



# CITY OF AUSTIN, TEXAS

## Purchasing Office INVITATION FOR BID (IFB)

**SOLICITATION NO:** NST0001

**DATE ISSUED:** JUNE 9, 2014

**REQUISITION NO.:** MAX34092

**COMMODITY CODE:** 89082, 8908255,  
82081, 8208155

**FOR CONTRACTUAL AND TECHNICAL  
ISSUES CONTACT THE FOLLOWING  
AUTHORIZED CONTACT PERSON:**

NICOLE TURNER

Senior Buyer

**Phone:** (512) 322-6586

**E-Mail:** nicole.turner@austinenergy.com

**COMMODITY/SERVICE DESCRIPTION:** SLIDE GATE  
REPLACEMENT

**PRE-BID CONFERENCE TIME AND DATE:** 1:00PM ON JUNE 20,  
2014

**LOCATION:** 8003 Decker Lane, Austin, TX 78724

**BID DUE PRIOR TO:** 2:00PM ON JULY 1, 2014

**BID OPENING TIME AND DATE:** 2:15PM ON JULY 1, 2014

**LOCATION:** MUNICIPAL BUILDING, 124 W 8<sup>th</sup> STREET  
RM 308, AUSTIN, TEXAS 78701

### LIVE BID OPENING ONLINE:

For information on how to attend the Bid Opening online, please select  
this link:

<http://www.austintexas.gov/department/bid-opening-webinars>

**When submitting a sealed Offer and/or Compliance Plan, use the proper address for the type of service desired,  
as shown below:**

<b>P.O. Address for US Mail</b>	<b>Street Address for Hand Delivery or Courier Service</b>
City of Austin	City of Austin, Municipal Building
Purchasing Office-Response Enclosed	Purchasing Office-Response Enclosed
P.O. Box 1088	124 W 8 <sup>th</sup> Street, Rm 310
Austin, Texas 78767-8845	Austin, Texas 78701
	Reception Phone: (512) 974-2500

**To ensure prompt delivery, all packages SHALL BE CLEARLY MARKED ON THE OUTSIDE "Purchasing Office-Response Enclosed" along with the offeror's name & address, solicitation number and due date and time. See Section 0200 Solicitation Instructions for more details.**

**All Offers (including Compliance Plans) that are not submitted in a sealed envelope or container will not be considered.**

The Vendor agrees, if this Offer is accepted within 120 calendar days after the Due Date, to fully comply in strict accordance with the Solicitation, specifications and provisions attached thereto for the amounts shown on the accompanying Offer.

**SUBMIT 1 ORIGINAL, 2 COPIES, AND 1 ELECTRONIC COPY (CD/FLASH) OF YOUR RESPONSE**

**\*\*\*SIGNATURE FOR SUBMITTAL REQUIRED ON PAGE 3 OF THIS DOCUMENT\*\*\***

This solicitation is comprised of the following required sections. Please ensure to carefully read each section including those incorporated by reference. By signing this document, you are agreeing to all the items contained herein and will be bound to all terms.

SECTION NO.	TITLE	PAGES
0100	STANDARD PURCHASE DEFINITIONS	*
0200	STANDARD SOLICITATION INSTRUCTIONS	*
0300	STANDARD PURCHASE TERMS AND CONDITIONS	*
0400	SUPPLEMENTAL PURCHASE PROVISIONS	4
0500	SCOPE OF WORK W/ ATTACHMENTS	15
0600	BID SHEET – Must be completed and returned with Offer	1
0605	LOCAL BUSINESS PRESENCE IDENTIFICATION FORM – Complete & return	1
0700	REFERENCE SHEET – Complete and return	2
0800	NON-DISCRIMINATION CERTIFICATION	*
0805	NON-SUSPENSION OR DEBARMENT CERTIFICATION	*
0810	NON-COLLUSION, NON-CONFLICT OF INTEREST, AND ANTI-LOBBYING CERTIFICATION	*
0835	NONRESIDENT BIDDER PROVISIONS – Complete and return	1

**\* Documents are hereby incorporated into this Solicitation by reference, with the same force and effect as if they were incorporated in full text. The full text versions of these Sections are available, on the Internet at the following online address:**

[http://www.austintexas.gov/financeonline/vendor\\_connection/index.cfm#STANDARDBIDDOCUMENTS](http://www.austintexas.gov/financeonline/vendor_connection/index.cfm#STANDARDBIDDOCUMENTS)

**If you do not have access to the Internet, you may obtain a copy of these Sections from the City of Austin Purchasing Office located in the Municipal Building, 124 West 8<sup>th</sup> Street, Room #308 Austin, Texas 78701; phone (512) 974-2500. Please have the Solicitation number available so that the staff can select the proper documents. These documents can be mailed, expressed mailed, or faxed to you.**

**I agree to abide by the City's MBE/WBE Procurement Program Ordinance and Rules. In cases where the City has established that there are no M/WBE subcontracting goals for a solicitation, I agree that by submitting this offer my firm is completing all the work for the project and not subcontracting any portion. If any service is needed to perform the contract that my firm does not perform with its own workforce or supplies, I agree to contact the Small and Minority Business Resources Department (SMBR) at (512) 974-7600 to obtain a list of MBE and WBE firms available to perform the service and am**

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**Standard Bid Document Tab on the Vendor Connection Website:**

[http://www.austintexas.gov/financeonline/vendor\\_connection/index.cfm#STANDARDBIDDOCUMENTS](http://www.austintexas.gov/financeonline/vendor_connection/index.cfm#STANDARDBIDDOCUMENTS)

**If I am awarded the contract I agree to continue complying with the City's MBE/WBE Procurement Program Ordinance and Rules including contacting SMBR if any subcontracting is later identified.**

**The undersigned, by his/her signature, represents that he/she is submitting a binding offer and is authorized to bind the respondent to fully comply with the solicitation document contained herein. The Respondent, by submitting and signing below, acknowledges that he/she has received and read the entire document packet sections defined above including all documents incorporated by reference, and agrees to be bound by the terms therein.**

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

Federal Tax ID No.: \_\_\_\_\_

Printed Name of Officer or Authorized Representative: \_\_\_\_\_

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

Signature of Officer or Authorized Representative: \_\_\_\_\_

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

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

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

**\* Completed Bid Sheet, section 0600 must be submitted with this Offer sheet to be considered for award**

**Section 0605: Local Business Presence Identification**

A firm (Offeror or Subcontractor) is considered to have a Local Business Presence if the firm is headquartered in the Austin Corporate City Limits, or has a branch office located in the Austin Corporate City Limits in operation for the last five (5) years. The City defines headquarters as the administrative center where most of the important functions and full responsibility for managing and coordinating the business activities of the firm are located. The City defines branch office as a smaller, remotely located office that is separate from a firm’s headquarters that offers the services requested and required under this solicitation.

**OFFEROR MUST SUBMIT THE FOLLOWING INFORMATION FOR EACH LOCAL BUSINESS (INCLUDING THE OFFEROR, IF APPLICABLE) TO BE CONSIDERED FOR LOCAL PRESENCE.**

*NOTE: ALL FIRMS MUST BE IDENTIFIED ON THE MBE/WBE COMPLIANCE PLAN OR NO GOALS UTILIZATION PLAN.*

**\*USE ADDITIONAL PAGES AS NECESSARY\***

**OFFEROR:**

Name of Local Firm						
Physical Address						
Is Firm located in the Corporate City Limits? (circle one)	Yes			No		
In business at this location for past 5 yrs?	Yes			No		
Location Type:	Headquarters	Yes	No	Branch	Yes	No

**SUBCONTRACTOR(S):**

Name of Local Firm						
Physical Address						
Is Firm located in the Corporate City Limits? (circle one)	Yes			No		
In business at this location for past 5 yrs?	Yes			No		
Location Type:	Headquarters	Yes	No	Branch	Yes	No

**SUBCONTRACTOR(S):**

Name of Local Firm						
Physical Address						
Is Firm located in the Corporate City Limits? (circle one)	Yes			No		

In business at this location for past 5 yrs.?	Yes			No		
Location Type:	Headquarters	Yes	No	Branch	Yes	No

**Section 0700: Reference Sheet**

Please include the following information if required in solicitation:

Responding Company Name \_\_\_\_\_

1. Company's Name \_\_\_\_\_  
 Name and Title of Contact \_\_\_\_\_  
 Present Address \_\_\_\_\_  
 City, State, Zip Code \_\_\_\_\_  
 Telephone Number (\_\_\_\_) \_\_\_\_\_ Fax Number (\_\_\_\_) \_\_\_\_\_  
 Email Address \_\_\_\_\_

2. Company's Name \_\_\_\_\_  
 Name and Title of Contact \_\_\_\_\_  
 Present Address \_\_\_\_\_  
 City, State, Zip Code \_\_\_\_\_  
 Telephone Number (\_\_\_\_) \_\_\_\_\_ Fax Number (\_\_\_\_) \_\_\_\_\_  
 Email Address \_\_\_\_\_

3. Company's Name \_\_\_\_\_  
 Name and Title of Contact \_\_\_\_\_  
 Present Address \_\_\_\_\_  
 City, State, Zip Code \_\_\_\_\_  
 Telephone Number (\_\_\_\_) \_\_\_\_\_ Fax Number (\_\_\_\_) \_\_\_\_\_  
 Email Address \_\_\_\_\_

4. Company's Name \_\_\_\_\_  
Name and Title of Contact \_\_\_\_\_  
Present Address \_\_\_\_\_  
City, State, Zip Code \_\_\_\_\_  
Telephone Number (\_\_\_\_)\_\_\_\_\_ Fax Number (\_\_\_\_)\_\_\_\_\_  
Email Address \_\_\_\_\_

5. Company's Name \_\_\_\_\_  
Name and Title of Contact \_\_\_\_\_  
Present Address \_\_\_\_\_  
City, State, Zip Code \_\_\_\_\_  
Telephone Number (\_\_\_\_)\_\_\_\_\_ Fax Number (\_\_\_\_)\_\_\_\_\_  
Email Address \_\_\_\_\_

**Section 0835: Non-Resident Bidder Provisions**

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

- A. Bidder must answer the following questions in accordance with Vernon's Texas Statutes and Codes Annotated Government Code 2252.002, as amended:

Is the Bidder that is making and submitting this Bid a "Resident Bidder" or a "non-resident Bidder"?

Answer: \_\_\_\_\_

- (1) Texas Resident Bidder- A Bidder whose principle place of business is in Texas and includes a Contractor whose ultimate parent company or majority owner has its principal place of business in Texas.
- (2) Nonresident Bidder- A Bidder who is not a Texas Resident Bidder.

- B. If the Bidder id a "Nonresident Bidder" does the state, in which the Nonresident Bidder's principal place of business is located, have a law requiring a Nonresident Bidder of that state to bid a certain amount or percentage under the Bid of a Resident Bidder of that state in order for the nonresident Bidder of that state to be awarded a Contract on such bid in said state?

Answer: \_\_\_\_\_ Which State: \_\_\_\_\_

- C. If the answer to Question B is "yes", then what amount or percentage must a Texas Resident Bidder bid under the bid price of a Resident Bidder of that state in order to be awarded a Contract on such bid in said state?

Answer: \_\_\_\_\_

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The following Supplemental Purchasing Provisions apply to this solicitation:

1. **EXPLANATIONS OR CLARIFICATIONS:** (reference paragraph 5 in Section 0200)

All requests for explanations or clarifications must be submitted in writing to the Purchasing Office by 8:00 a.m. on June 23, 2014. Submissions may be made via email to [nicole.turner@austinenergy.com](mailto:nicole.turner@austinenergy.com)

2. **PRE-BID CONFERENCE:** There will be a Pre-Bid Conference to be held at 1:00 p.m. on JUNE 20, 2014 at the Decker Power Plant, 8003 Decker Lane, Austin, TX 78724. All prospective bidders are encouraged to attend.

3. **INSURANCE:** Insurance is required for this solicitation.

A. **General Requirements:** See Section 0300, Standard Purchase Terms and Conditions, paragraph 32, entitled Insurance, for general insurance requirements.

- i. The Contractor shall provide a Certificate of Insurance as verification of coverages required below to the City at the below address prior to contract execution and within 14 calendar days after written request from the City. Failure to provide the required Certificate of Insurance may subject the Offer to disqualification from consideration for award
- ii. The Contractor shall not commence work until the required insurance is obtained and until such insurance has been reviewed by the City. Approval of insurance by the City shall not relieve or decrease the liability of the Contractor hereunder and shall not be construed to be a limitation of liability on the part of the Contractor.
- iii. The Contractor must also forward a Certificate of Insurance to the City whenever a previously identified policy period has expired, or an extension option or holdover period is exercised, as verification of continuing coverage.
- iv. The Certificate of Insurance, and updates, shall be mailed to the following address, and the Contract Manager:

City of Austin  
Purchasing Office  
P.O. Box 1088  
Austin, Texas 78767

B. **Specific Coverage Requirements:** The Contractor shall at a minimum carry insurance in the types and amounts indicated below for the duration of the Contract, including extension options and hold over periods, and during any warranty period. These insurance coverages are required minimums and are not intended to limit the responsibility or liability of the Contractor.

- i. **Worker's Compensation and Employers' Liability Insurance:** Coverage shall be consistent with statutory benefits outlined in the Texas Worker's Compensation Act (Section 401). The minimum policy limits for Employer's Liability are \$250,000 bodily injury each accident, \$1,000,000 bodily injury by disease policy limit and \$250,000 bodily injury by disease each employee.
  - (1) The Contractor's policy shall apply to the State of Texas and include these endorsements in favor of the City of Austin:
    - (a) Waiver of Subrogation, Form WC420304, or equivalent coverage
    - (b) Thirty (30) days Notice of Cancellation, Form WC420601, or equivalent coverage
- ii. **Commercial General Liability Insurance:** The minimum bodily injury and property damage per occurrence are \$1,000,000 for coverages A (Bodily Injury and Property Damage) and B (Personal and Advertising Injury).

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- (1) The policy shall contain the following provisions:
  - (a) Contractual liability coverage for liability assumed under the Contract and all other Contracts related to the project.
  - (b) Contractor/Subcontracted Work.
  - (c) Products/Completed Operations Liability for the duration of the warranty period.
  - (d) If the project involves digging or drilling provisions must be included that provide Explosion, Collapse, and/or Underground Coverage.
- (2) The policy shall also include these endorsements in favor of the City of Austin:
  - (a) Waiver of Subrogation, Endorsement CG 2404, or equivalent coverage
  - (b) Thirty (30) days Notice of Cancellation, Endorsement CG 0205, or equivalent coverage
  - (c) The City of Austin listed as an additional insured, Endorsement CG 2010, or equivalent coverage
- iii. **Business Automobile Liability Insurance:** The Contractor shall provide coverage for all owned, non-owned and hired vehicles with a minimum combined single limit of \$500,000 per occurrence for bodily injury and property damage. Alternate acceptable limits are \$250,000 bodily injury per person, \$1,000,000 bodily injury per occurrence and at least \$100,000 property damage liability per accident.
  - (1) The policy shall include these endorsements in favor of the City of Austin:
    - (a) Waiver of Subrogation, Endorsement CA0444, or equivalent coverage
    - (b) Thirty (30) days Notice of Cancellation, Endorsement CA0244, or equivalent coverage
    - (c) The City of Austin listed as an additional insured, Endorsement CA2048, or equivalent coverage.

C. **Endorsements:** The specific insurance coverage endorsements specified above, or their equivalents must be provided. In the event that endorsements, which are the equivalent of the required coverage, are proposed to be substituted for the required coverage, copies of the equivalent endorsements must be provided for the City's review and approval.

4. **INVOICES and PAYMENT:** (reference paragraphs 12 and 13 in Section 0300)

A. Invoices shall contain a unique invoice number and the information required in Section 0300, paragraph 12, entitled "Invoices." Invoices received without all required information cannot be processed and will be returned to the vendor.

Invoices shall be mailed to the below address:

	City of Austin
Department	Austin Energy
Attn:	Rogelio Zavala
Address	8003 Decker Lane
City, State Zip Code	Austin, TX 78724

B. The Contractor agrees to accept payment by check or Electronic Funds Transfer (EFT) for all goods and/or services provided under the Contract.

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**5. WORKFORCE SECURITY CLEARANCE AND IDENTIFICATION (ID):**

- A. Contractors are required to obtain a certified criminal background report with fingerprinting (referred to as the "report") for all persons performing on the contract, including all Contractor, Subcontractor, and Supplier personnel (for convenience referred to as "Contractor's personnel").
- B. The report may be obtained by reporting to one of the below governmental entities, submitting to fingerprinting and requesting the report [requestors may anticipate a two-week delay for State reports and up to a four to six week delay for receipt of a Federal report].
  - i. Texas Department of Public Safety for any person currently residing in the State of Texas and having a valid Texas driver's license or photo ID card;
  - ii. The appropriate governmental agency from either the U.S. state or foreign nation in which the person resides and holds either a valid U.S. state-issued or foreign national driver's license or photo ID card; or
  - iii. A Federal Agency. A current Federal security clearance obtained from and certified by a Federal agency may be substituted.
- C. Contractor shall obtain the reports at least 30 days prior to any onsite work commencement. Contractor also shall attach to each report the project name, Contractor's personnel name(s), current address(es), and a copy of the U.S. state-issued or foreign national driver's license or photo ID card.
- D. Contractor shall provide the City a Certified Criminal Background Report affirming that Contractor has conducted required security screening of Contractor's personnel to determine those appropriate for execution of the work and for presence on the City's property. A list of all Contractor Personnel requiring access to the City's site shall be attached to the affidavit.
- E. Upon receipt by the City of Contractor's affidavit described in (D) above and the list of the Contractor's personnel, the City will provide each of Contractor's personnel a contractor ID badge that is required for access to City property that shall be worn at all times by Contractor's personnel during the execution of the work.
- F. The City reserves the right to deny an ID badge to any Contractor personnel for reasonable cause, including failure of a Criminal History background check. The City will notify the Contractor of any such denial no more than twenty (20) days after receipt of the Contractor's reports. Where denial of access by a particular person may cause the Contractor to be unable to perform any portion of the work of the contract, the Contractor shall so notify the City's Contract Manager, in writing, within ten (10) calendar days of the receipt of notification of denial.
- G. Contractor's personnel will be required to wear the ID badge at all times while on the work site. Failure to wear or produce the ID badge may be cause for removal of an individual from the work site, without regard to Contractor's schedule. Lost ID badges shall be reported to the City's Contract Manager. Contractor shall reimburse the City for all costs incurred in providing additional ID badges to Contractor Personnel.
- H. ID badges to enter and/or work on the City property may be revoked by the City at any time. ID badges must be returned to the City at the time of project completion and acceptance or upon removal of an individual from the work site.
- I. Contractor is not required to obtain reports for delivery personnel, including but not limited to FedEx, UPS, Roadway, or other materials delivery persons, however all delivery personnel must present

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company/employer-issued photo ID and be accompanied by at least one of Contractor's personnel at all times while at the work site.

- J. The Contractor shall retain the reports and make them available for audit by the City during regular business hours (reference paragraph 17 in Section 0300, entitled Right to Audit).

6. **WORKING ON OR NEAR ENGERGIZED EQUIPMENT – ARC FLASH PROTECTION (reference Section 0300 Paragraph 11. Compliance With Health, Safety, and Environmental Regulations)**: Contractor's employees shall wear at all times the proper personal protective equipment and clothing required for the head, face, torso, arms, hands, and lower body that provides a minimum Arc Thermal Protection Value (ATPV) of 12 calories per square centimeter (cal/cm<sup>2</sup>) when working on or near energized electrical equipment, or greater, if required by the NFPA Standard 70E and/or Article 410 of the NESC for the work being performed.

7. **PROJECT MANAGER**: The following person is designated as Project Manager, and will act as the contact point between the City and the Contractor during the term of the Contract:

Rogelia Zavala

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Austin Energy

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Decker Power Plant

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(512) 505-7345

8. **CONTRACT MANAGER**: The following person is designated as Contract Manager, and will act as the contact point between the City and the Contractor during the term of the Contract:

Ray Moncada

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(512) 322-6190

\*Note: The above listed Contract Manager is not the authorized Contact Person for purposes of the **NON-COLLUSION, NON-CONFLICT OF INTEREST, AND ANTI-LOBBYING Provision** of this Section; and therefore, contact with the Contract Manager is prohibited during the no contact period.

**SCOPE OF WORK**  
**Replacement of Circulating Water Intake Slide Gates**  
**For**  
**Decker Creek Power Station, Unit #1**  
**Solicitation No.: IFB NST0001**

**1. PURPOSE**

The City of Austin Electric Utility Department, dba Austin Energy, hereinafter referred to as AE, seeks Bids in response to this Invitation for Bid (IFB) from an experienced Contractor qualified to provide parts and installation of two (2) Water Intake Slide Gates on Decker Unit #1 Intake Canal at the Decker Creek Power Station (Decker).

**2. SCOPE**

2.1. Contractor shall provide the parts and perform the services listed below:

**2.1.1 Replacement Parts and Accessories**

2.1.1.1. Gate - Two (2) 120" x 120" fabricated slide gates, OEM—Armco Model #35-05, or Buyer Approved Equal, to be fabricated with the following specifications:

- Type 304SS frame and slide,
- Mounted with stainless steel fasteners,
- Stainless steel anchor bolts,
- Polymer bearing bars in guide grooves,
- Ultra High Molecular Weight (UHMW) seals,
- Pedestal mounted geared crank lift with 304 stainless steel stem and plastic stem cover with Mylar position indicator
- Height-distance: Twenty-one (21) feet from centerline

2.1.1.2. CPS-36 Crank Lift

- Two (2) each Hydrogate Model CPS-36 Crank Lift or Buyer Approved Equal
- With 36:1 ratio
- Threaded for a 3.5" Left Hand Rising Stem
- Fabricated steel pedestal (epoxy coated)
- Stem cover,
- Stop nut
- Aluminum crank handle

2.1.1.3. Stem

- Two (2) each - 3-1/2 inches x 254 inches long
- 3.5" Diameter Stem X 254" length-SS Left Hand Rising Stem-rolled threads (versus machined threads)

2.1.1.4. Stem Block

- Two (2) each - Stem Block for 120" x 120" gate

**2.1.1.5. CPS-2 Lift—Installation ONLY(The City will provide these parts)**

- Contractor shall install the lift for Plant Cooling Water Pump (PCWP) #11 existing lift gate
- CPS-2 Lift—1 each
- Stem—1 each
- Stem Block—1 each

**2.1.2. Installation Services**

- 2.1.2.1.** Contractor shall provide all necessary equipment and tools to remove existing slide gates and install all items described in section 2.1.1.
- 2.1.2.2.** Contractor shall provide their own facilities (i.e. office trailer, break area, and restrooms), and shall coordinate delivery and site location of facilities with Project Manager.
- 2.1.2.3.** Contractor shall **NOT** use the access ladders in the Intake Canal, as they have been deemed unsafe.
- 2.1.2.4.** Contractor shall notify Project Manager at least one (1) day prior to arriving at Decker of the time all Contractor personnel will arrive, the total number of personnel, and the name of the Contractor assigned supervisor or lead. All Contractor personnel are required to watch, and abide by all rules and requirements stated in, AE's 30 min Site Safety Orientation video. All Contractor personnel shall then sign their names in a log, acknowledging they have seen the video and agree to all rules and requirements of the video. Contractor personnel will be required to sign IN and OUT of Decker at the beginning and end of EVERY WORK DAY, and wear an assigned AE badge AT ALL TIMES while ON SITE. Badges will be assigned and turned in on a daily basis. Sign in/out is a SAFETY REQUIREMENT which allows Decker personnel to know the total number of people present in case of any emergency.
- 2.1.2.5.** Assigned Contractor supervisor or lead, shall sign on to and walkthrough lock-out tag-out (LOTO) prior to commencement of work. Contractor shall follow Decker LOTO procedures.
- 2.1.2.6.** Contractor shall remove existing grating to gain access to existing gate and erect safety fencing to remain around exposed opening for the duration of the project.
- 2.1.2.7.** For Dewater Decker Unit #1 Intake Canal, Contractor shall secure the Intake Canal for the duration of the project.
- 2.1.2.8.** Contractor shall unbolt and/or remove existing gate and frame. This includes hauling off of existing gate and frame for disposal.

- 2.1.2.9. Contractor shall remove all sheared fasteners. All, fasteners will be cored out and new fasteners shall be installed with epoxy. The Epoxy must be suitable for submerged concrete application, a Material Safety Data Sheet (MSDS) for the epoxy must be provided prior to epoxy arriving on site, within a minimum of 1 week prior, for evaluation by onsite environmental personnel.
- 2.1.2.10. Contractor shall install new gate and frame.
- 2.1.2.11. Contractor shall install new pedestal (lift) and stem.
- 2.1.2.12. Contractor shall inform Project Manager at minimum one (1) day prior to completion of installation tasks. Project Manager, along with assigned Contractor supervisor, or lead, shall inspect work site. Installation is NOT COMPLETE unless Project Manager approves of work.
- 2.1.2.13. Contractor shall reinstall existing grating at completion.
- 2.1.2.14. Contractor shall sign off of LOTO.

### **3. SCHEDULE**

- 3.1. Work is scheduled to be completed during the Fall 2014 outage that is currently scheduled for November 1, 2014 thru December 17, 2014. The deadline for materials delivery to Decker Plant is NLT November 3, 2014. The start date for work will be NLT December 1, 2014, to be completed within 2 weeks, ending NLT December 15, 2014.

### **4. BID AWARD**

- 4.1. Pricing shall be firm fixed for both product and installation and offer shall be good thru October 31, 2014.
- 4.2. AE shall divide the work between two purchase orders as follows:
  - 4.2.1 Purchase order for purchase of materials will be generated immediately after bid award and delivery will be Bidders best delivery. AE anticipates purchase order issuance for materials in August 2014.
  - 4.2.2 AE anticipates contracting for the installation services as well; however, it is contingent on an amendment and corresponding purchase order authorizing the installation. AE anticipates purchase order issuance for installation services in October 2014. Contractor's pricing for installation shall be firm through October 31, 2014. After the amendment, this pricing is firm through project completion.

## **5. ATTACHMENTS LIST**

- 5.1. Contains additional information describing the background and nature of the work conditions. This is included for information purposes only. The Contractor is responsible assessing the site. Traveling Water Screen (TWS) information within attachment shall be ignored; NO WORK will be done to TWS.
- 5.2. Contains Armco Drawing # 2-6056 for the existing Slide Gates and a picture of the existing Slide Gate.
- 5.3. Contains Concrete/Structure Drawings C-1054, C-1055, and C-1056 for Decker Unit #1 Intake, which detail the layout and area for the CWP and PCWP Slide Gates.

## Decker Unit 1 Slide Gates

**Manufacturer:** Armco

**Model #s:** Traveling Water Screens (TWS)—Model 35-05 Gate  
Plant Cooling Water Pumps (PCWP)—21  
Circulating Water Pumps (CWP)—Model 35-05 Gate

**Sizes:** TWS—96"x120"  
PCWP—?  
CWP—120"x120"

**DWG #s:** Lifting Assembly DWG—00-0119  
TWS—2-6055  
CWP—2-6056

### CWP-12 Sluice Gate

#### Work Scope

During the Unit 1 Spring '12 outage, the sluice gate was lowered so repairs could be done on the large 96" concrete inlet piping to the D1 Condenser. After the repairs we completed, the sluice gate was then, or believed to be, lifted back into operating position. At the time nothing was noticed to trigger an investigation into the sluice gate.

Recently Decker's Unit 1 CWP-12 motor began having vibration issues which caused the motor to give off a high pitched squeal. At first it was believed that the motor bearings may have begun to wear down, and the motor was in dire need of an overhaul. However, Bob Wilson (Decker Maintenance Mechanic) decided to do some investigation on the CWP-12 sluice gate.

#### Investigation

##### Removing Lifting Assembly

To investigate the status of the gate, the lifting drive assembly was removed. However, before it was removed, it was noted that the stem, which is simply suppose to go up and down without any other movement, began to spin and not rise. By spinning, it was believed the stem had come apart from the gate. Once the assembly was removed, the bottom of the stem was visually inspected, and a break could easily be seen (as shown in Figure 1).



**Figure 1: Broken stem**

As can be seen in Figure 1, the broken piece on the stem is actually a part of the shaft connected to the gate which the stem attaches to (**note:** before the picture was taken the shaft piece was cut in half so that it may be removed). Based on the location of the break, it was determined that small cracks had initially formed along the 2 XXXX holes, which later caused the entire break to occur. Because there was no necking on the shaft, and based on the condition the crack was in, it could be determined that the spinning of the stem caused the shaft to shear along the cracks which had earlier formed. This has not been confirmed. The wear and tear along with the age of the equipment also had a large part in the break.

Gate Position and Status

Using some measuring tape and long pole, it was determined that the gate was not sitting at the fully open position. To verify this measurement, the manhole into the CWP-12 suction pit was opened and the water level within the pit was closely observed. Initially the water within the pit was 78 inches below grade, after starting pump CWP-12 the water immediately dropped to 168 inches below grade, confirming our previous hypothesis of the gate not being fully open. Based on drawings of the gates and the gathered measurements, it was determined that the water in the pit was actually spilling over the top of the gate because the gate had fallen beyond its stopping point. This was later confirmed by a diver who was hired to go down into the water and closely investigate the gate and its condition. The diver's findings are listed below:

- Gate fallen beyond its lowest stopping point
- Gap between top of gate and pit opening approximately 1.5 feet
- 4 wedges broken or fallen out of place
- Gate sitting on 2 bolts approximately 15 inches from canal floor
- Incapable of lifting because gate is strongly lodged against wedges

Once it was determined that the gate was incapable of being lifting because of its condition, a small outage was taken on Unit 1 to allow for the intake canal to be de-watered so that the wedges could be removed.



**Figure 2: Wedges on gate**



**Figure 3:** Wedges on gate frame



**Figure 4:** Unbroken wedges



**Figure 5:** Broken wedges

Depicted in Figure 2 are unbroken wedges that are attached directly to the gate. As can be seen, these wedges are held in place by a single bolt and slot, allowing for the wedge tightness to be adjusted. Figure 3 illustrates how the wedges bolted to the gate frame should look when undamaged. Figures 4 and 5 show the unbroken and broken wedges found on the gate being investigated. Based on the damage done to the wedges, it is suggested that all wedges be replaced to avoid the possibility of installing highly fatigued equipment. The wedges, however, were not the only broken pieces of equipment. The wedge mounts on the frame of the gate were also broken by the falling of the gate. As can be seen in Figure 6 below, as the gate fell into the wedges below, the force at which it fell was enough to cause the bolts to rip out pieces of the wedge mounts.



**Figure 6:** Broken wedge mount

After removing the intact wedges the gate was then lifted easily by crane, the weight of the gate was said to be **12,000 lbs** by the crane operator. To quickly release the Unit to full capacity, the gate was left hanging in the fully open position using lifting cables.

Later, the OEM was asked to come on site to assess the damages and give recommendations on future repairs to the gate and frame. From what the OEM assessed, it will be necessary to remove and replace the entire gate frame, as the current frame has aged and is not repairable

## TWS Sluice Gate

### Work Scope

Taking an advantage to the entire intake canal being de-watered, the middle TWS-12 sluice gate was also examined. Previously, the gate lifting assembly had failed and was not lifting the gate from its down position. Also, as the canal was being de-watered, a large pipe wrench could be seen clinging onto the lifting stem. One reasonable explanation for the purpose of the wrench is that it was used to keep the stem/shaft on the stem from spinning as the gate was being lifted. A photo of the attached wrench can be seen in Figure 7 below.



**Figure 7:** TWS sluice gate with wrench attached

After the canal was de-watered and the CWP-12 gate was secured, DMX personnel removed the wrench and made repairs, using the salvaged parts from the CWP-12 gate, to the lifting assembly to the TWS-12 gate. Removing the wrench and repairing the lifting stem were not the only repairs made; the lifting assembly drive was also opened and repaired.

#### Disclaimer:

The City of Austin, Austin Energy has provided this information (attachment) to be used for informational purposes ONLY. It is not meant to be used as a tool for bidding purposes.





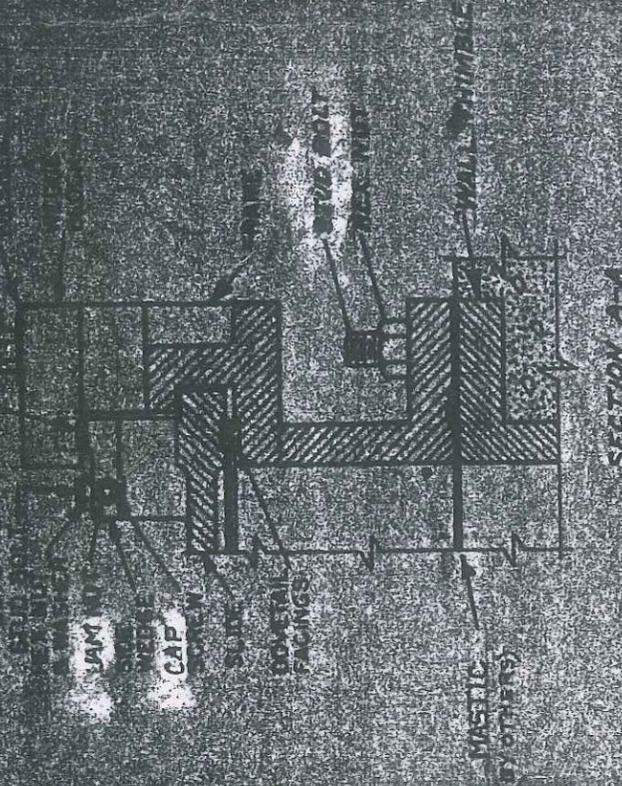
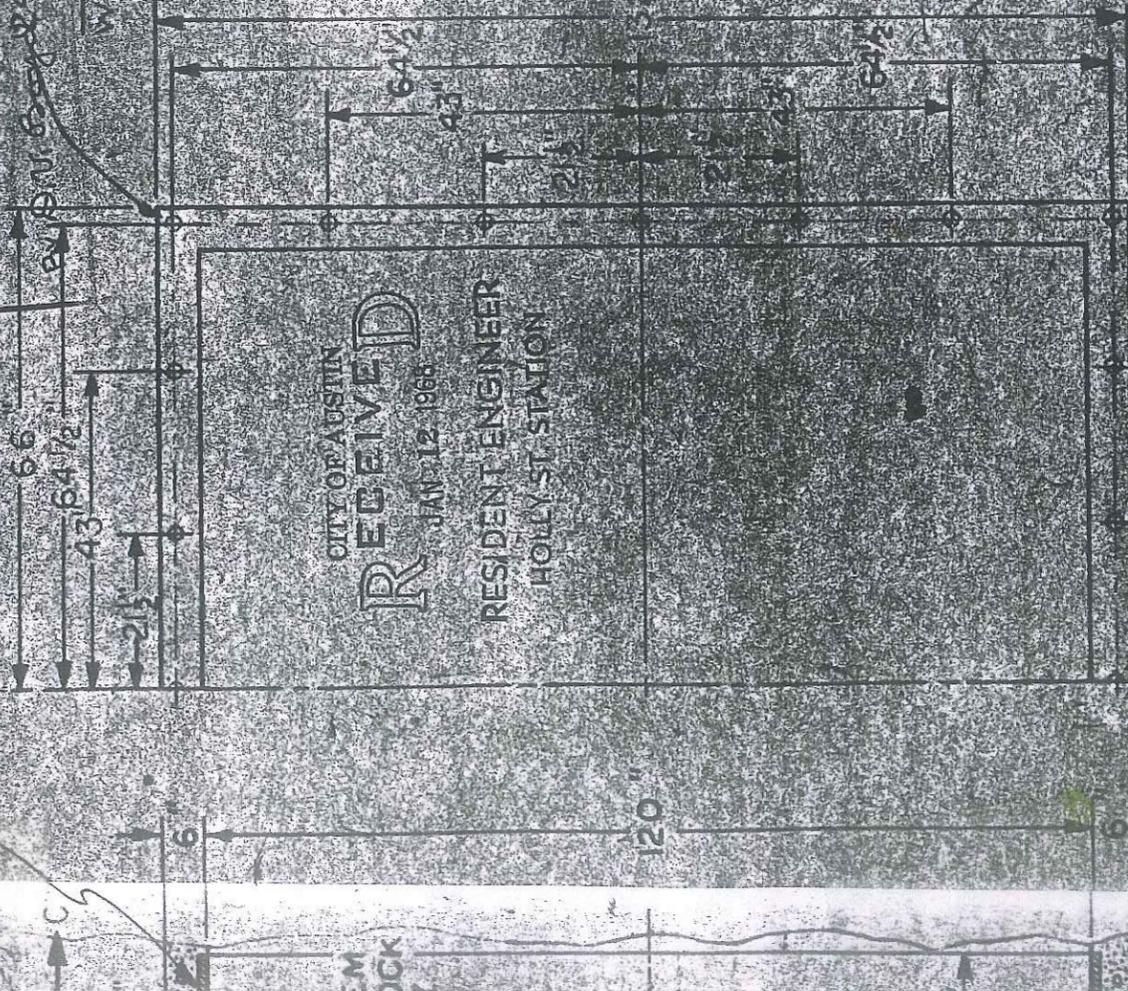
*D1 Circulating Water Pumps*

GUIDE, ADJ.  
MAX.  
MIN.  
DETAIL OF FULLY  
ADJUSTABLE STEM GUIDE  
TYPE - 3

1" DIA. X 12"  
ANCHOR BOLTS  
WITH 3" PROJ.  
(CALC. SZL.)

STEM 3/2 DIA.  
(BRONZE)

WALL THIMBLE



RECOMMENDED MINIMUM  
CLEARANCES FOR INSTALLATION



TOTAL LENGTH  
LESS 2

ANCHOR BOLT DETAIL  
(CALC.)

NOTE: PAINT SHOP STANDARD

CASTING TOLERANCES APPLY  
ALL GRMACHINED SURFACES  
UNITS FURNISHED WITH ALL  
STUD BOLTS AND ANCHOR BOLTS

STUD BOLTS  
W/ 3/4" PROJ.  
(ONLY)

APPD. FOR CONSTR.  
BROWN & ROOT, INC.  
DEC 22 1967

RECEIVED  
BROWN & ROOT, INC.  
DEC 14 1967  
ENGINEERING DEPT.

*THE CIRCULATING WATER PUMP SLIDING GATES*

2 - REQ'D REF. NO. 9662B

116-4

CITY OF AUSTIN  
RECEIVED  
JAN 12 1966  
RESIDENT ENGINEER  
HOLLY ST. STATION

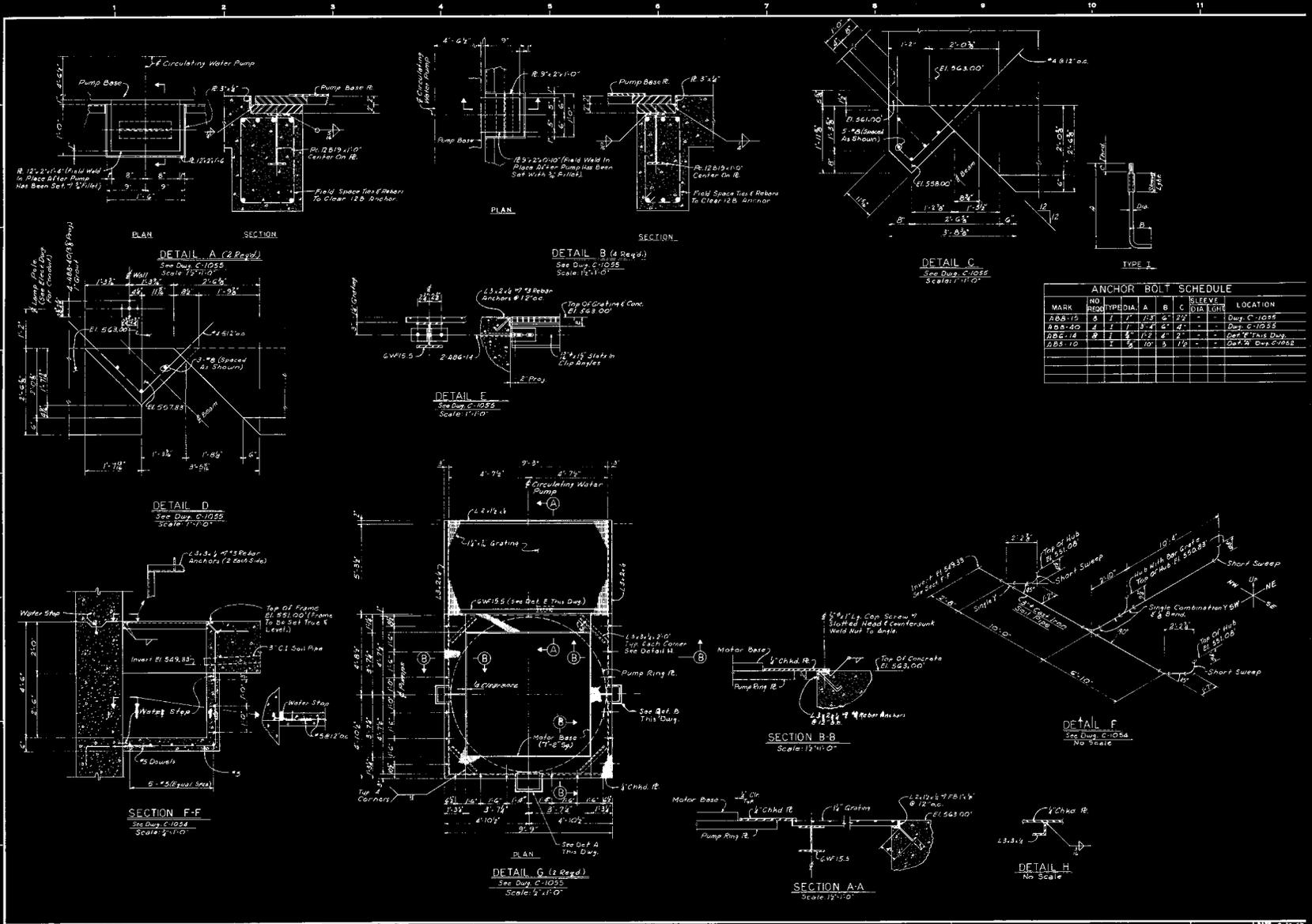
NOTICE  
INSTALLATION DRAWING OF BRONZE  
120" X 120" MODEL 35-60 GATE  
WITH WALL THIMBLE &  
FLANGE BACK

STUD BOLT VIEW OF THIMBLE

11-28-66 116-4







DATE	BY	CHK. E.P.	CUSTOMER APP.
10/1/52	C.W. Boyd		
10/1/52			

**BROWN & ROOT, INC.**  
**ENGINEERS AND CONSTRUCTORS**  
**HOUSTON, TEXAS**

**CITY OF AUSTIN**  
**AUSTIN, TEXAS**  
**DECKER CREEK POWER STATION**  
**UNIT NO. 1**

**DRAWING TITLE**  
**CONCRETE**  
**INTAKE STRUCTURE**  
**SECTIONS AND DETAILS**

NO. DRAWING NO.	DATE
C-1056-2	7-10-52
SCALE	As Shown

**BID SHEET  
CITY OF AUSTIN  
SLIDE GATE REPLACEMENT  
SOLICITATION: IFB NST0001 BUYER: NICOLE TURNER**

**Copies of Bid:** Bidder must submit two copies of its signed bid - one original, two copies and one CD/Flash Drive

**Special Instructions:** Be advised that exceptions taken to any portion of the solicitation may jeopardize acceptance of the bid.

ITEM	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	EXTENDED PRICE
1	Parts, Materials & Accessories per Scope of Work (Section 0500, parts 2.1.1.1 - 2.1.1.3)	1	LOT		
2	Installation per Scope of Work (Section 0500, parts 2.1.1.5 & 2.1.2). This includes: - Mobilization/Demobilization - Crane Service - Facilities to be used - Pumping services to dewater intake canal - Leak sealing services for possible leaking gates - Removal of old material and installation of new material	1	LOT		
<b>Note: Work is scheduled to be completed during the Fall 2014 outage that is currently scheduled for November 1, 2014 thru December 17, 2014. The deadline for materials delivery to Decker Plant is NLT November 3, 2014. The start date for work will be NLT December 1, 2014, to be completed within 2 weeks, ending NLT December 15, 2014.</b>				<b>TOTAL BID</b>	

By signing the Bid sheet you agree to comply with the above noted delivery and installation schedule.

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

SIGNATURE OF AUTHORIZED REPRESENTATIVE: \_\_\_\_\_

PRINTED NAME: \_\_\_\_\_

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