



Water Resources Management Update

Barnstable Town Council

**Department of Public Works
August 17, 2023**



Comprehensive Wastewater Management Plan

Recent Initiatives

Finalizing the FY23 CWMP Annual Report

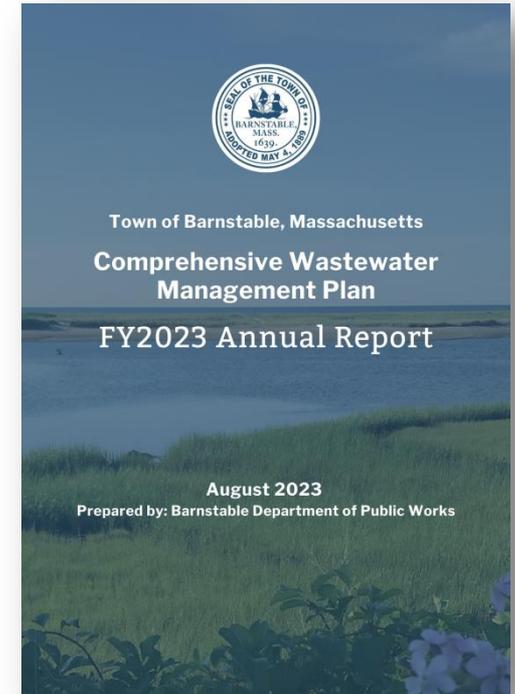
- Intend to submit this month

State Revolving Fund Project Evaluation Forms (PEFs)

- Five projects were submitted as Clean Water projects:
 1. Nitrogen Removal Improvements & New Headworks Facility
 2. 2024 Wastewater Pump Station Improvements
 3. Phinney's Lane Neighborhoods Sewer Expansion Project
 4. Route 28 West Sewer Expansion Project
 5. Culvert Asset Management Plan

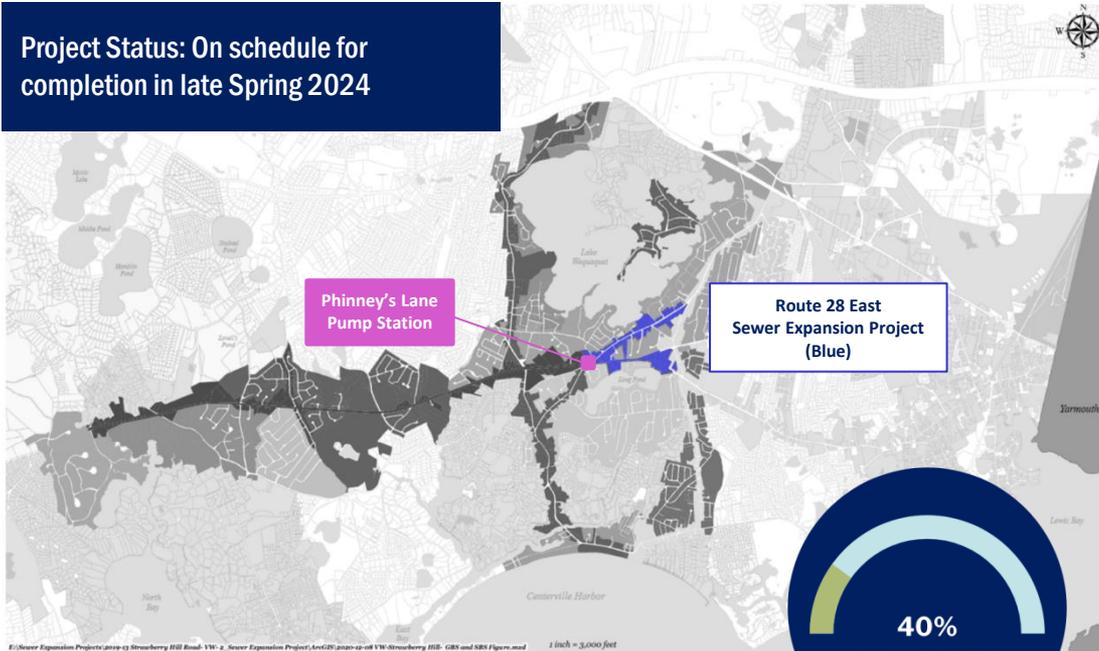
Preparation for Fall Construction Season

- Reviewing proposed traffic management plans
- Resumed traffic coordination calls with key stakeholders



Route 28 East Sewer Expansion Project

Project Status: On schedule for completion in late Spring 2024



Project Status:

- Off-road sewer construction
 - Barnstable Intermediate School – COMPLETE
 - Water Pollution Control Facility – projected completion 8/31
 - In-road construction within Route 28 to resume after Labor Day

Phinney's Lane Pump Station:

- Removal of sheeting, piles and dewatering efforts are complete
- First level column installation has commenced



Strawberry Hill Road Sewer Expansion Project

Project Status: Construction completed

Strawberry Hill Road
Sewer Expansion Project
(Yellow)

95%
COMPLETE

Project Status:

- Sewer service riser construction anticipated this Fall
 - Public hearing anticipated at 8/17 Town Council (Item #2024-003)
 - Proposed work will occur in the shoulder
 - Specified for a targeted section of properties, south of Route 28
- Anticipated sewer availability for first connections in Spring 2024

Strawberry Hill Road Sewer Pump Station:

- Electrical service for the pump station anticipated to be completed this fall

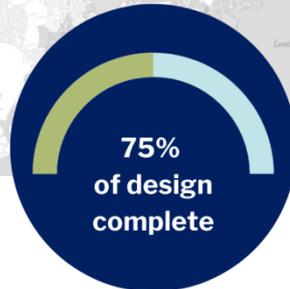


Centerville Village Sewer Expansion Project

Project Status: Construction anticipated to commence in 2024

Centerville Village Sewer Expansion Project (Purple)

E:\Sewer Expansion Projects\Jan12-13 Strawberry Hill Road_VW_x_Sewer Expansion Project\ArcGIS\Jan12-13 VW Strawberry Hill_CRS and SRN Figure.mxd 1 inch = 3,000 feet



Expedites sewer expansion with roadways along proposed Park City Wind on-shore duct bank installation route

Project Details:

- Currently reviewing 75% sewer design plans
- Continuing efforts to site pump station locations and associated easement options

Outreach Efforts:

- Initial public comment periods have closed
- Evaluating all feedback and formalizing public comment summary, to be published on BarnstableWaterResources.com



Water Pollution Control Facility

Solids Processing Facility Upgrades

- Solids holding tanks rehabs continue
- 3 out of 4 sludge holding tanks have been rehabilitated
- Work continues on polymer blend units and aeration blowers
- Electrical, mechanical and process equipment installations continue
- Project anticipated to reach completion before the end of 2023

Nitrogen Removal and Headworks Improvements

- Nutrient removal conceptual design in review
- Clean Water project SRF application submitted

Effluent Disposal Evaluation

- Contracting for next phase of work



Water Quality Monitoring

Cyanobacteria Monitoring

- On-going monitoring at 27 ponds, will continue through September
 - Public Health Advisories at Long Pond, Marstons Mills and Parker Pond, Osterville
 - Pet Advisories at Lovells Pond, Cotuit

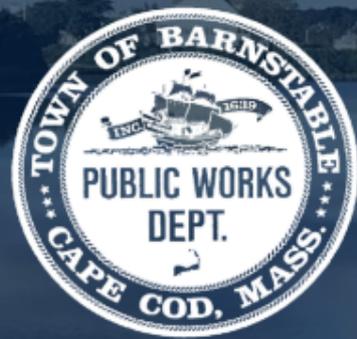
Estuaries Monitoring

- Summer 2023 Estuaries Sampling has resumed
 - The third of four rounds of sampling was completed
 - The fourth round of sampling is scheduled for August 21st and 22nd

Ponds and Lakes Monitoring and Management Plan Program

- Lovells Pond Nutrient Diagnostic Assessment & Management Plan report anticipated Fall 2023
- Conservation Commission hearing for Long Pond Marstons Mills Floating Treatment Wetland Pilot Study Notice of Intent – COMPLETE
 - Deployment anticipated for Spring 2024







Resources

Route 28 West Sewer Expansion Project

Project Status: Construction anticipated to commence in 2025

Route 28 West Sewer Expansion Project (Red)

Preliminary design

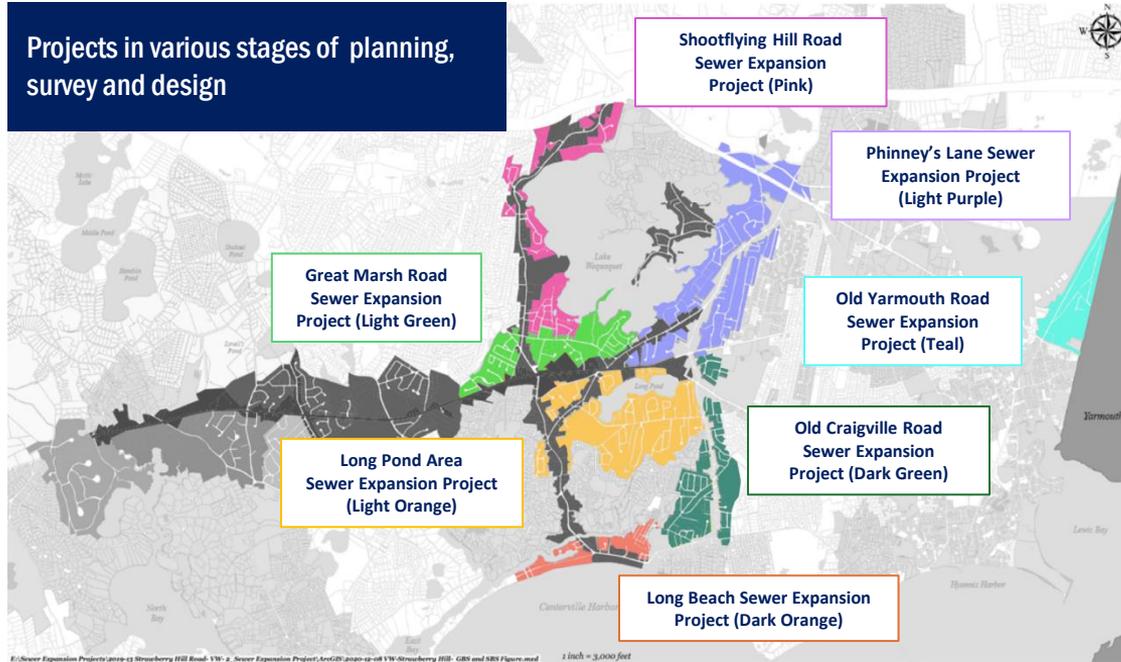
Extends sewer on Route 28 from Phinney's Lane to Route 149

Project Details:

- Preliminary design continues
- Reviewing sewer alignments and continuing efforts to site pump station locations and associated easement options



Additional Sewer Expansion Projects in Design



Phinney's Lane Neighborhood Project:

- Internal design team has completed 30% design
- Continuing private roadway utility easement takings and siting of sewer pump stations
- Construction anticipated to commence in 2025

Old Craigville Road, Old Yarmouth Road & Shootflying Hill Road Projects

- Survey efforts ongoing
- Construction anticipated to commence in 2026 (Old Craigville), 2026 (Old Yarmouth) and 2027 (Shootflying Hill)

Long Pond Area Project

- Survey complete & design on-going
- Construction anticipated to commence in 2027

Long Beach and Great Marsh Road Projects

- Preliminary design funding proposed in FY24 Capital Budget
- Construction anticipated to commence in 2027 (Long Beach) and 2028 (Great Marsh)



Vineyard Wind Project



Project Status: Duct bank installation and cable pulling complete

Remaining work:

- Cable splicing and testing along the project route
- Requires single-lane alternating traffic
- Will resume testing after Labor Day

Anticipated final paving schedule of disturbed roadways:

- Fall 2023:
 - Attucks Lane – scheduling in progress
 - Strawberry Hill Road (Pine Street to Route 28)
 - Phinney's Lane
 - Wequaquet Lane

