



# **DENNIS POUND POND MVP ACTION GRANT**

**VIRTUAL WORKSHOP**

**MARCH 16, 2022 | 5:00 - 7:00 PM**



# TODAY'S AGENDA

1. INTRODUCTION
2. HISTORY
3. PROJECT OBJECTIVES
4. PARK OVERVIEW
5. WORKING SESSION
6. NEXT STEPS



# INTRODUCTION





# INTRODUCTION

Municipal Vulnerability Preparedness (MVP) program

Climate resilience grant focused on:

- Flood Mitigation
- Storm Drainage Improvements
- Nature Based Solutions with Multiple Co-Benefits

These competitive grants support cities and towns in identifying climate hazards, developing strategies to improve resilience, and implementing priority actions to adapt to climate change.

Dennis is one of 66 communities and regional partnerships to have received action-grant funding in the latest round of applications.

Team Effort and Special Thanks to The Massachusetts EEA MVP Program and MVP SE coordinator, Courtney Rocha.



# HISTORY



Historically the location has been flooded from coastal nor'easters, as shown in Photo 1 during the September 1944 Great Atlantic Hurricane.

Parts of Lower County Road were submerged under 8 feet of water from 100 mph winds and storm surge.



# HISTORY



The Pond elevation is at 4-feet above sea level, and is at risk from future inundation.

In the 1800's (post-storm era) the south end of Pound Pond was open to Nantucket Sound.

The outermost extent of the 100-year flood plain may represent the the early shoreline of Pound Pond, when boat building and a guano factory were located in this area.

100 Year Flood Zone Map



# RECENT HISTORY



2004 - Town purchases 6.5 acres site for open space and conservation

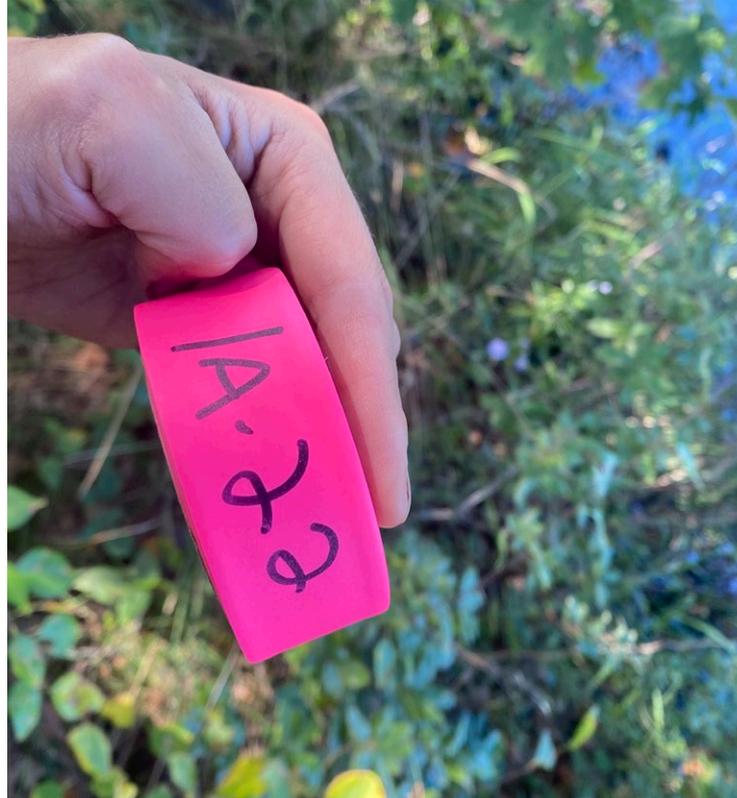
2007 - Improvements to open space included trails & community garden.

2018 - Tennis and pickleball courts





# RECENT HISTORY



## Feasibility Study & Pre Planning

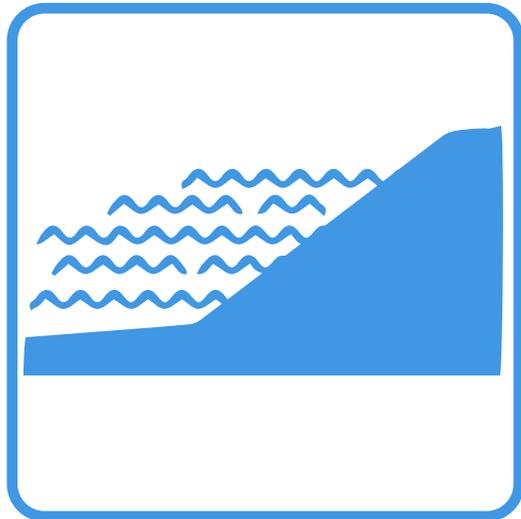
Teams of scientists have studied existing ecological conditions. This information has helped the team establish an understanding of current shortcomings and site specific recommendations.



- Water Quality
- Sediment Analysis and Depths
- Changes to Chemistry and Sediment required to improve ecology of Pound Pond



# PROJECT OBJECTIVES



**DRAINAGE & FLOOD PROTECTION**

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**WETLAND RESTORATION**

+



**PARK IMPROVEMENTS**

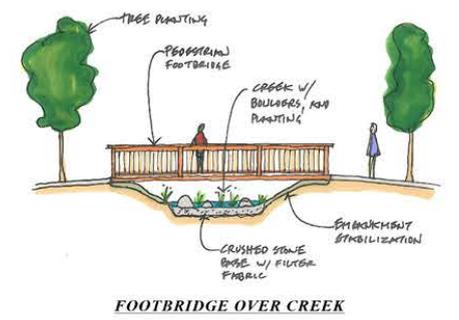
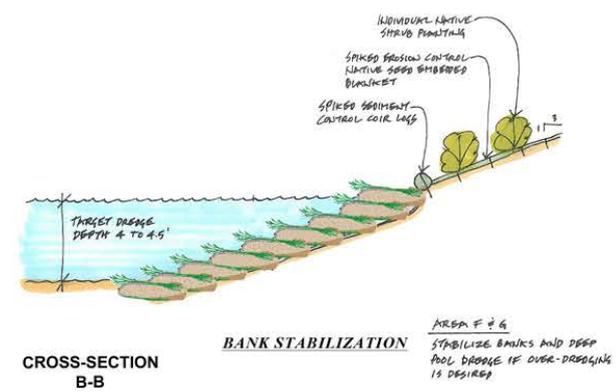
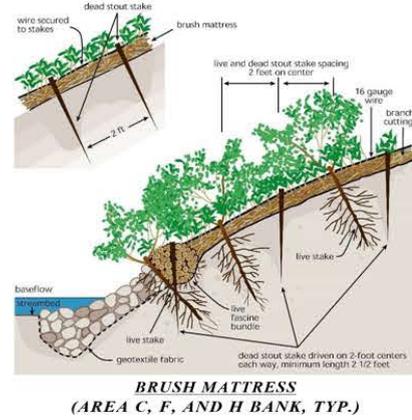
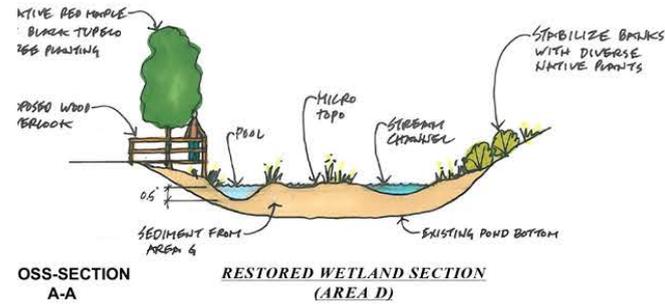


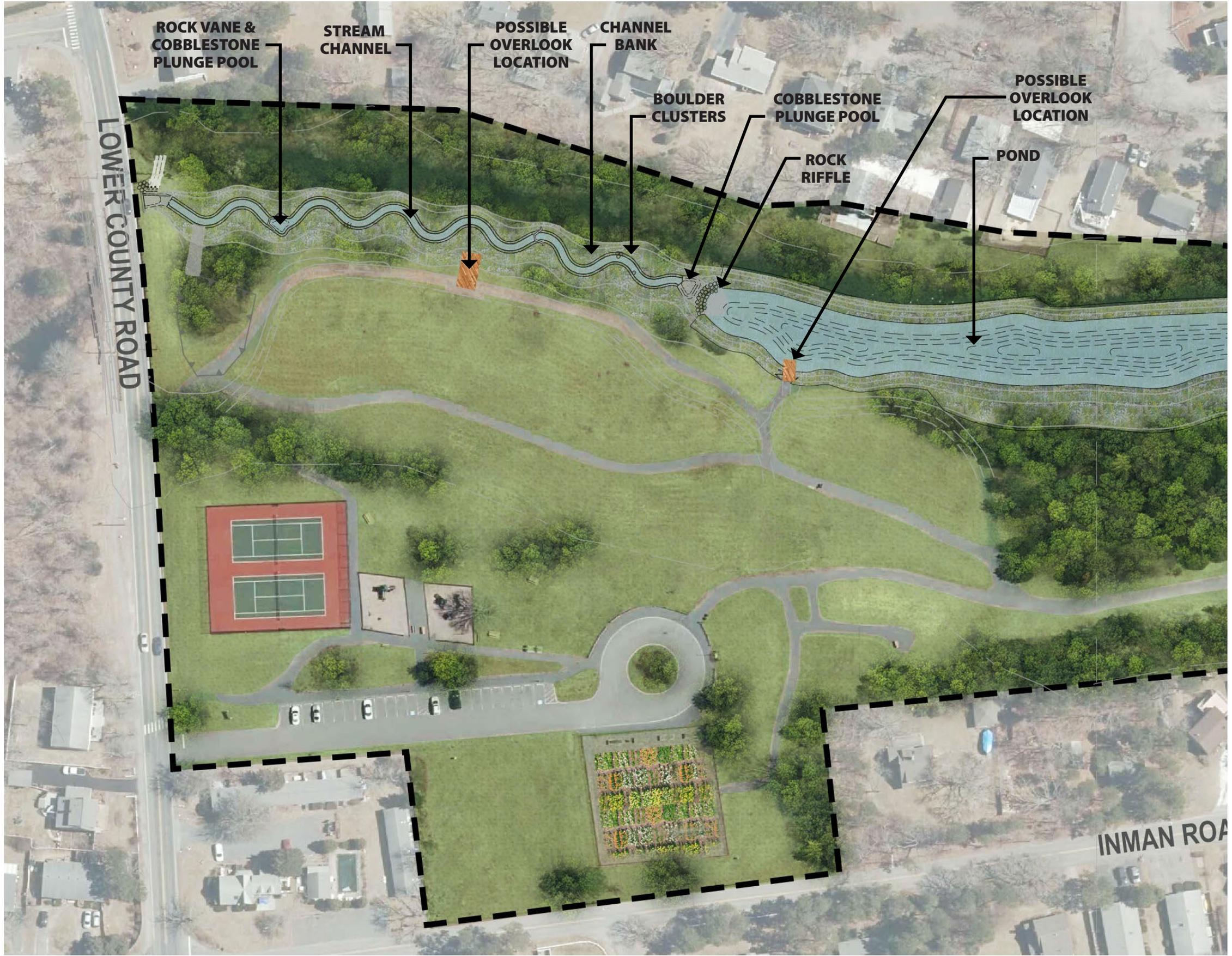
# PROJECT OBJECTIVES - EXISTING





# PROJECT OBJECTIVES - CONCEPTUAL PLAN

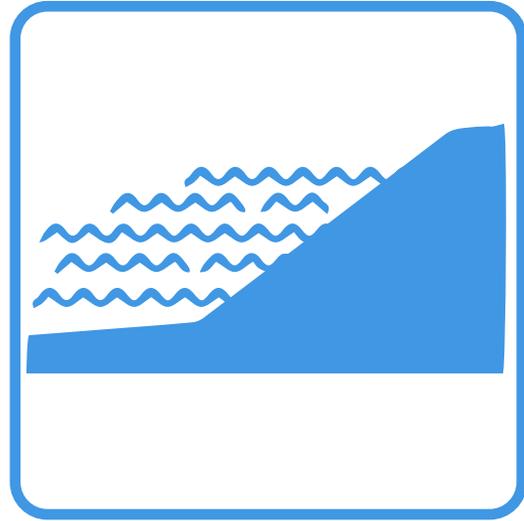








# PROJECT OBJECTIVES



## DRAINAGE & FLOOD PROTECTION

- WATER QUALITY IMPROVEMENTS
- DRAINAGE IMPROVEMENTS
- UPGRADE HARD INFRASTRUCTURE WITH GREEN APPROACHES
- EXPANDED POND AND BENTHIC STRUCTURES
- DAYLIGHT CREEK



**Legend**

- Stormdrain Pipes Included in SewerGEMs
- ▭ SewerGEMs Drainage Area (number indicated sub-drainage area ID)
- - - Municipal Boundary

Scale: 1:8,400  
0 350 700 Feet

**Tighe&Bond**  
Based on MassGIS Color Orthophotography (2019)

**FIGURE 2  
DRAINAGE AREA MAP**  
Pound Pond Flood Mitigation and Storm Drainage Improvements  
Dennis, Massachusetts

November 2021

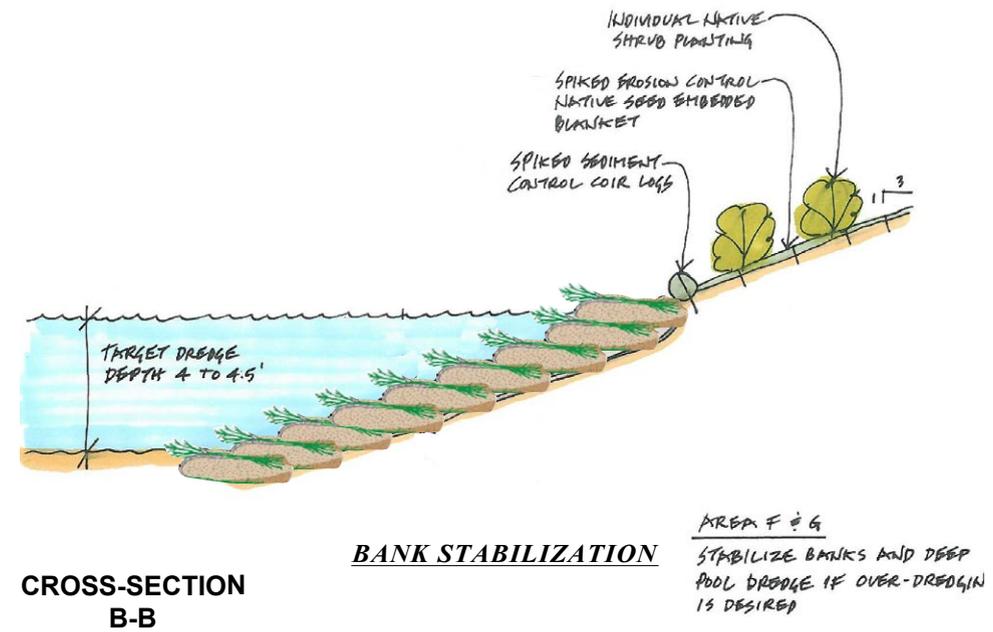
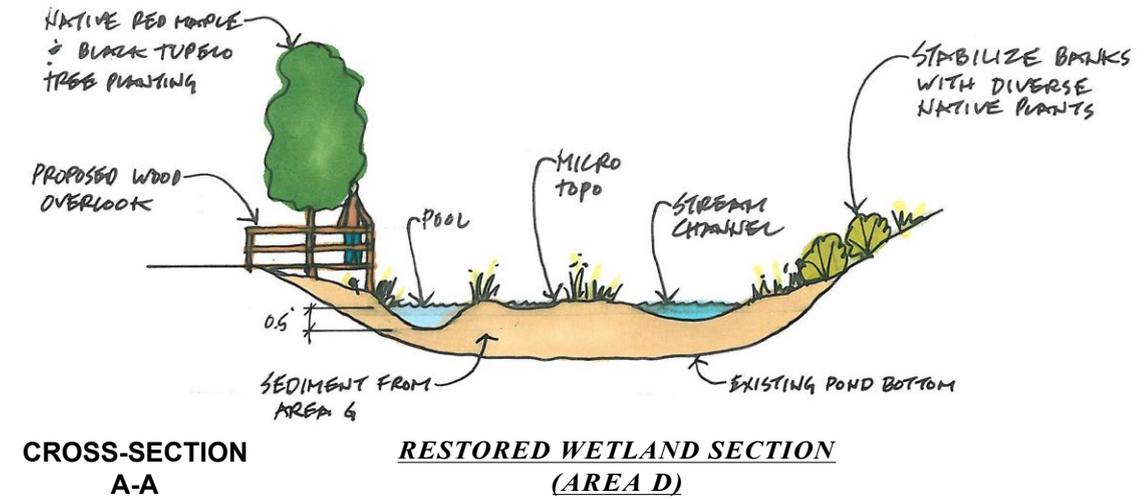


# PROJECT OBJECTIVES



## WETLAND RESTORATION

- WETLAND ENHANCEMENT AND CREATION
- SUPPORT WILDLIFE HABITAT & DIVERSIFICATION
- BANK STABILIZATION
- NATIVE PLANT COMMUNITIES





# PROJECT OBJECTIVES



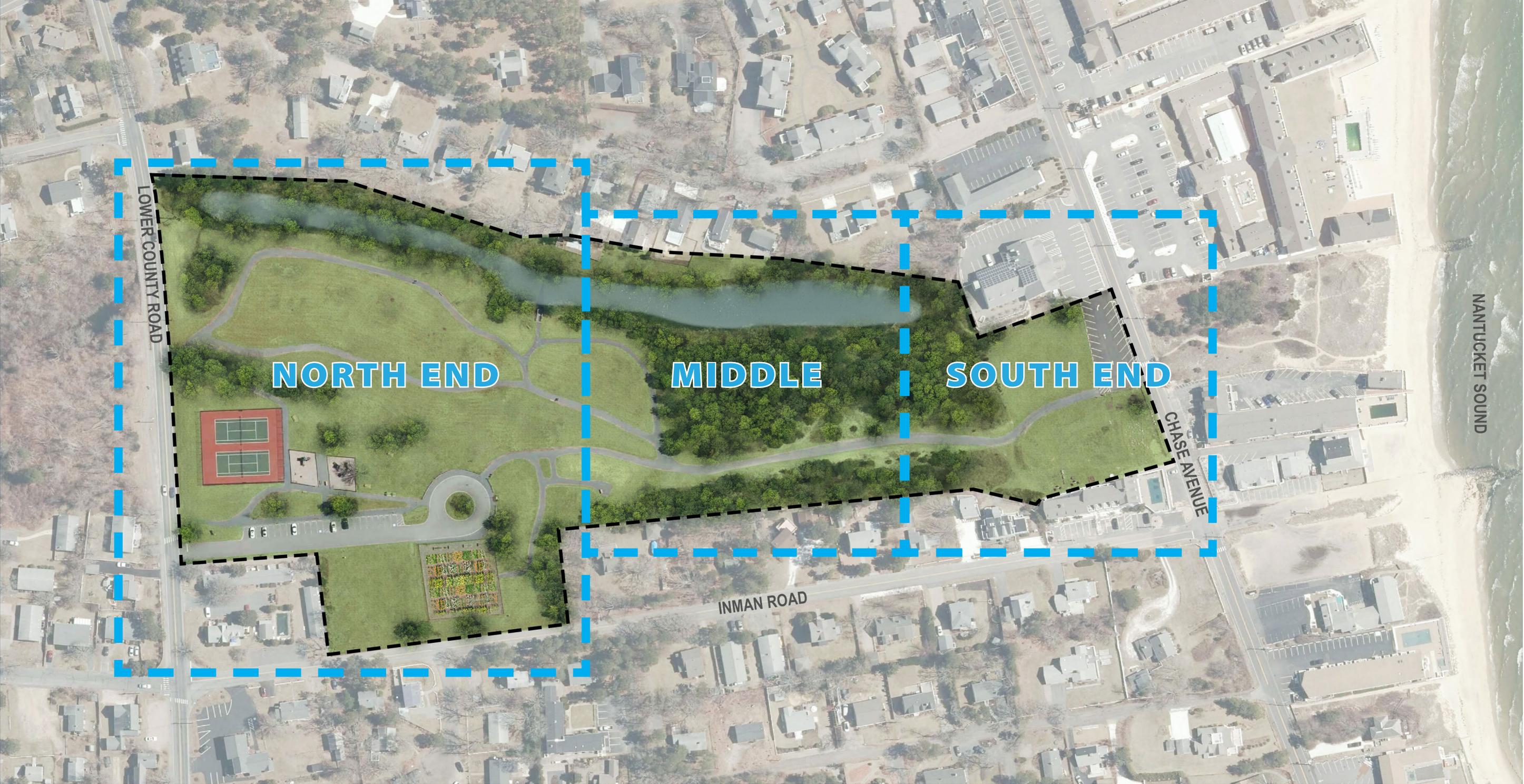
## PARK IMPROVEMENTS

- HOW CAN SEA VIEW PARK BE IMPROVED TO MEET THE COMMUNITIES NEED?
- UPDATE PARK FEATURES OR ADD NEW FEATURES
- OVERLOOKS & BRIDGES / CONNECTION BETWEEN USERS & NATURE





# PARK OVERVIEW





# PARK OVERVIEW





# PARK OVERVIEW

## NORTH END



- Parking
- Playground
- Tennis / Pickleball Courts
- Picnic Tables & Benches
- Community Garden
- Walking Paths
- Stream Channel
- Pond Overlook
- Central Meadow

## MIDDLE



- Walking Paths
- Turtle Nesting Area
- Osprey Nesting Platform
- Pound Pond
- Dense Vegetation

## SOUTH END



- Parking
- Walking Path
- Open Lawn
- Native Plantings
- Connection to Beach Path
- Drain Pipe



# WORKING SESSION

## NEXT STEPS

1. SHOW IMAGERY SLIDES
2. OPEN DIALOGUE

## WE WANT TO HEAR

1. LIKES OR DISLIKES
2. CONCERNS OR GENERAL COMMENTS
3. YOUR IDEAS!

## GOAL

1. GAIN INSIGHT
2. CREATE A COLLECTIVE VISION



# WORKING SESSION

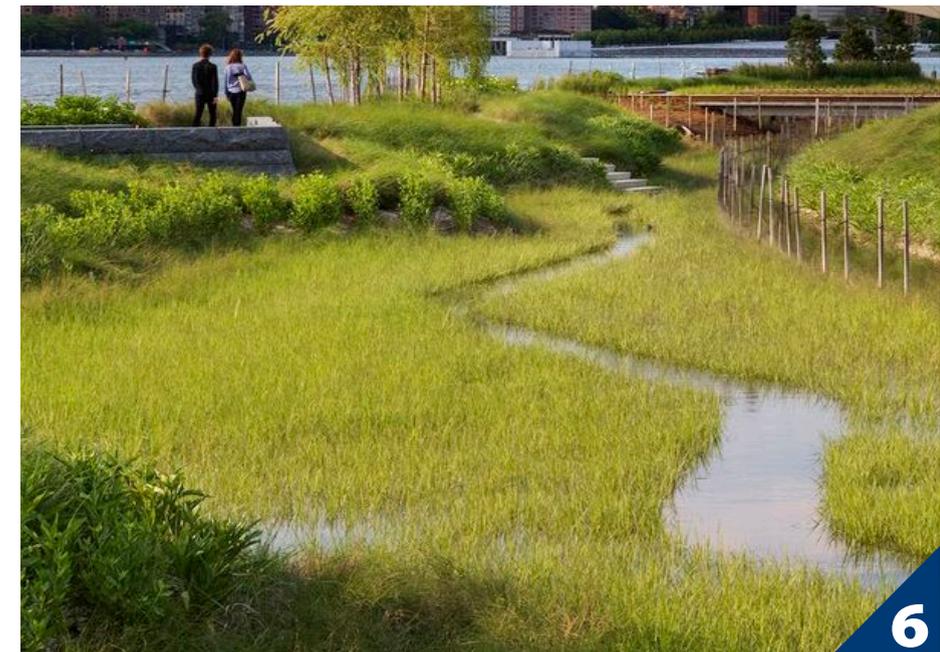
## ENVIRONMENTAL EDUCATION





# WORKING SESSION

## RESTORATION & WILDLIFE





# WORKING SESSION

## RECREATION & AMENITIES





# NEXT STEPS

**PHASE 2**  
**Permitting and Final Design**

**PHASE 3**  
**Bidding and Construction**



# THANK YOU!

**For more information please contact:  
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