Santa Clara Valley Water District

CAPITAL PROGRAM SERVICES
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www.valleywater.org/Programs/Construction.aspx.

October 6, 2017

ADDENDUM NO. 1
TO CONTRACT DOCUMENTS FOR THE
Installation of Cathodic Protection Rectifiers and Deep-Well Anodes on the Santa Clara Conduit Project
Project No. 95084002 Contract No. C0632

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

SPECIFICATIONS AND CONTRACT DOCUMENTS

SPECIAL PROVISIONS

Article 11.01. Summary of Work

REPLACE paragraph A. with:

"A. This project is to implement cathodic protection on the Santa Clara Conduit section of the San Felipe pipeline. The work will consist of installing three (3) cathodic protection impressed current facilities at three separate sites. Construction at each site will require installing a cathodic protection rectifier and deep-well anode with associated connections to power and pipeline. The work to be completed under this Contract shall consist of furnishing all tools, equipment materials, supplies, manufactured articles and furnishing all labor, transportation and services, including fuel, power, water, and essential communications, and performing all work, or other operations required to construct the four functioning cathodic protection sites. The work includes, but is not limited to the following:"

REPLACE paragraph B.3.d. with:

"d. Trench between the deep-well anode, rectifier cabinet, and the underground vault at SV2."

CONSTRUCTION MAP AND PLAN

MAP AND CONSTRUCTION PLANS

CP-03 FEDERAL PIPELINES-SANTA CLARA CONDUIT GILROY, CA – SSC VALULT #9 SITE PLAN

ADD text "From PG&E meter pedestal box, install approximately 110' of 1" Schedule 80 PVC conduit with power wires to rectifier. Install Black, White and Green #12 THHN power wires in conduit. Install at 36" minimum depth."

CP-05 SV-1 SITE PLAN – Note #1

REPLACE "Plumbers putty" with "sealant"

CLARIFICATION to Note #1 Plumbers putty should not be used but, instead a high quality sealant sufficient to ensure an all weather water proof seal.

CP-08 SECTIONS AND DETAILS I – Detail #5

ADD text "Rectifier cabinet dimensions are 72" X 36" X 24". Galvanized conduit in slab and PC for ground is ¾". Galvanized steel conduit for anode cables is 2". AC disconnect can be installed inside cabinet."

CP-10 REACH 1 PIPELINE-GILROY, CA – SECTIONS AND DETAILS III – Detail #3

ADD text "Pad size shown is approximate and should accommodate cabinet base with a minimum of 3" greater than the rectifier cabinet base on all sides."

THIS ADDENDUM NO. 1, WHICH CONTAINS 2 PAGES, IS ATTACHED TO AND IS A PART OF THE SPECIFICATIONS AND CONTRACT DOCUMENTS FOR THIS PROJECT.

Katherine Oven

Date: 10/06/2017

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

Santa Clara Valley Water District

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November 1, 2017

ADDENDUM NO. 2
TO CONTRACT DOCUMENTS FOR THE
Installation of Cathodic Protection Rectifiers and Deep-Well Anodes on the Santa Clara Conduit Project
Project No. 95084002 Contract No. C0632

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

GENERAL QUESTIONS & RESPONSE

Question 1.	**Detail 6 – Drawing CP-08** does not call out requested grounding wire conduit size or type of traffic box to house ground rod. Can you please specify? I assume it will be ¾" Ø GSC conduit for above ground and ¾" Ø PVC conduit and bushing below ground for #8 AWG bare copper grounding wire and a 9" Ø traffic box (as called out in detail 5, drawing CP-08) but just want to confirm. Also, G-5 traffic box inner diam. Is 10-3/8", not 9". Can you please clarify?
Response 1.	3/4" GRS and PVC as indicated is acceptable. 10-3/4" G-5 is acceptable.
Question 2.	**Detail 1 – Drawing CP-08,** what is the required Pea Gravel size for Anode bed installation? Can we substitute Permaplug (bentonite) for Pea Gravel?
Response 2.	5/8" pea gravel is required over coke breeze.
Question 3.	**Detail 5 – Drawing CP-08,** please confirm ground rod size of 5/8"x 8'. Also, G-5 traffic box inner diam. Is 10-3/8", not 9". Can you please clarify?
Response 3.	5/8" diam. x 8' grounding rod in 10-3/8" inner diam. G-5 is acceptable.

Question 4.	**Technical Provisions Section 22, page 10, 2.5 Cable Warning Tape** – Is this requirement for direct buried cables only? If so, do you have a warning tape requirement for UG cables in conduit?
Response 4.	Warning tape required for all buried cable and conduit.
Question 5.	**Technical Provisions Section 22, page 9, G** specifies 13-inch inner diameter and acceptable G-5 Christy box or comparable for bed cover. A G-5 only has an inside diameter of 10-3/8". **Detail 2, drawing CP-10** calls out a G-8 Christy box which actually has a 13-inch inner diameter. Please clarify.
Response 5.	Please, use G-8 Christy for all anode well heads.
Question 6.	**Detail 1 and 2, drawing CP-09** states 10.75"x10.75"x1/4" Fabric Reinforced Phenolic Panel. These panels appear to be undersized factoring in all requested hardware. Can you please clarify or verify?
Response 6.	The panel sizes identified in details will be insufficient. JDH recommends sizing as required to fit the specified equipment onto the panels. JDH estimates that the A1614CHNF model, provided in Farwest Corrosion's online catalogue will be sufficient for locations with variable resistors. For panels without variable resistors, JDH estimates that the A1210CHNF model, provided in Farwest Corrosion's online catalogue will be sufficient for locations without variable resistors. Alisto may provide the drawing details to Farwest with a request for proper sizing according to hardware requirements.
Question 7.	**Technical Provisions Section 22, Part 1 General, 1.1. Requirements, B (item 5, a)** states "connect rectifier to an AC breaker panel at SV1 and SV2". However, **CP-08 Detail 5 (and per addendum 1)** states install AC disconnect inside enclosure. Please clarify.
Response. 7	An AC breaker switch will be provided at BIF, SV1, and SV2. Contractor will make the AC rectifier connection at that location. An additional AC power switch is required at each rectifier location. The AC power switch at the rectifier shall be mounted on the rectifier cabinet in the case of pad mounted ornamental rectifiers, or near to the box on the unistrut in the case of the unistrut mounted rectifier at V9.
Question 8.	Please provide more specifics on requested lockable AC power disconnects for CP-08, detail 5 and detail 6.
Response 8.	All rectifier, junction box, and power switch enclosures shall be provided with a locking mechanism designed for use with removable locks placed on a fixed anchor, such as welded tab and slot or double tab configurations, rather than a hasp mechanism.

Question 9.	**Detail 3 – Drawing CP-09** shows a standard exothermic weld onto the pipeline. However, **Technical Provisions Section 22, page 11, 2.8 Cable-to-Pipe Connection** states "Where shown on the Drawings, the cable connections shall be made by welding a prefabricated rod & cable assembly to the pipeline". Please clarify.
Response 9.	No welded rod connections are required. All direct connections to the pipe shall be made using an exothermic weld connection.

THIS ADDENDUM NO. 2, WHICH CONTAINS 3 PAGES, IS ATTACHED TO AND IS A PART OF THE SPECIFICATIONS AND CONTRACT DOCUMENTS FOR THIS PROJECT.

Katherine Oven

Date: 11/01/2017

Katherine Oven, P.E.
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Water Utility Capital Division

Santa Clara Valley Water District

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November 2, 2017

ADDENDUM NO. 3
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Project No. 95084002 Contract No. C0632

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

GENERAL QUESTIONS & RESPONSE

Question 1.	**Reference SCC Vault 9 Drawing CP-03** Regarding the pre-installed PG&E meter pedestal shown on the drawing, is there an underground conduit stub that will need to be intercepted to complete connection, or does the new ac power conduit need to penetrate the side of the meter pedestal?
Response 1.	Conduit has been stubbed out of the meter box 36" below grade, and several feet outside the footprint of the meter box concrete pad. The contractor shall coordinate with SCVWD personnel to locate the existing conduit stub, prior to excavation by the contractor for connection.
Question 2.	**Working within Federal Lands USBR R/W** Are there any special requirements for performing work within USBR R/W? Would SCVWD handle notification to and coordination with USBR?
Response 2.	SCVWD personnel will coordinate with property owners, USBR, and SCVWD's Biology group; however, permitting, access, and any regulatory requirements related to the sites shall apply to all on site work.

Question 3.	**Reference SCC Vault 9 Drawing CP-03 Note 1.** Regarding the AC power conduit to be trenched between the rectifier and meter pedestal, please confirm Note 1 applies to the AC Power conduit as well.
Response 3.	1. SCVWD has no requirement for moling across San Felipe; however, the County may require this construction type to maintain the integrity of the existing roadway. 2. The AC conduit shall be installed 36" below grade at all locations. If moling is required at the San Felipe Road crossing, no red concrete shall be required beneath the roadway.

THIS ADDENDUM NO. 3, WHICH CONTAINS 2 PAGES, IS ATTACHED TO AND IS A PART OF THE SPECIFICATIONS AND CONTRACT DOCUMENTS FOR THIS PROJECT.

Date: 11/2/17

Christopher Hakes, P.E.
Acting Deputy Operating Officer
Water Utility Capital Division