



Honorable Board of Directors
 Santa Clara Valley Water District (District)

Pursuant to, and in compliance with, the Notice to Bidders and the Contract Documents, relating to the

C0671 – RINCONADA WATER TREATMENT PLANT RESIDUALS REMEDIATION PROJECT,
 the undersigned Bidder having become thoroughly familiar with the terms and conditions of the Contract Documents and with local conditions affecting the performance and costs of the Work and having fully inspected the Work site in all particulars, hereby proposes and agrees to fully perform the Work, including providing any and all labor and materials and performing all Work required to construct and complete said Work within the contract time stated and in accordance with the requirements of the Contract Documents, for the following sum of money.

The undersigned Bidder agrees to complete all the Work within **550** calendar days from the first chargeable day of the Contract, as stated in the Notice to Begin Work. The Bidder agrees to enter into a Contract with the District and provide the required bonds and insurance in accordance with the Instructions to Bidders, Contract Bonds, paragraph #22 and Execution of Contract, paragraph #23. If the Bidder fails to meet these requirements within the time specified in the Instruction to Bidders, Failure to Execute Contract, paragraph #24, the Bidder's security accompanying this Proposal may be forfeited and become the property of the District. No Contract exists until all Contract bonds and insurance documents have been accepted by the District.

TOTAL BID: \$ 24,963,980.00

Bidder acknowledges receipt of the following Addenda to the Bid Documents:

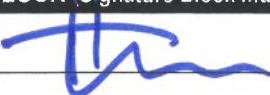
Addenda are posted online at <https://www.valleywater.org/construction>.

NO Addenda received

Addenda received as follows:

Addendum No. 1 Date June 1, 2021 Addendum No. _____ Date _____
 Addendum No. 2 Date June 4, 2021 Addendum No. _____ Date _____

Failure to acknowledge receipt of an Addendum on the Bid Form is not, in itself, cause for withdrawal or rejection of Bid, if it can be established that Bidder did, in fact, receive such Addendum prior to Bid opening.

BIDDER'S COMPANY INFORMATION	
NAME: <u>Ranger Pipelines Incorporated</u>	ADDRESS:
CONTRACTOR'S CALIFORNIA LICENSE NUMBER: <u>417996</u>	<u>1790 Yosemite Ave</u>
DATE OF EXPIRATION: <u>02/28/2022</u>	<u>San Francisco CA</u>
LICENSE CLASSIFICATION(S): <u>A, B, C-4, C-31, Haz</u>	<u>94124</u>
PHONE NO.: <u>(415) 822-3700</u>	FAX NO.: <u>(415) 822-3703</u>
EMAIL ADDRESS: <u>tomg@rangerpipelines.com</u>	
SIGNATURE BLOCK (Signature Block must be completed in ink and changes must be initialed.)	
Bidder's Signature: 	Date: <u>06/09/2021</u>
Bidder's Name and Title (Print): <u>Thomas Grover, VP – Estimating</u>	



SECTION A — BASE BID

ITEM NO.	DESCRIPTION OF ITEM	APPROXIMATE QUANTITY UNIT	UNIT PRICE	TOTAL
1	Mobilization and Demobilization	<u>Lump Sum</u> Lump Sum	\$ 100,000.00	\$ 100,000.00
2	Engineer's Construction Office	<u>20</u> Months	6,000 \$	120,000
3	Contractor's Internal Quality Control	<u>18</u> Months	\$ 10,000.00	\$ 180,000.00
4	Submittal of Schedule of Work	<u>Lump Sum</u> Lump Sum	12,000 \$	12,000
5	Adjustment to Schedule, Schedule Updates and Recovery Schedule	<u>18</u> Months	3,000 \$	54,000
6	Operations and Maintenance Documents	<u>Lump Sum</u> Lump Sum	50,000 \$	50,000
7	Compliance with Environmental Requirements	<u>Lump Sum</u> Lump Sum	180,000 \$	180,000
8	Demolition	<u>Lump Sum</u> Lump Sum	\$ 1,000,000	1,000,000
9	Gravity Thickeners 1 and 2 Modifications	<u>Lump Sum</u> Lump Sum	\$ 1,500,000	1,500,000



**BID FORM NO. 1
Proposal and Bid Items**

This form must be completed in ink and changes must be initialed.

ITEM NO.	DESCRIPTION OF ITEM	APPROXIMATE QUANTITY UNIT	UNIT PRICE	TOTAL
10	Sludge Transfer System Modifications	Lump Sum Lump Sum	\$ 600,000	600,000
11	Sludge Storage Tank 1	Lump Sum Lump Sum	\$ 1,500,000	1,500,000
12	Centrate Wetwell B	Lump Sum Lump Sum	\$ 300,000	300,000
13	Centrifuge Feed Pump Station	Lump Sum Lump Sum	\$ 1,000,000	1,000,000
14	Solids Load-Out Structure Platforms	Lump Sum Lump Sum	\$ 300,000	300,000
15	Hiller Centrifuges and Related Services (Pre-negotiated amount)	Lump Sum Lump Sum	\$ 1,138,240.00	\$ 1,138,240.00
16	Centrifuge Shop Drawings (Pre-negotiated amount)	Lump Sum Lump Sum	\$ 29,740.00	\$ 29,740.00
17	Centrifuge System in Centrifuge Building B	Lump Sum Lump Sum	\$ 1,200,000	1,200,000
18	Conveyor Systems	Lump Sum Lump Sum	\$ 1,000,000	1,000,000
19	Polymer Feed System	Lump Sum Lump Sum	\$ 1,400,000	1,400,000



**BID FORM NO. 1
Proposal and Bid Items**

This form must be completed in ink and changes must be initialed.

ITEM NO.	DESCRIPTION OF ITEM	APPROXIMATE QUANTITY UNIT	UNIT PRICE	TOTAL
20	Centrifuge Building B (Existing Belt Press Building) Improvements	Lump Sum Lump Sum	\$ 2,000,000	2,000,000
21	Centrifuge Building A (Existing Centrifuge Building) Improvements	Lump Sum Lump Sum	\$ 250,000	250,000
22	Yard Piping	Lump Sum Lump Sum	\$ 1,300,000	1,300,000
23	Site Electrical Work Including Switchgear 3 Modifications	Lump Sum Lump Sum	\$ 3,750,000	3,750,000
24	Control System Programming and SCADA Integration	Lump Sum Lump Sum	\$ 3,750,000	3,750,000
25	Operational Readiness and Functional Testing	Lump Sum Lump Sum	100,000 \$	100,000
26	System Commissioning Testing	Lump Sum Lump Sum	150,000 \$	150,000
27	Dispute Review Board and Professionally Facilitated Project Partnering	Lump Sum Lump Sum	\$ 50,000.00	\$ 50,000.00
28	All Other Work and Shoring Required by the Residuals Remediation Project	Lump Sum Lump Sum	\$ 650,000	650,000
SECTION A SUBTOTAL				23,663,980 -



SECTION B — SUPPLEMENTAL BID ITEMS These Bid items may or may not be required. They may be deleted entirely or in part, by deductive change order(s), at the sole discretion of the District.				
ITEM NO.	DESCRIPTION OF ITEM	APPROXIMATE QUANTITY UNIT	UNIT PRICE	TOTAL
1	Supplemental Bid Item No. 1, Replacement of Existing Centrifuge Feed Pumps	Lump Sum Lump Sum	200,000 \$	200,000
2	Supplemental Bid Item No. 2, Sludge Storage Tank 2	Lump Sum Lump Sum	1,000,000 1,100,000	1,000,000 1,100,000 (2)
3	Supplemental Bid Item No. 3, Thickener Influent Valve Vaults	Lump Sum Lump Sum	100,000 \$	100,000
			Section B Subtotal	1,300,000 1,400,000 (2)
TOTAL BID (Section A Subtotal + Section B Subtotal)				\$ 24,963,980.—

- A. This Designation of Subcontractors form must be completed in compliance with the State of California Subletting and Subcontracting Fair Practices Act, Public Contract Code §4100 et seq., and any amendment thereof. Bidder must complete the form below for each Subcontract that exceeds one-half of one percent (½%) of the Bidder's total Bid. A Subcontractor is one who: (1) performs Work or labor; or (2) provides a service to the Bidder; or (3) specially Fabricates and Installs a portion of the work according to the Contract Documents. Bidders failure to list a Subcontractor for any portion of the work in excess of ½% of Bidder's total Bid signifies Bidder will self perform that portion of the Work with its own forces. (Note: If more than one Subcontractor is designated for the same kind of Work, state the portion that each will perform.) After the opening of the Bids, no changes or substitutions will be allowed except as otherwise provided by law. The listing of more than one subcontractor for each item of work to be performed with the words "and/or" will not be permitted. Failure to comply with this requirement may render the Bid nonresponsive and may cause its rejection.
- B. Failure by a subcontractor to be registered to perform public work as required by the California Labor Code Section 1771.1 (a) shall be grounds under Section 4107 of the Public Contract Code for the Contractor, with the consent of the awarding authority, to substitute a subcontractor who is registered to perform public work pursuant to Section 1725.5 in place of the unregistered subcontractor.

NAME	LICENSE NO.	DIR REGISTRATION NO.	TYPE OF WORK	% of TOTAL CONTRACT
LOCATION (City & State)	EXPIRATION DATE	EXPIRATION DATE		
Mission City Rebar, Inc. Livermore, CA	30 278 (T) 273978, 6/30/21	1000002302 6/30/22	Rebar	1.7%
QA Constructors Los Gatos, CA	1013265 11/30/22	1000047727 6/30/21	Paving	—
R+S Construction Management Inc San Francisco, CA	992019 4/30/22	1000014060 6/30/23	Structural concrete	—
James Long Construction Services Inc Sacramento, CA	821927 7/31/21	1000000065 6/30/22	HVAC	0.6%
Jeffco Painting & Coating Inc Vallejo, CA	304902 10/31/22	1000001665 6/30/22	Coating	—
John Jackson Masonry Sacramento, CA	255203 11/30/22	1000000334 6/30/22	Masonry	0.2%

SIGNATURE BLOCK (Signature Block must be completed in ink and changes must be initialed.)

Bidder's Signature:



Date: 06/09/2021


Bidder's Name and Title (Print):

Thomas Grover, VP – Estimating

- A. This Designation of Subcontractors form must be completed in compliance with the State of California Subletting and Subcontracting Fair Practices Act, Public Contract Code §4100 et seq., and any amendment thereof. Bidder must complete the form below for each Subcontract that exceeds one-half of one percent (½%) of the Bidder's total Bid. A Subcontractor is one who: (1) performs Work or labor; or (2) provides a service to the Bidder; or (3) specially Fabricates and Installs a portion of the work according to the Contract Documents. Bidders failure to list a Subcontractor for any portion of the work in excess of ½% of Bidder's total Bid signifies Bidder will self perform that portion of the Work with its own forces. (Note: If more than one Subcontractor is designated for the same kind of Work, state the portion that each will perform.) After the opening of the Bids, no changes or substitutions will be allowed except as otherwise provided by law. The listing of more than one subcontractor for each item of work to be performed with the words "and/or" will not be permitted. Failure to comply with this requirement may render the Bid nonresponsive and may cause its rejection.
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NAME	LICENSE NO.	DIR REGISTRATION NO.	TYPE OF WORK	% of TOTAL CONTRACT
LOCATION (City & State)	EXPIRATION DATE	EXPIRATION DATE		
LGM construction.	773026	100000250	metal building	0.5%
Jackson, CA	1213121	6130121		
Lefevre Welding Inc	989319	1000012292	welding/misc metal	0.2%
San Mateo, CA	1213121	6130122		
OC Jones+Sons Inc.	759729	1000002320	paving	0.5%
Berkeley, CA	3131123	6130122		
F.D.Thomas, Inc	610403	1000000093	coating.	1.4%
Medford, OR	1/31/23	6/30/23		
S.D.Electric, Inc	850914	1000005683	electrical & instrumentation	30.3%
Tracy, CA	1213122	6/30/22		
All Cities Trucking Svcs, Inc	N/A	1000389025	trucking - partial	0.2%
Fremont, CA	N/A	6/30/21		

SIGNATURE BLOCK (Signature Block must be completed in ink and changes must be initialed.)

Bidder's Signature: 	Date: 06/09/2021
Bidder's Name and Title (Print): Thomas Grover, VP – Estimating	




In accordance with Public Contract Code Section 7106, Thomas Grover
(Bidder's full name)

declares that he or she is VP - Estimating
(Bidder's title)

of Ranger Pipelines Incorporated
(Company's name)

the party making the foregoing Bid that the Bid is not made in the interest of, or on behalf of, any disclosed person, partnership, company, association, organization, or corporation; that the Bid is genuine and not collusive or sham; that the Bidder has not directly or indirectly induced or solicited any other Bidder to put in a false or sham bid, and has not directly or indirectly colluded, conspired, connived, or agreed with any Bidder or anyone else to put in a sham bid, or that anyone shall refrain from bidding; that the Bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the Bid price of the Bidder or any other Bidder, or to fix any overhead, profit, or cost element of the Bid price, or of that of any other Bidder, or to secure any advantage against the public body awarding the contract of anyone interested in the proposed contract; that all statements contained in the Bid are true; and, further, that the Bidder has not, directly or indirectly, submitted the Bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company association, organization, Bid depository, or to any member or agent thereof to effectuate a collusive or sham bid.

I certify (or declare) under penalty of perjury under the laws of the State of California that the foregoing is true and correct.

SIGNATURE BLOCK (Signature Block must be completed in ink and changes must be initialed.)	
Bidder's Signature: 	Date: 06/09/2021
Bidder's Name and Title (Print): Thomas Grover, VP – Estimating	



Bond No. 21-62

BE IT KNOWN BY THESE PRESENTS,

That we, Ranger Pipelines Incorporated, as PRINCIPAL,
and Liberty Mutual Insurance Company, as SURETY,

are held and firmly bound unto the Santa Clara Valley Water District, hereinafter called the District, in the penal sum of TEN PERCENT (10%) OF THE TOTAL AMOUNT OF THE PROPOSAL of the Principal above named, submitted by said Principal to the Santa Clara Valley Water District, for the work described below, for the payment of which sum is lawful money of the United States, well and truly to be made, we bind ourselves, our heirs, executors, administrators and successors, jointly and severally, firmly by these presents. In no case shall the liability of the surety hereunder exceed the sum of \$ _____.

THE CONDITION OF THIS OBLIGATION IS SUCH,

That whereas the Principal has submitted the above mentioned Proposal to the District, for certain construction specifically described as follows, for which Proposals are to be opened at San Jose, California, on June 9, 2021, (or such other date as specified per Addendum) for

C0671 – RWTP RESIDUALS REMEDIATION PROJECT

NOW, THEREFORE, if the aforesaid Principal is awarded the Contract and, within the time and manner required under the Contract Documents, after the prescribed forms are presented to him for signature, enters into a written contract, in the prescribed form, in accordance with the Proposal, and files originals (copies are unacceptable) of the two bonds with the District, one to guarantee faithful performance and the other to guarantee payment for labor and materials, as required by law, then this obligation shall be null and void; otherwise, it shall be and remain in full force and virtue.

In the event suit is brought upon this bond by the obligee and judgment is recovered, the surety shall pay all costs incurred by the obligee in such suit, including a reasonable attorney's fee to be fixed by the court.

IN WITNESS WHEREOF, we have hereunto set our hands and seal on the 3rd day of June, 2021.

PRINCIPAL: Ranger Pipelines Incorporated

[Signature]
Signature

Thomas Grover
Name

VP-Estimating
Title

1790 Yosemite Avenue, San Francisco, CA 94124
Address

SURETY: Liberty Mutual Insurance Company

[Signature]
Signature

Anthony F. Angelicola
Name (Seal)

Attorney-In-Fact
Title

1340 Treat Blvd #400, Walnut Creek, CA 94597
Address

NOTE: 1. Original Bidder's Bond documents with embossed seal from the Surety are required. Photocopies are unacceptable and will result in the Bid submitted being determined non-responsive.

2. Signature of those executing for Surety must be properly acknowledged.

(Rev. 04/15/2021)



This Power of Attorney limits the acts of those named herein, and they have no authority to bind the Company except in the manner and to the extent herein stated.

Liberty Mutual Insurance Company
The Ohio Casualty Insurance Company
West American Insurance Company

Certificate No: 8205232-969091

POWER OF ATTORNEY

KNOWN ALL PERSONS BY THESE PRESENTS: That The Ohio Casualty Insurance Company is a corporation duly organized under the laws of the State of New Hampshire, that Liberty Mutual Insurance Company is a corporation duly organized under the laws of the State of Massachusetts, and West American Insurance Company is a corporation duly organized under the laws of the State of Indiana (herein collectively called the "Companies"), pursuant to and by authority herein set forth, does hereby name, constitute and appoint, Anthony F. Angelicola; Terrence T. Casey

all of the city of San Francisco state of CA each individually if there be more than one named, its true and lawful attorney-in-fact to make, execute, seal, acknowledge and deliver, for and on its behalf as surety and as its act and deed, any and all undertakings, bonds, recognizances and other surety obligations, in pursuance of these presents and shall be as binding upon the Companies as if they have been duly signed by the president and attested by the secretary of the Companies in their own proper persons.

IN WITNESS WHEREOF, this Power of Attorney has been subscribed by an authorized officer or official of the Companies and the corporate seals of the Companies have been affixed thereto this 8th day of April, 2021.



Liberty Mutual Insurance Company
The Ohio Casualty Insurance Company
West American Insurance Company

By: [Signature]
David M. Carey, Assistant Secretary

State of PENNSYLVANIA ss
County of MONTGOMERY

On this 8th day of April, 2021 before me personally appeared David M. Carey, who acknowledged himself to be the Assistant Secretary of Liberty Mutual Insurance Company, The Ohio Casualty Company, and West American Insurance Company, and that he, as such, being authorized so to do, execute the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

IN WITNESS WHEREOF, I have hereunto subscribed my name and affixed my notarial seal at King of Prussia, Pennsylvania, on the day and year first above written.



Commonwealth of Pennsylvania - Notary Seal
Teresa Pastella, Notary Public
Montgomery County
My commission expires March 28, 2025
Commission number 1126044
Member, Pennsylvania Association of Notaries

By: [Signature]
Teresa Pastella, Notary Public

This Power of Attorney is made and executed pursuant to and by authority of the following By-laws and Authorizations of The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company which resolutions are now in full force and effect reading as follows:

ARTICLE IV - OFFICERS: Section 12. Power of Attorney.

Any officer or other official of the Corporation authorized for that purpose in writing by the Chairman or the President, and subject to such limitation as the Chairman or the President may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Corporation to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact, subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Corporation by their signature and execution of any such instruments and to attach thereto the seal of the Corporation. When so executed, such instruments shall be as binding as if signed by the President and attested to by the Secretary. Any power or authority granted to any representative or attorney-in-fact under the provisions of this article may be revoked at any time by the Board, the Chairman, the President or by the officer or officers granting such power or authority.

ARTICLE XIII - Execution of Contracts: Section 5. Surety Bonds and Undertakings.

Any officer of the Company authorized for that purpose in writing by the chairman or the president, and subject to such limitations as the chairman or the president may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Company by their signature and execution of any such instruments and to attach thereto the seal of the Company. When so executed such instruments shall be as binding as if signed by the president and attested by the secretary.

Certificate of Designation - The President of the Company, acting pursuant to the Bylaws of the Company, authorizes David M. Carey, Assistant Secretary to appoint such attorneys-in-fact as may be necessary to act on behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations.

Authorization - By unanimous consent of the Company's Board of Directors, the Company consents that facsimile or mechanically reproduced signature of any assistant secretary of the Company, wherever appearing upon a certified copy of any power of attorney issued by the Company in connection with surety bonds, shall be valid and binding upon the Company with the same force and effect as though manually affixed.

I, Renee C. Llewellyn, the undersigned, Assistant Secretary, The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company do hereby certify that the original power of attorney of which the foregoing is a full, true and correct copy of the Power of Attorney executed by said Companies, is in full force and effect and has not been revoked.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seals of said Companies this 3 day of June, 2021.



By: [Signature]
Renee C. Llewellyn, Assistant Secretary

Not valid for mortgage, note, loan, letter of credit, currency rate, interest rate or residual value guarantees.

For bond and/or Power of Attorney (POA) verification inquiries, please call 610-832-8240 or email HOSUR@libertymutual.com.

CALIFORNIA ALL-PURPOSE ACKNOWLEDGEMENT

A Notary Public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California }
County of San Francisco }

On 6/3/2021, before me, Carla M. Wilkins, Notary Public,
personally appeared Anthony F. Angelicola

who proved to me on the basis of satisfactory evidence to be the person~~(s)~~ whose name~~(s)~~ is/~~are~~ subscribed to the within instrument and acknowledged to me that he/~~she/they~~ executed the same in his/~~her/their~~ authorized capacity~~(ies)~~, and that by his/~~her/their~~ signature~~(s)~~ on the instrument the person~~(s)~~, or the entity upon behalf of which the person~~(s)~~ acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of State of California that the foregoing paragraph is true and correct.



WITNESS my hand and official seal.

SIGNATURE Carla M. Wilkins
SIGNATURE OF NOTARY PUBLIC

PLACE NOTARY SEAL ABOVE

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.

Description of attached document

Title or type of document: _____

Document Date: _____ Number of Pages: _____

Signer(s) Other than Named Above: _____



**AUTHORIZED OFFICERS
RESOLUTION**

RESOLVED, that any one of the following persons, with titles as designated, are authorized and directed to execute on behalf of and as the act of this corporation the written proposal and/or contracts (and associated documents) to and with the Santa Clara Valley Water District, regarding the RINCONADA WATER TREATMENT PLANT RESIDUALS REMEDIATION

<u>NAME</u>	<u>TITLE</u>
Thomas Hunt	President
Peter Cuddihy	Vice President
Thomas Grover	Vice President–Estimating Services
Mary Shea-Hunt	Corporate Secretary/Treasurer

CERTIFICATE OF SECRETARY

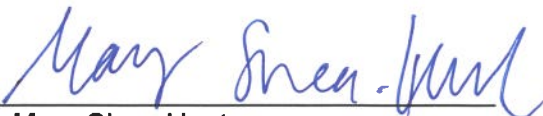
I CERTIFY THAT:

I am the duly qualified and acting Secretary of Ranger Pipelines Incorporated, a California Corporation.

The foregoing is a true copy of a resolution duly adopted by the Board of Directors of the corporation at a special meeting duly held on May 19, 2021, entered in the minutes of such meeting in the minute book of the corporation.

The resolution is in conformity with the Articles of Incorporation and Bylaws of the Corporation, has never been modified or repealed, and is now in full force and effect.

Dated: 06/09/2021



 Mary Shea-Hunt
 Corporate Secretary

CORPORATE SEAL

**Iran Contracting Act Bid Certification
(Public Contract Code Sections 2202–2208)
Must be Completed for any Proposal of \$1,000,000 or more**

Public Contract Code (PCC) Sections 2200–2208 are known as the Iran Contracting Act of 2010 and prohibit public entities from contracting with companies that have specified business activities in Iran’s petroleum sector. Companies seeking to bid on state or local government contracts are required to certify that they are not engaged in developing Iran’s petroleum resources.

Prior to bidding on, submitting a proposal or executing a contract or renewal for a Santa Clara Valley Water District contract for goods or services of one million dollars (\$1,000,000 or more), a person (vendor, firm, corporation, etc.) must either: a) certify it is **not** on the current list of persons engaged in investment activities in Iran created by the California Department of General Services (“DGS”) pursuant to Public Contract Code Section 2203(b) and is not a financial institution extending twenty million dollars (\$20,000,000) or more in credit to another person, for 45 days or more, if that other person will use the credit to provide goods or services in the energy sector in Iran and is identified on the current list of persons engaged in investment activities in Iran created by DGS; or b) demonstrate it has been exempted from the certification requirement for that solicitation or contract pursuant to Public Contract Code Section 2203(c) or (d). The DGS list is posted online at: www.dgs.ca.gov, search “Iran Contracting Act List”).

To comply with this requirement, please complete **one** of the options below. Please note: California law establishes penalties for providing false certifications, including civil penalties equal to the greater of \$250,000 or twice the amount of the contract for which the false certification was made; contract termination; and three-year ineligibility to bid on contracts. (Public Contract Code Section 2205.)

Please complete one of the options below (see prior page for additional explanation).

OPTION NO. 1—CERTIFICATION

I, the official named below, certify I am duly authorized to execute this certification on behalf of the person/financial institution identified below, and the person/financial institution identified below is **not** on the current list of persons engaged in investment activities in Iran created by DGS and is not a financial institution extending twenty million dollars (\$20,000,000) or more in credit to another person/vendor, for 45 days or more, if that other person/vendor will use the credit to provide goods or services in the energy sector in Iran and is identified on the current list of persons engaged in investment activities in Iran created by DGS.

Name of Person (Vendor, Firm, Corporation, etc.)/Financial Institution (Printed): Ranger Pipelines Incorporated		Federal ID No. (or n/a): 94-279-1495
By (Authorized Signature): 		
Printed Name and Title of Person Signing: Thomas Grover, VP – Estimating		
Date Executed: 06/09/2021	Executed in (City & State): San Francisco, CA	

OPTION NO. 2—EXEMPTION

Pursuant to Public Contract Code Sections 2203(c) and (d), a public entity may permit a person/financial institution engaged in investment activities in Iran, on a case-by-case basis, to be eligible for, or to bid on, submit a proposal for, or enter into or renew, a contract for goods and services.

If you have obtained an exemption from the certification requirement under the Iran Contracting Act, please fill out the information below, and attach documentation demonstrating the exemption approval.

Name of Person (Vendor, Firm, Corporation, etc.)/Financial Institution (Printed):		Federal ID No. (or n/a):
By (Authorized Signature):		
Printed Name and Title of Person Signing:		
Date Executed:	Executed in (City & State):	

Timely submission of these Forms is considered material by the District.

All Bidders must complete and submit this Bidder's General Information, Bid Form 7, including the required attachments. **The Bidder may be considered not responsible based on information provided on this Form.** Additional sheets may be attached as required.

1. Number of years as a contractor in construction work of this type: 39
2. Names and titles of all officers of Bidder's firm:
Thomas Hunt, President
Thomas Grover, VP – Estimating
Peter Cuddihy, Vice President
Mary Shea-Hunt, Corporate Secretary/Treasurer
3. Name of person(s) who inspected site of proposed work for your firm:
Name: James Cadden Date of Inspection: 5/18/2021
4. Name, address, and telephone number of surety company and agent who will provide the required bonds for this Contract:
First Pacific Bonding, Terry Casey
109 Bartlett Street, Suite 202, San Francisco, CA 94110
Ph: 415-543-0111
5. **Résumé of Designated Authorized Representative:** Attach the résumé of the person who will be designated as authorized representative. **The Contractor's authorized representative must have requisite background and experience to administer and oversee the Work on behalf of the Contractor. The representative must have complete authority to represent and act for the Contractor as stated in Standard Provisions, Contractor Staffing, Article 3.03.** *see attached*
6. Prior Construction Contracts: Bidder must provide at least two (2) construction contracts similar in scope and complexity to this Project that your organization has performed during the last 5 years. Use the PRIOR CONSTRUCTION CONTRACTS form (page 3 of this Bid Form 7) for each project.
7. Claims and lawsuits: if the answer to any of the questions below is "yes" explain the circumstances on an attached sheet.
 - 7.1 Has your organization ever failed to complete an awarded contract?
 Yes No

Sykonh Sayabath – Project Manager

Skills

- Microsoft Word
- Excel
- PowerPoint
- Project
- Fluent in English

Training & Certification

- Adult CPR/First Aid
- Competent Person
- OSHA 30 Hours
- Construction Quality Management -Army Corps of Engineers
- SWPPP
- QSP
- CESSWI
- OSHA Managing Excavation Hazards

Sy has 25 years of experience working in the engineering and construction industries.

Employment History

2013–Present

Project Manager with Ranger Pipelines Inc., San Francisco, CA

- Manages underground utility projects throughout Northern California.
- Plans, schedules, and supervises daily operations. Ensures the work is being performed safely and with high quality.
- Projects include wastewater rehabilitation, CIPP, VCP, HDPE, water system and storm drain repair.

2010–2013

Project Manager/Sr. Project Engineer with Top Grade Construction, Livermore, CA

- Managed a large scale roadway reconstruction project and other small scale public works projects in the Bay area.
- Planning, scheduling, and contract administration such as materials procurement, change orders, contract revenue, and cost control.
- Coordination with regulatory agencies, consultants, engineers, subcontractors, and suppliers.

1999–2010

Project Manager/Superintendent/Lead Estimator/Project Engineer/Field Engineer with Kiewit Pacific Co., Concord, CA

- Supervised and managed projects successfully through effective planning, scheduling, and selecting the right equipment and craft personnel.
- Managed and performed contract administration
- Coordinated with owners, regulatory agencies, consultants, and engineers.
- Enforced project safety and quality of workmanship to meet plans and specifications.
- Directed workflow, supervised, trained, encouraged, and motivated entry level engineers and field crew.
- Oversaw the estimating process from plans and specification review, quantity take-off, subcontractors and suppliers solicitation, pricing, and bid close out.

1996–1999

Project Field Engineer with Arntz Builders, Novato, CA

- Supported superintendent with flow of information, supervised subcontractors, and procured materials.
- Prepared and reviewed submittals, updated project schedule, assisted with change orders negotiation.
- Developed and maintained multiple project control logs. Generated work plans and performed daily site inspections to verify compliance with plans, specifications, and building codes.
- Measured and recorded pay quantities.

Education

- B.S. Construction Management, California State University, Chico

RANGER PIPELINES INCORPORATED

CSLB #417996 Class A, B, C-4, HAZ | DIR #1000003604

1790 Yosemite Avenue | P.O. Box 24109 | San Francisco, California 94124 | P 1-415-822-3700 | F 1-415-822-3703

7.2 Are there any judgments, claims, alternate dispute resolution proceedings or suits pending or outstanding against your organization or its officers?

Yes No

7.3 Has your organization filed any lawsuits or requested an alternate dispute resolution with regard to construction contracts within the last 5 years?

Yes No

8. The Bidder hereby declares that the Bidder has not been convicted, within the preceding 3 years, of any charge of fraud, bribery, collusion, conspiracy, or any other act in violation of any state or federal antitrust law in connection with the bidding upon, award of, or performance of any public work contract with any public entity. The term "Bidder" includes any partner, member, officer, director, responsible managing officer, or responsible managing employee thereof.

9. Has the Bidder, any officer of the Bidder, or any employee of the Bidder who has a proprietary interest in the Bidder, ever been disqualified, removed or otherwise prevented from bidding on, or completing a federal, state, or local government project because of a violation of law or a safety regulation?

Yes No

If the answer is "yes," explain the circumstances in the following space:

10. The Bidder signing for Contractor certifies that neither Bidder nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any federal department or agency.

District reserves the right to verify the above information.

I STATE UNDER PENALTY OF PERJURY THAT EACH AND ALL OF THE STATEMENTS I HAVE MADE IN RESPONSE TO PARAGRAPHS 8, 9 & 10 ABOVE ARE TRUE AND CORRECT.

SIGNATURE BLOCK (Signature Block must be completed in ink and changes must be initialed.)	
Bidder's Signature: 	Date: 06/09/2021
Bidder's Name and Title (Print): Thomas Grover, VP – Estimating	

This form must be completed in ink and changes must be initialed.


PRIOR CONSTRUCTION CONTRACTS

The Bidder may make as many copies of this page as necessary. Bidder may provide the required information on an alternative document. Bidder must submit a signed original of this page 3 of Bid Form 7.

Respond to each item, indicating "none" where appropriate.

- A. Name, address, and telephone number of owner: SFPUC, 525 Golden Gate Ave, San Francisco CA, (415) 405-4537
- B. Name of project: Regional Groundwater Storage
- C. Location of project: South San Francisco, Millbrae, Brisbane, Colma, Daly City
- D. Brief description of the work involved: See attached
- E. Contract amount: \$57,370,301
- F. Claims amount: 0
- G. Liquidated damages assessed: None
- H. Date of completion of contract: 10/7/2017
- I. Name, address, and telephone number of design firm's architect or engineer: SFPUC, 525 Golden Gate Ave, San Francisco CA (415) 405-4537
- J. Name of owner's project manager: Judy Chin
- K. Declaration of Default (Yes or No): No
- L. Litigation on questions of project performance: None
- M. Determination of failure to pay prevailing wages or other state and/or federally required taxes or contributions: None
- N. Citations by federal OSHA or CAL OSHA: None

District reserves the right to verify the above information

SIGNATURE BLOCK (Signature Block must be completed in ink and changes must be initialed.)	
Bidder's Signature: 	Date: <u>06/09/2021</u>
Bidder's Name and Title (Print): <u>Thomas Grover, VP – Estimating</u>	

This form must be completed in ink and changes must be initialed.


PRIOR CONSTRUCTION CONTRACTS

The Bidder may make as many copies of this page as necessary. Bidder may provide the required information on an alternative document. Bidder must submit a signed original of this page 3 of Bid Form 7.

Respond to each item, indicating "none" where appropriate.

- A. Name, address, and telephone number of owner: SFPUC, 525 Golden Gate Ave, San Francisco CA, 925-699-0704
- B. Name of project: San Antonio Backup Pipeline
- C. Location of project: SUNOL, CA
- D. Brief description of the work involved: see attached
- E. Contract amount: \$32,964,077.23
- F. Claims amount: 0
- G. Liquidated damages assessed: None
- H. Date of completion of contract: 06/07/2017
- I. Name, address, and telephone number of design firm's architect or engineer: SFPUC Engineering and Design Bureau, 525 Golden Gate Ave, San Francisco CA, (925) 699-0704
- J. Name of owner's project manager: Eric Gee
- K. Declaration of Default (Yes or No): No
- L. Litigation on questions of project performance: None
- M. Determination of failure to pay prevailing wages or other state and/or federally required taxes or contributions: NO
- N. Citations by federal OSHA or CAL OSHA: None

District reserves the right to verify the above information

SIGNATURE BLOCK (Signature Block must be completed in <i>ink</i> and changes must be <i>initialed</i> .)	
Bidder's Signature: 	Date: <u>06/09/2021</u>
Bidder's Name and Title (Print): <u>Thomas Grover, VP – Estimating</u>	

Constructed 13 new groundwater well facilities, including various work on existing groundwater wells; building foundations; retaining walls; new pumps and motors; ventilation systems; pipeline and conduit construction; cathodic protection system; chemical treatment equipment, tanks, and pumping systems; electrical power distribution systems, SCADA, and I&C control systems; perimeter security fence; security monitoring and control systems; final grading, drainage, landscape, and irrigation systems; sanitary and stormdrain piping and connections to municipal systems; and 7,000 LF of 8" and 12" diameter DIP water transmission pipeline.

Regional Groundwater Storage

Work consisted of installation of approximately 6,600 feet of 66-inch diameter of welded steel pipe located along the west side of Calaveras Road from the Alameda Siphons on the south to the edge of the SMP-24 quarry pit on the north. Prime features included installation of 4 EA 66" Butterfly Valves, 4 EA 60" Butterfly Valves, 1 EA 54" Ball Valve, 2 EA 20" Wafer Check Valves, 66" Multipath Flowmeter, an 8,000 Gallon Calcium Thiosulfate Tank plus 2 waste tanks, a chemical building complete with all associated piping, 2 Chlorine Analyzer stations, a Quarry Pit Dewatering Pump System and Erosion Protection. The Pump System involved installation of 2 pumps rated at 2,000 GPM each. Quarry pipe modified for use as earth reservoir, which included mass earthwork and grading to modify pit for water storage. The project also included an open cut crossing of the San Antonio Creek channel, discharge structure, cutoff wall, pipe and appurtenances.

San Antonio Backup Pipeline WD-2575

6/7/2019

TO: Bidding Contractors
ATTN: Estimating

Re: Rinconada WTP Residuals Remediation – Santa Clara Valley Water District (SCVWD)

To Whom It May Concern:

Tesco Controls, Inc. hereby certifies intent to assume and execute full responsibility to the CONTRACTOR to perform all tasks defined in full compliance with the requirements of the Contract Documents.

It is certified that the quotation offered provides for full and complete compliance with the requirements of the Contract Documents without exception.

Sincerely,

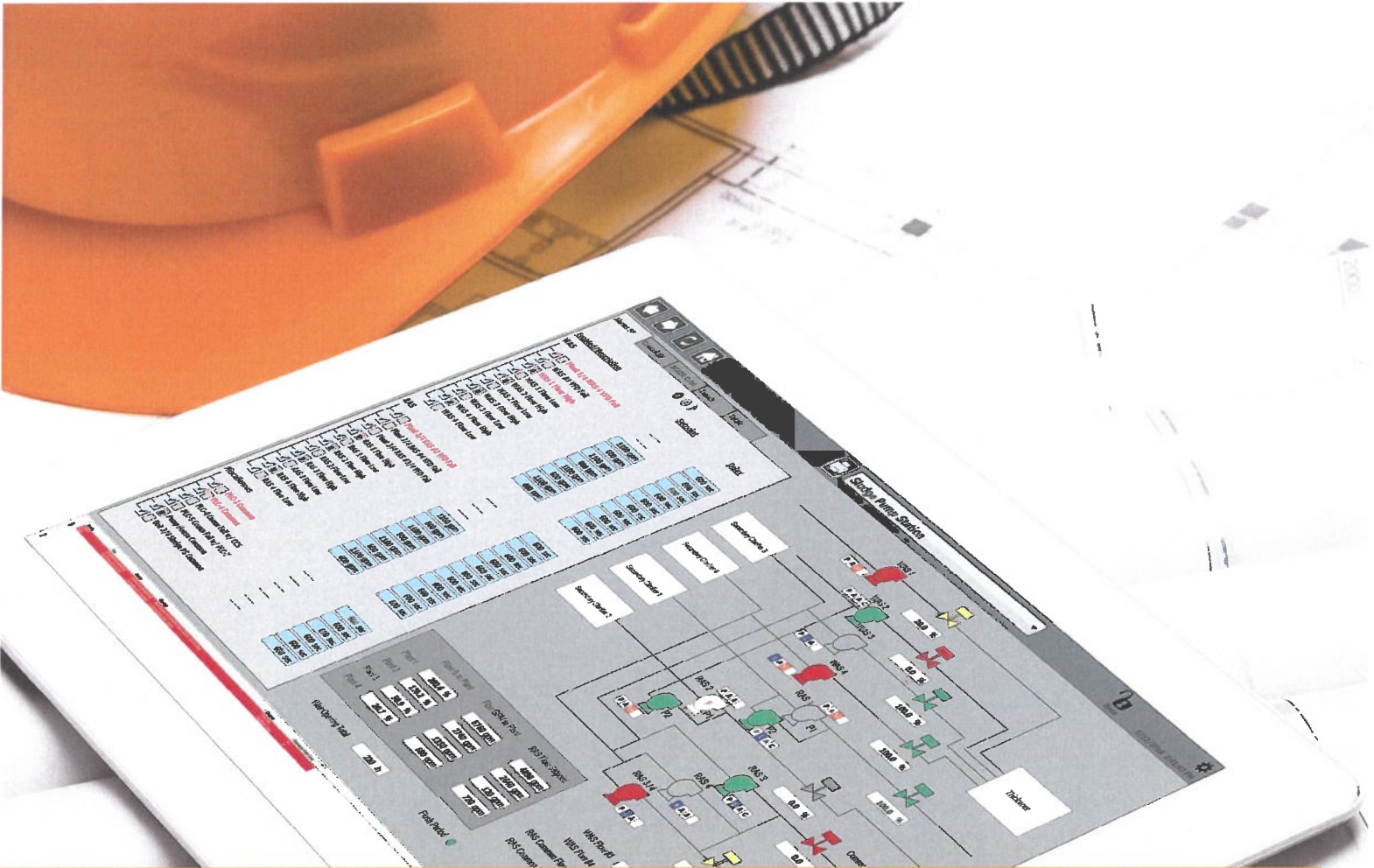
TESCO CONTROLS, INC.



Delven Diaz
Water/Wastewater Estimating Sales Manager
ddiaz@tescocontrols.com

Santa Clara Valley

WATER DISTRICT



QUALIFICATIONS

Residuals Remediation Project

Client Ref #93294058 | June 09, 2021





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WW-639 Oceanside WPCP Digester Gas Utilization Upgrades 13

Enterprise SCADA and Telemetry Support Program 14

Water Reclamation Facility 15

Water/Wastewater System Experts

TESCO's engineers specialize in building new and upgraded systems for large treatment plants, complex distribution and collection networks, and small improvement projects.

Unlike typical process control installations, water/wastewater designs and deployments must consider telemetry, advanced communications, regulatory compliance, and security, as well as the vital role control systems play in ensuring public health and safety.

Our subject matter experts understand the unique requirements and the challenges that industrial control system automation projects present in expediting project start-up and effectively collaborating to identify, design, and implement custom project solutions. We deliver projects involving treatment facilities, collection systems, distribution systems, pipelines, tanks and reservoirs, wells, pump stations, pressure reducing stations, lift stations, energy conservation, and renewable energy.

TESCO's in-house team includes engineering professionals with professional designations and certifications (PE and PMP):

- **Electrical engineers**
- **Instrumentation and Control System engineers**
- Power System engineers
- Computer, Systems, and Software engineers
- Communications and Networking engineers
- PLC and SCADA-HMI programmers
- **ISA-Certified Field Service engineers and technicians**

TESCO's Capabilities and Resources: With a bench of 400+ employee-owners focused exclusively in the water/wastewater industry, our in-house resources include highly-skilled electrical and control system engineers, seasoned PLC programmers, SCADA engineers, field service engineers, and an experienced project management team that excels in the delivery of SCADA system solutions. Since 1972, TESCO has:

- Completed over 50,000 projects,
- Implemented over 400 SCADA systems,
- Managed 965 SCADA maintenance contracts, and
- Successfully delivered projects for over 4,300 different water/wastewater agencies.

Our reputation is based upon providing high-quality, end-to-end services – from project management and front-end engineering to field cut-over and commissioning.

Our services ensure continuity from initial planning to final commissioning so we can deliver projects on time, on target, and on budget.

Engineering: TESCO employs a diversified staff of qualified electrical, communications, and control system engineers. Our engineers are uniquely specialized in fields related to industrial electrical, instrumentation and controls, communications, and process control systems. We are capable of providing all the services necessary to design, implement, and support systems from inception to operation.

- Instrumentation and control systems
- Electrical switchgear (UL-891)
- Network infrastructure and cybersecurity
- Radio/telemetry systems
- Power distribution systems design and analysis
- Electrical motor control equipment (UL-845)
- Industrial control panels (UL-508A & UL-698A)
- Arc Flash risk assessment and mitigation

Project Management: TESCO's Project Managers guide our multi-disciplinary teams in achieving all project goals and objectives, while honoring the preconceived project constraints – including scope, resources, time schedule, and budget.

As required, Project Management Professionals (PMP) coordinate TESCO's scope of work, as well as become involved with the overall project collaboration, coordinating with the owner, consultant, general contractor, subcontractors, and other vendor/system suppliers to ensure the requirements for project integration are met.

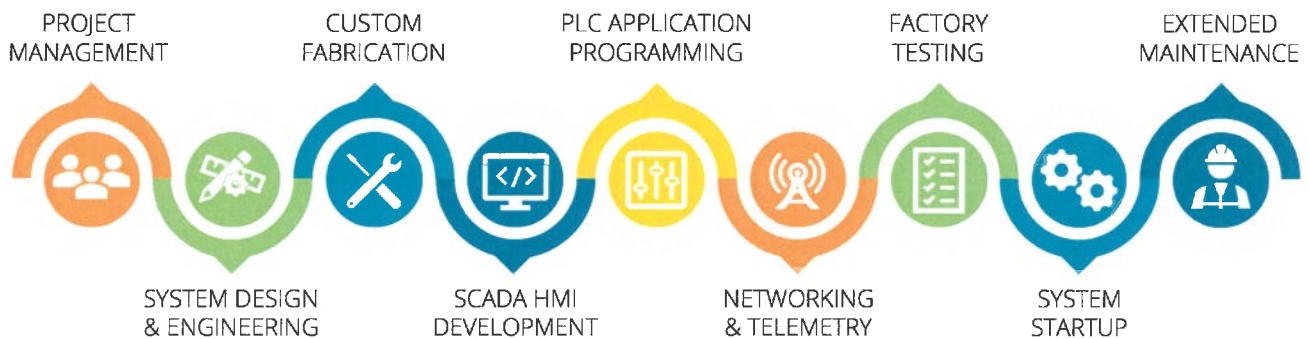
Employing PMP Certified Project Managers ensures the discipline of planning, organizing, and managing resources while addressing the successful completion of project specific goals and objectives.

SECTION 1

SYSTEM INTEGRATOR QUALIFICATIONS AND CAPABILITIES

Firm Information

TESCO Controls, Inc. (TESCO) is a full-service, Level One CSIA-certified Systems Integrator and OEM for power components with 48 years of experience specializing in the design and implementation of control solutions required to automate water/wastewater treatment systems and related processes throughout the U.S.



OEM For Equipment Providers: TESCO is an original equipment manufacturer (OEM) for most major equipment suppliers, including **Schneider Electric, AVEVA, and General Electric (GE)**, allowing TESCO to integrate and support the complement of hardware and software deployed in control systems.

TESCO's fully-equipped manufacturing center is capable of engineering, fabricating, assembling, wiring, and testing all electrical and control systems equipment for project implementation and support.

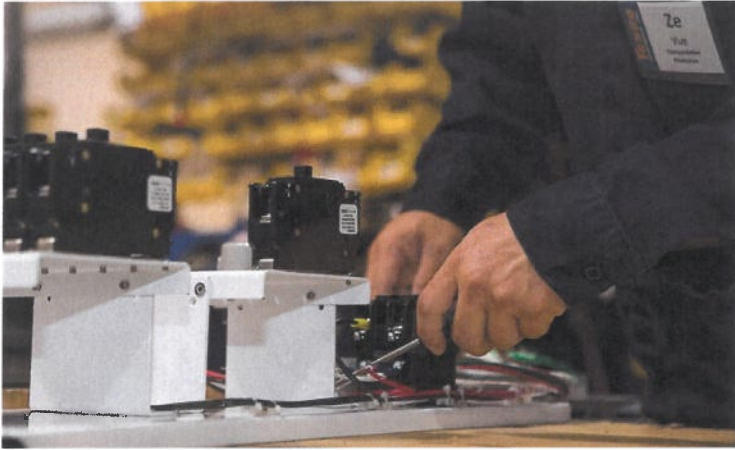
Custom Fabrication: Many projects require custom solutions that are not readily available through standard equipment manufacturers.



TESCO's 125,000 square foot, UL-listed manufacturing and production facilities are located at our Sacramento headquarters.

Whether space constraints require custom enclosures, add-ons are needed for original equipment, or standard delivery schedules will not meet project deadlines, TESCO has full in-house fabrication facilities to expedite equipment builds for project delivery needs.

All products are manufactured in accordance with UL, IEEE, NEMA, IEC, NEC and CSIA requirements.



Networking: Well-engineered network infrastructure is a critical requirement for reliable water/wastewater SCADA and process control systems. TESCO can help design, implement, and maintain network infrastructure to provide secure, robust, and fault-tolerant system architectures.

- Radio system engineering, path studies, and FCC licensing
- Data center equipment and rack design
- Backup power and cooling design
- Switching and routing
- Firewall implementation
- Network segmentation
- Network security design and industrial cybersecurity vulnerability mitigation
- Wide area private and public networks
- Fiber optic and copper-based designs
- WAN/LAN configuration

SCADA-HMI: TESCO is a leading provider of SCADA-HMI systems. We install SCADA systems nation-wide, and are certified in all major SCADA-HMI software packages.

Our team collaborates during the design phase to deliver feature-rich, field-proven SCADA-HMI programs to ensure reliable, robust and flexible control systems that fully meet the requirements of the project.

- SCADA-HMI application development
- System standards development
- Customized process displays
- Cybersecurity remediation
- Virtualized systems

- DCS and SCADA migrations
- Data backup and disaster recovery systems

Assessments: Designed to help water agencies address concerns about the reliability and sustainability of their process control systems, TESCO works collaboratively with the client to collect and document information related to their process control system automation technologies. An independent review and detailed analysis of findings is presented.

- SCADA-HMI and PLC application software backups
- SCADA and process control system (PCS) block diagrams
- Automation asset inventory spreadsheets
- Complete listing of IP networks, subnetworks, VLANs, and IP devices present in the system
- Technical report that incorporates findings, observations, and prioritized recommendations for key areas of improvement

PLC Programming: TESCO employs programming methodologies, both custom and templated, designed specifically for the water and wastewater industries. We leverage available technologies coupled with proven methods for software, communications, and hardware integration. Our team can upgrade aging systems while keeping critical plant processes online during the renovation.

*TESCO programs many devices:
PLCs, OITs, web servers, power
monitors, and auto dialers.*

Commissioning: TESCO uses a standardized approach to commissioning systems to confirm that the system performs as expected and per project requirements. Standard methods and procedures for system commissioning include: defined in phases, including:

- Factory testing
- Site testing / operational readiness testing
- Start-up / functional acceptance testing
- Switchover, commissioning
- Performance acceptance testing
- Operational and maintenance training



Custom fabrication options give clients the freedom to design solutions tailored to their needs, aesthetic, budget, and schedule.

Panel Fabrication & Staging Facilities

Our 125,000 square foot, Sacramento Headquarters and UL-Listed Manufacturing Facility, located only 90 miles away from San Francisco, facilitates agile project delivery and thorough factory testing. This fully-equipped manufacturing facility, complimented by our nearby field service and engineering offices in San Francisco and Salinas, includes a complete metal fabrication shop, powder coating paint line, wiring and assembly departments, and a dedicated factory staging and test lab. TESCO's control panels, service pedestals, and power distribution gear is manufactured in this facility, including anything we manufacture or modify acting as an OEM on behalf of Rockwell Automation.

MANUFACTURING SERVICES

TESCO manufactures at least 50 percent of the specified system in-house. Our fully-equipped manufacturing center is capable of fabricating, assembling, wiring, and testing all electrical and control systems equipment for project implementation. Our expertise in this area lends perfectly to designing and engineering all aspects of electrical distribution and control system requirements, as well as providing required equipment for turn-key, integrated solutions.

TESCO is an authorized Underwriters Laboratory (UL) manufacturer of electrical power and industrial control systems. TESCO systems are manufactured in accordance with UL, IEEE, NEMA, IEC, and NEC requirements. All assemblies adhere to strict manufacturing guidelines and quality control procedures. All phases of the manufacturing life cycle undergo an established quality control procedure to ensure the highest quality system.

TESCO incorporates the LEAN® manufacturing model in our quality control process.

TESCO's manufacturing capabilities include:

- Custom enclosures (painted galvanized steel, 316SS, 304SS, aluminum, anodized aluminum)
- Electronic assemblies (programmable controllers, instrumentation, communications)
- Custom motor control systems
- Custom and standard power distribution systems
- Custom and standard pump station power distribution and control enclosures
- Electrical, hydraulic and pneumatic instrumentation control panels

FABRICATION

CUSTOM ENCLOSURES

- (Painted Galvanized Steel, 316SS, 304SS, Aluminum, Anodized Aluminum)
- Custom enclosures manufactured in accordance with NEMA standards in variety of styles and configurations. TESCO's enclosures and paint process meet State of California Department of Transportation (Caltrans) strict traffic enclosure test requirements for vandalism, glare, and salt spray duration testing.

ELECTRONIC ASSEMBLIES (PROGRAMMABLE CONTROLLERS, INSTRUMENTATION, COMMUNICATIONS)

TESCO-manufactured electronic assemblies (PLC, RTU, communications, instrumentation, etc.) are designed to withstand harsh industrial environments. These assemblies undergo temperature testing to 200 degrees F.

CUSTOM MOTOR CONTROL SYSTEMS

As an OEM, TESCO manufactures low-voltage (600V and below) motor control centers (MCCs) that include both indoor and outdoor applications. We have UL file extensions for major MCC manufacturers and can customize their standard product offerings.

Integrated motor controls can include solid state controllers, electro-mechanical starters, variable frequency drives, reduced voltage solid start starters, panelboards, PLC control sections, and communication packages.

CUSTOM AND STANDARD POWER DISTRIBUTION SYSTEMS

TESCO is UL authorized to manufacture distribution switchgear to 4000 A. All distribution and service pedestals are designed in accordance with utility system requirements. TESCO provides a variety of switchgear configurations employing auto-transfer switches, power monitoring and control, and feeder distribution.

CUSTOM AND STANDARD PUMP STATION POWER DISTRIBUTION AND CONTROL ENCLOSURES

TESCO provides a variety of standardized pump control packages for storm water, sewage lift, well pump, and booster stations. All pump stations can be supplied in low profile metered or unmetred enclosures systems.

ELECTRICAL, HYDRAULIC AND PNEUMATIC INSTRUMENTATION CONTROL PANELS

As an OEM, TESCO manufactures a variety of electrical, hydraulic, and pneumatic instrumentation and control panels.

COLORS AND COATINGS

All enclosures are prepared and powder coated in-house in an array of standard RAL color finishes. We also offer custom colors and anti-graffiti coatings, which are available upon request.

WARRANTY POLICY

TESCO-provided equipment is warranted against defect in design, workmanship and materials for a period of one year from the date of installation, unless otherwise specified.

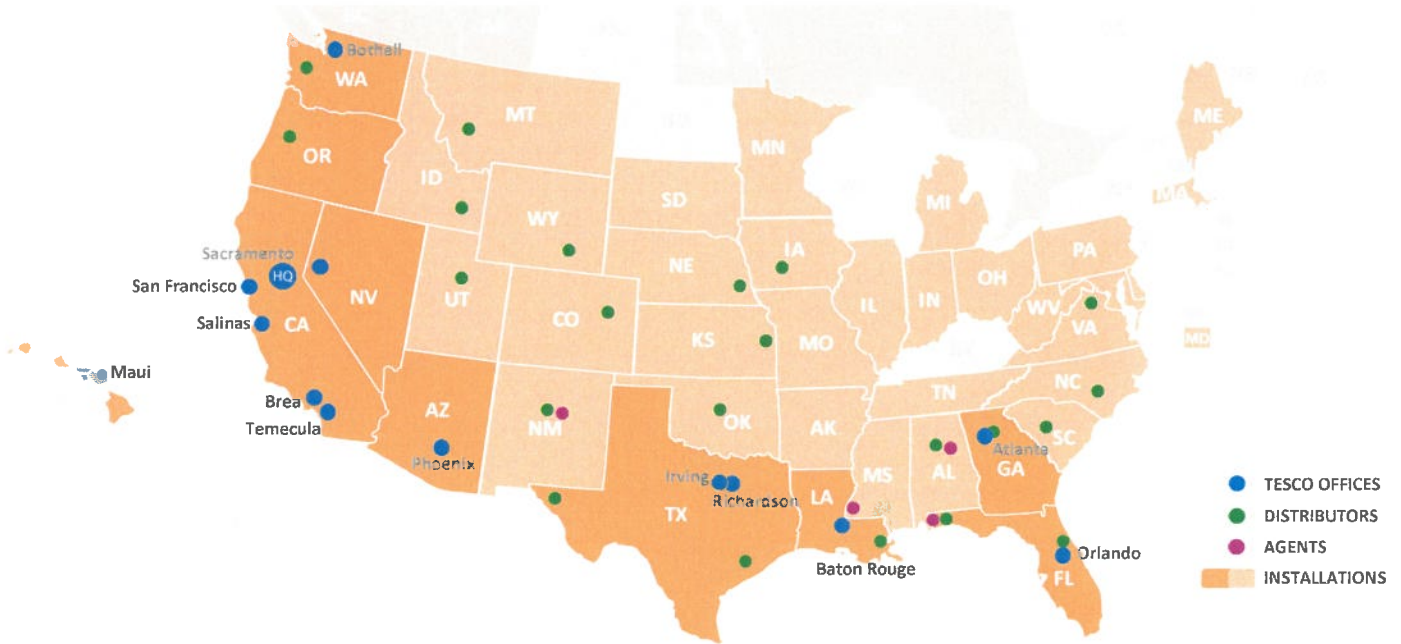
INDEPENDENCE FROM LITIGATION

TESCO is not involved in any current or pending litigation, claims, or legal dispute with any owner agency or municipality.

Locations & Contact Information

Sacramento, California houses TESCO's corporate headquarters and main manufacturing facility. To better serve our clients, we have opened offices and service centers throughout the United States, including California's central coast, bay area, and Southern California, the Northwest, Southwest and Southeast. The company plans to expand into Texas in the near future.

We value our commitment to provide responsive customer service to our clients across the country. Our offices and service centers are staffed with a variety of disciplines including electrical engineers, communication engineers, software engineers, field service engineers, service technicians, and business development professionals – all focused on our regional customers and their unique needs.



TESCO OFFICES

Corporate Headquarters & Manufacturing Center

8440 Florin Road
Sacramento, CA 95828
916.395.8800

Southern California

42015 Remington Avenue
Suite 102
Temecula, CA 92590
951.308.6450

Central California

1315-B Dayton Street
Salinas, CA 93901
800.948.3726

Bay Area California

600 California Street
11th Floor
San Francisco, CA 94108
800.948.3726

Nevada

213 Sage Street, Unit 3
Carson City, NV 89706
800.948.3726

Oregon

5250 High Banks Road
Suite 440
Springfield, OR 97477
800.948.3726

Washington

20250 144th Avenue NE
Woodinville, WA 98072
800.948.3726

Louisiana

4467 Bluebonnet Boulevard
Suite B
Baton Rouge, LA 70809
800.948.3726

Georgia

800 Battery Avenue SE
Suite 100
Atlanta, GA 30339
800.948.3726

Arizona

2 N. Central Avenue
Suite 1800
Phoenix, AZ 85004
800.948.3726

Dallas-Area Office & Manufacturing Center

8000 Jetstar Road
Suite 150
Irving TX, 75063
817.343.7163

Trimax Systems Inc.

565 Explorer Street
Brea, CA 92821
714.255.8590

Trimax Systems Inc.

1221 Abrams Road
Suite 327
Richardson, TX 75081
714.255.8590

TESCO's Current Certifications

SYSTEMS INTEGRATION/ MANUFACTURING

- ABB Authorized Value Provider
- Control System Integrators Association (CSIA) Certified Level 1
- Rockwell Automation Solutions Partner
- Schneider Certified Alliance System Integrator
- Schneider Electric Square D Electrical Equipment Manufacturing Partner
- Siemens Solution Partner

CONTROL SYSTEM/ PLC PLATFORMS

- Rockwell Automation
 - » Allen-Bradley
 - » Studio 5000 & Studio 500
 - » RSLogix
- AVEVA
 - » Modicon
 - » SCADAPack
 - » Unity PRO
 - » Concept
 - » ProWorx 32/NxT
 - » TelePace
- Siemens
 - » TIA Portal, STEP 7

UNDERWRITER'S LABORATORY

- UL-891 Electrical Switchgear
- UL-508A Industrial Control Panels
- UL-698A Industrial Control Panels
- UL-845 Motor Control Centers Extensions

SCADA-HMI /DCS PLATFORMS

- ABB
 - » Symphony
- GE
 - » Proficy iFix
 - » Proficy iHistorian
- Inductive Automation
 - » Ignition
- Rockwell Automation
 - » PlantPax
 - » FactoryTalk View SE
 - » RSView
- AVEVA
 - » AVEVA InTouch
 - » AVEVA System Platform
 - » AVEVA Edge**
 - » AVEVA Historian
 - » ClearSCADA
- Siemens
 - » WinCC OA
 - » WinCC v7x
 - » WinCC Pro
- Trihedral
 - » VTScada
- Other
 - » Canary Labs Axiom
 - » Canary Enterprise Historian
 - » Specter Instruments – WIN-911
 - » TopView Alarming

CONTRACTOR'S STATE LICENSING

- C-10 Electrical—California State Contractor's License

DESIGN-BUILD INSTITUTE OF AMERICA

- DBIA Member

REGISTERED PROFESSIONAL ENGINEERS (PE)

- Control Systems (CS)
- Electrical Engineering (EE)
- Mechanical Engineering (ME)

PROJECT MANAGEMENT

- Project Management Professional (PMP)

NETWORKING AND INFRASTRUCTURE

- Cisco Certified
 - » CCDA
 - » CCNP
 - » CCNA
- VMWare Certified
- Microsoft Certified

FIELD SERVICE

- ISA Certified Technicians

MISCELLANEOUS

- NEMA Compliant
- EUSERC Compliant
- IEEE IAS and IEEE 1584
- GSA Approved

*AVEVA includes Schneider Electric's former industrial software as well as Wonderware.

**Formerly known as Indusoft Web Studio

Originally UL-authorized in the 1970's, our most recent UL certification was granted in 2015.

RELEVANT EXPERIENCE & REFERENCES

INDUSTRY RECOGNITION DEMONSTRATES TESCO'S DEDICATION TO SUPPORTING CRITICAL WATER/WASTEWATER SYSTEMS

As one of the largest systems integrators in North America focused on this market, TESCO is uniquely qualified to design and build advanced control systems for the industry. Over 95% of our projects are water/wastewater systems or renewable energy projects in the water/wastewater sector. Our year-over-year success is demonstrated not only by the long-term employee-owner staff and company growth, but in being recognized within the industry:

- **Ranked #10 for all control system disciplines** internationally in the *2020 System Integrators Giants List* by Control Engineering.
- Listed as one of the **top 10 companies leading the global water/wastewater management and operational control market** according to *Transparency Market Research* in December 2017.
- Named **“System Integrator Market for Industrial Automation by Service Outlook...Global Outlook to 2022”**, published by *MarketsandMarkets* in April 2017, with TESCO listed as a key player.

THE RIGHT EXPERIENCE TO ACHIEVE THE SANTA CLARA VALLEY WATER DISTRICT'S OBJECTIVES

TESCO's primary focus is on projects involving automated control systems for water/wastewater treatment plants and associated infrastructure, and our experience proves that our best solutions incorporate input from the operators. The familiarity of the maintenance and operations staff have with existing systems, and their "wish lists" of improvements to optimize operational efficiency provide TESCO with direction to apply our expertise in the planning, design, implementation, and integration of automated controls systems and SCADA upgrades.

Because mitigating system downtime is a high priority, we utilize a highly-collaborative approach that solicits input from District staff and project stakeholders to confirm proper planning.

Our recent and ongoing experience with municipalities of similar size and scale (including the City of Roseville, California and San Francisco Public Utilities Commission) demonstrate our ability to deliver a project that incorporates your goals for resiliency, cybersecurity, operational efficiency, regulatory compliance, and provides the Santa Clara Valley Water District with effective systems integration services. We understand from experience the need to deliver projects that provide consistent operator experience, leverage technology for the greatest return on investment, and minimize operational impact during modernization of brownfield installments.

The following table lists five recent, relevant projects that are summarized in the following pages, with contract amounts, relevant project components, and client reference contact information.

PROJECT NAME / OWNER AGENCY	TESCO'S ROLE	DATES
SCADA System Replacement City of Roseville, CA	Prime Contractor	August 2013 – September 2018
WW-628-02A Bruce Flynn Pump Station Improvements San Francisco Public Utilities Commission	Subcontractor	January 2019 – October 2020
WW-639 Oceanside WPCP Digester Gas Utilization Project San Francisco Public Utilities Commission	Subcontractor	August 2018 – February 2021
Enterprise SCADA and Telemetry System Program San Gabriel Valley Water Company	Design Assist/Design Build	October 2009 – September 2019
Water Reclamation Facility Hi-Desert Water District	Subcontractor	November 2018 – February 2020

Client Commendation – City of Roseville

“In 2013, the City of Roseville Environmental Utilities Department (EUD) completed a formal Design-Assist RFP process and selected WT-Roseville joint venture to complete a project to replace our three legacy DYNAC VMS-based SCADA systems with GE iFIX SCADA systems. The joint venture was comprised of TESCO Controls Inc. (TESCO), and an engineering firm.

The project started with TESCO functioning as the technical lead for the joint venture, while partnering with EUD and CH2M, EUD’s engineering consultant, to transform the preliminary design into a final design. The updated design included extensive “what-if” analysis of all facets of the original design. As a result of these analysis, nearly every element of the original design was enhanced; including adding redundancy elements to the hardware and software, and significantly revising the network architecture. The network enhancements also ensured our new SCADA system was compliant with NIST and AWWA cybersecurity guidelines.



EUD introduced an additional layer of collaboration for TESCO, when we engaged the Department of Homeland Security (DHS) ICS-CERT staff to perform a facilitated cybersecurity evaluation (CSET) on the draft final design, then a Design Architecture Review (DAR) on the final design, and finally the Network Architecture Verification and Validation (NAVV) testing on the operating system. Following the NAVV, DHS provided outstanding feedback regarding the efforts of the technical team led by TESCO staff; including the following quoted observed strengths:

- “Good segmentation and control of data flow”*
- “Highly skilled and Knowledgeable IT and OT staff”*
- “Significant collaboration in designing and implementing the new SCADA system”*

TESCO also led the effort to convert the DYNAC databases to a format suitable for importing into iFIX. The two databases are fundamentally much different from each other, thus in many cases, a single point in the DYNAC database resulted in several points in the iFIX database. Their proper alignment of the various tags versus their virtual states was challenging and required the generation of thousands of new SCADA tags that conformed to EUD standards. Their efforts allowed EUD staff to standardize all of the existing tags and the associated descriptions in the database.

Before the second SCADA system FAT was completed, TESCO’s joint venture partner was dissolved, forcing TESCO to complete the project on their own. TESCO has not shrunk from this new challenge, and is working diligently to complete the project on schedule and within the defined budget. There are many more elements to the project where TESCO has brought their excellent technical knowledge, skills and abilities to bear; so this only covers some of the big challenges.”

—Mr. Charles K. Aycock, EIM Systems Coordinator, City of Roseville Environmental Utilities Department

SCADA SYSTEM REPLACEMENT

City of Roseville, California

TESCO worked with the City of Roseville Environmental Utilities Department (City) to migrate three, proprietary, aging distributed control system (DCS) systems and other HMIs to GE's iFIX SCADA. The new system retained the City's proven control schemes, functionality and operational history while adding a state-of-the-art, user-friendly interface that enables comprehensive water and wastewater operations management, analysis and control.

Aging System Needing Replacement: The City operates a 100 mgd water treatment plant, two wastewater treatment plants (12 mgd and 18 mgd), and a dual-purpose pump station to serve 132,671 residents across their 50-square mile service area. After 25 years of use, the Transdyn DYNAC DCS and other control systems were unsupported and at the end of their useful life.

Implementation of New SCADA System: Following a SCADA master plan and 60 percent design (by CH2M Hill, now dba Jacobs), the City selected GE iFIX and Historian. The City selected TESCO to deliver a turnkey solution through a collaborative, "Design-Assist" approach. TESCO provided design and implementation services for the replacement of the existing DYNAC system with GE iFIX and Proficy Historian software. In addition to replacing the DYNAC system for the City's three treatment plants, the City also implemented iFIX to replace the standalone Wonderware systems at the Dual-Purpose Pumping Station, Dry Creek UV systems, and Pleasant Grove UV systems, as well as the Hypochlorite Magelis system at the Dry Creek facility.

Benefits of the New System: The new SCADA systems provides remote monitoring and control of treatment processes, water distribution, recycled water, wastewater collection, and stormwater facilities via various communications methods. New HMI hardware and software was provided, installed, and programmed by TESCO. Data from Proficy Historian was integrated with the existing Oracle HDR system, plus iFIX interfaces with a number of different PLC protocols (including Modbus/TCP) at plants and remote sites. TESCO developed a tool for transitioning the existing DYNAC (DCS) databases for all three plants to the new iFIX systems.

Cybersecurity Architecture: TESCO also hosted a Department of Homeland Security (DHS) audit to review physical security, cybersecurity (CSET facilitated), design architecture (DAR) and conduct Network Architecture Verification and Validation (NAVV). The system architecture allows business users unprecedented access to operational history without compromising security.

The resulting system added redundancy, applied security practices for defense in depth, and streamlined reporting.

OWNER AGENCY: CITY OF ROSEVILLE

REFERENCE

Ken Glotzbach
Project Manager/
EIM Systems Coordinator
(Retired from City October 2019)
916.768.6559 mobile
charles@
muniauto.onmicosoft.com

CONTRACT

\$7,719,000

DATES

August 2013 –
September 2018

RELEVANCE TO SANTA CLARA VALLEY WATER DISTRICT

- Modicon PLC Integration
- Multiple Monitoring Centers
- More than 5 PLCs
- Procurement & Installation
- Programming
- Testing
- Integration
- Start-Up, Staff Training, and O&M Manuals

**OWNER AGENCY:
SFPUC**

REFERENCE

Jignesh Desai, PE, BCEE, ENV SP
Project Manager
415.551.4657
jdesai@sfgwater.org

CONTRACT

\$2,426,700

DATES

January 2019 – October 2020;
Currently in start-up phase

TEAM

- Project Manager:
Kevin Ford, PMP
- Field Services:
Alan Horikawa, CCST
Wess Wissinger, CCST
- PLC Programmers:
AJ Cottengim
Blake Robinson
- Design Engineer:
Hinh Nguyen
- PROFIBUS Network Design:
Sean Timmons
- Electrical Engineer:
Namgay Tshering, PE, CESC
- Networking & Telemetry:
Brendon Horn

**RELEVANCE TO
SCVWD**

- Modicon PLCs
- More than 5 PLCs
- Multiple Monitoring Centers
- Upgrade of PLCs
- PROFIBUS system at SFPUC
- Coordination with Emerson
- Procurement
- Installation
- Programming
- Arc Flash Risk Assessment
- Testing
- Integration
- Start-Up, Staff Training, and O&M Manuals

WW-628-02A BRUCE FLYNN PUMP STATION IMPROVEMENTS

San Francisco Public Utilities Commission (SFPUC), California

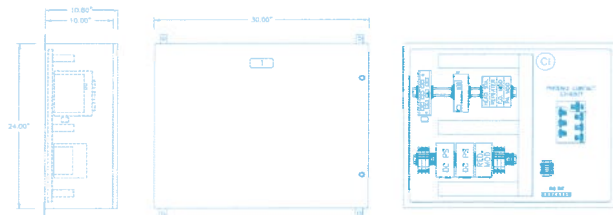
As part of SFPUC’s 20-year, city-wide Sewer System Improvements Program project to upgrade the aging sewer system and increase sustainability and reliability, this project replaces headworks at the Southeast Water Pollution Control Plant (SEWPCP) with a 250 mgd capacity all-weather facility. The project encompasses three primary scopes of work, including implementation of a flow re-route pipe to send wet weather flows around an existing headworks facility, upgrades and general modifications within the existing Bruce Flynn Pump Station, and construction of a new reinforced concrete headworks structure.

The project replaced old electro-mechanical relays with new microprocessor based relays at 12.47KV Switchgear. It also replaced six 430 HP submersible pumps with 500 HP pumps six 430HP submersible pumps and associated VFDs, two wet well dewatering pumps, and installed new electrical appurtenances, instrumentation sets, and control packages. Project challenges include implementing pump station upgrades within the SEWPCP while under construction for numerous concurrent upgrades during continuous operations.

To achieve SFPUC’s goals for system-wide efficiency, enhanced operations, and increase treatment process capacity, TESCO conducted a short-circuit and coordination study, performed an arc flash risk assessment, designed updates to panel and switchgear layouts, and designed wiring diagrams and relay settings. TESCO also performed modifications on several pieces of medium-voltage equipment, requiring significant coordination and planning related to power outages while numerous contractors performed work simultaneously.

TESCO’s ability to perform extensive, on-site modifications to medium-voltage equipment while proactively coordinating power outages with numerous contractors allows us to perform parallel work, and to deliver streamlined installation, start-up, and testing activities.

TESCO also provided several new ABB VFDs and controllers, as well as new local control stations, instrumentation panels, control panels, and a PROFIBUS panel. Professional services included design-build engineering services, PLC and local HMI programming, network configuration, factory testing, and on-site product start-up and training services. This project required substantial coordination and collaboration with Emerson to confirm proper integration into the Ovation Distributed Control System.



The Manifold Room Field Panel (shown in the adjacent figure) houses the PROFIBUS component at the Bruce Flynn Pump Station.

WW-639 OCEANSIDE WPCP DIGESTER GAS UTILIZATION UPGRADES

San Francisco Public Utilities Commission (SFPUC), California

This \$38.4 million upgrade project replaced aging digester biogas internal combustion cogeneration systems at the 17 mgd Oceanside Water Pollution Control Plant. TESCO was responsible for providing electrical equipment, instrumentation, process equipment, as well as programming, installation, testing, integration, and start-up services.



TESCO conducted an arc flash risk assessment and provided control system integration for PLC/HMI interfaces related to the power engines, generator control panel system, engine main control panel, power generation switchgear, SEL RTAC system, as well as power monitoring systems associated with the Emergency Diesel Generator System and the three Cogeneration Engines.

TESCO built a software model of the entire plant for power system analysis and provided settings for the new microprocessor-based relays. TESCO also provided PLC and OIT/HMI programming, implemented modifications to the Main Plant switchgear, furnished transformers, and provided lighting panels, boiler control panels, hot water loop pump control panels, and temperature valve controllers.

Instrumentation provided by TESCO includes pressure devices, level devices, magnetic flow meters, thermal mass flow meter, combustible gas analyzers, sample gas control systems, and a myriad of sensors. TESCO also provided system training for SFPUC staff and detailed O&M manuals.

OWNER AGENCY: SFPUC

REFERENCE

Mike Maraviglia
Electrical Supervisor
415.850.6766
mmaraviglia@sfgwater.org

CONTRACT

\$1,604,386

DATES

August 2018 – February 2021

TEAM

- Project Manager:
Andre Crockett
- Field Services:
Alan Horikawa, CCST
Wess Wissinger, CCST
- PLC Programmers:
AJ Cottengim
Blake Robinson
- Electrical Engineer:
Namgay Tshering, PE, CESC
- Networking & Telemetry:
Brendon Horn

RELEVANCE TO SCVWD

- Modicon PLCs
- More than 5 PLCs
- Multiple Monitoring Centers
- Upgrade of PLCs
- PCSI Services at SFPUC WPCP
- Procurement
- Installation
- Programming
- Arc Flash Risk Assessment
- Testing
- Integration
- Start-Up, Staff Training, and O&M Manuals

OWNER AGENCY: SGVWC

REFERENCE

Tom Schiewe
Chief Plant Operator 626.448.6183
tjschiewe@sgvwater.com

CONTRACT

\$3 million over 10 years

DATES

2009 – Ongoing

TESCO TEAM

- Project Manager:
Lewis Smith
Jarrod Lippen
- PLC Programmer:
Raju Nair
- SCADA Programmer:
Keith Webb,
Vadim Artishuk
- Networking:
Brendon Horn
Josh Choe

RELEVANCE TO SCVWD

- **Modicon PLCs**
- **More than 5 PLCs**
- **Multiple Monitoring Centers**
- **Upgrade of PLCs**
- Upgrade of an existing Wonderware SCADA system with **45 remote PLC sites**
- Professional Service Agreements
- System assessment
- Engineering recommendations
- Budgetary estimates
- Design-build implementation

ENTERPRISE SCADA AND TELEMETRY SUPPORT PROGRAM

San Gabriel Valley Water Company (SGVWC), California

TESCO serves as the Systems Integrator for all of SGVWC's PLC/RTU solutions, RF telemetry and network communication systems, and SCADA system integration, providing ongoing preventative maintenance and system support services.

TESCO has delivered more than 60 project phases for approximately \$3 million in SCADA control system program upgrades for SGVWC, a retail water supplier managing 47 sites within the Company's El Monte, Industry, and Montebello service areas; 67 sites in the Whittier Narrows service area; and 49 sites in the Fontana Water Company service area.

SGVWC's vast, comprehensive water automation and management system utilizes several types of water process technologies in order to supply potable drinking water for their communities. TESCO works with SGVWC and their partners to develop design requirements that evolve based on SGVWC's needs. We collaborate to produce practical, scalable, and reliable solutions that meet SGVWC's progressively stringent criteria. Recent activities include the development and deployment of a coordinated control versus process demand system for SGVWC's in-conduit hydroelectric energy recovery efforts, where TESCO's integration expertise was sought to coordinate the requirements for optimizing energy production while meeting the water delivery demands spanning across branches of service areas.

Evolution in technology adoption and data payloads plays a crucial role in our design considerations for orchestrating how data traffic traverses the process control networks.

TESCO's personnel integrated multiple brands of technologies onto the process control network (residing between SCADA consoles and PLC/RTU solutions) that required special considerations to efficiently administer data traffic throughout SGVWC's vast wireless radio communications system, which operates securely in the 450 MHz, 900 MHz, and 5.8 GHz RF bands.

Core elements of SGVWC's SCADA Program included upgrading and deploying Wonderware SCADA servers (inclusive of redundant, hot-standby/ auto-failover and dedicated historian functionality) to support multiple system clients for HMI/SCADA interface needs, including both local and secure remote access. TESCO developed SCADA graphical screens that provide SGVWC's operations staff with full monitoring and control capabilities with proper authentication login, which administers various assigned access profiles to individual users.

Our SCADA solution also provides SGVWC with local alarm annunciation, plus remote alarm notifications to operators who are away from the SCADA terminals or to escalate an alarm event when necessary. The historian systems facilitate data logging, queries, reports, and trend charts for SCADA users. We also integrated resilient system backup and disaster recovery provisions within the SCADA solution to allow for expedient recovery in the unlikely event of a catastrophic system failure.

WATER RECLAMATION FACILITY

Hi-Desert Water District, Yucca Valley, California

This project involved constructing a new Water Reclamation Facility to treat and reclaim 1.2 million gallons of wastewater per day.

With a total service area of 57-square miles, the District operates 16 storage tanks, 13 wells, and maintains over 297 miles of pipeline. In addition to providing water for customers, the District constructed the area's first centralized sewer system with a wastewater treatment and reclamation facility to provide future sewer service to its customers. This project constructed a new 1.2 mgd Water Reclamation Facility.

For this \$30 million project, TESCO provided, configured, and implemented all new SCADA hardware and software in a hot-standby configuration with an accompanying process historian. TESCO provided and configured all new core networking equipment, a new main switchboard, TESCO-manufactured motor control centers (MCCs), variable frequency drives (VFDs), and instrumentation sets including flow meters, transducers, and analyzers. TESCO also configured and programmed all newly-provided PLC systems.

OWNER AGENCY: HI-DESERT WATER DISTRICT

REFERENCE

Doug Culbert
Chief Plant Operator
760.228.6278
doug@hdwd.com

ENGINEER

John Wyckoff, PE
Design Engineer
Kennedy/Jenks
650.852.2800
JohnWyckoff@kennedyjenks.com

CONTRACT

\$2,728,222

DATES

Water Reclamation Facility:
July 2017 – December 2019

TEAM

- Project Manager: **Jarrod Lippen, PMP**
- SCADA Engineers: **Jon Shores**
Ethan Duncan
- Field Services: **Jacob Deckerlegand**
- PLC Programmer: **Luis Johnson**
- Project Engineer: **Alfonso Ducreux**
- I&C Engineer: **Jonas Paragas**

RELEVANCE TO SCVWD

- Modicon PLCs
- More than 5 PLCs
- Multiple Monitoring Centers
- Upgrade of PLCs
- Procurement
- Installation
- Programming
- Testing
- Start-Up, Staff Training, and O&M Manuals



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www.valleywater.org
scvwdplanroom@valleywater.org

Santa Clara Valley Water District
Notification of this Addendum is transmitted via email to all current plan holders.
This Addendum is posted on the Valley Water website at
<https://www.valleywater.org/construction>

June 1, 2021

ADDENDUM NO. 1
TO CONTRACT DOCUMENTS FOR THE
RINCONADA WATER TREATMENT PLANT (RWTP)
RESIDUALS REMEDIATION PROJECT
Project No. 93294058 Contract No. C0671

Notice is hereby given to Prospective Bidder that the Contract Documents are modified as hereinafter set forth.

BID DOCUMENTS

NOTICE TO BIDDERS

1. **REPLACE** Item No. 3, on 3. Summary of Work, A. Project Description, with the following:
“3. Sludge Storage Tank (~~Alternative~~ **Supplemental** bid item for second tank);”

SPECIFICATIONS AND CONTRACT DOCUMENTS

SPECIAL PROVISIONS

Section 12 – Work and Contract Time(s)

2. **REPLACE** Paragraph C.3 in Article 12.03 Contract Time(s) with the following:
“3. **Milestone 3:** Completion of the new and modified centrifuge, conveyor, sludge transfer, **sludge storage tank(s)**, sludge feed, and polymer systems, including yard piping, site electrical work, electrical equipment, conduit, cable, panels, and SCADA and electrical testing and including improvements to Centrifuge Building B.”

Section 14 – Special Requirements

3. **DELETE** Paragraph F in Article 14.10.03. Document Contents in its entirety.
 - F. ~~If, at the time of the Project Bid, any manufacturer, supplier, or Subcontractor offers for use or sale an electronic copy of operations and/or maintenance information, it shall be provided with the paper information.~~

Section 16 – Work Constraints and Site Restrictions

4. **REPLACE** the entry in Table 16.01-01, No. 05, under Facility column with:
“Gravity Thickener 2”
5. **REPLACE** the entry in Table 16.01-01, No. 06, under Facility column with:
“Gravity Thickener 1”
6. **REPLACE** the entry in Table 16.01-01, No. 06, under Comments column with:
“Allow for a 14-day Plant recovery period followed by a 7-day sludge removal period for Gravity Thickener 1 (21 days total) between shutdowns”
7. **REPLACE** the entry in Table 16.01-01, No. 07, under Affected Operations column with:
“Entire plant (cannot send sludge from the clarifiers sedimentation basins to the thickeners)”

TECHNICAL PROVISIONS

Section 03 11 00

8. **ADD** Section 03 11 00 – CONCRETE FORMING

Section 03 21 00 – Reinforcement Steel

9. **REPLACE** Paragraph E in Article 3.03 PLACEMENT with the following:
 - “E. For concrete over formwork, provide concrete, metal, plastic, or other acceptable bar chairs and spacers. **Where the concrete will be exposed to water, the bar chairs and spacers shall be NSF 61 certified.**”

Section 09 96 00 – Protective Coating

10. **REPLACE** Paragraph B in Article 2.01 GENERAL with the following:
 - “B. Material Sources: Where manufacturers and product numbers are listed, it is to show the type and quality of coatings that are required. If a named product does not comply with VOC limits in effect at the time of Bid opening **material submittals**, that product will not be accepted, and the CONTRACTOR shall propose a substitution product of equal quality that does comply. Proposed substitute materials will be considered as indicated below. Coating materials

shall be materials that have a record of satisfactory performance in industrial plants, manufacturing facilities, and water and wastewater treatment plants.”

Section 43 21 29.05 – Chemical Metering Pumps

11. **REPLACE** Paragraph B in Article 2.02 with the following:

“B. General: Positive displacement diaphragm type metering pumps with 100:1 turn down ratio without stroke adjustment ~~by means of a brushless type D.C. motor.~~”

Section 43 25 06 – Submersible Solids-Handling Pumps

12. **REPLACE** Paragraph A in Article 2.03 MOTOR with the following:

“A. **Approval:** The pumping system, including the motor and wiring, shall be approved by a nationally approved testing agency for explosion-proof service. The system shall be rated Class I, Division 1, Group C and D service as determined by the National Electric Code and approved by a nationally recognized testing agency (UL or FM) at the time of opening Bids. The CONTRACTOR shall include ~~in the bid~~ **the first submittal, as specified in Article 1.02 Contractor Submittals**, a copy of the certificate of approval.”

Section 43 30 36 – Flow Metering and Control Valves

13. **CHANGE** the page footer on all pages from 09 96 00 to 43 30 36.

Section 43 41 45 – Fiberglass Reinforced Plastic Tanks

14. **REPLACE** Paragraph B in Article 1.01 SUMMARY with the following:

“B. Related sections:

~~General Standard Provisions~~

~~Special Provisions~~

~~Section 01 33 17 – Structural Design, Support and Anchorage.~~

~~Section 09 96 00 – Protective Coating.~~

~~Section 33 12 01 – Basic Mechanical Materials and Methods.~~

~~Section 40 20 20 – Mechanical Piping.~~

~~Section 40 90 00 – Instrumentation and Control for Process Systems.~~

Section 40 05 00 – Piping General

Section 40 91 00 – Process Control & Instrumentation Systems

Section 46 01 00 – Equipment General Provisions”

15. **ADD** Paragraphs A.4., A.5., A.6. and A.7. under Article 1.02 A. American Society for Testing and Materials as follows:

“4. D883 - Definitions of Terms Relating to Plastics.”

“5. D2471 - Gel Time and Peak Exothermic Temperature of Reacting Thermosetting Resins.”

“6. D2583 - Indentation Hardness of Rigid Plastics by Means of a Barcol Impressor.”

“7. D2584 - Ignition Loss of Cured Reinforced Resins.”

16. **DELETE** Paragraph D in Article 1.02 REFERENCE SPECIFICATIONS, CODES, AND STANDARDS in its entirety.

~~D. National Bureau of Standards (NBS)~~

~~1. NBS PS15-69 Voluntary Product Standard~~

Section 46 41 30 – Vertical Shaft Mixers

17. **DELETE** Paragraph D in Article 2.01 GENERAL in its entirety.

~~D. Factory Test: Each mixer unit shall be subjected to a full size scale factory test by the manufacturer of the units, in the exact field dimensions.~~

18. **DELETE** Paragraph A.1 in Article 2.02 MIXER UNITS in its entirety.

~~1. The units shall be designed to transmit to the water the indicated velocity gradient "G" based on the minimum water temperature indicated below, to provide an adequate pumping capacity, and to produce eddies which are essential to the flocculation process, at a minimum shear.~~

19. **CHANGE** the entries in the Criteria table under Article 2.02 B. as follows:

~~Top of slab to bottom of tank, ft~~ Top of slab elevation, ft
~~Motor Speed (rpm)~~ Maximum Motor Speed (rpm)

20. **REPLACE** Paragraph J in Article 2.02 MIXER UNITS with the following:

“J. Structural Strength and Stability: Structural members and connections shall be designed to withstand, within normal working stresses and deflections, loads imposed on them by rotation of the assembly at maximum design speeds submerged and dry, as well as loads which may be superimposed during or subsequent to erection while the basins are empty. The shaft shall be designed for a maximum stress not to exceed 44,000 **9,000** psi while under maximum operating loads. The shaft shall be of the overhung design, and the use of bottom steady bearings shall not be permitted. The shaft impeller design shall be such that the operating speed shall not exceed 70 percent of the first lateral critical speed. Lower shaft straightness, rigid coupling squareness, and output shaft accuracy shall give a maximum runout at the lower end of the shaft of 1/8-inch for every 10-feet of overhang, as measured when turning over by hand.”

GENERAL QUESTIONS AND RESPONSES

QUESTION 1: (Date Received: April 29, 2021)

Will the District be providing CAD files? The design data is lacking for an accurate takeoff.

RESPONSE 1:

No, CAD files will not be provided prior to bidding.

QUESTION 2: (Date Received: May 4, 2021)

Can you please provide a copy of the geotech report?

RESPONSE 2:

The April 2, 2020, Geotechnical Report prepared by ENGEO has been posted on the C0671 Construction Website at <http://www.valleywater.org/Construction> under the District Furnished Documents link.

QUESTION 3: (Date Received: May 7, 2021)

Sections 33 12 01, 40 20 20, and 40 90 00 are listed in Section 43 41 45 for the FRP Tanks, can you please tell me where I can locate a copy of those sections as they are not in the spec book? Please advise

RESPONSE 3:

These reference sections have been deleted. See item 14 of this Addendum.

QUESTION 4: (Date Received: May 10, 2021)

Detail S501 / GS-9 shows a Stud / Machine Bolt config for Grating attachment. In our past projects, this config has been difficult to shop weld to ensure the studs will be centered between the Grating Bars. They often need to be cut off in the field for re-welding or shipped loose for field welding. Is it acceptable to use Self-drilling screws? If not, Struct-Fast (www.structfast.com) offers alternative types of grating clips that eliminate the need for field welding. If either of these alternative config is acceptable, it will save the cost for field welding of studs in between bearing bars.

RESPONSE 4:

Using self-drilling screws is not acceptable. Other alternative grating clip configurations that utilize friction, as shown on www.structfast.com, are also not acceptable unless manufacturer can demonstrate the clips will remain firmly attached after a seismic event.

QUESTION 5: (Date Received: May 10, 2021)

At Centrifuge Bldg B, Dwg 4S-1 & Section B/ 4S-3, show a 2' SQ Sump Grating calling out S501 / GS-9, what is the Material of this Grating / Supports?

RESPONSE 5:

The grating material shall be fiberglass reinforced plastic per Specification Section 06 80 00.

QUESTION 6: (Date Received: May 10, 2021)

Per Dwg 4S-2 for the new Beams C10 x 15.3 and W10 x 26, Dwg calls out connection detail S191. However, S191 is not a beam to beam connection detail. Please provide correct Detail call out.

RESPONSE 6:

The detail should reference Standard Detail S562 on Sheet GS-11.

QUESTION 7: (Date Received: May 10, 2021)

At Centrifuge Bldg B Pump Station, Dwg 6S-1 shows a Stair. What is the Material of this Stair / Railings?

RESPONSE 7:

The stairs and railings shall be aluminum.

QUESTION 8: (Date Received: May 10, 2021)

At Centrifuge Bldg B Pump Station, Dwg 6S-1 shows a 2' SQ Sump Grating, what is the Material of this Grating / Supports?

RESPONSE 8:

The grating shall be aluminum as specified in Section 05 50 00 of the Project's Technical Specifications.

QUESTION 9: (Date Received: May 10, 2021)

At Polymer Injection Vault & Flowmeter Vault per Note 7 / 2M-4, could you provide details for the Material / Size of the Channel Beams, Connection detail, Tread PL & Supports?

RESPONSE 9:

The sizes, materials and details shall be determined by the hatch manufacturer.

QUESTION 10: (Date Received: May 12, 2021)

Will there be any participation goals set for this project as we are looking for an opportunity to partner with a prime to be a supplier.

RESPONSE 10:

No participation goals have been established or required for this project.

QUESTION 11: (Date Received: May 12, 2021)

The quote for the Hiller Centrifuges and Related Services does not include sales tax. The bid price for Bid Items 15 & 16 are set on the bid form for the Pre-negotiated amount (without tax). Is the contractor expected to pay sales tax on the centrifuges? If so, what bid item do we put the sales tax in?

RESPONSE 11:

Sales tax for the centrifuges and related services shall be paid for by the contractor and can be included in Bid Item 28.

QUESTION 12: (Date Received: May 12, 2021)

Spec 03 31 00 1.04 B 3 states: "Costs related to trial batch and related laboratory testing shall be CONTRACTOR's responsibility as part of the WORK." Spec 03 31 00 1.06 A 4 states: "The cost of trial batch laboratory tests on cement, aggregates, and concrete shall be the OWNER's responsibility." Please clarify whether the Contractor or the Owner is responsible for trial batch and related laboratory testing costs.

RESPONSE 12:

The cost of preparing the trial batch and the cost of laboratory tests shall be borne by the CONTRACTOR.

QUESTION 13: (Date Received: May 12, 2021)

Drawing 5S-1 for the Sludge Storage Tank includes a callout which states: "CJ w/6" waterstop and sealant (Typ 4 at Slabs and Walls)". Specification Section 03 32 00, 3.03 E. 3 states: "Where joints are indicated to be spaced greater than 40 feet apart, additional joints shall be provided to maintain the 25-foot maximum spacing." The wall segments, as indicated on the drawing with 4 joints, result in a length greater than 40'. Please clarify whether the slabs and walls are to be constructed as shown on 5S-1, or if additional CJ's must be added per 03 32 00.

RESPONSE 13:

For the Sludge Storage Tanks, provide only the construction joints shown on 5S-1.

QUESTION 14: (Date Received: May 12, 2021)

The CJP and 5/16" fillet field welds called out on Section B of Drawing 2S-2 appear to point to the same location. Please clarify these field welding locations on Detail 1.

RESPONSE 14:

The CJP weld is to be provided between the bottom and top halves of the flange plate. The 5/16" fillet weld is between the flange plate and the pipe, for both top and bottom halves

QUESTION 15: (Date Received: May 12, 2021)

When scaling Drawing 5E-1, the scale is 1"=10'. Checking that with the dimensions given on 5S-1, the dimensions do not match with the scale provided. Please verify the scale on Drawing 5E-1.

RESPONSE 15:

Change the scale to NTS. Accurate dimensions can be found on the structural and mechanical drawings.

QUESTION 16: (Date Received: May 12, 2021)

Drawing 5S-2 shows the walkway between Sludge Storage Tank 1 and 2 as a span between the two tanks, with Section C on Drawing 5S-5 indicating the walkway being supported at each end of the span by the concrete corbel of each tank. The Limits of Additive Bid Item No. 2 shown on Drawing 5M-2 indicates this walkway is to be provided whether or not Supplemental Bid Item 2 for Sludge Storage Tank No. 2 is accepted. If Supplemental Bid Item 2 is not accepted, please clarify how the west end of the upper level walkway is to be supported.

RESPONSE 16:

If Supplemental Bid Item No. 2 is not accepted, provide support for the west end of the walkway including support slab similar to the supports and slab shown in Section C/5S-3 on Drawing 5S-5.

QUESTION 17: (Date Received: May 13, 2021)

Technical Specifications, 11.02.02 requires the Contractor to provide the Guaranty Bond for the period of three (3) years after the date of Notice of Completion of Contract and Acceptance of Work in the amount of 15% of the Contract Price. Sureties will require return of the Performance Bond upon delivery of the Guaranty Bond as to avoid duplicative surety coverage. As such, please confirm that no surety bonding is expected for years 4 and 5 of the five-year contractor warranties required in 03 32 00 1.06 Joints Concrete and 13 34 21 1.05 F Pre-Engineered Metal Canopies.

RESPONSE 17:

Confirmed.

QUESTION 18: (Date Received: May 13, 2021)

This project involves work around existing structures / facilities where there is a higher than normal risk of damage to such existing property. Contractor prefers to reserve its third-party liability insurance limits for true third-party exposures for which it cannot cap or limit contractually. Further, the party to the contract which has the ability to insure

such exposure is in the better position to accept the risk for the exposure. As such, District's permanent property insurance should be the primary source of recovery. To the extent the loss is caused by Contractor's negligence or fault, Contractor is willing to accept some limited responsibility for physical damage to District's existing facilities / completed work commiserate to a reasonable deductible amount.

Please consider the following language as an addition to Standard Provisions 4.10, F, "Contractor will be held responsible for any damage (i) to the completed Work occurring after substantial completion to the extent arising from the negligence or willful misconduct of Contractor or its subcontractors or (ii) to District's existing structures, materials, or equipment adjacent to or at the Work site to the extent arising from the negligence or willful misconduct of Contractor or its subcontractors and shall repair or replace any such damaged structures, materials, or equipment at no additional cost to District. Where such loss or damage is the result of the joint negligence of Contractor with any other party including District, Contractor's duty to compensate Owner shall be in proportion to the allocable share of such joint negligence of Contractor, unless the cause(s) of such loss or damage cannot be separately allocated, in which case Contractor shall be liable for the whole of such loss or damage, subject to Contractor's right to obtain contribution or indemnity from parties other than District.

Notwithstanding anything herein to the contrary, Contractor's total liability, including responsibility to compensate District and or repair and replace the damaged Work after Substantial Completion or existing structures, materials or equipment shall be limited to \$25,000* per occurrence and in the aggregate, and District shall release Contractor from and shall defend, indemnify and hold Contractor and its subcontractors harmless from liability for any claim, loss or damage exceeding such amount. District will cause its insurers to issue a waiver of subrogation in favor of Contractor and its subcontractors consistent with the rights and obligations of this Section."

RESPONSE 18:

Standard Provisions language will not be changed

QUESTION 19: (Date Received: May 13, 2021)

With respect to pre-existing hazardous materials/hazardous waste or hazardous materials/hazardous waste not brought onto the site by the Contractor, please confirm that the Owner will be considered the "generator" of such hazardous materials/hazardous waste and sign any necessary generator manifests

RESPONSE 19:

Confirmed.

QUESTION 20: (Date Received: May 13, 2021)

Notice to Bidders Item 16 shows retention of 10%. Spec 6.02.04 F states retention of 5%. Please clarify retention amount.

RESPONSE 20:

As stated in Special Provisions Section 21.03, the retention is 10%.

QUESTION 21: (Date Received: May 14, 2021)

Appendix J - a Non-Disclosure Agreement (NDA) form is included in the Contract Documents. Please explain the intended execution process for this document.

RESPONSE 21:

Per Special Provisions Section 14.16, the CONTRACTOR must submit the form within 10 days of receipt of notice of contract award.

QUESTION 22: (Date Received: May 24, 2021)

Will the District make it a requirement that the System Integrator submit their Statement of Qualifications prior to bid date?

RESPONSE 22:

System Integrator statements of qualifications are not required prior to the bid date.

QUESTION 23: (Date Received: May 24, 2021)

Factory Testing - 46 41 30 [2.01.D] requires a full scale factory test in exact field dimensions but lists no additional requirements. We request removal of this requirement, as it will add a lot of additional cost to the equipment that may not have been budgeted for. If this requirement is to remain, please outline testing requirements.

RESPONSE 23:

Full scale factory testing is not required. See Item 19 of this Addendum.

QUESTION 24: (Date Received: May 24, 2021)

Performance Criteria - 46 41 30 [2.02.A.1] refers to an indicated velocity gradient "G" but no velocity gradient is given. Please clarify what G value is needed.

RESPONSE 24:

A "G" value is not required. See Item 18 of this Addendum.

QUESTION 25: (Date Received: May 24, 2021)

Operating Levels - 46 41 30 [2.02.D] mentions bearings shall be sized to stabilize impeller assembly under operating conditions throughout the range. This implies there may be a range of liquid levels required for operation, while the table only includes 1 liquid level. Please clarify.

RESPONSE 25:

The fluid levels will vary as polymer in the tanks is used and the tanks are filled.

QUESTION 26: (Date Received: May 24, 2021)

Impeller Shaft Stress - 46 41 30 [2.02.G] requires a maximum shaft stress of 9,000 psi while 46 41 30 [2.02.J] requires a maximum shaft stress of 11,000 psi. Industry standard for mixers is 9,000 psi. We request removal of the 11,000 psi requirement within [2.02.J].

RESPONSE 26:

The requirement has been changed to 9,000 psi. See Item 20 of this Addendum.

QUESTION 27: (Date Received: May 24, 2021)

Tank Height - 46 41 30 [2.02.B] lists top of slab to bottom of tank distance as 386 ft. Please clarify.

RESPONSE 27:

The value given is the elevation of the top of slab. See Item 19 of this Addendum. The mixer supplier shall coordinate with the tank manufacturer to determine the required shaft length.

QUESTION 28: (Date Received: May 24, 2021)

Motor Speed - 46 41 30 [2.02.B] lists motor speed as 1750 rpm. We request this to be changed to maximum motor speed in order to reduce capital cost by using a double reduction rather than triple reduction gearbox to achieve desired output speeds.

RESPONSE 28:

The motor speed entry has been changed to maximum motor speed. See Item 19 of this Addendum.

QUESTION 29: (Date Received: May 24, 2021)

Gearbox Arrangement - 46 41 30 2.02.D lists a vertical offset shaft arrangement type gearbox, while later stating that gears may be a combination of helical and spiral bevel. In order to ensure ease of maintenance and motor access, we recommend the gear reducer to be specified as a right angle arrangement type with a combination of spiral bevel and helical gearing.

RESPONSE 29:

A vertical offset shaft arrangement is preferred.

QUESTION 30: (Date Received: May 24, 2021)

Field Service Requirement - 46 41 00 [1.04.A] requires field service for each piece of equipment 10HP and larger. Please clarify if this means that the Vertical Shaft Mixers are exempt from this requirement, as the HP for these units is 2HP.

RESPONSE 30:

Confirmed. These Vertical Shaft Mixers are exempt.

QUESTION 31: (Date Received: May 24, 2021)

Warranty - 46 41 00 nor 46 41 30 makes mention of equipment warranty. This could not be found elsewhere within the specifications. Please clarify warranty requirements on the Vertical Entry Mixers.

RESPONSE 31:

Equipment warranty is subject to the requirements stated in Special Provisions Section 11.02.

QUESTION 32: (Date Received: May 25, 2021)

Pipe Systems "CPEN" & "TPEN" are referenced in Sheet C-YP-1, C-YP-2, and C-YP-5. These systems call for double containment pipe and are described as PVCP material in the pipe schedule, but there is no specification for double containment pipe in section 40 05 30 "PVC Pressure Pipe". Specification section 33 95 34 "Polyethylene Pressure Piping" contains a section about double containment pipe. Please add a specification for double containment pipe in 40 05 30 or clarify that the Double contained section in 33 95 34 that describes a PE double contained system is to be used for pipe systems CPEN and TPEN where shown to be double contained in the drawings. Note that existing double contained piping appears to be PVC schedule 80 primary pipe with a "split case" PVC containment pipe system. Is the intent to match the existing double containment system?

RESPONSE 32:

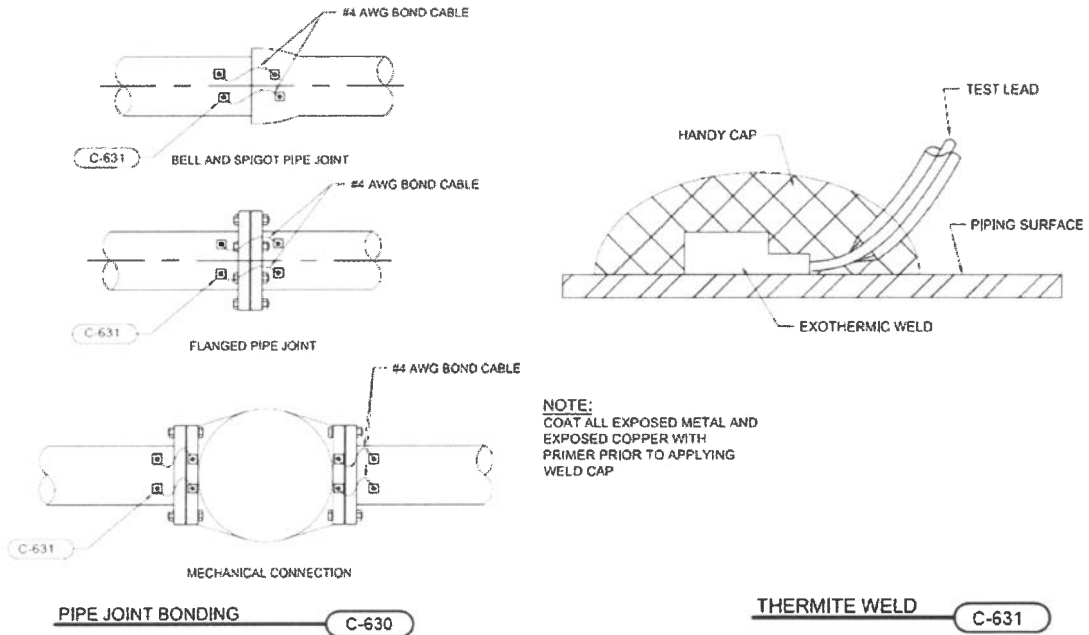
CPEN and TPEN piping outside Centrifuge Buildings A and B shall be double-contained HDPE as specified in Section 33 95 34 – Polyethylene Pressure Piping, 2.02. CPEN and TPEN piping inside Centrifuge Building A shall match the existing PVC double-contained piping in Centrifuge Building A. PVC piping within Centrifuge Building B need not be double-contained. The transition from HDPE to PVC shall be inside the buildings.

QUESTION 33: (Date Received: May 25, 2021)

Specification section 33 92 20 Ductile Iron Piping 2.01 "G" states "Pipe joints shall be prepared for bonding electrical conductivity in accordance with the details indicated. Contractor Shall furnish materials required for joint bonding and electrolysis test station installations." Specification section 40 05 00 Paragraph 2.09 says metallic buried piping shall have bonded joints so that it may be cathodically protected in the future if necessary." Please clarify whether we need cathodic protection as the drawings do not call out any cathodic test stations. If so, please provide a detail and confirm that only jumpers are required at buried ductile joints for bonding.

RESPONSE 33:

Electrically bonded joints shall be provided per Standard Details C-630 and C-631 below. Cathodic protection is not required.



QUESTION 34: (Date Received: May 25, 2021)

Please provide an existing Process Flow Diagram and hydraulic profile of the plant including the solids and treated water streams.

RESPONSE 34:

A Process Flow Diagram and a Hydraulic Profile for the entire plant are not available to be provided to bidders.

QUESTION 35: (Date Received: May 25, 2021)

We are requesting that the bid date be push two weeks – Unfortunately if it cannot push we will not be able to bid this project.

RESPONSE 35:

Valley Water will not be extending the bid opening date.

QUESTION 36: (Date Received: May 27, 2021)

What is the viscosity and specific gravity of the polymer process fluid. The spec that is supposed to have this information does not exist yet. I need this information to determine what type of checks we need on these pumps. (Date Received: May 25, 2021)

RESPONSE 36:

The polymer currently in use is Clarifloc A-6320. The manufacturer indicates that the viscosity is greater than 20 centipoise at 40 degrees C. The polymer batch solutions are planned to be 0.5%. Thus, the viscosity of the fluid pumped by the chemical metering pumps should be less than 20 centipoise. However, no specific information is available for the dilute polymer solution.

QUESTION 37: (Date Received: May 27, 2021)

Is MRC to quote the 5 pump control panel or is Burlingame using someone else? And if that is the case, are we supplying the AB Powerflex 70 VFDs again like we did for Rinconada in 2017, or not?

RESPONSE 37:

The pump control panel can be supplied by MRC, but it is not required.

QUESTION 38: (Date Received: May 27, 2021)

P&ID drawing I-16 asterisk notation indicates that these pumps and accessories are to be supplied as skids. However, the written specs do not indicate any skids. also the piping drawings do not show skids. So is this an error on the P&ID. If so, then we should not be supplying manual valves for this system. Please clarify.

RESPONSE 38:

The note says "supplied as part of a vendor package" not as a skid.

QUESTION 39: (Date Received: May 27, 2021)

We have been reviewing the specs and plans on the subject project for the Fiberglass Reinforced Plastic Tanks (Attached Spec Section 43 41 45) and we would love to have NOV Belco Tanks listed as an approved equal. We have written some comments/questions in the attached FRP spec.

RESPONSE 39:

Fiberglass Reinforced Plastic Tanks material will be reviewed for "approved equal" status with submittals.

QUESTION 40: (Date Received: May 27, 2021)

In regards to specification 43 21 29.05, we have a question. There seems to be some conflicting information about the motors to be provided. 1.07A states 3 phase, 60Hz, 240VAC. The motor spec 2.01 calls for IEEE 841 Motors (which are only available in 460V), and 2.02 calls for DC motors. Can you please confirm which motor is preferred on the chemical metering pumps? THIS QUESTIONS INCLUDED A SCREENSHOT OF PART 2 -- PRODUCTS, 2.01 MOTOTRS CONFORMING TO IEEE Standard 841 - 2009 through A and B.

RESPONSE 40:

The pump motors shall be 240 VAC. See Item 11 of this Addendum.

QUESTION 41: (Date Received: May 27, 2021)

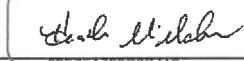
Please confirm that liquidated damages are the sole and exclusive remedy for delay caused by the Contractor.

RESPONSE 41:

Please refer to the contract documents, public contracting code, and other applicable laws, as those documents detail remedies for delay caused by the Contractor..

THIS ADDENDUM NO. 1, WHICH CONTAINS 15 PAGES AND ONE (1) ATTACHMENT, IS A PART OF THE SPECIFICATIONS AND CONTRACT DOCUMENTS FOR THIS PROJECT.

DocuSigned by:



Date: 6/1/2021

Heath McMahon, P.E.
Deputy Operating Officer
Water Utility Capital Division

Enclosure(s):

ATTACHMENT NO. 1 - Specification Section 03 11 00 – Concrete Forming



CAPITAL PROGRAM SERVICES
5750 ALMADEN EXPRESSWAY
SAN JOSE, CA 95118-3686
TELEPHONE (408) 265-2600
FACSIMILE (408) 979-5631
www.valleywater.org
scvwdplanroom@valleywater.org

Santa Clara Valley Water District
Notification of this Addendum is transmitted via email to all current plan holders.
This Addendum is posted on the Valley Water website at
<https://www.valleywater.org/construction>

June 4, 2021

ADDENDUM NO. 2
TO CONTRACT DOCUMENTS FOR THE
RINCONADA WATER TREATMENT PLANT (RWTP)
RESIDUALS REMEDIATION PROJECT
Project No. 93294058 Contract No. C0671

Notice is hereby given to Prospective Bidder that the Contract Documents are modified as hereinafter set forth.

TECHNICAL PROVISIONS

Section 40 91 00 – Process Control and Instrumentation

21. **REPLACE** Article 1.01.D Responsibilities, paragraph d for the following:

- “d. The term "Instrumentation Supplier" shall mean the same as "PCIS Supplier.”
- i. The Instrumentation Supplier shall have Experience on five (5) projects of similar size, scope and complexity to Rinconada Remediation Project. Specifically, the Instrumentation Supplier shall demonstrate such project experience by being able to show an expertise in at least three (2) of the following four (4) criteria within the same project.
1. Same PLC Hardware as the proposed system
 2. More than 5 RTUs/ or PLCs **in a distributed, networked system**
 3. Multiple Control and Monitoring Centers
 4. Upgrade & Replace Equipment and RTU/PLCs.”

22. **REPLACE** Article 1.01.D Responsibilities, paragraph f.13.x. for the following:

- “x. Instrumentation Supplier shall ensure that all PLC-to-PLC communication code is written with I/O scanning on both PLC network 0 and PLC network 1 for all new and existing PLCs in this project. Read var and Write var on both PLC network 0 and PLC network 1 are allowed but shall only be used for **exception-based** PLC-to-PLC communication code only Instrumentation Supplier shall make all modifications to PLC-to-PLC communication code as necessary to ensure the above.”

23. **REPLACE** Article 3.11 Training, paragraph B.1. for the following:

“1. The video recording camera system shall record all video in a minimum of 4K uncompressed. The recording codec shall be in 4:4:4 chroma at 12 bit depth in ProRes Raw ~~HD~~ or **Blackmagic Raw**. The final export of the rendered video format may be as low as 1080p MP4 for most equipment videos; however, all video showing technical content such as video recording on PLC/HMI code shall be exported in H.265 video format. PLC/HMI code can also be screen captured in 4k with voice over.”

24. **REPLACE** Article 3.11 Training, paragraph B.2. for the following:

“2. OWNER has HMI screens which has black text over red background (alarm summary) and video recording system and/or screen capture device must be able to capture and render such images in the same quality as what is displayed on the SCADA view node computer's monitors. Video recordings that are incomplete or that are not readily audible or with unclear ~~clear~~ images shall require the class to be repeated with new video recording.”

Section 40 95 10 – PLC Control Systems Hardware and Software

25. **REPLACE** Article 2.09 PLC Control Logic Simulator, paragraph B for the following:

“B. Provide Simulation Panel hardware consisting of:

1. Painted steel panel backplane with terminal blocks, wiring channels, circuit breakers, and power supplies, and other components all as specified in Section ~~13420~~ **40 95 13 Control Panels**. All terminal points on the panel shall have plastic barriers to protect against accidental exposure to live parts. All backplane components shall include permanent identification nameplates.”

Section 40 95 20 – PLC and SCADA Software

26. **REPLACE** Article 1.02 Contractor Submittals, paragraph B.13. for the following:

“13. ~~PLC defined function block submittal~~ **PLC program development submittals”**

27. **ADD** Article 1.02 Contractor Submittals, paragraph B.13.I in with the following:

“I. **PLC defined function block submittal”**

Section 43 22 76 – Magnetic Drive Centrifugal Pumps

28. **REPLACE** Article 2.04 Schedule of Magnetic Drive Centrifugal Pumps, paragraph A.1. for the following:

“1. Tag Number – ~~P-xxx~~ **RPLMTP01”**

Section 43 62 11 – Shaftless Screw Conveyors

28. **ADD** Article 1.02 Related Work Specified Elsewhere, paragraph A.7. for the following:

“7. Section 43 30 22 Gate Valves”

Section 46 32 60 – Polymer Blending System

29. **REPLACE** Article 2.01. General, paragraph D.4.b for the following:

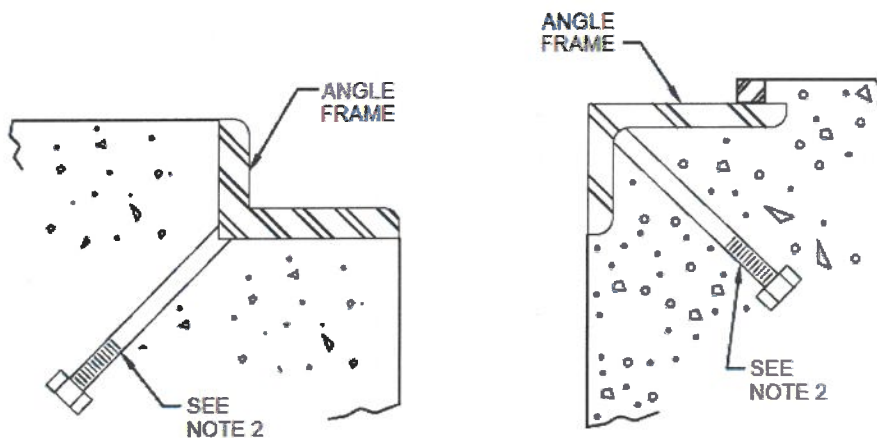
“b. Thermal flow switch **and high pressure switch** shall be provided on pump discharge or integral to the pump stator.”

30. **REPLACE** Article 2.01 D.5 Controls, paragraph a.5).c) in with the following:

“c) Operator shall be able to enter a make up concentration setpoint **at the local control panel. Remote input is not required.**”

DRAWINGS

31. **ADD** Standard Detail S-504 to Sheet GS-9 as shown below.

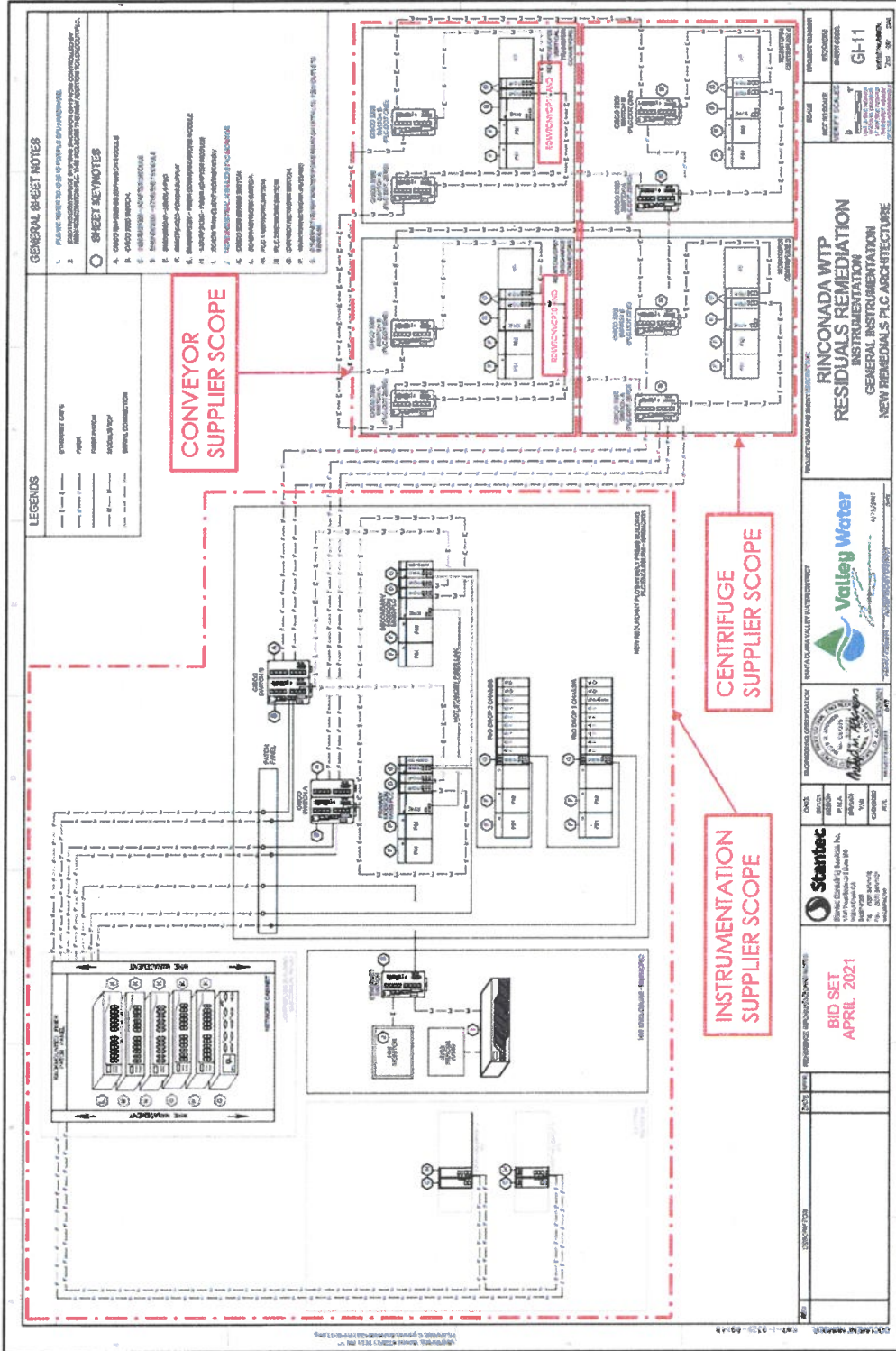


NOTES:

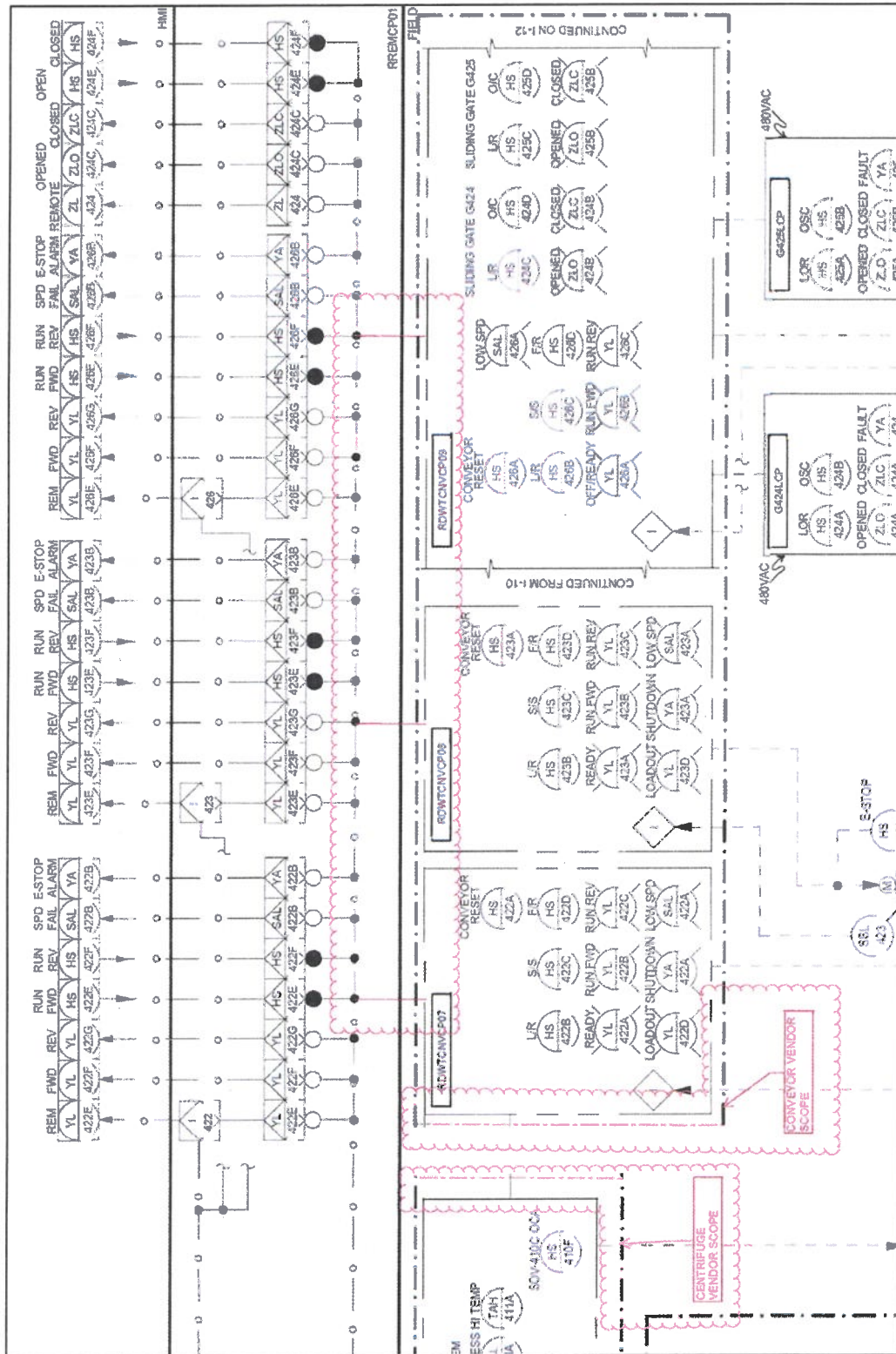
1. SEE STANDARD DETAILS S-501 AND S-502 FOR ANGLE FRAME INFO.
2. NELSON 3/8" DIA x 4" LONG HBA ALUMINUM STUD @ 18" MAX, STUD WELDING ASSOCIATES 3/8" DIA x 4" LONG NON-FLANGED CD ALUMINUM STUD (OR EQUAL) @ 18" MAX WELDED TO ANGLE FRAME WITH 3/8-16 ALUMINUM HEX NUT. TACK WELD NUT TO HEADED STUD.
3. USE MIN OF 2 STUDS PER ANGLE FRAME SECTION.
4. ALUMINUM IN CONTACT WITH CONCRETE SHALL BE COATED PER THE PROTECTIVE COATING SPECIFICATIONS.

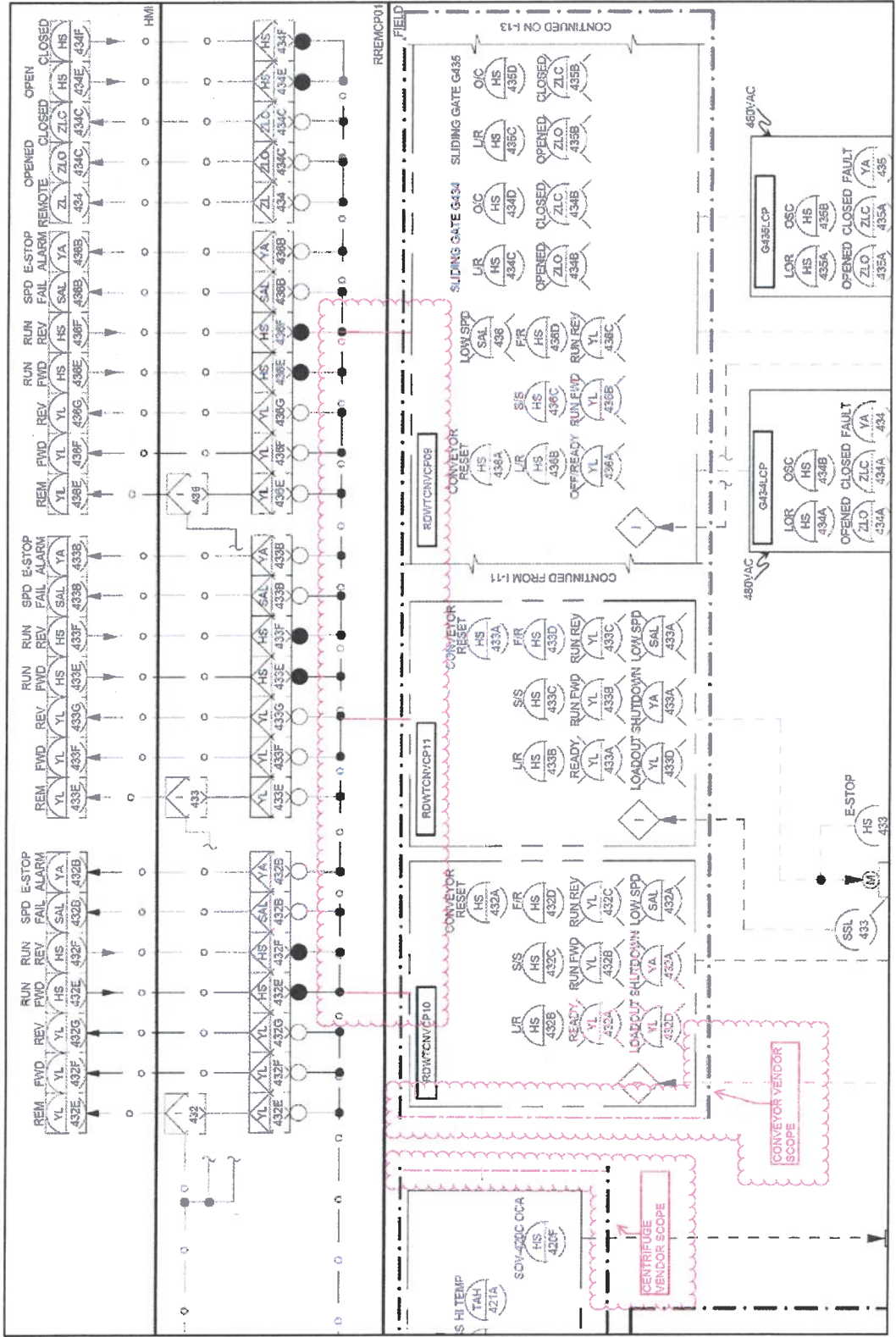
S-504 ALUMINUM WELDED STUD
REV 010119

- 32. **ADD** Leak detection for the CPEN and TPEN yard piping as depicted in ATTACHMENT NO. 1.
- 33. **CHANGE** Network Diagram supplier scope requirements on Sheet GI-11 as follows:



34. **CHANGE** Supplier scope requirements and communication paths on Sheets I-11 and I-12, respectively, as follows:





GENERAL QUESTIONS AND RESPONSES

QUESTION 42: (Date Received: May 27, 2021)

Please confirm that Public Contract Code section 7104 applies to this project. If not, then please confirm that the Geotechnical Reports identified in Special Provision 13.04.01 can be used to establish Type I Differing Site Conditions.

RESPONSE 42:

Public Contract Code Section 7104 applies to this Contract. However, the Contractor may use the Geotechnical Reports identified in Special Provision Section 13.04.01 to establish Type I differing site conditions in the area below the new Sludge Storage Tank(s) and Centrate Wetwell B.

QUESTION 43: (Date Received: May 27, 2021)

Specification 43 52 04 2.01 C contains a table indicating davit crane capacities and the table labeled, "Hoist and Crane Schedule" on drawing GM-6 indicates conflicting capacities. Please confirm the table labeled, "Hoist and Crane Schedule" on drawing GM-6 contains the correct values for davit crane capacity.

RESPONSE 43:

The table in the specifications is correct.

QUESTION 44: (Date Received: May 27, 2021)

The Mixer Schedule on drawing GM-5 contains mixers labeled RSLGMXT1M01, RSLGMXT1M02, RSLGMXT1M03, and RSLGMXT1M04. Please confirm these are the mixers labeled RTSLGMXT1MX01, RTSLGMXT1MX02, RTSLGMXT1MX03, and RTSLGMXT1MX04 on drawings I-4 and 5M-1. If not, please provide schedule including these mixers.

RESPONSE 44:

The equipment numbers on the P&IDs are correct.

QUESTION 45: (Date Received: May 27, 2021)

The pumps labeled SP-510 and SP-520 on drawing I-4 and I-5 respectively do not appear in the mechanical pump and equipment schedules. Please provide a pump schedule including these pumps.

RESPONSE 45:

See Sheet 5M-4 for information about these pumps. They shall be the same model pump as the pump called out in Section A on Sheet 2M-2. See GM-5 SUBMERSIBLE SUMP PUMP SCHEDULE SP-100 & SP-110 for pump schedule.

QUESTION 46: (Date Received: May 27, 2021)

Drawing I-14 and 4M-5 show a mixer labeled RPLMTMX03. Please provide a mixer schedule including this mixer.

RESPONSE 46:

Refer to Specification Section 46 41 30 for information on this mixer.

QUESTION 47: (Date Received: May 27, 2021)

Drawing I-15 and 4M-5 show a transfer pump labeled as RPLMTP01. Please provide a pump schedule which includes this pump and provide a specification for this pump.

RESPONSE 47:

Refer to Specification Section 43 22 76 for information on this pump. Note that the equipment Tag Number P-XXX listed in Section 43 22 76 should be RPLMTP01 as indicated in this Addendum No. 2.

QUESTION 48: (Date Received: May 27, 2021)

Drawing I-15 and 4M-5 show Batch tank mixers labeled as RPLMTMX01 and RPLMTMX02. Please confirm these are the mixers labeled as MXR-12 and MXR-22 in the Mixer schedule. If not please provide a mixer schedule which contains these mixers.

RESPONSE 48:

Confirmed with correction to the labels cited in the question. Please note the Mixer Schedule does not include the MXR-12 and MXR-22. Mixer Schedule MXR-X12 and MXR-X22 correspond to Drawing I-15 and 4M-5 Batch tank mixers labeled RPLMTMX01 and RPLMTMX02.

QUESTION 49: (Date Received: May 27, 2021)

Drawing I-13 shows gate G262, please provide a gate schedule which includes this gate.

RESPONSE 49:

Refer to the last entry on Sheet GM-7.

QUESTION 50: (Date Received: May 27, 2021)

Pump RSLGMXFP01 is shown on drawing 2M-5. Please confirm this is pump RSLGXFRP01 shown on GM-5.

RESPONSE 50:

Confirmed. Note that this pump and Pump RSLGMXFP02 are part of Supplemental Bid Item 1.

QUESTION 51: (Date Received: May 27, 2021)

The valve schedule on drawing GM-7 shows a valve labeled as BV410. This valve does not appear on drawing I-11. Please confirm this valve is a Butterfly valve with the tag BFV410.

RESPONSE 51:

Confirmed.

QUESTION 52: (Date Received: May 27, 2021)

Special Provisions Section 14 Paragraph 14.08 "Salvaged Material & Equipment" states the existing mixing tank to be Salvaged and sent to the Districts Coyote Pump Station. Sheet 2D-2 calls for this tank to be Demolished. Please confirm whether contractor can demolish tank and not salvage the sludge tank to the Districts Coyote Pump Station.

RESPONSE 52:

The existing mixing tank does not need to be salvaged and shall be disposed of by the Contractor.

QUESTION 53: (Date Received: May 31, 2021)

In Section 09 96 00 - 3.20 Coating System Schedule-Concrete, regarding System C-1 under the column labeled "Item" it lists "Floor slab and walls, exposure to chemicals, where indicated." On Drawing GM-1, note 1 it describes all areas with chemical storage to be coated per Section 09 96 00. Can you please clarify which specific areas are to be coated per System C-1.

RESPONSE 53:

Provide coating for the Centrifuge Building B polymer containment area floor and 24-inches vertical walls around floor plus the top of the new containment wall and entire equipment bases (including the tops) for tanks, pumps, polymer blending unit, etc.

QUESTION 54: (Date Received: June 1, 2021)

Looking for FRP polymer tanks nozzle specifications per tank (3) per section 43 41 45 specs refer to drawings 4M-1 thru 5 but still no nozzle sizes.

RESPONSE 54:

The nozzle for the radar level transmitter shall be 6" per Standard Detail I-202. All other nozzles shall be 2" or the size of the pipe connecting to the tank, whichever is greater.

QUESTION 55: (Date Received: June 1, 2021)

Drawing 3E-7 - Note C - Please provide size of conduit.

RESPONSE 55:

Provide a minimum of four 1" conduits between RDWTCNVCP03 and RDWTCNVCP09. No more than 13 #14 wires may be installed in each conduit. The panels are back to back, and the new conduits are to accommodate moving existing indicator lights, switches, controls, etc. from RDWTCNVCP03 to RDWTCNVCP09. The exact total number of wires is unknown. Therefore, verify the total number of wires and conduits required prior to commencing modifications.

QUESTION 56: (Date Received: June 1, 2021)

Drawing 3E-7 - Note C - Please clarify what "X4 for each" means.

RESPONSE 56:

X4 indicates that spares are required in each of the four conduits between panels RDWTCNVCP03 and RDWTCNVCP09.


QUESTION 57: (Date Received: June 2, 2021)

On the Hiller quotation there is an optional line item for spare parts totaling \$281,020, however the pre-negotiated bid items; bid items #15 and #16, do not include this \$281,020. Please confirm we are not to include this additional \$281,020 in our bid. If we are to include it, under what bid item will this be paid?

RESPONSE 57:

Confirmed. The spare parts should not be included in the bids. Spare parts requirements are not included Specification Section 46 71 36 – Centrifuge Dewatering Equipment.

THIS ADDENDUM NO. 2, WHICH CONTAINS 10 PAGES AND ONE (1) ATTACHMENT, IS A PART OF THE SPECIFICATIONS AND CONTRACT DOCUMENTS FOR THIS PROJECT.

DocuSigned by:

09E2E1706C2D410...
Heath McMahon, P.E.
Deputy Operating Officer
Water Utility Capital Division

Date: 6/4/2021

Enclosure(s):

ATTACHMENT NO. 1 - LEAK DETECTION FOR THE CPEN AND TPEN YARD PIPING

▼ Contractor's License Detail for License # 417996

DISCLAIMER: A license status check provides information taken from the CSLB license database. Before relying on this information, you should be aware of the following limitations.

- ▶ CSLB complaint disclosure is restricted by law (B&P 7124.6) If this entity is subject to public complaint disclosure click on link that will appear below for more information. [Click here for a definition of disclosable actions.](#)
- ▶ Only construction related civil judgments reported to CSLB are disclosed (B&P 7071.17).
- ▶ Arbitrations are not listed unless the contractor fails to comply with the terms.
- ▶ Due to workload, there may be relevant information that has not yet been entered into the board's license database.

Data current as of 3/8/2021 11:25:08 AM

Business Information

RANGER PIPELINES INCORPORATED
P O BOX 24109
SAN FRANCISCO, CA 94124
Business Phone Number:(415) 822-3700

Entity Corporation
Issue Date 02/18/1982
Expire Date 02/28/2022

License Status

This license is current and active.

All information below should be reviewed.

Licenses

- ▶ A - GENERAL ENGINEERING CONTRACTOR
- ▶ B - GENERAL BUILDING CONTRACTOR
- ▶ C-4 - BOILER, HOT WATER HEATING AND STEAM FITTING
- ▶ C31 - CONSTRUCTION ZONE TRAFFIC CONTROL

Certifications

- ▶ HAZ - HAZARDOUS SUBSTANCES REMOVAL

Bonding Information

Contractor's Bond

This license filed a Contractor's Bond with SAFECO INSURANCE COMPANY OF AMERICA.

Bond Number: 6322483
Bond Amount: \$15,000
Effective Date: 01/01/2016
[Contractor's Bond History](#)

Bond of Qualifying Individual

The qualifying individual THOMAS JOSEPH HUNT certified that he/she owns 10 percent or more of the voting stock/membership interest of this company; therefore, the Bond of Qualifying Individual is not required.

Effective Date: 02/24/2021
[BQI's Bond History](#)

Workers' Compensation

This license has workers compensation insurance with the TRAVELERS CASUALTY INSURANCE COMPANY OF AMERICA

Policy Number: UB2N6998712026G
Effective Date: 04/01/2020
Expire Date: 04/01/2021
[Workers' Compensation History](#)

Other



State of California Department of Industrial Relations

Contractor Information

Legal Entity Name: RANGER PIPELINES, INCORPORATED
 Legal Entity Type: Corporation
 Status: Active
 Registration Number: 1000004004
 Registration effective date: 07-01-19
 Registration expiration date: 06-30-22
 Mailing address: PO BOX 74709 SAN FRANCISCO 94124 CA United States of America
 Physical Address: 1790 YOSEMITE AVE SAN FRANCISCO 94124 CA United States of America
 Email Address: contact@rangerpipelines.com
 Trade Name / DBA:
 Licenses / Numbers (L):
 - 381611965
 - 551841790*

Registration History

Effective Date	Expiration Date
01-09-18	06-30-19
05-08-17	06-30-18
06-07-16	06-30-17
06-30-15	06-30-16
12-09-14	06-30-15
07-01-19	06-30-22

Legal Entity Information

Corporation Entity Number: 1100780
 Federal Employment Identification Number: 962791495
 President Name: THOMAS HUNT
 Vice President Name: PETER CUDDIHY
 Treasurer Name: MARY SHEA-HUNT
 Secretary Name: MARY SHEA-HUNT
 CEO Name: THOMAS HUNT
 Agency For Service:
 Agent of Service Name: RANGER PIPELINES, INCORPORATED
 Agent of Service Mailing Address: 1790 YOSEMITE AVE SAN FRANCISCO 94124 CA United States of America

Worker's Compensation

Do you lease employees through Professional Employer Organization (PEO)?
 Please provide your current worker's compensation insurance information below

PEO Information Name	PEO	Phone	Email
	No		

Insured by Carrier:
 Policy Holder Name: RANGER PIPELINES, INCORPORATED
 Insurance Carrier: Travelers Property Casualty Co of America
 Policy Number: UB2NE9887119
 Inception date: 06-01-20
 Expiration Date: 06-01-21