

Attachment B – Additional Project Information

Control System and Telemetry Upgrade Phase 2 and 3

Project Discussion

Under this sole-source contract, Technical Systems Inc. (TSI) refurbished or replaced control panels and communication systems at twelve City water facilities, including five flow control sites, four tank sites, and three well sites. These improvements strengthen system reliability and provide standardized communication across the water system.

Public Works maintains and operates Redmond's telemetry network, which supports monitoring, alarm response, and automated control for both water and wastewater infrastructure. The City's system uses customized software and hardware developed specifically for operational needs. TSI serves as the designated system integrator, supplying the components and programming required to maintain consistency systemwide.

Standardizing equipment reduces operational complexity, simplifies troubleshooting, and shortens outage response. Many third-party components are incompatible with Redmond's established control platform, which would increase long-term maintenance costs. To ensure compatibility and protect the City's investment, Council adopted Resolution No. 1398 in 2014 under RCW 39.04.280(2)(a), waiving competitive bidding and establishing TSI as the exclusive provider for telemetry upgrades.

Phases 2 and 3 began in May 2022 following predesign work completed by BHC Consultants and TSI in October 2021. The project schedule was extended due to supply chain delays and the specialized fabrication required for the new components. Three change orders were executed to incorporate additional needs and timeline adjustments:

- Change Order 01: added Wastewater Lift Station 18 to ensure full system coverage.
- Change Order 02: extended the contract duration through the end of 2025.
- Change Order 03: added intrusion alarm integration for all water sites to enhance SCADA system security.

These modifications resulted in a final contract amount of **\$3,721,377**.

Fiscal Information

Current Project Budget

Wastewater CIP 404 fund	\$106,549
Water CIP 403 fund	\$5,205,057
Total Funding	\$5,311,606

Estimated Project Costs

Preliminary Design	\$103,404
Design	\$136,864
Construction	\$4,198,402
Contingency	\$872,936
Total Estimated Project Cost	\$5,311,606

Budget Difference	\$0
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Previous Project-Related Council Touches

Date	Meeting	Action
6/7/2022	Business Meeting	Approve

Project Photos



New control cabinet on NE 90th St



Typical cabinet interior



Typical cell/radio antenna