



December 22, 2014

Mr. Andy Hummel, P.E.
City of Sparks Public Works
431 Prater Way
Sparks, NV 89431

**RE: PUMP STATION UPGRADE – PROPOSAL
SPARKS MARINA PUMP STATIONS
SPARKS, NEVADA**

Andy,

Thank you for the opportunity to work with you on the Marina Pump Station Modifications. Please accept our proposal for the Sparks Marina Pump Station Modifications Plans and Specifications.

Our proposed services will include plans, specifications and cost estimates for modifications to the marina discharge pump station as described below. We anticipate making progress submittals at the 50%, 90% and final stages. In addition, we will provide support services during the bidding process and during construction.

Our team will include Jensen Engineers for electrical and controls, and K2 Structural Engineers for the pump pedestal and building.

The Marina Pump Station project is anticipated to include the following improvements:

1. **Lower pump station intake** - The existing pump station intake screen lies just below the surface of the water. Because of this, the intake becomes a site for algae and moss to grow impacting the intakes performance and increasing maintenance. The intake will be relocated into deeper water reducing the potential for algae and moss.
2. **Pump Station Upgrades** – The existing pump station consists of three pumps located in a fenced area. The pump station currently pumps to the de-nitrification plant on the south side of I-80. The pump station upgrades will include multiple improvements:
 - a. **Pumps** – The three pump configuration will be changed to two(2) pumps with higher individual capacity. The pumps will be sized to match the treatment capacity of the de-nitrification plant, approximately 2000 gpm. The pumps will be set up to alternate starts and may be operated individually during normal operations or together during high water level situations and a higher discharge rate is desired. Preliminary sizing estimates the new pumps at 40HP each.
 - b. **Pump Pedestal** – the existing concrete pump pedestal is deteriorating and it will be replaced as part of this work

- c. **Manifold and valve modifications** –A new piping manifold will be needed to accommodate the higher flow rates and to reflect the new two pump configuration. In addition, the pump station modifications will deliver water to the de-nitrification plant during normal operation or discharge to the south east corner of the marina in high water situations when the a higher pumping rate from the lake is needed. The pipe from the pump station to the discharge point exists but new manifolding and valves are necessary to allow for automatic operation of the system.
 - d. **Electrical** – The pump station improvements will include new motor starters and power modifications to accommodate the new automatic control valves. Electrical scope will include a new SCADA/RTU/PLC . System will also tie existing and new pressure gauges switches, flowmeters, valves, level indicators, etc.
 - e. **Building** – The pump station modifications will include a building to house the pump and electrical equipment. It is anticipated that the building will be CMU and painted to match the existing restroom facilities nearby. The building will include roof hatches to allow removal of the pumps for maintenance.
3. **Remove existing floating pump station** - The plans and specifications will include direction to the contractor to decommission the existing emergency flow pump station.
 4. **Environmental Review** – we will meet with NDEP to determine if there are any discharge concerns from the State’s perspective. A fuller scope may be needed once we meet with the agency and if additional work is needed.

Our Fee Estimate is as Follows:

Task 1: Pumpstation Modifications Plans including Intake, Pumps and Building: includes surveying, engineering, electrical and structural	\$ 42,000 LS
Task 2: NDEP Coordination	\$ 1,500 T&M
Task 3: Contract Documents and Bidding Support	\$ 4,500 T&M
Task 4: Demolition Plans and Specifications	\$ 4,500 T&M
Task 4: Reproducibles	\$ 1,000 T&M
TOTAL	\$ 53,500 LS/TM

Special Conditions & Items needed:

1. Our proposal is based on a logical sequence of design and construction. One set of improvement plans and final map will be prepared as proposed above.
2. Client is responsible for obtaining any required off-site right of entries, easements or right-of-way. Wood Rodgers will prepare easement descriptions and plat maps as needed for Client processing if required, on a time and materials basis.
3. Any cost estimates prepared represent preliminary amounts that are subject to change. Wood-Rodgers, Inc. will not assume responsibility for the use of these costs in budget analysis or be held liable for potential development cost increases associated with the development of this project.
4. Client understands that the T&M estimated costs provided herein are estimates only, that our work will be performed on a time & materials basis, task budgets will not be exceeded without prior written authorization from the client
5. All submittal, plan check and processing fees to be paid by the client.

6. Our proposal is based on knowledge of the project at its current status. The client is responsible for payment of all agency fees. Copying, Blueprinting and Reprographics will be billed at cost.

We believe this proposal accurately defines the scope of work as outlined and requested by you. We have included Exhibit "B", an hourly rate Fee Schedule for Time and Materials work and for Client requested changes.

Our proposal is based on knowledge of the project at its current status. Thank you for the continued opportunity to work with you. We are confident we will provide the quality and timeliness of professional services needed to make this a successful project. Should you have any questions or require additional information, please contact our office.

Please let me if you have any questions.

Sincerely,



Steve Strickland, P.E.
Vice President

EXHIBIT "B"

RENO FEE SCHEDULE
Effective January 1, 2015

CLASSIFICATION	STANDARD RATE
Principal Engineer/Geologist/Surveyor/Planner/LA* II	\$195
Principal Engineer/Geologist/Surveyor/Planner/LA* I	\$170
Associate Engineer/Geologist/Surveyor/Planner/GIS/LA* III	\$160
Associate Engineer/Geologist/Surveyor/Planner/GIS/LA* II	\$150
Associate Engineer/Geologist/Surveyor/Planner/GIS/LA* I	\$140
Engineer/Geologist/Surveyor/Planner/GIS/LA* III	\$125
Engineer/Geologist/Surveyor/Planner/GIS/LA* II	\$115
Engineer/Geologist/Surveyor/Planner/GIS/LA* I	\$105
Assistant Engineer/Planner	\$95
CAD Technician III	\$105
CAD Technician II	\$95
CAD Technician I	\$85
Project Coordinator	\$85
Administrative Assistant	\$65
Construction Project Manager	\$120
Inspector III	\$105
Inspector II	\$90
Inspector I	\$80
Field/Lab Technician IV	\$140
Field/Lab Technician III	\$95
Field/Lab Technician II	\$85
Field/Lab Technician I	\$75
1 Person Survey Crew**	\$125
2 Person Survey Crew**	\$170
3 Person Survey Crew**	\$230
Consultants, Outside Services, Materials & Direct Charges	Cost Plus 10%
Overtime Work	Rate Plus 50%

*LA = Landscape Architect

** Survey rate subject to change March 1, 2015, pending Union contract negotiations.

Blueprints, reproductions, and outside graphic services will be charged at vendor invoice. Auto mileage will be charged at the IRS standard rate, currently 56 cents per mile. Fee Schedule subject to change January 1, 2016.