

SUSTAINABILITY



70!
ANNIVERSARY

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STRUCTURAL
ENGINEERS



miyamoto.

save lives, impact economies

Miyamoto International is a global earthquake + structural engineering and project management company providing critical services that sustain industries and safeguard communities around the world.

We are experts in high-performance engineering that reduces lifecycle costs and produces a positive net impact on a structure's operation. We assess the performance of structures to identify specific vulnerabilities, and prioritize solutions that limit business interruption and reduce property damage.

Built on decades of earthquake and structural engineering experience in the field, our expertise supports how clients address the economic, political, social, sustainability and resiliency challenges in earthquake risk reduction and post-disaster recovery and reconstruction.

Miyamoto offices are strategically located worldwide in earthquake-hazard regions to positively impact economies and save lives.

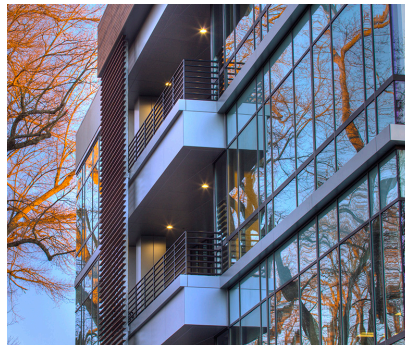
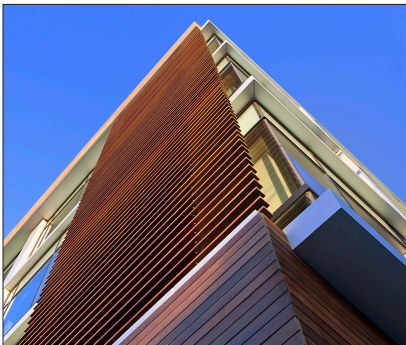
Sacramento
San Francisco
San Jose
Los Angeles
Orange County
San Diego
Reno
Washington, D.C.
Mexico
Costa Rica
Colombia
Haiti
Liberia
Italy
Turkey
India
Nepal
Japan
New Zealand

make the world a better, safer place.



LEED





2600 Capitol Office Building, also known as the Green Office Building, is a clean, modern facility that captures the essence of Midtown Sacramento. It is designed to meet sustainability standards with energy saving and water conservation features. The building consists of office space in the upper floors and retail space on the

ground floor. The building received an energy-efficient Gold rating for core and shell from the U.S. Green Building Council's Leadership in Energy and Environmental Design (LEED). The owner reports that their operating costs are less, helping them attract the best, forward-thinking tenants to the project.

Loftworks at 2600 Capitol

LEED Gold®

LOCATION:
Sacramento, CA

YEAR:
2008

CLIENT:
Loftworks (Owner), Fulcrum
(Developer), Lionakis (Architect)

CONSTRUCTION COST:
\$6.5 Million

SCALE:
55,000 SF

AWARDS:

2008 SACRAMENTO BUSINESS JOURNAL JUDGE'S CHOICE

2009 UNITED STATES GREEN BUILDING COUNCIL (USGBC) LEED GOLD CERTIFICATION



The University of California, San Diego (UCSD) Health Sciences and Medical Center was designed to provide office space for doctors and staff working in the adjacent hospitals. The three-story office building serves as a gateway to UCSD, providing consolidation of research and associated staff who were previously spread around several on-and off-campus locations. Situated behind the Thornton Hospital, the

75,000-SF tilt-up structure features offices, exam rooms, waiting rooms and a café as well as a research institute. The LEED Silver building improves efficiency and enhances collaboration by the medical staff. By utilizing tilt-up construction, the project was built in record time while minimizing disruptions to the surrounding medical facilities.

University of California, San Diego, East Campus Office Building

LEED Silver®

LOCATION:
La Jolla, CA

YEAR:
2011

CLIENT:
C.W. Driver
Gensler

CONSTRUCTION COST:
\$24 Million

SCALE:
75,000 SF

AWARDS

2012 TCA TILT-UP ACHIEVEMENT AWARD – OFFICE DIVISION



Architectural Nexus' adaptive reuse of an existing building resulted in a newly renovated office building that tackles California's energy and water crises head on with net zero energy and water consumption. The result is an extraordinary space showcasing the highest in sustainability standards. Once the 12-month performance period ends, the structure will be the first certified Living Building Challenge project in California. To date, only 11 such projects exist worldwide. Rainwater supplies all of the water needed and solar panels generate all

energy on site. Waste is also locally composted. These elements embrace the firm's core values of inspiration, stewardship and regeneration. Miyamoto was the expert structural consultant. The project was designed to be an inspiration for others to employ similar methods -- an example of how a building can regenerate the environment and community while inspiring new design trends. Located on Sacramento's historic R Street, the building is crafted of recycled wood and steel and locally sourced materials.

Architectural Nexus Office Renovation

LEED Double Platinum

LOCATION:
Sacramento, CA

YEAR:
2017

CLIENT:
Architectural Nexus

CONSTRUCTION COST:
\$3.3 Million

SCALE:
8,262 SF

AWARDS:

2017 ENGINEERING NEWS RECORD, CALIFORNIA, GREEN "BEST PROJECT" OF THE YEAR

SACRAMENTO BUSINESS JOURNAL, 2017 BEST REAL ESTATE PROJECT - SUSTAINABLE

AIA CENTRAL VALLEY, SUSTAINABLE RECOGNITION AWARD

ENR CALIFORNIA, BEST GREEN PROJECT

SEAO SUSTAINABLE DESIGN, LARGE PROJECT, AWARD OF MERIT

BUSINESS ENVIRONMENTAL RESOURCE CENTER, SACRAMENTO AREA SUSTAINABLE BUSINESS AWARD



West Gateway Place, a mixed-use, transit-oriented project in West Sacramento's Bridge District, was the only affordable housing project in the four-county region to win a cap-and-trade grant for 2015. Formerly known as Delta Lane, the project includes two multi-family, wood-framed buildings over steel framed retail and parking areas. The buildings include 175 affordable apartments for families and seniors. Miyamoto engineers were able to complete the design and

drawings on an accelerated schedule and received great compliments from the City of West Sacramento on the completeness of the drawings and design. West Gateway Place is one of 28 projects across the state that officials recommended for an affordable housing grant. The project was funded in part because of its close proximity to public transportation and the fact that the project was ready for immediate construction.

West Gateway Place

LEED Silver®

LOCATION:
West Sacramento, CA

YEAR:
2016

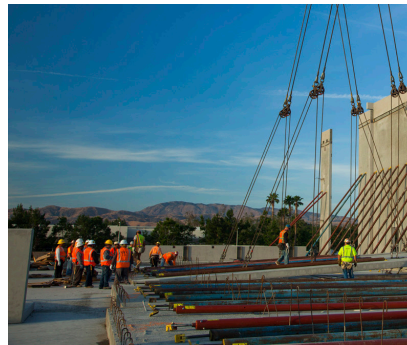
CLIENT:
Mogavero Notestine Associates

CONSTRUCTION COST:
\$19 Million

SCALE:
37,000 SF

AWARDS:

2017 NATIONAL ASSOCIATION OF HOME BUILDERS (NAHB) BEST IN AMERICAN LIVING, AFFORDABLE MULTI-FAMILY



This 1,013,460 square foot, LEED-Silver facility was originally planned as a speculative single- or multi-tenant industrial building. Prior to groundbreaking, a full-building tenant expressed interest in acquiring this planned Class A property. The design and construction of the

facility incorporates a layout that suits the requirements of the firm purchasing the property upon its completion. Redlands Logistics Center is strategically positioned on a 50.54-acre site, just one-half mile from Interstate 10, providing direct access to and from West Coast ports.

Redlands Logistic Center

LEED Silver®

LOCATION:
Redlands, CA

YEAR:
2015

CLIENT:
McShane Construction Company

SCALE:
1,013,331 SF



The Briar Patch is a co-op and natural food store in Grass Valley's Litton Retail Center. The co-op is Nevada County's first LEED Certified commercial building. Sustainable features of the building include easy access to public transportation, native plant landscaping and electronic sensor faucets to reduce water consumption, photovoltaic panels, solar energy for hot water distribution and use of recycled content for building materials. The roof structure

is a hybrid system including both prefabricated wood trusses and steel "bar joists." The structural walls are pre-cast concrete bearing/shear walls, and the floor and foundation system consists of concrete with high fly ash content that replaced 1,020 sacks, or 96 pounds, of cement. Using fly ash, a post-industrial recycled material, in lieu of cement reduces pollution and energy and material consumption without compromising material strength or quality.

Briar Patch Co-op Market

LEED Certified™

LOCATION:
Grass Valley, CA

YEAR:
2006

CLIENT:
Jeff Gold & Associates

CONSTRUCTION COST:
\$5.4 Million

SCALE:
2,044 Square Meters
22,000 SF



This project consists of a new single-multi-tenant industrial speculative facility located on a 29-acre site. The existing structure on the site was demolished and was redeveloped into a state-of-the-art, Class A, cross-dock distribution facility. The LEED-certified

building includes 32' clear height, 120 exterior dock doors, full-size truck courts and 175+ on-site trailer parking spaces. The facility was constructed of high-efficiency tilt wall panels providing an attractive, but low maintenance exterior.

Cherry Logistics Center

LEED Certified™

LOCATION:
Newark, CA

YEAR:
2014

CLIENT:
Cherry Logistic Center, LLC
McShane Construction Company

CONSTRUCTION COST:
\$20 Million

SCALE:
575,000 SF



Miyamoto International provided structural engineering for this 14,500-SF library located in Exposition Park. The building obtained LEED Gold Certification through sustainable elements such as Solar powered photovoltaic panels, donated by DWP, which were placed on the south side of the building and roof; landscape & exterior design to reduce heat island;

water use reduction by 30%; optimized energy performance; recycled & environmental safe content; regional materials; transportation alternative; and an additional commissioning agent has been retained to verify that the building systems are calibrated and performance meets the LEED requirements.

Dr. Mary McLeod Bethune Exposition Park Regional Branch Library

LEED Gold®

LOCATION:
Los Angeles, CA

YEAR:
2008

CLIENT:
Tetra Design

CONSTRUCTION COST:
\$7 Million

SCALE:
14,500 SF



Miyamoto provided design services for a new two-story police station with holding cells, separate parking garage and a vehicle maintenance and fueling facility. Confronted with a tight budget in a very unstable construction environment, Miyamoto engineers produced a highly

economical structure by making best use of the available design methods and materials. This included the use of precast concrete for the parking garage and a highly efficient design for the police station in order to reduce steel tonnage.

Los Angeles Police Department Rampart Station and Parking Structure

LEED Gold®

LOCATION:
Los Angeles, CA

YEAR:
2008

CLIENT:
Perkins and Will

CONSTRUCTION COST:
\$30.2 Million

SCALE:
57,000 SF Facility / 85,600 SF Garage
231 Parking Spaces



Sutter Health, North Bay Regional Surgery Center

LOCATION:
Novato, CA

YEAR:
2009

CLIENT TEAM:
Boulder Associates (architect)

CONSTRUCTION COST:
\$46 Million

SCALE:
36,000 SF

Miyamoto was part of the team that remodeled the three-story, 36,000-SF medical office building. The original building consists of concrete tilt-up wall with structural steel beams, columns and wood joists. The team developed a 10,000-SF surgery center on the first level. The upper two floors are roughly

13,000-SF apiece and house support services and office space. The project construction cost was \$46 million. The building incorporates many energy-saving features, and became one of the first buildings in California to receive LEED® Gold certification for Healthcare Centers.



Hot Italian, the 'green' pizza and panini restaurant and Italian clothing boutique, is part of a pilot program with the U.S. Green Building Council, seeking a certificate from LEED's retail program. This chic new eatery features

solar panels to heat water for the bathrooms and dishwasher, a special compost bin that digests most kitchen scraps except meat, recycled building materials and plenty of parking for motorcycles, bicycles, and scooters.

Hot Italian Restaurant

LEED Gold®

LOCATION:
Sacramento, CA

YEAR:
2008

CLIENT:
Hot Italian, LLC; Lepore Development

CONSTRUCTION COST:
\$14,000

SCALE:
6,070 square feet



Miyamoto was the structural engineer for the design-build team that developed a new student union for this Los Angeles City College (LACC) commuter campus. Located in the heart of the campus, the building is a landmark facility celebrating diversity and providing a central home for the LACC community. The student union provided greater opportunities for LACC to engage in meaningful

ways with its surrounding community. With programming inspired by contemporary and sustainable design, this 63,500-SF facility met LEED Gold certification. Toward this certification, Miyamoto assisted in identifying design solutions and building materials that utilized the building as a thermal mass to create maximum energy efficiencies.

Los Angeles City College, Student Union Building

LEED Gold®

LOCATION:
Los Angeles, CA

YEAR:
2011

OWNER:
Los Angeles Community College
District (LACCD)

CLIENT:
Harley Ellis Deveraux
S.J. Amoroso Construction

CONSTRUCTION COST:
\$32.6 Million

SCALE:
63,500 SF

PROJECT DELIVERY:
Design-Build



The University of California, Davis West Village is the largest planned net zero energy community in the United States. Miyamoto provided structural design services for the new student housing portion of this 220-acre, 1,860 bed new mixed-use district integrating student, faculty, staff housing and educational facilities, all centered on a civic village square. West Village housing was planned to be the largest zero-net energy community in the United States. As a net zero energy development, UC Davis West Village is

designed to generate as much energy as it consumes. With a high efficiency 4-megawatt solar power system, on sunny days, the solar panels generate more electricity than is needed for the site and send some back to the power grid. Elements of sustainable design are integrated into the site plan and sustainable elements were used during construction. This enables those living in West Village to limit energy consumption and enjoy the benefits of the local climate in a healthy environment.

University of California, Davis, West Village Student Housing

LEED Gold® Net Zero Energy

LOCATION:
Davis, CA

YEAR:
2013

CLIENT:
MVE Institutional Inc.

CONSTRUCTION COST:
\$48 Million

SCALE:
220 Acres



The Miramar College Library and Learning Resource Center (LLRC) has been designed to be the new flagship building on this rapidly growing San Diego Community College Campus (SDCCC). The building serves the campus and community not only as a library building, but also houses space for labs, classrooms, administrative offices and a 236-seat auditorium. The building has achieved a LEED Silver certification in accordance with the SDCCC's strategic goal of "becoming a sustainable advocate

within the community." SDCCC has a LEED Certified minimum requirement for all of their new and renovated campus buildings. The building's structural system is a structural steel special moment resisting space frame to not inhibit the large uninterrupted spaces demanded for this type of educational facility and also to provide a high-performance structure in an elevated earthquake risk environment. Additional features of interest include a large roof plaza and photovoltaic panel capacity on the roof.

Miramar College, Library and Learning Resource Center (LLRC)

LEED Silver®

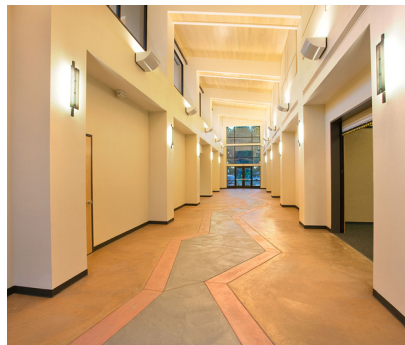
LOCATION:
San Diego, CA

YEAR:
2010-2011

CLIENT:
San Diego Community College
Campus (SDCCC)
Zagrodnik + Thomas

CONSTRUCTION COST:
\$27 Million

SCALE:
105,000 SF



The Gateway Science Museum showcases natural diversity and geologic history of Northern California. It allows university faculty and students unique opportunities to utilize both permanent and temporary exhibits in their course curriculum, with the museum providing a venue for traveling exhibits from around the world. The museum also allows the

University to display the wealth of specimens that it currently has as well as to collect and display objects entrusted to the museum for future exhibition and research. The museum was constructed to meet LEED Silver specification and has a community center that promotes science and mathematics education.

California State University, Chico, Gateway Science Museum

LEED Silver®

LOCATION:
Chico, CA

YEAR:
2008

CLIENT:
Anova Architects

CONSTRUCTION COST:
\$3 Million

SCALE:
17,500 SF

DELIVERY METHOD:
Design-Build



This high school improvement project consists of a new 14,000 square foot wing and renovations to the existing building, featuring 21st century classrooms with floor-to-ceiling windows and skylights in every room, a Cyber Café, group study areas, fitness center and cardio room. The structure consists primarily of wood-

framed construction with multiple sloping shed roofs, with structural steel and rod-braced diaphragms creating the Cyber Café's unique indoor/outdoor experience. This award winning contemporary high school is considered to be a model facility by and for educators across the country.

New Tech High School

LEED Gold®

LOCATION:
Napa, CA

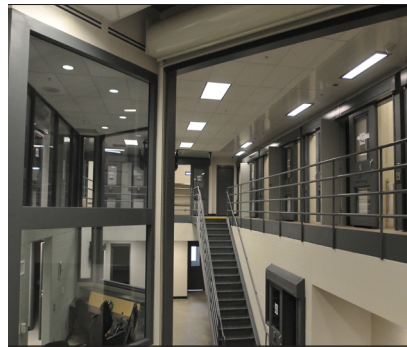
YEAR:
2010

CLIENT:
NTD Architects

CONSTRUCTION COST:
\$14 Million

SCALE:
4,131 Square Meters
44,473 Square Feet

AWARDS:
2013 NSBA Exhibition of School
Architecture Design Citation



The sustainable design for this complex features a new two-story police station and 16,000-SF jail, separate 400-space parking garage and 100-SF vehicle maintenance and refueling facility. The Harbor Station serves the communities of San Pedro, Wilmington, Harbor City and Harbor Gateway. Confronted with a tight budget in a very unstable construction environment, Miyamoto produced a

highly economical structure by making best use of the available design methods and materials while working within the sustainable design of this structure. This included the use of precast concrete double-tees in the garage and reducing steel tonnage in the station through the use of LRFD design methods. The project earned LEED GOLD Certified status.

Los Angeles Police Department Harbor Station and Jail

LEED Gold®

LOCATION:
Los Angeles, CA

YEAR:
2009

CLIENT:
Perkins and Will

CONSTRUCTION COST:
\$24 Million

SCALE:
50,000 SF



SUSTAINABILITY





The headquarters of “Diesel,” the famous Italian fashion brand, is a net-zero energy project. The complex is designed to create a meeting of urban and rural environments and includes an office building, data processing center, infrastructure facilities, kindergarden, fitness center, warehouses, vegetable patches, gardens, restaurant, auditorium and detached houses. The campus is designed to provide a functional and inspirational working space that accommodates employees, pedestrians, vehicles, visitors and

customers. The design required complex studies and the engineering of suspended slabs, inclined columns and wide span slabs with anti-seismic design criteria. Our scope included complete detailed structural design calculations and drawings, bill of quantities, technical specifications and the overall site construction management of the structural works. This included site supervision activities during the construction, quality check of the structural materials and load testing on site.

Diesel Headquarters

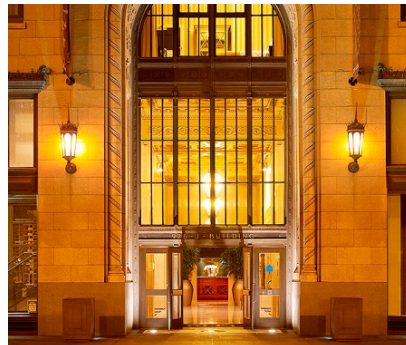
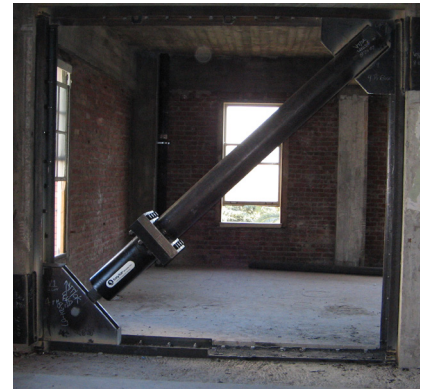
LOCATION:
Breganze, Italy

YEAR:
2010

CLIENT:
Diesel S.P.A., Jacobs Italia, Studio Ricatti

CONSTRUCTION COST:
160.000.000 €
(\$196 Million)

SCALE:
64.350 square meters
(69,2657 square feet)



The Citizen Hotel is one of Sacramento's most iconic historic structures. Originally designed as a mixed-use retail and office building, this 1920s, 14-story concrete structure was the first high-rise in the state capital. Also a State Registered Historic Place, in 2008 it opened as Sacramento's first Joie de Vivre boutique hotel. Reinforced-concrete moment frames and structural walls at the lower two floors make up the

lateral-force-resisting system of this building. Our seismic upgrade design included strategic placement of new fluid viscous dampers to floors five through eight to mitigate excessive inter-story drifts during an earthquake. Steel braces were also added at the first floor to provide lateral and torsional stiffness and to mitigate the harmful effect of full-length, reinforced-concrete walls on the two back faces of the building.

Citizen Hotel Historic and Seismic Rehabilitation

LOCATION:
Sacramento, CA

YEAR:
2008

CLIENT:
Rubicon Partners

CONSTRUCTION COST:
\$35 Million

SCALE:
135,000 SF

AWARDS:
2008 PEOPLE'S CHOICE AWARD,
ACRE DEVELOPER SHOWCASE



The three-story Valley Bureau Headquarters and 230-car parking structure effectively combines training, administrative and parking facilities in a single, efficient structure on a highly constrained former industrial site. The building is constructed cast-in-place concrete, with exposed concrete shear walls. Pile foundations are used, with locations carefully selected to minimize interference with abandoned

foundations from the site's previous occupant. The result is a highly functional space that meets today's needs with the ability to change with future demands. This facility is one of many new police stations funded by Proposition Q, all of which faced compressed schedules and tight budgets to maximize the return on the public investment.

LAPD Valley Bureau Headquarters & Traffic Division

LOCATION:
Van Nuys, CA

YEAR:
2008

CLIENT:
RNL Design
Los Angeles Police Department

CONSTRUCTION COST:
\$19 Million

SCALE:
34,000 SF



This Facilities and Maintenance Operations complex consists of a new office building, warehouse, workshops, recycling building and vehicle storage areas. It was designed to consolidate various maintenance services into a single location away from the central campus core, freeing up space in the heart of the campus for more development of academic and student service facilities. Although utilitarian

in its function, all buildings designed around a common architectural vocabulary featuring strong geometric shapes and variations in exterior color and texture. To achieve this, Miyamoto engineers worked closely with the architect, RNL Design, to create structures that used a combination of colored tilt-up concrete panels and concrete masonry, exposed steel braces and roof framing.

Los Angeles Harbor College Facilities and Maintenance Operations

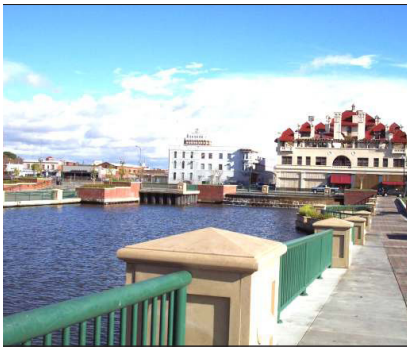
LOCATION:
Wilmington, CA

YEAR:
2008

CLIENT:
RNL Design

CONSTRUCTION COST:
\$6.8 Million

SCALE:
30,000 SF



The Stockton, Historic and Seismic Retrofit

LOCATION:
Stockton, CA

YEAR:
2004

CLIENT:
Applied Architecture

CONSTRUCTION COST:
\$24 Million

SCALE:
145,000 SF

AWARDS:
2007 PRESERVATION DESIGN AWARD
BEST REHABILITATION
CALIFORNIA PRESERVATION FOUNDATION
2005 BEST HISTORIC REHABILITATION
AFFORDABLE HOUSING
NATIONAL HOUSING AND REHABILITATION
ASSOCIATION

The Stockton, originally a 252-room hotel built in 1910 and listed on the National Register of Historic Places, lay vacant for 20 years. Miyamoto's high-performance earthquake engineering approach made this adaptive re-use project viable, preserving the integrity of the historic structure while providing new office and retail spaces, as well as affordable senior housing units. The seismic technology employed by Miyamoto provided a reduction of more than 20% in story drift, protecting existing brittle materials and reducing

member stresses to nearly elastic levels. In other words, the building performance was upgraded from potential collapse to near immediate occupancy after a major seismic event. Miyamoto performed non-linear dynamic analyses and designed seismic shock dampers and fiber reinforced polymer composites at the first story level to reduce seismic demand, producing an economical rehabilitation cost of \$9 per square foot.



The Visalia Police Substations are the first public office buildings in the state to use California rice straw bale construction. Use in the commercial market has been limited, but rice straw bales provide exceptional insulation, thermal and load bearing properties, as well as ballistic and

blast resistance. These two buildings combine elements of Spanish-style design with practical, energy-saving materials. The structure is comprised of straw bale and concrete block walls, open-web composite wood roof joists, and concrete slab-on-grade and foundations.

Visalia Police Station

LOCATION:
Visalia, CA

YEAR:
2006

CLIENT:
Indigo/Hammond and Playle
Architects

CONSTRUCTION COST:
\$3.1 Million

SCALE:
3,083 SF



As a part of the overall effort to achieve optimal energy efficiency, Miyamoto combined efforts with Green One Construction, the Oregon Department of Energy, and the Energy Trust of Oregon to test the structural sheathing over a rigid insulation lateral system. In acknowledgement of the fact that this system is not a prescriptive lateral system identified in the IRC or IBC, a

rigorous seismic cyclic testing program was implemented, by Oregon State University. As a result of this work, the system was approved and is in use for the Net Zero Sage Green project. It was determined that the ply over foam system was the most economical way to achieve the R33 wall system, a requirement based on the energy modeling.

Sage Green

LOCATION:
Portland, OR

YEAR:
2010

CLIENT:
Green One Construction

CONSTRUCTION COST:
\$6 Million



Miyako Hybrid Hotel

LOCATION:
Torrance, CA

YEAR:
2009

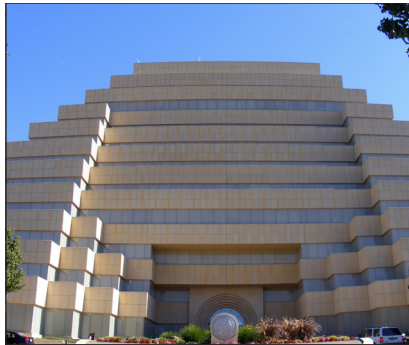
CLIENT:
Glumac
Langdon Wilson Architects
Matt Construction

CONSTRUCTION COST:
\$37 Million

SCALE:
209 Rooms

The Miyako Hotel is an eight-story, 209-room, eco-friendly boutique hotel and spa located in Torrance, California with easy access to the airport and beach. Miyamoto provided structural engineering services for the construction of this ecologically conscious business hotel. The design incorporates elements of sustainability, such as a solar paneled roof. It also

includes two-story high public spaces and a column-free ground-floor banquet hall. The Miyako provided a major boost to business travel and tourism in the City of Torrance upon its 2009 opening. The construction type is post-tensioned concrete floors with seismic and wind forces resisted by a combination of special concrete moment frames and shear walls.



This 11-story, pyramid-shaped mission-critical building is the Headquarters of the Department of General Services and became one of the first buildings in the United States to use seismic dampers. The structural system uses steel special moment resisting frames with fluid viscous dampers (FVD) to offer an elastic response to earthquakes and to avoid business disruption after earthquakes.

This structural system reduces displacements experienced by the building and its contents by reducing floor accelerations experienced by structural and non-structural components. The Ziggurat combines state-of-the-art engineering technology and a unique design resulted in an award-winning structure that is an icon of the Sacramento skyline.

The Ziggurat California Department of General Services Headquarters

LOCATION:
West Sacramento, CA

YEAR:
1998

CLIENT:
EM Kado and Associates

CONSTRUCTION COST:
\$60 Million

SCALE:
450,000 SF

AWARDS:
1999 STRUCTURAL ENGINEERING
EXCELLENCE AWARD, SEAOC
1998 OUTSTANDING CIVIL ACHIEVEMENT
AWARD IN BUILDING DESIGN,
AMERICAN SOCIETY OF CIVIL ENGINEERS



Working under the direction of the Architect, Miyamoto has been providing sundry structural engineering for both facilities and infrastructure projects. To date, some of the key projects executed under these contracts are:

Customer Service Center, E-House

Structural design to update the E-House exhibit with a modern showcase of energy efficient lighting, appliances and thermostats, as well as environmentally friendly materials for the home. The project is currently under construction.

Station A, Schematic Design

Prepared schematic designs for a structure to protect exterior transformers and switch gear on the east end of the yard, adjacent to a new residential building at 7th and H streets.

Headquarters Building, New Guardrail

Prepared design and detailing for a new handrail at the headquarters building. Worked closely with the team to create a solution that could be installed within the existing conditions and not hinder accessibility during construction.

Headquarters Building, Auditorium Renovation

Designed elements required for the auditorium renovation that included a new platform over an existing concrete slab, half-height walls with desktop and interior partition walls.

Headquarters Building, Rubicon Room

Structural design for renovation of the Rubicon room that included a new ramp and raised platform over an existing elevated concrete slab, half-height walls with desktop, and interior partition walls.

Other tasks orders include:

- Rancho Seco Power Plant, Diesel Tank Anchorage
- Fresh Pond Facilities Remodel
- Customer Service Center, Lobby Entry Door Upgrade

Sacramento Municipal Utilities District (SMUD), On-Call Services Contract

LOCATION:

Sacramento, CA

YEAR:

2009 to 2020

CLIENT:

Sacramento Municipal Utilities District (Owner)

Moniz Architecture (Architect)



The evaluated building is 44 floors total (39 floors above the ground, 5 underground) designed as 180m-high, multi-story reinforced concrete structure. The lateral resisting system consists of reinforced concrete shear walls and moment frames. The client hired Miyamoto to evaluate the building's performance for post-earthquake sustainability and confirmation for business continuity. The most serious post-earthquake

problems experienced in high-rise buildings can be summarized as facade damages restricting the building usage, shutdown of vertical transportation resulting in direct business interruption and plumbing damages preventing the water supply. The evaluation was carried out per the USRC* (United States Resiliency Council) Rating System's Safety, Damage and Recovery criteria.

High-rise Building in Istanbul

USRC Rated Evaluation

LOCATION:
Istanbul, Turkey

YEAR:
2017

CLIENT:
Mapfre Insurance

CONSTRUCTION COST:
\$48.5 Million

SCALE:
45,500 m²

**Miyamoto International is one of the founding members of USRC.*

LEED & SUSTAINABLE DESIGN

LEED

2220 Douglas Boulevard, LEED EB
Roseville, CA

2240 Douglas Boulevard, LEED EB
Roseville, CA

2600 Capitol Office Building,
LEED Gold
Sacramento, CA

Architectural Nexus, Office
Renovation
Sacramento, CA

Arco West Office Building, LEED
Silver (for Core and Shell)
Sacramento, CA

University of California San Diego,
East Campus Medical Office Building,
LEED Silver
San Diego, CA

Los Angeles City College, Northeast
Campus Renovation, targeted
LEED Silver
Los Angeles, CA

Boulder Associates Office,
LEED Gold
Sacramento, CA

Cherry Logistics Center
Newark, CA

Dr. Mary McLeod Bethune Regional
Branch Library, LEED Gold
Los Angeles, CA

Hot Italian Restaurant, LEED NC
Sacramento, CA

Los Angeles City College Student
Union Building, LEED Gold
Los Angeles, CA

Los Angeles Police Department,
Rampart Division Station, LEED Gold
Los Angeles, CA

New Tech High School, LEED Gold
Napa, CA

North Bay Regional Surgery Center,
LEED Gold
Novato, CA

Miramar College Library/Learning
Center, LEED Silver
San Diego, CA

The Grauer School, Pursuing LEED
Gold
San Diego, CA

Redlands Logistics Center
Redlands, CA

Sustainable Design

California State University, Chico
Gateway Science Museum
Chico, CA

Capital Unity Center
Sacramento, CA

Citizen Hotel
Sacramento, CA

Diesel Headquarters, Net Zero
Energy Project
Breganze, Italy

Green Meadows Gymnasium
Los Angeles, CA

Lafayette Park Community Center
Los Angeles, CA

Los Angeles Police Department,
Harbor Division Station and Jail
Los Angeles, CA

Los Angeles Police Department,
Valley Bureau Headquarters
Van Nuys, CA

Los Angeles Harbor College
Facilities, Maintenance and
Operations Center
San Pedro, CA

Miyako Hybrid Hotel
Torrance, CA

SMUD Corporate Headquarters,
Net Zero Project
Sacramento, CA

The Stockton
Stockton, CA

Visalia Police Stations
Visalia, CA

Ziggurat
Sacramento, CA

University of California, Davis West
Village Student Housing, Net-Zero
Energy Project
Davis, CA



Ziggurat
Sacramento, CA



Hot Italian Restaurant
Sacramento, CA



UC San Diego, East Campus Medical
Office Building, San Diego, CA



2600 Capitol Office Building,
Sacramento, CA

Sage Green, Net-Zero Energy Project
Portland, OR

CHIPS Certified

Scripps Ranch High School
Sustainable Technologies Building,
CHIPS certified
San Diego, CA

ENVIRONMENTAL POLICY

Miyamoto International is committed to preserving our environment. Our company mission statement to make the world a better means we engineer sustainable built environments around the globe, making this practice an integral part of our daily business operations. In particular, it is our policy to uphold health, safety, and environmental integrity to our business methods at all times. We will do so by adhering to the following principles:

COMPLIANCE AND PRECAUTION

We will comply with all applicable laws and regulations. We will implement programs and procedures to assure compliance. Compliance with health, safety and environmental standards will be a key factor in program implementation, training, and reaching our goals to achieve sustainable built environments around the world.

PROMOTING GREATER ENVIRONMENTAL RESPONSIBILITY

We will seek opportunities beyond regulatory compliance requirements to reduce risk to human health and the environment. We will employ management systems and procedures, such as disaster mitigation, to mitigate threats of structural failures that pose threats to human health, safety, and the environment. We will respond to emergency disasters, and seek out opportunities to rebuild sustainable communities in the event of a disaster. We will look for ways to minimize risk to our own employees and the communities which we operate by seeking out and employing the latest sustainable technologies and engineering methods available.

ENVIRONMENTALLY FRIENDLY TECHNOLOGIES

We will leverage existing and cutting-edge technologies to provide alternative, innovative, solutions to structural challenges. We will partner with building systems in research and design to test and develop new innovations in our industry. We will commit to seeking out seismic technologies and implementing them into our projects, creating safe, more disaster resilient communities, minimizing global footprint, and maintaining environmental integrity.

GREEN BUILDING

We will continue to use our LEED project expertise to design durable and functional buildings using renewable material resources. We will offer sustainable options and specify the resource reuse content for a variety of available structural materials. We will maximize our extensive experience evaluating and rehabilitating existing structures, maximizing the reuse of existing building shells. We will further our research and development for green products, LEED certified, and net-zero structures.

COMMUNICATION

We will communicate our policy commitments to our sphere of influence. We will measure and review our growth progress on an annual basis, and continue to seek out opportunities to improve our principles and our environmental performance.



UC Davis West Village, Student Housing
Davis, CA



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