

**GARDEN GROVE SANITARY DISTRICT  
SEWER SYSTEM REHABILITATION PLAN PHASE II  
ACACIA AND TAFT SEWER MAIN REPLACEMENT  
FEE SUMMARY**

Scope of Work Tasks	JIG Labor Hours					Hours	Fee	Subconsultants			Direct Costs	Total Fee
	PM / PE	QC	Sr. Eng	Civil	Admin			Geotech	Survey	Pothole		
	\$190	\$170	\$160	\$140	\$85							
<b>TASK I - Project Management, Meetings &amp; Coordination</b>	44	0	0	0	0	44	\$8,360	\$0	\$0	\$0	\$0	\$8,360
<b>TASK II - Preliminary Investigations &amp; Topographic Mapping</b>												
2.1 Initial Kick-Off Meeting	2	0	0	0	1	3	\$465	\$0	\$0	\$0	\$0	\$465
2.2 Records and Requirements Search	0	0	1	8	8	17	\$1,960	\$0	\$0	\$0	\$150	\$2,110
2.3 Ground Control and Survey	0	0	0	0	0	0	\$0	\$0	\$16,720	\$0	\$0	\$16,720
2.4 Geotechnical Investigations	0	0	0	0	0	0	\$0	\$14,850	\$0	\$0	\$0	\$14,850
<b>Subtotal Task II -</b>	<b>2</b>	<b>0</b>	<b>1</b>	<b>8</b>	<b>9</b>	<b>20</b>	<b>\$2,425</b>	<b>\$14,850</b>	<b>\$16,720</b>	<b>\$0</b>	<b>\$150</b>	<b>\$34,145</b>
<b>TASK III - Preliminary Engineering</b>												
3.1 Draft Preliminary Design Technical Memorandum	12	2	38	12	2	66	\$10,550	\$0	\$0	\$0	\$100	\$10,650
3.2 PDTM Submittal Review Meeting	2	0	0	0	1	3	\$465	\$0	\$0	\$0	\$0	\$465
3.3 Final Preliminary Design Technical Memorandum	4	0	12	4	0	20	\$3,240	\$0	\$0	\$0	\$100	\$3,340
<b>Subtotal Task III -</b>	<b>18</b>	<b>2</b>	<b>50</b>	<b>16</b>	<b>3</b>	<b>89</b>	<b>\$14,255</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$200</b>	<b>\$14,455</b>
<b>TASK IV - Final Engineering</b>												
4.1 Permits and Utility Coordination	2	0	2	4	8	16	\$1,940	\$0	\$0	\$0	\$0	\$1,940
4.2 Utility Verification and Potholing (30 potholes)	0	0	0	8	0	8	\$1,120	\$0	\$0	\$42,000	\$0	\$43,120
4.3 Construction Plans, Specs, and Estimate (60%, 90%, 99%, and 100%)	29	16	113	218	23	399	\$58,785	\$0	\$0	\$0	\$250	\$59,035
4.4 Progress Submittal Review Meetings (60% & 90%)	4	0	0	0	2	6	\$930	\$0	\$0	\$0	\$50	\$980
4.5 Final Deliverable	1	0	8	32	2	43	\$6,120	\$0	\$0	\$0	\$150	\$6,270
4.6 Bid Phase Assistance	1	2	0	12	4	19	\$2,550	\$0	\$0	\$0	\$0	\$2,550
<b>Subtotal Task IV -</b>	<b>37</b>	<b>18</b>	<b>123</b>	<b>274</b>	<b>39</b>	<b>491</b>	<b>\$71,445</b>	<b>\$0</b>	<b>\$0</b>	<b>\$42,000</b>	<b>\$450</b>	<b>\$113,895</b>
<b>Subtotal Tasks I to IV</b>	<b>101</b>	<b>20</b>	<b>174</b>	<b>298</b>	<b>51</b>	<b>644</b>	<b>\$96,485</b>	<b>\$14,850</b>	<b>\$16,720</b>	<b>\$42,000</b>	<b>\$800</b>	<b>\$170,855</b>
Optional - Additional Effort to Segregate Section 3 - Acacia Ave												\$25,150
1. Separate Section 3 borings/mobilization for geotechnical investigations												
2. Separate PDTM for Section 3												
3. Separate Construction Plans/Specifications for Section 3												
Optional - 15% of Task I to Task IV												\$25,628
<b>Total</b>												<b>\$221,633</b>

**GARDEN GROVE SANITARY DISTRICT  
SEWER SYSTEM REHABILITATION PLAN PHASE II  
PROJECT NO. 1, 31, 47 and 48  
FEE SUMMARY**

Scope of Work Tasks	JIG Labor Hours					Hours	Fee	Subconsultants			Direct Costs	Total Fee
	PM / PE	QC	Sr. Eng	Civil	Admin			Geotech	Survey	Pothole		
	\$190	\$170	\$160	\$140	\$85							
<b>TASK I - Project Management, Meetings &amp; Coordination</b>	50	0	0	0	0	50	\$9,500	\$0	\$0	\$0	\$0	\$9,500
<b>TASK II - Preliminary Investigations &amp; Topographic Mapping</b>												
2.1 Initial Kick-Off Meeting	2	0	0	0	1	3	\$465	\$0	\$0	\$0	\$0	\$465
2.2 Records and Requirements Search	0	0	1	6	6	13	\$1,510	\$0	\$0	\$0	\$150	\$1,660
2.3 Ground Control and Survey	0	0	0	0	0	0	\$0	\$0	\$20,460	\$0	\$0	\$20,460
2.4 Geotechnical Investigations	0	0	0	0	0	0	\$0	\$28,100	\$0	\$0	\$0	\$28,100
<b>Subtotal Task II -</b>	<b>2</b>	<b>0</b>	<b>1</b>	<b>6</b>	<b>7</b>	<b>16</b>	<b>\$1,975</b>	<b>\$28,100</b>	<b>\$20,460</b>	<b>\$0</b>	<b>\$150</b>	<b>\$50,685</b>
<b>TASK III - Preliminary Engineering</b>												
3.1 Draft Preliminary Design Technical Memorandum	12	2	38	12	2	66	\$10,550	\$0	\$0	\$0	\$100	\$10,650
3.2 PDTM Submittal Review Meeting	2	0	0	0	1	3	\$465	\$0	\$0	\$0	\$0	\$465
3.3 Final Preliminary Design Technical Memorandum	4	0	12	4	0	20	\$3,240	\$0	\$0	\$0	\$100	\$3,340
<b>Subtotal Task III -</b>	<b>18</b>	<b>2</b>	<b>50</b>	<b>16</b>	<b>3</b>	<b>89</b>	<b>\$14,255</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$200</b>	<b>\$14,455</b>
<b>TASK IV - Final Engineering</b>												
4.1 Permits and Utility Coordination	2	0	4	16	8	30	\$3,940	\$0	\$0	\$0	\$0	\$3,940
4.2 Utility Verification and Potholing (30 potholes)	0	0	0	4	0	4	\$560	\$0	\$0	\$41,550	\$0	\$42,110
4.3 Construction Plans, Specs, and Estimate (60%, 90%, 99%, and 100%)	35	16	137	314	23	525	\$77,205	\$0	\$0	\$0	\$250	\$77,455
4.4 Progress Submittal Review Meetings (60% & 90%)	4	0	0	0	2	6	\$930	\$0	\$0	\$0	\$50	\$980
4.5 Final Deliverable	1	0	4	28	2	35	\$4,920	\$0	\$0	\$0	\$150	\$5,070
4.6 Bid Phase Assistance	1	2	0	12	4	19	\$2,550	\$0	\$0	\$0	\$0	\$2,550
<b>Subtotal Task IV -</b>	<b>43</b>	<b>18</b>	<b>145</b>	<b>374</b>	<b>39</b>	<b>619</b>	<b>\$90,105</b>	<b>\$0</b>	<b>\$0</b>	<b>\$41,550</b>	<b>\$450</b>	<b>\$132,105</b>
<b>Subtotal Tasks I to IV</b>	<b>113</b>	<b>20</b>	<b>196</b>	<b>396</b>	<b>49</b>	<b>774</b>	<b>\$115,835</b>	<b>\$28,100</b>	<b>\$20,460</b>	<b>\$41,550</b>	<b>\$800</b>	<b>\$206,745</b>
Optional - Additional Effort to Jack and Bore under 22 Freeway for Section 6												\$36,600
1. Aerial topographical mapping of the 22 Freeway crossing												
2. Engineering and Design for Jacking and Boring under 22 Freeway												
3. Prepare legal description and map for utility easements												
4. Additional borings for geotechnical investigations												
5. Obtain Caltrans permit for 22 Freeway crossing												
6. Prepare legal description for easement through Caltrans property												
Optional - 15% of Task I to Task IV												\$31,012
<b>Total</b>												<b>\$274,357</b>

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FEE SUMMARY**

Scope of Work Tasks	JIG Labor Hours					Hours	Fee	Subconsultants			Direct Costs	Total Fee
	PM / PE	QC	Sr. Eng	Civil	Admin			Geotech	Survey	Pothole		
	\$190	\$170	\$160	\$140	\$85							
TASK I - Project Management, Meetings & Coordination	94	0	0	0	0	94	\$17,860	\$0	\$0	\$0	\$0	\$17,860
TASK II - Preliminary Investigations & Topographic Mapping	4	0	2	14	16	36	\$4,400	\$42,950	\$37,180	\$0	\$300	\$84,830
TASK III - Preliminary Engineering	36	4	100	32	6	178	\$28,510	\$0	\$0	\$0	\$400	\$28,910
TASK IV - Final Engineering	80	36	268	648	78	1110	\$161,550	\$0	\$0	\$83,550	\$900	\$246,000
<b>Subtotal Tasks I to IV</b>	<b>214</b>	<b>40</b>	<b>370</b>	<b>694</b>	<b>100</b>	<b>1418</b>	<b>\$212,320</b>	<b>\$42,950</b>	<b>\$37,180</b>	<b>\$83,550</b>	<b>\$1,600</b>	<b>\$377,600</b>
Optional - Section 3 and 6												\$61,750
Optional - 15% of Tasks I to IV												\$56,640
<b>Total</b>												<b>\$495,990</b>