

Robots Are Coming to the Construction Site

[Article originally appeared on
www.constructconnect.com]

By Kendall Jones,

Imagine walking onto a construction site in the near future to find a team of robots doing site grading and layout, laying a brick wall, or even assembling scaffolding trusses. This may seem far-fetched, something you'd expect in a sci-fi flick or a story by Isaac Asimov or Ray Bradbury, but advances in construction robotic technology are quickly making it a reality.

In fact, depending on the type of work you do, you might already be using robots at the construction site. Robotic heat welders and remote-controlled demolition robots have been commercially available for a number of years.

Robots may never completely eliminate the need for human workers in the construction industry, but there are many applications robots could be used to make work on the construction site faster, safer, easier, and less labor-intensive.

The most likely scenario is that robots will be used alongside human workers to augment their work, keep them safer and boost productivity. The current capabilities of existing robots, combined with a growing labor shortage will probably lead to robots handling some of the more menial repetitive tasks, leaving the human worker to focus on other aspects of their job.

Below is a compilation of videos demonstrating some of the technology currently being developed for the construction industry as well as some of the technology already being used.

Brick Laying Robots

Semi-Automated Masonry (SAM) System

The SAM System was developed by Construction Robotics and is intended to work with a mason in order to reduce costs, increase productivity and increase the quality of work. The system eliminates the strenuous work by lifting the brick, applying mortar, and placing each brick in place. The mason is responsible for ensuring accurate placement of the bricks, cleaning up excess mortar, and overseeing the overall project is completed correctly.

Construction Robotics also makes the MULE (Material Unit Lift Enhancer) to help lift and place heavy material on the jobsite, helping improve productivity and safety. Both SAM and MULE robots have been used to complete a number of projects from hotels and offices to retail stores and university buildings.



Photo credit by www.constructconnect.com

Hadrian X

Fastbrick Robotics unveiled Hadrian X last year, a prototype of a bricklaying robot that can lay 1,000 bricks in an hour and can build an entire house in two days complete with pathways for electrical and plumbing and spaces for doors and windows.

Construction Layouts

Dusty Robotics

The FieldPrinter by Dusty Robotics

Theometrics

Theometrics' layout robot can use CAD drawings or BIM models to navigate a construction site to do layouts and measurement tasks.

Demolition Robots

There are a number of equipment manufacturers that supply the construction industry with remote-controlled demolition robots including Brokk, Finmac, and Husqvarna.

Self-Driving Trucks & Heavy Equipment

Royal Truck & Equipment Co.

Crash trucks equipped with attenuators have been used for years in highway work zones to protect workers and motorists. You've probably seen them in action acting as a barrier between workers painting lines or resurfacing roads. Royal Truck & Equipment has partnered with companies like Micro Systems and Kratos defense to build autonomous crash trucks to help keep road construction workers safe.

Their trucks can be operated by remote control, GPS waypoint navigation, or by following a lead vehicle that would transmit information to the crash truck instructing it when to turn, brake, and what speed to travel.

Built Robotics

Built Robotics' Automated Track Loader, or ATL, was developed to excavate smaller construction sites. The system uses specially designed LiDAR to accommodate for vibrations in order to see where it is going and to measure the material being excavated. Augmented GPS, a combination of onsite base stations and satellites are used to geofence the site and to move the track loader around the site with precision accuracy.

Instead of building an entirely new piece of heavy equipment, the electronics for the ATL are housed in a cargo carrier that attaches to the cab to retrofit existing compact track loaders. The system also has a collision detection system to prevent the loader from coming into contact with workers or other equipment on the construction site. The ATL also has a kill switch for the person supervising the work should it be needed.

Input from equipment operators was used in designing the software running the ATL and the machine operates at about the same speed as a human operator.

Komatsu

Komatsu's Smart Construction ties into their Intelligent Machine Control (IMC) construction equipment. The IMC dozer has full automatic



CALIFORNIA SUB-BID REQUEST ADS



An Equal Opportunity Employer is requesting quotations from all qualified Professional services, sub-contractors, material suppliers and trucking including certified DBE/SBE for the following project:

UC Berkeley

DM Centennial Bridge Improvements ~ Project No. 12703A

Replace the existing Centennial Drive Bridge Overpass above Lawrence Road with a new 3-span viaduct by shifting the roadway to the south so that the existing bridge and roadway can remain in service during construction.

Bid Date: June 29, 2022, at 2:00 PM

****Bidding Electronically. Quotes need to be received by 11:00am on bid day****

CONTACT:

Debby Pannell

Brosamer & Wall Inc.

1777 Oakland Blvd, Suite 300, Walnut Creek, California 94596

PH: 925-932-7900 • FAX: 925-279-2269

PROJECT SCOPE:

Brosamer & Wall Inc., is requesting quotes from all qualified subcontractors, suppliers, and truckers including certified DBEs on all items of work type listed below, including but not limited to:

SWPPP; Construction Survey; Temporary Shoring; Erosion Control; Demolition; Clear & Grub; Roadway Excavation including Offhaul & Disposal; Subgrade Preparation (Scarify, Recompact); round Improvements (East Abutment); Materials (HMA; AC Dike; Aggregate Base; Class 2 Perm; Structure Backfill [Bridge & Retaining Wall]); Rock Slope Protection; Fencing; Roadside Signs; Landscaping; Guardrail; Minor Concrete; Railing; Striping/Pavement Markings; Alternative In-Line Terminal System; Vegetate Swale; Reinforced Concrete Pipe; Electrical; Frame & Grates; Manhole; Underdrain Pipes; Underdrain Cleanout; Structure Excavation (Bridge & Retaining Wall); Permanent Steel Casing; Cast-in-Drilled-Hole Concrete Piling; Prestressing Cast-in-Place Concrete; Structural Concrete (Bridge Footing, Bridge, Approach Slab, Retaining Wall & Barrier Slab); Bar Reinforcing Steel (Bridge & Retaining Wall); Misc. Metal (Bridge); Chain Link Railing; Concrete Barrier (Type 842); Mechanically Stabilized Embankment

Please Contact Brosamer & Wall Inc. at the email listed below for the complete list of the Actual Available Project Bid Items.

Requirements: Brosamer & Wall, Inc. will work with interested subcontractors/suppliers to identify opportunities to break down items into economically feasible packages to facilitate DBE. Brosamer & Wall, Inc. is a union signatory contractor. Subcontractors must possess a current contractor's license, insurance coverage, valid DBE certification, DIR (Department of Industrial Relations) registration number for public work projects, and worker's compensation for the entire length of the contract. All subcontractors will be required to sign our standard Subcontract Agreement. 100% payment and performance bonds may be required. If you have any questions regarding this project or need assistance in obtaining/waiving insurance, bonding, equipment, materials and/or supplies please call or email Debby Pannell contact information below.

Plans and specifications can be viewed at our office located at 1777 Oakland Blvd Suite 300, Walnut Creek, Ca. 94596. B&W will also make plans & specs available electronically. Please email Debby Pannell at dpannell@brosamerwall.com for free online link. Brosamer & Wall Inc. intends to work cooperatively with all qualified firms seeking work on this project. ****Submit ALL Bid/Quotes via email to estimating@brosamerwall.com or via fax at 925-279-2269 along with a copy of your CURRENT DBE/SBE CERTIFICATION by 11am on bid day. Please include your CSLB License Number & DIR Registration Number on all bid/quotes.** Subcontractors, Dealers/Suppliers and Brokers please provide your designation code to us on or before June 29, 2022.

B&W, INC., IS AN EQUAL OPPORTUNITY EMPLOYER.



SYBLON REID
General Engineering Contractors
Providing Solutions to Difficult Projects

P.O. BOX 100 Folsom, CA 95763

Phone: (916) 351-0457 Fax: (916) 351-1674

Contact: John Pottenburgh

Email: johnp@src.com & estimating@src.com

Sub-Bids Requested From **MBE & WBE** Subcontractors & Suppliers for:

OWNER: EAST BAY MUNICIPAL UTILITY DISTRICT

PARDEE RECREATION AREA AND PARDEE CENTER WATER TREATMENT PLANT IMPROVEMENTS

SPECIFICATION NO. 2165

LOCATION: VALLEY SPRINGS, CA

BID DATE: JULY 13, 2022 @ 1:30 PM

*****ADDENDUM #1 ISSUED ON 06-03-2022*****

Trades Solicited: Aggregates Supply, Construction Materials Supply, Environmental Materials Supply, Pipe/Valve/Fittings Supply, Concrete Supply, Trucking, Electrical Sub, Painting Sub, Saw Cutting Sub, Surveying Sub, Testing/Inspection Sub.

If a portion of the work is too large for you to handle, contact us and we will try and break it into smaller portions.

Subcontractors and suppliers must be licensed to conduct business in the state of California. Must be able to provide payment and performance bonds provided by approved surety company. SRC will pay bond premium up to 1.5% of subcontract amount and will assist with insurance compliance. SRC will work with subcontractors on joint check agreements. Plans and specs are available for viewing at our Folsom office and upon request will provide FTP site for electronic viewing of project.

Bonding, insurance, lines of credit and any technical assistance or information related to the plans or specifications for the work will be made available. Assistance with obtaining necessary equipment, supplies, materials, or related assistance or services for this project will also be offered.



PROJECT NAME: Los Banos Police Station

BID DATE: July 6, 2022 at 3:00 PM

Scopes: Masonry, Joint Sealants, Glass & Glazing, Overhead Doors, Detention Systems, Flashing

Project Description:

BIDS FOR THE ABOVE SCOPE ONLY AT THIS TIME. The City of Los Banos has awarded Swinerton Builders the design and construction of a new police station. The new police station includes a 28,000 SF main building and a 3,000 SF pre-engineered metal impound building on a 2.8-acre site. The main building will be a 1-story Type I-B building with a steel and concrete structure.

PLANS & SPECIFICATIONS:

<https://swinerton.com/subcontractors/current-bid-opportunities/>

Contact: Karina Schulz

Tel: (415) 516-4174

Email To: karina.schulz@swinerton.com

Please submit your bid to Karina Schulz via Building Connected or via email.

We reserve the right to require all subcontractors to furnish 100% performance and payment bonds from a U.S. Treasury-listed surety. Premium cost to be included as a separate item. At our discretion, a bid bond and/or letter of bondability from a U.S. Treasury-listed surety may be required within 48 hours of demand.

"Swinerton is an Equal Employment Opportunity, Minority, Women, Disability, and Veteran Employer"

SBE OUTREACH SERVICES

With 1.5 million businesses in our database, SBE is California's #1 source for diversity outreach.

Advertisements

Placed in the Small Business Exchange newspaper, SBE Today newsletter, and online at www.sbeinc.com

Faxed and Eblast Solicitations

Targeted mailings sent to businesses per your criteria.

Telemarketing

Telephone follow-up calls that follow a script of 5 questions you create.

Computer Generated Reports

Will fit right into your proposal, along with a list of interested firms to contact.

Contact Info:

1160 Battery Street East, Suites #100

San Francisco, CA 94111

Email: sbe@sbeinc.com

Website: www.sbeinc.com

Phone: (415) 778-6250, (800) 800-8534

Fax: (415) 778-6255

Publisher of

Small Business Exchange
weekly newspaper



CALIFORNIA SUB-BID REQUEST ADS



An Equal Opportunity Employer is requesting quotations from all qualified Professional services, sub-contractors, material suppliers and trucking including certified DBE for the following project:

Caltrans 05-0C7324

Santa Cruz County in and near City of Capitola from 0.2 Mile South of 41st Avenue Overcrossing to 0.2 Mile North of Soquel Drive Overcrossing ~ 05-5Cr-1-13.4/14.9 - Project ID 0512000228
Construct pedestrian overcrossing, retaining walls, and auxiliary lane.

Bid Date: July 27, 2022, at 2:00 PM

****Bidding Electronically. Quotes need to be received by 11:00am on bid day****

CONTACT:

Debby Pannell

Brosamer & Wall Inc.

1777 Oakland Blvd, Suite 300, Walnut Creek, California 94596

PH: 925-932-7900 • FAX: 925-279-2269

PROJECT SCOPE:

Brosamer & Wall Inc., is requesting quotes from all qualified subcontractors, suppliers, and truckers including certified DBEs on all items of work type listed below, including but not limited to:

Signs-(Construction, Roadside, Temporary Changeable Message; Portable Radar Speed Feedback; Portable Changeable Message); Unframed & Framed Single Sheet Aluminum Signs; PCMS; Temporary Automated End of Queue Warning System; Lead Compliance Plan; SWPP Plan; Rain Event Action Plan; Storm Water Sampling and Analysis & Annual Report; Street Sweeping; Traffic Control; Traffic Management & Monitoring Systems; Temporary Crash Cushion; Attenuator Vehicle; All Barricades; Channelizer-(Surface Mounted; All Railings; Crash Cushions; Midwest Guardrail; Barriers-(Concrete, Double Metal Beam); Clear & Grub; Tree Removal; Roadway Excavation; Trench Excavation; Structure Excavation-(Bridge, Retaining Wall, Sound Wall, Soldier Pile Wall); Structure Backfill-(Bridge, Retaining Wall, Sound Wall, Soldier Pile Wall); Concrete Backfill-(Lean, Soldier Pile Wall, Pipe Trench); Landscaping; Wood Mulch; Irrigation including Electrical/Controls; Pipe-(Plastic, Copper); AC Paving; Cold Plane/Grinding; Rumble Strip; Materials-(Class 2 ASB, Class 2 AB, HMA, RHMA, Tact Coat, AC Dike, Backfill Sand); Rock Slope Protection; RSP Fabric (Class 8); Steel Soldier Pile; CIDH Concrete Piling; Structural Concrete-(Bridge Footing; Bridge; Retaining Wall, Sound Wall, Barrier Slab, Junction Structure, Box Culvert, Drainage Inlet); Precast Concrete Panel; Joint Seal Assembly; Masonry Block Sound Wall; Steel Soldier Piling; Electrical; Lighting; Striping & Marking-(Thermoplastic, Painted, Methyl Methacrylate coloring, and All Removals); Bar Reinforcing Steel-(Bridge, Retaining Wall, Sound Wall, Box Culvert, Junction Structure); Alternative Pipe Culvert; Reinforced Concrete Pipe; Corrugated Steel Pipe Inlet; Manhole; Minor Concrete-(Curb & Gutter, Driveway, Stamped Concrete, Sidewalk, Sand Blast, Curb Ramp); Miscellaneous Iron & Steel; Miscellaneous Metal; Fencing-(Chain Link, CL Gate, High Visibility); Quality Control

Please Contact Brosamer & Wall Inc. at the email listed below for the complete list of the Actual Available Project Bid Items.

Requirements: Brosamer & Wall, Inc. will work with interested subcontractors/suppliers to identify opportunities to break down items into economically feasible packages to facilitate DBE. Brosamer & Wall, Inc. is a union signatory contractor. Subcontractors must possess a current contractor's license, insurance coverage, valid DBE certification, DIR (Department of Industrial Relations) registration number for public work projects, and worker's compensation for the entire length of the contract. All subcontractors will be required to sign our standard Subcontract Agreement. 100% payment and performance bonds may be required. If you have any questions regarding this project or need assistance in obtaining/waiving insurance, bonding, equipment, materials and/or supplies please call or email Debby Pannell contact information below.

Plans and specifications can be viewed at our office located at 1777 Oakland Blvd Suite 300, Walnut Creek, Ca. 94596 or can be accessed for free at the Caltrans website: www.dot.ca.gov/hq/esc/oe. B&W will also make plans & specs available electronically. Please email Debby Pannell at dpannell@brosamerwall.com for free online link. Brosamer & Wall Inc. intends to work cooperatively with all qualified firms seeking work on this project. ****Submit ALL Bid/Quotes via email to estimating@brosamerwall.com or via fax at 925-279-2269 along with a copy of your CURRENT DBE CERTIFICATION by 11am on bid day. Please Include your CSLB License Number & DIR Registration Number on all bid/quotes.** Subcontractors, Dealers/Suppliers and Brokers please provide your designation code to us on or before July 26, 2022.

B&W, INC., IS AN EQUAL OPPORTUNITY EMPLOYER.

Robots Are Coming to the Construction Site

Continued from page 1

blade control and receives real-time information on the blade position from the Global Navigation Satellite System. The blade is automatically controlled according to 3D CAD construction data with the coordinates computed from design drawings.

Komatsu uses Skycatch drones from San Francisco-based Skycatch to survey job sites from the air and then upload images to computers to generate 3D models of the terrain. Prior to construction, the 3D drawings will provide an accurate understanding of the area, shape, and volume of earthwork to be moved.

Once construction plans are designed the models will be programmed into the unmanned IMC construction equipment to begin work on the early foundation. Other heavy equipment manufacturers such as Caterpillar, Case, and Volvo CE are all working on developing autonomous construction equipment.

Jobsite Monitoring

Doxel AI

Doxel is using robots and artificial intelligence (AI) to monitor jobsite progress with real-time, actionable data. The technology uses autonomous drones and rovers equipped with high-definition cameras and LiDAR to photograph and scan the construction site each day with pinpoint accuracy. Their AI then uses those scans to compare against your BIM models, 3D drawing, schedule, and estimates to inspect the quality of the work performed and to determine how much progress has been made each day.

The AI uses deep-learning algorithms to identify and report errors in work performed. This can be anything from the excavation and site work to the mechanical, electrical and plumbing systems. The AI can recognize a building component based on its shape, size and location even if only a portion of the component is visible.

By classifying and measuring quantities installed, Doxel can tell you how much work was done each day which it can then compare against your construction schedule and alert you if your project is falling behind. The AI also detects deviations between installed components and onsite work with models so you can quickly identify errors and avoid costly rework.

The main goal of Doxel is to improve productivity, eliminate rework and help deliver projects on time and within budget.

Visit the link below to read the full article and view the various videos on the robots

<https://www.constructconnect.com/blog/construction-robotics>

CAHILL CONTRACTORS LLC

requests bids from Certified SBE / San Francisco LBE Subcontractors and Suppliers for the following trades:

Earthwork & Site Demolition/Misc. Metals/
 Sealants & Caulking/Painting/Asphalt Paving &
 Striping/Site Concrete/ Landscape,
 Irrigation & Site Furnishings/Site Utilities/
 Lighting & Security Cameras

BALBOA PARK BART PLAZA – GMP
401 Geneva Ave., San Francisco, CA 94112

This is a San Francisco project with construction workforce, prevailing wage, and local hiring requirements.

BID DATE: 6/23/22 @ 2:00 p.m.

BID DOCUMENTS: Please contact Wendy for access to documents on BuildingConnected.

CONTACT: Wendy Kirton at
estimating@cahill-sf.com, (415) 677-0611.

CAHILL CONTRACTORS LLC requests bids from Certified SBE / San Francisco LBE Subcontractors and Suppliers for ALL REMAINING TRADES EXCEPT:

Demolition/Grading, Ground Improvement,
 Exterior Building Maintenance, Elevators, Fire
 Sprinkler, Tower Crane, Personnel Hoist

KELSEY CIVIC CENTER – GMP Remaining Trades

240 Van Ness Avenue, San Francisco, CA

This is a San Francisco project with construction workforce, prevailing wage, and local hiring requirements.

BID DATE: 7/8/22 @ 2:00 p.m.

BID DOCUMENTS: Please contact Wendy for access to documents on BuildingConnected.

CONTACT: Wendy Kirton at
estimating@cahill-sf.com, (415) 677-0611.



CALIFORNIA SUB-BID REQUEST ADS



Kiewit

Kiewit Infrastructure West Co.
4650 Business Center Drive • Fairfield, CA 94534
Attn: Amanda Schroeder at norcal.bids@kiewit.com
Phone (707) 439-7300 • Fax (707) 439-7301

Requests quotes from qualified Subcontractors, Service Providers, Consultants, and/or Suppliers seeking to participate for the following project in Sunnyvale, CA:

SCWP – Secondary Treatment and Dewatering Project

Public Works Project No. UY-21-07

Owner: City of Sunnyvale

Bid Date: August 10, 2022 @ 3:00 PM

Subcontractor and Supplier Scopes are due

August 03, 2022 and Quotes NO LATER THAN August 09, 2022 at 5 PM.

Kiewit requests Disadvantaged Business Enterprise (DBE), Minority Business Enterprise (MBE), Women Business Enterprise (WBE), Small Business Enterprise (SBE), Small Business in a Rural Area (SBRA), Labor Surplus Area Firm (LSAF), or Historically Underutilized Business (HUB) Zone Businesses for the following scopes, but not limited to:

Asphalt Paving • Acoustical Ceilings and Wall Panel • Aggregates • Architectural Woodwork • Auger Cast Piles • Bird Deterrent Devices • Building Furnishing • Building Insulation • Building Interior • Specialties Building Safety & Fire Protection • Cast-in-Place Concrete • Cathodic Protection • Cellular Concrete • Ceramic Tile • Concrete Formwork • Concrete Pumping • Concrete Supply • Crane & Hoists • Dewatering • Doors • Earthwork • Epoxy Injection System • Erosion Control • Expansion Joint • Fiberglass Reinforced Plastic • Fire Suppression • Flashing & Sheet Metal • Flooring • Framing & Gypsum Board Hatches • HVAC • Installation of Truck Scale • Joint Sealants • Masonry • Mechanical Equipment • Metal Roofing • Minor Concrete • Misc. Metals & Structural Steel • Overhead Coiling Doors • Painting & Coating • Pipe & Valve Supply • Potholing • Precast Concrete • Precast Utility Structures • Pre-Fabricated Metal Building & Canopy • Quality Control • Rebar • Shoring • Signage • Skylights • Steel Decking • Striping • Subsurface Utility Exploration/Engineering • Tanks (FRP) • Tanks (Vertical Post-Tensioned) • TPO Roofing • Traffic Control • Trucking • Waterproofing/Dampproofing • Windows & Glazing

Certified thru, but not limited to, any of the following agencies:

www.mbdca.gov ; www.epa.gov ; www.sba.gov ; dot.ca.gov

Non-DBE firms are encouraged to contract with a group of lower tier DBEs or individual DBEs.

Plans are available for viewing through SmartBidNet (SBN). All companies already registered in our SBN database will receive an invitation to bid. Please email norcal.bids@kiewit.com to have your company added to our SBN database to be able to receive bidding information, Plans and Specifications.

Performance and Payment Bonds may be required for Subcontractors, and Supply Bond for permanent material Suppliers on this project. Bond requirement can be waived on a case-by-case basis. Please contact Kiewit for more information. Bond premiums are reimbursable by Kiewit. Please contact Kiewit for any assistance in bonding, insurance, equipment, materials and/or supplies.

Subcontractors must possess & provide current California contractor's license number & DIR Registration number.

Clean Water State Revolving Fund (CWSRF) requirements
US Environmental Protection Agency (WIFIA) grant requirements
American Iron and Steel (AIS) requirements
Davis-Bacon Act and California prevailing wage requirements
Disadvantaged Business Enterprises (40 CFR Part 33) requirements

An Equal Opportunity Employer

CA Lic. 433176

DIR #: 1000001147

DESILVA GATES

CONSTRUCTION

11555 Dublin Boulevard • P.O. Box 2909
Dublin, CA 94568-2909

Phone: (925) 829-9220 / **Fax:** (925) 803-4263

Website: www.desilvagates.com

ESTIMATOR: VICTOR LE

An Equal Opportunity/Affirmative Action Employer

DeSilva Gates Construction (DGC) is preparing a bid as a Prime Contractor for the project listed below:

CALTRANS ROUTE 680 – HIGHWAY IN ALAMEDA AND CONTRA COSTA COUNTIES AT SUNOL AND IN SAN RAMON BETWEEN 0.4 MILE SOUTH OF CALAVERAS ROAD UNDERCROSSING TO 0.9 MILE NORTH OF ALCOSTA BOULEVARD OVERCROSSING

Contract No. 04-0Q30U4

Federal Aid Project No. ACIM-680-1(990)E

Disadvantaged Business Enterprise (DBE) Goal

Assigned is 26%

OWNER: STATE OF CALIFORNIA

DEPARTMENT OF TRANSPORTATION

**1727 30th Street, Bidder's Exchange, MS 26,
Sacramento, CA 95816**

BID DATE: July 14th, 2022 @ 2:00 P.M.

DGC is soliciting quotations from certified Disadvantaged Business Enterprises, for the following types of work and supplies/materials including but not limited to:

AC Dike, Biologist, Consultant, Clearing and Grubbing/ Demolition, Cold Plane, Concrete Barrier, Construction Area Sign, Electrical, Emulsion supplier, Erosion Control, Fabric/Geosynthetic Pavement Interlayer, Fencing, Hazardous Material, K-Rail Supplier, Landscaping / Irrigation, Lead Compliance Plan, Metal Beam Guardrail, Minor Concrete, Minor Concrete Structure, PCC Paving, Roadside Signs, Rumble Strip, Sign Structure, Soil Nail, Structural Concrete (Retaining Wall), Striping, SWPPP Prep/ Water Pollution, Control Plan Prepare, Temporary Erosion Control, Traffic Control Systems, Underground, Vegetation Control, Trucking, Water Trucks, Street Sweeping, Class 2 Aggregate Subbase Material, Class 2 Aggregate Base Material, Hot Mix Asphalt (Type A) Material, Asphalt Treated Permeable Material, Rubberized HMA (Open Grade) Material, Rubberized HMA (Gap Grade) Material.

Plans and specifications may be reviewed at our offices located at 11555 Dublin Boulevard, Dublin, CA and 3855 North Freeway Boulevard, Suite 100, Sacramento, CA or at your local Builders Exchange, or reviewed and downloaded from the dropbox site at https://www.dropbox.com/sh/5rvc1bwfbasgl9/AABrd0ba51_kN3GtAEsfBUoa?dl=0

or from the Owner's site at http://www.dot.ca.gov/hq/esc/oe/weekly_ads/all_adv_projects.php

Fax your bid to (925) 803-4263 to the attention of Estimator Victor Le. If you have questions for the Estimator, call at (925) 829-9220. When submitting any public works bid please include your DUNS number and DIR number. For questions regarding registration for DIR use the link at www.dir.ca.gov/Public-Works/PublicWorks.html

If you need DBE support services and assistance in obtaining bonding, lines of credit, insurance, necessary equipment, materials and/or supplies or related assistance or services, for this project call the Estimator at (925) 829-9220, or contact your local Small Business Development Center Network (<http://californiasbdc.org>) or contact the California Southwest Transportation Resource Center (www.transportation.gov/osdbu/SBTRCs). DGC is willing to breakout portions of work to increase the expectation of meeting the DBE goal.

At our discretion, 100% Payment and 100% Performance bonds may be required as a subcontract condition. This will be a PREVAILING WAGE JOB. DGC is an Equal Opportunity/Affirmative Action Employer.

Looking for Subcontractors, Vendors, and Suppliers?

Advertise your Sub-Bid Requests in the **Small Business Exchange.**

With a monthly readership of 26,000, SBE reaches a diverse audience, cutting across ethnic and gender lines as well as traditional industry segments.



Call **1-800-800-8534** or visit us at **www.sbeinc.com**



CALIFORNIA SUB-BID REQUEST ADS



Is requesting quotes from certified and qualified San Diego County Water Authority's Small Contractor Outreach and Opportunities Program Small Business (SCOOP), Small Disadvantaged Business, HUB Zone, DBE, SLBE, ELBE, DVBE Subcontractors, Suppliers, and Service Providers for the following (but not limited to) work:

SUBS/SERVICE PROVIDERS

Civil Engineer, Clearing & Grubbing, Consultant (Engineer), Develop Water Supply, Dust Palliative, Erosion Control & Temporary Erosion Control, Hydroseeding, Pipeline Drain Inspection & Cleaning, Pipe Lining (Cement Mortar), Super 10 Dump Trucks, Street Sweeping, Traffic Control, Water Trucks, Welding

SUPPLIERS

Heavy Equipment Rental, Jack Welded Steel Pipe, Misc. Iron & Steel Frame (Cover & Grates), Rental Construction Equipment, Safety Equipment, Sand & Gravel, Traffic Control Materials, Welded Steel Pipe

Pipeline 5 Relining, North Twin Oaks Valley Road to Crossover Pipeline Turnout, San Diego, CA

Specification No. 669

Goal - N/A (Mandatory Outreach)

BID DATE June 28, 2022 at 2:00 p.m.

All Quotes Due Prior

Sukut Construction, LLC

4010 W. Chandler Avenue, Santa Ana, CA 92704

Contact: Rick Welshiemi

Phone: (714) 540-5351 • Fax: (714) 545-2003 • Email: estimating@sukut.com

Plans/specs are available for viewing at our office by appointment, by Sukut FTP, or from Owner. Subcontractors must be prepared to furnish 100% performance and payment bonds and possess current insurance and workers' comp coverage. Sukut will assist qualified subcontractors in obtaining bonds, insurance, and/or lines of credit. Subcontractors/Vendors will be required to sign Sukut's Standard Subcontract/Purchase Order. Copies are available for examination. Please contact Rick Welshiemi at Sukut Construction for assistance in responding to this solicitation.

Sukut Construction's listing of a Subcontractor in its bid to the agency is not to be construed as an acceptance of all the Subcontractor's conditions or exceptions included with Subcontractor's price quotes. Quotations must be valid for the same duration as specified by Owner for contract award.

Sukut Construction, LLC An Equal Opportunity Employer

REQUEST FOR Sub-Bids, Sub-Proposals from firms with California DBE Certification

Project Name: Border to Bayshore Bikeway Project

Project Number: SOL899820

Owner: SANDAG

DBE Goal: 23%

Subcontractors/Subconsultants/Vendors wanted for:

(Subcontractors)- Quality Control, Street Sweeping, Minor Concrete, Asphalt Paving, Slurry Seal, Cold Mill Asphalt, Reinforcing Steel, Landscape, Electrical, Traffic Signals, Demolition, Survey, Fencing & Handrail, Wet Utilities- Water Line, Dirt Import, Striping and Signage, Traffic Control, Concrete Pavement, Janitorial Service, Project Scheduler, Tree Removal

(Suppliers)- BMP Material, Asphalt, Ready Mix Concrete, Aggregates, Misc. Metal, Detectable Warning Tiles, Waterworks Material, Bike Rack, Bus Shelters & Benches, Misc. Concrete Material, Trench Drains with Grates

Project Scope:

The work consists in general of constructing an approximate 6.7-mile Class II, Class III, and Class IV bikeway through the City of Imperial Beach and the San Ysidro and Otay Mesa-Nestor communities in the City of San Diego. Improvements include buffered bike lanes, sidewalk improvements, roadway improvements, earthwork, drainage improvements, storm water treatment devices, landscaping, fencing, traffic signal modifications, street lighting, signage, striping, and other traffic calming improvements.

Work includes, but is not limited to, controlling for water pollution; traffic control; erosion control; clearing and grubbing; curb, gutter, cross gutter, driveway, stamped concrete, and sidewalk work; roadway excavation; imported borrow; asphalt concrete pavement; PCC pavement; landscaping; wayfinding signage; pavement markings and signage; street lighting; trenching and backfill for underground electric conduits; water appurtenances and fire hydrant relocations; storm drain installation; traffic signal modifications; and procurement of all materials and performing all other work necessary to complete the work in accordance with the project plans and specifications. The DBE goal on this project is 23%. For the SWPPP, this project is a Risk Level 2.

REVISED BID DATE: July 6th, 2022 @ 2:00 PM

REYES CONSTRUCTION, INC.

State License Number 507561

1383 South Signal Drive, Pomona, CA 91766

Phone: 909-622-2259 • Fax: 909-622-3053

Contact: Brenda Martinez Mon-Fri 7:00 A.M - 4:00 P.M

Assistance will be available in obtaining bonds, lines of credit, insurance, necessary equipment, supplies, materials or related technical assistance.

For information on the availability of scope of work, plans and specifications, please contact our office.

Plans, Specifications, and Contract requirements can be viewed online at no additional cost:

1) Via iSqFt - please send an email request to estimating@reyesconstruction.com

2) <https://www.bidnetdirect.com/sandag>

Please e-mail Quotes to: Estimating@reyesconstruction.com



11555 Dublin Boulevard • P.O. Box 2909
Dublin, CA 94568-2909

Phone: (925) 829-9220 / Fax: (925) 803-4263

Website: www.desilvagates.com

ESTIMATOR: JIM YACKLEY

An Equal Opportunity/ Affirmative Action Employer

DeSilva Gates Construction (DGC) is preparing a bid as a Prime Contractor for the project listed below:

CALTRANS ROUTE 101 - CONSTRUCTION ON STATE HIGHWAY IN SAN MATEO COUNTY AT VARIOUS LOCATIONS FROM BROADWAY OVERCROSSING TO 0.2 MILE NORTH OF OYSTER POINT BOULEVARD OVERCROSSING.

Contract No. 04-3J0624

Federal Aid Project No. ACNH-Q101(388)E

Disadvantaged Business Enterprise (DBE)

Goal Assigned is 27%

OWNER: STATE OF CALIFORNIA

DEPARTMENT OF TRANSPORTATION

1727 30th Street, Bidder's Exchange, MS 26,

Sacramento, CA 95816

REVISED BID DATE: JUNE 29, 2022 @ 2:00 P.M.

DGC is soliciting quotations from certified Disadvantaged Business Enterprises, for the following types of work and supplies/materials including but not limited to:

AC Dike, Barrier Rail Sub, Clearing and Grubbing/Demolition, Cold Plane, Construction Area Sign, Electrical, Emulsion supplier, Erosion Control, Lead Compliance Plan, Metal Beam Guardrail, Minor Concrete, Misc. Iron and Steel, Pavement Milling, PCC Paving, Roadside Signs, Striping, Survey/Staking, SWPPP Prep/ Water Pollution Control Plan Prepare, Temporary Erosion Control, Traffic Control Systems, Vegetation Control, Trucking, Water Trucks, Street Sweeping, Class 2 Aggregate Base Material, Hot Mix Asphalt (Type A) Material, Rubberized HMA (Open Grade) Material, Rubberized HMA (Gap Grade) Material, and Asphalt Binder,

Plans and specifications may be reviewed at our offices located at 11555 Dublin Boulevard, Dublin, CA and 3855 North Freeway Boulevard, Suite 100, Sacramento, CA or at your local Builders Exchange, or reviewed and downloaded from the dropbox site at https://www.dropbox.com/sh/5rvdc1bwfbasgl9/AAABrd0ba51_kN3GtAEsfBUoa7dl=0

or from the Owner's site at http://www.dot.ca.gov/hq/esc/oe/weekly_ads/all_adv_projects.php

Fax your bid to (925) 803-4263 to the attention of Estimator Jim Yackley. If you have questions for the Estimator, call at (925) 829-9220. When submitting any public works bid please include your DUNS number and DIR number. For questions regarding registration for DIR use the link at www.dir.ca.gov/Public-Works/Public-Works.html

If you need DBE support services and assistance in obtaining bonding, lines of credit, insurance, necessary equipment, materials and/or supplies or related assistance or services, for this project call the Estimator at (925) 829-9220, or contact your local Small Business Development Center Network (<http://californiasbdc.org>) or contact the California Southwest Transportation Resource Center (www.transportation.gov/osdbu/SBTRCs). DGC is willing to breakout portions of work to increase the expectation of meeting the DBE goal.

At our discretion, 100% Payment and 100% Performance bonds may be required as a subcontract condition. This will be a PREVAILING WAGE JOB. DGC is an Equal Opportunity/Affirmative Action Employer.

SMALL
BUSINESS
EXCHANGE



CALIFORNIA SUB-BID REQUEST ADS

SKANSKA

Subcontractor/Supplier Bids/Proposals Requested
Owner: California Department of Transportation
Caltrans Contract Number: 07-316004

Revised Proposal Due Date: August 4, 2022 – 2:00 PM
DBE – 23%

Skanska USA Civil West California District Inc. is interested in soliciting in Good Faith all subcontractors and suppliers as well as certified DBE subcontractors and suppliers related to the scopes of work below for the

CONSTRUCTION ON STATE HIGHWAY 14 IN LOS ANGELES COUNTY IN PALMDALE AND LANCASTER FROM TECHNOLOGY DRIVE UNDERCROSSING TO AVENUE "A" OVERCROSSING

Plans & Specs can be accessed and download online at:
Caltrans Office of Engineer dot.ca.gov/des/oe/weekly-ads

Requested scopes include, but are not limited to the following and should be based on the Contract and its amendments:

Construction Area Signs, Traffic Control, Striping, PCMS Boards, Temporary Railing (Type K), Implement BMP's, SWPPP, Erosion Control, Street Sweeping, Clear and Grub, Roadway Excavation, Roadway Excavation (ADL), Class 3 Aggregate Base, Hot Mix Asphalt, Place HMA Dike, Tack Coat, Remove AC Dike, Cold Plane Asphalt Concrete Pavement, Joint Seal, Remove Concrete Pavement and Base, Minor Concrete, Paving Notch Extension, Rock Slope Protection, Pre/Post Construction Surveys, Miscellaneous Iron And Steel, Guardrail Systems, Roadside Signs, Rumble Strip, 6" Rumble Strip (asphalt concrete pavement), Electrical Systems, Structural Signs, Grind Existing Concrete Pavement, Structural Concrete Approach Slab, Concrete Aggregates, Cement, Fly Ash, Admixtures, Tie Bars, Dowel Bars, RSC Aggregate and Cementitious Materials, Trucking, Quality Control, and Water trucks.

Requirements: Skanska is an Equal Opportunity Employer and is requesting quotes from all qualified subcontractors and suppliers. Skanska will assist qualified subcontractors and suppliers in obtaining bonding, lines of credit, insurance, necessary equipment, materials and/or supplies. If you are a DBE Company, please provide your certification letter with your proposal. If you are a non-DBE, please indicate all lower-tier participation on your quotation as it will be evaluated with your price. In order to assist DBE subcontractors and suppliers, we will divide total requirements into smaller packages, tasks or quantities and establish delivery and construction schedules which will permit maximum participation when feasible. Subcontracting Requirements: Skanska's insurance requirements are Commercial General Liability (GL): \$1M ea. occ., \$1M personal injury, \$2M products and completed operations agg. and general agg.; \$1M Auto Liability; \$5M Excess/Umbrella and \$1M Workers Comp. Endorsements and waivers required are the Additional Insured End., Primary Wording End., and a Waiver of Subrogation (GL & WC). Other insurance requirements may be necessary per the scope or RFP requirement. Subcontractors may be required to furnish performance and payment bonds in the full amount of their subcontract by an admitted surety and subject to approval by Skanska. Quotations must be valid for the same duration as specified by the Owner for contract award. Conditions or exceptions in Subcontractor's quote are expressly rejected unless accepted in writing. Skanska is signatory to the Operating Engineers, Laborers, Cement Masons, and Carpenters Unions. Subcontractors must provide weekly, one original and one copy of all certified payrolls, including non-performance and fringe benefit statements if required by law or by the Prime Contract. Please note that all Contractors and Subcontractors must register with the DIR (Department of Industrial Relations) in order to bid on public works projects. Include CSLB License Number and DIR Number on All Quotes Submitted.

Skanska USA Civil West California District is an Equal Opportunity/Affirmative Action Employer
EEO/AA/Vet/Disability Employer

Estimating Department: 1995 Agua Mansa Rd, Riverside, CA 92509

Phone: (951) 684-5360, Fax: (951) 788-2449

Lead Estimator: Joe Sidor Email: bids.socal@skanska.com

Below Market Rate (BMR) Rental Apartments Available South Beach Marina Apartments at 2 Townsend Street, San Francisco, CA 94107 15 One Bedrooms at \$2820 a month; 13 Two Bedrooms at \$3482 month

Parking spaces will be available to BMR renters for an additional \$219 a month and will be offered to households in lottery rank order. Must be income eligible and must not own a home. Households must earn no more than the maximum income levels below:

120% of Area Median Income

1 person - \$116,400; **2 persons** - \$133,000; **3 persons** - \$149,650; **4 persons** - \$166,250; **5 persons** - \$179,600

Applications must be received by 6/30/22.

Apply online through DAHLIA, the SF Housing Portal -DAHLIA at housing.sfgov.org. Please contact SBMA at bmr@sbma-sf.com, or call 415-247-8772 for more information.

Units available through the San Francisco Mayor's Office of Housing and Community Development and are subject to monitoring and other restrictions. Visit www.sfmohcd.org for program information.

SKANSKA

Subcontractor/Supplier Bids/Proposals Requested

Owner: San Bernardino County

Transportation Authority

IFB No. IFB22-1002780

Bid Date: July 6, 2022 – 2:00 pm

DBE 13%

Skanska USA Civil West California District Inc. is interested in soliciting in Good Faith all subcontractors, vendors and Trucking as well as certified DBE firms for this project.

For Construction Of North 1st Avenue Bridge Over the BNSF Railroad

Plans and Specifications are available through registering on our plan site at:

<https://app.buildingconnected.com/public/59b1c0096ab4570007e09292>

Requested scopes include, but are not limited to the following and should be based on the Contract and its amendments:

Site Security, Traffic Control, Signs, Fencing, SWPPP, Concrete Reinforcing, Concrete, Concrete Removal, Saw Cutting, Metal Fabrications, Electrical, Well Points, Dewatering, Clearing and Grubbing, Striping, Excavation, Riprap, Cold Plane Existing Asphalt Pavement, Aggregate Base Course, Traffic Lines and Markings, Topsoil, HDPE Pipe, Reinforced Concrete Pipe, Geotextile, Revegetation, Weir boxes, Asphalt Paving, Construction Area Signs, Concrete Highway Barriers, Minor Concrete, Shotcrete, Concrete Flatwork, Aggregate Supply, Structures and Bridge Demolition, Drainage, Drilled Shafts, Soil nails, Post Tensioning, Erosion Control, Electrical/Lighting system /ITS, Fencing, Guardrail, Landscape, Milling, Monitoring, Painting, Rebar, Signage, Sign Structures, Staining, Striping, Survey, Traffic Control, Temporary Concrete Barrier, Trucking, Sweeping, Crane Rental, Temporary Shoring, Temporary offices, Temporary K- rail, Pipe Material Supply, Concrete Formwork, Excavation, Earthwork, Quality Control, Expansion Joints.

Requirements: Insurance requirements are Commercial General Liability (GL): \$25 ea. occ., \$1M personal injury, \$2M products and completed operations agg. and general agg.; \$5M Auto Liability; \$5M Excess/Umbrella and \$1M Workers Comp. Endorsements and waivers required are the Additional Insured End., Primary Wording End., and a Waiver of Subrogation (GL & WC). Other insurance requirements may be necessary per scope or RFP requirement. Subcontractors may be required to furnish performance and payment bonds in the full amount of their subcontract by an admitted surety and subject to approval by Skanska. Quotations must be valid for the same duration as specified by the Owner for contract award. Conditions or exceptions in Subcontractor's quote are expressly rejected unless accepted in writing. Skanska is signatory to the Operating Engineers, Laborers, Cement Masons, and Carpenters Unions. Subcontractors must provide weekly, one original and one copy of all certified payrolls, including non-performance and fringe benefit statements if required by law or by the Prime Contract. All Contractors and Subcontractors must register with the DIR (Department of Industrial Relations) in order to bid on public works projects. Include CSLB License Number and DIR Number on all quotes submitted.

Skanska USA Civil West California District is an Equal Opportunity/Affirmative Action Employer
EEO/AA/Vet/Disability Employer

Estimating Department: 1995 Agua Mansa Rd, Riverside, CA 92509

Phone: (951) 684-5360

Lead Estimator: Sonny Diddle

Email: bids.socal@skanska.com

Deputy Secretary of the Treasury Wally Adeyemo Pens Op-ed in Blavity News on Juneteenth



Wally Adeyemo

Deputy Secretary of the Treasury Wally Adeyemo penned the following op-ed in Blavity News on Juneteenth underscoring that advancing racial equity is not only a moral priority but also critical to our economy.

Read the full op-ed below

Blavity News

Why Juneteenth Is A Reminder That Advancing Racial Equity Is Not Only A Moral Priority, But Also Critical To Our Economy

By: Deputy Secretary of the Treasury Wally Adeyemo

As we commemorate Juneteenth, the day in 1865 when the last bastion of institutional slavery in this country was abolished, it is important that we recognize that our work to form a more perfect union is far from complete. The fact that today, more than 150 years after the end of slavery, the median wealth of white households is nearly eight times that of Black households is not because of random luck or hard work. The profound differences we continue to see in economic opportunity are the result of a failure to establish public policy grounded in the belief that all men are created equal.

This is especially true when it comes to economic policy. The Freedman's Saving and Trust Company—or the Freedman's Bank—was created in 1865 to offer financial services to newly freed slaves soon after Juneteenth. At its height, the bank had more than 30 branches and served more than 60,000 depositors. But like so many of the promises and institutions created to support recently freed slaves, the Freedman's

Bank ultimately failed due to speculation and mismanagement. It is just one example of the posture of separate and unequal treatment that pervaded this country for generations, including in financial services.

This is why President Biden is committed to advancing racial equity not only as a moral priority for his administration but also as a critical economic priority. Today, at the same Treasury Department that failed recently freed slaves 150 years ago, we are implementing programs that represent historic investments in America's communities of color. For example, through the Emergency Capital Investment Program (ECIP) and other programs, we are investing nearly \$12 billion in America's community development financial institutions and minority depository institutions. These organizations have a long track record of serving communities of color and reaching those the financial sector has too often left behind, providing financing for affordable housing development and loans to small business owners in these communities.

Similarly, through the State Small Business Credit Initiative, a revival of a successful Obama Administration program, we are providing funding to states, territories, and Tribal governments to support investments in small businesses in their communities. This program includes \$2.5 billion in capital and incentive funding to support investments in underserved businesses, including those owned by people of color — a billion more than the value of the entire program the first time around. Programs like this provide the resources needed for small businesses to grow, individuals to build wealth and communities to thrive.

Our hope is that these programs will lay the foundation for a generational shift in opportunity for America's Black and Brown communities. Breaking down these barriers will not only create opportunity in communities of color — it will drive prosperity for all Americans who benefit from the increased innovation, job creation and purchasing power this shift will unleash.

However, if my time in government has taught me anything, it is that our greatest successes come when government initiatives are augmented by private sector and philanthropic actions rooted in the same goals and commitments. For example, the historic mobilization of resources to fight climate change — more

than \$600 billion annually, on average — has been driven by a joint public and private recognition of the urgency and opportunity presented by the move toward a green economy.

On this Juneteenth — the second time we have officially celebrated this day as a federal government — I am calling on the private sector to help us take the same approach to racial equity and economic opportunity that it is taking on climate change. Helping to unlock the unrealized potential in communities of color by equalizing their access to capital, customers, and employment and training opportunities is one of the best levers available to us to power America's economic future. McKinsey estimates that closing the racial wealth gap could add up to \$1.5 trillion to U.S. GDP over 10 years.

In the summer of 2020, in the wake of George Floyd's murder, companies and financial institutions committed more than \$200 billion to racial equity and investments in communities of color. Those commitments were heartening, and they echo the ambitions of the Freedman's Bank more than 150 years ago. But two years after the fact, not all of these commitments have been realized and not enough have focused on the structural changes needed to fundamentally shift the ways capital flows into under-resourced communities. I applaud those companies who have taken action, but I want to call attention to the bold, transformational investments still needed by these communities and families. Our goal should be to make the investments today needed to build a different kind of economy a decade from now — one that is both stronger and more equitable.

Juneteenth is many things to many people: a celebration of the day emancipation reached the furthest corners of our country, a recognition of the rich role that the descendants of slaves have played in our country's history and a day to reflect on the racial inequity that still persists in America today. I would like to add to that list that Juneteenth should be a catalyst for further action to support communities of color across the country. This must be a moment when the public sector and private sector come together — not just for the benefit of Black and Brown communities but as a way to drive growth and opportunity for the American economy as a whole.