

RESOLUTION NO. 2542

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF BONNEY LAKE, PIERCE COUNTY, WASHINGTON, AUTHORIZING A CONTRACT WITH RH-2 ENGINEERING, INC. FOR SERVICES TO DESIGN AND PROGRAMMING EFFORTS FOR SCADA SYSTEMS UPGRADE – PHASE 3.

WHEREAS, the Public Works Department reviewed the final analysis of the SCADA system presented by RH-2, identified the upgrades, and divided the upgrades to the system into phases; and

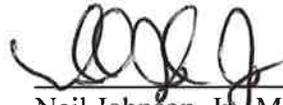
WHEREAS, Phase 2 – SCADA Systems Upgrade effort has now been completed by the Contractor, Northeast Electric, LLC; and

WHEREAS, the City received a quote from RH-2 Engineering to complete the design effort, the constructions services support, and programming effort for Phase 3 - SCADA Systems Upgrade in the amount of \$62,976.00;

NOW THEREFORE, THE CITY COUNCIL OF THE CITY OF BONNEY LAKE, WASHINGTON DOES HEREBY RESOLVE AS FOLLOWS:

That the City of Bonney Lake Council does hereby authorize the Mayor to sign the attached professional services agreement with RH-2 Engineering, Inc.

PASSED by the City Council this 14th day of June, 2016.



Neil Johnson, Jr., Mayor

AUTHENTICATED:


Harwood T. Edvalson, MMC, City Clerk

APPROVED AS TO FORM:


Kathleen Haggard, City Attorney

PROFESSIONAL SERVICES AGREEMENT
City of Bonney Lake – Phase 3 – SCADA System Upgrades

THIS PROFESSIONAL SERVICES AGREEMENT (“Agreement”) is made and entered into this 14th day of June, 2016, by and between the City of Bonney Lake (“City”) and RH2 Engineering, Inc., (“Consultant”).

The parties hereby agree as follows:

1. **Scope of Work.** The Consultant shall perform all work and provide all materials described in the Scope of Work set out in Exhibit A attached hereto and incorporated herein by this reference. Such work shall be performed using facilities, equipment and staff provided by Consultant, and shall be performed in accordance with all applicable federal, state and local laws, ordinances and regulations. The Consultant shall exercise reasonable care and judgment in the performance of work pursuant to this Agreement. The Consultant shall make minor changes, amendments or revisions in the detail of the work as may be required by the City, such work not to constitute Extra Work under this Agreement.
2. **Ownership of Work Product.** Documents, presentations and any other work product produced by the Consultant in performance of work under this Agreement shall be tendered to the City upon completion of the work, and all such product shall become and remain the property of the City and may be used by the City without restriction; *provided*, that any such use by the City not directly related to the particular purposes for which the work product was produced shall be without any liability whatsoever to the Consultant.
3. **Payment.** The Consultant shall be paid by the City for completed work and services rendered under this Agreement pursuant to the rates and charges set out in Exhibit B and Exhibit C, attached hereto and incorporated herein by this reference. Such payment shall be full compensation for work performed or services rendered and for all labor, materials, supplies, equipment, and incidentals necessary to complete the work. All billings for compensation for work performed under this Agreement shall list actual time and dates during which the work was performed and the compensation shall be figured using the rates set out in Exhibit C; *provided*, that payment for work within the Scope of Work (Exhibit A) shall not exceed the fee/hour estimate set out in Exhibit B without written amendment to this Agreement, agreed to and signed by both parties.

Acceptance of final payment by the Consultant shall constitute a release of all claims, related to payment under this Agreement, which the Consultant may have against the City unless such claims are specifically reserved in writing and transmitted to the City by the Consultant prior to acceptance of final payment. Final payment shall not, however, be a bar to any claims that the City may have against the Consultant or to any remedies the City may pursue with respect to such claims.

The Consultant and its sub consultants shall keep available for inspection, by the City, for a period of three years after final payment, the cost records and accounts pertaining to this Agreement and all items related to, or bearing upon, such records. If any litigation, claim or audit is started before the expiration of the three-year retention period, the records shall be retained until all litigation, claims or audit findings involving the records have been resolved. The three-year retention period shall commence when the Consultant receives final payment.

4. **Changes in Work.** The Consultant shall make all revisions and changes in the work completed under this Agreement as are necessary to correct errors, when required to do so by the City, without additional compensation.

5. **Extra Work.** The City may desire to have the Consultant perform work or render services in addition to or other than work provided for by the expressed intent of the Scope of Work. Such work will be considered Extra Work and will be specified in a written supplement which will set forth the nature and scope thereof. Work under a supplement shall not proceed until authorized in writing by the City. Any dispute as to whether work is Extra Work or work already covered by this Agreement shall be resolved before the work is undertaken. Performance of the work by the Consultant prior to resolution of any such dispute shall waive any claim by the Consultant for compensation as Extra Work.

6. **Employment.** Any and all employees of Consultant, while engaged in the performance of any work or services required by the Consultant under this Agreement, shall be considered employees of the Consultant only and not of the City, and any and all claims that may or might arise under the Workman's Compensation Act on behalf of said employees, while so engaged; any and all taxes arising out of Consultant's or Consultant's employees' work under this Agreement; and any and all claims made by a third party as a consequence of any acts, errors, or omissions on the part of the Consultant's employees, while so engaged, shall be the sole obligation and responsibility of the Consultant, except as provided in Section 12 of this agreement. The Consultant's relation to the City shall at all times be as an independent contractor.

7. **Nondiscrimination and Legal Compliance.** Consultant agrees not to discriminate against any client, employee or applicant for employment or for services because of race, creed, color, national origin, marital status, gender, age or handicap except for a bona fide occupational qualification with regard to, but not limited to, the following: employment upgrading; demotion or transfer; recruitment or any recruitment advertising; layoff or termination; rates of pay or other forms of compensation; selection for training; and rendition of services. The consultant represents and warrants that it is in compliance with and agrees that it will remain in compliance with the provisions of the Immigration Reform and Control Act of 1986, including but not limited to the provisions of the Act prohibiting the hiring and continued employment of unauthorized aliens and requiring verification and record keeping with respect to the status of each of its employees' eligibility for employment. The consultant shall include a provision substantially the same as this section in any and all contracts with sub consultants performing work required of the contractor under this contract. The consultant agrees to indemnify and hold the City harmless from any and all liability, including liability for interest and penalties, the City may incur as a result of

the consultant failing to comply with any provisions of the Immigration Reform and Control Act of 1986. Consultant understands and agrees that if it violates this section, this Agreement may be terminated by the City, and that Consultant shall be barred from performing any services for the City in the future unless and until a showing is made satisfactory to the City that discriminatory practices have terminated and that recurrence of such action is unlikely.

8. **Term.** This Agreement shall become effective upon the day of its execution by both parties, and shall terminate upon completion of the work and delivery of all materials described in Exhibit A.

9. **Termination by City.** The City may terminate this Agreement at any time upon not less than ten (10) days written notice to Consultant, subject to the City's obligation to pay Consultant in accordance with subsections A and B below.

A. In the event this Agreement is terminated by the City other than for fault on the part of the Consultant, a final payment shall be made to the Consultant for actual cost of work complete at the time of termination of the Agreement. In addition, the Consultant shall be paid on the same basis as above for any authorized Extra Work completed. No payment shall be made for any work completed after ten (10) days following receipt by the Consultant of the termination notice. If the accumulated payment(s) made to the Consultant prior to the termination notice exceeds the total amount that would be due as set forth in this subsection, then no final payment shall be due and the Consultant shall immediately reimburse the City for any excess paid.

B. In the event the services of the Consultant are terminated by the City for fault on the part of the Consultant, subsection A of this section shall not apply. In such event the amount to be paid shall be determined by the City with consideration given to the actual costs incurred by the Consultant in performing the work to the date of termination, the amount of work originally required which was satisfactorily completed to date of termination, whether that work is in a form or of a type which is usable by the City at the time of termination, the cost to the City of employing another person or firm to complete the work required and the time which may be required to do so, and other factors which affect the value to the City of the work performed at the time of termination. Under no circumstances shall payment made under this subsection exceed the amount which would have been made if subsection A of this section applied.

C. In the event this Agreement is terminated prior to completion of the work, the original copies of all work products prepared by the Consultant prior to termination shall become the property of the City for its use without restriction; *provided*, that any such use by the City not directly related to the particular purposes for which the work product was produced shall be without any liability whatsoever to the Consultant.

10. **Termination by Consultant.** Consultant may terminate this Agreement only in response to material breach of this Agreement by the City, or upon completion of the work set out in the Scope of Work and any Extra Work agreed upon by the parties.

11. **Applicable Law; Venue.** The law of the State of Washington shall apply in interpreting this Agreement. Venue for any lawsuit arising out of this Agreement shall be in the Superior Court of the State of Washington, in and for Pierce County.

12. **Indemnification / Hold Harmless**

Consultant shall defend, indemnify and hold the City, its officers, officials, employees and volunteers harmless from any and all claims, injuries, damages, losses or suits including attorney fees arising out of or resulting from the negligent acts, errors or omissions of the Consultant in performance of this Agreement, except for injuries and damages caused by the sole negligence of the City. In the event of liability for damages arising out of bodily injury to persons or damages to property caused by or resulting from the concurrent negligence of the Consultant and the City, its officers, officials, employees, and volunteers, the Consultant's liability, including the duty and cost to defend, hereunder shall be only to the extent of the Consultant's negligence. It is further specifically and expressly understood that the indemnification provided herein constitutes the Consultant's waiver of immunity under Industrial Insurance, Title 51 RCW, solely for the purposes of this indemnification. This waiver has been mutually negotiated by the parties. The provisions of this section shall survive the expiration or termination of this Agreement.

Insurance

The Consultant shall procure and maintain for the duration of the Agreement, insurance against claims for injuries to persons or damage to property which may arise from or in connection with the performance of the work hereunder by the Consultant, its agents, representatives, or employees.

A. Minimum Scope of Insurance

Consultant shall obtain insurance of the types described below:

1. Automobile Liability insurance covering all owned non-owned, hired and leased vehicles. Coverage shall be written on Insurance Services Office (ISO) form CA 00 01 or a substitute form providing equivalent liability coverage. If necessary, the policy shall be endorsed to provide contractual liability coverage.
2. Commercial General Liability insurance shall be written on ISO occurrence form CG 00 01 and shall cover liability arising from premises, operations, independent contractors and personal injury and advertising injury. The City shall be named as an insured under the Consultant's Commercial General Liability insurance policy with respect to the work performed for the City.
3. Workers' Compensation coverage as required by the Industrial Insurance laws of the State of Washington.

4. Professional Liability insurance appropriate to the Consultant's profession.

B. Minimum Amounts of Insurance

Consultant shall maintain the following insurance limits:

1. Automobile Liability insurance with a minimum combined single limit for bodily injury and property damage of \$1,000,000 per accident.

2. Commercial General Liability insurance shall be written with limits no less than \$1,000,000 each occurrence, \$2,000,000 general aggregate.

3. Professional Liability insurance shall be written with limits no less than \$1,000,000 per claim and \$1,000,000 policy aggregate limit.

C. Other Insurance Provisions

The insurance policies are to contain, or be endorsed to contain, the following provisions for Automobile Liability, Professional Liability and Commercial General Liability insurance:

1. The Consultant's insurance coverage shall be primary insurance as respect the City. Any insurance, self-insurance, or insurance pool coverage maintained by the City shall be excess of the Consultant's insurance and shall not contribute with it.

2. The Consultant's insurance shall be endorsed to state that coverage shall not be cancelled by either party, except after thirty (30) days prior written notice by certified mail, return receipt requested, has been given to the City.

D. Acceptability of Insurers

Insurance is to be placed with insurers with a current A.M. Best rating of not less than A:VII.

E. Verification of Coverage

Consultant shall furnish the City with original certificates and a copy of the amendatory endorsements, including but not necessarily limited to the additional insured endorsement, evidencing the insurance requirements of the Consultant before commencement of the work.

13. **Subletting or Assigning.** The Consultant shall not sublet or assign any of the work covered by this Agreement without the express written consent of the City.

14. **Entire Agreement.** This Agreement represents the entire Agreement between the parties. No change, termination or attempted waiver of any of the provisions of the Agreement shall be binding on any party unless executed in writing by authorized representatives of each

party. The agreement shall not be modified, supplemented or otherwise affected by the course of dealing between the parties.

15. **Waiver.** Failure by any party to this Agreement to enforce any provision of this Agreement or to declare a breach shall not constitute a waiver thereof, nor shall it impair any party's right to demand strict performance of that or any other provision of this Agreement any time thereafter.

16. **Severability.** If any provision of this Agreement or its application is held invalid, the remainder of the Agreement or the application of the remainder of the Agreement shall not be affected.

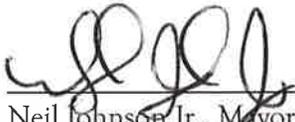
17. **Execution and Acceptance.** This Agreement may be executed in several counterparts, each of which shall be deemed to be an original having identical legal effect. The Consultant hereby ratifies and adopts all statements, representations, warranties, covenants, and agreements contained in the supporting materials submitted by the Consultant, and does hereby accept the Agreement and agrees to all of the terms and conditions thereof.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement as of the date first above written.

CITY OF BONNEY LAKE

RH2 ENGINEERING, INC.

By:


Neil Johnson Jr., Mayor

By:


Geoffrey G. Dillard, Director

Attachments:

Exhibit A: Scope of Work/Deliverables

Exhibit B: Fee Estimate

Exhibit C: Schedule of Rates and Charges

EXHIBIT A
Scope of Work
City of Bonney Lake
Phase 3 – SCADA System Upgrades
June 2016

THIS DOCUMENT IS CONFIDENTIAL AND EXEMPT FROM PUBLIC DISCLOSURE UNDER THE PUBLIC DISCLOSURE ACT, RCW 42.56, ET SEQ, SECTIONS 0.210 and 0.420. This document has been prepared, assembled, or maintained to prevent, mitigate, or respond to criminal terrorist acts, and to protect against threats to public safety.

Background

The City of Bonney Lake's (City) supervisory control and data acquisition system (SCADA) consists of the instrumentation, controllers, computers, software, and communication components required to monitor and control the City's water and wastewater infrastructure. SCADA systems are updated over time as capital, operations, and maintenance (O&M) funding becomes available. Due to the size and scope of the City's SCADA system, a considerable portion of it consists of obsolete legacy components. Recently, the City completed Phases 1 and 2 of upgrading portions of these obsolete legacy SCADA components.

The City has decided to proceed with the third phase of the SCADA system upgrades, which shall include upgrading the telemetry equipment and software at the Victor Falls Water Pump Station and the Tacoma Point Wells Facility to an Ethernet-based network system.

The City has requested the services of RH2 Engineering, Inc., (RH2) to prepare bid-ready electrical installation plans and specifications, and provide services during bidding (SDB), services during construction (SDC), and automatic control software development tasks for this project. This Scope of Work details the design, SDB, SDC, and software development tasks that will be performed by RH2.

DEFINITIONS

SCADA – Supervisory control and data acquisition. Distributed computer control system used for monitoring and controlling remote City water and wastewater facilities.

PLC – Programmable logic controller. Industrial monitoring and control computer used for controlling and monitoring of the reservoirs.

MTU – Master telemetry unit. This refers to the central City headquarters SCADA equipment.

HMI – Human machine interface. The Microsoft Windows-based graphical computer interface used by City staff for monitoring the entire SCADA system.

OI – Operator interface. Graphical touch screen provided at remote facilities for operator monitoring and control of a facility while onsite.

O&M – Operations and maintenance.

QA/QC – Quality assurance and quality control.

Task 1 – Project Administration

Objective: Administer project records and coordinate with the project team.

Approach:

- 1.1 Manage the RH2 project team to track work elements accomplished, work items planned for the next phase, man hours, scope changes, time, and budget needed to complete the work. Prepare weekly progress reports to summarize work accomplished for the week, anticipate work for the following weeks, and identify potential problems or changes. Submit a monthly invoice summarizing costs and remaining budget.

RH2 Deliverables:

- Weekly action-item list and progress report.
- Monthly invoices.
- Meeting agendas and minutes, issued electronically.

Task 2 – Victor Falls and Tacoma Point Wells Telemetry Panel Upgrades Design

Objective: Prepare bid-ready design plans and specifications for the proposed electrical and control system work at the Victor Falls Pump Station and Tacoma Point Wells Facility.

Approach:

- 2.1 Prepare Victor Falls Pump Station and Tacoma Point Wells Telemetry Panel Upgrade Electrical Plans – Prepare electrical plans for the telemetry panel upgrades at the Victor Falls Pump Station and Tacoma Point Wells. Electrical plans will include telemetry panel upgrade details.
- 2.2 Prepare Technical Specifications – Prepare specifications using the technical specifications RH2 tailored for this project. Update the standard specifications and general conditions as warranted for this project.
- 2.3 Submit 90-percent Documents for City Review and Edit Plans – Design progress submittals shall be made at the 90-percent design stage and will include specifications and drawings. The 90-percent documents will be submitted to the City, and after a review period, RH2 will attend one (1) review meeting with the City. Upon completion of addressing the 90-percent comments, RH2 will submit a set of documents to the City for final comments.
- 2.4 Perform QA/QC and Internal Review – Provide QA/QC services as part of this Scope of Work. Services will include a formal internal QA/QC process, which provides review of RH2's design and final deliverables.
- 2.5 Prepare Cost Estimates – Prepare 90-percent and final construction cost estimates.
- 2.6 Prepare Final Bid Documents – RH2 will coordinate with the City in providing final bid documents to bidders. *It is assumed that five (5) sets of bid documents with half-sized (11-inch by 17-inch) plans will be produced, with three (3) sets of each being for City staff, and two (2) sets of each for RH2.* Bidders will receive electronic PDF versions only. Provide PDF version of plans and specifications to the City.

Assumptions: Refer to the attached **Fee Estimate (Exhibit B)** for an estimate of time required for design tasks. Revisions due to changes in design criteria after those elements have been designed will require a Scope of Work and Fee Estimate amendment.

RH2 Deliverables:

- 90-percent design plan reviews.
- In-house QA/QC reviews.
- 90-percent and final construction cost estimates in electronic PDF format.
- Five (5) sets of bid documents with half-size (11-inch by 17-inch) plans. Two (2) sets shall be for RH2 use and file.
- Bid-ready plans and specifications in electronic PDF format for the City's use in producing bid sets for electronic distribution.

Task 3 – Services During Bidding

Objective: Provide assistance to the City during project bidding.

Approach:

- 3.1 Respond to Bidder Questions – Respond to bidders' technical questions, as needed, during the bidding process. *It is assumed that the City will respond to procedural questions. RH2 will not coordinate directly with bidders; RH2 will receive bidder questions from the City and respond via the City.*
- 3.2 Prepare Project Bid Addendum – Prepare up to one (1) addendum in electronic format for the City to distribute to the plan holders.

Assumptions: *In the event the City prefers hard copies of bid sets for prospective bidders, these can be prepared by RH2 and provided to the City using our standard hourly rates and charges. The City will publish the advertisement in the required newspapers. The City will receive all bidder questions and record them for forwarding to RH2 at the City's discretion. The City will conduct the bid opening. It is assumed that RH2 will not attend. RH2's review of the bids will be limited to the Schedule of Prices and checking references. The City will review all other elements of the bid proposals, as they deem appropriate. The City will handle bid award and contract execution.*

Provided by City of Bonney Lake:

- Advertisement for bid.
- Receive and record questions from bidders.
- Bid opening.
- Submitted bids for bid tabulation.

RH2 Deliverables:

- Responses to bidder questions transmitted by the City to RH2.
- Up to one (1) addendum.

Task 4 – Services During Construction

Objective: Provide technical services during construction, as requested by the City, for the telemetry panel replacement and upgrade work at Lift Station Nos. 12 and 16, and the Victor Falls Pump Station, including pre-construction meeting attendance, submittal review, on-site observation, and other services to the level as described in this task and provided for in the **Fee Estimate (Exhibit B)**. Should additional support be required, RH2 can prepare a contract amendment to this Scope of Work for additional services.

Approach:

- 4.1 Attend Pre-construction Meeting – Attend the pre-construction meeting to discuss technical sections of the project documents and project requirements. Contractor documents requiring review by RH2 will be submitted at the meeting for review and comments.
- 4.2 Review Submittals/Shop Drawings – Review shop drawings and catalog submittals of those items requested in the technical specifications. RH2 will provide a written response to the construction contractor and the City accepting or rejecting each shop drawing and catalog submittal reviewed.
- 4.3 Provide Design Clarification and Respond to Requests for Information – Provide technical support by responding to contractor's questions and requests for information (RFIs).
- 4.4 Provide Periodic On-site Observation – Provide periodic on-site construction observation regarding the electrical and control construction work on an as-needed basis, as requested by the City. *Construction observation shall include two (2) site visits to each site from an RH2 project manager and/or staff engineer.*
- 4.5 Review Change Orders – Review contractor pricing of change orders and provide a written recommendation to the City regarding the reasonableness of the cost. *Upon City approval of the change, significant drawing and/or specification revisions required for change orders shall meet the same criteria required for design, including submittal in electronic format, unless otherwise directed by the City.* Coordinate change orders with the City, as needed.
- 4.6 Prepare Project Punchlist – Prepare final punchlist for electrical and SCADA improvements. *The list will identify corrections required of the contractor before a final completion date is established.*
- 4.7 Prepare Construction Record Drawings – Review field records and revise project drawings to prepare construction record drawings.

Assumptions: *The construction phase services defined above are variable in nature and depend, in part, on the contractor awarded the project. The estimate is based upon an experienced and reasonable contractor being awarded the construction contract with the City. RH2 recommends the City budget the amount shown in the **Fee Estimate (Exhibit B)**, plus a contingency amount. The contingency would cover additional services if a more intensive level of observation and technical support is deemed necessary by the City. RH2 is not responsible for site safety or for directing the contractor's work. Submittals, RFIs, and change order documentation related to the electrical and control design will be sent directly to the City. If additional hours are needed to accomplish Task 4 due to events beyond RH2's control, such as delays caused by others, RH2 will notify the City in advance of such additional hours needed, and additional hours shall be mutually negotiated.*

RH2 Deliverables:

- On-site observation reports.
- Written responses for shop drawings and submittals, RFIs, pay requests, and change orders.

- Final project punchlist.
- Construction record drawings.

Task 5 – Software Development, Startup, and Testing

Objective: Provide control software development services for the proposed OI and PLC equipment at the Victor Falls Pump Station and Tacoma Point Wells Facility. Provide field testing, startup, and commissioning services.

Approach:

- 5.1 Develop SCADA Control Strategy – Develop control strategy for the Victor Falls Pump Station and Tacoma Point Wells that will be used to develop the PLC and SCADA programming.
- 5.2 Develop PLC Software – Provide PLC ladder logic software development, as required, for monitoring and controlling the pump station and lift stations equipment.
- 5.3 Develop OI Software – Provide OI software development for the Victor Falls Pump Station and Tacoma Point Wells.
- 5.4 Coordinate with MTU and HMI Computer Systems Integrator – Coordinate with the City’s MTU and HMI computer integrator, Parametrix, to integrate the proposed pump station and well facility control equipment into the existing SCADA system.
- 5.5 Perform Control Equipment Factory Testing – Attend control equipment factory testing at the control system integrator’s panel shop. Witness hardware testing of the control equipment by the control system integrator. Load PLC and OI software on to the proposed PLC and OI and test software functionality.
- 5.6 Attend Field Testing, Startup, and Commissioning – Field test PLC, OI, and communications equipment for end-to-end data transmission integrity and accuracy. Field test OI screens for connectivity, detail, and accuracy of information displayed. Field test SCADA alarm, navigation, and intrusion security configurations and functions. Attend startup and commissioning of the Victor Falls Pump Station and Tacoma Point Wells control systems.
- 5.7 Develop SCADA System O&M Material.
- 5.8 Provide SCADA System Training – Provide two (2) days of on-site training on manual, programming, communications, and software operation aspects of the system utilizing the O&M manual as a training aid.

Assumptions: *Software development, data points, and graphical displays will be defined and approved by RH2 and the City. Pump control will be defined and approved by RH2 and the City. RH2’s Fee Estimate (Exhibit B) for Task 5 assumes a certain level of cooperation and timeliness from the contractor and any third parties required for testing. If additional hours are needed to accomplish Task 5 due to events beyond RH2’s control, RH2 will notify the City in advance of such additional hours needed, and additional hours shall be mutually negotiated. RH2 will provide sixteen (16) hours of training to City staff. If the City requires assistance above and beyond the fee amount associated for subtask 5.8, the City and RH2 will mutually agree upon an additional fee amount for continued training.*

RH2 Deliverables:

- PLC information developed during subtask 5.1.
- PLC software and OI screen designs developed in subtasks 5.2 and 5.3.
- Final startup and commissioning reports completed during subtask 5.6.
- One (1) electronic copy of PLC and OI software.
- One (1) electronic copy of the following items.
 - Project spreadsheet file that includes information about the software configuration, addressing, data point names, alarms, control loops, and descriptions.
 - O&M material for SCADA system software.

EXHIBIT B

City of Bonney Lake

Phase 3 - SCADA System Upgrades

Fee Estimate

Description	Staff Engineer	Project Engineer	Project Manager	Project Manager	Principal	Administrative Support	Total Hours	Total Labor	Total Expense	Total Cost
Classification	Professional II	Professional III	Professional VI	Professional VII	Professional VIII	Administrative V				
Task 1 Project Administration	-	-	6	4	2	-	12	\$ 2,376	\$ 59	\$ 2,435
Task 2 Victor Falls and Tacoma Point Wells Telemetry Panel Upgrades Design	34	24	16	-	2	4	80	\$ 12,878	\$ 1,379	\$ 14,257
Task 3 Services During Bidding	-	12	6	-	-	-	18	\$ 3,042	\$ 159	\$ 3,201
Task 4 Services During Construction	28	4	26	-	-	2	60	\$ 10,006	\$ 1,640	\$ 11,646
Task 5 Software Development, Startup, and Testing	-	-	16	130	-	4	150	\$ 30,056	\$ 1,381	\$ 31,437
Phase 3 - SCADA System Upgrades Total	62	40	70	134	4	10	320	\$ 58,358	\$ 4,618	\$ 62,976

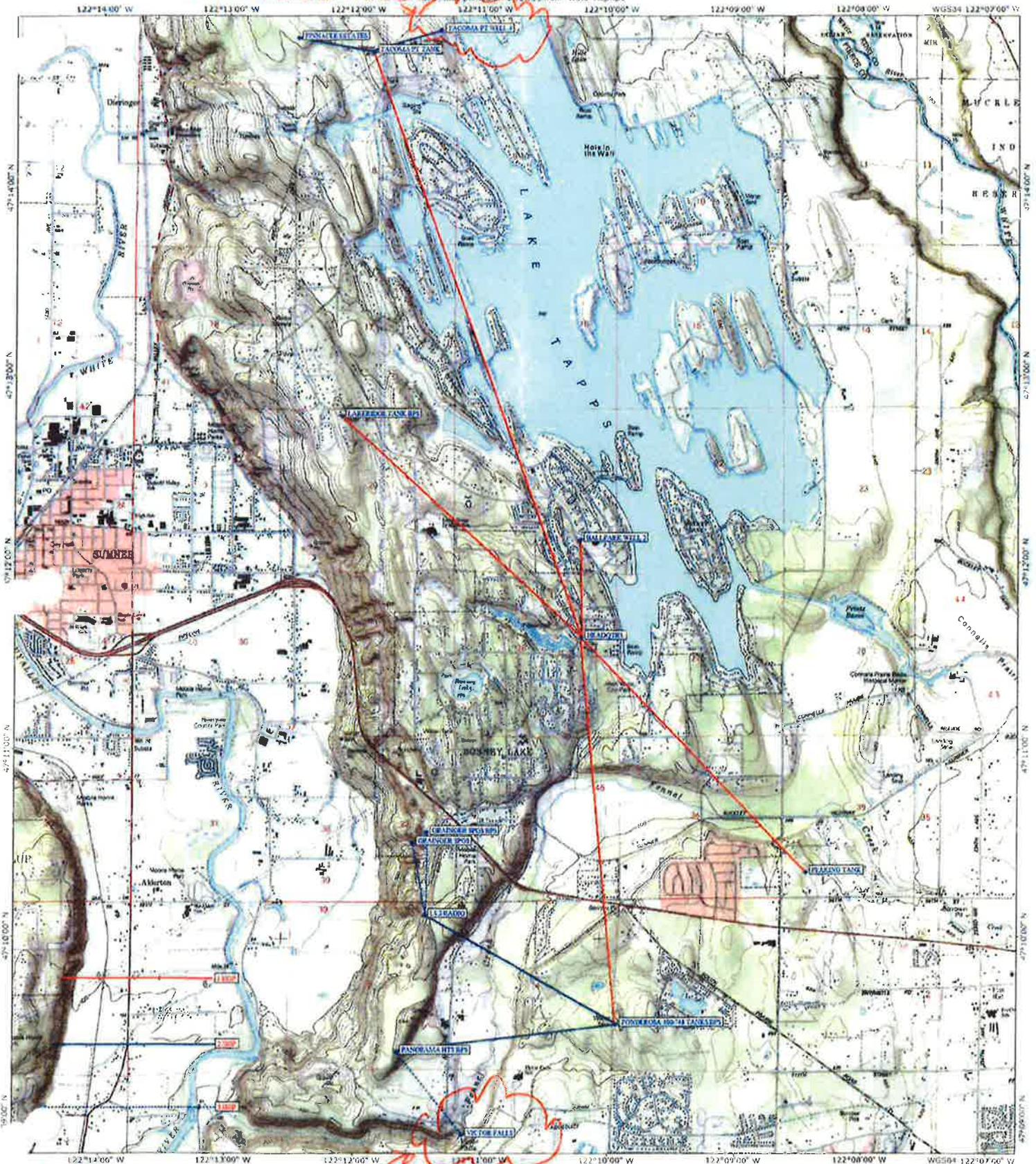
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EXHIBIT C		
RH2 ENGINEERING, INC.		
2016 SCHEDULE OF RATES AND CHARGES		
RATE LIST	RATE	UNIT
Professional I	\$137	\$/hr
Professional II	\$150	\$/hr
Professional III	\$159	\$/hr
Professional IV	\$170	\$/hr
Professional V	\$180	\$/hr
Professional VI	\$189	\$/hr
Professional VII	\$204	\$/hr
Professional VIII	\$213	\$/hr
Professional IX	\$213	\$/hr
Technician I	\$96	\$/hr
Technician II	\$101	\$/hr
Technician III	\$129	\$/hr
Technician IV	\$137	\$/hr
Administrative I	\$65	\$/hr
Administrative II	\$77	\$/hr
Administrative III	\$92	\$/hr
Administrative IV	\$108	\$/hr
Administrative V	\$128	\$/hr
CAD/GIS System	\$27.50	\$/hr
CAD Plots - Half Size	\$2.50	price per plot
CAD Plots - Full Size	\$10.00	price per plot
CAD Plots - Large	\$25.00	price per plot
Copies (bw) 8.5" X 11"	\$0.09	price per copy
Copies (bw) 8.5" X 14"	\$0.14	price per copy
Copies (bw) 11" X 17"	\$0.20	price per copy
Copies (color) 8.5" X 11"	\$0.90	price per copy
Copies (color) 8.5" X 14"	\$1.20	price per copy
Copies (color) 11" X 17"	\$2.00	price per copy
Technology Charge	2.50%	% of Direct Labor
Mileage	\$0.540	price per mile (or Current IRS Rate)
Subconsultants	15%	Cost +
Outside Services	at cost	

Proposed Water Telemetry Network CITY OF BONNEY LAKE - WATER

8-8-2013

SCADA UPGRADE Phase 3



SCADA UPGRADE
Phase 3

Map created with 2004 National Geographic (www.nationalgeographic.com/maps)



RH2 ENGINEERING, INC.
 950 Pacific Avenue, Suite 1220
 Tacoma, WA 98402
 (253) 272-3059 ext 2510 or (800) 720-8052
 Fax: (425) 398-2774

Letter of Transmittal

DATE: <u>April 21, 2016</u>	BON S40
ATTENTION: Mr. Budzynski, Asst. City Eng.	
RE: City of Bonny Lake - Phase 3 - SCADA System Upgrades	

TO: City of Bonney Lake
 PO Box 7380
 Bonney Lake, WA 98391

RECEIVED

JUN 03 2016

Sent Via: US Mail **PUBLIC WORKS**

WE ARE SENDING YOU THE FOLLOWING:

<input checked="" type="checkbox"/>	Attached	Under Separate Cover Via:			
	Shop Drawings	Prints	Plans	Samples	Specifications
	Copy of Letter	Change Order	Submittals		

COPIES	DATE	NO.	DESCRIPTION
2	6-3-16	14pgs/ ea	Professional Services Agreement for the Phase 3 SCADA System Upgrades

THESE ARE TRANSMITTED AS CHECKED BELOW:

<input type="checkbox"/>	For approval	<input type="checkbox"/>	Approved as submitted	<input type="checkbox"/>	Resubmit copies for approval
<input type="checkbox"/>	For your use	<input type="checkbox"/>	Approved as noted	<input type="checkbox"/>	Submit ___ copies for distribution
<input type="checkbox"/>	As requested	<input type="checkbox"/>	Returned for corrections	<input type="checkbox"/>	Return ___ corrected prints
<input type="checkbox"/>	For your information	<input checked="" type="checkbox"/>	Signature		
<input type="checkbox"/>	For review and comment	<input type="checkbox"/>	For bids due:	<input type="checkbox"/>	Prints returned after loan to us

REMARKS:

Enclosed are two (2) originals of the Professional Services Agreement for the above-referenced project which have been signed by RH2. Please, sign both originals and return one to:

RH2 Engineering, Inc.
 ATTN: Accounting
 22722 29th Drive SE, Suite 210
 Bothell, WA 98021

COPY TO:	File and Accounting	SIGNED:	Geoff Dillard, PE
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City of Bonney Lake, Washington
City Council Agenda Bill (AB)

Department/Staff Contact: PW / Douglas Budzynski	Meeting/Workshop Date: 14 June 2016	Agenda Bill Number: AB16-87
Agenda Item Type: Resolution	Ordinance/Resolution Number: 2542	Councilmember Sponsor: Randy McKibbin

Agenda Subject: Award contract to RH-2 Engineering for services to complete design and programming efforts for SCADA System Upgrade - Phase 3

Full Title/Motion: A Resolution Of The City Council Of The City Of Bonney Lake, Pierce County, Washington, Authorizing A Contract Awarding The Professional Services Agreement To RH-2 Engineering, Inc To Complete The Design Effort And Programming Effort For SCADA System Upgrades - Phase 3.

Administrative Recommendation: Recommendation Approval

Background Summary: In November 2012, The City Council approved a PSA with RH-2 to complete a system upgrade analysis of the City's SCADA system for the Sewer and Water System. After reviewing RH-2's analysis, the PWD divided the upgrade efforts to the system into multiple phases. Phase 2 of the communications upgrades included Peaking Storage Site, LS-17, LS-13, LS-14, LS-20. The Contractor, Northeast Electric, has now completed the effort for phase 2. RH-2 has provided a SOW for design, construction services, and programming efforts for Phase 3 - SCADA System Upgrades. This phase will include SCADA System upgrades to Victor Falls Pump Station and Tacoma Point Wells Site. RH-2 Engineering has given the City a quote of \$62,976 for the PSA to complete the design, CS, and programming efforts.

Attachments: Resolution 2542, Contract, Map

BUDGET INFORMATION				
Budget Amount	Current Balance	Required Expenditure	Budget Balance	Fund Source
Water \$258,845.00	\$183,861.34	\$62,976.00	\$120,885.34	<input type="checkbox"/> General <input checked="" type="checkbox"/> Utilities <input type="checkbox"/> Other
Budget Explanation: 401.018.034.594.34.63.04 SCADA Telemetry Upgrades				
Revenue Source: Water SDCs				

COMMITTEE, BOARD & COMMISSION REVIEW			
Council Committee Review:	Finance Committee Date: 14 June 2016	<i>Approvals:</i>	Yes No
		Chair/Councilmember Randy McKibbin	<input type="checkbox"/> <input type="checkbox"/>
		Councilmember Dan Swatman	<input type="checkbox"/> <input type="checkbox"/>
		Councilmember Tom Watson	<input type="checkbox"/> <input type="checkbox"/>
	Forward to:	Consent Agenda:	<input type="checkbox"/> Yes <input type="checkbox"/> No
Commission/Board Review:			
Hearing Examiner Review:			

COUNCIL ACTION	
Workshop Date(s):	Public Hearing Date(s):
Meeting Date(s):	Tabled to Date:

APPROVALS		
Director:	Mayor:	Date Reviewed by City Attorney: (if applicable)