

SECTION 4

SPECIFIC SPECIFICATIONS AND SPECIAL CONDITIONS FOR COMMERCIAL IRRIGATION EVENT # 1015

- 4.0 The purpose of these specifications is to establish an annual contract for installations and repair of commercial/industrial underground sprinkler irrigation systems. The City's Buildings & Grounds Department will be the primary user of this contract. Other City departments may require the contractor's services on a case by case basis.
- 4.1 **Detailed Specifications:**
- 4.2 **Materials:** The contractor will supply products called for in the material specifications and will not make substitutions without written authorization by the using department. Contractor will acquire products that are called for by brand name, only from distributors that are authorized to market and warranty said products.
- 4.3 **Warranties:** Standard manufacturer's warranties shall extend on materials used from date of installation. Contractors warranty on workmanship of repair or installation shall extend from 1 year upon completion. Exemptions from the workmanship warranty are as follows:
- a) Excavation damage caused by others.
 - b) Lightning strikes.
 - c) Neglect or abuse by users.
 - d) Vandalism.
 - e). Damage caused by utilities.
- 4.4 **Response Time:** Repair work response shall begin within 3 hours for emergencies. Response for routine repairs shall begin within 48 hours. Response time is defined as the time required for a full crew to arrive at the job site ready to begin work.
- 4.5 **Disabled Systems:** Contractor must notify City of time the irrigation system will be disabled so that the using department can arrange for alternate water of plant material if deemed necessary.
- If the irrigation system will be disabled for more than ten (10) calendar days, Contractor must provide alternate irrigation to the site.
- 4.6 **Estimates:** In preparing estimates, the contractor shall breakdown each specific installation or repair by the following:
- a) Labor by hour (if repair) with estimated repair time, or labor by job (if new installation estimated time.
 - b) Total material cost per job.

- c) Specific repair function descriptions with locations of repair to be performed.

4.7 **Bid Pricing:** Bid pricing shall consist of three components.

- a) A labor rate per man hour shall be indicated. This rate shall include all wage classifications, any overtime premiums, and any miscellaneous equipment or small tools that may be required.
- b) Material pricing shall be based on a percent discount from published price lists. The City reserves the right to request material invoices to verify discount.
- c) An hourly rate for trenching equipment shall be indicated. If special equipment other than a standard trencher is needed, this rate will be negotiated between the vendor and the City.

4.8 All new installations and repairs to existing installation shall conform to Cross-connection Control Policy Manuals for the City of Savannah.

4.9 Design services to include all usual and customary scale drawings and specifications necessary to install an irrigation system. On new Installations "As Built" scale plans are to be furnished to the originating department before payment will be made.

4.10 **Qualifications/Certifications:**

- a) Successful bidder shall be licensed to perform low voltage electrical work or have licensed sub-contractor to perform such work.
- b) The contractor selected is encouraged to have on staff an Irrigation Designer with a minimum Level II certification by: The Irrigation Association or contractor is encouraged to have been awarded the Stamp of Approval issued by: Georgia Irrigation Association or contractor shall have certification from another organization, subject to that verification of that organization's requirements.
- c) Contractor shall also have Calsense Controller installation experience, or be familiar with and be able to troubleshoot and install another comparable central control system.
- d) Contractor shall be able to make repairs to large (4"-6") PVC pipe that require mechanical fittings.
- e) Contractor shall have basic working understanding of booster pumps used for irrigation.
- f) "On Staff" shall denote a permanent, full-time employee of the bidding firm.
- g) The award of this contract will be predicated on the contractor's previous experience in the irrigation industry as well as fee proposal. Contractor must provide with their bid a current list of

customer references including a contact name and phone number for each. A Bidder's Qualification Form is attached for your convenience.

- h) The contractor shall supply with their bid a statement of certifications held and systems with which they have experience.
- i) Contractors with a basic working understanding of hydraulic irrigation systems are preferred.

4.11 Contractor shall login and logout with the City Departmental Irrigation Specialist before starting and finishing a repair or installation project.

4.12 **Specific Installation Details:**

4.13 Contractor must comply with all current cross connection and back flow requirements if job requires a new back flow prevention device. It is the contractor's responsibility to coordinate with the City's water department for the type of back flow prevent or required on the specific job and to obtain permits if this is to be a new installation. City will be responsible for coordinating the installation of any new water meters.

4.14 Any installation of new PVC piping other than that for repair of an existing pipe must be installed with the following depth requirements by its specific purpose.

- a) Main Pressurized Pipe - 18" depth of cover
- b) Lateral or Zone Pipe - 12" depth of cover
- c) Conduits used for Electrical - 12" depth of cover

4.15 Installation of under pavement sleeves for irrigation pipes or wires must be a minimum of 12" below lowest point of aggregate used for asphaltic base or 12" below bottom of concrete used for walks or drives. Diameter of sleeve shall be a minimum size that is twice the diameter of pipe to be sleeved. Sleeve shall be double in sized if two pipes are used. Sleeves may be used to conduit electrical control wires as well. Minimum sleeve sized for wires only 2".

- Example:
- 1 ½ PVC = 3" sleeve
 - 2" PVC = 4" sleeve
 - 2 ea 1 ½ PVC = 6" sleeve

4.16 Installation of underground direct burial wire if installed in trench containing PVC pipe will be placed under the PVC pipe.

4.17 Backfilling of trenches containing pipe or wires shall be re-compacted with a vibratory packer machine to minimize future sagging of ditch and to prevent liabilities from unseen depressed areas. Backfill material shall be free of sharp objects or rocks to prevent damage to pipe or wires during re-compaction.

- 4.18 Backfill material surrounding sprinkler heads shall be a permeable sand or light pea gravel to discourage puddling around sprinkler head. Sprinkler head shall be installed to the proper grade and shall be hand compacted only.
- 4.19 Valve box will be supported by bricks and set at grade before backfilling. Valve box must not rest on piping entering or exiting the device contained within the valve box. Valve box will be sized by the component they enclose. The valve boxes shall be installed at points where multiple wire splices are made.
- 4.20 Wire splices at electric valves will be made only with City approved devices. Any point that has a splice that may be accessed through a valve box must have a minimum of 10" of coiled wire 1" in diameter for slack in future repairs and surge protection.
- 4.21 All solvent weld PVC pipe connections will have an approved cleaner or primer applied before solvent welding. All solvent welds will be made within the temperature range required by the solvent cement manufacturer. Pressurization of pipe will occur within the solvent manufacturer's recommended curing time.
- 4.22 All gasket socket PVC pipe will be installed with manufacturers approved lubricant.
- 4.23 All gasket socket PVC pipe will be thrust blocked with concrete resting against undisturbed earth. Pipe will be isolated from concrete by plastic sheet barrier. Center of thrust block will have a minimum of 48" of steel rebar driven into earth to prevent movement.
- 4.24 Shrub heads shall be installed with "funny pipe". All turf heads and quick coupling valves shall be installed with pre-manufactured triple swing joints. Pipe schedule for triple swing joints to be determined by using department prior to installation.
- 4.25 Piping entering and exiting electric valves and back flow devices must be type Schedule 80. The nipple shall extend just outside of valve box where it may be solvent welded to main or lateral pipe.
- 4.26 Valve boxes containing electric valves will have zone number clearly marked on top lid with painted stencil or vinyl number. Quick coupling valve box will be marked "QCV". Gate valves or shutoff will be marked "GV". Box with wire splices will be marked "WS".
- 4.27 All electrical controllers will be installed with the manufacturers recommended lightning and surge protection devices and installed with the specified number of ground rods that are a minimum of 8 foot depth. Ground rods installed in soil will be marked with a specified valve box. Electrical controllers will be hard wired into dedicated circuit. Plug in type transformers will not be accepted. City of Savannah will be responsible for power supply to electric controller.

- 4.28 Open ditches and trenches shall be properly barricaded when left overnight. Work site shall be left in acceptable condition at the end of each day (no debris on sidewalks, work site debris picked up).
- 4.29 **Specific Material Specifications:**
- 4.30 All underground PVC pipe that is to be used for pressurized main line supply and lateral lines downstream of electric valves shall be Type 1120 PVC solvent or gasket joint SDR 21 Class 200 psi, no exceptions.
- 4.31 All PVC used for sleeving purposes shall be schedule 40 PVC Type 1120 solvent weld.
- 4.32 All PVC used for underground conduit to transport electrical wires shall be gray schedule 40 UL listed conduit.
- 4.33 Approved controllers manufacturers are: Rainbird, Calsense, Hunter and Toro. All replacement controllers shall be approved by the user department prior to installation.
- 4.34 Approved Rain shutoff devices are Rainbird "Raincheck" or Glen Hilton "MiniClick".
- 4.35 Approved valve boxes sized by components used with: (Approved manufacturers Carson, Ametek or equal.)

5.0 General Specifications:

- 5.1 **Basis of Award:** Contract will be awarded to the vendor(s) with the lowest net cost to the City and who meets all City specifications.

The City reserves the right to award this contract to primary, secondary and tertiary vendors. Secondary and tertiary suppliers may be selected to fill orders if the primary supplier cannot make provision to the City when time is of the essence.

The award of this contract will be predicated on the contractor's previous experience in the irrigation industry as well as fee proposal. Contractor must provide with their bid a current list of customer references including a contact name and phone number for each.

- 5.2 This is an annual contract and prices are to be held firm for a period of one (1) year (12 months). This contract may be extended for four (4) additional one (1) year periods at the same terms and conditions upon mutual agreement of the contracting parties.
- 5.3 The City of Savannah reserves the right to bid irrigation projects in the following categories:
- a) C.I.P. funded projects.

- b) Large design and installation projects expected to cost over \$10,000.

5.4 **Insurance:**

5.5 **Comprehensive General Liability:**

Contractor shall carry comprehensive general liability on an occurrence form with no “x, c or u” exclusions with the following minimum limits:

- Each occurrence - \$1,000,000
- Damage to Rented Premises - \$50,000
- Medical Expense - \$5,000
- Personal & Adv Injury - \$1,000,000
- General Aggregate - \$2,000,000
- Products – Completed Ops. Aggregate - \$2,000,000

General aggregate shall apply on a per project basis

Contractor will provide a Certificate of Insurance reflecting required coverage.

A waiver of subrogation endorsement to the policy in favor of the City shall also be provided and attached to the certificate

A (30) day notice of cancellation in favor of the City must be endorsed to policy and attached to the certificate

5.6 **Commercial Automobile Liability:**

The automobile policy must include coverage for owned, non-owned and hired automobiles

- Minimum limits are \$1,000,000
- Contractor will provide a Certificate of Insurance reflecting required coverage.
- A waiver of subrogation endorsement to the policy in favor of the City shall also be provided and attached to the certificate
- A (30) day notice of cancellation in favor of the City must be endorsed to policy and attached to the certificate

5.7 **Workers Compensation:**

Contractor shall carry a worker’s compensation policy including all statutory coverage required by Georgia state law

Minimum employer’s liability limits:

- \$500,000 each accident
- \$500, 000 each employee (disease)
- \$500, 000 policy limit (disease)

Contractor will provide a Certificate of Insurance reflecting required coverage.

A waiver of subrogation endorsement to the policy in favor of the City shall also be provided and attached to the certificate

A (30) day notice of cancellation in favor of the City must be endorsed to policy and attached to the certificate

5.8 Umbrella/Excess Liability:

Contractor shall carry an umbrella/excess liability policy which must follow form over underlying policies: general liability, auto liability and employer's liability.

Minimum limits: \$1,000,000 per occurrence
\$1,000,000 aggregate

Contractor will provide a Certificate of Insurance reflecting required coverage.

Waiver of subrogation endorsement to the policy in favor of the City shall also be provided and attached to the certificate

A (30) day notice of cancellation in favor of the City must be endorsed to policy and attached to the certificate

5.9 General:

All insurance shall be placed with Georgia admitted carriers with a current Best's rating of A(minus), X, or better

Any modifications to specifications must be approved by the City

5.10 The bid response must include the following documents in this order:

- Supplier Information Form
- Non-Discrimination Statement
- Proposed Schedule of MWBE Participation
- Other requested submittals as stated

All referenced documents must be completed and returned in their entirety to constitute a complete bid.

5.11 Bids may be submitted manually to the address listed in the bid documents or electronically via the supplier portal in sufficient time to ensure receipt by the Purchasing Department on or before 1:30 P.M. on the date specified in the web page listing for this event. Requested documentation may be attached to the bidder's response. A supplier guide for assistance in submitting responses can be found by clicking on the Important Documents tab of the Purchasing SavEPro webpage at: <http://www.savannahga.gov/cityweb/purchasingweb.nsf>

5.12 Original invoices should be sent to:

City of Savannah

Accounts Payable

P.O. Box 1027

Savannah, GA 31402

5.13 Vendor is responsible for determining and acknowledging any amendments issued in connection with this bid solicitation.

5.14 To submit and be awarded a bid; bidders must be registered as a bidder on the City of Savannah's website at www.savannahga.gov.

5.15 **Bonding:**

(Check where applicable)

(A) Each bidder shall post a bid bond, certified check or money order made payable to the City in the amount of 5% of the bid price. A company check is not acceptable. No bids shall be read or considered without a proper form of security.

(B) No bond, certified check, or U.S. Money Order is required.

(C) Bidder shall post a payment / performance bond, certified check or money order payable to the City in the amount of 100% of the bid price if awarded the purchase. Such bond(s) are due prior to contract execution as a guarantee that goods meet requirements of the contract including timely delivery, performance specifications and warranty requirements. Such bonds will also guarantee quality performance of services and timely payment of invoices to any subcontractors.

(D) Bidder shall post a performance bond, certified check or money order in the amount of % of the bid price if awarded the purchase. Such bond(s) are due prior to contract execution as a guarantee of timely delivery and that equipment, materials and /or goods are delivered according to specifications.

Whenever a bond is provided, it shall be executed by a surety authorized to do business in the State of Georgia, approved by the City, and must be executed on the attached forms. At the discretion of the City, other forms of security may be considered in lieu of a performance bond.

EXCEPTION SHEET

EVENT # 1015

If the commodity(ies) and/or services proposed in the response to this bid is in anyway different from that contained in this proposal or bid, the bidder is responsible to clearly identify by specification section number, all such differences in the space provided below. Otherwise, it will be assumed that bidder's offer is in total compliance with all aspects of the proposal or bid.

Below are the exceptions to the stated specifications:

Date

Signature

Company

Title

SUPPLIER INFORMATION FORM

City of Savannah Purchasing Dept

Business Location: (Check One)

3rd Floor, City Hall

____ Chatham County

P. O. Box 1027

____ City of Savannah

Savannah, Georgia 31402

____ Other

Name of Bidder: _____

Street Address: _____

City, State, Zip Code: _____

Phone: _____ Fax: _____

Email: _____

DO YOU HAVE A BUSINESS TAX CERTIFICATE ISSUED IN THE STATE OF GEORGIA?
(CHECK ONE) YES: _____ NO: _____

FROM WHAT CITY/COUNTY _____

TAX CERTIFICATE #: _____ FED TAX ID #: _____

INDICATE LEGAL FORM OF OWNERSHIP OF BIDDER (STATISTICAL PURPOSES ONLY):
CHECK ONE: _____ CORPORATION _____ PARTNERSHIP
_____ INDIVIDUAL _____ OTHER (SPECIFY: _____)

INDICATE OWNERSHIP STATUS OF BIDDER

(CHECK ONE):

____ NON-MINORITY OWNED

____ ASIAN AMERICAN

____ AFRICAN AMERICAN

____ AMERICAN INDIAN

____ HISPANIC

____ OTHER MINORITY

____ WOMAN (non-minority)

Describe _____

Do you plan to subcontract any portion of this project? Yes _____ No _____

If yes, please complete the attached schedule of MWBE participation. Also complete the schedule if you will be using any MWBE suppliers.

ITEM NUMBER	DESCRIPTION	ESTIMATED QTY	UNIT PRICE	TOTAL
1	Standard Labor Rate	500 Man Hours	\$_____ Per Man Hour=	
2	Equipment Trencher	100 Hours	\$_____ Per Hour=	
3	Parts	\$10,000	Percentage Discount From Manufacturer's List Price less %- _____=	

Total Gross Bid \$_____

PAYMENT TERMS: PLEASE CHECK ONE AND FILL IN BLANKS

(Minimum of 10 working days must be allowed for discount to be considered in bid award)

Less % Days Prompt Payment Discount (if offered)

Net - 30 Days (no discount offered) - 0 -

TOTAL NET BID \$_____

TIME REQUIRED FOR DELIVERY AFTER RECEIPT OF ORDER: DAYS

CONFIRM RECEIPT OF ANY ADDENDA ISSUED FOR THIS BID: ADDENDUM# _____

DATE: _____

I certify this Bid complies with the General and Specific Specifications and Conditions issued by the City except as clearly marked in the attached copy.

(Authorization Signature) Date

Please Print Name

NON-DISCRIMINATION STATEMENT

The bidder certifies that:

- (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 the City of Savannah or the performance of any contract resulting therefrom;
- (2) That it is and shall be the policy of this Company to provide equal opportunity to all business persons seeking to contract or otherwise interested in contracting with this Company, including those companies owned and controlled by racial minorities, cultural minorities, and women;
- (3) In connection herewith, We acknowledge and warrant that this Company has been made aware of, understands and agrees to take affirmative action to provide such companies with the maximum practicable opportunities to do business with this Company;
- (4) That this promise of non-discrimination as made and set forth herein shall be continuing in nature and shall remain in full force and effect without interruption;
- (5) That the promises of non-discrimination as made and set forth herein shall be and are hereby deemed to be made as part of and incorporated by reference into any contract or portion thereof which this Company may hereafter obtain and;
- (6) 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 City of Savannah 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.

Signature

Title

PROPOSED SCHEDULE OF M/WBE PARTICIPATION

Name of Bidder/Proposer: _____ EVENT # 1015
 Project Title _____

Name of M/WBE Participant	Name of Majority Owner	Telephone	Address (City, State)	Type of Work Sub-Contracted	Estimated Sub-contract Value	MBE or WBE
					%	
					%	
					%	
					%	

MBE Participation Value: _____ % Women Participation Value: _____ %

The undersigned will enter into a formal agreement with the M/WBE Subcontractors/Proposers identified herein for work listed in this schedule conditioned upon executing of a contract with the Mayor and Aldermen of the City of Savannah.

Joint Venture Disclosure

If the prime bidder is a joint venture, please describe below the nature of the joint venture and level of work and financial participation to be provided by the Minority/Female joint venture firm.

Joint Venture Firms	Level of Work	Financial Participation

Printed name (company officer or representative): _____
 Signature: _____
 Title: _____
 Telephone: _____ Fax: _____

Note: The Minority/Woman-Owned Business Office is available to identify qualified M/WBE's. Please contact the Office at (912) 651-3653. This form may be copied as needed. The City of Savannah has also posted a list of registered M/WBE's on its website @ www.savannahga.gov



QUALIFICATION OF BIDDERS

City of Savannah
 Director of Purchasing
 P.O. Box 1027
 Savannah, GA 31402

All Responses Should Be Typed Or Printed

Name of Applicant:	Date of Application
Address to which Bidding Forms and Purchase Orders are to be Mailed:	
Address to which Payments are to be Mailed:	How long in present business?
Type of Organization (Please mark one): <input type="checkbox"/> Individual <input type="checkbox"/> Partnership <input type="checkbox"/> Corporation	If Incorporated, Please Provide State of Incorporation:
Please Provide Names of Officers, Members, or Owners of Concern, Partnership, Etc, As Well As Years of Experience In This Field:	
(A) President:	(B) Vice-President:
(C) Secretary:	(D) Treasurer:
(E) Owners or Partners	(F) Other
Please Provide Your Current Dun and Bradstreet ⁷ Rating, If Available:	
Please List All Persons or Concerns Authorized to Sign Bids and Contracts In Your Name: (If Agent, Please So Specify):	
Name	Official Capacity

Contact Persons on Matters Concerning Bids and Contracts (If Agent, So Specify):

Name	Official Capacity	Telephone Number

How Many Years Has Your Company Been In Business?

How Long Has Your Company Been Established in Georgia?

Approximately How Many Hourly Employees Do You Plan to Employ on a Regular Basis for this Contract?

How Many Salaried Supervisory Employees Do You Plan to Employ on a Regular Basis for this Contract?

Please List Five (5) Clients in the Savannah-Chatham County Area, For Whom You Are Providing Services, for a Reference Check:

Name	Address	Start Date	Years of Service	Contact Person and Phone No.

Current Number of Employees	Amount of Inventory Carried In Own Warehouse	Floor Space (In Square Feet)		Net Worth	
		Manufacturing	Warehouse	Date	Amount

Attach Business Card Here	I certify that the information supplied herein (including all pages attached) is correct and
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Minority Vendor? Yes No

that neither the applicant nor any person (or concern) in any connection with the applicant as a principal or officer, is now barred or otherwise declared ineligible by any public agency from bidding for furnishing materials, supplies, or services to any agency thereof.

Signature of Person Authorized to Sign This Application