



ARNOLD & MABEL BECKMAN CENTER FOR CONSERVATION RESEARCH

SAN DIEGO, CALIFORNIA

Sustainable Jury Comments: This zoological research center earned the LEED Silver designation through a combination of energy efficiency, daylighting, water conservation and material resource efficiency. High performance windows are well oriented and shaded. A 30 kW photovoltaic system provides enough power for the interior lights. 90% of construction waste was recycled. Waste water is recycled for irrigation.

Architect's Commentary: The state-of-the-art Arnold and Mabel Beckman Center for Conservation Research (CRES facility) at San Diego Zoo's Wild Animal Park is the largest zoo-based research facility in the world. The facility is nearly 50,000 square feet, and will enable scientists to continue the critical conservation research of endangered species and habitats worldwide.

The architecture reflects the international scope of the research of CRES and draws on the Southeast Asian theme of the site's context, as is found in the surrounding developments at the Wild Animal Park. The building mass was arranged around a central courtyard, which provides increased natural light into the laboratory and office areas, and also provides a central gathering space readily adjacent to each research division, creating opportunities for casual interaction and exchange of ideas.

Sustenance:

- The mission of CRES is to provide research to help prevent extinction of wildlife.
- The project has been awarded LEED Silver Certification by the U.S. Green Building Council.

Energy Saving Features:

- Photovoltaic panels provide 30 kilowatts of electrical power, enough to run all of the lights inside the building.
- Solar orientation in both siting and fenestration were carefully studied, with deep eaves and solar shading devices integrated into the exterior design. Overall energy consumption for the CRES building will be 35% less than a similar facility that is built

using standard construction. This is mainly achieved by a highly efficient HVAC, insulating glass, and automatic control systems.

Environmentally Friendly Materials:

- Renewable and sustainable materials such as locally produced concrete masonry, eucalyptus woods and farm-grown bamboo were selected for both their thematic and renewable benefits.
- Recycled materials were used in the carpeting, structural steel, and concrete masonry block.

A Healthy and Efficient Workplace:

- Indoor air quality is improved through the use of minimal "off-gassing" materials
- Water-saving fixtures reduce water usage by 20%
- Extensive use of natural daylight throughout the building.

Recycling:

- Over 90% of the waste generated by the construction process was recycled.
- Waste products were sorted on-site and sent to appropriate recycling facilities
- Waste water is recycled for irrigation use.

ARCHITECT:

Ferguson Pape Baldwin Architects
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Jim Ferguson, AIA

STRUCTURAL ENGINEER:
Arcon Engineers

GENERAL CONTRACTOR:

Turner Construction

MASONRY CONTRACTOR:

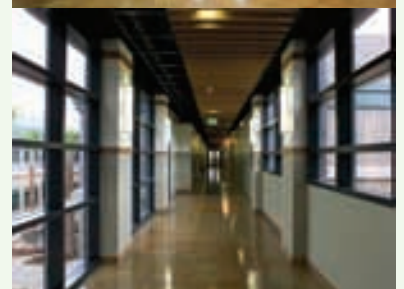
J. B. Masonry

BLOCK PRODUCER:

RCP Block & Brick, Inc.

OWNERS:

San Diego Zoological Society



Photography: Frank Domin, Domin Photography