

# **Resilient Portland**

#### Public Workshop

December 12, 2024







- Please provide feedback after the presentation. You will find information on how to give feedback at the end of the presentation
- We will take comments in the order hands are raised
- If calling in, dial \*9 to raise your hand and \*6 to unmute
- In order to allow everyone to speak, please try to limit your time to 1 minute
- The meeting is scheduled to end at 8:00 PM

Please note that this public meeting will be recorded, and the recording will be posted online shortly after.

## Agenda

Welcome and Project Introduction
Adaption Options Design Toolkit
Design Recommendations
Implementation & Next Steps
Discussion

### | **Project Introduction**



#### **Town of Portland**

Ryan Curley, First Selectman

Dan Bourret, Town Planner

Margot Burns, RiverCOG

Ryan O'Halpin, Director, Public Works Department

Sarah Elliot, Director, Senior Center

Scott Cunningham, Captain, Police Department

Jennifer Billingsley, Director, Portland Public Library

#### CIRCA

Mary Buchanan, Project Lead, Planner

John Truscinski, CFM, Director of Resilience Planning

Nicole Govert, Planner

#### AECOM

Lorayne Black, RLA, Project Manager

Geoffrey Morrison-Logan, Lead Urban Planner and Community Outreach

Catherine Ellenberg, EIT, Stormwater Management

Ellie Peterson, Landscape Designer

#### Introduction | Resilient Connecticut Background



#### Phase I

Resilient Connecticut Planning Framework

January 2020

#### Phase II

Resilient Connecticut Vulnerability Assessment Report Fall 2021

#### **Phase III** RESILIENT PORTLAND To be Completed January 2025

#### **Resilient Connecticut 2.0 Phase II**

**Regional Adaptation/Resilience Opportunity Areas** 

Name: Portland Critical Facilities Location: Portland

Consideration	Characteristics of Area			
Flood Vulnerability				
Heat Vulnerability				
Social Vulnerability				

Three of Portland's critical facilities and associated parking lots -- the police department, the library, and the senior center -- experience shallow pluvial flooding after intense precipitation events. The senior center is the cooling center, warming center, and public food pantry for Portland. The area that floods is a topographic depression located on the east of Main Street and the south side of Waverly Avenue. Middletown Area Transit bus access is located on Main Street, Route 66, and High Street. Resiliency solutions for the town could have key co-benefits to advance cooling opportunities along the pedestrian accessways from transit lines to the senior center.

Portland Senior Center Portland Police Department Portland Public Library Portland Town Hall Portland Care & Rehab Center Portland Company 1 Station Brownstone Intermediate School







### Project Overview | Study Area





#### **Project Overview** | Focus Area





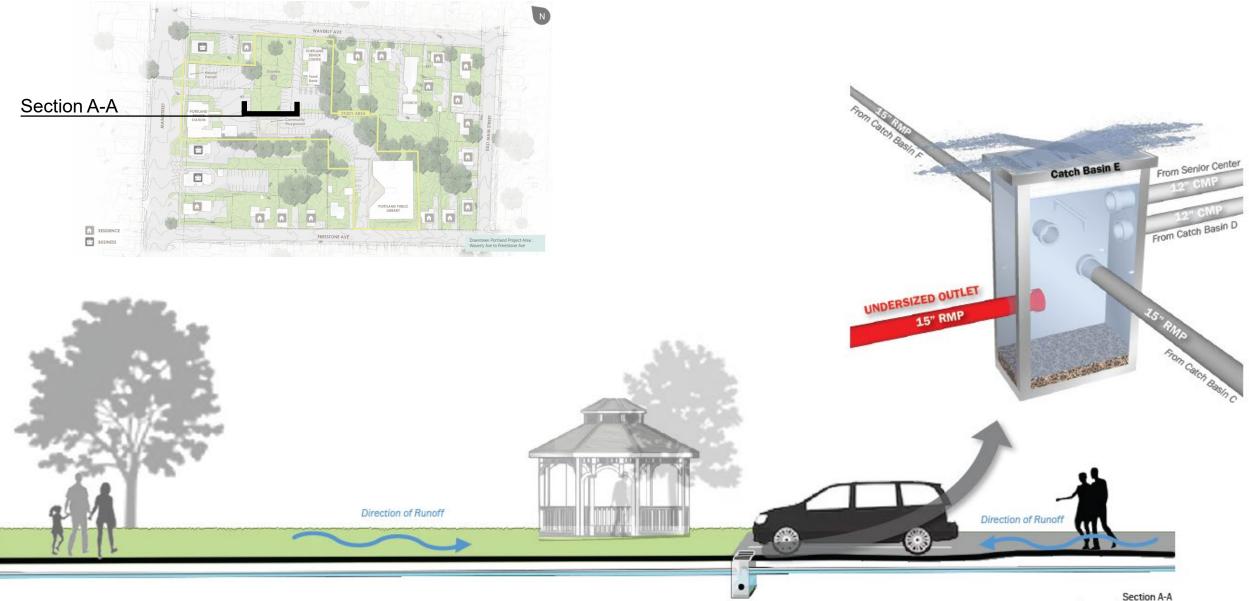
#### **Project Overview** | Existing Conditions





#### **Project Overview** | Existing Conditions





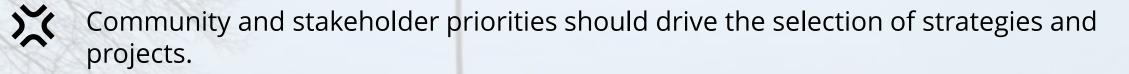
Section A-A \*For diagrammatic purposes only



#### **Project Objectives:**



Reduce flood impact on the critical facilities core of the Town of Portland from effects of excessive flooding and heat.



Develop plans to reduce the frequency, area and depth of flooding by reducing stormwater runoff



>

Apply future projections of precipitation events by years 2050 and 2100.



Reduce impacts of extreme heat for the community

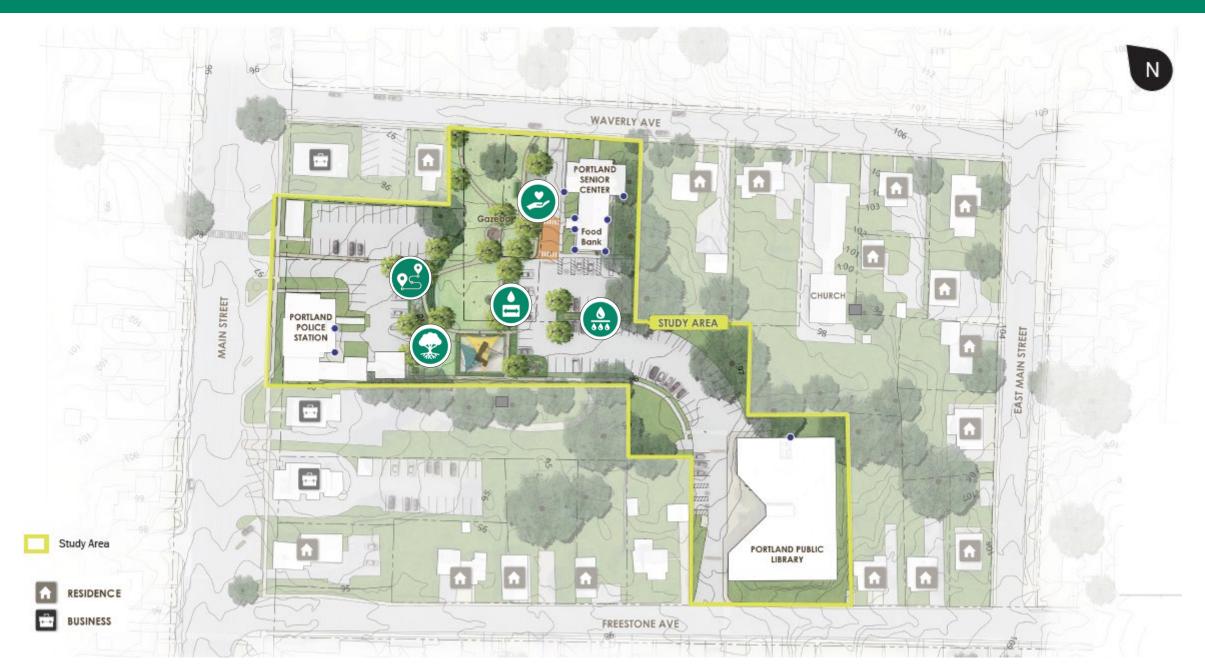
### **02** | Adaption Options Design Toolkit













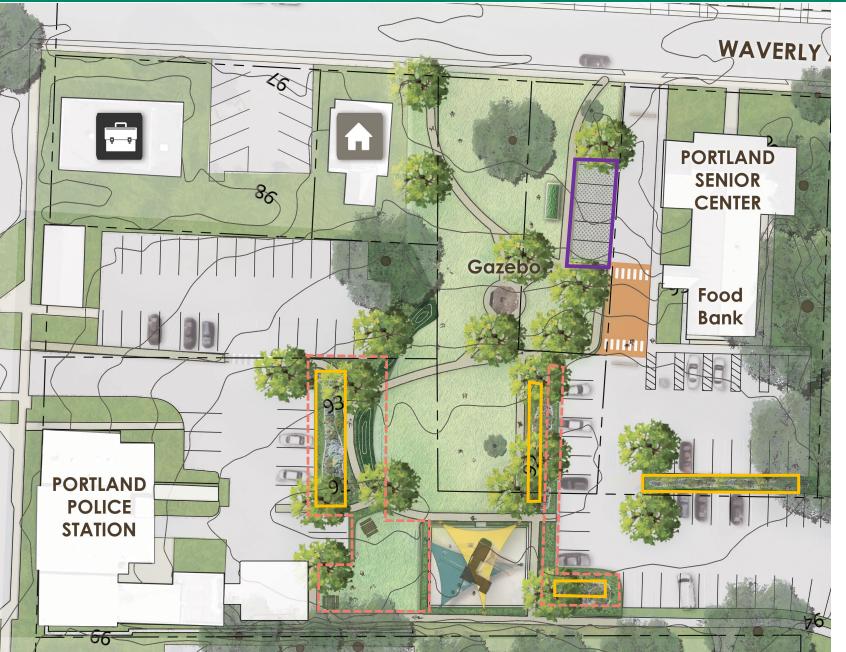




Increase capacity of stormwater system

Update flood modeling to address undersized pipe at **Catch Basin E** and conduct stormwater analysis to ensure optimal pipe configuration and materials



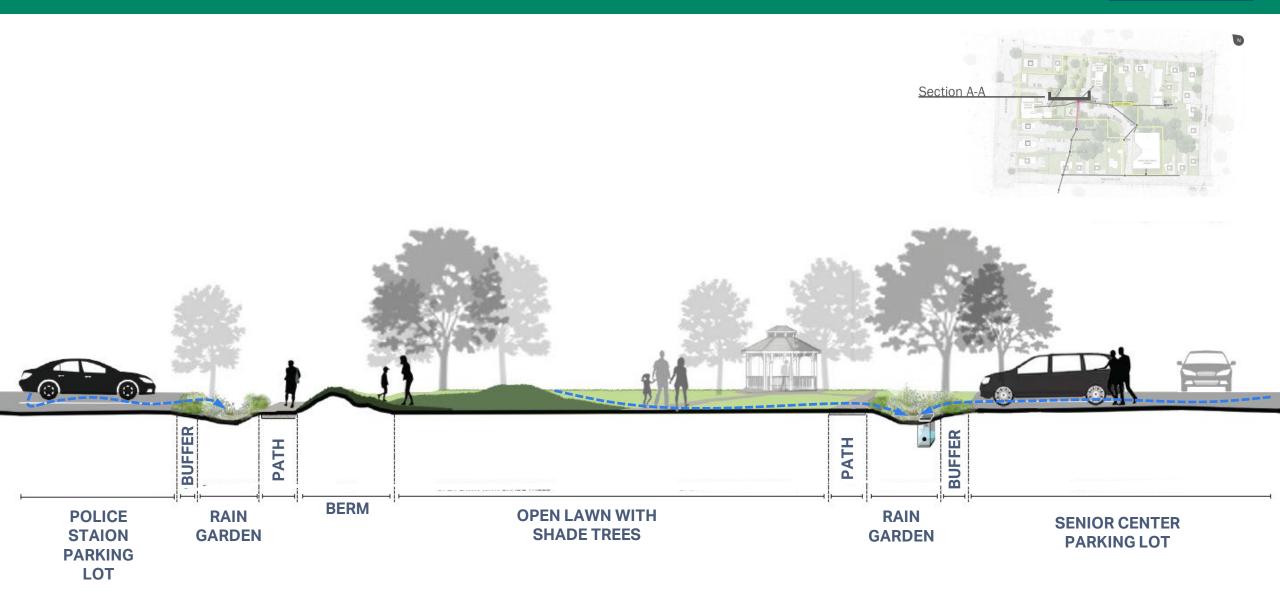




Reduce runoff that contributes to flooding

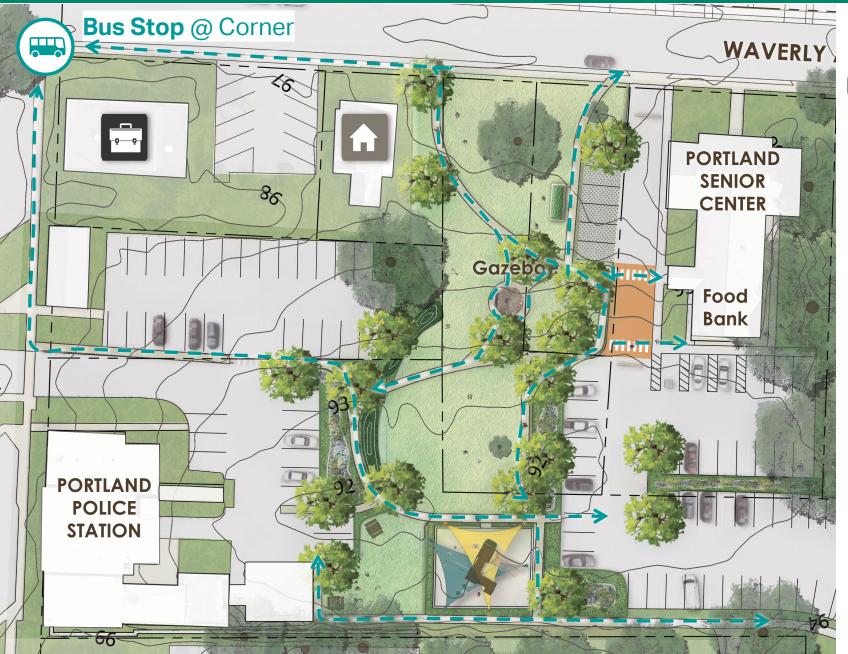
Provide additional strategies to manage stormwater through

- permeable paving
- bioretention beds
- --- reduction of impervious paving in parking lots (added green space)



AECOM







Improve neighborhood connections

Promote walkability through shaded pedestrian connections to neighborhood and transit

Proposed Pathways





TAKET

### Reduce impact of extreme heat



Provide **additional shade canopy trees** for pedestrians in public park



Provide **shade structures** in playground areas

Providing a healthy and safe environment for the community







Educate community about resiliency

Incorporate interpretive signage and stewardship opportunities



Interpretive signage suggested location



Public art community crosswalk, encourages local engagement and serves as a traffic slowly device









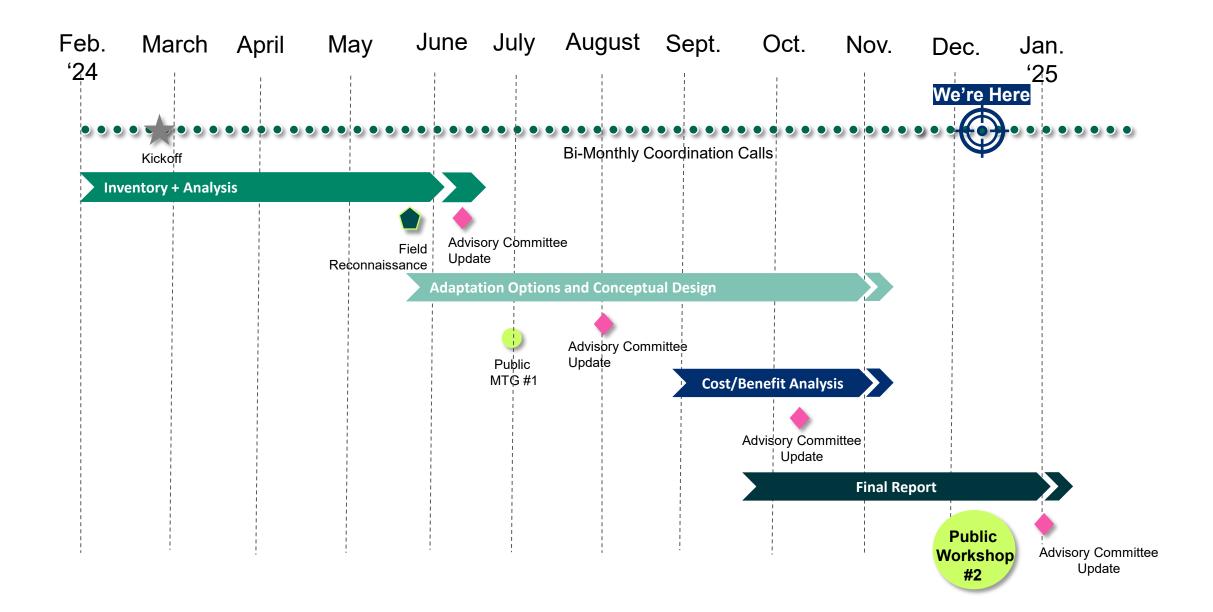




### 03 | Implementation Schedule + Next Steps

#### Schedule







#### **Draft Actions**

- 1) Finalize the Draft Report
- 2) Seek and secure funding to further develop the design
- 3) Update the future conditions flood model to right size the design elements by incorporating the recommendations from the draft flood modeling findings
- 4) Undertake schematic design and confirm project approach with Town Leadership and the Portland community
- 5) Refine costs and implementation steps
- 6) Advance the project through design development and construction documentation
- 7) Develop a plan to implement the project through construction

## **04 | Discussion**







Toolkit	Design Challenge	Solution
6	Increase capacity of stormwater system	Update flood modeling to address undersized pipe at Catch Basin E and conduct stormwater analysis to ensure optimal pipe configuration and materials
<b>0</b> <b>0 0 0</b>	Reduce runoff that contributes to flooding	Provide additional strategies to manage stormwater through permeable paving, bio- retention beds, and reduction of impervious paving in parking lots
	Improve neighborhood connections	Promote walkability through shaded pedestri- an connections to neighborhood and transit
	Reduce impact of extreme heat	Provide additional shade canopy trees for pedestrians in public park and playground areas, providing a healthy and safe environ- ment for the community
	Educate community about resiliency	Incorporate interpretive signage and steward- ship opportunities



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