Notification of this Addendum is transmitted via email to all current plan holders.
This Addendum is posted on the District website at
https://www.valleywater.org/Construction

June 14, 2019

ADDENDUM NO. 3
TO CONTRACT DOCUMENTS FOR THE
CROSS VALLEY AND CALERO PIPELINES INSPECTION AND REHABILITATION PROJECT
Project No. 95084002  Contract No. C0650

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

BID DOCUMENTS

BID FORM NO.1

REPLACE the Description of Item for Bid Item No. 4 with:
“Painting and Coating”

REPLACE the Description of Item for Bid Item No. 12 with:
“Work as Specified for CAP @ STA 147+58 – CALERO MODULATING VAULT (CMV)”

REPLACE the Description of Item for Bid Item No. 19 with:
“Work as Specified for CVP 4 @ STA 138+86.84 – Blind Flange”

REPLACE the Description of Item for Bid Item No. 20 with:
“Work as Specified for CVP 1 @ STA 100+88.50 –14” CARV TYPE I – 125# DRILLING”

REPLACE the Description of Item for Bid Item No. 49 with:
“Work as Specified for CVP 2 @ STA 284+66.43 –14” CARV TYPE I – 250# DRILLING

REPLACE the Description of Item for Bid Item No. 63 with:
“Work as Specified for CVP 3 @ STA 382+32.10 – BLIND FLANGE (AFO DUAL 4” STACK)”

REPLACE the Description of Item for Bid Item No. 64 with:
“Work as Specified for CVP 3 @ STA 393+94.01 – 14” CARV TYPE I – 250# DRILLING”
REPLACE the Approximate Quantity/Unit for Bid Item No. 120 with:

“500 Square Feet”

SPECIFICATIONS AND CONTRACT DOCUMENTS

SIGNATURE PAGE

REPLACE the signature page with Attachment No. 1.

SPECIAL PROVISIONS

SECTION 12 – WORK AND CONTRACT TIMES

REPLACE Article 12.03.A.12 with:

“12. The Contractor shall complete Milestone 12 – Project Completion and Close-out Work before the expiration of 20 Days from the first day that the Contractor completes Milestone 11. See Article 12.03.E. for the Milestone 12 scope of work. See Article 16.01.01. for shutdown constraints.”

REPLACE Article 12.03.E.6.a.(1)(b) with:

“(b) The Contractor shall refer to R-12.1 to R-12.7 and Appendix J for as-buils and photos of existing Cochrane Line Valve vault which will be demolished.”

REPLACE Article 12.03.E.7.a.(1) with:

“(1) The Contractor shall temporarily remove the vault roof to replace existing appurtenances in the line valve vaults as specified in the Drawings. Roofs shall be temporarily reinstalled at the end of each day to provide coverage of the vault and site safety and security.”

REPLACE Article 12.03.E.7.a.(3) with:

“(3) The District will perform the final connection for the controls and SCADA connections. Refer to Article 16.01.02.C.”

REPLACE Article 12.03.E.7.a.(4) with:

“(4) The Contractor shall coordinate with the Engineer on scheduling District Control System Engineering staff after the valves, and actuators are installed to program the motor operated valves and RTU control panels. Control System Engineering staff require at least one week to connect and program the actuators and the Contractor shall schedule accordingly to allot adequate time for District staff to complete the connection of the valves. Contractor shall provide dedicated electrical, control, programming support during the entire duration that District staff is working to make final connections for startup and troubleshooting efforts. The valves shall be commissioned and tested before the pipeline is brought back online.”

ADD Article 12.03.E.7.a.(6) as follows:
“(6) All exposed pipe sections that require pipe supports shall remain supported at all times. The Contractor shall install temporary pipe supports as needed to perform valve and appurtenance replacement work. Permanent pipe supports equivalent to pre-existing supports shall be reinstalled after line valve and appurtenance work is completed.”

REPLACE Article 12.03.E.8.a.(2) with:

“(2) The Contractor shall temporarily remove the vault roof to replace existing appurtenances in the line valve vaults as specified in the Drawings. Roofs shall be temporarily reinstalled at the end of each day to provide coverage of the vault and site safety and security.”

REPLACE Article 12.03.E.8.a.(3) with:

“(3) The Contractor shall coordinate with the Engineer on scheduling District Control System Engineering staff after the valves, and actuators are installed to program the motor operated valves and RTU control panels. Control System Engineering staff require at least one week to connect and program the actuators and the Contractor shall schedule accordingly to allot adequate time for District staff to complete the connection of the valves. Contractor shall provide dedicated electrical, control, programming support during the entire duration that District staff is working to make final connections for startup and troubleshooting efforts. The valves shall be commissioned and tested before the pipeline is brought back online.”

ADD Article 12.03.E.8.a.(4) as follows:

“(4) The District will perform the final connection for the controls and SCADA connections. Refer to Article 16.01.02.C.”

ADD Article 12.03.E.8.a.(5) as follows:

“(5) All exposed pipe sections that require pipe supports shall remain supported at all times. The Contractor shall install temporary pipe supports as needed to perform valve and appurtenance replacement work. Permanent pipe supports equivalent to pre-existing supports shall be reinstalled after line valve and appurtenance work is completed.”

DELETE Article 12.03.E.11.a.(3).

REPLACE Article 12.03.E.11.a.(8) with:

“(8) Prepare and paint all existing and new in-vault and exposed exterior pipeline, appurtenance and associated component surfaces at all work sites.”

REPLACE the Estimated Start Date for Milestone 8 on Table 12.03-1 Estimated Schedule of Work, with:

“Wednesday, December 4, 2019”

SECTION 16 – WORK CONSTRAINTS AND SITE RESTRICTIONS

REPLACE Article 16.01.02.C with:

“C. The electrical, telemetry, communication, SCADA and process piping work
components, demolition and installation, for the valves and flow meters in the turnout facilities shall be completed by the Contractor in coordination with and under the supervision of District staff. The Contractor shall coordinate and schedule vault access to allow for the completion of this work. The Contractor shall deenergize and disconnect the existing equipment, install new cables and conduits to the valves and remote terminal units as shown on the Drawings, and connect the new equipment to power. District staff will inspect the installation done by the Contractor.”

SECTION 19 – ENVIRONMENTAL

REPLACE Article 19.05.02.A with:

“A. The Contractor shall be aware that the appurtenances as a part of the Project were constructed in the 1980s and shall assume that the project was painted/coated using lead containing materials. The Contractor shall test for the presence of lead and shall conduct all work in accordance with applicable regulatory requirements.”

ADD Article 19.05.02.C. as follows:

“C. The Contractor shall prepare a site-specific safety and health plan for employees involved in Hazardous Waste operations. The program shall be designed to identify, evaluate, and control safety and health hazards and provide for emergency response for Hazardous Waste operations in compliance with Title 8, Section 5192”

ADD Article 19.05.02.D. as follows:

“D. Payment: Full compensation for Work involved in complying with all requirements per this Article and as directed by the Engineer shall be considered incidental and included in the Contract Price(s) paid for the various items of Work involved; no additional time shall be allowed or payment made.”

SECTION 21 – PAYMENT PROCEDURES

REPLACE Article 21.01.02.D. with:

“D. Bid Item No. 4 – Painting and Coating”

REPLACE Article 21.01.02.F.1 Bid Item No. 6 with:

“1. Scope of Work: This bid item shall include doing all work, providing all equipment, and furnishing all materials required to support the District’s third-party consultants while conducting an internal visual inspection, electromagnetic inspection, and general internal condition assessment as specified in these Specifications and as shown on the Drawings.”

REPLACE Article 21.01.02.G.2 with:

“2. Measurement and Payment: All bidders shall bid the amount shown on the bid form for Completion of Encroachment Permits with Cities and County. This amount is estimated only, and the Bid Item will be used to reimburse the Contractor. Compensation shall be limited to actual fees paid by the Contractor to the Cities and County, without markup.”

REPLACE the Description of Work for Article 21.01.02.I.6. (Bid Item No.12) with:
"6. Work as Specified for CAP @ STA 147+58 – CALERO MODULATING VAULT (CMV)"

REPLACE the Description of Work for Article 21.01.02.I.13. (Bid Item No.19) with:

"13. Work as Specified for CVP 4 @ STA 138+86.84 – BLIND FLANGE"

REPLACE the Description of Work for Article 21.01.02.I.14. (Bid Item No. 20) with:

"14. Work as Specified for CVP 1 @ STA 100+88.50 –14" CARV TYPE I – 125# DRILLING"

REPLACE the Description of Work for Article 21.01.02.I.43. (Bid Item No. 49) with:

"43. Work as Specified for CVP 2 @ STA 284+66.43 – 14" CARV TYPE I – 250# DRILLING"

REPLACE the Description of Work for Article 21.01.02.I.57. (Bid Item No. 63) with:

"57. Work as Specified for CVP 3 @ STA 382+32.10 – BLIND FLANGE (AFO DUAL 4" STACK)"

REPLACE the Description of Work for Article 21.01.02.I.58. (Bid Item No. 64) with:

"58. Work as Specified for CVP 3 @ STA 393+94.01 – 14" CARV TYPE I – 250# DRILLING"

REPLACE Article 21.01.02.N.3 Bid Item No.120 with:

"Number of Square Feet: 500"

TECHNICAL PROVISIONS

SECTION 23 – PREPARATORY WORK

ADD Article 23.04.1.01.I. as follows:

"I. The Contractor is advised that the appurtenance vaults along the pipeline system may be submerged with water due to groundwater intrusion. The Contractor shall prepare and provide equipment to dewater the vault prior to work in case vaults are submerged with water."

SECTION 30 – CONCRETE

ADD Article 30.01.3.01.Y. as follows:

"Y. Epoxy-coated reinforcing steel shall be as indicated on the Drawings and shall conform to the provisions in Section 52-2.02, “Epoxy-coated Reinforcement” of the State Specifications. The Contractor shall verify that the epoxy coating has not been damaged prior to placement. If damaged, the Contractor shall repair the epoxy coating prior to placement at Contractor’s expense."

SECTION 32 – PIPING
REPLACE Article 32.22.01.B with:

“B. The ventilation fans shall be appropriately sized for the diameter and length of pipeline to provide and maintain air velocities of 1 to 3 feet per second measured at the centerline of the pipe. If air velocities drop below 1 foot per second, then the Contractor shall take immediate corrective action to increase air velocities.”

SECTION 36 – SPECIAL CONSTRUCTION AND STRUCTURES

REPLACE Article 36.11.3.03.B with:

“B. All exposed interior and exterior wood surfaces (except plywood decking to receive built-up roofing) shall have paint applied in accordance with Section 57 of the State Specifications.”

SECTION 40 – COATING, LINING, AND PAINTING

DELETE Article 40.02.1.01.F.

GENERAL QUESTIONS & RESPONSE

QUESTION 1: Spec Section "2.02 State Specifications and Plans" states that we are to use the "latest published edition of the State of California Department of Transportation Standard Specifications and Standard Plans." Please confirm this is referring to the 2018 version of Caltrans Standard Plans and the 2018 version of Caltrans Standard Specifications.


QUESTION 2: Spec Section "4.07 Permits and Licenses" states that the Contractor shall procure all permits and licenses. Please provide a detailed list of the permits and licenses that the contractor is responsible for obtaining.

RESPONSE 2: District coordinated with the cities and county to obtain conditional encroachment permits. The contractor is responsible to complete the encroachment permits, comply with all conditions required by the permits and agreements, and obtain any licenses that is required by the cities or counties to conduct work within their jurisdiction.

QUESTION 3: Spec Section "10.17 Proper Pruning Techniques" states that "An ISA certified Arborist or Tree Worker is to be present at all times during pruning." Does the owner provide the certified Arborist?

RESPONSE 3: No, District will not be providing a certified arborist.

QUESTION 4: Spec Section "32.22 Support for Internal Pipeline Work" states "The Contractor shall install Carbon Fiber Reinforced Polymer (CFRP) in structurally deficient pipeline sections as identified during the internal pipeline inspection." Bid Item 119 is for 6 Sections. What are the dimensions of a "Section"?

RESPONSE 4: Refer to R-05 through R-10 in the Drawings for CFRP design. A section is the repair length of the CFRP which is 24 feet.
QUESTION 5: Spec Section "32.22 Support for Internal Pipeline Work 2.01 B" states "The ventilation fans shall be rated NFPA Class 1, Division 1, Explosion Proof and shall be appropriately sized for the diameter and length of pipeline in which each work activity is to be perform." Please confirm that all the ventilation fans need to meet these requirements.

RESPONSE 5: Refer to the revised language made as part of this addendum.

QUESTION 6: Please refer to work to be performed at station 112+74 as noted in the drawings on sheet 6 of 163. (Bid Item 15) - The proposed work lists "Reestablish Planting & Landscaping in Kind". No details or design is given. Please provide info so we can accurately price this work.

RESPONSE 6: Refer to the City of Morgan Hill’s Design Standards and Standard Details for Construction for restoring the site at STA 112+74 to preexisting conditions.

QUESTION 7: Bid Item 12 doesn't line up with a station of work to be performed. Please confirm Bid Item 12 is CAP 34.

RESPONSE 7: Bid item 12 is the Calero Line Valve (Calero Modulating Vault) at STA 147+58. Revisions to the station on the Bid Item has been made to match.

QUESTION 8: Bid Item 20 doesn't line up with a station of work to be performed. Please confirm Bid Item 20 is CAP 8.

RESPONSE 8: Bid item 20 is the 14-inch CARV Type I at STA 100+88.50. Revisions to the station on the Bid Item has been made to match.

QUESTION 9: Bid Item 49 doesn't line up with a station of work to be performed. Please confirm Bid Item 49 is CAP 38.

RESPONSE 9: Bid item 49 is the 14-inch CARV Type I at STA 284+66.43 (vault number CVP 38). Revisions to the station on the Bid Item has been made to match.

QUESTION 10: Are the contractors expected to re-use the existing roofs for Bid Items 9, 10, 11 & 12?

RESPONSE 10: The roofs on Peet Road Vault (bid item 9) and the San Bruno Vault (bid item 10) will be reinstalled. For Bailey Ave Vault (bid item 10) and Calero Modulating Vault (bid item 11), the Contractor shall install a new mechanically attached TPO roofing system. Refer to Article 36.13 which was published with Addendum 1.

QUESTION 11: For the Owner Furnished Materials, will the valves come with nuts, bolts & gaskets?

RESPONSE 11: No. Only the valves are provided as District Furnished Materials. The Contractor shall furnish and procure hardware and gaskets.

QUESTION 12: Bid items 39, 62, 85, 88, 90, 93, 98, 102, 104 & 113 in the proposed work (Sheets 6 to 16 of 163) say to reuse or don’t mention installing new vaults at each location. The drawings show installing new vaults. Are we installing new vaults at each of these locations?
RESPONSE 12: New vaults will not be installed for Bid items CVP STA 224+15 (Bid Item 39), CVP STA 278+70 (Bid Item 47), CVP STA 381+44 (Bid Item 62), CAP STA 17+25 (Bid item 85), CAP STA 31+49 (Bid Item 88), CAP STA 38+70 (Bid Item 90), CAP STA 45+80 (Bid Item 93), CAP STA 64+95 (Bid Item 98), CAP STA 87+48 (Bid Item 102), CAP STA 108+87 (Bid Item 104), & CAP STA 145+05 (Bid Item 113). Existing vaults at these locations will be reused. Only the vault cover for CAP STA 145+05 (Bid item 113) will be replaced. Changes to the drawings will be made in the next addendum accordingly.

QUESTION 13: Sheet 5S-05 Section A, Note 1 states “The contractor shall field coat all steel reinforcing within 12 inches radius of steel plate collar with 3 mills of epoxy paint” Is this coating required at all pipe penetrations or only the one called out? Is there a specification to reference for the field epoxy coating requirements?

RESPONSE 13: Refer to Article 30.01.3.01.Y. that has been added as part of this addendum.

QUESTION 14: In reference to the slab to wall joint Detail 3 on 5S-03 shows a keyway that is also required to have waterstop. Considering rebar clearance, the depressed keyway, the waterstop installation will not be possible as there is not enough room between the top of concrete and rebar. In addition, this detail conflicts with the detail from 5S-05 section A that shows a 6” starter wall in the thickened section. Please clarify details.

RESPONSE 14: By considering rebar clearance and keyway, the water stop on Detail 3 of Sheet 5S-03 will be revised to 6” above wall/floor joint. The concrete floor on Sheet 5S-05, Section A is adversely missing the continuous wall footing. The revisions will be incorporated in the next addendum accordingly.

QUESTION 15: Spec section 12.03 A 6 states “Milestone 6 - Shutdown Required Work at Cochrane Line Valve Vault before expiration of 92 Days from the first day that the raw water transmission system is taken out of service.” Table 12.03-1 in the specs gives estimated dates for the work. The 92 days includes 14 days to dewater the pipe. Milestone 6 work on Table 12.03-1 is estimated to start on 12/4/19 and end on 2/19/20 which is 78 days. Spec 12.03 E 6 lists the work to be completed to meet Milestone 6. Completing the concrete vault, as well as installing the misc metals in the vault, are not listed in order to meet Milestone 6. Please confirm the concrete vault and misc metal work does not need to be complete to meet Milestone 6. If not, the schedule will not be able to be met.

RESPONSE 15: The concrete vault and miscellaneous metal work do not need to be complete to meet Milestone 6.

QUESTION 16: Does the owner want to replace the complete Corrosion Control System at each location? Junction Box, Conduit, Wiring? Including any protection outside of the vault?

RESPONSE 16: Yes. The Contractor will replace the corrosion control test station at each appurtenance vault except at the line valve vaults.

QUESTION 17: Are the existing roofs made out of pressure treated lumber?

RESPONSE 17: Yes. The existing roofs are made of pressure treated lumber.
QUESTION 18: Detail 2 on Sheet 43 of 163 states to “Replace Vault hatch with flush drop-in style double-leaf hatch.” Does this detail apply to every existing vault (94 EA) on this project?

RESPONSE 18: Yes.

QUESTION 19: Can you extend the work hours and work days at the Cochrane Line Vault? There is an extensive amount of work to be performed at this location.

RESPONSE 19: The Contractor may request an alternative work schedule with the Engineer. Refer to Article 18.02.

QUESTION 20: Please confirm that the owner will perform the final wiring connection of the electrical wires to all the new valves.

RESPONSE 20: The contractor will be responsible for deenergizing and disconnecting the existing equipment, installing new cables and conduits to the valves and remote terminal units, and connecting the new equipment to power. District staff will inspect the installation done by the contractor and make the final connections for controls to the panels and operators. The manufacturers will conduct independent inspections to verify proper installation of the new equipment. Revisions to the contract documents have made to reflect this change.

QUESTION 21: Is the contractor responsible for applying painting & coating to all (including existing) pipe, fittings & valves in the vaults, or just the new installed materials?

RESPONSE 21: Yes, the contractor is responsible for applying painting & coating to all piping, fittings, and valves in the vaults. Refer to revised Article 12.03.E.11.a.(8).

QUESTION 22: Can the owner provide a Corrosion Control Wiring detail for the Calero, Cochrane, Bailey, San Bruno and Peet vault?

RESPONSE 22: There is no work on the corrosion control systems at the line valve vaults.

QUESTION 23: Section 12.03 A 12 states Milestone 12 shall complete “before the expiration of 20 Days from the first day that the Contractor completes Milestone 9.” Please confirm this is a typo and that it should be 20 days from the completion of Milestone 11.

RESPONSE 23: Yes, this is a typo. See the revised language per this addendum.

QUESTION 24: Is the owner providing all the AFO nozzles W/4" Class 150?

RESPONSE 24: No. Refer to Article 14.07 – District-Furnished Materials and Equipment and the District-Furnished Material column on Pipeline Data and Maintenance Tables on G-06 through G-16.

QUESTION 25: Is the owner providing slip on flanges?

RESPONSE 25: No. Refer to Article 14.07 – District-Furnished Materials and Equipment and the District-Furnished Material column on Pipeline Data and Maintenance Tables on G-06 through G-16.
QUESTION 26: Is the owner purchasing new flanges with the correct adapter flange locations for the AFO nozzles or does the contractor need to field fit each AFO nozzle?

RESPONSE 26: No. Refer to Article 14.07 – District-Furnished Materials and Equipment and the District-Furnished Material column on Pipeline Data and Maintenance Tables on G-06 through G-16.

QUESTION 27: Section D on Sheet 48 of 163 shows an example valve extension and wall brackets. The owner is providing the valve, but are they also providing all the valve extensions and wall brackets for the project?

RESPONSE 27: No. The contractor will furnish the wall brackets and valve extensions. Refer to Article 14.07 – District-Furnished Materials and Equipment and the District-Furnished Material column on Pipeline Data and Maintenance Tables on G-06 through G-16.

QUESTION 28: Bid Item #4 is "Painting and Coating (Including Lead Abatement)" Is the contractor to assume that every location has lead paint and to carry the cost to abate the lead at every location? Or does the contractor carry the cost to test every location, and the owner will cover the costs to abate the lead?

RESPONSE 28: Yes, it is assumed that the project was painted/coated using lead containing materials. The language has been revised for clarification.

QUESTION 29: The as-builds for the Cochrane Line Vault show a run of pipe that extends to the North of the existing vault and has a blind flange on the end. Does all the existing pipe at the Cochrane Line Vault need to be removed even if it doesn't conflict with the new pipe & vault? Can this pipe be abandoned in place?

RESPONSE 29: Yes. The contractor will remove all existing piping at the Cochrane Line Valve Vault and shall bid accordingly. No, the pipe cannot be abandoned.

QUESTION 30: If the additional laydown area at the Cochrane Line Vault is not acquired, please confirm that Bid Item 117 for the Cochrane Line Vault will be removed from the Contract.

RESPONSE 30: Yes. The Cochrane Line Valve Vault work is dependent on the adjacent laydown area, and if District does not acquire a lease with the county, bid item 117 will be removed from the contract.

QUESTION 31: Sheet 132 of 163 has a note to "Remove Valve & Replace with Spool Piece". This work does not appear on any other drawings. Is this work to be performed as part of this project?

RESPONSE 31: This is an error. The callout will be removed.

QUESTION 32: Per section 36.11-5 (3.03 B) What is your intention as far as the coating of wood? Are you only looking at the new wood roofs? How about all the existing wood roofs, some are not coated, some are partially coated and one is completed coated? Can you get more specific on what paint system you are looking at for this work if it is to be done? What were the existing wood roofs coated with?

RESPONSE 32: All exposed wood surfaces shall be coated in accordance with Section 57 of the State Specifications. The language has been revised to reflect this.
QUESTION 33: Per Section 40.02-1 (1.01 F.) Can you clarify what concrete vaults if any get coated with the 2 coats of latex paint?

RESPONSE 33: The interior of the precast concrete vaults does not need to be coated. The article has been deleted as part of this addendum.

THIS ADDENDUM NO. 3, WHICH CONTAINS 11 PAGES AND 1 ATTACHMENT, IS ATTACHED TO AND IS A PART OF THE SPECIFICATIONS AND CONTRACT DOCUMENTS FOR THIS PROJECT.

Karen Uyeda, P.E. acting for Katherine Oven, P.E. Deputy Operating Officer Water Utility Capital Division

Attachments:
ATTACHMENT NO. 1 – Revised Signature Page

Date: 6/14/2019
ATTACHMENT NO.1
Revised Signature Page
SPECIFICATIONS AND CONTRACT DOCUMENTS

FOR THE

CONSTRUCTION OF

CROSS VALLEY AND CALERO PIPELINES INSPECTION AND REHABILITATION PROJECT

PROJECT NO. 95084002

CONTRACT NO. C0650

SANTA CLARA VALLEY WATER DISTRICT

Prepared by:

Calvin Nguyen, P.E.
Associate Engineer—Civil
Water Utility Capital Division

Date 5/13/2019

Approved by:

Joel Jenkins, P.E.
Acting Capital Engineering Unit Manager
Water Utility Capital Division

Date 5/13/2019

Accepted by:

Katherine Oven, P.E.
Deputy Operating Officer
Water Utility Capital Division

Date 5/13/2019

Kurt A. Arends, P.E.
Deputy Operating Officer
Raw Water Operations & Maintenance Division

Date 5/13/2019

MAY 2019

DISTRICT BOARD OF DIRECTORS

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Barbara F. Keegan  District 2  Tony Estremera  District 6
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Linda J. LeZotte, Chair  District 4
SPECIFICATIONS AND CONTRACT DOCUMENTS

FOR THE

CONSTRUCTION OF

CROSS VALLEY AND CALERO PIPELINES INSPECTION AND REHABILITATION PROJECT

PROJECT NO. 95084002

CONTRACT NO. C0650

SANTA CLARA VALLEY WATER DISTRICT

Section 37 – Electrical Prepared By:

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Associate Engineer—Electrical
Water Utility Capital Division

5/13/2019  Date

Section 38 – Instrumentation and Control Prepared By:

Ben Chen, P.E.
Associate Engineer—Control Systems
Water Utility Capital Division

5/13/2019  Date