

Vol 33, Edition 68

Daily Publication

September 18, 2017

Better together: Why construction needs collaboration to work efficiently



Viewing the upcoming project on the Building Information Modelling (Bim) program.

By Mike Scott,

For centuries, the building trade has been a hugely fragmented industry, with lots of different companies coming together for a particular building and then moving on to different projects.

Typically, a client will commission an architectural team or design team, then engineers will become involved, explains Graham Watts, chief executive of the Construction Industry Council. Building services consultants and structural engineers get the call next, before a separate building contractor finally arrives to undertake the actual work itself. "And that contractor won't directly employ many of the people working on site. He will subcontract out various parts of the work," Watts says.

Breaking out of "little bubbles"

Such fragmentation means that it takes a long time for best practice to filter through, he continues: "A particular project may see some innovation that is a better way of working that could benefit the whole industry, but that team disintegrates at the end of the project and that innovation is lost."

In addition, there is a lot of wastage in the system. Some owners, architects or designers insert certain criteria into the building specifications, such as environmental product declarations that require certain sustainability standards, explains Heather Gadonniex, head of the building and construction team at PE International, a consultancy that specialises in life cycle assessment. Yet procurement teams or contractors often ride roughshod over such requirements in their pursuit of short-term cost reduction.

"There is a common understanding that there needs to be greater collaboration and better integration between the various parties in the design and construction process," she says.

That is beginning to happen. The emergence of national Green Building Councils and building standards such as Breeam and Leed v4 are providing incentives to follow more integrated design processes. But such approaches remain fairly niche in the building sector.

"It's not just about particular products – it's about the entire design process," says Gadonniex. "If you want to build a net-zero building or just a beautiful and functional building, you have to have the contractors interacting with the mechanical contractors interacting with the designers and the architects. In the past, everyone worked in their own little bubbles and that separation made it a challenge to meet common goals."

Modelling Collaboration

New technology and ways of working are helping to break down barriers between the different players in the construction process. Integrated Project Delivery (IPD), which advocates the collective harnessing of all project participants' talents and insights, is one approach that many in the industry think can make the process more collaborative. "IPD allows discussion at the start of the project to create stronger links between all the various stages. It's extremely important to break down the silos that exist in the industry," says Gadonniex. "A lot of the siloed nature of the industry goes with the fear of losing one's territory and not accepting the benefits of this type of collaboration, particularly when it comes to saving time and money."

A central aspect of IPD is Building Information Modelling (Bim), which Watts describes as "a real force for collaboration, because it can't really operate unless you have the entire team on board at the earliest possible stage – which encourages much earlier contractor involvement".

Bim is a single digitally enabled integrated model of a building's designs and specifications that allows all the various people involved in a project to see what has gone before and what needs to be done. "The biggest enemy of the construction industry was the arrival of email," says Watts. "Two parties would make amendments to the drawings but they wouldn't tell

Continued on page 5

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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:

04-4G0564

ROUTE 680 ROADWAY REHAB, BRIDGE REPLACEMENT, RET. WALLS, TOLL SYSTEMS FOR CONSTRUCTION ON STATE HIGHWAY IN FREMONT AND AT SUNOL FROM MISSION BOULEVARD SEPARATION TO KOOPMAN ROAD UNDERCROSSING

Bid Closing Date: October 3, 2017 @ 2:00 PM DBE GOAL: 12%

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:

- AC DIKE.
- ASPHALT OIL MATERIAL SUPPLIER,
- CAS.
- CIDH PILES,
- CLEAR & GRUB,
- COLD PLANE.
- CONCRETE BARRIER,
- DEMOLITION BRIDGE REMOVAL,
- ELECTRICAL,
- EROSION CONTROL (PERM AND TEMP),
- FABRIC AND OILS,
- GENERAL TRUCKING,
- GROUND ANCHOR (SUBHORIZONTAL),
- JOINT SEAL.
- JOINTED PLAIN CONCRETE PAVEMENT (RSC),
- LEAD ABATEMENT PLANS,
- MBGR,
- MINOR CONCRETE STRUCTURE,
- PAVEMENT REINFORCING FABRIC,

- PIPE (UNDERGROUND) SUPPLIER,
- PRECAST JOINTED CONCRETE PAVEMENT,
- REINFORCING STEEL,
- RESET-ADJUST ROADWAY ITEMS,
- ROADSIDE SIGNS
- RUMBLE STRIP (ASPHALT CONCRETE PAVE-
- MENT), • SIGN STRUCTURES,
- SOIL NAIL
- STEEL STRUCTURES,
- STORM DRAIN (UNDERGROUND),
- STREET SWEEPING,
- STRUCTURAL CONCRETE,
- SWEEPER
- SWPPP PLANS.
- THERMOPLASTIC PAVEMENT MARKINGS,
- THERMOPLASTIC TRAFFIC STRIPING,
- TRAFFIC CONTROL DEVICES,
- TRAFFIC CONTROL
- WATER TRUCK,

For the complete list of the Actual Project Bid Items go to: http://www.dot.ca.gov/des/oe/weekly-ads/oe-biditems.php?q=04-4G0564

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 rrosas@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.

iewit

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 22, 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 Reinforce-ment Supply & Install, Precast Concrete, CIDH, CLSM, Crew Transportation, Dewatering, Fenc-ing, 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 http://sfgov.org/cmd/surety-bond-assistancewebsite: 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 15, 2017 and Quotes NO LATER THAN September 21, 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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CAL LIC. NO. 723241 11555 Dublin Boulevard • Dublin, CA 94568-2909 Phone: (925) 803-4333 • FAX: (925) 803-4334 Estimator: Keith Donahue kdonahue@pacificstates.net

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

Sacramento Municipal Utility District (SMUD) RFP No: 170143.JM Project: Station E Substation – Phase1B Waste Excavation and Rough Grading Bid Date: Thursday, October 5, 2017 at 4:00PM

Owner: Sacramento Municipal Utility District (SMUD) 4401 Bradshaw Road, Sacramento, CA 95827

We hereby encourage responsible Participation of Sacramento 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, Survey, Hydroseed

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.

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 SMUD SEED Program.

Looking for SMUD's SEED local small businesses, To qualify a business must be certified as a Small Business or Microbusiness by the state Department of General Services (DGS) and must be a SMUD ratepayer for the past six months at the DGS certification address of record. All subcontractors interested in sending a bid can contact Keith Donahue the estimator at kdonahue@pacificstates.net or fax bid to 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/Public-Works.html.

We are an equal opportunity employer.

11555 Dublin Boulevard • P.O. Box 2909 Dublin, CA 94568-2909 (925) 829-9220 / FAX (925) 803-4263 Estimator: ALAN MCKEAN 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:

FEATHER RIVER BOULEVARD REHAB PROJECT, Contract No. 2017-2244 Federal No. STPL-5916(120), Disadvantaged Business Enterprise Goal Assigned is 8%

> OWNER: COUNTY OF YUBA Office of the County Clerk,

915 8th Street, Suite 107, Marysville, CA 95901 BID DATE: SEPTEMBER 20, 2017 @ 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:

COLD PLANE, PAVING FABRIC, STRIPING, SWPPP/WATER POLLUTION CONTROL PLAN PREPARATION, TRUCKING, WATER TRUCKS, STREET SWEEPING, CLASS 2 AGGREGATE BASE MATERIAL, 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 and password is f7pa55wd) or from the Owner's site at http://www.co.yuba.ca.us/ Departments/Community%20Development/Public%20 Works/pubbid_opens.aspx.

Fax your bid to (925) 803-4263 to the attention of Estimator Alan McKean. 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 gev/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.





Gallagher & Burk, Inc.

344 High Street • Oakland, CA 94601 Phone: (510) 261-0466 • FAX (510) 261-0478 Estimator: Jim Yackley Website: www.gallagherandburk.com

Gallagher and Burk, Inc. is soliciting for L/SLBEs for the following project.

CITYWIDE PAVEMENT REHABILITATION REBID PROJECT NO. C1003298 L/SLBE GOAL: 50%

OWNER: CITY OF OAKLAND 250 Frank H. Ogawa Plaza, Room #101, Oakland, CA 94612

BID DATE:

SEPTEMBER 21ST , 2017 @ 2:00 P.M.

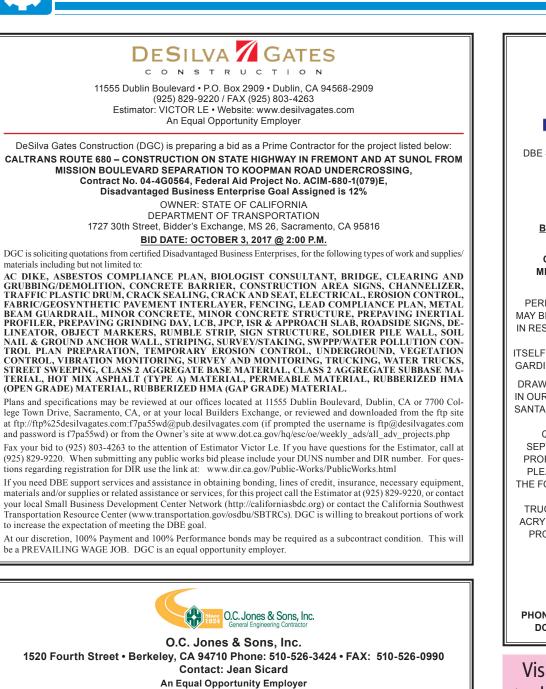
We hereby encourage responsible participation of Local & Small Local Business Enterprises, and solicit their subcontractor or materials and/or suppliers quotation for the following types of work including but not limited to:

Adjust Iron, Minor Concrete, Roadside Signs, Roadway Excavation, Slurry Seal, Striping, Survey/Staking, Traffic Control Systems, Trucking, Water Trucks, Street Sweeping, Class 2 Aggregate Base Material, Hot Mix Asphalt (Type A) Material, Hot Mix Asphalt (Type B) Material and Rubberized HMA (Gap Grade 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%25gallagherburk. com:f7pa55wd@pub.gallagherburk.com (if prompted the username is ftp@desilvagates.com and password is f7pa55wd) or from the Owner's ISupplier System free of charge at http://www2.oaklandnet.com/Government/o/ CP/s/ContractingPurchasingOpportunities/index.htm or from CIPList.com http://ciplist.com/plans/?Oakland/ city/9392.

Fax your bid to (510) 261-0478 to the attention of Estimator Jim Yackley. If you have questions for the Estimator, call at (510) 261-0466. 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 L/SLBE 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 (510) 261-0466, 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). GBI is willing to breakout portions of work to increase the expectation of meeting the L/SLBE goal. At our discretion, 100% Payment and 100% Performance bonds may be required as a subcontract condition. This will be a PREVAILING WAGE JOB. GBI is an equal opportunity employer.



REQUEST FOR DBE SUBCONTRACTORS AND SUPPLIERS FOR:

Repair Sinking Pavement and Drainage Systems Hwy 101 Marin County Caltrans #04-2J4804

BID DATE: September 26, 2017 @ 2:00 PM

We are soliciting quotes for (including but not limited to): Trucking, Lead Compliance Plan, Construction Area Signs, Traffic Control System, Portable Changeable Message Sign, WPCP, Sweeping, Imported Borrow, Cellular Concrete Lightweight Embankment Material, Lightweight Aggregate, Rapid Strength Concrete Base, Geosynthetic Pavement Interlayer, Tack Coat, Cold Plane AC, Steel Sheet Piling, Structural Concrete, Minor Concrete, Misc. Iron & Steel, Striping & Marking, Electrical 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 DBE Participation. Plans & Specs are available for viewing at our office or through the Caltrans Website at www.dot.ca.gov/hq/esc/ oe/weekly_ads/index.php.





DBE SUBCONTRACTORS/SUPPLIER BIDS/ PROPOSALS REQUESTED

> CONTRACT NO. C1146 METRO FACILITIES GROUTING AND WATER REMEDIATION

BID/PROPOSAL SUBMITTAL DATE: SEPTEMBER 28, 2017 @2PM

OWNER: LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY (LACMTA)

PERFORMANCE/PAYMENT/SUPPLYBOND MAY BE REQUIRED THIS ADVERTISEMENT IS IN RESPONSE TO LACMTA'S DBE PROGRAM. HBI. INTENDS TO CONDUCT

ITSELF IN "GOOD FAITH" WITH DBE FIRMS RE-GARDING PARTICIPATION ON THIS PROJECT.

DRAWINGS AND SPECS WILL BE REVIEWED IN OUR OFFICE (1780 E. LEMONWOOD DRIVE, SANTA PAULA, CA 93060) MONDAY THROUGH FRIDAY 8:00AM TO 5:00PM. QUOTES ARE REQUIRED BY COB, SEPTEMBER 27, 2017,SO THAT ALL BIDS/ PROPOSALS CAN BE FAIRLY EVALUATED. PLEASE SUBMIT BIDS/PROPOSALS FOR THE FOLLOWING WORK/SUPPLIES (BUT NOT LIMITED TO): TRUCKING, REBAR, PORTLAND CEMENT, ACRYLATE POLYURETHANE RESIN, WATER PROOFING, BENTONITE POWDER, AND BAGGED MICROFINE CEMENT.

CONTACT: DANE TAYLOR, PROJECT MANAGER 1780 E. LEMONWOOD DRIVE SANTA PAULA, CA 93060 PHONE: (805) 933-1331 FAX: (805) 933-1338 DCTAYLOR@HAYWARDBAKER.COM

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Is requesting quotes from qualified DBE Subcontractors, Suppliers, and Service Providers for the following (but not limited to) work

Pavement Grinding, AC Paving, Stripe & Mark, Traffic Control, Aggregate, Pipe PVC, SWPPP, Schedule, Shoring, Bore & Jack, CCTV

Hi-Desert Water District Wastewater Reclamation Project Phase 1 Collection System Bid Package C

Located in Yucca Valley, San Bernardino County, California

Hi-Desert Water District BID DATE October 10, 2017 @ 2:00 p.m.

Sub & Vendor Scopes and Bids Due Prior

Sukut Construction, LLC

4010 W. Chandler Avenue, Santa Ana, CA 92704 Contact: Robbie Zwick

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's website at https:// atkins.box.com/s/mgqmrt22xz2ge18jqhmi3w1qxsnusrq. Subcontractors must be prepared to furnish 100% performance and payment bonds and possess current insurance and workers' comp coverage. Sukut Construction 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 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 of 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

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CAHILL CONTRACTORS, LLC Colby Smith at estimating@cahill-sf.com (415) 677-0611

CAHILL CONTRACTORS, LLC requests bids from Certified SBE Subcontractors and Suppliers EXCEPT for the following TRADES:

Site Clearing & Demo / Windows & Glazing / Shoring & Underpinning / Piles / Drilled Piers & Ground Improvement / Personnel Hoist / Crane Service / Elevators / MEP Design Build / Fire Sprinklers / Exterior Building Maintenance / Signage

1296 SHOTWELL ST. SENIOR AFFORDABLE HOUSING (REMAINING TRADES) 1296 Shotwell Street, San Francisco, CA 94110

This is CMD project with construction workforce and prevailing wage requirements.

BID DATE:10/13/17 @ 2PM Voluntary Pre-bid Meeting: 9/26/17 @ 2PM, Cahill's Office 425 California St., Suite 2200 San Francisco, CA 94104 Voluntary Job Walk: 9/27/17 @ 10AM BID DOCUMENTS: Please contact Colby for access to documents on BuildingConnected.

CAHILL CONTRACTORS, LLC Colby Smith at estimating@cahill-sf.com (415) 677-0611

CAHILL CONTRACTORS, LLC requests bids from ALL Certified SBE Subcontractors and Suppliers <u>EXCEPT</u> for the following TRADES:

Site Clearing & Earthwork / Shoring & Underpinning / Exterior Building Maintenance / Fire Sprinklers / Plumbing / HVAC / Electrical / Solar Panels

PARCEL Q (REMAINING TRADES) 1491 Sunnydale Ave, San Francisco, CA 94134

This is a CMD project with construction workforce and prevailing wage requirements.

BID DATE: 9/29/17 @ 2PM

Voluntary Pre-bid Meeting: 8/31/17 @ 10AM, Cahill's Office 425 California St., Suite 2200 San Francisco, CA 94104

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



Proven Management, Inc. 3rd Street, Oakland, CA 94607 Phone: 671-0000 • Fax: 510-671-1000

Requests proposals/quotes from all qualified and certified Disadvantaged Business Enterprises (DBE) subcontractors, suppliers, and truckers for the following project:

SAN BRUNO CANAL BRIDGE REPLACEMENT PROJECT SOUTH AIRPORT BOULEVARD, SOUTH SAN FRANCISCO CITY OF SOUTH SAN FRANCISCO BID # 2583 BIDS: September 28, 2017 @ 2pm SUBCONTRACTING GOAL - DBE - 8%

The work consists of bridge removal, removal of concrete and paving, earthwork, temporary traffic control, water pollution control during construction, temporary creek diversion, asphalt and concrete paving, construction of pre-stressed castin-place concrete bridge on driven piles, signals and lighting, and signing and striping, located at Airport Boulevard at I-380, South San Francisco, California.

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 DBE certified suppliers & subcontractors. Assistance with obtaining necessary equipment, supplies, materials, or related assistance or services for this project will also be offered to interested DBE certified suppliers, subcontractors, truckers. PMI is signatory to the Operating Engineers, Carpenters, and Laborers Collective Bargaining Agreements.

100% Payment & Performance bonds will be required from a single, Treasurylisted 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.

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Better together

Continued from page 1

anyone else. With Bim everyone can see what has happened."

Bim makes projects much quicker, smoother and cheaper, he adds, which is why the government has said that all new public sector buildings must be developed using the technology from 2016.

However, Bim is only being used properly on the largest projects, says Barry Connolly, a director at real estate consultancy JLL. "There is still a big disconnect within the industry. Architects and designers generally collaborate well, but even if they develop a project in Bim, the contractor will often do nothing with it because their own supply chains have not invested in Bim."

There is a further disconnect between a building's developer and its end-occupier. If the tenant knew that a developer could save him 30% on energy costs by specifying certain equipment or materials, a different decision might be made, Connolly reasons: "But because the developer mostly does not know who the tenant will be, they can't justify the extra expense."

Change will come as best practice filters down from the largest players to the rest of the industry. But the pace is unlikely to be lightning quick, unfortunately. In the building industry, as Connolly ruefully concludes, "things don't change overnight".

SOURCE: www.theguardian.com