

Summary of the East Side Coastal Resiliency Project

This document summarizes key differences between the previous and current approach to delivering the East Side Coastal Resiliency project. **DISCLAIMER:** Current approach is up to date as of 6/17/19 but subject to change.

Element	Previous Approach	CB 3 Approved?	Current Approach	Changes
Construction Duration	5 years	n/a	3.5 years. Storm protection in place by hurricane season 2023.	1.5 year decrease
Duration of East River Park Closure	Park closure for 5 years.	n/a	Park closure for 3.5 years, including esplanade due to reconstruction.	1.5 year decrease
Design	Line of flood protection is located on western side of park; extensive use of levees and earthwork floodwalls along FDR Drive	n/a	Park is elevated 8-9 feet above current elevation to 16.5 feet NAVD88; Flood protection system is installed below grade; Line of flood protection is moved eastward in to park	Floodwall moves from west side of park to east side; Park is raised 8-9 feet
Park Resiliency	Portions of the park remain in the current and future 100-year floodplain, with remaining trees within floodplain at risk due to threat of saltwater inundation. Esplanade exposed to daily tidal flooding risk due to sea level rise by end of century. Bulkhead would need to be fixed within next decade—requiring future park closures.	n/a	Park raised above the current and future 100-year floodplain, including sports fields, playgrounds, and comfort stations. Bulkhead is reconstructed and elevated, avoiding future park closures; esplanade and park ecology not at risk of daily tidal flooding due to sea level rise.	Raises park fully above 100 year floodplain and eliminates future risk of tidal flooding
Level of Protection	Neighborhood: 100-year coastal storm surge + 30" sea level rise (2050s) + wave action and freeboard (16.5 ft NAVD88) East River Park: remains largely in floodplain	n/a	Neighborhood: 100-year coastal storm surge + 30" SLR (2050s)+ wave action and freeboard (16.5 ft NAVD88) East River Park: 100-year coastal storm surge + 30" SLR (2050s)+ wave action and freeboard (16.5 ft NAVD88)	Neighborhood: No change East River Park: Protected from floodplain
Construction Risk	Proximity to FDR Drive requires working within roadway closure hours Construction adjacent to Con Edison live transmission lines.	n/a	Staging and construction execution happens within the park Reduced construction adjacent to Con Edison live transmission lines	Reduced FDR closures Reduced risk of impacting Con Edison transmission lines Staging inside park
Construction Methods	Pile driving and floodwall construction along FDR Drive near residential buildings, including NYCHA, requiring long durations of overnight work and lane closures. Truck delivery of equipment, landscape and park building materials. Pedestrian bridge construction requires short-term FDR Drive closures. Interior drainage construction in roadways and right-of-way.	n/a	Water-side construction of esplanade and waterfront structures. Pile driving of flood protection within the park, away from residential units. Pile driving and floodwall construction south and north of East River Park remain Barge delivery largely reduces truck delivery of equipment and materials Pedestrian bridge construction requires short-term FDR Drive closures Interior drainage construction in roadways and right-of-way	Less construction traffic on FDR Drive-side and residential areas; more water-side construction access Pile driving occurs further from residential areas

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Cost	\$1.2B (\$760M Budgeted) HUD: \$338 M	n/a	\$1.45B HUD: \$338M	\$0.25B cost increase
Park Access	Bridge reconstruction: Delancey Street Bridge; East 10th St. Bridge Access Improvements: East Houston Street overpass landing on park side	n/a	Bridge reconstruction: Delancey Street Bridge; East 10th St. Bridge; Corlears Hook Bridge Access Improvements: East Houston Street overpass landing on park side	1 additional bridge reconstruction (Corlears Hook)
Impact to Trees Across Entire Project Area	776 trees removed 1,180 trees planted Remaining trees stay in floodplain; at risk to future saltwater inundation	n/a	981 trees removed 1,442 trees planted All trees will be out of the floodplain; not subject to saltwater inundation	205 more trees removed; 262 more trees planted; all trees now outside of floodplain
Overall Sewer System Infrastructure	Floodproof more existing sewer infrastructure and rerouting more storm drainage on the western, residential side of the park. Minor reconstruction of water and sewer infrastructure in East River Park. Replacement of tide gates on outfalls.	n/a	Full reconstruction and reconfiguration of East River Park's underground sewer and water infrastructure, including outfalls and their tide gates within the park; Minor modifications to existing sewer system outside of park.	Increased sewer reconstruction in East River Park; Reduced modifications outside of park.
East River Park Drainage	Reconstruct portions of drainage system within park	n/a	Full reconstruction of drainage system and reconstruction of sewer outfalls within the park.	More drains and sewer outfalls within park are reconstructed
Flyover Bridge	Not in prior design.	n/a	Fully funded key bridge connecting the north end of East River Park with Captain Patrick J. Brown Walk, with key structural elements constructed in ESCR program.	1 additional flyover bridge
Direct Waterfront Access (East River)	Existing esplanade remains as is, needs future repairs.	n/a	Reconstruction of esplanade, including relocation of embayments with direct waterfront access.	Full reconstruction of esplanade with direct access to water
Open Space	Active: 51.53 acres; Passive: 39.15 acres; Total: 90.68 Acres	n/a	Active: 54.4 acres; Passive: 36.28 acres; Total: 90.68 Acres	Increase active open space by 2.87 acres; decrease passive open space by 2.87 acres
10th Street Playground	10th Street playground remains the same	n/a	10th Street playground is expanded, with more space for both younger and older children	Expansion of 10th Street playground
Active Programmed Space	Loss of one ball field; reconfiguration of tennis courts, basketball courts, and athletic fields; Loss of basketball courts near 10th Street.	No	Relocate and reconstructed ampitheater; Loss of one ball field; relocation of basketball courts and multi-use turf field; relocation of ball fields 3-6	No additional loss of fields; different configuration of fields and relocated/reconstructed ampitheater; basketball courts will remain north of Houston near 10th Street and south of Houston St near Delancey.