

# Lake County Special Districts

## Engineering and Design Services for Relocation of Sewer Facilities in the Middletown LACOSAN Area

### Estimated Man-hours and Proposed Budget

Task	Principal In Charge	Project Manager	Staff Engineer	Engineering Technician	Clerical	Travel Time	Total Labor	Expenses	Total
	Hours	Hours	Hours	Hours	Hours	Hours	\$	10% \$	\$
	\$180	\$140	\$130	\$90	\$70	\$50			
<b>Project Management - 4 months</b>	4.0	8.0			4.0		\$ 2,120	\$ 212	\$ 2,332
<b>1 Kick off meeting and site visit</b>		4.0	4.0		1.0	16.0	\$ 1,950	\$ 773	\$ 2,723
<b>2 Prepare Plans</b>									
60% Plans & Review Workshop	1.0	12.0	34.0	10.0	1.0	16.0	\$ 8,050	\$ 805	\$ 8,855
90% Plans		8.0	24.0	10.0			\$ 5,140	\$ 514	\$ 5,654
Final Bid Plans		8.0	24.0	10.0			\$ 5,140	\$ 514	\$ 5,654
<b>3 Prepare Specifications</b>									
60% Specifications	1.0	10.0	16.0		2.0		\$ 3,800	\$ 380	\$ 4,180
90% Specifications		4.0	8.0		1.0		\$ 1,670	\$ 167	\$ 1,837
Final Bid Specifications		4.0	8.0		2.0		\$ 1,740	\$ 174	\$ 1,914
<b>4 Prepare Cost Estimate</b>		8.0	12.0		1.0		\$ 2,750	\$ 275	\$ 3,025
<b>Total</b>	6.0	66.0	130.0	30.0	12.0	32.0	\$ 32,360	\$ 3,814	\$ 36,174
<b>Budget Estimate - Rounded Up</b>									\$ 36,200



**Oscar Larson & Associates**

Engineering - Planning - Construction Management