



Water Resources Management Update

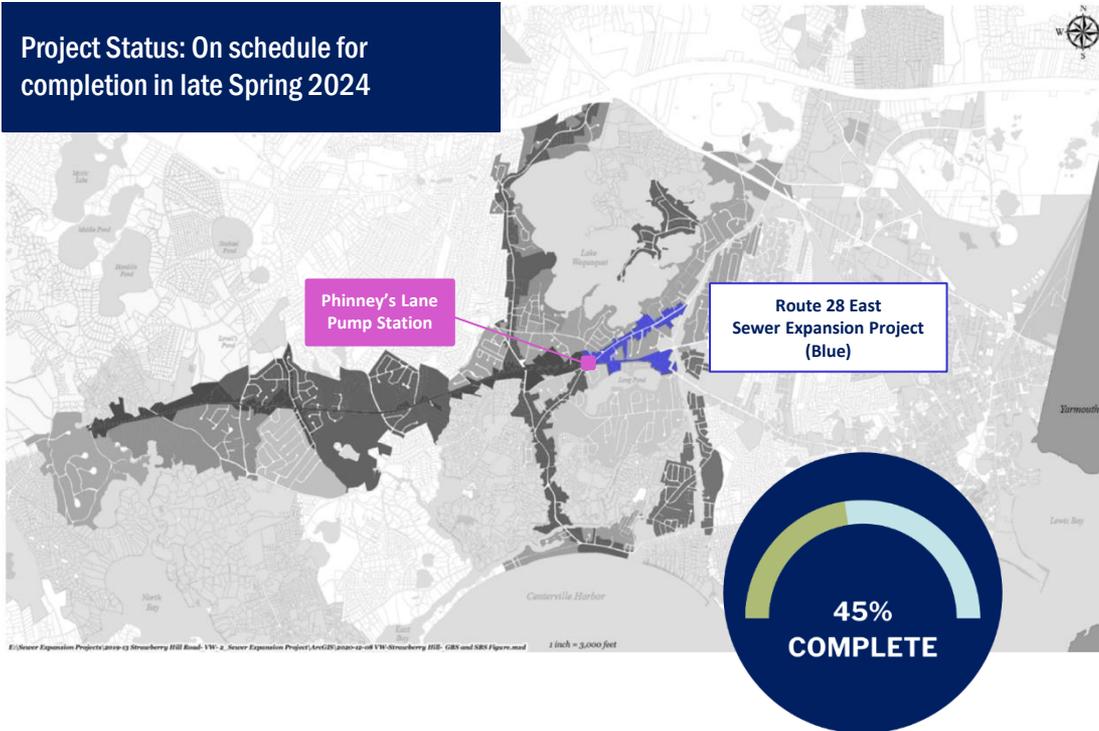
Barnstable Town Council

**Department of Public Works
November 16, 2023**



Route 28 East Sewer Expansion Project

Project Status: On schedule for completion in late Spring 2024



Project Status:

- Contractor continues to operate with two crews on Route 28:
 - Sewer construction completed this week
 - Water main work in progress



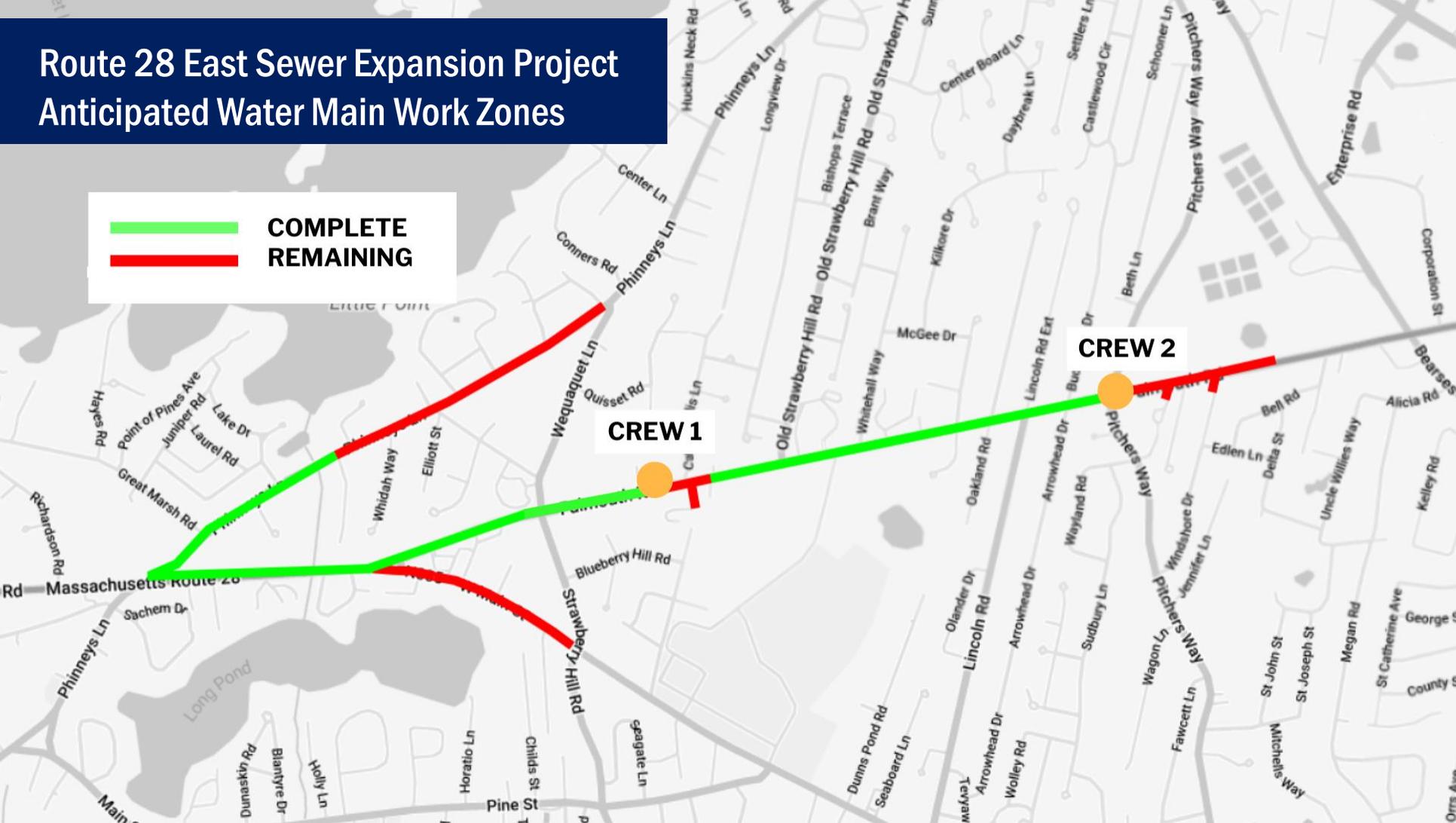
Phinney's Lane Pump Station:

- Roofing continues, exterior walls complete



Route 28 East Sewer Expansion Project Anticipated Water Main Work Zones

 COMPLETE
 REMAINING



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 began 10/6/23, approximately 80% complete
- First connections anticipated Spring 2024
 - Finalizing project communications and Homeowners Sewer Connection Guide

Restoration:

- Paving Pinney's Lane from Attucks Lane to Wequaquet Lane in progress
 - Work requires single-lane alternating traffic on Pinney's Lane

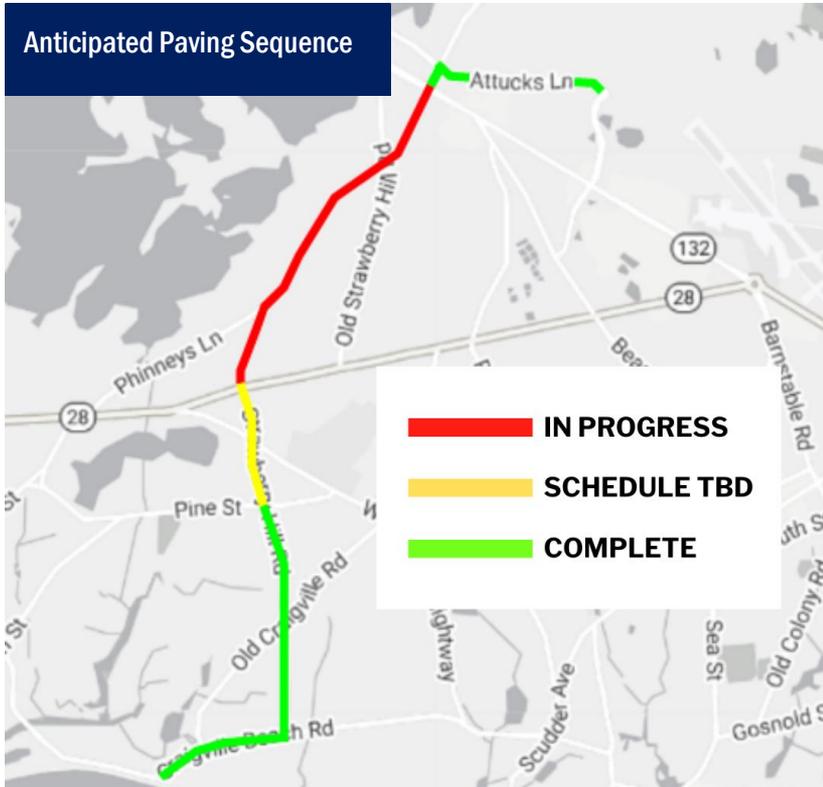
Strawberry Hill Road Sewer Pump Station:

- Generator and pump station testing and start-ups in progress



Strawberry Hill Road Sewer Expansion Project

Paving Restoration Efforts



Anticipated Paving Sequence:

- Final paving of the Vineyard Wind project route continues to progress in sections:
 - Red: Restoration in progress on Phinney's Lane, from Route 132 to Wequaquet Lane
 - Yellow: Restoration schedule to be determined on Phinney's Lane, from Route 28 to Pine Street
 - Green: Completed roadways include Attucks Lane, Strawberry Hill Road from Pine Street to Craigville Beach Road, and Craigville Beach Road

Centerville Village Sewer Expansion Project

Project Status: Construction anticipated to commence in 2024

Centerville Village Sewer Expansion Project (Purple)

E:\Sewer Expansion Projects\1219-23 Strawberry Hill Road_VW_x_Sewer Expansion Project\Arch\1219-23-08 VW-Strawberry Hill_CDR and SRP Figure.mxd 1 inch = 3,000 feet

75%
of design
complete

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

Project Details:

- Completing 75% sewer design plan and construction specification review
- Continuing efforts to site pump station locations and associated easement options



Route 28 West Sewer Expansion Project

Project Status: Construction anticipated to commence in 2025



Preliminary design

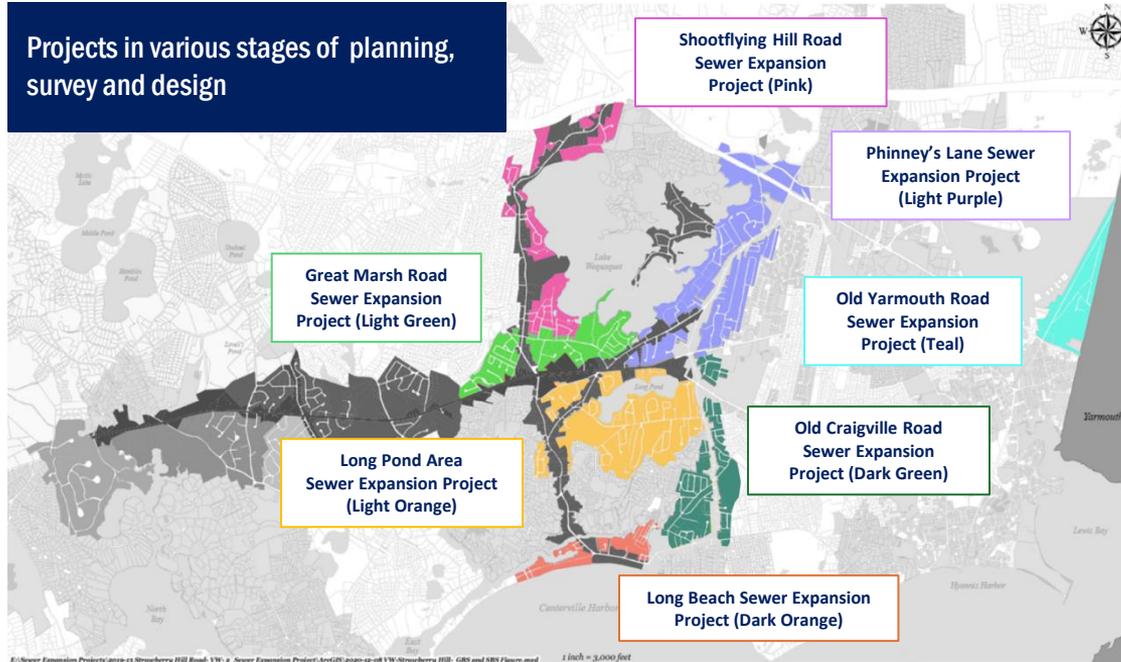
Extends sewer on Route 28 from Phinney's Lane to Route 149

Project Details:

- Preliminary design and survey continues
- Soil borings in progress on the following Town Roads:
 - Falmouth Road, Osterville-West Barnstable Road, Bumps River Road, Oldham Road, and Old East Osterville Road
- 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

- All 5 blowers used for mixing sludge tanks have been replaced
- New grit pumps installed
- SCADA automation and control work ongoing
- Odor Control Systems anticipated to be functional by end of calendar year
- Substantial project completion anticipated February 2024

Nitrogen Removal and Headworks Improvements

- Preliminary design phase continues, anticipate moving into final design over the next few months

Effluent Disposal Evaluation

- Retained CDM Smith for next phase of work
- Water Reuse and Disposal Alternatives Analysis in progress



New blowers used for mixing sludge tanks



Water Quality

Water Quality Monitoring

- 2023 Cyanobacteria Monitoring - COMPLETE
 - Final test result indicated existing cyanobacteria biomass at Parker Pond, Osterville
 - As a result, Parker Pond will remain in a Pet Advisory through the winter, sampling will resume Spring 2024

Association to Preserve Cape Cod (APCC)

Boat Ramps Project – Shubael Pond

- Submitted a Letter of Support to APCC for grant to advance the Shubael Pond boat ramp stormwater improvements through design
 - Anticipate a public participation meeting Spring 2024
 - For more information on the project visit:
<https://apcc.org/stormwater-management-at-public-boat-ramps/>



Shubael Pond: APCC Boat Ramp Project will work to address stormwater management



