

Water Resources Management Update

Barnstable Town Council

October 24, 2024

Town Hall Hearing Room



Town of Barnstable
Department of Public Works



CWMP Regulatory Compliance

Watershed Permit

- Submitted on September 1, 2023, with the request for a Watershed Permit covering the entire Town of Barnstable, and to remain on the previously approved 30-year implementation schedule.
- Completed MassDEP Administrative Review on August 1, 2024.
- Technical Review meeting held with MassDEP on September 16, 2024.

Five-Year Adaptive Management Plan Update

- A Comprehensive Wastewater Management Plan (CWMP) Ad Hoc Advisory Committee was established by Town Council on September 5, 2024.
- The first meeting of the committee was held on October 22, 2024, and is available on Barnstable Government Access.
- This Committee will be instrumental in preparing policy and adaptive management recommendations to be presented as part of the five-year update

Notice of Project Change (NPC) #2 & #3

- Submitted to the Office of Energy and Environmental Affairs on August 7, 2024 (#2) and August 23, 2024 (#3)
- Received Certificate of the Secretary of Energy and Environmental Affairs on September 30, 2024
- NPC #2 adds 65 parcels not originally included in the CWMP.
- NPC #3 provided additional details on upgrades to the Water Pollution Control Facility

Strawberry Hill Road Sewer Expansion Project

Project Status: Connections Ongoing;
151 parcels eligible.

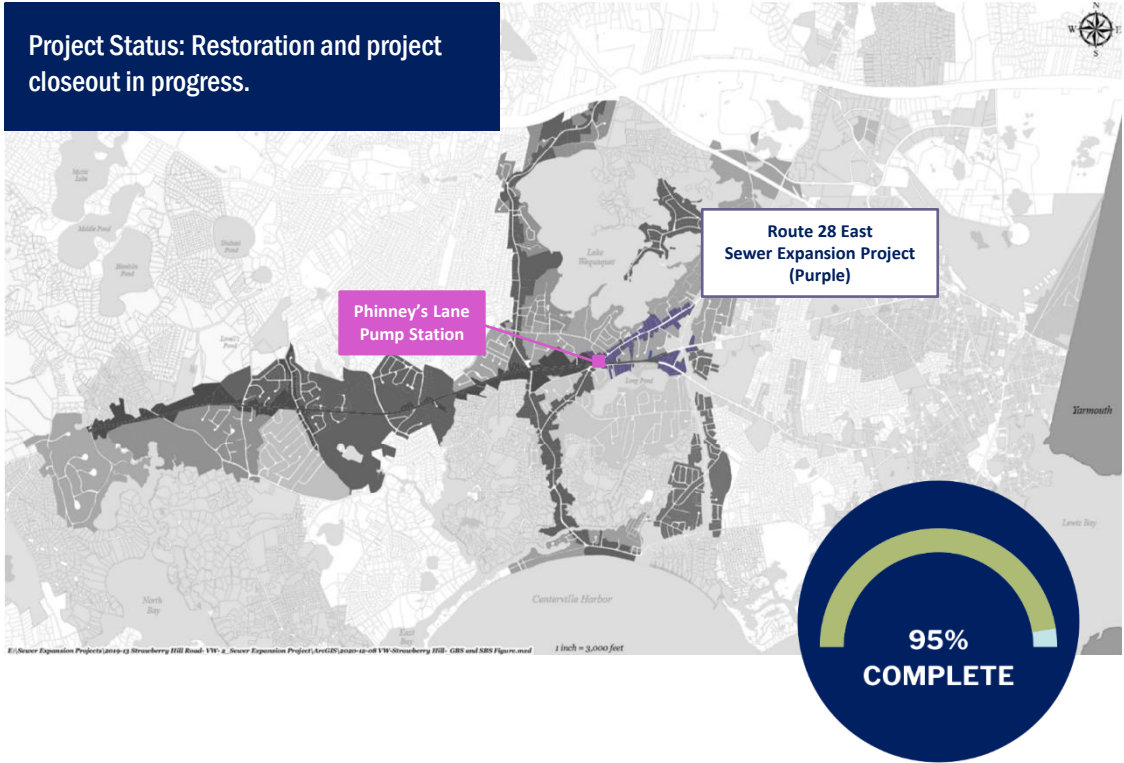
Strawberry Hill Road
Sewer Expansion Project
(Green)

COMPLETE
CONNECTIONS
AVAILABLE

Status: Project Closeout

- Contractor is working through remaining project punch list items
- Sewer Connections are on-going
 - 151 parcels (220 individual dwelling units) eligible for connection
 - As of the date of this report:
 - 42 sewer connections completed
 - 26 active sewer connection permits open and in review, preparing for construction and inspection

Route 28 East Sewer Expansion Project



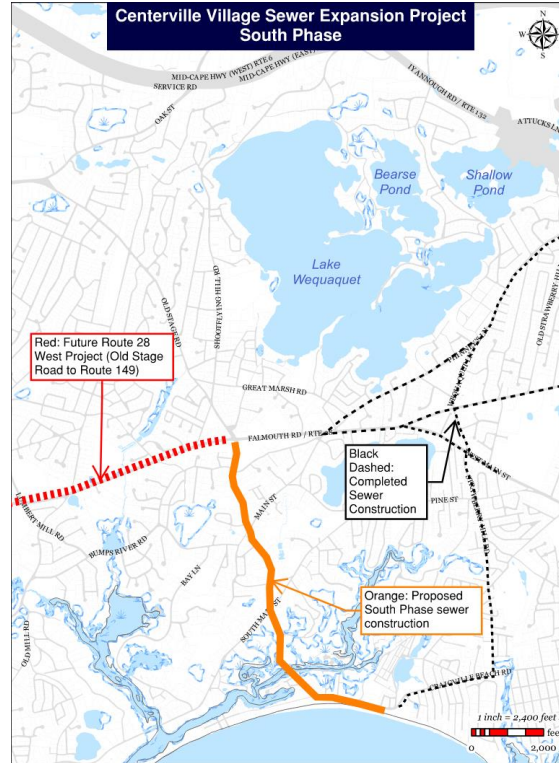
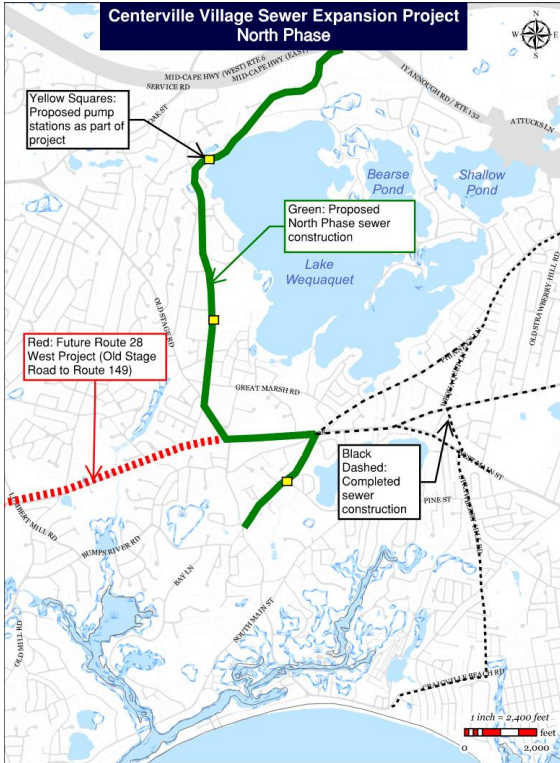
Status: Project Closeout

- Contractor is working through remaining project punch list items
- Sewer connections anticipated to be available by the end of the calendar year
- Communications cadence will follow the same format utilized for the Strawberry Hill Road Project:
 - *Project Closeout Letter* – distributed by DPW
 - *Estimated Assessment* – to be distributed by Treasurer/Tax Collector
 - *Notice of Sewer Hook-up* – to be distributed by Health Division, sent via Certified Mail
 - *Final Sewer Assessment* – to be distributed by Treasurer/Tax Collector

Phinney's Lane Pump Station:

- Testing and punch list ongoing.

Centerville Village Sewer Expansion Project



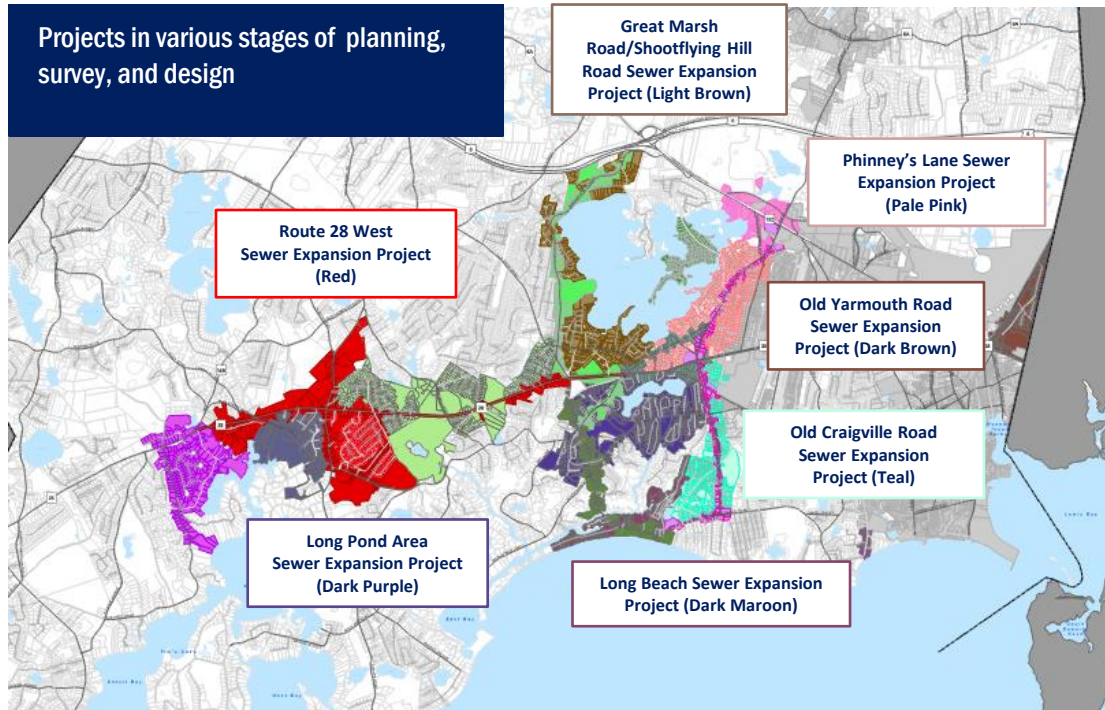
North Phase:

- Contract has been awarded to CC Construction
- Property owner outreach has commenced
 - Pre-Construction Project Notification Mailer distributed via Certified Mail
 - Public Informational Meeting held on Tuesday, October 1, 2024, 6:00PM, at the Barnstable Adult Community Center
 - Meeting is available to view through Barnstable Government Access
- Construction anticipated to begin before the end of the year.
- Scheduled to be completed in Spring 2027.
- Pre-Construction meeting at end of October, anticipate receiving details & schedule.

South Phase:

- Continuing to advance design
- Construction anticipated to commence in Fall 2025

Additional Sewer Expansion Projects In Design



Route 28 West

- 50% design plan review completed
- SRF Loan Application Submitted
- Private road utility easement taking secured at 10/10 Town Council meeting.
- Construction anticipated to commence in Fall 2025

Phinney's Lane Neighborhoods

- Advancing to final design, reviewing designer consultant proposals
- Third round of private road utility easement taking courtesy notifications distributed
- Construction anticipated to commence in 2026

Long Pond Area and Long Beach Road Projects

- Preliminary design and survey on-going
- Construction anticipated to commence in 2027

Great Marsh Road/Shootflying Hill Road Neighborhoods

- 75% survey plan received and in review
- Construction anticipated to commence in 2028

Old Yarmouth Road Project

- Survey complete & preliminary design on-going
- Construction anticipated to commence in 2028

Old Craigville Road Project

- Survey complete & preliminary design on-going
- Construction anticipated to commence in 2030

720 Main Street Pump Station Replacement Project

Project Details:

- Part of the Town's Sewer Pump Station Rehabilitation Program
 - Will address capacity concerns within the Town's Growth Incentive Zone (GIZ) as well as replace aging infrastructure

Pump Station Construction:

- On-site excavation continues
 - On-site work hours: 7:00AM – 4:00PM
 - Structure is advancing above ground, masonry walls in place, building expected to be weather-tight by December

In-Road Sewer Construction:

- In-road sewer construction to resume late Fall (tentatively November), to include:
 - Dumont Drive connection into pump station
 - South Street @ Sea Street connection
 - Sewer tie-ins on Main Street
- Construction anticipated to be completed in Spring 2025
- Project remains on schedule and on budget



Water Pollution Control Facility

Solids Processing Facility Upgrades

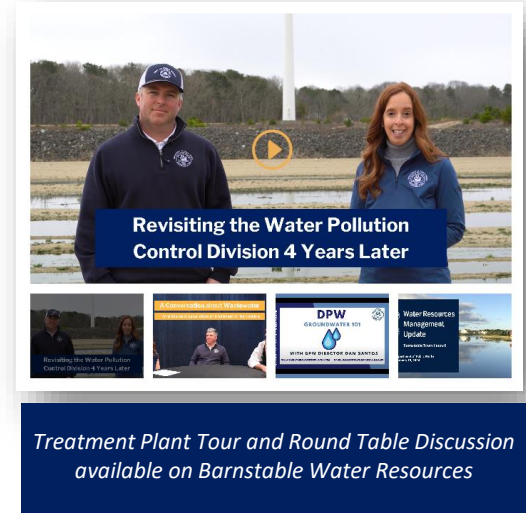
- Project is complete and being closed out.

Nitrogen Removal and Headworks Improvements

- #1 ranked project in 2024 Draft Clean Water Fund Intended Use Plan (IUP)
 - Appropriation and Loan Order 2024-112 for funding the Water Pollution Control Facility Upgrades Project on April 25, 2024
- 60% design review complete
- MBR Manufacturer Committee has recommended Veolia Zeeweed MBR
- Construction anticipated to commence in Fall 2025
- SRF Loan Application submitted

Effluent Disposal Evaluation

- Water Reuse and Disposal Alternatives Analysis in progress with CDM Smith
- Hosting monthly meetings with MassDEP



Straightway & Hyannisport Water Treatment Facilities Improvements

Project Purpose

- Maximize the permitted capacity of the Hyannis Water System
- Restore the amount of water that the wells can supply to permitted capacity
- Allow the water treatment facility to operate year-round
- Improve the water treatment process to further improve water quality
- Protect the wells and buildings from flooding
- Improve overall system resiliency

Project Status & Next Steps

- MEPA Virtual Site Visit held on Wednesday 10/3
 - All materials have been available in English, Spanish, and Portuguese
- SRF Loan Application submitted
- Project page available on Town of Barnstable website, under DPW > Water Supply:
<https://townofbarnstable.us/Departments/watersupply/Straightway-Water-Treatment-Plant.asp>
- Anticipated Schedule:
 - Fall 2024 – Winter 2025: Final design and permit approvals
 - Spring – Summer 2025: Bidding and contract award
 - Fall 2025: Anticipated construction start; approximately 2-year duration

Water Quality

Clamshell Cove Road and Old Shore Road, Cotuit Stormwater Improvement Projects

- Natural Resources Conservation Service (NRCS) grant to fund drainage improvements to reduce stormwater
- Design plans for both sites are available for review at <https://barnstablewaterresources.com/stormwater/>
- Public information meeting was held on September 30, 2024
- Construction anticipated to begin Fall 2025

Cyanobacteria Monitoring Program

- Scheduled sampling concluded on September 23.
- Additional sampling will continue for posted ponds through October.
- Water Quality Updates continue to be posted on BarnstableWaterResources.com, via the MyBarnstable App, and on social media

Long Pond Marstons Mills, Floating Treatment Wetland Pilot Project

- UMass Dartmouth's School for Marine Science & Technology (SMAST) collected plant biomass sampling on September 23, 2024.
- Samples will continue to be collected in Spring 2025 and Fall 2025 to track and determine phosphorous uptake.
- A final report is due to the conservation in 2026.

