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5 strategies to avoid costly rework in construction projects

[Article originally appeared in www.constructconnect.com]

By Amy Chouvin

"Rework" it's a dreaded word in the construction industry. No one wants to see time and money wasted fixing mistakes that could have been prevented. According to a McKinsey report, rework can account for a staggering 30% of construction project costs.

So, how can you minimize rework and keep your projects running smoothly? Here are 5 key strategies:

1. Plan like a pro: Invest in detailed pre-construction planning

A solid foundation is essential for any successful project. This means investing time and resources in comprehensive pre-construction planning. This includes:

- Clearly defined scope: Ensure everyone involved has a clear understanding of the project goals, specifications, and deliverables.
- **Detailed drawings and specifications:** Leave no room for misinterpretation with accurate and up-to-date drawings and specifications.
- **Open communication channels:** Establish clear communication protocols to ensure everyone is on the same page and any questions or concerns are addressed promptly.

By taking the time to plan thoroughly upfront, you can identify and address potential issues before they become costly rework problems on-site.



2. Embrace collaboration with digital tools

Gone are the days of paper-based plans and fragmented communication. Construction management software like Fieldwire or BIM (Building Information Modeling) can revolutionize collaboration and information sharing. These tools offer:

- Centralized document management: Store all project plans, drawings, specifications, and communication in one easily accessible location.
- **Real-time collaboration:** Ensure everyone has access to the latest information, reducing the risk of mistakes due to outdated documents.
- **Improved communication:** Facilitate seamless communication between teams,

clients, and subcontractors, minimizing misunderstandings and delays.

By embracing digital collaboration tools, you can streamline workflows, improve communication, and ultimately avoid rework caused by siloed information and outdated documents.

3. Prioritise quality control throughout the project lifecycle

Quality control isn't just an afterthought – it's a continuous process that should be integrated throughout every stage of construction. This includes:

• **Regular inspections:** Conduct regular inspections to identify and address any potential issues early on, before they snowball into larger problems later.

- **Skilled workforce:** Invest in a skilled and experienced workforce who understand quality standards and take pride in their work.
- **Clear quality control processes:** Establish clear and documented quality control procedures to ensure consistency and compliance with project specifications.

By prioritising quality control, you can catch and fix mistakes early, preventing costly rework down the line.

4. Leverage prefabrication for improved accuracy

Prefabrication is a construction technique where elements of a building are manufactured off-site in a controlled environment. This offers several advantages:

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California officials won't say why it would cost 'billions' to protect prison workers from heat

[Article originally appeared in https://calmatters.org]

By Jeanne Kuang, CalMatters

More than a month after Gov. Gavin Newsom's administration delayed a workplace indoor heat rule because it might be too expensive for the state prison system, state officials are refusing to release records showing how they made that decision.

The Department of Finance said today it's withholding records of any cost estimates it has conducted over the proposed workplace rule or received from other state agencies, plus communications between prison and finance officials over those costs.

CalMatters requested those documents under the state's public records law on March 22 after the rule was delayed.

In response, the department said withholding the records is justified under "the Governor's and Director of Finance's deliberative process privilege."

In late March, CalMatters also requested similar records from the Department of Cor-

rections and Rehabilitation. Late today, the department also denied the request, citing the same exemption.

The long-awaited indoor heat rule, developed for years by California's workplace safety agency to try to address the risks of heat illness in indoor workplaces such as warehouses, was widely expected to be approved in March at a meeting of the Occupational Safety and Health Standards Board.

But in an eleventh-hour move the evening before the scheduled vote, the finance department withdrew a required fiscal sign-off after apparently learning that the rule could cost state prisons billions more dollars than the workplace agencies had estimated.

The move infuriated worker advocates, and prompted business advocates to point out no private employers were getting a break from the rule.

Last month, Cal/OSHA's deputy chief of health Eric Berg announced the agency plans to revise the proposal to exempt state prisons and local jails so that it can get an official approval before the Standards Board and the rules can go into

effect sometime this summer. That process could take several weeks.

The agency also plans to later propose a separate indoor heat rule for workers in correctional facilities.

The prison cost concerns delayed a proposed rule that was already arriving five years past a deadline set by lawmakers, in part because of a lengthy economic impact analysis required by state law. But in public statements in March, neither Finance spokesperson H.D. Palmer nor Corrections spokesperson Albert Lundeen provided a breakdown of estimated costs.

The "deliberative process privilege" is a broad exemption in California public records law allowing officials to withhold records showing how they make decisions.

In the case of the indoor heat rule, the finance department told CalMatters it plans to withhold records "as it relates to decision-making and discussions about litigation, potential budget impacts, the budget, and policy development because the public interest served by not disclosing these records outweighs the public interest served by their disclosure." The decision was made by senior staff counsel Donna Ferebee.

Current projects to install or upgrade cooling systems at state prisons have come with price tags in the tens or even hundreds of millions of dollars. But it's still unclear exactly what upgrades Corrections officials believe they must make to comply with a rule that protects prison workers from the heat.

Lorena Gonzalez, head of the California Labor Federation, said she hopes some of those details will become clear when the rule for correctional workers is proposed and undergoes its own public hearings and fiscal analysis.

"We do believe there has to be transparency; it was always unclear about what the cost was," she told CalMatters today. "We believe the rulemaking process should begin on that ... But we are insistent that rules are in place for everybody except Corrections by summer."

SOURCE:

https://calmatters.org/politics/capitol/2024/05/california-public-records-indoorheat-cost-prisons/

CALIFORNIA SUB-BID REQUEST ADS





McCarthy Building Companies 515 S. Flower St | Ste. 3600 | Los Angeles, CA 90071 | 213-655-1100 | License #411173

Subcontractor Solicitation of Interest Kenneth Hahn Hall of Administration – Base Isolation Seismic Retrofit Los Angeles, CA

McCarthy Building Companies, Inc., working as the Construction Manager at Risk in conjunction with the Department of Public Works for Los Angeles County, is soliciting interest from qualified subcontractors to participate in the bidding for award phase of the project

Project description: The Hall of Administration Base Isolation Seismic retrofit project consists of the installation of seismic isolators under the foundation of the existing building. Hydraulic jacks and temporary load-bearing shoring will be installed in phases to support and transfer the gravity loads from the existing columns/walls to new support foundations. Seismic strengthening of the superstructure using new concrete shear walls is required at select interior locations. These interior locations will require demolition and reconstruction. Select restrooms will receive ADA upgrades and elevators are to be modernized. A most gap will be constructed around the building perimeter using earth-retention walls. Shoring and earthwork operations will require demolition and reconstruction of the existing site around the building. Underground utilities will be modified or replaced. This project will be performed at an active site where the building is occupied during typical work hours. Provisions of various sorts will be accommodated so as not to disrupt the occupants of the building

Project Location: 500 West Temple Street, Los Angeles, CA 90012

Work categories include: Best Value Selection for Site Utilities and Design-Build Temporary Site Utilities. Best Value Selection for Site Fire Water Design & Design Build Fire Protection

Key Subcontractor Qualifications: Design-Build experience for: Temporary Site Utilities, and Fire Protection

Key Dates: Request for Proposals (RFP) issued to Subcontractors – 05/1/24 via Building Connected website; Proposals Due to McCarthy Building Companies – 5/23/24.

This project requires:

Prevailing Wages Community Workforce Agreement (CWA)

Contractor Controlled Insurance Program (CCIP)

A 100% Performance and Payment Bond from an admitted surety upon award of contract for all trades.

McCarthy is an equal opportunity employer and encourages qualified Small Business and Minority Business participation All qualified applicants will receive consideration for employment without regard to race, religion, sex, or national origin

Please contact us if you have any questions regarding project specifics

McCarthy Building Co, Inc. Lando Madrigal - Sr. Preconstruction Manager E-Mail: <u>Imadrigal@mccarthy.com</u> WE ARE AN EQUAL OPPORTUNITY 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.

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

S Silver Creek

We are requesting bid quotations from all **DVBE** Subcontractors for the following: **Ballico Cressey School District Cressey Elementary School** 9921 Crocker Ave, Cressey, CA 95312 Modular Package New TK-Kindergarten Modular Classroom Building Project No. 23-12894

BID DATE: May 29, 2024 before 11:00 am PLEASE EMAIL US YOUR BID PROPOSAL

NO LATER THAN MAY 16, 2024. THANK YOU! Silver Creek Modular. LLC 2830 Barrett Avenue, Perris, CA 92571 Attn: Business Development Manager: Joe Nguyen Email: jnguyen@silvercreekmodular.com Phone: (951) 943-5393 ext 103 Fax: (951) 943-2211



American Modular Systems, Inc.

We are requesting bid quotations from all

Subcontractors and Suppliers and DVBE Subcontractor/Supplier for the following:

Guadalupe Union School District

EARLY CHILDHOOD EDUCATION CENTER

MODULAR ADMINISTRATION BUILDING PROJECT

BID DATE: May 16, 2024 at 3pm

PLEASE EMAIL US YOUR BID PROPOSAL

NO LATER THAN May 10th at NOON.

THANK YOU!

American Modular Systems, Inc.

787 Spreckels Avenue, Manteca, CA 95336

Attn: Corey Ptaszynski

Email: corey.p@americanmodular.com

Phone: (209) 825-1921

5225 Hellyer Avenue, Suite #220, San Jose, CA 95138 Phone (408) 574-1400 • Fax (408) 365-9548 Contact: David Kennedy Email: estimating@graniterock.com

REQUESTING SUB-QUOTES FROM QUALIFIED MBE, WBE, SBE, DBE & Labor Surplus Area SUBCONTRACTORS/SUPPLIERS/TRUCKERS FOR:

Mt. Veeder Rd. MPM 3.99, RDS 23-23 **Owner: Napa County** Location: Napa Engineers' Estimate: \$816,000

BID DATE: May 16, 2024 @ 11:30 AM

Items of work include but are not limited to: Clearing & Grubbing, Traffic Control, Erosion & Sediment Control, Sawcut, Striping, Adjust Utilities, Rock Slope Protection & Fabric, CIDH Concrete Piling, Supply Structural Concrete. Rebar and Trucking.

Granite Rock Company 'Graniterock' is signatory to Operating Engineers, Laborers, Teamsters, Carpenters and Cement Masons unions. 100% performance and payment bonds will be required from a qualified surety company for the full amount of the subcontract price. Bonding assistance is available. Graniterock will pay bond premium up to 1.5%. In addition to bonding assistance, subcontractors are encouraged to contact Graniterock Estimating with questions regarding obtaining lines of credit, insurance, equipment, materials and/or supplies, or with any questions you may have. Subcontractors must possess a current contractor's license. DIR number, insurance and worker's compensation coverage. Subcontractors will be required to enter into our standard contract. Graniterock intends to work cooperatively with all qualified firms seeking work on this project.

We are an Equal Opportunity Employer



5225 Hellyer Avenue, Suite #220, San Jose, CA 95138 Phone (408) 574-1400 • Fax (408) 365-9548 Contact: Sheree Schoenherr Email: estimating@graniterock.com

REQUESTING SUB-QUOTES FROM QUALIFIED SBE & DVBE SUBCONTRACTORS/SUPPLIERS/TRUCKERS FOR: Construction on State Highway in Santa Clara County in San Jose and Mountain View from Guadalupe River Bridge to North Shoreline Boulevard Overcrossing

Contract Number: 04-2Y5504 **Owner: Caltrans** Location: San Jose, CA, HWY 101 Engineers' Estimate: \$1,920,000

BID DATE: May 14, 2024 @ 2:00 PM

Items of work include but are not limited to: Lead Compliance Plan, Construction Area Signs, Traffic Control, Stationary Impact Attenuator Vehicle, PCMS, Water Pollution Control Program, Temporary Drainage Inlet Protection, Street Sweeping, Noise Monitoring, Tack Coat, Pavement Markers, Striping and Trucking.

Granite Rock Company 'Graniterock' is signatory to Operating Engineers, Laborers, Teamsters, Carpenters and Cement Masons unions. 100% performance and payment bonds will be required from a qualified surety company for the full amount of the subcontract price. Bonding assistance is available. Graniterock will pay bond premium up to 1.5%. In addition to bonding assistance, subcontractors are encouraged to contact Graniterock Estimating with questions regarding obtaining lines of credit, insurance, equipment, materials and/or supplies, or with any questions you may have. Subcontractors must possess a current contractor's license, DIR number, insurance and worker's compensation coverage. Subcontractors will be required to enter into our standard contract. Graniterock intends to work cooperatively with all qualified firms seeking work on this project. We are an Equal Opportunity Employer

Contact Info:



CALIFORNIA SUB-BID REQUEST ADS

MOUNTAIN Mountain Cascade Inc. CASCADE 555 Exchange Court, Livermore, CA 94550 (925) 373-8370, Fax (925) 373-0940 INC. Project: Roadway, Water, and Sewer Infrastructure Improvement Project Phase II EDA No. 07-79-07487 **Owner: County of Mariposa Public Works** Revised Bid Date: May 14, 2024 @ 2:00 P.M. DBE Goal: 19.8% WBE Goal: 6.9% Engineers Estimate: \$3,400,000 We are requesting quotes from all qualified DBE and WBE Subcontractors and Suppliers but not limited to: FABRICS AND OILS, PIPE SUPPLIERS, CONSTRUCTION AREA SIGNS, TRAFFIC CONTROL, COLD PLANE, AGGRE-GATE BASE, AC DIKES, GRINDING, STRUCTURAL CONCRETE, SOUNDWALL- MASONRY PRECAST, REINFORCING STEEL- REBAR, STELL STRUCTURE, SIGN STRUCTURE, SIGNS ROADSIDE, CONCRETE CURB & SIDEWALK-MISC, FENCING, METAL BEAM GUARD RAILING, METAL RAILING, THERMOPLASTIC TRAFFIC STRIPE & MARKING, PAINTED TRAFFIC STRIPE & MARKING, PAVEMENT MARKING, SIGNAL AND LIGHTING, SURVEYOR, SWPP PLAN ONLY, WATER TRUCK, SWEEPER, TRUCKER, GEOTECH Project Description: The work to be done consists of, in general, constructing storm drain, curb & gutter, sidewalk, grind & overlay pavement, bridge deck rehabilitation, retaining walls, parking lot improvements, and other miscellaneous items as specified in the plans and specifications. Project information, including plans & specifications can be found by contacting: estimating@mountaincascade.com Please feel free to contact Mountain Cascade, Inc. at 925.373.8370 with any questions concerning bonding, insurance, lines of credit, and job overview. We look forward to your response Mountain Cascade Inc. is an Equal Opportunity Employer California License # 422496 This is Part of a Good Faith Outreach. Your response is greatly appreciated **MOUNTAIN** Mountain Cascade Inc. CASCADE 555 Exchange Court, Livermore, CA 94550 (925) 373-8370, Fax (925) 373-0940 INC. Project: Construction on State Highway in San Joaquin County at Chrisman Road Overcrossing Contract No. 10-1L1804 **Owner: Caltrans** Bid Date: May 7th, 2024 @2:00 PM ELECTRONIC BID DVBE Goal: 3% SBE Goal: 5 % We are requesting quotes from all qualified DVBE/SBE Subcontractors and Suppliers but not limited to: FABRIC AND OILS, CONSTRUCTION AREA SIGNS, TRAFFIC CONTROLS, COLD PLANE, CLEAR & GRUB, HYDRO SEEDING, AC DIKES, GRINDING, SIGNS ROADSIDE, CONCRETE CURB & SIDEWALK-MISC, METAL BEAM GUARD RAILING, METAL RAILING, THERMOPLASTIC TRAFFIC STRIPE & MARKING, PAINTED TRAFFIC STRIPE & MARKING, PAVEMENT MARKING, SIGNAL AND LIGHTING, MESSAGE SIGNS- LIGHTING & SIGN ILLUMINATION, DETECTOR, RAMP METERING SYSTEM, SWPP PLANNING, WATER TRUCK, SWEEPER, TRUCKER, HAZARDOUS SUBSTANCE REMOVAL Project Description: The project includes, but not limited to, Widening shoulders Engineers Estimate: \$1,010,000 Plans and specs can be obtained at: http://ppmoe.dot.ca.gov/des/oe/weekly-ads Or contact: estimating@mountaincascade.com Please feel free to contact Mountain Cascade, Inc. at 925.373.8370 with any questions concerning bonding, insurance, lines of credit, and job overview. We look forward to your response Mountain Cascade Inc. is an Equal Opportunity Employer California License # 422496 This is Part of a Good Faith Outreach. Your response is greatly appreciated **MOUNTAIN** Mountain Cascade Inc. CASCADE 555 Exchange Court, Livermore, CA 94550 (925) 373-8370, Fax (925) 373-0940 INC. Project: Construction on State Highway in San Joaquin County in and near Tracy at Various Locations Contract No. 10-1Q7504 Owner: Caltrans Bid Date: May 8th, 2024 @2:00 PM ELECTRONIC BID DVBE Goal: 3% SBE Goal: 5 % We are requesting quotes from all qualified DVBE/SBE Subcontractors and Suppliers but not limited to: FABRIC AND OLS, CONSTRUCTION AREA SIGNS, TRAFFIC CONTROL, COLD PLANE, SLURRY SEAL, AC DIKES, GRINDING, SIGNS ROADSIDE, THERMOPLASTIC TRAFFIC STRIPE AND MARKING, PAINTED TRAFFIC STRIPE AND MARKING, PAVEMENT MARKING, SIGNAL AND LIGHTING, MESSAGES SIGNS, LIGHTING & SIGN ILLUMINATION, DETECTOR, RAMP METERING SYSTEM, NOISE MONITROING Project Description: The project includes, but not limited to, Repair failed area, polymer modified asphalt binder (PMAB) chip seal Engineers Estimate: \$2.320.000 Plans and specs can be obtained at: http://ppmoe.dot.ca.gov/des/oe/weekly-ads Or contact: estimating@mountaincascade.com Please feel free to contact Mountain Cascade, Inc. at 925.373.8370 with any questions concerning bonding, insurance, lines of credit, and job overview. We look forward to your response Mountain Cascade Inc. is an Equal Opportunity Employer California License # 422496 This is Part of a Good Faith Outreach. Your response is greatly appreciated



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5 strategies to avoid costly rework in construction projects

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- **Reduced errors:** Controlled environments minimise the risk of errors that can occur on-site due to weather or human factors.
- **Improved quality:** Prefabricated components can be built to higher quality standards due to factory-controlled processes.
- **Faster installation:** Prefabricated elements can be quickly assembled on-site, leading to faster project completion times.

By incorporating prefabrication whenever possible, you can improve the accuracy and quality of construction, reducing the need for rework.

5. Learn from experience: Conduct post-project reviews

Every construction project offers valuable lessons learned. Don't let these insights go to waste! Conduct thorough post-construction reviews to identify:

- Areas for improvement: Analyze where mistakes occurred and what could have been done differently to avoid rework.
- **Communication gaps:** Identify any communication breakdowns that contributed to rework and develop strategies to improve communication for future projects.
- **Process inefficiencies:** Streamline your processes based on the lessons learned to prevent similar rework issues from happening again.

By taking the time to learn from past experiences, you can continuously improve your construction practices and minimise rework in future projects.

Meeting deadlines and staying on budget

Rework may seem like an inevitable part of construction, but it doesn't have to be. By implementing these 5 strategies, you can significantly reduce rework and keep your projects running smoothly, on time, and within budget. Remember, a proactive approach is key – the more effort you invest in planning, communication, and quality control upfront, the less rework you'll encounter down the road.

SOURCE: https://www.fieldwire.com/blog/ avoid-rework-construction/

SBE TODAY E-NEWSLETTER 5

CERTIFICATION WORKSHOPS DBE/ACDBE 2-DAY SERIES

DAY 1: VIRTUAL Zoom Meeting

June 12, 2024 | 1:00 PM - 3:00 PM (PST)

Overview of DBE/ACDBE Program & Updates | Identify NAICS Codes | Online Certification Portal

Register: <u>https://CUCPDBECertificationvirtual2024.eventbrite.com</u>



DAY 2: IN-PERSON WORKSHOPS

June 13, 2024 | 10:30 AM - 2:00 PM (PST)

NORTHERN CALIFORNIA

⊘ Santa Clara Valley Transportation Authority (VTA)

Auditorium, Building A 3331 North First Street San Jose, CA, 95134



Register: <u>https://CUCPDBECertificationWorkshop2024.eventbrite.com</u>

SOUTHERN CALIFORNIA 9:00 AM - 11:30 AM

Los Angeles County Metropolitan Transportation Authority (METRO) 1 Gateway Plaza Los Angeles, CA 90012



BENEFITS:

- Technical Assistance with DBE/ACDBE certifiers and Resource Partners
- Public Agency Networking
- DBE and Small Business Enterprise Supportive Services

Register: https://www.eventbrite.com/e/metroconnect-certification-workshop-in-person-only-tickets-866916710217

U.S. Small Business Administration

APEX ACCELERATOR



Questions or translation assistance, contact Artemisé Davenport, adavenport@goldengate.org