



**Leon Creek WRC Electrical System Improvements Phase I**  
**Solicitation Number: CO-00335**  
**Job No.: 19-6505**

**ADDENDUM 5**  
**July 1, 2020**

To Bidder of Record:

This addendum, applicable to work referenced above, is an amendment to the bid proposal, plans and specifications and as such will be a part of and included in the Contract Documents. Acknowledge receipt of this addendum by entering the Addendum number and issue date on the space provided in submitted copies of the bid proposal.

<b>RESPONSES TO QUESTIONS</b>
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1. In reviewing the specifications for the subject project, there are several references to Division 17 (or Division 40) "Process Integration." However, that section isn't included with the documents and it is also not listed in any of the seal sheets at the front. Is there a "Process Integration" specification section for this project?.

*Response:*

*There is no process integration scope for this project. Refer to #6, #7, #8, and #9 of the changes to specifications.*

2. Specification Section 16120, 2.03 B restricts the single conductor tray rated cables to 250kcmil and larger, however NEC Article 392.10 Paragraph (B) (1) allows Single-conductor cable 1/0 AWG or larger and be permitted to be used in cable tray. As well as equipment grounding single conductors insulated, covered, or bare 4 AWG or larger. Multiconductor cable type MV can also be installed as noted above. Please clarify if tray rated single conductor cables 1/0 & larger can be utilized in trays. If specification section 16120 2.03 B is to be follow strictly as is, then all MV & LV cables smaller than 250 kcmil or with those with ground conductors smaller than 250 kcmil routed via cable tray would have to be multi-conductor cable. Please review and advise if installation per NEC is acceptable.

*Response:*

*Refer to #10 of the changes to specifications. #1/0 and larger will be acceptable for single-conductor installation in cable tray.*

3. Drawing 60E13 added MV Manhole is tagged as EMH-MV5. EMH-MV5 designation is already used on dwg 60E02 between ductbanks 60G, 60J & 60U.

*Response:*

*Refer to #1 of the changes to plans 60E02 and 60E13. This manhole will be revised and tagged as EMH-MV6.*

4. Drawing 60DE05 MCC-7 Area Plan drawing shows a Transformer as well as 2 additional equipment to be demolished. There is no other information regarding this electrical equipment, and they do not show on any other demolition drawings. Please provide further information.

*Response:*

*Those items are not to scale on the drawing. Besides the transformer, there is a disconnect switch and an SPD associated with the MCC, all mounted on a standalone rack next to the MCC. They are all to be demolished and not replaced in this location. (Photos below)*



5. Drawing 60E13 Detail A shows the details for power junction box for the feeds from Transformer T-10 to MCC-6 Main A, as well as future transformer SEL-XFMR-01 to MCC-6 Main B. Are we to install MCC-6 Main B Power J-Box including all spare conduits to the cable tray as shown?

*Response:*

*Yes. Install spare conduits from the box to the cable tray as shown.*

6. Drawings and specifications do not address whether all spare conduits from the ductbanks in the Electrical building are to be routed to the cable tray or capped above grade. Please clarify.

*Response:*

*All spare conduits entering the building are to be capped above grade. Also, conduits shall be labeled per the Specifications.*

7. Does the Power System Study include Load Flow?

*Response:*

*Specification 16105 requires short circuit study, coordination study, and arc flash hazard study. No load flow study is required.*

8. In looking at the project specifications, we noticed that Siemens is not listed as an acceptable manufacturer for the following products:

- 1) Section 16196 – Surge Protective Devices
- 2) Section 16345 – Medium Voltage Metal Clad Switchgear
- 3) Section 16480 – Motor Control Centers

Siemens is typically allowed to be these products for SAWS projects. Has there been a specific request from the Owner that Siemens not be listed as acceptable to bid this project? If not, would it be possible to add Siemens to the list of acceptable manufacturers?

If there are specific reasons for not listing Siemens, I would like to be aware of them to better serve Gupta and SAWS moving forward?

*Response:*

*The manufacturer listing shown in Sections 16196 has been modified to include Siemens. Please refer to #11 of the Changes to Specifications shown herein.*

*The manufacturer listing of Sections 16345 and 16480 does not include Siemens. Should the Contractor wish to propose Siemens for the equipment provided under Sections 16345 or 16480, then the Contractor will need to follow the substitution process described in Section 01300-1.09 after bid award. Please know that General Conditions 5.11 states "Contractor's substitution of materials, equipment and/or fixtures shall not be made without prior written approval from the Consultant, and the Owner Requests for substitutions will not be accepted from anyone except the Contractor nor accepted (if appropriate) until after the Contract has been awarded".*

*Please know that as described in the technical specifications, Siemens is included in the manufacturer listing in multiple other technical specifications of this project other than those technical sections mentioned in this question/response.*

## CHANGES TO THE SPECIFICATIONS

- 1. INVITATION TO BIDDERS.** The last paragraph of the Invitation to Bidders is deleted in its entirety and replaced with the following:

**"Due to the COVID-19 emergency and to protect the health of the public, SAWS is implementing new procedures for the submission of bids. Bids will be received either Electronically or through Sealed bids, until 2:00 PM (CDT), July 13, 2020. Electronic bids will be received via the secure SAWS FTP site. Sealed bids will be received by Contract Administration, 2800 U.S. Hwy 281 North, Tower II, Customer Center Building, via a drop box located on the left wall when walking through the first set of double glass doors of the main Tower II entry on the north side of the building, San Antonio, Texas 78212. See the Electronic Bid Opening Instructions attachment for additional information regarding an electronic bid submittal. Electronic bids shall be accompanied by a bid bond in an amount not less than five percent of the total bid price. (Or, if providing SAWS with a cashier's check or certified check in an amount not less than five percent of the total bid price, SAWS will request this within 24 hours from the apparent low bidder. Sealed bids must be accompanied by a cashier's check, certified check, or bid bond in an amount not less than five percent of the total bid price. Bids will then be publicly opened and read aloud by Contract Administration via WebEx.**

If Bidders intend to submit bids electronically, Bidders will need to submit a request by **July 10, 2020 2:00 PM CDT** to receive access to the File Transfer Protocol (FTP) site via email to [roxanne.lockhart@saws.org](mailto:roxanne.lockhart@saws.org). Bidder's email requesting access to the FTP site shall provide the legal name of Bidder's company and the intended recipient's email address and phone number. No requests for FTP site access will be accepted after **July 10, 2020 2:00 PM (CDT)**.

- 2. BID PACKET CHECKLIST.** The Bid Packet Checklist is hereby deleted in its entirety and replaced with the revised Bid Packet Checklist attached to this Addendum.
- 3. INSTRUCTIONS TO BIDDERS** Sections 1, 2, 4 and 24 are hereby deleted in their entirety and replaced with the following:

"1. Bids will be submitted in accordance with the following:

- Electronic bids will be received by Contract Administration in the SAWS secured File Transfer Protocol (FTP) site. Personal/hand delivered sealed bids will be received by Contract Administration via a drop box located on the left wall when walking through the first set of double glass doors of the main Tower II**

**entry on the north side of the building** at San Antonio Water System, 2800 U.S. Hwy 281 North, Customer Center Building, Suite 141, San Antonio, Texas 78212. **All** bids will be received until the time specified in the Invitation to Bidders.

- b. If the submittal of a **hardcopy** sealed bid is by any means other than personal/hand delivery, then it is the bidder's sole responsibility to ensure the bid is delivered to San Antonio Water System, 2800 U.S. Hwy 281 North, San Antonio, Texas 78212, no later than the exact time specified in the Invitation to Bidders.
  - c. All bids errantly submitted or delivered to a location other than the exact locations stated above will be returned/ deleted and unopened.
  - d. All bids received after the exact time set for the bid opening in the Invitation to Bidders will be returned/ deleted and unopened.
  - e. The San Antonio Water System Contracting Office may, at its sole discretion, without waiver of rights or authority, in equity or at law, return or delete any unopened bids not meeting the exact requirements as stated above.
2. Bids will be opened in accordance with the following:
- a. Bids will be opened **in a public WebEx meeting** and read aloud by a Contract Administration representative. Instruction on how to participate in this public WebEx meeting can be found in the Electronic Bid Opening Instructions.
  - b. The lowest bid received at the time of the bid opening shall be designated as the "apparent low bid," whether announced in that manner or not, and shall not represent an acceptance of an offer.
  - c. All bid results are unofficial, tentative and subject to verification on the day of the bid opening.
  - d. No bid may be withdrawn after the scheduled bid opening time without the written consent of a Contract Administration representative.
  - e. The "official" bid results will be tallied on a "bid tabulation sheet" and posted within 10 business days of the bid opening on the San Antonio Water System's website.
4. **Electronic** bids submitted on the original bid form attached herein must be titled with the solicitation number, date and time of the bid opening, and the project name. **Hardcopy** bids submitted on the original bid form attached herein must be sealed in an envelope plainly marked on the outside with solicitation number, the date and time of the bid opening, and project name.
24. To assist the San Antonio Water System Contracting Office in performing the bidder evaluation and subsequent recommendation of award, the apparent low bidder must submit upon request the following items within one (1) day of the bid opening. Failure to provide the required information within the specific time, may result in determining a non-responsive bidder:
- (a) An information packet on company showing experience, organization and equipment
  - (b) A statement regarding ability to complete the project within the schedule taking into account existing commitments.
  - (c) Record of performance on three (3) similar projects completed within the last 5 years including name of project, amount of project, project duration, name, address, and telephone number of contact person for each project.
  - (d) A completed and signed W-9 Request for Taxpayer Identification Number and Certification form.
  - (e) **A completed Good Faith Effort Plan.**
  - (f) **Conflict of Interest Questionnaire - Form CIQ**
  - (g) **Proof of Insurability (Letter from Insurer or Sample Certificate of Insurance)**
  - (h) **For projects with a construction estimate of \$10,000,000 or greater:**  
A complete financial statement for your organization that was prepared within the past 12 months, by an independent Certified Public Accountant, and a point of contact for your banking institution.

All other sections of the Instructions to Bidders shall remain the same.

4. Insert the TWDB SRF-404 form, Certification Regarding Debarment, Suspension, and Other Responsibilities Matters after the ED-104 form.
5. Remove "Schedule of Manufacturers and Suppliers" in its entirety and replace with the attached.
6. Section 02220:
  - a. Page 6, 3.04.A: Remove the phrase, "and applicable Sections of Division 17, Process Integration."
7. Section 15051:
  - a. Delete paragraph 1.01.B.2: "Coordinate with appropriate piping Sections of Division 17, Process Integration."
  - b. Delete paragraph 1.01.C.3: "Applicable Sections of Division 17 Process Integration."
  - c. Delete second sentence in paragraph 2.01.A: "Piping materials shall conform to Specifications for each type of pipe and piping appurtenances in applicable Sections of Division 17, Process Integration."
8. Section 15052
  - a. Delete second sentence in paragraph 2.01.A: "Piping materials shall conform to Specification for each type of pipe and piping appurtenances in applicable sections of Division 40, Process Integration."
9. Section 15490
  - a. Delete section 3.04.A: "Material Schedule shall be as specified under applicable Sections of Division 17, Process Integration."
10. Section 16120:
  - a. Delete paragraph 2.03.B
  - b. Replace with: "B. Tray rated cable includes single conductor #1/0 AWG and larger, and multiconductor for sizes smaller than #1/0."
11. Section 16196
  - a. Add 2.01.A: "5. Siemens"
  - b. Renumber 2.01.A.5 to "6. Approved Equal"
12. Section 16345
  - a. Delete 2.01.A.4

<b>CHANGES TO THE PLANS</b>
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1. Remove drawings 60E02 and 60E13 and replace with the attached that modify the MV Manhole on the north side of the new building tagged as EMH-MV5 to EMH-MV6.

<b>CLARIFICATIONS</b>
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1. To minimize travel and the need for Bidders to hand deliver bids during the COVID19 Emergency, SAWS has provided the option to Bidders to submit bids electronically. See the Electronic Bid Opening Instructions attached to this Addendum. Bidders may still hand deliver bids if they wish and as provided for in this Addendum, but shall only

submit the items as indicated on the revised Bid Proposal Checklist in the initial bid packet. Reference the revised Bid Proposal Checklist attached to this Addendum.

2. If Bidders opt to submit their bids electronically, SAWS has provided the Excel version of the List of Bid Items file, which will be made available for download on the SAWS solicitation website. The List of Bid Items shall be accompanied by the Bid Proposal Signature Page and Proposal Certification page. Reference the revised Bid Proposal Checklist attached to this Addendum.
3. The public Bid Opening will be conducted on video via a WebEx meeting. See the Electronic Bid Opening Instructions attached to this Addendum.
4. The SRF-404 is a required TWDB form that shall be provided by the apparent low bidder after the Bid Opening and upon request by SAWS.


**END OF ADDENDUM**


This Addendum, including these six (6) pages, is fifteen (15) pages with attachments in its entirety.

Attachments:

Specifications: 4 section, total 7 pages

Drawings: 2 pages, 11x17 (HALF SIZE)

  
William D. Sako, P.E.  
Gupta & Associates, Inc.  
TBPE # F-2593

  
7/1/2020



**LEON CREEK WRC ELECTRICAL SYSTEM IMPROVEMENTS PHASE I**  
**Solicitation Number: CO-00335**

**ELECTRONIC BID OPENING INSTRUCTIONS**  
**July 13, 2020 at 2:00 PM (CDT)**

**FTP BID PROPOSAL UPLOAD**

In order to receive electronic bids for this project, SAWS will utilize a SAWS secured File Transfer Protocol (FTP) site. Only Bidders bidding as Prime Contractors will need to submit their request prior to **July 10, 2020 at 2:00 PM** to receive access to the FTP site via email to [roxanne.lockhart@saws.org](mailto:roxanne.lockhart@saws.org). Bidder's email shall provide the legal name of the Bidder's company and the intended recipient's email address and phone number. No requests for FTP site access will be accepted after **July 10, 2020 at 2:00 PM (CDT)**. Once a Bidder is approved for access, an email with a hyperlink to the FTP site and a unique password for the Bidder will be provided to the Bidder's email recipient.

Once access is received, Bidders may upload the required documents per the Bid Proposal checklist any time before **July 13, 2020 at 2:00 PM (CDT)**. Please ensure to allow sufficient time should Bidder's experience technical difficulties in uploading the required documents. No changes to the Bid nor bid price can be made once the Bid has been submitted.

**Bidders shall comply with the following:**

- 1) Limit files to one (1) pdf file that includes all requested documents, per the Bid Packet Checklist. **ONLY ONE SUBMITTAL WILL BE ACCEPTED PER REQUEST.** Do not upload any zip files.
- 2) Ensure that the itemized List of Bid Items is (are) the first page(s) of your file.
- 3) Bidders may protect the document from editing by adding a password. However, the document must be accessible for viewing by SAWS without requiring a password.
- 4) File shall be named: **CO-00335 – LEON CREEK WRC ELECTRICAL SYSTEM IMPROVEMENTS PHASE I**
- 5) **DO NOT SHARE ACCESS AND/OR PASSWORD WITH OTHER PARTIES OUTSIDE YOUR COMPANY.**
- 6) **ENSURE THE BID IS SENT NO LATER THAN THE DUE DATE AND TIME. BIDS SUBMITTED AFTER THE BID OPENING DEADLINE WILL NOT BE ACCEPTED.**

If the Bidder is in need of help, they may contact the SAWS Contract Administrator, **Roxanne Lockhart**, at **210-233-3095** or view troubleshooting tips at <http://www.Serv-U.com/sharefiles>

**WEBEX BID OPENING MEETING**

The WebEx meeting details are below if you would like to view the public opening of the bids.

When it's time, start or join the WebEx meeting from [here](#).

*Access Information*

Meeting Number: **146 926 8267**

Meeting Password: **UxBuggy2P97**

Audio Connection: +1-469-210-7159 United States Toll (Dallas)

+1-408-418-9388 United States Toll

If you have any questions or concerns, please feel free to contact me.

Thank you,

**Roxanne Lockhart**

Contract Administrator

2800 U.S. Highway 281 North, Ste. 171 | San Antonio, TX 78212

Office | 210-233-3095

Email | [roxanne.lockhart@saws.org](mailto:roxanne.lockhart@saws.org)

**BID PACKET CHECKLIST**  
**LEON CREEK WRC ELECTRICAL SYSTEM IMPROVEMENTS PHASE I**  
**SAWS Job No. 19-6505**  
**SAWS Solicitation No. CO-00335**

**This checklist is a required document that must be utilized and submitted with the Bid Packet. The Bid Packet should include the following items in this order:**

- Signed Bid Proposal Signature Page, Acknowledgement of All Addendums and Executive Order
- List of Bid Items
- Bid Packet Checklist
- Signed Proposal Certification
- Bid Bond
- Completed Good Faith Effort Plan

**\*And, if bid was submitted electronically without a Bid Bond:**

- Cashier's Check or Certified Check

**Items to be submitted Upon Request by SAWS from the Apparent Low Bidder within one (1) day of the bid opening:**

- Completed Good Faith Effort Plan
- Conflict of Interest Questionnaire - Form CIQ (*Rev. 11/30/2015*)
- Proof of Insurability (Letter from Insurer or Sample Certificate of Insurance)
- TWDB Form WRD 225 Bidder's Certificate Form
- TWDB Form TWDB-0459
- Resumes
- Company Information Packet
- Statement regarding ability to complete the project
- W-9
- Statement of Bidder's Experience
- Schedule of Manufacturers and Suppliers
- TWDB SRF-404

**Items to be submitted with Awarded Contract:**

- TWDB Form ED 103
- TWDB Form ED 104



## Debarment / Suspension Certification

I, \_\_\_\_\_, hereby certify that I have checked on the federal  
(Authorized Representative of Recipient)

System for Award Management ([www.sam.gov](http://www.sam.gov)) website and determined that

\_\_\_\_\_ is not shown as an “excluded party” that is debarred,  
(Name of entity)

suspended or otherwise excluded from or ineligible for participation in federal assistance programs under Executive Order 12549. (See 2 CFR Part 180 and 2 CFR Part 1532 for additional information on the federal governmentwide debarment and suspension system for nonprocurement programs and activities.)

I understand that a false statement herein may subject me to penalties under federal and state laws relating to filing false statements and other relevant statutes.

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date



\_\_\_\_\_  
Title

\_\_\_\_\_  
Name of Recipient

**Verifying prime contractors and subcontractors for construction, equipment, supplies and services:** Using the [www.sam.gov](http://www.sam.gov) website, the recipient must verify prior to awarding the contract that the prime contractor is not listed as an “excluded party” that is debarred, suspended or otherwise excluded from or ineligible. Once any subcontractors are known, they also must be verified as not listed as an “excluded party” prior to award of a subcontract. The recipient must print a dated record of the verification from the [www.sam.gov](http://www.sam.gov) website and retain a copy that is available for review by TWDB. The prime contractors and subcontractors must be verified prior to the contract award or the costs may be disallowed.

### Schedule of Manufacturers and Suppliers

The Contract Documents are based upon the equipment or products available for the manufacturers/suppliers denoted as "a", "b", etc., below. Bidder must indicate in the Bid which manufacturer/supplier the bid was based upon and which bid is intended for use for each item of equipment, listed below by circling one of the listed suppliers/manufacturers. If the Bidder circles more than one listed supplier, he must use the first supplier circled (unless an alternate is approved).

Specification Number	Equipment	Manufacturer or Supplier
16195	Feeder Protection Relay	a. GE Multilin
	Power quality meter	a. GE Multilin PQM-II
	Phase protection relay	a. Taylor Phase-Guard Model P b. Approved equal
	Hourmeter (ETM)	a. Veeder-Root Model 779536-201 b. Approved equal
16196	Low voltage SPD Type 1 & 2	a. Cutler-Hammer b. ABB – Industrial Solutions c. Square D d. Allen-Bradley e. Siemens  f. Approved equal
	Low voltage SPD Type 3	a. Edco SLAC Series b. Phoenix Contact c. Brick Wall Model PQOM20 d. Approved equal
16261	Uninterruptible Power Supply System	a. Liebert b. Approved equal
16345	Medium Voltage Metal-Clad Switchgear	a. ABB – Industrial Solutions b. Eaton c. Square D 
16346	Medium Voltage Sealed Deadfront Distribution Switchgear	a. S & C Electric b. G & W Electric

Specification Number	Equipment	Manufacturer or Supplier
16430	Pad Mounted Transformer	a. ABB – Industrial Solutions b. Eaton c. Square D d. Virginia Transformer
16461	Dry-Type Transformers	a. ABB – Industrial Solutions b. Eaton c. Siemens d. Square D
16470	Panelboards	a. ABB – Industrial Solutions b. Eaton c. Siemens d. Square D
16475	Breakers, Disconnect Switches, MTS	a. Eaton b. ABB – Industrial Solutions c. Siemens d. Square D
16475	Low Voltage Automatic Transfer Switches	a. ASCO b. Zenith c. Onan
16480	Low Voltage Motor Control Centers	a. Eaton b. ABB – Industrial Solutions c. Rockwell d. Square D
16500	Lighting Systems (Refer to light fixture schedule for manufacturers for each fixture type.)	a. Lithonia b. Visionaire
16600	Manholes	a. Oldcastle Precast b. Approved equal
	Manhole covers	a. East Jordan Iron Works

5

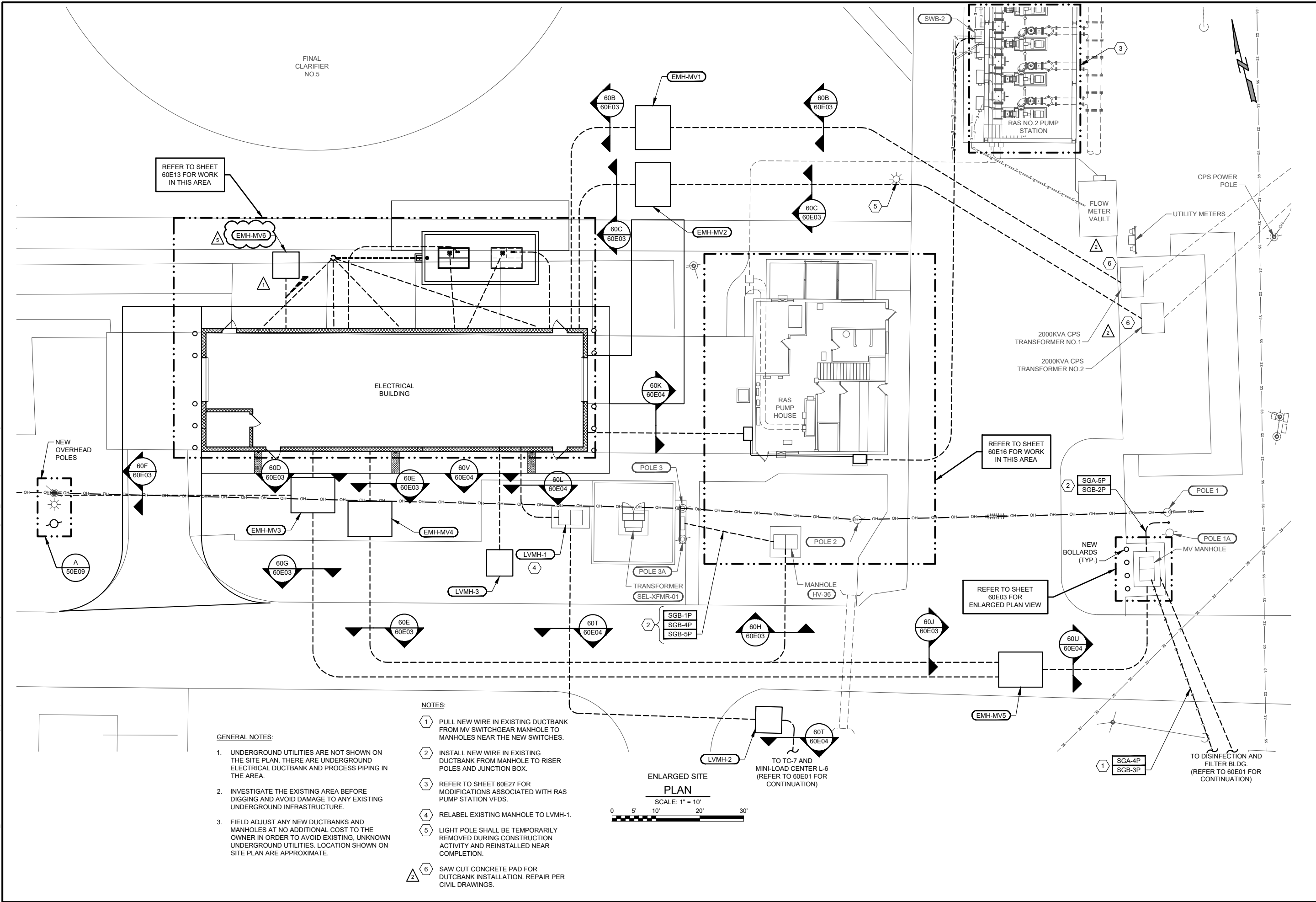
5

Specification Number	Equipment	Manufacturer or Supplier
16670	Lightning protection system (complete, including design)	<ul style="list-style-type: none"> <li>a. Bonded Lightning / Advanced Lightning Technology (Argyle, TX)</li> <li>b. VFC, Inc. (Grapevine, TX)</li> <li>c. Approved equal</li> </ul>

**END OF SECTION**

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**GENERAL NOTES:**

1. UNDERGROUND UTILITIES ARE NOT SHOWN ON THE SITE PLAN. THERE ARE UNDERGROUND ELECTRICAL DUCTBANK AND PROCESS PIPING IN THE AREA.
2. INVESTIGATE THE EXISTING AREA BEFORE DIGGING AND AVOID DAMAGE TO ANY EXISTING UNDERGROUND INFRASTRUCTURE.
3. FIELD ADJUST ANY NEW DUCTBANKS AND MANHOLES AT NO ADDITIONAL COST TO THE OWNER IN ORDER TO AVOID EXISTING, UNKNOWN UNDERGROUND UTILITIES. LOCATION SHOWN ON SITE PLAN ARE APPROXIMATE.

**NOTES:**

- 1 PULL NEW WIRE IN EXISTING DUCTBANK FROM MV SWITCHGEAR MANHOLE TO MANHOLES NEAR THE NEW SWITCHES.
- 2 INSTALL NEW WIRE IN EXISTING DUCTBANK FROM MANHOLE TO RISER POLES AND JUNCTION BOX.
- 3 REFER TO SHEET 60E27 FOR MODIFICATIONS ASSOCIATED WITH RAS PUMP STATION VFDS.
- 4 RELABEL EXISTING MANHOLE TO LVMH-1.
- 5 LIGHT POLE SHALL BE TEMPORARILY REMOVED DURING CONSTRUCTION ACTIVITY AND REINSTALLED NEAR COMPLETION.
- 6 SAW CUT CONCRETE PAD FOR DUCTBANK INSTALLATION. REPAIR PER CIVIL DRAWINGS.

ENLARGED SITE PLAN  
SCALE: 1" = 10'



<b>GAI</b> Gupta & Associates, Inc. CONSULTING ENGINEERING Registration No. F-2593 15771 N. Metro Road Dallas, Texas 75244 Tel: (972) 485-1725 email: gai@gaifirm.com																	
<b>SAN ANTONIO WATER SYSTEM</b> 																	
SAN ANTONIO WATER SYSTEM LEON CREEK WRC ELECTRICAL SYSTEM IMPROVEMENTS PHASE I ELECTRICAL	<b>ENLARGED SITE PLAN</b>																
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>REV. NO.</th> <th>DATE</th> <th>DRWN</th> <th>REMARKS</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>06/26/20</td> <td>ER</td> <td>ADDENDUM NO.5</td> </tr> <tr> <td>2</td> <td>06/08/20</td> <td>ER</td> <td>ADDENDUM NO.2</td> </tr> <tr> <td>3</td> <td>05/18/20</td> <td>ER</td> <td>ADDENDUM NO.1</td> </tr> </tbody> </table>	REV. NO.	DATE	DRWN	REMARKS	1	06/26/20	ER	ADDENDUM NO.5	2	06/08/20	ER	ADDENDUM NO.2	3	05/18/20	ER	ADDENDUM NO.1	1" = 10' ONE INCH AT FULL SIZE IF NOT ONE INCH SCALE ACCORDINGLY
REV. NO.	DATE	DRWN	REMARKS														
1	06/26/20	ER	ADDENDUM NO.5														
2	06/08/20	ER	ADDENDUM NO.2														
3	05/18/20	ER	ADDENDUM NO.1														
DESIGNED BY: D.GHOBRIAL DRAWN BY: E.RANGEL SHEET CHKD BY: V.K. GUPTA APPROVED BY: W.SAKO DATE: APRIL 2020 SAWS JOB NO.: 19-6505 FILE NAME: 1951_60E02																	
SHEET NO. <b>60E02</b> 51 OF 77																	

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- NOTES:**
- 1 COORDINATE WITH STRUCTURAL MAT ON ALL CONDUIT PENETRATIONS. FIELD ADJUST AS REQUIRED.
  - 2 TIE DUCTBANK REBAR INTO BUILDING REBAR.
  - 3 INSTALL BUS DUCT BETWEEN THE 2 SWITCHGEAR LINEUPS AS REQUIRED PER THE SWITCHGEAR MANUFACTURER REQUIREMENTS. INSTALL AT A MINIMUM OF 10FT. AFF.
  - 4 TO LIGHTNING PROTECTION SYSTEM.
  - 5 PLUG A/C UNIT INTO RECEPTACLE.
  - 6 REMOTE CONTROL PANELS SHALL BE POWERED FROM PANEL LP WITHIN THE SWITCHGEAR.
  - 7 STUB THE 4(2") OUTSIDE OF THE MANHOLE FOR FUTURE USE.

**GAI**  
Gupta & Associates, Inc.  
CONSULTING ENGINEERING  
Registration No. F-2593  
13771 N. Metro Road  
Dallas, Texas 75244  
Tel: 972-485-1225  
Email: gai@gaiconsulting.com



**SAN ANTONIO WATER SYSTEM**

NO.	DATE	REV.	BY	DRWN	REMARKS
1	06/26/20	ER	ADDENDUM NO.5		
2	05/18/20	ER	ADDENDUM NO.1		

**SAN ANTONIO WATER SYSTEM**  
LEON CREEK WRC  
ELECTRICAL SYSTEM IMPROVEMENTS PHASE I  
ELECTRICAL

**ELECTRICAL BUILDING POWER AND GROUNDING PLAN**

DESIGNED BY: D. GHOBRIAL  
DRAWN BY: E. RANGEL  
SHEET CHKD BY: V.K. GUPTA  
APPROVED BY: W. SAKO  
DATE: APRIL 2020  
SAWS JOB NO.: 19-6505  
FILE NAME: 1951\_60E13

SHEET NO.  
**60E13**  
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