

Steven M. Clouse WRC Electrical System Improvements Phase II Solicitation Number: CO-00276 Job No.: 16-6501

ADDENDUM 1 February 22, 2021

To Respondent of Record:

This addendum, applicable to work referenced above, is an amendment to the proposal request, 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 Proposal.

RESPONSES TO QUESTIONS

1. We would like you to please consider adding "Speed Fab-Crete, Kennedale, Texas" as an acceptable manufacturer for Division 13- Special Construction, Concrete Building Prefabricated.

Response: Any request for substitution shall follow the appropriate procedure after award of contract as outlined in the Contract Documents including, but not limited to, section 5.11 of Article V of the General Conditions and section 01300 of the Technical Specifications.

2. Robbins Lightning, Inc. has received plans and specifications for the above referenced project; we request to submit a quotation for the required lightning protection materials

Response: Any request for approval of an "or equal" product or service shall follow the appropriate submittal procedure after award of contract.

3. We are a Fire Alarm and Security integration company. I have looked over the drawings and specifications and I am only seeing small details for these scopes. Are these systems part of the requested scope for this project? If so would you be able to provide me with those documents so that we can provide a price for that scope for you.

Response: No fire alarm is included in this project. Security included for the SCADA/IT building only, shown on drawings 40E02, 40E05, and 40N04. Security system requirements are also described in specification section 17550.

4. Could you please publish full sized plans that has not been reduced? This would improve the accuracy of scaling and resolution.

Response: Due to the electronic file size the document was compressed, which may be what caused this issue. SAWS has now pulled that same version down and split the original in half. If there are continued issues, please contact Roxanne Lockhart via email at Roxanne.Lockhart@saws.org

5. Drawing 00E28, LIGHT FIXTURE SCHEDULE, is not legible. Please reissue.

Response: Due to the electronic file size the document was compressed, which may be what caused this issue. SAWS has now pulled that same version down and split the original in half. If there are continued issues, please contact Roxanne Lockhart via email at Roxanne.Lockhart@saws.org

6. Please clarify which drawing shows the location of Power Panel SMS-HP. It shows to be in the System Monitor Station-HP; however, System Monitor Station-HP does not show on drawings.

Response: Panel is shown on drawing 05DE05 on the MCC-SG2 elevation, bucket 5C.

7. Lighting contactor referenced on Drawing 05E16 for Blower Facility Lights is not shown on the Blower Facility Drawing 05E13. Please clarify.

Response: The lighting contactor is shown on sheet 05E07, schematic on sheet 05E18. (No reference found on sheet 05E16.) Refer to "Changes to the Plans," item 1.a.

8. On drawing 10E26 riser diagram for the Aeration Tank Drain Pump Station, note 1 state we are to determine where the existing power feed terminates and connect new feed for the Drain Pumps accordingly. The riser diagram also shows EUH-10 & Instrument Panel AFC. Will these need power as well or is the intent to use the MCPS1-21P to feed all 3 equipment?

Response: For the drain pump station, no record drawings were available. The riser diagram shown is the only known available information. The circuit shown will be needed, but the contractor must wire all downstream equipment to provide the same functionality as the existing system, including any additional power circuits.

9. On drawings 10E37,10E54,10E65, unlike Headworks grit tank blowers, the primary effluent blowers do not show disconnects at the blowers. Please clarify if disconnects are required and if so, the sizes.

Response: No disconnects are to be added for these blowers.

10. Drawing 20E62 RIO circuit # RIRS24-119 is utilized twice, one for Pipe Gallery cables from GMP-002 and again for MCC-RS-2. Please advise.

Response: SPD in MCC-RS2 communication circuit changed to RIRS24-122. Refer to "Changes to the Plans," items 1.f and 1.i.

11. Drawing 20E70 Tunnel Pull Boxes TPB-2*,3*,4* and Pull Box with detail D all show to have an internal steel barrier, however TPB-1* does not, please clarify if this box requires an internal barrier as well.

Response: Pull boxes TPB-1 shall include steel barrier between the instrument and power sections, similar to other pull boxes. Refer to "Changes to the Plans," item 1.j.*

12. Drawing 20E39 & 20E40 shows Flow Element & Flow Indicating Transmitter and 2 LITs each. But no cabling details are shown in the riser diagrams. Please advise if these are to be rewired.

Response: Refer to "Changes to the Plans," items 1.g and 1.h.

13. Drawing 20E41 the riser diagram does not indicate the size & # of conductors needed for the control cabling. Also, it does not show the wiring for the motor space heater carried as a part of the control circuit from the MCCs. Please review and advise.

Response: All power and control wiring, including heaters, shown on one-line diagrams 20E08 and 20E18.

14. Drawing 20E44 & 20E45, in the riser diagram it indicates a 1-1/2" conduit with 12/#14 & #14 ground wire to both the disconnect and pushbutton station. Neither the riser diagram nor details on 20E96, does not show additional control wiring to the motor status, temp, pressure etc. Please review and revise as required.

Response: Control schematic shown on sheet 20E65. All wiring for the EAS pump stations is shown on sheets 20E41, 20E42, 20E43, 20E44, 20E45, 20E46, and 20E47.

CHANGES TO THE SPECIFICATIONS

- 1. Supplementary Instructions to Respondents
 - a. Item E.1.vi, page SIR-3: Remove first sentence in its entirety that reads: "Provide a financial statement prepared within the last twelve (12) months by an independent Certified Public Accountant."
 - b. Item E.1.vi, third paragraph, page SIR-4: Remove "for the current fiscal year to-date".
 - c. Item E.5, page SIR-9: Safety Information for Prime Contractor and Key Subcontractor(s), remove the following from the header, "(Pass/Fail)"
 - 2. Specification 17500
 - a. Part 2.01.A.1, page 17500-5: Remove this sentence in its entirety that reads, "Rockwell Automation ControlLogix 1756-L83E series with Studio 5000 Logix Designer," and replace with, "Rockwell Automation ControlLogix 1756-L8xE series (minimum 20 MB memory) with Studio Logix Designer."
 - b. Part 2.01.G.1.a, page 17500-6: Remove this sentence in its entirety that reads, "Allen Bradley 1753-EN2T," and replace with, "Rockwell 1756-EN2T"
 - c. Part 2.01.G.2.a, page 17500-7: Remove this sentence in its entirety that reads, "Allen Bradley 1753-EN2T," and replace with, "Rockwell 1756-EN2T"
 - Specification 17510, Part 2.07.B.1, Item No. 4, page 17510-10: Remove this item in its entirety that reads, "4 / FactoryTalk Historian Site Edition to Site Edition (Perpetual License with 1 year of 24/7 support) / 1 / 9518M-HSEAORT42," and renumber items 5, 6, 7, and 8 as 4, 5, 6, and 7, respectively (page 17510-11).

CHANGES TO THE PLANS

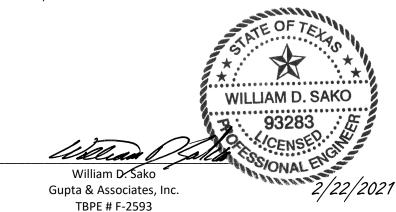
- **1.** Remove the following sheets and replace with the attached sheets:
 - a. 05E07
 - b. 10E13
 - c. 10E19
 - d. 10E42
 - e. 10E48
 - f. 20E17
 - g. 20E39
 - h. 20E40
 - i. 20E62
 - i. 20E70

1. N/A

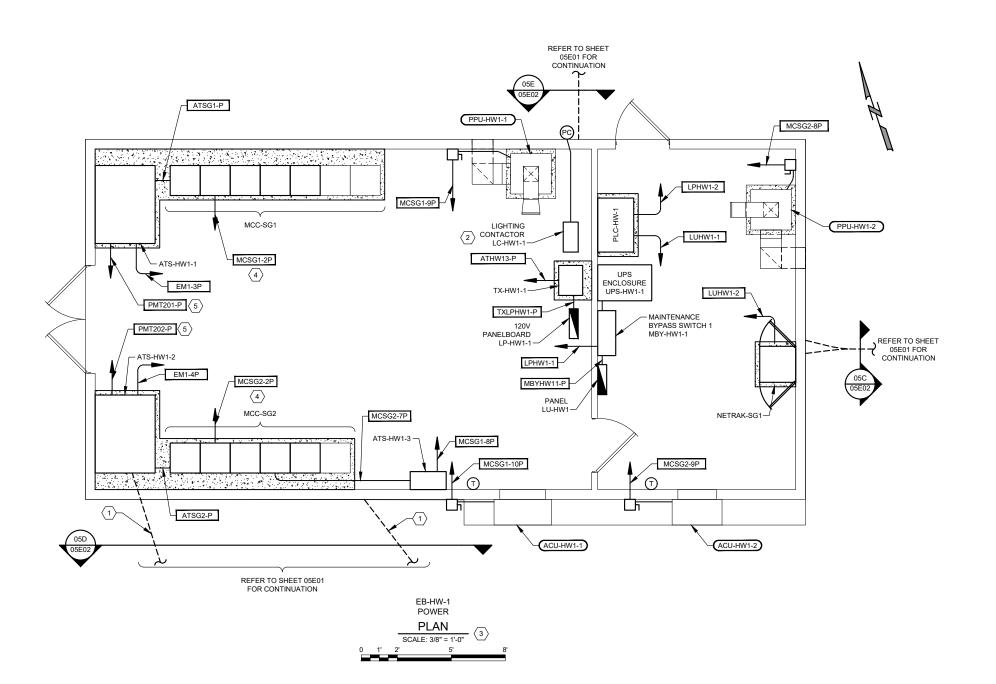
END OF ADDENDUM

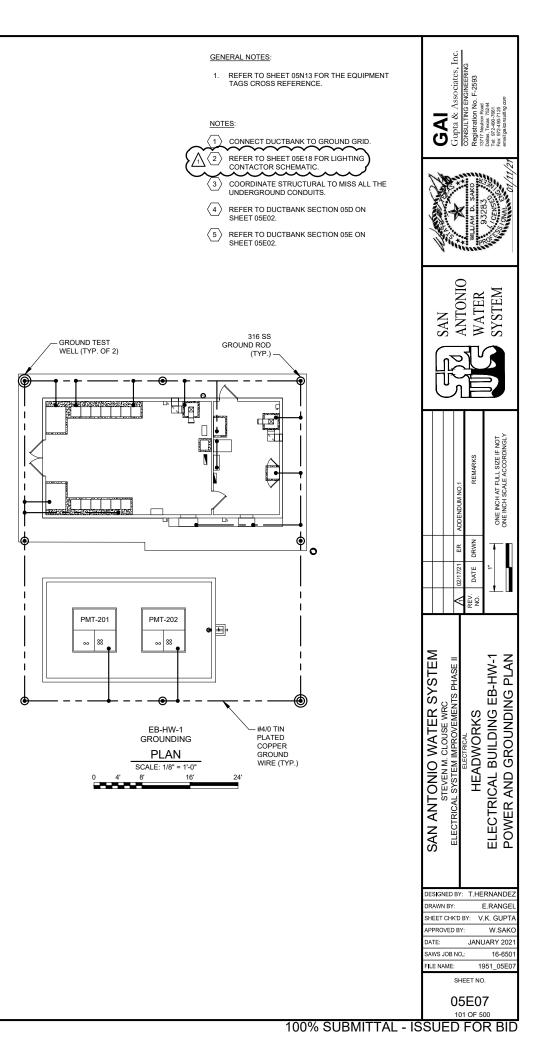
This Addendum, including these four (4) pages is fourteen (14) pages with attachments in its entirety. Attachments:

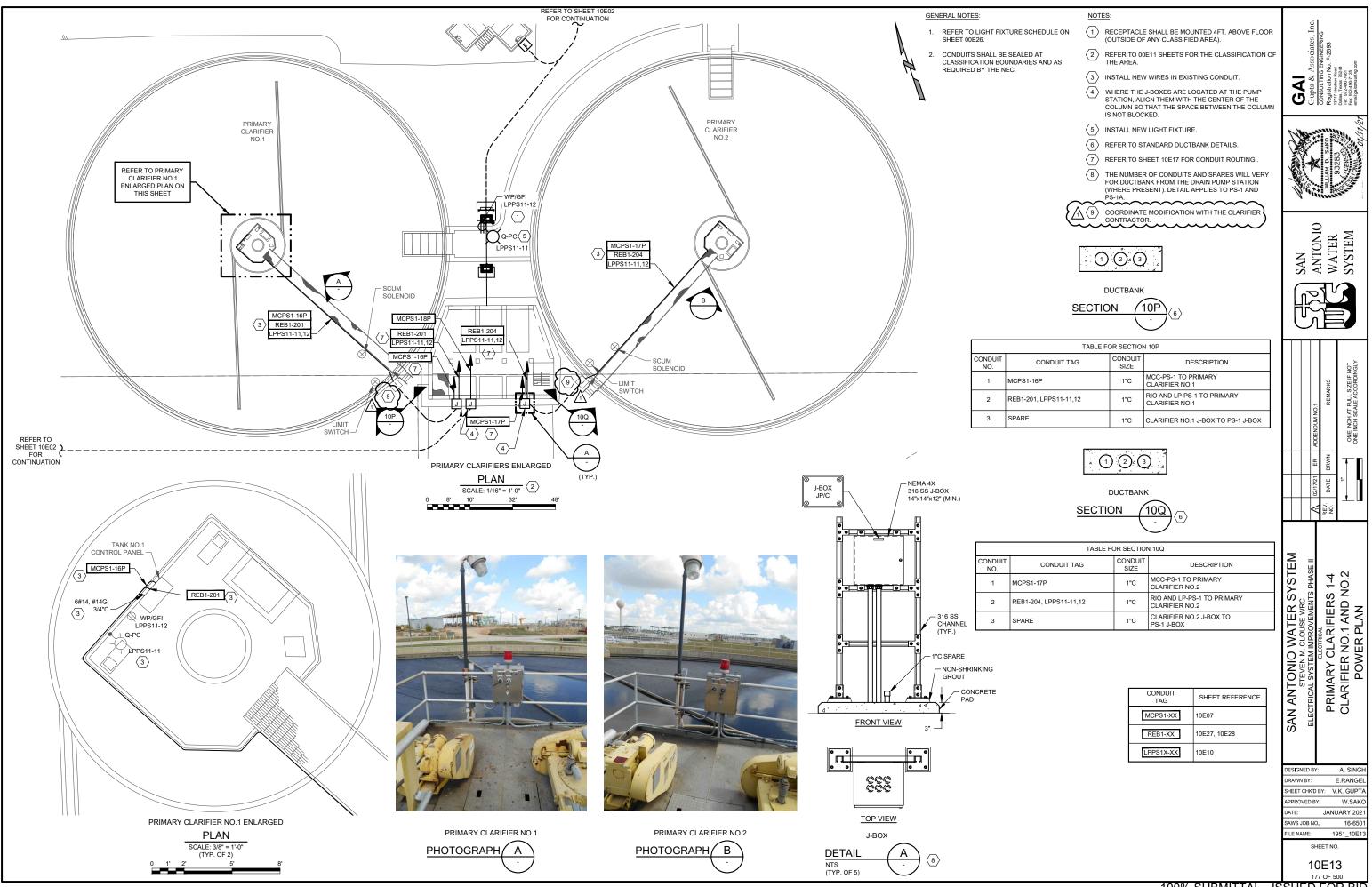
Drawings: 10 pages, 11x17 (HALF SIZE)

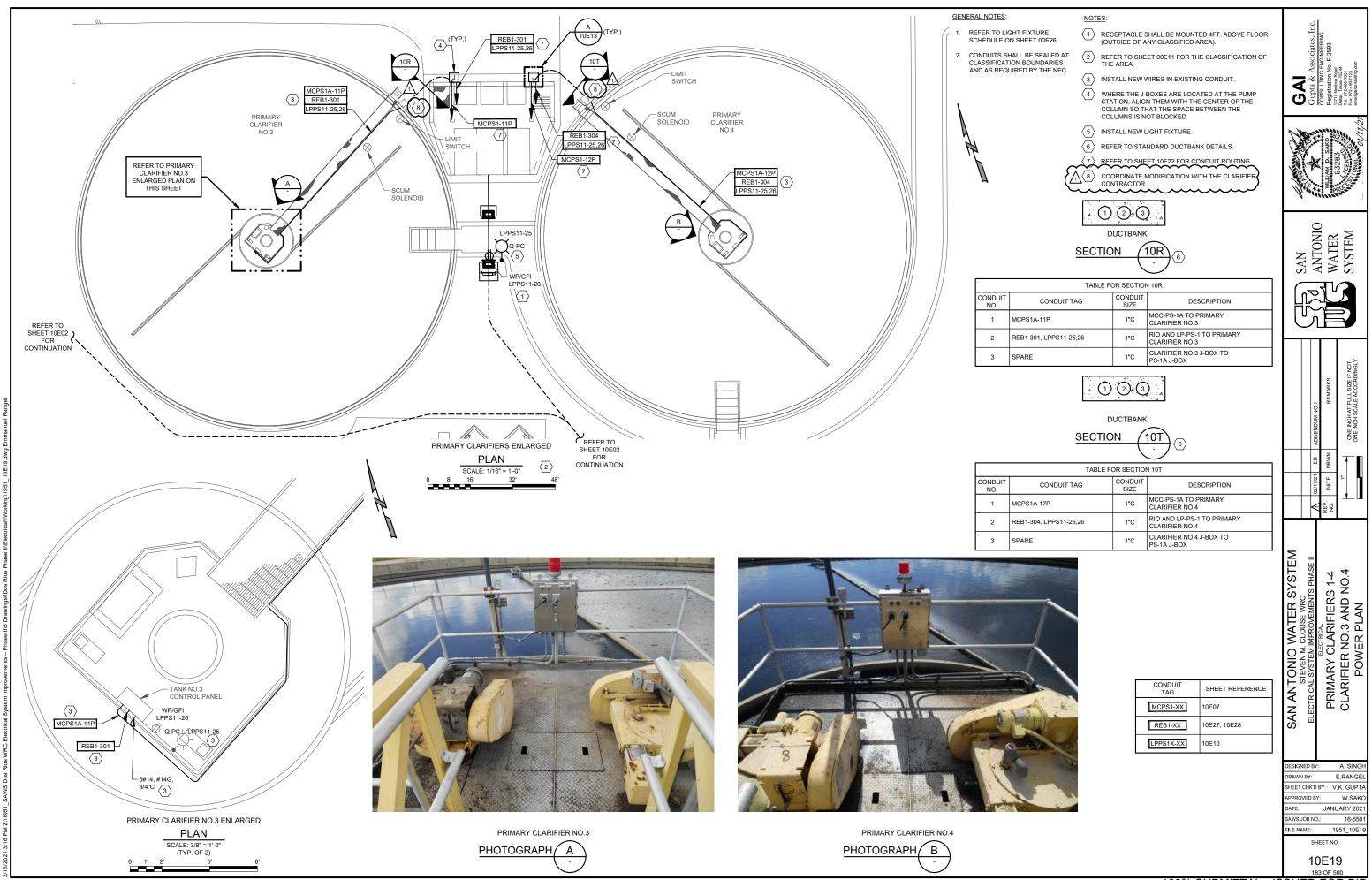


SAN ANTONIO WATER SYSTEM Steven M. Clouse WRC Electrical System Improvements Project Phase II IFB

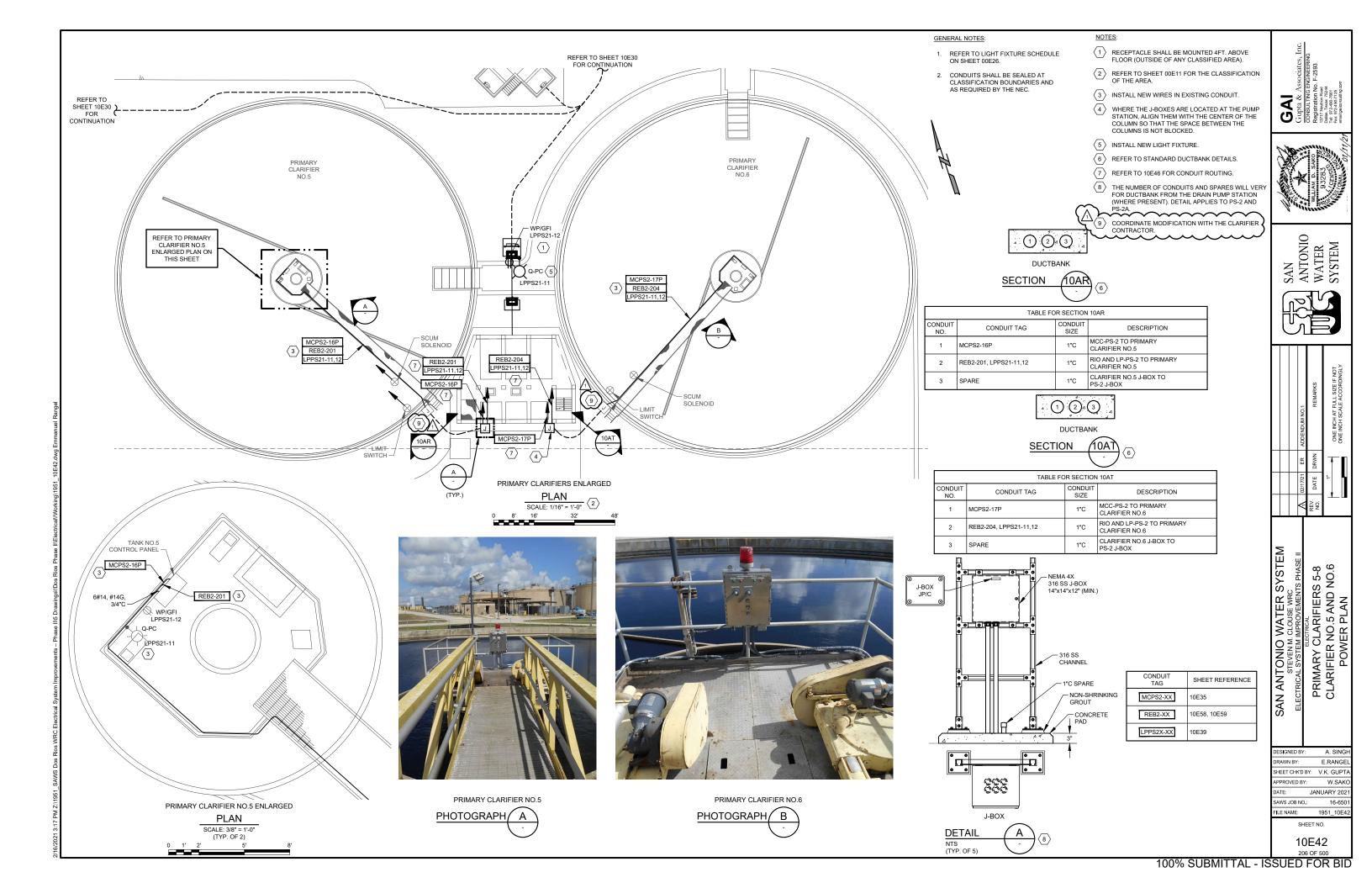


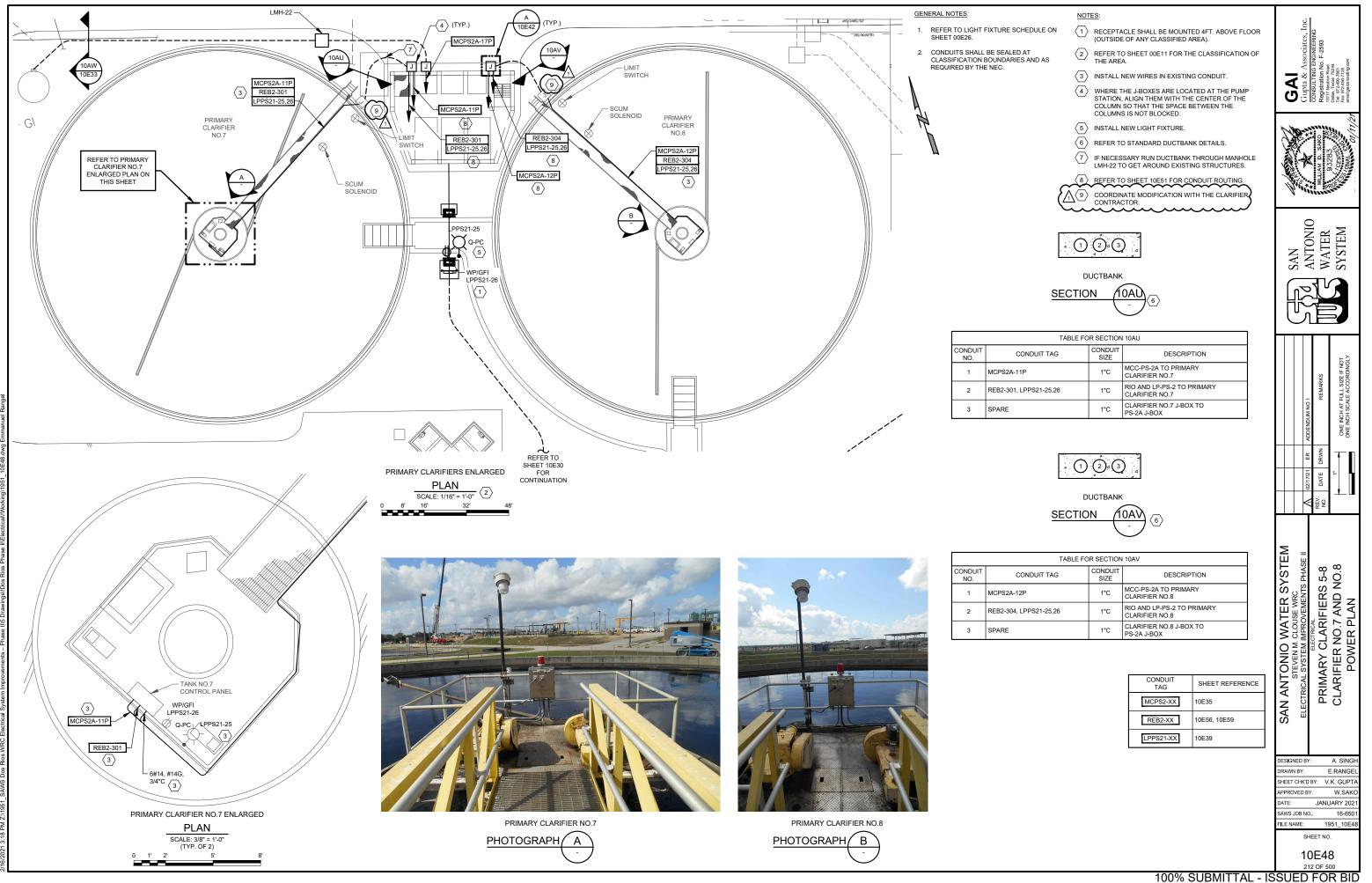


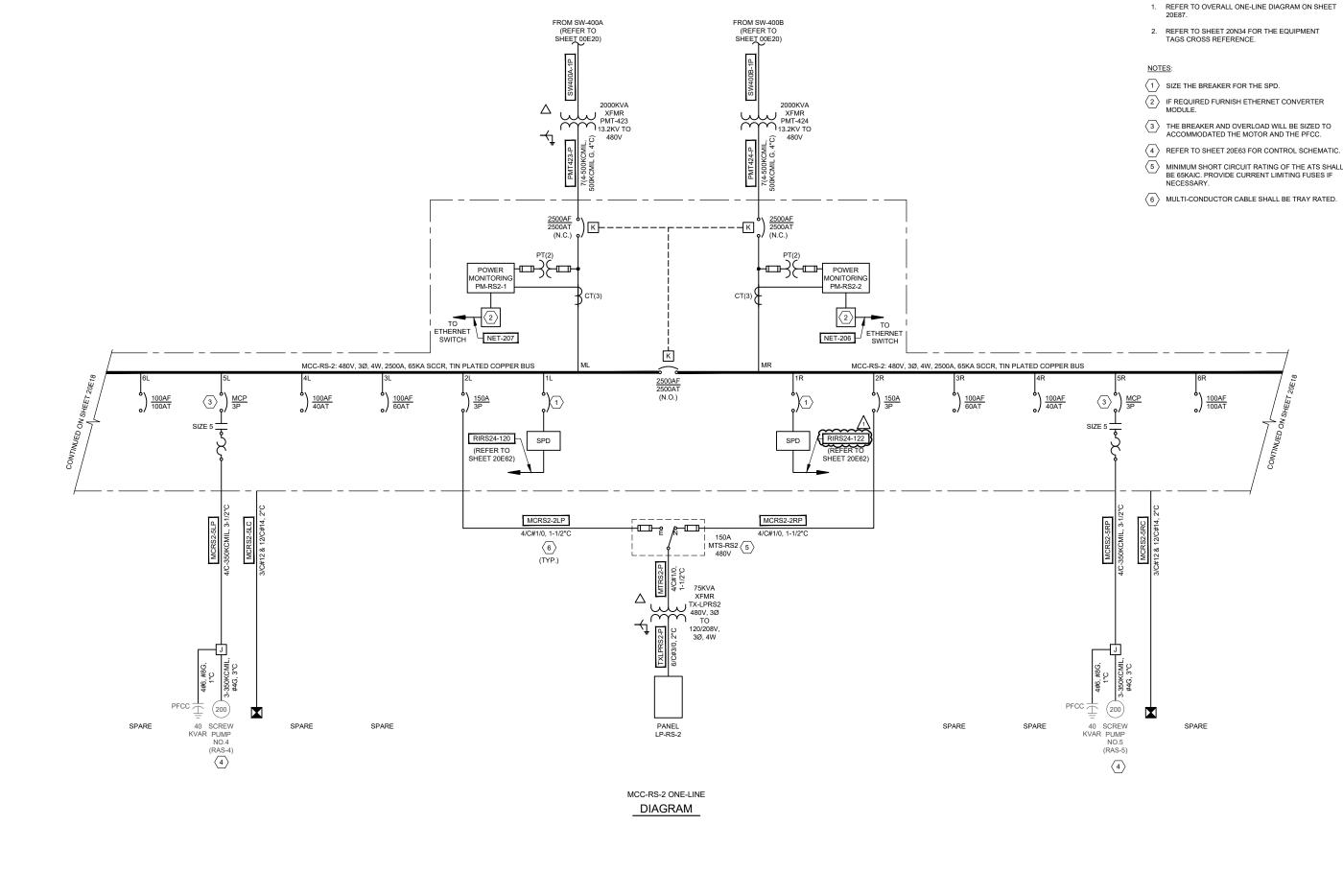




100% SUBMITTAL - ISSUED FOR BID



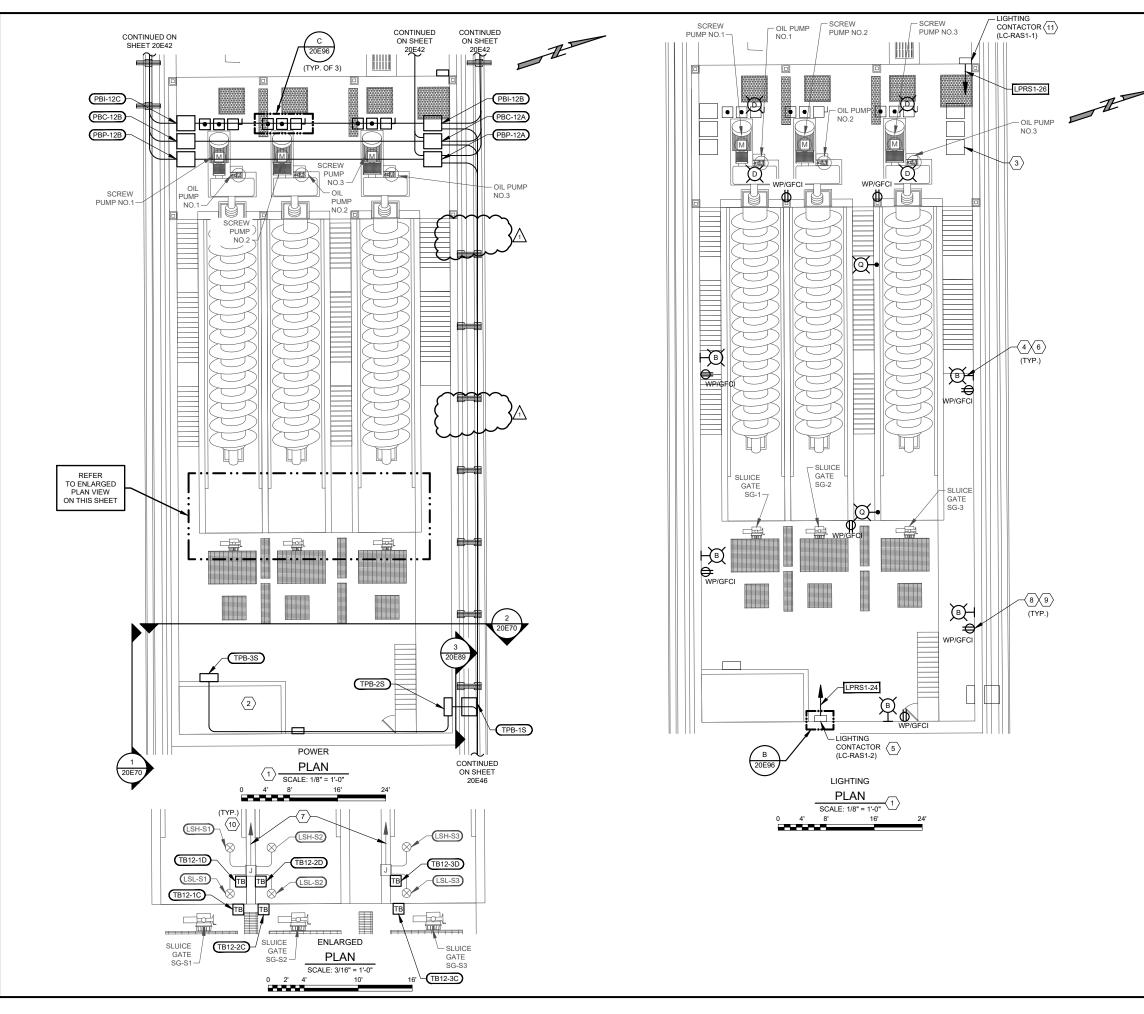




GENERAL NOTES:

- 1. REFER TO OVERALL ONE-LINE DIAGRAM ON SHEET 20E87.

NE-LINE DIAGRAM ON SHEET 4 FOR THE EQUIPMENT ICE. R THE SPD.	GAN Gupta & Associates, Inc. Consulting Engine Consulting Engine Registration No. F. 2593 Registration No. F. 2593 Regist
ETHERNET CONVERTER ERLOAD WILL BE SIZED TO MOTOR AND THE PFCC. 3 FOR CONTROL SCHEMATIC. JIT RATING OF THE ATS SHALL URRENT LIMITING FUSES IF	and the second s
IBLE SHALL BE TRAY RATED.	SAN ANTONIO WATER SYSTEM
CONTINUED ON SHEET 20E16	A 02/17/21 ER ADDENDUM NO.1 REV. DATE DRWN REMARKS no. pre DRWN REMARKS
	SAN ANTONIO WATER SYSTEM SITEVEN M. CLOUSE WRC ELECTRICAL SYSTEM MIPROVEMENTS PHASE II FIRST STAGE AERATION TANKS MCC-RS-2 ONE-LINE DIAGRAM - I
	DESIGNED BY: K. KADAM DRAWN BY: E. RANGEL SHEET CHKD BY: V.K. GUPTA APPROVED BY: W. SAKO DATE: JANUARY 2021 SAWS JOB NO.: 16-6501 FILE NAME: 1951_20E17 SHEET NO. 20E177
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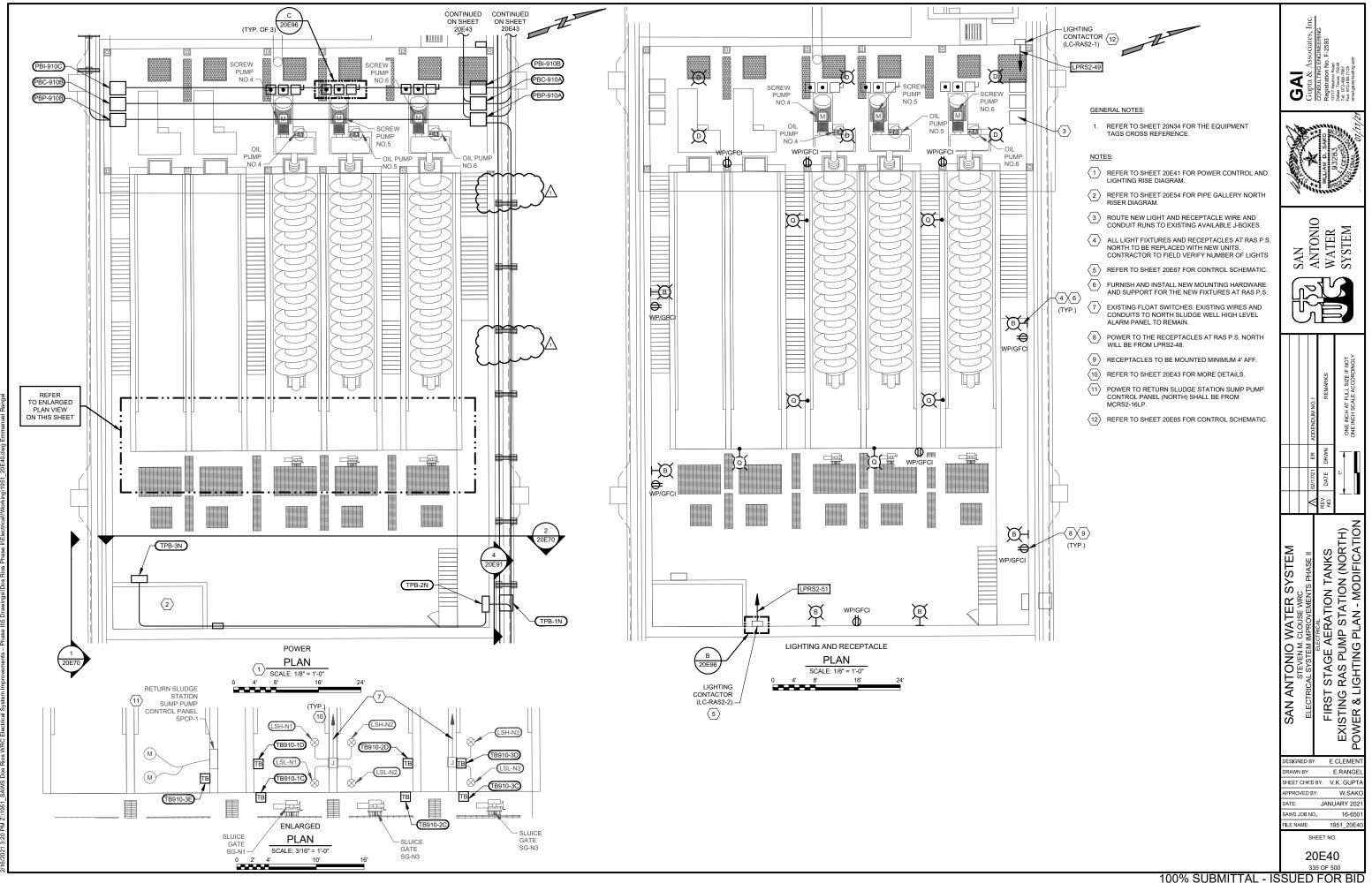
GENERAL NOTES:

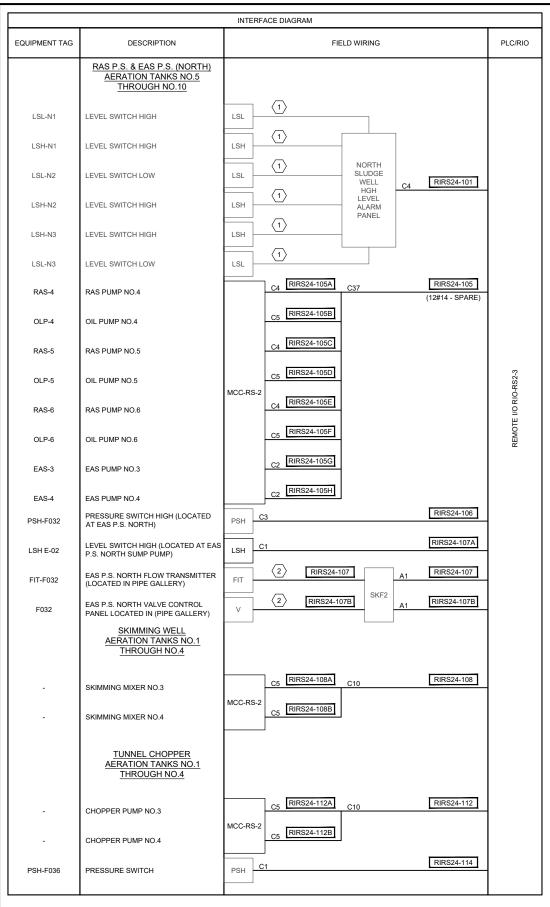
1. REFER TO SHEET 20N34 FOR THE EQUIPMENT TAGS CROSS REFERENCE.

NOTES:

- (1) REFER TO SHEET 20E46 FOR POWER CONTROL AND LIGHTING RISE DIAGRAM.
- $\left< 2 \right>$ REFER TO SHEET 20E54 FOR PIPE GALLERY SOUTH RISER DIAGRAM.
- (3) ROUTE NEW LIGHT AND RECEPTACLE WIRE AND CONDUIT RUNS TO EXISTING AVAILABLE J-BOXES.
- 4 ALL LIGHT FIXTURES AND RECEPTACLES AT RAS SOUTH TO BE REPLACED WITH NEW UNITS. CONTRACTOR TO FIELD VERIFY NUMBER OF LIGHTS TO BE REPLACED AND RUN NEW CABLES AND CONDUITS.
- $\overline{(5)}$ REFER TO SHEET 20E67 FOR CONTROL SCHEMATIC.
- 6 FURNISH AND INSTALL NEW MOUNTING HARDWARE AND SUPPORT FOR THE NEW FIXTURES AT RAS P.S.
- (7)
 EXISTING FLOAT SWITCHES. EXISTING WIRES AND CONDUITS TO SOUTH SLUDGE WELL HIGH LEVEL ALARM PANEL TO REMAIN.
- 8
 POWER TO THE RECEPTACLES AT RAS P.S. SOUTH TO BE FROM LPRS1-22.
- $\langle 9 \rangle$ RECEPTACLES TO BE MOUNTED AT MINIMUM 4' AFF.
- $\langle 10 \rangle$ REFER TO SHEET 20E42 FOR MORE DETAILS.
- $\langle 11 \rangle$ REFER TO SHEET 20E65 FOR CONTROL SCHEMATIC.

		5	Gupta & Associates, Inc.	CONSULTING ENGINEERING Registration No. F-2593	Dallas, Texas 75244 Tel: 972-490-7661 Fax: 972-490-7125	email gakonsuling.com
	11 San San San La			WILLIAM D. SAKO	CONCENSION NO	01/11/2
				WATER WATER	SVSTEM	
			ADDENDUM NO.1	REMARKS	ONE INCH AT FULL SIZE IF NOT	ONE INCH SCALE ACCORDINGLY
			A 02/17/21 ER	REV. DATE DRWN NO.	÷	
CANI ANITONIO MATED SVSTEM			ELEUIRICAL STST	FIRST STAGE AERATION TANKS	EXISTING RAS PUMP STATION (SOUTH)	POWER & LIGHTING PLAN - MODIFICATION
DR SH DA SA	AWI EET PRC TE: WS		: ('D) BY NO : SH	BY: V : JANU	E.RAN K. Gl W.S JARY 16- 051_2	MENT NGEL JPTA SAKO





		INTERFACE DIAGRAM	
EQUIPMENT TAG	DESCRIPTION	FIELD WIRING	PLC/RIO
AIT-F007 AIT-F008 AIT-F009 LSH T-02 LSH T-03 AIT-F004 AIT-F005 AIT-F006	LEL OXYGEN SENSOR CHLORINE SENSOR SUMP PUMP NO.2 HIGH LEVEL ALARM SUMP PUMP NO.3 HIGH LEVEL ALARM LEL OXYGEN SENSOR CHLORINE SENSOR	AIT AIT (3) AIT (3) AIT (3) AIT (3) AIT (3) AIT (3) AIT (3) AIT (3) AIT (3) (MP-003 (A) (MP-003 (A) (RIRS24-115) (A) (RIRS24-115) (RIRS24-116) (RIRS24-116) (RIRS24-117) (RIRS24-117) (RIRS24-117) (RIRS24-117) (RIRS24-117) (RIRS24-119)	REMOTE I/O RIO-RS2:3
UPS-RS2 -	ELECTRICAL BUILDING EB-RS-2 UPS MCC-RS-2 SPD MCC-B1-B SPD	UPS C2 RIRS24-118 C1 RIRS24-122 MCC-RS-2 C1 RIRS24-120 MCC-B1-B C1 RIRS24-121	RE

GENERAL NOTES:

- ALL THE CONDUIT AND WIRE RUNS ARE SHOWN INDIVIDUALLY FOR CLARITY. CONTRACTOR TO ROUTE WIRES AND CONDUITS AS PER RISER DIAGRAM.
- 2. THE CONDUIT SIZE AS SHOWN ARE MINIMUM.
- 3. ALL WIRES SHALL BE TERMINATED ON TERMINAL BLOCK. THERE SHALL BE NO LOOSE WIRES.
- 4. THE SIZES AS SHOWN ARE MINIMUM. THE CONTRACTOR SHALL BE RESPONSIBLE TO FURNISH THE CABINET AND TERMINATE ALL WIRES PLUS 25% SPARE TERMINAL BLOCKS.
- 5. ALL CAT-6 CABLE TO BE ROUTED IN CONDUIT ONLY.
- 6. REFER TO SHEET 20N34 FOR THE EQUIPMENT TAGS CROSS REFERENCE.

NOTES:

- (1) EXISTING EQUIPMENT, CABLES AND CONDUITS.
- 2 EXISTING EQUIPMENT. PROVIDE NEW CABLES IN EXISTING CONDUITS.
- $\langle 3 \rangle$ MANUFACTURER PROVIDED CABLE IN 1"C.

CONTROL & INSTRUMENTATION WIRE/CONDUIT SCHEDULE			
C1	2#14, 3/4"C	A1	1-1Pr#16 TSP, 3/4"C
C2	4#14, 3/4"C	A2	2-1Pr#16 TSP, 3/4"C
C3	6#14, 1"C	A3	3-1Pr#16 TSP, 3/4"C
C4	8#14, 1"C	A4	4-1Pr#16 TSP, 1"C
C5	10#14, 1"C	A5	5-1Pr#16 TSP, 1"C
C6	12#14, 1-1/4"C	A6	6-1Pr#16 TSP, 1-1/2"C
C7	14#14, 1-1/4"C	A7	7-1Pr#16 TSP, 2"C
C8	16#14, 1-1/4"C	A8	8-1Pr#16 TSP, 2"C
C9	18#14, 1-1/4"C	A9	9-1Pr#16 TSP, 2"C
C10	20#14, 1-1/4"C	A10	10-1Pr#16 TSP, 2"C
C11	22#14, 1-1/2"C	A11	11-1Pr#16 TSP, 2"C
C12	24#14, 1-1/4"C	M1	1-CAT-5e, 1"C
C14	28#14, 1-1/4"C	M2	2-CAT-5e, 1-1/2"C
C30	60#14, 3-1/2"C	M3	3-CAT-5e, 2"C
C37	74#14, 4"C	M4	4-CAT-5e, 2"C

CONTROL & INSTRUMENTATION WIRE/CONDUIT TABLE NOTES:

1) NOT ALL POSSIBLE COMBINATIONS ARE LISTED. INCLUDE A SEPARATE GROUND WIRE IN EACH CONDUIT RUN.

REPRESENTS PAIR OF WIRE
EXAMPLE C10 = 20#14 WIRES
/ EXAMPLE C20 = 40#14 WIRES
Ç#

 $L_{C} = CONTROL$

2) ANALOG CABLES ARE INTENDED TO BE INDIVIDUALLY INSULATED TWISTED SHIELDED PAIRS UNLESS OTHERWISE NOTED ON THE DRAWING.

