EA	
147		Additional Footage, up to 6 feet deep	LF	
148		Additional Footage, greater than 6 feet to 10 feet deep	LF	
149		Additional Footage, greater than 10 feet to 14 feet deep	LF	
150		Additional Footage, greater than 14 feet to 18 feet deep	LF	
151	Pipe Installation - Open Cut DI greater than 16-inch to 24-inch	Point Repair, up to 6 feet deep	EA	
152		Point Repair, greater than 6 feet to 10 feet deep	EA	
153		Point Repair, greater than 10 feet to 14 feet deep	EA	
154		Point Repair, greater than 14 feet to 18 feet deep	EA	
155		Additional Footage, up to 6 feet deep	LF	
156		Additional Footage, greater than 6 feet to 10 feet deep	LF	
157		Additional Footage, greater than 10 feet to 14 feet deep	LF	
158		Additional Footage, greater than 14 feet to 18 feet deep	LF	
159	Pipe Installation - Open Cut DI greater than 24-inch to 36-inch	Point Repair, up to 6 feet deep	EA	
160		Point Repair, greater than 6 feet to 10 feet deep	EA	
161		Point Repair, greater than 10 feet to 14 feet deep	EA	
162		Point Repair, greater than 14 feet to 18 feet deep	EA	
163		Additional Footage, up to 6 feet deep	LF	
164		Additional Footage, greater than 6 feet to 10 feet deep	LF	
165		Additional Footage, greater than 10 feet to 14 feet deep	LF	
166		Additional Footage, greater than 14 feet to 18 feet deep	LF	

**Division 2**

**Bid Requirements**

**Section 5: Bid Form – Pay Item Schedule**

No.	Work Item	Detail	Unit	Unit Cost
167	Pipe Installation - Open Cut DI greater than 36-inch to 48-inch	Point Repair, up to 6 feet deep	EA	
168		Point Repair, greater than 6 feet to 10 feet deep	EA	
169		Point Repair, greater than 10 feet to 14 feet deep	EA	
170		Point Repair, greater than 14 feet to 18 feet deep	EA	
171		Additional Footage, up to 6 feet deep	LF	
172		Additional Footage, greater than 6 feet to 10 feet deep	LF	
173		Additional Footage, greater than 10 feet to 14 feet deep	LF	
174		Additional Footage, greater than 14 feet to 18 feet deep	LF	
175		Pipe Installation - Open Cut DI greater than 48-inch to 60-inch	Point Repair, up to 6 feet deep	EA
176	Point Repair, greater than 6 feet to 10 feet deep		EA	
177	Point Repair, greater than 10 feet to 14 feet deep		EA	
178	Point Repair, greater than 14 feet to 18 feet deep		EA	
179	Additional Footage, up to 6 feet deep		LF	
180	Additional Footage, greater than 6 feet to 10 feet deep		LF	
181	Additional Footage, greater than 10 feet to 14 feet deep		LF	
182	Additional Footage, greater than 14 feet to 18 feet deep	LF		
183	Pipe Installation - Open Cut RC up to 16-inch	Point Repair, up to 6 feet deep	EA	
184		Point Repair, greater than 6 feet to 10 feet deep	EA	
185		Point Repair, greater than 10 feet to 14 feet deep	EA	
186		Point Repair, greater than 14 feet to 18 feet deep	EA	
187		Additional Footage, up to 6 feet deep	LF	
188		Additional Footage, greater than 6 feet to 10 feet deep	LF	
189		Additional Footage, greater than 10 feet to 14 feet deep	LF	
190		Additional Footage, greater than 14 feet to 18 feet deep	LF	
191	Pipe Installation - Open Cut RC greater than 16-inch to 24-inch	Point Repair, up to 6 feet deep	EA	
192		Point Repair, greater than 6 feet to 10 feet deep	EA	
193		Point Repair, greater than 10 feet to 14 feet deep	EA	
194		Point Repair, greater than 14 feet to 18 feet deep	EA	
195		Additional Footage, up to 6 feet deep	LF	
196		Additional Footage, greater than 6 feet to 10 feet deep	LF	
197		Additional Footage, greater than 10 feet to 14 feet deep	LF	
198		Additional Footage, greater than 14 feet to 18 feet deep	LF	

**Division 2**

**Bid Requirements**

**Section 5: Bid Form – Pay Item Schedule**

No.	Work Item	Detail	Unit	Unit Cost
199	Pipe Installation - Open Cut RC greater than 24-inch to 36-inch	Point Repair, up to 6 feet deep	EA	
200		Point Repair, greater than 6 feet to 10 feet deep	EA	
201		Point Repair, greater than 10 feet to 14 feet deep	EA	
202		Point Repair, greater than 14 feet to 18 feet deep	EA	
203		Additional Footage, up to 6 feet deep	LF	
204		Additional Footage, greater than 6 feet to 10 feet deep	LF	
205		Additional Footage, greater than 10 feet to 14 feet deep	LF	
206		Additional Footage, greater than 14 feet to 18 feet deep	LF	
207	Pipe Installation - Open Cut RC greater than 36-inch to 48-inch	Point Repair, up to 6 feet deep	EA	
208		Point Repair, greater than 6 feet to 10 feet deep	EA	
209		Point Repair, greater than 10 feet to 14 feet deep	EA	
210		Point Repair, greater than 14 feet to 18 feet deep	EA	
211		Additional Footage, up to 6 feet deep	LF	
212		Additional Footage, greater than 6 feet to 10 feet deep	LF	
213		Additional Footage, greater than 10 feet to 14 feet deep	LF	
214		Additional Footage, greater than 14 feet to 18 feet deep	LF	
215	Pipe Installation - Open Cut RC greater than 48-inch to 60-inch	Point Repair, up to 6 feet deep	EA	
216		Point Repair, greater than 6 feet to 10 feet deep	EA	
217		Point Repair, greater than 10 feet to 14 feet deep	EA	
218		Point Repair, greater than 14 feet to 18 feet deep	EA	
219		Additional Footage, up to 6 feet deep	LF	
220		Additional Footage, greater than 6 feet to 10 feet deep	LF	
221		Additional Footage, greater than 10 feet to 14 feet deep	LF	
222		Additional Footage, greater than 14 feet to 18 feet deep	LF	
223	Pipe Installation - Open Cut RC greater than 60-inch to 72-inch	Point Repair, up to 10 feet deep	EA	
224		Point Repair, greater than 10 feet to 14 feet deep	EA	
225		Point Repair, greater than 14 feet to 18 feet deep	EA	
226		Additional Footage, up to 10 feet deep	LF	
227		Additional Footage, greater than 10 feet to 14 feet deep	LF	
228		Additional Footage, greater than 14 feet to 18 feet deep	LF	

**Division 2**

**Bid Requirements**

**Section 5: Bid Form – Pay Item Schedule**

No.	Work Item	Detail	Unit	Unit Cost
229	Pipe Installation - Open Cut RC greater than 72-inch to 84-inch	Point Repair, up to 10 feet deep	EA	
230		Point Repair, greater than 10 feet to 14 feet deep	EA	
231		Point Repair, greater than 14 feet to 18 feet deep	EA	
232		Additional Footage, up to 10 feet deep	LF	
233		Additional Footage, greater than 10 feet to 14 feet deep	LF	
234		Additional Footage, greater than 14 feet to 18 feet deep	LF	
235	Pipe Installation - Open Cut RC greater than 84-inch to 96-inch	Point Repair, up to 10 feet deep	EA	
236		Point Repair, greater than 10 feet to 14 feet deep	EA	
237		Point Repair, greater than 14 feet to 18 feet deep	EA	
238		Additional Footage, up to 10 feet deep	LF	
239		Additional Footage, greater than 10 feet to 14 feet deep	LF	
240		Additional Footage, greater than 14 feet to 18 feet deep	LF	
241	Pipe Installation - Open Cut RC greater than 96-inch to 108-inch	Point Repair, up to 10 feet deep	EA	
242		Point Repair, greater than 10 feet to 14 feet deep	EA	
243		Point Repair, greater than 14 feet to 18 feet deep	EA	
244		Additional Footage, up to 10 feet deep	LF	
245		Additional Footage, greater than 10 feet to 14 feet deep	LF	
246		Additional Footage, greater than 14 feet to 18 feet deep	LF	
247	Pipe Installation - Open Cut HDPE up to 8-inch	Point Repair, up to 6 feet deep	EA	
248		Point Repair, greater than 6 feet to 10 feet deep	EA	
249		Point Repair, greater than 10 feet to 14 feet deep	EA	
250		Point Repair, greater than 14 feet to 18 feet deep	EA	
251		Additional Footage, up to 6 feet deep	LF	
252		Additional Footage, greater than 6 feet to 10 feet deep	LF	
253		Additional Footage, greater than 10 feet to 14 feet deep	LF	
254		Additional Footage, greater than 14 feet to 18 feet deep	LF	

**Division 2**

**Bid Requirements**

**Section 5: Bid Form – Pay Item Schedule**

No.	Work Item	Detail	Unit	Unit Cost
255	Pipe Installation - Open Cut HDPE greater than 8-inch to 16-inch	Point Repair, up to 6 feet deep	EA	
256		Point Repair, greater than 6 feet to 10 feet deep	EA	
257		Point Repair, greater than 10 feet to 14 feet deep	EA	
258		Point Repair, greater than 14 feet to 18 feet deep	EA	
259		Additional Footage, up to 6 feet deep	LF	
260		Additional Footage, greater than 6 feet to 10 feet deep	LF	
261		Additional Footage, greater than 10 feet to 14 feet deep	LF	
262		Additional Footage, greater than 14 feet to 18 feet deep	LF	
263	Pipe Installation - Open Cut HDPE greater than 16-inch to 24-inch	Point Repair, up to 6 feet deep	EA	
264		Point Repair, greater than 6 feet to 10 feet deep	EA	
265		Point Repair, greater than 10 feet to 14 feet deep	EA	
266		Point Repair, greater than 14 feet to 18 feet deep	EA	
267		Additional Footage, up to 6 feet deep	LF	
268		Additional Footage, greater than 6 feet to 10 feet deep	LF	
269		Additional Footage, greater than 10 feet to 14 feet deep	LF	
270		Additional Footage, greater than 14 feet to 18 feet deep	LF	
271	Pipe Installation - Open Cut HDPE greater than 24-inch to 36-inch	Point Repair, up to 6 feet deep	EA	
272		Point Repair, greater than 6 feet to 10 feet deep	EA	
273		Point Repair, greater than 10 feet to 14 feet deep	EA	
274		Point Repair, greater than 14 feet to 18 feet deep	EA	
275		Additional Footage, up to 6 feet deep	LF	
276		Additional Footage, greater than 6 feet to 10 feet deep	LF	
277		Additional Footage, greater than 10 feet to 14 feet deep	LF	
278		Additional Footage, greater than 14 feet to 18 feet deep	LF	
279	Pipe Installation - Open Cut HDPE greater than 36-inch to 48-inch	Point Repair, up to 6 feet deep	EA	
280		Point Repair, greater than 6 feet to 10 feet deep	EA	
281		Point Repair, greater than 10 feet to 14 feet deep	EA	
282		Point Repair, greater than 14 feet to 18 feet deep	EA	
283		Additional Footage, up to 6 feet deep	LF	
284		Additional Footage, greater than 6 feet to 10 feet deep	LF	
285		Additional Footage, greater than 10 feet to 14 feet deep	LF	
286		Additional Footage, greater than 14 feet to 18 feet deep	LF	

**Division 2**

**Bid Requirements**

**Section 5: Bid Form – Pay Item Schedule**

No.	Work Item	Detail	Unit	Unit Cost
287	Pipe Installation - Open Cut HDPE greater than 48-inch to 60-inch	Point Repair, up to 6 feet deep	EA	
288		Point Repair, greater than 6 feet to 10 feet deep	EA	
289		Point Repair, greater than 10 feet to 14 feet deep	EA	
290		Point Repair, greater than 14 feet to 18 feet deep	EA	
291		Additional Footage, up to 6 feet deep	LF	
292		Additional Footage, greater than 6 feet to 10 feet deep	LF	
293		Additional Footage, greater than 10 feet to 14 feet deep	LF	
294		Additional Footage, greater than 14 feet to 18 feet deep	LF	
295		Pipe Installation - Open Cut CM up to 15-inch	Point Repair, up to 6 feet deep	EA
296	Point Repair, greater than 6 feet to 10 feet deep		EA	
297	Point Repair, greater than 10 feet to 14 feet deep		EA	
298	Point Repair, greater than 14 feet to 18 feet deep		EA	
299	Additional Footage, up to 6 feet deep		LF	
300	Additional Footage, greater than 6 feet to 10 feet deep		LF	
301	Additional Footage, greater than 10 feet to 14 feet deep		LF	
302	Additional Footage, greater than 14 feet to 18 feet deep		LF	
303	Pipe Installation - Open Cut CM greater than 15-inch to 24-inch	Point Repair, up to 6 feet deep	EA	
304		Point Repair, greater than 6 feet to 10 feet deep	EA	
305		Point Repair, greater than 10 feet to 14 feet deep	EA	
306		Point Repair, greater than 14 feet to 18 feet deep	EA	
307		Additional Footage, up to 6 feet deep	LF	
308		Additional Footage, greater than 6 feet to 10 feet deep	LF	
309		Additional Footage, greater than 10 feet to 14 feet deep	LF	
310		Additional Footage, greater than 14 feet to 18 feet deep	LF	
311	Pipe Installation - Open Cut CM greater than 24-inch to 36-inch	Point Repair, up to 6 feet deep	EA	
312		Point Repair, greater than 6 feet to 10 feet deep	EA	
313		Point Repair, greater than 10 feet to 14 feet deep	EA	
314		Point Repair, greater than 14 feet to 18 feet deep	EA	
315		Additional Footage, up to 6 feet deep	LF	
316		Additional Footage, greater than 6 feet to 10 feet deep	LF	
317		Additional Footage, greater than 10 feet to 14 feet deep	LF	
318		Additional Footage, greater than 14 feet to 18 feet deep	LF	



**Division 2**

**Bid Requirements**

**Section 5: Bid Form – Pay Item Schedule**

No.	Work Item	Detail	Unit	Unit Cost
319	Pipe Installation - Open Cut CM greater than 36-inch to 48-inch	Point Repair, up to 6 feet deep	EA	
320		Point Repair, greater than 6 feet to 10 feet deep	EA	
321		Point Repair, greater than 10 feet to 14 feet deep	EA	
322		Point Repair, greater than 14 feet to 18 feet deep	EA	
323		Additional Footage, up to 6 feet deep	LF	
324		Additional Footage, greater than 6 feet to 10 feet deep	LF	
325		Additional Footage, greater than 10 feet to 14 feet deep	LF	
326		Additional Footage, greater than 14 feet to 18 feet deep	LF	
327	Pipe Installation - Open Cut CM greater than 48-inch to 60-inch	Point Repair, up to 6 feet deep	EA	
328		Point Repair, greater than 6 feet to 10 feet deep	EA	
329		Point Repair, greater than 10 feet to 14 feet deep	EA	
330		Point Repair, greater than 14 feet to 18 feet deep	EA	
331		Additional Footage, up to 6 feet deep	LF	
332		Additional Footage, greater than 6 feet to 10 feet deep	LF	
333		Additional Footage, greater than 10 feet to 14 feet deep	LF	
334		Additional Footage, greater than 14 feet to 18 feet deep	LF	
335	Pipe Installation - Open Cut CM greater than 60-inch to 72-inch	Point Repair, up to 10 feet deep	EA	
336		Point Repair, greater than 10 feet to 14 feet deep	EA	
337		Point Repair, greater than 14 feet to 18 feet deep	EA	
338		Additional Footage, up to 10 feet deep	LF	
339		Additional Footage, greater than 10 feet to 14 feet deep	LF	
340		Additional Footage, greater than 14 feet to 18 feet deep	LF	
341	Pipe Installation - Open Cut CM greater than 72-inch to 84-inch	Point Repair, up to 10 feet deep	EA	
342		Point Repair, greater than 10 feet to 14 feet deep	EA	
343		Point Repair, greater than 14 feet to 18 feet deep	EA	
344		Additional Footage, up to 10 feet deep	LF	
345		Additional Footage, greater than 10 feet to 14 feet deep	LF	
346		Additional Footage, greater than 14 feet to 18 feet deep	LF	
347	Pipe Installation - Open Cut CM greater than 84-Inch to 96-inch	Point Repair, up to 10 feet deep	EA	
348		Point Repair, greater than 10 feet to 14 feet deep	EA	
349		Point Repair, greater than 14 feet to 18 feet deep	EA	
350		Additional Footage, up to 10 feet deep	LF	
351		Additional Footage, greater than 10 feet to 14 feet deep	LF	
352		Additional Footage, greater than 14 feet to 18 feet deep	LF	

**Division 2**

**Bid Requirements**

**Section 5: Bid Form – Pay Item Schedule**

No.	Work Item	Detail	Unit	Unit Cost
353	Pipe Installation - Open Cut Steel Casing up to 18-inch	Up to 6 feet deep	LF	
354		Greater than 6 feet to 10 feet deep	LF	
355		Greater than 10 feet to 14 feet deep	LF	
356		Greater than 14 feet to 18 feet deep	LF	
357		Weld	EA	
358	Pipe Installation - Open Cut Steel Casing greater than 18-inch to 24-inch	Up to 6 feet deep	LF	
359		Greater than 6 feet to 10 feet deep	LF	
360		Greater than 10 feet to 14 feet deep	LF	
361		Greater than 14 feet to 18 feet deep	LF	
362		Weld	EA	
363	Pipe Installation - Open Cut Steel Casing greater than 24-inch to 36-inch	Up to 6 feet deep	LF	
364		Greater than 6 feet to 10 feet deep	LF	
365		Greater than 10 feet to 14 feet deep	LF	
366		Greater than 14 feet to 18 feet deep	LF	
367		Weld	EA	
368	Pipe Installation - Open Cut Steel Casing greater than 36-inch to 48-inch	Up to 6 feet deep	LF	
369		Greater than 6 feet to 10 feet deep	LF	
370		Greater than 10 feet to 14 feet deep	LF	
371		Greater than 14 feet to 18 feet deep	LF	
372		Weld	EA	
373	Pipe Insertion into Steel Casing PVC up to 8-inch		LF	
374	Pipe Insertion into Steel Casing PVC greater than 8-inch to 16-inch		LF	
375	Pipe Insertion into Steel Casing PVC greater than 16-inch to 24-inch		LF	
376	Pipe Insertion into Steel Casing DI up to 8-inch		LF	
377	Pipe Insertion into Steel Casing DI greater than 8-inch to 16-inch		LF	
378	Pipe Insertion into Steel Casing DI greater than 16-inch to 24-inch		LF	
379	Pipe Insertion into Steel Casing DI greater than 24-inch to 36-inch		LF	
380	Polyethylene Pipe Encasement	For Pipe up to 16-inch	LF	
381		For Pipe greater than 16-inch to 24-inch	LF	
382		For Pipe greater than 24-inch to 36-inch	LF	
383		For Pipe greater than 36-inch to 48-inch	LF	

**Division 2**

**Bid Requirements**

**Section 5: Bid Form – Pay Item Schedule**

No.	Work Item	Detail	Unit	Unit Cost
384	Direct Tap Into Pipe Up to 1-inch Direct Tap into DI of Varying Sizes	Up to 6 feet deep	EA	
385		Greater than 6 feet to 10 feet deep	EA	
386		Greater than 10 feet to 14 feet deep	EA	
387		Greater than 14 feet to 18 feet deep	EA	
388	Core Into Pipe	Up to 2-inch core into pipe	EA	
389		Greater than 2-inch to 6-inch core into pipe	EA	
390		8-inch core into pipe	EA	
391		10-inch core into pipe	EA	
392		12-inch core into pipe	EA	
393		16-inch core into pipe	EA	
394		18-inch core into pipe	EA	
395		20-inch core into pipe	EA	
396		24-inch core into pipe	EA	
397	Connect Fitting / Valve to Pipe Brass / Bronze Fitting / Valve up to 2-inch		EA	
398	Connect Fitting / Valve to Pipe PVC Fitting / Valve up to 8-inch		EA	
399	Connect Fitting / Valve to Pipe PVC Fitting / Valve Greater than 8-inch to 16-inch		EA	
400	Connect Fitting / Valve to Pipe PVC Fitting / Valve Greater than 16-inch to 24-inch		EA	
401	Connect Fitting / Valve to Pipe DI Fitting / Valve up to 8-inch		EA	
402	Connect Fitting / Valve to Pipe DI Fitting / Valve Greater than 8-inch to 16-inch		EA	
403	Connect Fitting / Valve to Pipe DI Fitting / Valve Greater than 16-inch to 24-inch		EA	
404	Connect Fitting / Valve to Pipe DI Fitting / Valve Greater than 24-inch to 36-inch		EA	
405	Connect Fitting / Valve to Pipe DI Fitting / Valve Greater than 36-inch to 48-inch		EA	
406	Fire Hydrant Installation	Up to 5-foot Bury Depth	EA	
407		Greater than 5-foot Bury Depth	EA	
408	Fire Hydrant (Existing) Vertical Adjustment		VF	
409	Fire Hydrant Removal	Up to 5-foot Bury Depth	EA	
410		Greater than 5-foot Bury Depth	EA	
411	Air / Vacuum Release Valve Installation		EA	
412	Meter Box Work	Standard Residential	EA	
413		3-Foot Box	EA	
414		6-Foot Box	EA	
415	Thrust Restraint	For Pipe up to 16-inch	EA	

**Division 2**

**Bid Requirements**

**Section 5: Bid Form – Pay Item Schedule**

No.	Work Item	Detail	Unit	Unit Cost
416	Cast-in-Place Concrete	For Pipe greater than 16-inch to 24-inch	EA	
417		For Pipe greater than 24-inch to 36-inch	EA	
418		For Pipe greater than 36-inch to 48-inch	EA	
419	Flared End Section Installation	For Pipe up to 16-inch	EA	
420		For Pipe greater than 16-inch to 24-inch	EA	
421		For Pipe greater than 24-inch to 36-inch	EA	
422		For Pipe greater than 36-inch to 48-inch	EA	
423	Precast Headwall Installation Headwall Installation	For Pipe up to 16 Inch	EA	
424		For Pipe greater than 16 Inch to 24 Inch	EA	
425		For Pipe greater than 24 Inch to 36 Inch	EA	
426		For Pipe greater than 36 Inch to 48 Inch	EA	
427		For Pipe greater than 48 Inch to 60 Inch	EA	
428		For Pipe greater than 60 Inch to 72 Inch	EA	
429		For Pipe greater than 72 Inch to 84 Inch	EA	
430		For Pipe greater than 84 Inch to 96 Inch	EA	
431	Precast Manhole Installation 4-Foot Diameter	Typical, Up to 6-foot Constructed Height	EA	
432		Doghouse, Up to 6-foot Constructed Height	EA	
433		Additional Height	VF	
434	Precast Manhole Installation 5-Foot Diameter	Typical, Up to 6-foot Constructed Height	EA	
435		Doghouse, Up to 6-foot Constructed Height	EA	
436		Additional Height	VF	
437	Precast Manhole Installation 6-Foot Diameter	Typical, Up to 6-foot Constructed Height	EA	
438		Doghouse, Up to 6-foot Constructed Height	EA	
439		Additional Height	VF	
440	Precast Manhole Installation 7-Foot Diameter	Typical, Up to 8-foot Constructed Height	EA	
441		Doghouse, Up to 8-foot Constructed Height	EA	
442		Additional Height	VF	
443	Precast Manhole Installation 8-Footer Diameter	Typical, Up to 10-foot Constructed Height	EA	
444		Doghouse, Up to 10-foot Constructed Height	EA	
445		Additional Height	VF	
446	Precast Box / Vault Installation Up to 5-Footer by 5-Footer	Typical, Up to 6-foot Constructed Height	EA	
447		Additional Height	VF	
448	Precast Box / Vault Installation Greater than 5-Footer by 5-Footer to 8-Footer by 8-Footer	Typical, Up to 6-foot Constructed Height	EA	
449		Additional Height	VF	
450	Precast Box / Vault Installation 8-Footer by 12-Footer	Typical, Up to 6-foot Constructed Height	EA	
451		Additional Height	VF	
452	Precast Box / Vault Installation 8-Footer by 16-Footer	Typical, Up to 6-foot Constructed Height	EA	
453		Additional Height	VF	

**Division 2**

**Bid Requirements**

**Section 5: Bid Form – Pay Item Schedule**

No.	Work Item	Detail	Unit	Unit Cost
454	Manhole Invert Construction 4-Foot Diameter Manhole	Cast-in-Place Concrete	EA	
455		Brick and Mortar	EA	
456	Manhole Invert Construction 5-Foot Diameter Manhole	Cast-in-Place Concrete	EA	
457		Brick and Mortar	EA	
458	Manhole Invert Construction 6-Foot Diameter Manhole	Cast-in-Place Concrete	EA	
459		Brick and Mortar	EA	
460	Manhole Invert Construction 7-Foot Diameter Manhole	Cast-in-Place Concrete	EA	
461		Brick and Mortar	EA	
462	Manhole Invert Construction 8-Foot Diameter Manhole	Cast-in-Place Concrete	EA	
463		Brick and Mortar	EA	
464	Other Invert Construction	Cast-in-Place Concrete	SF	
465		Brick and Mortar	SF	
466	Ring and Cover Installation	Installation	EA	
467		Additional Height, Per Brick Layer	EA	
468	Precast Catch Basin Spillway Installation		EA	
469	Precast Catch Basin Top Slab Installation		EA	
470	Concrete Core	Up to 4-inch diameter core	EA	
471		Greater than 4-inch to 12-inch diameter core	EA	
472		Greater than 12-inch to 18-inch diameter core	EA	
473		Greater than 18-inch to 24-inch diameter core	EA	
474	Brick Work	1 Brick Deep Wall Construction	SF	
475		2 Brick Deep Wall Construction	SF	
476		3 Brick Deep Wall Construction	SF	
477		4 Brick Deep Wall Construction	SF	
478	Concrete Work	Bulk	CY	
479		Form Work	SF	
480		Steel Reinforcement	LF	
481	Cementitious Grouting	Grout Mixed by Hand	CF	
482		Grout Mixed by Plant	CY	
483		Pump Mobilization	EA	
484	Chemical Grouting	Grout	GAL	
485		Pump Mobilization	EA	
486	Pressure Testing	Low Pressure Air	EA	
487		Hydrostatic	EA	
488		Static Water Level	EA	
489	Hourly Labor	Superintendent	HR	
490		Foreman	HR	
491		Operator	HR	
492		Pipe Layer	HR	
493		Laborer	HR	

**Division 2**

**Bid Requirements**

**Section 5: Bid Form – Pay Item Schedule**

No.	Work Item	Detail	Unit	Unit Cost	
494	Hourly Equipment	78,000 # Class Excavator	HR		
495		52,000 # Class Excavator	HR		
496		45,000 # Class Excavator	HR		
497		17,000 # Class Excavator	HR		
498		10,000 # Class Excavator	HR		
499		30,000 # Class Rubber Tired Loader	HR		
500		Rubber Tired Backhoe / Loader	HR		
501		18,000 # Class Track Dozier	HR		
502		Vibratory Soil Compactor (Ride On) Up to 66-inch compaction width	HR		
503		Vibratory Soil Compactor (Remote Controlled) Up to 48-inch compaction width	HR		
504		Utility Truck Fully Equipped with Hand Tools, Air Tools, Cutting Tools, Mudhog Pump, Generator, Air Compressor, Mechanical Tamp	HR		
505		Equipment Rental		EA	10%
506		Supplied Material		EA	10%
507	Specialty Services		EA	10%	

**Division 2** **Bid Requirements**

**Section 5: Bid Form**

To be considered responsive to this bid, bidders are required to bid on all work items listed on the Bid Form - Pay Item Schedule.

Submitted by:

\_\_\_\_\_  
(NAME OF BIDDER)

By: \_\_\_\_\_  
(SIGNATURE)

\_\_\_\_\_  
(TITLE)

\_\_\_\_\_  
(DATE)

\_\_\_\_\_ (SEAL)  
(ATTEST)

\_\_\_\_\_  
(ADDRESS)

\_\_\_\_\_  
(PHONE NUMBER)

\_\_\_\_\_  
(FAX NUMBER)

\_\_\_\_\_  
(LICENSE NUMBER) (If applicable)

\_\_\_\_\_  
(E-MAIL ADDRESS)

**END OF SECTION**

**Division 2**

**Bid Requirements**

**Section 6: Georgia Bid Bond**

BOND NO. \_\_\_\_\_

KNOW ALL MEN BY THESE PRESENTS, that \_\_\_\_\_

\_\_\_\_\_

herein after called the PRINCIPAL, and \_\_\_\_\_

\_\_\_\_\_

a corporation duly organized under the laws of the State of \_\_\_\_\_

having its principal place of business at \_\_\_\_\_

\_\_\_\_\_ in the State of \_\_\_\_\_

and authorized to do business in the State of Georgia as SURETY, are held and firmly bound unto Clayton County Water Authority, as OWNER, hereinafter called the OBLIGEE, in the sum of FIVE THOUSAND DOLLARS (\$5,000.00) for the payment for which we bind ourselves, our heirs, executors, administrators, successors, and assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THIS BOND IS SUCH THAT:

WHEREAS, the Principal is herewith submitting his or its Bid for the **Annual Contract for Pipe Repairs and Replacements** project, and said Bid, by reference thereto, being hereby made a part hereof.

WHEREAS, the PRINCIPAL contemplates submitting or has submitted a Bid to the OBLIGEE for the furnishing of all labor, materials (except those to be specifically furnished by the Owner), equipment, machinery, tools, apparatus, means of transportation for, and the performance of the work covered in the Bid and the documents, entitled: **Annual Contract for Pipe Repairs and Replacements**.

WHEREAS, it was a condition precedent to the submission of said Bid that a cashier's check, certified check, or Bid Bond in the amount of 5 percent of the Bid Amount be submitted with said Bid as a guarantee that the Bidder would, if awarded the Contract,



**Division 2**

**Bid Requirements**

**Section 6: Georgia Bid Bond**

enter into a written Contract with the Owner for the performance of said Contract, within 10 consecutive calendar days after written notice having been given of the award of the Contract.

NOW THEREFORE, the conditions of this obligation are such that if the PRINCIPAL within 10 consecutive calendar days after written notice of such acceptance, enters into a written Contract with the OBLIGEE and furnishes a Performance Bond and Payment Bond in an amount equal to 100 percent of the contract amount, satisfactory to the Owner, then this obligation shall be void; otherwise the sum herein stated shall be due and payable to the OBLIGEE and the SURETY herein agrees to pay said sum immediately upon demand of the OBLIGEE in good and lawful money of the United States of America, as liquidated damages for failure thereof of said PRINCIPAL.

Signed and sealed this \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_.

PRINCIPAL

By \_\_\_\_\_

SURETY

By \_\_\_\_\_  
Attorney-In-Fact

**END OF SECTION**

**Division 2**

**Bid Requirements**

**Section 7: Partnership Certificate**

STATE OF \_\_\_\_\_

COUNTY OF \_\_\_\_\_

On this \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, before me personally appeared \_\_\_\_\_ known to me to be the person who executed the above instrument, who, being by me first duly sworn, did expose and say that he/she is a general partner in the firm of \_\_\_\_\_ and that said firm consists of himself/herself, and \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

and that he/she executed the foregoing instrument on behalf of said firm for the uses and purposes stated therein and that no one except the above named members of the firm have any financial interest whatsoever in said proposed Contract.

\_\_\_\_\_  
Signature of Authorized Representative

\_\_\_\_\_  
Title

Sworn to and subscribed before me this

\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

\_\_\_\_\_  
Notary Public

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

**END OF SECTION**

**Division 2**

**Bid Requirements**

**Section 8: Bidder Qualification Information**

COMPANY NAME OF BIDDER: \_\_\_\_\_  
\_\_\_\_\_

NUMBER OF YEARS IN BUSINESS \_\_\_\_\_

BUSINESS ADDRESS OF COMPANY: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

TELEPHONE NUMBER: \_\_\_\_\_

FAX NUMBER: \_\_\_\_\_

POINT OF CONTACT NAME: \_\_\_\_\_

POINT OF CONTACT EMAIL ADDRESS: \_\_\_\_\_

COMPANY TAX ID NUMBER: \_\_\_\_\_

COMPANY WEBSITE: \_\_\_\_\_

- ENTITY TYPE:       Individual/Sole Proprietor     Employee Owned Company  
 Privately Held Corporation/LLC     Partnership  
 Publicly Owned Company     Attorney  
 Other (specify): \_\_\_\_\_

NAME OF PRINCIPAL OFFICERS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Division 2**

**Bid Requirements**

**Section 8: Bidder Qualification Information**

**REFERENCES**

*Provide at least three references with one each being for water work, waste water work and storm water work with an emphasis for similar work with a preference for annual contract work that have been completed within the last five years. Failure to provide satisfactory references will result in the bid being deemed non-responsive.*

**OWNER:** \_\_\_\_\_  
**CONTACT NAME:** \_\_\_\_\_  
**PHONE NUMBER:** \_\_\_\_\_

**OWNER:** \_\_\_\_\_  
**CONTACT NAME:** \_\_\_\_\_  
**PHONE NUMBER:** \_\_\_\_\_

**OWNER:** \_\_\_\_\_  
**CONTACT NAME:** \_\_\_\_\_  
**PHONE NUMBER:** \_\_\_\_\_

**OWNER:** \_\_\_\_\_  
**CONTACT NAME:** \_\_\_\_\_  
**PHONE NUMBER:** \_\_\_\_\_

**OWNER:** \_\_\_\_\_  
**CONTACT NAME:** \_\_\_\_\_  
**PHONE NUMBER:** \_\_\_\_\_

**END OF SECTION**

**Division 2**

**Bid Requirements**

**Section 9: Contractor Affidavit & Agreement**

**GEORGIA SECURITY AND IMMIGRATION COMPLIANCE ACT OF 2006**

- A. Pursuant to the Georgia Security and Immigration Compliance Act of 2006, the Contractor understands and agrees that compliance with the requirements of O.C.G.A. § 13-10-91 and Georgia Department of Labor Rule 300-10-.02 are conditions of this Agreement. The Contractor further agrees that such compliance shall be attested by the Contractor through execution of the contractor affidavit required by Georgia Department of Labor Rule 300-10-1-.07, or a substantially similar contractor affidavit. The Contractor's fully executed affidavit is attached hereto as Exhibit \_\_\_\_ and is incorporated into this Agreement by reference herein.
  
- B. By initialing in the appropriate line below, the Contractor certifies that the following employee-number category as identified in O.C.G.A. § 13-10-91 is applicable to the Contractor:
  - 1. \_\_\_\_\_ 500 or more employees;
  - 2. \_\_\_\_\_ 100 or more employees;
  - 3. \_\_\_\_\_ Fewer than 100 employees.
  
- C. The Contractor understands and agrees that, in the event the Contractor employs or contracts with any subcontractor or subcontractors in connection with this Agreement, the Contractor shall:
  - 1. Secure from each such subcontractor an indication of the employee-number category as identified in O.C.G.A. § 13-10-91 that is applicable to the subcontractor;
  - 2. Secure from each such subcontractor an attestation of the subcontractor's compliance with O.C.G.A. § 13-10-91 and Georgia Department of Labor Rule 300-10-1-.02 by causing each such subcontractor to execute the subcontractor affidavit required by Georgia Department of Labor Rule 300-10-1-.08, or a substantially similar subcontractor affidavit. The Contractor further understands and agrees that the Contractor shall require the executed subcontractor affidavit to become a part of the agreement between the Contractor and each such subcontractor. The Contractor agrees to maintain records of each subcontractor attestation required hereunder for inspection by the Clayton County Water Authority at any time."

**Contractor:** \_\_\_\_\_

**Authorized Signature:** \_\_\_\_\_

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

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

**Division 2**

**Bid Requirements**

**Section 9: Contractor Affidavit & Agreement**

**CONTRACTOR AFFIDAVIT AND AGREEMENT**

By executing this affidavit, the undersigned contractor verifies its compliance with O.C.G.A. 13-10-91, stating affirmatively that the individual, firm, or corporation which is contracting with the Clayton County Water Authority has registered with, is participating in, uses, and will continue to use for the duration of the contract, the federal work authorization program – EEV/Basic Pilot Program operated by the U.S. Citizenship and Immigration Services Bureau of the U.S. Department of Homeland Security, in conjunction with the Social Security Administration (SSA), commonly known as E-Verify, in accordance with the applicability provisions and deadlines established in O.C.G.A. 13-10-91.

The undersigned further agrees that, in connection with the physical performance of services pursuant to this contract with the Clayton County Water Authority, the contractor will only employ or contract with subcontractor(s) who can present a similar affidavit verifying the subcontractor's compliance with O.C.G.A. 13-10-91. Contractor further agrees to maintain records of such compliance and provide a copy of each such verification to the Clayton County Water Authority within five days of the subcontractor(s) presenting such affidavit(s) to the contractor.

\_\_\_\_\_  
EEV / Basic Pilot Program User Identification Number  
*Please enter the four to six numerical characters*

\_\_\_\_\_  
BY: Authorized Officer or Agent

\_\_\_\_\_  
Date

\_\_\_\_\_  
Title of Authorized Officer or Agent if Contractor

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

SUBSCRIBED AND SWORN BEFORE ME ON THIS THE  
\_\_\_\_ DAY OF \_\_\_\_\_, 20\_\_.

\_\_\_\_\_  
Notary Public  
My Commission Expires:

\_\_\_\_\_

**Division 2**

**Bid Requirements**

**Section 9: Contractor Affidavit & Agreement**

**SUBCONTRACTOR AFFIDAVIT**

By executing this affidavit, the undersigned subcontractor verifies its compliance with O.C.G.A. 13-10-91, stating affirmatively that the individual, firm or corporation which is engaged in the physical performance of services under a contract with (name of contractor) \_\_\_\_\_

on behalf of the Clayton County Water Authority has registered with, is participating in, uses, and will continue to use for the duration of this contract the federal work authorization program – EEV/Basic Pilot Program operated by the U.S. Citizenship and Immigration Services Bureau of the U.S. Department of Homeland Security, in conjunction with the Social Security Administration (SSA), commonly known as E-Verify, in accordance with the applicability provisions and deadlines established in O.C.G.A. 13-10-91. The undersigned further agrees that the Subcontractor will maintain records of such compliance and provide a copy of each such verification to the Contractor within five days of the subcontractor(s) presenting such affidavit(s) to the Subcontractor.

\_\_\_\_\_  
EEV / Basic Pilot Program\* User Identification Number  
***Please enter the four to six numerical characters***

\_\_\_\_\_  
BY: Authorized Officer or Agent  
Subcontractor Name

\_\_\_\_\_  
Date

\_\_\_\_\_  
Title of Authorized Officer or Agent of Subcontractor

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

SUBSCRIBED AND SWORN BEFORE ME ON THIS THE  
\_\_\_\_ DAY OF \_\_\_\_\_, 20\_\_.

\_\_\_\_\_  
Notary Public

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

**Division 3**  
**Contract Forms**



**Division 3**

**Contract Forms**

**Section 1: Agreement Form**

**STATE OF GEORGIA**

**COUNTY OF CLAYTON**

**AGREEMENT FOR ONGOING PROVISION  
OF GOODS AND SERVICES**

This Agreement made and entered into this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, between the **CLAYTON COUNTY WATER AUTHORITY** (hereinafter "the Authority"), and \_\_\_\_\_, (hereinafter "the Contractor"), witnesseth:

**WHEREAS**, the Authority is contracting with the Contractor for the provision of certain goods and services described below for the term specified herein;

**NOW THEREFORE**, the parties agree as follows:

1. **DESCRIPTION OF GOODS AND SERVICES**: The Contractor shall provide the following goods and services to the Authority in such quantities as the Authority requires for **Annual Contract for Pipe Repairs and Replacements** as described in the Request for Bid dated July 2014.
2. **COSTS AND PAYMENTS**: The Authority shall pay the Contractor the prices as stipulated in the Bid Form hereto attached as full compensation relative to the Bid dated July 2014, and above described goods and services. The Contractor may submit to the Authority no more than one (1) pay application per week for a project work order and the submission shall be in such a form and matter with such other supporting data and content as the Authority may require and accompanied by the Authority's waiver and release upon payment. The Authority shall pay the Contractor net 30 days upon the date the Authority approves the Contractor's work and pay application for a project work order. Each project work order shall be completed within the time period as agreed to by both parties at the time of the project work order issuance. If said work is not completed within the time

**Division 3**

**Contract Forms**

**Section 1: Agreement Form**

frame stated on the project work order, the Contractor shall be liable to pay to the Authority, as liquidated damages the amount of \$500.00 per calendar day for each and every day or part of a day thereafter that said work remains substantially incomplete for that particular individual project work order.

3. **TERM OF AGREEMENT**: The term of this Agreement shall commence on the \_\_\_\_\_. The Agreement shall remain in effect until \_\_\_\_\_, 2014.
4. **RENEWAL PROVISIONS**: The Agreement may be renewed for the second and /or third 12 month period by mutual written consent by both parties with no changes in the terms and conditions.
5. **WARRANTY ON SERVICES RENDERED**: The Contractor warrants its workmanship to be free from defects for a period of two (2) years from the date of final acceptance. The Contractor further warrants that its workmanship will conform to all specifications and will perform as specified. Upon receipt of written notice of a defect in workmanship, the Contractor shall repair the defect in a timely manner at no expense to the Authority.
6. **WARRANTY ON GOODS PROVIDED**: The Contractor warrants its goods for a period of two (2) years from the date of final acceptance. Furthermore, the Contractor warrants that goods ordered to specifications will conform thereto and to any drawings, samples, or other description furnished or adopted by the Authority, and will be fit and sufficient for the purpose intended; and that all goods are merchantable, of good material and workmanship, and free from defect. Such warranties, together with the Contractor's service warranties and guarantees, if any shall survive inspection, test, acceptance of, and payment for the goods and shall run to the Authority, its successors, assigns, customers at any tier, and ultimate user and joint users. Notices of any defect or nonconformity shall be given by the Authority to the Contractor within fifteen (15) months after acceptance by ultimate user; provided however that in the event the goods are designed

## **Division 3**

## **Contract Forms**

### **Section 1: Agreement Form**

by the Contractor, notice must be given within three (3) years after acceptance by ultimate user. The rights and remedies of the Authority concerning latent defects shall exist indefinitely, and shall not be affected in clause. The Authority may, at its option, and in addition to other remedies available at law, either (i) return for credit, (ii) require prompt correction or replacement of the defective or nonconforming goods, or (iii) have the defective items corrected or replaced at the Contractor's expense and deduct the cost thereof from any monies due the Contractor. The return to the Contractor of any defective or nonconforming goods and delivery to the Authority of any corrected or replaced goods shall be at the Contractor's expense. Goods required to be corrected or replaced shall be at the Contractor's expense. Goods required to be corrected or replaced shall be subject to the provision of this paragraph and the paragraph of this Agreement entitled "inspection" on the same manner and to the same extent as goods originally delivered under this Agreement. In addition to correcting or replacing any defective or nonconforming goods, the Contractor shall also reimburse the Authority for all costs and expenses incurred by the Authority in connection with inspection and discovery of the defects, identifying and correcting the cause of such defects and all other activities reasonably undertaken by the Authority to obtain conforming goods or attempting to obtain from the ultimate user a waiver to permit the defective goods to be used with all or part of the defective conditions.

#### **7. GOODS SUPPLIED BY CCWA:**

- (a) In the event CCWA discovers that it has supplied materials other than Appropriate Materials ("Inappropriate Materials") to the Contractor, CCWA shall provide written notice of such situation to the Contractor.
- (b) In the event that CCWA supplies to the Contractor Inappropriate Materials and the Contractor utilizes the Inappropriate Materials in supplying all or any part of the services contemplated by this

## **Division 3**

## **Contract Forms**

### **Section 1: Agreement Form**

Agreement, the Contractor shall be paid the applicable bid prices and/or percentage of the lump sum bid prices as described in Paragraph 2 for such services as if such services had been performed with Appropriate Materials, except for any such services rendered after the Contractor's receipt of written notice from CCWA that Inappropriate Materials have been supplied by CCWA to the Contractor, for which services the Contractor shall receive no compensation. In no event shall payments made to the Contractor pursuant to the subparagraph (b) result in the Contractor receiving payments in excess of unit bid prices and/or lump sum bid prices as described in paragraph 2.

- (c) The Contractor, upon written request by CCWA, shall remove all Inappropriate Materials, supplied by CCWA, previously installed and install Appropriate Materials, supplied by CCWA in their place. In addition, the Contractor shall be paid as compensation for these additional services an amount equal to the amount described in subparagraph (b) above. In no event shall the additional consideration contemplated under this subparagraph (c) exceed unit bid prices and/or lump sum bid prices as described in paragraph 2.

- 8. **INSPECTION:** The Authority shall have the right to inspect the goods supplied hereunder at any time during the manufacture or fabrication thereof at the Contractor's facilities or elsewhere. Such inspection may include, without limitation, raw materials, components, work in process, and completed products as well as drawings, specifications, and released data. Final inspection and acceptance shall be after delivery to the delivery point designated by the Authority. If any inspection or test is made by the Authority at the Contractor's facility or elsewhere, the Contractor shall provide reasonable facilities and assistance for the inspection personnel. The Authority may reject all goods supplied hereunder, which are found to be defective. Goods so rejected may be returned to the Contractor at the

## **Division 3**

## **Contract Forms**

### **Section 1: Agreement Form**

Contractor's expense. No inspection, examination or test, regardless of extensiveness or type, and no approval give in connection with any such inspection, examination or test, whether under this Agreement or another contract for the same or similar goods, shall relieve it, of any obligation to comply fully with all requirements of this Agreement, including the obligation to produce goods that conform to all requirements of the drawings, specifications and any other Contract Documents. At the Authority's request, the Contractor shall repair or replace defective goods at the Contractor's expense. Failure to inspect goods, and failure to discover defects in goods or payment for goods shall not constitute acceptance or limit any of the Authority's rights, including without limitation those under the WARRANTY provisions of this Agreement. In the event inspection reveals a defect or defects and schedule urgency requires that the defect or defects be corrected by the Authority to support production, all cost of such correction, including without limitation installation and removal, will be charged to the Contractor; such charges will also include time and material and appropriate indirect and overhead expenses. The Contractor shall maintain in inspection system acceptable to the Authority covering the goods furnished hereunder.

9. **CONTRACTOR'S AFFIDAVITS AND CONSENT OF SURETY:** The Contractor shall issue a "Standard Contractor's Affidavit Interim Waiver and Release Upon Payment" and a "Standard Contractor's Affidavit Unconditional Waiver and Release upon Final Payment" provided by the Authority before receiving any interim or final payment for any services performed. Additionally the Contractor must submit a "Consent of Surety" before receiving the payment for any services performed that require payment and performance bonds.
10. **ASSIGNMENT AND SUBCONTRACTING:** The Contractor shall not assign this Agreement or any portion of this Agreement, nor shall the Contractor sub contract for goods or completed or substantially completed services

**Division 3**

**Contract Forms**

**Section 1: Agreement Form**

purchased hereunder without the prior express written consent of the Authority. No assignment or subcontract by the Contractor, including any assignment or subcontract to which the Authority consents, shall in any way relieve the Contractor from complete and punctual performance of this Agreement, including without limitation all of the Contractor's obligations under the WARRANTY provisions of this Agreement.

11. **THE AUTHORITY'S ASSISTANCE AND COOPERATION:** During the Contractor's performance of this Agreement, the Authority may, but has no obligation to, provide assistance to, or cooperate with, the Contractor in activities that facilitate the proper performance and completion of this Agreement by the Contractor. Such assistance and cooperation may include without limitation: (i) providing engineering or other analysis or advice on correcting problems; (ii) refraining from strict enforcement of time schedule requirements under this Agreement; (iii) permitting use of test materials or documentation not performed or produced under this Agreement. Such assistance or cooperation by the Authority shall not be construed, and the Contractor agrees that it will not claim that any such assistance or cooperation operates, to relieve the Contractor from complete, proper and punctual performance of all the Contractor's obligations under this Agreement.
12. **WORK ON THE AUTHORITY'S DESIGNATED PREMISES:** In the event that the Contractor, the Contractor's employees or agents or the Contractor's subcontractors enter the Authority's designated premises for any reason in connection with this Agreement, the Contractor and such other parties shall observe all security requirements and all plant safety, plant protection, and traffic regulations. The Contractor shall defend, indemnify, and hold the Authority harmless from all claims, actions, demands, loss, and causes of action, arising from injury, including death, to any person, or damage to any property, when such injury or damage results in whole or in part from the acts

## **Division 3**

## **Contract Forms**

### **Section 1: Agreement Form**

or omissions of the Contractor, the Contractor's employees or agents or the Contractor's subcontractor, save and except damage caused by the sole negligence of the Authority. The Contractor, and any subcontractor's used by the Contractor in connection with this Agreement, shall carry Workmen's Compensation and Employees' Liability Insurance to cover the Contractor's and any subcontractor's legal liability on account of accidents to their employees. The Contractor and any subcontractor shall carry adequate Comprehensive General Liability and adequate Comprehensive Automobile Liability Insurance covering accidents to their employees. The Contractor and any subcontractor shall carry adequate Comprehensive General Liability and adequate Comprehensive Automobile Liability Insurance covering legal liability of the Contractor and any subcontractor on account of accidents arising out of the operations of the Contractor or any subcontractor and resulting in bodily injury, including death, being sustained by any person or persons, or in any damage to property. At the Authority's request, the Contractor shall furnish to the Authority certificates from the Contractor's insurers showing such coverage in effect and agreeing to give the Authority ten (10) days; prior written notice of cancellation of the coverage.

13. **RISK MANAGEMENT REQUIREMENTS:** The Contractor shall abide by the Authority's applicable Risk Management Requirements, attached to this Agreement as Exhibit A and hereby incorporated into this Agreement.
14. **HOLD HARMLESS AGREEMENT:** To the fullest extent permitted by law, the Contractor shall indemnify and hold harmless the Authority, and its employees from and against claims, damages, losses and expenses, including but not limited to attorneys fees, arising out of or resulting from performance of this Agreement, provided that such claim, damage, loss or expense is attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property (other than the performance of the Agreement itself) including loss of use resulting thereof, but only to the extent caused in whole or in part by negligent acts or omissions of the Contractor, a

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Subcontractor, anyone directly or indirectly employed by them or anyone for whose acts they may be liable, regardless of whether or not such claim, damage, loss or expense is caused in part by a party indemnified hereunder.

Such obligation shall not be construed to negate, abridge, or reduce other rights or obligations of indemnity, which would otherwise exist as to a party or a person described in the paragraph.

In claims against any person or entity indemnified under this paragraph by an employee of the Contractor, a Subcontractor, anyone directly or indirectly employed by them or anyone for whose acts they may be liable, the indemnification obligation under this paragraph shall not be limited by a limitation on amount or type of damages, compensation or benefits payable by or for the Contractor or any Subcontractor under worker's or workmen's compensation acts, disability benefit acts or other employee benefit acts.

**15. TERMINATION FOR DEFAULT:**

- (a) The Authority may, subject to the provisions of subparagraph (c) below, by written notice of default to the Contractor, terminate the whole or any part of this Agreement in any one of the following circumstances; (i) if the Contractor fails to perform this Agreement within the time specified herein or any extension thereof; or (ii) if the Contractor fails to perform any of the other provisions of this Agreement, or so fails to make progress as to endanger performance of this Agreement in accordance with its terms, and does not cure such failure within a period of ten (10) days or longer period (as the Authority may authorize in writing) after receipt of notice from the Authority specifying such failure.
- (b) In the event the Authority terminates this Agreement in whole or in part as provided in subparagraph (a) above, the Authority may procure, upon such terms and in such manner as the Authority may deem appropriate, services, similar to those so terminated, and the Contractor shall be liable to the Authority for any Excess costs for the same, including without limitation all cost and expenses of the type specified in the



## **Division 3**

## **Contract Forms**

### **Section 1: Agreement Form**

"WARRANTY" paragraph of this Agreement; provided, that the Contractor shall continue the performance of this Agreement to the extent not terminated hereunder.

- (c) Except with regard to defaults of subcontractors, the Contractor shall not be liable for any excess costs if the failure to perform this Agreement arises out of causes beyond the control and without the fault of negligence of the Contractor such causes may include, but are not limited to, acts of God, or of the public enemy, acts of the Government in either its sovereign or contractual capacity, fires, flood, epidemics, quarantine restrictions, strikes, freight embargoes, and unusually severe weather, but in every case the failure to perform must be beyond the control and without the fault or negligence of the Contractor. If the failure to perform is caused by the default of a subcontractor, and if such default arises out of causes beyond the control of both the Contractor and the subcontractor, and without the fault of negligence of either of them, the Contractor shall not be liable for any excess costs for failure to perform, unless the services to be furnished by the subcontractor were obtainable from other sources in sufficient time to permit the Contractor to meet the required delivery schedule. The term "subcontractor" shall mean subcontractor at any tier.
- (d) If, after notice of termination of this Agreement under the provisions of this paragraph, it is determined for any reason that the Contractor was not in default under the provisions above or that the default was excusable under the provisions of this paragraph, the rights and obligations of the parties shall be the same as if the notice of termination has been issued pursuant to the "Termination for Convenience" paragraph of this Agreement.
- (e) The rights and remedies of the Authority provided in this paragraph shall not be exclusive and are in addition to any other rights and remedies provided by law or under this Agreement

**Division 3**

**Contract Forms**

**Section 1: Agreement Form**

16. **TERMINATION FOR CONVENIENCE**: The Authority may at any time by written notice terminate all or any part of this Agreement for the Authority's convenience. If this Agreement is terminated, in whole or in part, for the Authority's convenience, the Contractor shall be paid an amount, to be mutually agreed upon, which shall be adequate to cover the actual and reasonable cost paid by the Contractor for the actual goods and labor reasonably used by the Contractor to perform the work under this Agreement to the effective date of termination, plus a reasonable profit thereon; provided that no amount shall be paid to the Contractor for (i) any anticipatory profits related to work under this Agreement not yet performed, or (ii) costs incurred due to the Contractor's failure to terminate work as ordered on the effective date of termination. In no event shall the total amount paid under the provisions of this paragraph exceed the prices set forth in this Agreement for the work terminated.
17. **DISPUTES**: Pending resolution of any dispute hereunder, the Contractor shall proceed diligently with the performance of work in accordance with the Authority's direction.
18. **NOTICES**: All notices required or permitted to be given hereunder shall be deemed to be properly given if delivered in writing personally or sent by United States certified or registered mail addressed to the contractor or the Authority, as the case may be, with postage thereon fully prepaid. The effective time shall be at the time of mailing.
19. **ATTORNEYS' FEES**: The Contractor shall pay reasonable attorneys' fees to the Authority should the Authority be required to incur attorneys' fees in enforcing the provisions of this Agreement or in the collection of any monies herein required to be paid by the Contractor to the Authority.

**(SIGNATURES ON NEXT PAGE)**

**Division 3**

**Contract Forms**

**Section 1: Agreement Form**

IN WITNESS WHEREOF this \_\_\_\_\_ day of \_\_\_\_\_  
\_\_\_\_\_, 20\_\_\_\_, said parties have  
hereunto set their seals the day and year above first written.

Executed on behalf of:

**CLAYTON COUNTY WATER AUTHORITY**

BY: \_\_\_\_\_  
TITLE:

[Seal]

ATTEST: \_\_\_\_\_

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

**CONTRACTOR**

BY: \_\_\_\_\_  
TITLE:

[Corporate Seal]

ATTEST: \_\_\_\_\_

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

**Division 3**

**Contract Forms**

**Section 1: Agreement Form**

**EXHIBIT A**

**RISK MANAGEMENT REQUIREMENTS**

The Contractor will provide minimum insurance coverage and limits as per the following: The Contractor will file with the Authority Certificates of Insurance, certifying the required insurance coverages and stating that each policy has been endorsed to provide thirty (30) day notice to the Authority in the event that coverage is cancelled, non-renewed or the types of coverage or limits of liability are reduced below those required. All bonds and insurance coverage must be placed with an insurance company approved by Authority Management, admitted to do business in the State of Georgia, and rated Secure ("B+" or better) by A.M. Best Company in the latest edition of Property and Casualty Ratings, or rated by Standard & Poors Insurance Ratings, latest edition as Secure ("BBB" or better). Worker's Compensation self-insurance for individual Contractors must be approved by the Worker's Compensation Board, State of Georgia and/or Self-Insurance pools approved by the Insurance Commissioner, State of Georgia.

Hold harmless Agreement in favor of Authority, a copy of which is attached.

**CONTRACTS FOR UP TO \$40,000**

**Worker's Compensation** – Worker's Compensation coverage on a statutory basis for the State of Georgia with an Employer's Liability limit of \$100,000 each Accident, Disease \$100,000 each employee, \$500,000 Disease policy limit.

**Automobile Liability** – Automobile liability coverage for owned, hired and non-owned vehicles in the amount of \$500,000 combined single limit.

**Commercial General Liability** – Coverage to be provided on "occurrence" not "claims made" basis. The coverage is to include Contractual liability, Per Project Limit of Liability, losses caused by Explosion, Collapse and Underground ("xcu") perils, the "Clayton County Water Authority" is to be added as an Additional Insured and Products and Completed Operations coverage is to be maintained for three (3) years following completion of work.

**CONTRACTS FOR MORE THAN \$40,000**

**Worker's Compensation** – Worker's Compensation coverage on a statutory basis for the State of Georgia with an Employer's Liability limit of \$1,000,000. The increased Employer's Liability limit may be provided by an Umbrella or Excess Liability policy.

**Automobile Liability** - Automobile liability coverage for owned, hired and non-owned vehicles in the amount of \$1,000,000 combined single limit.

**Commercial General Liability** – Coverage to be provided on "occurrence" not "claims made" basis. The coverage is to include Contractual liability, Per Project Limit of Liability, losses caused by Explosion, Collapse and Underground ("xcu") perils, the "Clayton County Water Authority" is to be added as an Additional Insured and Products and Completed Operations coverage is to be maintained for three (3) years following completion of work.

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**Contract Forms**

**Section 1: Agreement Form**

**RISK MANAGEMENT REQUIREMENTS (Cont'd)**

**CONTRACTS FOR UP TO \$40,000**

**CONTRACTS FOR MORE THAN \$40,000**

**LIMITS OF LIABILITY:**

\$1,000,000	Per Occurrence
\$1,000,000	Personal and Advertising
\$50,000	Fire Damage*
\$5,000	Medical Payments*
\$1,000,000	General Aggregate
\$1,000,000	Products/Completed Operations per Occurrence and Aggregate

*\*These are automatic minimums*

**Owner's Protective Liability** – The Authority Management may, in its discretion, require Owner's Protective Liability in some situations.

**Umbrella and/or Excess Liability** – The umbrella or Excess Liability Policy may be used to combine with underlying policies to obtain the limits required. The Management of the Authority may elect to require higher limits.

**Owner's Protective Liability** – The Authority Management may, in its discretion, require Owner's Protective Liability in some situations.

**Division 3**

**Contract Forms**

**Section 1: Agreement Form**

**Before the start of any work, the Contractor shall furnish to the Clayton County Water Authority:**

1. Certificates of Insurance manifesting that the applicable above mentioned requirements have been met. All certificates are to contain:
  - The Name of the Insurance Company
  - Policy Number
  - Policy Inception and Expiration Dates
  - Name and Address of Agent
  - Limits of Liability
  - Type of Insurance Coverage
  - Any amendment that expands or reduces standard Insurance Service Office (ISO) policy coverage
  - Statement that the policy applies to the project number or job concerned
  - Attach a copy of Endorsement that shows that each of the policies have been amended to provide thirty (30) day notice to certificate holders prior to termination or non-renewal and that the General Liability Policy has been endorsed to show certificate holder as Additional insured.
  
2. An Endorsement incorporating the Hold Harmless Agreement assumed by the Contractor under the terms of this contract.

**The Contractor shall be wholly responsible for securing Certificates of Insurance coverage as set forth above from all Subcontractors who are engaged in this work.**

**END OF SECTION**

**Division 3**

**Contract Forms**

**Section 2: Performance Bond**

**KNOW ALL MEN BY THESE PRESENTS THAT** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ (as CONTRACTOR, hereinafter referred to as the  
"Principal"), and \_\_\_\_\_ (as SURETY COMPANY),  
hereinafter referred to as the "CONTRACTOR'S SURETY"), are held and firmly bound unto  
the Clayton County Water Authority (as OWNER, hereinafter referred to as the "Authority"),  
for the use and benefit of any "Claimant" as hereinafter defined in the sum  
of \_\_\_\_\_ Dollars (\$ \_\_\_\_\_) lawful  
money of the United States of America, for the payment of which the Principal and the  
Contractor's Surety bind themselves, their heirs, executors, administrators, successors and  
assigns, jointly and severally, firmly by these presents.

**WHEREAS**, the Principal has entered, or is about to enter, into a certain written  
agreement with the Authority, dated \_\_\_\_\_, which is incorporated  
herein by reference in its entirety (hereinafter referred to as the "CONTRACT"), for the  
construction of a project known as **Annual Contract for Pipe Repairs and  
Replacements**, (hereinafter referred to as "the PROJECT").

**NOW THEREFORE**, the conditions of this obligation are as follows:

1. That if the Principal shall fully and completely perform each and all of the  
terms, provisions and requirements of the Contract, including and during the  
period of any warranties or guarantees required thereunder, and all  
modifications, amendments, changes, deletions, additions, and alterations  
thereto that may hereafter be made; and if the Principal and the Contractor's  
Surety shall indemnify and hold harmless the Authority from any and all  
losses, liability and damages, claims, judgments, liens, costs and fees of  
every description, including but not limited to, any damages for delay, which

**Division 3**

**Contract Forms**

**Section 2: Performance Bond**

the Authority may incur, sustain or suffer by reason of the failure or default on the part of the Principal in the performance of any and all of the terms, provisions and requirements of the Contract, including all modifications, amendments, changes, deletions, additions, and alterations thereto and any warranties or guarantees required thereunder, then this obligation shall be void; otherwise to remain in full force and effect;

2. In the event of a failure of performance of the Contract by the Principal, which shall include, but not be limited to, any breach of default of the Contract;
  - a. The Contractor's Surety shall commence performance of its obligations and undertakings under this Bond no later than thirty (30) days after written notice from the Authority to the Contractor's Surety;
  - b. The means, method or procedure by which the Contractor's Surety undertakes to perform its obligations under this Bond shall be subject to the advance written approval of the Authority.

The Contractor's Surety hereby waives notice of any and all modifications, omissions, additions, changes and advance payments or deferred payments in or about the Contract, and agrees that the obligations undertaken by this Bond shall not be impaired in any manner by reason of any such modifications, omissions, additions, changes, and advance payments or deferred payments. The Parties further expressly agree that any action on this Bond may be brought within the time allowed by Georgia law for suit on contracts under seal.



**Division 3**

**Contract Forms**

**Section 2: Performance Bond**

IN WITNESS WHEREOF, the principal and Contractor's Surety have hereunto affixed their corporate seals and caused this obligation to be signed by their duly authorized officers or attorneys-in-fact, this \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_.

**(Name of Principal)**

\_\_\_\_\_

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

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

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

Corporate Seal

Attested: \_\_\_\_\_

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

**(Name of Contractor's Surety)**

\_\_\_\_\_

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

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

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

Corporate Seal

Attested: \_\_\_\_\_

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

(ATTACH SURETY'S POWER OF ATTORNEY)

**END OF SECTION**

**Division 3**

**Contract Forms**

**Section 3: Payment Bond**

**KNOW ALL MEN BY THESE PRESENTS THAT** \_\_\_\_\_  
 \_\_\_\_\_ (as CONTRACTOR, hereinafter  
 referred to as the "Principal"), and \_\_\_\_\_  
 (as SURETY COMPANY, hereinafter referred to as the "CONTRACTOR'S SURETY"), are  
 held and firmly bound unto the Clayton County Water Authority (as OWNER, hereinafter  
 referred to as the "Authority"), for the use and benefit of any "Claimant" as hereinafter  
 defined in the sum of \_\_\_\_\_  
 Dollars (\$\_\_\_\_\_), lawful money of the United States of America, for the payment of  
 which the Principal and the Contractor's Surety bind themselves, their heirs, executors,  
 administrators, successors and assigns, jointly and severally, firmly by these presents.

**WHEREAS**, the Principal has entered, or is about to enter, into a certain written agreement  
 with the Authority, dated \_\_\_\_\_, which is incorporated herein by reference in  
 its entirety (hereinafter referred to as the "CONTRACT"), for the construction of a project  
 known as **Annual Contract for Pipe Repairs and Replacements** (hereinafter referred to  
 as "the PROJECT").

**NOW THEREFORE**, the condition of this obligation is such, that if the Principal shall  
 promptly make payment to any Claimant, as hereinafter defined, for all labor, services and  
 materials used or reasonably required for use in the performance of the Contract, then this  
 obligation shall be void; otherwise to remain in full force and effect.

A "Claimant" shall be defined herein as any Subcontractor, person, Party,  
 partnership, corporation or other entity furnishing labor, services or materials used or  
 reasonably required for use in the performance of the Contract, without regard to whether  
 such labor, services or materials were sold, leased or rented, and without regard to

**Division 3**

**Contract Forms**

**Section 3: Payment Bond**

whether such Claimant is or is not in privity of the Contract with the Principal or any Subcontractor performing Work on the Project.

In the event of any claim made by the Claimant against the Authority, or the filing of a Lien against the property of the Authority affected by the Contract, the Contractor's Surety shall either settle or resolve the Claim and shall remove any such Lien by bond or otherwise as provided in the Contract.

The Parties further expressly agree that any action on this Bond may be brought within the time allowed by Georgia law for suit on contracts under seal.

**(SIGNATURES ON NEXT PAGE)**

**Division 3** **Contract Forms**

**Section 3: Payment Bond**

IN WITNESS WHEREOF, the Principal and Contractor's Surety have hereunto affixed their corporate seals and caused this obligation to be signed by their duly authorized officers on this \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_.

**(Name of Principal)**

\_\_\_\_\_

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

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

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

Corporate Seal

Attested: \_\_\_\_\_

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

**(Name of Contractor's Surety)**

\_\_\_\_\_

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

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

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

Corporate Seal

Attested: \_\_\_\_\_

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

(ATTACH SURETY'S POWER OF ATTORNEY)

**END OF SECTION**

**Division 3**

**Contract Forms**

**Section 4: Non-Collusion Certificate**

STATE OF \_\_\_\_\_, COUNTY OF \_\_\_\_\_

Personally appeared before the undersigned officer duly authorized by law to administer oaths

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

who, after being first duly sworn, depose and say that they are all the officers, agents, persons or employees who have acted for or represented

\_\_\_\_\_ in proposing or procuring the Contract with the Clayton County Water Authority on the following Project: **Annual Contract for Pipe Repairs and Replacements**, and that said \_\_\_\_\_

\_\_\_\_\_ has not by (himself, themselves) or through any persons, officers, agents or employees prevented or attempted to prevent by any means whatsoever competition in such bidding; or by any means whatsoever prevented or endeavored to prevent anyone from making a proposal therefore, or induced or attempted to induce another to withdraw a bid for said work.

ATTEST:

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

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

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

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

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

Sworn to and subscribed before me this \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_.

Notary Public: \_\_\_\_\_ My Commission expires: \_\_\_\_\_

**END OF SECTION**

# **Division 4**

# **Specifications**

## **Division 4**

## **Specifications**

### **Section 1: Post Award Submittals**

#### **1.1 General**

- A. This section describes the information that is required to be provided by the Contractor to facilitate work.
- B. Contractor shall submit, to the CCWA for approval to use, product information on all materials required to be provided by the Contractor unless noted otherwise.
  - 1. Where a material manufacturer is not specified, Contractor shall submit for use domestically manufactured materials.
  - 2. Materials provided by the Contractor not approved by the CCWA shall be subject to rejection without further justification.
- C. The Contractor shall schedule and make submissions as to cause no delay in work.
- D. Upon receipt of a submittal, the CCWA shall complete its review and return CCWA comments to Contractor within 10 business days.

#### **1.2 Submittal Requirements**

- A. Submittals to be provided with each individual Project Work Order.
  - 1. Specifications of materials being supplied (as necessary).
  - 2. Performance Bond and Payment Bond (as necessary).
  - 3. Traffic control plan (as necessary).
  - 4. Flow interruption plan (as necessary).
  - 5. Confined Space Entry Permit (as necessary).

**END OF SECTION**

## **Division 4**

## **Specifications**

### **Section 2: Work Assignment and Detail**

#### **2.1 General**

- A. This Section describes how work is to be assigned and the basis that will be used for processing applications for payment. These provisions will apply to all work of the Contract Documents in addition to specific instructions provided within the individual specification sections.
- B. The basis for payment will be the bid unit cost amounts included in the Pay Item Schedule and the actual quantities of work completed by the Contractor and approved by the CCWA. The CCWA reserves the right to adjust the quantities up or down as necessary to address needs.
- C. Nothing in this Section shall be construed as providing for additional payment beyond the Work Items. No payment will be made for partially completed Work Items. No payment will be made for the completion of excessive quantities of a Work Item as determined by the CCWA.

#### **2.2 Work Assignment and Detail**

- A. Work to be performed under this annual contract will be assigned on an as needed when needed basis as determined by the CCWA in the form of a Project Work Order.

##### Project Set-Up for Non-Emergency Work

1. CCWA shall prepare draft work items and quantities for Contractor review.
2. Contractor shall provide comments on the draft work items and quantities to CCWA within 7 calendar days of issuance by CCWA in order that a Project Work Order can be issued.
3. Contractor shall commence work on-site within 7 calendar days of receipt of a Project Work Order.

##### Project Set-Up for Emergency Work

1. CCWA shall prepare draft work items and quantities for Contractor review.
2. Contractor shall provide comments on the draft work items and quantities to CCWA within 24 hours of notice of emergency mobilization by CCWA in order that a Project Work Order can be issued.



## **Division 4**

## **Specifications**

### **Section 2: Work Assignment and Detail**

3. Contractor shall commence work on-site within 24 hours of notice of emergency mobilization by CCWA. CCWA shall issue Project Work Order prior to or concurrently with the start of work.
  
- B. A Project Work Order will be for work items that are in a common geographic location. A common geographic location may be considered a business/industrial park, city block or residential subdivision.
  
- C. Work of a Project Work Order shall be completed within the number of consecutive work days mutually agreed to by the Contractor and the CCWA prior to the start of the work. Unless approved by the CCWA in advance, the Contractor shall not leave the work site to complete work for others.

### **2.3 Work Items and Measurement**

The following descriptions explain the work that is to be completed as part of each Work Item. The Contractor shall provide all labor, equipment, tools and materials (unless indicated otherwise) to complete the Work Items in accordance with the Contract Documents. The following Work Items correspond to the Work Items listed on the "Pay Item Schedule" of the Bid Form.

**Work Item 1. Lowboy Service:** Defined as the Contractor utilizing tractor-trailer services to transport heavy equipment to and from a specific work site. The Work Item will be paid on a per "each" unit cost once per project work order in accordance with the Pay Item Schedule as authorized/approved by CCWA.

**Work Item 2. Emergency Mobilization:** Defined as the Contractor's administrative and preparatory operations which are necessary to arrive on-site and initiate work within 24 hours of a notice of an Emergency Mobilization request. The Work Item will be paid on a per "each" unit cost in accordance with the Pay Item Schedule when applicable as authorized/approved by CCWA. The costs for demobilization, and re-mobilizations due to shut downs or suspensions of the work caused by the Contractor shall not be compensated.

**Work Item 3. Performance and Payment Bonds:** Defined as the Contractor obtaining and providing to the CCWA Performance and Payment Bonds in the required amounts for a Public Works project costing \$100,000 or more in value.

## **Division 4**

## **Specifications**

### **Section 2: Work Assignment and Detail**

This Work Item will be paid on a per "each" unit cost in accordance with the Pay Item Schedule as authorized/approved by CCWA.

**Work Items 4 - 7. Traffic Control (County Road):** Defined as the Contractor preparing, securing and implementing an approved Clayton County Transportation and Development Department traffic control plan and utilizing all equipment and signs required by the MUTCD manual including a minimum of 2 fulltime flagmen to close lanes of traffic or a road for a day or portion thereof while actively performing work in lanes of traffic. . Traffic Control does not apply to accel/decel lanes or turning lanes. Traffic Control shall not be considered for loading/unloading equipment or loading/unloading material. The Work Items will be paid on a per "each" unit cost in accordance with the Pay Item Schedule and applicable Detail as authorized/approved by CCWA.

**Work Items 8 - 11. Traffic Control (State Road):** Defined as the Contractor preparing, securing and implementing an approved Georgia Department of Transportation traffic control plan and utilizing all equipment and signs required by the MUTCD manual including a minimum of 2 fulltime flagmen to close lanes of traffic or a road for a day or portion thereof while actively performing work in lanes of traffic. Traffic Control does not apply to accel/decel lanes or turning lanes. Traffic Control shall not be considered for loading/unloading equipment or loading/unloading material. The Work Items will be paid on a per "each" unit cost in accordance with the Pay Item Schedule and applicable Detail as authorized/approved by CCWA.

**Work Item 12. Construction Exit:** Defined as the Contractor installing a construction exit in accordance with the "Manual for Erosion and Sediment Control in Georgia", latest edition and removing and disposing upon the completion of work. The Work Item will be paid on a per "each" unit cost in accordance with the Pay Item Schedule as authorized/approved by CCWA.

**Work Items 13 - 15. Sediment Barrier Installation:** Defined as the Contractor installing Silt Fence – Type A, Silt Fence – Type C or Hay Bales as requested in accordance with "The Manual for Erosion and Sediment Control in Georgia", latest Edition. The Work Items will be paid on a per "linear foot" unit cost in accordance with the Pay Item Schedule as authorized/approved by CCWA.

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**Work Item 16. Sediment Barrier Removal:** Defined as the Contractor removing and disposing, Silt Fence Type-A, Silt Fence Type-C or Hay Bales and stabilizing any subsequent disturbed soil in accordance with Work Items "Soil Stabilization", as applicable. The Work Item will be paid on a per "linear foot" unit cost in accordance with the Pay Item Schedule as authorized/approved by CCWA.

**Work Item 17. Curb Inlet Sediment Trap:** Defined as the Contractor installing a curb inlet sediment trap in accordance with the "Manual for Erosion and Sediment Control in Georgia", latest edition and removing sediment trap and disposing upon the completion of work. The Work Item will be paid on a per "each" unit cost in accordance with the Pay Item Schedule as authorized/approved by CCWA.

**Work Items 18 - 21. Soil Stabilization:** Defined as the Contractor returning the disturbed soil grade to match existing conditions, removing and disposing all rocks and dirt clogs 3/4-inch in size and larger and installing straw mulch, seed and straw mulch, seed and matt blanket or sod to match existing grass type. Soil stabilization measures shall include lime and fertilizer and shall be installed in accordance with "The Manual for Erosion and Sediment Control in Georgia", latest Edition. The Work Items will be paid on a per "square foot" unit cost in accordance with the Pay Item Schedule and applicable Detail as authorized/approved by CCWA.

**Work Item 22. Hauling Material from Outside of County:** Defined as the Contractor transporting construction related material to a work site and unloading material from a materials facility located outside of Clayton County. Contractor shall make every effort to fully load each truck for transportation. The Work Item will be paid on a per "hour" unit cost from the time leaving the facility outside of Clayton County to the time arriving at the work site in accordance with the Pay Item Schedule as authorized/approved by CCWA.

**Work Items 23. Brush Removal:** Defined as the Contractor removing from the work site and disposing brush, undergrowth, small trees, limbs, stumps, tap roots and other roots exceeding 1-inch in diameter to a depth of at least 18 inches. A small tree is considered any tree or plant growth less than 4 inches in diameter

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as measured 54 inches up from adjacent bare ground surface. The Work Item will be paid on a per "square foot" unit cost in accordance with the Pay Item Schedule as authorized/approved by CCWA.

**Work Items 24 - 27. Tree Removal:** Defined as the Contractor removing from the work site and disposing, trees, limbs, stumps, tap roots and other roots exceeding 1-inch in diameter to a depth of at least 18 inches. A tree is considered a tree when its diameter is 4 inches or greater as measured 54 inches up from adjacent bare ground surface. The Work Items will be paid on a per "each" unit cost in accordance with the Pay Item Schedule and applicable Detail as authorized/approved by CCWA.

**Work Items 28 - 29. Fence Work:** Defined as the Contractor removing chain-linked fencing, wired fencing, wood privacy fencing and posts and disposing or subsequent reinstallation. Where reinstallation is required, Contractor shall provide necessary fasteners to match existing to complete the work. The Work Items will be paid on a per "linear foot" unit cost in accordance with the Pay Item Schedule and applicable Detail as authorized/approved by CCWA.

**Work Items 30 - 33. General Excavation:** Defined as the Contractor completing the excavation of soils and/or removal of structures, pipe and/or removal of debris to a required grade, dewatering as necessary and stockpiling or disposing. The Work Items may only be used when work cannot be completed through other Work Items of the Contract. The depth of work shall be determined by measuring from original ground surface to bottom of excavation. The Work Items will be paid on a per "in-place cubic foot" unit cost and applicable Detail in accordance with the Pay Item Schedule as authorized/approved by CCWA.

**Work Item 34. Rock Excavation:** Defined as the Contractor completing the removal, dewatering as necessary and stockpiling or disposing of solid material being greater than one (1) cubic yard in size which by actual demonstration cannot, in the opinion of the CCWA Engineer, be reasonably excavated with a minimum 135 horsepower excavator, in good condition and equipped with manufacturer's standard boom and rock points or similar approved equipment; and which must be systematically drilled and blasted or broken by power-

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operated hammer, hydraulic rock breaker or expansive compounds. The Contractor is responsible for repairs and/or replacement of damaged property(s) resulting from the work. The Work Item will be paid on a per "in-place cubic foot" unit cost in accordance with the Pay Item Schedule as authorized/approved by CCWA.

**Work Items 35 - 40. General Fill/Backfill:** Defined as the Contractor placing soil and/or stone of varying sizes in excavations or other areas and dewatering as necessary. When placing soil or crushed stone, material will be compacted to 95% of its maximum dry density as determined by a Standard Proctor Analysis. The Work Items may only be used when work cannot be completed through other Work Items of the Contract. The Work Items will be paid on a per "in-place cubic foot" unit cost in accordance with the Pay Item Schedule and applicable Detail as authorized/approved by CCWA.

**Work Items 41 - 49. Stone Placement:** Defined as the Contractor completing the excavation to required grade and removing and disposing soil and debris, placing stone of varying sizes to construct or add to slope grades, access road or parking area at requested layer thickness. Stone shall be compacted using vibratory equipment. The Work Items will be paid on a per "square foot" unit cost and applicable Detail in accordance with the Pay Item Schedule and as authorized/approved by CCWA.

**Work Item 50. Gabion Basket Installation:** (CCWA Provides Gabion Baskets and Stone and Contractor Delivers to Site) Defined as the Contractor assembling gabion baskets of various sizes at a requested location and installing stone of varying sizes into baskets. The Work Item will be paid on a per "cubic foot" unit cost in accordance with the Pay Item Schedule and as authorized/approved by CCWA.

**Work Item 51. Geotextile Fabric Installation:** Defined as the Contractor installing and anchoring geotextile fabric at a requested location. Geotextile Fabric will be woven or nonwoven fabric materials used to reinforce or separate soil and other materials. The Work Item will be paid on a per "square foot" unit cost in accordance with the Pay Item Schedule and as authorized/approved by CCWA.

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**Work Items 52 - 54. Steel Plate Installation:** Defined as the Contractor installing steel plates of varying sizes and thicknesses over excavations, installing pavement anchors and/or cold asphalt patch as required and removing plates upon completion of work. Steel Plate thickness for the applicable clear span shall be based on AASHTO H20-44 loading. Comply with "Steel Traffic Plate Installation" Detail. The Work Items will be paid on a per "day" unit cost in accordance with the Pay Item Schedule and applicable Detail as authorized/approved by CCWA.

**Work Item 55 - 58. Remove Asphalt Pavement:** Defined as the Contractor saw cutting through asphalt surfaces, removing asphalt pavement from work site and disposing. The Work Item will be paid on a per "square foot" unit cost in accordance with the Pay Item Schedule and applicable Detail as authorized/approved by CCWA.

**Work Item 59 - 63. Remove Concrete Flat Work:** Defined as the Contractor saw cutting through concrete surfaces, removing concrete from work site and disposing. The Work Item will be paid on a per "square foot" (SF) unit cost or a per "linear foot" (LF) unit cost in accordance with the Pay Item Schedule and applicable Detail as authorized/approved by CCWA.

**Work Item 60 - 61. Milling Pavement:** Defined as the Contractor using milling machines or cold planers to mill a 1 – 1/2 inch depth of the surface of paved areas such as roads, bridges or parking lots and removing and disposing of debris. The work will consist of milling up to 1500 SF and will be paid on a per "each" unit cost in accordance with Pay Item Schedule as authorized/approved by CCWA. Where more square footage is required the work item will be paid on a per "square foot" unit cost in accordance with Pay Item Schedule as authorized/approved by CCWA.

**Work Items 64 - 67. Asphalt Patching:** Defined as the Contractor preparing and compacting existing stone base and installing/compacting to a final 3-inch thick layer of Type E asphalt. Where a more or less than 3-inch thick layer of asphalt is required, layer shall be added or reduced in 1-inch thick increments. The Work Item will be paid on a per "square foot" unit cost in accordance with the

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Pay Item Schedule and applicable Detail as accepted/approved by CCWA. Where more or less asphalt is required the Work Item will be paid on a per "square foot" unit cost in accordance with the Pay Item Schedule and applicable Detail as authorized/approved by CCWA.

**Work Items 68 - 69. Asphalt Paving:** Defined as the Contractor preparing and compacting existing stone base and using a mechanical/hydraulic spreader machine and vibratory roller to install/compact to a final 3-inch thick layer of Type E asphalt. Where a more or less than 3-inch thick layer of asphalt is required, layer shall be added or reduced in 1-inch thick increments. The Work Items will be paid on a per "square foot" unit cost in accordance with the Pay Item Schedule and applicable Detail as accepted/approved by CCWA. Where more or less asphalt is required the Work Item will be paid on a per "square foot" unit cost in accordance with the Pay Item Schedule and applicable Detail as authorized/approved by CCWA.

**Work Items 70 - 75. Concrete Flatwork:** Defined as the Contractor preparing ground surface, installing necessary formwork, installing wire mesh or steel reinforcing as directed and placing commercial grade 3,000 psi concrete of varying thickness to a required grade. Placed concrete shall be vibratory consolidated prior to finishing. Control joints shall be installed at interval spacing of 1-1/2 times slab width or at maximum spacing of 10 feet, whichever is closer. Control joints, 1/4 of slab thickness, shall be installed by hand tooling during finishing or saw cut within 24 hours of initial placement. Concrete exposed to walking traffic shall be finished with a brush finish perpendicular to walking direction. Concrete not exposed to walking traffic shall be finished with a smooth steel trowel finish. Upon completion, formwork, wasted concrete and other debris shall be removed from the work site and disposed. The "Wire Mesh" description is for 4x4 – W2.1xW2.1 wire mesh. The "Steel Reinforcement" description is for No. 5, Grade 60 bars, supporting chairs and tie wire. The Work Items for concrete will be paid on a per "square foot" unit cost in accordance with the Pay Item Schedule and applicable depth Detail as authorized/approved by CCWA. The Work Item "Wire Mesh" will be paid on a per "square foot" unit cost in accordance with the Pay Item Schedule as authorized/approved by CCWA. The Work Item "Steel Reinforcement" will be paid on a per "linear foot" unit cost in accordance with the Pay Item Schedule as authorized/approved by CCWA.

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**Work Items 76 - 77. Curb and Gutter:** Defined as the Contractor preparing ground surface, installing necessary formwork and placing commercial grade 3,000 psi concrete. Control joints shall be installed at interval spacing not to exceed 10 feet. Control joints shall be installed by hand tooling during finishing. Concrete shall be finished with a brush finish parallel to road direction. Upon completion, formwork, wasted concrete and other debris shall be removed from the work site and disposed. The Work Items will be paid on a per "linear foot" unit cost in accordance with the Pay Item Schedule and applicable Detail as authorized/approved by CCWA.

**Work Item 78. Catch Basin Spillway Throat:** Defined as the Contractor preparing ground surface, installing necessary formwork and placing commercial grade 3,000 psi concrete. Concrete shall be finished with a brush finish perpendicular to road direction. Upon completion, formwork, wasted concrete and other debris shall be removed from the work site and disposed. The Work Item will be paid on a per "linear foot" unit cost in accordance with the Pay Item Schedule as authorized/approved by CCWA.

**Work Items 79 - 80. Pavement Striping:** Defined as the Contractor installing painted line of the appropriate color to asphalt and concrete surfaces of parking lots and roads. The Contractor shall provide a water-based paint, fast dry, formulated for pavement application; dry to the touch in 5 minutes, ready for traffic in 15 minutes. Sufficient paint shall be applied so that no asphalt or concrete color is visible through paint. The Work Items will be paid on a per "linear foot" unit cost in accordance with the Pay Item Schedule and applicable Detail as authorized/approved by CCWA.

**Work Item 81. Pavement Marking:** Defined as the Contractor installing painted handicap symbol, complying with Figure 3B-22 of the Manual on Uniform Traffic Control Devices, of the appropriate color to asphalt and concrete surfaces of parking lots. The Contractor shall provide a water-based paint, fast dry, formulated for pavement application; dry to the touch in 5 minutes, ready for traffic in 15 minutes. Sufficient paint shall be applied so that no asphalt or concrete color is visible through paint. The Work Item will be paid on a per "each" unit cost in accordance with the Pay Item Schedule as authorized/approved by CCWA.



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**Work Item 82. Pressure Washing:** Defined as the Contractor using a minimum 3,500 psi pressure washer and removing soil / mud and stains from asphalt and concrete surfaces. The Work Item will be paid on a per "square foot" unit cost in accordance with the Pay Item Schedule as authorized/approved by CCWA.

**Work Items 83 - 92. Pumping:** Defined as the Contractor providing, operating and maintaining a complete pumping system that includes pumps, suction/discharge piping, pipe plugs, coffer dams, fuel, etc. of the minimum size to meet peak flow conditions. Where Single is indicated, one pumping system is to be provided. Where Redundant is indicated, one additional pumping system of the same size and equipped with automatic calling features is to be provided and integrated with the Single Pump. The Work Items will be paid on a per "day" unit cost in accordance with the Pay Item Schedule and applicable Detail as authorized/approved by CCWA.

**Work Items 93 - 94. Pipe Installation - Open Cut:** (CCWA Provides Pipe and Necessary Fittings and Contractor Delivers to Site) Defined as the Contractor completing excavation work as necessary, dewatering as necessary, removing existing pipe, excess or unsuitable soil and debris from excavation and disposing as necessary, installing Copper Type K pipe of requested size at necessary grade, making all necessary connections (flared) and completing excavation backfill to original grade with soil compacted to 95% of its maximum dry density. In road crossings, parking lots and other areas where CCWA decides to backfill to the top of existing grade with stone, the backfill work will be paid from Work Items "General Fill/Backfill" on a per "in-place cubic foot" and will be measured from stone elevation shown in details to existing grade. Comply with "Pipe Installation on Grade – Up to 1" Copper" Detail. Where Installation/Replacement is indicated, up to 20 feet (length) of pipe is to be installed. Where Additional Footage is indicated, pipe is installed at lengths beyond that of 20 feet. The Work Item detailed as "Installation/Replacement" will be paid on a per "each" unit cost in accordance with the Pay Item Schedule as authorized/approved by CCWA. The Work Item detailed as "Additional Footage" will be paid on a per "linear foot" unit cost in accordance with the Pay Item Schedule as authorized/approved by CCWA.

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**Work Items 95 - 96. Pipe Installation - Augered:** (CCWA Provides Pipe and Necessary Fittings and Contractor Delivers to Site) Defined as the Contractor completing bore pit and receiving pit excavations for an augered bore, dewatering as necessary, removing excess or unsuitable soils and debris from work site and disposing as necessary, installing Copper Type K pipe of requested size by augering methods without casing at necessary grade, making all necessary connections (flared) and completing excavation backfill to original grade with soil compacted to 95% of its maximum dry density. In road crossings, parking lots and other areas where CCWA decides to backfill to the top of existing grade with stone, the backfill work will be paid from Pay Items "General Fill/Backfill" on a per "in-place cubic foot" and will be measured from stone elevation shown in details to existing grade. Where Installation/Replacement is indicated, up to 50 feet (length) of pipe is to be installed. Where Additional Footage is indicated, pipe is installed at lengths greater than 50 feet. The Work Item detailed as "Installation/Replacement" will be paid on a per "each" unit cost in accordance with the Pay Item Schedule as authorized/approved by CCWA. The Work Item detailed as "Additional Footage" will be paid on a per "linear foot" unit cost in accordance with the Pay Item Schedule as authorized/approved by CCWA.

**Work Items 97 - 99. Pipe Installation - Open Cut:** (CCWA Provides Pipe and Necessary Fittings and Contractor Delivers to Site) Defined as the Contractor completing excavation work to the required depth, dewatering as necessary, removing existing pipe, excess or unsuitable soil and debris from excavation and disposing as necessary, installing required bedding, installing Copper Type L pipe of requested size at necessary grade, making all necessary connections (ProPress®) and completing excavation backfill to original grade with soil compacted to 95% of its maximum dry density. In road crossings, parking lots and other areas where CCWA decides to backfill to the top of existing grade with stone, the backfill work will be paid from Work Items "General Fill/Backfill" on a per "in-place cubic foot" and will be measured from stone elevation shown in details to existing grade. Comply with "Pipe Installation on Grade – 1.5" to 2" Copper" Detail. The depth of work shall be determined by measuring from original ground surface to bottom of excavation and along the length of the excavation. Linear foot shall refer to the length of pipe installed including connecting couplings. The Work Items will be paid on a per "linear foot" unit cost

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in accordance with the Pay Item Schedule and applicable Detail as authorized/approved by CCWA.

**Work Items 100 - 102. Pipe Installation - Augered:** (CCWA Provides Pipe and Necessary Fittings and Contractor Delivers to Site) Defined as the Contractor completing bore pit and receiving pit excavations for an augered bore, dewatering as necessary, removing excess or unsuitable soils and debris from work site and disposing as necessary, installing Copper Type L pipe of requested size by augering methods without casing, making all necessary connections (ProPress®) and completing excavation backfill to original grade with soil compacted to 95% of its maximum dry density. In road crossings, parking lots and other areas where CCWA decides to backfill to the top of existing grade with stone, the backfill work will be paid from Pay Items "General Fill/Backfill" on a per "in-place cubic foot" and will be measured from stone elevation shown in details to existing grade. The depth of work shall be determined by measuring from original ground surface to bottom of pipe. Linear foot shall refer to the length of pipe installed including connecting couplings. The Work Items will be paid on a per "linear foot" unit cost in accordance with the Pay Item Schedule and applicable Detail as authorized/approved by CCWA.

**Work Items 103 - 352. Pipe Installation - Open Cut:** (CCWA Provides Pipe, Gaskets and Necessary Fittings and Contractor Delivers to Site) Defined as the Contractor completing excavation work to the required depth, dewatering as necessary, diverting flow as necessary, cutting and removing existing pipe of various types from excavation, excess or unsuitable soil and debris and disposing as necessary, installing required bedding, installing polyvinyl chloride (PVC), ductile iron (DI), steel reinforced concrete (RC), high density polyethylene (HDPE) or corrugated metal (CM) pipe and solid sleeves / couplings of requested size at necessary grade, making all necessary connections to pipe and manholes and completing excavation backfill to original grade with soil compacted to 95% of its maximum dry density. In road crossings, parking lots and other areas where CCWA decides to backfill to the top of existing grade with stone, the backfill work will be paid from Work Items "General Fill/Backfill" on a per "in-place cubic foot" and will be measured from stone elevation shown in details to existing grade. Comply with "Pipe Installation on Grade – PVC, HDPE" Detail and "Pipe Installation on Grade – DI, RC, CM" Detail. Gaskets for piping shall be standard

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rubber or Field-Lock®. This Work Item may also be used to excavate and remove pipe from the Work Site for disposal. This Item will be used to complete excavation bedding and backfill work to install fittings, valve boxes and taps to pipes. Installation of fittings (other than solid sleeves / couplings) will be paid through another Work Item. Where Point Repair is indicated, up to 20 feet (length) of pipe at a single location is to be installed. Where Additional Footage is indicated, pipe is installed at a linear footage beyond 20 feet. The depth of work shall be determined by measuring from original ground surface to bottom of excavation and along the length of the excavation. Linear foot shall refer to the length of pipe installed including connecting couplings. The Work Items detailed as "Point Repair" will be paid on a per "each" unit cost in accordance with the Pay Item Schedule and applicable depth Detail as authorized/approved by CCWA. The Work Item "Additional Footage" will be paid on a per "linear foot" unit cost in accordance with the Pay Item Schedule and applicable depth Detail as authorized/approved by CCWA.

**Work Items 353 - 372. Pipe Installation – Open Cut:** (CCWA Provides Pipe, Gaskets and Necessary Fittings and Contractor Delivers to Site) Defined as the Contractor completing excavation work to the required depth, dewatering as necessary, cutting and removing existing pipe of various types from excavation, removing excess or unsuitable soil and debris and disposing as necessary, installing required bedding, installing Steel Casing pipe of requested size at necessary grade, making all necessary connections and completing excavation backfill to original grade with soil compacted to 95% of its maximum dry density. In road crossings, parking lots and other areas where CCWA decides to backfill to the top of existing grade with stone, the backfill work will be paid from Work Items "General Fill/Backfill" on a per "in-place cubic foot" and will be measured from stone elevation shown in details to existing grade. Comply with "Pipe Installation on Grade – DI, RC, CM" Detail. Steel Casing wall thickness may vary from ¼ inch thick to ¾ inch thick. Contractor shall prepare ends of casing and continuously butt weld each joint and provide necessary welding rods. The depth of work shall be determined by measuring from original ground surface to bottom of excavation and along the length of the excavation. Linear foot shall refer to the length of pipe installed. The Work Items will be paid on a per "linear foot" unit cost in accordance with the Pay Item Schedule and applicable depth Detail as authorized/approved by CCWA. The Work Items detailed as "Weld" will be paid

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on a per "each" unit cost in accordance with the Pay Item Schedule as authorized/approved by CCWA.

**Work Items 373 - 379. Pipe Insertion into Steel Casing:** (CCWA Provides Pipe, Gaskets, Casing Spacers and Casing Seals and Contractor Delivers to Site) Defined as the Contractor installing PVC or DI piping of requested size through a Steel Casing, dewatering as necessary, installing restraining joint gaskets, installing a minimum of three casing spacers per piece of pipe and installing flexible rubber casing seals. Comply with "Pipe Insertion into Steel Casing" Detail. Linear foot shall refer to the length of pipe installed inside the casing. The Work Items will be paid on a per "linear foot" unit cost in accordance with the Pay Item Schedule and applicable Detail as authorized/approved by CCWA.

**Work Items 380 - 383. Polyethylene Pipe Encasement:** Defined as the Contractor installing tube-type polyethylene over piping of requested size during pipe installation operations, dewatering as necessary and securing open ends of polyethylene with tape. Linear foot shall refer to the length of polyethylene installed. Polyethylene Encasement material and installation will conform to standard ( ANSI/AWWA C105/A21.5 ). The Work Items will be paid on a per "linear foot" unit cost in accordance with the Pay Item Schedule and applicable Detail as authorized/approved by CCWA.

**Work Items 384 - 387. Direct Tap Into Pipe:** (CCWA Provides Fittings and Contractor Delivers to Site) Defined as the Contractor completing excavation work to the required depth, dewatering as necessary, removing and disposing excess or unsuitable soil and debris as necessary, installing a direct tap corporation valve into DI pipe at the 12 o'clock position and completing excavation backfill to original grade with soil compacted to 95% of its maximum dry density. The depth of work shall be determined by measuring from original ground surface to bottom of excavation. The Work Items will be paid on a per "each" unit cost in accordance with the Pay Item Schedule and applicable Detail as authorized/approved by CCWA.

**Work Items 388 - 396. Core Into Pipe:** (CCWA Provides Tapping Sleeve, Tapping Saddle, Valve and Valve Box and Contractor Delivers to Site) Defined

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as the Contractor installing tapping sleeve or saddle as requested, installing required valve, completing wet tap core or dry tap core into PVC or DI. The Work Items will be paid on a per "each" unit cost in accordance with the Pay Item Schedule and applicable Detail as authorized/approved by CCWA.

**Work Items 397 - 405. Connect Fitting / Valve To Pipe:** (CCWA Provides Necessary Fittings and Contractor Delivers to Site) Defined as the Contractor working above grade or below grade, cutting pipe as necessary and connecting Brass / Bronze, PVC, DI or rubber fitting or valve or fitting(s) / Valve(S) assembly to pipe using threaded, flared, ProPress®, push-on joint, sleeved standard mechanical, MJ Field-Lock®, MEGALUG® or banded connection methods, cutting to length and installing necessary pipe nipples. A valve installed as part the Work Item "Core Into Pipe" is not part of this Work Item. Each shall refer to each individual fitting or valve installed. The Work Items will be paid on a per "each" unit cost in accordance with the Pay Item Schedule as authorized/approved by CCWA.

**Work Items 406 - 407. Fire Hydrant Installation:** (CCWA Provides Fire Hydrant, Extinction Kit and Pipe and Contractor Delivers to Site) Defined as the Contractor completing excavation work to the required depth, dewatering as necessary, installing the requested Fire Hydrant and extension kits as necessary, cutting and installing pipe nipple up to 5-feet in length, making connections to valve and backfilling excavation to original grade with soil compacted to 95% of its maximum dry density. Remove excess or unsuitable soil and debris as necessary and dispose. Comply with "Typical Fire Hydrant" Detail. The Work Items will be paid on a per "each" unit cost in accordance with the Pay Item Schedule and applicable Detail as authorized/approved by CCWA.

**Work Item 408. Fire Hydrant (Existing) Vertical Adjustment:** (CCWA Provides Extension Kits and Contractor Delivers to Site) Defined as the Contractor completing excavation to required depth, dewatering as necessary, installing / removing requested extension kits, reassembling hydrant and backfilling excavation to original grade with soil compacted to 95% of its maximum dry density. Remove excess or unsuitable soil and debris as necessary and dispose. The Work Items will be paid on a per "each" unit cost in

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accordance with the Pay Item Schedule and applicable Detail as authorized/approved by CCWA.

**Work Items 409 - 410. Fire Hydrant Removal:** (CCWA Provides Mechanical Plug and Contractor Delivers to Site) Defined as the Contractor completing excavation to required depth, dewatering as necessary, removing fire hydrant and piping, up to 5 linear feet, to valve and disposing, installing mechanical plug on valve and backfilling excavation to original grade with soil compacted to 95% of its maximum dry density. Removing excess or unsuitable soil and debris as necessary and dispose. The Work Items will be paid on a per "each" unit cost in accordance with the Pay Item Schedule and applicable Detail as authorized/approved by CCWA.

**Work Item 411. Air / Vacuum Release Valve Installation:** (CCWA Provides Material and Contractor Delivers to Site) Defined as the Contractor assembling and installing an air / vacuum release valve(s) or assembly of various sizes onto a threaded or flanged tapping saddle or sleeve. Shut-off valves, bends, thread sealant associated with the valve(s) shall be installed as part of the Work Item. The Work Item will be paid on a per "each" unit cost in accordance with the Pay Item Schedule as authorized/approved by CCWA.

**Work Items 412 - 414. Meter Box Work:** (CCWA Provides Meter Box and Contractor Delivers to Site) Defined as the Contractor completing excavation as required, cutting existing piping at meter box as may be required, installing a new meter box, relocating an existing meter box or removing and disposing a meter box from the work site of the indicated size and backfilling excavation to original grade with soil compacted to 95% of its maximum dry density. In road crossings, parking lots and other areas where CCWA decides to backfill to the top of existing grade with stone, the backfill work will be paid from Pay Items "General Fill/Backfill" on a per "in-place cubic foot" and will be measured from stone elevation shown in details to existing grade. The Work Items will be paid on a per "each" unit cost in accordance with the Pay Item Schedule and applicable Detail as authorized/approved by CCWA.

**Work Items 415 - 418. Thrust Restraint Cast-In-Place Concrete:** Defined as the Contractor shaping excavation and/or installing formwork as may be required, placing the required quantity of commercial grade 3,000 psi concrete for the specified pipe size and removing any formwork prior to backfilling. Remove

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excess or unsuitable soil and debris as necessary and dispose. Placed concrete shall be vibratory consolidated. Comply with "Thrust Block Dimensions" Detail. The Work Items will be paid on a per "each" unit cost in accordance with the Pay Item Schedule and applicable Detail as authorized/approved by CCWA.

**Work Items 419 - 422. Flared End Section Installation:** (CCWA Provides Flared End and Contractor Delivers to Site) Defined as the Contractor completing excavation to grade and removing existing flared end section as may be required, installing a new flared end section or repositioning an existing flared end of RC, HDPE or Metal and of the indicated size and backfilling excavation to original grade with soil compacted to 95% of its maximum dry density. Remove excess or unsuitable soil, debris and existing flared end as necessary and dispose. The Work Items will be paid on a per "each" unit cost in accordance with the Pay Item Schedule and applicable Detail as authorized/approved by CCWA.

**Work Items 423 - 430. Precast Headwall Installation:** (CCWA Provides Precast Headwall and Contractor Delivers to Site) Defined as the Contractor completing excavation to grade and removing existing headwall and disposing as may be required, installing a new precast concrete headwall or repositioning an existing precast concrete headwall of the indicated size and backfilling excavation to original grade with soil compacted to 95% of its maximum dry density. Remove excess or unsuitable soil and debris as necessary and dispose. Where a double barrel headwall is to be installed, this Work Item may be used and the work will be considered as two installations. Contractor shall provide and install brick and mortar to seal annular space between headwall and piping and/or space between adjacent headwall sections. Brick shall conform to ASTM C32-11, Grade MS and MM, plain textured surface. Mortar shall conform to ASTM C270, Type S. The Work Items will be paid on a per "each" unit cost in accordance with the Pay Item Schedule and applicable Detail as authorized/approved by CCWA.

**Work Items 431 - 445. Precast Manhole Installation:** (CCWA Provides Precast Manhole and Contractor Delivers to Site) Defined as the Contractor completing excavation to required grade, dewatering as necessary, remove excess or unsuitable soil and debris as necessary and dispose, installing precast concrete manhole of requested size and backfilling excavation to original grade with soil compacted to 95% of its maximum dry density. In road crossings,



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parking lots and other areas where CCWA decides to backfill to the top of existing grade with stone, the backfill work will be paid from Work Items "General Fill/Backfill" on a per "in-place cubic foot" and will be measured from stone elevation shown in details to existing grade. Contractor shall provide and install mortar to seal lift holes and sectional joints. Where applicable, Contractor shall provide and install brick and mortar to seal annular space between manhole and piping and/or space between adjacent headwall sections. Brick shall conform to ASTM C32-11, Grade MS and MM, plain textured surface. This Work Item may also be used to excavate and install additional riser sections or remove / replace riser sections. Comply with "Manhole Sections" Detail and "Dog House Manhole" Detail. Where Constructed Height is indicated, height is measured from top of structure to structure's invert. For the first 6 Feet of completed structure, the Work Items will be paid on a per "each" unit cost in accordance with the Pay Item Schedule and applicable Detail as accepted/approved by CCWA. For additional height over 6 feet, the Work Items will be paid on a per "vertical foot" unit cost in accordance with the Pay Item Schedule as authorized/approved by CCWA.

**Work Items 446 - 453. Precast Box / Vault Installation:** (CCWA Provides Precast Box / Vault and Contractor Delivers to Site) Defined as the Contractor completing excavation to required grade, dewatering as necessary, remove excess or unsuitable soil and debris as necessary and dispose, installing precast concrete vault of requested size and backfilling excavation to original grade with soil compacted to 95% of its maximum dry density. In road crossings, parking lots and other areas where CCWA decides to backfill to the top of existing grade with stone, the backfill work will be paid from Work Items "General Fill/Backfill" on a per "in-place cubic foot" and will be measured from stone elevation shown in details to existing grade. Comply with "Precast Box / Vault" Detail. Where Constructed Height is indicated, height is measured from top of structure to structure's invert. For the first 6 Feet of completed structure, the Work Items will be paid on a per "each" unit cost in accordance with the Pay Item Schedule and applicable Detail as accepted/approved by CCWA. For additional height over 6 feet, the Work Items will be paid on a per "vertical foot" unit cost in accordance with the Pay Item Schedule as authorized/approved by CCWA.

**Work Items 454 - 463. Manhole Invert Construction:** Defined as the Contractor installing concrete or brick and mortar channels of the necessary shape and size in manholes to direct flow. Concrete shall be commercial grade

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3,000 psi compressive strength. Brick shall conform to ASTM C32-11, Grade SS and SM, smooth surface on both ends and face side. Mortar shall conform to ASTM C270, Type S. The Work Items will be paid on a per "each" unit cost in accordance with the Pay Item Schedule and applicable Detail as authorized/approved by CCWA.

**Work Items 464 - 465. Other Invert Construction:** Defined as the Contractor installing concrete or brick and mortar channels of the necessary shape and size to direct flow. Concrete shall be commercial grade 3,000 psi compressive strength. Brick shall conform to ASTM C32-11, Grade SS and SM, smooth surface on both ends and face side. Mortar shall conform to ASTM C270, Type S. The Work Items will be paid on a per "square foot" unit cost in accordance with the Pay Item Schedule and applicable Detail as authorized/approved by CCWA.

**Work Items 466 - 467. Ring and Cover:** (CCWA Provides Ring and Cover and Contractor Delivers to Site) Defined as the Contractor installing traffic rated or non-traffic rated cast iron ring and cover, setting ring to grade in formwork or with brick and mortar on structure as required, grouting ring to structure or brick work and backfilling excavation to original grade with soil compacted to 95% of its maximum dry density. In road crossings, parking lots and other areas where CCWA decides to backfill to the top of existing grade with stone, the backfill work will be paid from Work Items "General Fill/Backfill" on a per "in-place cubic foot" and will be measured from stone elevation shown in details to existing grade. Upon completion remove any formwork, debris or excess dirt and dispose. Brick shall conform to ASTM C32-11, Grade MS and MM, plain textured surface. Mortar shall conform to ASTM C270, Type S. The Work Items will be paid on a per "each" unit cost in accordance with the Pay Item Schedule and applicable Detail as authorized/approved by CCWA.

**Work Item 468. Precast Catch Basin Spillway:** (CCWA Provides Precast Catch Basin and Contractor Delivers to Site) Defined as the Contractor completing excavation to required grade, installing precast concrete catch basin spillway of various sizes and backfilling excavation to original grade with soil compacted to 95% of its maximum dry density. Upon completion any debris or excess dirt will be removed and disposed. The Work Item will be paid on a per

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"each" unit cost in accordance with the Pay Item Schedule as authorized/approved by CCWA.

**Work Item 469. Precast Catch Basin Top Slab:** (CCWA Provides Precast Catch Basin Slab and Contractor Delivers to Site) Defined as the Contractor completing excavation to required grade installing precast concrete catch basin top slab of various sizes and backfilling excavation to original grade with soil compacted to 95% of its maximum dry density. Upon completion any debris or excess dirt will be removed and disposed. The Work Item will be paid on a per "each" unit cost in accordance with the Pay Item Schedule as authorized/approved by CCWA.

**Work Items 470 - 473. Concrete Core:** Defined as the Contractor coring a hole of a requested size through existing concrete / steel reinforced concrete of varying thicknesses, loading concrete core piece and disposing and installing a Kor-N-Seal manhole to pipe connector or other seal required for the work. The Work Items will be paid on a per "each" unit cost in accordance with the Pay Item Schedule and applicable Detail as authorized/approved by CCWA.

**Work Items 474 - 477. Brick Work:** Defined as the Contractor installing brick and mortar to form walls of varying thickness and constructing boxes / vaults of requested sizes. Brick shall conform to ASTM C32-11, Grade MS and MM, plain textured surface. Mortar shall conform to ASTM C270, Type S. The "Brick Deep Wall Construction" description indicates the number of bricks used to construct the depth of the wall. The Work Items will be paid on a per "square foot" unit cost in accordance with the Pay Item Schedule and applicable Detail as authorized/approved by CCWA.

**Work Items 478 - 480. Concrete Work:** Defined as the Contractor excavating soil to required grade as necessary, setting formwork for footing, vertical wall, elevated slab and/or pier construction, installing steel reinforcement as directed and placing 3,000 psi commercial grade concrete, consolidating concrete with vibrator, removing formwork, backfilling excavation to original grade compacted to 95% of its maximum dry density and removing and disposing any waste material. The "Bulk" description is the concrete provided for the work. The "Form Work" description is form work needed for vertical wall construction or elevated slab construction including all plywood, fiberglass, walers, snap ties, form release agent, and incidentals to complete the work. The "Steel

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Reinforcement" description is for No. 5, Grade 60 bars, supporting chairs and tie wire. The Work Item "Bulk" will be paid on a per "cubic yard" unit cost in accordance with the Pay Item Schedule as accepted/approved by CCWA. The Work Item "Form Work" will be paid on a per "square foot" unit cost in accordance with the Pay Item Schedule as accepted/approved by CCWA. The Work Item "Steel Reinforcement" will be paid on a per "linear foot" unit cost in accordance with the Pay Item Schedule as authorized/approved by CCWA.

**Work Items 481 - 483. Cementitious Grouting:** Defined as the Contractor installing necessary piping and/or bulk heads to facilitate the work, placing minimum 500 psi grout and completely filling pipe or repairing pipe invert or other work as may be necessary and removing and loading for disposal any waste material. The "Grout Mixed By Hand" description is where mixture is provided in a sack, water is added at the work site and mixture and water are combined and mixed together using hand tools; cubic foot quantity is indicated on the sack. The "Grout Mixed By Plant" description is where mixture and water are combined at a plant and mixed in a cement truck. The "Pump Mobilization" description is where a pump is utilized to place grout. The Work Item "Grout Mixed By Hand" will be paid on a per "cubic foot" unit cost in accordance with the Pay Item Schedule as accepted/approved by CCWA. The Work Item "Grout By Plant Mixing" will be paid on a per "cubic yard" unit cost in accordance with the Pay Item Schedule as accepted/approved by CCWA. The Work Item "Pump Mobilization" will be paid on a per "each" unit cost in accordance with the Pay Item Schedule as authorized/approved by CCWA.

**Work Items 484 - 485. Chemical Grouting:** Defined as the Contractor installing necessary fittings, placing chemical grout to stop infiltration in concrete structures and/or fill voids in soil or other work as may be necessary and removing and disposing any waste material. The Work Item "Grout" will be paid on a per "gallon" unit cost in accordance with the Pay Item Schedule as accepted/approved by CCWA. The Work Item "Pump Mobilization" will be paid on a per "each" unit cost in accordance with the Pay Item Schedule as authorized/approved by CCWA.

**Work Items 486 - 488. Pressure Testing:** Defined as the Contractor installing necessary plugs and/or valve(s), pressurizing pipe segment between two structures with air and stopping pressurization and holding pressure at 4 psi for

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10 minutes without leakage or pressurizing pipe between two valves and/or plugs with water and stopping pressurization and holding pressure at 250 psi for 2 hours or filling a structure with water to a required level and measuring water level drop at no more than ¼-inch in 24 hours. The Work Items will be paid on a per "each" unit cost in accordance with the Pay Item Schedule and applicable Detail as authorized/approved by CCWA.

**Work Items 489 - 493. Hourly Labor:** Work Items shall be utilized on a case-by-case basis. Defined as the Contractor providing and utilizing the indicated labor position to complete work as requested for a certain amount of time. Only the time the labor position is on the work site and working will be considered for payment. The hourly rate shall be the Contractor's total expense per hour for the indicated labor position. The Work Items will be paid on a per "hour" unit cost in accordance with the Pay Item Schedule and applicable Detail as authorized/approved by CCWA.

**Work Items 494 - 504. Hourly Equipment:** Work Items shall be utilized on a case-by-case basis. Defined as the Contractor providing and utilizing the indicated piece of equipment to complete work as requested for a certain amount of time. Only the time the piece of equipment is in operation will be considered for payment. The hourly rate shall be the Contractor's total expense per hour for the indicated piece of equipment. The Work Items will be paid on a per "hour" unit cost in accordance with the Pay Item Schedule and applicable Detail as authorized/approved by CCWA.

**Work Item 505. Equipment Rental:** Work Item shall be utilized on a case-by-case basis. Defined as the Contractor furnishing equipment not included as part of other Work Items or listed in the Work Item "Hourly Equipment", to complete work. The Contractor may furnish equipment through a rental company or through the Contractor's company. Where the Contractor furnishes the equipment through the Contractor's company, industry standard rental rates for equivalent equipment shall apply. The Work Item will be paid at invoice cost plus a Contractor's 10% percent markup in accordance with the Pay Item Schedule as authorized/approved by CCWA.

**Work Item 506. Special Material:** Work Item shall be utilized on a case-by-case basis. Defined as the Contractor furnishing material, not included as part of other Work Items, needed to complete the work. The Work Item will be paid at

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### **Section 2: Work Assignment and Detail**

invoice cost plus a Contractor's 10% percent markup in accordance with the Pay Item Schedule as authorized/approved by CCWA.

**Work Item 507. Special Services:** Work Item shall be utilized on a case-by-case basis. Defined as the Contractor furnishing services through another firm, for work related to this Contract, that is not included on the Pay Item Schedule that is needed to complete the work. The Work Item will be paid at invoice cost plus a Contractor's 10% percent markup in accordance with the Pay Item Schedule as authorized/approved by CCWA.

**END OF SECTION**

## **Division 4**

## **Specifications**

### **Section 3: General Requirements**

#### **3.1 General**

- A. This section describes general requirements of the Contract.
- B. The Contractor shall provide all staff with photo identification and use vehicles with permanent company logos/markings/identification that are prominently displayed and clearly visible at all times.
- C. The Contractor shall provide an experienced supervisor in charge of field operations and subcontractors. The field supervisor shall be responsible for the safety of all site workers and site conditions, as well as ensuring that all work is conducted in conformance with these Specifications and to the level of quality specified. The field supervisor shall be responsible for reporting any safety or regulatory issue of concern immediately to CCWA.
- D. The Contractor shall use special care in work methods and take all necessary precautions against improper use of equipment to avoid damaging pipe and/or structures or CCWA, public and private property. If, in CCWA's opinion, the Contractor's work has caused damage, the Contractor shall repair the damage timely and to the complete satisfaction of CCWA at no additional cost. In the event that funds are expended by CCWA related to these activities the Contractor shall reimburse CCWA for any and all such costs.
- E. The CCWA shall not be responsible or compensate the Contractor for the damage to and/or loss of Contractor's equipment as result of the work.
- F. Entrance into any pipe or structure may be considered a Permit-Required Confined Space Entry. The Contractor shall be responsible for preparing and implementing a Confined Space Entry Plan in accordance with the Occupational Safety and Health Administration's (OSHA's) Permit Required Confined Space standard, contained in 29 Code of Federal Regulations (CFR) 1910.146. The CCWA reserves that right to have this document submitted at any time.

#### **3.2 Site Work**

- A. Work on a site shall be allowed Monday through Friday from 7:30 am to 6:00 pm; other times may be allowed by CCWA permission only.
- B. The Contractor shall be responsible for locating existing utilities in accordance with state and local regulations.

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## **Specifications**

### **Section 3: General Requirements**

- C. The Contractor shall complete excavation work utilizing trench shoring devices where applicable.
- D. The CCWA shall provide water as necessary for construction purposes at no expense to the Contractor. The excessive use of water shall be prohibited.
- E. The Contractor shall be responsible for providing and maintaining a safe work site. Contractor shall utilize safety cones, barricades, caution lights, caution tape, safety fencing, etc. as necessary to protect the workers and the public at all times.
- F. The work may require access to private property. The CCWA shall be responsible for coordinating and providing access to the area(s) of work. The Contractor shall contain work within area designated by CCWA.
- G. The work may be accessed on paved surfaces or non-paved surfaces. Contractor shall provide equipment capable of maneuvering all surfaces; this includes all-terrain vehicles. CCWA shall not be responsible for Contractor's equipment that becomes un-maneuverable due to site conditions.
- H. The Contractor shall employ the "best practicable means" to minimize and mitigate noise as well as disturbance resulting from operations. Mitigation measures shall include the utilization of sound suppression devices on all equipment and machinery, particularly in residential areas and in the near vicinity of hospitals and schools and especially at night.
- I. Contractor or any other worker may not establish quarters for the purpose of overnight stay or temporary residency on the work site or other CCWA property.
- J. The Contractor shall maintain the work site in a neat and orderly condition throughout the construction period. Remove and dispose of all construction related debris in accordance with local and state regulations. The burning of materials is not permitted on the work site or other CCWA property. At completion of work, remove temporary facilities, debris and equipment.

#### **3.3 Traffic Control**

- A. When required, the Contractor shall provide and maintain traffic control. Prior to work, the Contractor shall prepare and provide the CCWA and/or approving agency a copy of the local/state approved traffic control plan. Traffic safety devices including cones, signs, flashing lights, and other necessary safety



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## **Specifications**

### **Section 3: General Requirements**

equipment must be used to comply with local jurisdiction requirements and standard industry practices. A minimum of two Department of Transportation (D.O.T.) certified Flaggers will be required when closing any lane or road.

- B. CCWA operates as an agency within Clayton County and in coordination with other agencies including Clayton County and incorporated cities. The CCWA shall be responsible for coordinating the work in accordance with the requirements of local, state and federal authorities and jurisdictions as required; this includes fire, police, school, traffic, and other public safety authorities.

#### **3.4 Flow Interruption**

- A. Flow interruption may be completed using plugging, redirection/cofferdam or bypass pumping methods.
- B. Dumping or free flow of water onto private property, gutters, streets or sidewalks is prohibited. The Contractor shall perform flow interruption in such a manner as not to damage private or public property, or create a nuisance or public menace. After the work is completed, flow shall be returned to the piping and all temporary materials/equipment removed.
- C. When flow interruption of any type is to be utilized, the Contractor shall submit a plan for approval. The plan shall indicate flow interruption method and generally include a map that shows manholes/structures affected; this includes plugging/suction points, flow discharge points, space required for pump(s) set up and route for discharge piping. When applicable, the plan shall indicate pump and piping size; pumping capacity shall be capable of handling peak flows. The Contractor shall assume the pipes flow full and can surcharge to ground level during wet weather conditions. The plan shall include an emergency response plan to be followed in the event of a failure of the system.
- D. When bypass pumping is approved, the Contractor shall furnish, install and maintain pumps, appurtenances, bypass piping and fuel required to maintain existing flows and services. All pumps used shall be fully automatic self-priming units that do not require the use of foot-valves or vacuum pumps in the priming system. The pumps may be electric or diesel powered. All pumps used must be capable of running dry. Bypass pumping systems will be equipped to be operated continuously 24 hours per day. No more than

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## **Specifications**

### **Section 3: General Requirements**

two (2) pump discharge hoses shall be used for the bypass/diversion. If the flow exceeds the capacity of 2 hoses, then rigid piping shall be used. The rigid piping shall consist of HDPE or steel pipes with suitably pressure rated couplings to withstand twice the maximum system pressure or 50 psi, whichever is greater. Under no circumstances will aluminum irrigation type piping or glued PVC pipe be allowed. Pumped sewage shall be in an enclosed hose or pipe that is adequately protected from traffic.

- E. A bypass pumping "drill" shall be performed by the Contractor to demonstrate system readiness if requested by CCWA. The drill shall demonstrate the incorporation of all standby equipment to handle flows when the main pump set is switched off. Provisions to accommodate any of the CCWA's review comments following the drill shall be adhered to in full at no additional cost.
- F. The Contractor shall take all necessary steps to eliminate the overflow of sewerage. In the event of an overflow of sewerage the Contractor shall be responsible for cleanup of the area and all other pertinent activities as required by the Georgia Environmental Protection Division (GAEPD). All costs of these restoration/cleanup activities shall be the responsibility of the Contractor. In the event that funds are expended by the CCWA related to these activities the Contractor shall reimburse the CCWA for any and all such costs including but not limited to the costs expended by the CCWA for fines levied by the GAEPD.
- G. The Contractor shall be responsible for damage to public or private property due to flow interruption. All costs of restoration/cleanup activities shall be the responsibility of the Contractor. In the event that funds are expended by the CCWA related to these activities the Contractor shall reimburse the CCWA for any and all such.
- H. The Contractor will indemnify and hold harmless the CCWA for any fines or third-party claims for personal or property damage arising from flow interruption that is the responsibility of the Contractor. Should fines subsequently be imposed as a result of any flow interruption for which the Contractor is fully or partially responsible, the Contractor shall pay all such fines and all of the legal, engineering, and administrative costs in defending such fines and claims associated with flow interruption.

## **Division 4**

## **Specifications**

### **Section 3: General Requirements**

#### **3.5 Material Testing**

- A. CCWA will be testing soil fill and backfill for compaction requirements referenced in the Work Items. Soil tested and that does not meet the required percent compaction shall be excavated, replaced and compacted to meet the required percent compaction at the expense of the Contractor.
- B. CCWA will be testing supplied concrete for compressive strength referenced in the Work Items. Concrete tested that does not meet the required compressive strength shall be removed, disposed and replaced to meet the required compressive strength at the expense of the Contractor.
- C. Pipe, fitting, valve and structure work may be tested for leakage; work failing pressure test and found to be result of workmanship shall be repaired and retested at the expense of the Contractor.

#### **3.6 Acceptance**

- A. A CCWA Inspector shall inspect all components of work for compliance with the Contract. The Contractor shall, at all times, permit and facilitate inspection of work by the CCWA. The presence of a CCWA Inspector or other CCWA staff on the site of work shall not be construed to, in any manner, relieve the Contractor of their responsibility for strict compliance with the Contract. The CCWA Inspector shall inform the Contractor when work is deficient from the Contract. Deficiencies shall be addressed in a timely manner as determined by the CCWA Inspector.
- B. Final Acceptance of the work by the CCWA shall be when the Contractor has met all terms and conditions as set forth by the Contract. The date of Final Acceptance shall be no later than the date the CCWA approves the Contractor's final request for payment. Where applicable, Final Acceptance shall be written, signed and dated by the CCWA.

**END OF SECTION**

# **Attachments**

**STATE OF GEORGIA  
COUNTY OF CLAYTON**

**INTERIM WAIVER AND RELEASE UPON PAYMENT**

The undersigned mechanic and/or materialman has been employed by the Clayton County Water Authority to furnish:

\_\_\_\_\_ [describe materials and/or labor];

for the construction of improvements known as:

\_\_\_\_\_ [title of the project or building];

which is located in the City of \_\_\_\_\_, County of \_\_\_\_\_, and is owned by the Clayton County Water Authority at the following address:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

and more particularly described by the following metes and bounds description, land lot district, or block and lot number:

See Attachment:  yes  no

Upon the receipt of the sum of: \$ \_\_\_\_\_;

the mechanic and/or materialman waives and releases any and all liens or claims of liens it has upon the foregoing described property through the date signed below and excepting those rights and liens that the mechanic and/or materialman might have in any retained amounts, on account of labor or materials, or both, furnished by the undersigned to or on account of said contractor for said building or premises.

**NOTICE: WHEN YOU EXECUTE AND SUBMIT THIS DOCUMENT, YOU SHALL BE CONCLUSIVELY DEEMED TO HAVE BEEN PAID IN FULL THE AMOUNT STATED ABOVE, EVEN IF YOU HAVE NOT ACTUALLY RECEIVED SUCH PAYMENT, 60 DAYS AFTER THE DATE STATED ABOVE UNLESS YOU FILE EITHER AN AFFIDAVIT OF NONPAYMENT OR A CLAIM OF LIEN PRIOR TO THE EXPIRATION OF SUCH 60 DAY PERIOD.**

\_\_\_\_\_(L.S.)  
(Signature of Deponent)

\_\_\_\_\_  
(Printed/Typed Name and Title)

Deponent, individually, and as duly authorized agent and duly elected and acting officer of Contractor

\_\_\_\_\_  
(Company Name)

**PERSONALLY APPEARED BEFORE ME**, a Notary Public in and for said State and County, the Deponent, who, being personally known to the undersigned and being duly sworn and on oath deposed and said that the within and foregoing statements are true and correct this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_.

Notary Public \_\_\_\_\_

Commission Expiration Date: \_\_\_\_\_

(NOTARY SEAL)

\_\_\_\_\_  
(Witness)

\_\_\_\_\_  
(Address)

**STATE OF GEORGIA  
COUNTY OF CLAYTON**

**WAIVER AND RELEASE UPON FINAL PAYMENT**

The undersigned mechanic and/or materialman has been employed by the Clayton County Water Authority to furnish:

\_\_\_\_\_ [describe materials and/or labor];

for the construction of improvements known as:

\_\_\_\_\_ [title of the project or building];

which is owned by the Clayton County Water Authority at the following address:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

and more particularly described by the following metes and bounds description, land lot district, or block and lot number:

See Attachment:  yes  no

Upon the receipt of the sum of: \$ \_\_\_\_\_;

the mechanic and/or materialman waives and releases any and all liens or claims of liens or any right against any labor and/or material bond it has upon the foregoing described property.

THE MECHANIC AND/OR MATERIALMAN WAIVES AND RELEASES ANY AND ALL LIENS OR CLAIMS OF LIENS IT HAS UPON THE FOREGOING DESCRIBED PROPERTY OR ANY RIGHTS AGAINST ANY LABOR AND/OR MATERIAL BOND ON ACCOUNT OF LABOR OR MATERIALS, OR BOTH, FURNISHED BY THE UNDERSIGNED TO OR ON ACCOUNT OF SAID CONTRACTOR FOR SAID PROPERTY.

**NOTICE: WHEN YOU EXECUTE AND SUBMIT THIS DOCUMENT, YOU SHALL BE CONCLUSIVELY DEEMED TO HAVE BEEN PAID IN FULL THE AMOUNT STATED ABOVE, EVEN IF YOU HAVE NOT ACTUALLY RECEIVED SUCH PAYMENT, 60 DAYS AFTER THE DATE STATED ABOVE UNLESS YOU FILE EITHER AN AFFIDAVIT OF NONPAYMENT OR A CLAIM OF LIEN PRIOR TO THE EXPIRATION OF SUCH 60 DAY PERIOD.**

**PERSONALLY APPEARED BEFORE ME**, the undersigned attesting officer, duly authorized by law to administer oaths (the "Deponent"), who being duly sworn according to law, deposes and says on oath:

1. That Deponent is the duly authorized agent and duly elected and acting officer of \_\_\_\_\_ (the "Contractor"), and is duly authorized to execute this Final Contractor's Affidavit, Lien Waiver and Indemnification (this "Affidavit") in a representative capacity on behalf of Contractor, as well as in Deponent's individual capacity, and Deponent has made diligent inquiry into and is personally familiar with and has full knowledge of all facts set forth herein.

2. That Contractor acted as the sole general contractor in charge of and directly responsible for the building and construction of all improvements (the "Work") located as reflected above (the "Property"), all of which Work was performed pursuant to the terms of that certain agreement dated \_\_\_\_\_ (the "Agreement") by and between Contractor and the Clayton County Water Authority as the owner or agent of the owner of the Property (the "Owner"). The Work includes, without limitation, all Work under or related to the Agreement and all change orders to the Agreement, and all supplemental contracts and subcontracts, whether oral or written, for any extra, additional or replacement labor or materials. Contractor is, and performed the Work as, an independent general contractor and Contractor is not an agent of Owner, and all of the Work was furnished and performed at the instance of Contractor as general contractor.

3. That the Work has been fully and finally completed in strict accordance with the terms of the Agreement, and Contractor has at all times since the commencement of the Work been in direct charge of all aspects of the Work, and Contractor has obtained a current valid permanent certificate of occupancy for the Property and the Work, and the Work has been completed within the boundary lines of the Property.

4. Upon receipt of the sum reflected above, Contractor acknowledges that Owner has paid in full to Contractor the full contract price under the Agreement (the "Contract Price"), which Contract Price includes, without limitation, all amounts and bills for all labor, materials, fixtures and supplies of any type whatsoever used in the Work. Upon receipt of these monies, all contractors, subcontractors, subcontractors of subcontractors, materialmen, suppliers and laborers will be paid in full the agreed price or reasonable value for all materials and supplies ordered, used or furnished and services and labor rendered in connection with or as a part of the Work, and none of such parties have or will have any claim, demand or lien against the Property, and all of the amounts paid by Owner to Contractor under the Agreement have been and will be used to pay for labor or materials used in the Work when no liens or claims of lien were filed or outstanding. There are no disputes regarding the Agreement or any other contracts or subcontracts with respect to the Work or the Property, and, except for bills associated with these final monies, there are no amounts due or unpaid bills of any nature, either for labor or services related to the Work or the Property or any materials which have been or may have been placed upon, or applied or delivered to the Property, and Contractor does hereby unconditionally agree to hold harmless and indemnify Owner from and against all claims for mechanic's or materialman's liens or claims of lien, including, without limitation, any attempted foreclosure thereof, which in any way arise out of or are related to the Work or the Property, including, without limitation, any attorney's fees incurred in connection therewith.



5. That Contractor does hereby for itself, and its employees, suppliers, subcontractors, mechanics and materialmen and all other persons acting for, through, or under Contractor, waive, remise, relinquish and release all right to file or to have filed or to maintain any materialman's or mechanic's lien or liens or claim or claims against the Property or arising out of or related to the Work. This Affidavit is executed and given in favor of and for the benefit of, and may be relied upon by, Owner and each and every party legally or equitably, now or hereafter, owning or holding any interest in the Property.

6. That this Affidavit is a sworn statement made under the provisions of Official Code of Georgia Annotated Section 44-14-361.2, and is made for the purpose of inducing Owner to pay to Contractor the balance of the Contract Price pursuant to the terms of the Agreement.

\_\_\_\_\_(L.S.)  
(Signature of Deponent)

\_\_\_\_\_  
(Printed/Typed Name and Title)

Deponent, individually, and as duly authorized agent and duly elected and acting officer of Contractor

\_\_\_\_\_  
(Company Name)

**PERSONALLY APPEARED BEFORE ME**, a Notary Public in and for said State and County, the Deponent, who, being personally known to the undersigned and being duly sworn and on oath deposed and said that the within and foregoing statements are true and correct this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_.

Notary Public \_\_\_\_\_

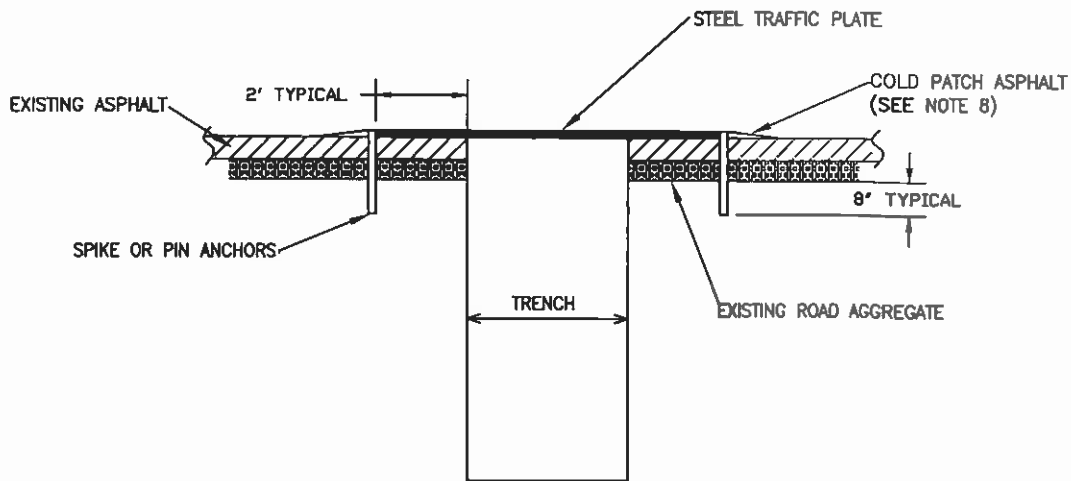
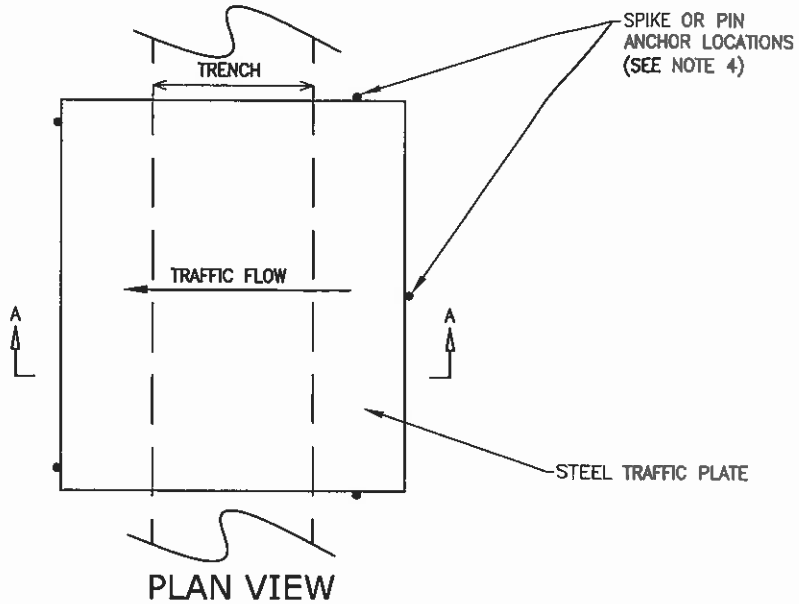
Commission Expiration Date: \_\_\_\_\_

(NOTARY SEAL)

\_\_\_\_\_  
(Witness)

\_\_\_\_\_  
(Address)

## **Details**



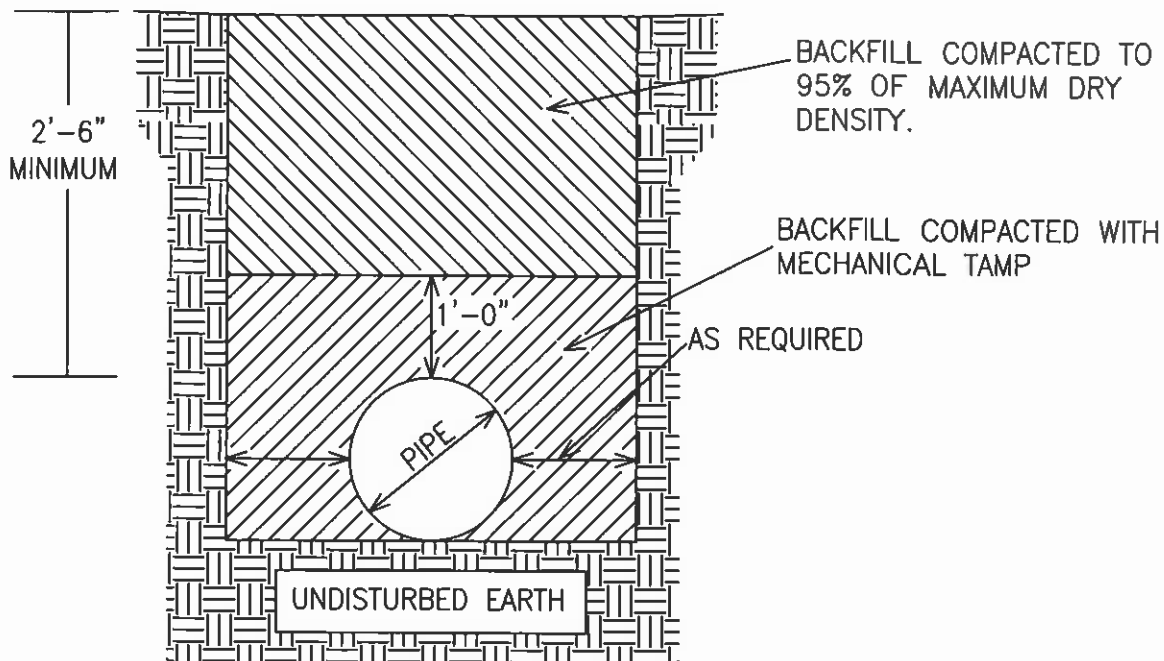
SECTION A-A

NOTES

1. TRAFFIC BASED ON H20-44 (SINGLE TIRE/PLATE). HAVING A UNIFORM LOAD OF 640Lb. PER LINEAL FOOT ON LOAD LANE.
2. PLATE ARE TO BE UNIFORMLY SUPPORTED AND CENTERED OVER TRENCH.
3. TRENCH WALLS UNDER THE PLATES SHALL BE UNIFORMLY SUPPORTED FROM TOP TO BOTTOM.
4. PLATES SHOULD BE ANCHORED TO PREVENT LATERAL MOVEMENT.
5. SUPPORTING SURFACE ON EACH SIDE OF THE TRENCH SHALL BE SMOOTH AND HARD (CONCRETE, ASPHALT SURFACES OR EQUAL).
6. STEEL TRAFFIC PLATES SHALL BE A MINIMUM OF ONE INCH THICK.
7. TACK WELD PLATES TOGETHER AS NECESSARY TO PREVENT MOVEMENT BETWEEN ADJACENT PLATES.
8. USE COLD PATCH ASPHALT ALONG ALL EDGES OF PLATES TO ENSURE SMOOTH TRANSITION FOR TRAFFIC.

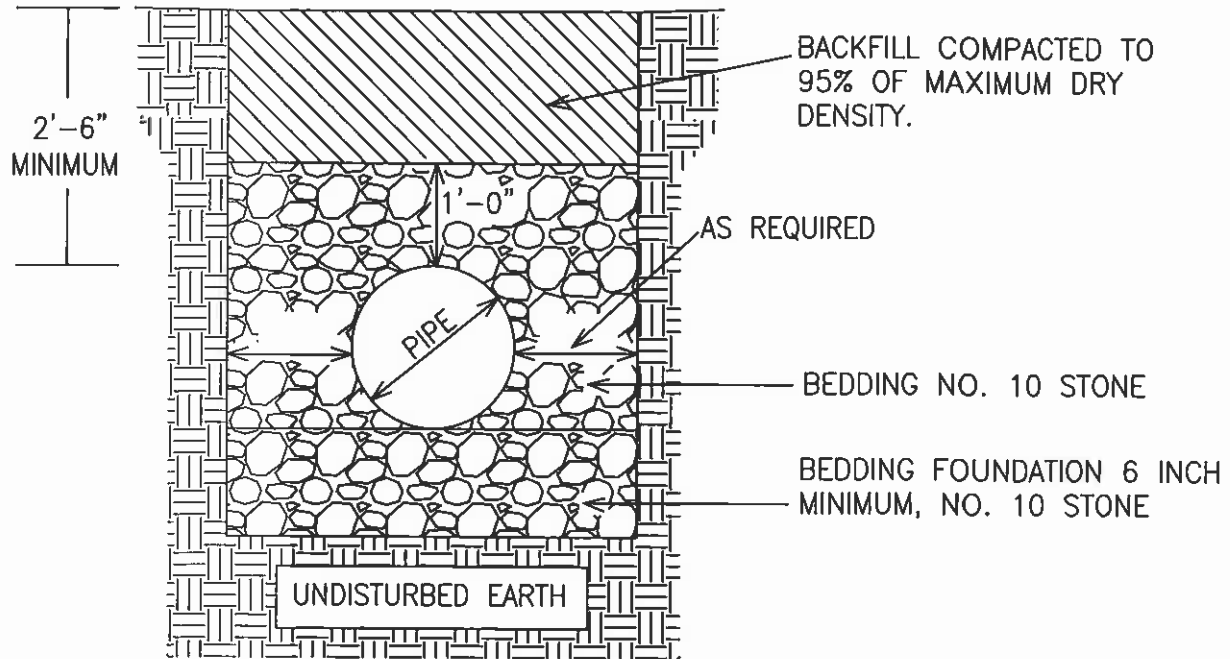
CLAYTON COUNTY WATER AUTHORITY

DATE:	16 MAY 2013	DETAIL TITLE:
SCALE:	N.T.S.	STEEL TRAFFIC PLATE INSTALLATION
DRAWN BY:	WWB	



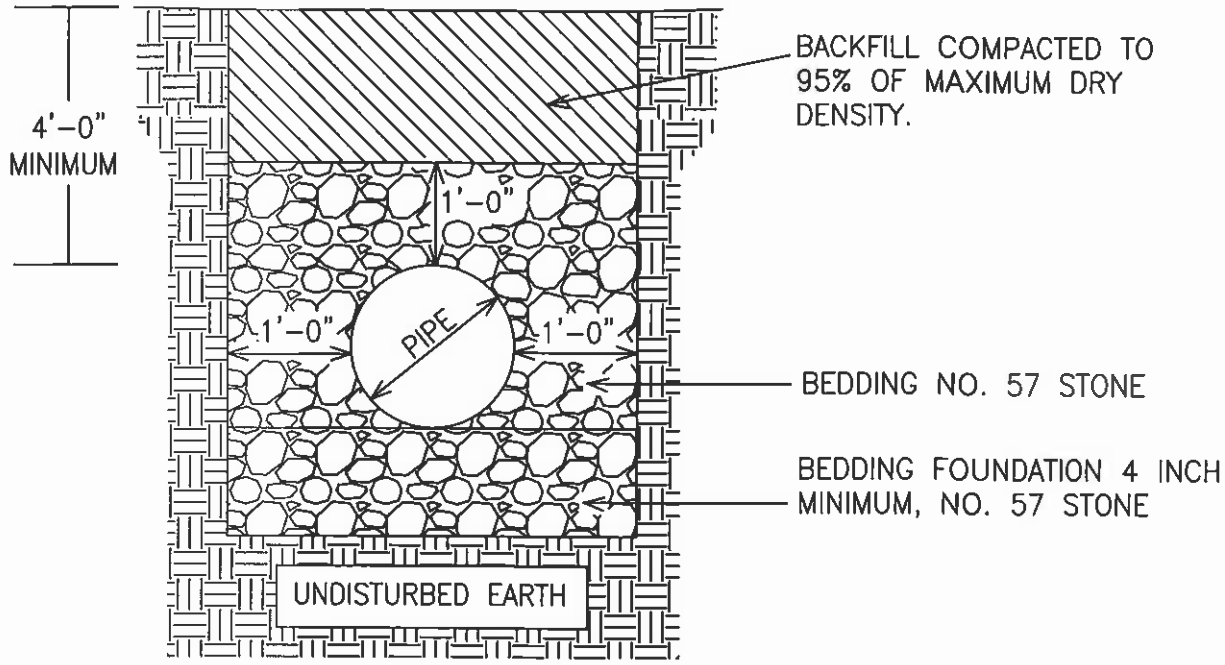
CLAYTON COUNTY WATER AUTHORITY

DATE:	16 MAY 2013	DETAIL TITLE:
SCALE:	N.T.S.	PIPE INSTALLATION ON GRADE UP TO 1" COPPER
DRAWN BY:	WWB	



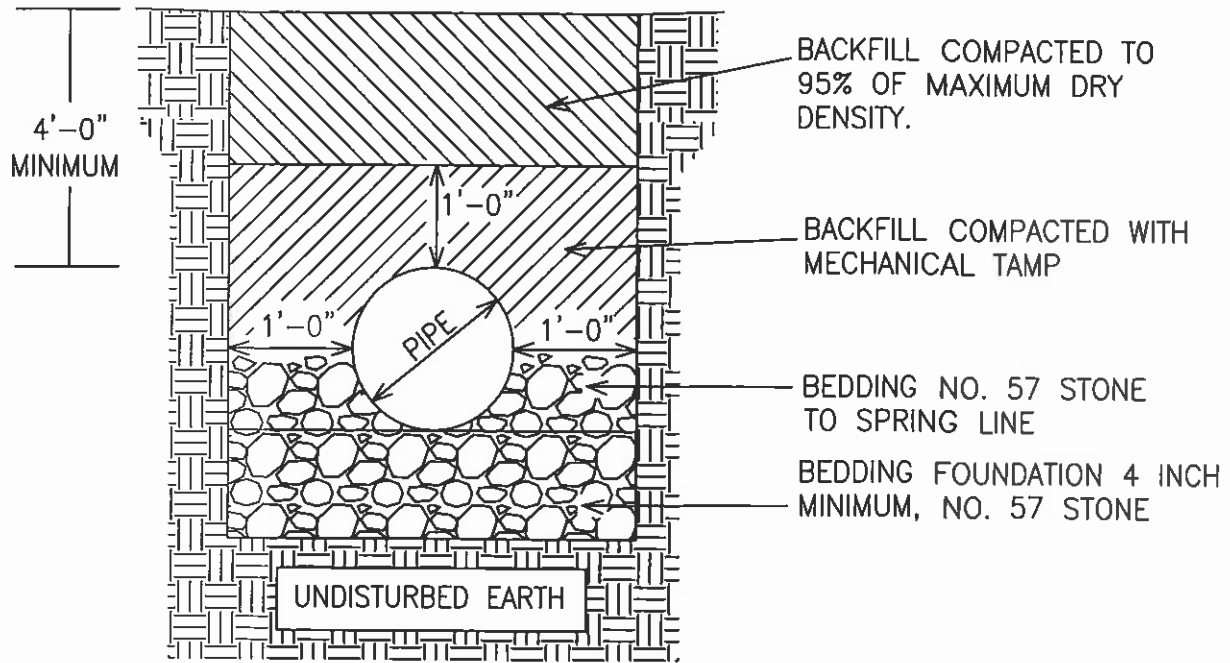
CLAYTON COUNTY WATER AUTHORITY

DATE:	16 MAY 2013	DETAIL TITLE:
SCALE:	N.T.S.	PIPE INSTALLATION ON GRADE 1.5" OR 2" COPPER
DRAWN BY:	WWB	



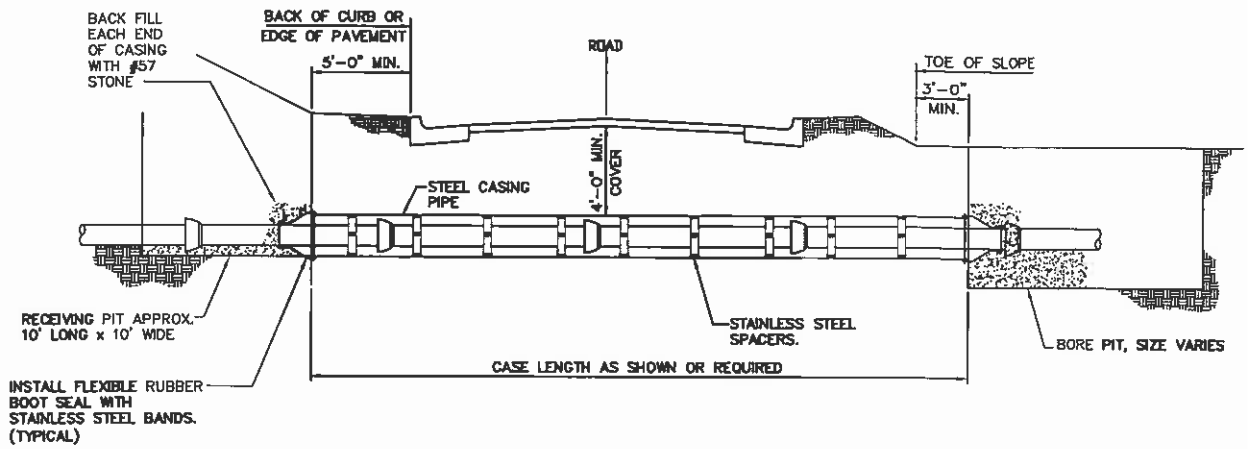
CLAYTON COUNTY WATER AUTHORITY

DATE:	16 MAY 2013	DETAIL TITLE:
SCALE:	N.T.S.	PIPE INSTALLATION ON GRADE PVC, HDPE
DRAWN BY:	WWB	



CLAYTON COUNTY WATER AUTHORITY

DATE:	16 MAY 2013	DETAIL TITLE:
SCALE:	N.T.S.	PIPE INSTALLATION ON GRADE DI, RC, CM
DRAWN BY:	WWB	

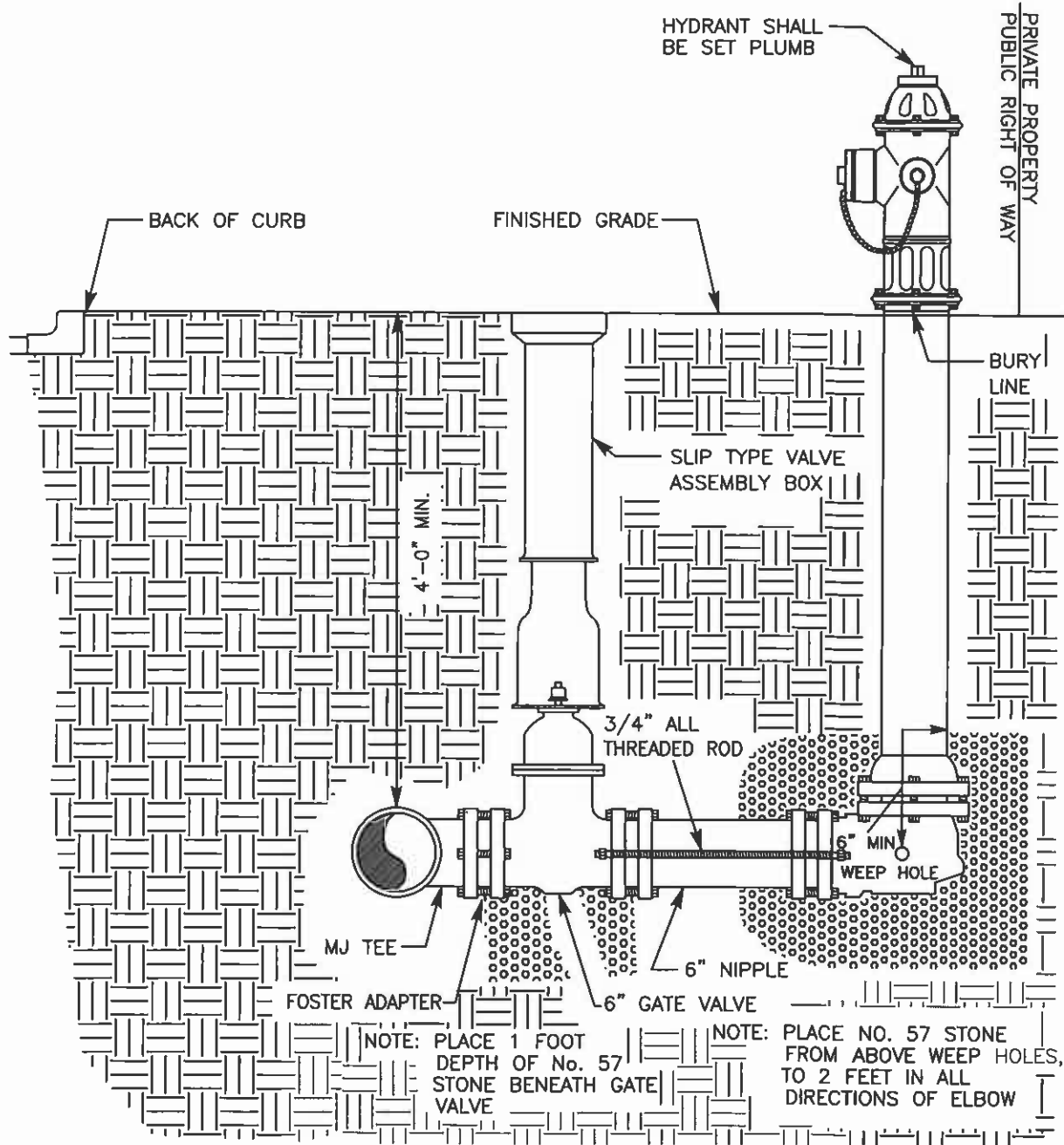


NOTE: PLACEMENT OF SPACERS SHALL BE THREE PER JOINT OR AS RECOMMENDED BY PIPE MANUFACTURER.

CLAYTON COUNTY WATER AUTHORITY

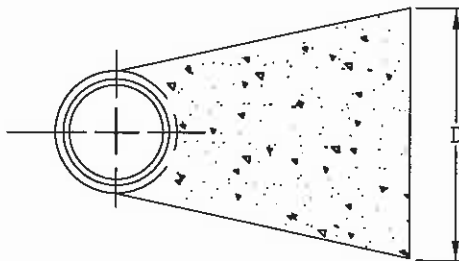
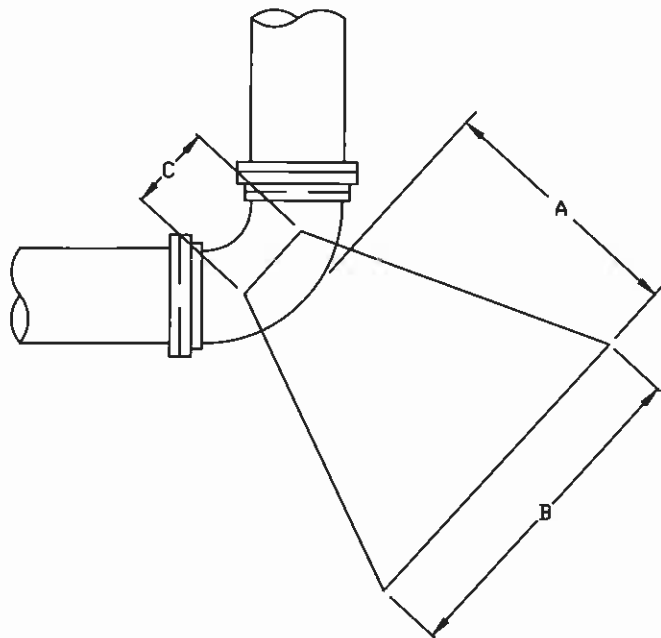
DATE:	16 MAY 2013	DETAIL TITLE:
SCALE:	N.T.S.	PIPE INSERTION INTO STEEL CASING
DRAWN BY:	WWB	





CLAYTON COUNTY WATER AUTHORITY

DATE:	16 MAY 2013	DETAIL TITLE:
SCALE:	N.T.S.	TYPICAL FIRE HYDRANT
DRAWN BY:	SRD	



SECTION

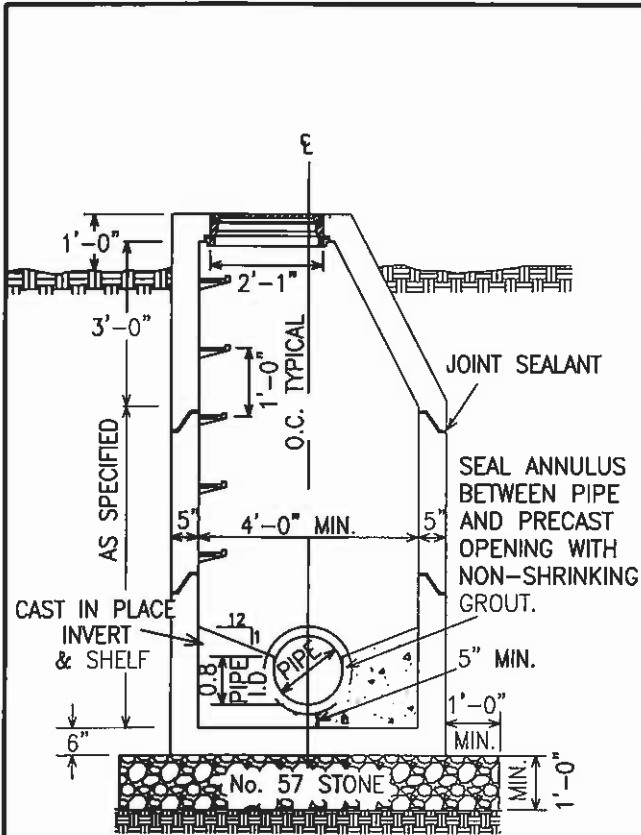
MINIMUM DIMENSIONS FOR CONCRETE BLOCKING					
BEND	PIPE SIZE	A	B	C	D
11 1/4°	6"	1.0'	1.0'	7"	1.0'
	8"	1.0'	1.25'	7"	1.0'
	12"	1.0'	2.0'	11"	2.0'
	16"	2.0'	3.0'	15"	2.0'
	20"	2.0'	3.0'	19"	3.0'
	24"	3.0'	4.0'	22"	3.0'
22 1/2°	6"	1.0'	1.5'	7"	1.0'
	8"	1.0'	2.0'	7"	2.0'
	12"	2.0'	3.0'	11"	2.0'
	16"	2.0'	4.0'	15"	3.0'
	20"	3.0'	5.0'	19"	3.0'
	24"	4.0'	6.0'	22"	4.0'
45°	6"	1.5'	2.0'	7"	1.5'
	8"	2.0'	3.0'	7"	2.0'
	12"	2.0'	4.0'	11"	3.0'
	16"	3.0'	5.0'	15"	4.0'
	20"	4.0'	6.0'	19"	5.0'
	24"	5.0'	8.0'	22"	6.0'
90°	6"	1.5'	2.5'	7"	2.0'
	8"	2.0'	3.0'	7"	3.0'
	12"	4.0'	6.0'	11"	4.0'
	16"	4.0'	7.0'	15"	5.0'
	20"	8.0'	8.0'	19"	7.0'
	24"	6.0'	10.0'	22"	8.0'
TEES AND PLUGS	6"	1.5'	2.0'	7"	2.0'
	8"	2.0'	3.0'	7"	2.0'
	12"	2.0'	4.0'	11"	4.0'
	16"	3.0'	5.0'	15"	5.0'
	20"	4.0'	7.0'	19"	6.0'
	24"	5.0'	8.0'	22"	7.0'

NOTES:

1. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS.
2. THRUST BLOCK SHALL BE POURED AGAINST UNDISTURBED SOIL.
3. BOLTS/NUTS SHALL BE PROTECTED FROM CONCRETE COVERAGE.

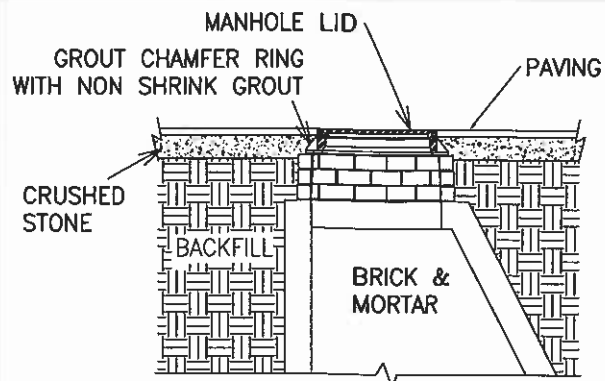
CLAYTON COUNTY WATER AUTHORITY

DATE:	16 MAY 2013	DETAIL TITLE:
SCALE:	N.T.S.	THRUST BLOCK DIMENSIONS
DRAWN BY:	SRD	



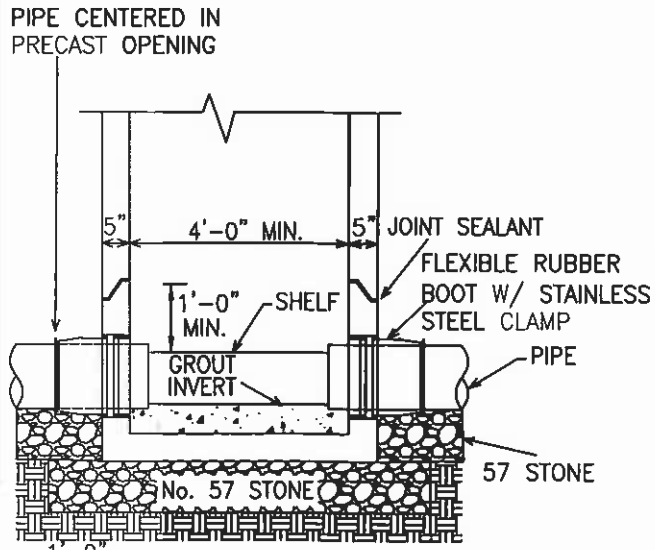
- NOTES:**
1. SHELF AND INVERT SHALL BE TROWEL FINISHED.
  2. WHEN BRICK IS USED AS A FILLER, PROVIDE MINIMUM 1/2 INCH GROUT OVER BRICK.
  3. LINE MANHOLE IN ACCORDANCE WITH DIVISION III, SECTION 9 OF THE SPECIFICATIONS.

**MANHOLE SECTION**

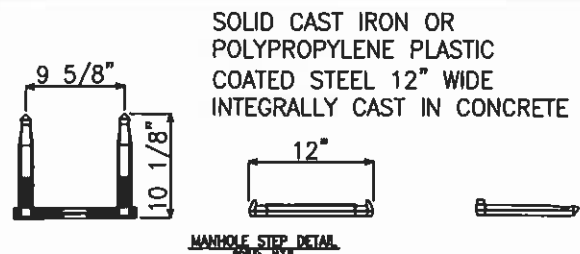


- NOTES:**
1. BRICKS SHALL BE STACKED NO MORE THAN FIVE COARSE.
  2. BRICKS SHALL BE BEDDED AND JOINTED IN MORTAR PER CCWA SPECIFICATIONS.
  3. CONTRACTOR SHALL APPLY A MINIMUM 1/2" THICK MORTAR COATING (SMOOTH FINISH) TO INTERIOR FACE OF BRICK.

**TYPICAL MANHOLE IN PAVEMENT DETAIL**



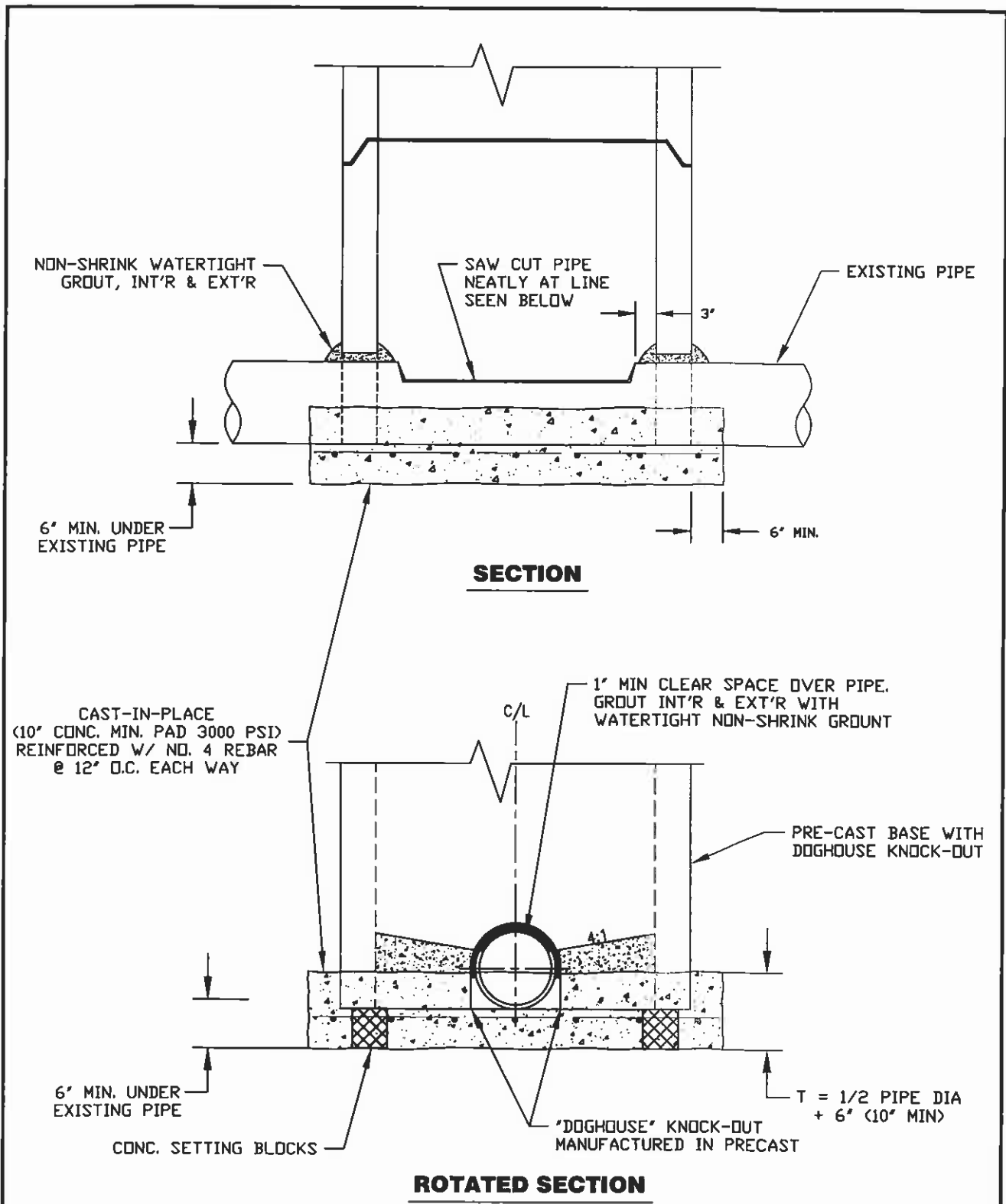
**MANHOLE SECTION**



**MANHOLE STEP DETAIL**

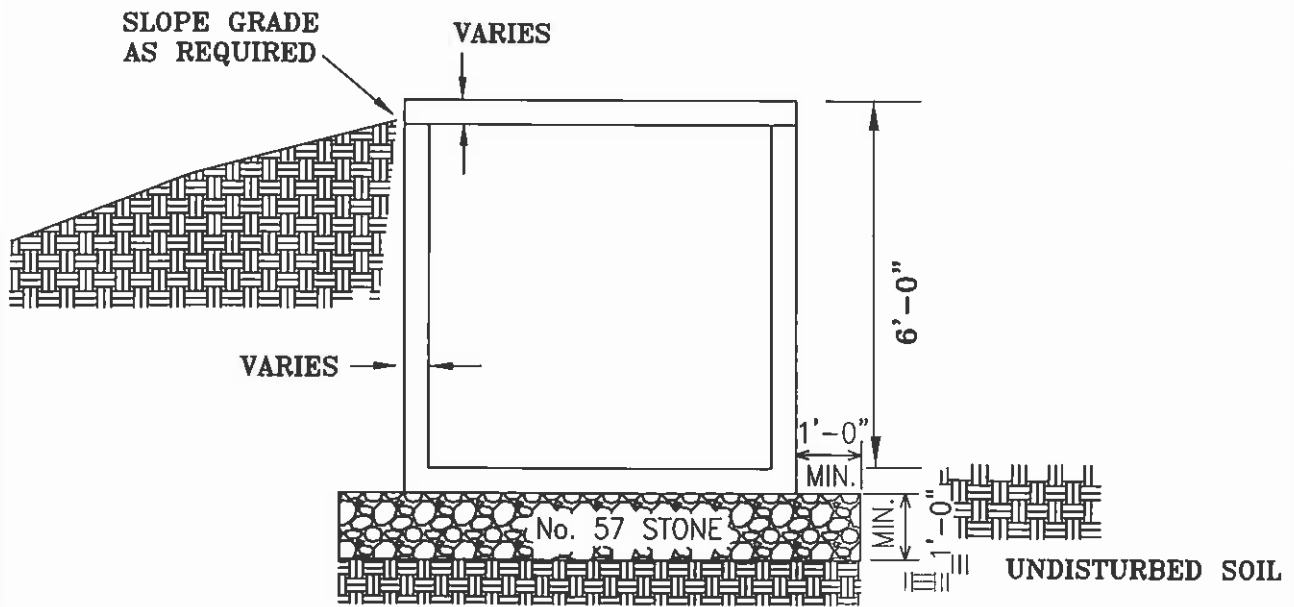
**CLAYTON COUNTY WATER AUTHORITY**

DATE:	16 MAY 2013	DETAIL TITLE:
SCALE:	N.T.S.	<b>MANHOLE SECTIONS</b>
DRAWN BY:	SRD	



CLAYTON COUNTY WATER AUTHORITY

DATE:	16 MAY 2013	DETAIL TITLE:
SCALE:	N.T.S.	DOG HOUSE MANHOLE
DRAWN BY:	WWB	



CLAYTON COUNTY WATER AUTHORITY

DATE:	16 MAY 2013	DETAIL TITLE:
SCALE:	N.T.S.	PRECAST BOX / VAULT
DRAWN BY:	WWB	

# **Addendum(s)**