

31 May 2013

Mr. Drew Lander, P.E.
Principal Engineer
Carmel Area Wastewater District
3945 Rio Road
Carmel, CA 93922

Subject: Proposal for Professional Engineering Services
Calle La Cruz Force Main Replacement and Condition Assessment
K/J F13131

Dear Drew:

We are pleased to submit this proposal for providing professional engineering services for the Calle La Cruz Force Main Project.

The purpose of this project is to provide design and bid support services for the replacement of the aerial portion of the Calle La Cruz Force Main (CLC-FM) and a condition assessment of the buried portion of the force main.

Scope of Services

The following is a detailed description of our proposed scope of services:

Task 1 – Project Management

Task 1 will consist of the day to day management of the project including the following items:

- Meetings with the District (assume two 2 hour conference call meetings and two meetings at the Districts office or site location):
 - a. Two 2 hour meetings via conference call to review project progress and deliverables,
 - b. One meeting at the District office to review the 90% Design Submittal and walk the site,
 - c. One meeting at the District office to attend a pre-bid meeting with potential bidders, and conduct a pre-bid site walk with the potential bidders
- QA/QC of the deliverables prior to submitting them to the District,

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- Communication with the District through phone calls and emails,
- Management of subconsultants, and
- Monthly progress billings.

Deliverables:

- Meeting agendas and meeting summaries (electronic copy and one hard copy),
- Weekly written updates on work progress via email, and
- Monthly progress billings.

District Assistance

- Attend meetings
- Attend the site walk

Task 2 – Design and Bid Services for Aerial Crossing

Design and Bid Services for the Aerial Crossing project will include a design to replace the aerial crossing portion of the Calle La Cruz force main. The portion that is planned to be replaced is from the pump station to the far side of the aerial crossing. The deliverables will be stamped by registered California Civil and Structural Engineers. The Design package will include a full set of bid ready drawings and specifications. We will incorporate District comments at the 50% and 90% design submittals into the subsequent submittal. Task 2 also includes bid assistance to the District. The specific tasks are as follows:

Task 2.1 Design

The design will be broken down into three submittals:

- 50% Design submittal:
 - 50% completed drawings (plan, profile, connection details),
 - List of specifications, and
 - Draft engineers estimate of probable construction cost.
- 90% Design Submittal:
 - 90% completed drawings (all drawings to completion),

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- 90% completed specifications (all specifications to completion), and
- Final engineers estimate of probable construction cost.
- Bid Documents.
 - Stamped and signed drawings and specifications.

The proposed list of design drawings and a list of specifications is enclosed as Exhibit A-List of Drawings and Specifications as part of our proposal.

Task 2.2 Bid Assistance

Task 2.2 includes assisting the District in bidding the project to potential bidders (contractors). This task includes the following items:

- Coordinating with a plan room to provide one set of bid documents to fulfill public bid requirements.
- Providing one full-size set of reproducible drawings and specifications, both hard copy and PDF copy as specified under Task 2.1.
- Attending a pre-bid meeting and site walk as described under Task 1.
- Responding to bidders questions (will be answered in the addendum).
- Addendums: Issue one addendum.
- Review bids and write a recommendation to award letter to the District.

Deliverables:

- 50% and 90% submittals with engineers estimate of probable construction cost: Three hard copies and one PDF copy via email.
- Bid documents: One PDF and one reproducible hard copy.
- Answer bidders questions, email with cc to the District or addressed in an Addendum if needed.
- Up to one addendum: One hard copy and one PDF copy to plan room for distribution.
- Recommendation to award letter to District: one PDF copy.

District assistance for Task 2:

- Review Division 0 specifications to ensure they are in accordance with District standards for bidding.
- Provide comments on the 50% and 90% design submittals, and engineers estimate of probable construction cost.
- Provide a location for the pre-bid meeting and attend the site walk.

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- Set up a contract with a plan room and pay for production and distribution costs of bid documents to prospective bidders, subcontractors, and material suppliers.
- Conduct the bid opening, review of bids, and award the contract to the lowest responsive bidder.

Task 3-Condition assessment

Task 3, Condition Assessment, consists of field work that will assess the condition of the existing Calle La Cruz Force Main (CLC-FM). The condition assessment will be performed by Kennedy/Jenks staff during a maximum of two days of field work.

Task 3.1 Field Work

Kennedy/Jenks with the assistance of the District or the general contractor selected by the District will select up to four locations to perform the following non-destructive tests of the external surfaces of the existing buried force main pipe:

1. Visual inspection,
2. Thickness testing using an ultrasonic thickness gauge (UT),
3. Corrosion pit measuring using a corrosion pit gauge.
4. Background soils analysis for corrosivity including field and lab analysis. The specific field and lab test that will be conducted is the PG&E Corrosion Package test with Copper Testing Laboratory in Palo Alto California, at \$240 per test.
5. Photographs to document the pipe condition.

Task 3.2 Technical Memorandum

Task 3.2 will be a technical memorandum (TM) that will present the following subjects:

1. A summary of the condition assessment,
2. Estimated life expectancy of the pipeline by area examined,
3. Pipe to soil potential measurements if possible (pipe is electrically continuous),
4. Recommendations for rehabilitation, replacement, or additional monitoring intervals and procedures of the pipeline, and
5. Budgetary cost estimates of recommended rehabilitation and replacements for both design and construction.

Kennedy/Jenks will summarize the findings during the field work and lab analysis of the soil samples in a draft TM. The TM will include recommended alternatives for rehabilitating, replacing or monitoring the existing buried force main based on the field work. Kennedy/Jenks will also provide a cost estimate for engineering and construction of the recommended alternative. The District will review and provide comments on the draft TM. Kennedy/Jenks will incorporate District comments and produce a final TM.

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Optional Task 3.3 Echologic Condition Assessment

The second portion of the condition assessment consists of Echologic performing their non destructive testing on the pipe to determine average remaining pipe wall thickness and leak detection. Echologic's qualifications are summarized in Exhibit B.

We propose to add the accessing the pipeline portion of the work to the bid documents as an optional task. The Echologic condition assessment will obtain more detailed condition assessment data of the pipeline that will be used to evaluate alternatives and the recommended final alternative for the buried portion of the Calle La Cruz Force Main.

The Echologic and visual inspection tests will be performed at approximate 500-foot intervals and cover the entire length of the buried portion of the Calle La Cruz force main, which is about 2,500 feet. This will require up to five potholes to attach the Echologic instruments to the pipe. The general contractor will provide excavations and shoring as needed for Echologic to perform the work. The Echologic technology requires at least 15 psi to work properly. It is our assumption that each end of the CLC-FM can be valved or flanged off with a blank and pumped up to the required pressure using the existing pumps or an accessory pump connected to the pipeline. This work is estimated to take two working days.

If the Echologic Condition Assessment is performed, the results of the assessment will be incorporated into the TM described in Task 3.2.

Deliverables:

- Three hard copies and one electronic copy of a draft and final TM .

District assistance:

- Provide access for a vacuum excavator truck or small backhoe to the areas to be tested.
- Assist Echologic with pressure control of pipeline to ensure proper readings can be made using the Echologic equipment.
- Obtain permits and pay permit fees for conducting the potholing along the pipeline as applicable.
- Review and comment on the draft TM.
- Attend field testing.

Schedule

The design and bid project schedule is anticipated to be approximately 29 weeks from notice to proceed to the conclusion of bid services. The hands-on condition assessment is anticipated to take a maximum of two days in the field and be performed during the design phase. The optional Echologic condition assessment is assumed to take five days in the field and would occur towards the end of the construction phase.

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Assuming a notice to proceed of July 1, 2013 the proposed project schedule is as follows:

- 50% Design – 4 weeks
 - District review – 2 weeks
- 90% Design – 4 weeks
 - District review – 2 weeks
- Two day condition assessment – 1 week
- Draft Condition assessment Technical Memorandum – 2 weeks
- District review – 2 weeks
- Final Condition assessment TM – 1 week
- Bid documents – 3 weeks
- Bid Assistance – 8 weeks

Basis of Compensation

We propose that compensation for our services be on a time and expense reimbursement basis in accordance with our attached Schedule of Charges dated 1 January 2012. Payments shall be made monthly based on invoices which describe services and list actual costs and expenses

Based on our estimate of services required, we propose a not to exceed budget for design and preliminary condition assessment of \$72,648 which will not be exceeded without authorization. For the added level of work that would include Echologic condition assessment work this would add \$47,265 to the contract for a total of \$119,913. The work required to access the pipe will be covered under the construction contract. The fee proposed by Kennedy/Jenks will not be exceeded without authorization. We will notify you prior to beginning any additional scope of work items to negotiate a revised scope and prepare an appropriate budget amendment. The optional scope of work will only be implemented upon written authorization by the District. This will need to occur by the submittal of the 90% Design documents such that we will have adequate time to plan and complete this work per the proposed schedule.

Our estimated fee and January 1, 2012 Schedule of Charges is contained in Exhibit C. The Schedule of Charges will be used through December 31, 2014. If the project extends beyond that time, we will use the Schedule of Charges currently in effect.

Terms and Conditions

This proposal is based on current projections of staff availability and costs and, therefore, is valid for 90 days following the date of this letter.

To assure a clear understanding of all matters related to our mutual responsibilities, the attached Standard Conditions dated 1 Jan 2007 are made a part of our agreement (part of Exhibit C).

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If this proposal meets with your approval, please prepare a contract using this proposal, fee and schedule of charges for our signature.

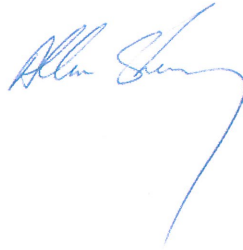
Thank you for considering us for this work. We look forward to working with you.

Very truly yours,

KENNEDY/JENKS CONSULTANTS



James Bowland P.E.
Project Manager



Allen Shewey P.E.
Vice President

Enclosure(s)

Exhibit A-List of Drawings and Specifications

Exhibit B-Ecologic Statement of Qualifications

Exhibit C-Estimated Fee, Schedule of Charges, and Standard Conditions

cc: Allen Shewey
Patrick Treanor