

STATEMENT OF QUALIFICATIONS

MORGNER

HEAVY RAIL / LIGHT RAIL

Transportation that moves you.

Morgner Construction Management
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FIRM PROFILE

MORGNER

About US

Morgner was founded in 1992 and has served a diverse set of clientele both in the public and private sectors. Morgner is a **certified Women-Owned, Minority-Owned, LGBTQ Small Business** firm with more than 27 years of providing professional and technical services to assist in the planning, design, and construction of multi-modal transportation and other major capital projects for public agencies, including rail transit, highways, bridges, ports, and airports. Morgner offers capital project management capabilities that provide value at each stage of the project development and implementation cycle, from early phase planning and feasibility assessments to critical design and construction phase implementation support services.

Summary of Capabilities

Morgner offers a wide range of Program Planning, Design Management, Construction Management, and Risk Management. An example of some of our risk management services include Pre and Post Construction Photo-Documentation, Geotechnical Instrumentation and Monitoring, Construction Noise and Vibration monitoring, Energy Services for Transportation, Aviation, Public Works, and Institutional projects. Our team members work on a wide variety of projects with involvement in the development and execution of large programs that involve facility and infrastructure projects, engineering support, design management, assessments and inspections, and economic and financial planning in support of capital programs and asset management programs.

Locations

In the past five years Morgner has expanded its services across the west coast from serving only the State of California to now serving the State of Washington. We are headquartered in Los Angeles with offices in San Diego, San Francisco, Orange County and Seattle.



Summary of Morgner Services

CONSTRUCTION SERVICES

- Pre-Post Construction Photo Documentation
- Structural Assessments
- Noise/Vibration Monitoring
- Settlement Monitoring

PROGRAM MANAGEMENT

- Owner's Rep Consulting
- PM/CM
- Project Controls

QUALITY MANAGEMENT

- Program Quality Management
- Design Quality Assurance
- Construction QA/QC

MORGNER ENTERPRISE

- P3 Consulting Services
- Economic/Fiscal Planning
- Integrated LVC, QOZ, EIFD Strategies

EV/ RENEWABLE ENERGY (D'ALFONSO ELECTRIC/EV STRUCTURE)

- EV Charging Stations + EVSE Services
- Solar Energy D/B + Maintenance
- Energy Efficiency Consulting and Retrofit
- Full-Service Electrical Contracting

HEALTH & SAFETY CONSULTANCY (RMP SAFETY SERVICES, VETERAN-OWNED)

- Health and Safety Training
- Tunnel Safety Consulting Services

MORGNER SERVICES

Morgner is a collection of experts working on innovative solutions to some of the most complex projects. We connect expertise across services, markets, and geographies to deliver transformative outcomes. Regionally, we assist or manage the design, build, operations, and maintenance of many projects that improve our environment and improve people's lives.

Quality Assurance/ Control + Commissioning Management Services

Morgner will provide a comprehensive quality approach that we have implemented on over 20 projects across the United States. Our proven quality program encompasses design, construction, and commissioning in an ISO 9001-compliant system that minimizes rework and provides schedule certainty. Our quality philosophy starts with an executive commitment and culture that strives for excellence and continuous improvement throughout project execution. Our Construction Quality Management would have the responsibility to establish and administer the Construction QC Plan. Everyone on the Project will be required to understand, implement, and support the comprehensive construction quality approach. Our construction quality approach illustrated in Figure 1 clearly defines and establishes expectations, processes, procedures, and responsibilities; and adheres to the contract and International Standards Organization (ISO) 9001:2008; and can be summarized as "Plan, Do, Check, Act" cycle. Our overall validation and qualification strategy for the NAVFAC Projects places strong emphasis on a practical and integrated approach to system testing and commissioning (T&C) and final acceptance. This approach which is systematic, progressive, and transparent will produce a smooth process for installation, inspection, and testing and commissioning ensuring compliance to the Project's requirements and approved designs.



Figure 1.0 - Construction Quality Control Cycle based on the International Standards Organization (ISO) 9001:2008 performance measure. Plan, Do, Check, Act Cycle.

Project Controls

Morgner provides effective solutions to a wide variety of complex project issues faced by the construction, design and engineering industries. We offer quality staff for projects of all scopes and complexities and are available for as long as necessary. Our in-house project controls professionals include:

- Project Controls Manager
- Cost Managers
- Planning/Scheduling Managers
- Change Management Personnel
- Estimating Personnel
- Document Control Personnel

BIM/CAD Services (Design/ Support/ Review/Value Engineering)

Morgner's approach to BIM Management calls for collaboration as well as embracing innovation in the process of design, construction, and post construction phases. We use it to its fullest potential to explore and evaluate a project's constructability, improve cost reliability, visualize construction processes through 4D simulation and clash detection, and most importantly, facilitate greater levels of collaboration and interoperability within the design environment to improve decision making, save time, and save costs. Our BIM/CAD Management services support all phases of a project's lifecycle including:

- 3D/4D/5D integration services
- As-built conditions
- Asset management information
- Bid package development
- Clash detection and resolution
- Construction documentation
- Major trades coordination MEP (Mechanical, Electrical and Plumbing)
- Project conception and initiation
- Project construction
- Project cost estimating & engineering
- Project operation and maintenance

Project Planning/ Scheduling

Morgner utilizes state-of-the-art project planning and scheduling softwares to help our clients through every stage of the project life cycle. We use a cloud-based construction management software that provides the visibility and information required to deliver each project on time and on budget. Our capabilities include:

- Critical Path Method (CPM) scheduling
- Schedule update (On and off-site meetings)
- Develop and maintain cost loaded and resource loaded schedules
- Time impact analysis
- Preliminary & initial schedules
- Connect all of your project data with BIM and VDC

Environmental Compliance

Our Team will provide will provide qualified consultants that are knowledgeable and capable of performing and assisting with the following EH&S regulatory programs which include:

- California and Federal Hazardous Materials/ Waste Management

Regulations

- CUPA related programs (HMBP, APSA, UST, Cal ARP)
- SPCC Regulations
- Air Quality Permitting
- Annual Emission Reports (AER)
- Tier V Permitting
- Toxic Release Inventory (TRI)
- Industrial Storm Water Permitting and Reporting
- Cal-OSHA/OSHA compliance.
- Wastewater Discharge Permitting

Noise and Vibration Planning & Compliance Monitoring

Morgner's staff have extensive experience with noise and vibration assessment, producing noise and vibration control plans, which identifies impacting activities, predicting noise and vibration levels. Our services cover commercial, industrial, and transportation noise assessment, vibration analysis, and noise control services to assist our clients with land use planning, environmental compliance, design, and operations.

These services includes ensuring compliance with specified levels and identifying locations of measurements frequency type, duration of measurements, and equipment specifications.

Air Quality Monitoring and Reporting

Morgner installs and maintains air quality monitors that record and report PM 2.5 and PM 10 thresholds at and around construction sites. Our air quality monitors can also monitor concentrations of emissive gases at sites including but not limited to: Volatile Organic Compounds, Methane, Carbon Monoxide, Ozone, and more. We can also deploy staff to spot monitor air quality at construction and industrial sites.

Storm Water Pollution Prevention Plans (SWPPP)

We have prepared and managed several hundred SWPPPs and storm water related projects that range from Caltrans projects, linear underground/ above-ground utility projects, dam improvement projects, BMP effectiveness studies, small to large residential developments and commercial developments. We will work with you to determine the correct BMP's to implement on your project, save you money and maintain compliance with the General Construction Permit.

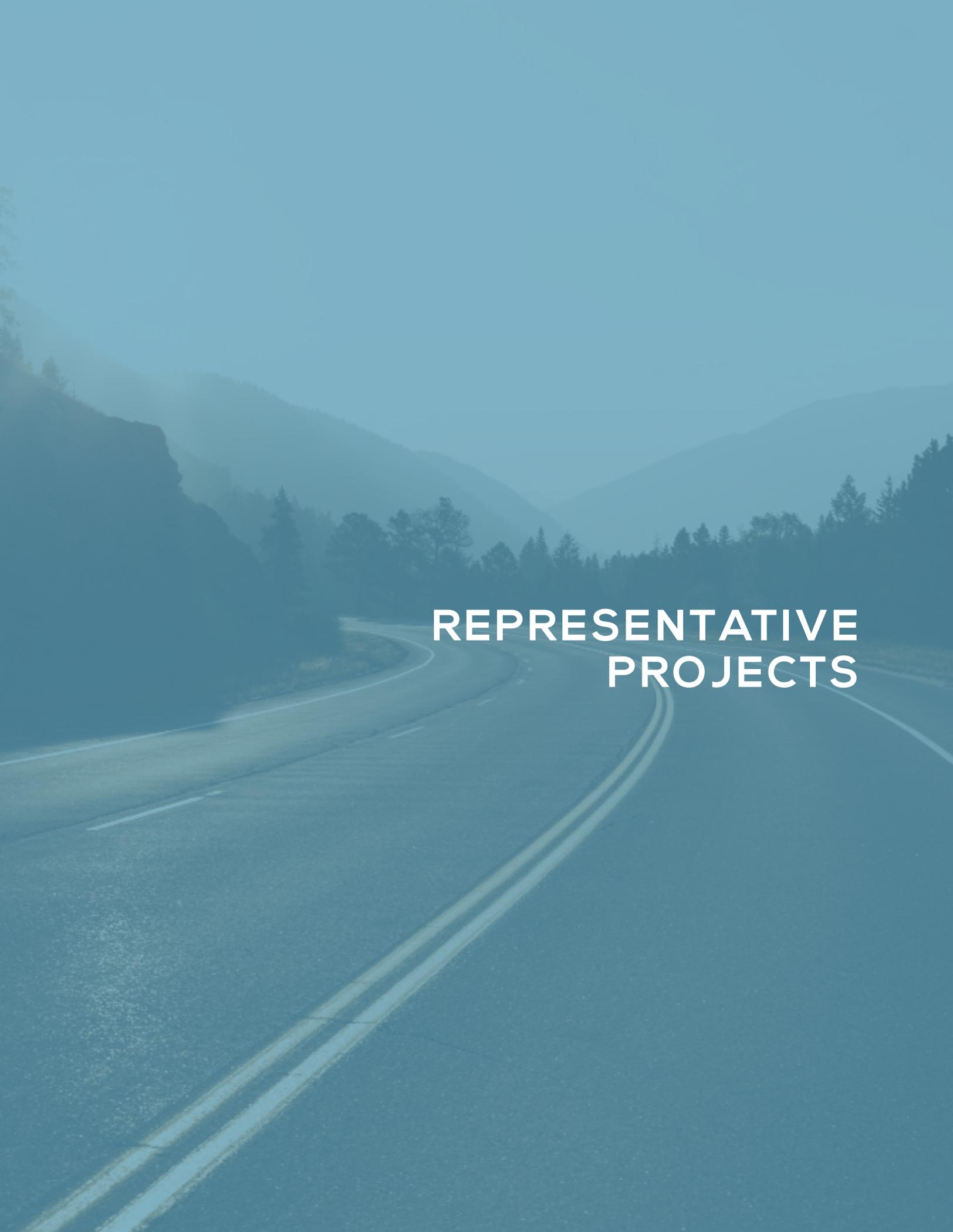
Geotechnical Instrumentation & Monitoring Services

Geotechnical Instrumentation is the ability to determine movement in either the ground or surrounding structures utilizing sophisticated equipment.

Movement on the order of tenths of a millimeter are recorded and immediately sent via cellular connection to our servers where it's combined with other data and control points to alert you to when you either need to be cautious, stop, or evacuate your jobsite.

Our Automated Total Stations (AMTS) provide an alternative to high priced surveyors shooting points at a daily or hourly rate. Our AMTS units work 24 hours a day, multiple times a day, operating days, nights, weekends, and holidays working tirelessly to provide you with real time data and analytics. Our team members provide

- Automated Instrumentation Monitoring
- Daily/weekly/monthly reporting
- Data management system
- Furnish/Installation of geotechnical instrumentation
- Instrument removal, abandonment, & restoration
- Instrumentation personnel
- Maintenance services
- Provision of an instrumentation & monitoring plan



**REPRESENTATIVE
PROJECTS**

PROJECT EXPERIENCE

Downtown Seattle Transit Tunnel (DSTT) Capital Improvement Project

SOUNDTRANSIT, SEATTLE, WA



Photos courtesy of newsline.org

DELIVERY METHOD:

On-Call General Engineering Consulting Services

CONSTRUCTION VALUE:

\$896M

PROJECT COMPLETE:

2023

AGENCY:

SoundTransit & King County Metro

PRIME:

WSP

MORGNER ROLE:

Construction Management Services: Project Controls, Cost Estimating, Scheduling Services

PROJECT DESCRIPTION:

The DSTT Capital Improvements project involves updating systems and preparing for the anticipated increase in demand from expanded light rail operations. The condition assessments conducted by King County Metro and Sound Transit have identified several areas for improvement which include safety and security updates, lighting improvements, utility updates, elevator/escalator repair, deep cleaning, and art restoration.

Morgner is working as an extension of WSP's program management team to provide project controls services to include cost estimating and scheduling.

PROJECT EXPERIENCE

Silicon Valley Berryessa Extension Project C700

SANTA CLARA VALLEY TRANSPORTATION AUTHORITY (VTA), SAN JOSE, CA



DELIVERY METHOD:

Design Build

CONSTRUCTION VALUE:

\$896M

PROJECT COMPLETE:

2014

AGENCY:

Santa Clara Valley Transportation Authority (VTA)

PRIME:

Skanska-Shimmick-Herzog JV

MORGNER ROLE:

Pre-Construction Photo Documentation Services and Noise and Vibration Control Plan and Monitoring



Photos courtesy of Skanska-Shimmick-Herzog JV Twitter feed. @sshjv

PROJECT DESCRIPTION:

This project is extending the Bay Area Rapid Transit (BART) light rail commuter system south from Fremont to San Jose, CA. The Berryessa Extension is the 10-mile, two station first phase of that extension, called BART Silicon Valley. The project's alignment proceeds from the planned Warm Springs BART Station in Fremont on the former Union Pacific Railroad (UPRR) right-of-way and ends near Las Plumas Avenue in the City of San Jose. The project crosses through three cities and many densely populated areas, and include at-grade alignment, trench, and aerial cross-sections.

Both stations will include multi-story parking garages, and connections to nearby highways, existing bus transit, as well as VTA's light rail system. The systems component includes: traction power, a high voltage substation, an Automatic Train Control system, and a communication system.

Morgner coordinated four outreach campaigns for inspection of vulnerable properties, the collection of data, the analysis of noise and vibration plans, and the generation of reports to be submitted to the client in a timely manner. We provided pre-construction photo documentation and noise and vibration services.

PROJECT EXPERIENCE

San Mateo Hwy-101 Managed Lanes

CALTRANS, SANTA CLARA, CA



DELIVERY METHOD:
CMGC

CONSTRUCTION VALUE:
\$11.9 Million

PROJECT DURATION:
02/2020 - 07/2022

AGENCY:
CalTrans

PRIME:
Kiewitt

MORGNER ROLE:
Preconstruction Photo and Video Documentation Services and Vibrating Monitoring

PROJECT DESCRIPTION:
The San Mateo 101 Express Lanes Project is a multi-year, multi-agency project initiated to reduce traffic congestion and encourage carpooling and transit use on U.S. 101 in San Mateo County.



Photos courtesy of dot.ca.gov Website

The project will create 22 miles of express lanes on U.S.101 from the San Mateo County/Santa Clara County line to I-380 in South San Francisco. The San Mateo 101 Express Lanes will seamlessly connect to the express lanes being constructed in Santa Clara County.

Morgner provided vibration services where we installed monitoring equipment 24 hours before piling started to establish baseline levels. We continuous vibration monitoring was carried out through piling operations within 100 feet of the vibration sensitive receivers. Where the peak particle velocity criteria was exceeded an automated text message or email was sent to Designated Responsible Person immediately indicating the times of the exceed and the level. The vibration monitors were relocated when working moved closer to another receiver.

PROJECT EXPERIENCE

LA Metro Purple Line Phase 2 Construction Management Support + Environmental Services

LOS ANGELES METROPOLITAN TRANSPORTATION AUTHORITY, LOS ANGELES, CA



RODEO STATION

DELIVERY METHOD:

Design Build

CONSTRUCTION VALUE:

\$2.4B

PROJECT DURATION:

2017-2024

AGENCY:

Los Angeles County Metropolitan Transportation Authority

PRIME:

Kleinfelder, Inc.

MORGNER ROLE:

Construction Management, Cost & Schedule Management + Environmental Engineering Consulting Services: SWPPP and Noise Monitoring

PROJECT DESCRIPTION:

The second section of the Purple Line Extension Transit Project includes 2.59 miles of additional tracks to Metro's Rail system and two new stations at Wilshire/Rodeo and Century City/Constellation. The project received full Federal funding from the U.S. Department of Transportation in January 2017 and is now under construction. Construction for Section 2 is planned to begin in 2018. The extension is expected to begin operations by 2025 and will continue the Purple Line from Miracle Mile through Beverly Hills and into Century City.



CENTURY CITY STATION

Morgner serves as an extension of the Program/ Construction Management team assisting with project oversight, quality control measures and management of various scopes including cost estimating, schedule management, office engineering and environmental compliance with air quality, noise, vibration, SWPPP and ground water/hazardous material removal such as petroleum affected soil, USTs and asbestos/lead contaminated pipes.

PROJECT EXPERIENCE

LAX Automated People Mover (APM)

LOS ANGELES INTERNATIONAL AIRPORT, LOS ANGELES, CA



Photos courtesy of LAWA

DELIVERY METHOD:

P3/ Design Build

CONSTRUCTION VALUE:

\$4.9 Billion

PROJECT DURATION:

2018 - 2023

AGENCY:

Los Angeles World Airports (LAWA)

PRIME:

LINXS, JV

MORGNER ROLE:

Program Quality Assurance Management

PROJECT DESCRIPTION:

The APM is an electric train system on a 2.25-mile elevated guideway with six stations—three outside the terminal loop and three inside. Including the Aviation/96th station, a Consolidated Rent-A-Car Center (Conrac); the Intermodal Transportation Facilities West, for pick-ups, drop-offs, parking, shuttle service, check-in, food service and shopping; and 33 sites in LAX's central terminal area connecting to the airline terminals with a convenient pedestrian walkway system.

We are providing construction quality management and quality records document administration for the project. Our early tasks and work efforts were to setup and establish guidelines for performance-based monitoring, establishing the Developers Quality program and plan, Developers Design Quality plans, and the Developers Construction Quality Plan. Once implemented, our quality management staff will review Key Performance Indicators to allow for monthly reviews of design quality management and construction quality management conformance/nonconformance and the issues resolved.

PROJECT EXPERIENCE

LA Metro Division 16 Southwestern Yard

LOS ANGELES, CA



DELIVERY METHOD:

Design Build

CONSTRUCTION VALUE:

\$172 Million

PROJECT DURATION:

2016 - 2018

AGENCY:

Los Angeles County Metropolitan Transportation Authority (METRO)

PRIME:

Metro, Hensel Phelps/Herzog, JV

MORGNER ROLE:

Quality Assurance/Quality Control Management

PROJECT DESCRIPTION:

The Project is a new Metro Light Rail Vehicle (LRV) operations and maintenance facility constructed within an approximate 18-acre site located in the City of Los Angeles.



Morgner provided Program quality management oversight of entire project, consisting of track, rail, building materials, and site grading. We were responsible for offsite fabrication shop inspection protocols and procedures with inspectors in various locations across the country. We perform the overall quality and technical manager for the first Automated People Mover pile bent placed within the project interior for the LAWA Lamp Program.

In addition, we performed field and office duties as a representative of the joint venture and managed a team of inspectors reviewing various scopes of work, holding weekly meetings with both quality control staff and quality assurance owner's representatives.

We provided review of all testing and commissioning of MEP, Train Control, Shop equipment, and preparation of pre-functional checklists for all trades. We supported the Engineer of Record for all interface testing of Main Crenshaw Line.

PROJECT EXPERIENCE

Westside Purple Line Extension Section 1, Advance Utility Relocation

LOS ANGELES METROPOLITAN TRANSPORTATION AUTHORITY, LOS ANGELES, CA



DELIVERY METHOD:

Design Build

CONSTRUCTION VALUE:

\$3.3 Billion

PROJECT DURATION:

2015 - 2023

AGENCY:

Los Angeles County Metropolitan Transportation Authority (LACMTA)

PRIME:

Skanska-Trylor Shea, JV

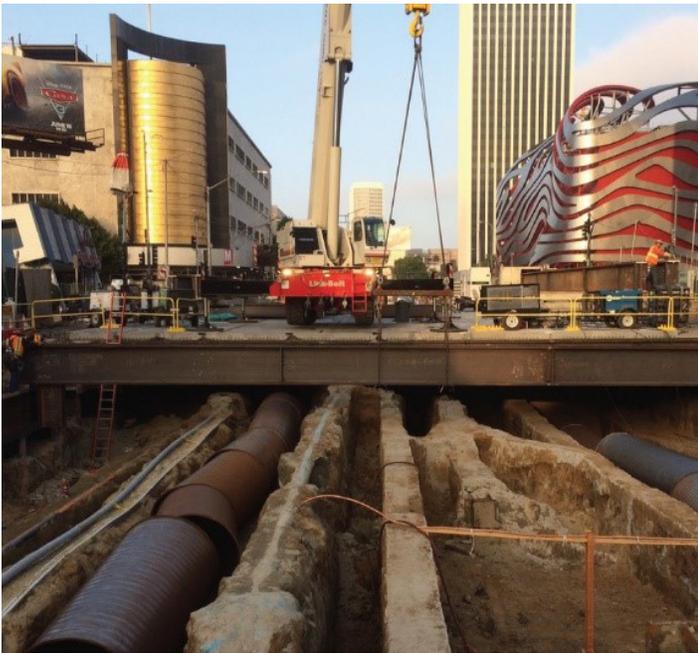
MORGNER ROLE:

Noise and Vibration Control Plan and Monitoring, Geotechnical Instrumentation and Settlement Monitoring and Pre-Construction Photo Documentation Services.

PROJECT DESCRIPTION:

The project consists of a 3.2-mile extension of existing Purple Line; two twin bored tunnels traveling west within the existing Wilshire Boulevard right-of-way; and three underground stations, "boxes" approximately 800-1,000 feet long and 70 feet wide.

The scope of work includes building condition assessment documentation and photo documentation of more than 5.3 million SQFT, performing crack propagation assessments based on specific crack criteria set forth by Metro specifications. We are also providing geotechnical instrumentation along with alignment, as well as pre-construction photo documentation and a noise control plan for environmental compliance with the City of Los Angeles. Morgner is responsible for providing project management of engineers, surveyors, geologist, and technicians for instrumentation, installations of inclinometers, space-accel-arrays (SAA), multi-point boreholes extensometers, tiltmeters, automated total stations, utility monitoring points, strain gauges, observation wells, and structural monitoring points in support of the tunneling and support of excavation process. Closely monitoring environmental compliance while excavating to characterize sampling PID in soil and groundwater and appropriate mitigation during clean-up operations.



PROJECT EXPERIENCE

Downtown Redmond Link Extension (R200)

CENTRAL PUGET SOUND REGIONAL TRANSIT AUTHORITY (SOUND TRANSIT), REDMOND, WA



Renderings courtesy of SoundTransit Website

DELIVERY METHOD:
CMGC

CONSTRUCTION VALUE:
\$730 Million

PROJECT DURATION:
2019 - 2025

AGENCY:
Central Puget Sound Regional Transit Authority
(SoundTransit)

PRIME:
Stacy and Witbeck/Kuney, a JV

MORGNER ROLE:
Pre-construction Photo/video documentation of project site and haul roads; Monthly Progress photos/videos

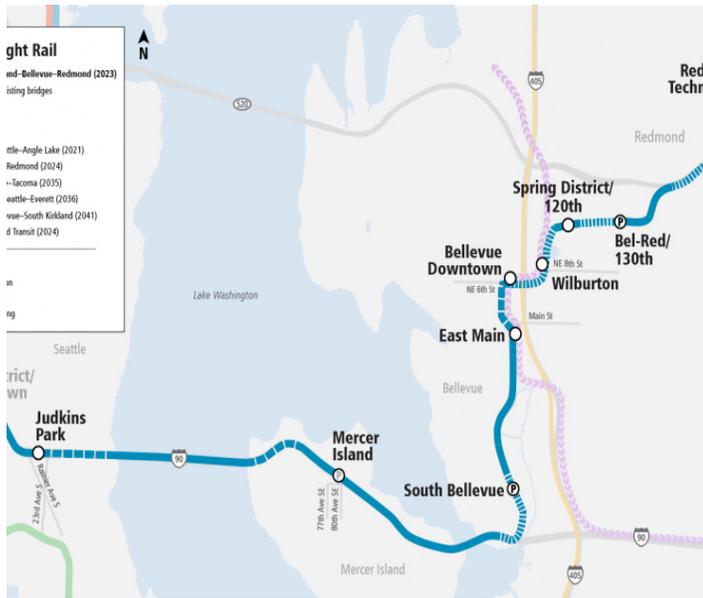
PROJECT DESCRIPTION:
The Downtown Redmond Link Extension will build new light rail from the Redmond Technology Station to downtown Redmond. The rail will travel along SR 520 with stations in southeast Redmond near Marymoor Park and in downtown Redmond. This project is part of the Sound Transit system expansion to add 94 miles of light rail throughout the region.

MORGNER, as a consultant, is providing comprehensive Photographic and Video Documentation services that will serve as a baseline for existing project conditions. MORGNER is documenting the haul roads, as well as the project site, prior to construction and after substantial completion. The scope of work also includes monthly site progress photos throughout the project duration.

PROJECT EXPERIENCE

SoundTransit E340 Eastlink Extension

CENTRAL PUGET SOUND REGIONAL TRANSIT AUTHORITY (SOUNDTRANSIT), SNOHOMISH COUNTY, WA



Renderings courtesy of SoundTransit Website

DELIVERY METHOD:
Design-Build

CONSTRUCTION VALUE:
\$3.7Billion

PROJECT DURATION:
2017 - 2020

AGENCY:
Central Puget Sound Regional Transit Authority
(SoundTransit)

PRIME:
Max/Kuney Construction

MORGNER ROLE:
Noise + Vibration monitoring services as well as construction camera monitoring installation and pre-construction survey inspections

PROJECT DESCRIPTION:
The East Link extends light rail 14 miles to East King County from downtown Seattle serving Mercer Island via I- 90, Bellevue and the Overlake area of Redmond, with ten new light rail stations serving Rainier Avenue/I- 90, Mercer Island, South Bellevue, Downtown Bellevue, Overlake Hospital, the Bel-Red Corridor, Overlake Village, and the Overlake Transit Center. The project is comprised of approximately 5,300 feet of dual track light rail transit from east of 124th Avenue NE to NE 20th Street in Bellevue, Washington. 130th Avenue Station, and an at-grade side platform station with retained fill along the south side.

MORGNER, as a consultant, is providing comprehensive Risk Control Services, Pre-Construction Surveys, Vibration and Noise Plans/Monitoring. MORGNER's expertise in risk management and previous Metro experience provides the client the peace-of-mind and compliance necessary to execute the project with minimal risk. For noise and vibration monitoring, this project requires logistical coordination of equipment and set up, employment and training of field technicians and a project plan for the execution of noise and vibration monitoring.

PROJECT EXPERIENCE

Lynnwood Link Extension, Contract L300

CENTRAL PUGET SOUND REGIONAL TRANSIT AUTHORITY (SOUND TRANSIT), SNOHOMISH COUNTY, WA



Renderings courtesy of SoundTransit Website

DELIVERY METHOD:
CMGC

CONSTRUCTION VALUE:
\$778 Million

PROJECT DURATION:
2019 - 2024

AGENCY:
Central Puget Sound Regional Transit Authority
(SoundTransit)

PRIME:
Skanska L300 JV

MORGNER ROLE:
Instrumentation and monitoring of USPs, Settlement Plates, and INCLs; Noise and Vibration Monitoring; Pre-Construction Conditional Assessments

PROJECT DESCRIPTION:
The L300 Contract of the Lynnwood Link Extension light rail serves two stations in Snohomish County, Mountlake Terrace and Lynnwood City Center. The work consists of the construction of 3.7 Miles of elevated guideway, trackwork, the two elevated stations and a 1650 stall garage at the Lynnwood Transit Center Station. The L300 Contract is a continuation of the L200 Contract that connects the Northgate Station in Seattle to the 185th Station in Shoreline

MORGNER, as a consultant, is providing comprehensive Risk Control Services, Instrumentation and Monitoring, Pre-Construction Conditional Assessments, and Noise & Vibration Plans/Monitoring. MORGNER's expertise in risk management and previous experience with Sound Transit provides the client the peace-of-mind and compliance necessary to execute the project with minimal risk. This project requires installation of geotechnical instrumentation to monitor the ground for settlement which includes Utility Settlement Points, Settlement Plates and INCLs.

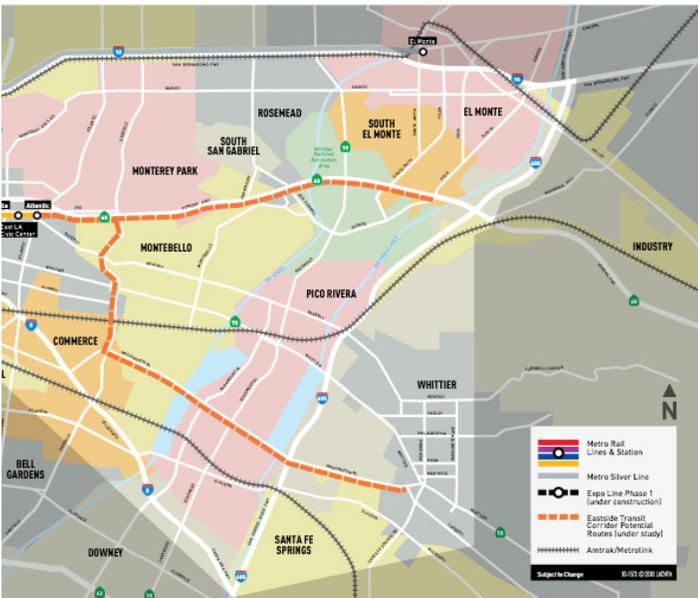
PROJECT EXPERIENCE

LA Metro Eastside Transit Corridor Phase 2 Project Alternatives Analysis, Environmental Clearance and Conceptual

LOS ANGELES METROPOLITAN TRANSPORTATION AUTHORITY, LOS ANGELES, CA



Eastside Transit Corridor Phase 2 Alternatives



CONSTRUCTION VALUE:

\$18.4 Million

PROJECT DURATION:

2010 - 2019

AGENCY:

Los Angeles County Metropolitan Transportation Authority (LACMTA)

PRIME:

CDM Smith/AECOM, JV

MORGNER ROLE:

Project Alternatives Analysis, Environmental Clearance and Conceptual Engineering Consulting Services

PROJECT DESCRIPTION:

Morgner's scope of work consisted in contacting, meeting and coordinating with public and private agencies to complete utility As-Built information along the proposed alignments. We also prepared composite existing utility plan sheets and in preparing rearrangement composite existing and proposed utility plan sheets. This scope was completed 2010-17.

In 2018, Metro has approved the Team to further study the three LRT alternatives in a revised/supplemental Draft EIS/EIR. Our scope was to provide Economic & Fiscal Impacts associated with property acquisitions for right-of-way or where construction staging areas may result in property tax revenue losses to the County and local jurisdictions based on the property location. We evaluated Construction-Related Economic Impacts consisting of temporary impacts of construction on commercial and industrial businesses, particularly those near or adjacent to construction sites, and provided Noise and Vibration Assessments. All potential noise impacts were carefully evaluated and where identified, appropriate mitigation measures were developed.

PROJECT EXPERIENCE

LA Metro Crenshaw-LAX Transit Corridor

LOS ANGELES METROPOLITAN TRANSPORTATION AUTHORITY, LOS ANGELES, CA



DELIVERY METHOD:

Design Build

CONSTRUCTION VALUE:

\$1.75 Million

PROJECT DURATION:

2015 - 2019

AGENCY:

Los Angeles County Metropolitan
Transportation Authority (LACMTA)

PRIME:

Walsh-Shea, JV

MORGNER ROLE:

Noise and Vibration Control Plan and Monitoring and
Pre-Construction Photo Documentation Services

PROJECT DESCRIPTION:

The Metro Crenshaw/LAX Transit Corridor Project will extend from the existing Metro Exposition Line at Crenshaw Blvd and Exposition Blvd. The Line will travel 8.5 miles to the Metro Green Line's Aviation/LAX Station and will serve the cities of Los Angeles, Inglewood, Hawthorne and El Segundo; and portions of unincorporated Los Angeles County.

The project includes 6 stations and 2 optional stations: Crenshaw/ Exposition, Crenshaw/ Martin Luther King Jr., Leimert Park (optional), Crenshaw/ Slauson, Florence/ West, Hindry (optional), and Aviation/ Century.

Morgner was contracted to perform pre construction photo documentation of all at-risk properties along the alignment as well as noise and vibration monitoring to reduce the risk of claims related to nuisance and/or damages. The project involves the coordination of the Project Manager, the Noise and Vibration Monitoring and the Operations Department to assign personnel, to resource the project with sounds level meters equipment, to the demobilization of noise and vibration units, and to the submission of noise and vibration reports to the client in a timely manner.



PROJECT EXPERIENCE

LA Metro Regional Connector Transit Corridor, Advanced Utility Relocation

LOS ANGELES METROPOLITAN TRANSPORTATION AUTHORITY, LOS ANGELES, CA



DELIVERY METHOD:

Design Build

CONSTRUCTION VALUE:

\$2 Million

PROJECT DURATION:

2014 - 2022

AGENCY:

Los Angeles County Metropolitan
Transportation Authority (LACMTA)

PRIME:

Skanska-Traylor, JV (Regional Connector Constructors, JV)

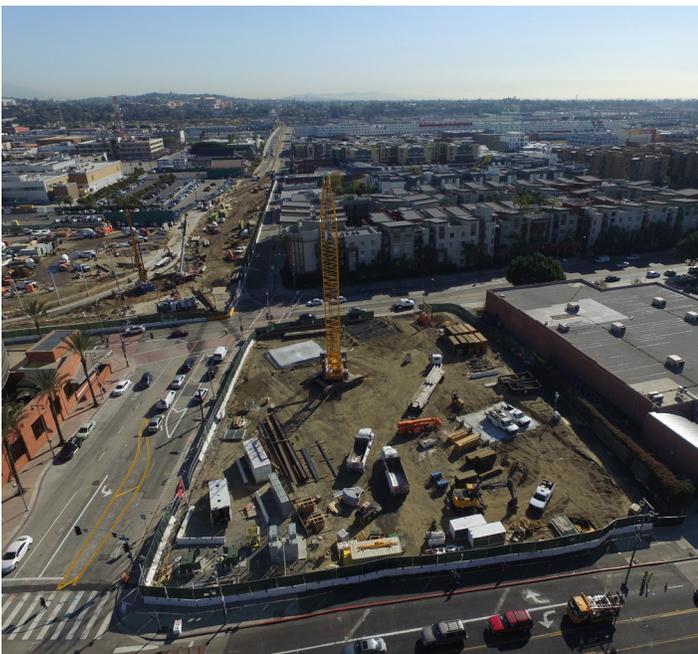
MORGNER ROLE:

Noise and Vibration Control Plan and Monitoring and Pre-
Construction Photo Documentation Services.

PROJECT DESCRIPTION:

The Metro Regional Connector Project extends from the Metro Gold Line Little Tokyo/Arts District Station to the 7th Street/Metro Center Station in downtown Los Angeles, allowing passengers to transfer to Blue, Expo, Red and Purple Lines, bypassing Union Station. The 1.9-mile alignment will serve Little Tokyo, the Arts District, Civic Center, The Historic Core, Broadway, Grand Ave, Bunker Hill, Flower Street and the Financial District.

Morgner's responsibilities include providing comprehensive Risk Control Services, Pre Construction Photo Documentation, Vibration and Noise Plans/Monitoring services. For noise and vibration monitoring, this project required a logistical coordination of equipment and set up, employment and training of field technicians and a project plan for the execution of noise and vibration monitoring.



PROJECT EXPERIENCE

Route SR22 Freeway Widening & Reconstruction

ORANGE COUNTY TRANSPORTATION AUTHORITY, ORANGE, CA



DELIVERY METHOD:

Design-Build

CONSTRUCTION VALUE:

\$489,000,000

PROJECT DURATION:

2004 ~ 2008

AGENCY:

Orange County Transportation Authority (OCTA)

PRIME:

Granite / Myers / Rados, JV

MORGNER ROLE:

Construction Support Services

PROJECT DESCRIPTION:

The project included reconstructing and widening about 12 miles (both ways) of the I-22 Freeway through the heart of Orange County, CA. The improvements included the construction of two carpool lanes, two auxiliary lanes between I-5 (Santa Ana) Freeway and Beach Boulevard, as well as elevated the freeway connector with Route 57 at City Drive, to eliminate a chronic weaving condition.

The project also included new on and off ramps at all of the highway interchanges, including three new bridges, replacing nine existing bridges, widening twenty-two bridges and nearly 132 new sound and/or retaining walls along the twenty-four lane miles of the alignment. Upgrades were made to 51 ramps and 317 complex utility crossings, which included related sanitary sewers, storm drains, and waterlines.



Photos courtesy of Rados