

The background image is a faded photograph of a construction site. It features a large yellow excavator with its arm raised, positioned behind a grey building. The foreground is filled with a large pile of dark, irregular rocks or rubble. The overall scene is hazy, suggesting a misty or overcast day.

# Duxbury Seawall Project

Presentation on Scope, Budget, Timeline Estimates

# Foundation of Project

- Seawall

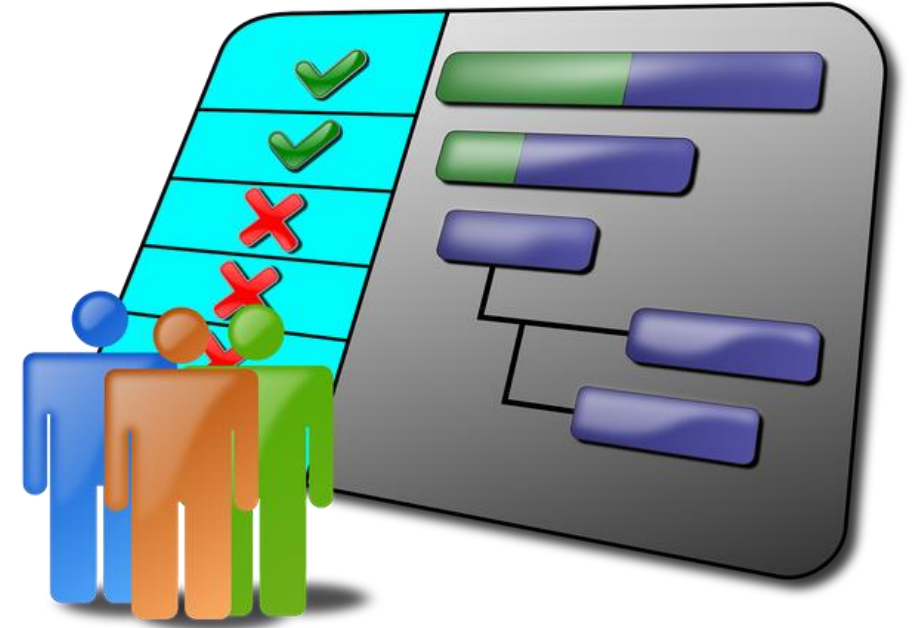
- 2018 Climate Vulnerability Assessment and Action Plan
- Duxbury Seawall Assessment (June 2020)

- Beach Nourishment

- MA CZM Coastal Resilience Grant Program (3 received)
- Based on augmenting current management approach of seawall repair
- CZM has recommended permitting BN before implementing seawall project

# Development of Timeline

- July 2022 through October 2022
- Consulted Numerous Officials and Other Experts
  - Amory Engineers
  - Kingston and Marshfield Planning Directors
  - Coastal Zone Management Division of EEA
  - DPW Director
  - Woods Hole Partners, Inc.
- Presented to Town Manager Group to Garner Feedback
- Final Version Distributed 9/28/2022



# Key Assumptions in Developing Timeline

1. Seawall Permitting can proceed as soon as plans are revised and a consultant secured
2. One property owners meeting and one public meeting for beach nourishment project.
3. Three property owners meetings and three public meetings for seawall construction project.
4. Beach nourishment easements to be recorded in Oct. 2022; nourishment permitting should be secured before seawall construction.
5. Beach nourishment project should begin AFTER most of seawall project completed as per Woods Hole recommendation.
6. Town must individually identify sources of funding for construction of nourishment project.
7. Final permitting for beach nourishment contingent on current CZM grant application award, which was SUCCESSFUL.
8. USACE permitting for nourishment is a wild card that could impact this timeline.
9. Initial funds to be secured for seawall construction in March 2023 via ATM action. Grants applied for to supplement.
10. There have been NO seawall permits applied for as yet (confirmed 9/12/2022). Previous permits approved but expired.
11. Based on Scenario 1 (Replace Entire Seawall) of Amory Assessment Report.
12. Work within the priority estimated habitat cannot be done between April 1 and October 31.
13. Seawall construction closeout in October 2026 or earlier, weather permitting.
14. Local seawall funding could include: tax-exempt or direct-payment bonds, MA Infrastructure Bank funds, and other sources.

# Timeline Task Areas

1. Local Due Diligence
2. Related Tasks
3. Plans Development
4. Funds Seeking
5. Pre-Construction and Permitting
6. Construction

# Local Due Diligence

- Includes seeking easements, beginning public outreach, and establishing a project team
- Four property owners meetings and five public meetings throughout permitting, construction, and beach nourishment are proposed
- Project team membership to be determined but also anticipate a stakeholders aligned group to assist.

# Related Tasks

- Includes range of beach nourishment tasks in lead up to seawall project, such as:
  - Plan and design development
  - Finalizing permitting
  - Recording easements
- It is understood that CZM requires beach nourishment permitting to be completed before there will be consideration of seawall permitting and construction.
- After seawall construction, nourishment execution can commence

# Plans Development

- Plans have been developed for the seawall based on one phase
- These plans require some modifications which it is anticipated will not take a long time
- Once completed, plans can be submitted to permitting agencies for review. This is anticipated to take at least a year.



# Funds Seeking

- Anticipated cost of seawall and beach nourishment = **\$28 million**
  - Beach Nourishment Estimate = \$4 million (Woods Hole)
  - Seawall Construction Estimate = \$24 million (Amory Engineering)
- Funds sources could include:
  - Tax exempt or direct payment bonds
  - Debt
  - Special assessments or betterments
  - Grant funds

# Seawall Permitting

- At least five (5) agencies will be permitting the seawall project. These include the following:
  - Duxbury Conservation Commission
  - MEPA
  - US Army Corps of Engineers
  - Mass DEP Division of Waterways
  - Mass DEP Coastal Zone Management (CZM)
- Permitting process expected to take  $\pm$  one (1) year

# Next Steps

1. Continue Beach Nourishment Permitting Process
2. Determine Approach to Funding and Seek Approvals
3. Finalize Final Design, Budget, Scope, and Timeline
4. Award Contract for Construction
5. Apply for Permits
6. Begin Construction

