Goals of the Design Development Phase

1. Incorporate feedback received from the Client Group, Community, Regulatory Agencies, Funding Partners and Stakeholders.

2. Continue developing the design in collaboration with our team of subconsultants by refining grading, utilities distribution, materiality and layout, soils design, planting palette and furnishings.

3. Advance the design of the shoreline through hydrological modeling to ensure resiliency, flood protection, ecological uplift, and enhanced experience.

4. Advance the design of the Play Garden by coordinating with play equipment designers and manufacturers.

5. Prepare documents for cost estimating and Agency review.
100% Design Development Scheme
Ralph C. Wilson Jr. Centennial Park - Projects

PARK CORE PROJECT

PEDESTRIAN BRIDGE INFRASTRUCTURE PROJECT

SHORELINE INFRASTRUCTURE PROJECT

Colonel Francis G. Ward Pumping Station

Front Park

Hudson St.

Waterfront Neighborhood

Virginia Carolina Interchange

Waterfront / Emerson Young Park

Lakeview Neighborhood

Porter Avenue

Virginia Carolina Interchange

Hudson St.

Lakeview Neighborhood

Waterfront/Park

4th St.

Colonel Francis G. Ward Pumping Station

Bird Island Pier

Black Rock Canal

Lake Erie
100% Design Development Scheme
Design Adjustments Over Clear Water Well

50% DD

Updated
Hydrological Modeling Methods

Environmental Fluid Dynamics Code (EFDC)

Simulating WAves till SHore (SWASH)

Cross-shore (C-SHORE)
Design Adjustment based on C-SHORE Modeling Results (10+72)
C-SHORE Modeling: Significant Wave Height at High Lake Level Design
**Armoring Profiles**

*NOTE:* See Marine Engineering Drawings in the 100% DD Drawings Set for All Armoring Profiles
Armoring Detail - Inlet Island
Custom-designed Play Equipment
Custom-designed Play Equipment

NOTES:

1. Product Name: *Least Bittern* Play Structure
2. Manufacturer: MONSTRUM
   Engager 3
   2606 Brandby
   Denmark
   Phone: +45 3322 1077
   www.monstrum.dk

Quantity: 1
Fall Height: 10'-0"
Age Range: 5-12 Years
100% Design Development Submission