

Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS

3 Quail Run Circle, Suite 101
Salinas, CA 93907
831-883-4848
FAX 831-758-6328

January 11, 2018

Mr. Mike Wegley, PE
District Engineer
Marina Coast Water District
2840 4th Avenue
Marina, CA 93933

Subject: Proposal for Master Plan Technical Support and Peer Review

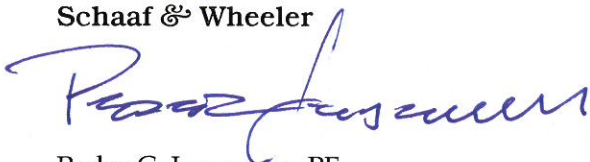
Dear Mike:

Schaaf & Wheeler is pleased to propose engineering services for **Master Plan Technical Support and Peer Review**. The District is updating their water, sewer and recycled water master plans, and requires technical support for the modeling and capital planning effort, as well as peer review of the master planning consultant's deliverables. Schaaf & Wheeler maintains the District's water and sewer models and provides on-call engineering services.

Our detailed scope of work and fee estimate are attached. Our estimated fee for this project is \$46,700. Costs will be billed on a time and materials basis, with a not-to-exceed limit. Under our on-call contract, our standard rates will be discounted by 6%.

We thank you for this opportunity to propose services for **Master Plan Technical Support and Peer Review**. Should you need any further information, please contact Andy Sterbenz at (831) 883-4848 or asterbenz@swsv.com.

Sincerely,
Schaaf & Wheeler



Peder C. Jorgensen, PE
Vice President

Encl.

Scope of Work: Technical Support and Peer Review for the MCWD Master Plans Update

Schaaf & Wheeler will provide technical support and peer review for the MCWD Water, Sewer and Recycled Water Master Plans update. Specific tasks are outlined below.

1. Respond to technical requests for information. Schaaf & Wheeler will respond to technical inquiries from the master plan consultant, as needed. Responses may include teleconferences, e-mails, or short technical memoranda. For budgeting, we are assuming 6 RFIs requiring an average of 8-hours effort per response.
2. Review the 30-year demand projection. The master plan consultant is required to update the demand projection in the 2015 UWMP and extend the planning horizon to the year 2037. Schaaf & Wheeler will review the data provided by the various jurisdictions and provide a quality control review of the updated projections prepared by the master plan consultant.
3. Review the Water System Model. Schaaf & Wheeler will review the updated system model with the master plan consultant. We anticipate this being a workshop including the District engineering and operations staff. The review will include the demand distribution, the operating parameters, peaking factors, calibration, deficiencies and alternatives. We will provide a formal review memorandum addressing recommended changes or corrections.
4. Review the Sewer System Model. Schaaf & Wheeler will review the updated system model with the master plan consultant. We anticipate this being a workshop including the District engineering and operations staff. The review will include the contribution distribution, the operating parameters, peaking factors, calibration, deficiencies and alternatives. We will provide a formal review memorandum addressing recommended changes or corrections.
5. Review the Recycled Water System Model. Schaaf & Wheeler will review the updated system model with the master plan consultant. We anticipate this being a workshop including the District engineering and operations staff. The review will focus on the demand distribution, peaking factors, and the proposed pressure reducing stations. We will provide a formal review memorandum addressing recommended changes or corrections.
6. Review the Water System Master Plan Report. Schaaf & Wheeler will review the compiled administrative draft master plan report and provide a formal review memorandum addressing recommended changes or corrections. We will also review the subsequent drafts of the master plan. Total of two reviews assumed.
7. Review the Sewer System Master Plan Report. Schaaf & Wheeler will review the compiled administrative draft master plan report and provide a formal review memorandum addressing recommended changes or corrections. We will also review the subsequent drafts of the master plan. Total of two reviews assumed.
8. Review the Recycled Water System Master Plan Report. Schaaf & Wheeler will review the compiled administrative draft master plan report and provide a formal review memorandum

addressing recommended changes or corrections. We will also review the subsequent drafts of the master plan. Total of two reviews assumed.

Our projected level of effort for these tasks assumes that the models and master plans are generally complete and correct when submitted, and we are reviewing for an accurate representation of the District's current and future systems. Multiple review iterations are not included.

Schaaf & Wheeler

CONSULTING CIVIL ENGINEERS

Client: Marina Coast Water District

Project: Master Plans Peer Review and Technical Support

Estimate Date: 1/11/2018

NO.	TASK ITEMS DESCRIPTION	PRINCIPAL PRJ MGR \$216.80	SENIOR PRJ MGR \$206.80	SENIOR ENG \$192.70	ASSOC ENG \$173.90	ASST ENG \$155.10	JUNIOR ENG \$145.70	SUBTOTAL M.H.'S	IN-HOUSE LABOR COSTS \$	IN-HOUSE MATERIAL COSTS \$	TOTAL COSTS \$ W/ MARK-UP
1	RFI Technical Responses (assume 6)	6	12		24			42	\$7,956		\$7,956
2	Review 30-yr development projection		4					4	\$827		\$827
3	Review Water System Model		32		8			40	\$8,009		\$8,009
4	Review Sewer System Model		24		8			32	\$6,354		\$6,354
5	Review RW System Model		8		8			16	\$3,046		\$3,046
6	Review Water Master Plan	24	16					40	\$8,512		\$8,512
7	Review Sewer Master Plan	24	16					40	\$8,512		\$8,512
8	Review RW Master Plan	8	8					16	\$3,389		\$3,389
	Total	62	120	0	48	0	0	230	\$46,605	\$0	\$46,605
ROUNDED TOTAL											\$46,700