

## Project Budget

**Seismic Retrofit of Jalama Road Bridge (51C0016)  
Additional Services for CIDH Pile Design Analysis  
and Bolted Connections**

**Santa Barbara County  
Public Works Department**

Task Description	Personnel Hours					Budget		
	Principal Eng	Associate Eng	Assist. Eng	Sr. Tech/Designer	Clerical	Total Hours	Labor	Non-Labor Fee
<b>Santa Barbara Bridge 0016 BD03.xls</b>								
<b>Task Group 1 Added Design Services</b>								
Develop Pile Section Properties	1		4			5	\$ 499	
Coordinate with Geotech and develop soil spring constants	4		16			20	\$ 1,994	
Modify bridge dynamic analysis program	1	10	1			12	\$ 1,216	
Review analysis (Pile deflections excessive and soil fails)	16	16	16			48	\$ 5,624	
Enlarge pic and extend depth	1	4				5	\$ 559	
Recalculate new pile section and spring constants	4		12			16	\$ 1,670	
Modify bridge dynamic analysis program		4				4	\$ 384	
Review analysis (Pile deflections excessive and soil fails again)	4	8	8			20	\$ 2,115	
Enlarge pic and extend depth		4				4	\$ 384	
Recalculate new pile section and spring constants	1		12			13	\$ 1,147	
Modify bridge dynamic analysis program		4				4	\$ 384	
Review analysis (Pile deflections acceptable and soil within limits)	4	4	4			12	\$ 1,406	
<b>Subtotal</b>	<b>36</b>	<b>54</b>	<b>73</b>	<b>-</b>	<b>-</b>	<b>163</b>	<b>\$ 17,382</b>	<b>\$ -</b>
<b>Task Group 2 Added Design Services Bolted Conn.</b>								
Check the potential for provision of bolted connections	1	8				9	\$ 943	
Design bolted connections	1	16				17	\$ 1,712	
Revise the drawings	1	2	25			28	\$ 2,393	
<b>Subtotal</b>	<b>12</b>	<b>26</b>	<b>25</b>	<b>-</b>	<b>-</b>	<b>66</b>	<b>\$ 7,140</b>	<b>\$ -</b>
<b>Total</b>	<b>51</b>	<b>80</b>	<b>98</b>	<b>-</b>	<b>-</b>	<b>229</b>	<b>\$ 24,522</b>	<b>\$ -</b>

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Santa Barbara Bridge 0016 BD03.xls									

Amounts shown are fee.

Personnel Category	\$/HR
Principal Eng	\$174.30
Associate Eng	\$96.11
Assist. Eng	\$81.06
Sr. Tech/Designer	\$105.16
Clerical	\$62.89