



AGENDA

- Background and History
- Project Activities
- Design Ideas
- Projected Timeline
- Future Steps
- Questions & Answers

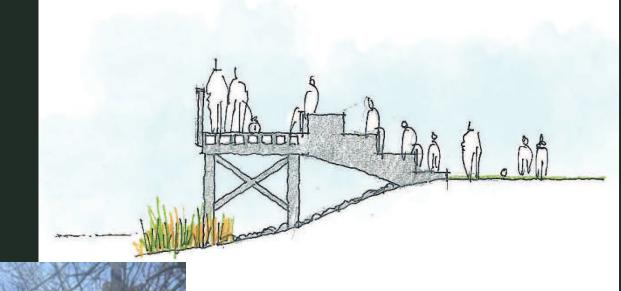
HISTORY

- The Riverfront MasterPlan Process identified several upgrades at Gibson Park
 - Resiliency and stormwater measures to mitigate severity of flooding and ameliorate changing climate conditions
 - Improve Recreational Facility to support a wider range of programming
- The City applied for and was awarded a Municipal Vulnerability Program Grant from the State to pursue this project



PROJECT ACTIVITIES

- 3 Community Forums –
- Site Survey and Wetland Delineation
 - Started in January
- Soil Borings and laboratory testing
 - Borings Performed first week of April
- Engineering Design Process
 - Park infrastructure
 - Stormwater Management
 - Resiliency Measures
- Landscape Architecture
 - Park Infrastructure
 - River's Edge
- Regulatory Review
 - Preliminary Meetings with Regulators
 - Preparation of Permit Packages
- Engineering Design Report







CREATE NEW SALTMARSH

- Natural Shoreline Protection against erosion and wave action
- Provides habitat
- Provide a soft, vegetated waters-edge
- Grading to allow for marsh migration with rising seas







STORMWATER MANAGEMENT

- On-site decentralized low impact strategies
 - Raingardens and Bioswales
 - Treat runoff close to the source, provide water quality treatment as well as control peak rates and volumes







STORMWATER MANAGEMENT

- Off-site (from the neighborhood) Subsurface storage and recharge
 - Use the space under the multi-purpose field and new courts
 - Retain water during higher ends of the tidal cycle
 - Install pump chamber with controls to move water



Image from ConTech

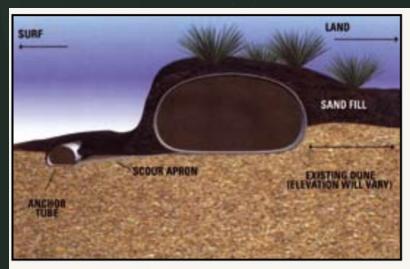




Image from StormTrap

FLOOD MANAGEMENT

- Provide Temporary Berm Protection along Mills Ave
 - Consistent with the Point of Pines/ Riverside Resilience Study
 - Will protect close to the project 10 yr storm in 2030
 - Create a stable vegetated berm along post and beam guardrail
 - Maintain access to River



TenCate Geotube® system sand dune cross section.







BOVE Slide from AECOM's presentation "Revere MVP Reslillency Recommnedations"

ELEVATED BOARDWALK

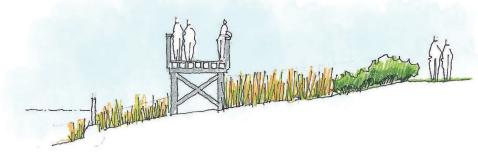
- Connections from the Boatworks to Gibson Point
 - Allow People to get out over the water
 - Resting Areas with Seating











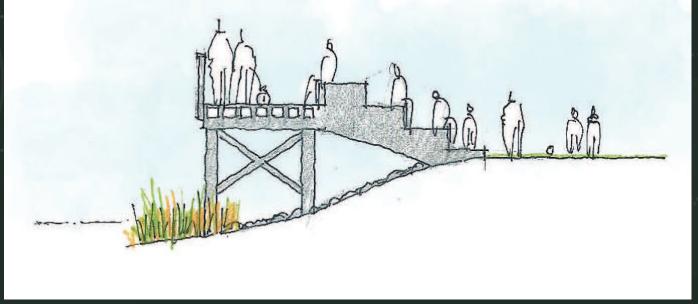


Multi-Purpose Field

- Resiliency Measures along the edge as well as underneath
- Stepped Seating areas provide storm surge protection and functionality







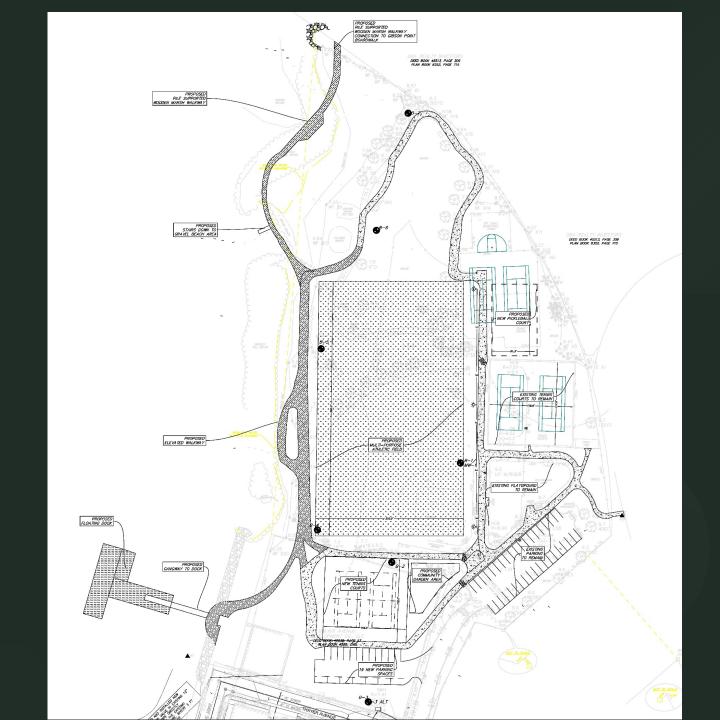
TIMELINE

Gibson Park Resiliency Project Timeline

		-														
6 month project timeline				1			Plan Du	ıration								
				Year	2022											
ACTIVITY	PLAN START (2 wk	DURATION	PERCENT COMPLETE	1	2	3	4	5	6	7	8	9	10	11	12	13
	periods)	(2 wk periods)	COMITETE	1-Jan	15-Jan	1-Feb	15-Feb	1-Mar	15-Mar	1-Apr	15-Apr	1-May	15-May	1-Jun	15-Jun	1-Jul
Wetland Delineation	1	1	100%													
Site Survey	1	4	100%													
Initial Community Forum	4	0	100%													
Boring and Soil Explorations	6	4	80%										<u> </u>			
Engineering Site Design	5	7	40%													
Landscape Architecture	7	6	15%													
Regulation Review	4	2	100%													
Pre-application meetings	7	0	0%													
Second Community Forum	8	0	0%													
Prepare Permit Packages	9	4	0%													
Engineering Design Drawings	7	6	30%													
Draft Report for Review	9	2	10%													
Third Community Meeting	11	0	0%													
Final Report	12	1	0%													

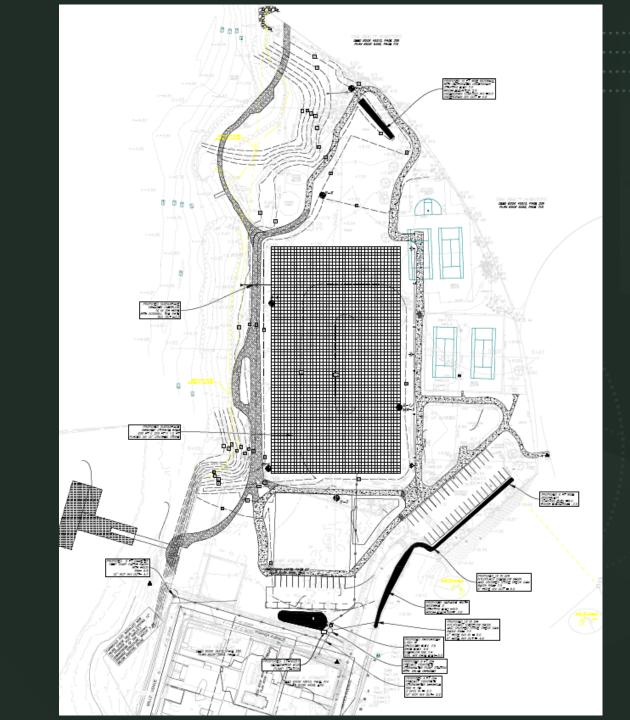
CURRENT DESIGN PLANS

Proposed Conditions



CURRENT DESIGN PLANS

Grading and Drainage



NEXT STEPS

- 1 More Community Forums May
- Continue Engineering Design Process
 - Use Groundwater and Soil Data to Size Infrastructure
- Landscape Architecture
 - Refine Park Infrastructure and Usage
 - River's Edge
- Park Infrastructure
 - Lighting
 - Court/Field Layouts
- Regulatory Review
 - Preliminary Meetings with Regulators
 - Preparation of Permit Packages
- Engineering Design Report





QUESTIONS AND ANSWERS



