

**ADDENDUM NO. 1
TO
PLANS AND SPECIFICATIONS
FOR THE
WASTEWATER TREATMENT IMPROVEMENTS

SWEET SPRINGS, MISSOURI**

TO ALL PLAN HOLDERS:

This Addendum No. 1 shall be attached to and become part of the Contract Documents for the "WASTEWATER TREATMENT IMPROVEMENTS – SWEET SPRINGS, MISSOURI" project. The Specifications and Plans shall be changed and added to as follows:

GENERAL

1. **Pre-Bid Conference:** A pre-bid conference was held on January 4th, 2018. An attendee list is attached.
2. **Award Procedure Note:** Funding for the project is by UDSA and DNR. Concurrence of Award from the agencies will be required prior to award to the successful bidder.
3. **Existing Equipment Notes:** All existing equipment to be removed shall be salvaged to the City of Sweet Springs. Contractor to load aerators onto a city trailer at the lagoon. City will remove from the site.
4. **Existing Lagoon Notes:** The existing aerated cell has a depth of 7.67', sludge is estimated at 7' of total depth. The existing baffled lagoon has a depth of 3.46'. Sludge depth is estimated at 3' of total depth. Existing lagoon cells have a clay liner – thickness is unknown. Should any damage occur to the existing liners during construction, it must be repaired by contractor with clay, bentonite or other acceptable means.

Should the sludge removal alternates not be awarded, the city can lower the level of the lagoon by 1'.

BIDDING AND CONTRACT DOCUMENTS

1. **Bid Form, EJCDC C410:** A revised Bid Form is attached. Bidders shall use the revised bid form to complete their bid.
2. **Supplementary Conditions:** Add the following:

SC 15.08.A.5: Bid Item Numbers 10 & 13 shall be supplier provided with factory certified installation for maintain single unit responsibility. Supplier/installer shall provide **TWO YEAR PARTS AND LABOR WARRANTY.**

TECHNICAL SPECIFICATIONS

1. **Section 44 44 73, Paragraph 2.01.A:** Last sentence shall read "Manufacturers: Enaqua (Model EM4), Trojan Technologies, or approved equal.

DRAWINGS

1. **Drawings C101, C103, C104, C105 (Sheets 3,5,6 & 7/15):** All piping shall be Class 52 Ductile Iron. All fittings shall be mechanical joint with retainer gland, all remaining pipe shall be bell and socket DIP.

2. **Drawing C103 (Sheet 5/15):** Air piping shall be Class 52 DIP, unlined.
3. **Drawing C104 (Sheet 6/15):** Remove 10" Plug valve on emergency overflow.
4. **Drawings C201 & C202 (Sheets 8 & 9/15):** Rock berm core may be eliminated by contractor if their selected means and methods of construction all and will ensure proper construction with earth only. Rock core shall be eliminated if the add alternate to remove sludge from the existing cell is awarded. Since the cell will be dewatered for sludge removal, conventional construction will be enabled.

All soil for earthwork operations must be imported to the site. There is no available on site material.

5. **Drawing C505 (Sheet 15/15):** Detail 1 – detail is 1"-20', not NTS.
6. **Drawing C505 (Sheet 15/15):** Control wiring shall be capable of a 4-20mA signal. Conduit shall be ¾" minimum. Control wiring shall be in separate conduit from power supply.

In general the control and electrical distribution is clarified as follows (where "conduit" is mentioned, it means conduit and required conductors/control wire):

- a. KCP&L has been contacted for the service upgrade. The contractor shall install a new meter stand adjacent to the existing transformer pole in accordance with the attached KCP&L Standard. 3" conduit shall be extended to the existing pole and installed per KCP&L Standards. NOTE: Service is 120/208V Three phase even though the detail from KCP&L notes 120/240V.
- b. Control panel shall be mounted adjacent to the KCP&L meter stand, but separate. Panel shall be mounted in similar fashion to the meter stand.
- c. Power shall be ran from the control panel to the decant actuator valves conductors for both valves can be ran in the same conduit. If pull boxes are required for installation of the wire, contractor shall provide them. Pull boxes shall be quazite or approved equal.
- d. Control shall be ran from the control panel to the level sensor at the decanter in a dedicated conduit. If pull boxes are required for installation of the wire, contractor shall provide them. Pull boxes shall be quazite or approved equal.
- e. A dedicated conduit shall be ran for the airlift pump 110 voltage. A separate dedicated conduit shall be ran for the airlift control. All are from the control panel. If pull boxes are required for installation of the wire, contractor shall provide them. Pull boxes shall be quazite or approved equal0
- f. A dedicated conduit shall be ran for the sludge pump supply voltage from control panel. Pump actuated by local floats. If pull boxes are required for installation of the wire, contractor shall provide them. Pull boxes shall be quazite or approved equal.
- g. A dedicated conduit shall be supplied from the control panel to each blower. If pull boxes are required for installation of the wire, contractor shall provide them. Pull boxes shall be quazite or approved equal. Each blower shall be supplied with a local non-fused disconnect.
- h. A dedicated conduit shall be supplied from the control panel to the UV system. A dedicated conduit for control shall be supplied. If pull boxes are required for installation of the wire, contractor shall provide them. Pull boxes shall be quazite or approved equal.
- i. Supply dedicated control conduit to flow meter for airlift structure from control panel. If pull boxes are required for installation of the wire, contractor shall provide them. Pull boxes shall be quazite or approved equal.

TO ALL PLAN HOLDERS
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January 9, 2018

Addendum No. 1

If you have any questions, please contact Michael Hall by email at mhall@mecresults.com or by phone at 573-814-1568.

Sincerely,

McCLURE ENGINEERING COMPANY



Michael M. Hall, P.E., M.ASCE
Senior Project Manager



Jan. 9, 2018

Enclosures: Pre Bid attendance List
Bid Form, EJCDC C410
KCP&L Meter Stand

END OF ADDENDUM #1

PREBID MEETING

PROJECT: WASTEWATER TREATMENT PLANT IMPROVEMENTS

DATE/TIME: THURSDAY, JANUARY 4, 2018 - 10:00 A.M.

LOCATION: 324 S. MILLER STREET, SWEET SPRINGS, MISSOURI

PREBID MEETING ATTENDANCE:

| <u>NAME</u> | <u>REPRESENTING</u> | <u>EMAIL</u> |
|-------------------|-----------------------------|------------------------------------|
| Steve Case | Irvinbilt | joegarrison@irvinbilt.com |
| BUD KONIECNY | TG RANKIN CO | BUD@TGRANKIN.COM |
| Daragl Smith | Smico | Smicoconstruction@yahoo.com |
| SCOTT HEUTGES | EDI-AW | SCOTT.HEUTGES@wastewater ecc |
| Tim Carter | EDI | tim.carter@wastewater.com |
| Dave McClure | Fluid Equipment | dmcclure@fluidequip.com |
| PATRICK ELY | EDI | Patrick.Ely@wastewater .com |
| Loni Meier | Nutriject Systems | loni@nutriject.com |
| BART FISHER | KAT EXCAVATION | bfisher@katexcavation.com |
| Zack Kallefleiter | All Pro Electrical | zkallefleiter@allproelectrical.com |
| Kyle Eichler | Do-Rite Const. & Excavating | kye@do-riteconstruction.com |
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BID FORM
City of Sweet Springs, Missouri
Wastewater Treatment Improvements
Contract Identification and Number: #007380

ARTICLE 1 – BID RECIPIENT

1.01 This Bid is submitted to:

The City of Sweet Springs, Missouri, 324 S. Miller Street, Sweet Springs, Missouri 65351

1.02 The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an Agreement with Owner in the form included in the Bidding Documents to perform all Work as specified or indicated in the Bidding Documents for the prices and within the times indicated in this Bid and in accordance with the other terms and conditions of the Bidding Documents.

ARTICLE 2 – BIDDER’S ACKNOWLEDGEMENTS

2.01 Bidder accepts all of the terms and conditions of the Instructions to Bidders, including without limitation those dealing with the disposition of Bid security. This Bid will remain subject to acceptance for ~~60~~ **90** days after the Bid opening, or for such longer period of time that Bidder may agree to in writing upon request of Owner.

ARTICLE 3 – BIDDER’S REPRESENTATIONS

3.01 In submitting this Bid, Bidder represents that:

A. Bidder has examined and carefully studied the Bidding Documents, and any data and reference items identified in the Bidding Documents, and hereby acknowledges receipt of the following Addenda:

| <u>Addendum No.</u> | <u>Addendum, Date</u> |
|---------------------|-----------------------|
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |

B. Bidder has visited the Site, conducted a thorough, alert visual examination of the Site and adjacent areas, and become familiar with and satisfied itself as to the general, local, and Site conditions that may affect cost, progress, and performance of the Work.

C. Bidder is familiar with and has satisfied itself as to all Laws and Regulations that may affect cost, progress, and performance of the Work.

D. Bidder has carefully studied all: (1) reports of explorations and tests of subsurface conditions at or adjacent to the Site and all drawings of physical conditions relating to existing surface or subsurface structures at the Site that have been identified in the Supplementary Conditions, especially with respect to Technical Data in such reports and drawings, and (2) reports and drawings relating to Hazardous Environmental Conditions, if any, at or adjacent to the Site that have been identified in the Supplementary Conditions, especially with respect to Technical Data in such reports and drawings.

- E. Bidder has considered the information known to Bidder itself; information commonly known to contractors doing business in the locality of the Site; information and observations obtained from visits to the Site; the Bidding Documents; and any Site-related reports and drawings identified in the Bidding Documents, with respect to the effect of such information, observations, and documents on (1) the cost, progress, and performance of the Work; (2) the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder; and (3) Bidder's safety precautions and programs.
- F. Bidder agrees, based on the information and observations referred to in the preceding paragraph, that no further examinations, investigations, explorations, tests, studies, or data are necessary for the determination of this Bid for performance of the Work at the price bid and within the times required, and in accordance with the other terms and conditions of the Bidding Documents.
- G. Bidder is aware of the general nature of work to be performed by Owner and others at the Site that relates to the Work as indicated in the Bidding Documents.
- H. Bidder has given Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder has discovered in the Bidding Documents, and confirms that the written resolution thereof by Engineer is acceptable to Bidder.
- I. The Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for the performance and furnishing of the Work.
- J. The submission of this Bid constitutes an incontrovertible representation by Bidder that Bidder has complied with every requirement of this Article, and that without exception the Bid and all prices in the Bid are premised upon performing and furnishing the Work required by the Bidding Documents.

ARTICLE 4 – BIDDER'S CERTIFICATION

4.01 Bidder certifies that:

- A. This Bid is genuine and not made in the interest of or on behalf of any undisclosed individual or entity and is not submitted in conformity with any collusive agreement or rules of any group, association, organization, or corporation;
- B. Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid;
- C. Bidder has not solicited or induced any individual or entity to refrain from bidding; and
- D. Bidder has not engaged in corrupt, fraudulent, collusive, or coercive practices in competing for the Contract. For the purposes of this Paragraph 4.01.D:
 - 1. "corrupt practice" means the offering, giving, receiving, or soliciting of any thing of value likely to influence the action of a public official in the bidding process;
 - 2. "fraudulent practice" means an intentional misrepresentation of facts made (a) to influence the bidding process to the detriment of Owner, (b) to establish bid prices at artificial non-competitive levels, or (c) to deprive Owner of the benefits of free and open competition;
 - 3. "collusive practice" means a scheme or arrangement between two or more Bidders, with or without the knowledge of Owner, a purpose of which is to establish bid prices at artificial, non-competitive levels; and

4. “coercive practice” means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the bidding process or affect the execution of the Contract.

ARTICLE 5 – BASIS OF BID

5.01 Bidder will complete the Work in accordance with the Contract Documents for the following price(s):

| Item No. | Description | Unit | Estimated Quantity | Unit Price | Total Estimated Price |
|----------|---|------|--------------------|------------|-----------------------|
| 1 | General Conditions – Bonds, Insurance, etc. | LS | 1 | \$ | \$ |
| 2 | Mobilization/Demobilization | LS | 1 | \$ | \$ |
| 3 | Primary Cell - Earthwork | LS | 1 | \$ | \$ |
| 4 | Primary Cell – Rock Lining | LS | 1 | \$ | \$ |
| 5 | Old Aeration Cell – Cleanout | LS | 1 | \$ | \$ |
| 6 | Intake Structure (Headworks) Modifications | LS | 1 | \$ | \$ |
| 7 | Sludge Decant Pumps, Structure - Complete | LS | 1 | \$ | \$ |
| 8 | Sludge Decant Bridge - Complete | LS | 1 | \$ | \$ |
| 9A* | WAS Airlift Components – Complete | LS | 1 | \$ | \$ |
| 9B | WAS Airlift Structure – Complete | LS | 1 | \$ | \$ |
| 10** | Primary Cell Aeration System Diffusers, Anchors - Complete | LS | 1 | \$ | \$ |
| 11* | Primary Cell Decant System – Assembly, Valves | LS | 1 | \$ | \$ |
| 12 | Primary Cell Decant System – Valve Pit | LS | 1 | \$ | \$ |
| 13** | Primary Cell – Attached Growth Curtains, Anchors – Complete | LS | 1 | \$ | \$ |
| 14* | Primary Cell Aeration System Blower – Pad & Piping | LS | 1 | \$ | \$ |
| 15 | Site Piping and Valves | LS | 1 | \$ | \$ |
| 16 | Site Electrical | LS | 1 | \$ | \$ |
| 17* | System Controls - Complete | LS | 1 | \$ | \$ |
| 18 | New Electric Service – Pole, Drop, Riser - Complete | LS | 1 | \$ | \$ |
| 19 | Ultraviolet Disinfection System and Chamber | LS | 1 | \$ | \$ |
| 20 | Outfall Piping Modifications - Complete | LS | 1 | \$ | \$ |

| | | | | | |
|--|-------------------------------------|----|---|----|----|
| 21 | Gravel Road Repair | LS | 1 | \$ | \$ |
| 22 | Turf Restoration | LS | 1 | \$ | \$ |
| 23 | Erosion Control | LS | 1 | \$ | \$ |
| 24 | USDA Rural Development Project Sign | LS | 1 | \$ | \$ |
| Total of All Unit Price Bid Items | | | | | \$ |

* Bid Item Numbers 9A, 11, 14 & 17 shall be supplier provided.

** Bid Item Numbers 10 & 13 shall be supplier provided with factory certified installation for maintain single unit responsibility. Supplier/installer shall provide **TWO YEAR PARTS AND LABOR WARRANTY.**

Bidder acknowledges that (1) each Bid Unit Price includes an amount considered by Bidder to be adequate to cover Contractor's overhead and profit for each separately identified item, (2) estimated quantities are not guaranteed, and are solely for the purpose of comparison of Bids, and final payment for all unit price Bid items will be based on actual quantities, determined as provided in the Contract Documents., and (3) Total of All Unit Price Bid Items includes all work, specific, or incidental, that is shown on the plans and are necessary to make a complete and operational system.

Total of Unit Price Bids = Total Bid Price \$ _____

5.02 **ALTERNATES:** The OWNER requests alternate bids as follows below. The OWNER reserves the right to evaluate the bids with or without the alternates and to their best advantage. Since there are multiple alternates, they are listed in priority. HOWEVER; the OWNER may elect to award based on no alternates, all or any combination of alternates

ADD ALTERNATE #1 – SLUDGE REMOVAL AND DISPOSAL EXISTING AERATED CELL

The OWNER requests an add alternate to the base bid to remove the sludge from the existing aerated lagoon cell and disposal by land application. The CONTRACTOR shall be responsible for all sludge removal, hauling, securing application site, application and all required regulatory compliance for biosolids. CONTRACTOR shall provide ENGINEER and OWNER with verification of regulatory compliance. NOTE: biosolids testing in these contract documents are over one year old. CONTRACTOR shall provide OWNER and ENGINEER with biosolids management plan for approval prior to commencing operations.

| Item No. | Description | Unit | Estimated Quantity | Unit Price | Total Estimated Price |
|----------|---|------|--------------------|------------|-----------------------|
| A1 | Alternate A1 – Sludge Removal and Disposal, Existing Aerated Cell | GAL | 500,000 | \$ | \$ |

CONTRACTOR shall be limited to the quantity above and shall not be paid for any overages with out a prior fully executed CHANGE ORDER.

ADD ALTERNATE #2 – SLUDGE REMOVAL AND DISPOSAL EXISTING BAFFLED CELL

The OWNER requests an add alternate to the base bid to remove the sludge from the existing baffled lagoon cell and disposal by land application. The CONTRACTOR shall be responsible for

all sludge removal, hauling, securing application site, application and all required regulatory compliance for biosolids. CONTRACTOR shall provide ENGINEER and OWNER with verification of regulatory compliance. NOTE: biosolids testing in these contract documents are over one year old. CONTRACTOR shall provide OWNER and ENGINEER with biosolids management plan for approval prior to commencing operations.

It is believed that there is up to approximately 8,000,000 gallons in the cell. It is anticipated that there may only be funds to remove up to 2,500,000 gallons. Should funds be available for additional removal, it will be added by CHANGE ORDER at the bid unit price.

| Item No. | Description | Unit | Estimated Quantity | Unit Price | Total Estimated Price |
|----------|---|------|--------------------|------------|-----------------------|
| A2 | Alternate A2 – Sludge Removal and Disposal, Existing Baffled Cell | GAL | 2,500,000 | \$ | \$ |

CONTRACTOR shall be limited to the quantity above and shall not be paid for any overages without a prior fully executed CHANGE ORDER. Work shall commence in the area of the new cell to be constructed (SE corner of the cell) and work to the NW corner.

ADD ALTERNATE #3 – INSTALL SELF-DEPLOYABLE AND BALLASTED UV BALL COVER TO NEW QUIESCENT CELL

The OWNER requests an add alternate to the base bid to install SELF-DEPLOYABLE AND BALLASTED UV BALL COVER in the quiescent cell (former aerated cell). The product shall be as manufactured by Industrial & Environmental Concepts, Inc Lakeville, MN.

| Item No. | Description | Unit | Estimated Quantity | Unit Price | Total Estimated Price |
|----------|--|------|--------------------|------------|-----------------------|
| A3 | Alternate A3 – Install Self-Deployable and Ballasted UV Ball Cover to New Quiescent Cell | LS | 1 | \$ | \$ |

Add Alternate #3 shall be supplier provided with factory certified installation for maintain single unit responsibility. Supplier/installer shall provide **TWO YEAR PARTS AND LABOR WARRANTY.**

ADD ALTERNATE #4 – TOTAL NITROGEN CONTROL PACKAGE

The OWNER requests an add alternate to the base bid to install a TOTAL NITROGEN CONTROL PACKAGE. This alternate will include the following scope:

VFDs and air conditioners for the panel, additional I/Os for the PLC, HACH DO probe and controller. Installation methodology shall be to mount the DO probe to the decanter using a Float Mount Kit. The cable from the probe will run to a NEMA 4 enclosure next to the decanter valve pit that will house the controller. The controller will require a dedicated 110 V power and a 4-20 signal cable and conduit. Specific equipment includes:

1. Two (2) Rockwell Power Flex 753, VFD, 30 HP, 200/230 VAC, P/N 20F11NB080JA0NNNNN, with 20-COMM-E communications cards.
2. One (1) Ice Qube 5000 BTUH air conditioner, P/N IQ5000-VXS-236-CM-N4-XO.
3. One (1) HACH sc200 Universal Controller
4. One (1) HACH LDO Probe, Model 2
 - a. Includes Float Mount Kit hardware

| Item No. | Description | Unit | Estimated Quantity | Unit Price | Total Estimated Price |
|----------|---|------|--------------------|------------|-----------------------|
| A4 | Alternate A3 – Total Nitrogen Control Package | LS | 1 | \$ | \$ |

Add Alternate #4 shall be supplier provided.

ARTICLE 6 – TIME OF COMPLETION

- 6.01 Bidder agrees that the Work will be substantially complete and will be completed and ready for final payment in accordance with Paragraph 15.06 of the General Conditions on or before the dates or within the number of calendar days indicated in the Agreement.
- 6.02 Bidder accepts the provisions of the Agreement as to liquidated damages.

ARTICLE 7 – ATTACHMENTS TO THIS BID

- 7.01 The following documents are submitted with and made a condition of this Bid:
- A. Required Bid security;
 - B. List of Proposed Subcontractors;
 - C. List of Proposed Suppliers;
 - D. List of Project References;
 - E. Evidence of authority to do business in the state of the Project; or a written covenant to obtain such license within the time for acceptance of Bids;
 - F. Contractor's License No.: [REDACTED] [or] Evidence of Bidder's ability to obtain a State Contractor's License and a covenant by Bidder to obtain said license within the time for acceptance of Bids;
 - G. Required Bidder Qualification Statement with supporting data.
 - H. If Bid amount exceeds \$10,000, signed Compliance Statement (RD 400-6). Refer to specific equal opportunity requirements set forth in the Supplemental General Conditions.
 - I. If Bid amount exceeds \$25,000, signed Certification Regarding Debarment, Suspension, Ineligibility, and Voluntary Exclusion- Lower Tier Covered Transactions (AD-1048);
 - J. If Bid amount exceeds \$100,000, signed RD Instruction 1940-Q, Certification for Contracts, Grants, and Loans.

ARTICLE 8 – DEFINED TERMS

- 8.01 The terms used in this Bid with initial capital letters have the meanings stated in the Instructions to Bidders, the General Conditions, and the Supplementary Conditions.

ARTICLE 9 – BID SUBMITTAL

BIDDER: *[Indicate correct name of bidding entity]*

By: _____

[Signature] _____

[Printed name] _____

(If Bidder is a corporation, a limited liability company, a partnership, or a joint venture, attach evidence of authority to sign.)

Attest: _____

[Signature] _____

[Printed name] _____

Title: _____

Submittal Date: _____

Address for giving notices:

Telephone Number: _____

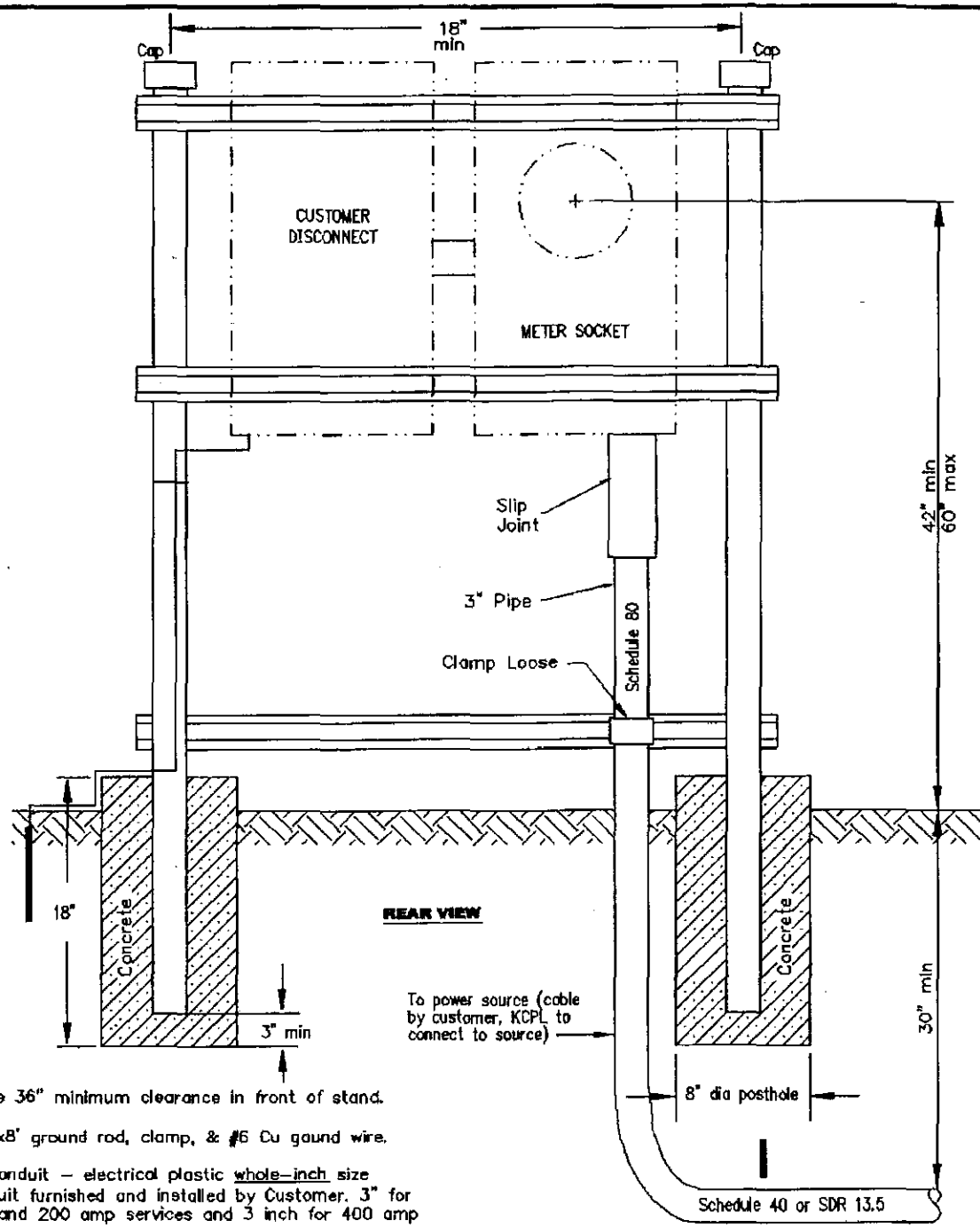
Fax Number: _____

Contact Name and e-mail address: _____

Bidder's License No.: _____

(where applicable)

Customer Self Contained 120/240V Meter Stand



NOTES

- A. Leave 36" minimum clearance in front of stand.
- B. 1/2"x8' ground rod, clamp, & #6 Cu ground wire.
- C. All conduit - electrical plastic whole-inch size conduit furnished and installed by Customer. 3" for 100 and 200 amp services and 3 inch for 400 amp services.
- D. Galvanized unistrut (or equal) length as required (predrilled).
- E. Rigid metallic conduit is required to ensure electrical bonding between meter socket and disconnect.
- F. Install a minimum of 10' in any direction from KCPL pole.
- G. All material on this drawing shall be furnished, installed, and owned by customer.
- H. Position prefabricated conduit slip joint to compensate for soil settling. Leave sufficient slack in service conductors to allow joint to work.



**CUSTOMER SELF CONTAINED
120/240V METER STAND**

DWG REV: 01/19/15 DWG: B20.1-13

