

KING COUNTY WATER DISTRICT NO. 90

KING COUNTY, WASHINGTON

RESOLUTION NO. 1065

A RESOLUTION of the Board of Commissioners of King County Water District No. 90, King County, Washington, authorizing contract for Reservoir No. 1 Seismic Upgrades in the sum of \$67,760.00, plus applicable tax, and cost of performance bonding.

WHEREAS, the District is required to upgrade its control systems and telemetry at Reservoir No. 1 to respond to changes and limitations of the current system relative to the risk of a seismic event; and

WHEREAS, the District, after substantial investigation, has determined the necessity and suitability of upgrading the systems; and

WHEREAS, Quality Controls Corporation has specific and specialized knowledge of the District's system and special facilities through its maintenance and professional services previously provided; and

WHEREAS, District management has advised the Board that the installation is of a specialized nature at a specialized facility in which the service is best accomplished by direct negotiation; and

WHEREAS, the final purchase price is not in excess of the cost of the equipment or work.

NOW, THEREFORE, BE IT RESOLVED by the Board of Commissioners of King County Water District No. 90, as follows:

SECTION 1: That the competitive bidding requirements of R.C.W. 57.08.050 are hereby waived upon the findings made hereinabove, and

SECTION 2: That a contract with Quality Controls Corporation is hereby authorized for

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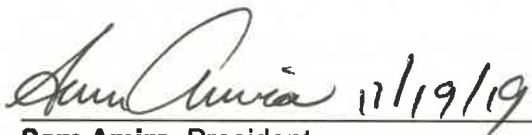
SUBJECT: Authorizing Award of Contract to Quality Controls Corporation for Reservoir No. 1 Seismic Upgrades Project

control system modifications to retrofit seismic valve and telemetry replacement as set forth in the "Scope Letter & Price" dated October 22, 2019, for the total sum of \$67,760.00, plus applicable tax, and the cost of bonding.

SECTION 3: That although competitive bid requirements are waived, the Contract with Quality Controls Corporation includes public works requirements regarding prevailing wages, bonding, retainage, and/or warranty, and the terms of said Contract are a condition of the work.

SECTION 4: That the General Manager is authorized to execute a Contract, and a copy shall be maintained for examination and inspection at the District's office, along with the Scope Letter & Price of Quality Controls Corporation.

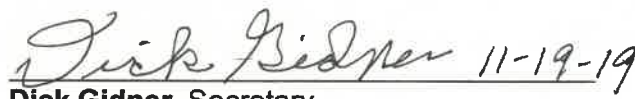
ADOPTED by the Board of Commissioners of King County Water District No. 90, King County, Washington, at a regular, open public meeting thereof on the 5th day of November, 2019.



Sam Amira, President



Byron Murgatroyd, Vice-President



Dick Gidner, Secretary

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5015 208th. St. S.W. Suite 1-B
Lynnwood, Washington 98036
Phone (425) 778-8280
Fax (425) 778-4541

Scope Letter & Price

October 22, 2019 Quote Number: Q3561

Attn: Joshua Drummond
 Operations Manager
 King County Water District No. 90

Project: WD90 Reservoir 1 Seismic Upgrades Project

Reference: -Existing District Telemetry Standards
 -Existing Reservoir #1 electrical drawings and as-built conditions
 -Onsite Meeting on Oct 3, 2019

Terms: Net 30

FOB: Lynnwood, WA

Freight: Prepaid and allowed

This quote is valid for **One (1) year** from the date above.

QCC is pleased to provide this quotation for the above referenced project. Quality Controls Corp. (QCC) provides services and materials, FOB Lynnwood, WA, **including installation by licensed electrical contractor if required.** Please see QCC's quoted price for this project. Please note this price does **NOT** include sales tax or bonding costs if required.

Please call me questions concerning price or scope of work.

A handwritten signature in black ink that reads "James Cross".

Sincerely,
James Cross

5015 – 208th Street S.W. Unit 1B Lynnwood, Washington 98036
Phone: 425.778.8280 Fax: 425.778.4541
Email: JamesC@QCCHome.com

Prices to Perform the Scope of Work Listed Below for each of the following sites:

▪ Pump Station 1 Seismic and Controls Upgrade	\$67,760.00
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Scope of Work

1. Control System modifications for retrofit seismic valve

Description: QCC provides the following services for modifications to the exiting telemetry controls and seismic control panel to retrofit the existing control system as necessary to provide automatic seismic control of the existing Cla-valve seismic control valve. Tasks include the following major items:

- a. Engineering Services:
 - i. Onsite engineering investigation to develop accurate as-built drawings for the existing control system.
 - ii. Develop modified control system drawings reflecting the required modifications to bot the existing telemetry and seismic control panels.
 - iii. Develop as-built drawings for the retrofit control system.
 - iv. Provide onsite support for functional testing of the modified control system and retrofit control valve.
- b. Technician Services:
 - i. Provide onsite technician to provide modifications to the existing telemetry and seismic control panels. Modifications include removal of the high flow shutdown controls, removal of the non-functional flo-loc controller, and reconfiguration for seismic switch shut down the existing control valve. Includes installation of new control relays, switches, and indicators as required. Includes interconnection of telemetry control panel for remote shutdown of control valve.

2. Reservoir 1 Control System and Telemetry Replacement

Description: QCC provides the following hardware and services for upgrading the existing station telemetry and seismic control panels. The new control system will provide the necessary hardware and upgrades to provide automatic seismic control of the existing Cla-Valve seismic control valve. In addition, the existing telemetry control valve will be replaced with a new control panel meeting the district's current hardware and software standards.

The new control panel will utilize high speed telemetry compatible with a future **Shake-Alert** system wide early earthquake detection system.

Hardware and services provided include:

- A. Provide new UL listed PLC control panel with required telemetry hardware. Includes all IO and functionality provided by the existing system utilizing current district standard hardware and system architecture, including but not limited to the following major components:

- a. NEMA 4X Stainless enclosure, estimated size 36"H x 36"W x 12"D.
 - b. Dead front swing panel.
 - c. Panel light, LED door switch activated.
 - d. Programmable Controller – Automation Direct Productivity 2000 Series PLC, includes all required IO modules with 20% installed spares.
 - e. Door mounted network convenience port.
 - f. Door mounted laptop shelf.
 - g. 10A Pheonix DC UPS power backup system with 7.2Ah battery.
 - h. Ntron managed Ethernet switch
 - i. Automation Direct 10" Touch Display
 - j. Telemetry Hardware for Ethernet connectivity, including:
 - i. Cradlepoint Cellular/Copper VPN router
 - k. Power distribution breakers and circuits as required to power all existing internal and external loads.
 - l. Control Relays as required to interface all control signals.
- B. Provide onsite technician to provide modifications to the existing telemetry and seismic control panels. Modifications include removal of the high flow shutdown controls, removal of the non-functional flo-loc controller, and reconfiguration for seismic switch shut down the existing control valve. Includes installation of new control relays, switches, and indicators as required. Includes interconnection of telemetry control panel for remote shutdown of control valve.
- C. Onsite Electrical Coordination Meetings- This quotation includes onsite electrical coordination meetings to be attended by QCC's project manager prior to construction for each station to be upgraded under this quotation.
- D. Installation and cutover planning- QCC provides the required engineering and electrical design necessary to maintain required operation of the station throughout the upgrade project. QCC's project manager, engineering team, and electrical contractor will coordinate with district staff to identify operational requirements, develop shutdown plans, and coordinate equipment installations.
- E. Electrical Installation- QCC's will provide electrical installation of all equipment provided in this quotation. Installation will be performed by a licensed electrical contractor in accordance with all applicable codes and regulations. Includes all required permitting.
- Includes installation of all required temporary controls and equipment to maintain operational requirements of the station.
- F. As built services – QCC will provide a complete CAD based drawing package of as-built system wiring diagrams for the upgraded systems included in this scope of work.
- G. Programming services- QCC will provide all required PLC, OIT, Wonderware SCADA, and telemetry programming and configuration required for a complete functional remote telemetry system of the station. Includes configuration of the Win911, and Historian database for upgraded stations.

- H. This quotation includes a full factory test of all hardware and software provided under this quotation. QCC will perform and complete un-witnessed test of equipment to be provided prior to hosting the district staff for a witnessed factory test. The factory test will demonstrate the functionality of the new hardware, and software for each upgraded site.
- I. Startup and Commissioning- QCC provides the required field testing, startup, and commissioning of the upgraded station including testing the control system, telemetry communications, Wonderware, and Win911 systems for each upgraded site.

STANDARD INCLUSIONS

We provide the following unless specifically excluded on our bill of material:

- 1. Equipment shipped FOB factory with freight allowed, tailgate, and destination.
- 2. Field wiring diagrams showing interconnection of field instruments and instrumentation panels.1
- 3. Instruction manuals as required.
- 4. All necessary field start-up and calibration of the equipment we supply.

STANDARD EXCLUSIONS

We do NOT include the following unless specifically included in our bill of material:

- 1. Pipe, tubing, valves or fittings between the instrument and the process.
- 2. ~~Conduit, wire or cable not integral to instrument or control panels supplied by QCC.~~
- 3. Mounting brackets, stanchions, supports or mounting pads not an integral part of the instrument.
- 4. ~~Labor to install the equipment.~~
- 5. ~~The Cost, (if due to local union regulations), to have local craftsman make adjustments or wiring modifications to our equipment during start up and calibration.~~
- 6. Any material or services not in our quoted sections.
- 7. This proposal is based on award of a supply purchase order and does not include any of the costs associated with bonding or subcontract administration. If bonding or a subcontract is required they can be provided for additional cost.

This scope of work and pricing is acceptable and agreed upon by:

Water District 90 Authorized Signature:

Dick Gidner 11-5-19 SECRETARY
(Signature) (Date) (Title)

DICK GIDNER
(Printed Name)

QCC Quality Controls Authorized Signature:

James Cross, Sales Manager _____
Quality Controls Corporation (Date)

