



CITY OF HOUSTON

Annise D. Parker

Mayor

P.O. Box 1562
Houston, Texas 77251-1562

Telephone – Dial 311
www.houstontx.gov
<http://purchasing.houstontx.gov>

October 22, 2013

Subject: Letter of Clarification No. 2 to Invitation to Bid No. S50-C24671 for the 69th Street Wastewater Treatment Plant Pump Station, Digester and Thickener Blower Switchgears, Sub-Station and Starter Replacement for the Public Works and Engineering Department

To: All Prospective Bidders:

This letter of Clarification is being issued for the following reasons:

- **To extend the bid, revise the Electronic Bid Form, revise Section “B” Scope of Work/Technical Specifications, add additional Drawings, Technical Specifications, Addendum and respond to questions posed by perspective bidders:**

1.) **NOTICE TO BIDDER:**

The bid opening date has changed from 10:30 A.M. October 24, 2013 to 10:30 A.M., October 31, 2013. Contractors may schedule a second site visit by contacting, Dathan Lindsey at (713) 726-6602.

- 2.) See the revised Electronic Bid Form.
- 3.) Remove Page Nos. 15, 16, 17, 18, 19, 20, 21, 22 of 30 and replace with Page Nos. 15, 16, 17, 18, 19 & 20 of 28 marked, REVISED 10/18/2013.
- 4.) Add the additional PDF, Technical Specifications, Drawings and Addendum.
- 5.) The following questions and City of Houston responses are hereby incorporated and made a part of the Invitation to Bid:

Question No 1: Drawing No. E-27 calls out for 316SS enclosure, Spec. No. 16346 Section 2.03.B.1 calls out for galvanized steel. Please advise what material is to be used for the enclosures?

Answer: Enclosures for the padmount switchgears shall be made out of galvanized steel. The revision is shown in the revised Drawing No. E-27. See the attached revised Drawing No. E-27 dated REVISED 10/22/2013.

A PDF version of the Revised Drawings can be viewed on the following web link <https://purchasing.houstontx.gov/buyer/BidDocumentManager.aspx?id=C24671>

Question No. 2: Transformers XFMR-BL & XFMR-BR: Both transformers are shown on Drawing No. E-23. These transformers cannot be located on any other drawings. What location are these transformers to be installed in?

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What is the secondary voltage and configuration of these units (close coupled to LV Swgr or cable connected)? What is the configuration for the HV side of these units (HV Right or Left)?

Answer: Transformers XFMR-BL & XFMR-BR are also called “Old blower facility transformers” and are shown on Drawing Sheet Nos. E-5 and E-19. The new transformers are to replace the old transformers. Currently, the existing transformers have a 15 KV LIS switch on the primary and an Air Terminal Compartment (ATC) on the secondary. The new transformers

shall be bottom fed and have automatic transfer switches on both primary and secondary as specified in Section 16276. The LV section of transformers is located on the side closest to the old blower facility.

Question No. 3: Specification 16346-7, 2.03 CONSTRUCTION, B) Enclosures, 1. States, all enclosures shall be made of galvanized steel. Drawing E-47, note 6

States; provide 15kV class pad mounted outdoor switchgear in 316ss enclosure. Is the enclosure to be galvanized or 316ss?

Answer: See the above response to Question No. 1.

Question No. 4: Specification 16346-9, 2.03 CONSTRUCTION, E) Fault, Interrupter Switches, 2) Vacuum Interrupter Operation. a.) states, a disconnect shall be provided in series with the vacuum interrupter. Drawings E-23, E-24, and E-27 do not make reference to a disconnect in series with the vacuum interrupter. Is a disconnect required or is a ground position on the vacuum interrupter ways required?

Answer: The switch is shown on the secondary of the vacuum interrupter bottle on all three of the Drawing Sheet Nos. E-23, E-24 & E-27. A switch is required on the secondary of the vacuum bottles. A ground position on the vacuum interrupter ways shall not be required.

Question No. 5: There is no reference in Specification 16346 or drawings E-23, E-24, or E-27 to a requirement for Arc Resistant switchgear. G & W offers a line of switchgear which has been tested to IEC62271-200 which is the latest standard for arc resistant switchgear. Is arc resistant switchgear, tested to IEC62271-200 a requirement?

Answer: See the revised specifications to reflect arc resistant requirement on the following web link dated REVISED 10/18/2013.

A PDF version of the Revised Technical Specifications can be viewed on the following web link
<https://purchasing.houstontx.gov/buyer/BidDocumentManager.aspx?id=C24671>

Question No. 6: Specification 16346-10, 2.03 CONSTRUCTION, F) Electronic Control, 1) states, the electronic control shall be powered from current transformers mounted inside the switch tank. In that same section, 7. States, control relays one per phase shall be Schweitzer's 501-2. The 501-2 is not

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powered from a current transformer. The 501-2 will require a potential transformer to be added to the inside of the tank. Is a Schweitzer 501-2 relay required or is a standard G & W type 2 control, which is powered from current transformers mounted inside the tank, acceptable?

Answer: Locations where 501-2 Schweitzer relay is required is shown in the Contract Drawings and when such a relay is to be provided a power transformer needs to be added to the inside of the tank. The associated paragraph in the specification has been modified to read: Where a Schweitzer 501-2 relay is shown on the drawings, the relay shall be

powered from a potential transformer to be added to the inside of the tank. Where a standard G&W (manufacturer) type 2 control is shown on the drawings, the electronic control shall be powered from current transformers mounted inside the switch tank.

Question No. 7: Specification 16346-11, 2.04 TESTING, A. Industry standard and G&W standard factory production tests are as follows:

- Each switch shall be factory filled with SF6 gas. The gas shall be checked for moisture content.
- Each switch shall undergo an SF6 leak check to verify the integrity of the tank, seals, and gaskets.
- A mechanical operation check of each switching mechanism.
- AC hi-pot tested one minute phase-to-phase, phase-to-ground and across the open contacts.
- Circuit resistance shall be checked.
- Primary current injection test to test CTs, trip mechanism, and electronic control.

Are these tests acceptable to replace the existing verbiage?

Answer: These tests are acceptable and verbiage has been modified in Specification No. 16346. See the revised Specification No. 16346 at the following web link, dated REVISED 10/18/2013.

A PDF version of the Revised Technical Specification can be viewed on the following web link <https://purchasing.houstontx.gov/buyer/BidDocumentManager.aspx?id=C24671>

Question No. 8: There are missing drawings on your website for the job referenced above. Sheets 7, 8, 13, 14, 15, 16, 17 & 28 are missing and there are (2) sheets numbered sheets 37 & 38 that are completely different. One sheet 37 & 38 is "SD1 & SD2" and the other is "E29 & E30". According to the list of drawings on the cover sheet E29 and E30 are correct. Can you tell me where to go to find the correct FULL set of drawings?

Answer: Drawing Sheet Nos. SD1 and SD2 are not sequenced properly and shall be sequenced 7 and 8 respectively. The other sheets mentioned in the question above are all available in the full set of drawings posted online.

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Question No. 9: Per Sheet E-4, Notes by Symbol No. 1 requires the contractor to install new cable tray on existing supports. Please note that the existing supports are on an average spacing of 15' center to center. Also, note that Specification Section 16115- 4, Part 3.01 D requires supports at each connection point of tray. Is the contractor to add supports to meet the spec or use existing only? The spec requires us to use 20' length tray. Please clarify?

Answer: Location of connection points for new cable tray shall be provided to match existing supports. The existing supports shall be spaced at intervals no greater than 20' and the Contractor shall be required to provide additional supports for new cable tray.

Question No. 10: At the site visit we noticed that conduits and supports have been added to the sides of the existing cable tray to support several conduit runs. This is not shown on the drawing or noted. Please note that per the NEC that the cable tray is not intended to support conduits on the outside of the tray but is allowed on the inside of the tray if the weight is calculated in the tray design. Please clarify?

Answer: A general note has been added to Drawing Sheet Nos. E-4 and E-5. The added general note reads: "CONDUITS AND SUPPORTS HAVE BEEN ADDED TO THE SIDES OF THE EXISTING CABLE TRAY TO SUPPORT CONDUIT RUNS NOT SHOWN ON THE CONTRACT DOCUMENTS. CONTRACTOR SHALL IDENTIFY EXISTING CONDUITS TO BE SUPPORTED AND SUPPORT CONDUITS ON THE INSIDE OF THE CABLE TRAY. EXTEND ANY CONDUITS/CABLES AS NEEDED. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY WEIGHT CALCULATIONS TO ENSURE THE TRAY IS SIZED APPROPRIATELY TO SUPPORT THE EXISTING CONDUITS AND CABLES IN ADDITION TO THE NEW WIRING TO BE SUPPORTED UNDER THIS CONTRACT." See the attached revised Drawing Nos. E-4 and E-5 dated REVISED 10/22/2013 at the following website link:

A PDF version of the Revised Drawings can be viewed on the following web link
<https://purchasing.houstontx.gov/buyer/BidDocumentManager.aspx?id=C24671>

Question No. 11: Please indicate where Specification Section 16280 Power Factor Corrections Capacitors are being installed?

Answer: Power factor correction capacitors shall be installed in the medium voltage starter cabinet provided for each blower as mentioned in paragraph 2.09 of Specification Section 16345 Medium Voltage Motor Controller.

Question No. 12: Per Drawing E-27, Sheet 35, Notes 3 & 6 calls for 316 SS enclosures. Spec Section 16346-7, B-I calls for galvanized steel. Please clarify?

Answer: See response to Question No. 1 above.

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Question No. 13: Per Spec Section 16276-8 / 2.05-4 an external 120V source is to be provided for new space heaters for the new pad mount substation transformers SS-2A and SS-2B. This is not shown on drawings E-16 and E-17?

Answer: Additional 20A/1p circuits feeding the space heaters from panels LP-2A3 and LP-2B3 will be shown on sheets E-16, E-17 and E-30. See the attached revised Drawing Sheet Nos. E-16, E-17 and E-30 dated REVISED 10/22/2013 at the following website link:

A PDF version of the Revised Drawings can be viewed on the following web link
<https://purchasing.houstontx.gov/buyer/BidDocumentManager.aspx?id=C24671>

Question No. 14: Per Spec Section 011110-2 / 1.05, C.I, the contractor is to supply back-up generators for MCC-1A and MCC-1B, Mini Power Center. Please provide the required load so that the contractor can provide the properly sized generator required?

Answer: The Contractor shall assume the load of 750 KVA and verify with the City's representative at time of shutdown for exact loads to be maintained in operation.

Question No. 15: Per Section B, Scope of Work, Part 1, 2.4 "Arc Resistant Switchgear". Spec Section 16348 does not mention Arc Resistant Switchgear. Is Arc Resistant Switchgear required?

Answer: See response to Question No. 5 above.

Question No. 16: Reference Sheet E-13; Drawing Note 2 states to "extend cable tray as needed to support new wiring to pad mount switchgears." Nothing restricts the routing of this new cable tray. If cable tray is installed above the new switchgears, it could inhibit future maintenance and/or removal of switchgear components. Should a cable tray route be indicated on the drawings, including required additional supports, taking future access to the equipment into account?

Answer: Drawing Sheet No. E-13 is provided to restrict routing of the cable tray above the switchboard and transformer line-up. The Contractor shall be required to provide routing and additional supports per the structural details provided in the contract drawings. See the following website link for clarification to the above response.

A PDF version of the Revised Drawings can be viewed on the following web link
<https://purchasing.houstontx.gov/buyer/BidDocumentManager.aspx?id=C24671>

Question No. 17: Is it the engineer's intent to have the new cable tray supported off of the new gear, like existing, or add new supports per Detail on SD2?

Answer: New supports shall be added. A cable tray shall not be supported off of

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the existing gear.

Question No. 18: Is the engineer's intent to enter the medium voltage multi-conductor cable to the new high voltage switchgear and transformer ATC from the top of the equipment?

Answer: The air terminal cabinet shall be penetrated from the top of the equipment. New pad mounted switchgear shall be penetrated as described in note No. 4 of Drawing No. E-13 "Pad Mount Switchgear pad shall be 1' thick. Wiring to pad mount switchgear shall be run through pad into bottom of enclosure.

Question No. 19: After reviewing the existing tray there are areas where the cable tray supports other trays by all-thread rod and Unistrut. Is it the engineer's intent to replace as is or add new steel supports per detail on SD2?

Answer: See the response to Question No. 10 above.

Question No. 20: Sheet E-17, Note 1 requires the contractor to replace existing motor terminal boxes. Are these to be manufactured out of stainless steel or painted steel? Is the size of the existing boxes large enough or should they be larger?

Answer: New terminal boxes shall be manufactured out of painted galvanized steel. The terminal box shall have a volume greater than or equal to the next standard NEMA size box. Note No.1 will be modified per addendum. See the attached addendum dated REVISED 10/18/2013 at the following website link:

A PDF version of the Addendum can be viewed on the following web link
<https://purchasing.houstontx.gov/buyer/BidDocumentManager.aspx?id=C24671>

Question No. 21: Per on line bidding procedure we submit and print two copies, do we also include Document 00410 Part A & B Bid Form that was included in the Standard Specs?

Answer: No; only the completed E-bidding form must be included/submitted.

Question No. 22: Table 1 lists M/WSBE Documentation linked to these two forms:

1. Letter of Intent.
2. Schedule of MWDBE Participation Form.

Are these two forms additional to Documents 00470, 471 & 472?

Answer: Yes. The "Letter of Intent", will be provided by the City to the apparent low bidder, upon receipt of the recommendation to award from the end-user department.

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Yes. The Schedule of MWDBE Participation Form will be forwarded if necessary.

Note: No further questions will be accepted after the publication of this Letter of Clarification.

When issued, Letter(s) of Clarification shall automatically become a part of the solicitation documents and shall supersede any previous specification(s) and/or provision(s) in conflict with the Letter(s) of Clarification. All revisions, responses, and answers incorporated into the Letter(s) of Clarification are collaboratively from both the Strategic Purchasing Division and the applicable City Department(s). It is the responsibility of the bidder/respondent to ensure that it has obtained all such letter(s). By submitting a bid on this project, bidders/respondents shall be deemed to have received all Letter(s) of Clarification and to have incorporated them into this solicitation and resulting bid.

Furthermore, it is the responsibility of each Contractor to obtain any previous Letter of Clarification associated with this solicitation.

Arturo Lopez

Arturo Lopez
Senior Procurement Specialist
832-393-8731

Attachments: REVISED Page Nos. 15, 16, 17, 18, 19, 20, Drawing Sheet Nos. E-9, E-15, E-26 & E-30.

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**SECTION B
SCOPE OF WORK
PART I**

1.0 SCOPE OF WORK SUMMARY:

- 1.1 The Contractor shall be required to provide all supervision, labor, materials, equipment, tools, transportation and ancillary items necessary to remove and properly dispose of the existing digester and thickener blower switchgears, sub-station and starters and associated equipment, at the 69th Street Wastewater Treatment Plant (69th WWTP) Pump Station, located at, 2525 S/SGT Macario Garcia Drive. The Contractor shall also be required to furnish and install a new digester and thickener blower switchgears, sub-station, starters and associated equipment at the aforementioned location.

2.0 PROJECT DESCRIPTION:

- 2.1 The Contractor shall be required to replace the electrical infrastructure from the main plant switchgear down to Pump Stations Nos. 3 through 11, the thickener complex and the aerobic digester blower complex.
- 2.2 The Contractor shall be required to replace the 15KV wiring from the main plant switchgear to the electrical 15KV switches at each facility along with the 2400V wiring from the substation transformer to the new motor starter and motor at the blower facility and the 480V cables from the substation transformer to the existing electrical Motor Control Center/ Switchboard.
- 2.3 The electrical equipment the Contractor shall be required to remove consist of 22 incoming 15KV Load Interrupter switches, 24 oil filled substation type transformers, 4 low voltage transformers, 10-480V switchboards, 2-2400V switchgears and 8-2400V blower starters.
- 2.4 The Contractor shall be required to furnish and install 24-15KV pad mounted arc resistant switchgears and 2-2400V arc resistant switchgear filed with SF6 gas, 24 liquid filled substation type transformers, 4 low voltage transformers, and 10-480V switchboards in NEMA 3R enclosures and 7-2400V blower starters.
- 2.5 ***Specification 16346-9, 2.03 CONSTRUCTION, E) Fault, Interrupter Switches, 2) Vacuum Interrupter Operation. a.); a switch is required on the secondary of the vacuum bottles. A ground position on the vacuum interrupter ways shall not be required as per the Drawing Sheet Nos. E-23, E-24 & E-27. A PDF version of the Revised Drawings can be viewed on the following web link;***
<https://purchasing.houstontx.gov/buyer/BidDocumentManager.aspx?id=C24671>
- 2.6 ***Specification Section 16276-8 / 2.05-4; a switch is required on the secondary of the vacuum bottles. A ground position on the vacuum interrupter ways shall not be***
- 2.7 ***Specification Section 16276-8 / 2.05-4; additional 20A/1p circuits feeding the space heaters from panels LP-2A3 and LP-2B3 will be shown on sheets E-16, E-17 and E-30. See the attached revised Drawing Sheet Nos. E-16, E--17 and E-30 dated REVISED 10/18/2013. A PDF version of the Revised Drawings can be viewed on the following web link;***
<https://purchasing.houstontx.gov/buyer/BidDocumentManager.aspx?id=C24671>
- 2.8 ***Specification Section 011110-2 / 1.05, C.I; the Contractor shall assume the load of 750 KVA and verify with the City's representative at time of shutdown for exact loads to be maintained in operation.***

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2.9 *Drawing Sheet No. E-13; Drawing Note 2; the Contractor shall be required to provide routing and additional supports per the structural details provided in the contract drawings.*

2.10 *Drawing Sheet No. E-17, Note 1; the Contractor shall be required to provide new terminal boxes and shall be manufactured out of painted galvanized steel. The terminal box shall have a volume greater than or equal to the next standard NEMA size box. Note No.1 will be modified per addendum. A PDF version of the Addendum can be viewed on the following web link;*

<https://purchasing.houstontx.gov/buyer/BidDocumentManager.aspx?id=C24671>

3.0 **SECURITY PROTOCOL:**

3.1 The successful bidder(s) shall comply with the Public Works and Engineering Policy and Procedure guide on background checks of Employment Applicants, Employees, Contractors, Suppliers and follow the Department standard operating procedures (SOP) for Contractor Badge Issuance and Access to Critical Infrastructure Sites.

4.0 **PERFORMANCE TIME:**

4.1 The Contractor shall have **600 calendar days** to remove and properly dispose of the existing digester and thickener blower switchgears, sub-station and starters and associated equipment in strict accordance with the scope of work/specifications after receipt of the City of Houston Purchase Order.

5.0 **WARRANTY:**

5.1 The Contractor shall warranty the new digester and thickener blower switchgears, sub-station and starters and associated equipment for a period stated in each of the appropriate technical specifications. The warranty shall include all parts, labor, material and transportation costs associated either performing the warranty repairs on site or at the contractor's facility. The warranty shall be subsequent to certification, testing and acceptance of the equipment by the City of Houston.

6.0 **SPECIFIED EQUIPMENT OR EQUIVALENT:**

6.1 Wherever in the specifications any materials or processes are indicated or specified by patent of proprietary name and/or by name of manufacturer, such specifications shall be deemed to be used for the purpose of facilitating descriptions of the performance, materials and/or processes desired and shall be deemed to be followed by the words, "or equivalent", if not so stated in the specifications herein.

6.2 The burden of proof shall rest with the bidder, in the course of a technical evaluation, to prove that the proposed item(s) are equivalent to the performance, materials, processes, or articles specified. DETERMINATION AS TO WHETHER THE ITEM (S) BID IS (ARE) EQUIVALENT TO THOSE SPECIFIED SHALL REST SOLELY WITH THE CITY PURCHASING AGENT AND THE RECEIVING DEPARTMENT.

7.0 **BRAND NAME OR TRADE NAME:**

7.1 Any manufacturer's names, trade names, brand names, or catalog numbers used in the specifications are for the purpose of describing and establishing the general quality level, design and performance desired. Such references are not intended to limit or restrict bidding by other Contractors/Suppliers, but are intended to approximate the quality design or performance that is desired. Any bid that proposes like quality, design or performance, will be considered. Equivalent products will be considered, provided a complete description and product literature is provided. Unless a specific exception is made, the assumption will be that the item bid is exactly as specified on the Invitation to Bid.

END OF SECTION
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TECHNICAL SPECIFICATIONS
PART II



CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING
ENGINEERING AND CONSTRUCTION DIVISION

PROJECT MANUAL

69th STREET WWTP
PUMP STATION, DIGESTER AND THICKENER
BLOWER SWITCHGEARS, SUB-STATION AND STARTER REPLACEMENT

WBS No. R-000509-0027-4

VOLUME 1 OF 1

MAY 2013



John N. Mudd 5/16/13
John N. Mudd, P.E. No. 106191
Division 00 through Division 15



Annie Levesque 5/16/13
Annie Levesque, P.E. No. 94943
Section 01110 and Division 16



Timothy E. Campbell 5/16/13
Timothy E. Campbell, P.E. No. 81011
Division 16



2925 Briarpark, Suite 850
Houston, Texas 77042
713-532-1730
TBPE FIRM No. 1741

A PDF version of the Revised Technical Specifications, Addendum & Drawings dated 10/18/2013 can be viewed on the following web link

<https://purchasing.houstontx.gov/buyer/BidDocumentManager.aspx?id=C24671>

A PDF version of the Technical Specifications, Lead and Asbestos Report and the Geotechnical Report can be viewed on the following web link

<https://purchasing.houstontx.gov/buyer/BidDocumentManager.aspx?id=C24671>

A PDF version of the 69th Street WWTP Project Drawings can be viewed on the following web link

<https://purchasing.houstontx.gov/buyer/BidDocumentManager.aspx?id=C24671>

A PDF version of the Survey Control Drawings can be viewed on the following web link

<https://purchasing.houstontx.gov/buyer/BidDocumentManager.aspx?id=C24671>

SECTION C

ENGINEERING WAGE SCALE

A PDF version of the 2013 Engineering Wage Scale can be viewed on the following web link
<https://purchasing.houstontx.gov/buyer/BidDocumentManager.aspx?id=C24671>

BUILDING WAGE DECISION

A PDF version of the 2013 Building Wage Scale can be viewed on the following web link
<https://purchasing.houstontx.gov/buyer/BidDocumentManager.aspx?id=C24671>

PW&E POLICY AND PROCEDURES FOR CONTRACTORS

A PDF version of the PW&E Policy & Procedures for Contractors
can be viewed on the following web link

<https://purchasing.houstontx.gov/buyer/BidDocumentManager.aspx?id=C24671>

Document 00700

GENERAL CONDITIONS

A PDF version of the General Conditions can be viewed on the following web link:

<https://purchasing.houstontx.gov/buyer/BidDocumentManager.aspx?id=C24671>

Document 00800

SUPPLEMENTARY CONDITIONS

The following Paragraphs amend and supplement the 2011 edition of General Conditions. Unaltered portions of General Conditions remain in effect.

ARTICLE 1 – GENERAL PROVISIONS:

1.1 DEFINITIONS: Insert the following Paragraph 1.1.9.1, and 1.1.23, and reorder the remaining definitions accordingly.

1.1.9.1 The firm of N/A has been employed by the City as Construction Manager for the Work.

1.1.23 Good Faith Efforts are steps taken to achieve a Contract Goal or other requirements which, by their scope, intensity and usefulness demonstrates the bidder's responsiveness to fulfill the business opportunity objective prior to the award of a contract, as well as the contractor's responsibility to put forth measures to meet or exceed the Contract Goal throughout the duration of the contract.

1.1.24 Good Faith Efforts are required to be made and demonstrated by an apparent successful bidder on goal oriented contracts or proposer on a regulated contract prior to award of a contract. Good Faith Efforts are required on professional services and construction contracts and on procurement of goods and non-professional service contracts with goals. If a bidder, when submitting a participation plan at the time of a bid or proposal submission, anticipates it cannot or will not meet the Contract Goal prior to the award, the bidder must

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demonstrate to Office of Business Opportunity (“OBO”) it has made Good Faith Efforts to meet the Contract goal, to be eligible for the contract award

ARTICLE 3 - THE CONTRACTOR

3.5 LABOR: Insert the following Paragraphs, 3.5.3.1.1 and 3.5.3.1.2.

3.5.3.1.1 If the original contract price is greater than One Million Dollars, the Contractor shall make Good Faith Efforts to comply with the City ordinances regarding Minority Business Enterprises (MBE), Women Business Enterprises (WBE), Persons with Disabilities Business Enterprises (PDBE) and Small Business Enterprise (SBE) participation goals which are as follows:

- .1 The MBE goal is 11 percent,
- .2 The WBE goal is 7 percent, and
- .3 The PDBE goal is 0 percent.
- .4 The bidder may substitute SBE participation of no more than five percent of the MBE goal, the WBE goal, or portions of the MBE Goal and WBE Goal.

3.5.3.1.2 The MBE, WBE, PDBE, and SBE goals are unique and specific to this Agreement. The Contractor shall make reasonable efforts to achieve these goals.

3.5.3.1.3 Failure by Contractor to comply with the goals for MBE, WBE, SBE, or PDBE is a material breach of the Agreement, which may result in termination of the Agreement, or such other remedy permitted as the City deems appropriate.

ARTICLE 8 - TIME

8.1 PROGRESS AND COMPLETION: Delete Paragraph 8.1.6 in its entirety and replace it with the following Paragraph 8.1.6:

8.1.6 Contractor may perform Work at the site 24 hours per day, seven days per week. Contractor shall give 24-hour prior written notice and receive confirmation of notice from Project Manager prior to performing work between 7:00 p.m. and 7:00 a.m., on a Sunday, or on a Legal Holiday. Contractor shall comply with City Code of Ordinances, Chapter 30 relating to Noise and Sound Level Regulation.

8.1 PROGRESS AND COMPLETION: Add the following Paragraph 8.1.6.1.

8.1.6.1 Contractor shall credit the City by Change Order for inspection services for overtime work or work performed on Sundays or Legal Holidays. The amount Contractor credits the City will be [\$50.00 per hour] [actual costs] per inspector for inspection services.

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ARTICLE 9 - PAYMENTS AND COMPLETION

9.1 UNIT PRICE WORK: Delete Section 9.1 in its entirety and insert the following Section 9.1.

9.1 References to Unit Prices in individual Specification sections are not applicable to the Contract. Include payment for portions of the Work required by these sections in the Stipulated Price for the Contract.

9.12 LIQUIDATED DAMAGES: Insert the following Paragraph 9.12.1.1.

9.12.1.1 The amount of liquidated damages payable by Contractor or Surety for each and every day of delay beyond Contract Time, are **\$2,000.00 per day.**

9.12.1.2 The amount of liquidated damages provided in General Conditions Paragraph 9.12.1 payable by Contractor or Surety for each and every day of delay beyond the time stipulated in Summary of Work Paragraph 1.08.B are as follows:

- a. **Repair Items:** If the contractor does not complete replacement, improvement and/or new installations on existing service lines and any associated work of all work orders within twelve (12) days from the date the work orders were issued, the City of Houston may, at its discretion, collect \$400.00 (four hundred dollars) in liquidated damages per day for each repair not completed within twelve (12) days.
- b. **Restoration Items:** If the contractor does not complete the repairing, resurfacing and/or sodding of concrete, asphalt and/or lawn areas and any associated work disturbed by construction within six (6) days after the repair items are completed, the City of Houston may, at its discretion, collect \$400.00 (four hundred dollars) in liquidated damages per day for each restoration not completed within six (6) days.

ARTICLE 11 - INSURANCE AND BONDS

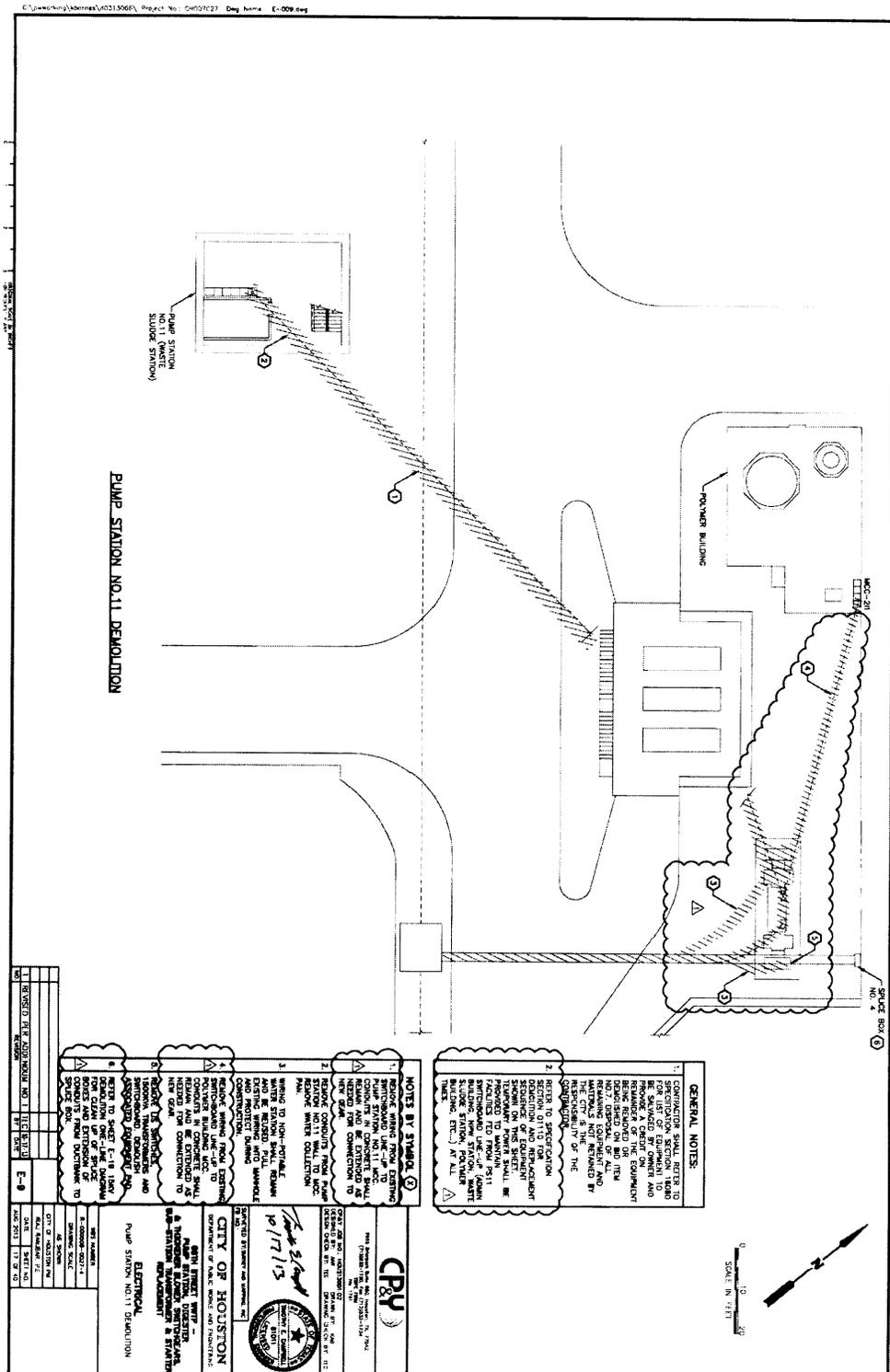
11.2 INSURANCE TO BE PROVIDED BY CONTRACTOR: Delete Paragraph 11.2.8. and replace with the following 11.2.8.

11.2.1.4 Contractor shall provide Owners and Contractor's Protective Liability Insurance only if the contractor's bid price is equal to or greater than \$100,000.00.

11.2.8 Endorsement of Primary Insurance: Each policy except Workers' Compensation Insurance must contain an endorsement that the policy is primary insurance to any other insurance available to additional insured with respect to claims arising under the Contract.

S50-C24671 / Letter of Clarification No. 2
69th Street Wastewater Treatment Plant Pump Station, Digester and Thickener Blower
Switchgears, Sub-Station and Starter Replacement for the Public Works and
Engineering Department

REVISED 10/22/2013



GENERAL NOTES:

1. CONTRACTOR SHALL REFER TO THE LIST OF EQUIPMENT TO BE REMOVED BY OWNER AND REMOVED BY CONTRACTOR. THE REMOVAL OF THE EQUIPMENT DEMONSTRATED ON THIS SHEET IS THE CONTRACTOR'S RESPONSIBILITY. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL MATERIALS NOT REMOVED BY OWNER.
2. REFER TO SPECIFICATION SECTION 31.00 FOR DEMOLITION AND REFINISHING REQUIREMENTS. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL MATERIALS NOT REMOVED BY OWNER. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL MATERIALS NOT REMOVED BY OWNER.

NOTES BY STAKE:

1. REMOVE ALL MATERIALS FROM EXISTING CONCRETE SLAB. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL MATERIALS NOT REMOVED BY OWNER.
2. REMOVE CONCRETE FROM PUMP STATION. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL MATERIALS NOT REMOVED BY OWNER.
3. REMOVE ALL MATERIALS FROM EXISTING CONCRETE SLAB. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL MATERIALS NOT REMOVED BY OWNER.
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8. REMOVE ALL MATERIALS FROM EXISTING CONCRETE SLAB. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL MATERIALS NOT REMOVED BY OWNER.

NO.	DESCRIPTION	DATE
1	ISSUED FOR APPROVAL	10/22/13
2	REVISION	

CP&Y
 CONSULTING ENGINEERS
 101715
 10/17/13

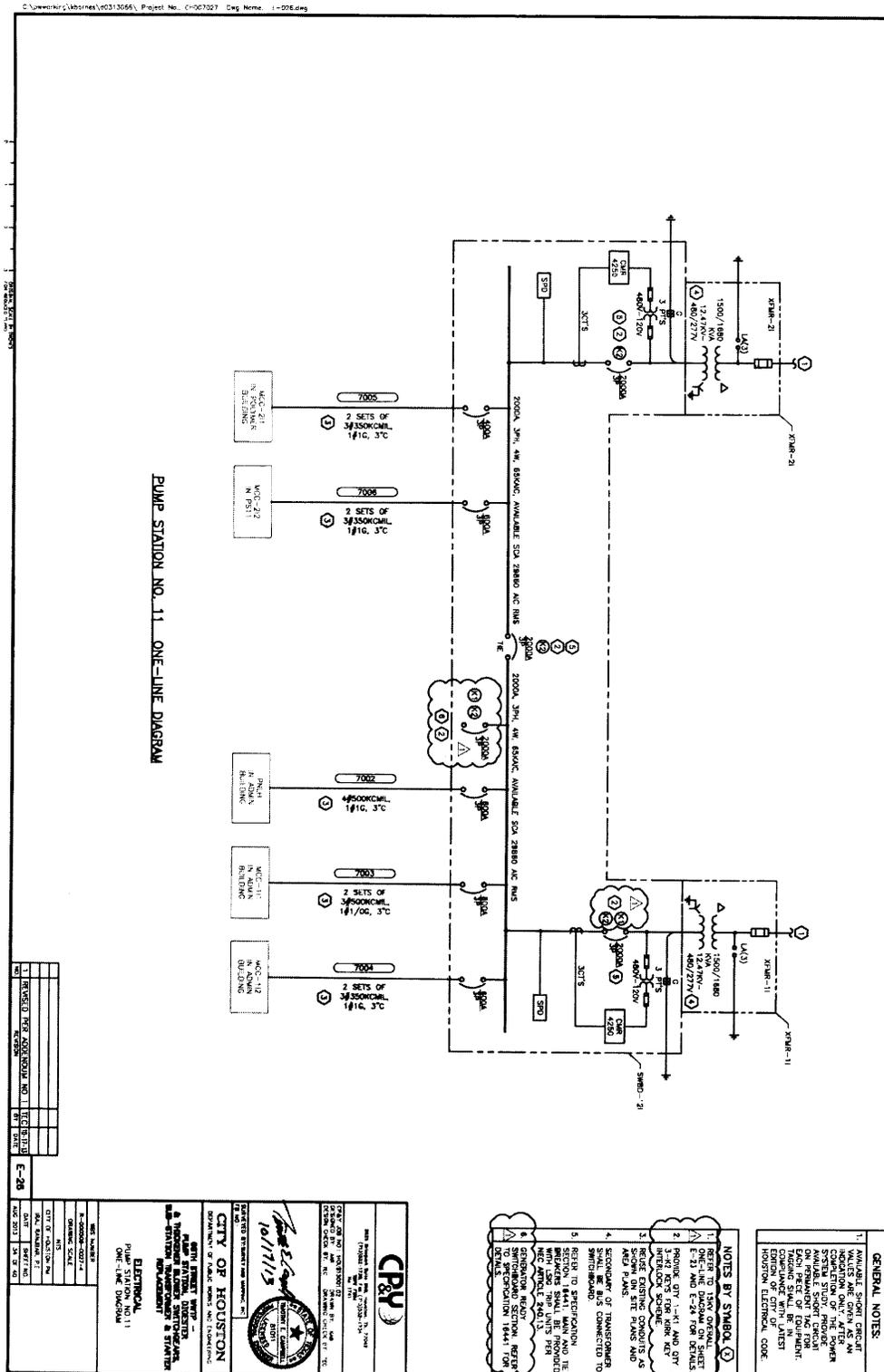
CITY OF HOUSTON
 DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE
 69th STREET WASTEWATER TREATMENT PLANT
 PUMP STATION NO. 11 DEMOLITION

ELECTRICAL

PUMP STATION NO. 11 DEMOLITION

S50-C24671 / Letter of Clarification No. 2
69th Street Wastewater Treatment Plant Pump Station, Digester and Thickener Blower
Switchgears, Sub-Station and Starter Replacement for the Public Works and
Engineering Department

REVISED 10/22/2013



GENERAL NOTES:

1. REFER TO THE CITY OF HOUSTON ELECTRICAL CODE FOR ALL ELECTRICAL REQUIREMENTS AND SPECIFICATIONS.
2. INDICATION ONLY AFTER SYSTEM STUDY PHASE FOR REMANUFACTURING ACTION ON EACH SET OF EQUIPMENT. COMPARE WITH LATEST HOUSTON ELECTRICAL CODE.

NOTES BY SYMBOL:

1. REFER TO SPECIFICATION SECTION 18441 FOR DETAILS.
2. PROVIDE QTY 1-41 AND QTY 3-42 REFER FOR MARK KEY.
3. REFER TO SPECIFICATION SECTION 18441 FOR DETAILS.
4. REFER TO SPECIFICATION SECTION 18441 FOR DETAILS.
5. REFER TO SPECIFICATION SECTION 18441 FOR DETAILS.
6. REFER TO SPECIFICATION SECTION 18441 FOR DETAILS.

CRP

10/17/13

CITY OF HOUSTON

DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

ELECTRICAL

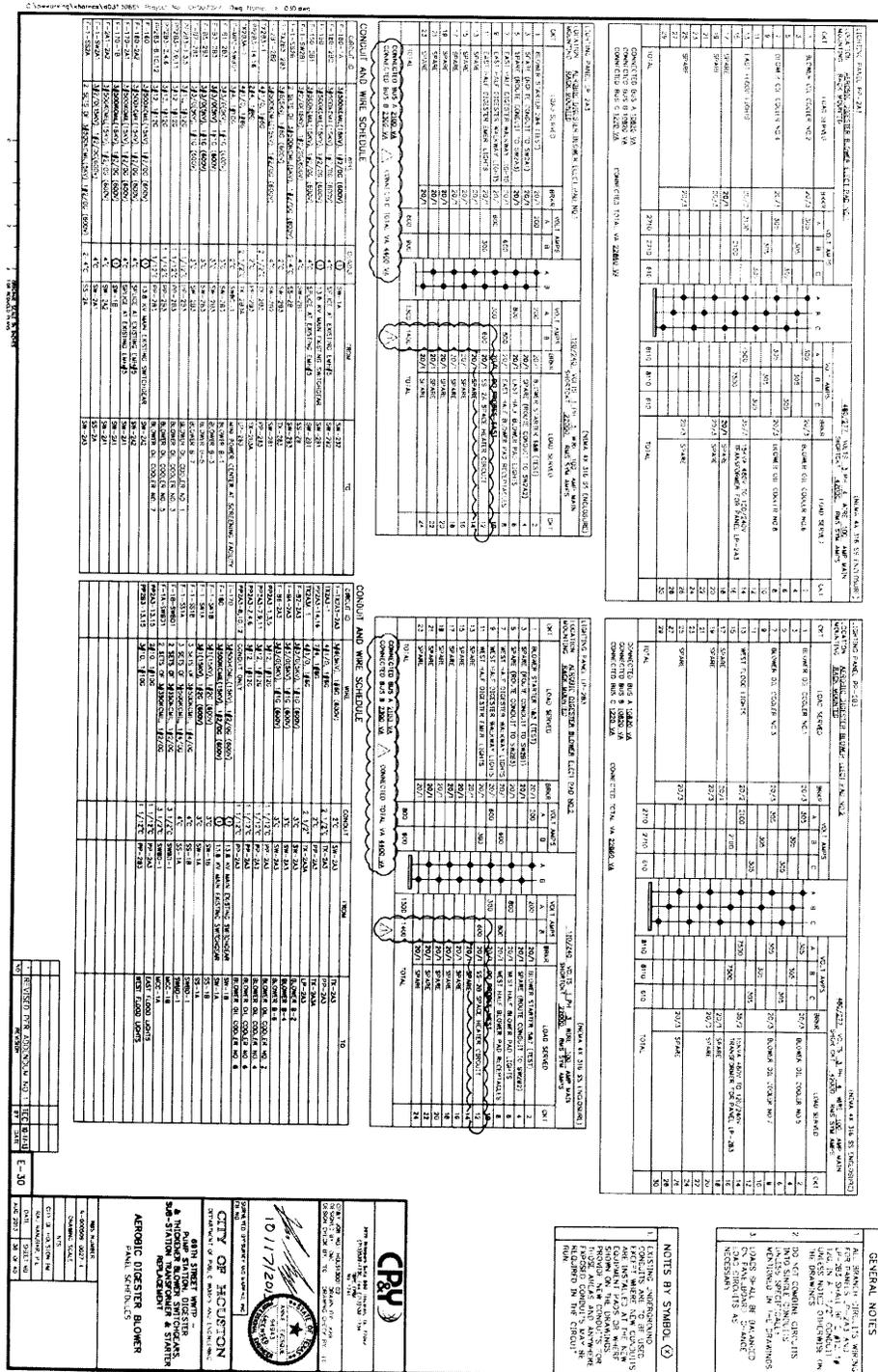
PUMP STATION NO. 11

ONE-LINE DIAGRAM

NO.	REVISION	DATE	BY	CHKD.
1	REVISED PER ADDENDUM NO. 1	10/22/13		

S50-C24671 / Letter of Clarification No. 2
69th Street Wastewater Treatment Plant Pump Station, Digester and Thickener Blower Switchgears, Sub-Station and Starter Replacement for the Public Works and Engineering Department

REVISED 10/22/2013



A PDF version of the REVISED Contract Drawings can be viewed on the following web link
<https://purchasing.houstontx.gov/buyer/BidDocumentManager.aspx?id=C24671>

END OF DOCUMENT