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Mr. Charles Grace
San Simeon Community Services District
111 Pico Ave.
San Simeon, CA 93452

June 7, 2018

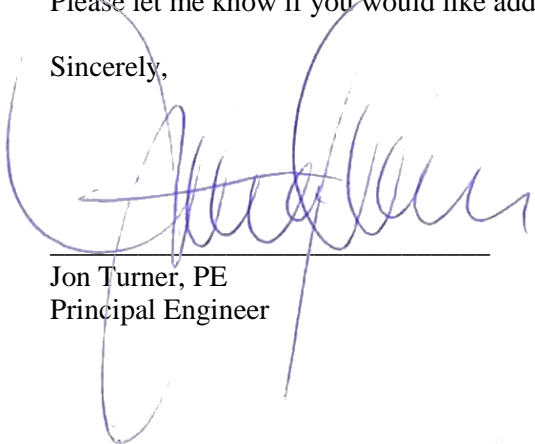
San Simeon Community Services District – Potable Water Reservoir – Engineering Design Proposal

Dear Mr. Grace-

I am pleased to provide you with this proposal for engineering services associated with the final design of the potable water storage reservoir. The District existing potable water reservoir is in place for potable water consumption, emergency storage and fire protection purposes. The existing facility is not sized for the current needs of the community. Insufficient storage volume in the tank results in the need for water moratorium implementation sooner than would be necessary if sufficient storage existed. At this time, the District is seeking to develop construction plans for an additional 400,000 Gallon reservoir and second pad site (2nd phase reservoir) to provide adequate capacity for the existing and future needs of the community. The plans will be based on the 30% concept plans and the recommendations from the SSCSD Master Plan Update (2018).

Please let me know if you would like additional information or want to discuss my proposal.

Sincerely,



Jon Turner, PE
Principal Engineer

Scope of Services

Background/Project Understanding

Located in an easement above the District office on Pico Avenue, the San Simeon Community Services District potable water storage reservoir collects the groundwater from the two District wells and provides water to the community. The District existing potable water reservoir is in place for potable water consumption, emergency storage and fire protection purposes. The existing facility is not sized for the current needs of the community. Insufficient storage volume in the tank results in the need for water moratorium implementation sooner than would be necessary if sufficient storage existed. At this time, the District is seeking to design construction plans for an additional 400,000 Gallon reservoir to provide adequate capacity for the existing and future needs of the community. A second site and pad will also be designed for the future second tank. Design will include civil improvements including tank appurtenances and grading. This will allow the District to abandon the existing reservoir. The plan set will build off of the 30% design completed for the District. Design efforts will include supplemental ground topographical survey (only aerial survey was done for the 30% design), final geotechnical analysis and recommendations based on the location selected by the District for the tanks, design document preparation, and an Opinion of Probable Construction Cost (OPCC) for the improvements.

This proposal incorporates bid phase services to assist the District in advertising the 95% designed civil improvement plans to prospective tank manufacturers. Many tank manufacturers provide internal engineering services for their respective products. Rather than retain the services of a structural engineer to be part of the design team on this project, it was decided to prepare the plans and specifications for the site work to a 95% level and then solicit competitive tank project bids from prospective manufacturers. Once selected, the design team would work with the tank designer to finalize the improvement plans based on their specific product.

Additional piping design will be required to connect to the previously designed piping in the access road that connects to the rest of the distribution system as well as upgrade the piping to the RO system. This design will be combined with the previous piping design for the potable water lines within Pico Avenue (Avonne to existing tank site), Jasper Way (between cul-de-sac and Pico Ave) and the 10-inch diameter line between Avonne Ave and Castillo Drive (west side).

SCADA design services have been included in the project. The SCADA design will allow communication between the proposed reservoir and the District well field and the field office within the Wastewater Treatment Plant. The SCADA installation will allow the operator to monitor the system remotely. An electrical engineer will design a minor electrical system for the reservoir system. This proposal does not include environmental analysis/permitting as those are services provided by others. Based on our discussions, I have the following list of tasks included in our proposal. The 30% design is considered Task 1 so the numbering in this proposal continues based on that numbering:

Task 2: Supplemental Survey, Final Geotechnical Investigation and Final Design

This task covers only the Tank 1 and 2 site designs as well as the Pico Avenue pipeline plan improvements (updated from the previous design) between the tank site and the intersection of Pico Ave and Avonne Ave.

Task 201: Supplemental Topographic Survey

Benner and Carpenter, as a subconsultant to Phoenix Civil Engineering, will perform supplemental topographic ground survey of the proposed tank sites and strip area leading to the existing tank site. This survey will include documenting the existing reservoir elevation, appurtenances and any nearby utilities with additional ground shots. Previously prepared aerial survey will be used as a starting point. Preparation of a

project legal description for the proposed reservoir on private property as well as a temporary construction easement legal description will be performed. Recordation of the documents will be performed by the District. No additional ground topographic survey is needed for the pipelines that were previously designed.

The following efforts are included in this task:

- Supplemental ground topographic surveying of the proposed reservoir sites.
- Preparation of temporary construction and permanent easement legal description and exhibit for recordation.

Deliverable: The legal descriptions and easement exhibits will be provided to the District electronically (.pdf) along with two copies of the signed and stamped documents prepared by the surveyor. The topographic survey will be used in other tasks below. It will be delivered to the District in the deliverable packages associated with those future tasks (below).

Task 202: 50% Preferred Option and OPCC Deliverable

The preferred 30% tank concept option will be used as the starting point to develop the construction plans and OPCCs. The 30% design plans will be finalized as a 50% design package, incorporating the review comments, discussions during the Master Planning effort and the incorporation of the identified improvements from the previous pipeline design in Pico Avenue.

The following efforts are included in this task:

- Incorporation of District review comments on the 30% preferred tank site design.
- Updating the previously prepared pipeline plans to incorporate the recommendations in the Master Plan document.
- Preparation of 50% level concept preferred option and OPCCs.

Deliverable: Three (3) 11x17 sets of the 50% level concept preferred option and OPCCs will be provided to the District. One electronic copy of the project deliverables package will be provided.

Task 203: Final Geotechnical Study

Oakridge Geoscience, Inc., as a subconsultant to Phoenix will drill an additional bore hole within the preferred site and utilize the previously obtained site soil materials to complete the final geotechnical design parameters recommendation report for the tank sites.

The following efforts are included in this task:

- Field exploration and analysis (boring).
- Finalize laboratory information and sampling investigation.
- Preparation of a final project specific geotechnical recommendations report.

Deliverable: Once the comments are received and incorporated, two bound paper copies of the final geotechnical recommendation report will be provided to the District for their files. Information gathered in this task will be used in Tasks 204 and 208.

Task 204: 95% Plans and Specifications Preparation

This task involves preparation of project plans and project technical specifications. It is anticipated that the project plans will consist of the following sheets:

- Title Sheet, Site Plan
- Notes and Abbreviations

- Site Layout Sheet
- Elevation and Sections
- Grading Sheets
- Structural Detail Sheets
 - To Be Included in Final Design (provided by tank manufacturer)
- Pipeline Plan Sheets
 - Pipeline Connection Details
 - Tank Drain Line Details/Profile
- Tank Accessories and Details
- Tank Access Road Site Plan and Details
- Electrical Plans
- SCADA/Instrumentation Plans

In addition, project technical specifications will be prepared for this project. The technical specifications will be in CSI format. Project front end documents will be provided by the District.

The following efforts are included in this task:

- Incorporation of data gathered as part of 50% design comments onto project plans sheets.
- Preparation of plan set, specifications and OPCC to a 95% level.

Deliverable: 95% level plans and technical specifications will be prepared. One set of 11 x 17 plans and project technical specifications will be provided electronically (.pdf) to the District for their internal review.

Task 205: Coordination with Regulatory Agencies

This task involves research and coordination with reviewing agencies as well as the United States Department of Agriculture (USDA).

The following efforts are included in this task:

- Coordinate with County of San Luis Obispo.
- Coordinate with USDA.

Deliverable: No deliverable. This information will be used in planning and the final design.

Task 206: Tank Bid Phase Services

This task is intended to solicit proposals from aboveground steel tank design firms who will contract with the District to provide tank design services as well as construction of the tank improvements.

Phoenix Civil Engineering will provide bid phase services to the District once the 95% Plans and Specifications from Task 205 are approved. Bid phase services include reviewing and responding to requests for information, attendance at and conducting a prebid meeting/site visits on behalf of the District, reviewing construction bids and providing a recommendation of award to the District for the Board meeting.

The following efforts are included in this task:

- Response to RFIs.
- Lead and attend one pre-bid meeting.
- Prepare addenda (2).
- Review construction bids.
- Prepare award letter

Deliverable: Request for information responses and the recommendation of award letters will be provided to the District for their files as well as one electronic copy of the files (MSWord and .pdf).

Task 207: Coordination with Tank Contractor

It is the District's intent to bid the project using the 95% planset. Once the project is awarded to the approved bidder, it is assumed that the District, Contractor and Phoenix Civil will review the plans. At this time final details and tank requirements will be discussed and the plans will be updated to reflect the requirements of the tank manufacturer and their structural calculations. This task involves research and coordination with the tank manufacturer and the contractor retained by the District.

The following efforts are included in this task:

- Coordinate with District retained contractor.
- Coordinate with tank manufacturer.

Deliverable: No deliverable. This information will be used in planning and the final design.

Task 208: Final Plans and Specifications Preparation

This task involves incorporation of review comments from the 95% level project documents and coordination with the tank manufacturer and contractor. A final set of project plans, technical specifications and OPCC will be completed.

The following efforts are included in this task:

- Incorporation of review comments from Tasks 204 and 207.
- Finalization of any outstanding project items/issues.

Deliverable: Final project documents (plans and technical specifications) will be delivered to the District. Final project plans will consist of one set of reproducible 22 x 34 bond plans and one set of 8.5 x 11 reproducible technical specifications. The OPCC will be transmitted electronically. In addition, one electronic copy of all of the documents will be provided on a CD.

Task 3: Supplemental Survey and Final Pipeline Design

This task covers only the remainder of the Phase 1 pipeline designs identified in the Master Plan. These pipelines are Jasper Way pipeline from the cul de sac to Avonne Avenue; Otter Way pipeline from Avonne Avenue to Hearst Drive; Avonne Avenue pipeline from Pico Ave to Otter Way and Castillo Drive pipeline from Pico Avenue to Otter Way. These pipeline improvements were not previously designed.

Task 301: Topographic Survey

Benner and Carpenter, as a subconsultant to Phoenix Civil Engineering, will perform topographic ground survey of the proposed pipeline alignments. This survey will include documenting the above ground culture (at grade utilities, power poles, curb/gutter/sidewalks. The limits of the survey will be from property boundary to property boundary.

The following efforts are included in this task:

- Ground topographic surveying of the proposed pipeline alignments identified above.

Deliverable: The topographic survey will be used in other tasks below. It will be delivered to the District in the deliverable packages associated with those future tasks (below).

Task 302: 75% Plans and Specifications Preparation

This task involves preparation of project plans and project technical specifications. It is anticipated that the project plans will consist of the following sheets:

- Title Sheet, Site Plan
- Notes and Abbreviations
- Pipeline Plan Sheets
- Connection Details

In addition, project technical specifications will be prepared for this project. The technical specifications will be in CSI format. Project front end documents will be provided by the District.

The following efforts are included in this task:

- Site visit.
- Incorporation of the project survey prepared as part of Task 301.
- Preparation of plan set, specifications and OPCC to a 75% level.

Deliverable: 75% level plans and technical specifications will be prepared. One set of 11 x 17 plans and project technical specifications will be provided electronically (.pdf) to the District for their internal review.

Task 303: Final Plans and Specifications Preparation

This task involves incorporation of review comments from the 75% level project documents. A final set of project plans, technical specifications and OPCC will be completed.

The following efforts are included in this task:

- Incorporation of review comments from Task 302.
- Finalization of any outstanding project items/issues.

Deliverable: Final project documents (plans and technical specifications) will be delivered to the District. Final project plans will consist of one set of reproducible 22 x 34 bond plans and one set of 8.5 x 11 reproducible technical specifications. The OPCC will be transmitted electronically. In addition, one electronic copy of all of the documents will be provided on a CD.

Schedule

The work associated with Tasks 201 through 303 will be made a top priority. Every effort will be made to keep the project schedule moving along. Review times are anticipated to be one week by the District.

Fees

Work associated with Tasks 201 through 303 is estimated to cost \$225,960. A breakdown of the level of effort is listed below:

Task 2: Supplemental Survey, Final Geotechnical Investigation and Final Design

Task 201:	Supplemental Topographic Survey	\$22,480
Task 202:	50% Design Preferred Option and OPCC Deliverable	\$45,320
Task 203:	Final Geotechnical Study	\$28,420
Task 204:	95% Plans and Specifications Preparation	\$35,460
Task 205:	Coordination with Regulatory Agencies	\$4,720
Task 206:	Bid Phase Services	\$7,480
Task 207:	Coordination with Tank Contractor	\$9,490

Task 208:	Final Plans and Specifications Preparation	\$25,180
Total Phase 2		\$178,550

Task 3: Supplemental Survey and Final Pipeline Design

Task 301:	Topographic Survey	\$16,500
Task 302:	75% Plans and Specifications Preparation	\$22,290
Task 303:	Final Plans and Specifications Preparation	\$8,620
Total Phase 3		\$47,410

Assumptions

The following assumptions apply to this proposal:

- Task 1 is considered to be the 30% Design effort already performed.
- All Public agency or project permit fees to be paid by client.
- Additional large format printing costs (beyond what included in this proposal) will be billed at cost in addition to the contract amount.
- No environmental engineering or landscape design services are included. This can be negotiated if the design plans require this work.
- Plan sheet size is 22 x 34.
- Project will be designed in Autodesk Civil 3D 2016/17.



Professional Services Hourly Rate Sheet 2017-18

Engineering

Principal Engineer	\$165
Resident Engineer	\$150
Professional Engineer	\$150
Associate Engineer II	\$140
Associate Engineer I	\$130
Assistant Engineer	\$105

CADD

Senior Designer	\$120
Assistant Designer	\$100

General

Construction Manager	\$145
Construction Observer	\$105
Technical Assistant	\$85
Clerical/Administrative Assistant	\$55

Costs associated with printing and computer time are calculated in the rates. Large quantities of printing (multiple sets of specifications, reports, etc.) will be billed at the actual rate without markup. Subconsultants will be marked up by 10%.