Replacement of Signal Substations Cos Cob and New Haven

Public Information Meeting

February 29, 2024

6:00 - 7:30 PM

Website: https://portal.ct.gov/DOTNHLPower301-520





Opening Remarks





Zoom Webinar Platform

- Meeting is live and recorded
- Close apps and programs / limit other streaming or downloads
- Get help with Zoom platform:
 - Use the Q + A at bottom of screen
 - Send email to lnagle@fhistudio.com
- Call into meeting:
 - Phone number: 1 (646) 931-3860 toll-free
 - Webinar ID: 846 3771 3338
 - Passcode: 594444
- Closed captions for English and several other languages available







How To Participate

- All attendees are muted during presentation
- Discussion will follow presentation
- Two ways to participate during discussion:
 - Raise your hand to speak
 - Type your comment or question through Zoom Q&A button

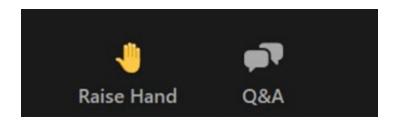






Verbal Comments

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- Will call on speakers in order hands are raised
- When called upon, the facilitator will invite that person to unmute
- State and spell full name when beginning
- Limit comments to 5 minutes



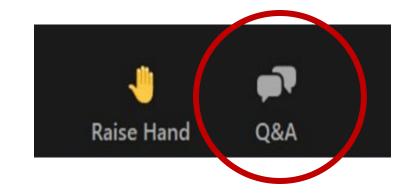






Written Q & A

- Click on and type questions or comments in Q & A box at bottom of screen
- Questions can be entered in Q & A throughout presentation and discussion session
- Study team may respond in writing in Q & A or verbally during discussion

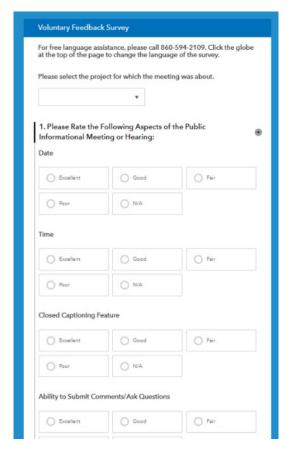






Title VI – Civil Rights Act of 1964

- No Person, on the basis of race, color or national origin, shall be excluded from participation or subject to discrimination in the development of this project
- Civil Rights flyer available at https://bit.ly/CTDOTCivilRights
- Post-meeting feedback survey at https://bit.ly/CTDOT-
 Feedback







Media Inquiries



Media representatives, please contact:

CTDOT Office of Communications

Email: CTDOTMedia@ct.gov





Meeting Agenda

- 1. Opening Remarks (FHI Studio)
- 2. General Project Overview (Garg Consulting Services, Inc. (Garg))
- 3. Cos Cob Substation Overview (Garg)
 - Site Design
 - Impacts
- 4. New Haven Substation Overview (Garg)
 - Site Design
 - Impacts
- 5. Q & A Session (Project Team)
- 6. Adjournment (FHI Studio)







Project Team



Yure Kuljis, PE CTDOT Assistant Rail Administrator



Nabil Chowdhoury CTDOT Project Engineer



Richard Jankovich
CTDOT Rail Administrator



Seamus Flannery, PE CTDOT Project Manager



Ashish Patel, PE Garg Project Manager



Rodney Bascom
Garg QA/QC Manager / Design Delivery



Eugene Chuang, PhD, PE Garg CEO and Principal-in-Charge



Marcy Miller, AICP FHI Studio, Engagement





General Project Overview





Overview

- Federally funded program to replace / upgrade railroad signal power infrastructure on Metro North Railroad, New Haven Main Line at Cos Cob and New Haven
- Both substations are past their useful life and require replacement
 - Outdated technology and equipment
 - Problem with operational reliability
 - Adverse impact on train service





Cos Cob Substation Overview





Existing Cos Cob Site







Garg Consulting

Services, Inc.

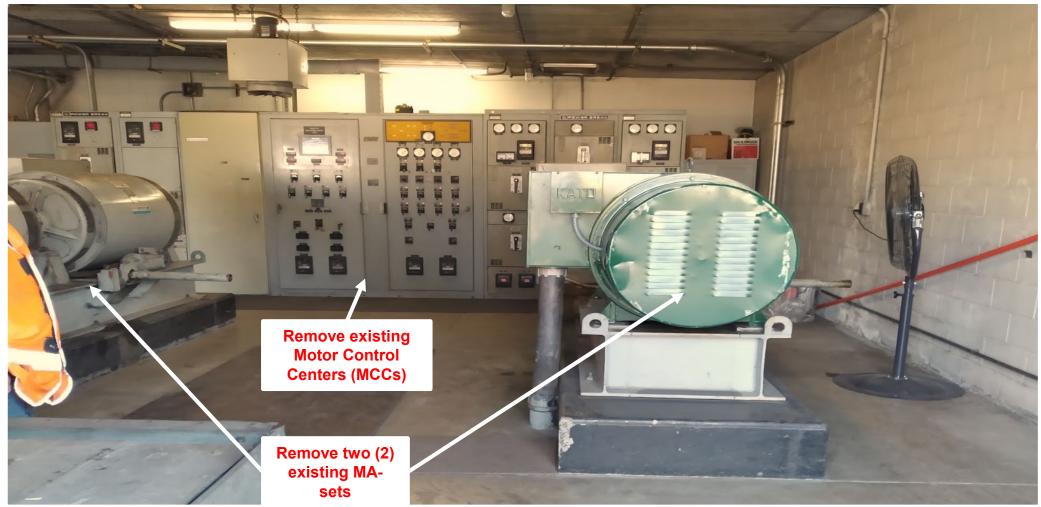
Cos Cob Substation Existing Conditions

- Has two motor-alternator sets:
 - One (1) feeder feeds 100 Hz signal power from Cos Cob to Woodlawn, NY
 - Second feeder feeds 100 Hz signal power from Cos Cob to New Haven, CT
 - Existing brick and mortar building shall remain in place





Electrical Apparatuses Upgrades







Cos Cob Proposed Site Design





Proposed Construction

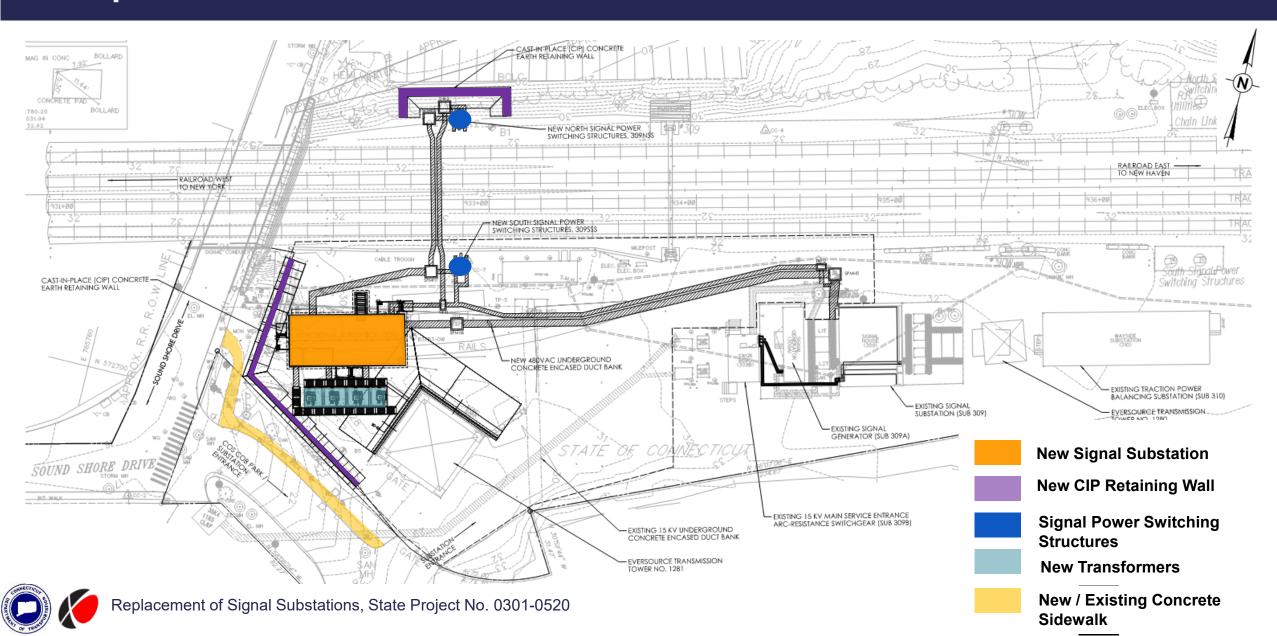
- Installation of cast-in-place (CIP) concrete retaining wall with decorative form liner along Sound Shore Dr and Cos Cob Park driveway
- Replacement of two (2) motor-alternator (MA) sets and house in new metal-clad signal substation enclosure
- Four (4) arc-resistant medium voltage switchgears for personnel safety
- Installation of four (4) step-up transformers
- Connection to existing main incoming power supply substation and signal power standby generator
- Final connection to existing railroad signal power system



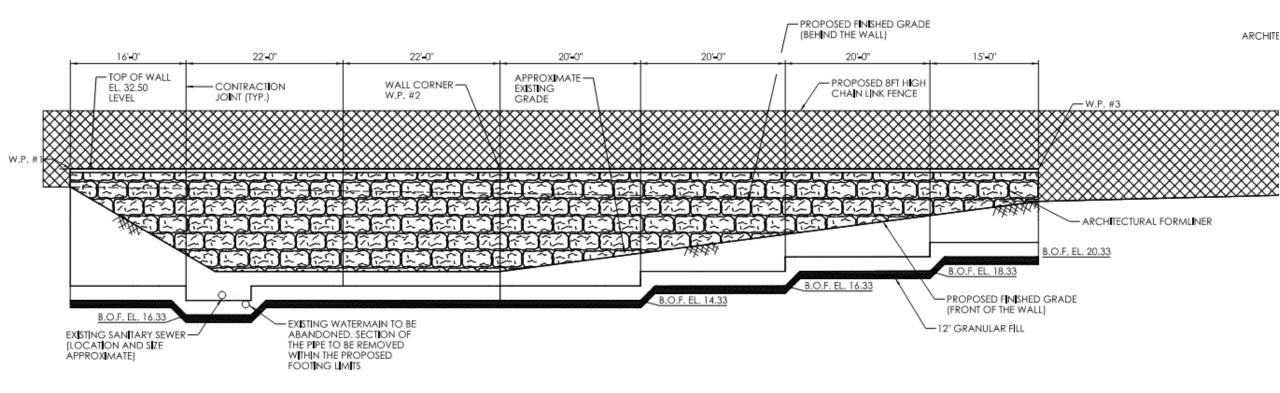




Proposed Cos Cob Construction Plan



Proposed CIP Retaining Wall Cross Section View

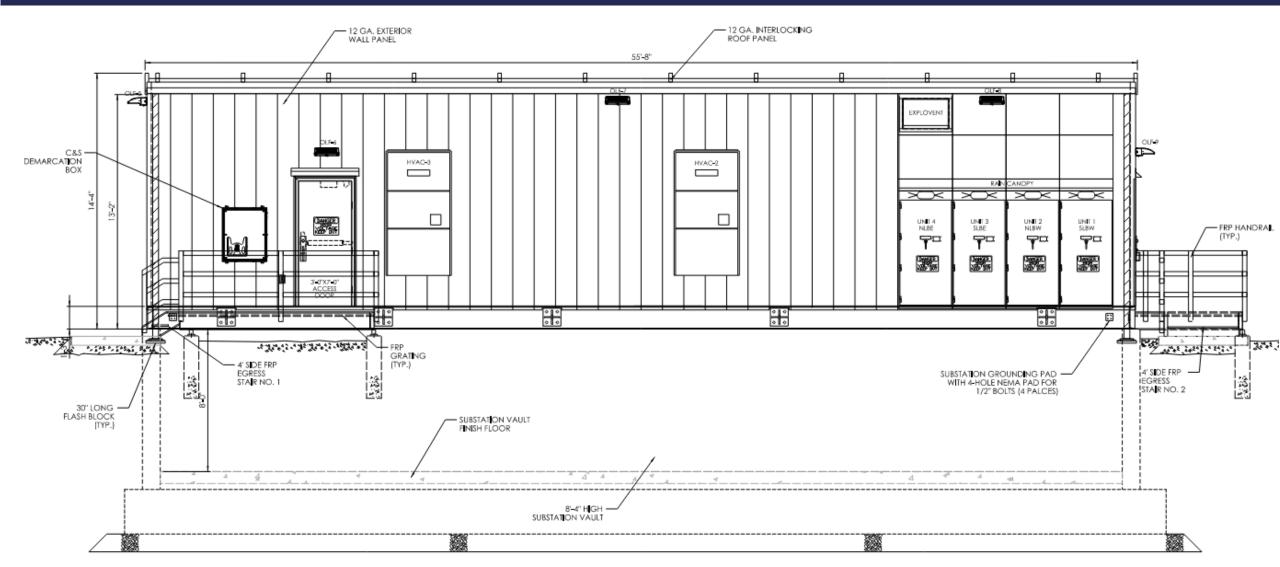








Proposed Signal Substation North Elevation View







Pre-fabricated Walk In Signal Substation Enclosure







Potential Impacts at Cos Cob



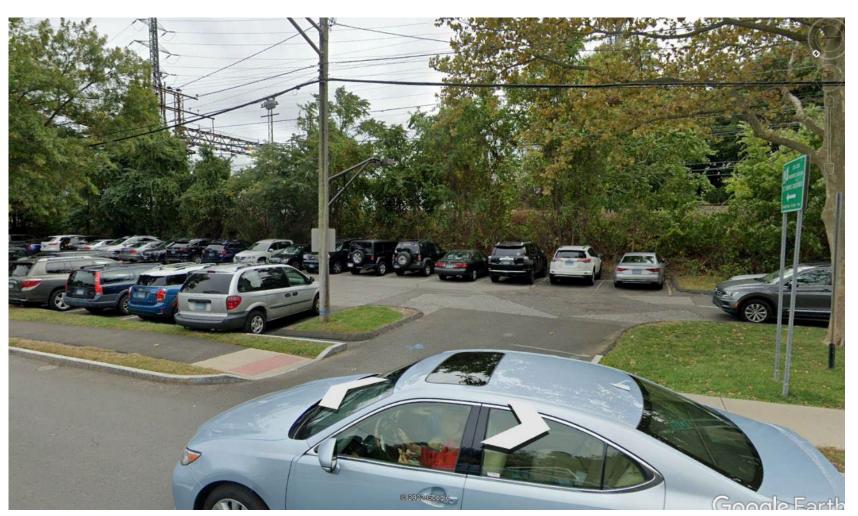




- Cast-in-place earth retaining wall construction
- Existing sidewalk leading to Cos Cob Park may be temporarily closed
 - Temporary protected path will be set up to provide access
- Existing sewer, water, and electricity to Cos Cob Park remains







- North cast-in-place earth retaining wall construction (60 days)
- Potential parking impacts adjacent to retaining wall (about 12 spaces)
- Work may occur at night to mitigate impacts
- Existing sewer, water,
 and electricity on road
 remains
 Garg Consulting

Services, Inc.





Replacement of Signal Substations, State Project No. 0301-0520



- Delivery of Cos Cob signal substation enclosure
- Partial Sound Shore Dr closure (120 days)
- Traffic police escort
- Crane set up on state property





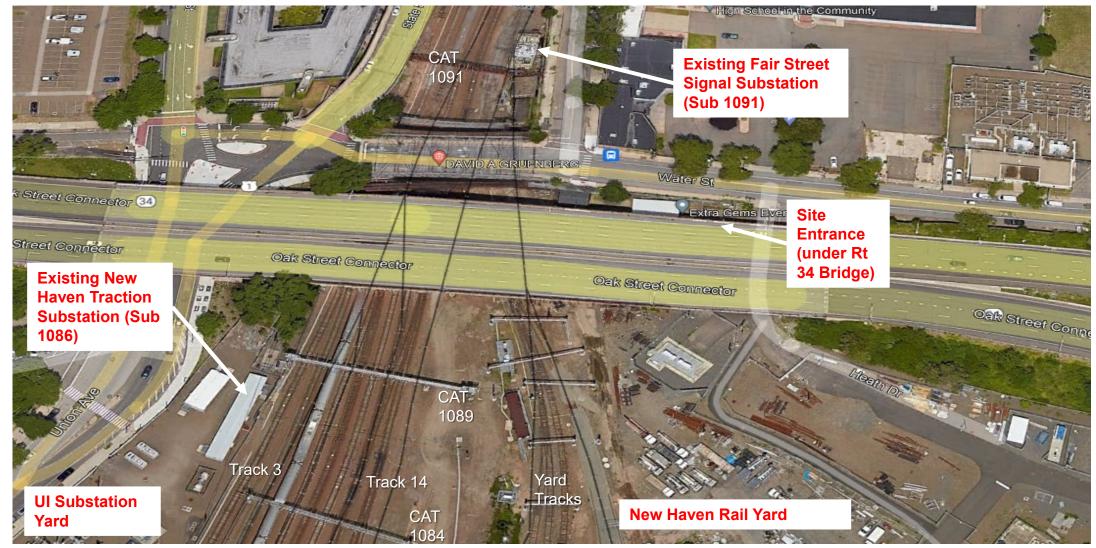
New Haven Substation Overview

- Existing Signal Substation Name: Fair St (Sub 1091)
- Proposed Signal Substation Name: Heath Dr (Sub 1087)





Existing New Haven Site







G Garg Consulting

Services, Inc.

New Haven Substation 1091 Existing Conditions

- One (1) motor-alternator set
 - One (1) feeder feeds 100 Hz signal power from New Haven to Amtrak Division Post, CT
 - Second feeder feeds 100 Hz signal power from New Haven to Cos Cob, CT
 - Existing brick and mortar building shall be demolished







New Haven Electrical Apparatuses Upgrades



Remove existing **Motor Control Centers (MCCs)**

Remove one (1) existing MA-set





New Haven Proposed Site Design





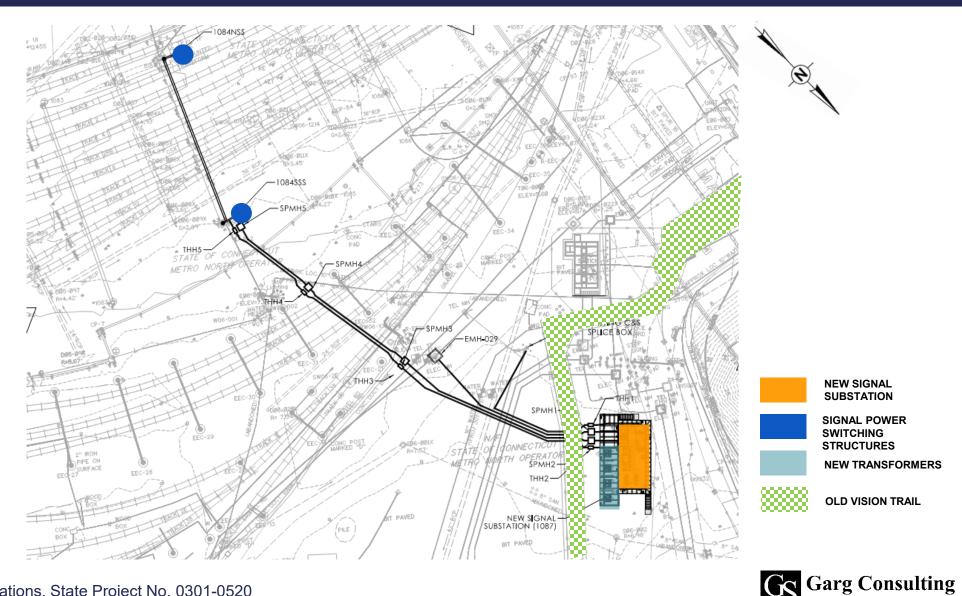
New Haven Proposed Construction

- Located adjacent to Heath Dr and Water St
- Within 100-year flood plain
- Installation of elevated platform to support new metal-clad signal substation enclosure and four (4) transformers
- Installation of two (2) motor-alternator sets
- Four (4) arc-resistant medium voltage switchgears for personnel safety
- Connection to existing Hallock substation 60Hz power feeders
- Final connection to existing railroad signal power system





Proposed New Haven Construction Plan

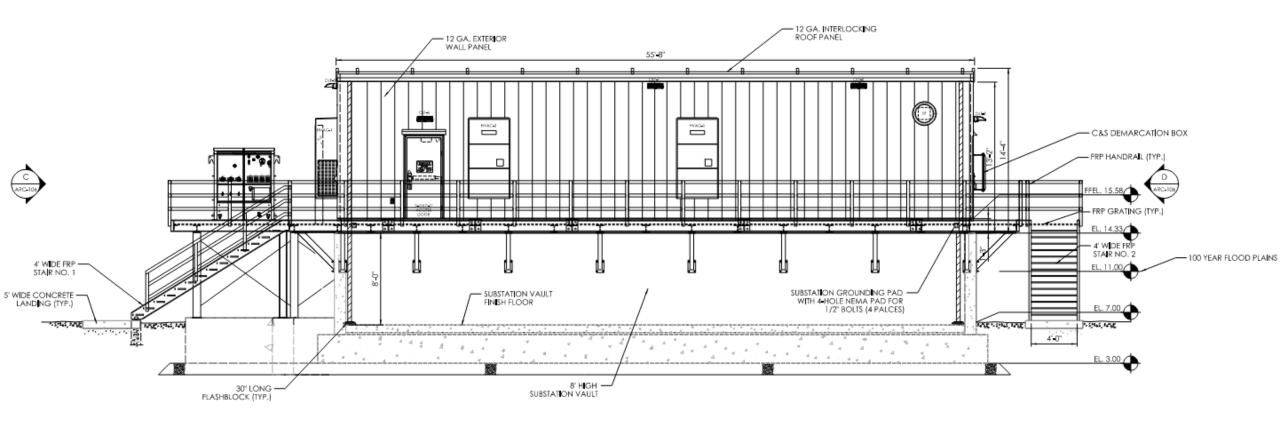


Services, Inc.





Proposed Signal Substation North Elevation View







Potential Impacts at New Haven







- Railroad traction power and signal power feeders are only run on one side of tracks
- Minor closures of Old Vision Trail through New Haven Rail Yard
- No redundancy







- Delivery of Heath Dr signal substation enclosure
- Partial Brewery St closure
- Traffic police escort
- Crane set up on state property





Proposed Schedule





Proposed Project Schedule

Issue Notice-to-Proceed to Contractor

April 2025

Start Construction

April 2025

Complete Construction *November 2028*

Complete Design

September 2024



Stay Involved

- How to provide feedback and ask questions:
 - Participate in today's Zoom meeting
 - Email CTDOT Project Manager Seamus Flannery at Seamus.Flannery@ct.gov
 - Call Seamus Flannery at (860) 594-2885
 - Fill out <u>post-meeting survey</u>
- Public comment period ends March 29, 2024
- Meeting presentation and recording will be posted at https://portal.ct.gov/DOTNHLPower301-520





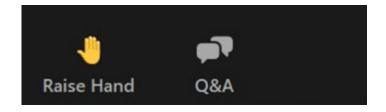
Q & A Session





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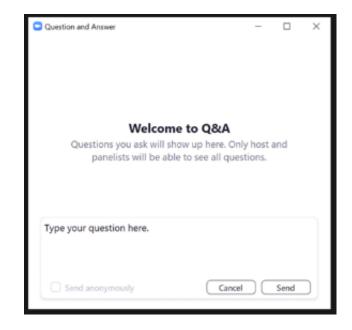




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Q & A Session





Thank you!



