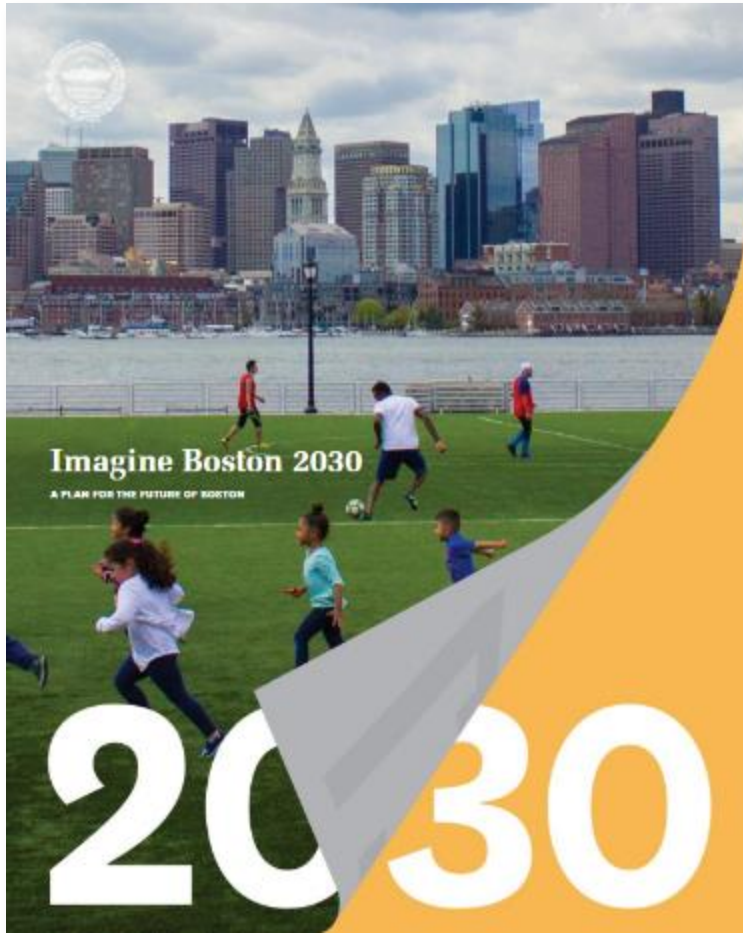




City of Boston Flood Resiliency Zoning Overlay District and Design Guidelines



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RESILIENT BOSTON HARBOR



• FLOOD ADAPTED BUILDINGS

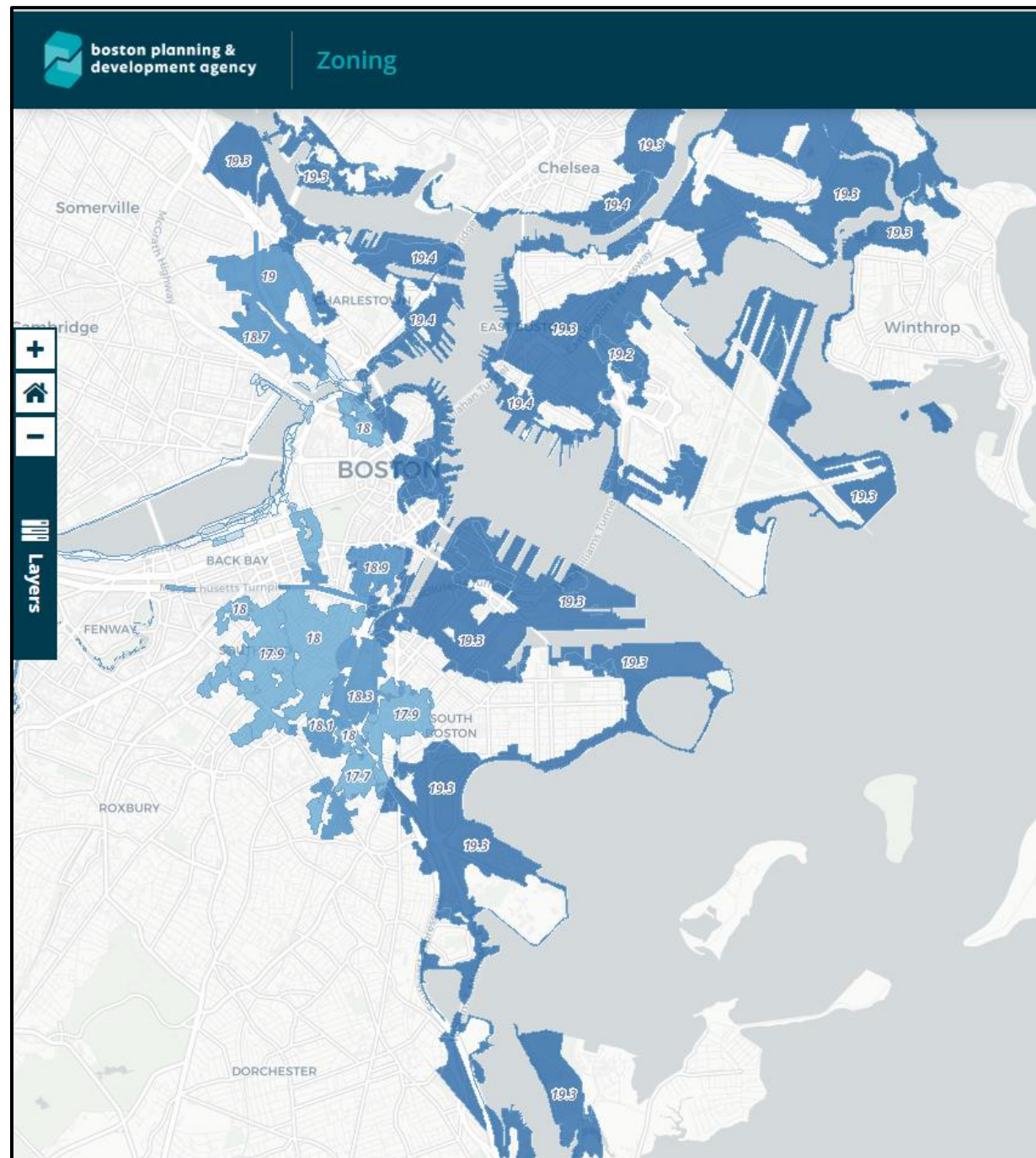


= ELEVATED LANDSCAPES



= CONNECTIONS AND ACCESS

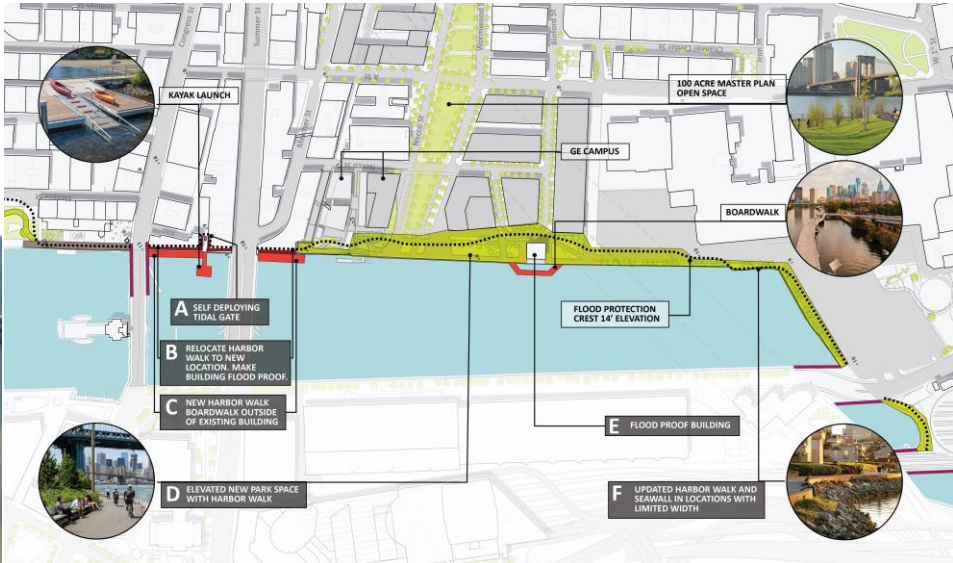
BPDA Resiliency Checklist – Sea Level Rise Flood Hazard Map



Climate Ready Boston Coastal Resilient Solutions for East Boston 2016



Layered Protections



Zoning Scope

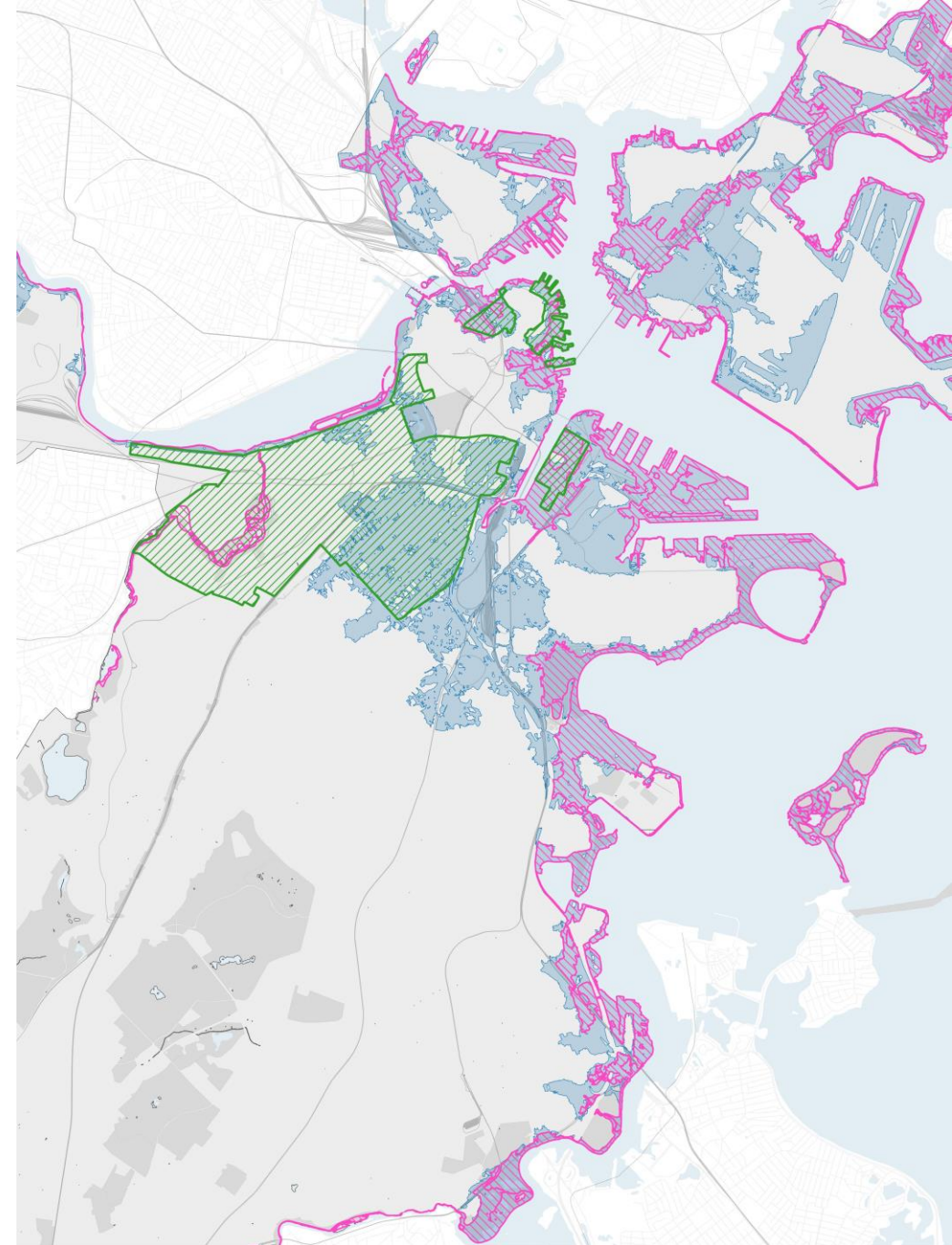
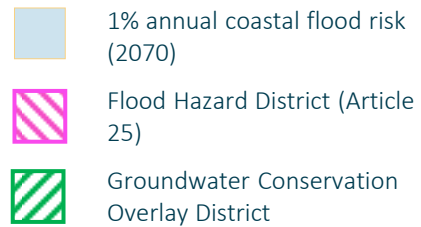
- Underlying zoning dimensional and use requirements and how these standards may need to be modified to address a design flood elevation based upon future sea level rise.
- Elevation transitions from public ways to new site and building conditions and the implications for zoning setback and site coverage.
- Floor Area Ratio modifications for new and existing buildings to address removal of occupied space in vulnerable areas to accommodate transitional structures such as stairs and ramps within a building.
- Potential for waterfront sub-districts to address flood pathways and district-scale coastal flood protection infrastructure. Building height and density as they relate to value capture.
- Higher level of building sustainability and LEED certification required within an Overlay.
- Updates to Article 80 and Planned Development Area policy and standards to better address resiliency.
- Address flexibility for updates based upon new climate science, data and modeling of sea level rise.

Guideline Scope

- Review resiliency design guidelines developed regionally and nationally.
- Identify primary building typologies within Boston's 40-inch Sea Level Rise Flood Hazard Area model.
- Develop building topology design guidelines and best management practices for building resiliency.
- Identify a methodology of how design performance standards can be integrated into retrofit projects, including historic buildings.
- Identify design measures necessary to transition from street and sidewalk elevations to higher building ground floor elevation to encourage a quality streetscape and address accessibility challenges.

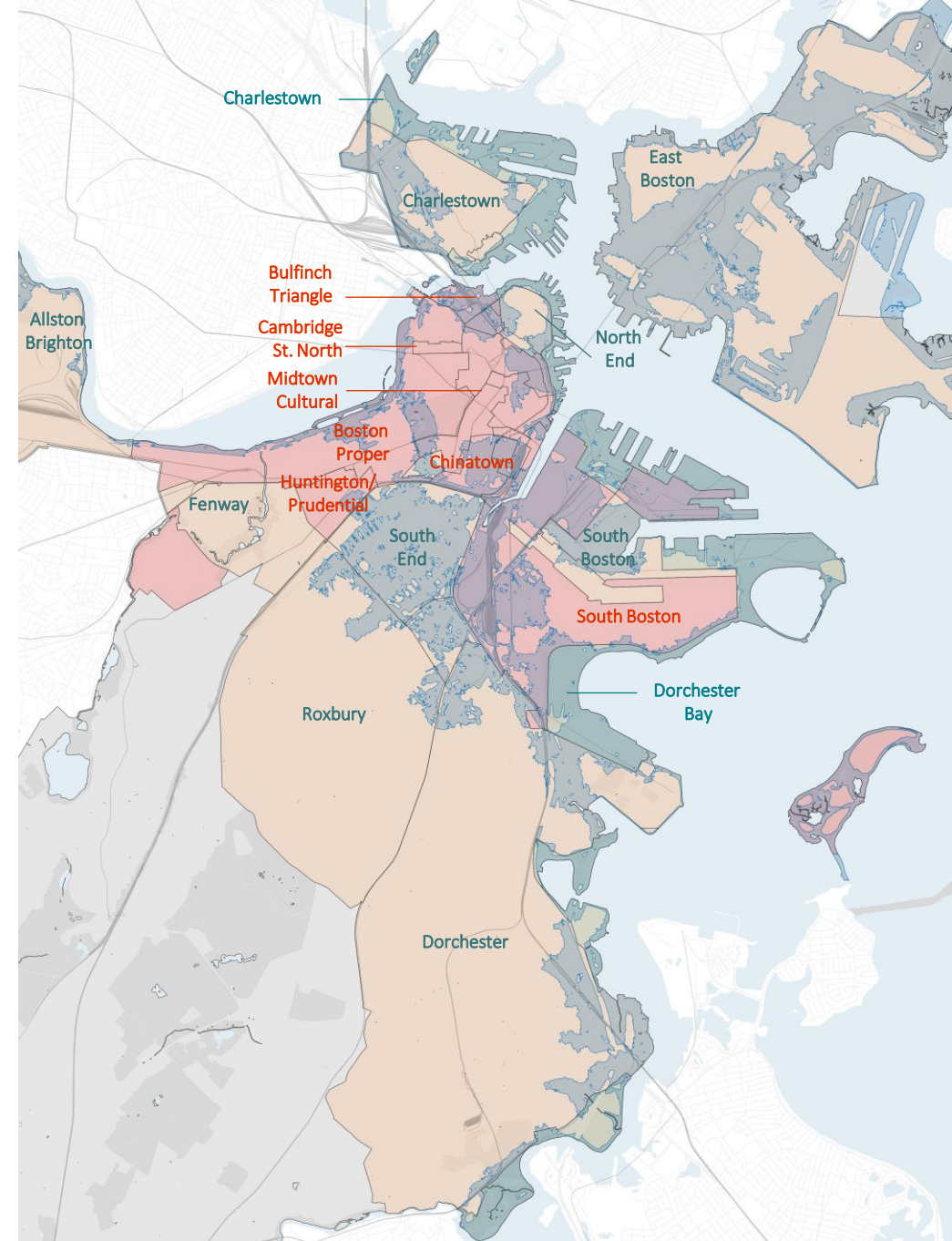
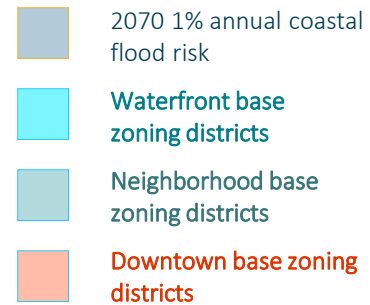
Identify requirements and conflicts

- City Zoning



Identify requirements and conflicts

- City Zoning



Potential Building Typologies in the 2070 floodplain



Detached two-family
(Dorchester)



Triple decker
(East Boston)



Attached multi-family
(South End)



General industrial
(Dot Ave, South Boston)

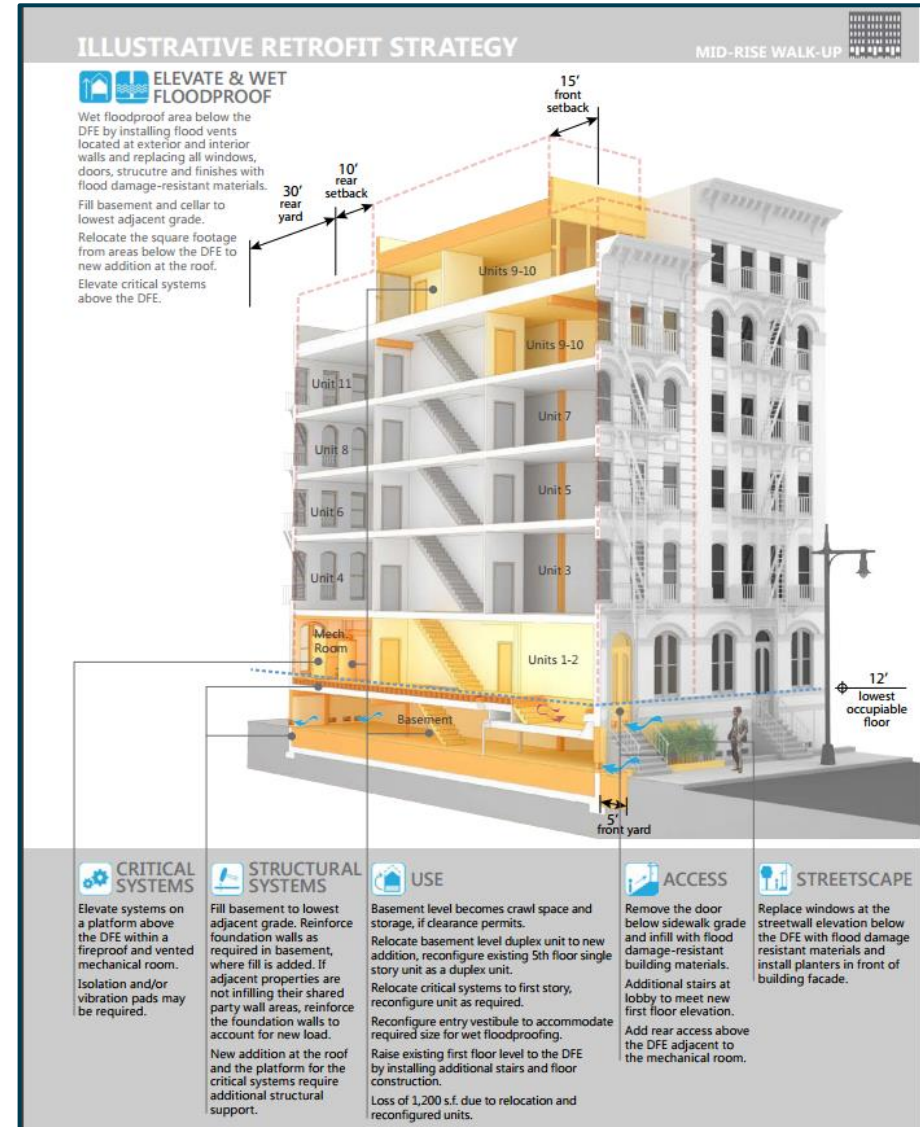
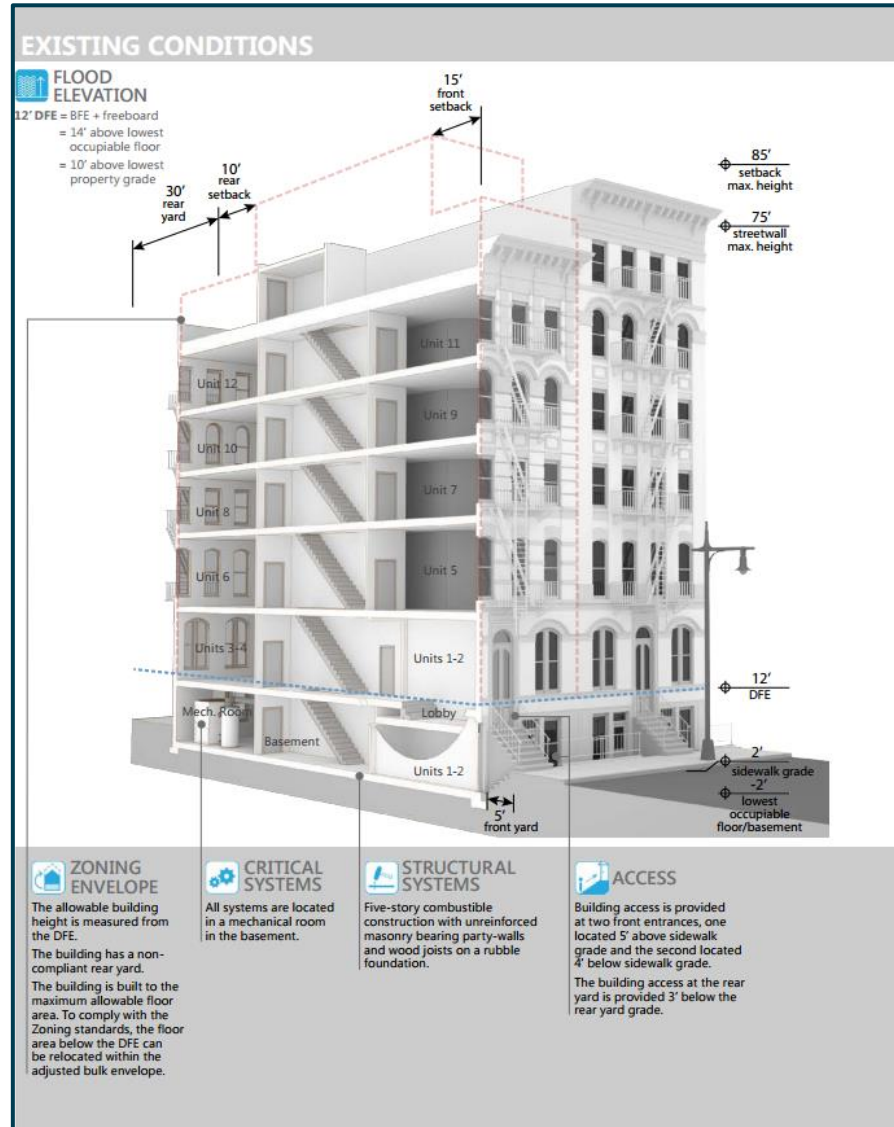


Pre-war commercial / wharf buildings
(South Boston Waterfront, Financial district, North End)



Contemporary high-rises
(Financial district, South Boston Waterfront)

NYC Planning – Coastal Climate Resiliency: Retrofitting Buildings for Flood Risk





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