• Structural Engineers • Civil Engineers

Construction Management

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Wednesday, August 20, 2008

COST ESTIMATE FOR ENGINEERING DESIGN SERVICES

Project name and location: Pre-School at 850 masonic Ave, Albany, CA

Project Description: Seismic Shear Bracing Design in Crawl Space, Foundation

and Specifications

Scope of Services: The proposed services are limited to as described below:

- 1. Verify existing site and construction details
- 2. Design cripple wall bracing for earthquake and wind loads per 2007 CBC and 2006 IEBC (International Existing Building Code that allows to use 75% of the 2007 CBC design value for seismic load.
- 3. Design foundation for west wall and interior pad footing that are missing. Reconnect or provide new interior footing.
- 4. Design one transverse shear wall and footing under interior middle wall. Connect floor framing to the new footing.
- 5. Provide plan, connection details, specifications. Design concrete pad under HVAC unit in crawl space. Design new sump-pump pit with filter fabric and drain rock.
- 6. No shear wall design in main floor level.
- 7. No soil report is available. We will establish design parameters based on CBC criteria where no soil report is
- 8. Provide electronic and hard copies of our plan and alculations

Job estimate

Task	Time	Rate	\$	
	hr.	\$/hr.*		
Site information	4	110	440	
Conceptual design Seismic load	2	110	220	
design	6	110	660	
Wind load design	6	110	660	
Develop connections bet floor and cripple walls	4	110	440	
New west wall footing and interior post footing	4	110	440	
New shear wall and footing in transverse direction				
in crawl space possibly under wall in main floor	5	110	550	
Connection bet interior girder to post to foundation	5	110	550	
Concrete pad under HVAC units	2	110	220	
Design new sump-pump details	2	110	220	
Details, Drawings & Specifications	28	110	3080	
Administrative Engineering	4	52	208	
Sub-tot - Eng Design	72		7688	
Response to plan check review	4	110	440	
Construction phase meeting, RFI, memorandum,	14	110	1540	

Engg	
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Total	90	9668
Print, copies, etc		\$150

* This an average rate for Sr. and Jr. Engineers and draft person.

Respectfully submitted by:

Bishwendu K. Paul, S.E. 3093 Exp 9/09

President