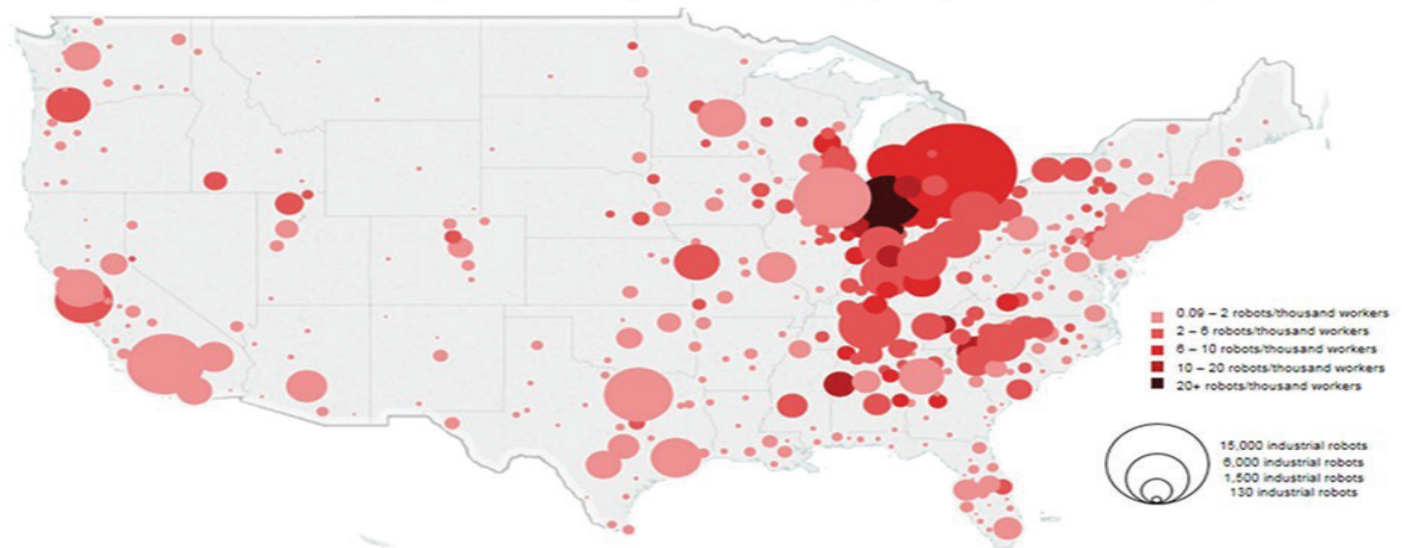


Where Robots Are Doing Factory Jobs

Almost half are clustered in the Midwest and South.

Where the robots are

Number and incidence of industrial robots (per thousand workers) by metropolitan statistical area, 2015



Note: Robot incidence reflects private employment only
Source: Brookings analysis of International Federation of Robotics data

B Metropolitan Policy Program
at BROOKINGS

By Tanvi Misra

Automation. Depending on the angle from which you're looking at the crystal ball, it's either an imminent wave of large-scale labor force devastation or a slower, more muted change that society will seamlessly absorb—and perhaps even enjoy.

A recent paper by M.I.T.'s Daron Acemoglu and Boston University's Pascual Restrepo heats up that debate. The economists find that automation in the manufacturing industry has had quite adverse effects on employment and wages—and will continue to do so. While aspects of the study's design and big-picture takeaways have been contested, this much is clear: robots have reshaped urban economies and labor markets—some more than others.

A new map, created by researchers at the Brookings Institution's Metropolitan Policy Program, supports that case. Using the same dataset as the MIT economists, researchers pinpointed metros where industrial robots—defined as “automatically controlled and reprogrammable machines” that can perform tasks traditionally done by human workers—have been concentrated since 2010. “At a minimum these technologies create near and medium term transition issues for workers,” says Mark Muro, a senior fellow and policy director at Brookings. “And that's even if they do create additional jobs in new areas as some analysts insist.”

It may not come as a surprise, but almost half of all robots currently being used are clustered in the Midwest and South—in states like Michigan, Ohio, Indiana, and Tennessee that are home to the auto industry. Among metros, Detroit tops the list, with 8.5 robots for every 1,000 workers. It is followed by Toledo, Grand Rapids, Louisville, and Nashville—manufacturing hubs where the number of factory robots has tripled between 2010 and 2015.

These aren't necessarily the places where robots will dominate in the future. In fact, adoption of automation of jobs in administration, food preparation, and sales jobs will likely occur outside the Rust Belt. The map does show, however, that incidence of robot workers, while spotty, has already had consequences in the local sphere beyond the economy. Via Brookings:

On this point, while the nation's anxiety about automation appears broad and diffuse, the specific facts of robot use suggest that the most significant social impacts of at least this form of automation remain concentrated. Specifically, the robots map suggests that robot and broader economic anxiety (along with associated labor market stresses) may also max out in the industrial Midwest—particularly in such robot-exposed “red” states as Michigan, Wisconsin, and Pennsylvania where the election's outcome was determined.

SOURCE: www.citylab.com

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California Sub-Bid Request Ads

AECOM

300 Lakeside Drive, Suite 400 • Oakland, CA 94612

REQUEST FOR DBE SUBCONSULTANT INTEREST

AECOM is bidding on the following project as Prime Contractor:

Owner: Alameda County Public Works Agency
Request for Qualifications No. R0A20151021
Civil Engineering, Environmental, and Right of Way Professional Services for
Federally Funded Projects
Proposal due date: Friday, September 1, 2017

AECOM is seeking qualifications from Disadvantaged Business Enterprise (DBE) companies for the following work:

- Pedestrian and bicycle design
- Potholing
- Utility relocation and undergrounding
- Air quality
- Noise/vibration
- Visual impact
- Archaeology
- Hazardous materials
- Paleontology
- Floodplain and water quality
- Public outreach and Communication
- Traffic signal and Electrical design
- Surveying and Mapping
- Real Estate & Right of Way Acquisition
- Landscape/Irrigation Design & Aesthetics
- Drainage and Storm Water Quality
- Bridge Structures design independent check

Experience providing similar services to the Alameda County Public Works Agency is preferred. This Statement of Qualifications is in alignment with the Alameda County Public Works Agency DBE Program requirements and certified DBEs are encouraged to respond.

Interested businesses should email a brief overview of Alameda County Public Works Agency or similar experience, along with DBE documentation by Friday, August 25, 2017, to **TJ Koski** at tj.koski@aecom.com, or by Phone 916.266.4916 or Fax 916.414.5850.

Assistance is available in obtaining any necessary bonding; lines of credit or insurance; information related to the requirements for the work; and necessary equipment, supplies materials, or related services.

We are an Equal Opportunity Employer



DBE Bidding Opportunities Los Angeles, CA

Regional Connector Transit Corridor Project

For Metro Contract No. C0980

Opportunities to provide sub-quotes include:

- Furnish LADWP Metering Switchgear and raceway to TPSS Gear.
- Install LADWP Metering Switchgear and raceway to TPSS Gear.
- Furnish Cable Tray, Panels, & Conduit for Disconnect Switch Rooms
- Install Cable Tray, Panels, & Conduit for Disconnect Switch Rooms.
- Furnish Cable Tray, Panels, and Conduit for TPSS & HV Rooms.
- Install Cable Tray, Panels, and Conduit for TPSS & HV Rooms.
- Furnish Panels and Power for TC&C Room.
- Install Panels and Power for TC&C Room.

Time Frame: Early/Mid 2020

Notice of Interest Response Deadline:
September 5, 2017

Contact Information:
 Zack Aemmer (323-973-4947)
Regional.DBE@masselec.com

Mass Electric Construction Co.
 Is an Equal Opportunity Employer.
 This solicitation is in response to Metro's DBE requirements and MECT intends to conduct itself in good faith with DBE firms seeking subcontract opportunities for the contract.

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California Sub-Bid Request Ads



BROSAMER & WALL, INC.

An Equal Opportunity Employer
is requesting quotations from all qualified

DBE

Professional services, sub-contractors, material suppliers and trucking for the following project:

**02-4G5504 - Reconstruct with HMA and PCC, Widen Structure and Upgrade Rails
In Siskiyou County And Near Dunsmuir**

From Sacramento River Bridge To 0.6 Mile South Of North Mount Shasta Underpass

Bid Closing Date: September 6, 2017 @ 2:00 PM

DBE GOAL: 8%

CONTACT:

**Brosamer & Wall Inc.
1777 Oakland Blvd, Suite 300
Walnut Creek, California 94596
PH: 925-932-7900 • FAX: 925-279-2269**

PROJECT SCOPE:

We are requesting bids for the following trades and/or material suppliers:

Brosamer & Wall Inc., is requesting quotes from all qualified subcontractors and suppliers including certified DBE firms for all items of work type, including but not limited to:

- ASPHALT
- BRIDGE DEMO
- CONCRETE BARRIER
- CONCRETE PAVING
- CONCRETE STRUCTURES
- CONSTRUCTION AREA SIGNS
- EARTHWORK/GRADING
- ELECTRICAL
- EROSION CONTROL
- GRINDING (COLD MILL)
- METAL BEAM GUARD RAIL (MBGR),
- MINOR CONCRETE
- PILING
- ROADSIDE SIGNS
- RUMBLE STRIP
- SCHEDULE DEVELOPER
- SIGN STRUCTURES
- STORM DRAIN UNDERGROUND
- STREET SWEEPING
- STRIPING
- SWPPP/WPC
- TRAFFIC CONTROL
- AGGREGATES SUPPLY
- TRUCKING
- ASPHALT OIL
- JUST-IN-TIME TRAINING
- SERVICE PATROL VEHICLE

For the complete list of Actual Project Bid Items, please visit:

<http://www.dot.ca.gov/des/oe/weekly-ads/oe-biditems.php?q=02-4G5504>

Requirements: Brosamer & Wall, Inc. will work with interested subcontractors/suppliers to identify opportunities to break down items into economically feasible packages to facilitate DBE Participation. Brosamer & Wall, Inc. is a union signatory contractor. Subcontractors must possess a current contractor's license, insurance coverage 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 Robert Rosas contact information below.

Plans and specifications can be viewed at our office located at 1777 Oakland Blvd Suite 300, Walnut Creek, Ca. 94596 or at no cost from Caltrans website. B&W will also make plans electronically please email rosas@brosamerwall.com for free online link. Brosamer & Wall INC., intends to work cooperatively with all qualified firms seeking work on this project. If you are interested in submitting a subcontractor bid for this project, you may contact Robert Rosas Chief Estimator at 925-932-7900 or fax us your quote at 925-279-2269. PLEASE SUBMIT A COPY OF YOUR CURRENT DBE CERTIFICATION WITH YOUR BID. Subcontractors, Dealers/Suppliers and Brokers please provide your designation code to us on or before the bid date. B&W, INC., IS AN EQUAL OPPORTUNITY EMPLOYER.

Pacific States

ENVIRONMENTAL CONTRACTORS, INC.

CAL LIC. NO. 723241

11555 Dublin Boulevard • Dublin, CA 94568-2909

Phone: (925) 803-4333 • FAX: (925) 803-4334

Estimator: Pete Timmerman

ptimmerman@pacificstates.net

Pacific States Environmental Contractors, Inc. (PSEC) is preparing a bid as a Prime Contractor for the project listed below:

**Water Pollution Control
Plant Dirt Removal 2017**

**Owner:
City of San Leandro
835 East 14th Street 2nd Floor
San Leandro, CA**

BID DATE: September 7, 2017 @ 1:00 PM

We hereby encourage responsible Participation of San Leandro Local Business Enterprises (LBE) and solicit their subcontractor, materials and/or suppliers and trucking quotation for the following types of work including but not limited to:

Trucking and Erosion Control

At our discretion, 100% Payment and 100% Performance bonds may be required as a subcontract condition. Please call if you need assistance in obtaining bonding, insurance, equipment, materials and/or supplies for this project.

This will be a PREVAILING WAGE JOB.

Plans and specifications may be reviewed at our office located at 11555 Dublin Boulevard, Dublin, CA, or an electronic version is free, transferred via file transfer protocol (FTP) Site. The Project plans and contract book may be obtained free of charge from the City's website <http://www.sanleandro.org/depts/finance/purchasing/bids>.

PSEC is willing to breakout any portion of work to encourage Local Business participation (LBE) and solicit their subcontractor or materials and/or suppliers and trucking quotation as well as increase the expectations of meeting the City of San Leandro's Local Business Participation Goal (LBE). If you require any assistance, please contact the Estimator, Pete Timmerman email him at ptimmerman@pacificstates.net or call (925) 803-4333. Bids may be faxed to us at (925) 803-4334. 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. We are an equal opportunity employer.





California Sub-Bid Request Ads



Kiewit

Kiewit Infrastructure West Co.

4650 Business Center Drive Fairfield, CA 94534
Attn: Victor Molina • norcal.bids@kiewit.com
Fax: 707-439-7301

Requests sub-bids from qualified Contract Monitoring Division (CMD) Small and Micro-LBEs, San Francisco Public Utilities Commission (SFPUC) certified Local Business Enterprises (LBE), CUCP and SBA certified Disadvantaged Business Enterprises (DBE) Subcontractors, Consultants, and/or Suppliers seeking to participate in the SFPUC, SEWPCP New Headworks Facility Scope 1 Site Preparation Project in San Francisco, CA.

<http://www.sfgov.org/cmd>

<http://www.epa.gov> / <http://www.sba.gov>
www.californiaucp.org

Subcontractors and Suppliers for the following project:

**SEWPCP New Headworks Facility Scope 1
Site Preparation Project**
Contract No. WW-628
Owner: San Francisco
Public Utilities Commission
Bid Date: September 15, 2017 @ 2:00 P.M.

Local Business Enterprises, Small/Micro (LBEs)
Disadvantaged Business Enterprises (DBEs)

Disabled Veteran Business Enterprises (DVBE), Minority Business Enterprises (MBE), Women Business Enterprises (WBE), Small Business Enterprises (SBE), Small Businesses in a Rural Area (SBRA), Labor Surplus Area Firms (LSAF), or Historically Underutilized Business (HUB) Zone Businesses

wanted for the following scopes, including, but not limited to:

Aggregates, Cellular Concrete, Concrete Supply, Concrete Pumping, Concrete Reinforcement Supply & Install, Precast Concrete, CIDH, CLSM, Crew Transportation, Dewatering, Fencing, Groundwater Monitoring, Piping, Shoring, Street Sweeping, SWPPP, Trucking & Hauling and Water Truck.

Bonding, insurance and any technical assistance or information related to the plans or specification and requirements for the work will be made available to interested CMD and SFPUC certified, LBE, Small/Micro SB LBE and CUCP, MBE, SBE, SBRA, LSAF OR HUB certified DBE suppliers and subcontractors. Please visit SFPUC website: <http://sfgov.org/cmd/surety-bond-assistance-program-1> for their Bond Assistance Program. Assistance with obtaining necessary equipment, supplies, materials, or services for this project will be offered to interested certified suppliers and subcontractors.

**Subcontractor and Supplier Scopes are due
September 11, 2017 and Quotes NO LATER THAN
September 14, 2017 at 5 PM.**

Plans are available for viewing at our office at our address below and through SmartBidNet (SBN).

All subcontractors that are registered in our SBN database will receive an invitation to bid. Please visit <http://www.kiewit.com/districts/northern-california/overview.aspx> to complete the SFPUC Confidentiality Agreement, register your company and to receive bidding information, view plans and specifications.

You can view the plans in our office during regular business hours by appointment.

Performance Bond and Payment Bonds may be required for subcontractors and a suppliers bond for suppliers, where applicable.

Clean Water State Revolving Fund (CWSRF) Provisions apply

Prevailing Wages apply

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CA Lic. 433176
DIR # 1000001147



Kiewit

Kiewit Infrastructure West Co.

4650 Business Center Drive Fairfield, CA 94534
Attn: Victor Molina • norcal.bids@kiewit.com
Fax: 707-439-7301

Requests sub-bids from qualified Contract Monitoring Division (CMD) Small and Micro-LBEs and San Francisco Public Utilities Commission (SFPUC) certified Local Business Enterprises (LBE) Subcontractors, Consultants, and/or Suppliers seeking to participate in the SFPUC, Moccasin Penstock Rehabilitation Project in Tuolumne, CA.

<http://www.sfgov.org/cmd>

Subcontractors and Suppliers for the following project:

Moccasin Penstock Rehabilitation Project
Contract No. HH-990
Project No. CUH10116
Owner: San Francisco Public Utilities Commission
Bid Date: August 31, 2017 @ 2:00 P.M.

Local Business Enterprises and Small/Micro (LBEs)

wanted for the following scopes, including, but not limited to: Concrete, Forming, Concrete Supply, Concrete Reinforcement Supply & Install, Demolition, Electrical, Metals, Painting & Coatings, Piping & Valves, Sealants, Survey, Street Sweeping, SWPPP, Thermal & Moisture Control, Traffic Control, Trucking & Hauling, Water Truck and Welding.

Bonding, insurance and any technical assistance or information related to the plans or specification and requirements for the work will be made available to interested CMD and SFPUC certified, LBE and Small and Micro SB LBE suppliers and subcontractors. Please visit SFPUC website: <http://sfgov.org/cmd/surety-bond-assistance-program-1> for their Bond Assistance Program. Assistance with obtaining necessary equipment, supplies, materials, or services for this project will be offered to interested certified suppliers and subcontractors.

**Subcontractor and Supplier Scopes
are due August 25, 2017 and**

Quotes NO LATER THAN August 30, 2017 at 5 PM.

Plans are available for viewing at our office at our address below and through SmartBidNet (SBN).

All subcontractors that are registered in our SBN database will receive an invitation to bid. Please visit <http://www.kiewit.com/districts/northern-california/overview.aspx> to complete the SFPUC Confidentiality Agreement, register your company and to receive bidding information, view plans and specifications.

You can view the plans in our office during regular business hours by appointment.

Performance Bond and Payment Bonds may be required for subcontractors and a suppliers bond for suppliers, where applicable.

State Prevailing Wages apply.

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CA Lic. 433176
DIR # 1000001147

DESILVA GATES

CONSTRUCTION

11555 Dublin Boulevard • P.O. Box 2909
Dublin, CA 94568-2909
(925) 829-9220 / FAX (925) 803-4263
Estimator: VICTOR LE
Website: www.desilvagates.com
An Equal Opportunity Employer

DeSilva Gates Construction (DGC)
is preparing a bid as a Prime Contractor for the
project listed below:
**LAUREL ACCESS TO MILLS, MAXWELL PARK
AND SEMINARY (LAMMPS) PHASE 1
PROJECT NO. 1000634**

FEDERAL PROJECT NO. ATPL-5012(131)

OWNER: CITY OF OAKLAND
Department of Transportation
250 Frank H. Ogawa Plaza, Suite 4314
Oakland, CA 94612

BID DATE: AUGUST 31st, 2017 @ 2:00pm.

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

Adjust Iron, Clearing and Grubbing/Demolition, Construction Site Management, Electrical, Fencing, Landscaping, Minor Concrete, Minor Concrete Structure, Roadside Signs, Slurry Seal, Striping, Survey/Staking, SWPPP Prep/Water Pollution Control Plan Prepare, Underground, Trucking, Water Trucks, Street Sweeping, Imported Borrow, Class 2 Aggregate Base Material, and Hot Mix Asphalt (Type A) Material..

Plans and specifications may be reviewed at our offices located at 11555 Dublin Boulevard, Dublin, CA or 7700 College Town Drive, Sacramento, CA, or at your local Builders Exchange, or reviewed and downloaded from the ftp site at <ftp://ftp%25desilvagates.com:f7pa55wd@pub.desilvagates.com> (if prompted the username is [ftp@desilvagates.com](ftp://ftp%25desilvagates.com) and password is [f7pa55wd](ftp://ftp%25desilvagates.com)) or from the Owner's site: <http://www2.oaklandnet.com/Government/o/CP/s/ContractingPurchasingOpportunities/index.htm> or

CIPLIST.com: <http://ciplist.com/plans/?Oakland/city/9392>.

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/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/SB-TRCs). 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 employer.

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California Sub-Bid Request Ads



O.C. Jones & Sons, Inc.
 1520 Fourth Street • Berkeley, CA 94710
 Phone: 510-526-3424 • FAX: 510-526-0990
 Contact: Jean Sicard
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REQUEST FOR
 LIABE/LBABA/SBE/VSBE
 SUBCONTRACTORS AND SUPPLIERS
 FOR:

**Rail Infrastructure at the Maritime
 Support Center (MSC)
 Port of Oakland
 Project #2017-07-M1
 BID DATE: August 30, 2017 @ 12:00 PM**

We are soliciting quotes for (including but not limited to): Trucking, SWPPP, Erosion Control, Traffic Control, Fencing, Sawcutting, Grinding, Furnish & Install Track with Timber Ties, Weld Rail, Insulated Joints, Concrete Crossing Railroad Panels, Rubber Rail Guard Flangeway Fillers, Signal House for Grade Crossing Active Warning System, Water Line, Fire Hydrant, Storm Drain, Sanitary Sewer Pipe, Kinder Morgan Facility Protection, Minor Concrete, Electrical, Striping & Marking, Roadside and Trackside Signs, Security Gates, Bollards and Construction Materials.

100% Performance & Payment Bonds may be required. Worker's Compensation Waiver of Subrogation required. Please call OCJ for assistance with bonding, insurance, necessary equipment, material and/or supplies. OCJ is willing to breakout any portion of work to encourage LIABE/LBABA/SBE/VSBE participation. Plans & Specs are available for viewing at our office or through.



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Proven Management, Inc.

225 3rd Street, Oakland, CA 94607 Phone: 510-671-0000 • Fax: 510-671-1000

Requests proposals/quotes from all qualified and certified SBE, LBE, MBE, WBE subcontractors, suppliers, and truckers for the following project:

**RAIL INFRASTRUCTURE AT THE MARITIME SUPPORT CENTER (MSC), OAKLAND, CA • PROJECT #2017-07-M1
 Bids: August 30, 2017 @ 12 pm**

Dewatering; Traffic Control Systems; Railroad System Rail; Crane Rail Track Work; Earthwork; Underground Utilities; Sanitary Sewer System; Storm Drainage; Railroad Trackwork; Railroad Ballast; Chain Link Fences, Gates & Bollards; Concrete Sidewalks, Curbs & Gutters; AC Pavement; Pavement Striping & Roadway Signs; Reinforcing Steel; Structural Concrete; Non-Structural Concrete; Railroad Signal; Electrical Grounding & Bonding; Overhead Electrical; Low-Voltage Transformers; Exterior Lighting

Bonding, insurance, lines of credit and any technical assistance or information related to the plans & specifications & requirements for the work will be made available to interested SBE/MBE/WBE certified suppliers, subcontractors, and truckers. Assistance with obtaining necessary equipment, supplies, materials, or related assistance or services for this project will also be offered to interested SBE/MBE/WBE firms. PMI is signatory to the Operating Engineers, Carpenters, and Laborers Collective Bargaining Agreements. 100% Payment & Performance bonds will be required from a single, Treasury-listed surety company subject to PMI's approval. PMI will pay bond premium up to 1.5%. Subcontractors awarded on any project will be on PMI's standard form for subcontract without any modifications. For questions or assistance required on the above, please call.

We are an Equal Opportunity Employer

LOUISVILLE, KENTUCKY SUB-BID REQUEST AD

Shea Traylor JV

(J.F. Shea Construction, Inc. & Traylor Bros., Inc. Joint Venture)
 BIDDING OPPORTUNITY

MBE/WBE Certified with the following certifying authority:

MBE/WBE Certified with the following certifying authority:
 MSD does not certify M/WBE businesses. MSD will accept national and federal certifications from the following organizations and their regional affiliate offices:

- National Minority Supplier Development Council (NMSDC)
- National Women Business Owners' Council (NWBOC)
- Women's Business Enterprise National Council (WBENC)
- U.S. Small Business Administration 8(a) Program (U.S. SBA 8(a))

Inviting qualified contractors, specifically **MBE/WBE firms certified/eligible as listed above**, to contact J.F. Shea Construction, Inc. (Prime Contractor listed below) regarding subcontracting services and material supply opportunities in connection with the upcoming tunnel and shafts project.

The Work under this contract is located in Louisville, Kentucky. The Work consists of:

**LOUISVILLE AND JEFFERSON COUNTY
 METROPOLITAN SEWER DISTRICT
 OHIO RIVER TUNNEL
 TUNNEL AND SHAFTS PACKAGE
 CONTRACT NO. 15907
 BID DATE: September 14, 2017 @ 1:30 PM**

Opportunities to participate exist in the following specific areas of soil and rock excavation, hauling, excavation support systems, underground blasting, structural steel, engineering, survey, instrumentation and monitoring services, materials testing, demolition and site preparation, environmental investigation, utility relocation, paving, fencing and gates, geotechnical and structural instrumentation, slurry wall, cased auger shaft construction, secant piles, cast-in-place concrete structures, reinforcing steel, ground stabilization, rock-bolts, steel dowels, shotcrete, concrete finishing, waterproofing, service utilities, grouting, mechanical equipment – hydraulic, sluice & weir gates, electrical services, pest control, IT services, security, waste disposal, cleaning services, chemical toilets and security services.

Any business seeking to participate as an M/WBE in the Contract that is not currently certified by the requirements set forth above should confirm their status as shown to obtain current certification.

J.F. Shea Construction, Inc. set up an FTP site where you can view all plans, specifications and addendums for your convenience. Please contact Steve Fiori at (909) 595-4397, Steven.Fiori@jfshea.com, to receive instructions on accessing the FTP Site.

**Shea Traylor JV
 An EEO Employer**

667 Brea Canyon Road, Suite 22 • Walnut, CA 91789
 909-594-0990 • 909-869-0827 (fax)
 Attn: David Olson, Chief Estimator