

SWAMPSCOTT HARBOR PLAN

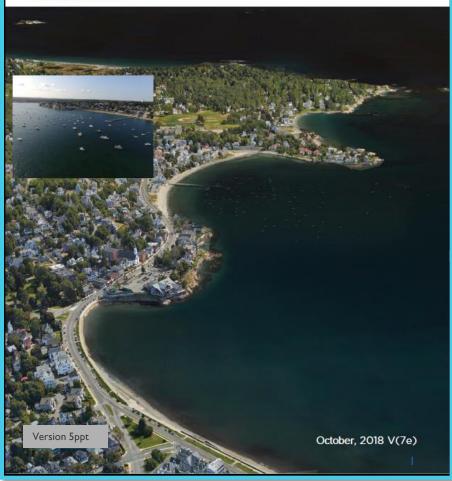


SWAMPSCOTT BOARD OF SELECTMEN

APRIL 24, 2018

Harbor and Waterfront Plan 2018

Swampscott, MA



SWAMPSCOTT & THE SEA—OUR HISTORIC HARBOR AND WATERFRONT

GOALS OF THE HARBOR AND WATERFRONT PLAN

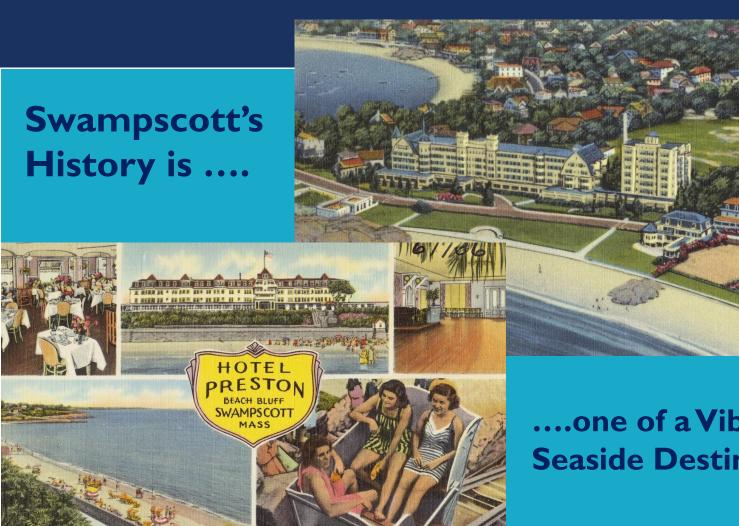
RISK TO SAFETY—RISING TIDES AND COASTAL RESILIENCY

A VISION FOR SWAMPSCOTT'S WATERFRONT

NEXT STEPS

AGENDA

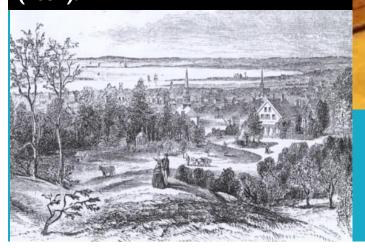




....one of a Vibrant Seaside Destination.



Francis Ingalls founds first Tannery in the New World in Swampscott (1632).



Capt. James Phillips of the "Swampscott Seal" (1795).



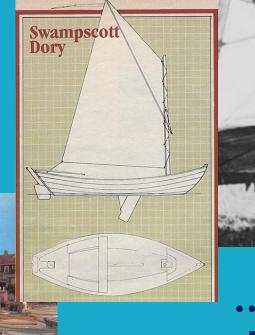
Swampscott Resident Elihu Thomson co-founded General Electric (GE) with Thomas Edison(1892).



...Deep and Rich.

Swampscott reached worldwide status as the place where Ebenezer Thorndike invented the lobster pot in 1808 The Swampscott Dory, a fishing boat still in use throughout the world today, was invented in Swampscott in 1840 by Theophilius Brackett to pull lobster pots. ... GE's Thomson tested aircraft on Swampscott Beaches.







...Essential to the Town's Identity.



SHIPWRECKS OF SWAMPSCOTT



Swampscott

Sch. Clara Forrester, 1876 Sch. Robert Raikes, 1873 Sch. I Tell Ye, 1861 Sch. Triton, 1837

Sch. Charles A. Stetson, 1861

Sch. Lark, 1799

Sch. Alberta Story, 1878

Sch. Gazelle, 1860 .

Slp. Alpha, 1896

Brig. Shamrock, 1836 F/Sch. Mary Hooper, 1887

Sch. Thomaston, 1831

Slp. Bolivar, 1833

Sch. Winslow Morse, 1895

Sch. Gurnet, 1888

Bark Mystic, 1893 Dread Ledge

Sch. Sarah

Brig. Fred

Sch. Brothers,

Sch. Sea Lion, 1864

Brig. Exile, 1851

. Sch. Shark, 1856

Brig. Peggy, 1795

Bark Vernon, 1859

• Sch. Hornet, 1849

Sch. Thomas, 1843

Sch. Charles A. Briggs, 1898

ych. Regina, 1895

· Sal Turneture Smith 1883



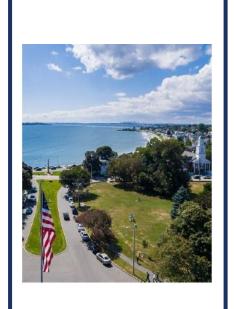
Do Yawl Sinbad, 19





SWAMPSCOTT AND THE SEA: PLAN GOALS

THE HARBOR AND WATERFRONT PLAN IS SPECIFICALLY DESIGNED TO:





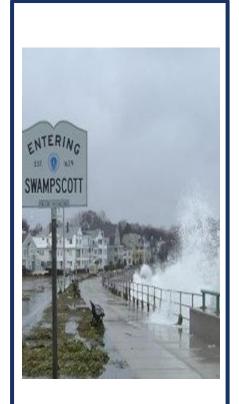


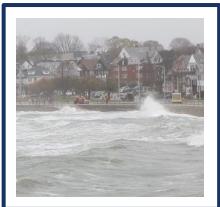
AMPLIFY THE TOWN'S FOCUS ON THE WATERFRONT AS A COMMUNITY ASSET

- INCREASE PUBLIC AWARENESS AND ACCESS TO THE HARBOR AND WATERFRONT, BOATING AND OTHER WATER SPORTS.
- MAINTAIN THE SCENIC CHARACTER AND RICH MARITIME HISTORY OF THE TOWN.
- SUPPORT SUSTAINABLE ECONOMIC DEVELOPMENT.
- REINVIGORATE SWAMPSCOTT AS A DESTINATION AND PORT-OF-CALL.

SWAMPSCOTT AND THE SEA: PLAN GOALS

THE HARBOR AND WATERFRONT PLAN IS SPECIFICALLY DESIGNED TO:







ENSURE THAT NECESSARY INFRASTRUCTURE IMPROVEMENTS ARE MADE TO PROTECT THE HARBOR AND WATERFRONT.

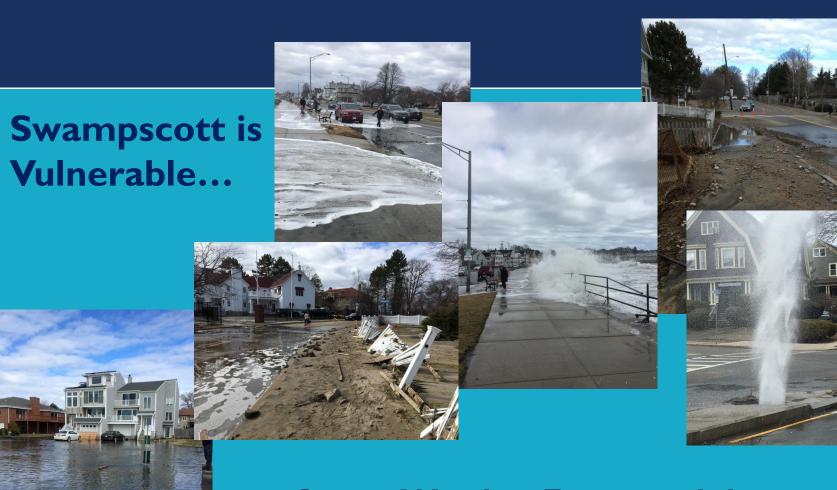
- TAKE MEASURES TO ADDRESS FUTURE STORM SURGES AND SEA LEVEL RISE; STRENGTHEN ENVIRONMENTAL PROTECTION.
- COORDINATE AND COLLABORATE WITH LOCAL, STATE AND FEDERAL REGULATORS AND TAKE ADVANTAGE OF STATE AND FEDERAL GRANTS.
- IDENTIFY A PATHWAY FOR CREATING A
 RESILIENT COASTLINE AND PROVIDE
 ALTERNATIVES FOR PROTECTIVE MEASURES.
- FOCUS ON THE PROTECTION OF LIFE,
 PROPERTY, AND THE HISTORIC STRUCTURES
 AND NATURE OF THE TOWN.
- ESTABLISH A PLATFORM FOR PROPOSALS FOR NEW AND ATTRACTIVE AMENITIES THAT WILL INCREASE THE DESIRABLE NATURE OF THE TOWN FOR RESIDENTS AND VISITORS ALIKE.

SWAMPSCOTT HARBOR PLAN



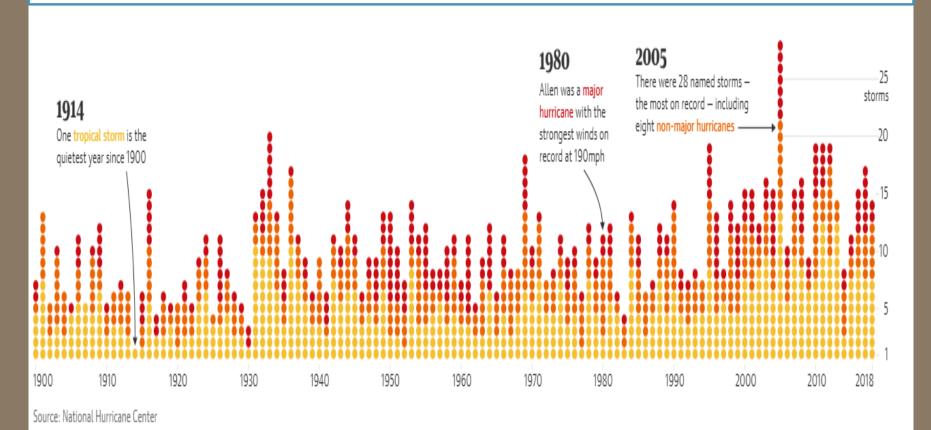
RESILIENCY FOR TODAY AND TOMORROW...





...to Severe Weather Events and the increasing Impacts of Climate Change.

RATES OF STORMS DRAMATICALLY INCREASING (2005 HAD 28 NAMED STORMS)

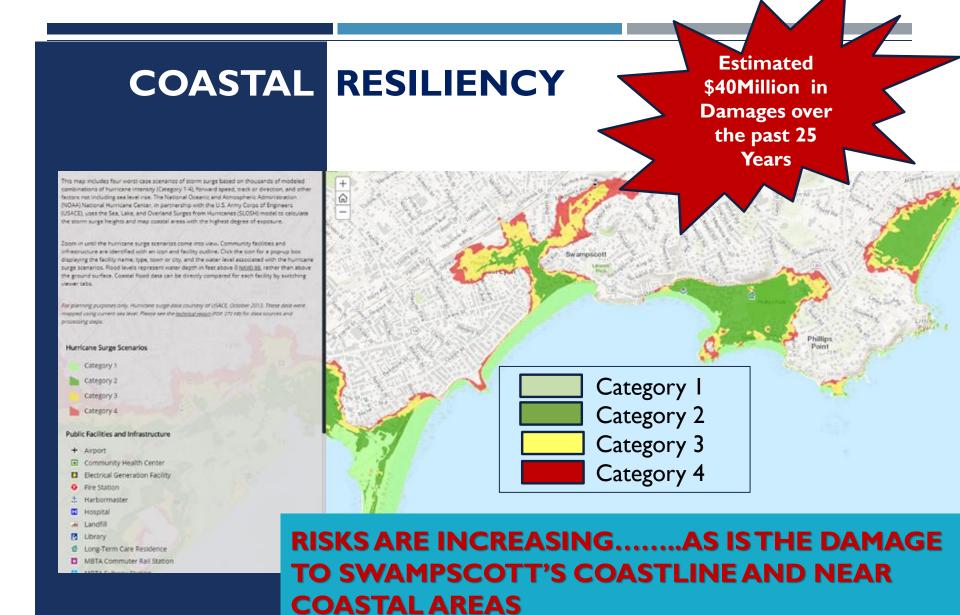


10 Most Destructive Hurricanes in U.S. History

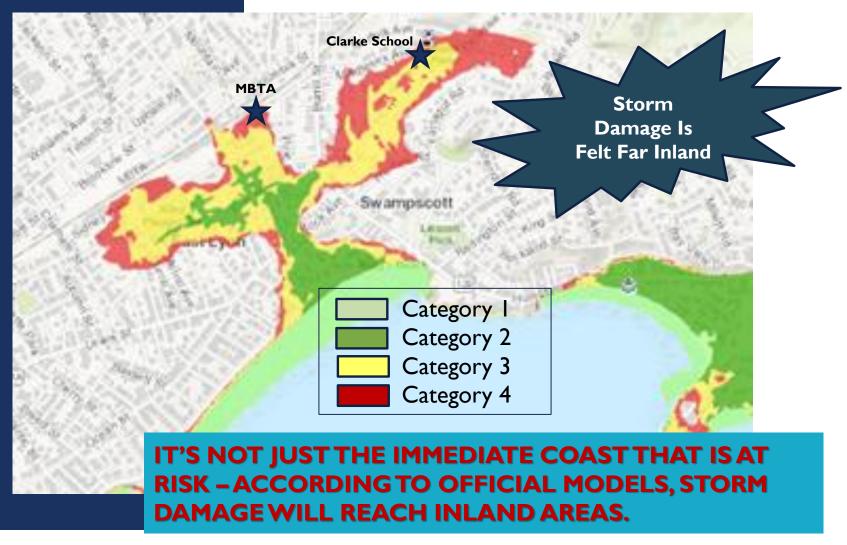
	NAME:	YEAR:	CATEGORY:	COST:*	
1	Katrina	2005	3	\$116.9	BILLION
2	Andrew	1992	5	\$50.4	BILLION
3	lke	2008	2	\$30.7	BILLION
4	Wilma	2005	3	\$22.7	BILLION
5	Ivan	2004	3	\$21.9	BILLION
6	Charley	2004	4	\$17.5	BILLION
7	Irene	2011	1	\$17.4	BILLION
8	Hugo	1989	4	\$16.5	BILLION
9	Rita	2005	3	\$13.4	BILLION
10	Agnes	1972	1	\$12.9	BILLION

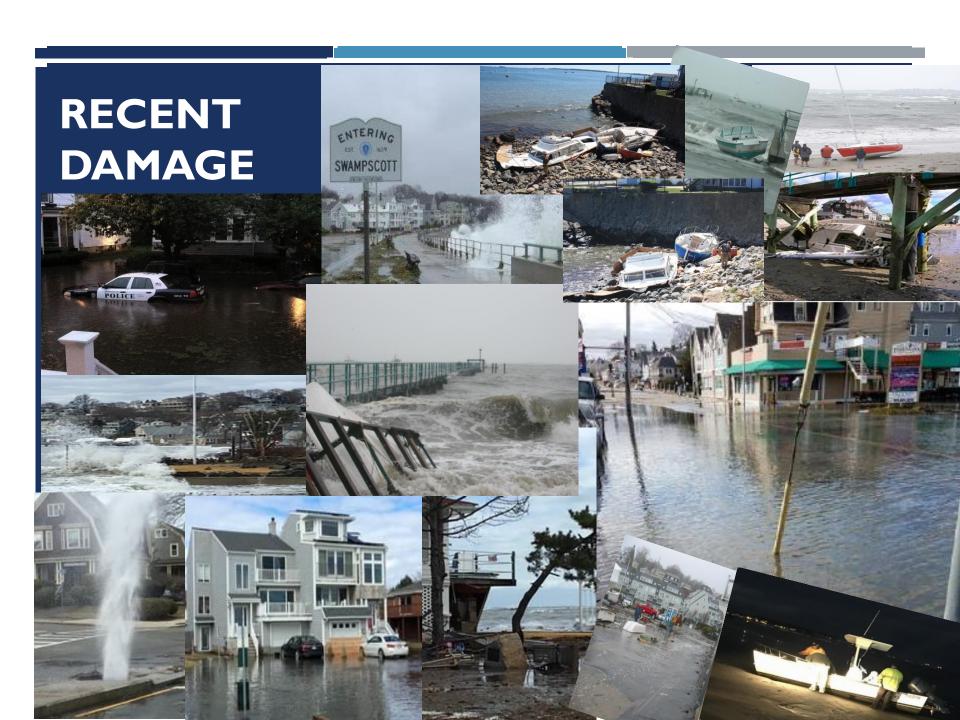
70% OF THE MOST DESTRUCTIVE HURRICANES OCCURRED IN THE PAST 15 YEARS

Hurricane Bob - 1991 Hurricane Sandy - 2012



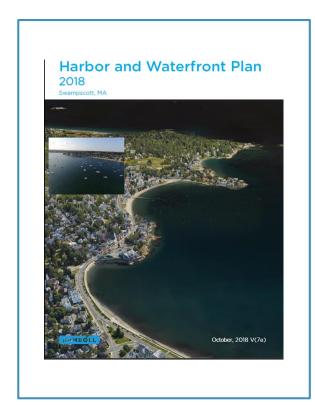
COASTAL RESILIENCY





SWAMPSCOTT HARBOR PLAN

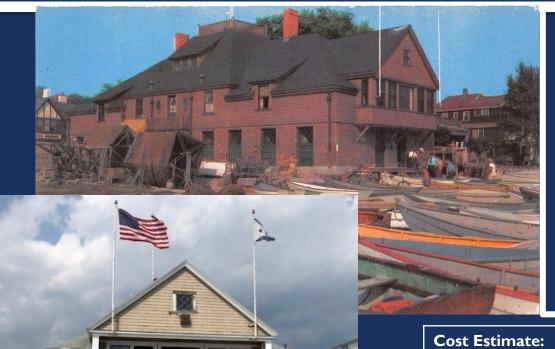
HIGH IMPACT IMPROVEMENTS FOR A BRIGHT FUTURE...





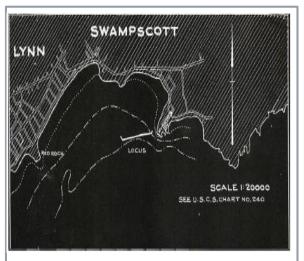
SUMMARY MAP OF PROPOSED PROJECTS AND IMPROVEMENTS

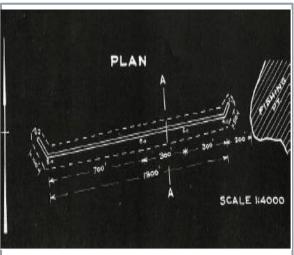


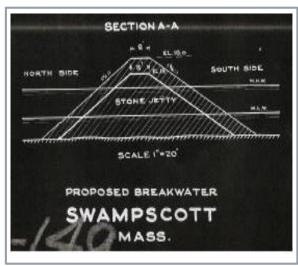


REPAIR & RESTORE HISTORIC FISH HOUSE

Cost Estimate:	\$IM - \$1.5M	
Grants:	\$IM - \$1.5M	
Private Funds:	\$50K - \$100K	
Income Stream:	\$25K-\$50K/yr	
Damage Avoidance	\$50k-\$400K/yr	
Payoff Period (Est.)	l year	







INFRASTRUCTURE INVESTMENTS TO SUPPORT HARBOR AND WATERFRONT RESILIENCY

- ORIGINAL DESIGN SKETCHES FROM THE U.S. ARMY CORPS OF ENGINEERS 1924 DESIGN FOR A BREAKWATER AT THE MOUTH OF SWAMPSCOTT HARBOR.
- FEDERAL GOVERNMENT FUNDING WAS PULLED FROM THE PROJECT, AND THE STRUCTURE WAS NEVER BUILT.
- IN ORDER TO MINIMIZE THE IMPACTS OF SUCH STORM EVENTS ON THE COASTLINE, THE HARBOR AND WATERFRONT NEEDS PROTECTION.
- THIS PLAN SUPPORTS INTERVENTION IN THE FORM OF RESILIENT STRUCTURAL ENHANCEMENT OF COASTAL INFRASTRUCTURE.



HARBOR PROTECTION AND THE "PROTECTIVE LIVING REEF"

Cost Estimate: \$8M - \$12M

Grants: \$6M - \$7M

Private Funds: \$1M - \$2M

Income Stream: \$200K-\$300k/yr

Damage Avoidance \$250k-\$2M/yr

Payoff Period (Est.) 10-15 years

NEW
ECONOMIC
POTENTIAL
FOR THE
HARBOR:
SLIPS,
BOATING,
AND A
DESTINATION
PORT.





RENEWED MARINE IDENTITY FOR THE TOWN:

CLAM AND OYSTER REEFS & HARVESTS FROM THE SEA.



EDUCATIONAL & RESEARCH OPPORTUNITY

- SWAMPSCOTT MARINE LABORATORY & INSTITUTE
- SWAMPSCOTT
 PARTNERING
 WITH MAJOR
 INSTITUTIONS &
 UNIVERSITIES

SWAMPSCOTT EDGEWATER PROMENADE & CLIFF WALK





KINGS BEACH PIER AT THE START OF THE PROMENADE





EISMAN'S BEACH BATHHOUSE AND SNACK SHACK



PHILLIPS BEACH BATHHOUSE & SNACK TRUCKS



"Snack Shack" and Bath-house Amenity



Restaurant on Pier Amenity

\$3M - \$7M
\$100K - \$150K
\$2M - \$6M
\$50K - \$100K/yr
\$250K/yr tourism
6 – 10 years

Raising and Widening Fisherman's Beach Pier

Conveyor Belt on Pier for

Commercial Fishermen

Restored Historic Fish

House



PARKING LOT & GARAGE



CREATING A SENSE OF PLACE: ART INSTALLATIONS



CREATING A SENSE OF PLACE: FESTIVALS, CELEBRATIONS & CONCERTS



SUMMARY OF COST / BENEFIT

ECONOMIC AND SOCIAL BENEFITS

TOWN GOALS MET BY THE PLAN

- I. Revitalizes the Town Waterfront for the Benefit and Enjoyment of Town Residents and Visitors.
- 2. Protects the Waterfront and Town from Storm Damage and Climate Change Threats.
- 3. Protects and Enhances Swampscott's Historic Identity.
- 4. Develops a Welcoming Waterfront that will increase Visitation, Attract Businesses, and increases Commercial Economic Activity and Income.
- 5. Establishes Swampscott as a Regional & State Destination.
- 6. Focuses on Enhancing and Revitalizing the Town Harbor One of the Best and Most Valuable Assets in the Community.

FUNDING OPPORTUNITIES

Federal Funding Opportunities:

- NFWF (National Fish & Wildlife Foundation (\$0.25M \$ 2.5M annual);
- TIGER Grant (\$5M \$35M individual grants to up to 50 recipients per year);
- EPA Brownfields Grant Program (Case by Case Basis \$ 25K \$2.5M Grants Traditionally);
- Federal Resiliency & Waterfront Grant Program (\$100K \$1.25M Federal Infrastructure Grants);
- Federal Economic Development Grant Program (\$ 25K \$1M revolving Econ Dev Grants & Loans);
- US Army Corps of Engineers Dredge Program (Congressional: \$0.5M \$25M for Waterfronts).



State Funding Opportunities:

- State Public Waterfront and Boating Infrastructure Grant (\$10K \$500K);
- Seaport Economic Counsel (\$25k \$250K for Waterfront Projects);
- State Housing and Urban Development Harbor and Port Grant Funds (\$25K \$100M);
- State Infrastructure Grants and Loans Programs (\$.5M \$3M, multiple annual awards);
- DEP Brownfield and Sites Cleanup Grants (Case by Case Basis \$ 25K \$250K Grants);
- State Resiliency & Waterfront Infrastructure Grant Program (\$100K \$2M for Infrastructure).

RECENT EXAMPLES OF FUNDING IN MA

- Baker-Polito Administration Awards \$2.5 Million to Support Plymouth Inner Harbor Dredging
 10/09/2018 Executive Office of Housing and Economic Development
 Award will enable Plymouth to undertake significant dredging project in preparation for upcoming Plymouth 400
 Commemoration
- Baker-Polito Administration Celebrates Completion of Next Phase of Fairhaven's Union Wharf Office of Housing and Economic Development
- •Second phase of rehabilitation project rebuilds bulkhead and consolidates marine safety functions
- Baker-Polito Administration Announce 2018 Navigational Dredging Pilot Program Awards
- •8/29/2018 Executive Office of Housing and Economic Development
- •\$3.6 million in state grants supporting 10 projects, leveraging another \$3.9 million in local funding
- · Baker-Polito Administration Celebrates Completion of Next Phase of Fairhaven's Union Wharf
- •8/27/2018 Executive Office of Housing and Economic Development
- •Winthrop Park will provide new educational and recreational opportunities for residents and visitors

