TRANSPORTATION









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.





Miyamoto provided structural design and construction administration for all 17 stations on both phases of the Exposition Light Rail Line, which extends from Pico Station in Downtown Los Angeles to 4th and Colorado Station in Santa Monica. Both phases were developed under a Design-Build delivery method. Station elements included raised platforms, ramps, retaining walls, canopies, control/



signaling buildings, OCS bases and signage support. At the five gradeseparated stations, our work also included stairs, escalators, elevator shafts and machine rooms. All stations were designed to a common theme featuring cantilevered canopy roofs and undulating, highly sculpted structural steel elements at the canopies and elevator shafts.

Metro Exposition Light Rail Line, Phases I & II

LOCATION:

Phase I: Downtown LA to Culver City Phase II: Culver City to Santa Monica

YEAR:

Phase I: 2006 - 2010 Phase II: 2010-2016

CLIENT:

Phase I: Flatiron/Fluor/Parsons JV Phase II: Skanska Rados JV

PROJECT COST:

Phase I: \$868 Million Phase II: \$1.5 Billion

SCALE:

Phase I: 10 stations along 8.6 miles Phase II: 7 stations along 6.6 miles





Since 2011, Miyamoto has provided Conceptual, Preliminary and Advanced Preliminary Design services for the seven underground stations of the Metro Westside Subway Extension. This line, which will extend the Purple Line from its current Mid-City terminus to Westwood, includes station stops in the Museum District, Beverly Hills, Century City, UCLA and the Westwood VA Hospital. Our work has included the development of column-free



station cross sections for zones of high seismicity; time-history soil-structure interaction modeling of stations in soft soil; updating of Metro seismic design criteria to reflect increases in seismic demand; entrance, emergency exit and stair shaft design, and support of non-structural elements. This is part of the funding provided by Measure R for the Long Range Transportation Plan for Los Angeles County, in which more than \$4.2 billion has been budgeted.

Metro Westside Subway Extension Transit Corridor

Purple Line

LOCATION: Los Angeles, CA

YEAR: 2011 - Present

CLIENT: Parsons Brinckerhoff

OVERALL PROJECT COST: \$6.3 Billion





The Universal Pedestrian Bridge is the fulfillment of a decades-long quest by Metro and NBC Universal to provide a grade-separated path of travel between the Universal Studios Theme Park and the Universal City Red Line Station. The L-shaped, 400-foot bridge spans over both Lankershim Boulevard and Universal Hollywood Drive, and serves as a highprofile gateway to the Theme Park. The structure of this unique bridge consists of an exposed V-section steel through-truss supported on four tubular steel columns,



with a maximum span of nearly 150 feet across Lankershim Boulevard. Wind and seismic forces are resisted by steel buckling-restrained braced frames in the three elevator shafts and in the middle staircase. Extensive 3-D dynamic modeling of the structure was needed to ensure that it performed well under seismic, wind, vehicle collision and pedestrian loading. Miyamoto served as the design lead for the project and managed a full team of design professionals, including architects and civil, MEP, geotechnical and traffic engineers.

Metro, Universal Pedestrian Bridge

LOCATION: Universal City, CA

YEAR:

2016

CLIENT:

Los Angeles County Metropolitan Transportation Authority, Griffith Company

DESIGN TEAM:

Miyamoto International (Prime, Structural), Structural Integrity Systems (Bridge Design Consultant), Gruen Associates (Architecture), Moffatt & Nichol (Civil), Glumac (MEP), Diaz Yourman Associates (Geotechnical), Intueor (Traffic)

CONSTRUCTION COST: \$22 Million

SCALE: 400-Foot Bridge

AWARD:

ASCE OUTSTANDING BRIDGE PROJECT OF THE YEAR





Cosumnes River College Light Rail Station is a vital link in the proposed South Sacramento Corridor Phase 2, 4.3 mile light rail extension. Miyamoto provided structural engineering services for this \$3 million project, an intermodal terminal on grounds campus. The new terminal provides transit options to students, faculty and the surrounding community. This



Sacramento Regional Transit District project includes a 150-foot concrete pedestrian bridge, pedestrian ramp from bridge to vertical circulation, consisting of stairs and a ramp down to the platform, two large waiting shelter structures, four mini-high platforms with three shelters, operator restroom/break room building and shelter structures at bus berths.

Cosumnes River College Light Rail Station

Sacramento Regional Transit District

LOCATION: Sacramento, CA

acramento, C

YEAR: 2017

CLIENT: MFDB Architects

CONSTRUCTION COST: \$3 Million



The Gold Line, which originally ran from downtown Los Angeles to Pasadena, was extended in 2009 to also serve passengers in Little Tokyo, Boyle Heights and the East Los Angeles area. The entire project consists of six at-grade stations and two, 700-foot-long underground stations at Mariachi Plaza and at the corner of First Street and Soto Street. Twin tunnels with a diameter of 22 feet and 1.8 miles in length extend under Boyle Heights to link the two stations. Miyamoto Engineers provided

structural design services for the two underground stations including entrance structures, appendages and associated plaza and canopy structures. Our engineers also participated in the design of several at-grade stations, each of which featured a unique canopy design. Challenges included stations located near fault lines and restricted space for mechanical, electrical and plumbing systems.

Metro Gold Line Eastside Expansion

Mariachi & Soto Stations

LOCATION: Los Angeles, CA

YEAR: 2009

CLIENT: LRT Construction

CONSTRUCTION COST: \$898 Million

SCALE:

50,000 SF Mariachi Station 50,000 SF Soto Station

AWARDS:

2010 PROJECT OF THE YEAR AMERICAN SOCIETY OF CIVIL ENGINEERS

Miyamoto contributed to the development of design-build bridging documents for this heavy rail maintenance facility, which provides maintenance, storage, service and parts exchange for the SRT's fleet of rail cars and maintenance trucks.

The scope included: determining the gravity, wind and seismic resisting systems for the main structure; curtain wall system and overhead platforms; preliminary foundation; equipment support and pit design. Sacramento Regional Transit (SRT) Heavy Rail Maintenance Facility

LOCATION: Sacramento, CA

YEAR: 2001

CLIENT: Waterleaf Architects SCALE: 40,000 SF

Since 1999, Miyamoto has provided design services for Sacramento Regional Transit's light rail stations in the greater Sacramento metropolitan area. Miyamoto's work has included stations on each of the Gold, Blue and Green Lines, including the Sacramento Valley Intermodel Station and nine other stations throughout the cities of Sacramento, Rancho Cordova and

Folsom. Miyamoto recently completed the Cosumnes River College (CRC) station for phase two of the Blue Line South Corridor Extension. The CRC Station includes several passenger shelters for the light rail and bus transfer center, a pedestrian bridge over the east entrance to the campus, pedestrian ramps, mini-high structures and a break room and utility structures.

Sacramento Regional Transit Light Rail Stations

LOCATION:

Greater Sacramento, California

YEAR:

2017

CLIENT: Acanthus MFDB Architects

CONSTRUCTION COST: \$21.5 Million

SCALE: 11 Stations

This locomotive servicing facility incorporates bridge cranes, inspection and servicing pits, turntables and all other equipment necessary to maintain Amtrak's west coast locomotive fleet. Miyamoto engineers designed all foundations, pits and interior

inspection and service platforms. In addition, the Miyamoto team worked with the design team, owner and metal building manufacturer to adapt a standardized pre-engineered building shell to the specialized needs of the railroad industry.

Amtrak West Oakland Maintenance Facility

LOCATION: Oakland, CA

YEAR: 2005

CLIENT: STV Incorporated

SCALE: 300,000 SF

CONSTRUCTION COST: \$65 Million

A crucial link in the design-build Metro Gold Line light rail project, the Midway yard and shops provide maintenance, repair, cleaning, storage and revenue collection services for all trains on the 13-mile route between Los Angeles and Pasadena. Miyamoto engineers

designed all foundations, platforms and pits and worked hand-in-hand with the general contractor and metal building supplier to adapt typical metal building design methods to this unique facility. Metro Gold Line

Midway Yard & Shops

LOCATION:

Los Angeles, CA

YEAR: 2003

CLIENT: Tetra Design

CONSTRUCTION COST: \$80 Million

*STAFF EXPERIENCE

This 998-foot long underground concrete cut-and-cover box structure is a key link in the Los Angeles Metro Red Line subway system serving midtown Los Angeles and Los Angeles City College. The station features a 450-foot long center platform,

crossover and two entrance structures. The main entry plaza is highlighted by a dramatic 35-foot stainless steel canopy cantilevered at the entrance in the shape of a tilted airfoil and a 45-foot high skylight main entrance passageway.

Red Line Vermont/Santa Monica Station

LOCATION: Los Angeles, CA

YEAR: 1998

1000

CLIENT: STV Inc.

CONSTRUCTION COST: \$61 Million

SCALE: 998 Feet Long

Photo courtesy of Coffman Engineers

The Los Angeles Regional Transportation Management Center serves as the emergency command center for Caltrans District 7, California Highway Patrol, and Los Angeles County Metro, and was designed to remain operational after a severe earthquake. This five-story, base isolated building was built to allow emergency dispatchers to help manage freeway traffic and maximize roadway capacity, providing safer

travels for the general public. This essential services facility was designed using performance-based engineering to maximize its optimal performance. The building is supported on twentythree, 36-inch diameter rubber isolators, which allows it to move up to 24 inches relative to the ground. Seismic energy is dissipated through 300-kip fluid viscous dampers. The recommended system was a mat foundation. Caltrans Los Angeles Regional Transportation Management Center

LOCATION: Los Angeles, CA

YEAR: 2007

CLIENT: Holmes & Narver Inc.

CONSTRUCTION COST: \$40 Million

SCALE: 70,000 SF

For this new bus maintenance and operations facility Miyamoto used a variety of materials and structural systems to maximize the costeffectiveness of the various building functions. A combination of pitched steel trusses and masonry walls was used for the maintenance building, which emphasized strong natural lighting in the service bays. The bus wash was built in precast concrete due

to its functional resistance to moisture and corrosion, and for its local availability. Finally, an economical yet durable design for the Spanish mission style-themed administration building relied on a combination of structural steel and cold-formed exterior framing. This maintenance, operations, fueling and warehouse facility services 150 buses. Foothill Transit Irwindale Maintenance & Operations Facilities

LOCATION: Irwindale, CA

YEAR: 2002

CLIENT: RNL Design

CONSTRUCTION COST: \$14.5 Million

SCALE: 59,820 SF

The maintenance and replacement facility is an elegant combination of open-web steel joists, structural steel framing and tilt-up concrete walls. This maximizes the efficiency of the facility, which services all Caltrans-owned vehicles in the Los Angeles District.

Miyamoto International provided structural engineering design and construction administration services for the maintenance building with 30 service bays, a fueling station and an administration building. Caltrans District 7 Operations & Maintenance Replacement Facility

LOCATION: Sylmar, CA

YEAR: 2004-06

CLIENT: RNL Design, Pat McKelvey

CONSTRUCTION COST: \$20 Million

Miyamoto International is the Structural Engineer for this new facility, which includes a 17,000-SF Administration Building, an eight-bay 28,000-SF Maintenance Building, CNG Fueling Building and Yard, and Bus Wash.

Care was taken to provide the most economical structures possible while still meeting LEED Certification requirements and the operational needs of the owner.

Gold Coast Transit

LOCATION: Oxnard, CA

YEAR: Estimated 2016

CLIENT: Maintenance Design Group

CONSTRUCTION COST: \$35 Million

SCALE: 50,000 SF

Miyamoto provided structural engineering for the Metro Gateway Plaza, the major multi-modal transportation terminal serving Metropolitan Los Angeles. Located at historic LA Union Station, the complex includes the Patsaouras Transit Plaza, a multi-bay bus plaza featuring landscaping, seating, fountains and

a series of unique leaf-shaped bus shelters constructed over several stories of parking and pedestrian amenities; the Union Station East Portal, a sky-lit rotunda which connects Patsaouras Plaza to the Union Station subway stop and light rail and commuter rail platforms; and the 25-story MTA headquarters Building.

Metro Gateway Plaza/ Patsaouras Transit Plaza

LOCATION: Los Angeles, CA

YEAR: 2010

CLIENT:

Ehrenkrantz Eckstut and Kuhn; McLarand Vasquez Partners

This \$45.9 million design-build project consists of three separate buildings all working together for one purpose - the maintenance of the RTD vehicle fleet. The three buildings are CMU structures with steel frames and industrial/commercial finishes. The first of the three buildings is the 100,000-SF maintenance building that contains 20 repair bays, electronic repair shop, machine shop, signage shop, storage, parts room, brake shop, training rooms and offices. The second building is the 20,000-SF fuel brake tire building with four fueling, detailing and brake inspection lanes along with a tire shop. The last building is the 8,000-SF wash building that has two automatic bus wash lanes and two steam cleaning lanes. The buildings are on a 10 acre site that will predominantly be surfaced with concrete paving as well as oil/ separator and storm water interceptor systems to manage on-site drainage. Our team revised the original structural system that was provided within the criteria documents and was able to document a 30 percent savings in structural costs. San Joaquin Regional Transit District (SJRTD), Regional Transportation Center

LOCATION: Stockton, CA

YEAR: April 2015

DESIGN-BUILD ENTITY: McCarthy Building Companies, Inc. Dreyfuss & Blackford

CONSTRUCTION COST: \$45.9 Million

SCALE:

100,000 SF Maintenance Building 20,000 SF Fuel Brake Tire Building 8,000 SF Wash Building

Miyamoto provided structural engineering for the Advanced Conceptual Engineering phase of the Torrance Transit Park and Ride Regional Terminal. Miyamoto developed a cost-effective structural steel framing system which best

harmonized with the open, highly transparent architectural design concept of the 10,000-SF Terminal Buildings. Miyamoto also provided preliminary foundation design for the tensile canopy system and conceptual design for the parking garage.

Torrance Transit Park and Ride Regional Terminal

LOCATION:

Torrance, CA

YEAR: 2012

CLIENT:

RNL Design, Glumac

CONSTRUCTION COST: \$21 Million

SCALE: 15,000 SF

Miyamoto International provided peer review, final design and detailing assistance, and design services during construction for the Port of Los Angeles Berth 136-139 Trapac Terminal expansion. The project consists of nine structures: a five-story Administration Building, one-story Yard Operations Building and Driver Services Buildings, four canopy structures, a guard house, and the signature steel pedestrian bridge. We reviewed the structural construction documents and specifications for overall design intent, conformance to current codes and industry standards, appropriate level of completeness, and coordination with other disciplines For the pedestrian bridge, our services included independent analysis and structural calculations, review of Structural Engineer of Record design documents, detailing and CAD support. During construction, our work included reviewing contractor submittals and responding to questions from the field, coordinating foundations with existing utilities and providing structural field observation. Port of Los Angeles Berth 136-139 Trapac Terminal Expansion

LOCATION: San Pedro, CA

YEAR: 2012

OWNER: The Port of Los Angeles

CONSTRUCTION COST: \$50 million

SCALE:

21,170 SF Administration Building 5,665 SF Yard Operations Building 2,188 SF Pedestrian Bridge (including 2 towers)

Warehouse No. 1, a landmark waterfront building at the Port of Los Angeles built in 1917, is a six storyplus-basement, 500,000 square foot reinforced concrete structure. The primary goal of the renovation is to create a new, usable space with an occupancy and functionality other than the current heavy storage use. A scheme was developed to increase floor to floor heights and provide internal atriums while preserving prominent historic features. This will allow natural light into the building,

converting a compact storage structure into a comfortable office or museum environment. Special consideration was made to the foundations which consisted of driven piles, a solution to pressure grout. The loosely compacted man-made fill under the structure was proposed. Miyamoto provided a conceptual cost estimate and proposed structural modifications and foundation improvements to the client so they could make a cost-effective decision regarding their property. Warehouse No. 1 Renovation Feasibility Study Port of Los Angeles

LOCATION: San Pedro

YEAR: 2007

CLIENT: Wilson & Company

SCALE: 500,000 SF

Miyamoto provided a seismic risk assessment of selected Unified Port of San Diego properties located in San Diego, CA. The purpose of the study is to quantify the existing earthquake risk to certain properties by estimating the Probable Maximum Damage (PML). Associated with the PML for each property is an estimate of downtime or business interruption (BI). Secondarily, conceptual retrofitting or other actions were proposed that are likely to substantially reduce the

expected level of damage. A twoday site survey was performed and reviews of available building and pier construction drawings and pier soils reports were performed. Drawings were not available for all properties and some properties only had limited drawings available. Site specific soils reports were not available for most of the buildings, so general published soil information for the region was referenced. Port of San Diego Earthquake Risk Assessment

LOCATION: San Diego, CA

YEAR: 2007

CLIENT: Unified Port of San Diego

SCALE: 14 Properties/Buildings

TRANSPORTATION EXPERIENCE

Aviation

Burbank Airport, Regional Intermodal Transportation Center (RITC) Burbank, CA

Burbank Airport, Elevated Walkway Burbank, CA

Fresno Air Terminal Fresno, CA

John Wayne Airport, Maintenance Building, Design-Build Costa Mesa, CA

LAWA, Earthquake Business Interruption Loss Control Program Los Angeles, CA

LAWA, LAX Theme Building, Seismic Retrofit Los Angeles, CA

LAX Bradley West Enabling Projects Los Angeles, CA

LAX Airport, Garage & Terminal Elevator Rehabilitation Los Angeles, CA

LAX Airport, Southwest Terminal I Modernization Los Angeles, CA

LAX Airport, TWA Hangar Feasibility Study Los Angeles, CA

LAX Airport, Police Headquarters Los Angeles, CA

LAX People Mover System, Maintenance Facility Stations

Los Angeles, CA

Madera Municipal Airport Tee Hanger Buildings Madera, CA

Otopeni International Airport, Finger Building Bucharest, Romania

Otopeni International Airport Development - Bucharest Bucharest, Romania

Toussaint Louverture International Airport Port-au-Prince, Haiti

Bridge Design

3rd Bosphorus Suspension Bridge Crossing for Chodai Feasibility Study Istanbul, Turkey

3rd Bosphorus Suspension Bridge Crossing for Mitsubishi Survey Studies Istanbul, Turkey

Kwang-Ahn Grand Bridge Project Pusan, South Korea

Metro Universal Pedestrian Bridge Universal City, CA

Regional Transit, Cosumnes River College Station Pedestrian Bridge Sacramento, CA

Tokyo Bay (Rainbow) Bridge Project Tokyo, Japan

Tokyo Bay Suspension Bridge Health Check Analyses Tokyo, Japan

Tokyo Metropolitan Expressway Bridges Tokyo, Japan

Bus and Fleet Facilities

Caltrans, District 7 Operations & Maintenance Replacement Facility Sylmar, CA

Colusa County Transit Maintenance Facility Colusa, CA

Elk Grove School District Transportation Building Elk Grove, CA

Foothill Transit Irwindale Maintenance and Operational Facilities Irwindale, CA

Gateway Center Los Angeles, CA

Gold Coast Transit Oxnard, CA

Glendale Beeline Transit, Bus Maintenance Facility Glendale, CA

Long Beach Fleet Services Facility Long Beach, CA

LAX Airport Theme Building Los Angeles, CA

Toussaint Louverture International Airport Port-au-Prince, Haiti

MTA Division 9 Bus Maintenance Facility Expansion Los Angeles, CA

Metro Gateway Plaza, Patsaouras Transit Plaza Los Angeles, CA

Samtrans Bus Maintenance Facility Expansions San Carlos & South San Francisco, CA

San Joaquin Regional Transit District (SJRTD), Regional Transportation Center Stockton, CA

Torrance Transit Park and Ride Regional Terminal Torrance, CA

Emergency Management Center

Caltrans Los Angeles Regional Transportation Management Center Los Angeles, CA

Marine

National City Marine Terminal National City, CA

Old Sacramento Marina Structures Sacramento, CA

Port of Long Beach - Pier J Long Beach, CA

Port of Los Angeles, Berths 121-126 Container Terminal San Pedro, CA

Port of Los Angeles, Harbor Administrative Building Waterproofing Investigation San Pedro, CA

Port of Los Angeles, Marine Administrative Building & Structures San Pedro, CA

Port of Los Angeles, Mitsui Terminal San Pedro, CA

Port of Los Angeles, NYK Terminal Facilities San Pedro, CA

Port of Los Angeles, On-Call Services Los Angeles, CA

Port of Los Angeles, Trapac Terminal Facilities, Berths 136-139 (2012) San Pedro, CA Port of Los Angeles, Trapac Terminal Facilities, Berths 136-139 (1992) San Pedro, CA

Port of Los Angeles, Warehouse No.1, Renovation Feasibility Study and Seismic Evaluation San Pedro, CA

Port of San Diego Earthquake Risk Assessment

San Diego, CA

Port of San Francisco Waterfront Structure Investigation San Francisco, CA

Sacramento Yacht Club Sacramento, CA

Yoncat Onuk Shipyard Istanbul, Turkey

Rail

Amtrak West, Oakland Maintenance Facility Oakland, CA

Amtrak West, 8th Street Yard Maintenance Facilities Los Angeles, CA

Amtrak West, Seattle Maintenance Yard Design Review Seattle, WA

Amtrak-Folsom Corridor Light Rail Extension, Amtrak Extension, 7th and I County Center Station Sacramento, CA

Amtrak-Folsom Corridor Light Rail Extension, Amtrak Extension, 8th and K Station Sacramento, CA

BART-Silicon Valley Rapid Transit Maintenance Facility San Jose, CA

Istanbul Light Rail Transition System Istanbul, Turkey

Istanbul Light Rail Transition System Feasibility Study Istanbul, Turkey

Istanbul Transportation Pilot Project for Kadikoy (JICA and ALMEC) Istanbul, Turkey

Istanbul Urban Transportation Master Plan Feasibility (JICA and ALMEC) Istanbul, Turkey

Joint Powers Board Lenzen Maintenance Facility

Metro Red Line Vermont/Santa Monica Station Los Angeles, CA

Sacramento Rail Transit Heavy Maintenance Facility Sacramento, CA

Metro, Exposition Light Rail Line, Phase I and II, Design-Build Downtown Los Angeles to Culver City, CA

Metro, Exposition Line, Storage and Maintenance Facility (Design Only) Los Angeles, CA

Metro Exposition Light Rail Line Expansion Los Angeles to Santa Monica, CA

Metro Gold Line, Chinatown Aerial Structure Los Angeles, CA

Metro Gold Line Eastside Extension Mariachi Plaza Station Los Angeles, CA

Metro Gold Line, Eastside Extension First/Soto Station Los Angeles, CA

Metro Gold Line, Midway Yard and Shops Los Angeles, CA

Metro Green Line, Light Rail Airport Extension Stations Los Angeles/El Segundo, CA

Metro Purple Line, Subway Extension Los Angeles, CA

Metro Red Line, Cesar Chavez/Soto Station Los Angeles, CA

Metro Red Line, First/Lorena Station Los Angeles, CA

Metro Red Line, Vermont/Santa Monica Station Los Angeles, CA

Metro Westside Subway Extension Transit Corridor, Phase I Downtown Los Angeles to Westside, CA

Sacramento Regional Transit Light Rail Stations Greater Sacramento, CA

Sacramento Regional Transit, Amtrak Folsom, CA

Sacramento Regional Transit, Broadway Station Sacramento, CA

Sacramento Regional Transit, Cosumnes River College Station Sacramento, CA

Sacramento Regional Transit, Meadowview Station Sacramento, CA

Sacramento Regional Transit, Mills Station Rancho Cordova, CA

Sacramento Regional Transit, Folsom Corridor Light Rail Extension, Glenn Station Folsom CA

Sacramento Regional Transit, Folsom Corridor Light Rail Extension, Hazel Station Rancho Cordova, CA

Sacramento Regional Transit, Folsom Corridor Light Rail Extension, Historic Folsom Station Folsom CA

Sacramento Regional Transit, Folsom Corridor Light Rail Extension, Iron Point Station Folsom CA

Sacramento Regional Transit, Cosumnes River College Light Rail Station Sacramento, CA

Sacramento Rail Transit District, Heavy Maintenance Facility Sacramento, CA

San Joaquin Regional Transit District (SJRTD), Regional Transportation Center Stockton, CA

Metro Universal Pedestrian Bridge Universal City, CA

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