

NEWS

INFO

BIDS



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Building Tunnels and Bridges Underwater

By Ari Perez, Quinnipiac University

When I was a kid, I discovered a Calvin and Hobbes comic strip that posed one of my own burning questions: How do they know the load limit on bridges? Calvin's dad (incorrectly) tells him, "They drive bigger and bigger trucks over it until it breaks. Then they weigh the last truck and rebuild the bridge."

Several decades later, I'm a geotechnical

engineer. That means that I work on any construction projects that involve soil. Now I know the real answers to things people wonder about infrastructure. Oftentimes, like Calvin's dad, they're thinking about things from the wrong direction. Engineers don't typically determine the load limit on a bridge; instead, they build the bridge to carry the load they're expecting. It's the same with another question I hear

from time to time: How do engineers build things underwater? They actually don't typically build things underwater—instead they build things that then end up underwater. Here's what I mean.

Building underground, beneath the water Sometimes, when you're building underwater, you're really building underground. It's not about

the water you see at the surface but rather what surrounds the actual structure you're building. If there's rock or soil all around what you're constructing, that's typically thought of as

underground construction—even if there's a layer of water above it and that's all you see from above. Underground construction usually uses powerful tunnel-boring machines to excavate soil directly.

This machine is often called a mole for a reason. Like the animal, it creates a tunnel similar to a burrow by excavating horizontally through the ground, removing the excavated material out behind it. Done with care, this method can successfully build a tunnel through the ground beneath a body of water that can then be lined and reinforced. Engineers used this method to build the

Chunnel, for instance, a railway tunnel beneath the English Channel that connects England and France. While modern machinery is quite advanced,

this method of construction started about two hundred years ago with the tunneling shield.



that provided a safe space from which workers could excavate. New temporary structures were built deeper and deeper as the tunnel grew. As the designs improved with experience, the shields Click to read more Small Business Exchange • Voice of Small, Emerging, Diversity-Owned Businesses Since 1984

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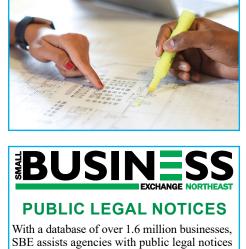
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SUBCONTRACTORS AND VENDORS Amtrak Design-Build Airo Facilities Sunnyside, New York **Amtrak Contract**

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IS SOLICITING COST PROPOSALS FROM NEW YORK STATE DBE

Bid Date: July 17, 2024 Description of project:

Sunnyside Yard Airo Intercity Trainset Facility Project (known as "Airo Project") which consists

metals, precast panels, wall panels, roofing, spray fireproofing, painting, waterproofing, precast parking garage, plumbing, HVAC, millwright work (industrial), fire suppression, electrical,

If you are interested in bidding on this project, please contact Skanska's Outreach Coordinator:

of new, and renovate existing, trainset maintenance facilities within Amtrak's Sunnyside Yard (SSY) to accommodate trainset activities for existing and new fleet equipment; and Crew Base Facility (CBF) with Parking Garage Project (known as "CBF Project") which consists of new facility to consolidate existing yard groups/departments located in trailers and other functions within SSY

and a new employee parking garage. Both projects shall include site improvements, pathways and roadway improvements, and storm water mitigation. Many bidding opportunities are available: utilities, masonry, structural steel, miscellaneous

Aislinn.Speranza@skanska.com • EOE/M/F/Vet/Disabled

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SUBCONTRACTORS AND VENDORS Design-Build Services for LIRR West Side Yard Flood Mitigation Measures

MTA Construction and Development Contract No. 6401

Bid Date: July 26, 2024 **Description of project:** Design, furnish, construct, and install concrete perimeter flood walls, seepage cut-off barriers

below the concrete flood walls, flood gates, deployable flood barriers, sump pumps, a tide gate chamber, drainage system improvements, workable aisles and a diesel generator, an automatic transfer switch, ancillary electrical equipment, and required communications.

This project will develop flood protection solutions for the West Side Yard in order to prevent and mitigate flooding of the LIRR Tunnels. The flood protection along the WSY perimeter will be accomplished via a combination of permanent flood walls and deployable flood barriers. Many bidding opportunities are available: deep foundations, minipiles, jetgrout, sheeting, rebar installation, concrete supply, site work, electrical work, painting, paving, curb and sidewalk,

site utilities. If you are interested in bidding on this project, please contact Skanska's Diversity and Outreach Coordinator: Aislinn.Speranza@skanska.com • EOE/M/F/Vet/Disabled

TUTOR PERINI CORPORATION, AN EEO EMPLOYER IS CURRENTLY SOLICITING COST PROPOSALS FROM QUALIFIED AND CERTIFIED DBE SUBCONTRACTORS, VENDORS, SERVICE PROVIDERS

NJ TRANSIT-Delco Lead, County Yard Improvements, Storage and Inspection Facility GC.02 Superstorm Sandy Recovery Program Project NJ TRANSIT IFB No. 0000004

Bid Date: August 8, 2024 Brief description of work: The Delco Lead and County Yard Expansion is a multifaceted project that would address the

operations, storage, and resiliency needs along the NEC and provide a safe haven for cars in the event of a major storm or flooding event. The project is the reconstruction of the existing Delco Lead track and the construction of adjacent track from County Yard to North Brunswick for the storage of NJ TRANSIT trains in the event of severe weather.

new electrified rail yard with five 2,200-foot-long storage and inspection tracks along with a 1,250-foot-long Service and Inspection facility building called County Yard ("Yard"). Invitation to Bid for DBE Participation 12% ALL QUOTATIONS ARE DUE BY CLOSE OF BUSINESS Thursday, July 25, 2024.

Administrative and proposal bid date August 8, 2024, time 2:00 pm. For further information

concerning subcontracting and/or purchasing opportunities, and to register as a subcontractor or

vendor, please respond to solicitations@tutorperini.com or contact Arlene McBayne at (914) 739-1908.

The project consists of 3.20 miles of rail and catenary construction in an area adjacent to the Northeast Corridor called the Delco Lead ("Delco") and another 1.27 miles containing a

Come and join our team!

lutor Perin TUTOR PERINI CORPORATION, AN EEO EMPLOYER

MBE, WBE, SDVOB, AND ALL LBE SUBCONTRACTORS, VENDORS, SERVICE PROVIDERS AirTrain Newark Replacement Program—Guideway and Stations Project in the City of Newark, New Jersey PANYNJ RFP No. 6000001763 Bid Date: August 9, 2024 Brief description of work:

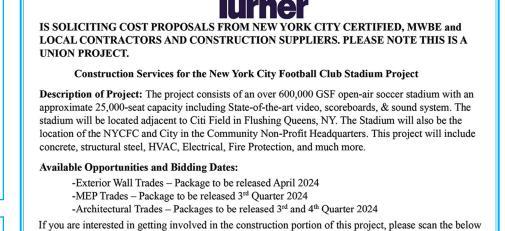
IS CURRENTLY SOLICITING COST PROPOSALS FROM QUALIFIED AND CERTIFIED

The New AirTrain will replace the existing AirTrain, which opened in 1996, has outlived its useful life, and does not currently provide customers with the modern customer service amenities and service reliability expected of a world-class automated people mover (APM) system. The

and from the Airport. The New AirTrain will be designed to maximize customer convenience with seamless connections to other forms of transportation and provide modern amenities in AirTrain stations and in vehicles (e.g., high-speed Wi-Fi, count-down clocks, and real-time flight

New AirTrain will include three new stations, and connect to the new modern Terminal A, the future Terminal Two (currently Terminal B), the Airport's new ConRAC facility, and the Northeast Corridor Rail Link Station, linking AirTrain customers to regional rail and light rail networks, and thereby encouraging customers and Airport employees to use public transit to

information) to enhance the customer's end-to-end journey. Invitation to Bid for M/W/SDVOB/LBE Firms: MBE 20%, WBE 10%, SDVOB 3%, and LBE 10% ALL QUOTATIONS ARE DUE BY CLOSE OF BUSINESS Friday, August 2, 2024. Administrative and technical proposal bid date August 9, 2024. For further information concerning subcontracting and/or purchasing opportunities, and to register as a subcontractor or vendor, please respond to solicitations@tutorperini.com or contact Arlene McBayne at (914) 739-1908. Come and join our team! New York City Football Club Stadium Project



York City Football Club Stadium Project, please · Large volume contractor Prior experience handling packages of scan the QR Code and fill this size and complexity out the form. Sub-Tier Lower volume contractor · Contractor looking to perform work under a prime contractor

QR code and fill out the attached form. All questions should be directed to NYCFC@TCCO.COM

PROJECT INTEREST

If you have any interest in working on the New



Woman-Owned Small Business (WOSB) 8(a) Orientation and SAM Registration Webinar program, which helps eligible small businesses Wednesday, July 17, 2024, 10:30 am-11:30 am to qualify for federal contracting opportunities. The monthly sessions will include an overview Main Sponsor(s): US Small Business Administration of the self-certification process, as well as a Contact: SBA Illinois District Office, 312-353-4528, discussion of the NAICS codes that qualify as

Illinois District Office for a virtual workshop providing an overview of the 8(a) Business Development program, eligibility requirements, and program benefits. Also learn how to increase

through System for Award Management (SAM) registration, including information that you need for the registration process. SBA presenters will offer addional tips, address FAQs, give directions on where to get further assistance, and answer your other questions. To register for this free webinar, visit https://www.eventbrite.

Building the Future

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ets-518989961947 Federal Contracting: Woman-Owned Small **Business (WOSB) Program Webinar** Thursday, July 18, 2024, 10:00 am-11:00 am

Main Sponsor(s): US Small Business Administration Contact: https://www.eventbrite.com/e/welcometo-wosb-webinar-tickets-482397041537 Fee: Free; registration required

Selling to the Federal Government Webinar Thursday, July 25, 2024, 1:00 pm-4:00 pm Online Main Sponsor(s): US Small Business Administration Contact: George Tapia, 610-382-3086, george.tapia@sba.gov Fee: Free; registration required Did you know that the federal government is the largest purchaser of goods and services in the world? Interested in learning how your business can market your services or goods to the federal government? Register on line at https://www. eventbrite.com/e/how-to-sell-to-the-federalgovernment-tickets-21790713611 SBA helps to

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ensure small businesses get fair opportunities to share federal government prime contracts. Topics

will include: How to Register, Small Business Certifications, Finding Opportunities, Marketing Your Firm, Federal Supply Schedules, Getting Paid, Tips to Prepare Your Offer, How to Seek Additional Assistance. All training sessions are held via Microsoft Teams Meeting. Participants must ensure Microsoft Teams is functioning.

Welcome to the WOSB webinar series! Are

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