

**CITY OF FIFE PROFESSIONAL SERVICES AGREEMENT**

**1. Parties and Date.** THIS Agreement is made effective as of the 27<sup>th</sup> day of November 2013 by and between CITY OF FIFE, WASHINGTON ("City") and \_\_\_\_\_ ("Consultant").

CITY OF FIFE, WASHINGTON ("CITY")

5411 23<sup>rd</sup> Street East

Fife, WA 98424

Contact: David K. Zabell

Phone: 253-922-2489

Fax: 253-922-5355

and

Tetra Tech Inc. ("CONSULTANT")

1420 5<sup>th</sup> Ave, Suite 600

Seattle, WA 98101

Contact: Bruce Gravette

Phone: (206) 883-9382

Fax: (206) 883-9301

Email: Bruce.gravette@tetratech.com

Tax ID No.: 95-4148514

**2. General Purpose and Intent.**

A. Rehabilitate PS-10 to include new pumps and pump control system, higher capacity 460V electrical service with weather cover, new wetwell cover slab with full width hatch for efficient pump removal, new valve vault with full width hatch, new junction box for connections to submersible cables from wetwell, new epoxy coating for the wetwell and exposed piping.

**3. Services by Consultant.**

A. Consultant shall perform the services described in the Scope of Work attached hereto as Exhibit "A" (the "Scope of Work"). The services performed by the Consultant shall not exceed the Scope of Work without prior written authorization from the City.

B. The City may from time to time require changes or modifications in the Scope of Work. Such changes, including any decrease or increase in the amount of compensation, shall be agreed to by the parties and incorporated in written amendments to the Agreement.

**4. Schedule of Work.**

A. Consultant shall perform the services described in the Scope of Work in accordance with the schedule attached hereto as Exhibit "B." If delays beyond Consultant's reasonable control occur, the parties will negotiate in good faith to determine whether an extension is appropriate.

  
\_\_\_\_\_  
CITY

  
\_\_\_\_\_  
CONSULTANT

B. Consultant is authorized to proceed with the services described in the Scope of Work upon receipt of a written Notice to Proceed.

**5. Compensation.**

LUMP SUM. Compensation for the services described in the Scope of Work shall be a Lump Sum of \$\_\_\_\_\_.

**X** TIME AND MATERIALS NOT TO EXCEED. Compensation for the services described in the Scope of Work shall not exceed \$108,200 without written authorization and will be based on the list of billing rates and reimbursable expenses attached hereto as Exhibit "C."

TIME AND MATERIALS. Compensation for the services described in the Scope of Work shall be on a time and material basis according to the list of billing rates and reimbursable expenses attached hereto as Exhibit "C."

OTHER. \_\_\_\_\_

**6. Coordination of Contract Documents.** This Agreement consists of this professional services agreement form and Exhibits "A" through "C." If there is any inconsistency between this professional services agreement form and any of the Exhibits, the professional services agreement form shall take precedence.

**7. Payment.**

A. Consultant shall provide monthly invoices in the format acceptable to the City for work performed to the date of invoice. Consultant shall maintain time and expense records for reimbursable expenses and any work that is billed hourly under this Agreement and provide them to the City upon request.

B. All invoices shall be paid by City warrant within sixty (60) days of receipt of a proper invoice.

C. Consultant shall keep cost records and accounts pertaining to this Agreement available for inspection by City representatives for three (3) years after final payment unless a longer period is required by a third-party agreement. Copies shall be made available on request.

D. If the services rendered do not meet the requirements of the Agreement, Consultant will correct or modify the work to comply with the Agreement. City may withhold payment for such work until the work meets the requirements of the Agreement.

**8. Discrimination and Compliance with Laws.**

A. Consultant agrees not to discriminate against any employee or applicant for employment or any other person in the performance of this Agreement because of race, creed, color, national origin, marital status, sex, age, disability, or other circumstance prohibited by federal, state, or local law or ordinance, except for a bona fide occupational qualification.

  
\_\_\_\_\_  
CITY

  
\_\_\_\_\_  
CONSULTANT

B. Consultant shall comply with all federal, state, and local laws and ordinances applicable to the work to be done under this Agreement.

C. Consultant shall obtain a City of Fife business license pursuant to the provisions of Chapter 5.01 FMC prior to receipt of written Notice to Proceed.

D. Violation of this Paragraph 8 shall be a material breach of this Agreement and grounds for cancellation, termination, or suspension of the Agreement by City, in whole or in part, and may result in ineligibility for further work for City.

## 9. Term and Termination of Agreement

A. This Agreement may be terminated by the City at any time upon the default of the Consultant or upon public convenience, in which event all finished or unfinished documents, reports, or other material or work of Consultant pursuant to this Agreement shall be submitted to City, and Consultant shall be entitled to just and equitable compensation for any satisfactory work completed prior to the date of termination, not to exceed the total compensation set forth herein. Consultant shall not be entitled to any reallocation of cost, profit or overhead. Consultant shall not in any event be entitled to anticipated profit on work not performed because of such termination. Consultant shall use its best efforts to minimize the compensation payable under this Agreement in the event of such termination. If the Agreement is terminated for default, the Consultant shall not be entitled to receive any further payments under the Agreement until all work called for has been fully performed. Any extra cost or damage to the City resulting from such default(s) shall be deducted from any money due or coming due to the Consultant. The Consultant shall bear any extra expenses incurred by the City in completing the work, including all increased costs for completing the work, and all damage sustained, or which may be sustained by the City by reason of such default.

B. The City may suspend this Agreement, at its sole discretion, upon one week's advance notice to Consultant. Such notice shall indicate the anticipated period of suspension. Any reimbursement for expenses incurred due to the suspension shall be limited to the Consultant's reasonable expenses, and shall be subject to verification. The Consultant shall resume performance of services under this Agreement without delay when the suspension period ends.

**10. Standard of Care.** Consultant represents and warrants that it has the requisite training, skill and experience necessary to provide the services under this agreement and is appropriately accredited and licensed by all applicable agencies and governmental entities. Services provided by Consultant under this agreement will be performed in a manner consistent with that degree of care and skill ordinarily exercised by members of the same profession currently practicing in similar circumstances.

## 11. Ownership of Work Product.

A. All data materials, reports, memoranda, and other documents developed under this Agreement whether finished or not shall become the property of City, shall be forwarded to City at its request and may be used by City as it sees fit. Upon termination of this agreement pursuant to paragraph 9 above, all finished or unfinished documents, reports, or other material or work of Consultant pursuant to this Agreement shall be submitted to City. City agrees that if it uses products prepared by Consultant for

  
\_\_\_\_\_  
CITY

  
\_\_\_\_\_  
CONSULTANT

purposes other than those intended in this Agreement, it does so at its sole risk and it agrees to indemnify and hold Consultant harmless therefore.

B. Spatial data created by consultants for City of Fife via this contract should be delivered as either ESRI shapefiles or an ESRI file geodatabase. The data should be developed in (or projected to) StatePlane 1983, WA South (Projection), NAD83HPGN (Datum), US Survey Feet (units). These datasets should be delivered on CD/DVD, complete with any projection files, accessory tables relatable by a fixed unique identifier to the spatial data, and metadata using Federal Geographic Data Committee (FGDC) specifications. If the data is produced in AutoCad 2000 or later, the shapefile format is an export option and should be utilized and all other criteria still apply. The City of Fife retains ownership to such data layers produced using taxpayer dollars and controls any future dissemination or reuse of this data.

**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 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. Should a court of competent jurisdiction determine that this Agreement is subject to RCW 4.24.115, then, 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.

**13. Insurance.** The Consultant shall procure and maintain for the duration of this 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. Consultant's maintenance of insurance as required by this Agreement shall not be construed to limit the liability of the Consultant to the coverage provided by such insurance, or otherwise limit the City's recourse to any remedy available at law or in equity.

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.

  
\_\_\_\_\_  
CITY

  
\_\_\_\_\_  
CONSULTANT

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 Consultant's Automobile Liability and Commercial General Liability insurance policies are to contain, or be endorsed to contain that they 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 Contractor's insurance and shall not contribute with it.

**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**

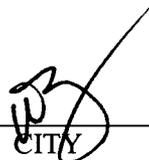
Consultant shall furnish the City with original certificates and a copy of the amendatory endorsements, including but not necessarily limited to the additional insured endorsement, evidencing the insurance requirements of the Consultant before commencement of the work.

**F. Notice of Cancellation**

The Consultant shall provide the City with written notice of any policy cancellation, within two business days of their receipt of such notice.

**G. Failure to Maintain Insurance**

Failure on the part of the Consultant to maintain the insurance as required shall constitute a material breach of contract, upon which the City may, after giving five business days notice to the Consultant to correct the breach, immediately terminate the contract or, at its discretion, procure or renew such insurance and pay any and all premiums in connection therewith, with any sums so expended to be repaid to the City on demand, or at the sole discretion of the City, offset against funds due the Consultant from the City.

  
CITY

  
CONSULTANT

**14. Assigning or Subcontracting.** Consultant shall not assign, transfer, subcontract or encumber any rights, duties, or interests accruing from this Agreement without the express prior written consent of the City, which consent may be withheld at the City's sole discretion.

**15. Independent Contractor.** Consultant is and shall be at all times during the term of this Agreement an independent contractor.

**16. Notice**

A. Any notice or communication required by this Agreement must be in writing, and may be given either personally, electronically with evidence of receipt, by express delivery service, or by registered or certified mail, return receipt requested. If given personally, by express delivery service, or by registered or certified mail, such notice or communication shall be deemed to have been given and received upon actual receipt. If delivery is made electronically, either by e-mail or facsimile transmission, a notice shall be deemed to have been given when delivered to the person to whom it is addressed, and there is electronic confirmation that it was received. Such notices or communications shall be given to the Parties at their addresses set forth below:

David K. Zabell  
City Manager  
5411 23<sup>rd</sup> Street East  
Fife, WA 98424

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Phone: 253 922-2489  
Fax: 253 922-5355

Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
Email: \_\_\_\_\_

Email: dzabell@cityoffife.org

B. Either party may change its contact information by sending its new contact information to the other party in the same manner as is provided for sending the other party notice under the provisions of paragraph 16.A.

**17. Disputes.** Any action for claims arising out of or relating to this Agreement shall be governed by the laws of the State of Washington. Venue shall be in Pierce County Superior Court.

**18. Attorneys Fees.** In any suit or action instituted to enforce any right granted in this Agreement, the substantially prevailing party shall be entitled to recover its costs, disbursements, and reasonable attorneys fees from the other party.

**19. Extent of Agreement/Modification.** This Agreement, together with attachments or addenda, represents the entire and integrated Agreement between the parties hereto and supersedes all prior negotiations, representations, or agreements, either written or oral. This Agreement may be amended, modified or added to only by written instrument properly signed by both parties.

CITY OF FIFE, WASHINGTON

CONSULTANT

By:   
David Zabell  
City Manager

Tetra Tech, Inc

By: 

Date: 11/27/13

Name: Stephen C. Wagner

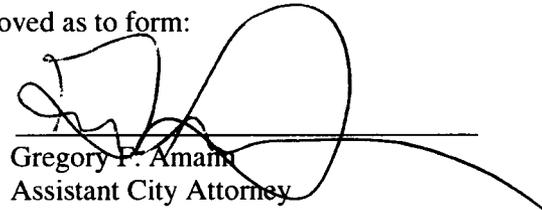
Attest:

Title: Executive Vice President

By:   
for Carol Etgen  
City Clerk

Date: \_\_\_\_\_

Approved as to form:

By:   
Gregory F. Amann  
Assistant City Attorney

 CITY       CONSULTANT



**Exhibit A,  
Scope of Services  
PS-10 Rehabilitation**

This scope of services is for engineering services to support the rehabilitation of PS-10, constructed in 1981, and located on Industry Drive East. The scope and description of this project is discussed in the technical memorandum that was prepared by Tetra Tech on this subject (PS-10 Rehabilitation Scope Description and Project Budget Estimate, 9/6/2013). Briefly, this project includes the following elements:

- Replace the existing pumps with more dependable and higher capacity pumps.
- Replace the existing cover slab over the wetwell with a cast-in-place slab that includes a large aluminum hatch for efficient access to the sewage pumps.
- Upgrade the existing valve vault to improve personnel access and drainage from the vault (See the discussion below).
- Replace the station electrical system with a higher capacity, 460 V, 3 phase system.
- Provide a weather cover over the electrical equipment to protect and help support this equipment.
- Provide an easily accessible junction box for the electrical connections with the submersible cables from the wetwell.
- Coat the existing wetwell and exposed ductile iron piping per the current coating specification included in the ongoing Wetwell Coating Rehabilitation Project.

The PS-10 Rehabilitation Scope Description and Project Budget Estimate TM did not fully address the following items, so further explanation is provided below.

Replace the Existing Valve Vault. The referenced TM discussed the possibility of replacing, rather than modifying, the existing valve vault. The replacement option is higher cost from a construction as well as a design standpoint, however this would greatly improve equipment access, as well as drainage from the vault. The primary disadvantage of this option (other than cost) is the need for an air-vac (air release and vacuum relief) valve due to the raised piping in the shallower vault. However, the City has a number of air-vac valves in its conveyance system, so this does not appear to be a major concern. City workers have requested that the vault be replaced, rather than modified. It is anticipated that the air release and vacuum relief valve will be located above grade in a fiberglass enclosure on a small concrete pad, similar to the air-vac valves installed at high points along the forcemains in the 2001 Forcemains and Gravity Sewers Contract.

Enlarge Existing Permanent Easement for PS-10. The referenced TM did not address the size of the existing easement, which is believed to be just big enough to include the existing pump station, valve vault, and the support structure for the electrical equipment (approximately 10 ft x 30 ft). The proposed layout of the rehabilitated pump station (included in the referenced TM) shows that the electrical equipment will be moved to the center of the landscaped area, to provide adequate room for the new equipment, as well as the weather cover. Also, the new cover slab for the wetwell will extend beyond the boundary of the existing easement, and the new air-vac valve will be located outside of the existing easement. It appears that the existing easement should be enlarged to include the entire width of the landscaped area (20 ft), and extended approximately 10 ft beyond the western end of the existing valve vault. This would provide an easement of approximately 20 ft x 40 ft. It is assumed that the City will acquire this additional easement area prior to advertising this project.

Additional engineering support for the two items above was not included in the budget that was submitted to the City in the PS-10 Rehabilitation Project TM and Fact Sheet (9/6/2013), and reflected in Exhibit C. Tetra Tech will make every effort to accomplish the above scope increases within this budget.

### **Task 100, Project Management**

- Prepare monthly invoices and progress reports.
- Manage the project team, including subconsultants (i.e., Greenman-Pedersen, Inc.).
- Coordinate with the City on project progress, as well as on issues that require City input or actions.
- Review all project deliverables, including plans and specifications, for technical accuracy and overall quality.

#### Assumptions:

- The billing rates shown in Exhibit C are based on a multiplier of 3.15 times hourly wages for each individual working on the project. The total Tetra Tech charges under this contract will not exceed the total shown in Exhibit C unless supplemental funds are provided via a contract amendment.

#### Deliverables:

- Monthly invoices with budget summary

### **Task 200, Design**

- Produce 75% and 100% complete design documents consisting of plans and specifications for the PS-10 rehabilitation based on the recommendations discussed in the referenced TM.
- Develop an estimate of probable construction cost at 75% and 100% complete design.
- See preliminary drawing list at end of Exhibit A.

#### Assumptions:

- The City will have DEA survey the site and produce a base map for the use of Tetra Tech in developing the site plan for the project. The base map will show property lines, easements, as well as existing utilities in the project site area.
- As mentioned previously, it is assumed that the City will acquire additional permanent easement area for the proposed layout included in the referenced PS-10 Rehabilitation TM. It is assumed that the City will have DEA develop supporting information (drawing, legal description, etc.) for this enlarged permanent easement, which will be approximately 20' x 40' (more than double the existing permanent easement).
- The City will have DEA develop supporting information (drawing, legal description, etc.) for a construction easement adjacent to the project site, in the parking lot of the trucking company. The City will acquire the temporary easement. A 3,000 sf area (e.g., 50' x 60') is assumed.
- As mentioned previously, it is assumed that the existing valve vault will be replaced, rather than modified.
- As discussed in the PS-10 Rehabilitation TM, Tetra Tech will meet with Tacoma Power to request that the 208 V, 3 phase electrical service to this station be converted to 460 V, 3 phase. It is assumed that Tacoma Power will agree to this conversion, and will perform all design and construction work necessary to provide this power at the existing pad-mounted transformer location (approximately 100 ft southeast of the pump station along Industry Drive East).
- It is also assumed that new, higher capacity wiring can be installed in the existing buried conduit between the existing transformer and the pump station site.
- Tetra Tech will provide the City with electronic files of the plans and specifications for the 75% and 100% design review.
- The City will provide review comments on these submittals within 2 weeks of receiving the electronic files.

- Tetra Tech will provide the City with electronic files of the bid documents for advertisement via the Builders Exchange.

**Deliverables:**

- 75% and 100% complete design documents (plans and specifications) and probable construction cost.
- Bid documents (Plans and Specifications) and engineer's estimate of construction cost in electronic format.

**Task 300, Services During Bidding**

- Answer questions from bidders. Document items discussed and answers provided.
- Conduct a pre-bid tour of the pump station.
- Develop one addendum to the bid documents, if necessary, and provide this to the City for posting on the Builders Exchange.
- Assemble bid tab.
- For the apparent low bidder: Review the bid for completeness. Contact the references for the similar projects listed in the bid. Provide results of the review and recommend award if there are no outstanding issues with the bid.

**Assumptions:**

- The City will pay all costs for advertising this project in the Builders Exchange.
- The City will organize and conduct the bid opening.
- Assuming the bid is determined to meet all legal and technical requirements, the City will issue the Award letter and Notice to Proceed.
- The City (and DEA) will be responsible for the Letter of Award and Notice to Proceed.
- A four week bid advertisement period is assumed.

**Deliverables:**

- Addenda package (if necessary).
- Bid tabulation.
- Results of bid review and recommendation of award.

**Task 400, Construction Administration**

- Coordinate the work efforts of the National Association of Corrosion Engineers (NACE) inspector who will be under subcontract with Tetra Tech (see Task 500).
- Coordinate with the City's Construction Manager (CM) David Evans and Associates on force account issues, issues impacting the management of the construction contract, and pay requests.
- Organize and run the pre-construction meeting.
- Organize and run construction progress meetings.
- Review and respond to Contractor submittals.
- Review and respond to Requests for Information (RFI's) from the Contractor.
- Communicate with the City on questions that may arise during the construction phase.
- Prepare change order technical and administrative documents (if necessary).
- Coordinate with the Coatings Inspector to provide the City with Daily Reports (See Task 500).
- Prepare the final punch list.

- Issue notice of construction completion for the PS-10 rehabilitation work after final inspection has been performed and all elements of the work have been completed.

**Assumptions:**

- Construction period of 6 months (May-October, 2014).
- Construction progress meetings will be on an as-required basis. The City or DEA can notify Tetra Tech if a progress meeting is desired, and Tetra Tech will schedule the meeting (A maximum of 6 meetings is assumed).
- If Tetra Tech believes that a construction progress meeting is necessary, the City will be contacted to discuss and confirm prior to a meeting being scheduled.
- Progress meetings may be held at the PS-10 project site, to minimize interruption in the Contractor's operations, and allow participants to view the progress, or issues of concern. Otherwise, progress meetings would be held at the City Public Works Building.
- A maximum of 1 change order is assumed.
- A maximum of 5 RFIs is assumed.
- DEA will be responsible for inspecting all construction work on this project, with the exception of chemical injection grouting and coating work. This includes installation of the sewage bypass system, traffic control activities, and the proposed improvements to the pump station discussed in the PS-10 Rehabilitation TM.
- DEA will issue daily field reports and the final punch list.
- DEA will also be responsible for tracking any force account costs (potentially this could be chemical injection grouting of the existing 6 ft diameter wetwell prior to coating), reviewing and processing pay requests, and the final acceptance letter.
- It is assumed that the specifications will include a requirement for the Contractor to have an office trailer at the site, and that a desk and internet connection will be available for the use of DEA, or GPI

**Deliverables:**

- Responses to Requests for Information (RFIs).
- Submittal review comments.
- Meeting notes for the pre-construction and project progress meetings.
- Reviewed inspection reports from the Coatings Inspector (GPI).
- Notice of construction completion for the PS-10 Rehabilitation work.

**Task 500, Coating Inspection (GPI)**

This task provides "hold point" inspections of the coating activity. Hold point inspections occur at critical junctures in the coating process to verify that the specified requirements for surface preparation, coating application, and environmental conditions are being met by the Contractor. Tetra Tech will provide a National Association of Corrosion Engineers (NACE) certified painting inspector from Greenman-Pedersen Inc (GPI) to perform the hold point inspections. The NACE inspector will coordinate his site visits with the Contractor to determine when an inspection is necessary and should occur. The NACE inspector will:

- Verify that the Contractor is following the project coating specifications and manufacturer's recommendations in completing the coating work.
- Complete daily reports on the coating work to include:
  - A summary description of the work underway and work completed
  - Surface preparation procedures and results

- Coating application environmental conditions (temperature, humidity, dew point, etc.)
- Coating application equipment, personnel, procedures, and application rates.
- Coating wet and dry mil thicknesses, quality of finish, workmanship
- Results of any QA/QC tests performed (e.g., surface profile, vapor emission rate, holiday test results, cure test results, etc.)
- Describe any corrective action required by the Contractor.
- Coordinate with the Contractor to determine the approximate timeframes for the hold point inspections.
- Coordinate with Tetra Tech on issues that arise during construction, and interface with the Contractor to implement the selected course of action.

**Assumptions:**

- The construction will be completed within the assumed construction period of 6 months.
- It is estimated that the coating work (including chemical injection grouting) at PS-10 will require approximately 3 weeks. The inspection hours listed in Exhibit C (45 hours) equate to approximately 3 hours per day on average. This includes travel time and time to write and coordinate on the inspection report.
- This level of observation should be adequate assuming the Contractor has good quality control standards and procedures and does not need a higher level of observation than described.

**Deliverables:**

- Daily reports, including QA/QC test results (surface profile, environmental conditions, coating thickness, etc). After review Tetra Tech will forward daily reports to the City, the Contractor, and the rest of the project team.

**Drawing List**  
**PS-10 Rehabilitation**

G-1	Title Sheet, Location Map, and Drawing Index
G-2	Abbreviations, Symbols, and General Notes
C-1	Site Plan and Civil Details
M-1	Mechanical Plan & Sections
S-1	Structural Plan & Sections
S-2	Structural Details (shows Weather Cover and Electrical Equipment Mounting System)
E-1	Electrical Symbols, Abbreviations, and Legends
E-2	One-Line Diagram, Load Calculation, and Tables
E-3	Electrical Site Plan
E-4	Control Panel Elevations, Interior and Exterior
E-5	Control Panel Schematics





City of Fife  
 PS-10 Rehabilitation Project  
 Engineering Services

Tetra Tech Estimated Hours And Cost								
Task	Project Principal	Project Manager/ Engineer	Struct. Engineer	Electrical Engineer	Elect.PM &QA/QC	CAD Design	Admin	Total
Task 100, Project Management	8	20			8			36
Task 200, Design		136	60	100	8	120	9	433
Task 300, Services During Bidding		16		6				22
Task 400, Construction Administration		100	16	24			9	149
Task 500, NACE Inspection (See Below)								
<b>Total Tetra Tech Hours</b>	<b>8</b>	<b>272</b>	<b>76</b>	<b>130</b>	<b>16</b>	<b>120</b>	<b>18</b>	<b>622</b>
<b>Billing Rate</b>	<b>\$204.37</b>	<b>\$184.12</b>	<b>\$126.00</b>	<b>\$154.82</b>	<b>\$162.54</b>	<b>\$126.00</b>	<b>\$107.10</b>	
<b>Tetra Tech Estimated Labor Cost</b>	<b>\$1,635</b>	<b>\$50,080</b>	<b>\$9,576</b>	<b>\$20,127</b>	<b>\$2,601</b>	<b>\$15,120</b>	<b>\$1,928</b>	<b>\$101,066</b>
<b>Other Direct Costs (See Table Below)</b>								<b>\$7,109</b>
<b>Total Cost</b>								<b>\$108,200</b>

Tetra Tech Estimated Other Direct Costs				
ODC	Units	Unit Price	Quantity	Total
Mileage	Miles	\$0.60	350	\$210
Computer Usage	Labor Hr	\$2.70	622	\$1,679
Printing/Copying	LS	\$300	1	\$300
GPI Sub-Consultant Cost (see below)	\$	\$4,470	1	\$4,470
Sub-Consultant Markup @ 10%		\$447	1	\$450
<b>Total Other Direct Costs</b>				<b>\$7,109</b>

**Subconsultant Cost**

Greenman-Pedersen Inc (GPI) Estimated Hours And Cost		
Task	Project Manager	Total
Task 600, NACE Inspection	32	32
<b>Billing Rate</b>	<b>\$135</b>	
<b>WPI Estimated Labor Cost</b>	<b>\$4,320</b>	<b>\$4,320</b>
<b>Total Other Direct Costs (See Table Below)</b>		<b>\$150</b>
<b>Total Cost</b>		<b>\$4,470</b>

Greenman-Pederson Inc Other Direct Costs				
ODC	Units	Unit Price	Quantity	Total
Milage	Miles	\$0.50	300	\$150
<b>Total Cost</b>				<b>\$150</b>

