



July 20, 2017



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Subject: Proposal for Engineering and Land Surveying Services, Marble Mountain Ranch Discharge Project, Siskiyou County

Tel. 916 / 722-1800  
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Ms. Fuller:

Principal:  
John C. Scroggs

The following is our proposal to provide engineering and surveying services to design a piped intake on the Stanshaw Creek and to design a piped replacement of an existing open ditch discharge from the existing Stanshaw Creek point of diversion to the irrigation, domestic water, fire suppression and hydro power manifold at the Marble Mountain Ranch. Based on my discussions with you and Jeff Meyer at ECORP Consulting, we understand that:

- Approximately ¾ mile of open ditch is to be replaced with a pipeline
- The existing hand constructed gravel and cobble dam that now diverts flow from Stanshaw Creek to the open ditch system is to be replaced with a diversion structure that will be suitable to the owners of Marble Mountain Ranch and be acceptable to the California Department of Fish and Wildlife, North Coast Water Quality Control Board and State Water Resources Control Board. We will review with the owners and with Fish and Wildlife and Water Quality Control Board representatives screened and/or slotted intake facilities. The new intake structure shall have capacity to divert up to 3 cubic feet per second (cfs) but must also be suitable for low creek flow periods when the flow diverted may be as low as 0.3 cfs.
- Flow through the new pipeline will be metered. We will review with you and with the Marble Mountain Ranch owners how these flows are to be recorded and if the meter is to provide a feedback signal to an automatic control valve for flow control.
- Much of the area to be replaced with piped improvements and the existing and proposed point of diversion at Stanshaw Creek are located on Klamath National Forest Land. We understand that the Marble Mountain Ranch point of diversion and discharge ditch pre-date the establishment of the Klamath National Forest and are not subject to forest land lease requirements or a special use permit.
- Point of diversion improvements may modify the bed, bank or channel of Stanshaw Creek and, therefore, will likely require a California Fish and





Wildlife Section 1602 Streambed Alteration Permit. For the purpose of this proposal, we have not included application for the Section 1602 Permit in the scope of our work. We will, however, assist your office with the preparation of plans, exhibits, photos, cost estimates and the like to support the Section 1602 Permit Application by you or by others.

- The scope of our work will include assistance in obtaining construction bids from qualified contractors, responding to questions from prospective bidders and assistance to you and to the owner of Marble Mountain Ranch in selecting a contractor for this work. We will also conduct a preconstruction meeting and assist the selected contractor with establishing horizontal and vertical surveying and mapping control to construct the proposed improvements.
- Ditch replacement improvement plans and the plans and specifications for the new point of diversion on Stanshaw Creek will be prepared for review and approval by California Fish and Wildlife, North Coast Regional Water Quality Control Board and State Water Resources Control Board. Plans and specifications will be submitted to your office and to your clients prior to submittal to the regulatory agencies. We expect that to obtain plan approval an initial submittal followed by two resubmittals, responding to review comments, will be required.

We propose to prepare plans and specifications for the Marble Mountain Ranch Discharge as described herein for a fee of \$44,250. Invoices will be prepared for work conducted during monthly billing periods in accordance with our current Standard Rate Schedule, attached. As we discussed, the piped system improvement plans and specifications will be prepared in anticipation that project improvements will be constructed during the 2018 construction season.

In the preparation of this proposal, I have assumed that I will have the opportunity to review existing conditions at the site and confirm the scope of our work with the owners of Marble Mounting Ranch. This initial review will be conducted at the time of our field surveys. Early in the design process, I will also meet with representatives of the Fish and Wildlife, North Coast Water Quality Board and State Water Resources. If our proposal is acceptable to you, please provide contact information for the owner of Marble Mountain Ranch and for other stakeholders to coordinate our services.

Thank you for the opportunity to be of service.

Very truly yours,

KASL Consulting Engineers

A handwritten signature in blue ink, appearing to read "John C. Scroggs", is written over the typed name.

John C. Scroggs

## 2017 STANDARD RATE SCHEDULE

**KASL CONSULTING ENGINEERS**, providing superior service in civil engineering, water resources and surveying since 1982.

We define the art of engineering.



### PROFESSIONAL RATES

Engineer, Surveyor 1	\$184.00 per hour
Engineer, Surveyor 2	\$157.00 per hour
Engineer, Surveyor 3	\$140.00 per hour
Engineer, Surveyor 4	\$124.00 per hour
Engineer, Surveyor 5	\$108.00 per hour
Engineer, Surveyor, Technician 6	\$ 96.00 per hour
Engineer, Surveyor, Technician 7	\$ 91.00 per hour
Engineer, Surveyor, Technician 8	\$ 81.00 per hour
Technician, Administration 9	\$ 64.00 per hour
Technician, Administration 10	\$ 60.00 per hour
Technician, Administration 11	\$ 39.00 per hour
2-Man Survey Crew	\$195.00 per hour
3-Man Survey Crew	\$235.00 per hour

### BASIC CHARGES

**TRAVEL OUTSIDE OF SACRAMENTO METROPOLITAN AREA** -- \$0.54 per mile for truck or private vehicle, or direct cost of public transportation, plus direct cost of meals and lodging.

**WHEN PERSONNEL** are required to work during premium overtime pay hours, the above hourly rates will be multiplied by 1.50 for time-and-one-half hours and by 2.00 for double time hours.

**OTHER DIRECT EXPENDITURES** on behalf of the client will be billed at cost plus 15% percent for handling.

**UNDER PROVISIONS OF THIS AGREEMENT**, a late payment finance charge will be computed at the periodic rate of 1.5% percent per month, which is an annual percentage rate of 18% percent, and will be applied to an unpaid balance commencing 30 days after the date of the original invoice.