



Meetinghouse Pond Area Collection System and Pumping Station

Orleans Citizens Forum

April 28, 2022



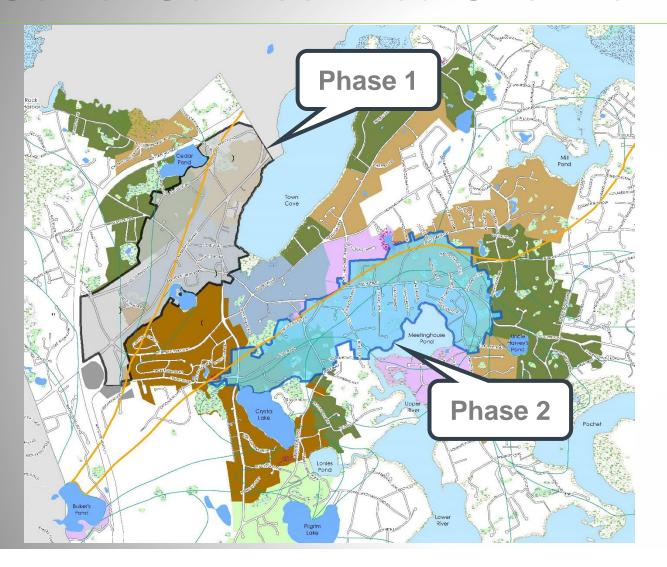




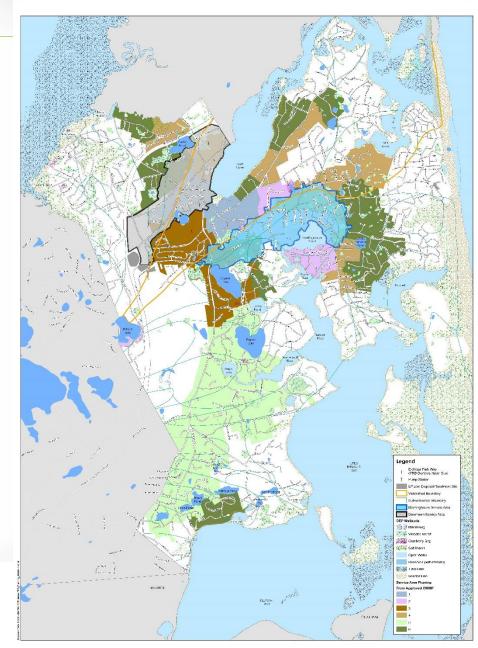
Service Area Overview

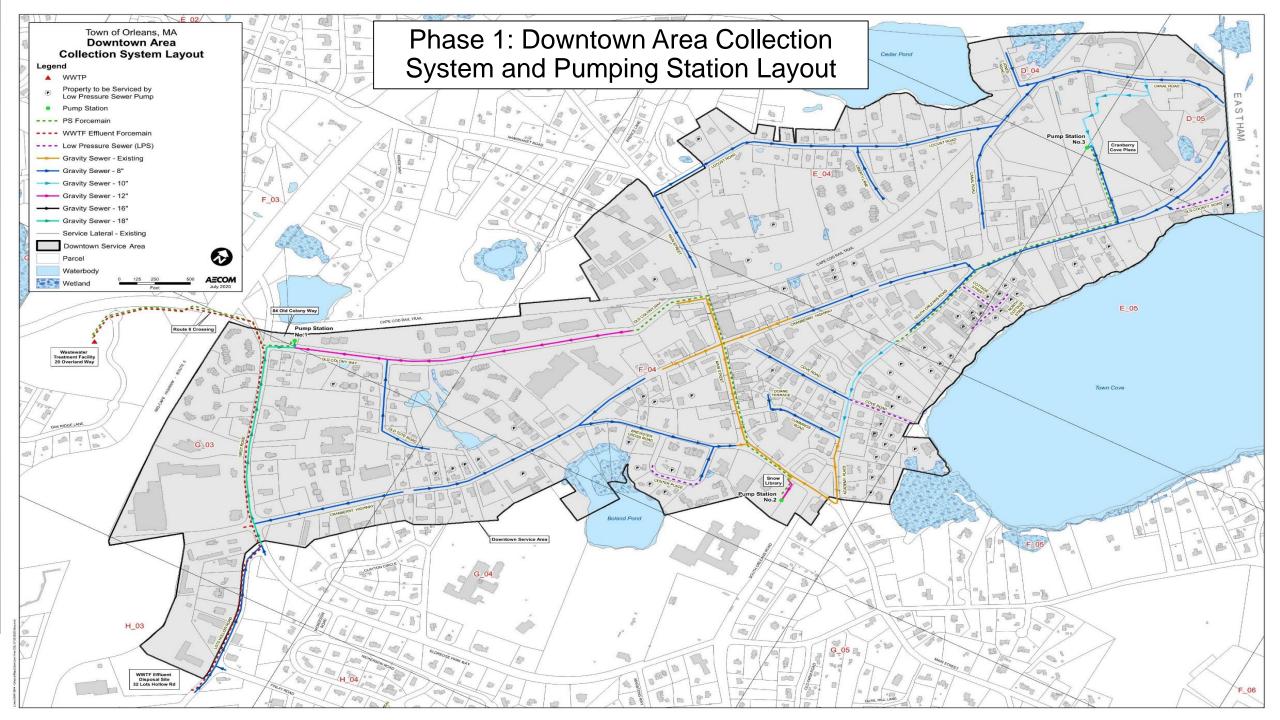


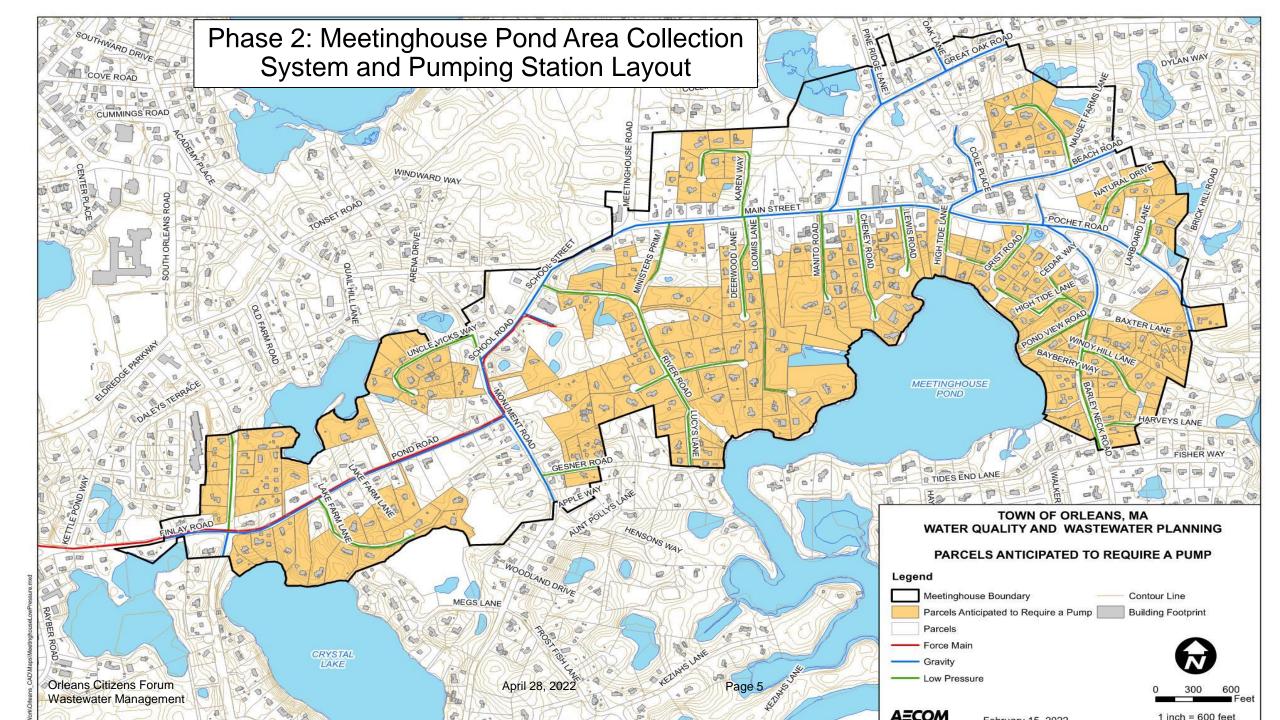
Sewer Service Area Overview







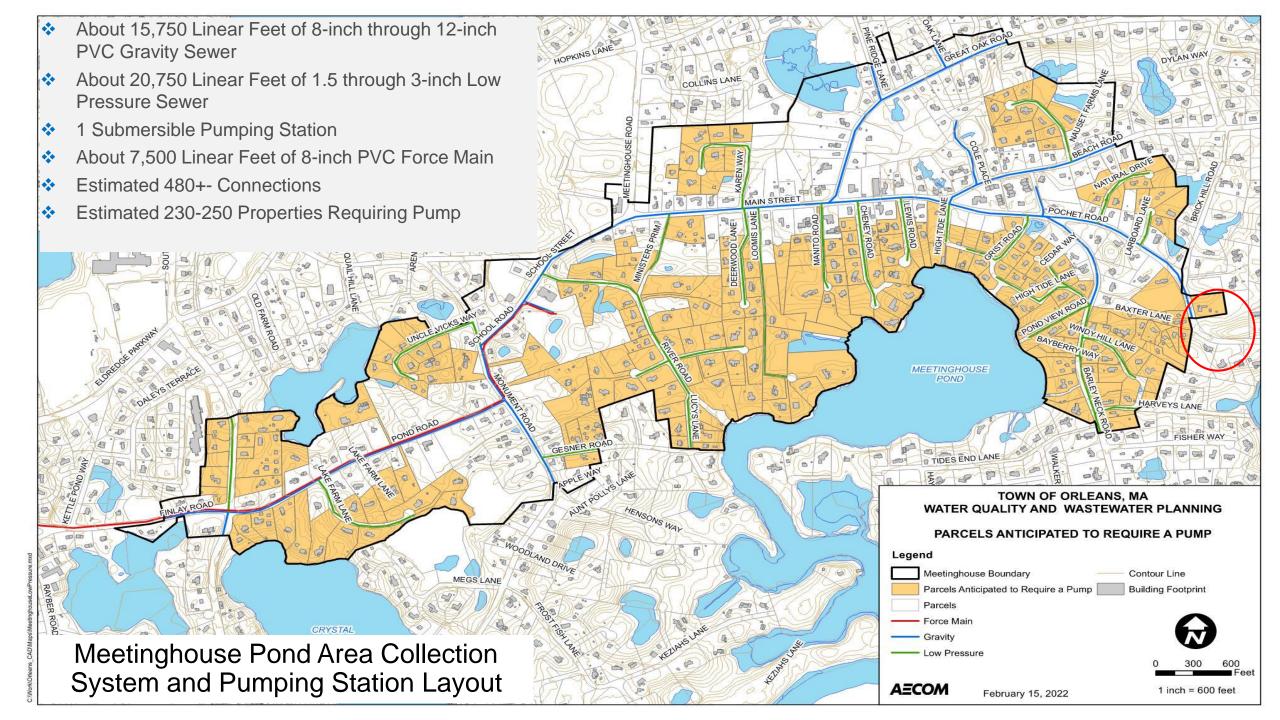






Meetinghouse Pond Area Collection System and Pumping Station





Preliminary Design

- Topographic Survey
 - Aerial Survey Completed
 - Ground Survey Completed
- Cultural Resource Evaluation
 - Completed
 - Submitted to Massachusetts
 Historical Commission 10/27/21
 - Received Determination that Project is Unlikely to Impact Resources

- Subsurface Investigation
 - Preclearing and Borings Completed Except for the Two Boring Located at the Pumping Station
 - Boring Logs Completed
- On-site Disposal Systems
 - Scanning of Board of Health Records - Completed
 - Incorporate Information onto the Contract Drawings Completed
- Supplemental Survey and Subsurface Investigations - Ongoing



Final Design

- ID Easement Locations for Private Roadways - Completed
- Prepare SRF Project Evaluation Form - Completed

- Perform Capacity Analysis
- Update Project Cost Estimate
- Prepare Contract Documents
- Prepare and Submit Permit Applications



MassDEP State Revolving Fund

TABLE 1 CLEAN WATER STATE REVOLVING FUND Calendar Year 2022 CWSRF Draft Intended Use Plan

Issued February 17, 2022

67 Construction Projects Funded for \$898M

NEW PROJECTS

Rating	Applicant	SRF ID	Project	Project Cost	2022IUP Cos
148	FITCHBURG (PF)	6936	CSO 010, 032, 045, 083 Separation/Rehabilitation	\$28,323,000	\$28,323,000
	LYNN WATER AND SEWER COMMISSION (PF)(H)	7024	West Lynn Sewer Separation - Phases 3, 4, & 5	\$68,833,914	\$25,000,000
134	NEW BEDFORD (PF)	7004	Wastewater Collection System Improvements	\$69,165,000	\$6,820,000
131	NEW BEDFORD (PF)	7089	Pumping Station Improvements (R)	\$28,840,000	\$28,840,000
129	NANTUCKET (H)#	7163	Phase 2 Surfs The Meetinghouse Pon	d Area Proiect	\$10,145,000
123	CHICOPEE (PF)	6973	South Fairvier is Ranked 10 th out of 67	•	\$12,298,000
123	TAUNTON (PF)(H)	7160	2023 Sewer 8 is the Largest Project	•	\$3,000,000
120	FALL RIVER (PF)(H)	7050	Mothers Brooks Sewe	\$10,004,000	\$10,004,000
117	HAVERHILL (PF)(H)	7053	Sewer Collection Sewer Upgrades	\$1,120,000	\$1,120,000
117	ORLEANS (H)	7150	Meetinghouse Pond Area Collection System and PS	\$32,906,000	\$32,906,000
116	HAVERHILL (PF)(H)	7041	Haverhill MA Locke Street Sewer Separation Project	\$26,650,000	\$26,650,000



Next Steps

ltem	Timing
Annual Town Meeting	May 9, 2022
Voter Approval of Funding	May 17, 2022
Submit Certified Vote to MassDEP	June 30, 2022
Submit Loan Assistance Application to MassDEP	October 2022
Conduct Bidding Phase	January – March 2023
Deadline for Start of Construction	June 30, 2023
Construction Phase	Spring 2023 – Spring 2026







Betterments and Revenue Sources



Summary of Project Costs to Town of Orleans

Costs to Town Assume 25% Grant from Cape and Islands Clean Water Trust

Phase	Treatment and Recharge Facilities	Collection System	Total
Phase 1: Downtown	\$34,661,733	\$22,275,512	\$56,937,245
Phase 2: Meetinghouse Pond *	-	\$27,038,300	\$27,038,300
Total	\$34,661,733	\$49,313,812	\$83,975,545 **

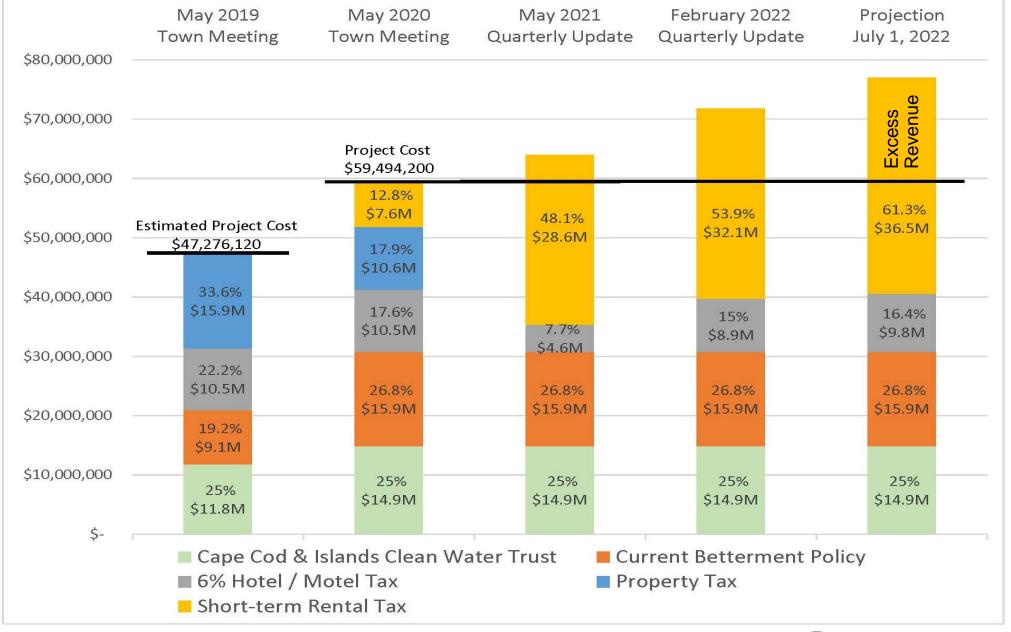


^{*} Meetinghouse Pond Costs Are Current Estimate. Final Cost to be Determined After Bid Opening (Spring 2023)

^{**} Net Cost to Orleans After Receiving \$23,078,800 from the Cape and Island Trust

Sources of Estimated Funding – Downtown Area Project During the Last Three Years

Note that Project Cost Does Not Include SRF Ineligible Costs for Planning and Design





Betterment Cost Summary

Betterment Approach	Downtown Area \$22,275,512 1,105 Connections	Meetinghouse Pond Area \$27,038,300 480 Connections
20% of Total Project Cost	\$4,032	\$11,266





Annual Town Meeting



Annual Town Meeting – Related Articles

Article	Description	Cost
19	Fund Meetinghouse Pond Area Collection System Construction	\$32,906,000
20	Water Quality Improvements	\$500,000
21	Replace Water Mains	\$575,000
22	Replace Water Services	\$500,000



Article 20 - Water Quality Improvements

- Funding Requested
 - > \$500,000
- Location
 - 25 Pond Road
 - 19 Monument Road
- Proactive Actions
 - Complete with Meetinghouse Pond Area Project Construction to Avoid Re-excavation of Roadways and Reduce Construction Costs
 - Obtain Economies of Scale Savings

- Anticipate Similar Cost Savings from Water Quality Improvements Completed as Part of the Downtown Area Project
- Cannot be Completed at the Funding Requested Without Passage of Article 19



Article 21 - Replace Water Mains

- Funding Requested
 - > \$575,000
 - Paid From the Water Special Revenue Fund
- Location
 - Lucy's Lane River Road to Gesner Road
 - Baxter Lane Pochet Road to Barley Neck Road
- Proactive Actions
 - Improve Fire Flows and System Reliability
 - Obtain Economies of Scale Savings

- Complete with Meetinghouse Pond Area Project Construction to Avoid Re-excavation of Roadways and Reduce Construction Costs
- Anticipate Similar Cost Savings from Water Main Replacement Completed as Part of the Downtown Area Project
- Cannot be Completed at the Funding Requested Without Passage of Article 19



Article 22 - Replace Water Services

- Funding Requested
 - > \$500,000
 - Paid From the Water Special Revenue Fund
- Location
 - About 4,000 I.f. of Water Services located throughout the Project Area
- Proactive Actions
 - Replace 50-Plus Year-old Water Services
 - Obtain Economies of Scale Savings

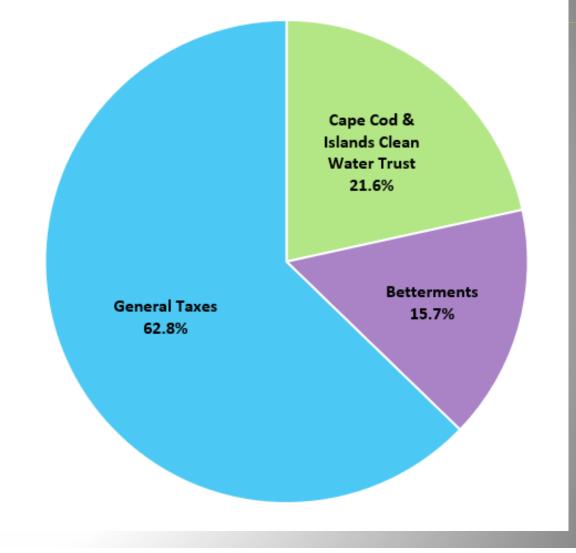
- Complete with Meetinghouse Pond Area Project Construction to Avoid Re-excavation of Roadways and Reduce Construction Costs
- Anticipate Similar Cost Savings from Water Service Replacement Completed as Part of the Downtown Area Project
- Cannot be Completed at the Funding Requested Without Passage of Article 19



Funding Strategy Summary

Description	Cost
Project Costs	
SRF Eligible	\$92,315,200
SRF Ineligible	\$14,739,145
TOTAL	\$107,054,345
Revenue Sources	
Cape Cod & Islands Clean Water Trust	\$23,078,800
Betterments	\$16,795,109
General Taxes	\$17,680,436
Wastewater Stabilization Fund	\$49,500,000
TOTAL	\$107,054,345

Total Project Cost Equals \$107,054,345 (SRF Eligible = \$92,315,200 Plus SRF Ineligible = \$14,739,145)

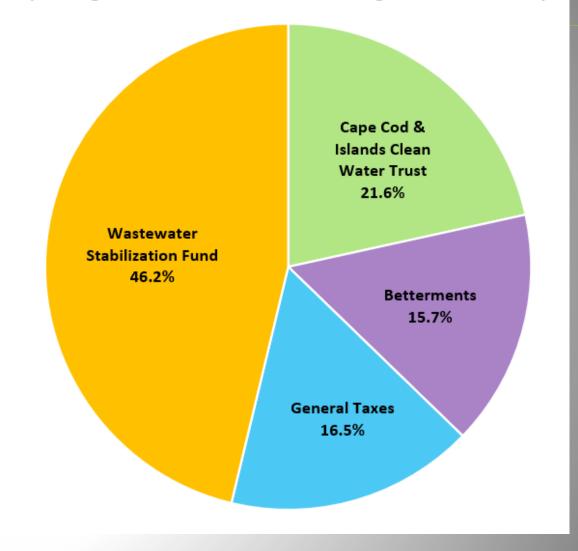




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Thank you

