



O'Neill Building at the Harbor Promenade Santa Cruz, California

Civil and Structural Engineering



Mesiti-Miller Engineering provided all civil and structural engineering for the complete retrofit and remodel of this two-story 11,400SF mixed use retail/office building as well as the public plaza along the beach sides of the building.

MME was able to reduce cost significantly by reusing most of the original wood framing and adding new steel frames to handle the current code required lateral earthquake and wind forces. The existing foundation system was modified only where needed to support the new loads including a new elevator. Our innovative use of foam to replace portions of the soil below the building kept the total weight of the new larger building the same as the old smaller building thereby minimizing the foundation pressures on the existing site soils and saving substantial construction dollars.

Besides upgrading the site utilities to meet the demands of a complete building fire sprinkler system and to handle the increased waste stream generated by two separate ground floor restaurants, we completely reworked the site to provide ADA compliant access to the building as well as the adjacent beach.



Client Reference:

Santa Cruz Port District / O'Neill Sea Odyssey

Architect:

the late Gary Garmann Architect, AIA

Production Architect:

Dennis Diego, Architect

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Budget: \$3.3 million