



Presentation to

**American Council of Engineering Companies of
Massachusetts (ACEC/MA)**

MWRA Capital Program

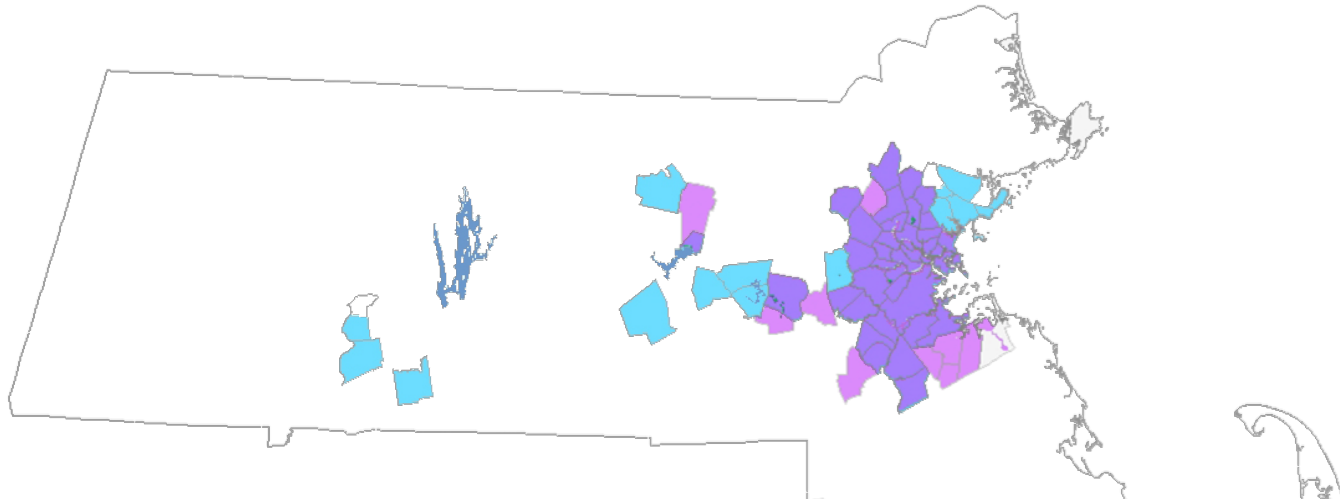
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October 20, 2026



What We Do

- MWRA provides wholesale water and wastewater services to over 3 million customers in 61 communities
- MWRA delivers an average of 200 million gallons per day to its water customers
- MWRA collects and treats an average of 350 million gallons of wastewater per day, with a peak capacity of 1.2 billion gallons



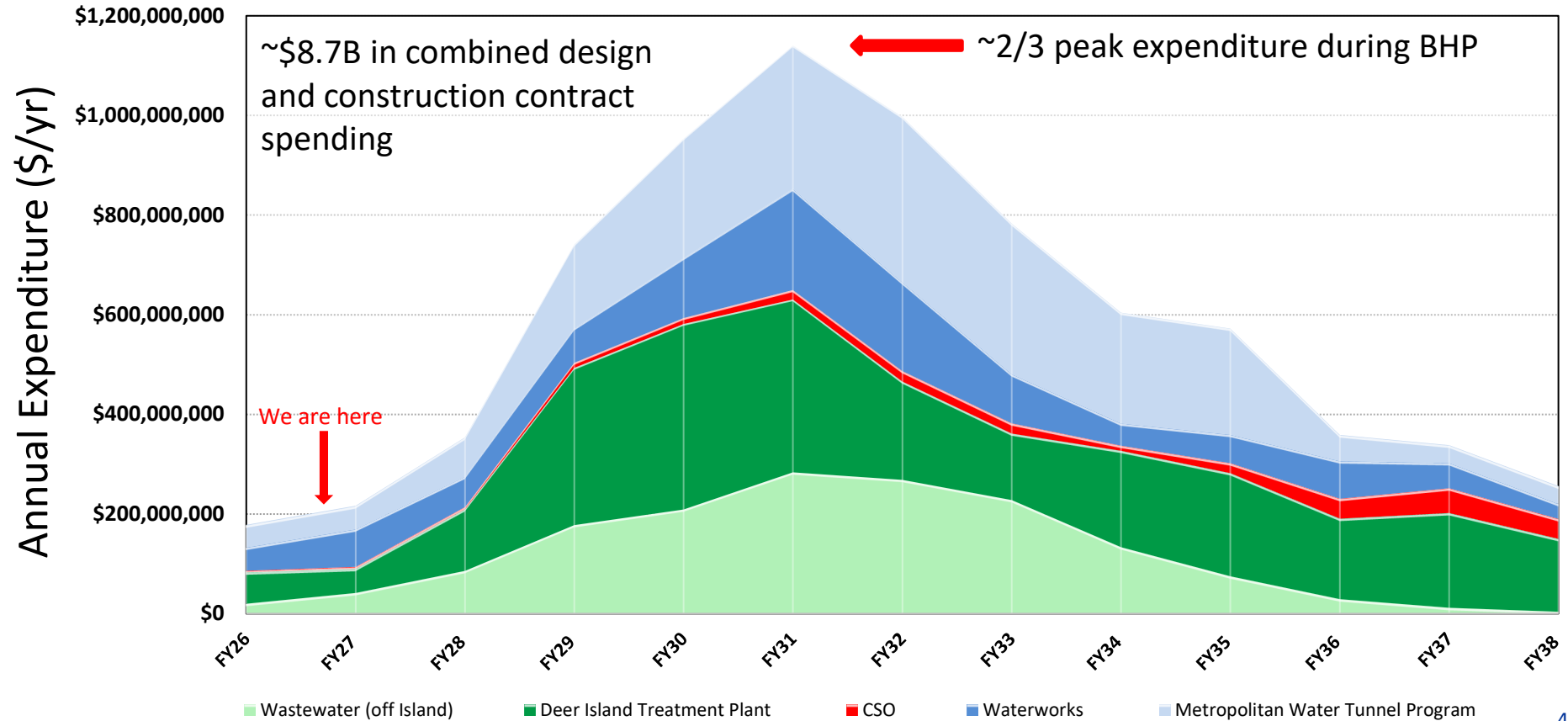


Capital Program



Capital Program Spending Forecast (Final FY27 CIP)

Professional Services and Construction





FY27 Capital Improvement Plan

174 Construction Projects Totaling \$7.07B

<u>Category</u>	<u>#</u>	<u>Total</u>
DITP/Clinton/Pellet Plant	44	\$3.15B
Tunnel Program	7	\$1.68B
Wastewater	39	\$1.07B
Water	79	\$905M
CSO*	5	\$264M

* Design & construction budgets combined



FY27 Capital Improvement Plan

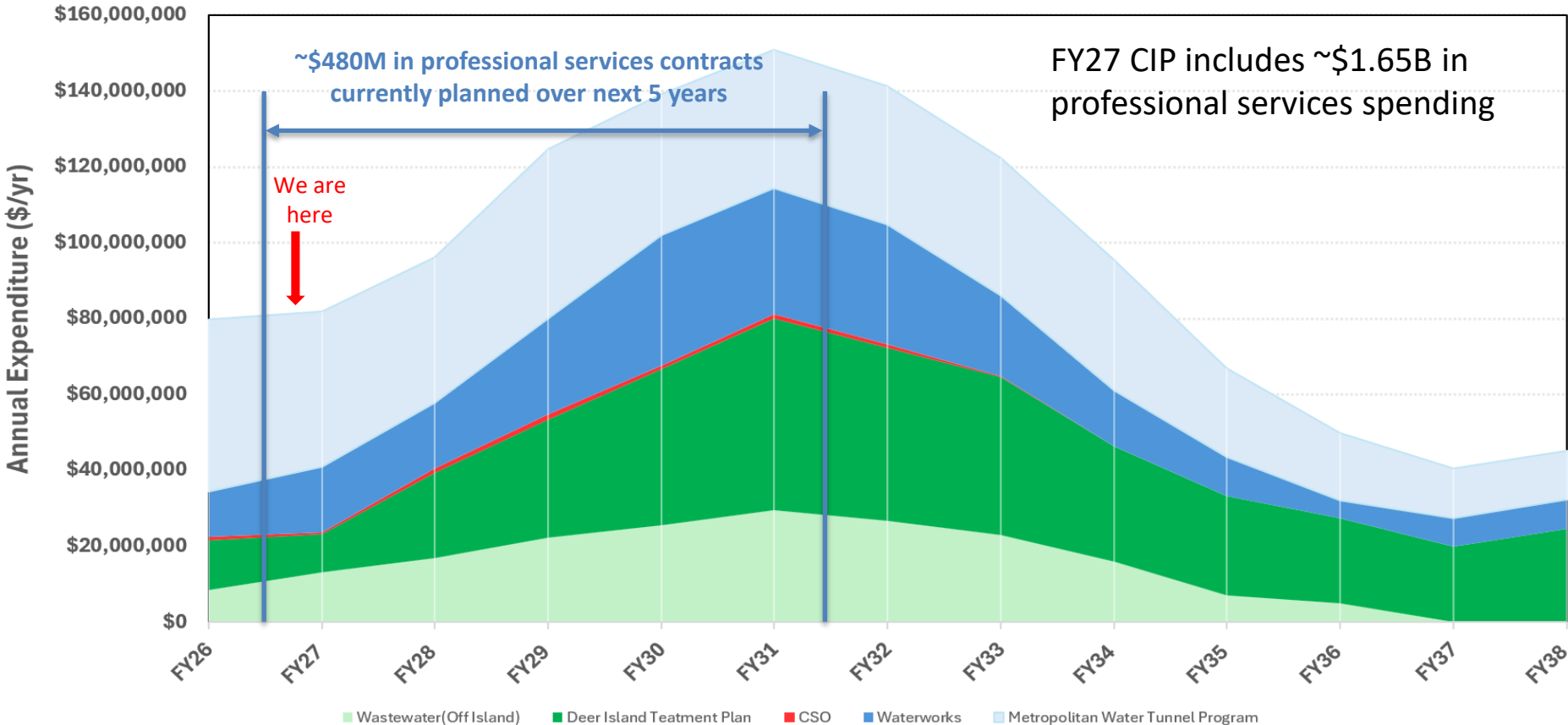
270 Professional Services Projects Totaling \$1.65B

<u>Category</u>	<u>#</u>	<u>Total</u>
DITP/Clinton/Pellet Plant	36	\$480M
Tunnel Program	8	\$485M
Wastewater	117	\$270M
Water	109	\$415M



Capital Program Spending Forecast (Final FY27 CIP)

Professional Services Only





Construction Contracts 7745, 7746, 7747: HVAC Systems Rehabilitation Deer Island Treatment Plant



Project Description: Three Construction Phase Approach:

Phase 1 (#7745): Replacement of HVAC Controls System

Phase 2 (#7746): Replacement of 25 Fume Hoods Lab Facility

Phase 3 (#7747): Replacement of HVAC and Chiller Systems

Design Status: Ongoing

Phase 1: 90%

Phase 2 & 3: 60%

Estimated Budget REI: \$17,000,000 (#7094)

Estimated Construction Cost: Phase 1: \$78,000,000

Phase 2: \$57,000,000

Phase 3: \$47,000,000

Construction Contract Type: Chapter 149

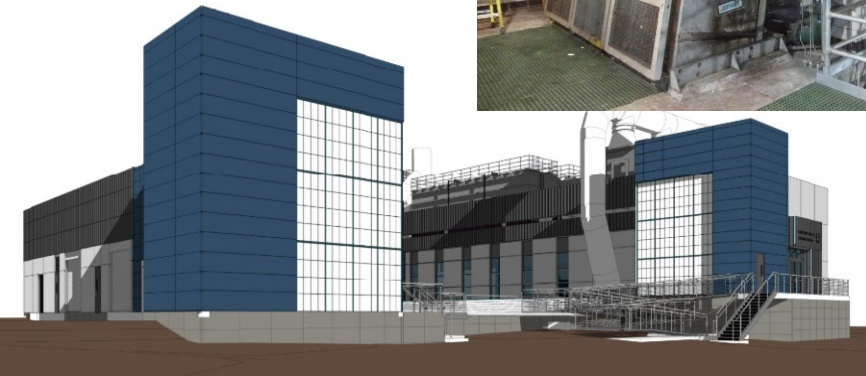
Estimated Construction Schedule:

NTP: 2027

Duration: 48 months



Construction Contract 7587: Columbus Park Headworks Rehabilitation South Boston



Description: Provide complete rehabilitation of Headwork facility, including construction of a new super structure followed by demo of existing above grade facilities. Facility to be operational during construction limiting rehab to 1 of 4 channels at a time. Closely monitoring the City of Boston's Moakley Park Floodwall project located immediately adjacent to the headworks for schedule impacts.

Design Status: Ongoing, ~60%

Estimated Budget REI: \$15,000,000 (#7636*)

Estimated Construction Cost: \$260,000,000

Construction Contract Type: Chapter 149

Estimated Construction Schedule:

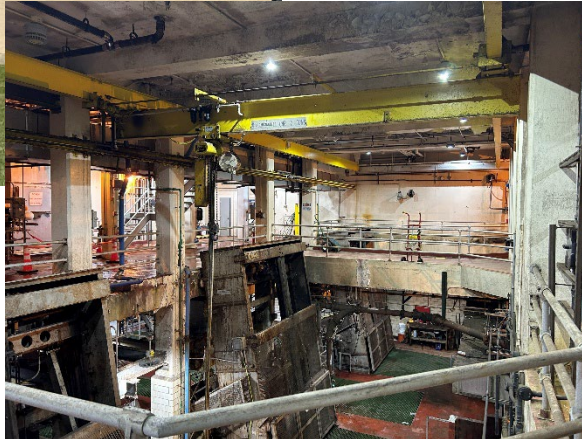
NTP: 2028

Term: 60 months

* REI - combined with Ward St Headworks



Construction Contract 7430: Ward Street Headworks Rehabilitation Roxbury



Project Description: To provide complete rehabilitation of Headwork facility, including construction of a new super structure followed by demo of existing above grade facilities. Facility to be operational during construction limiting rehab to 1 of 4 channels at a time. Project constrained by surrounding land availability. Land easements & takings under consideration.

Design Status: Ongoing, ~60%

Estimated Budget REI: \$15,000,000 (#7636*)

Estimated Construction Cost: \$260,000,000

Construction Contract Type: Chapter 149

Estimated Construction Schedule:

NTP: TBD

Duration: 60 Months

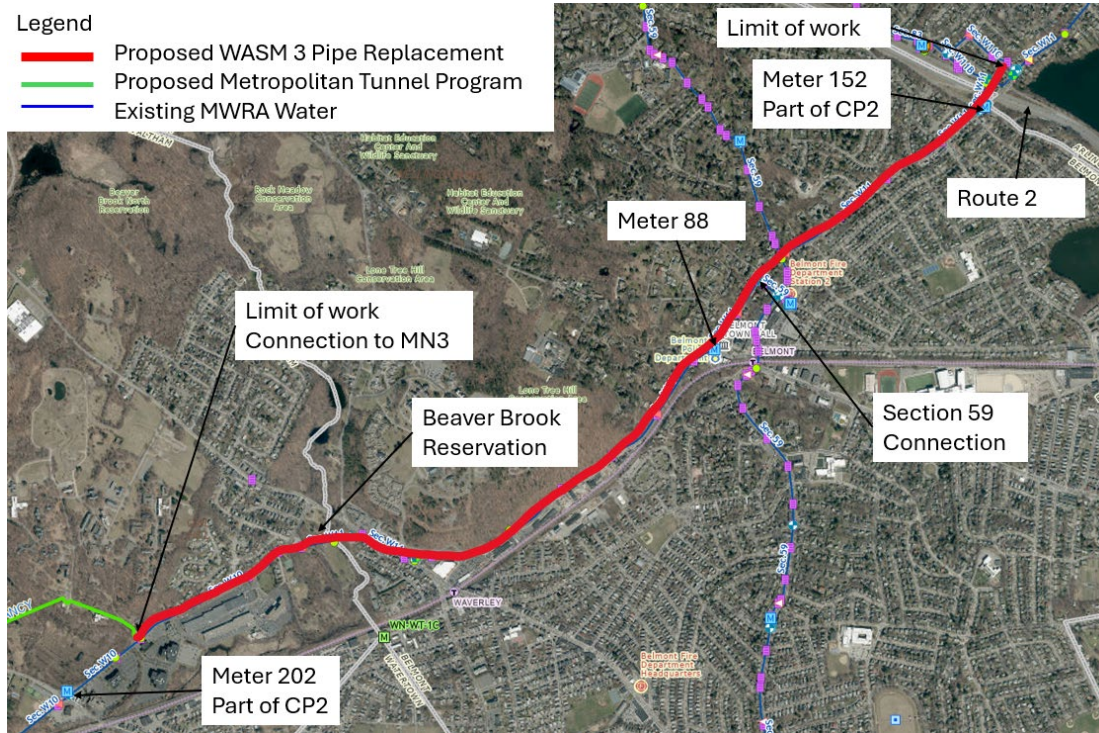
* REI - combined with Columbus Park Headworks



Construction Contract 6545, WASM 3 CP 3 Pipe Replacement, Belmont

Legend

- Proposed WASM 3 Pipe Replacement
- Proposed Metropolitan Tunnel Program
- Existing MWRA Water



Description: ~14,000 linear feet of pipe replacement located in Waltham, Belmont, and Arlington between proposed Metropolitan Tunnel Shaft MN3 and Route 2 in Arlington

Design Status: Pre-RFQ/P

Estimated Budget:

Design/ESDC (#8027): \$12,000,000

REI (#8026): \$8,000,000

Estimated Construction Cost: ~\$100,000,000

Construction Contract Type: Chapter 30/39M

Estimated Construction Schedule:

NTP: 2029

Duration: 50 months



Construction Contract 6726: Barge Berth Rehabilitation and Shoreline Protection, Deer Island Treatment Plant



Description: Barge Berth Rehabilitation and Shoreline Protection

Provide for the rehabilitation of the Barge Berth, replace the existing personal floating dock system, demolish the existing RORO system and provide additional protection including anchor and toe stones as required along the Eastern Shoreline.

Design Status: Pre-RFQ/P (#6725)

Estimated Budget: \$12,500,000

Estimated Construction Cost: ~\$85,000,000

Construction Contract Type: Chapter 30

Estimated Construction Schedule

NTP: 2029

Term: 55 months



Construction Contract 7138: Centrifuge Facility Rehabilitation Deer Island Treatment Plant



Description: Rehabilitation of the Centrifuge Facility, including:

- Existing 12 Centrifuges
- Waste Sludge Pumping Systems
- Centrate Pumping systems
- Polymer System
- Centrifuge Control Systems
- Piping and Valves

Design Status: Developing RFQ/P (#7137)

Estimated Budget: \$18,000,000

Estimated Construction Cost: ~\$90,000,000

Construction Contract Type: Chapter 149

Estimated Construction Schedule:

NTP: ~2029

Duration: 48 months



Construction Contract 7826 DeLauri Pump Station Rehabilitation, Boston



Description: Full facility rehabilitation. All major systems will be replaced including pumps, electrical, HVAC

Design Status: Pre RFQ/P (#7827*)

Estimated Budget: \$10,000,000

Estimated Construction Cost: ~\$30,000,000

Construction Contract Type: Chapter 149

Estimated Construction Schedule:

NTP: ~2029

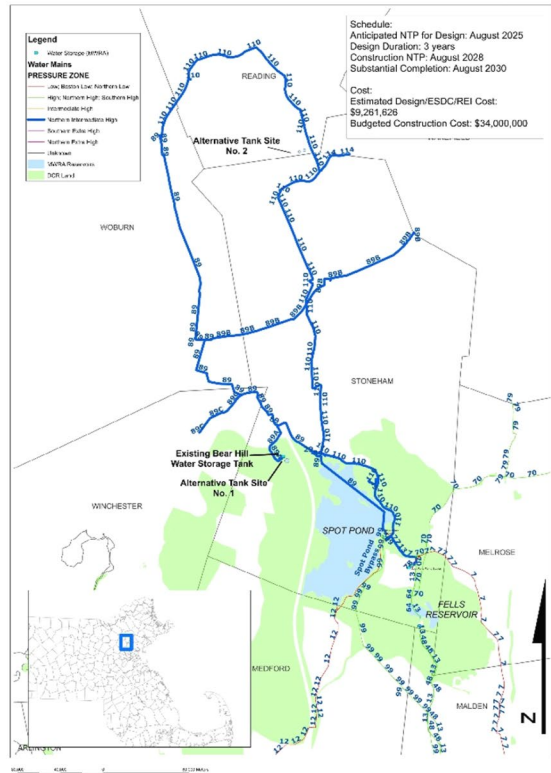
Duration: 24 months

* Design/ESDC/REI - combined with Hingham PS



Contract 7068: Northern Intermediate High Water Storage Stoneham & Reading

Figure 1:
MWRA Northern Intermediate High - Existing System



Project Description: To construct additional water storage, adding six million gallons of storage to the Northern Intermediate High pressure zone, providing storage redundancy to the system and bringing storage capacity in line with MassDEP Guidelines. Pre-fabricated water quality structure to be constructed, as well as a new overflow relief valve at Spot Pond reservoir.

Design Status: Pre RFQ/P (#7311)

Estimated Budget: \$7,737,000

Estimated Construction Cost: \$34,011,000

Construction Contract Type: Chapter 149

Estimated Construction Schedule:

- NTP: ~2030
- Duration: 24 months



Construction Contract 7797 Hingham Pump Station Rehabilitation, Hingham



Description: Entire facility rehabilitation. All major systems will be replaced including pumps, electrical and SCADA

Design Status: Pre RFQ/P (#7827*)

Estimated Budget: \$10,000,000

Estimated Construction Cost: ~\$20,000,000

Construction Contract Type: Chapter 149

Estimated Construction Schedule:

NTP: ~2030

Duration: 24 months

* Design/ESDC/REI - combined with DeLauri PS



Construction Contract 6240: Residuals Facility Rehabilitation

Deer Island Treatment Plant



Description: Multi-system rehabilitation of DITP Residuals Facility:

- Digested Sludge / Digested Sludge Overflow
- Thickened Combined Sludge
- Heated Sludge
- Gravity Thickener Overflow
- Primary Scum Screening
- Instrumentation & Control
- Digesters

Design Status: Ongoing, 90%

Estimated Budget REI/CM: \$42,000,000 (#7053)

Estimated Construction Cost: \$428,000,000 (single phase)

Construction Contract Type: Chapter 149

Estimated Construction Schedule:

NTP: TBD

Term: 60 months



Construction Contract 7971: Cottage Farm CSO Facility Rehabilitation, Phase 2 Cambridge



Description: Full facility rehabilitation and complete remaining PCB abatement not done in Phase 1

Design Status: Pre-RFQ/P (#7970)

Estimated Budget: \$15,000,000

Estimated Construction Cost: ~\$60,000,000

Construction Contract Type: Chapter 149

Estimated Construction Schedule:

NTP: ~2030

Duration: 24 months



Construction Contract 7495: Nut Island Mechanical and Electrical Upgrade Quincy



Project Description: Provide rehabilitation of the mechanical and electrical components of the Nut Island Headworks facility. Major facility components include hydraulic and electric influent sluice gates, mechanical bar screens, manual screen effluent sluice gates, and vortex grit chambers with air lift pump collectors for six operating channels.

Design Status: Pre-RFQ/P

Estimated Budget:

Design/ESDC (#7365) \$10,000,000

REI (#7635) \$4,500,000

Estimated Construction Cost: ~\$50,000,000

Construction Contract Type: Chapter 149

Estimated Construction Schedule:

NTP: ~2031

Duration: 36 months



Construction Contract 6538: Odor Control Rehabilitation

Deer Island Treatment Plant



Description:

Provide for the complete rehabilitation of the East and West, Residual and North Main Odor Control systems including but not limited to the replacement of Carbon Absorbers, Wet Scrubbers, conveyance systems (duct work and piping) and other related mechanical and control systems

Design Status: Pre-RFQ/P

Estimated Budget:

Design/ESDC (#7088): \$26,000,000

Const. Support (#8214): \$20,000,000

Estimated Construction Cost: ~\$275,000,000

Construction Contract Type: Chapter 149

Estimated Construction Schedule:

NTP: ~2032

Term: 72 months



Construction Contract 8015: CBS 3 Sect 25 New Siphon Construction Charlestown



Project Description: Construct new gravity pipe and an inverted siphon along the Cambridge Branch Sewer (CBS), Section 25, to replace the existing influent siphon to the DeLauri Pump Station. The current 1895 influent siphon has a single, 60" barrel and is a hydraulic restriction. The 2017 CBS study proposed a 72" double-barreled siphon under the Mystic River to provide conveyance redundancy and hydraulic relief. The proposed pipe alignment and shaft locations are featured on the map. The existing siphon running under the Mystic River and footprint of the decommissioned Alford St. Facility will be abandoned.

Design Status: Pre-RFQ/P (#8014)

Estimated Budget: \$5,500,000

Estimated Construction Cost: ~\$33,090,000

Construction Contract Type: Chapter 30

Estimated Construction Schedule:

NTP: ~2033

Duration: 24 months



Construction Contract 6729: Aeration and Clarifier Rehabilitation

Deer Island Treatment Plant



Description:

Provide for the replacement and refurbishment of the Aeration system on Deer Island including the replacement of the Aeration mixers, oxygen conveyance systems (including piping and valves), control systems and concrete resurfacing and coating in the aeration tanks.

Design Status: Pre-RFQ/P (#6728)

Estimated Budget: ~\$14,000,000

Estimated Construction Cost: ~\$140,000,000

Construction Contract Type: Chapter 149

Estimated Construction Schedule:

NTP: ~2034

Term: 48 months



Construction Contract 7140: Cryogenics Plant Equipment Replacement Deer Island Treatment Plant



Description: Cryogenics Plant Equipment Replacement

Provide for the replacement of the existing Cryogenics systems including compressors, chillers, cooling towers, storage tanks (both liquid and gaseous) and in addition the associated conveyance and control systems

Design Status: Pre-RFQ/P

Estimated Budget:

Design/ESDC (#7139): \$18,000,000

CM (#8213): \$10,000,000

Estimated Construction Cost: ~\$95,000,000

Construction Contract Type: Chapter 149

Estimated Construction Schedule:

NTP: ~2036

Term: 48 months



Construction Contract 8211, Chemical Pipe Replacement Phase 2

Deer Island Treatment Plant



Description: Chemical Pipe Replacement Phase 2

Provide for the replacement of various chemical conveyance systems (including tanks, piping and pumping and control systems) for the Peroxide, Ferric, Hypochlorite and Bisulfite systems

Design Status: Pre-RFQ/P (#6851)

Estimated Budget: ~\$9,500,000

Estimated Construction Cost: ~\$68,000,000

Construction Contract Type: Chapter 149

Estimated Construction Schedule:

NTP: ~2036

Term: 48 months



Contract 7127: SSPS VFD Replacement Deer Island Treatment Plant



Description: SSPS VFD Replacement

Replacement and or addition of the following equipment in the SSPS facility:

- Eight 1250HP VFD, Motors and shaft assemblies
- Existing isolation valves and pipeline systems
- Existing Building HVAC systems
- Addition of secondary isolation for pumping
- Control & electrical systems improvements
- Wet well concrete repairs

Design Status: Pre-RFQP

Estimated Budget:

Design/ESDC (#8217): \$22,000,000

CM (#8216): \$22,000,000

Estimated Construction Cost: ~\$220,000,000

Construction Contract Type: Chapter 149

Estimated Construction Schedule:

NTP: ~2036

Term: 48 months



Construction Contract 7142: Replacement of Hypochlorite and Bisulfite Tanks Deer Island Treatment Plant



Description: Replacement of Hypochlorite and Bisulfite Tanks

Replacement of six 250,000-gallon chemical storage tanks (four hypochlorite and two Bisulfite)

Design Status: Pre-RFQ/P (#7749)

Estimated Budget: \$18,000,000

Estimated Construction Cost: ~\$78,000,000

Construction Contract Type: Chapter 149

Estimated Construction Schedule:

NTP: ~2039

Term: 48 months



FY27 Capital Improvement Plan

Upcoming Professional Services Contracts (FY27 – FY31)

Deer Island Treatment Plant

Program / Project / Contract	Contract No.	Estimated NTP	Estimated Contract Amount
Digester/Storage Tank REI	7053	1/1/2027	\$42,000,000
Odor Control Rehab - Design/ESDC	7088	9/1/2029	\$26,000,000
SSPS Facility Rehab CM	8216	12/1/2030	\$22,000,000
Odor Control Rehab ConSupport	8214	6/1/2027	\$20,000,000
HVAC Equip Replac REI	7094	4/1/2027	\$17,000,000
Elect Equip 5 Des/ESDC/REI	7130	12/1/2028	\$13,000,000
Barge Berth Des/ESDC/REI	6725	1/1/2027	\$12,500,000
Silo Replacement Design/ESDC/REI	8206	6/1/2029	\$12,000,000
Cryo Plant Equip Replace CM	8213	9/1/2030	\$10,000,000
PICS FibLoop Repl Design/ESDC/REI	8215	12/1/2030	\$8,000,000



FY27 Capital Improvement Plan

Upcoming Professional Services Contracts (FY27 – FY31)

Waterwork

Program / Project / Contract	Contract No.	Estimated NTP	Estimated Contract Amount
WASM3 CP3 Des/ESDC/REI	8027	1/1/2027	\$20,000,000
Cosgrove Tunnel Rehab Des/ESDC	7738	7/1/2028	\$10,000,000
Sections 20 & 58 - Design/ESDC/REI	6296	7/1/2028	\$8,900,000
SEH Storage Ph 2 Final Des/CA/RI	6444	7/1/2029	\$7,400,000
NIH Storage- Design / ESDC/RE/RI	8077	2/1/2027	\$7,737,000
Quabbin Aqueduct TV Inspection	6277	11/1/2029	\$5,500,000
Quabb Aqu WPS Final Design/CA/RI	7460	1/1/2030	\$4,350,000
3 Water PS Rehab-Des/CA/REI	7526	7/1/2028	\$4,500,000
Section 80 Rehab Design/CA	6892	7/1/2027	\$3,800,000
CWTP Infl Cntrl Des/ESDC/REI	8031	3/1/2027	\$3,500,000
Section 22 - Design/ESDC/REI	7120	7/1/2027	\$5,720,000
Quabbin Admin Bldg Rehab Des CA\RI	7564	10/1/2027	\$2,800,000
Sect 13&48 Rehab Design /CA/RI	7602	7/1/2027	\$2,309,800
New Salem Building Design	8073	1/1/2029	\$2,100,000
Weston Aqued GH Rehab	7700	1/1/2029	\$2,074,000
Rehab Sec 37&46 Chel/Bos -DS/CA/RI	7405	7/1/2028	\$3,000,000
Shaft 9 Bldg Impr Design/ESDC	8075	7/1/2028	\$1,200,000
Shaft12 Isolatr Gate Des/CA/RI	8034	7/1/2028	\$1,000,000
Fells Loring RD Tanks Rehab Des/CA	7385	7/1/2030	\$1,000,000
Wat Met/VLt Mhole Des/CA/REI Ph1	7542	7/1/2028	\$3,500,000
Csgrov Tun Rehab Inspction	8030	4/1/2028	\$1,000,000



FY27 Capital Improvement Plan

Upcoming Professional Services Contracts (FY27 – FY31)

Wastewater (Off Island)

Program / Project / Contract	Contract No.	NTP	Estimated Contract Amount
Ward St & Colum Pk Head-REI	7636	11/1/2027	\$15,000,000
CF Rehab & PCB Abate - Des/CA/REI	7970	7/1/2028	\$15,000,000
NI Mech & Elect Upg Design/CA/REI	7365	7/1/2028	\$14,500,000
DeLauri & Hingham PS Rehab Des & REI	7824	7/1/2027	\$10,000,000
Tunnel Rehab Design, CA, REI	8236	9/1/2028	\$7,500,000
CBS 3 Sec 25 New Siphon Des/ESDC/REI	8014	7/1/2031	\$5,500,000
Int Ren 5 NNVS 607-610 Des/CA	7515	1/1/2029	\$5,000,000
HWs Shafts-Des/CA/REI	7549	12/1/2031	\$5,000,000
IPS Design/ESDC	8049	7/1/2030	\$5,000,000
Siphon Struc Rehab Phase , Design/CA/REI	7685	1/1/2029	\$4,900,000
Houghs Neck PS Rehab Des	7798	7/1/2031	\$3,000,000
New Neponset PS Rehab Des/ESDC/REI	8038	7/1/2028	\$4,000,000
Framingham PS Rehab Des/ESDC	8040	7/1/2030	\$3,000,000
Quincy PS Rehab Des/ESDC/REI	8043	7/1/2028	\$4,000,000
Squantum PS Des/ESDC	8046	7/1/2029	\$3,000,000
Wig Term Des/ESDC/REI	7551	7/1/2030	\$2,000,000
High Level Culv. Des/ESDC/REI	8155	2/1/2028	\$2,000,000



Thank you!

Questions?