

Water Resources Management Update

Barnstable Town Council

March 21, 2024

Town Hall Hearing Room



Town of Barnstable
Department of Public Works



Strawberry Hill Road Sewer Expansion Project

Project Status: First connections anticipated Spring 2024.

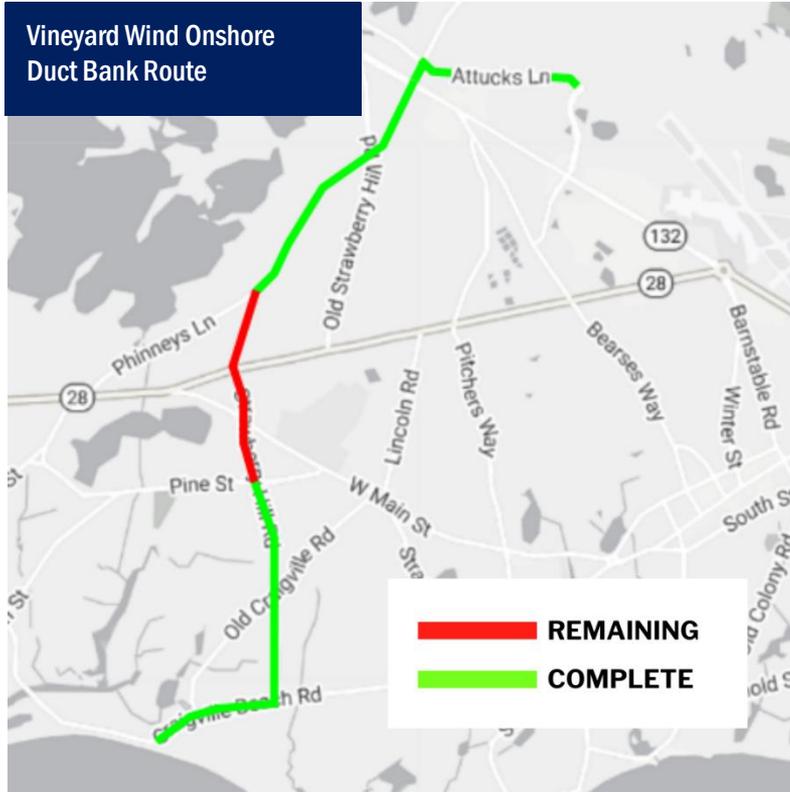
Strawberry Hill Road Sewer Expansion Project (Green)

95% COMPLETE

Project Closeout:

- Working through project punch list and closeout
- Inspection and testing found a repair was needed to the pipe entering the Strawberry Hill Road Pump Station
 - Working to schedule and coordinate activity, which will occur onsite
- First connections for a portion of the project route anticipated Spring 2024
 - Phinney's Lane from Route 132 to Static Lane
 - Wequaquet Lane from Quisset Road to Route 28
 - Strawberry Hill Road from Route 28 to Craigville Beach Road
 - West Main Street from Strawberry Hill Road to Old Strawberry Hill Road
 - Craigville Beach Road from Strawberry Hill Road to Jackson Avenue

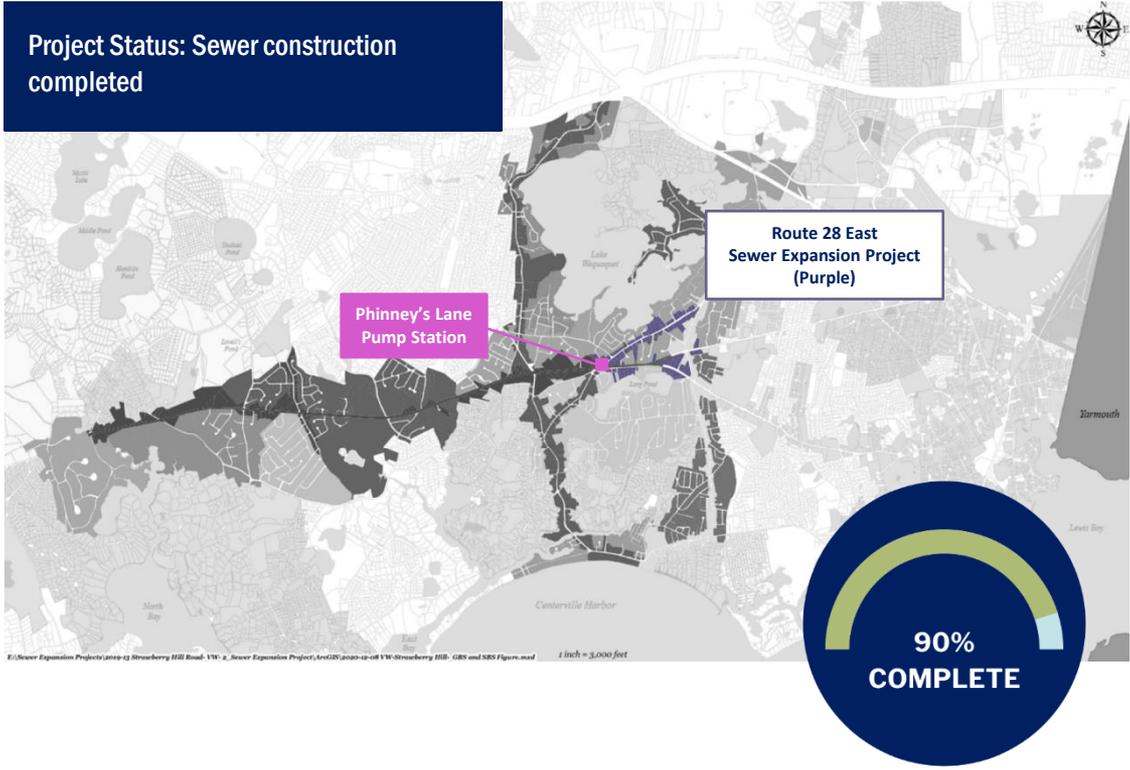
Vineyard Wind Remaining Roadway Restoration



Paving Restoration:

- Final restoration managed by Vineyard Wind as part of the Host Community Agreement
- Remaining roadways include:
 - Wequaquet Lane
 - Strawberry Hill Road, from Route 28 to Pine Street
 - Route 28 / Strawberry Hill Road intersection
 - West Main Street / Strawberry Hill Road intersection
- Lawrence Lynch intends to commence paving operations on Monday, 3/25/24
 - Multi-week effort including milling, leveling, paving and structure adjustments
 - Traffic management plans are in review
 - Public notification will include media release, social media, and MyBarnstable mobile app notifications

Route 28 East Sewer Expansion Project



Project Closeout:

- Sewer construction has been completed
- Testing along the project route is on-going
- Drainage work anticipated on Phinney's Lane in the coming weeks
- Developing project punch list for closeout
- Paving restoration anticipated to commence late Spring 2024
- Sewer connections anticipated to be available by the end of the calendar year

Phinney's Lane Pump Station:

- Asphalt driveway to be completed this month
- Anticipated completion Spring 2024

Centerville Village Sewer Expansion Project

Project Status: Preparing bid schedule.
Construction anticipated to commence in
2024

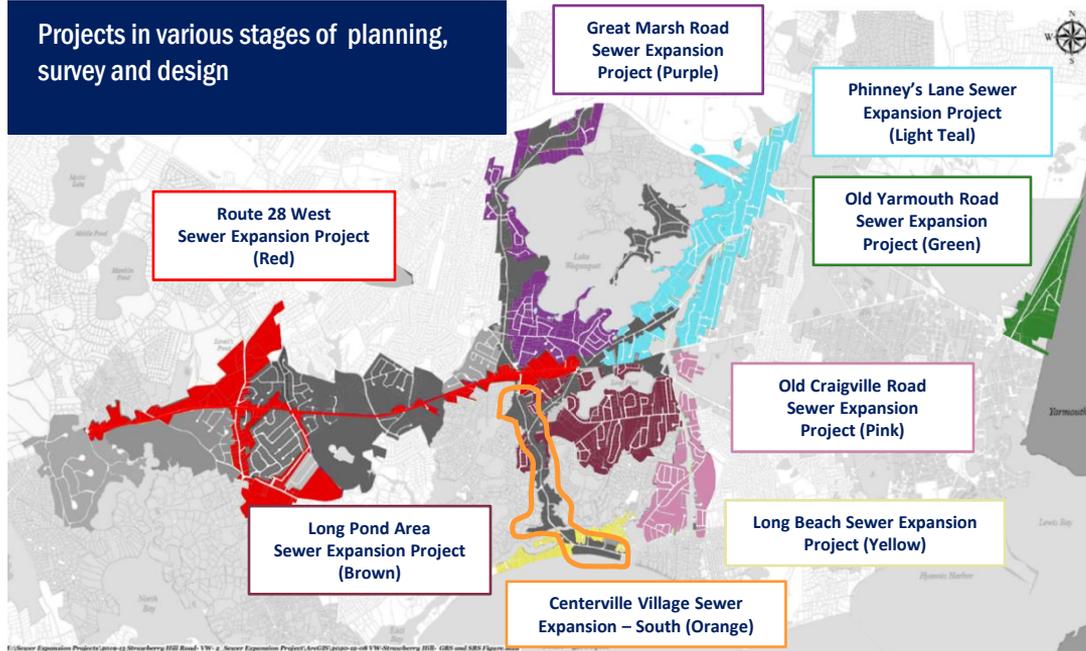


Project Details:

- Appropriation of sewer construction funds for Northern Phase approved at 3/7/24 Town Council meeting
- Northern Phase includes a portion of Route 28, from Phinney's Lane to Old Stage Road and the Mother's Park Pump Station
- Next steps include:
 - Continue design, efforts to site pump station locations, and associated easement options
 - Securing State Revolving Fund (SRF) funds, which requires construction contract be in place by this summer
 - Bid schedule in development
 - Preparing updated Phase 1 Project Map and anticipated Implementation Schedule

Additional Sewer Expansion Projects In Design

Projects in various stages of planning, survey and design



Route 28 West

- Preliminary design on-going
- Construction anticipated to commence in 2025
- Submitted MassDOT permit application

Phinney's Lane Neighborhoods

- Preliminary design on-going, will look to retain designer to progress to final design
- Continuing private roadway utility easement takings and siting of sewer pump stations
- Construction anticipated to commence in 2026

Great Marsh Road Neighborhoods

- Preliminary design and survey on-going
- Construction anticipated to commence in 2028

Long Pond Area and Long Beach Road Projects

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

Old Yarmouth Road Project

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

Old Craigville Road Project

- Preliminary design and survey on-going
- Construction anticipated to commence in 2030

Centerville Village - South

- Continue to advance design
- Construction schedule TBD

Sewer Connection Communications & Outreach

Inter-Department Coordination

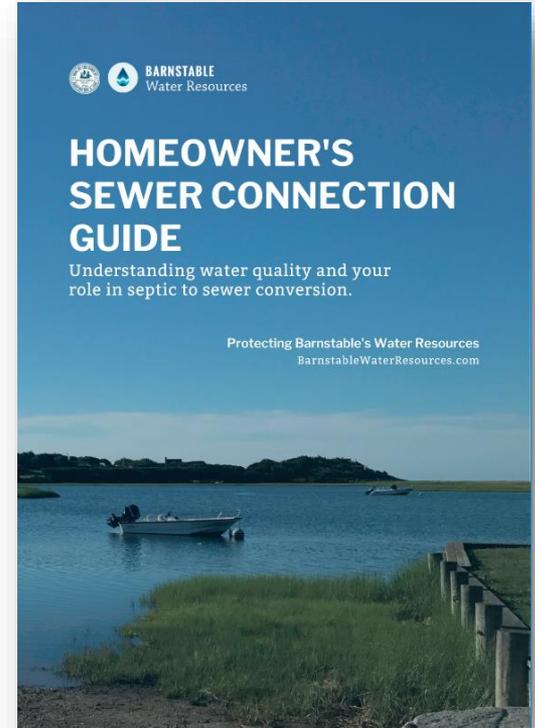
- On-going coordination meetings with Health Department, Finance, and IT
- Dedicated Sewer Connection Program Manager at DPW

Proposed Communications Cadence

- Project closeout notification from DPW
- Sewer connection notification from Health Department
 - To include 6-mo sewer connection policy and abridged version of the Sewer Connection Guide (focused on connection process and financial resources)
 - Full Sewer Connection Guide to be available in print at various Town building locations and available to download via BarnstableWaterResources.com
- Sewer Assessment notification from Treasurer's Office

Upcoming Outreach Meetings

- Understanding Barnstable's Sewer Expansion Plan
 - Tuesday, 3/26/24 at 1:30PM, Barnstable Adult Community Center
- Cape Cod Retirement Living | CWMP Workshop
 - Thursday, 4/11/24 at 9:30AM, Double Tree Hyannis
- A Review of Barnstable's Sewer Connection Handbook
 - Tuesday, 6/4/24 at 1:30PM, Barnstable Adult Community Center



Sewer Connection Financial Support

Cape Cod Aquifund | Barnstable County

- Low-interest betterment loans for the cost of repairing or replacing failed septic systems, upgrading to alternative septic system technologies, as well as connecting to municipal sewers
- Cape Cod Aquifund currently offers 0%, 2%, 4%, and 5%* interest betterment loans
 - **At this time, ONLY new sewer connections are eligible for 0% and 2% interest loans.**
- Well capitalized
- On-going communication with DPW to assist in new sewer connection forecasting
- Contact: aquifund@capecod.gov or 774-330-3010

Massachusetts Tax Relief Bill | Mass.gov

- Title V (Septic) Tax Credit
 - Triples the maximum credit to \$18,000 for full-time, primary residence
 - Increases percentage of eligible expenses from 40% to 60%
 - Allows taxpayers to claim up to \$4,000 in any year, versus previous \$1,500
- Qualified expenses you paid to bring a failed system into full compliance include:
 - An upgraded system
 - An alternative system
 - A shared system
 - Connection to a sewer system



720 Main Street Pump Station Replacement Project

Project Details:

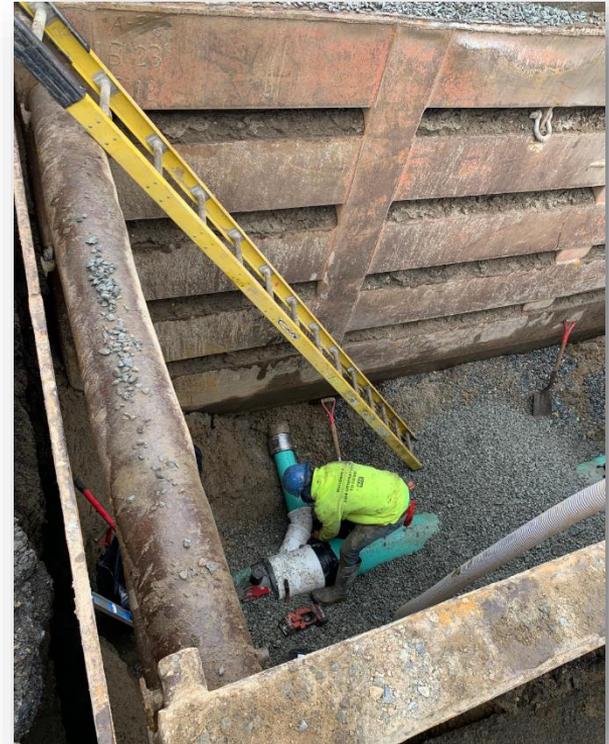
- Part of the Town's Sewer Pump Station Rehabilitation Program
 - Will address capacity concerns within the Town's Growth Incentive Zone (GIZ) as well as replace aging infrastructure

Pump Station Construction:

- Wet-pit, dry-pit style pump station
- Single story concrete masonry walls with cedar shake veneer and asphalt shingle roof
 - Building will house pumps, piping, odor control system, electrical systems, HVAC systems, instrumentation systems, and standby generator
- Pile driving complete, excavation continues
 - On-site work hours: 7:00AM – 4:00PM

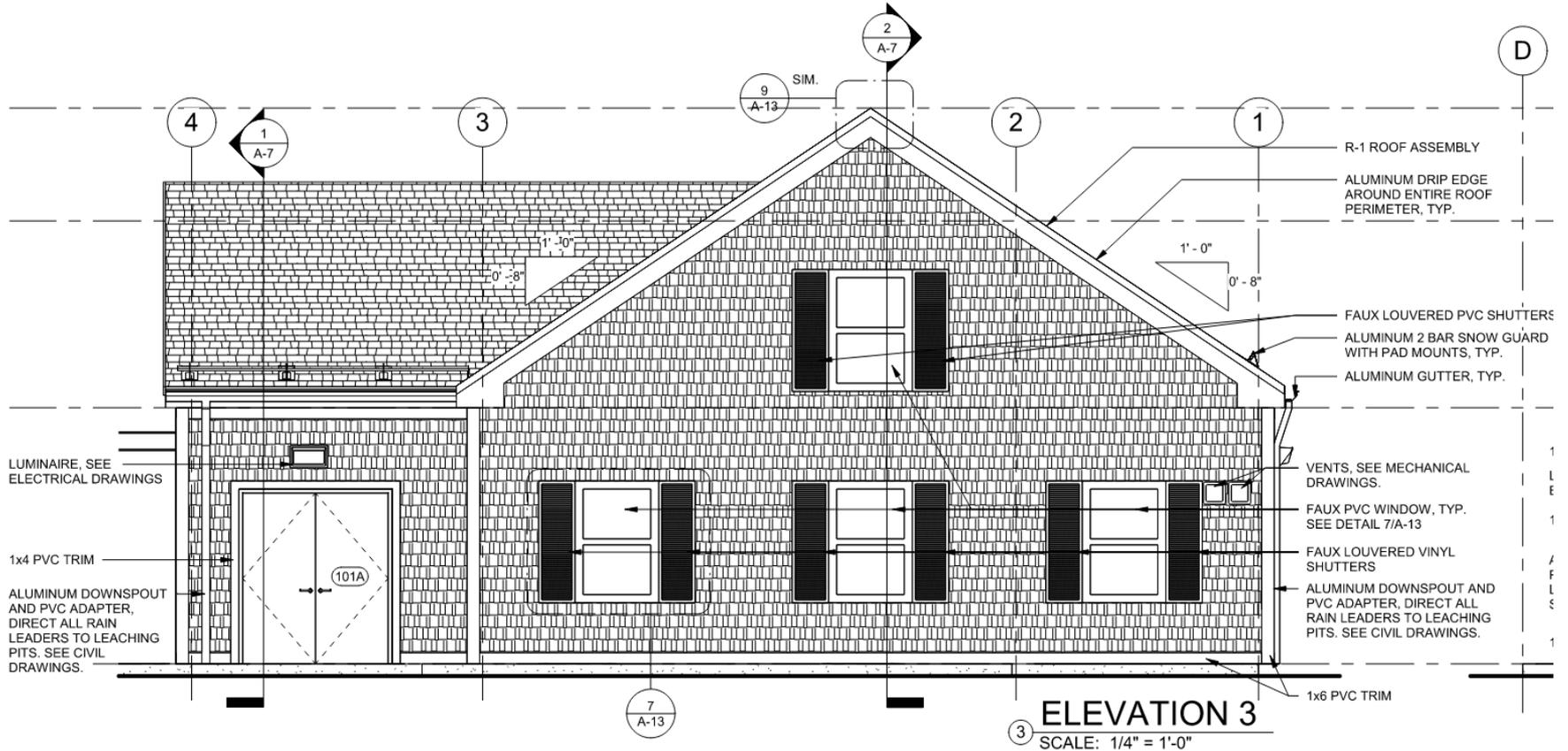
In-Road Sewer Construction:

- Section 1: 725 Main Street to Potter Avenue
 - Approaching Potter Avenue this week
 - Next section will install sewer from Potter Avenue to Newton Street
 - Continued single-direction detour of westbound thru-traffic from Stevens Street to the West End Rotary
 - In-road work hours: 8:30AM – 5:00PM
 - In-road work to conclude for the season prior to Memorial Day Weekend



Sewer installation continues within Main Street, Hyannis

Proposed 725 Main Street Pump Station: Looking South from Main Street



Water Pollution Control Facility

Solids Processing Facility Upgrades

- Substantial project completion expected by end of month
- Next phase of work will include working through project punch list

Nitrogen Removal and Headworks Improvements

- #1 ranked project in 2024 Draft Clean Water Fund Intended Use Plan (IUP)
- Basis of design report in review, moving into final design
- MBR bid applicants under review
- Construction start anticipated Fall 2025

Effluent Disposal Evaluation

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



Solids Processing Facility

Water Quality

APCC Boat Ramps Stormwater Improvement Project – Shubael Pond

- Public meeting Tuesday, 3/26/24 at 2PM via Zoom
- Will review 25% design plans

Municipal Separate Storm Sewer System (MS4) Permit Updates

- Seasonal campaign to remind residents of lawn care best practices
 - Embrace the ‘Cape Cod Lawn’ by reducing or eliminating fertilizers and herbicides
 - Barnstable’s Fertilizer Regulations can be found at: <https://ecode360.com/29942593> – NO fertilizers within 100-feet of a waterway
 - Educational resources highlighting rain gardens, yard waste disposal and more available at stormwater.capecodcommission.org
- Public hearing on the Town’s proposed Stormwater Management and Illicit Discharge Ordinance anticipated on Thursday, 4/4/24.

Long Pond, Marstons Mills Floating Treatment Wetland

- TRC was awarded the project
- Anticipating late April to early May deployment

Mystic Lake, Alum Treatment

- Barnstable Conservation Commission approved the Notice of Intent with special conditions on 3/12/24
- Based on Time of Year Restrictions, the alum treatment is anticipated to be completed after 10/15/24.



