

# Water Resources Management Update

Barnstable Town Council

September 19, 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.
  - Preparing responses to minor comments.

## Five-Year Adaptive Management Plan Update

- In accordance with the Cape Cod Commission's 208 Plan Consistency Determination and MEPA approval, the Town of Barnstable continues to prepare for the submittal of its Five Year Adaptive Management Plan Update, which is due at the end of the 2025 calendar year.
- A Comprehensive Wastewater Management Plan (CWMP) Ad Hoc Advisory Committee was established by Town Council on September 5, 2024.
- This Committee will be instrumental in preparing policy and adaptive management recommendations to be presented as part of the five-year update

# FY2024 CWMP Annual Report

## FY2024 CWMP Annual Report

- Submitted to the Cape Cod Commission on September 4, 2024
- Available for download via the Reports & Documents page of Barnstable Water Resources:  
<https://barnstablewaterresources.com/reports-documents/>
- FY2024 Highlights include:
  - Strawberry Hill Road Sewer Expansion Project – substantial completion reached on-time and on-budget.
  - Route 28 East Sewer Expansion Project – substantial completion reached on-time and on-budget.
  - \$109 Million capital appropriation for upgrades to the Barnstable Water Pollution Control Division’s treatment plant approved by Town Council in April 2024.
  - \$59.65 Million capital appropriation to fund construction of the Route 28 West Sewer Expansion Project, the backbone of westward expansion, approved by Town Council in April 2024.
  - Published Homeowner’s Sewer Connection Guide in June 2024, over 700 downloads in its first 3-months



# Strawberry Hill Road Sewer Expansion Project

Project Status: First connections have commenced; 151 parcels eligible.

Strawberry Hill Road  
Sewer Expansion Project  
(Green)

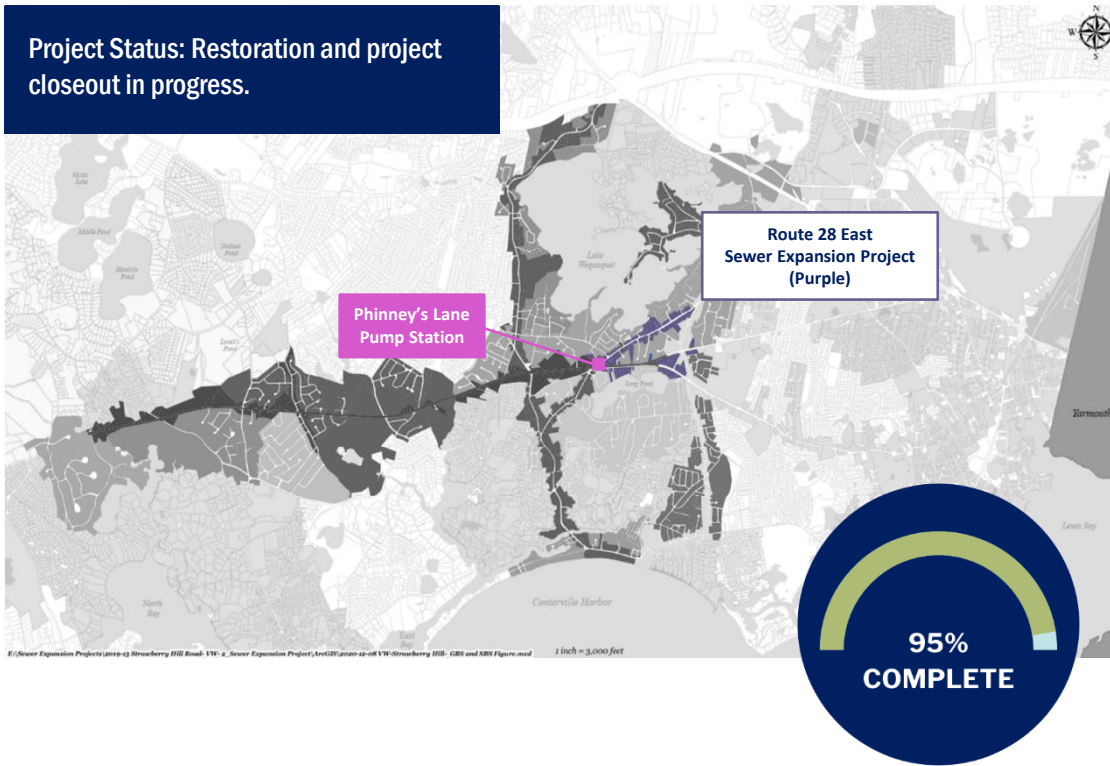
COMPLETE  
CONNECTIONS  
AVAILABLE

## Status: Project Closeout

- Contractor is working through remaining project punch list items
- First connections for a portion of the project route have commenced
  - 151 parcels (220 individual dwelling units) eligible for connection
  - As of the date of this report:
    - 15 sewer connections completed
    - 22 active sewer connection permits open and in review, preparing for construction and inspection

# Route 28 East Sewer Expansion Project

Project Status: Restoration and project closeout in progress.



## Status: Project Closeout

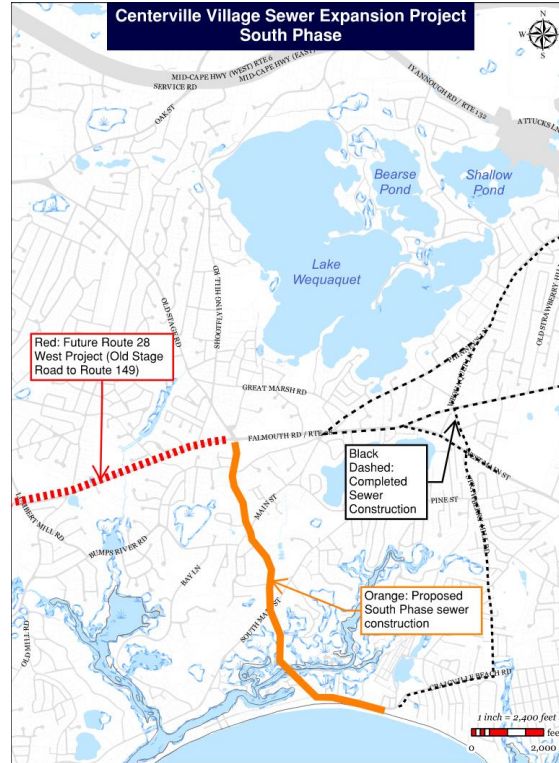
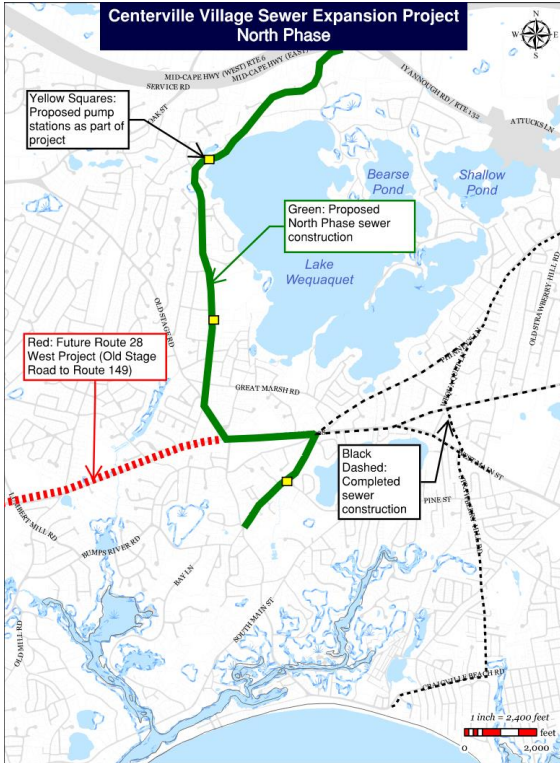
- Contractor is working through remaining project punch list items
- Sewer connections anticipated to be available by the end of the calendar year
- Communications cadence will follow the same format utilized for the Strawberry Hill Road Project:
  - *Project Closeout Letter* – distributed by DPW
  - *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 start-up on-going



# Centerville Village Sewer Expansion Project



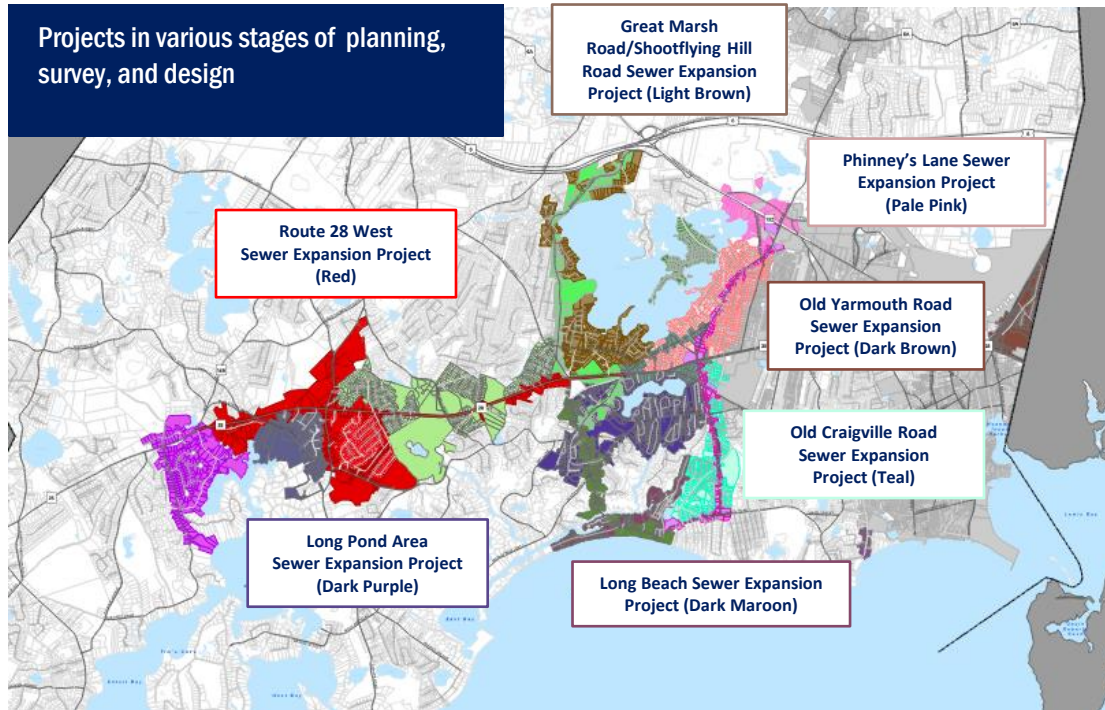
## North Phase:

- Working with SRF and CC Construction on project award
- Property owner outreach has commenced
  - Pre-Construction Project Notification Mailer distributed via Certified Mail, included:
    - Project Overview & Project Map
    - Sewer Connection Form & Instructions (allows property owner to provide details relevant to sewer service lateral stub placement at their property line)
    - FAQs
    - Right-of-Way Notice
  - Public Informational Meeting scheduled for Tuesday, October 1, 2024, 6:00PM, at the Barnstable Adult Community Center
    - Meeting will be recorded, available via Barnstable Government Access, and posted to Barnstable Water Resources

## South Phase:

- Continuing to advance design and efforts to site pump stations
- Construction tentatively anticipated for 2025

# Additional Sewer Expansion Projects In Design



## Route 28 West

- 50% design plan review completed
- Private road utility easement taking courtesy notifications distributed (Old East Osterville Road and Marquand Drive)
- Construction anticipated to commence in 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 & 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 drawings have been received and are under review
- MBR Manufacturer Committee has recommended Veolia Zeeweed MBR
- Construction anticipated to commence in Fall 2025

## 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

- Public outreach process is on-going, includes:
  - Mailings to abutters within 1-mile buffer of the project area
  - Public informational meeting held on August 6, 2024; included translation services
  - All materials have been available in English, Spanish, and Portuguese
  - Project page available on Town of Barnstable website, under DPW > Water Supply:  
<https://townofbarnstable.us/Departments/watersupply/Straightway-Water-Treatment-Plant.asp>
- Anticipated Schedule:
  - September 3, 2024: Filing Environmental Notification Form / Environmental Impact Report filed with MEPA
  - September 11, 2024, Public Environmental Review placed in Cape Cod Times, public comment period now open
  - 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
- Initial design plans for both sites are ready for review
- Public information meeting scheduled on September 30, 2024, 6:00PM, at Cotuit Library

## Cyanobacteria Monitoring Program

- Fall seasonal sampling will conclude at the end of September
- Dependent on results, will issue and/or remove water quality alerts as appropriate
- Water Quality Updates continue to be posted on [BarnstableWaterResources.com](http://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) is scheduled to collect plant biomass samples during the week of September 23, 2024
- Samples will continue to be collected in Spring 2025 and Fall 2025 to track and determine phosphorous uptake

