## Aquarium of the Pacific, Watershed Exhibit & Building

2008 Long Beach, California

certified LEED Platinum NET ZERO











### SITE & PROGRAM

The project included the construction of a new classroom, outdoor exhibit space, extensive site restoration, and landscaping. The classroom opens and connects directly to the outdoor exhibit area and expansive northern harbor views.

The construction and design of the classroom and hands-on outdoor exhibits demonstrate practical and environmental methods to teach vistiors how to live more sustainably with nature and its resources.

Architect: EHDD Architecture, San Francisco CA

Project Designer: Simone Goldfeder Building Type: Public Classroom & Exhibit

Project Type: New Construction Project Scope: Full contract Client: Aquarium of the Pacific

Size: 950 SF classroom + 1750 SF exhibit

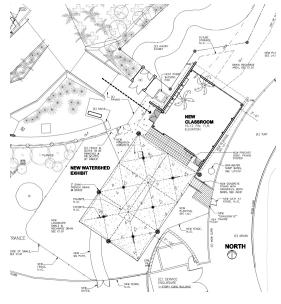
Project Cost: \$550,000 Schedule: Completed 2008

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### MATERIALS & CONSTRUCTION

The single wythe walls are constructed of ground face concrete masonry, the roof is built of exposed heavy timber wood framing, and the floor is finished concrete. All materials are low or no VOC. The masts of the exhibit canopy also shade both the outdoor and indoor classroom glazing and supports photovoltaic panels.

An eco-roof with native species plantings was installed on the classroom building. The vegetated roof acts to minimize stormwater runoff and helps to cool the interior of the naturally ventilated classroom. The solar photovolatic system generates all of the required electricity for the project. A small DC motor pumps wastewater from a hand washing sink to an onsite graywater and treatment system, and lastly, to the eco-roof irrigation.

The project received a Green Building of America Award.

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Ecoroof with native Vegetation Irrigated by recycled Graywater year round On site stormwatwr infiltration Pervious concrete hardscape



Watershed Education Interactive Sea to Sky model









NetZero performance Integrated energy systems Solar Photovoltaics Passive cooling Shade canopy