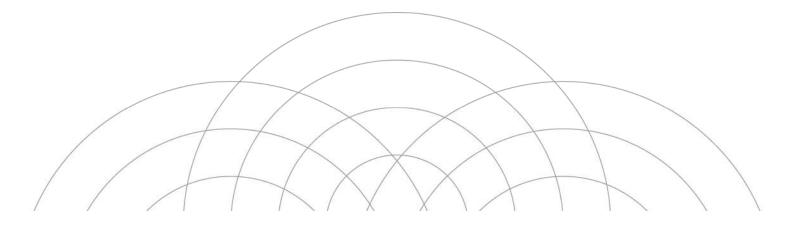


COCHECO WATERFRONT

Preliminary Site Concepts

January 19, 2016





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Financial Analysis

PROJECT TEAM

Project Process

Site Issues

Projected Sea Rise/Shoreline Stabilization

Site Grading/Bluff Excavation

Contaminated Soil and Tannery Waste Remediation

Waterfront Park and Program

Boathouse/Dock Design

Street Layout/Site Connections

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Task 1: Pre-Design

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Fast-Tracked Engineering

Task 4: Soil Remediation Plans and Permitting

Task 5: Dock Design and Permitting

Future Tasks (Phase 2)

Soil Remediation Oversight

Dock Construction Oversight

Detailed Site Planning/Engineering

Developer RFP Assistance

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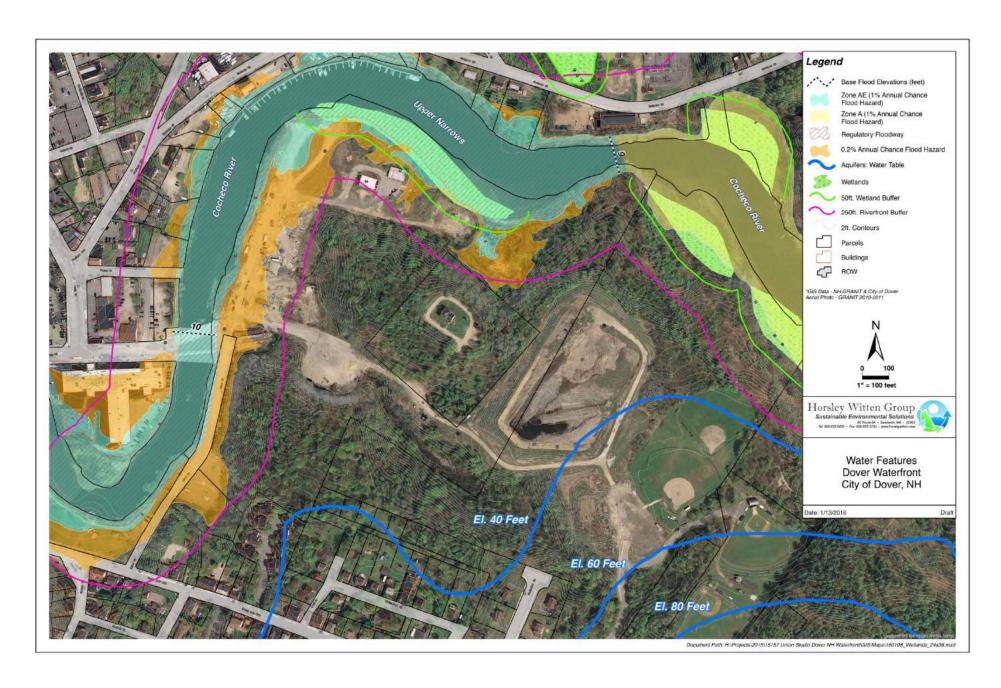
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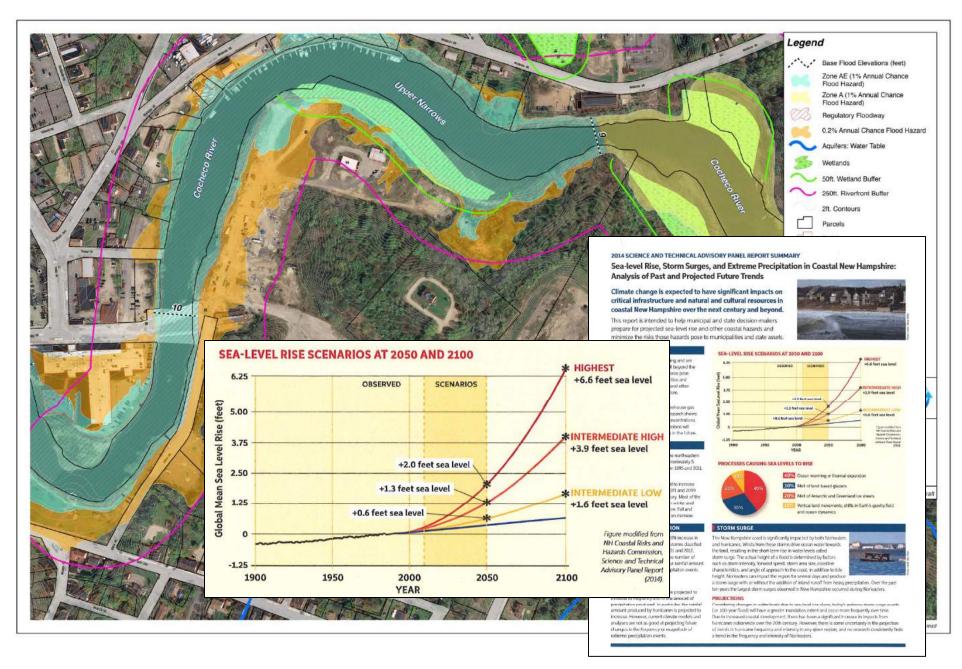
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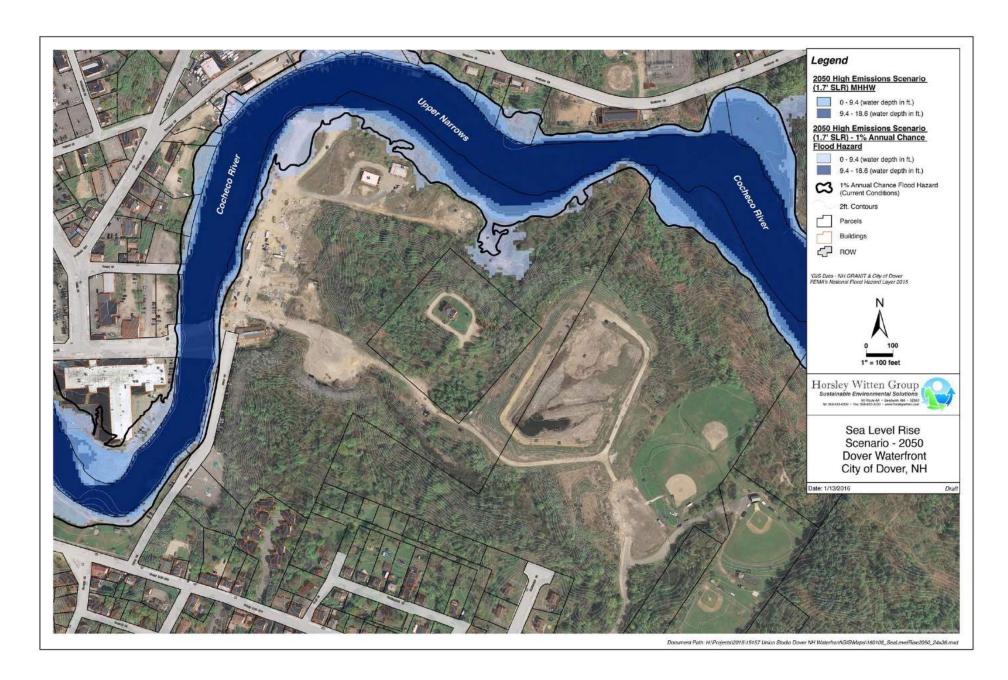
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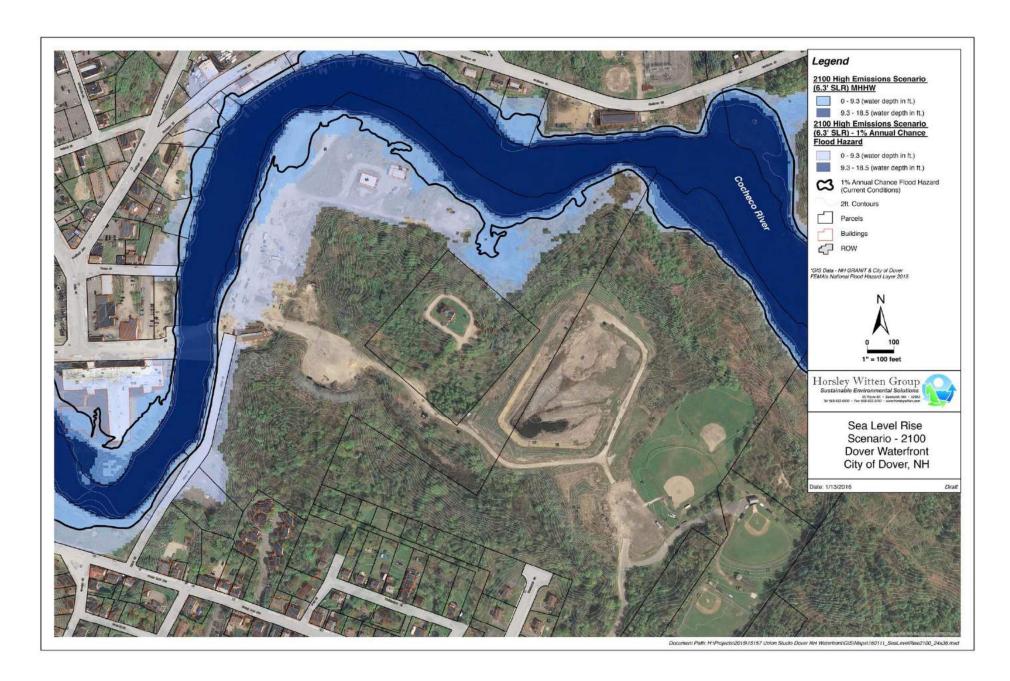
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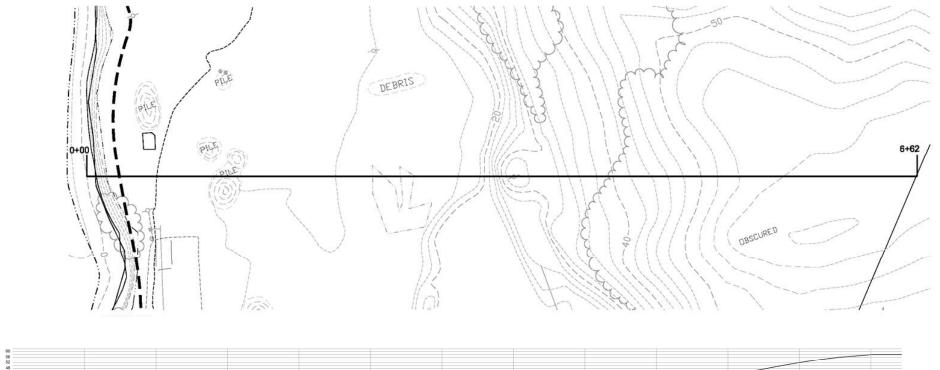


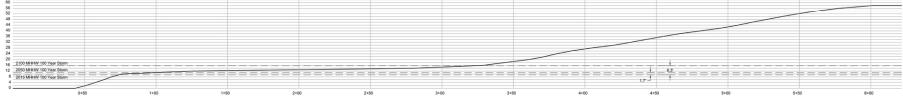




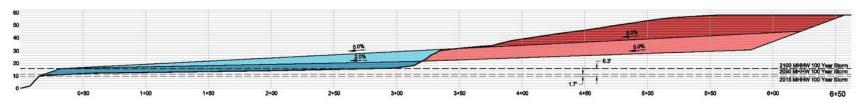


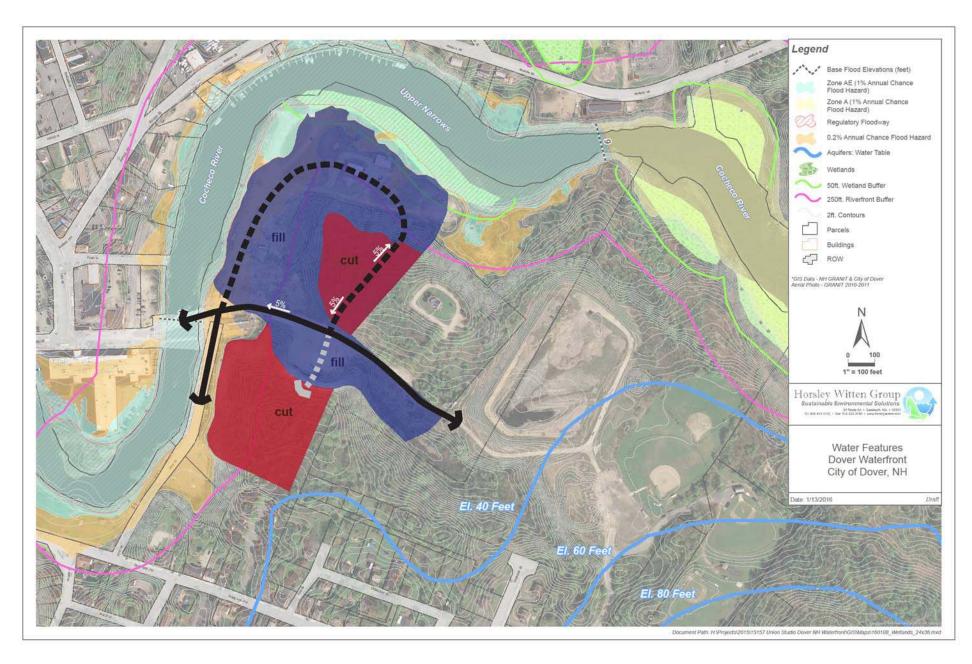
SITE GRADING





Cut material from high areas to fill low areas to address sea rise and create buildable land





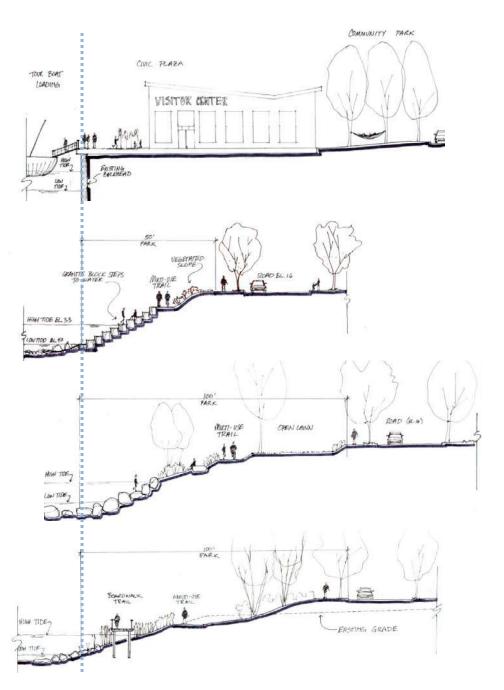












SITE GRADING

COCHECO WATERFRONT

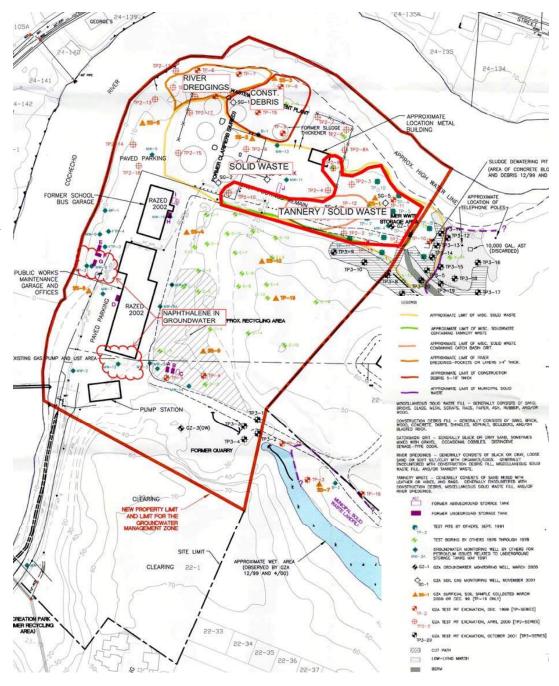
Groundwater Management Zone – limited petroleum and arsenic/manganese impacts

Soils at north end impacted by tannery wastes, solid waste, construction debris, river dredgings, elevated methane gas & VOCs – buildings may need vapor intrusion barriers

NHDES requiring an updated Remedial Action Plan (RAP):

- Possible additional soil sampling
- Updated soil gas survey
- Plan for waste removal
- Capping of waste to remain
- Activity and Use Restriction
- Restrict excavation in impacted areas
- Soil and groundwater management plan

RAP can be developed once Preferred Concept is approved and site grades have been established (Phase 2)

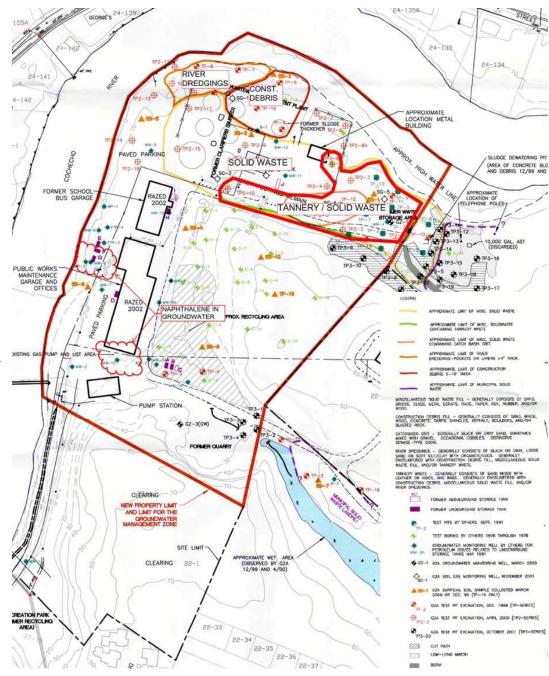


SOIL REMEDIATION

Next Steps

Meet with NHDES to discuss integrated permitting approach to the site (wetlands, petroleum, solid waste/brownfields, alteration of terrain, etc.)

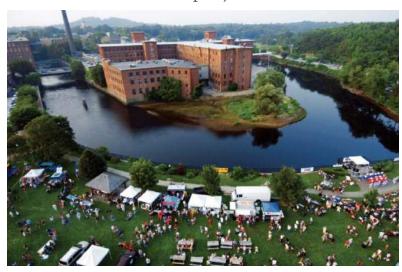
- Petroleum-impacted areas may be eligible for funding assistance from NHDES
- Removal of tannery wastes will be proposed to NHDES as an interim step (limited source removal action) so that the tannery wastes can be removed from the site and disposed of in the adjacent dredge cell and the dredge cell can then be closed.
- Assuming tannery waste removal is approved in advance of full RAP submission, bid documents for waste removal can then be prepared
- State may require more waste be removed to limit source impacts to groundwater including solid waste

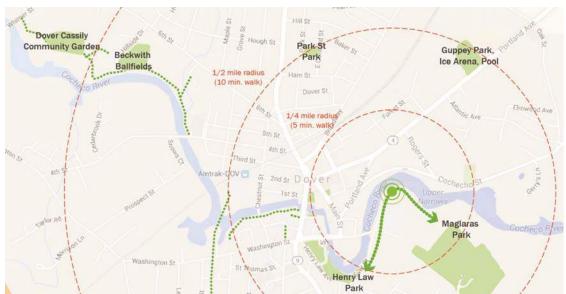


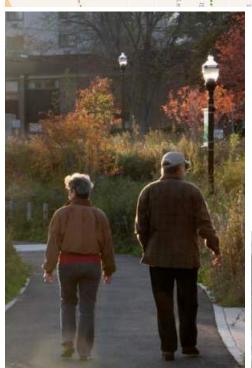
SOIL REMEDIATION

Preliminary Waterfront Park Goals

- 1. Community Park that is both connection and destination
- Home to ADA accessible public non-motorized boat dock (\$150,000 LWCF Grant)
- 3. Designed for year-round activity and vibrancy
- 4. Accommodate overflow/expansion of City festivals and events
- 5. Built to withstand flooding, both current and projected.











WATERFRONT PARK

COCHECO WATERFRONT







Waterfront Park Programming

Water-Based Recreation

(paddle launch, boathouse, dock)

12,000 sf - 34,000 sf



(multi-use plaza, visitor's center)

25,000 sf - 40,000 sf



(trails, parklands, play areas)

37,000 sf - 69,000 sf

Total 74,000sf – 143,000 sf (1.7 acres – 3.3 acres)



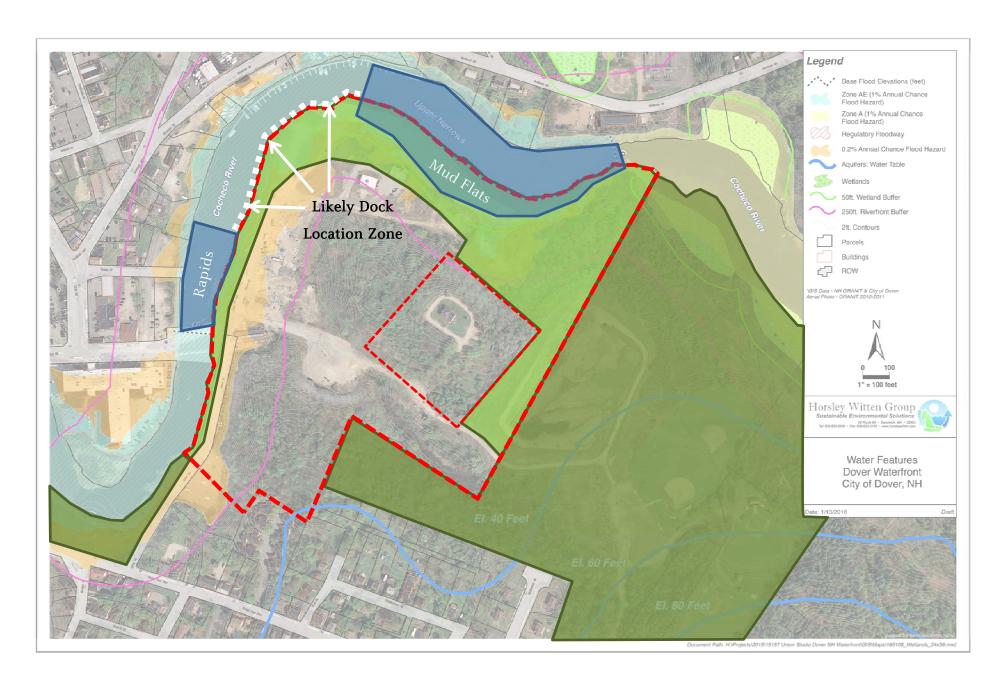


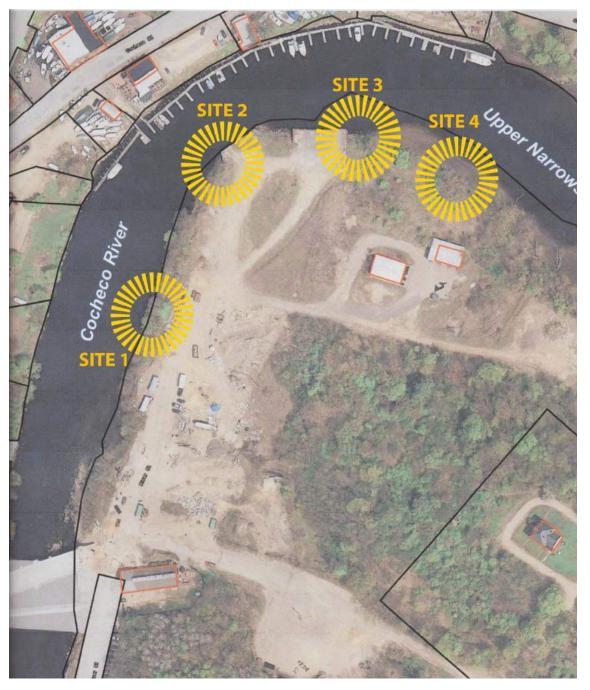












Site 1:

Pros: Minimizes conflict with power boats, visible from the bridge

Cons: Potential boathouse could disrupt more 'urban' waterfront edge

Site 2:

Pros: Could attach to existing bulkhead to reduce costs

Cons: Potential conflicts with power boats

Site 3:

Pros: Widest part of channel before mudflats will reduce conflict with power boats

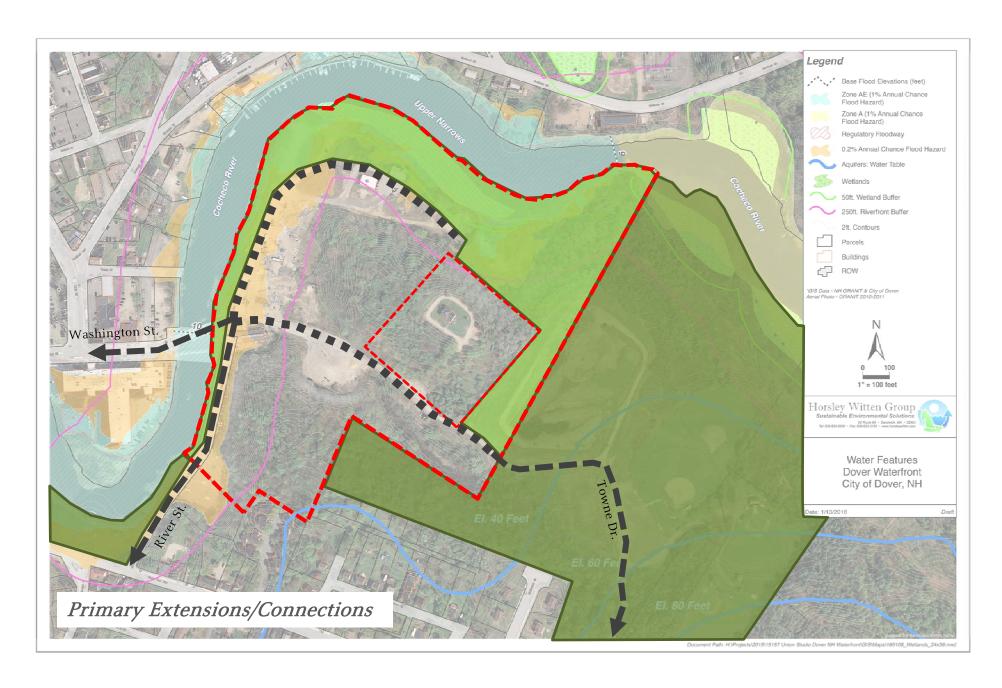
Cons: Conflicts with potential tour boat tie-up at existing sheet pile

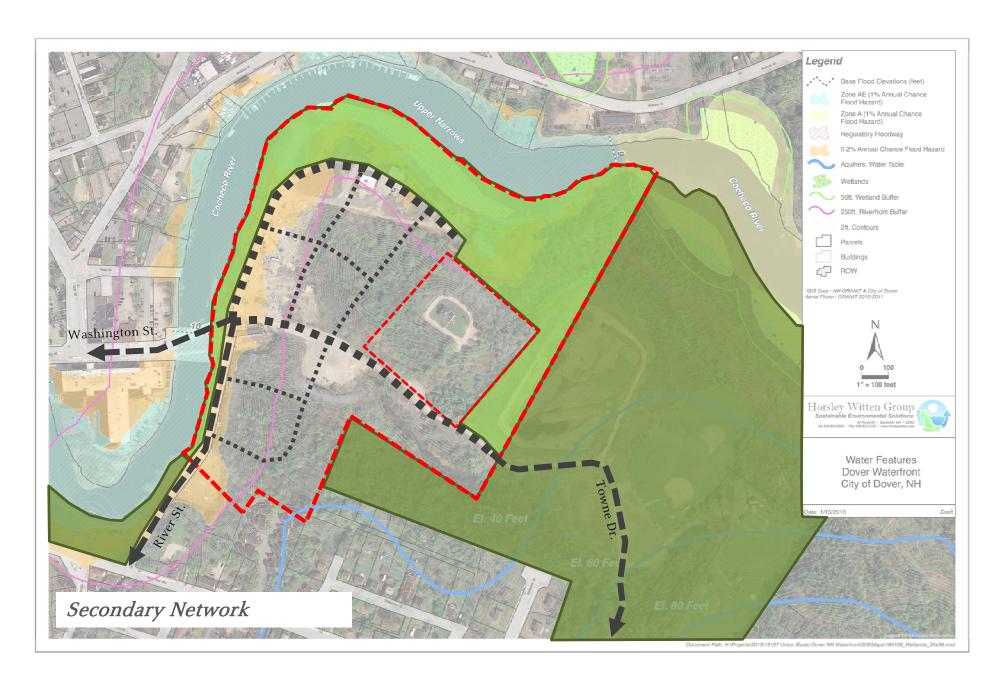
Site 4:

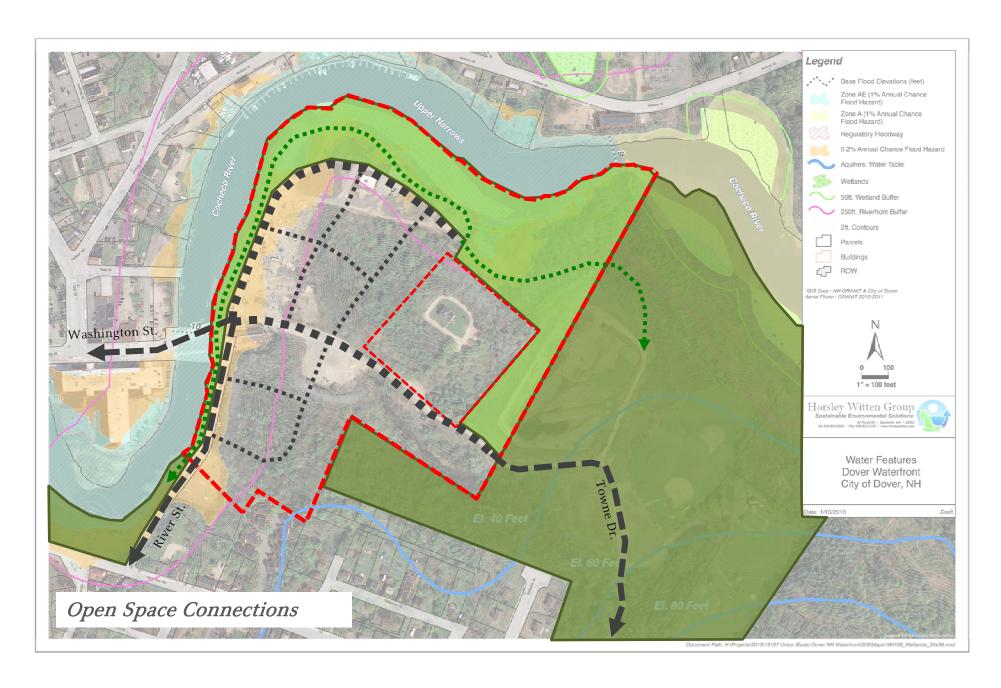
Pros: Least disruptive to public waterfront

Cons: Building the dock over the mudflats may require a larger structure and helical piles which will increase costs









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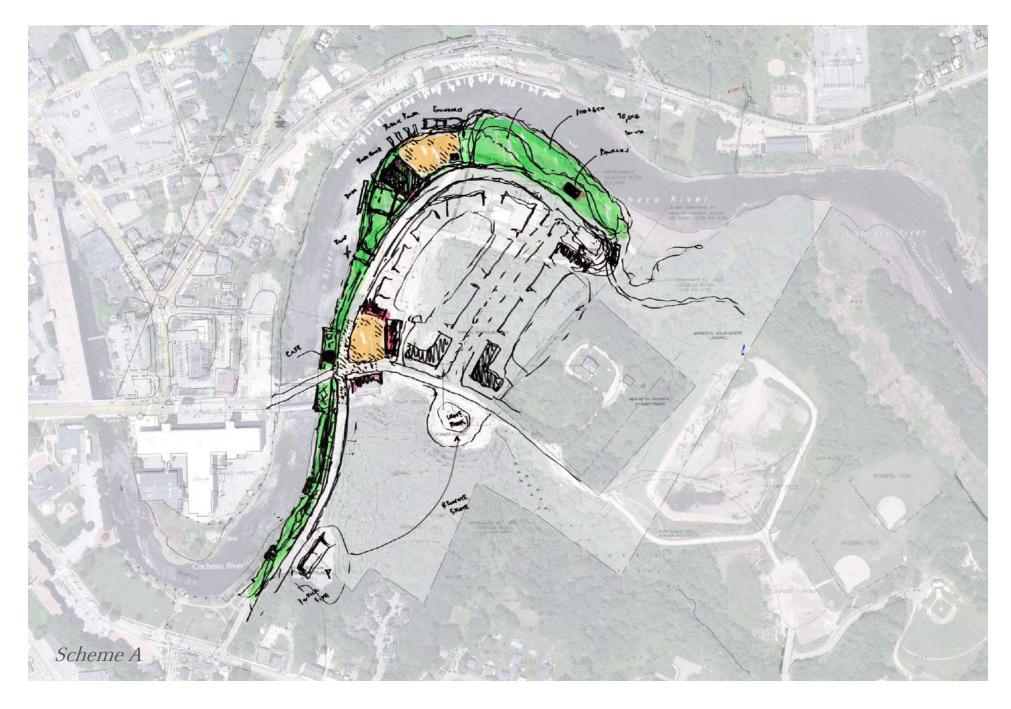
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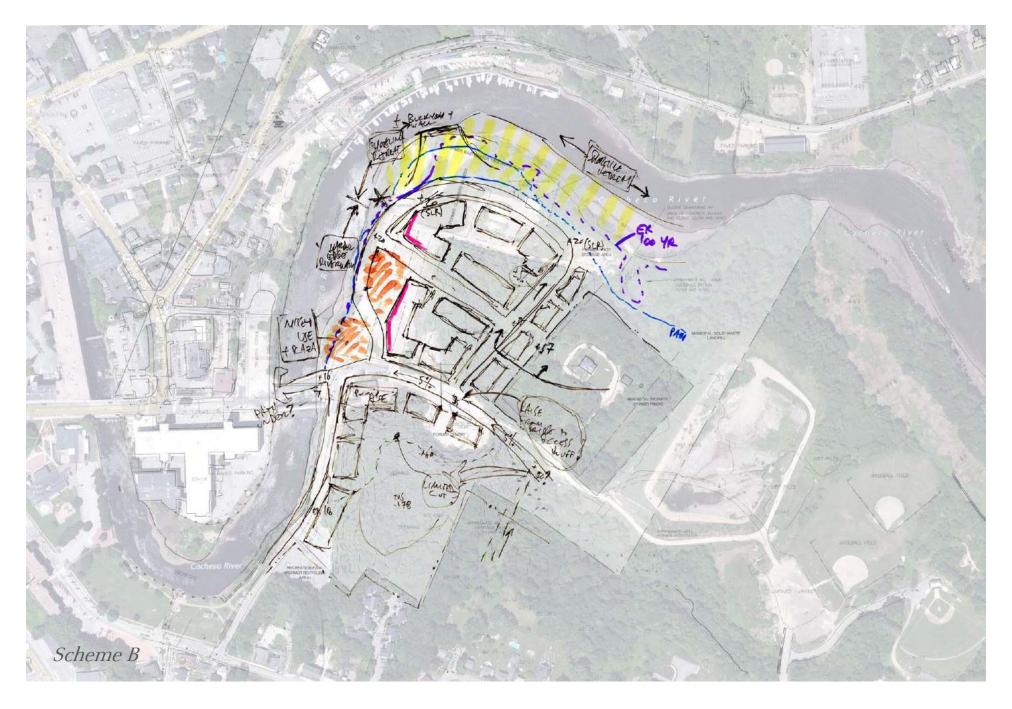
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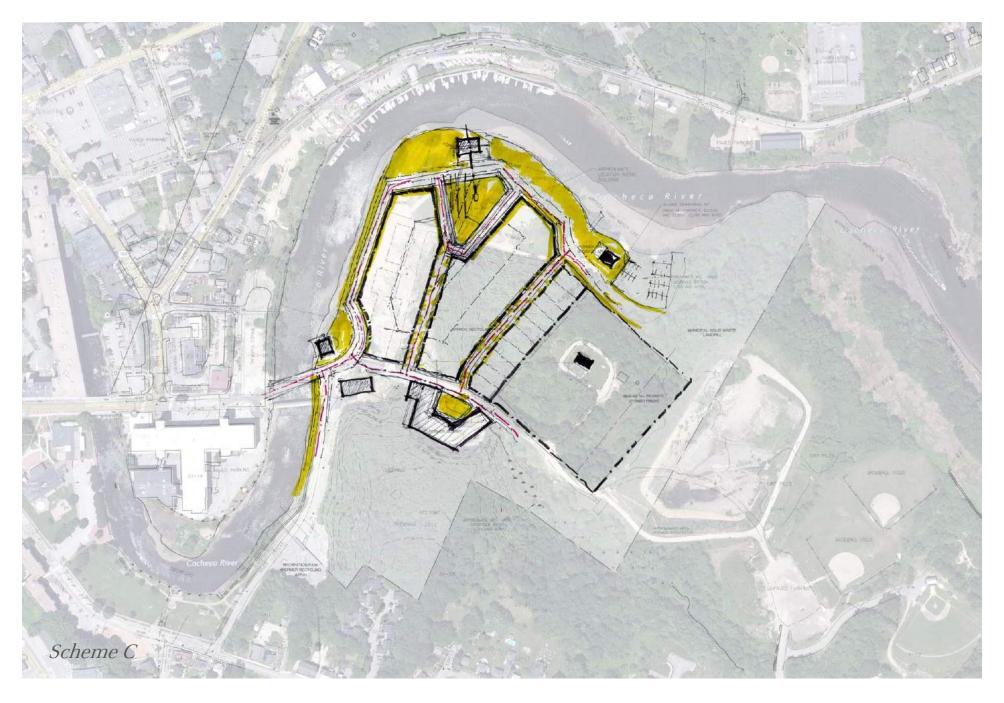
Preliminary Site Concepts



PRELIMINARY SITE CONCEPTS



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PRELIMINARY SITE CONCEPTS

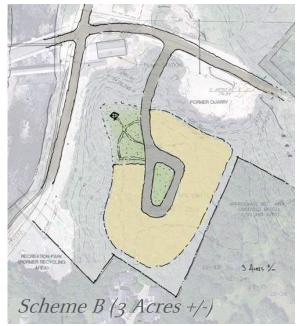






Options for Intersection of Washington and River Streets











Options for Bluff
Development/Excavation

PRELIMINARY SITE CONCEPTS

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Fast-Tracked Engineering

Task 4: Soil Remediation Plans and Permitting April/May/June

Task 5: Dock Design and Permitting April/May/June