

City of Blaine
Request for Council Action
Meeting Date: September 25, 2023

Subject: Professional services award for the design of Wellfield Pump Station Project.

Department: Public Works

Prepared By: _____
(Digital Signature)

Agenda Location: Consent Agenda Council Action Unfinished Business

Action Needed:

City Council accept the proposal and authorize the City Manager to execute the contract with RH2 Engineering Inc.

Attachments:

1. RH2 Engineering Inc., proposal for the Wellfield Pump Station design.

Background/Summary:

The City Public Work's Department advertised a Request for Qualifications to select a service provider to provide professional engineering services for the design, bid and construction support for 'Wellfield Pump Station Project'. The Department received the qualifications from RH2 Engineering Inc., and David Evans & Associates the Braaksma Engineering. The evaluation team deemed the RH2 Engineering more competent with their experience and familiarity with similar projects.

The selected consultant will provide pre-design, design, bid support and construction support engineering services for the Wellfield Booster Pump Station Project. This pump station will supply water from the wellfield to the 440-zone Harvey Road reservoir to support the east Blaine growth.

Budget Implications: Current Budget New Budget Request Non-Budgetary

These services are already budgeted in the 2023 Water CIP under the 'Wellfield Pump Station' project.

Recommendation:

Public Works staff respectfully requests the City Council accept the proposal and authorize the City Manager to execute the Professional services with RH2 Engineering Inc.

Reviewed By:

City Manager _____ Finance Director _____ City Clerk _____
(Digital Signature) (Digital Signature) (Digital Signature)

EXHIBIT A
Scope of Work
City of Blaine
Wellfield 440 Zone Booster Pump Station
Predesign, Design, and Services During Bidding and Construction
September 2023

Background

Grandis Pond Blossom plans to develop an area of east Blaine to serve approximately 1,500 homes. To supply water to this development, the City of Blaine (City) will need a booster pump station (BPS) to fill the 440 Zone Reservoir that will supply this development. Additional pump stations in a future 530 Zone and 630 Zone, including a reservoir in the 630 Zone, also will be needed. This Scope of Work details the proposed Wellfield 440 Zone BPS to fill the existing 440 Zone Reservoir for the Grandis Pond Blossom development and growth within the City. The City has not identified this development in its 2019 *Water Comprehensive Plan* but will amend it to identify the Wellfield 440 Zone BPS, 530 Zone BPS, and 630 Zone BPS and reservoir.

The *630-Zone Booster Pump Station Project Report* (CHS Engineers, LLC, 2019) indicated that the development would contain 1,868 Equivalent Residential Units (ERUs) requiring 514 gallons per minute (gpm) for supply at Maximum Day Demand (MDD) and 1,000 gpm of fire flow, for a total of 1,514 gpm to serve the entire area. The Wellfield 440 Zone BPS will supply this area, as well as growth within the 440 Zone in the City. The City indicated that the Wellfield 440 Zone BPS needs to initially supply 350 gpm and have the capability of supplying a future capacity of 1,200 gpm.

The goal of this project is to have a new BPS to supply the 440 Zone to meet the needs of private development, provide bid-ready plans, specifications, and an Engineer's opinion of probable construction cost (OPCC) by spring 2024, and finish construction by the end of 2024, pending procurement timing of the pumps, motors, Motor Control Center (MCC), and emergency generator set. The City and the Washington State Department of Commerce will provide funding for this project. No construction constraints are affiliated by the funding.

Approach

The work for this project will be accomplished via the following Tasks.

- Task 1 – Project Management
- Task 2 – Cultural Resources Management and Critical Areas Review
- Task 3 – Hydraulic Analysis, Geotechnical Report, and 30-Percent Design
- Task 4 – 60-Percent Design Plans and Specifications
- Task 5 – 90-Percent Design Plans and Specifications
- Task 6 – DOH Project Report/Construction Documents and Permitting

- Task 7 – Bid-Ready Plans and Specifications
- Task 8 – Services During Bidding
- Task 9 – Services During Construction
- Task 10 – Supplemental Services Reserve Fund

Task 1 – Project Management

Objective: Manage RH2’s project team and maintain frequent client communications. Maintain project schedule and prepare monthly invoices and budget status summaries.

Approach:

- 1.1 Provide direction, coordination, and oversight to the RH2 project team. Organize, manage, and coordinate technical disciplines as described herein, and implement quality assurance and quality control (QA/QC).
- 1.2 Document and retain information generated during the execution of the project.
- 1.3 Prepare monthly invoices and budget status summaries.
- 1.4 Prepare for and attend progress meetings with the City as requested. Prepare meeting agenda and minutes. *A total of three (3) virtual progress meetings are assumed via Microsoft Teams or equivalent per the attached Fee Estimate, in addition to the other milestone and review meetings identified elsewhere in this Scope of Work.*
- 1.5 Create, maintain, and update a project design schedule. Monitor, modify, and update the project schedule throughout the design phase to determine potential impacts of proposed changes. Adjust the schedule to reflect the status of the project and revisions made to this Scope of Work.

Assumptions:

- *RH2 will rely upon the accuracy and completeness of any data, information, and materials generated or produced by the City or others in the furthering of this work. RH2 assumes the entity providing such information to RH2 is either the owner of such information or has obtained written authorization from the owner to distribute said information.*
- *RH2 will not provide hard copies of deliverables to the City. The documents will be provided in electronic PDF format.*
- *If additional progress meetings are required beyond what is outlined in this Task, the additional meetings will be covered under the Supplemental Services Reserve Fund. Upon exhaustion of the reserve, any further meetings will be addressed via an addendum to this Scope of Work.*

RH2 Deliverables:

- Monthly invoices and budget status summaries.
- Meeting agendas and minutes.
- Project schedule updates.

Task 2 – Cultural Resources Management and Critical Areas Review

Objective: Coordinate with ASM Affiliates, Inc., (ASM) to perform an on-site cultural resources management (CRM) study and critical areas review of the site. Coordinate with local authorities with jurisdiction and determine construction constraints, mitigation (if any), and permitting requirements.

Approach:

- 2.1 ASM will coordinate with local Tribes and Washington State Department of Archaeology and Historic Preservation (DAHP) to review available records for the site.
- 2.2 ASM will perform records review from DAHP and prepare an on-site CRM study. Complete a draft and final report and Inadvertent Discovery Plan (IDP). Submit draft report and IDP for review and approval by DAHP. Finalize report and IDP after DAHP review.
- 2.3 Perform critical areas review of any wetlands, streams, and buffer areas, if onsite or within buffer area. Complete draft Critical Areas Report (CAR).
- 2.4 Coordinate with Whatcom County (County) regarding CAR submittal. Revise and finalize CAR after meeting with County.

Assumptions:

- *The project schedule assumes that reviews by the City, County, Washington State Department of Health (DOH), DAHP, and local Tribes are performed in a timely manner and that no major changes are required to any submittal or design documents. No dates are warranted or implied for agency response.*
- *The City will be responsible for permit fees as required by the County and DAHP.*

RH2 Deliverables:

- Coordination and meeting with the County.
- Draft and final CAR.

ASM Deliverables:

- Draft and final IDP.
- Draft and final CRM report.

Task 3 – Hydraulic Analysis, Geotechnical Report, and 30-Percent Design

Objective: Finalize the design criteria for the proposed BPS, confirm that the proposed site can accommodate the BPS and an emergency generator, and generate system head curves to be used for the proposed pump selection. Document the proposed improvements and prepare preliminary design plans.

Approach:

- 3.1 Finalize the design criteria for the proposed Wellfield 440 Zone BPS and establish maximum initial (estimated at 350 gpm) and final capacity (1,200 gpm) and electrical sizing.
- 3.2 Perform steady-state hydraulic analyses to calculate the system head curve for the BPS and the net positive suction head available (NPSHA).
- 3.3 Prepare a Geotechnical Report consisting of two components: completion of site investigation work, and preparation of the technical report. The on-site elements will consist of the following:
 - Perform a preliminary site visit to mark the locate area in the field. *The locate area will be called in to One-Call utility locates.*
 - Coordinate the schedule with the City for the City operator and rubber-tired backhoe.
 - Complete one (1) day of test pits, up to four (4) in total. Two (2) test pits will be located near the proposed Wellfield 440 Zone BPS site, and two (2) test pits will be located at pipe location points nearby. Test pits will be excavated and backfilled using a City-provided operator and rubber-tired backhoe.

Prepare the technical report by reviewing well logs from previous studies and documenting on-site investigation work to determine foundation design and pipe trenching requirements related to excavation, dewatering, and bearing capacity. The report will include documentation of on-site investigation work and well logs obtained from the City. Prepare draft Geotechnical Report for review by the City. Revise report based on City comments and prepare final Geotechnical Report with Professional Engineer and Licensed Geologist stamps.

- 3.4 Coordinate with the City's selected preferred pump manufacturer, Whitney Equipment Company, Inc., (WECI) to review the design criteria and select pumps based on the system head curve and NPSHA.
- 3.5 Select a pump configuration based on findings. Identify the number and sizes of pumps, pump staging, and recommended operational setpoints. *Pumps will be operated using soft starts based on maintaining the 440 Zone Reservoir within existing operational ranges of approximately full to 10 feet below full, based on the 220 Zone with the same operational range.*
- 3.6 Meet with City staff to discuss the results of the pump selection analyses. Select a pump configuration to be used as the basis for the design of the system improvements. Discuss proposed improvements and phasing of future pump needs.

- 3.7 Review existing survey data drawings and coordinate with the City to confirm site layout. *It is assumed that the survey will be of sufficient scope to design the water main and connections in addition to the pump station.*
- 3.8 Prepare preliminary site plans to demonstrate the feasibility of the referenced BPS site.
- 3.9 Prepare preliminary water main alignment plan view exhibit for review with the City.

Assumptions:

- *RH2 will rely upon the accuracy and completeness of information, data, and materials generated or produced by the City, or others in relation to this Scope of Work, including the City's hydraulic model, AutoCAD survey of the site, and pump selection recommendations from WECL. RH2 assumes that the entity providing such information to RH2 is either the owner of such information or has obtained written authorization from the owner to distribute said information.*
- *The City can provide well logs for review to confirm on-site observation.*
- *The City will provide piping drawings and points of connection from the 171 Zone and the 440 Zone. It is assumed that the connection to the 220 Zone will be made at the 16-inch water main located in Pipeline Road and will require approximately 550 feet of water main to reach the connection point from the proposed BPS.*
- *The City's 171 Zone will become the 220 Zone by the time the proposed pump station is online. Therefore, the total discharge head required will be based on this vertical difference.*
- *The site is conducive to the construction of a single-story building, access road, and trenching for water and sewer utilities. The BPS will be constructed on the site and has adequate space for an approximate 1,000 square foot building or less and a generator with appropriate setbacks and access/parking.*
- *The City will provide an operator and rubber-tired backhoe for one (1) full workday.*
- *Piping connections will be within 600 feet of the pump station.*
- *The meeting to review pump selection will occur virtually using Microsoft Teams or equivalent.*

Provided by the City:

- Confirmation of final design criteria.
- City's current water system hydraulic model.
- Piping map of the proposed Harvey Road piping in AutoCAD 2018 format, including pipe size, location, and point of connection.
- Design level of quality topography survey in AutoCAD 2018 format, including pump station site, water main alignment, 171 Zone piping connection, 440 Zone piping connection,

right-of-way, property lines, above-grade and below-grade utilities, power drop location, all physical features, and two (2)-foot contours.

- Attendance at one (1) meeting to provide concurrence with the proposed pump selection.
- Sewer connection for the BPS location either by septic system located nearby or by allowing stormwater discharge of floor drains.

RH2 Deliverables:

- Geotechnical report for the BPS, access driveway, and on-site utilities.
- Design criteria and pump configuration.
- Attendance at one (1) meeting to provide concurrence with the proposed pump selection.
- Preliminary site plans and water main alignment plan view exhibit.

Task 4 – 60-Percent Design Plans and Specifications

Objective: Prepare 60-percent design plans and specifications that illustrate the proposed BPS, site work, structural work, mechanical connections, electrical and controls work, and related improvements.

Approach:

- 4.1 Coordinate with WECl to obtain design plans and sample specifications for the selected pumps.
- 4.2 Prepare 60-percent standard plans (i.e. cover sheet, indexes, vicinity map, general notes, and details).
- 4.3 Prepare a stormwater report for the project that meets Whatcom County Code (WCC) 20.80.630 and the most recent version of the Washington State Department of Ecology's *Stormwater Management Manual for Western Washington* as modified by WCC.
- 4.4 Prepare 60-percent site and utility plans and details including suction and discharge transmission mains to a connection point at the BPS within the well field.
- 4.5 Prepare structural calculations for a Building Permit for the BPS building.
- 4.6 Prepare 60-percent architectural and structural plans with details. *For the purposes of this Scope of Work, it is assumed that the proposed BPS will be an above-grade, single story, concrete masonry unit (CMU) building on a concrete foundation.*
- 4.7 Prepare 60-percent 220 Zone and 440 Zone water main plans. *Plans will be in plan view only and at 20 to 30 feet per inch scale. Each zone will include up to 600 feet of ductile iron pipe that is 12 inches in diameter.* Prepare 60-percent detail sheet for testing and connection.
- 4.8 Prepare 60-percent mechanical plans and details. *The mechanical plans prepared under this subtask are to match closely with the City's PS4R project. Floor drains will connect to sewer.*

- 4.9 Review pumps, heaters, and control equipment and size a generator based on peak capacity of about 1,200 gpm.
- 4.10 Prepare 60-percent electrical and control plans and details, including an emergency generator.
- 4.11 Coordinate with and submit plans to the City and/or Braaksma Engineering, Inc., (Braaksma Engineering) for review of power requirements. Meet with the City to discuss project details.
- 4.12 Develop technical specifications using RH2's facility technical specifications tailored for this project. Develop front end specifications from City provided MS Word templates.
- 4.13 Develop schedule of prices, measurement and payment descriptions, and an OPCC.
- 4.14 Perform internal QA/QC review of the 60-percent plans, specifications, and OPCC.
- 4.15 Produce and submit the 60-percent plans, specifications, and OPCC to the City for review and comment.
- 4.16 Attend one (1) review meeting with the City at the Public Works building to discuss review comments.

Assumptions:

- *The parcel where the pump station will be located is assumed to be of low land use intensity. It is assumed that the total new plus replaced hard surface will be less than 7,000 square feet (sf) and there will be less than 14,000 sf of land disturbance for the pump station and all related site work. Therefore, per WCC 20.80.630, Minimum Requirements (MR) 1, 2, 4, and 8 will be the only applicable minimum requirements for the stormwater report.*
- *Piping connections will be within 600 feet of the BPS for suction (220 Zone) and discharge (440 Zone) points of connection.*
- *The City and Braaksma Engineering are the power system owner and designer, respectively. Braaksma Engineering will perform under separate contract directly with the City.*
- *Non-technical specifications such as general conditions, construction contract documents, and bid forms will be provided by the City in an editable format.*
- *OPCCs are provided as a representation of RH2's best judgement as a design professional and are supplied as guidance to the City. RH2 has no control over the cost of labor and materials, or market conditions, and does not guarantee the accuracy of OPCCs as compared to actual bids or cost of construction.*

Provided by the City:

- Front end specifications in MS Word format.
- Power drop planning coordination.
- Plans and specifications review and participation in the 60-percent review meeting.

RH2 Deliverables:

- Stormwater report.
- Structural calculations.
- 60-percent design plans, technical specifications, and OPCC emailed to the City.
- Attendance at one (1) review meeting with the City.

Task 5 – 90-Percent Design Plans and Specifications

Objective: Prepare 90-percent design plans and specifications incorporating the results of other tasks and review comments on the 60-percent design from City staff.

Approach:

- 5.1 Address the City’s 60-percent plan review comments. Develop the design plans and details to the 90-percent design level.
- 5.2 Address the City’s 60-percent specification review comments. Develop the technical and front end specifications to the 90-percent design level for equipment, materials, and construction tasks.
- 5.3 Update the OPCC to a 90-percent design level based on bid results from previous projects, information supplied by material vendors, and similar projects adjusted for anticipated bidding conditions.
- 5.4 Produce and submit 90-percent plans and specifications to the City for review and comment.
- 5.5 Develop supervisory control and data acquisition (SCADA) design to determine communication between the proposed BPS and City public works.
- 5.6 Attend one (1) review meeting with the City at the Public Works building to discuss review comments.

Provided by the City:

- Plans and specifications review and participation in the 90-percent review meeting.

RH2 Deliverables:

- 90-percent design plans, technical specifications, and OPCC emailed to the City.
- Attendance at one (1) review meeting with the City.

Task 6 – DOH Project Report/Construction Documents and Permitting

Objective: Prepare and submit, on behalf of the City, a project report and subsequent construction documents to DOH.

Approach:

- 6.1 Prepare and submit the project report and construction documents to DOH based on applicable Washington Administrative Code requirements. Document the background of the project, objectives, BPS recommendations, design criteria, schedule, and cost estimates. Submit to DOH for review and comment.
- 6.2 Respond to DOH comments by letter to help obtain project report approval, if requested.
- 6.3 Prepare Building Permit application (including plans and incorporating structural calculations from Task 4) and submit to the County for review.
- 6.4 Attend one (1) meeting with the County to review comments.
- 6.5 Address comments and resubmit application to the County for Building Permit approval.

Assumptions:

- *The City will pay all permit fees directly to DOH and the County.*
- *Only one (1) review by DOH and the County will be required to obtain the necessary permits to proceed to construction.*
- *No date is warranted or implied for agency response or approval.*

Provided by the City:

- Permit application fees.

RH2 Deliverables:

- DOH project report and construction documents emailed to DOH contacts.
- Letter response to DOH comments, if requested.
- County Building Permit forms and supplementary documents.
- Attendance at one (1) meeting with the County.

Task 7 – Bid-Ready Plans and Specifications

Objective: Prepare bid-ready design plans and specifications and produce bid-ready documents for the BPS project.

Approach:

- 7.1 Prepare bid-ready design plans, details, technical specifications, and front end specifications per the 90-percent review comments from the City.

7.2 Prepare the bid-ready OPCC and provide to the City.

7.3 Produce and submit bid-ready documents to the City and a plan center for the purpose of bidding.

RH2 Deliverables:

- Bid-ready plans, specifications, and OPCC.

Task 8 – Services During Bidding

Objective: Assist the City with the bidding process. *It is assumed that there will be one (1) bid package, award, and schedule for the project.*

Approach:

8.1 Prepare, compile, and deliver one (1) complete set of plans and specifications to Applied Digital Imaging for production and WCR Publications for publication via the internet. *Production costs are not part of this Scope of Work but will be billed to the City by Applied Digital Imaging and WCR Publications directly.*

8.2 Assist the City in responding to contractor or supplier questions during a three (3)-week bidding period.

8.3 Issue up to one (1) addendum, if requested, to clarify, revise, or change construction plans, technical specifications, or project conditions during the bidding process.

8.4 Attend one (1) joint pre-bid walkthrough on site. Introduce the project to prospective bidders, answer questions verbally, and add clarifications to the addendum as needed.

8.5 Attend one (1) bid opening in person at the City Public Works office.

Provided by the City:

- Attendance at the pre-bid walkthrough and bid opening.
- Preparation of the advertisement, coordination with publications for the public advertisement, and payment of fees. *It is recommended that the project be advertised in the Bellingham Herald, Daily Journal of Commerce, and WCR Publications.*
- Payment of all production fees to Applied Digital Imaging for three (3) RH2 copies, District copies, and construction sets. *Bid sets can be paid for by bidding contractors.*
- WCR Publications will distribute construction documents and addendum to prospective bidders. City to pay any distribution-related fees.
- Responses to bidder questions as primary recipient and routing questions as needed to RH2.
- Maintenance of plan holders list utilizing WCR Publications.
- Preparation of the bid tabulation.
- Review of bidder information and verification of bidder responsibility and responsiveness.

- Preparation of notice of intent to award letter to contractor.
- Preparation of the construction contract and execution with the contractor.

RH2 Deliverables:

- One (1) complete set of plans and specifications.
- Responses to contractor or supplier questions via email and phone.
- Up to one (1) addendum.
- Attendance at pre-bid walkthrough and bid opening.

Task 9 – Services During Construction

Objective: Provide near full-time on-site construction observation services, review documentation associated with construction, and develop record drawings.

Approach:

- 9.1 Provide construction contract administration. This includes providing a pre-construction agenda, attendance at the pre-construction meeting, providing meeting minutes, and monthly correspondence with the contractor and the City regarding construction schedule and meeting attendance.
- 9.2 Review requests for information (RFIs), change orders, shop drawings, monthly progress payments, and catalog submittals.
- 9.3 Provide on-site construction observation, including construction observation reports for active construction. *Construction observation is assumed to be four (4) months at twenty-five (25) hours per week, including travel time four days a week.*
- 9.4 Provide SCADA software development for the control of two (2) pumps for filling the 440 Zone Reservoir, including alarms for pump station operation.
- 9.5 Attend testing and startup of pumps, motors, generator, and control systems, including up to five (5) days on site.
- 9.6 Perform punch list observations to document progress toward construction completion meeting the requirements of the plans and specifications. *Punch list review will consist of three (3) site visits lasting two (2) hours each and conveying an updated punch list to the contractor as a Microsoft Word document.*
- 9.7 Review field records and revise construction contract drawings to prepare record drawings. Provide construction record drawings to the City at project closeout.

Assumptions:

- *RH2 is not responsible for site safety, for determining means and methods, or for directing the contractor in their work.*

- *RH2 will perform the services described up to the amounts included in the attached Fee Estimate. If additional effort is needed, that extra work will be mutually determined by the City and RH2.*
- *Construction duration is eighteen (18) months with four (4) months of active work. The procurement period is assumed to be fourteen (14) months.*
- *The construction contractor is well versed in municipal construction of water pump stations and water mains. In addition, the construction team will include an electrician and SCADA panel installer with significant municipal construction experience. Construction phase services defined in this Task are variable in nature and depend in part on the contractor awarded the project. RH2's Fee Estimate is based upon an experienced and reasonable contractor being awarded the construction contract.*

Provided by the City:

- Payment for construction plan production by others.
- Payment of power drop costs and coordination with contractor during construction.
- Part-time construction observation personnel to monitor construction progress and respond to questions relating to existing facilities and utilities.
- Minor comments during the submittal process.
- Contract with and pay for special inspections including concrete testing, rebar inspection, subgrade visual and compaction inspection, hot mixed asphalt compaction, grout cube, CMU prism, and structural connections.
- Attendance at the following:
 - Pre-construction meeting;
 - Monthly construction meetings;
 - Part-time on-site construction observation during active construction;
 - Testing and startup; and
 - Final project punch list site visit walkthrough.

RH2 Deliverables:

- Attendance at and meeting agendas and minutes for the following:
 - Pre-construction meeting;
 - Monthly construction meetings ;
 - Near full-time construction observation;
 - Testing and startup; and
 - Final project punch list site visit walkthrough.

- RFI and submittal responses.
- Change order forms.
- Monthly progress payments.
- Construction observation reports.
- SCADA system programming.
- Punch list.
- Construction record drawings.

Task 10 – Supplemental Services Reserve Fund

Objective: Provide additional services as requested by the City of Blaine.

Approach:

10.1 Provide additional services as may be requested and authorized by the City. Submit a level of effort estimate for supplemental services requested by the City. The City will provide written authorization to proceed with any supplemental services.

Assumptions:

- *Work under supplemental services will not be performed without written authorization from the City. The level of effort for supplemental services is subject to change via mutual agreement between the City and RH2.*
- *The City acknowledges that additional services requested may negatively impact the existing project schedule.*
- *The value provided is approximately 5 percent of the contract.*

RH2 Deliverables:

- Level of effort estimate for supplemental services.
- Other deliverables as requested by the City under the authorization for supplemental services.

Assumed Estimated Project Schedule

- Project Start – October 2023
- Bid-Ready Plans – June 2024
- Start Construction – July 2024
- Construction Completion – February 2026 (based on the following City procurement timeline)
 - Pump and Motor Procurement – Six (6) months
 - Generator Procurement – Eighteen (18) months
 - MCC Procurement – Fourteen (14) months

EXHIBIT B

Fee Estimate

City of Blaine

Wellfield 440 Zone Booster Pump Station

Pre-design, Design, Bidding, and Construction

Sep-23

| Description | Total Hours | Total Labor | Total Subconsultant | Total Expense | Total Cost |
|---|-------------|-------------------|---------------------|------------------|-------------------|
| Task 1 Project Management | 47 | \$ 11,005 | \$ - | \$ 220 | \$ 11,225 |
| Task 2 Cultural Resources Management and Critical Areas Review | 86 | \$ 17,962 | \$ 11,000 | \$ 348 | \$ 29,310 |
| Task 3 Hydraulic Analysis, Geotechnical Report, and 30-Percent Design | 200 | \$ 42,086 | \$ - | \$ 3,188 | \$ 45,274 |
| Task 4 60-Percent Design Plans and Specifications | 462 | \$ 92,707 | \$ - | \$ 8,196 | \$ 100,903 |
| Task 5 90-Percent Design Plans and Specifications | 198 | \$ 39,419 | \$ - | \$ 3,761 | \$ 43,180 |
| Task 6 DOH Project Report/Construction Documents and Permitting | 125 | \$ 25,022 | \$ - | \$ 2,329 | \$ 27,351 |
| Task 7 Bid-Ready Plans and Specifications | 68 | \$ 13,674 | \$ - | \$ 1,218 | \$ 14,892 |
| Task 8 Services During Bidding | 55 | \$ 11,380 | \$ - | \$ 875 | \$ 12,255 |
| Task 9 Services During Construction | 987 | \$ 186,867 | \$ - | \$ 20,720 | \$ 207,587 |
| Task 10 Supplemental Services Reserve Fund | - | \$ - | \$ - | \$ 25,000 | \$ 25,000 |
| PROJECT TOTAL | 2228 | \$ 440,122 | \$ 11,000 | \$ 40,856 | \$ 516,978 |

EXHIBIT C
RH2 ENGINEERING, INC.
2023 SCHEDULE OF RATES AND CHARGES

| RATE LIST | RATE | UNIT |
|---------------------------|-------------|---|
| Professional I | \$167 | \$/hr |
| Professional II | \$183 | \$/hr |
| Professional III | \$207 | \$/hr |
| Professional IV | \$223 | \$/hr |
| Professional V | \$240 | \$/hr |
| Professional VI | \$255 | \$/hr |
| Professional VII | \$274 | \$/hr |
| Professional VIII | \$284 | \$/hr |
| Professional IX | \$284 | \$/hr |
| Technician I | \$131 | \$/hr |
| Technician II | \$143 | \$/hr |
| Technician III | \$158 | \$/hr |
| Technician IV | \$174 | \$/hr |
| Technician V | \$191 | \$/hr |
| Technician VI | \$208 | \$/hr |
| Technician VII | \$226 | \$/hr |
| Technician VIII | \$238 | \$/hr |
| Administrative I | \$86 | \$/hr |
| Administrative II | \$100 | \$/hr |
| Administrative III | \$121 | \$/hr |
| Administrative IV | \$143 | \$/hr |
| Administrative V | \$162 | \$/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 | 0.00% | % of Direct Labor |
| Mileage | \$0.6550 | price per mile (or Current IRS Rate) |
| Subconsultants | at cost | |
| Outside Services | at cost | |

Rates listed are adjusted annually.