



# Water Resources Management Update

**Barnstable Town Council**

**Department of Public Works  
September 21, 2023**



# Comprehensive Wastewater Management Plan

## Recent Initiatives

### 314 CMR 21.00 WP95 – Watershed Permit Application

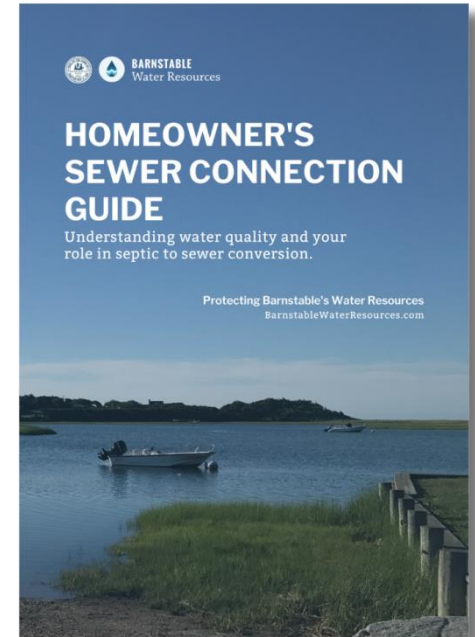
- Submitted on September 1, 2023
- Current Status: In Review

### FY23 CWMP Annual Report

- Data submission to Cape Cod Commission
- Report will be available on [BarnstableWaterResources.com](https://BarnstableWaterResources.com)

### Homeowner's Sewer Connection Guide

- To distribute ahead of first connections



**Project Status: On schedule for completion in late Spring 2024**

Phinney's Lane Pump Station

Route 28 East Sewer Expansion Project (Blue)

40%

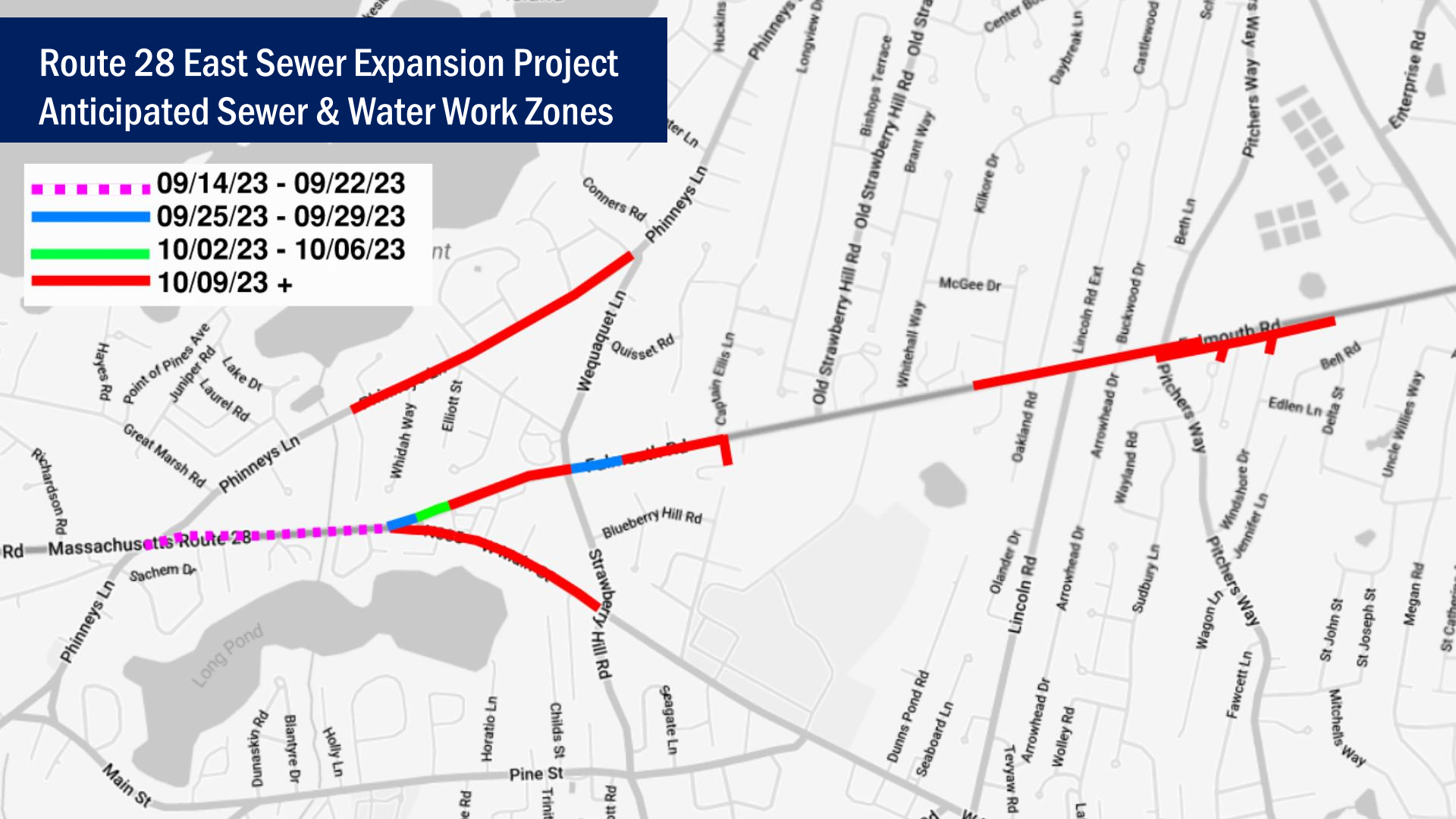
E:\Sewer Expansion Projects\2019-23 Streuherg Hill Road- VW- 2\_ Sewer Expansion Project\ArcGIS\2020-22-08 VW-Streuherg Hill- GIS and NRS Figure.mxd 1 inch = 3,000 feet



- In-road construction has resumed:
  - 9/5 (Phinney's Lane) required closure of Phinney's Lane from Route 28 to Great Marsh Road - COMPLETE
  - 9/14 (Route 28) requires single-direction detour of westbound traffic on Route 28 – IN PROGRESS
  - 9/25 (Route 28) requires single-direction detour of eastbound traffic, utilizing West Main Street
- Contractor plans to have two crews on Route 28 throughout the Fall

- All below grade sewer work is complete

# Route 28 East Sewer Expansion Project Anticipated Sewer & Water Work Zones



# 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 late September/early October
- First connections anticipated Spring 2024

## Restoration:

- Paving Phinney's Lane from Wequaquet Lane to Route 132 anticipated in November
  - Vineyard Wind completing testing along the project route
  - Intend to keep Phinney's Lane open while detouring traffic on Route 28

## Strawberry Hill Road Sewer Pump Station:

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



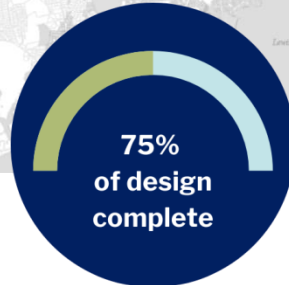


# Centerville Village Sewer Expansion Project

**Project Status:** Construction anticipated to commence in 2024

Centerville Village  
Sewer Expansion  
Project (Purple)

E:\Sewer Expansion Projects\2019-23 Strawberry Hill Road-VW-4\_Sewer Expansion Project\2019-23-08 VW-Strawberry Hill - GIS and SRB Figure.mxd 1 inch = 3,000 feet



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

## Project Details:

- Completing 75% sewer design plan review
- 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](http://BarnstableWaterResources.com)



# Route 28 West Sewer Expansion Project

**Project Status:** Construction anticipated to commence in 2025

**Route 28 West  
Sewer Expansion  
Project (Red)**

**Preliminary  
design**

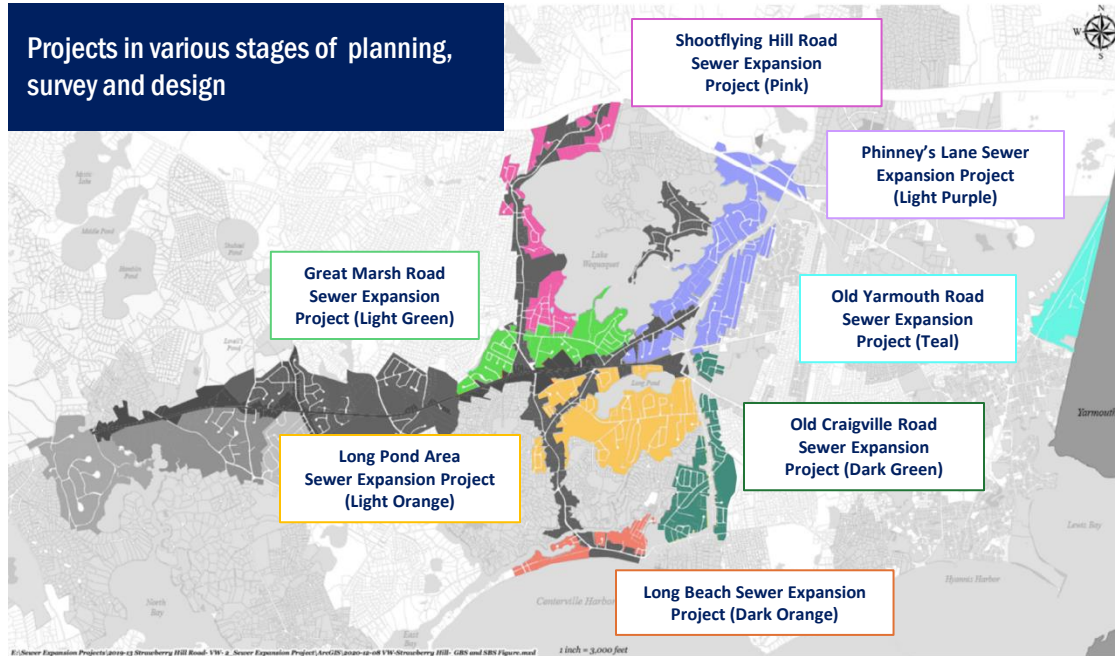
**Extends sewer on Route 28 from  
Phinney's Lane to Route 149**

## **Project Details:**

- Preliminary design and survey 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; anticipated completion October 2023 – January 2024
- 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)





# Water Pollution Control Facility

## Solids Processing Facility Upgrades

- Installed septic receiving station pipework
- 4 out of 4 sludge storage tanks have been rehabilitated
- Septage grit pump #1 installed
- Pipe painting in progress
- SCADA automation work has begun
- anticipated to reach substantial completion by January 2024

## 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



*Solids Processing Facility pipe painting in progress*

# Water Quality Monitoring

## Cyanobacteria Monitoring

- On-going monitoring at 27 ponds, will continue through September
  - Public Health Advisory at Parker Pond, Osterville

## Estuaries Monitoring

- Summer 2023 Estuaries Sampling has come to a close

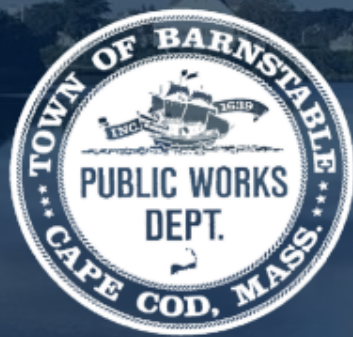
## Ponds and Lakes Monitoring and Management Plan Program

- Lovells Pond Nutrient Diagnostic Assessment & Management Plan report I progress
  - Anticipated late Fall 2023

## Mystic Lake Alum Treatment

- The Town has been engaging with potential consultants to complete the permitting phase

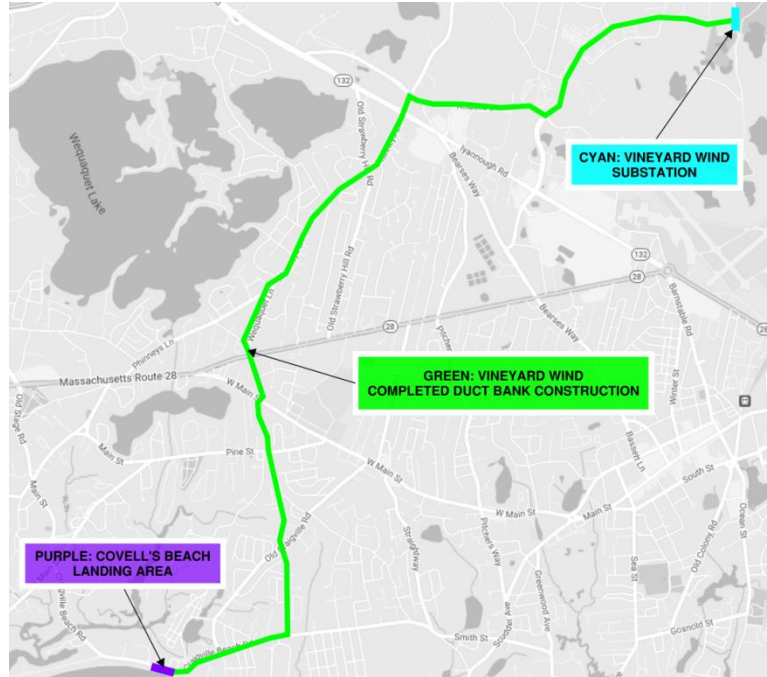




A serene landscape featuring a calm body of water that reflects the sky and distant houses. The sky is filled with soft, white clouds, and the water is still, creating a clear reflection. In the background, several houses with light-colored walls and dark roofs are visible, nestled among trees. The overall scene is peaceful and scenic.

# Resources

# 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
- Testing has resumed as of 9/5/23

## Anticipated final paving schedule of disturbed roadways:

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

