

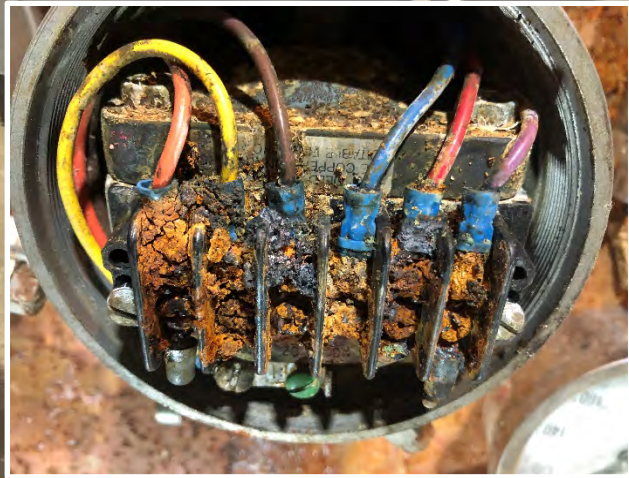


*Chelsea Creek Headworks Upgrade
Contract 7161 - Change Order 44*

January 20, 2021



Chelsea Creek Headworks: Grit Pit Flood Repairs





Chelsea Creek Headworks: PCB Chipping, Coring & Sawcutting





Chelsea Creek Headworks: Odor Control Fan Pad Handrails





Chelsea Creek Headworks: Fire Department Services





Chelsea Creek Headworks: Channel #4 Functional Test





Chelsea Creek Headworks: Site Overview





*Nut Island Headworks
Odor Control and HVAC System Improvements
Contract 7548 - Change Order 3*

January 20, 2021

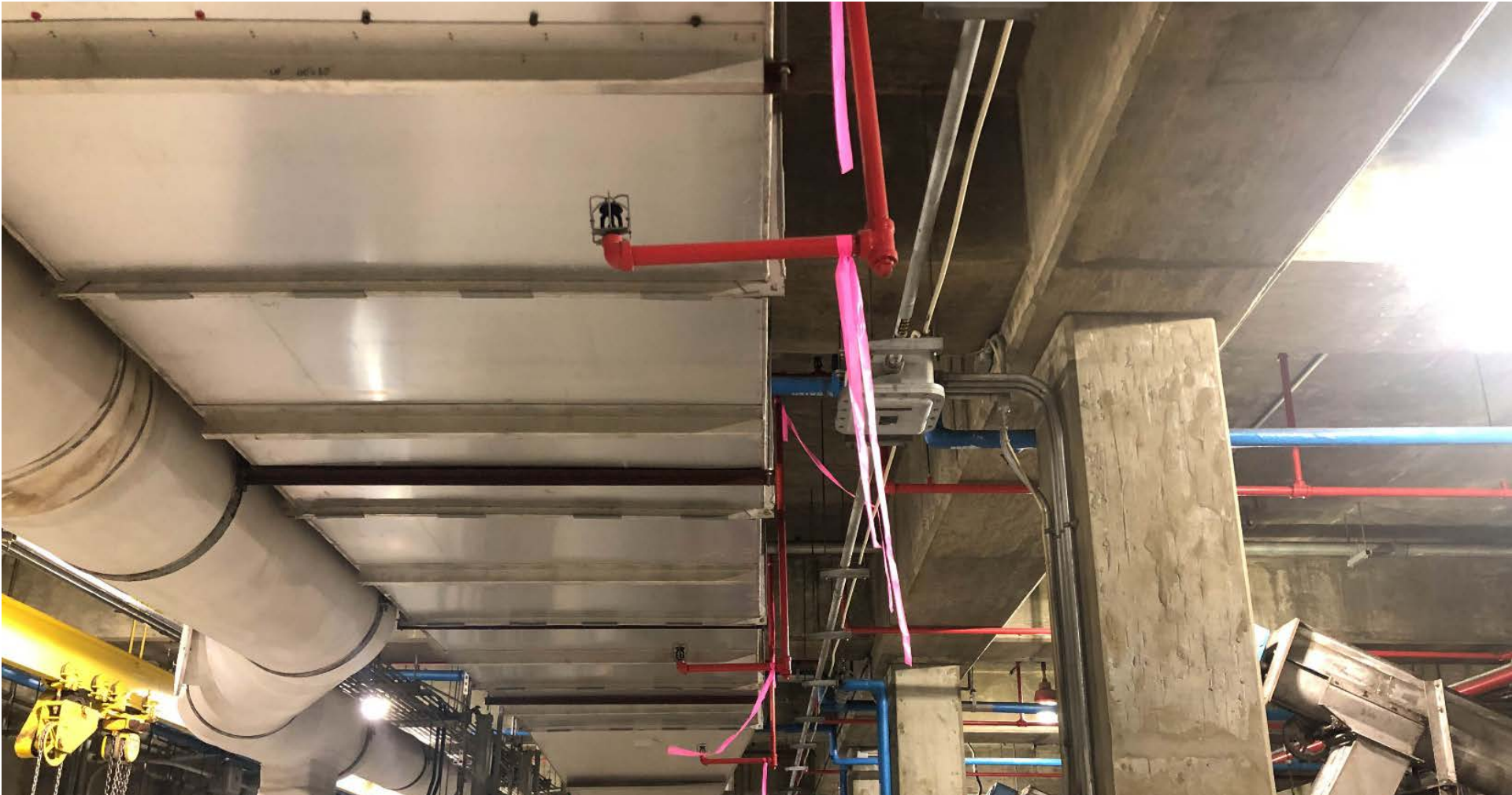


Nut Island Headworks: Relocated Sprinkler Lines



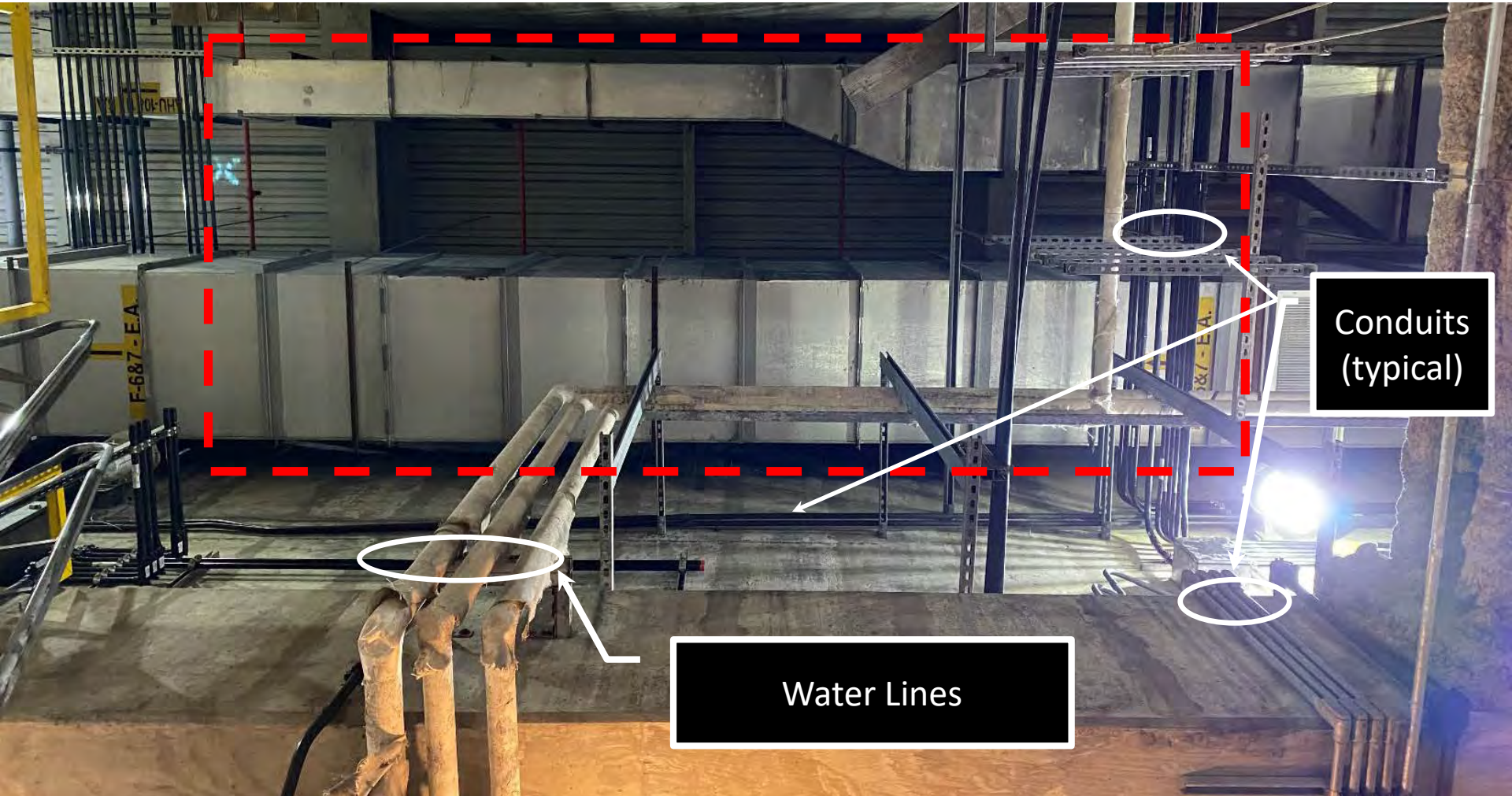


Nut Island Headworks: Sprinklers Under Ductwork





Nut Island Headworks: Stair 12 Utility Conflicts

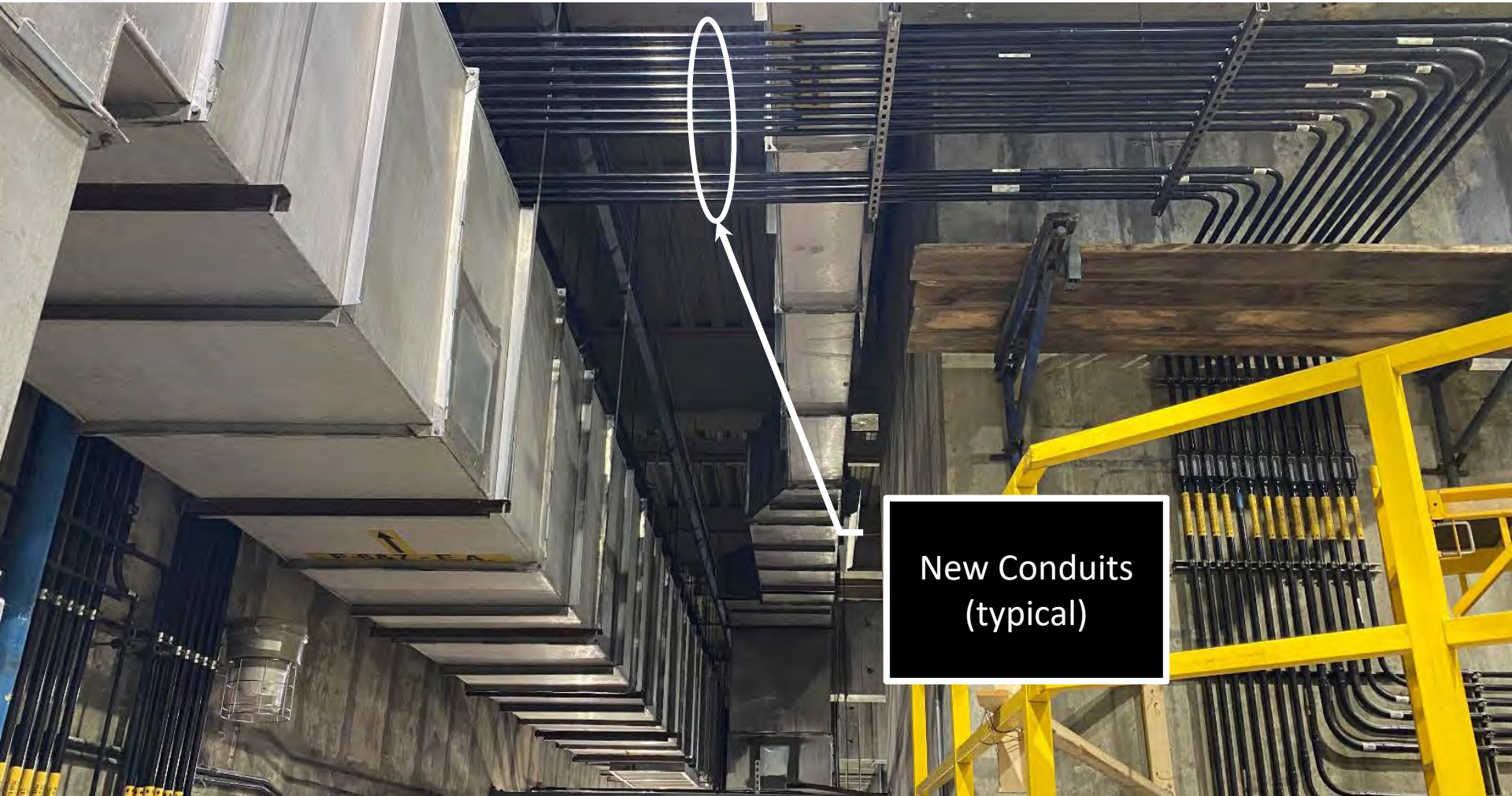


Water Lines

Conduits
(typical)



Nut Island Headworks: Conduits at Stair 12



New Conduits
(typical)

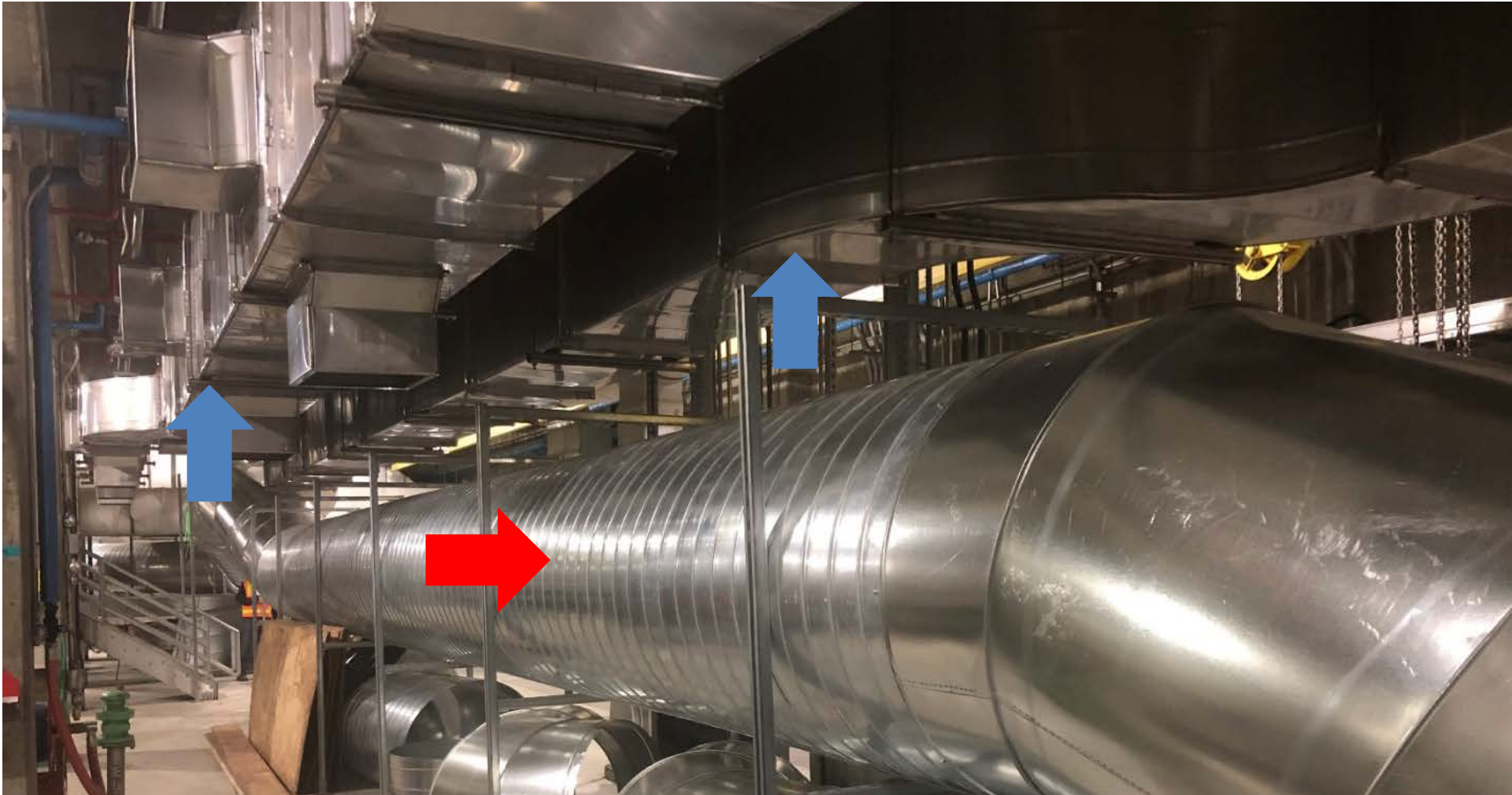


Nut Island Headworks: New Odor Control Ductwork





Nut Island Headworks: New & Temporary HVAC Ductwork





Nut Island Headworks: Emergency Spillway Gates





*Gravity Thickener Rehabilitation
Deer Island Treatment Plant
Contract 7428, Change Order 10*

January 20, 2021



Contract 7428: Gravity Thickener Upgrade

Original Award: \$19,633,050

- Notice to Proceed 5/11/2018
- Awarded to Walsh Construction Company

Project Includes:

- Comprehensive upgrades to all six gravity thickeners
- Replacement of 5 of 6 fiberglass-reinforced plastic (FRP) dome covers
- Draining and cleaning of Digested Sludge and Gas Storage Tank #1
- Change orders 1-9 (total \$134,652.23) approved under delegated authority





Change Order 10

Amount: \$262,041.00 for 3 Items

Time Extension: 98 days

- \$159,668.45 – Two 16-inch Insertion Valves and Valve Supports
- \$96,962.95 - Structural Reinforcement Above the Doorways at Gravity Thickeners 1 and 2
 - Extend Contract 98 days from 2/4/21 to 5/13/21
- \$5,409.60 - Additional Excavation at Gravity Thickener 5



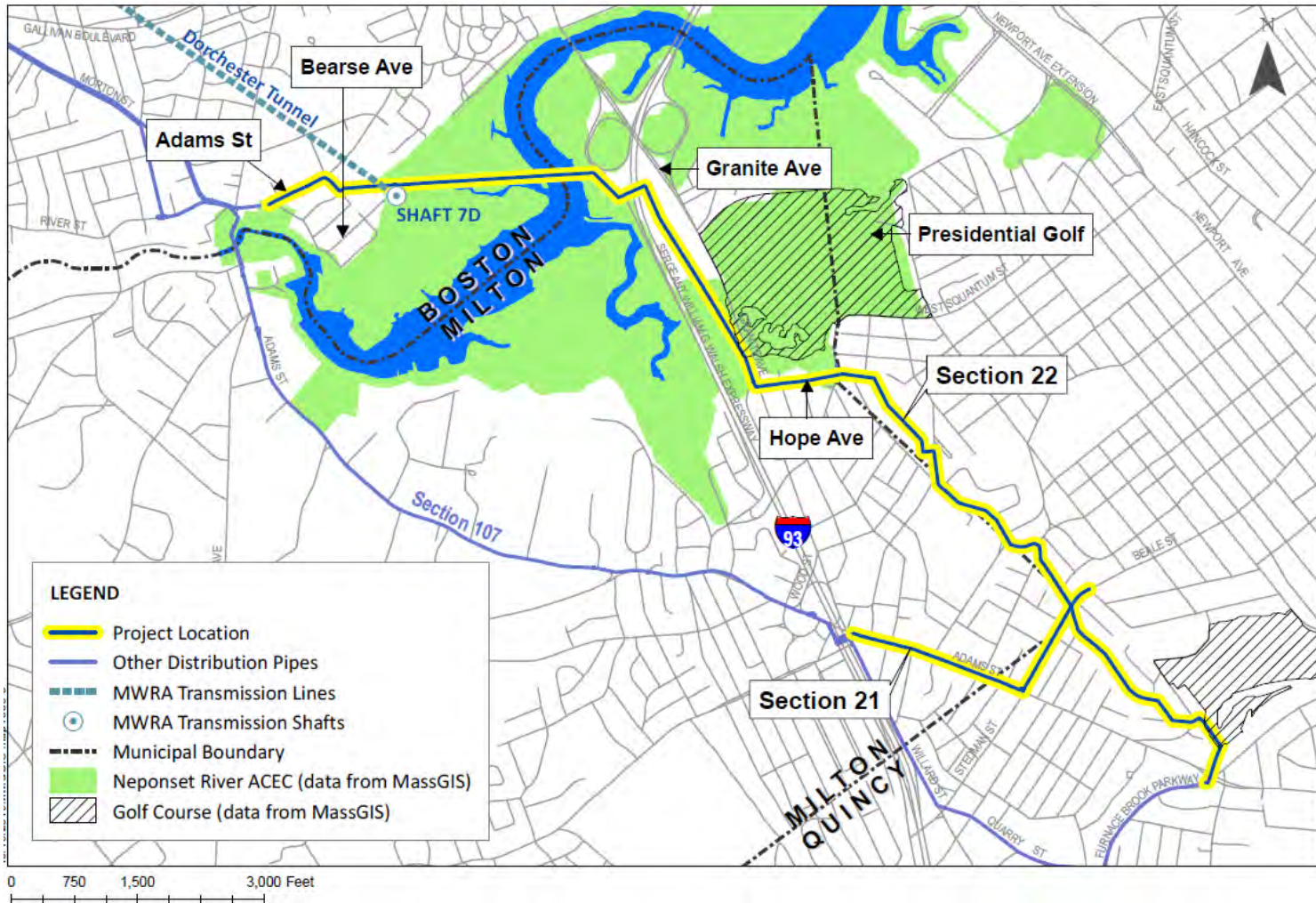


*7155 Section 22 Rehabilitation Alternatives
Analysis and Environmental Permitting
Quarterly Update*

January 20, 2021

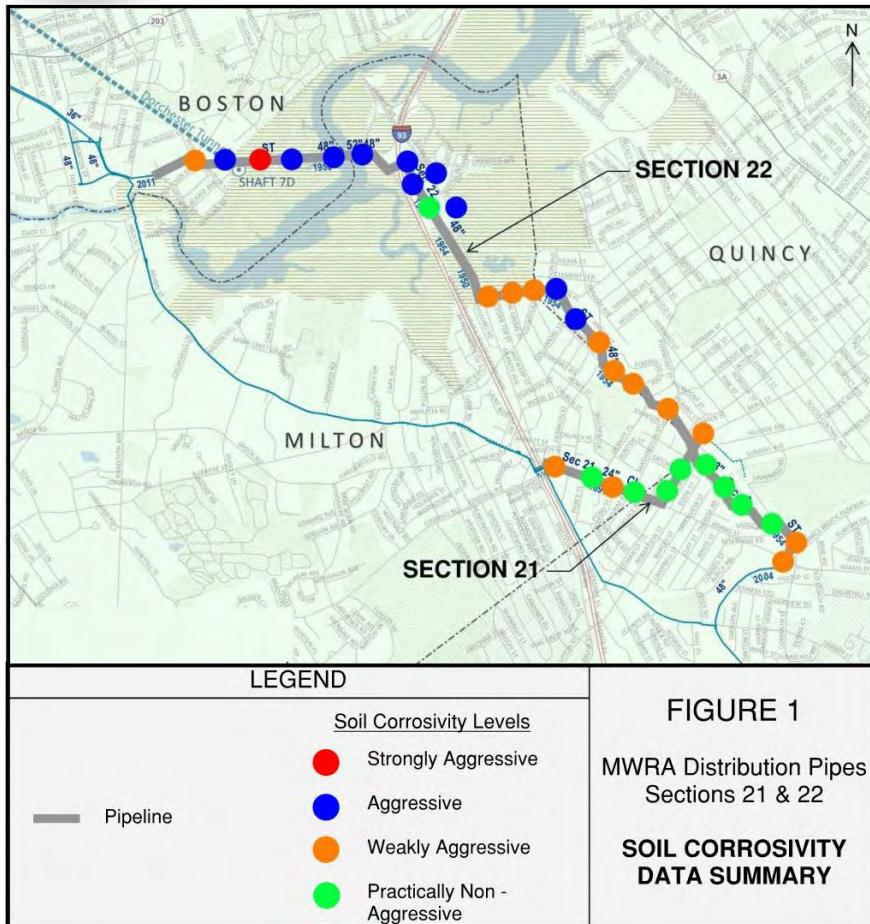


Project Schematic





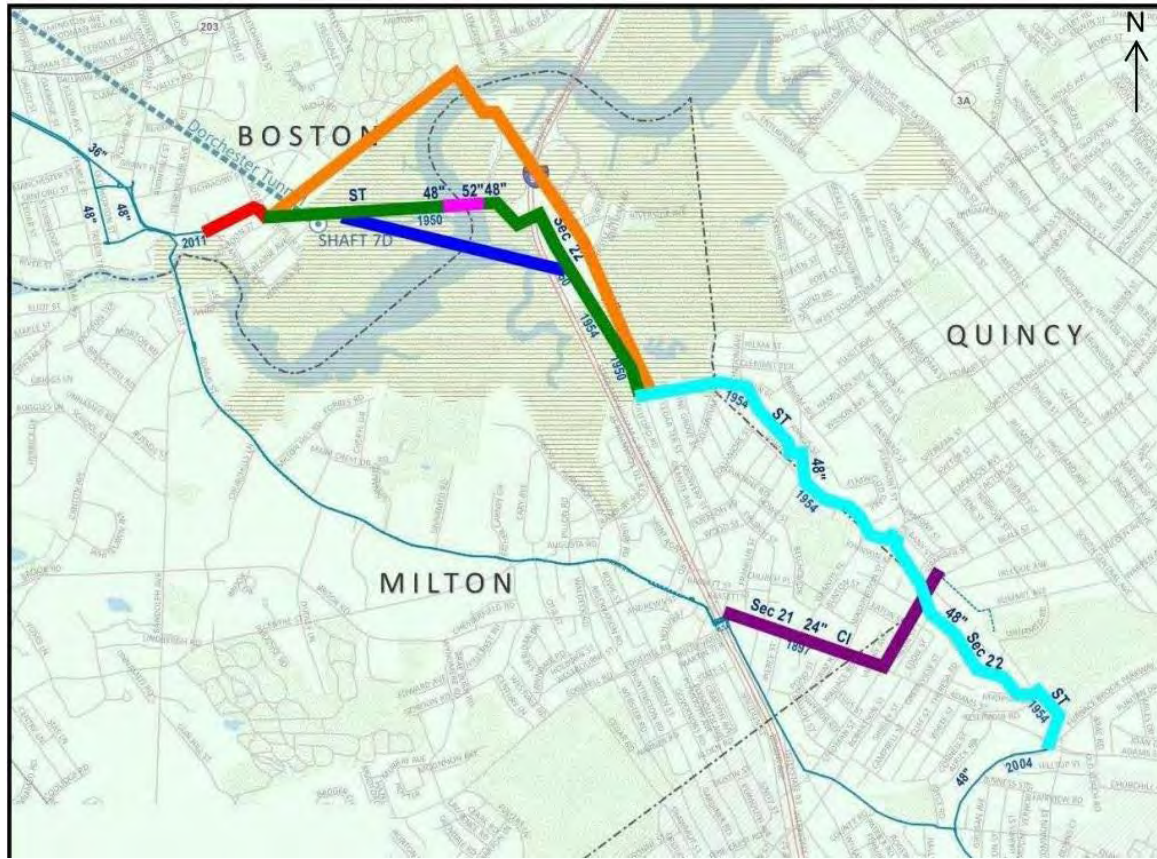
Soil Corrosivity Summary



1. Soils are more corrosive in northern portion of project based
2. Ultrasonic testing of pipe wall thicknesses of the steel pipe on Section 22 revealed values close to the original wall thickness of 7/16 inch. However, some corrosion pitting has been identified
3. The cast iron pipe of Section 21 was found to be in very good condition



Draft Construction Alternatives



LEGEND			
	Remove & Replace		Condition Assessment Under River Ongoing
	a. Clean & Line or b. Slip line		Alternative Pipe Route
	Horizontal Directional Drill		a. Clean & Line or b. Remove & Replace
			Clean & Line

The alternative to delay construction in some areas is being considered based upon pipeline condition assessment results.



Section 22 Concrete Pipe Encasement in Neponset River Estuary (ACEC)



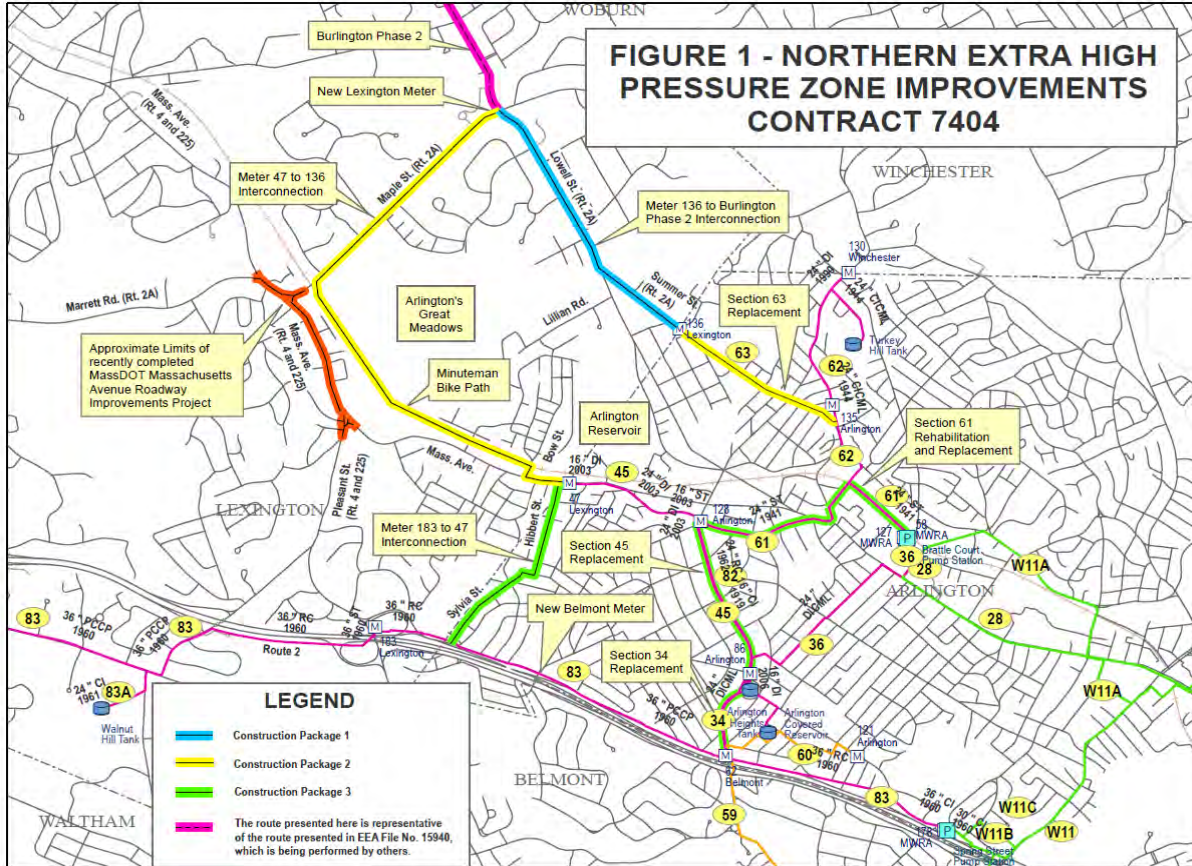


*7404 Northern Extra High Pressure Zone
Improvements
Design, Bidding, and ESDC*

January 20, 2021



Project Description



1. Strengthen entire Northern Extra High pressure zone
2. Install new piping, rehabilitate, and/or replace a total of 36,300 linear feet of piping and appurtenances
3. Construction Package 1 to connect Town of Burlington to MWRA
4. Total estimated construction cost is \$29.5 million



Proposals

Proposer	Rank	Proposed Cost *	Proposed Hours
Black & Veatch	1	\$6,710,053.83*	33,738
Green International & CDM-Smith	2	\$7,880,256.61	42,104
Stantec	3	\$6,999,712.85*	35,052
Kleinfelder	4	\$9,608,539.44	50,799
Hazen and Sawyer	5	\$9,251,708.16*	48,532
<i>Engineer's Estimate</i>		<i>\$8,081,985.96</i>	<i>39,616</i>

* Cost adjusted to correct minor mathematical errors.

- One Step RFQ/P
- Selection Committee Recommends Award to Black & Veatch Corporation

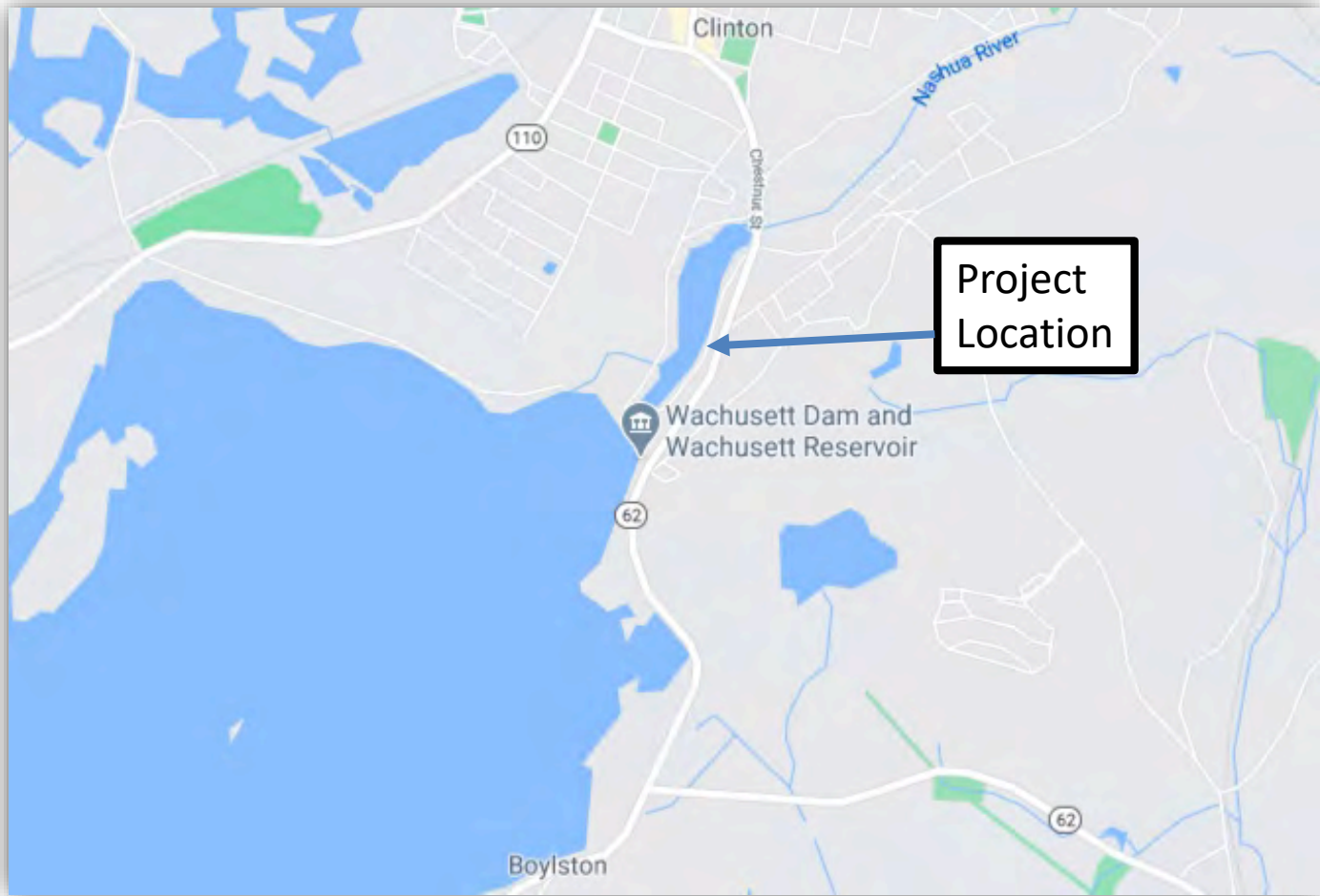


*River Road Rehabilitation Project
Contract 7701 Award*

January 20, 2021



River Road at Wachusett Dam





Present Conditions from 2018 Landslide





River Road Rehabilitation – Contract 7701

- Received 17 Bids
- Bid Range \$2,182,000 - \$4,063,050.
- Engineer's Estimate = \$3,150,670

Contractor	Bid	Terms
E.T. & L. Corp.	\$2, 182,000	270 calendar days

Staff recommend award of Contract 7710 to E.T. & L. Corp. for a term of 270 days