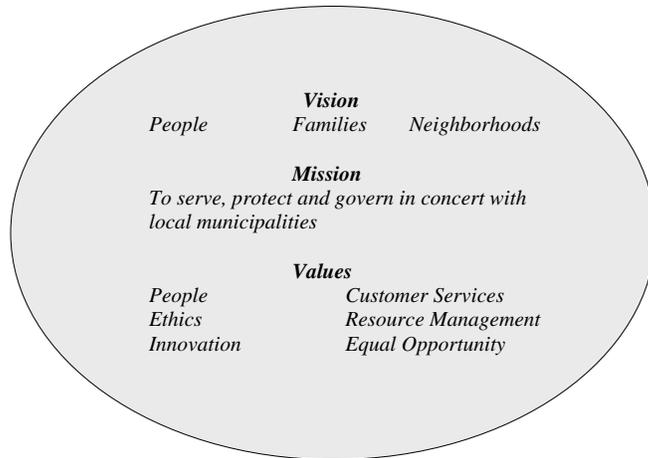




# FULTON COUNTY



## PURCHASING DEPARTMENT

INVITATION TO BID NO. 05ITBR47478YC

## WATER METERS

### PUBLIC WORKS DEPARTMENT

**BID DUE TIME AND DATE:** 11:00 A.M. January 25, 2006  
**PURCHASING CONTACT:** Malcolm Tyson at (404) 730-5811  
**E-MAIL:** [Malcolm.tyson@co.fulton.ga.us](mailto:Malcolm.tyson@co.fulton.ga.us)

**LOCATION:** FULTON COUNTY PURCHASING DEPARTMENT  
130 PEACHTREE STREET, S.W., SUITE 1168  
ATLANTA, GA 30303

## Table of Contents

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### **SECTION 1 Invitation to Bid**

- 1.0 Purpose
- 1.1 Background
- 1.2 Bid Document
- 1.3 Term of Contract
- 1.4 No Contact Provision
- 1.5 Bid Contact
- 1.6 Bid Due Date
- 1.7 Delivery Requirements
- 1.8 Basis of Award

### **SECTION 2 Instructions to Bidders**

- 2.0 Bid General Requirements
- 2.1 Definitions
- 2.2 Clarification and Interpretations
- 2.3 Right to Reject Bids
- 2.4 Disqualification of Bidders
- 2.5 Applicable Laws
- 2.6 Examination of Contract Documents
- 2.7 Termination
- 2.8 Indemnification and Hold Harmless Agreement
- 2.9 Irrevocable Offer

### **SECTION 3 Purchasing Forms & Instructions**

- 3.1 Introduction
- 3.2 Procurement Affidavit Forms Description
  - 3.2.1 Certification Regarding Debarment
  - 3.2.2 Non-Collusion Affidavit
  - 3.2.3 Certificate of Acceptance of Invitation to Bid Requirements

### **SECTION 4 Contract Compliance Requirements**

- 4.1 Non-Discrimination in Contracting and Procurements
- 4.2 Required Forms and EBO Plan
  - Exhibit A – Promise of Non-Discrimination
  - Exhibit B – Employment Report
  - Exhibit C – Schedule of Intended Subcontractor Utilization
  - Exhibit D – Letter of Intent to Perform As a Subcontractor or Provide Materials or Services
  - Exhibit E - Declaration Regarding Subcontracting Practices
  - Exhibit F - Joint Venture Disclosure Affidavit
  - Exhibit G - Prime Contractor/Subcontractor Utilization Report

### **SECTION 5 Water Meters**

### **SECTION 6 Bid Price Sheet**

## INVITATION TO BID

### WATER METERS

#### SECTION 1

##### 1.0 **Purpose:**

Fulton County is soliciting bids from qualified vendors to provide Water Meters to the Public Works Department during a twelve (12) month period.

- 1.1 **Background:** Fulton County has installed approximately 20,000 Sensus and Neptune water meters through specification standards. It is in the best interest of the County to continue the water meter standards to replace approximately 7,000 water meters per year.

##### 1.2 **Bid Document**

This document and supporting documents can be downloaded at the Fulton County Website, <http://www.co.fulton.ga.us/> under “Bid Opportunities”.

##### 1.3 **Term of Contract:**

Any award made as a result of this bid shall be for twelve (12) months from the date of award by the Board of Commissioners. The County reserves the right for four (4) additional twelve (12) month renewal periods pending approval by the Board of Commissioners, vendor satisfactory performance and the availability of departmental appropriated funding. Renewal year price increase(s) in this contract, if exercised by Fulton County, shall be limited to the bid prices offered under this solicitation and subsequent contract unless otherwise specifically accepted by Fulton County, but in no instance shall exceed the consumer price index. The term “consumer price index” shall mean the consumer price index published by the Bureau of Labor statistics of the U.S. Department of Labor with particular reference to the average shown on such index for all terms.

##### 1.4 **No Contact Provision**

It is the policy of Fulton County that the evaluation and award process for County contracts shall be free from both actual and perceived impropriety, and that contacts between potential vendors and County officials, elected officials and staff regarding pending awards of County contracts shall be prohibited.

- A. No person, firm, or business entity, however situated or composed, obtaining a copy of or responding to this solicitation, shall initiate or continue any verbal or written communication regarding this solicitation

with any County officer, elected official, employee, or designated County representative, between the date of the issuance of this solicitation and the date of the County Manager's recommendation to the Board of Commissioners for award of the subject contract, except as may otherwise be specifically authorized and permitted by the terms and conditions of this solicitation.

- B. All verbal and written communications initiated by such person, firm, or entity regarding this solicitation, if same are authorized and permitted by the terms and conditions of this solicitation, shall be directed to the Purchasing Agent.
- C. Any violation of this prohibition of the initiation or continuation of verbal or written communications with County officers, elected officials, employees, or designated County representatives shall result in a written finding by the Purchasing Agent that the submitted Bid or proposal of the person, firm, or entity in violation is "non-responsive", and same shall not be considered for award.

## 1.5 **Bid Contact**

Information regarding the bid, either procedural or technical, may be obtained by contacting Malcolm Tyson, Assistant Purchasing Agent, [malcolm.tyson@co.fulton.ga.us](mailto:malcolm.tyson@co.fulton.ga.us), at (404) 730-5811, Fulton County Department of Purchasing. Information regarding the bid requirements may be obtained by using the following procedure. Inquiries must be submitted in writing to;

**Fulton County Purchasing Department  
Attn: Malcolm Tyson  
130 Peachtree Street, S.W. Suite 1168  
Atlanta, GA 30303  
Phone: (404) 730-5811  
Fax: (404) 335-5808  
Reference Bid # 05ITBR47478YC**

## 1.6 **Bid Due Date**

Bids will be opened in public and read aloud on **January 25, 2006 at 11:00 A.M., local time** in the Fulton County Purchasing Department's bid room, located at 130 Peachtree Street, S.W., Atlanta, Georgia 30303. Bids received after 11:00 A.M., will be considered late and will be returned to the bidder unopened. Bidders may, at their discretion, attend the bid opening. **Bidders are to submit one (1) originally signed copy and two (2) photographic copies.**

The bid due date can be changed only by addendum. Bids shall clearly indicate the legal name, address, and telephone number of the bidder (company, firm, partnership, individual). Bids shall be signed above the typed or printed name

and title of the signer. The signer shall have the authority to bind the bidder to the submitted bid.

### **1.7 Delivery Requirements**

Any bid received after the above stipulated due date and time will not be considered and will be rejected and returned. It shall be the sole responsibility of the bidder to have his/her bid delivered to the Fulton County Department of Purchasing for receipt on or before the above stipulated due date and time. If a bid is sent by U.S. Mail, the bidder shall be responsible for its timely delivery to the Department of Purchasing.

### **1.8 Basis of Award**

The Contract will be awarded to the lowest responsive, responsible bidder(s), if awarded.

All Bids must be made on the Bid forms contained herein. The Bid shall be enclosed in a sealed envelope, addressed to Department of Purchasing, Fulton County Public Safety Building, 130 Peachtree Street, S.W., Suite 1168 Atlanta, Georgia 30303 and labeled "Bid for **ITB 05ITBR4747YC**".

## SECTION 2

### FULTON COUNTY PURCHASING DEPARTMENT

#### BID GENERAL REQUIREMENTS

##### WATER METERS

**2.0** The following information pertains to the submission of a Bid to Fulton County, and contains instructions on how Bids must be presented in order to be considered. Listed below are the requirements for all Bidders interested in doing business with Fulton County.

1. The Bid sheets included in this Invitation to Bid ("Bid") must be fully completed and returned with the Bid unless otherwise specified in writing by the Purchasing Department. Type or neatly print the date, company name, and the full legal name and title of the person(s) signing the Bid in the place provided at the bottom of each Bid sheet. Any additional sheets submitted must contain the same signature and Bidder information.
2. Original signature(s) must appear on each page of the Bid document. All signatures must be executed by person(s) having contracting authority for the Bidder
3. Absolutely no fax Bids or reproduction Bids will be accepted, except that photocopies may be submitted in addition to the original when multiple copies of the Bid are specifically requested in the solicitation
4. The envelope in which the Bid response is submitted must be sealed and clearly labeled with the bid number, project title, due date and time, and the name of the company or individual submitting the proposal. Bids must be received by the opening date and time shown on this Bid in order to be considered. The Purchasing Agent has obligation to consider Bids which are not in properly marked envelopes. Contract Compliance submittals shall be submitted in a separated sealed envelope or package.
5. The original and the required number of copies of the Bid must be returned to:

Fulton County Purchasing Agent  
Fulton County Purchasing Department  
130 Peachtree Street, S.W., Suite 1168  
Atlanta, Georgia 30303

Any inquiries, questions, clarifications or suggestions regarding this solicitation should be submitted in writing to the Purchasing Contact

Person. Contact with any other County personnel in regard to a current solicitation is strictly prohibited in accordance with Fulton County "No Contact" Show information and prices in the format requested. Prices are to be quoted F.O.B. Destination, and must include all costs chargeable to the Contractor executing the Contract, including taxes. Unless otherwise provided in the Contract, Fulton County shall have no liability for any cost not included in the price. The Contractor shall provide Fulton County the benefit through a reduction in price of any decrease in the Contractor's costs by reason of any tax exemption based upon Fulton County's status as a tax-exempt entity.

6. All prices Bid must be audited by the Bidder to ensure correctness before the Bid is submitted. The Bidder is solely responsible for the accuracy of information placed on a Bid sheet, including prices. Clerical or mathematical error is insufficient to void a successful Bid but a Bidder may withdraw a sealed Bid prior to opening without a penalty.
7. All prices must be submitted in the format requested and less all trade discounts. When multiple items are being Bid, Bidder must show both the unit price and the total extended price for each item. When applicable, the Bidder must include an additional lump sum Bid for groups or items. In the event a Bidder is offering an additional discount on groups of items, Bidder must indicate the total lump sum Bid for the particular group of items before any extra discount, the amount of extra discount, and the net total for the particular group. In the event of an extension error, unit pricing shall prevail.
8. By submitting a signed Bid, Bidder agrees to accept an award made as a result of that Bid under the terms and conditions spelled out in the Bid documents. In the event of a conflict between the different Bid documents, the County's cover Contract (if used) shall have precedence, followed in order by the Invitation to Bid Purchase Order, Bid, Contractor's Warranty Agreement, Maintenance Agreement, and/or other Contractor provided agreements.
9. A Bidder may submit only one (1) Bid response for each specific Bid solicitation unless otherwise authorized in the specifications.
10. All prices submitted by the Bidder to Fulton County must be guaranteed by the authorized person(s) against any price increase for the time period designated in the Bid specifications, and Fulton County must be given the benefit of any price decrease occurring during such designated time period.

11. All Bidders must specify in the Bid response the earliest actual delivery date for each item unless otherwise specified in writing by Fulton County. The delivery date may be a factor in deciding the Bidder's capability to perform.
12. A successful Bidder's delivery ticket(s) and invoice(s) must list each item separately and must show Fulton County's purchase order number as well as the proper department and address to which delivery was made, as listed on the purchase order or in the Bidder's contract with Fulton County.
13. Unless clearly shown as "no substitute" or words to that effect, any items in this invitation to Bid which have been identified, described or referenced by a brand name or trade name are for reference only. Such identification is intended to be descriptive but not restrictive, and is to indicate the general quality and characteristics of products that may be offered. Each item Bid must be individually identified as to whether it is a specified item or an equivalent item by typing or printing after the item(s): The brand name; model or manufacturer's number, or identification regularly used in the trade. Deviations from the specifications must be clearly and fully listed on the Bid sheet, including photographs or cuts, specifications, and dimensions of the proposed "alternate". Fulton County is the sole judge of "exact Equivalent: or "alternate". The factors to be considered are function, design, materials, construction, workmanship, workmanship finishes, operating features, overall quality, local services facilities, warranty terms and service and other relevant features of item(s) Bid.
14. For all Bids, Fulton County reserves the right to request representative samples. If requested, samples must be delivered at the Bidder's cost within three (3) business days. Samples are submitted at the risk of the Bidder. Samples must be plainly tagged with Fulton County's Bid number, item name, manufacturer, and the name of the Bidder.
15. Item(s) Bid must be complete and ready to wear.
16. All successful Bidders must assume full responsibility for all item(s) damaged prior to F.O.B. Destination delivery and agree to hold harmless Fulton County of all responsibility for prosecuting damage claims.
17. All successful Bidders must assume full responsibility for replacement of all defective or damaged goods within forty-eight (48) hours of notice by Fulton County of such defect or damage.

18. All successful Bidders must assume full responsibility for providing or ensuring warranty service on any and all items including goods, materials, or equipment provided to the County with warranty coverage. If a successful Bidder is not the manufacturer, all manufacturers' warranties must be passed through to Fulton County. The Bidder and not Fulton County is responsible for contacting the manufacturer of the warranty service provided during the warranty period and supervising the completion of the warranty service to the satisfaction of Fulton County.
19. As a successful Bidder providing any uniforms which requires fitting the Bidder shall be solely responsible for such service being performed by a manufacturer's authorized or approved servicer an experienced worker, utilizing workmanship of the highest caliber. The Bidder must verify all measurements at the site, shall be responsible for their correctness, and shall be responsible for the availability of replacement garments when specified in writing by Fulton County in the specifications, purchase order, or other contract.
20. A successful Bidder is solely responsible for disposing of all wrappings, crating, and other disposable material upon deliver of item(s).
21. All Bidders are required to be authorized distributors or regularly engaged in the sale or distribution of the type of goods, materials, equipment or services for which the Bidder is submitting a Bid response in addition, all Bidders are required to provide Fulton County with three (3) written references documenting the successful completion of Bids or contracts for the types of items including goods, materials, equipment, or services for which the Bidder is submitting a Bid response. In instances where a Bidder has never supplied such goods, material, equipment, or services before, the Bidder must submit with the Bid response a statement and supporting documentation demonstrating such expertise, knowledge, or experience to establish the Bidder as a responsible Bidder, capable of meeting the Bid requirements should an award be made. No exceptions to this provision will be made unless authorized in the Bid specifications.
22. Bidders may be required to furnish evidence that they maintain permanent places of business of a type and nature compatible with their Bid proposal, and are in all respects competent and eligible vendors to fulfill the terms of the specifications. Fulton County may make such investigations as it deems necessary to determine the ability of the Bidder to perform such work, and reserves the right to reject any Bidder if evidence fails to indicate that the Bidder is qualified to carry out the obligation of the Contract and to complete the work satisfactorily.
23. All Bidders must comply with all Fulton County Purchasing laws, policies, and procedures, non-discrimination in contracting and procurement ordinances, and relevant state and federal laws including but not limited to

compliance with EEOC hiring guidelines and requirements under the Americans with Disabilities Act. Successful Bidder must obtain all permits, licenses, and inspections as required and furnish all labor, materials, insurance, equipment, tools, supervision, and incidentals necessary to accomplish the work in these specifications.

24. If a successful Bidder is unable or unwilling to enter into a Contract with Fulton County subsequent to being granted an award, or who fails to perform in accordance with the Bid specifications the Bidder will be subject to damages and all other relief allowed by law.
25. Successful Bidders contract directly with Fulton County and are the party or parties obligated to perform. Contracts may not be assigned and any failure to perform the Contract in accordance with the specifications will constitute a breach of Contract and may result in a Bidder being found to be “non-responsive” in the future.
26. In case of default by the successful Bidder, Fulton County may procure the articles for services from another source and hold the successful Bidder responsible for any resulting excess cost.
27. The County may award any Bid in whole or in part to one or more vendors or reject all Bids and/or waive any technicalities if it is in the best interests of the County to do so. In the event that all Bids are not rejected, Bids for items including goods, materials, equipment, and services will be awarded to the lowest “responsible” Bidder(s) as determined by Fulton County. Submitting the lowest Bid, as published at the Bid opening, does not constitute an award or the mutual expectation of an award of a Contract and purchase order. For purposes of this notice and the attached Bid sheets, a purchase order is a Contract to provide items including goods, materials, equipment, and services and is intended to have the full force and effect of a Contract. A breach of the terms and conditions of a purchase order constitutes a breach of Contract.
28. Bids for projects that are solicited pursuant to the Georgia Local Government Public Works Construction Law ( O.C.G.A 36-91-1 et seq) may withdrawn as follows:  
  
Competitive sealed Bids (Bid) may not be revoked or withdrawn until 60 days after the time set by the governmental entity for opening of Bids. At the end of this time period the Bid will cease to be valid, unless the Bidder provides written notice to the County prior to the scheduled expiration date that the Bid will be extended for a time period specified by the County.
29. In the evaluation of the Bids, any award will be subject to the Bid being:

- A. Compliant to the specification – meets form, fit, and function requirements stated or implied in the specification.
  - B. Lowest cost to the County over projected useful life.
  - C. Administratively Compliant – Including all required bonds, insurance, established quality of work and general reputation, financial responsibility, relevant experience, and related criteria.
30. All bids and Bids submitted to Fulton County are subject to the Georgia “Open Records Act”, Official Code of Georgia, Annotated (O.C.G.A.) §50-18-70 et seq.
31. All bids and Bids submitted to Fulton County involving Utility Contracting are subject to the Georgia law governing licensing of Utility Contractors, O.C.G.A. §43-14-8.2(h). The Utility Contractor License number of the person who will perform the utility work shall be written on the face of the Bid envelope.
32. The apparent silence of this specification, and any supplement thereto, as to details, of the omission from it of a detailed description concerning any point, will be regarded as meaning only the best commercial practices are to prevail. Only materials of the highest quality, correct type, size, and design are to be used. All interpretations of this specification will be made upon the basis of this statement, with Fulton County interpretation to prevail.
33. It is the policy of Fulton County that the evaluation and award process for County contracts shall be free from both actual and perceived impropriety, and that contacts between potential vendors and County officials, elected officials and staff regarding pending awards of County contracts shall be prohibited.
- A. No person, firm, or business entity, however situated or composed, obtaining a copy of or responding to this solicitation, shall initiate or continue any verbal or written communication regarding this solicitation with any County officer, elected official, employee, or designated County representative, between the date of the issuance of this solicitation and the date of the County Manager’s recommendation to the Board of Commissioners for award of the subject contract, except as may otherwise be specifically authorized and permitted by the terms and conditions of this solicitation.
  - B. All verbal and written communications initiated by such person, firm, or entity regarding this solicitation, if same are authorized and permitted by the terms and conditions of this solicitation, shall be directed to the Purchasing Agent.

- C. Any violation of this prohibition of the initiation or continuation of verbal or written communications with County officers, elected officials, employees, or designated County representatives shall result in a written finding by the Purchasing Agent that the submitted Bid or proposal of the person, firm, or entity in violation is “non-responsive”, and same shall not be considered for award.
- 34. Any Bidder intending to respond to this solicitation as a Joint Venture must submit an executed Joint Venture Agreement with this Bid. This agreement must designate those persons or entities authorized to execute documents or otherwise bind the Joint Venture in all transactions with Fulton County, or are accompanied by a document, binding upon the Joint Venture and its constituent members, making such designation. Bids from Joint Ventures that do not include these documents will be rejected as being “non-responsive”.
  - 35. Any Bidder intending to respond to this solicitation must complete all of the Procurement Affidavit Forms provided in this solicitation. Bids that do not include these completed documents will be rejected as being “non-responsive”.

## 2.1 Definition of Purchasing Terms

**Addenda** - the plural of addendum.

**Addendum** - a written or graphic change to the contract documents issued prior to bid opening which becomes a part of the specifications for the project.

**Advertisement** - public notice inviting bids shall be published for two (2) consecutive weeks. All projects shall be published on the Fulton County's website @ [www.co.fulton.ga.us](http://www.co.fulton.ga.us) , under "Bid Opportunities".

**Amendment** – a change, addition, alteration, correction or revision to a bid or proposal or contract document.

**Award** - approval by the Board of Commissioners, to begin the contracting process with the lowest most responsive and responsible bidder.

**Bid** - the formal process allowing prospective vendors to compete for goods and services sought by the County.

**Bid acceptance** - the acceptance of bids delivered to the Purchasing Agent at the time, place, and under the conditions contained in the invitation for bids and as further stipulated in the specifications document.

**Bid opening** - the public opening of bids received and accepted and the reading aloud of the name of each bidder and the amount of bid in the presence of one (1) or more witnesses at the time and place designated in the invitation to bid. For RFP openings only the name of the proponents are read aloud.

**Brand name or equal specification** – means a specification limited to one or more items by manufacturer's names or catalogue numbers to describe the standard of quality, performance and other salient characteristics needed to meet County requirements and which provides for the submission of equivalent products from any manufacturer.

**Brand name specifications** – means a specification limited to one or more items by manufacturer's names or catalogue numbers.

**Collusion** – a secret agreement, whether expressed or implied, to commit a fraudulent, deceitful, unlawful, or wrongful act.

**Collusive bidding** – a violation of antitrust statutes that consists of a response to a solicitation by two or more persons who have secretly agreed to circumvent laws and rules regarding independent and competitive bidding.

**County** - “County” shall mean the Fulton , Georgia, a political subdivision of the State of Georgia, and shall include all agencies, establishments or officials of the government of the .

**Contractor** - any person or entity having a contract with the County.

**Days** - “Days” shall mean calendar days.

**Debarment** – the exclusion of a person or company from participating in a procurement activity for an extended period of time, as specified by law, because of previous illegal or irresponsible action.

**Designee** - an authorized representative of a person holding superior position of responsibility.

**Invitation to bid (ITB)** - all documents, whether attached or incorporated by reference, utilized for soliciting sealed bids.

**Inspection** - an authorized representative of the County, or of the County’s architect/engineer, assigned to make all necessary inspections, test, and reports of the work performed or being performed.

**May** - denotes permissive.

**Offer** - a proposal by an offeror submitted when procurement is made by a source selection method other than competitive sealed bidding.

**Offeror** – a person making an offer.

**Procurement** - buying, purchasing, renting, leasing or otherwise acquiring any supplies, services or construction. Also includes all functions that pertain to the obtaining of any supply, service or construction, including a description of requirements, selection and solicitation of sources, preparation and award of contracts, and all phases of contract administration.

**Purchasing Agent** - the Director of the Fulton County Department of Purchasing; the principal purchasing official for the County.

**Responsible bidder or responsible offeror** – means a person or entity that has the capability in all respects to perform fully and reliably the contract requirements.

**Scope of work** - means the work that is required by the contract documents.

**Shall** - denotes imperative.

**Solicitation** - an invitation for bid, a request for proposal, a request for quotation, or any other document issued by the County for the purpose of soliciting bids or bids to perform a County contract.

**Specifications** – means any description of the physical or functional characteristics or of the nature of a supply, service or construction item. It may include a description of any requirement for inspecting, testing or preparing a supply, service or construction item for delivery.

## **2.2 Clarification and Interpretations**

Bidders may submit requests for clarifications or interpretations regarding this ITB. Bidders must prepare such requests in writing for the County's consideration as set forth in this section of this ITB. While the County has not placed an initial limitation on the number of requests which can be submitted, Bidders are cautioned that if Bidders do not request meaningful clarifications or interpretations in an organized manner (e.g., limited frequency of requests), the County will set restrictions on the frequency and number of requests permitted. The County will not respond to requests received after **January 18, 2006 at 5:00 PM**, local prevailing time. Bidders are advised that this section places no obligation on the part of the County to respond to any or all requests for clarification or interpretation, and that the County's failure to respond to any such request will not relieve the bidder of any obligations or conditions required by this ITB.

Request for clarification or interpretation regarding this ITB shall only be submitted in writing (letter, fax or email) to:

Malcolm Tyson, Assistant Purchasing Agent  
Department of Purchasing  
Fulton County Public Safety Building  
130 Peachtree Street, S.W., 1168  
Atlanta, GA 30303  
Fax: (404) 355-5808  
[malcolm.tyson@co.fulton.ga.us](mailto:malcolm.tyson@co.fulton.ga.us)

All responses to written requests for clarification, interpretation, or additional information will be distributed as addenda to this ITB to all persons registered with the County to have received a copy of the ITB.

No oral interpretation, instruction, or information concerning this ITB given by any employee or agent of the County shall be binding on the County. Bidders who submit a bid in reliance on any such oral information risk having their response to this ITB deemed non-responsive by the County. Only written responses issued by addendum to this ITB should be considered by the bidders.

During the period provided for the preparation of bids, the County may issue addenda to this ITB. These addenda will be numbered consecutively and will be

distributed to those who have been issued a copy of this ITB. Additionally, the addenda will be posted on the Fulton County website, [www.co.fulton.ga.us](http://www.co.fulton.ga.us). these addenda will be issued by, or on behalf of, the County and will constitute a part of this ITB. Each bidder is required to acknowledge by submitting an executed acknowledgment form included with this bid. This acknowledgment shall include all addenda distributed prior to the bid submission date. All responses to this ITB shall be prepared with full consideration of the addenda issued prior to the bid submission date.

### **2.3 Right to Reject Bids**

The County reserves the right to reject any or all bids and to waive informalities. No bids will be received after the time set for opening bids. Any unauthorized conditions, limitations or provisions attached to the Bid, except as provided herein, will render it informal and may cause its rejection. Unbalanced bids will be subject to rejection. Any bidder may withdraw his/her bid, either personally or by telegraphic or written request, at any time prior to the scheduled closing time for receipt of bids. Telegraphic or written requests for withdrawal must be in the possession of the County prior to the closing time for receipt of bids.

### **2.4 Disqualification of Bidders**

The submission of more than one (1) bid to the County as the primary Bidder or member of a joint venture for the same bid by an individual firm, partnership or corporation under the same or different names may be considered as sufficient for disqualification of a bidder and the rejection of the bid.

### **2.5 Applicable Laws**

All applicable laws and regulations of the State of Georgia and ordinances and regulations of Fulton County shall apply. Protestors shall seek resolution of their complaints in the manner provided in the Fulton County Code of Laws §2-324, which is incorporated by reference herein.

### **2.6 Examination of Contract Documents**

Prospective bidders shall examine the contract documents and before submitting a bid, shall make a written request to the County for an interpretation or correction of any ambiguity, in consistency or error therein which could be discovered by a bidder. At the bid opening each bidder shall be presumed to have read and be familiar with the contract documents.

## **2.7 Termination**

The County may terminate the contract resulting from this solicitation at any time the vendor fails to carry out the contract provisions, if in the opinion of the County, the performance of the contract is unreasonably delayed, or the vendor is in direct violation of the contract conditions. The County shall provide the vendor with notice of any conditions which violate or endanger the performance of the contract and, if after such notice the contractor fails to remedy such conditions within thirty (30) days, to the satisfaction of the County, the County may exercise their option in writing to terminate the Contract without further notice to the Contractor and order the Contractor to stop work immediately and vacate the premises. Vendor agrees by its bid submission that the County's decision is final and valid.

## **2.8 Indemnification and Hold Harmless Agreement**

Contractor/Vendor hereby agrees to release, indemnify, defend and hold harmless the County, its Commissioners, officers, employees, subcontractors, successors, assigns and agents, from and against any and all losses (including death), claims, damages, liabilities, costs and expenses (including but not limited to all actions, proceedings, or investigations in respect thereof and any costs of judgments, settlements, court costs, attorney's fees or expenses, regardless of the outcome of any such action, proceeding, or investigation), caused by, relating to, based upon or arising out of any act or omission by contractor, its directors, officers, employees, subcontractors, successors, assigns or agents, or otherwise in connection with its acceptance, or the performance, or nonperformance, of its obligations under this agreements.

## **2.9 Irrevocable Offer**

No bid may be modified, withdrawn, or cancelled by the bidder for sixty (60) days following the date and time designated for receipt of bids, and each bidder so agrees in submitting its bid. All adjustment factors shall remain valid during this time period unless noted otherwise.

Prior to the date and time designated for receipt of bids, a bid may be withdrawn on written or facsimile (fax) request, provided that written confirmation of any fax withdrawal over the signature of the bidder must have been mailed and postmarked on or before the date and time set for receipt of bids. A withdrawn bid may be resubmitted up to the date and time designated for receipt of bids, provided that it is then fully in conformance with these Instructions to Bidders.

## SECTION 3

### PURCHASING FORMS & INSTRUCTIONS

#### 3.1 Introduction

To be deemed responsive to this ITB, Bidders must provide the information requested and complete in detail all Bid Forms. The appropriate individual(s) authorized to commit the Bidder must sign the Bid Forms. Bidders should reproduce each Bid Form, as required, and complete the appropriate portions of the forms provided in this section.

#### Procurement Affidavits

Procurement Affidavit Form 1	Certification Regarding Debarment
Procurement Affidavit Form 2	Form A: Non-Collusion Affidavit (Prime) Form B: Sub-Contractor Non-Collusion Affidavit
Procurement Affidavit Form 3	Certificate of Acceptance of Invitation to Bid Requirements

## **3.2 Procurement Affidavit Forms Description**

The following paragraphs present an overview of each Procurement Affidavit Form required.

### **3.2.1 Certification Regarding Debarment**

Bidder shall complete and submit Form 1, which certifies that neither it nor its subcontractors are presently debarred, suspended, proposed for debarment, declared ineligible, or otherwise excluded from doing business with any government agency.

### **3.2.2 Non-Collusion Affidavit**

The Bidder shall include a copy of Proposal Form 2A, executed by an authorized officer of the corporation. Bids developed by a joint venture shall be similarly executed by all joint venture participants. Additionally, all sub-contractors shall execute a copy of Bid Form 2B which shall also be submitted with the bid.

### **3.2.3 Certificate of Acceptance of Invitation to Bid Requirements**

Bidder shall complete and submit Form 3, which certifies that Bidder has read the solicitation including all addenda, exhibits, attachments and appendices.

## **CERTIFICATION REGARDING DEBARMENT**

- (1) The Offeror certifies that neither it or its subcontractors is presently debarred, suspended, proposed for debarment, declared ineligible, or otherwise excluded from doing business with any government agency. Any such exclusion may cause prohibition of your firm from participating in any procurement by the Fulton County Government.
- (2) If the Offeror is unable to certify to any of the statements in this certification, such Offeror or subcontractor shall attach an explanation to this bid or proposal.

### *INSTRUCTIONS FOR CERTIFICATION*

By signing and submitting this certification, the Offeror is providing the certification set out below:

- (1) The certification in this clause is a material representation of fact upon which reliance will be placed. If it is later determined that the prospective vendor knowingly rendered a false certification, the Purchasing Agent may pursue all available remedies, including suspension and/or debarment, for withdrawal of award or termination of a contract.
- (2) The prospective Offeror shall provide immediate written notice to the Purchasing Agent if at anytime the Offeror learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.
- (3) Offeror shall be under a continuing duty to immediately inform the Purchasing Agent in writing of any changes, if as a result of such changes, the Offeror certification regarding debarment is affected.

## **DEBARMENT ORDINANCE**

The following SECTION 2-322 of Fulton County Code of Laws establishes the procedure for the debarment of contractors.

- (a) *Authority to suspend.*

After reasonable notice to the entity involved and reasonable opportunity for that entity to be heard, the Purchasing Agent, after consultation with user department, the County Manager and the County Attorney shall have the authority to suspend an entity for cause from consideration for award of county contracts. As used in this SECTION, the term entity means any business entity, individual, firm, contractor, subcontractor or business corporation, partnership, limited liability corporation, firm, contractor, subcontractor or business structured; provided, further, that any such entity shall also

be subject to suspension under this SECTION if any of its constituents, members, subcontractors at any tier of such entity's and the entity, or any constituent or member, knew or should have known of the commission of the act. The suspension shall be for a period not to exceed three (3) years unless cause is based on a felony conviction for an offense related or associated with fraudulent contracting or misappropriation of funds wherein the suspension shall not exceed seven (7) years.

(b) *Causes for Suspension.* The causes for suspension include:

- (1) Conviction for commission of a criminal offense as an incident to obtain or attempting to obtain a public or private contract or subcontract, or in performance of such contract or subcontract;
- (2) Conviction of state or federal statutes of embezzlement, theft, forgery, bribery, falsification or destruction of records, receiving stolen property or other offense indicating a lack of business integrity or business honesty which currently, seriously and directly affects responsibility as a county contractor.
- (3) Conviction of state or federal anti-trust statutes arising out of the solicitation and submission of bids and bids;
- (4) Violation of contract provisions, as set forth below, of a character which is regarded by the Purchasing Agent to be so serious as to justify suspension action:
  - a. Failure to perform in accordance with the specifications within a time limit provided in a county contract;
  - b. A recent record of failure to perform or unsatisfactory performance in accordance with the terms of one or more contracts; provided, that failure to perform or unsatisfactory performance caused by acts beyond the control of the contractor shall not be considered to be a basis for suspension;
  - c. Material representation of the composition of the ownership or workforce or business entity certified to the county as a minority business enterprise; or
  - d. Falsification of any documents.
- (5) For violation of the ethical standards set forth in Fulton County Code Chapter 9, Code of Ethics.
- (6) Knowing misrepresentation to the county, of the use which a majority owned contractor intends to make a minority business enterprise (a business entity at least 51 percent of which is owned and controlled by

minority persons, as defined in Fulton County Code Chapter 6, Article B, Minority Business Enterprise Affirmative Action Program and certified as such by the county), as a sub-contractor or a joint venture partner, in performing work under contract with the county.

Failure to fully and truthfully provide the information required, may result in the disqualification of your bid/proposal from consideration or termination of the Contract, once awarded. This document must be completed and included as a part of the bid/proposal package along with other required documents.

Under penalty of perjury, I declare that I have examined this certification and all attachments hereto, if applicable, to the best of my knowledge and belief, and all statements contained hereto are true, correct, and complete.

On this \_\_\_\_\_ day of \_\_\_\_\_, 2006

\_\_\_\_\_  
(Legal Name of Offeror) (Date)

\_\_\_\_\_  
(Signature of Authorized Representative) (Date)

\_\_\_\_\_  
(Title)

**STATE OF GEORGIA**

**COUNTY OF FULTON**

**NON-COLLUSION AFFIDAVIT OF PRIME BIDDER/OFFEROR**

I, \_\_\_\_\_ certify that pursuant to Fulton County Code SECTION 2-320 (11), this bid or proposal is made without prior understanding, agreement or connection with any corporation, firm or person submitting a bid for the same work, labor or service to be done or the supplies, materials or equipment to be furnished and is in all respects fair and without collusion or fraud. I understand collusive bidding is a violation of state and federal law and can result in fines, prison sentences and civil damages awards. I agree to abide by all conditions of this bid or proposal and certify that I am authorized to sign this bid or proposal for the bidder.

Affiant further states that pursuant to O.C.G.A. SECTION 36-91-21 (d) and (e), \_\_\_\_\_ has not, by itself or with others, directly or indirectly, prevented or attempted to prevent competition in such bidding or bids by any means whatsoever. Affiant further states that (s)he has not prevented or endeavored to prevent anyone from making a bid or offer on the project by any means whatever, nor has Affiant caused or induced another to withdraw a bid or offer for the work.

Affiant further states that the said offer of \_\_\_\_\_ is bona fide, and that no one has gone to any supplier and attempted to get such person or company to furnish the materials to the bidder only, or if furnished to any other bidder, that the material shall be at a higher price.

\_\_\_\_\_  
(COMPANY NAME)

\_\_\_\_\_  
(PRESIDENT/VICE PRESIDENT)

Sworn to and subscribed before me this \_\_\_\_\_ day of \_\_\_\_\_, 200\_\_.

\_\_\_\_\_  
(SECRETARY/ASSISTANT SECRETARY)

(Affix corporate seal here, if a corporation)

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

County: \_\_\_\_\_

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

**NOTE:**

**IF THE OFFEROR IS A PARTNERSHIP, ALL OF THE PARTNERS AND ANY OFFICER, AGENT, OR OTHER PERSON WHO MAY HAVE REPRESENTED OR ACTED FOR THEM IN BIDDING FOR OR PROCURING THE CONTRACT SHALL ALSO MAKE THIS OATH.**

**IF THE OFFEROR IS A CORPORATION, ALL OFFICERS, AGENTS, OR OTHER PERSONS WHO MAY HAVE ACTED FOR OR REPRESENTED THE CORPORATION IN BIDDING FOR OR PROCURING THE CONTRACT SHALL MAKE THE OATH.**

STATE OF GEORGIA

COUNTY OF FULTON

**NON-COLLUSION AFFIDAVIT OF SUBCONTRACTOR**

I, \_\_\_\_\_ certify that pursuant to Fulton County Code SECTION 2-320 (11), this bid or proposal is made without prior understanding, agreement or connection with any corporation, firm or person submitting a bid for the same work, labor or service to be done or the supplies, materials or equipment to be furnished and is in all respects fair and without collusion or fraud. I understand collusive bidding is a violation of state and federal law and can result in fines, prison sentences and civil damages awards. I agree to abide by all conditions of this bid or proposal and certify that I am authorized to sign this bid or proposal for the bidder.

Affiant further states that pursuant to O.C.G.A. SECTION 36-91-21 (d) and (e), \_\_\_\_\_ has not, by itself or with others, directly or indirectly, prevented or attempted to prevent competition in such bidding or bids by any means whatsoever. Affiant further states that (s)he has not prevented or endeavored to prevent anyone from making a bid or offer on the project by any means whatever, nor has Affiant caused or induced another to withdraw a bid or offer for the work.

Affiant further states that the said offer of \_\_\_\_\_ is bona fide, and that no one has gone to any supplier and attempted to get such person or company to furnish the materials to the bidder only, or if furnished to any other bidder, that the material shall be at a higher price.

\_\_\_\_\_  
(COMPANY NAME)

\_\_\_\_\_  
(PRESIDENT/VICE PRESIDENT)

Sworn to and subscribed before me this \_\_\_\_\_ day of \_\_\_\_\_, 200\_\_.

\_\_\_\_\_  
(SECRETARY/ASSISTANT SECRETARY)

(Affix corporate seal here, if a corporation)

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

County: \_\_\_\_\_

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

**NOTE:**

**IF THE OFFEROR IS A PARTNERSHIP, ALL OF THE PARTNERS AND ANY OFFICER, AGENT, OR OTHER PERSON WHO MAY HAVE REPRESENTED OR ACTED FOR THEM IN BIDDING FOR OR PROCURING THE CONTRACT SHALL ALSO MAKE THIS OATH.**

**IF THE OFFEROR IS A CORPORATION, ALL OFFICERS, AGENTS, OR OTHER PERSONS WHO MAY HAVE ACTED FOR OR REPRESENTED THE CORPORATION IN BIDDING FOR OR PROCURING THE CONTRACT SHALL MAKE THE OATH.**

**CERTIFICATE OF ACCEPTANCE OF INVITATION TO BID**  
**REQUIREMENTS**

This is to certify that on this day, offeror acknowledges that he/she has read this solicitation document, pages # \_\_\_\_\_ to # \_\_\_\_\_ inclusive, including any addenda # \_\_\_\_\_ to # \_\_\_\_\_ exhibit(s) # \_\_\_\_\_ to # \_\_\_\_\_, attachment(s) # \_\_\_\_\_, and/or appendices # \_\_\_\_\_ to # \_\_\_\_\_ in its entirety, and agrees that no pages or parts of the document have been omitted, that he/she understands, accepts and agrees to fully comply with the requirements therein, and that the undersigned is authorized by the offeror to submit the proposal herein and to legally obligate the offeror thereto.

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

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

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

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

Phone: \_\_\_\_\_

**(Affix Corporate Seal)**

## SECTION 4

### CONTRACT COMPLIANCE REQUIREMENTS

#### 4.1 NON-DISCRIMINATION IN CONTRACTING AND PROCUREMENTS

It is the policy of Fulton County Government that discrimination against businesses by reason of the race, color, gender or national origin of the ownership of any such business is prohibited. Furthermore, it is the policy of the Board of Commissioners (“Board”) that Fulton County and all vendors and contractors doing business with Fulton County shall provide to all businesses the opportunity to participate in contracting and procurement paid, in whole or in part, with monetary appropriations of the Board. Similarly, it is the policy of the Board that the contracting and procurement practices of Fulton County should not implicate Fulton County as either an active or passive participant in the discriminatory practices engaged in by private contractors or vendors seeking to obtain contracts with Fulton County.

**Equal Business Opportunity Plan (EBO Plan):** In addition to the proposal submission requirements, each vendor **must** submit an Equal Business Opportunity Plan (EBO Plan) with their bid/proposal. The EBO Plan is designed to enhance the utilization of a particular racial, gender or ethnic group by a bidder/proposer, contractor, or vendor or by Fulton County. The respondent **must** outline a plan of action to encourage and achieve diversity and equality in the available procurement and contracting opportunities with *this solicitation*.

The EBO Plan **must** identify and include:

1. Potential opportunities within the scope of work of *this solicitation* that will allow for participation of racial, gender or ethnic groups.
2. Efforts that will be made by the bidder/proposer to encourage and solicit minority and female business utilization in *this solicitation*.

Fulton County encourages joint ventures, teaming, partnering and mentor-protégé relationships with minority and female businesses in an effort to achieve contracting and procurement diversity.

**Prompt Payment:** The prime contractor **must** certify in writing and **must** document on the Exhibit G Form (Prime Contractor/Subcontractor Utilization Report) that all subcontractors, sub-consultants and suppliers have been promptly paid for work and materials, (less any retainage by the prime contractor prior to receipt of any further progress payments). In the event the prime contractor is unable to pay subcontractors, sub-consultants or suppliers until it has received a progress payment from Fulton County, the prime contractor shall pay all subcontractors, sub-consultants or suppliers funds due from said progress payment within forty-eight (48) hours of receipt of payment from Fulton County. In no event shall a subcontractor, sub-consultant or supplier be paid later than fifteen (15) days as provided for by state law.

## 4.2 REQUIRED FORMS AND EBO PLAN

In order to be compliant with the intent and provisions of the Fulton County Non-Discrimination in Purchasing and Contracting Ordinance (99-0960), bidders/proposers **must** submit the following completed documents. Failure to provide this information **shall** result in the proposal being deemed non-responsive.

- **Exhibit A** – Promise of Non-Discrimination
- **Exhibit B** – Employment Report
- **Exhibit C** – Schedule of Intended Subcontractor Utilization
- **Exhibit D**– Letter of Intent to Perform as a Subcontractor or Provide Materials or Services
- **Exhibit E** – Declaration Regarding Subcontractors Practices
- **Exhibit F** – Joint Venture Disclosure Affidavit
- **Equal Business Opportunity Plan (EBO Plan)** – This document is not a form. It is a statement created by the bidder/proposer on its company letter head addressing the EBO Plan requirements.

All Contract Compliance documents (Exhibits A – F and EBO Plan) are to be placed in a **separate sealed envelope** clearly marked “Contract Compliance”. The EBO Plan must be submitted on company letterhead. These documents are considered part of and should be submitted with the Technical Proposal.

The following document must be completed as instructed if awarded the project:

- **Exhibit G** – Prime Contractor’s Subcontractor Utilization Report

**EXHIBIT A – PROMISE OF NON-DISCRIMINATION**

“Know all persons by these presents, that I/We ( \_\_\_\_\_ ),  
Name

\_\_\_\_\_ Title Firm Name

Hereinafter “Company”, in consideration of the privilege to bid on or obtain contracts funded, in whole or in part, by Fulton County, hereby consent, covenant and agree as follows:

- 1) No person shall be excluded from participation in, denied the benefit of, or otherwise discriminated against on the basis of race, color, national origin or gender in connection with any bid submitted to Fulton County for the performance of any resulting there from,
- 2) That it is and shall be the policy of this Company to provide equal opportunity to all businesses seeking to contract or otherwise interested in contracting with this Company without regard to the race, color, gender or national origin of the ownership of this business,
- 3) That the promises of non-discrimination as made and set forth herein shall be continuing in nature and shall remain in full force and effect without interruption,
- 4) That the promise of non-discrimination as made and set forth herein shall be made a part of, and incorporated by reference into, any contract or portion thereof which this Company may hereafter obtain,
- 5) That the failure of this Company to satisfactorily discharge any of the promises of non-discrimination as made and set forth herein shall constitute a material breach of contract entitling the Board to declare the contract in default and to exercise any and all applicable rights and remedies, including but not limited to cancellation of the contract, termination of the contract, suspension and debarment from future contracting opportunities, and withholding and/or forfeiture of compensation due and owing on a contract; and
- 6) That the bidder shall provide such information as may be required by the Director of Contract Compliance pursuant to SECTION 4.4 of the Fulton County Non-Discrimination in Purchasing and Contracting Ordinance.

**SIGNATURE:** \_\_\_\_\_

**ADDRESS:** \_\_\_\_\_

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

## EXHIBIT B – EMPLOYMENT REPORT

The demographic employment make-up for the bidder/proposer **must** be identified and submitted with this bid/proposal. In addition, if subcontractors will be utilized by the bidder/proposer to complete this project, then the demographic employment make-up of the subcontractor(s) must be identified and submitted with this bid.

<b>EMPLOYEES</b>
------------------

CATEGORY	NATIVE AMERICAN		AFRICAN AMERICAN		ASIAN AMERICAN		HISPANIC AMERICAN		CAUCASIAN AMERICAN		OTHER	
	M	F	M	F	M	F	M	F	M	F	M	F
Male/Female												
Mgmt/Official												
Professional												
Supervisors												
Office/ Clerical												
Craftsmen												
Laborers												
Other (specify)												
<b>TOTALS</b>												

**FIRM'S NAME:** \_\_\_\_\_

**ADDRESS:** \_\_\_\_\_

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

This completed form is for (Check one)  Bidder/Proposer  Subcontractor

**Submitted by:** \_\_\_\_\_ **Date Completed:** \_\_\_\_\_

**EXHIBIT C - SCHEDULE OF INTENDED SUBCONTRACTOR UTILIZATION**

If the bidder/proposer intends to subcontract any portion of this scope of work/service(s), this form **must be** completed and **submitted with the bid/proposal**. All prime bidders/proposers **must** include Letter(s) of Intent (Exhibit D) in the bid document for all subcontractors who will be utilized under the scope of work/services.

**Prime Bidder/Proposer:** \_\_\_\_\_

**ITB/RFP Number:** \_\_\_\_\_

**Project Name or Description of Work/Service(s):** \_\_\_\_\_

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

1. My firm, as Prime Bidder/Proposer on this scope of work/service(s) is \_\_\_\_\_ is not a minority or female owned and controlled business enterprise. (Please indicate below the portion of work, including, percentage of bid/proposal amount that your firm will carry out directly):

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

2. If the Prime Bidder/Proposer is a Joint Venture, please complete Exhibit F: Joint Venture Disclosure Affidavit and attach a copy of the executed Joint Venture Agreement.

3. Sub-Contractors (including suppliers) to be utilized in the performance of this scope of work/service(s), if awarded, are:

SUBCONTRACTOR NAME: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

PHONE: \_\_\_\_\_

CONTACT PERSON: \_\_\_\_\_

ETHNIC GROUP\*: \_\_\_\_\_ COUNTY CERTIFIED\*\* \_\_\_\_\_

WORK TO BE PERFORMED: \_\_\_\_\_

DOLLAR VALUE OF WORK: \$ \_\_\_\_\_ PERCENTAGE VALUE: \_\_\_\_\_ %

**\*Ethnic Groups: African American (AABE); Asian American (ABE); Hispanic American (HBE); Native American (NABE); White Female American (WFBE); \*\*If yes, please attach copy of recent certification.**

SUBCONTRACTOR NAME: \_\_\_\_\_  
ADDRESS: \_\_\_\_\_

PHONE: \_\_\_\_\_  
CONTACT PERSON: \_\_\_\_\_  
ETHNIC GROUP\*: \_\_\_\_\_ COUNTY CERTIFIED\*\* \_\_\_\_\_  
WORK TO BE PERFORMED: \_\_\_\_\_

DOLLAR VALUE OF WORK: \$ \_\_\_\_\_ PERCENTAGE VALUE: \_\_\_\_\_ %

---

SUBCONTRACTOR NAME: \_\_\_\_\_  
ADDRESS: \_\_\_\_\_

PHONE: \_\_\_\_\_  
CONTACT PERSON: \_\_\_\_\_  
ETHNIC GROUP\*: \_\_\_\_\_ COUNTY CERTIFIED\*\* \_\_\_\_\_  
WORK TO BE PERFORMED: \_\_\_\_\_

DOLLAR VALUE OF WORK: \$ \_\_\_\_\_ PERCENTAGE VALUE: \_\_\_\_\_ %

---

SUBCONTRACTOR NAME: \_\_\_\_\_  
ADDRESS: \_\_\_\_\_

PHONE: \_\_\_\_\_  
CONTACT PERSON: \_\_\_\_\_  
ETHNIC GROUP\*: \_\_\_\_\_ COUNTY CERTIFIED\*\* \_\_\_\_\_  
WORK TO BE PERFORMED: \_\_\_\_\_

DOLLAR VALUE OF WORK: \$ \_\_\_\_\_ PERCENTAGE VALUE: \_\_\_\_\_ %

---

SUBCONTRACTOR NAME: \_\_\_\_\_  
ADDRESS: \_\_\_\_\_

PHONE: \_\_\_\_\_  
CONTACT PERSON: \_\_\_\_\_  
ETHNIC GROUP\*: \_\_\_\_\_ COUNTY CERTIFIED\*\* \_\_\_\_\_  
WORK TO BE PERFORMED: \_\_\_\_\_

DOLLAR VALUE OF WORK: \$ \_\_\_\_\_ PERCENTAGE VALUE: \_\_\_\_\_ %

**Total Dollar Value of Subcontractor Agreements: (\$)**

**Total Percentage Value: (%)**

**CERTIFICATION:** The undersigned certifies that he/she has read, understands and agrees to be bound by the Bid/Proposer provisions, including the accompanying Exhibits and other terms and conditions regarding sub-contractor utilization. The undersigned further certifies that he/she is legally authorized by the Bidder/Proposer to make the statement and representation in this Exhibit and that said statements and representations are true and correct to the best of his/her knowledge and belief. The undersigned understands and agrees that if any of the statements and representations are made by the Bidder/Proposer knowing them to be false, or if there is a failure of the intentions, objectives and commitments set forth herein without prior approval of the County, then in any such event the Contractor's acts or failure to act, as the case may be, shall constitute a material breach of the contract, entitling the County to terminate the Contract for default. The right to so terminate shall be in addition to, and in lieu of, any other rights and remedies the County may have for other defaults under the contract.

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

**Firm or Corporate Name:** \_\_\_\_\_

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

**Telephone:** (     ) \_\_\_\_\_

**Fax Number:** (     ) \_\_\_\_\_

**Email Address:** \_\_\_\_\_

**EXHIBIT D**

**LETTER OF INTENT TO PERFORM AS A SUBCONTRACTOR  
OR  
PROVIDE MATERIALS OR SERVICES**

This form **must** be completed by **ALL** known subcontractor and submitted with the bid/proposal. The Prime Contractor **must** submit Letters of Intent for **ALL** known subcontractors at time of bid submission.

To: \_\_\_\_\_  
(Name of Prime Contractor Firm)

From: \_\_\_\_\_  
(Name of Subcontractor Firm)

ITB/RFP Number: \_\_\_\_\_

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

The undersigned is prepared to perform the following described work or provide materials or services in connection with the above project (specify in detail particular work items, materials, or services to be performed or provided):

Description of Work	Project Commence Date	Project Completion Date	Estimated Dollar Amount

\_\_\_\_\_  
(Prime Bidder)

\_\_\_\_\_  
(Subcontractor)

Signature \_\_\_\_\_

Signature \_\_\_\_\_

Title \_\_\_\_\_

Title \_\_\_\_\_

Date \_\_\_\_\_

Date \_\_\_\_\_

**EXHIBIT E - DECLARATION REGARDING SUBCONTRACTING PRACTICES**

If the bidder/proposer **does not intend to subcontract** any portion of the scope of work services(s), this form **must be** completed and submitted with the bid/proposal.

\_\_\_\_\_ hereby declares that it is my/our intent to  
**(Bidder)**

perform 100% of the work required for \_\_\_\_\_  
**(ITB/RFP Number)**

**(Description of Work)**

In making this declaration, the bidder/proposer states the following:

1. That the bidder/proposer does not customarily subcontract elements of this type project, and normally performs and has the capability to perform and will perform **all elements** of the work on this project with his/her own current work forces;
2. If it should become necessary to subcontract some portion of the work at a later date, the bidder/proposer will comply with all requirements of the County's Non-Discrimination Ordinance in providing equal opportunities to all firms to subcontract the work. The determination to subcontract some portion of the work at a later date shall be made in good faith and the County reserves the right to require additional information to substantiate a decision made by the bidder/proposer to subcontract work following the award of the contract. Nothing contained in this provision shall be employed to circumvent the spirit and intent of the County's Non-Discrimination Ordinances;
3. The bidder will provide, upon request, information sufficient for the County to verify Item Number one.

**AUTHORIZED COMPANY REPRESENTATIVE**

**Name:** \_\_\_\_\_ **Title:** \_\_\_\_\_ **Date:** \_\_\_\_\_

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

**Firm:** \_\_\_\_\_

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

**Phone Number:** \_\_\_\_\_

**Fax Number:** \_\_\_\_\_

**Email Address:** \_\_\_\_\_

**EXHIBIT F - JOINT VENTURE DISCLOSURE AFFIDAVIT**

**ITB/RFP No.** \_\_\_\_\_

**Project Name** \_\_\_\_\_

This form must be completed and submitted with the bid/proposal if a joint venture approach is to be undertaken.

In order to evaluate the extent of small, minority and female business involvement being proposed by a Bidder/Proposer, certain relevant information must be provided prior to contract award. The information requested below is to clearly identify and explain the extent of small business participation in the proposed joint venture. All items must be properly addressed before the business entity can be evaluated.

**1. Firms:**

**1) Name of Business:** \_\_\_\_\_

**Street Address:** \_\_\_\_\_

**Telephone No.:** \_\_\_\_\_

**Nature of Business:** \_\_\_\_\_

**2) Name of Business:** \_\_\_\_\_

**Street Address:** \_\_\_\_\_

**Telephone No.:** \_\_\_\_\_

**Nature of Business:** \_\_\_\_\_

**3) Name of Business:** \_\_\_\_\_

**Street Address:** \_\_\_\_\_

**Telephone No.:** \_\_\_\_\_

**Nature of Business:** \_\_\_\_\_

**NAME OF JOINT VENTURE (If applicable):** \_\_\_\_\_

**ADDRESS:** \_\_\_\_\_

**PRINCIPAL OFFICE:** \_\_\_\_\_

**OFFICE PHONE:** \_\_\_\_\_

**Note:** Attach additional sheets as required

1. Describe the capital contributions by each joint venturer and accounting thereof.
2. Describe the financial controls of the joint venture, e.g., will a separate cost center be established? Which venturer will be responsible for keeping the books? How will the expense therefore be reimbursed? What is the authority of each joint venture to commit or obligate the order?
3. Describe any ownership, options for ownership, or loans between the joint ventures. Identify terms thereof.
4. Describe the estimated contract cash flow for each joint venturer.
5. To what extent and by whom will the on-site work be supervised?
6. To what extent and by whom will the administrative office be supervised?
7. Which joint venturer will be responsible for material purchases including the estimated cost thereof? How will the purchase be financed?
8. Which joint venturer will provide equipment? What is the estimated cost thereof? How will the equipment be financed?
9. Describe the experience and business qualifications of each joint venturer.
10. Submit a copy of all joint venture agreements and evidence of authority to do business in the State of Georgia as well as locally, to include all necessary business licenses.
11. Percent of Minority/Female Business Enterprises ownership by each joint venture in terms of profit and loss sharing: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
12. The authority of each joint venturer to commit or obligate the other: \_\_\_\_\_  
\_\_\_\_\_
13. Number of personnel to be involved in project, their crafts and positions and whether they are employees of the Minority/Female Business Enterprises enterprise, the majority firm or the joint venture: \_\_\_\_\_  
\_\_\_\_\_

14. Identification of control and participation in venture; list those individuals who are responsible for day-to-day management and policy decision-maker, including, but not limited to, those with prime responsibility for areas designated below; (use additional sheets if necessary)

<u>Name</u> <u>Operation</u>	<u>Race</u>	<u>Sex</u>	<u>Financial</u> <u>Decisions</u>	<u>Supervision</u> <u>Field</u>
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

In connection with any work that these firms, as a joint venture, might be authorized to perform in connection with above captioned contract, we each do hereby authorize representatives of the Fulton County Department of Contract Compliance, Departments of Purchasing and Finance, under the direction of the County Manger's Office, to examine, from time to time, the books, records and files to the extent that such relate to this County project.

**WE DO SOLEMNLY DECLARE AND AFFIRM UNDER THE PENALTIES OF PERJURY THAT THE CONTENTS OF THE FOREGOING DOCUMENT ARE TRUE AND CORRECT, AND THAT WE ARE AUTHORIZED, ON BEHALF OF THE ABOVE FIRMS, TO MAKE THIS AFFIDAVIT AND GRANT THE ABOVE PRIVILEGE.**

FOR \_\_\_\_\_  
(Company)

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

\_\_\_\_\_  
(Signature of Affiant)

\_\_\_\_\_  
(Printed Name)

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

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

\_\_\_\_\_  
(Signature of Affiant)

\_\_\_\_\_  
(Printed Name)

State of \_\_\_\_\_:

County of \_\_\_\_\_:

On this \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, before me, appeared

\_\_\_\_\_, the undersigned known to me to be the person described in the foregoing Affidavit and acknowledge that he (she) executed the same in the capacity therein stated and for the purpose therein contained.

**EXHIBIT – G PRIME CONTRACTOR/SUB-CONTRACTOR UTILIZATION REPORT**

This report **must** be submitted by the **tenth day** of each month, along with a copy of your monthly invoice (schedule of values/payment application) to Contract Compliance. Failure to comply **shall** result in the County commencing proceedings to impose sanctions to the prime contractor, in addition to pursuing any other available legal remedy. Sanctions may include the suspending of any payment or part thereof, termination or cancellation of the contract, and the denial of participation in any future contracts awarded by Fulton County.

<b>REPORTING PERIOD</b>		<b>PROJECT NAME:</b>	
<b>FROM:</b>		<b>PROJECT NUMBER:</b>	
<b>TO:</b>		<b>PROJECT LOCATION:</b>	
<b>PRIME CONTRACTOR</b>		<b>Contract Award Date</b>	<b>Contract Award Amount</b>
<b>Name:</b>			
<b>Address:</b>			
<b>Telephone #:</b>			

**AMOUNT OF REQUISITION THIS PERIOD: \$** \_\_\_\_\_  
**TOTAL AMOUNT REQUISITION TO DATE: \$** \_\_\_\_\_

**SUBCONTRACTOR UTILIZATION** (add additional rows as necessary)

Name of Sub-Contractor	Description of Work	Contract Amount	Amount Paid To Date	Amount Requisition This Period	Starting
TOTALS					

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

*(Signature)*

*(Printed*

*Name)*

Notary: \_\_\_\_\_

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

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

## Section 5

### GENERAL SPECIFICATIONS

#### SPECIFICATIONS FOR COLD WATER METERS DISPLACEMENT TYPE—MAGNETIC DRIVE 5/8" through 2"

##### SCOPE

All meters furnished shall be produced at a manufacturing facility in the United States and conform to the "Standard Specifications for Cold Water Meters" C-700, latest revision issued by AWWA or as otherwise stated.

**All meters shall have a non-corrosive maincase made of a lead-free brass containing a minimum of 85% copper, such as Envirobrass II, that meets NSF 61 standard as outlined in Georgia rules for safe drinking water 391-3-5 effective January 1<sup>st</sup> of 1998.**

The county requires that the meter manufacturer furnish data in bar code format to include meter ID, meter size, factory test results, manufacturer name and date manufactured.

##### TYPE

Only magnetic driven, positive displacement meters of the flat nutating disc type or oscillating piston type design.

##### SIZE, CAPACITY, LENGTH

The size, capacity, and meter lengths shall be as specified in AWWA Standard C700 latest revision. The maximum number of disc nutations or piston oscillations is not to exceed those specified in AWWA C700 latest revision, Sec. 4.2 Registration, Table 1.

The serial number should be stamped on the maincase of the meter. Maincase markings shall be cast raised and shall indicate size, model, direction of flow and NSF 61 certification. Plastic main cases are not acceptable.

Meters for 5/8", 3/4", and 1" shall be the removeable bottom cap type. Bronze bottom caps shall be provided on 5/8", 3/4", and 1" meter sizes. 1-1/2" and 2" meters shall be the split case type made of lead-free brass, such as Envirobrass II, for the upper and lower shell assemblies.

All lead-free brass maincases shall be guaranteed free from manufacturing defects in workmanship and material for the life of the meter.

##### Direct Read Standard Register

The register shall be of the straight reading sealed magnetic drive type; and shall contain six (6) numeral wheels. Registers must be roll sealed or hermetically sealed. The register lid shall overlap the register box to protect the lens and must be made of a copper based alloy or a suitable synthetic polymer. The dial shall have a red center sweep test hand and shall include a low flow indicator on the dial face. The size of the meter and the date of manufacture shall be printed on the register face.

Registers shall be secured to the maincase by means of a tamperproof seal pin or an approved register seal screw that requires a special tool for removal.

## **Encoder Register**

Meter registers shall use true absolute encoder technology and report cumulative consumption values upon visual inspection. Registers shall be enumerated in U.S. gallons. All registers shall electronically read in 100-Gallon units. No battery dependent or pulse type systems will be accepted.

The register must be hermetically and permanently sealed so that it is impervious to dust, dirt, and moisture. It must operate under water. The manufacturer must guarantee in writing that the actual odometer reading will match the electronic read sent. If this is ever not the case, the manufacturer shall be responsible for the lost revenue at the Utility's prevailing rate.

The meter register shall have three terminal connections. The connection between the meter register and the remote pit lid module shall be accomplished by the use of a three conductor wire; each end connection of the wire shall be factory sealed with epoxy. The County shall not have to make any wiring connections. Each  $\frac{5}{8}$ " and  $\frac{3}{4}$ " positive displacement meter shall be provided with 6 feet of wire. Each 1", 1  $\frac{1}{2}$ ", and 2" positive displacement meter shall be provided with 20 feet of wire. An 8 digit ID number shall be stored in the solid state memory of the register. The ID number shall be factory set and programmable.

## **Radio Frequency Capability Options**

The metering system must be capable of being upgraded to radio frequency communications. Fulton Co. plans to read "hard-to-access" water meters equipped with meter interface units. Only true absolute encoder registers from Neptune, Sensus or approved equal will be acceptable. The system must be capable of reading them by either a "touch" type system or a radio frequency system. In the radio read system, the encoder registers will be connected to a meter interface unit that shall provide the radio link from the meter to the remote interface unit.

The manufacturer will guarantee that the reading obtained electronically matches the mechanical odometer read on the register and the manufacturer will pay the difference at the current rates whenever a discrepancy appears.

For maintenance ease, the vendor shall be the sole manufacturer of the different components of the system. (reading equipment, RF transmitters, encoder registers and meters)

For the purpose of ease of implementation, the system shall not require any special licensing, including licenses from FCC.

To minimize the potential for RF interference from other devices, the meter interface unit shall transmit using the Frequency Hopping Spread Spectrum technique comprised of alternating pseudo- random frequencies within the 902 MHz to 928 MHz unlicensed bandwidth.

Power shall be supplied to the meter interface unit by a lithium battery. The batteries shall be field replaceable (the replacement shall be demonstrated), and be designed and guaranteed for a minimum twenty (20) years life expectancy. The meter interface unit shall not require reprogramming if the battery discharges before it is replaced.

No programming shall be necessary for installation.

The meter interface unit will exist in a single port to read one register or a dual port that will read two registers at one time.

The meter interface unit shall interface to ProRead AutoDetect, Sensus Invensys or approved true absolute encoder registers via a 3-conductor wire.

Each device shall have a unique pre-programmed identification number of 10 characters. The ID number will be permanent and shall not be altered. Each device shall be labeled with the ID number in numeric form. The label shall also display FCC approval information and manufacturer's designation.

The meter interface unit shall transmit the encoded meter reading and its unique ID number.

The meter interface unit shall be capable of being received by either a handheld receiver or a Drive-By receiver without special configuration or remanufacture.

Tamper resistance shall be provided by a "non reading" if the wiring has been disconnected, indicating wire tamper. A system that only provides the last available reading is not permissible.

For pit or vault applications, the meter interface unit shall be designed for being installed through the industry standard 1-3/4" hole in the pit lid with no degradation of transmission range. The meter interface unit will be capable of mounting to various thickness of pit lids form 1/2" to 3".

The range will not be affected when the pit is flooded.

A factory potting process will protect the circuit board and the battery.

The antenna shall be made of a metallic material to withstand traffic configuration.

## **MEASURING CHAMBER**

### Nutating disc type:

The measuring chamber shall be of a two-piece snap-joint type with no fasteners allowed. The chamber shall be made of a non-hydrolyzing synthetic polymer. No screws shall be used to secure the chamber together.

The flat nutating disc chamber shall be of the one-piece design and made from non-hydrolyzing synthetic polymer, and shall contain a type 316 stainless steel spindle. The nutating disc shall be equipped with a synthetic polymer thrust roller located within the disc slot. The control block shall be the same material as the measuring chamber and be located on top of the chamber. The control block assembly shall be located after the strainer.

### Oscillating piston type:

The oscillating piston chamber shall be made of a suitable synthetic polymer and shall not be cast as part of the maincase. The measuring chamber shall be held in place without the use of fasteners. The measuring chamber piston shall operate against a replaceable control roller, allowing for repair to AWWA standards. The control roller shall rotate on a stainless measuring chamber steel pin. There shall be an elastomeric seal or seals between measured and unmeasured water, preventing leakage around the measuring element.

## **STRAINERS**

All meters shall contain removable plastic strainer screens. The strainer shall be located near the maincase inlet port, before the measuring chamber and control block assembly. Straps or other types of fasteners shall not be accepted.

## **PERFORMANCE**

To ensure accuracy, each meter must be accompanied by a factory test tag certifying the accuracy at the flows required by AWWA C700 (low, intermediate, and full flow).

Normal meter operating range shall be warranted per AWWA C700 Section 4.2 Table 1.

<b><u>Size</u></b>	<b><u>Range (100 +/- 1.5)</u></b>
5/8"	1/2 - 20 gpm
3/4"	3/4 - 30 gpm
1"	1 - 50 gpm
1-1/2"	2 - 100 gpm
2"	2-1/2" - 160 gpm

## **MANUFACTURER**

Meters and meter parts shall be manufactured, assembled, and tested within the Continental United States. Manufacturers may be required to provide proof of where and of what percentage of the meter register, chamber, and maincase is manufactured as per specified.

Manufacturers shall have a minimum of ten years of field and production experience with all sizes of the model quoted for model standardization. Manufacturers shall provide only one model of meter which complies with these specifications. Meter suppliers must manufacture a full line of meters, 5/8" – 10".

## **SYSTEMS GUARANTEE**

All meters shall be guaranteed upgradeable to a Neptune ProRead Absolute Encoder or a Sensus ICE Encoder.

<b>Meter Size</b>	<b>Laying Length</b>
5/8" x 3/4"	7 1/2"
3/4" x 3/4"	7 1/2"
1"	10 3/4"
1 1/2"	13"
2"	17"

## **ACCESSORIES**

ALL POSITIVE DISPLACEMENT METERS SHALL BE PROVIDED WITH TWO (2) WASHERS OF THE APPROPRIATE SIZE.

## **Cold Water Meters/Compound Type Specifications**

### **1. General**

All meters furnished shall be manufactured by a registered ISO 9001 quality standard facility. Acceptable meters shall have a minimum of ten years of successful field use. All specifications meet or exceed the latest revision of AWWA C702.

### **2. Type**

Compound meters shall consist of a combination of an AWWA Class II turbine meter for measuring high rates of flow and a nutating disc type or oscillating piston type positive displacement meter for measuring low rates of flow enclosed in a single maincase. An automatic valve shall direct flows through the disc meter at low flow rates and through the turbine meter at high flow rates. At high flow rates, the automatic valve shall also serve to restrict the flow through the disc meter to minimize wear. Compound meters shall be of the single or dual register single body design. No dual body or combination style meter will be accepted.

### **3. Operating Characteristics**

The meters shall comply with the operating characteristics shown below:

<b>Size</b>	<b>Normal Operating Maximum Loss of Head Range (gpm) Flow (gpm)</b>		<b>Maximum Continuous Maximum Intermittent at Max Cont Flow (psi)</b>		<b>Low Flow</b>
2"	1/2 - 200	160	8	200	1/8
3"	1/2 - 450	350	8	450	1/8

4"	1 - 1000	700	8	1000	1/2
6"	1 1/2 - 2000	1400	8.5	2000	3/4
6" x 8"	1 1/2 - 2000	2000	10.5	2000	3/4

**4. Size**

The size of meters shall be determined by the nominal size (in inches) of the opening in the inlet and outlet flanges. Overall lengths of the meters shall be as follows:

Meter Size	Laying Length
2"	15 1/4"
3"	17"
4"	20"
6"	24"
6" x 8"	55 3/8"

**5. Case and Cover**

The maincase and cover shall be cast from lead free brass containing a minimum of 85% copper such as Envirobrass II. The size, model, and arrows indicating direction of flow shall be cast in raised characters on the maincase and cover. The covers all contain a stainless steel calibration vane for the purpose of calibrating the turbine measuring element while the meter is in-line and under pressure. A test plug shall be located in the maincase or the cover for the purpose of field testing of the meter.

**6. External Bolts**

Casing bolts shall be made of AISI Type 316 stainless steel.

**7. Connections**

Main cases shall be flanged. The 2" meters shall be oval flanged and 3" through 6" sizes shall be round flanged per Table 4, AWWA C702.

**8. Direct Read Standard Registers**

Separate magnetic-drive registers shall record the flow of the turbine meter and the nutating disc type or oscillating piston type positive displacement meter and their total will be the registration of the compound meter. The registers shall be permanently sealed, straight reading indicating in gallons. Registers shall include a center-sweep test hand, a low flow indicator, and a glass lens. The registers shall be serviceable without interruption of the meter's operation.

**9. Register Boxes**

Register boxes and covers shall be of bronze composition. The name of the manufacturer shall be clearly identifiable and located on the register box covers.

**10. Register Box Sealing**

The register box shall be affixed to the cover by means of a tamper-proof seal pin or an approved tamper-proof device.

**11. Meter Serial Number**

The meter serial number shall be imprinted on the meter flange or cover as well as the register box covers.

## **12. Encoder Register**

Meter registers shall use true absolute encoder technology and report cumulative consumption values upon visual inspection. Registers shall be enumerated in U.S. gallons. All registers shall electronically read in 100-Gallon units. No battery dependent or pulse type systems will be accepted.

The register must be hermetically and permanently sealed so that it is impervious to dust, dirt, and moisture. It must operate under water. The manufacturer must guarantee in writing that the actual odometer reading will match the electronic read sent. If this is ever not the case, the manufacturer shall be responsible for the lost revenue at the utility's prevailing rate.

The meter register shall have three terminal connections. The connection between the meter register and the remote pit lid module shall be accomplished by the use of a three conductor wire; each end connection of the wire shall be factory sealed with epoxy. The County shall not have to make any wiring connections. Each compound meter shall be provided with 20 feet of wire. An 8 digit ID number shall be stored in the solid state memory of the register. The ID number shall be factory set and programmable.

## **13. Measuring Chambers**

The turbine measuring chamber shall be a self-contained unit, attached to the cover for easy removal. The turbine shaft shall be tungsten carbide with tungsten carbide inserts and shall rotate in removable graphite bushings. Thrust bearings shall be tungsten carbide.

The positive displacement chamber shall be a self-contained unit mounted on the cover and easily removable from the cover. It shall conform to AWWA Standard C700 for the following sizes: 2" and 3"-5/8" disc, 4"-3/4" disc, 6"-1" disc.

## **14. Measuring Chamber Replacement**

A replacement measuring chamber shall be available as a complete assembly, factory calibrated to AWWA standards, that includes the cover, registers, and both the turbine measuring element and the positive displacement chamber assembly. It shall be easily field removable from the meter body without the requirement of unbolting flanges.

## **15. Intermediate Gear Train - Turbine Section**

The intermediate gear train shall be directly coupled from the turbine rotor and magnetically coupled to the register through the meter cover. The gear train shall be housed in the turbine measuring chamber. All moving parts of the gear train shall be made of a self-lubricating polymer or stainless steel for operation in water. Single register meters shall include intermediate gear trains, including all coordinator parts located in an oil filled, "O"-ring sealed cavity which is completely separated from pipeline or surface water.

## **16. Automatic Valve**

The automatic valve shall be of the spring-loaded, poppet type. All valve parts shall be made of lead free brass containing a minimum of 85% copper such as Envirobrass II, stainless steel, or a suitable polymer with a replaceable semi-hard EPDM rubber seat or of the weighted, link-mounted, swing type.

Only the cover must be removed to gain access to the valve for inspection or service.

The positive displacement meter shall include a self actuated valve that directs flow through the PD meter at low flow rates and through the turbine meter at high flow rates. At high flow rates, the self actuated throttle valve shall restrict the flow through the disc meter to minimize wear.

## **17. Strainer**

A strainer shall be provided for the nutating disc type or oscillating piston type positive displacement meter. It shall be easily removable and have an effective straining area of double the disc meter inlet.

Strainers for the compound meters shall be made of lead free brass containing a minimum of 85% copper such as Envirobrass II. The manufacturer's name, strainer pipe size, and direction of flow shall be cast in raised letters and shall be clearly visible. The strainer screen shall be made of perforated AISI Type 18-8 stainless steel plate to prevent debris greater than 3/16 " from entering the meter. The effective area shall be at least twice the meter maincase inlet area. The 2" strainer shall be furnished with oval two-bolt flanged connections, full faced gaskets and stainless bolts. The 3" and larger strainers shall be with round flanged connections, full faced gaskets and stainless bolts.

## **18. Registration Accuracy**

Registration accuracy over the normal operating range shall be 98.5% to 101.5%. Registration at the crossover shall not be less than 95% with direct reading registers. Registration at the crossover shall not be less than 90% with absolute encoder or generator remote registers. Registration at the extended low flow rate shall not be less than 95%.

## **19. Remote Capability Options**

All meters shall be equipped with true absolute encoder remote registers per AWWA C707 and shall meet all AWWA C702 performance standards.

All meters shall be guaranteed upgradeable to a Neptune Absolute Encoder or Sensus ICE Encoder.

## **20. Radio Frequency Capability Options**

The metering system must be capable of being upgraded to radio frequency communications. Fulton Co. plans to read "hard-to-access" water meters equipped with meter interface units. Only true absolute encoder registers from Neptune, Sensus or approved equal will be acceptable. The system must be capable of reading them by either a "touch" type system or a radio frequency system. In the radio read system, the encoder registers will be connected to a meter interface unit that shall provide the radio link from the meter to the remote interface unit.

The manufacturer will guarantee that the reading obtained electronically matches the mechanical odometer read on the register and the manufacturer will pay the difference at the current rates whenever a discrepancy appears.

For maintenance ease, the vendor shall be the sole manufacturer of the different components of the system. (reading equipment, RF transmitters, encoder registers and meters)

For the purpose of ease of implementation, the system shall not require any special licensing, including licenses from FCC.

To minimize the potential for RF interference from other devices, the meter interface unit shall transmit using the Frequency Hopping Spread Spectrum technique comprised of alternating pseudo-random frequencies within the 902 MHz to 928 MHz unlicensed bandwidth.

Power shall be supplied to the meter interface unit by a lithium battery. The batteries shall be field replaceable (the replacement shall be demonstrated), and be designed and guaranteed for a minimum twenty (20) years life expectancy. The meter interface unit shall not require reprogramming if the battery discharges before it is replaced.

No programming shall be necessary for installation.

The meter interface unit will exist in a single port to read one register or a dual port that will read two registers at one time.

The meter interface unit shall interface to ProRead AutoDetect, Sensus or approved true absolute encoder registers via a 3-conductor wire.

Each device shall have a unique pre-programmed identification number of 10 characters. The ID number will be permanent and shall not be altered. Each device shall be labeled with the ID number

in numeric form. The label shall also display FCC approval information and manufacturer's designation.

The meter interface unit shall transmit the encoded meter reading and its unique ID number.

The meter interface unit shall be capable of being received by either a handheld receiver or a Drive-By receiver without special configuration or remanufacture.

Tamper resistance shall be provided by a "non reading" if the wiring has been disconnected, indicating wire tamper. A system that only provides the last available reading is not permissible.

For pit or vault applications, the meter interface unit shall be designed for being installed through the industry standard 1-3/4" hole in the pit lid with no degradation of transmission range. The meter interface unit will be capable of mounting to various thickness of pit lids form 1/2" to 3".

The range will not be affected when the pit is flooded.

A factory potting process will protect the circuit board and the battery.

The antenna shall be made of a metallic material to withstand traffic configuration.

## **Cold Water Meters/Fire Service Meter Specifications**

### **1. General**

All meters furnished shall be manufactured by a registered ISO 9001 quality standard facility. All specifications meet or exceed the latest revision of AWWA C703.

### **2. Type**

Meters shall consist of a combination of an AWWA Class II in-line horizontal axis turbine for measuring high rates of flow and a positive displacement bypass meter conforming to AWWA C700 for measuring low rates of flow. An automatic valve shall direct the flow from the bypass meter to the mainline meter as flow rates increase and back to the bypass meter as flow rates decrease. All components of the meter assembly shall be both UL (Underwriter's Laboratory) Listed and FM (Factory Mutual) approved for fire service use.

### **3. Capacity**

The capacity of the meters in terms of normal operating range, maximum rate for continuous use, maximum loss of head, and extended low flow capability is as follows:

<b>Size</b>	<b>Normal Operating</b>	<b>Maximum Rate for</b>	<b>Maximum Loss of Head</b>	<b>Extended</b>
<b>Low</b>	<b>Range (gpm)</b>	<b>Continuous Use (gpm)</b>	<b>@ Max Rate (psi)</b>	<b>Flow (gpm)</b>
4"	3/4 - 1200	1200	9	3/8
6"	1 1/2 - 2500	2500	10.5	3/4
8"	2 - 4000	4000	10.5	1
10"	2 - 6500	6500	9	1

### **4. Size**

The size of meters shall be determined by the nominal size (in inches) of the opening in the inlet and outlet flanges. Overall lengths of the meters shall be as follows:

<b>Meter Size</b>	<b>Laying Length</b>
-------------------	----------------------

4"	33"
6"	45"
8"	53"
10"	68"

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**5. Case**

The meter body, strainer body, and valve body shall be fabricated steel with a coating of fusion-bonded epoxy both internally and externally or coated ductile iron. The meter body shall be welded to the valve body effecting a uni-body construction with the valve. The strainer outlet and meter inlet shall be connected by a Style 77 Victaulic or other UL Listed/FM Approved grooved coupling. The meter assembly shall have a rated working pressure of 175 psi.

**6. Cover**

The meter cover shall be cast of lead free brass containing a minimum of 85% copper such as Envirobrass II. An arrow indicating direction of flow shall be cast in raised characters on the cover. The cover shall have a rated working pressure of 175 psi. The cover shall contain a calibration vane for the purpose of calibrating the turbine measuring element while in-line and under pressure. The calibration vane shall be mounted under the register that is attached in a tamper-resistant manner.

**7. External Bolts**

Meter cover bolts shall be made of AISI Type 316 stainless steel.

**8. Connections**

Inlet and outlet flanges shall be round flanged per AWWA C207, Class D.

**9. Registers**

Registers shall be permanently roll-sealed, straight reading in gallons or cubic feet. Registers shall include a center-sweep test hand and low flow indicator. Registers shall be removable for replacement without interruption of the service line.

**10. Register Boxes**

Register boxes and covers shall be of bronze composition. The name of the manufacturer and the meter serial number shall be clearly identifiable and located on the register box covers.

**11. Register Box Sealing**

The register box shall be affixed to the top cover by means of a tamper-proof seal pin or an approved tamper-proof device.

**12. Meter Serial Number**

The meter serial number shall be on the meter flange or cover and on register box covers.

**13. Encoder Register**

Meter registers shall use true absolute encoder technology and report cumulative consumption values upon visual inspection. Registers shall be enumerated in U.S. gallons. All registers shall electronically read in 100-Gallon units. No battery dependent or pulse type systems will be accepted.

The register must be hermetically and permanently sealed so that it is impervious to dust, dirt, and moisture. It must operate under water. The manufacturer must guarantee in writing that the actual odometer reading will match the electronic read sent. If this is ever not the case, the manufacturer shall be responsible for the lost revenue at the utility's prevailing rate.

The meter register shall have three terminal connections. The connection between the meter register and the remote pit lid module shall be accomplished by the use of a three conductor wire; each end connection of the wire shall be factory sealed with epoxy. The County shall not have to make any wiring connections. Each fire service meter shall be provided with 20 feet of wire. An 8 digit ID number shall be stored in the solid state memory of the register. The ID number shall be factory set and programmable.

#### **14. Measuring Chamber Replacement**

A replacement measuring chamber shall be available as a complete assembly, factory calibrated to AWWA standards, that includes the cover, registers, and the turbine measuring element. It shall be easily field removable from the meter body without the requirement of unbolting flanges.

#### **15. Intermediate Gear Train**

The intermediate gear train shall be directly coupled to the turbine rotor and magnetically coupled to the register through the meter cover. The gear train shall be housed within the turbine measuring chamber. All moving parts of the gear train shall be made of a self-lubricating polymer or AISI Type 316 stainless steel for operation in water.

#### **16. Bypass Meter**

The bypass meter shall be of a positive displacement type. The bypass meter may be piped on the left or right side of the assembly. The bypass meter shall include a self-actuated valve that directs flow through the disc meter at low flow rates, and through the turbine meter at high flow rates. At high flow rates, the self-actuated throttle valve shall restrict the flow through the disc meter to minimize wear.

#### **17. Automatic Valve**

The automatic valve shall be of the spring-loaded, knuckle-joint type. All internal linkage parts shall be stainless steel. A vulcanized rubber disc on a stainless steel clapper plate shall seal against a bronze seat. The springs shall be AISI Type 18-8 stainless steel.

#### **18. Registration Accuracy**

Registration accuracy over the normal operating range shall be 98.5% to 101.5%.

#### **19. Remote Capability Options**

All meters shall be equipped with true absolute encoder remote registers per AWWA C707, and meet all AWWA C703 performance standards.

All meters shall be guaranteed upgradeable to a Neptune Absolute Encoder or Sensus ICE Encoder.

#### **20. Radio Frequency Capability Options**

The metering system must be capable of being upgraded to radio frequency communications. Fulton Co. plans to read "hard-to-access" water meters equipped with meter interface units. Only true absolute encoder registers from Neptune, Sensus or approved equal will be acceptable. The system must be capable of reading them by either a "touch" type system or a radio frequency system. In the radio read system, the encoder registers will be connected to a meter interface unit that shall provide the radio link from the meter to the remote interface unit.

The manufacturer will guarantee that the reading obtained electronically matches the mechanical odometer read on the register and the manufacturer will pay the difference at the current rates whenever a discrepancy appears.

For maintenance ease, the vendor shall be the sole manufacturer of the different components of the system. (reading equipment, RF transmitters, encoder registers and meters)

For the purpose of ease of implementation, the system shall not require any special licensing, including licenses from FCC.

To minimize the potential for RF interference from other devices, the meter interface unit shall transmit using the Frequency Hopping Spread Spectrum technique comprised of alternating pseudo-random frequencies within the 902 MHz to 928 MHz unlicensed bandwidth.

Power shall be supplied to the meter interface unit by a lithium battery. The batteries shall be field replaceable (the replacement shall be demonstrated), and be designed and guaranteed for a minimum twenty (20) years life expectancy. The meter interface unit shall not require reprogramming if the battery discharges before it is replaced.

No programming shall be necessary for installation.

The meter interface unit will exist in a single port to read one register or a dual port that will read two registers at one time.

The meter interface unit shall interface to ProRead AutoDetect, Sensus or approved true absolute encoder registers via a 3-conductor wire.

Each device shall have a unique pre-programmed identification number of 10 characters. The ID number will be permanent and shall not be altered. Each device shall be labeled with the ID number in numeric form. The label shall also display FCC approval information and manufacturer's designation.

The meter interface unit shall transmit the encoded meter reading and its unique ID number.

The meter interface unit shall be capable of being received by either a handheld receiver or a Drive-By receiver without special configuration or remanufacture.

Tamper resistance shall be provided by a "non reading" if the wiring has been disconnected, indicating wire tamper. A system that only provides the last available reading is not permissible.

For pit or vault applications, the meter interface unit shall be designed for being installed through the industry standard 1-3/4" hole in the pit lid with no degradation of transmission range. The meter interface unit will be capable of mounting to various thickness of pit lids from 1/2" to 3".

The range will not be affected when the pit is flooded.

A factory potting process will protect the circuit board and the battery.

The antenna shall be made of a metallic material to withstand traffic configuration.

**SECTION 6**

**BID PRICE SHEET**

<b>EST. ANNUAL USAGE QTY.</b>	<b>SIZE/DESCRIPTION</b>	<b>PRICE EA. WITH ENCODER</b>	<b>PRICE EA. WITH DIRECT READ</b>
1. 8,000 EACH	5/8" X 3/4" COLD WATER METER (INCLUDES WASHERS)	\$ _____ (1)	\$ _____ (1A)
2. 100 EACH	3/4" X 3/4" COLD WATER METER (INCLUDES WASHERS)	\$ _____ (2)	\$ _____ (2A)
3. 100 EACH	1" X 1" COLD WATER METER (INCLUDES WASHERS)	\$ _____ (3)	\$ _____ (3A)
4. 50 EACH	1-1/2" X 1-1/2" COLD WATER METER (INCLUDES WASHERS)	\$ _____ (4)	\$ _____ (4A)
5. 60 EACH	2" X 2" COLD WATER METER (INCLUDES WASHERS)	\$ _____ (5)	\$ _____ (5A)
6. 50 EACH	2" COMBINATION WATER METER		\$ _____ (6)
7. 10 EACH	2" MEASURING CHAMBER REPLACEMENT		\$ _____ (7)
8. 50 EACH	2" STRAINER FOR 2" METER		\$ _____ (8)
9. 50 EACH	3" COMBINATION WATER METER		\$ _____ (9)
10. 10 EACH	3" MEASURING CHAMBER REPLACEMENT		\$ _____ (10)
11. 50 EACH	3" STRAINER FOR 3" METER		\$ _____ (11)
12. 45 EACH	4" COMBINATION WATER METER		\$ _____ (12)
13. 10 EACH	4" MEASURING CHAMBER REPLACEMENT		\$ _____ (13)
14. 45 EACH	4" STRAINER FOR 4" METER		\$ _____ (14)
15. 4 EACH	6" COMBINATION WATER METER		\$ _____ (15)
16. 1 EACH	6" MEASURING CHAMBER REPLACEMENT		\$ _____ (16)
17. 4 EACH	6" STRAINER FOR 6" METER		\$ _____ (17)
18. 20 EACH	6" FACTORY MUTUAL WATER METER		\$ _____ (18)
19. 1 EACH	6" FM MEASURING CHAMBER REPLACEMENT		\$ _____ (19)
20. 20 EACH	8" FACTORY MUTUAL WATER METER		\$ _____ (20)

21.	1 EACH	8" F.M. MEASURING CHAMBER REPLACEMENT	\$ _____(21)
22.	1 EACH	10" FACTORY MUTUAL WATER METER	\$ _____(22)
23.	1 EACH	10" F.M. MEASURING CHAMBER REPLACEMENT	\$ _____(23)
24.	5 EACH	1½ " FLANGE KIT & ACCES FOR 1 ½ " METER	\$ _____(24)
25.	6 EACH	2 " FLANGE KIT & ACCES. FOR 2" METER	\$ _____(25)
26.	300 EACH	TOUCH READ PAD & CONNECTION KIT	\$ _____(26)
27.	25 EACH	RADIO TRANSMITTER WITH UP TO 25 FT LEAD	\$ _____(27)
28.	25 EACH	RADIO TRANSMITTER & ENCODER REGISTER WITH UP TO 25' LEAD	\$ _____(28)

**TOTAL BID AMOUNT** \$ \_\_\_\_\_