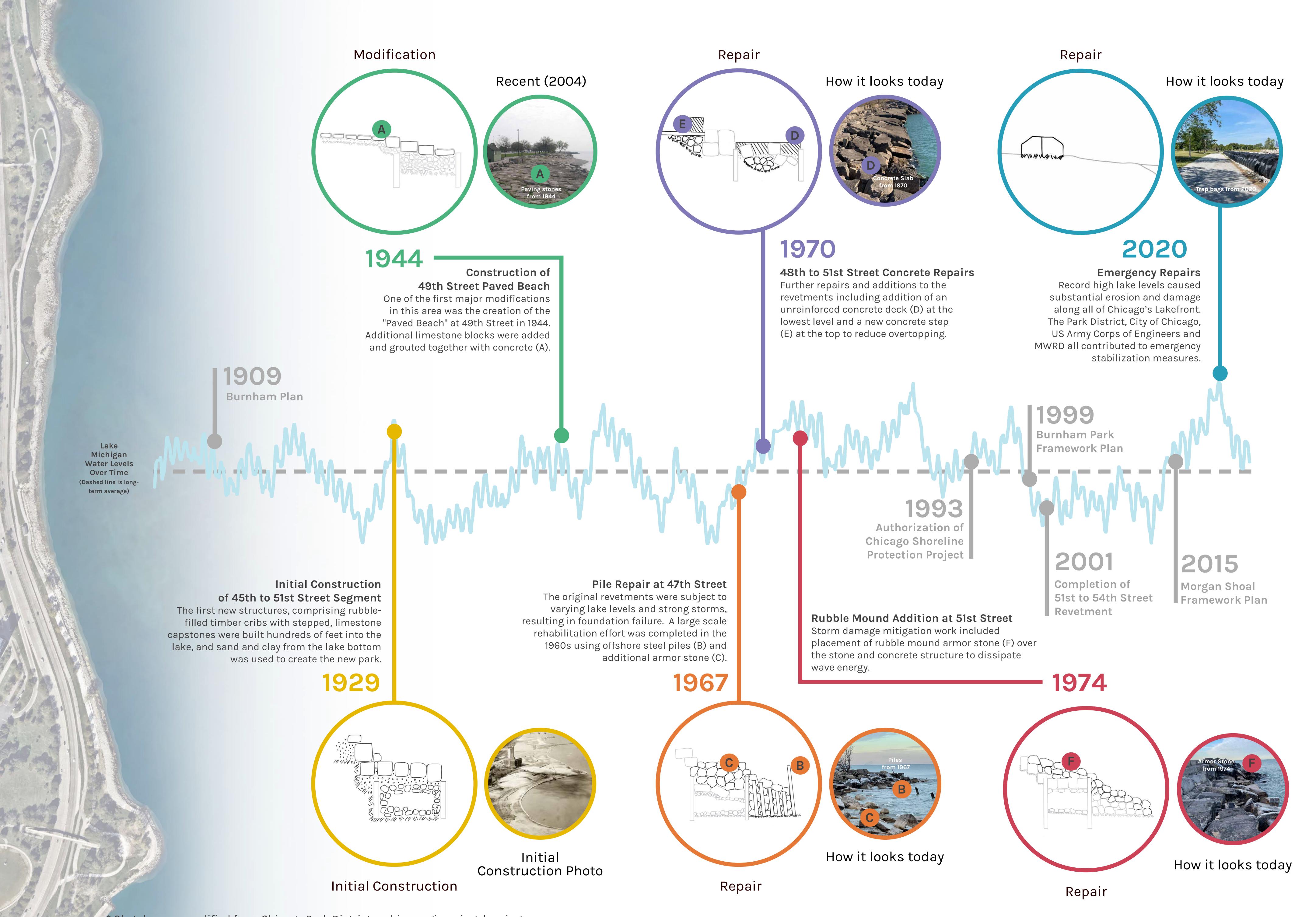
1. MORGAN SHOAL SHORELINE HISTORY



* Sketches are modified from Chicago Park District archive engineering drawings.







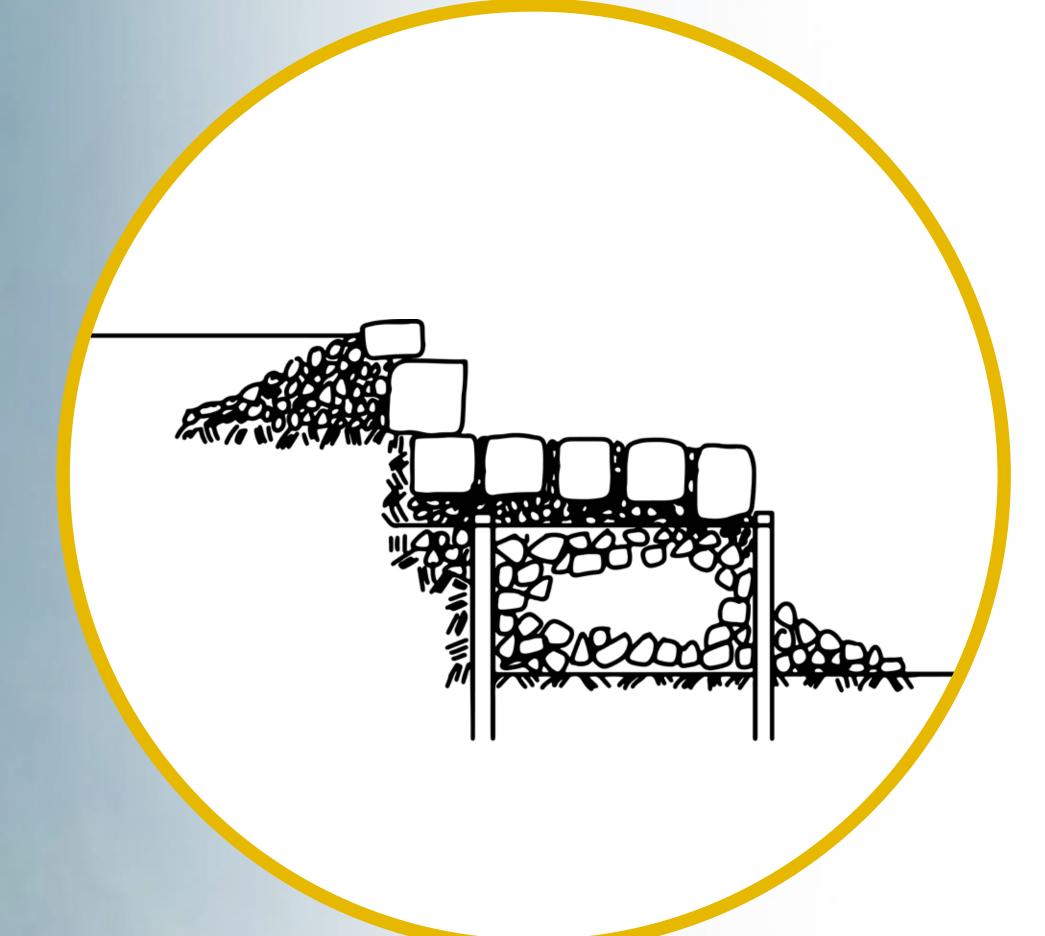




2. EXAMPLE SHORE PROTECTION SYSTEMS

Original Construction

Timber Crib and Stepped Stone



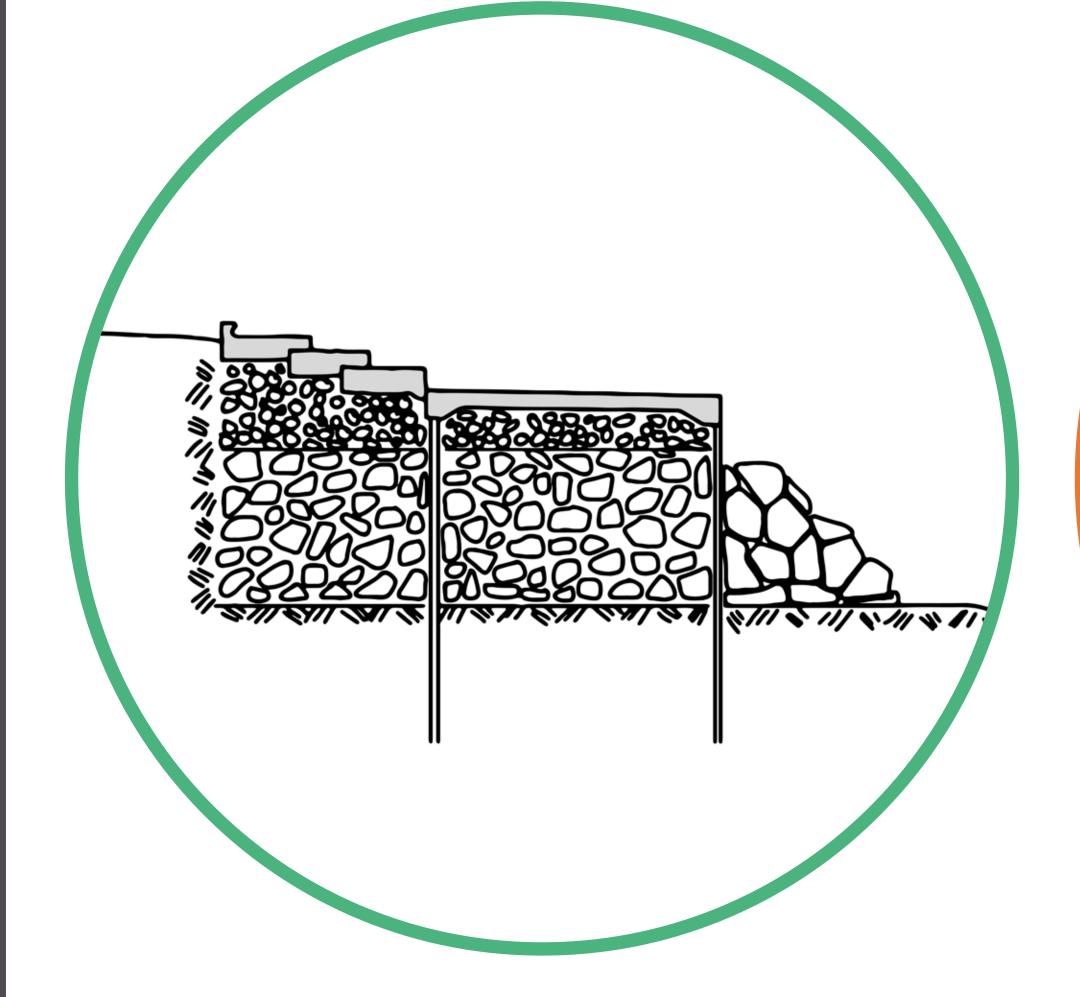


50th Street

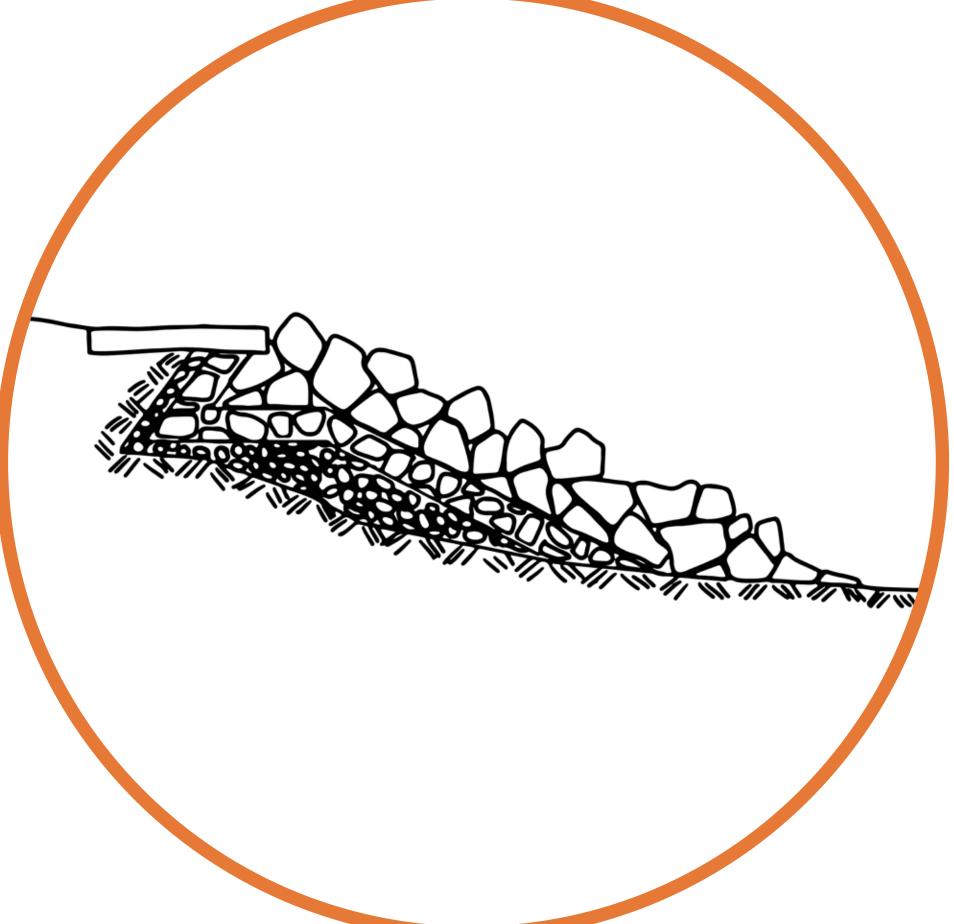
- Used for original (pre-1940s) construction of most of Chicago's revetments.
- Limestone is a durable material. - Promenade level typically about 12 to 15 feet wide.
- Timber piling is subject to rot and deterioration, especially when lake levels drop.
- Surface is walkable unless foundation is undermined, and/or stones are displaced.
- Used for 45th Street to 51st Street area repaired, augmented, and rehabilitated several times.

Proposed Construction

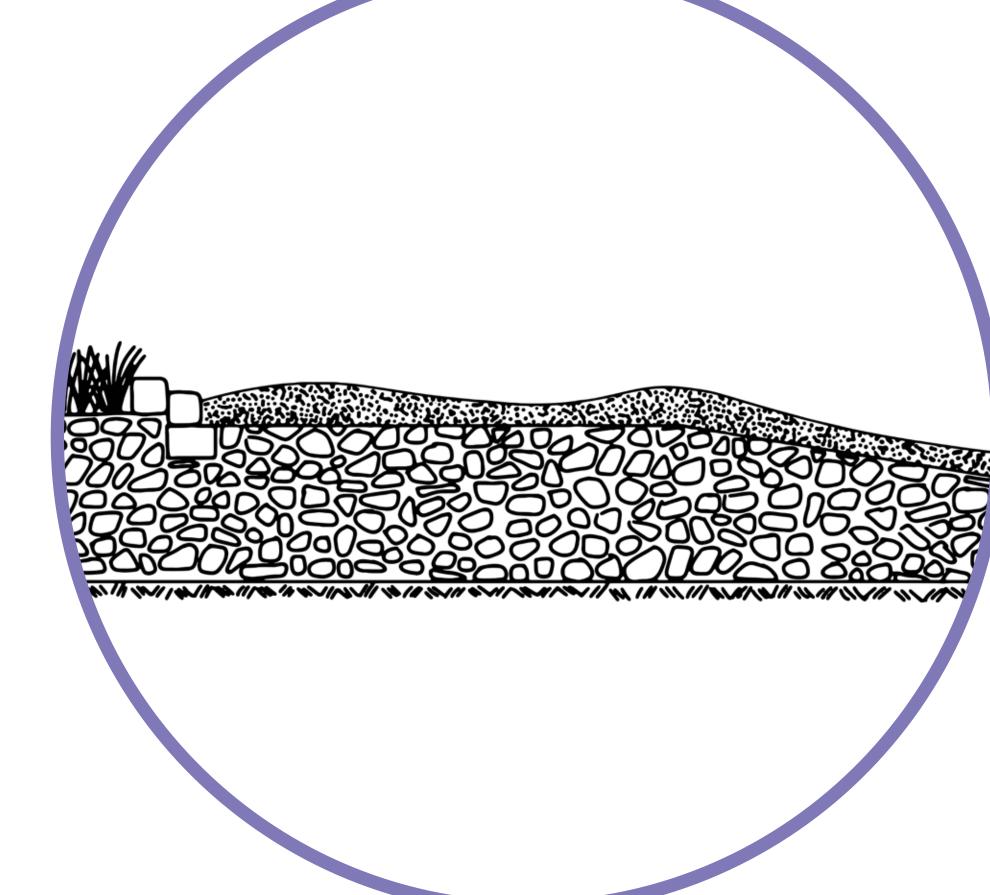
Sheet Pile and Stepped Concrete







Dynamic Revetment





53rd Street

- Used for more recent construction in 1950s and 1960s, as well as for most of the recent lakefront rehabilitation.
- Concrete and steel are durable materials.
- Promenade level typically about 25 feet wide.
- Surface is walkable and ADA-compliant. - Not technically feasible where bedrock is close to the surface.



Lincoln Park (Irving Park Road - Montrose Avenue)

Keweenaw Peninsula, Lake Superior

- Not as commonly used along Chicago lakefront.
- Armor stone size depends on wave exposure.
- Structure width depends on lakebed depth.
- Surface is not walkable.
- Upper levels away from breaking waves can incorporate salvaged stone.
- Feasible regardless of bedrock conditions.

- Not a static structure will be re-shaped by waves and currents.
- Much flatter and wider than typical armor stone revetment.
- Surface is uneven, but walkable.
- Feasible only in sheltered and relatively shallow locations.

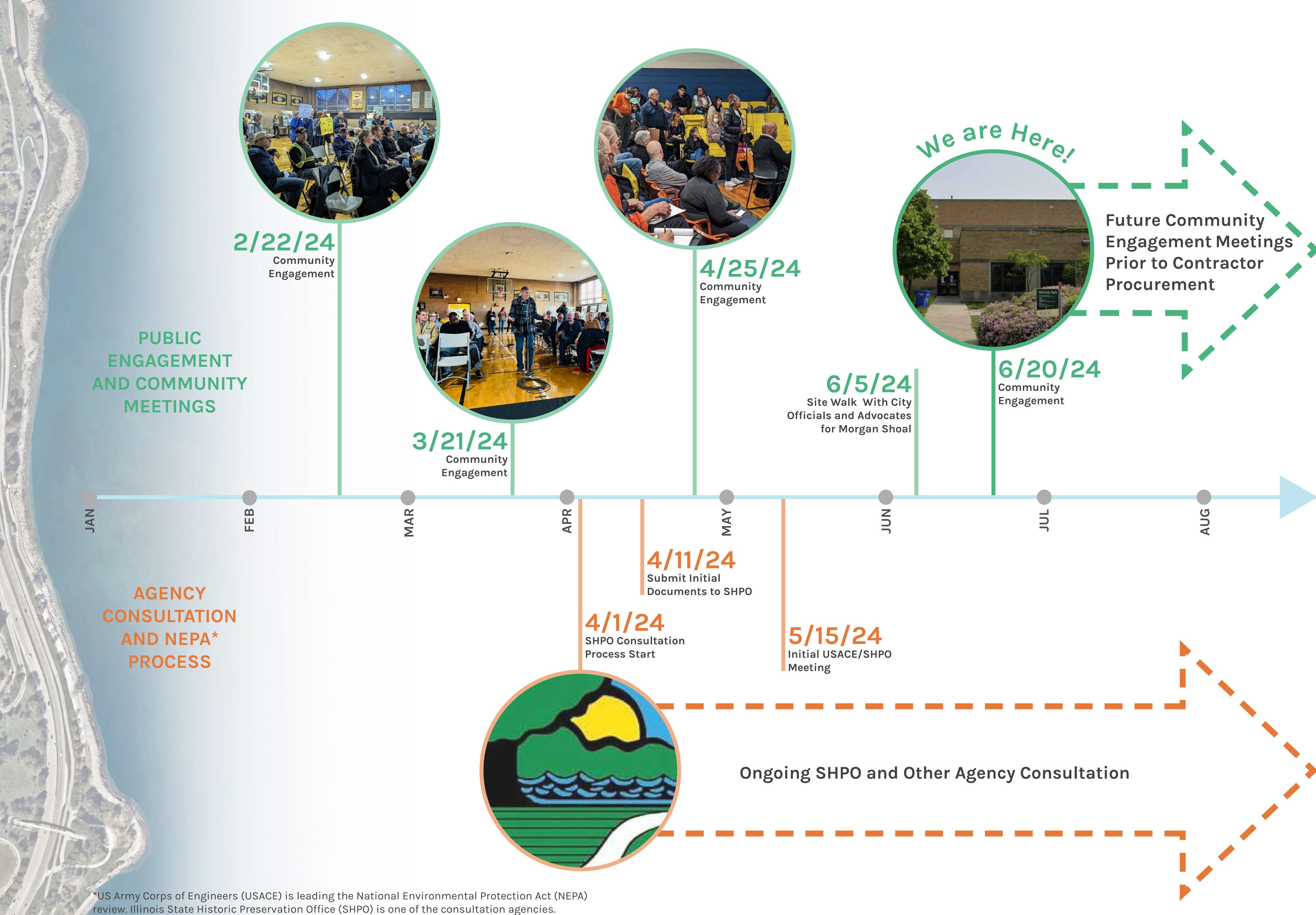






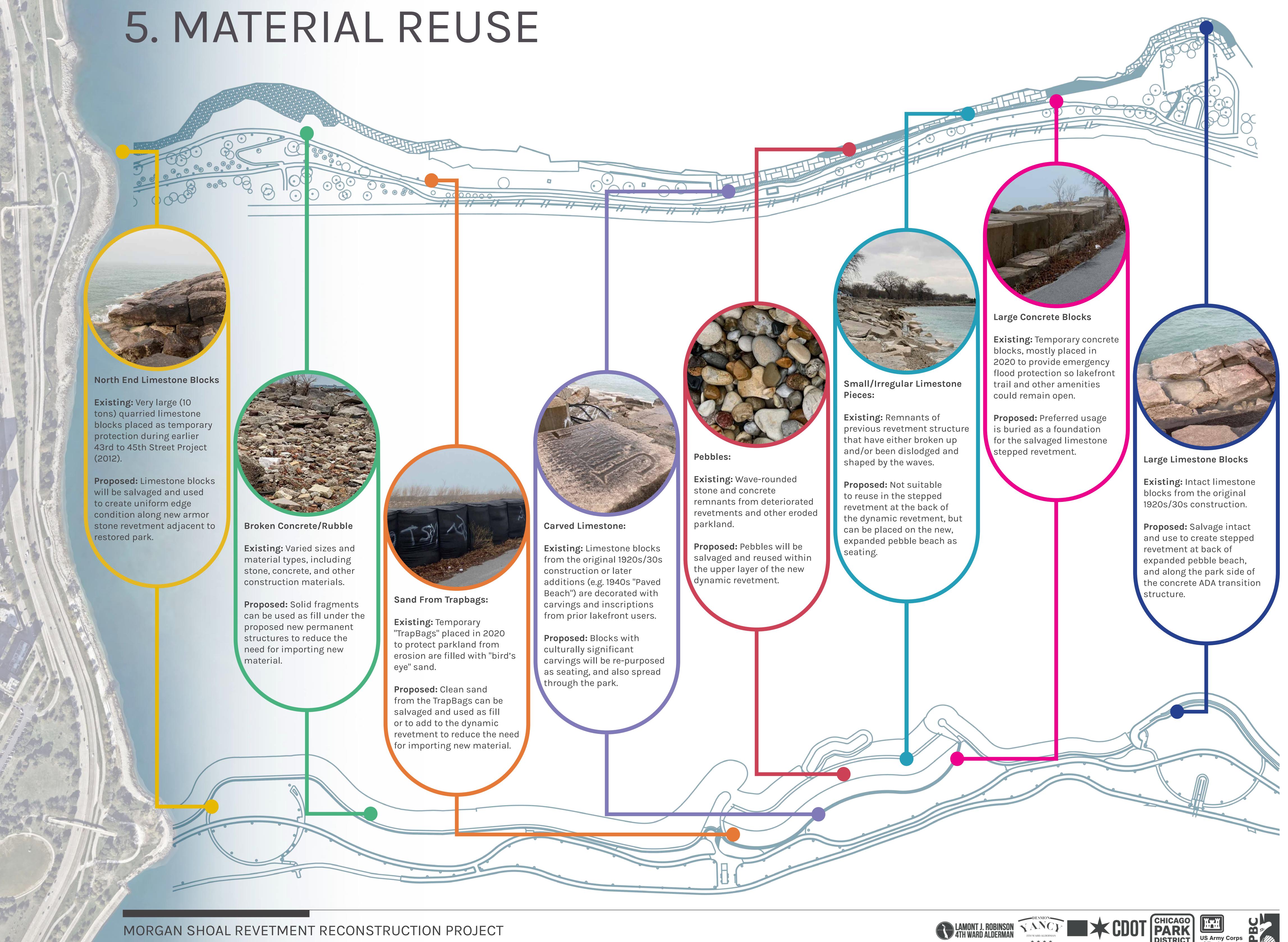


3. 2024 PUBLIC ENGAGEMENT AND CONSULTATION



4. DESIGN CHANGES INSPIRED BY PUBLIC COMMENTS













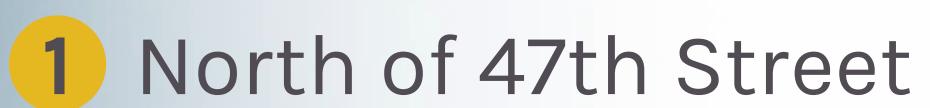
6. PARK LANDSCAPING MATERIALS

Existing



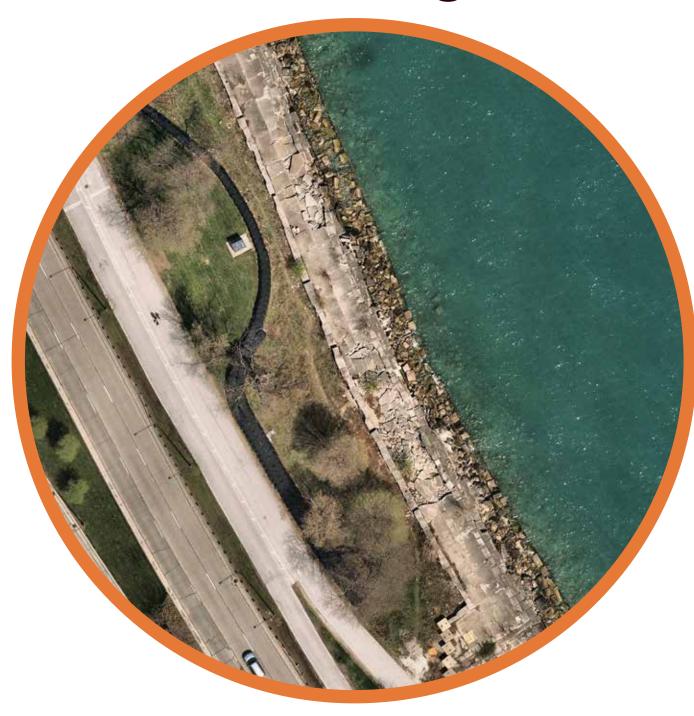
Proposed





Savanna: Preserve and augment existing trees with additional native trees such as Bur Oak, and Chinkapin Oak. Add understory layer of shrubs such as Chokeberry, Witch Hazel, Sumac and Arrowwood. Wide range of perennials and grasses at ground plane. Layered vegetation is a particularly beneficial habitat for migratory birds.

Existing



Proposed

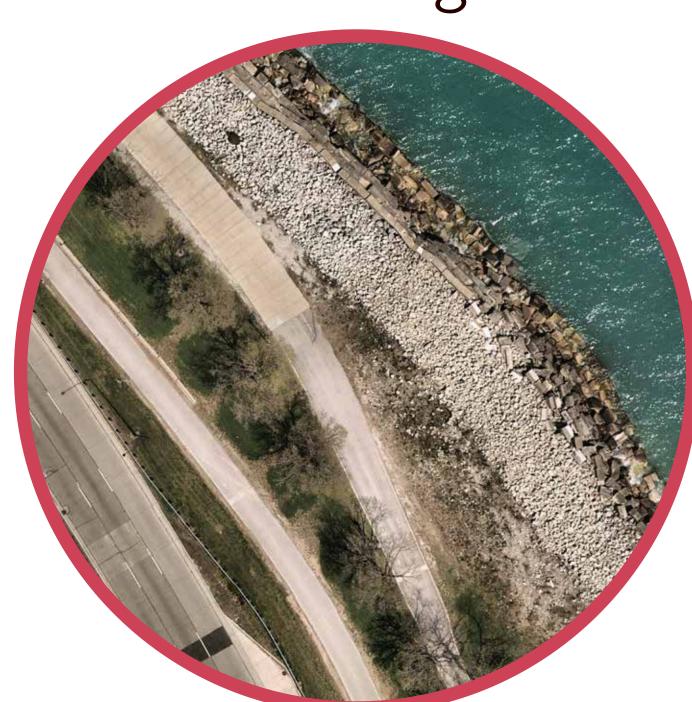




48th Street

"Arboretum Landscape": Preserve mature trees, augment with new shade trees, and restore parkland with turf grass. Use salt-tolerant varieties adjacent to DuSable Lake Shore Drive.

Existing



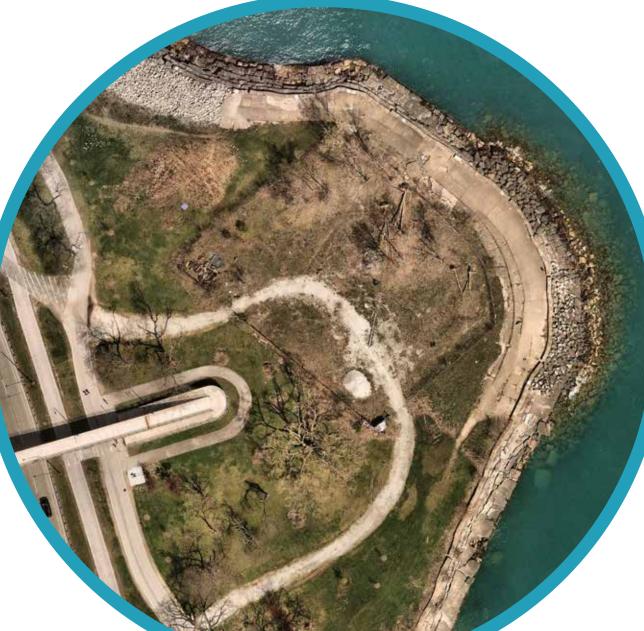




5 50th Street

Due to narrow land posing planting challenges, preservation of existing mature trees that are currently between bike and pedestrian path will occur. Augment this area with new shade trees. Use salt-tolerant varieties adjacent to DuSable Lake Shore Drive.

Existing





Proposed



51st Street

Preserve existing mature trees in the vicinity of the 51st Street Bridge landing. Restore the disturbed area with a mix of lawn, trees and native plantings. Native oaks planted in this area will support over 534 different species of native butterflies and pollinators. Blend with adjacent area to the south to remain. Plant low areas with wet-tolerant species. Turf lawn will allow for different forms of recreation by the water.

Existing



Proposed



South of 47th Street

Prairie: Area is currently heavily eroded and covered in rubble / concrete debris. Predominant plantings will be perennials and grasses such as Milkweed, Wild Indigo, Sunflower, Horse Mint, Compass Plant, Aster, Prairie Dropseed, and Little Bluestem. Occasional shrubs and trees such as Dogwood and Bur Oak.

Existing







49th Street

Dune: Almost zero existing vegetation at this location. Create new dune habitat to replicate original Chicago lakefront ecosystem with predominantly American Beach Grass with other perennials and grasses such as Prairie Onion, Canada Wild Rye, Porcupine Grass, Wild Strawberry, Blazing Star, and June Grass.







