MEETING AGENDA



I I Middle Street Saco, Maine 04072 Tel. 207-286-929 I Fax. 207-286-9650 mail@richardsonassociates.com

Richardson & Associates Landscape Architects

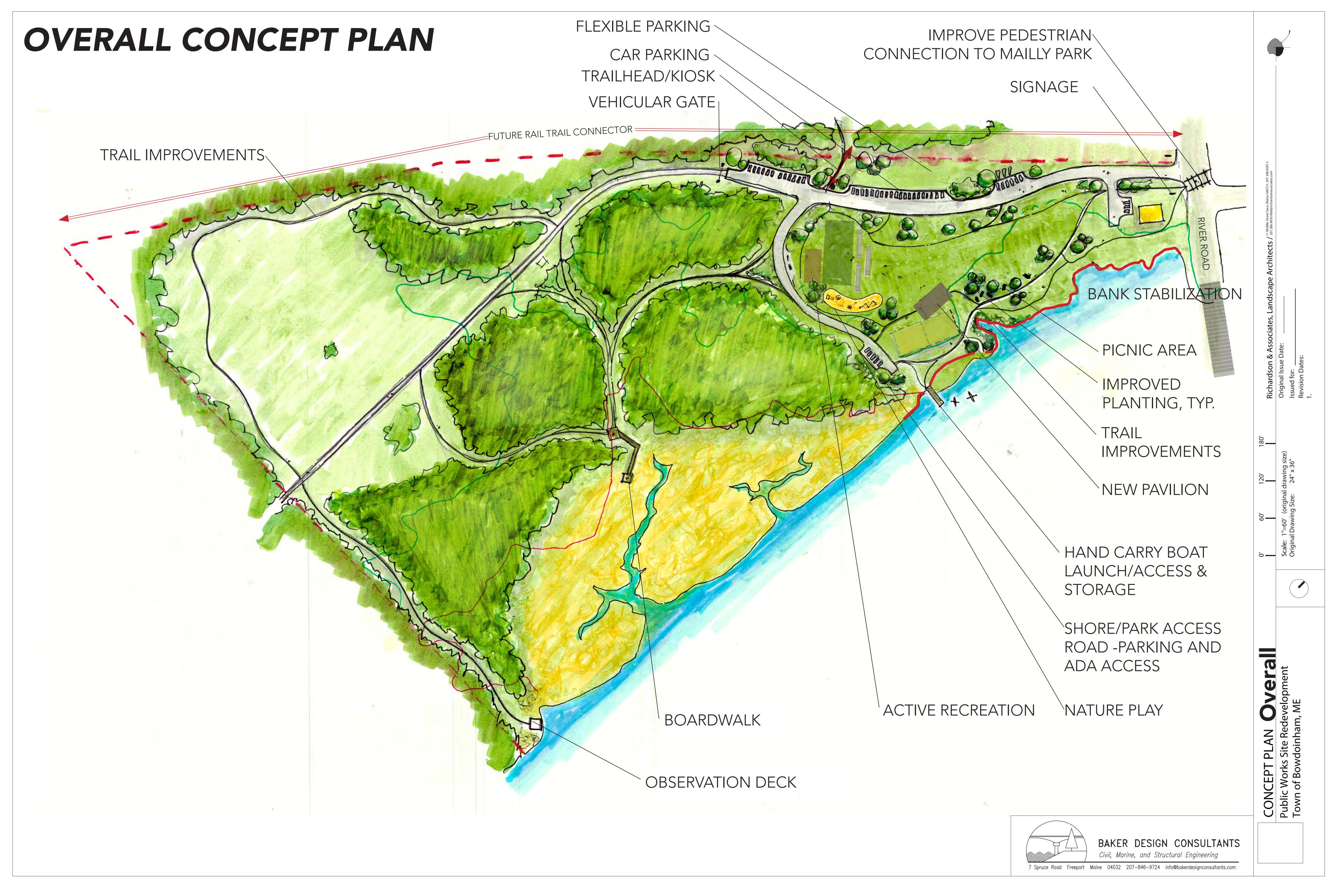
Project: Bowdoinham Waterfront

Date: February 12, 2019 6:00pm

Meeting: CPC Meeting

- I. Introduction (R&A & BDC)
- 2. Goals & Objectives (R&A)
- 3. Final Master Site Plan (R&A)
 - a. Overall Concept, Phasing & Associated Costs
 - b. Final Aerial Plan
 - c. Perspective Views
 - d. Review of Deliverables
 - e. Question & Answer
- 4. Preliminary Fee Projection (R&A & BDC)
 - a. Option I-100% Construction Documents, Bidding, Construction Administration
 - b. Option 2 Permit Documents
 - c. Option 3 (Permit Documents) + Phase I Construction Documents, Bid, and Construction Administration
- 5. Grant Summary & Next Steps (BDC)
 - a. Schedule & Tasks









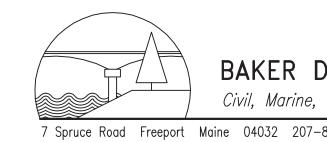
Phase I COST SUMMARY



- General Site Restoration
- Minimal Shore Stabilization
- Connections to Rail Trail
- Limited Trails
- Hand Carry Boat Parking, Access & Racks
- ADA Access
- Picnic Area
- Car & Boat Trailer Parking
- Access Road
- Signage
- Crosswalk/Safety
- Landscape Planting

PHASE I INITIAL INVESTMENT

\$560,000 - \$700,000



P1

Phase II =FUTURE RAIL TRAIL CONNECTOR: TRAIL **IMPROVEMENTS** NEW PAVILION Phase II Recommendations Pavilion (New)

Trail Improvements

Continued Landscape Planting

P2 BAKER DESIGN CONSULTANTS

Phase II COST SUMMARY

Continued Landscape Planting



7 Spruce Pond Freeport Ma

\$365,000 - \$455,000

BAKER DESIGN CONSULTANTS

Civil, Marine, and Structural Engineering

7 Spruce Road Freeport Maine 04032 207-846-9724 info@bakerdesianconsultants.com

P2

Phase III 'JRE RAIL TRAIL CONNECTOR OUTDOOR SKATING & FIRE PIT NATURE PLAY & RECREATION ZONE BOARDWALK Phase III Recommendations •Ice Skating Fire Pit Active Recreation Area (Volleyball, Bocce, Horseshoe) Nature Play Area OBSERVATION DECK

Overlook Improvements

Continued Landscape Planting

(Boardwalk)

BAKER DESIGN CONSULTANTS

Civil, Marine, and Structural Engineering

P3

Phase III COST SUMMARY



•Ice Skating

Fire Pit

 Active Recreation Area (Volleyball, Bocce, Horseshoe)

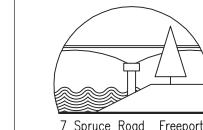
Nature Play Area

 Overlook Improvements (Boardwalk)

Continued Landscape Planting

PHASE III ADDITIONAL INVESTMENT

\$292,000 - \$480,000







Phase IV =FUTURE RAIL TRAIL CONNECTOR: BANK STABILIZATION Phase IV Recommendations Shoreline Stabilization

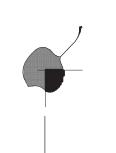


P4

Phase IV COST SUMMARY







Json & Associates, Landscape Architects / 207.286.9650 Mail@richardsonassociates.co

ale: 1"=60' (original drawing size) ginal Drawing Size: 24" x 36"

Scale: 1": Original D



BOWDOINHAM WATERFRONT

Bowdoinham ME

Preliminary Construction Cost Estimate Richardson & Associates, Landscape Architects

February 12, 2018

Note: This estimate is for the improvement recommendations identified on the Master Plan for the Bowdoinham Waterfront Project. Because of the planning nature of this document, the cost estimate inherently makes assumptions about the specific nature of existing conditions, and the type, quantity, and quality of materials. A 15% contingency has been added for this purpose. It does not include professional fees for design and engineering, permitting costs, or in-house, or in-kind services or materials. This estimate is only intended to identify the general magnitude of costs associated with the elements of the plan. All costs should be verified as specific plans are developed for each recommended improvement.

AREA for SCOPE OF WORK/ ITEMS

AREA for SCOPE OF WORK/ ITEMS	High End	Low End
Phase I	•	
Site Work and Grading	\$218,500.00	\$174,800.00
Trails	\$64,000.00	\$51,200.00
Water Access	\$78,750.00	\$63,000.00
Driveway & Parking Lot	\$99,400.00	\$79,520.00
Crosswalk	\$11,000.00	\$8,800.00
Picnic Area	\$12,000.00	\$9,600.00
Wayfinding & Signage	\$5,000.00	\$4,000.00
Planting	\$133,250.00	\$106,600.00
SUBTOTAL - PHASE I	\$609,900.00	\$487,920.00
with 15% Contingency TOTAL - PHASE I	\$91,485.00 \$701,385.00	\$73,188.00 \$561,108.00
Phase II		
Trails	\$22,960.00	\$18,368.00
Parking Lot	\$31,200.00	\$24,960.00
New Pavilion	\$87,500.00	\$70,000.00
Wayfinding & Signage	\$5,000.00	\$4,000.00
Planting	\$26,000.00	\$20,800.00
SUBTOTAL - PHASE II	\$396,410.00	\$317,128.00
with 15% Contingency TOTAL - PHASE II	\$59,461.50 \$455,871.50	\$47,569.20 \$364,697.20
Phase III		
Recreation - Nature Play	\$150,000.00	\$40,000.00
Active Recreation	\$109,000.00	\$87,200.00
Observation Decks	\$145,000.00	\$116,000.00
Planting	\$13,000.00	\$10,400.00
SUBTOTAL - PHASE III	\$417,000.00	\$253,600.00
with 15% Contingency TOTAL - PHASE III	\$62,550.00 \$479,550.00	\$38,040.00 \$291,640.00
Phase IV		
Phase IV Shoreline Stabilization	\$562,500.00	\$450,000.00
Shoreline Stabilization SUBTOTAL - PHASE IV with 15% Contingency	\$562,500.00 \$562,500.00 \$84,375.00	\$450,000.00 \$450,000.00 \$67,500.00 \$517.500.00
Shoreline Stabilization SUBTOTAL - PHASE IV	\$562,500.00 \$562,500.00	\$450,000.00





KEY

- 1 Pedestrian Connection to Mailly Park Improved Access
- 2 Park Entry Signage
- **3** Passive Lawn Space Flexible Area
- **Flexible Parking**Gravel Roads and Parking Spaces
- 5 Path / Circulation
- 6 Picnic Area

- **7 Pavilion** 60'x 30' Post and Beam Pavilion
- 8 Active Recreation
 Volleyball, Bocce, Horseshoe Courts
- Nature Play
 Area for Playspace
- **10 Kayak Racks** Parking Space
- Hand Carry Boat Launch
 Access and Storage
- 12 Bank Stabilization

- **Rail Trail Access**Signage / Kiosk
- **Future Rail Trail Connector** *TBD*
- Mown Paths
 Improved Pedestrian Trails
- 16 Boardwalk with Observation Deck Accessible
- 00 Observation Deck











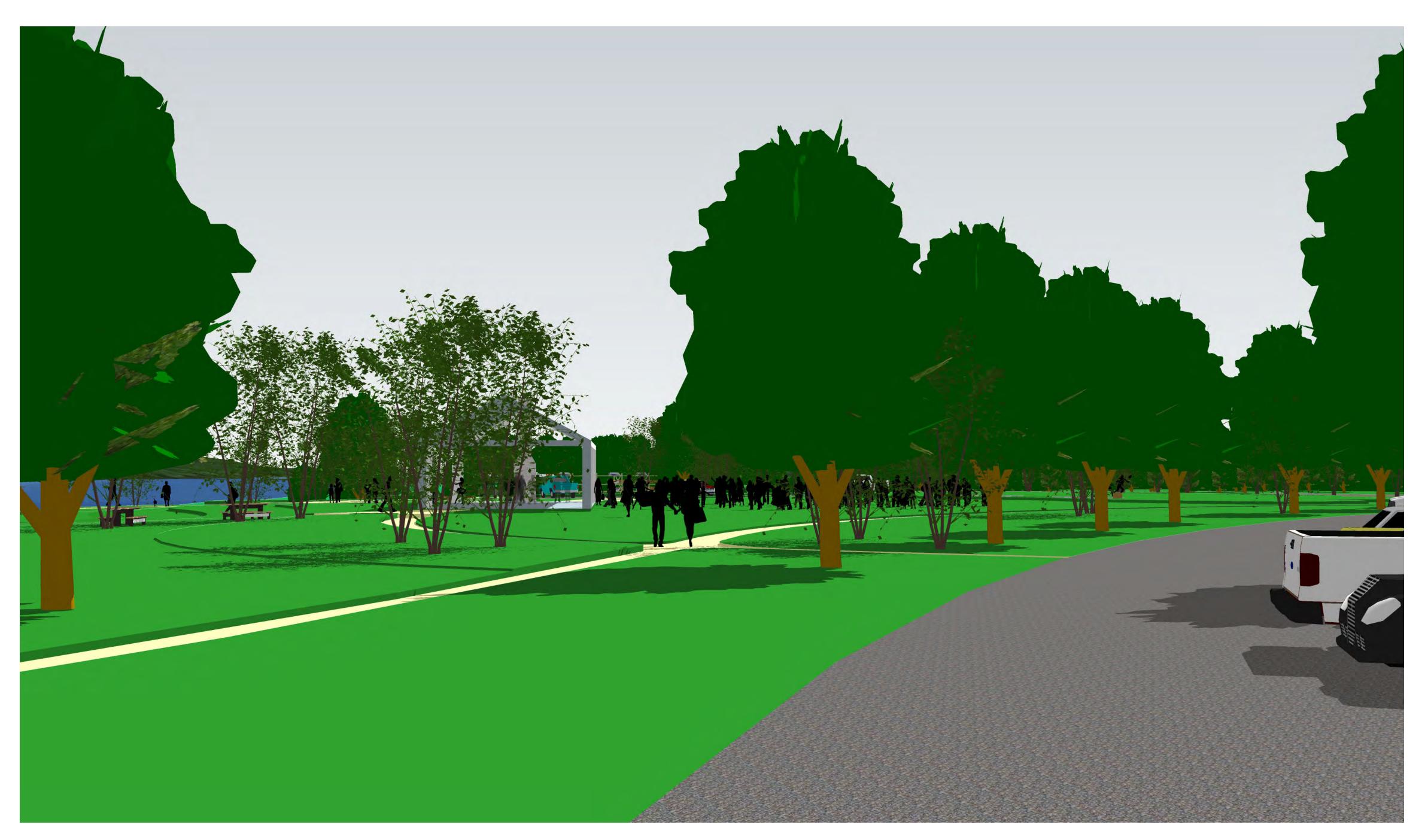














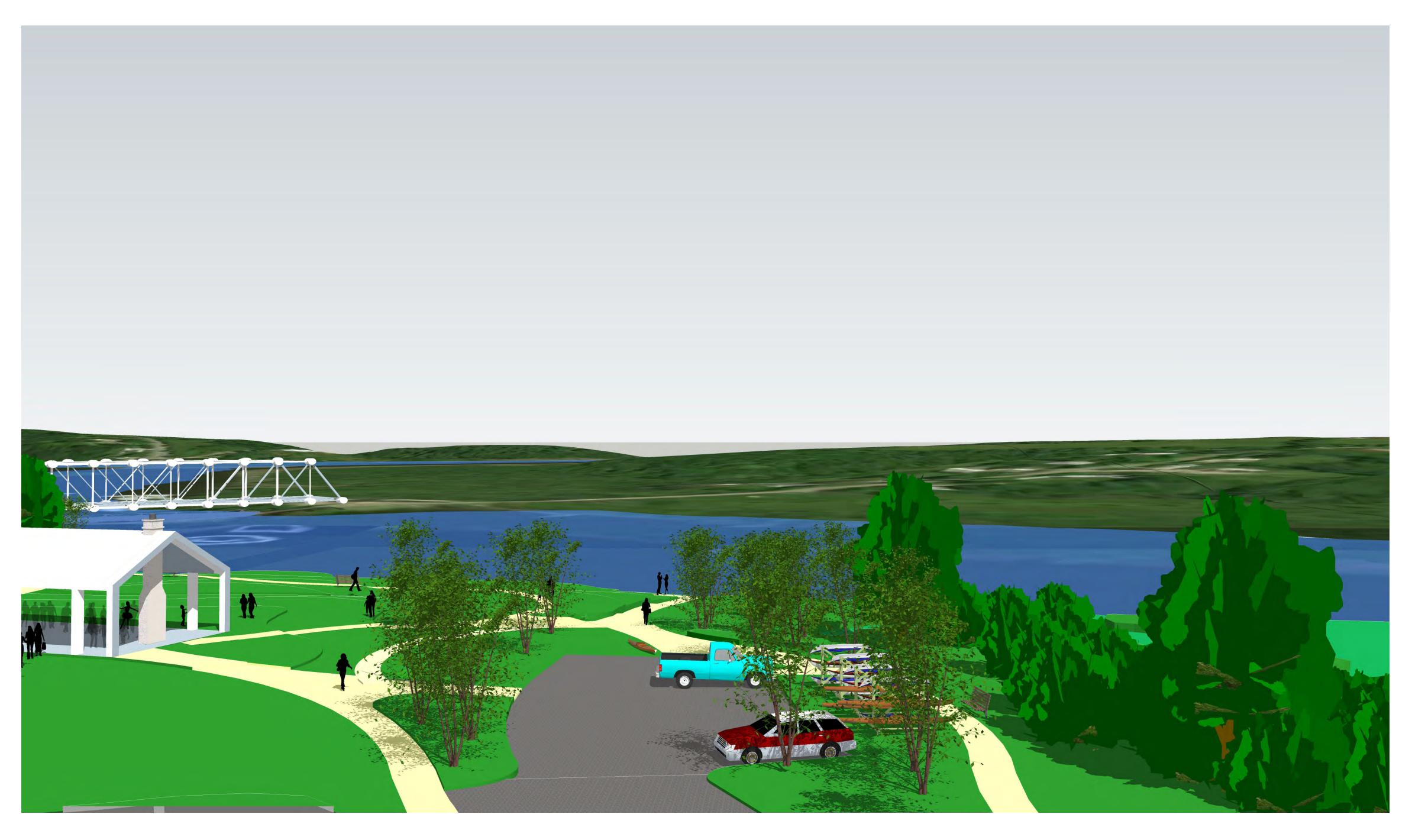






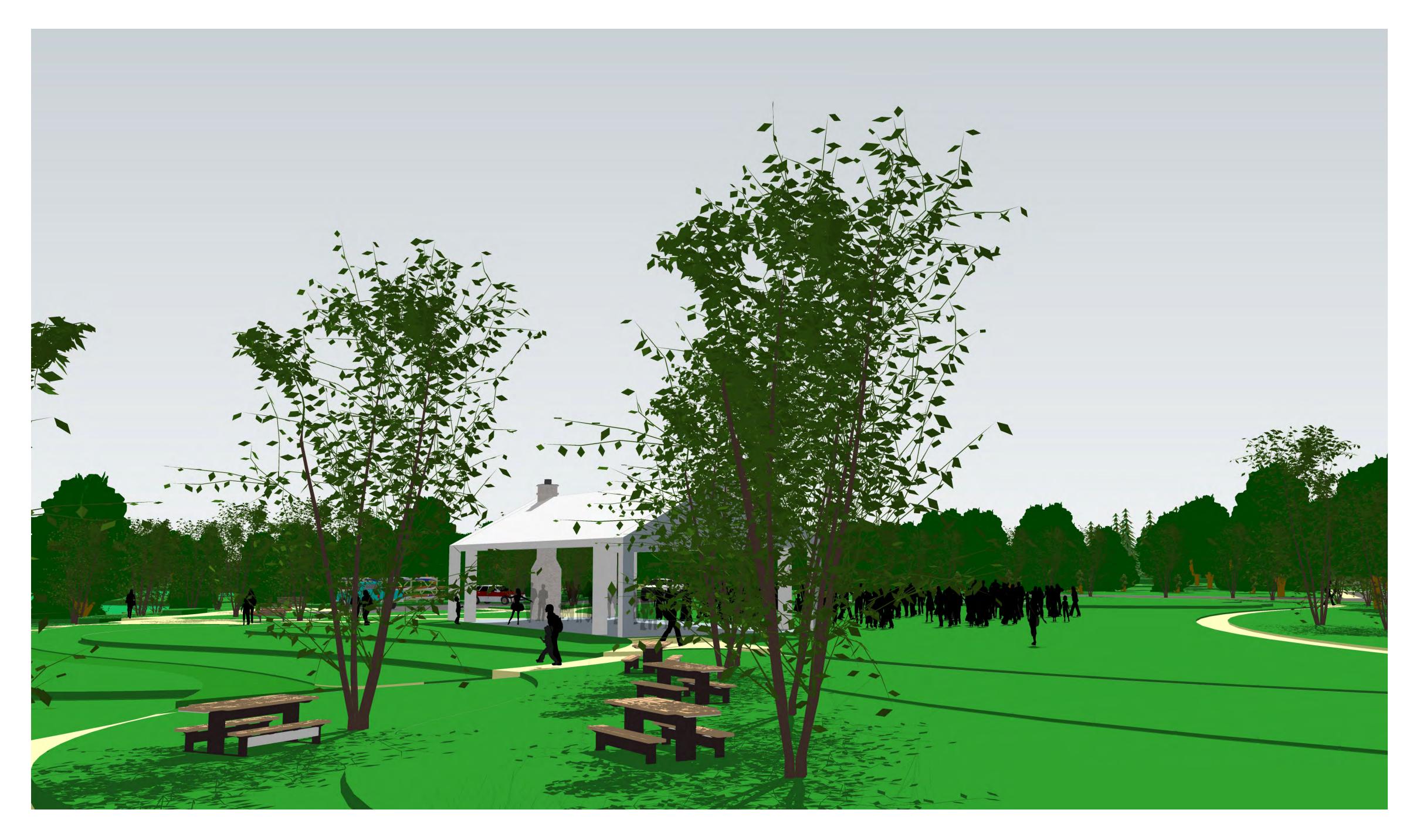








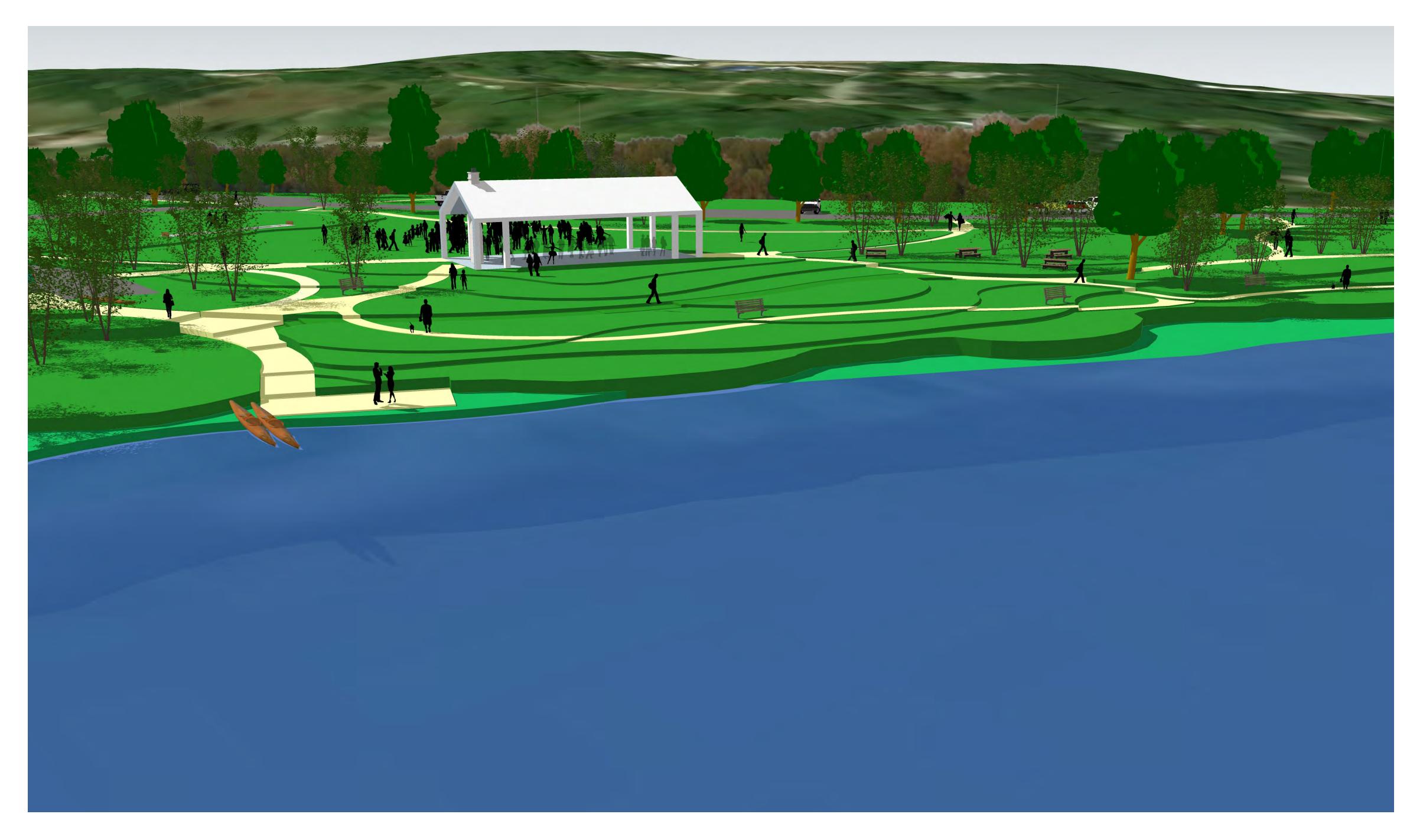






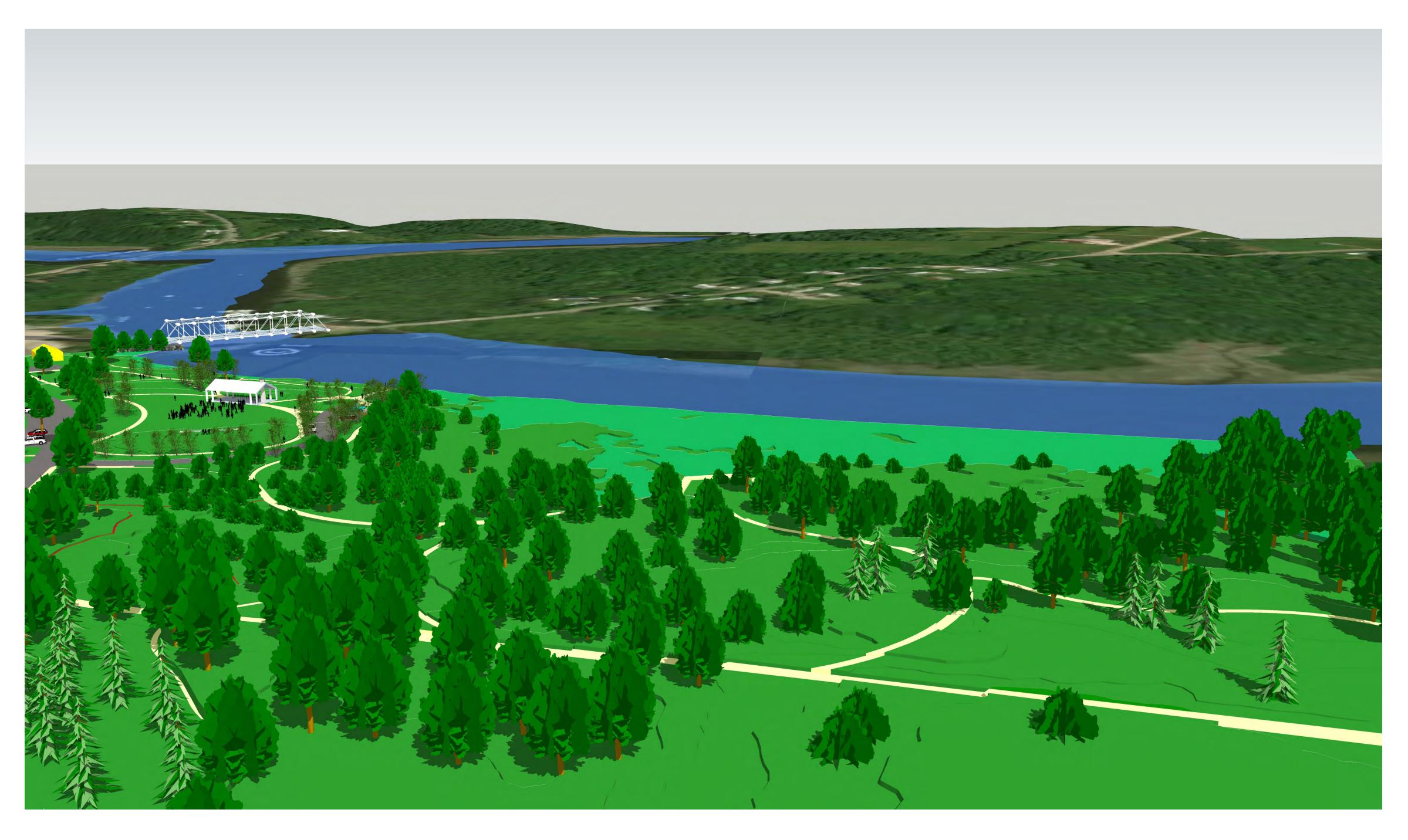






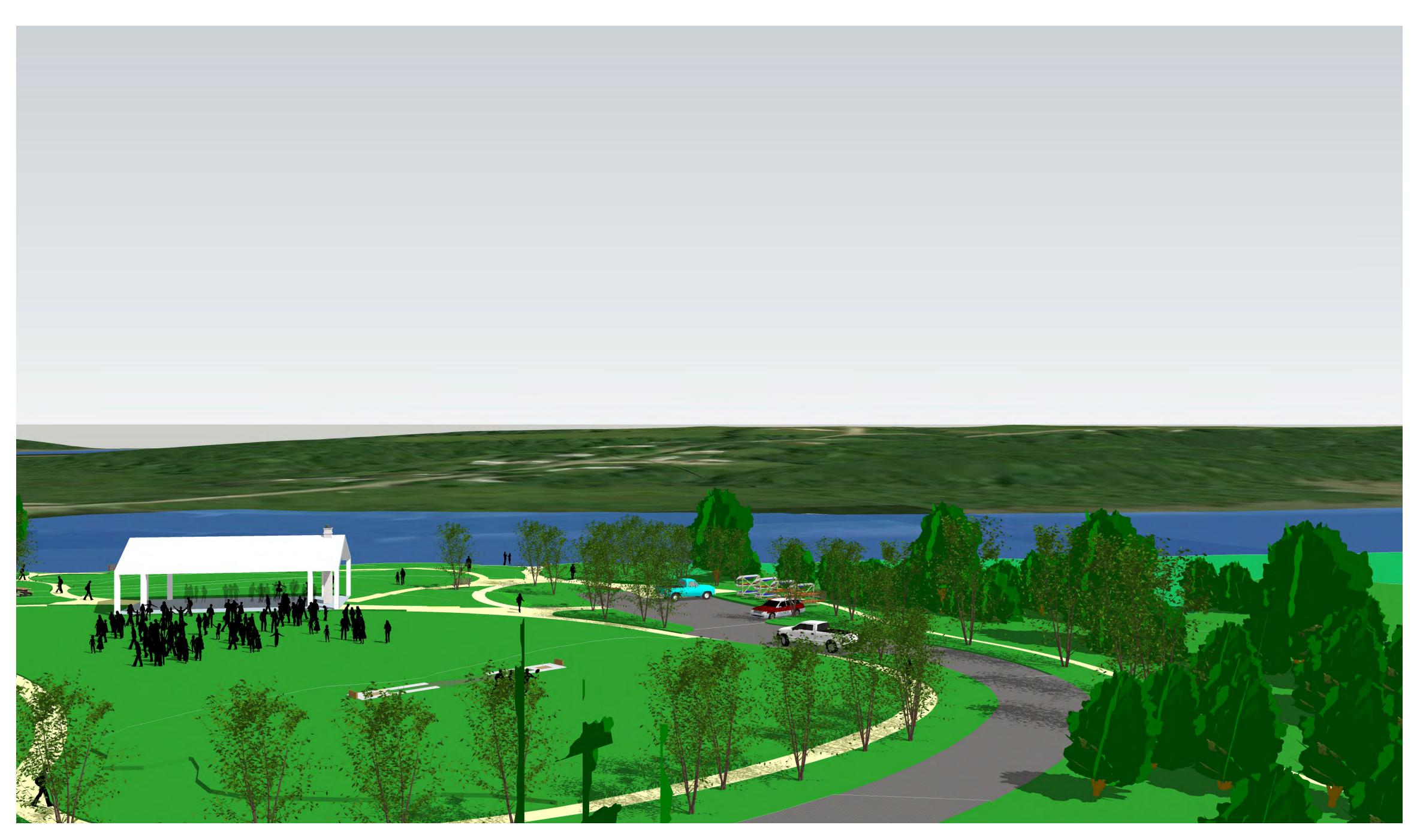






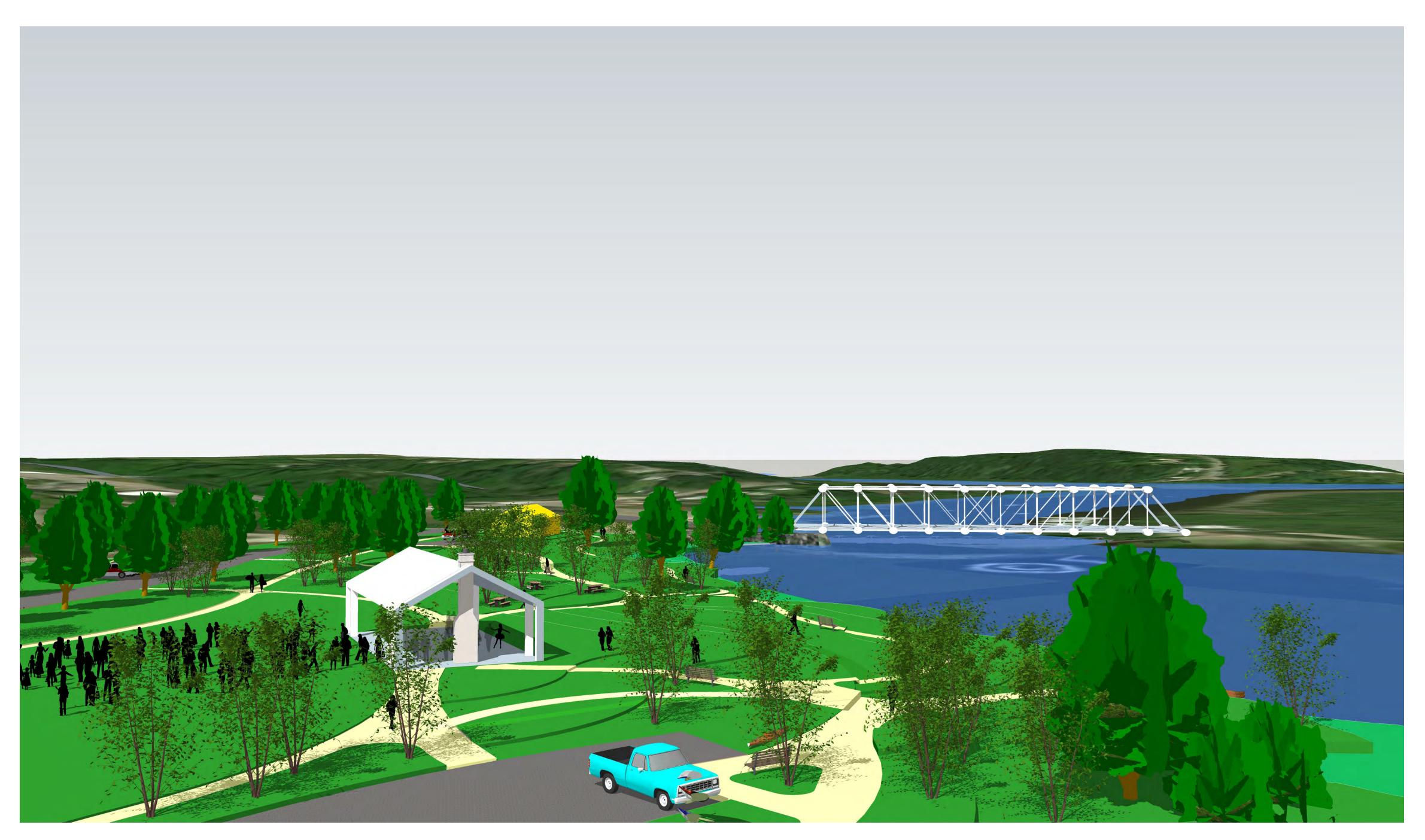














REVIEW OF DELIVERABLES

The following materials presented at the meetings below are enclosed in the draft packet:

Comprehensive Planning Committee Meeting

Meeting Date: February 12, 2019

Public Meeting 2

Meeting Date: November 7, 2018

Public Meeting 1

Meeting Date: September 20, 2018





PRELIMINARY FEE PROJECTION Ballpark Costs for Design & Engineering Services

OPTION 1: 100% CONSTRUCTION DOCUMENTS, BIDDING ADMINISTRATION, CONSTRUCTION ADMINISTR	ATION		
Including: Construction Documents Bidding Administration Construction Administration	Estimated Construction Cost \$2,000,000.00	HIGH \$240,000.00 12% of Estimated Construction Cost	LOW \$160,000.00 8% of Estimated Construction Cost
ESTIMATED TOTAL		\$240,000.00	\$160,000.00

Estimated Construction Cost \$2,000,000.00	HIGH \$156,000.00 65% of Design & Engineering Costs	LOW \$104,000.00 65% of Design & Engineering Costs
	\$154,000,00	\$104,000.00
		\$2,000,000.00 \$156,000.00

ncluding:	Estimated Construction Cost \$2,000,000.00	HIGH \$156,000.00	LOW \$104,000.00
Technical Documentation Necessary for Permitting (65% CD Set)		65% of Design & Engineering Costs	65% of Design & Engineering Costs
*not including Final Design or documentation beyond what's necessary for obtaining permits			
Phase I CD, BA, CA Includes:		\$20,000.00	\$15,000.00
Hand Carry Boat Access & Racks			
Limited Trails			
Picnic Area			
Car & Boat Trailer Parking			
Access Road			
Signage			
Crosswalk/Safety			
Some Landscape Planting			
*Shoreline Stabilization Design Development and Permitting as part of the Maine CC Grant			
		\$176,000.00	\$119,000.00





COASTAL COMMUNITIES GRANT

Existing Condition





COASTAL COMMUNITIES GRANT Overall Schedule Summary

Bowdoinham - Coastal Communities Grant

Bowdoinham, Maine

Schedule

January 24, 2019

Richardson & Associates, Landscape Architects

Data Collection

Outreach

						20)19						2020												
	January	February	March	April	May	June	July	August	Septembe	r October	November	December	January	February	March	April	May	June	July	August	September	October	November Decemb		
Task I. Topographic Survey																									
							<u> </u>							<u> </u>											
ask 2. Ecological Assessment and Wetland Delineation																									
		<u> </u>												<u> </u>				<u> </u>							
ask 3. Assessment of Flood Risk																									
ask 4. Design and Permitting of Slope Stabilization Measures																									
ask 5. Education and Outreach																									
Jack 6 Overall Project Management																									
ask 6. Overall Project Management																			<u> </u>						



COASTAL COMMUNITIES GRANT Living Shorelines

What are the common benefits of living shorelines?

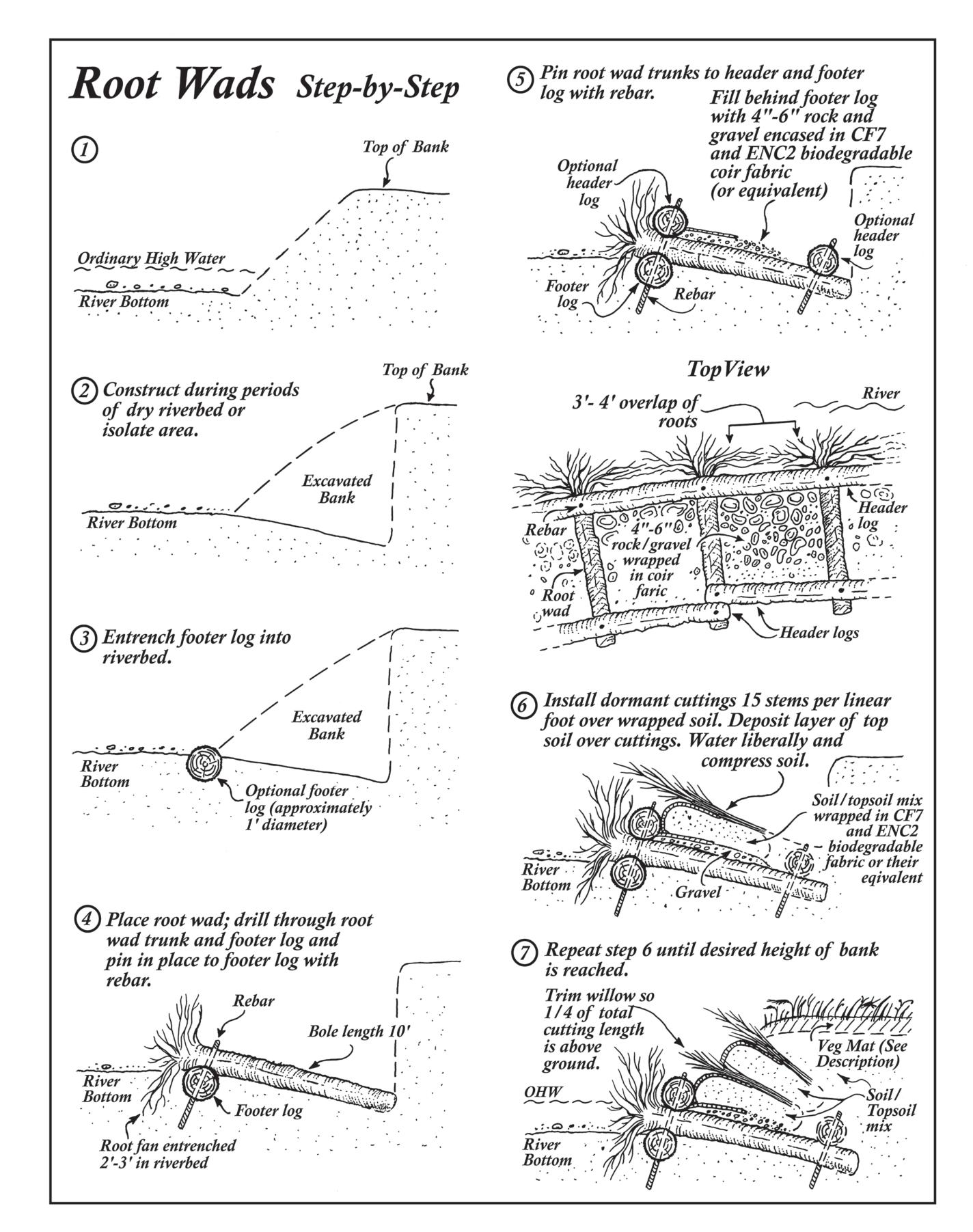
- Protect shorelines from erosion
- Provide habitat for fish and other living resources
- Improve water quality and store nutrients
- Increase stability over time
- Can outperform hardened shorelines during storm
- Attract natural wildlife



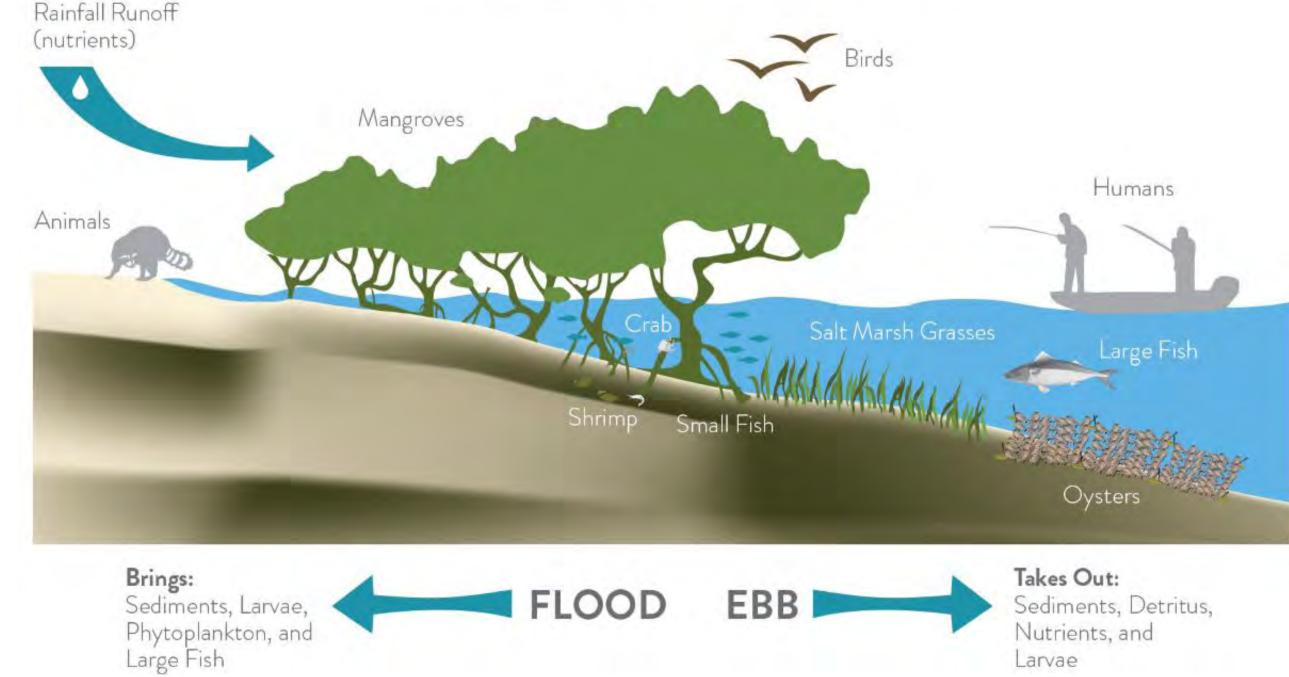
Richardson & Associates,

COASTAL COMMUNITIES GRANT

Living Shorelines













COASTAL COMMUNITIES GRANT

Living Shorelines



