



NANTUCKET TOWN ASSOCIATION MEETING

September 28, 2021, at 4:00 pm
Meeting held by Zoom conferencing

DRAFT MINUTES FOR REVIEW AND APPROVAL

Attendance (Participants as noted by Zoom): Trish Bridier, Barbara Cohen, Mary Anne Easley, Marsha Fader, Frances Karttunen, Mary Longacre, Hillary Rayport (4:32 pm), Lee Saperstein, Anne Terry, Henry Terry, Barbara von der Groeben, Charley Walters, and Paula Williams.

Thanks to the Atheneum, Amy Jenness, for hosting the meeting. which was recorded and the link (good for 30 days) is included here:

Meeting Recording:

https://us02web.zoom.us/rec/share/-EDQhu-UY-2vL8hmUR8-1XN8ENzb0yaRQOy3xWh5QRC7_Hei8vkyV2Tia3N0-7We.9t5lfWuhTEt09jng

Access Passcode: h\$Rd9U\$M

Guest: David Gray, Director, Sewer Department, and Frank Ayotte, Hazen and Sawyer

I. Call the September 28, 2021, Nantucket Town Association Meeting to Order.

President Henry Terry called the meeting to order at 4:02 pm. He announced that the meeting is being recorded and those who could not attend are welcome to use the above link to watch the recording.

II. Approval of minutes of the Meeting of August 24, 2021.

Henry Terry asked for approval of the minutes of the meeting of August 24, 2021. Trish Bridier moved approval, Paula Williams seconded, and the vote to approve was unanimous.

III. Treasurer's Report.

Anne Terry, Treasurer, gave the Treasurer's report, attached, which had a beginning balance of \$3629.86, dues of \$25.00, and an end balance of \$3654.86. A motion to approve was made by

Paula Williams, seconded by Trish Bridier, and approved unanimously.

IV. Old Business.

Henry Terry reported the nomination slate for officers of the Nantucket Town Association. The slate, which is listed below, was approved unanimously.

Officers:

Henry Terry	President
Barbara von der Groeben	1 st Vice President
Barbara G. Cohen	2 nd Vice President
Lee Saperstein	Recording Secretary
Mary Anne Easley	Corresponding Secretary
Anne Terry	Treasurer
Trish Bridier	Clerk

Directors

Gail Norton
Marsha Fader
Bill Seay
Paula Williams
Craig Muhlhauser
Peggy Altreuter

Advisors

Charley Walters
C. Richard Loftin
Alexandria LaPaglia

V. New Business

Henry Terry reminded the members that Gail Walker, founder of Nantucket Lights, is seeking a volunteer to be a representative from the Town Association to join the organization's steering committee. If interested, write to her at <https://nantucketlights.org/> (then go to "more" and "contact us").

VI. Guest Presentation: David Gray, Director, Sewer Department, Frank Ayotte, Hazen and Sawyer, Consultants.

Henry Terry introduced David Gray, who gave a presentation on the new force-main installation and then introduced Frank Ayotte to expand on his comments. David Gray said that they would be working from a PowerPoint slide presentation, which is attached to these minutes. To prevent a recurrence of the accident that happened on January 4th, 2018, the Town is embarking on a major installation of Force Main 3, a new 20-in. main from the Sea Steet pumping station to the South Shore sewage works. Since the failure, the Town has had to rely on an existing cast-iron, 20-in. main that it is unable to inspect. The goal of this installation is to provide an up-to-date main that will allow the existing, but 30-year-old main, to be taken out of service while it is inspected and any weak areas replaced. It will then serve as the back-up to the new one. The original main was a 20-inch cast iron pipe that had been supplemented with a 16-inch polyethylene pipe inserted into it. The plastic pipe failed and sewage came out with force from a number of joints in the iron pipe thus disguising the site of the original leak.

The planning goal of the project is to select the best route and the best line of construction attack. Route options have been much discussed in the Sewer Department and with the consultants; potential routes have been walked to observe structures and roadways that are historic and might not be disturbed. The chosen 19,000-ft. route has major elements that have been selected for current sewer and water projects. Most of the infrastructure for sewer and water will be replaced along the route. With the close cooperation of the sewer, water, and public works departments, it is hoped that these roads will need to be opened only once for both the force main project and the scheduled ones. It is intended to repave these streets totally, once all sub-surface construction is finished, to new road standards. This repaving work will include sidewalks and curbs if needed; if the paving material is historic, i.e., Belgium Block or cobblestone, care will be taken to replace them in keeping with historic standards. Liaison with the Nantucket Historic Commission has already taken place on using historic methods.

Frank Ayotte, consultant, will act as the Town's owner's representative with whichever contractor is selected for the work. The slides that are attached to these minutes were prepared for a presentation to the Nantucket Rotary Club and will be used frequently in the future because we intend to make many presentations similar to this one and, particularly, to route neighbors. Frank Ayotte continued with the presentation. The selected route, shown on the slides, is to be both as short as possible and as non-intrusive as possible. As mentioned, it is intended to replace existing infrastructure along the route including gravity sewers, storm drains, and water lines. The scheduling goal is for the work to be done within three years, including summer moratoria. During the work, historic brick and stone will be salvaged for re-use. If replacement materials are needed, they will be selected to be compatible and to blend in. Should they find cobblestones under an asphalt overlay, they will attempt to restore the stone pavement. Bid openings for the project will be October 6th and they hope to select a contractor who is both low bidder and qualified. The project could begin as soon as November, although early in the new year is more likely. He ended by saying that the project was critical; then, the presenters asked if there were any questions.

Marsha Fader asked if the potential sea-level rise was going to affect the design and construction of the project. The answer was "no." All buried pipes are placed so that flooding will not affect their position and the Sea Street pumping Station has been renovated to put all electrical connections above the highwater mark in the building or in waterproof boxes. It can operate even in flood conditions. She asked also about the existing variations in historic structures, such as variations in sidewalk materials, brick, granite, concrete, asphalt, etc., and how they will be replaced. They will follow guidance from the Nantucket Historic Commission. The Town's Preservation Planner, Holly Backus, will also provide liaison between the Town and the contractor. Marsha Fader's last question was whether or not it will be possible to coordinate with electrical and communication projects, particularly for burial of those lines. Unfortunately, no, was the reply because narrow streets and ways make it difficult to bury power and communication lines.

Mary Anne Easley asked about current projects such as the drainage project on West Chester Street and how they might be coordinated with the force-main project. Because West Chester is in pretty good shape, they said that work on it may have to come after the force-main project,

i.e., three years out. Lee Saperstein noted that there are a number of bends in the route and that these can cause extra wear and tear on a pipe. Frank Ayotte replied that they are aware and have put extra protection for the pipe at these points in the design.

David Gray began to wrap up the presentation by saying that they will always be available to discuss the project and to answer questions or to field concerns. Frank Ayotte said that there will always be technical personnel on site to answer questions. He noted that the Town's website will continue to have status reports (<https://www.nantucket-ma.gov/1930/Sea-Street-3rd-Sewer-Force-Main-Project>). They intend to do a radio interview also on the project.

Mary Longacre asked about storm-water issues, particularly those storm drains that lead to Children's Beach. The answer to this question is that they will re-build drains in the project route. While they are concerned about other problems, they may need to be included in another project. They did note that Atlantic Avenue will be worked on soon.

VI. Adjournment.

Henry Terry thanked them for their presentation and called for a motion to adjourn and Trish Bridier moved and Anne Terry seconded the unanimously approved motion at 4:45 pm.

***Next meeting is October 26th and will be via Zoom unless a decision to hold an in-person meeting is made; more information will be forthcoming with the next agenda; if one uses Zoom, registration is available at the same address as was used for this meeting.**

*Please remember that we need to end the meeting by 5:00 pm so that the library staff may leave the building.

Lee W. Saperstein, Secretary,

NANTUCKET TOWN ASSOCIATION

Treasurer's Report

Sep 28, 2021

Beginning Balance		\$3,629.86
Deposits		
Dues	25.00	
End Balance		\$3,654.86

DRAFT

Sea Street Pump Station Force Main No.3

Nantucket, MA
Nantucket Town Association
September 28, 2021

DAVID CROFT
SEWER DEPARTMENT DIRECTOR



ZACHARY P. E.
PRINCIPAL

BY APPOINTMENT
SPECIAL CONSULTANT

FRANK ANTONI, P.E.
V.P. PRESIDENT



Agenda:

Project Background

- 2018 Force Main Report & Recommendations
- Project Description and Necessity

Project Update

- Design and Construction Documents
- Bidding and Construction Schedule

Project Background

- Major sewer force main failure in downtown area occurred following "Bambi Cyclone" in January 2018
- Conducted a forensic investigation into cause of break
- Investigation concluded that in-use force main had uncertain long-term reliability
- Town was relying on 1 functioning force main with likelihood of future complications; Need for an additional force main was necessary



Project Description and Necessity

Work:

- Design and construct a new sewer force main (Force Main No.3) spanning from the Sea Street Pump Station to the Surfside Wastewater Treatment Facility

Impact:

- Force Main No.3 will serve as the primary force main
- Provides additional sewer capacity
- Allows retiring of the existing 16-inch polyethylene force main
- Reduces reliance on the existing 20-inch ductile iron force main



Force Main Alignment & Utility Upgrades

Force Main Alignment – Map View



Force Main Alignment – Approved Route

- Advantages**
 - Shortest of studied routes
 - No impact to 100-ft wetland buffer
 - Restoration of bike path/bikewalk on Surfside
 - Cross-Connection Potential on Surfside Road
 - Elevation change lowest of studied routes (17')
 - Replace aging infrastructure along route
- Construction Challenges**
 - Construction within residential areas
 - Construction within historic district
 - Parking and Traffic Coordination

Route	Length (ft)	Elevation Change (ft)
Sea Street	100	20
Step Lane	150	15
Centre Street	200	10
Lily Street	250	5
Liberty Street	300	0
Water Street	350	-5
Pine Street	400	-10
Silver Street	450	-15
Pleasant Street	500	-20
Atlantic Avenue	550	-25
Surfside Road	600	-30
South Shore Road	650	-35

Force Main Route – Utilities Replacement Assessment

Street	Existing Water Main	Existing Sewer
Sea Street		
Step Lane	✓	✓
Centre Street	✓	✓
Lily Street	✓	✓
Liberty Street	✓	✓
Water Street	✓	✓
Pine Street	✓	✓
Silver Street	✓	✓
Pleasant Street	✓	✓
Atlantic Avenue		✓
Surfside Road		
South Shore Road		

Force Main Route– Drain Replacement Considerations

- All impacted drain lines and structures will be replaced in kind within the limits of work
- Coordination with DPW for cleaning of structures





Restoration Legend

Color	Description
Grey	EXISTING ASPHALT
Red	EXISTING CONCRETE DRIVEWAY
Yellow	EXISTING CONCRETE DRIVEWAY
Green	EXISTING CONCRETE DRIVEWAY
Blue	EXISTING CONCRETE DRIVEWAY
Black	EXISTING CONCRETE DRIVEWAY

Note:
Full Depth Reclamation – Replace recycling method for reconstruction using the existing pavement section marked as the base for the new roadway surface.

Reconstruction – asphalt



