

BID SOLICITATION



City of Chattanooga
 101 East 11th Street, Suite G13
 Chattanooga, TN 37402

BID OPENING DATE AND TIME:
 27-SEP-16 at 2:00 PM
BID NUMBER: 304412

SEALED BIDS

Mail or submit two (2) signed copies of bid form to this office in the enclosed envelope. Retain one copy for your file.

BUYER:
PHONE #: (423) 643-7230
DELIVERY REQUIRED:

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City of Chattanooga
 101 East 11th Street, Suite G13
 Chattanooga, TN 37402

Item	Class-Item	Quantity	Unit	Unit Price	Total
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Requisition No.: 141835
 Ordering Dept.: Waste Resources
 Buyer: Geoffrey Hipp 423-643-7233

DESCRIPTION: Catenary Bar Screen per specifications

ATTACHMENTS:
 - Specifications
 - Affirmative Action Plan
 - Insurance Requirements
 - Iran Divestment Act
 - Standard Terms and Conditions:
 (<http://www.chattanooga.gov/purchasing/standard-terms-and-conditions>)

*** BIDS MUST BE RECEIVED NO LATER THAN ***
 ***** 2:00 PM ON SEPTEMBER 27, 2016 *****

PLEASE SUBMIT BIDS IN DUPLICATE INDICATING
 BID NUMBER (304412) ON OUTSIDE PACKAGING
 ALL ITEMS MUST BE QUOTED F.O.B. DESTINATION, FREIGHT ALLOWED.

NOTE: All bids received are subject to the terms and conditions contained herein and as listed in the above referenced website. The undersigned Bidder acknowledges having received, reviewed, and agrees to be bound to these terms and conditions, unless specific written exceptions are otherwise stated.

The City of Chattanooga reserves the right to reject any and/or all bids, waive any informalities in the bids received, and to accept any bid which in its opinion may be for the best interest of the city.

The City of Chattanooga will be non-discriminatory in the purchase of all goods and services on the basis of race, color, or national origin.

PLEASE PROVIDE US WITH THE FOLLOWING INFORMATION:
 Company Name _____
 Address _____
 Phone/Toll-Free No. _____
 Fax No. _____
 E-Mail Address _____
 Contact Person's Name _____
 Estimated Delivery _____
 Minority-Owned Business ___ Small Business ___ Veteran ___
 Minority Woman Owned Business ___ Disabled Veteran ___
 Women-Owned Business ___

NOTE: ALL BIDS RECEIVED ARE SUBJECT TO THE TERMS AND CONDITIONS

ALL BIDS MUST BE SIGNED – The undersigned offers the above quoted prices under the conditions contained herein.

The City is Exempt from all Federal and State Tax.
 Bids will be received at the above mentioned address.

TERMS OF PAYMENT: _____

TELEPHONE NUMBER: _____

COMPANY: _____
 SIGNATURE: _____
 NAME AND TITLE: _____

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 101 East 11th Street, Suite G13
 Chattanooga, TN 37402

Item	Class-Item	Quantity	Unit	Unit Price	Total
1	Delivery & Installation of Catenary Bar Screen per specifications	1	Each	_____	_____

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TELEPHONE NUMBER: _____

ALL BIDS MUST BE SIGNED – The undersigned offers the above quoted prices under the conditions contained herein.

COMPANY: _____

SIGNATURE: _____

NAME AND TITLE: _____

**SPECIFICATIONS FOR
PURCHASE AND INSTALLATION OF REPLACEMENT
19TH STREET PUMP STATION CATENARY BAR SCREEN
MOCCASIN BEND WASTEWATER TREATMENT SYSTEM
CHATTANOOGA, TENNESSEE
AUGUST, 2016**

1. GENERAL INFORMATION

This specification is for the purchase and installation of a 4'-0" W X 38'-9-3/8" D Catenary Bar Screen with 0.5" clear openings to replace the existing equipment. Contractor shall also supply and install a control panel and local push-button station. The 19th Street Pump Station was constructed in 1966 and is located at 1032 W 19th Street, Chattanooga, TN. A new E&I Catenary Bar Screen was installed in 1999. The City is taking bids on a firm price basis to supply and install replacement of the existing E&I Bar Screen that meets all specifications listed below. Contractor shall also be responsible for demo and disposal of old screen.

The project includes furnishing and installing one mechanically cleaned, single-shaft, catenary-type bar screen and appurtenances complete. It shall include, but is not limited to, structural, electrical and mechanical work.

The Catenary Bar Screen is to include, but not be limited to, bar rack, bar rack supports, dead plate, dead plate supports, rake flights, chains, shafts, sprockets, motors, controls, speed reducers, enclosures, discharge chute and structural steel support structure.

2. BACKGROUND

2.1 Existing Equipment

The existing 19th Street Pump Station pumps domestic, industrial and combined wastewater through three (3) pumps rated at 7,000 gpm each. The station capacity is rated at 20 mgd. The wet well size is 7'x33'x16'1". The wet well screen is a timer controlled catenary bar screen with a conveyor and a manually cleaned bar screen.

The Contractor shall provide all supervision, labor, tools and materials to perform the following:

1. Remove existing screen and all related appurtenances.
2. Provide and install new Catenary Bar Screen made of new stainless steel and all attaching hardware.

Contractor's price shall include all field installation, freight, delivery, material and labor.

2.2 City Responsibility

The City shall arrange to have the flow bypass the station during the project if necessary. The City shall drain and isolate the wet well, as needed. The Contractor will be responsible for any cleaning of the wet well that will be required. The City shall isolate and secure all supply valves and chemical feed lines, as needed.

The City shall de-energize all fans, pumps, motors, heaters, heat trace tape and other sources of electrical energy, as needed.

The City shall provide a laydown area in close proximity to the station large enough for all materials.

2.3 Pricing

The Contractor's time to complete the work shall be stated in the bid. This is the time that the pump station will be out of service.

Contractors are required to examine the pump station site by contacting the Waste Resources Division Maintenance Manager to arrange a site visit at 423-643-7088, extension 3336. All other questions should be directed to Geoffrey Hipp with the City's Purchasing Department at ghipp@chattanooga.gov.

The price shall include all freight and taxes of any kind.

All work shall comply with OSHA regulations. Contractor and onsite Contractor personnel shall comply with the City's Safety Directives at all times and are subject to monitoring by the onsite Occupational Safety Specialist.

The Contractor shall supply any required scaffolding, crane/boom truck or other rental equipment needed.

3. **GENERAL SPECIFICATIONS**

3.1 Scope of Work

Demo existing screen and provide and install:

- One (1) 4'-0" x 38'-9-3/8" D Catenary Bar Screen with 0.5" clear openings as manufactured by E&I Corporation, Fairfield Service Company, or equivalent;
- One (1) Control Panel; and
- One (1) Local push-button station.

The unit is to be complete with all machinery parts including:

- a. Head frame, 304 stainless steel;
- b. Head shaft, cold rolled, C-1018 carbon steel;
- c. Head shaft bearings, roller pillow block, cast iron;
- d. Head shaft sprockets, 10 tooth, 19.58 PD, split, cast iron;
- e. Screen chain , Std. WS-132, stainless steel;
- f. Drive assembly with TEFC motor, 1/2 HP, shaft mounted, explosion proof;
- g. Over load device, shear pin with limit switch, NEMA 7;
- h. Bar rack with 3/8" x 3/16" x 2-1/2" trapezoidal bars, 316 stainless steel;
- i. Bar rack supports, 304 stainless steel;
- j. Dead plate, 1/4" thick, 304 stainless steel;
- k. Wiper assembly, 304 stainless steel with hydraulic shock absorbers, PVC blade and stainless steel bearings;
- l. Return rails, 304 stainless steel;
- m. Rake assemblies with rake plates, 304 stainless steel;
- n. Discharge chute, 1/4" thick, 304 stainless steel;
- o. Enclosure, 14 gauge, 316 Stainless Steel
- p. Control panel, NEMA 4X;
- q. Local push-button station, NEMA 7;
- r. Fasteners, 316 stainless steel; and
- s. Anchor bolts, 316 stainless steel.

Contractor shall also include field paint, finish paint, field installation, field control wiring and handrails.

3.2 Existing Structure Note

The Contractor shall be solely responsible for measuring and providing the equipment supplier with accurate as built dimensions for all existing structures where new equipment will be installed. This information must be made available to the manufacturer in a timely manner to avoid delaying the equipment delivery schedules. In the event that dimensions are not provided or the provided dimensions are in error which results in modifications to either the equipment or the adjacent structures, the Contractor shall be solely responsible for all labor, materials and associated costs to correct the resulting situation.

3.3 Shop Painting

Painting – All ferrous surfaces will be prepared in accordance with SSPC-SP-10 and given one (1) shop coat of Tnemec Series 66-1211; 3.0-5.0 mils dry film thickness.

All standard machinery items, i.e. reducers, motors, controls, bearings, sprockets, couplings, etc. will be furnished with the Contractor's standard paint.

Aluminum, stainless steel, galvanized steel, plastic and other special materials will not be shop painted.

3.4 Fasteners

All fasteners will be Type 316 stainless steel.

3.5 Anchorage

All anchorage will be Type 316 stainless steel..

3.6 Scope of Work Clarifications

The Contractor shall be responsible for:

1. Unloading, hauling and/or storage;
2. All electrical controls, alarms and wiring;
3. Lubricating, oil or grease;
4. Piping;
5. Field painting;
6. Finish painting;
7. Welding;
8. Concrete work or erection;
9. Imbedded items;
10. Shims/Shim sets;
11. Labor and materials to repair defects in galvanized or painted surfaces caused by shipping, handling or installation; and
12. Tools.

4. **WARRANTY**

4.1 Description of the Work

The work covered by this section consists of furnishing all labor, materials, accessories, tools, equipment, transportation services and performing all operations required to install one (1) mechanically cleaned, Catenary Bar Screen. Screens utilizing lower sprockets will not be allowed.

4.2 Quality Assurance

At the Engineer's request, the equipment manufacturer shall certify to not less than five (5) years of experience in the application, design, manufacture and operating experience of mechanically cleaned screens, of the type specified, in wastewater treatment pump stations.

4.3 Submittals

- a. Complete shop drawings, including dimensions and materials shall be supplied for the Engineer's approval.
- b. Three (3) hard copies and one (1) electronic copy of complete operation and maintenance data on the equipment shall be supplied.
- c. Schedule of Values to be submitted after receipt of purchase order.
- d. Schedule of Values to be approved by Moccasin Bend prior to first payment request.

4.4 Warranty

The Contractor shall provide warranty for the equipment to be free of material or workmanship defect for one (1) year from the date of final completion. During that year, the Contractor shall, at no expense to the City, replace any part or parts which malfunction due to defective manufacture or installation.

4.5 Design Criteria

- a. The heavy duty, fully automatic mechanical self-cleaning bar screen shall be suitable for installation and operation in a flow channel measuring approximately 4'-0" wide by 8'-5-3/16" deep, as measured from the nominal elevation of the channel bottom one channel width behind its base. The angle of inclination shall be 78° from horizontal.
- b. The point at which all collected material will fall off the discharge chute shall be at least 2'-2" feet above the elevation of the Operating floor (this is the available clearance for the dumpster to collect the debris).
- c. Each screen shall be capable of passing a maximum of 20 mgd raw sewage with an upstream water depth of 6'-0", based on a nominal unit of width of 4'-0" wide.

4.6 Equipment

- a. Rakes shall approach channel invert from the upstream side of channel and rake upward at the upstream face of the screen with tines between the bars.

- b. Framework of screen shall be constructed of Grade 304 stainless steel and cross section with a minimum thickness $\frac{1}{4}$ inch. Various parts fastened by welding, riveting, or bolting shall be braced as necessary to insure a rigid structure. The side frames shall be minimum $\frac{1}{4}$ inch formed of structural shapes.
- c. Bolts and nuts shall be of Grade 316 stainless steel.
- d. Anchor bolts shall be $\frac{3}{4}$ inches Grade 316 stainless - furnished by contractor.
- e. Screen bars shall be constructed of Grade 316 stainless steel. The bar rack shall consist of trapezoidal stainless steel bars. The dimensions of the bars are: $\frac{3}{8}$ inch by $\frac{3}{16}$ inch by 2-1/2 inches (0.375 inch by 0.1875 inch by 2.5 inches). Round, teardrop or rectangular shaped bars will not be allowed. Bars shall be securely welded into place to form a structurally stable, permanent assembly designed to last the life of the screen. Bars shall be fastened to a dead plate that extends to the point of discharge. Bars shall extend a minimum of 18 inches above the maximum water level. The screen field shall be accurately constructed to give a clear opening of 0.5 inch between the bars. There shall be no space wider than the opening between the bars which would permit passage of larger solids through the screen.
- f. Dead plate of Grade 304 stainless steel plate, a minimum of $\frac{1}{4}$ inch thick shall extend to the point of discharge and shall have 6 inch skirts to help contain the screenings. Dead plate shall be true and flat such that a close clearance between the raking tines and the plate can be maintained during the cleaning cycle.
- g. The rakes shall consist of a channel section, 7 inches in depth with a $\frac{1}{2}$ inch thick stainless steel rake plate attached with teeth machined to clean the entire width of the bar rack. The raking tines shall have the tooth profile precision cut of sufficient thickness and depth to insure adequate stiffness and strength to cope with the specified duty cycle. The rakes shall be attached to the chain at approximately every 7 feet. The rakes shall clean the bars from the upstream side of the screen. The rakes shall be fabricated from stainless steel Grade 304.

The rake tines shall penetrate into the screen bar spacing to insure that screenings are completely cleared during each lifting operation. During each cleaning stroke, the raking tines shall engage into the bottom of the bar screen grid at the channel invert. All moving equipment shall be fully replaceable without having to remove the screen from the channel.

- h. Screenings transported to the top of the screen shall be discharged positively by means of a scraper mechanism to the discharge chute. The scraper mechanism shall be fitted with shock absorbers that allow the scraper to return to its resting position smoothly without any shock. A scraper blade made of PVC and that is adjustable and reversible shall be provided on the scraper.
- i. The drive unit shall mount to the screen head shaft and shall be a helical-bevel gear reducer running in an oil bath.
- j. The head shaft bearings shall be double row, tapered roller bearings with seals and lubrication fittings. The bearings shall have collars to position the shafting.
- k. Chains shall be rollerless type, WS132 welded chain grade 304 stainless steel. Materials other than Grade 304 stainless steel shall not be allowed. The average ultimate strength of the chain shall be minimum 78,000 pound-force. Chain pins shall be stainless steel and hardened.
- l. Return rails shall be provided to guide the chain and rakes to the bottom of the channel. The return rails shall be C7 x 9.8 structural channels designed specifically for this project. The return rails shall be manufactured of Grade 304 stainless steel.
- m. The drive motor shall be maximum 2 HP, explosion proof rated for Class 1, Division 1, Group D and Class F insulation. The motor shall be an inverter duty rated motor with a minimum 1.15 service factor, rated for continuous duty and designed to operate on 230/460 volts, 3 phase, 60 hertz and be provided with a shear pin device to protect the unit in case of any overload. (Enclosure shall be rated applicable for the specific installation environment.) The drive unit, including the reduction gearbox, shall be directly shaft-mounted and shall be positioned to facilitate maintenance work. The reducer shall be a helical-bevel unit running in an oil bath. The reducer shall have a service factor of 1.25 for 24-hour operation.

- n. The drive assembly shall be designed to operate the rakes at approximately 10 feet per minute. The rake and chain system shall be designed to ride over any obstruction that may become impinged upon the bar rack. The system shall be capable of moving out over the obstruction and once past it, moving back to the bar rack to continue cleaning. Systems with chain or links that can only flex in one direction shall not be allowed.
- o. A discharge chute shall be provided for the screen to divert screenings discharged from the screen to the dumpster. The discharge chute shall be ¼ inch thick and made of Grade 304 stainless steel. The discharge chute shall be mounted at an angle of 30 degrees. Panels are positioned on both sides to protect from splashing.
- p. A screen Enclosure shall be provided to fully cover the screen at the operation floor level. The enclosure shall be 14 gauge, 316 stainless steel with suitable latching, hinged access doors on both sides for inspection and maintenance.

4.7 BAR SCREEN CONTROL PANEL

- a. A Bar Screen Main Control Panel shall be furnished, completely pre-wired and tested, requiring only wall mounting and connection to external wiring in the field by the contractors approved electrical subcontractor. The Control Panel shall include all equipment required to control the bar screen as specified herein. The panel shall be located in a non-classified area where no corrosive gasses are present.
- b. Control Panel enclosure shall be sized as required to house equipment and shall be suitable for wall mounting or mounting to strut-type supports. Enclosure shall be rated NEMA 4X. The enclosure shall contain a main disconnect switch with a NEMA 4X external operating handle.
- c. The screen shall be controlled by a PLC (programmable logic controller). The PLC shall be used to control the operation of the screen as described herein. The PLC shall include discrete and analog inputs and outputs as required. The PLC shall have a built-in keypad display unit and be programmed to display fault and status information as well as functions for allowing the user to modify setup parameters such as timer values and level set points.

- d. The screen shall be controlled in synchronization with differential level sensors. Upon reaching a predetermined differential set point, the screen shall begin operation and shall shut down after a predetermined time if the differential level is less than the predetermined set point.
- e. When an over current is detected the screen shall automatically stop.
- f. The control panel shall have a Red Lion G303 OIT (Operator Interface Terminal) to allow push button adjustment of counter values, timers and level set points without connecting to the PLC. The OIT shall be rated NEMA 4x and provide troubleshooting information.
- g. Door mounted NEMA 4X indicating lights shall be provided to indicate running and alarm status of the bar screen. Legend plates and a door mounted Alarm Rest push button shall also be provided.
- h. A separate Local Operator Station rated NEMA 7 shall be provided. The local panel shall include Hand/Off/Automatic and Forward/Off/Jog-Reverse 3-position switches and an Emergency Stop mushroom push button.
- i. A separate local operator station rated NEMA 7 shall be provided. This local station shall include a Hand REV/Hand Off/Hand FWD 3-position switch and an Emergency Stop mushroom PB. The three position switch shall be spring return from the left and maintained in the center and right positions. The PLC shall limit operation to a maximum of two (2) seconds in the reverse direction each time the switch is operated.

4.8 SPARE PARTS

The following minimum recommended spare parts shall be provided for mechanically cleaned screens.

These items will be delivered to the Warehouse located at Moccasin Bend Wastewater Treatment Plant, 455 Moccasin Bend Road, Chattanooga, TN 37405.

1. Ten (10) shear pins;
2. Two (2) replacement wiper blades;
3. Two (2) head shaft sprockets, 10T;

4. Two (2) 15' strands carrying chain with two (2) rake mounting pads each;
5. Two (2) bearings, 3-7/16" diameter head shaft;
6. Two (2) bearings, 1" diameter wiper shaft;
7. One (1) rake assembly;
8. One (1) set of gaskets and seals for reducer;
9. One (1) complete strand drive chain;

4.9 DELIVERY INSTRUCTIONS

1. Delivery location for Catenary Bar Screen will be made at the following location:
 - a. 19th Street Pump Station
1032 W 19th Street
Chattanooga, TN
2. Vendor shall contact the following City staff members to coordinate delivery:
 - a. Plant Maintenance Manger
423-643-7088 Ext. 3336
jspence@chattanooga.gov
 - b. Inventory Coordinator
423-643-7088 Ext. 3260
MBAcctspayable@chattanooga.gov .
3. Vendor must reference City of Chattanooga Purchase Order Number assigned to this order on all correspondence and delivery documentation, including, but not limited to:
 - a. Packing Slip
 - b. Delivery Ticket
 - c. Bill of Lading
 - d. Shipper's Instructions
 - e. Manuals and Instructions.
4. Delivery documentation must accompany all shipments and signed copies of same must be attached to Invoice.
5. Invoice must reference City of Chattanooga Purchase Order Number.

5. EXECUTION

5.1 GENERAL

- a. Installation shall be in strict accordance with these specifications and requirements of the manufacturer's written instructions and shop drawings. It is the Contractor's responsibility to verify the accuracy of all necessary dimensions in the field to ensure compatibility with the specifications and equipment.
- b. The Catenary Bar Screen manufacturer shall inspect the installation of the bar screen to assure that the unit has been installed in accordance with the manufacturers written recommendations.
- c. In the event that equipment is supplied which is different than specified, it shall be the responsibility of the Contractor to coordinate and make all changes to related structures, controls, drawings and documentation. All changes must be reviewed and approved by the Engineer prior to any installation of equipment. In addition, all costs associated with such changes, including additional time required for review of the changes by the Engineer, shall be borne by the Contractor.

5.2 EQUIPMENT TESTING

The coarse screen shall be started up and tested following installation inspection to ensure satisfactory operation. The screen shall be run under normal flow conditions to assure the specified performance is met.

5.3 MANUFACTURER'S SERVICES

Supplier will provide the services of a factory-trained representative for one (1) trip of two (2) days to check the installation, start up the coarse screen system and controller and to train the plant operators on screen operation and maintenance. The factory representative will have complete knowledge of proper installation, operation and maintenance of equipment supplied. The representative will inspect the final installation and supervise a start-up test of the equipment.

Affirmative Action Plan

The City of Chattanooga is an equal opportunity employer and during the performance of this Contract, the Contractor agrees to abide by the equal opportunity goals of the City of Chattanooga as follows:

1. The Contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, national origin, or handicap. The Contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, color, religion, sex, national origin, or handicap. Such action shall include, but not be limited to, the following: employment, upgrading, demotion or transfer, recruitment or recruitment advertising, layoff or termination, rates of pay or other forms of compensation, and selection for training including apprenticeship. The Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices setting forth the provisions of this nondiscrimination clause.
2. The Contractor will, in all solicitations or advertisements for employees placed by or on behalf of the Contractor, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, or handicap.
3. The Contractor will send to each labor union or representative of workers with which he/she has a collective bargaining agreement or other contract or understanding, a notice advising said labor union or workers' representatives of the Contractor's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.
4. During the term of all construction contracts or subcontracts in excess of \$10,000 to be performed for the City of Chattanooga, the following non-discriminatory hiring practices shall be employed to provide employment opportunities for minorities and women:
 - a. All help wanted ads placed in newspapers or other publications shall contain the phrase "Equal Employment Opportunity Employer".
 - b. Seek and maintain contracts with minority groups and human relations organizations as available.
 - c. Encourage present employees to refer qualified minority group and female applicants for employment opportunities.
 - d. Use only recruitment sources which state in writing that they practice equal opportunity. Advise all recruitment sources that qualified minority group members and women will be sought for consideration for all positions when vacancies occur.

5. Minority statistics are subject to audit by City of Chattanooga staff or other governmental agency.
6. The Contractor agrees to notify the City of Chattanooga of any claim or investigation by State or Federal agencies as to discrimination.

(Signature of Contractor)

(Title and Name of Company)

(Date)

REQUIREMENTS FOR INSURANCE COVERAGE

Contractor shall purchase and maintain during the life of this Agreement, insurance coverage which will satisfactorily insure Contractor against claims and liabilities which arise because of the execution of this Agreement, with the minimum insurance coverage as follows:

- a. Commercial General Liability Insurance, with a limit of \$1,000,000 for each occurrence and \$2,000,000 in the general aggregate.
- b. Automobile Liability Insurance, with a limit of \$1,000,000 for each accident, combined single limit for bodily injury and property damage.
- c. Worker's Compensation Insurance and Employer's Liability Insurance, in accordance with statutory requirements, with a limit of \$500,000 for each accident.
- d. Professional Liability Insurance, with a limit of \$1,000,000 for each claim and aggregate.

If any of the above cited policies expire during the life of this Agreement, it is the Contractor's responsibility to forward renewal Certificates within ten (10) days after the renewal date containing all the aforementioned insurance provisions.

Certificates must specifically cite the following provisions:

- i. City of Chattanooga, its agents, representatives, officers, directors, officials and employees must be named an Additional Insured under the following policies:
 - a) Commercial General Liability
 - b) Auto Liability
 - c) Worker's Compensation Insurance and Employer's Liability Insurance
 - d) Professional Liability Insurance
- ii. Contractor's insurance must be primary insurance as respects performance of subject contract.
- iii. All policies, except Professional Liability Insurance, if applicable, waives rights of recovery (subrogation) against City of Chattanooga, its agents, representatives, officers, directors, officials and employees for any claims arising out of work or services performed by Contractor under this Agreement.

Chapter No. 817 (HB0261/SB0377). "Iran Divestment Act" enacted.

Vendor Disclosure and Acknowledgement

By submission of this bid, each bidder and each person signing on behalf of any bidder certifies, and in the case of a joint bid each party thereto certifies as to its own organization, under penalty of perjury, that to the best of its knowledge and belief that each bidder is not on the list created pursuant to § 12-12-106.

(SIGNED) _____

(PRINTED NAME) _____

(BUSINESS NAME) _____

(DATE) _____

For further information, please see website:

https://www.tn.gov/assets/entities/generalservices/cpo/attachments/List_of_persons_pursuant_to_Tenn._Code_Ann._12-12-106,_Iran_Divestment_Act-July.pdf