BATTERY PARK CITY

Ballfields & Community Center Resilience Project

> Interim Solution Design Status

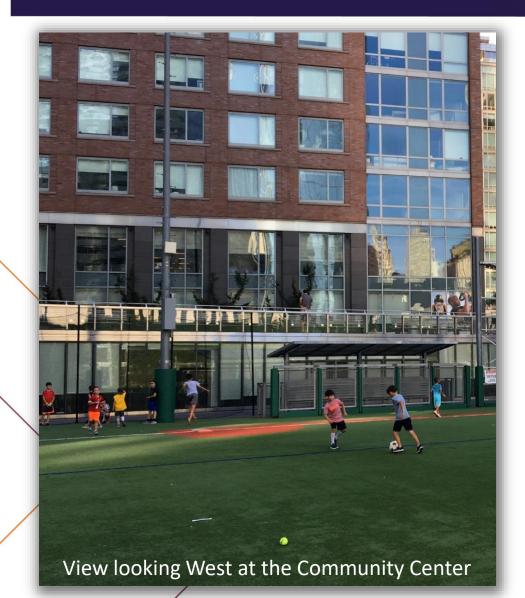
Community Board Meeting September 26, 2019



Battery Park City Authority

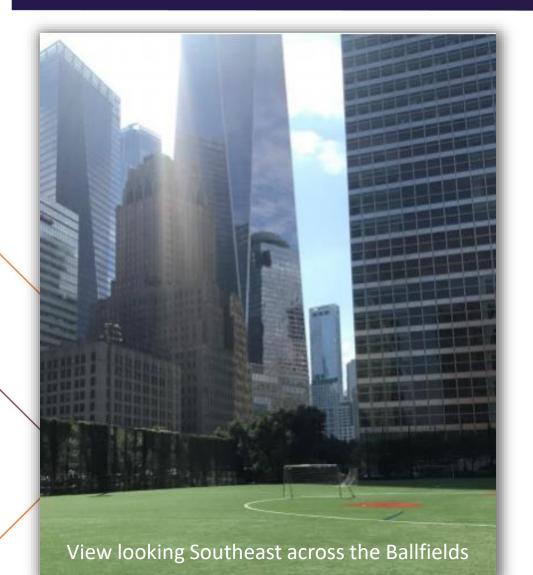


AGENDA



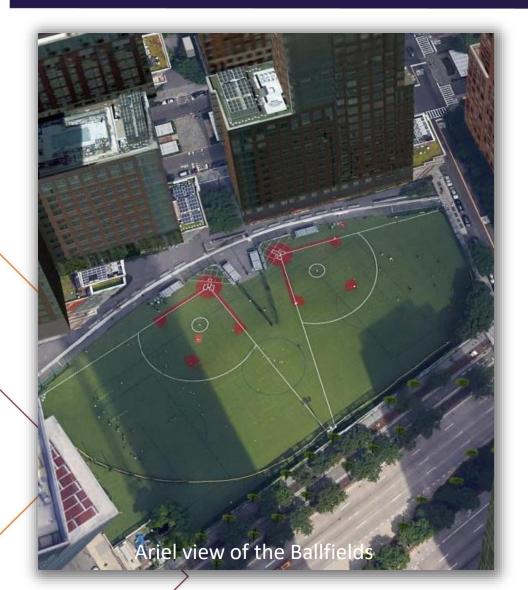
- Project Overview
- Guiding Objectives Review
- Interim Solution Design Overview
- Drainage Improvements
- Landscape & Aesthetic Finishes
- Community Center Protection Update
- Construction Logistics
- Schedule
- Next Steps
- Questions & Comments

PROJECT OVERVIEW



- Need for resilience
- Series of three previous meetings
 - Design requirements
 - Community input
 - Guiding Objectives

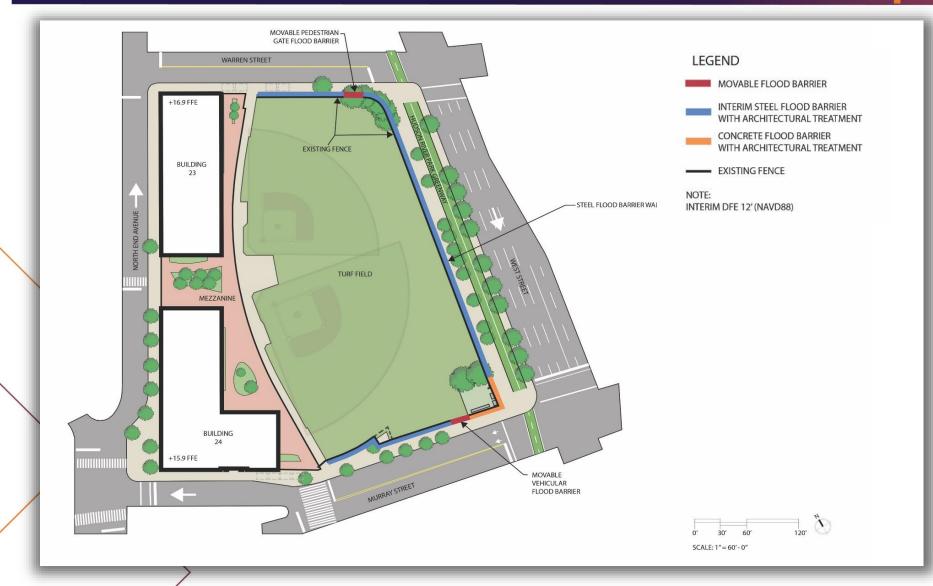
GUIDING OBJECTIVES REVIEW



- Flood risk
- Integration with landscape and built environment
- Minimize loss of field use and duration of construction
- Cost
- Schedule

INTERIM SOLUTION GUIDING OBJECTIVES

Guiding Objective	Interim Solution (DFE 12')
Flood Protection	Less than 10% chance of exceedance in 10 years
Integration with landscape and built environment	 5.4-foot max wall height Use of existing infrastructure Steel wall on all façades
Minimize loss of field use and duration of construction	6'- 8' of encroachment on field for grade beam operation total duration approx. 6 months
Cost	Est. \$4-5M
Schedule	Flood Protection by: Q2 2020



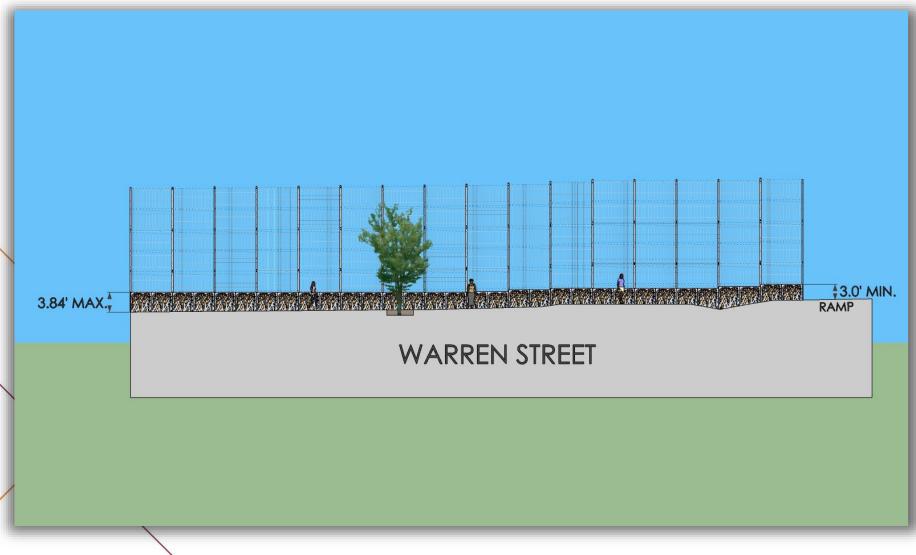


- Level of Protection
 - DFE 12' = BFE 11' plus 1' (no SLR, no Freeboard)
 - Max wall height is 5.4' to meet DFE and utilize existing infrastructure where feasible
 - Seepage not an issue (Seepage Analysis Findings)
- Reuse Existing Fence Foundations
- 1-inch Thick Steel Plate
- Alignment Exterior to Fence
- 2 Moveable Flood Protection Devices

- Minimum height of decorative panel is 3', maximum is 5.4'
- Design
 - Painted Concrete/steel plate
 - Finishes

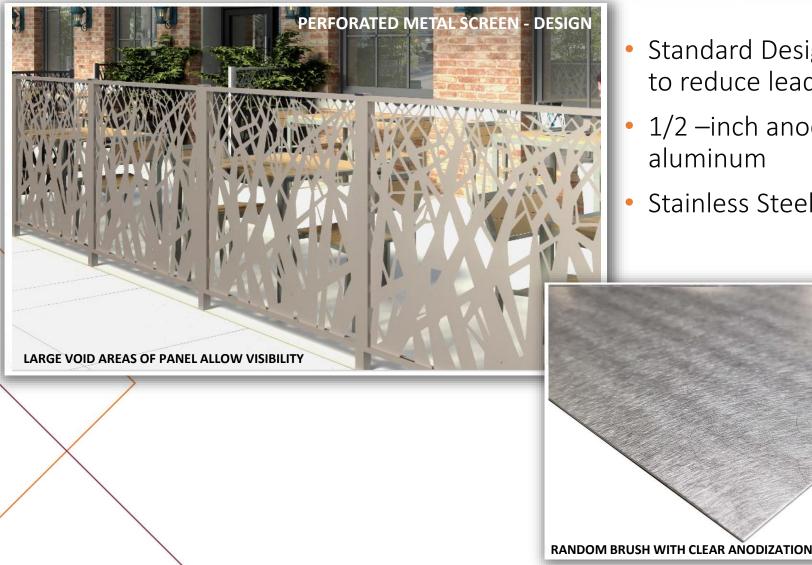












- Standard Design Opt. to reduce lead time
- 1/2 –inch anodized aluminum
- Stainless Steel Color



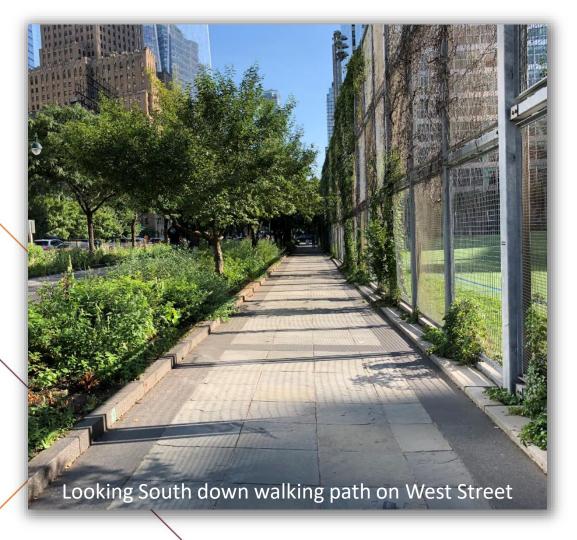
Aesthetics:

Panels step with grade change

Maintenance:

- 3" clear at the bottom of the panels to the pavement, allowing for easier removal of debris underneath
- Cover plate on top of the decorative panel to reduce the amount of debris falling between the panel and steel-plate surface
- Anti-graffiti

INTERIM SOLUTION DRAINAGE IMPROVEMENTS



- Improved walking path drainage on West Street
- New Catch Basins
- Opportunity to assess drainage conditions

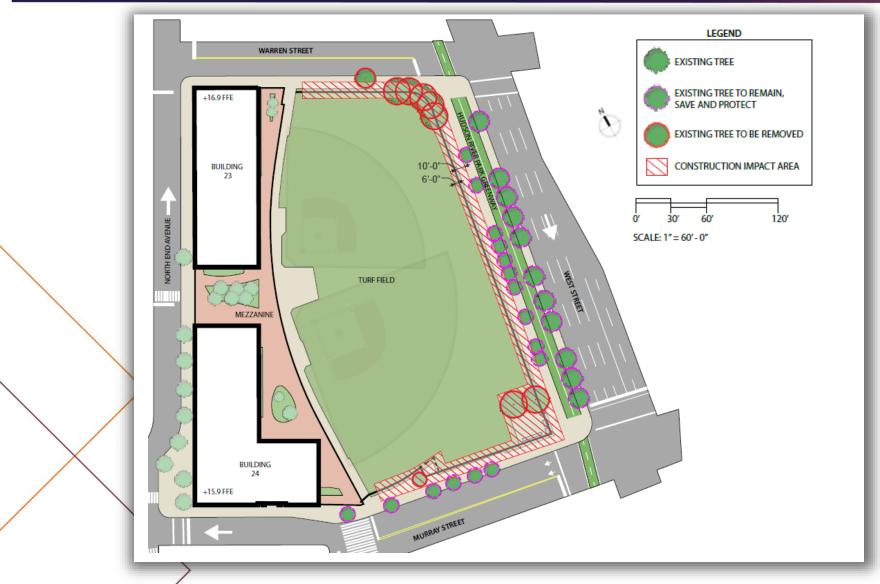
INTERIM SOLUTION LANDSCAPE & AESTHETIC FINISHES

• Trees

- Protect what is feasible, replace what is not
 - Use of air spades to protect roots
- 8 interior trees and 2 NYC Parks Dept. trees will be impacted
- Coordination with BPCA Horticulture team



INTERIM SOLUTION LANDSCAPE & AESTHETIC FINISHES

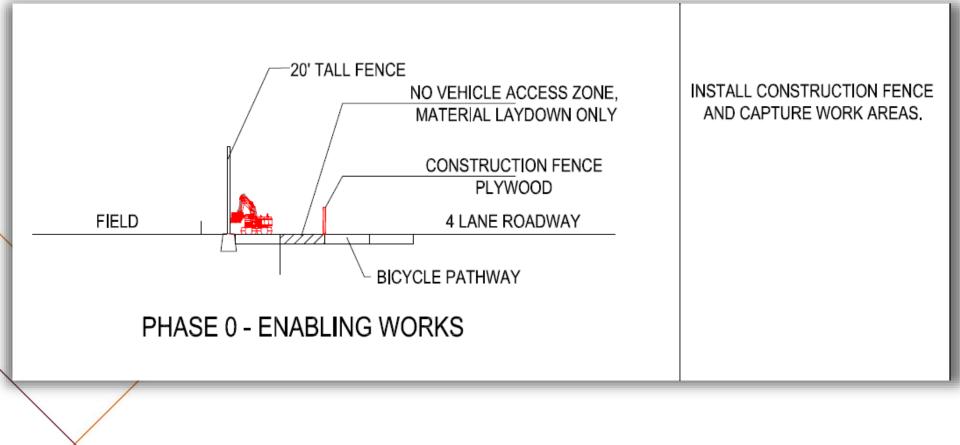


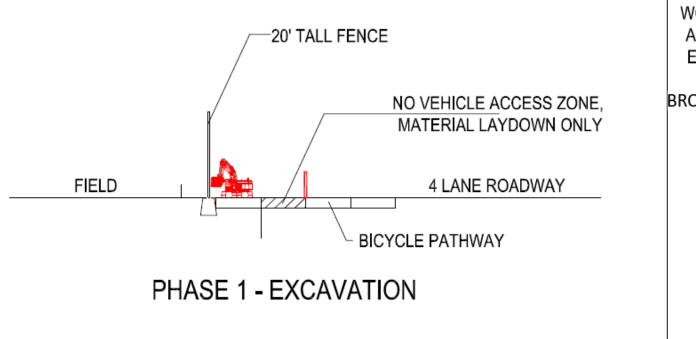
INTERIM SOLUTION LANDSCAPE & AESTHETIC FINISHES



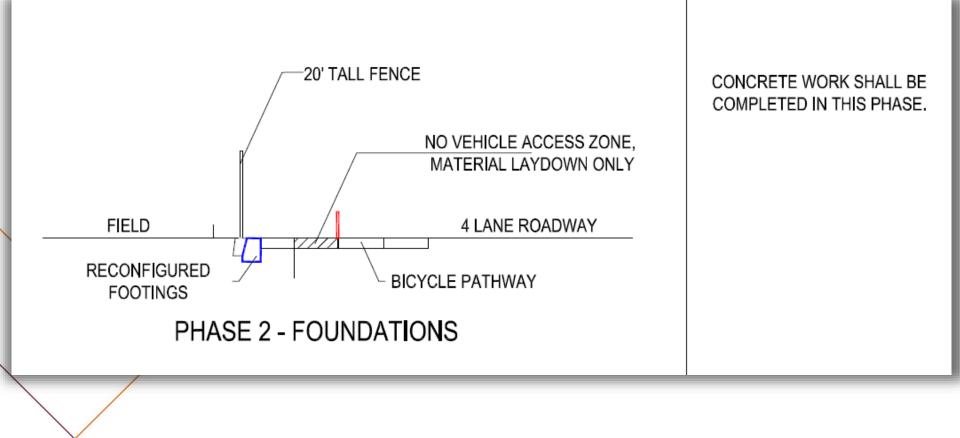
- Vines
 - Project will replace in kind

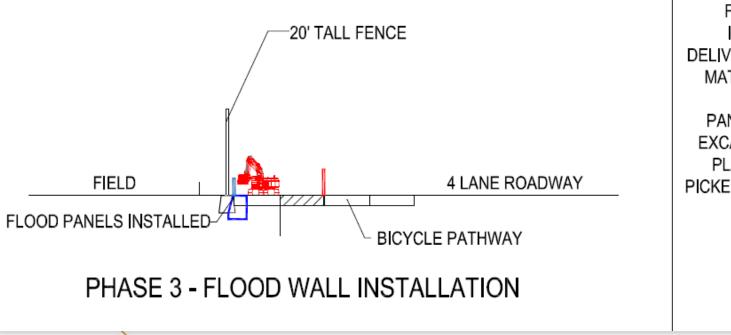
- Construction Logistics
 - Ballfields operable during construction
 - Best efforts to minimize footprint of staging areas by contractor (likely to be located within parking lane on Warren Street and/or Murray Street)
 - Direct load to install panels where feasible
 - Temporary closure of West Street walking path, bike path to remain open
 - Work from mid-point along West Street both North and South to minimize construction duration





WORK TO BE COMPLETED WITH A MINI EXCAVATOR AND HAND EXCAVATION. ANY DEBRIS TO BE REMOVED SHALL BE BROUGHT TO THE STAGING AREA FOR HAULING.





FLOOD PANELS TO BE INSTALLED SHALL BE DELIVERED TO AND STAGED ON MATERIAL LAYDOWN AREA.

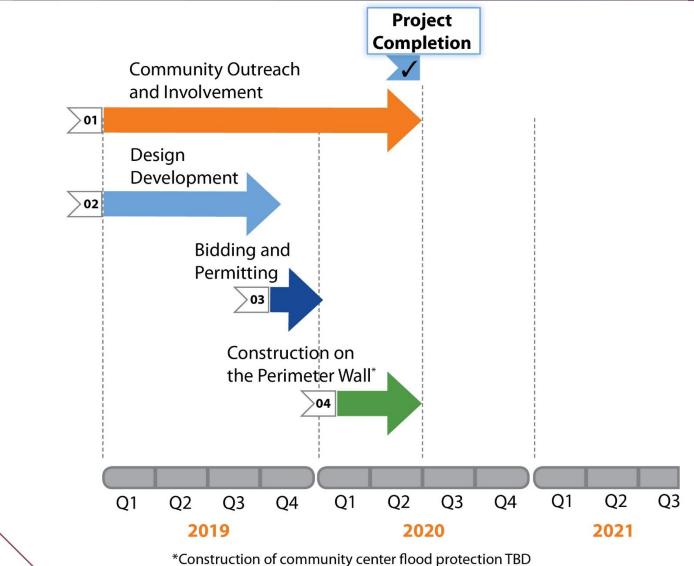
PANELS CAN BE LIFTED BY EXCAVATOR TO SET THEM IN PLACE. A SMALL CHERRY PICKER MAY BE REQUIRED. TBD.



INTERIM SOLUTION COMMUNITY CENTER PROTECTION



INTERIM SOLUTION SCHEDULE



INTERIM SOLUTION SUMMARY



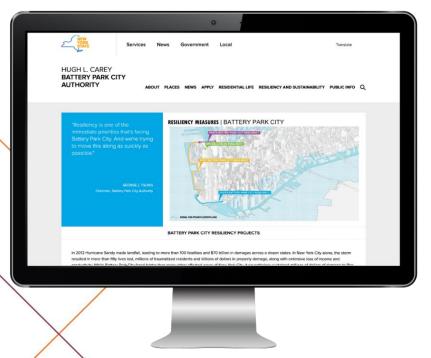
The Interim Solution:

- 1. Protects the Ballfields & Community Center
- 2. Flood protection in Q2 2020!
- 3. Costs significantly less than other solutions
- 4. Integrates into Battery Park Resiliency Plan
- 5. Minimizes disruption to ballpark activity
- 6. Has less of a visual impact with a 5.4' wall
- 7. Addresses drainage issues along walking path at West Street
- 8. Visually appealing & attractive
- 9. The project includes YOUR input

INTERIM SOLUTION NEXT STEPS

- Refine Design
- 95% Design of Ballfields Steel Barrier
- Finalize Community Center Flood Protection
- Contractor RFP

CONNECT Follow the Project



- Follow construction updates and sign-up for the newsletter online: <u>https://bpca.ny.gov/nature-andsustainability/resiliency/</u>
- Email your comments or suggestions: info.bpc@bpca.ny.gov
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