

# Design of Renovations & Improvements at Page Park



Board of Park Commissioners | December 14, 2021

# PAGE PARK Design Team



**Cheri Ruane, FASLA**  
Principal-In-Charge  
25 Years of Experience



**Ryan Chmielewski, RLA**  
Senior Project Manager  
20 Years of Experience



**Jon Tunsky, RLA, CPSI**  
Senior Landscape Architect  
15 Years of Experience



**Lisa Slonus, PE, PTOE**  
Team Leader  
20 Years of Experience



**Joe Perugini, PE**  
Civil Engineer  
26 Years of Experience



**Chris Wester, PE**  
Regional Manager  
30 Years of Experience



**Frank Dawidowicz, PE**  
CE&I and Constructability  
45 Years of Experience



**Raju Vasamsetti, PE, CFM**  
Project Manager  
17 Years of Experience



# PAGE PARK Agenda

- Project Overview
- Site Context
- Basic Project Timeline
- Possible Enhancements
- Discussion



*experienced.....innovative.....responsive*

# PAGE PARK Master Plan Overview



# PAGE PARK Site Context



# PAGE PARK Watercourse Course



# PAGE PARK Viewsheds and Access



# PAGE PARK Natural Resources





# PAGE PARK Circulation, Parking + Traffic



- Internal and External
- Safety
- Connectivity
- Parking + Permitting



# PROJECTS LID + Stormwater



- Preserving or restoring a site's hydrology
- Reducing stormwater drainage footprints
- Promote infiltration + groundwater recharge
- Improving water quality + reducing nuisance flooding
- Disconnecting Directly Connected Impervious Area (DCIA)
- Meeting MS4 Permit Goals
- Educational Opportunities



## COST

**\$5 to \$30**  
per square foot

estimated cost of a  
bioretention area

([Massachusetts Clean  
Water Handbook](#))

## MAINTENANCE

- Bi-annual evaluation of vegetation health and replace if necessary.
- Monthly inspection for erosion and removal of invasive species and trash
- Annually re-mulch void areas and prune vegetation

## RESOURCES

CT NEMO (Nonpoint Education for Municipal Officials)

- [Rain Gardens & Bioretention](#)

Massachusetts Clean Water Toolkit:

- [Bioretention Areas & Rain Gardens](#)
- [Water Quality Swales](#)

MAPC Fact Sheets:

- [Bioretention Areas](#)
- [Vegetated Swales](#)

University of New Hampshire:

- [Regular Inspection and Maintenance Guidance for Bioretention Systems and Inspection Checklist](#)

## DESIGN RECOMMENDATIONS

Bioswales capture stormwater in depressions filled with sandy soil, topped with a thick layer of mulch, and planted with dense vegetation.

The design can incorporate components to increase drainage and prevent flooding.

Use native plant species to reduce the use of water and overall maintenance requirements.

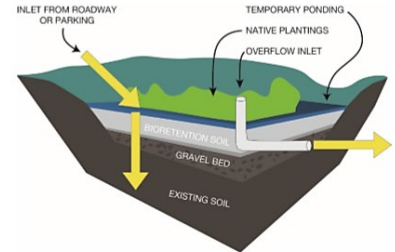


Image: W&S based on [Massachusetts Clean Water Handbook](#)

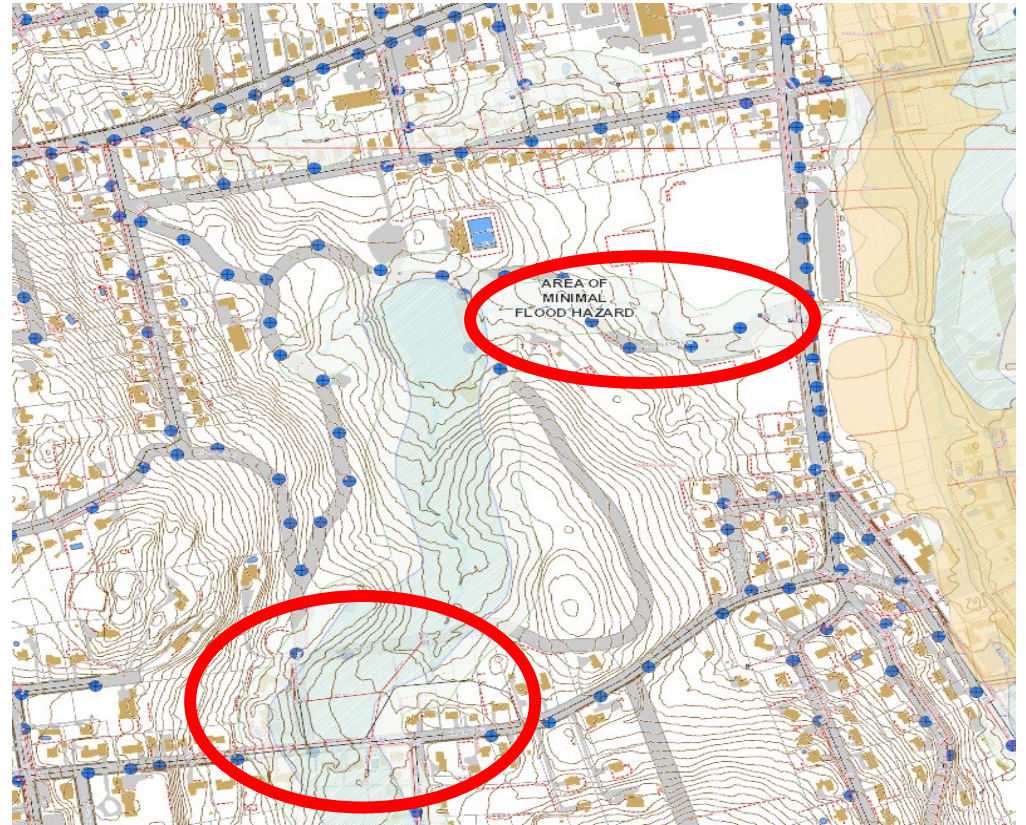
# PERMITTING + Natural Resources

## Natural Resources

- Wetlands
- NDDB
- Aquifer Protection Areas

## Permits

- Local – Planning, Zoning + IWWA
- State – CTDEEP + ACOE



Bristol GIS Mapping



# PAGE PARK Basic Project Timeline

Task	Approximate Timeframe*
Contract Negotiation	Nov 2021
1   Data Collection and Site Investigation	Dec 2021 - Jan 2022
2   Preliminary Design	Jan 2022 – Feb 2022
3   Schematic Design (25%)	Feb 2021 – Apr 2022 (P)
4   Design Development (60%-75%)	Apr 2022 - Sep 2022
5   Permitting & Site Plan Review	Oct 2022 – Jan 2023
PHASE I ONLY	
6   Final Design/ Contract Documents (100%)	Jan 2023 - Mar 2023 (P)
7   Bid Assistance	Apr 2023
8   Construction-Phase Services (Phase I Only)	May 2023 – Nov 2023
FUTURE PHASES	
Final Design/ CD's/Bidding/Construction Phases	TBD Based on available funding



# PAGE PARK Possible Enhancements

## Preliminary Thoughts

- Provide Open Green Space
- Support Pavilion and Pond Use
- Enhance Programming
- Promote Water Quality
- Promote Wildlife Habitat
- Provide Native Vegetative Buffer
- Parking Alternative





# Discussion