

Duxbury Seawall Committee Minutes – August 12, 2021

Present: DSWC Members: Alicia Babcock, Paul Brogna, Steve Callahan, Arthur Haley, Candace Martin, Don Norris, Mary Shiebler. BOS Liaison: Ted Flynn

TOWN CLERK
2021 SEP 28 AM 9:55
DUXBURY, MASS.

1. The meeting was called to order at 4:39 PM.
The Zoom Preamble was read by Alicia.
2. The minutes of 08/03/2021 meeting were approved as presented.
3. OLD BUSINESS
 - 3.1 *FEMA Reimbursement Update*-Alicia received email from Chris Spilman. He indicated that the final numbers on engineering, inspection; amounts submitted to FEMA and local submitted amounts were included in his documentation. He said there would be closeout request by end of week and the final documentation with cover letter/request for reconsideration was to go to Rene Read and John Adams for approval this week (Thurs or Friday). Once approved, packet would be sent. He anticipated hearing back from MEMA within a month of letter receipt and then FEMA would be another month. He was "optimistic" that results would be good and Town would hear by 12/01/21.
 - 3.2 *Review Feedback on Funding Plan and Project Cost Phase 1*- The Plan and options within it were reviewed. There would be over a \$4M saving in the 'one & done' approach. In looking to a tax override to cover cost difference from Grants (Federal and State) and betterments, there would be average household tax increase of approximately \$202. The benchmark formula of Phase 1 betterment, using cost per linear foot, would be used. This formula is easily transferable to other phase(s). There is joint meeting BOS/FinCom/FAC/SC scheduled for 8/23/21 regarding Capital funding and annual budget. Wall funding needs to be addressed/included in annual budget planning. Discussion on appropriate process to address wall funding Plan with committees ensued. Candy indicated the funding regarding bonding was discussed in emails with John Q. Information would be added/updated in Plan. Plan was reviewed, discussing options and alternatives as well as costs and savings. Motion was made and approved for DSWC to endorse 'Option 1-Entire SW' of Funding Plan. Ted then suggested further order of approval/endorsement process that Plan go to FAC then Fin Com then BOS.
 - 3.3 *Review Committee Charge for BOS Consideration*- Ted has reviewed revised draft and approved it as written. He indicated that the Town Manager and BOS would have the final approval of changes. A motion that DSWC approve draft as presented and present to BOS for approval, was made and approved.
 - 3.4 *Dam&SW Grant Deadline Update*- Mary reported that deadline for this year has passed. There are multiple programs for grants available through State and FEMA. She spoke with Pat Brennan from Amory who submitted the grant for Phase one funding. He indicated that Town has not asked him to submit any grants for wall since 2019.
 - 3.5 *Grant for Grant Writer Update*- Don reported that he could not locate any specific grant on line. He will continue to research. In 2018, Marshfield approved a \$25,000 annual budget for Grant writer salary. The return on Grant approvals immediately paid for the grant writer salary! There was discussion of proposing a STM Warrant Article for a Grant Writer for the Town. Marshfield had done a Citizen's Petition for their part time grant writer. Paul will contact Marshfield regarding information on their citizen's petition. Discussion also of possible consultant(s) to assist in Grant process. There is no update on Town Planner replacement. Val will continue to assist until there is new planner in place.
 - 3.6 *Coastal Infrastructure Awards Update*- Steve placed call to Josh Cutler regarding these awards. He is to meet with Josh/or staff soon.

3.7 *Beach Nourishment Update*- There is Open Forum on Beach Nourishment Update on 8/17/21 at 7PM at Marshfield Harbormaster or via ZOOM. Easements still outstanding-residents questions regarding resign new easement-should be one form.

4. OPEN FORUM- Paul discussed fact that the SW replacement is a 'shovel ready project'; designed and permitted. This type of request would be ideal for funding from the Infrastructure Bill now in Congress. There are Coastal infrastructure concerns noted in the bill. Perhaps a 'political' approach to obtain some funding could be put forth with Josh Cutler and Patrick O'Connor (State Representative & State Senator). They assisted us greatly in obtaining funding with Phase 1 Grant. All agreed would be a good approach.
5. ADJOURNMENT- The meeting was adjourned at 5:45 PM.

References:

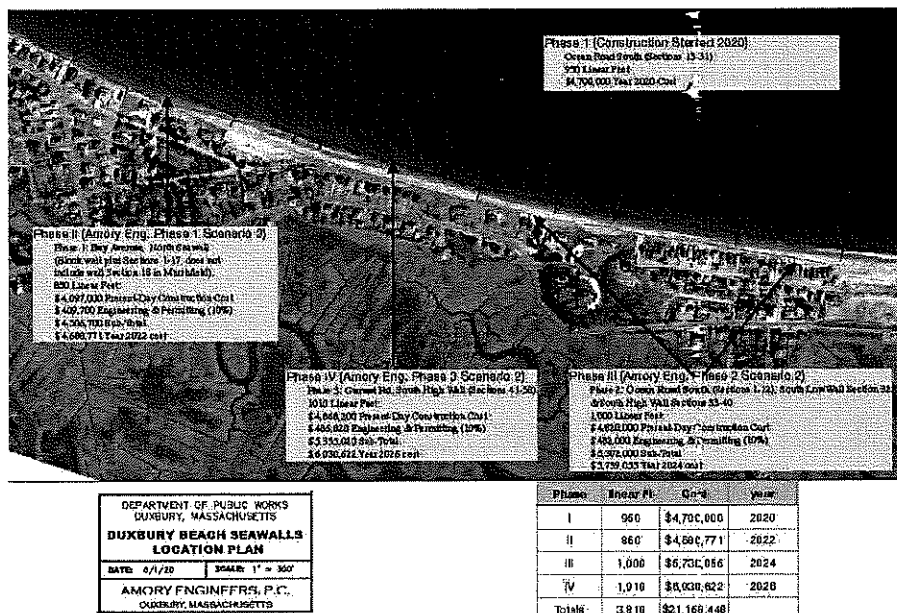
1. Duxbury Beach Seawall Assessment and Replacement Phasing Plan, Amory Engineers, June 1 2020
2. Amory Proposal for Phase 1, April 23, 2018
3. Beach Nourishment Update Email V Massard November 19, 2020
4. Building Shoreline Resiliency in Marshfield & Duxbury Through Beach and Dune Nourishment, Woods Hole Group January 20, 2021
5. Dam, Levee and Seawall Repair and Removal Application
 - a. ENV 19 DS 02
 - b. ENV 20 DS 02
 - c. ENV 21 DS 01

Priority Replacement

1. Bay Ave/Northern Section of Seawall to Marshfield Line 850 LF
 2. Ocean Road South & South Gurnet Road (low wall) 1,000 LF
 3. Gurnet Road 1,010 LF
- Total 2,860 LF

Options for Replacement:

1. Total Wall Replacement
2. Three Phased Approach (by Priority listed above)



Summary:

	Option 1	Option 2	
	Entire Seawall	Phased 3 Years	
Construction	\$16,800,000	\$20,550,000	
Engineering	\$85,000	\$235,000	
Testing/Misc	\$20,000	\$30,000	
Subtotal	\$16,905,000	\$20,815,000	
Contingency	\$845,250	\$1,040,750	5%
Total	\$17,750,250	\$21,855,750	\$4,105,500

On August 12, 2021: The Seawall Committee voted unanimously to recommend Option 1 and to proceed with presentation to Town/Fiscal Advisory Committee for funding for FY2023.

Supporting Documentation

Option 1: Entire Seawall

Timeline (best achievable)

Pending approval of Permits on Dune Nourishment estimated 2021-2022/June 2022. Reference 3 & 4.

Town Meeting Warrant Article	March 2022
RFP Issued	April 2022
Beach Nourishment Permit Approved	June 2022
Project Award	June 2022
Construction	July-September 2022

Project Cost

Scenario 1, Replace entire Seawall:

2,860 Linear Feet:	
\$ 13,785,200	Present-Day Construction Cost
\$ 1,378,520	Engineering & Permitting (10%)
\$ 15,163,720	Sub-Total
Scenario 1 Total: \$ 15,776,334	Year 2022 cost

Construction:

Estimated Construction 2,860 at \$4,810/LF per Amory Estimate (Reference 1/Table above)

Amory Bid for Phase 1 October 16, 2019 = \$4,686,100 for 950 ft. \$4,932/LF

UPDATE: Budget Estimate from Norther Construction 18Jul21 = \$16,800,000

Engineering:

Amory based on 10% of costs at \$1,680,000.

Permit completed; original Engineering Costs for Design and Permitting = \$85k

As Design is complete:

Allowance for Permitting	\$40,000	
Bid Assistance	\$ 5,000	
Construction Admin	<u>\$40,000</u>	(Amory actual for Phase I CA = \$18,223)
	\$85,000	

Cost Summary:

Option 1 - Entire Seawall

Construction	\$ 16,800,000	
Engineering	\$ 85,000	
Testing/Misc	<u>\$ 20,000</u>	
Subtotal	\$ 16,905,000	
Contingency	<u>\$ 845,250</u>	5%
Total	\$ 17,750,250	

Funding of \$18M

State Grants
Tax Override
Betterments

State Grants

Awarded on an annual basis.

	Bid Posting Dates	Award
2019	May - June	September
2020	May - June	August
2021	Jan - Feb	April
2022	TBD	

Grants must be submitted with a detailed project plan and schedule.

Evaluation of award is based on Town's own commitment to the project as evidenced by local investment. A minimum financial match of 25% is required. This match may be provided as either direct cash, in-kind, or a combination thereof. (Reference 5).

Priority shall be give to projects for structures that are owned or operated by citites, towns and charitable organizations. No funding to State or privately owned structures.

Priority shall also be given to those structures identified in writing by the Army Corps of Engineers as requiring imminent infrastrucure improvement. TBD: Can we request new inspection of Bay Ave? Has CZM provided any updates on wall condition?

Condition of Award: awardee shall have one year (12 months) from the public announcement of the award to execute a contract).

The maximum award for any one application for Category 2 – Seawalls: noted as funding can be from a grant or a finance package offering a combination of grant and loan funds)

2019 \$3,000,000 (noted as a loan funds extremely limited)

2020 \$3,000,000 (note as GRANT*)

2021 \$ 500,000 (noted as all grants; no loans)

* also noted "Project proponents with projects with greater financial need than is permissible within the above limits may also apply for a loan from the EOEEA Dam and Seawall Revolving Loan Fund."

Tax Override

Bonding of \$17.7M borrowing costs at 3.5%, 30 years would be an average household increase tax \$202.17

Betterments

Need to develop a proposal based on the financial outcome of the 2020 construction costs and betterments. Use same financial allocation for at ocean front and neighborhood.

Option 2: Phasing

Timeline (best achievable)

Pending approval of Permits on Dune Nourishment estimated 2021-2022/June 2022. Reference 3 & 4.

Town Meeting Warrant Article	March 2022	Phase II Bay Ave
RFP Issued	April 2022	
Beach Nourishment Permit Approved	June 2022	
Project Award	June 2022	
Construction	July-September 2022	
Phase III and IV to follow in subsequent years.		

Scenario 2, Replace in three phases:

Phase 1: North Seawall (Block wall plus Sections 1-17, does not include wall Section 18 in Marshfield).

850 Linear Feet:

\$	4,097,000	Present-Day Construction Cost
\$	409,700	Engineering & Permitting (10%)
\$	<u>4,506,700</u>	Sub-Total
\$	4,688,771	Year 2022 cost

Phase 2: Ocean Road South (Sections 1-12), South Low Wall Section 32 & South High Wall Sections 33-40

1,000 Linear Feet:

\$	4,820,000	Present-Day Construction Cost
\$	482,000	Engineering & Permitting (10%)
\$	<u>5,302,000</u>	Sub-Total
\$	5,739,055	Year 2024 cost

Phase 3: South High Wall (Sections 41-58)

1010 Linear Feet:

\$	4,868,200	Present-Day Construction Cost
\$	486,820	Engineering & Permitting (10%)
\$	<u>5,355,020</u>	Sub-Total
\$	6,030,622	Year 2026 cost

Scenario 2 Total: \$ 16,458,448

Project Cost

UPDATED from budget pricing from Northern Constructions

Phase	LF	Location	Construction (Budget Estimate)	Engineering	Contingency @ 5%	Total
II	850	Bay Ave	\$5,700,000	\$65,000	\$285,000	\$6,050,000
III	1000	ORS & So Gurnet	\$7,200,000	\$80,000	\$360,000	\$7,640,000
IV	1010	Gurnet Road	\$7,650,000	\$90,000	\$382,500	\$8,122,500
	2860		\$20,550,000	\$235,000	\$1,027,500	\$21,812,500

Funding of \$21.8M

State Grants
Tax Override
Betterments

State Grants

Annual application; potential for \$1M each or greater.

Tax Override

Bonding of \$21.8M borrowing costs at 3.5%, 30 years would be an average household increase tax \$256.60.

Betterments

Need to develop a proposal based on the financial outcome of the 2020 construction costs and betterments. Use same financial allocation for at ocean front and neighborhood.

1. Review conditions surveys that document past and present seawall conditions.
2. Review engineering recommendations for the design and project phasing.
3. Evaluate recommendations for temporary measures that may be required to protect the safety of residents. Including immediate damage mitigation in the event of seawall breach or collapse.
4. Review approved beach nourishment & seawall replacement plans to assess implementation plan and assist with community notifications and requirements for easements.
5. Assist Town in identifying Federal, State and privately funded grant opportunities for coastal restoration.
6. Work with Planning, Conservation and DPW staff on long range plans for the coastal zone to determine what areas are prone to excessive flood waters in neighborhoods in Gurnet Area and the most effective way to mitigate issues.
7. Work with neighboring South Shore communities on regional solutions for coastal infrastructure management.
8. Advise the Fiscal Advisory Committee on coastal infrastructure cost projections and to establish a reserve maintenance fund.
9. Work with State legislators to support new legislation that will provide funding resources for coastal infrastructure.

