

BEN PARKER

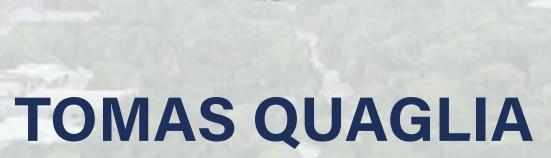
Master of Architecture in Urban Design

KARLESTON



RACHAYA WATTANASIRICHAIGOON

Master of Landscape Architecture



Master of Architecture in Urban Design

Faculty Advisor **RICHARD PEISER** Professor of Real Estate Development







EMILY JOHANSEN

Master of Urban Planning

Professional Advisor **MICHAEL MANFREDI** Weiss/Manfredi

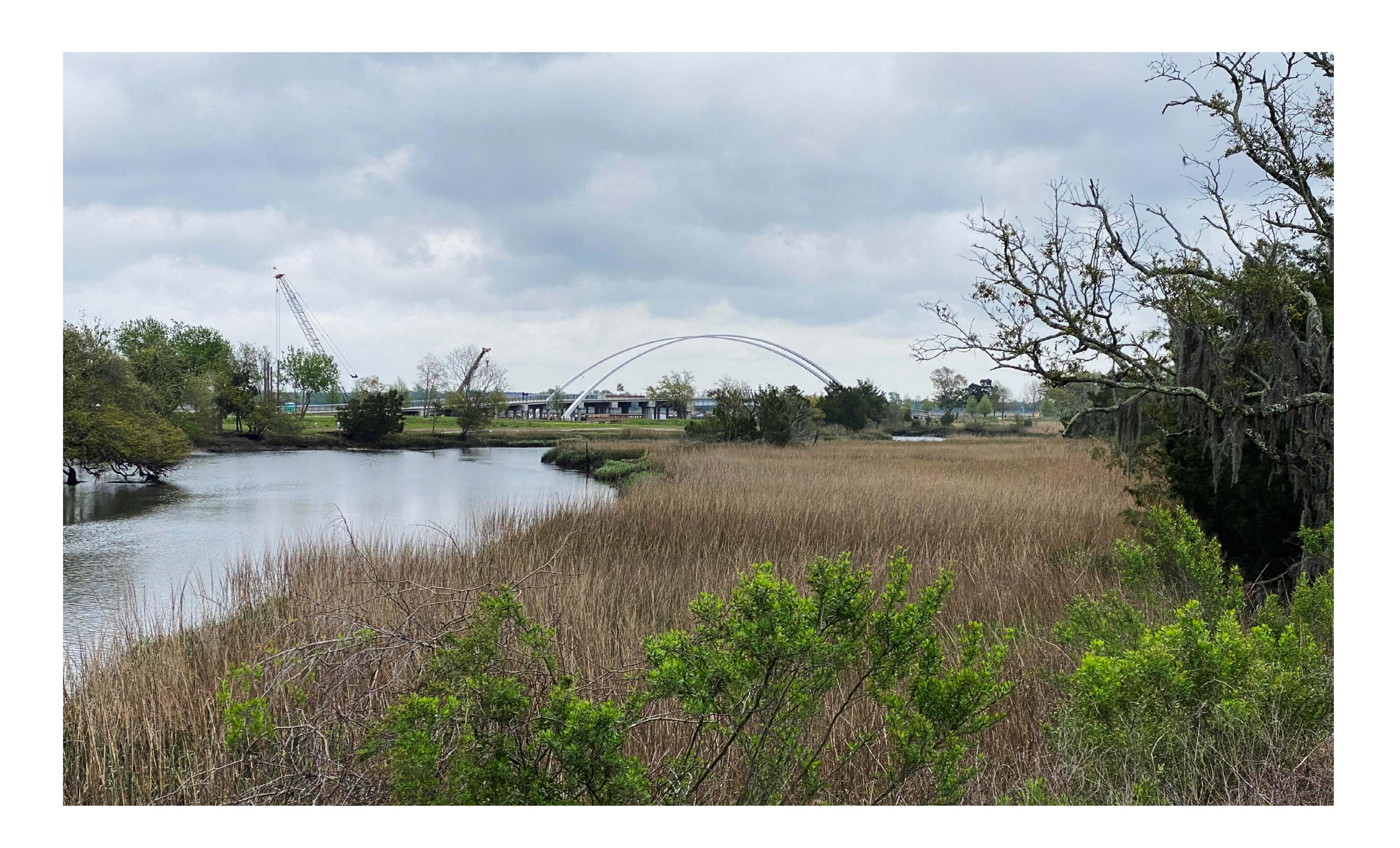


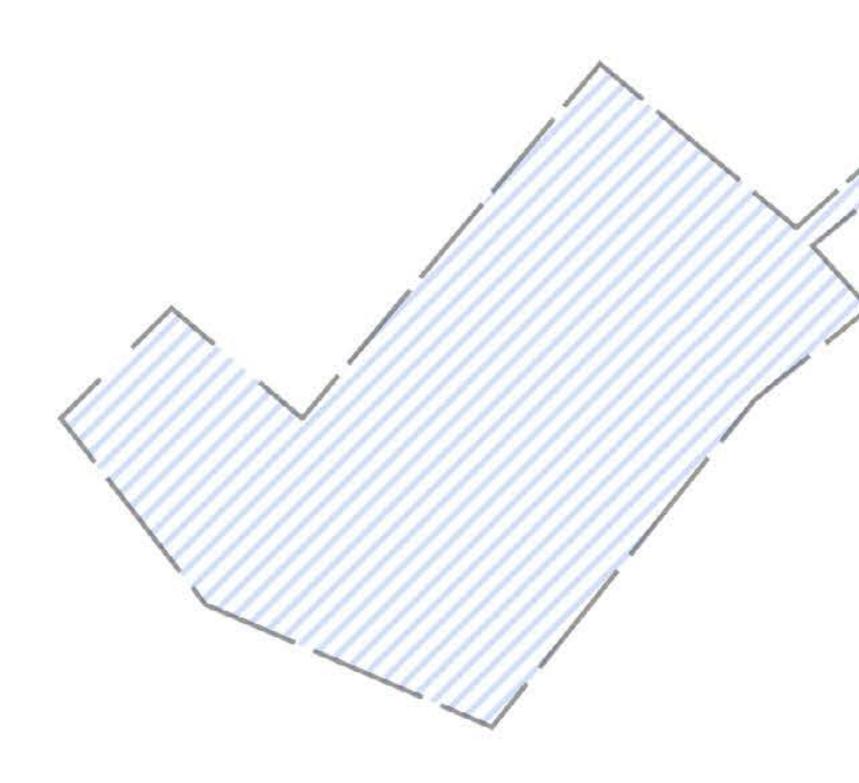
Team Code : 2023-8335



YOUNGSOO YANG

Master of Architecture in Urban Design





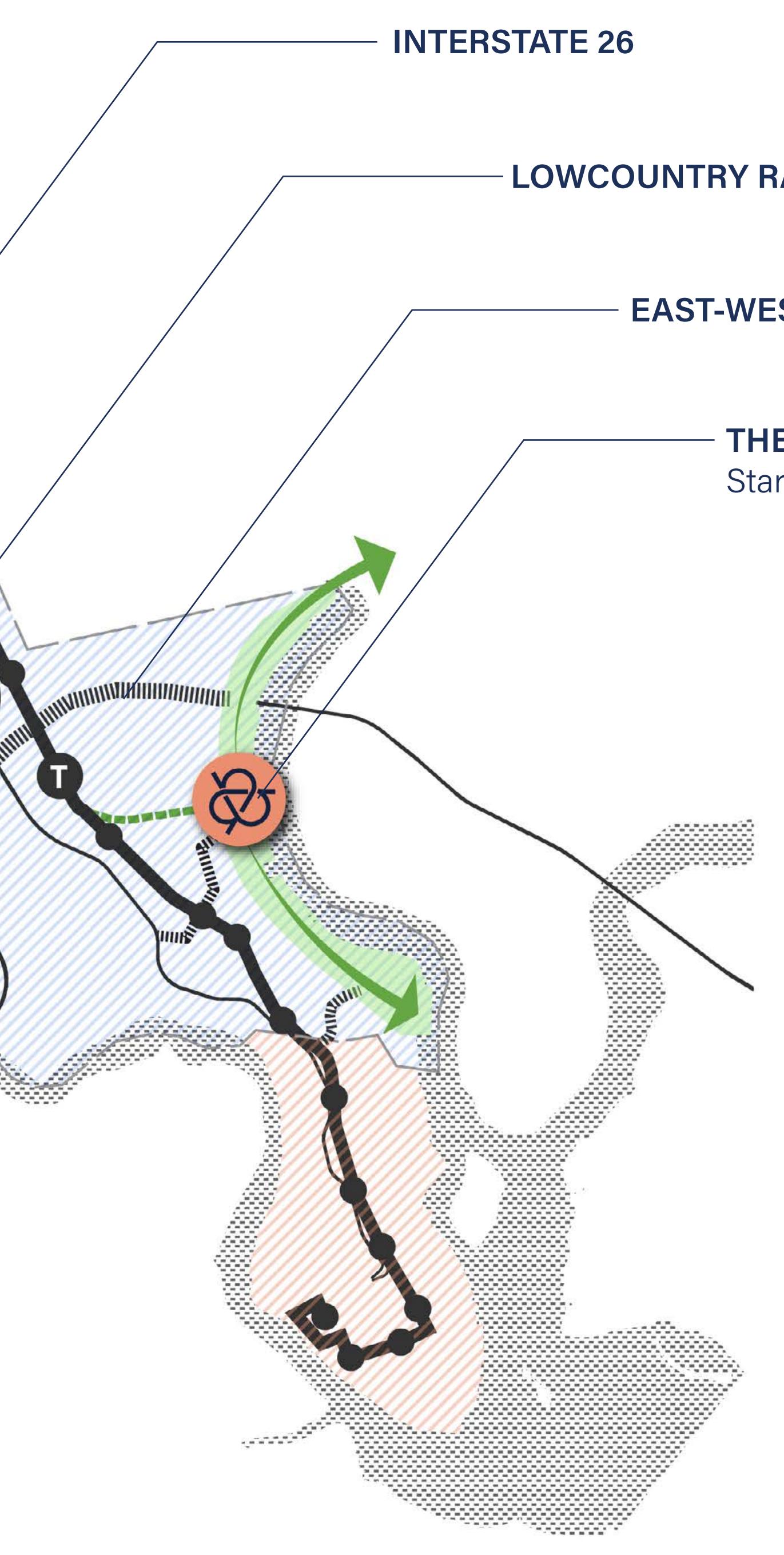


STATE OF

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REGIONAL VISION

LOWCOUNTRY RAPID TRANSIT

EAST-WEST CONNECTIONS

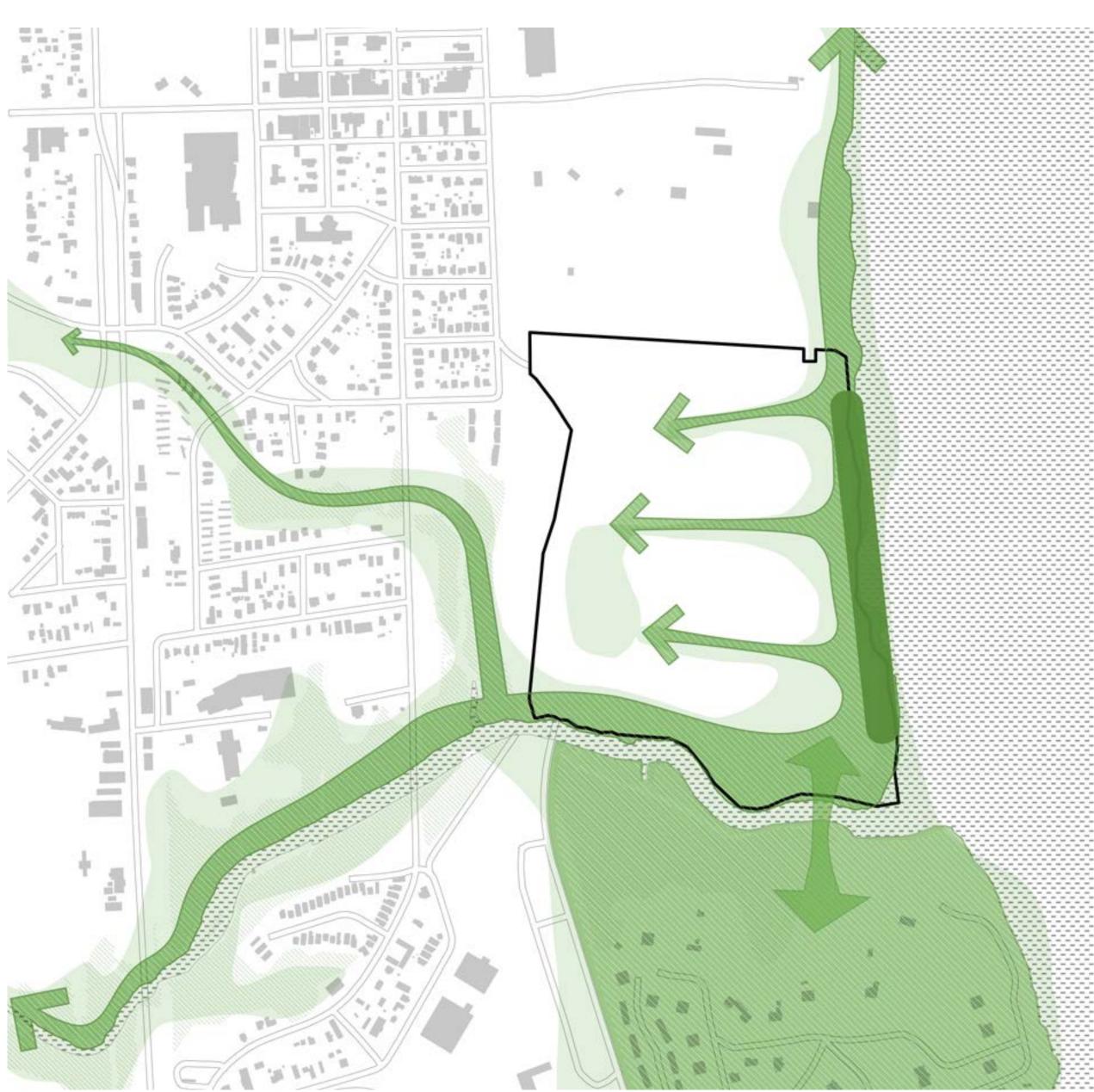
THE KNOT Start of a New Civic Waterfront





RESILIENCE

Green Infrastructure





Local + Regional





ECONOMY





COMMUNITY Neighborhood Links





LOW IMPACT DESIGN LOW IMPACT PARKING -**BROWNFIELD REDEVELOPMENT FLOOD RESILIENT DESIGN -INFRASTRUCTURE INCREASED MOBILITY RAILS TO TRAILS -TRANSPORTATION CREDITS -**LEED V4 NEIGHBORHOODS -

ART MUSEUM -NEW DOWNTOWN -**COMPLETE STREETS -AFTER SCHOOL PROGRAMS** -**EXPANDED RIVERFRONT PARK**-**FITNESS AMENITIES -**WELL V2 COMMUNITY STANDARD -LIVING COMMUNITY CHALLENGE 1.2 -FAITH-BASED ORG. SPACE

COMMUNITY & STAKEHOLDER ENGAGEMENT



CERTIFICATION FRAMEWORK TARGETS:

LEED for Neighborhood Development: Gold WELL Community Standard: Platinum A Living Community (Living Community Challenge Certified)





M

ECONOMY

WELL

AFFORDABLE HOUSING **TRANSITIONAL HOUSING** ACCESSIBLE JOBS JOB TRAINING LOW TAX IMPACT **NEW GROCERY STORE** FARMER'S MARKET **SUBSIDIZED DAYCARE BUSINESS INCUBATION**

the new American City

Themes: 4/4 Goals: 14/15 Sub-goals: 28/60 [addressed sub-goals are noted in brackets next to each benefit]



PREVIOUS &

HARENT COMMUNITY

PLANS

PRIME NORTH CHARLESTON GOALS THE KNOT ADDRESSES:



KARLESTON







COMMUNITY

1	Noisette Market
2	Art Museum
3	Culinary Institute
4	Health Center
5	Branch Library
6	Charter School
7	Interfaith Center
8	Office Flex Space
9	Fitness Center

ECONOMY

- **10** Cooper Pier
- 11 Visitor Center
- **12** Boutique Hotel
- **13** Performance Venue
- 14 Parking Plus
- **15** Retail Anchor
- **16** Grocery Store
- **17** Creative Industrial
- **18** Seafood Pier

RESILIENCE

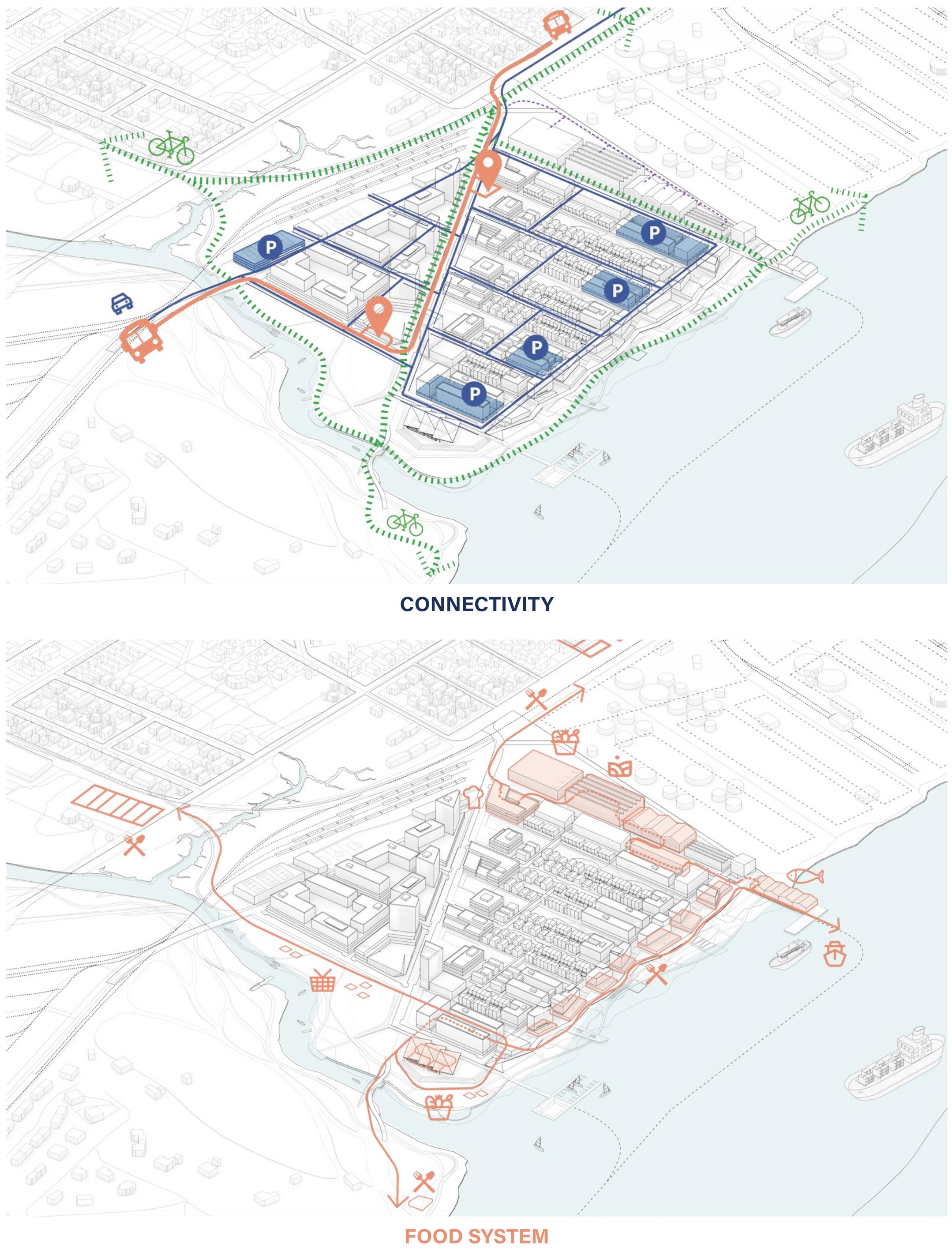
- 19 Event Lawn
- **20** Boardwalk
- 21 Riverwalk
- 22 River Plaza
- **23** Storm Garden
- 24 Sports Fields
- **25** Energy Plant
- **26** Dog Park

400

27 Kayak Dock

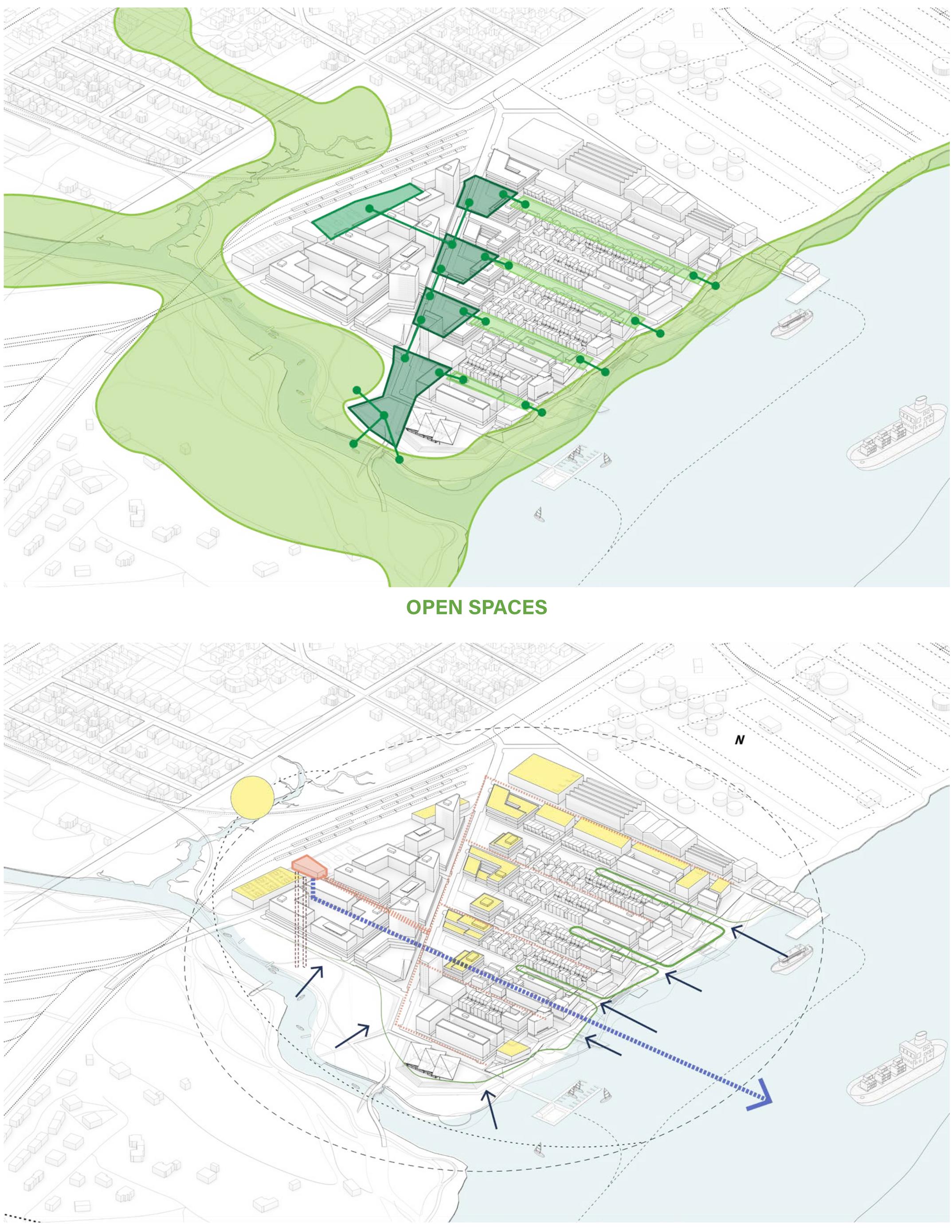
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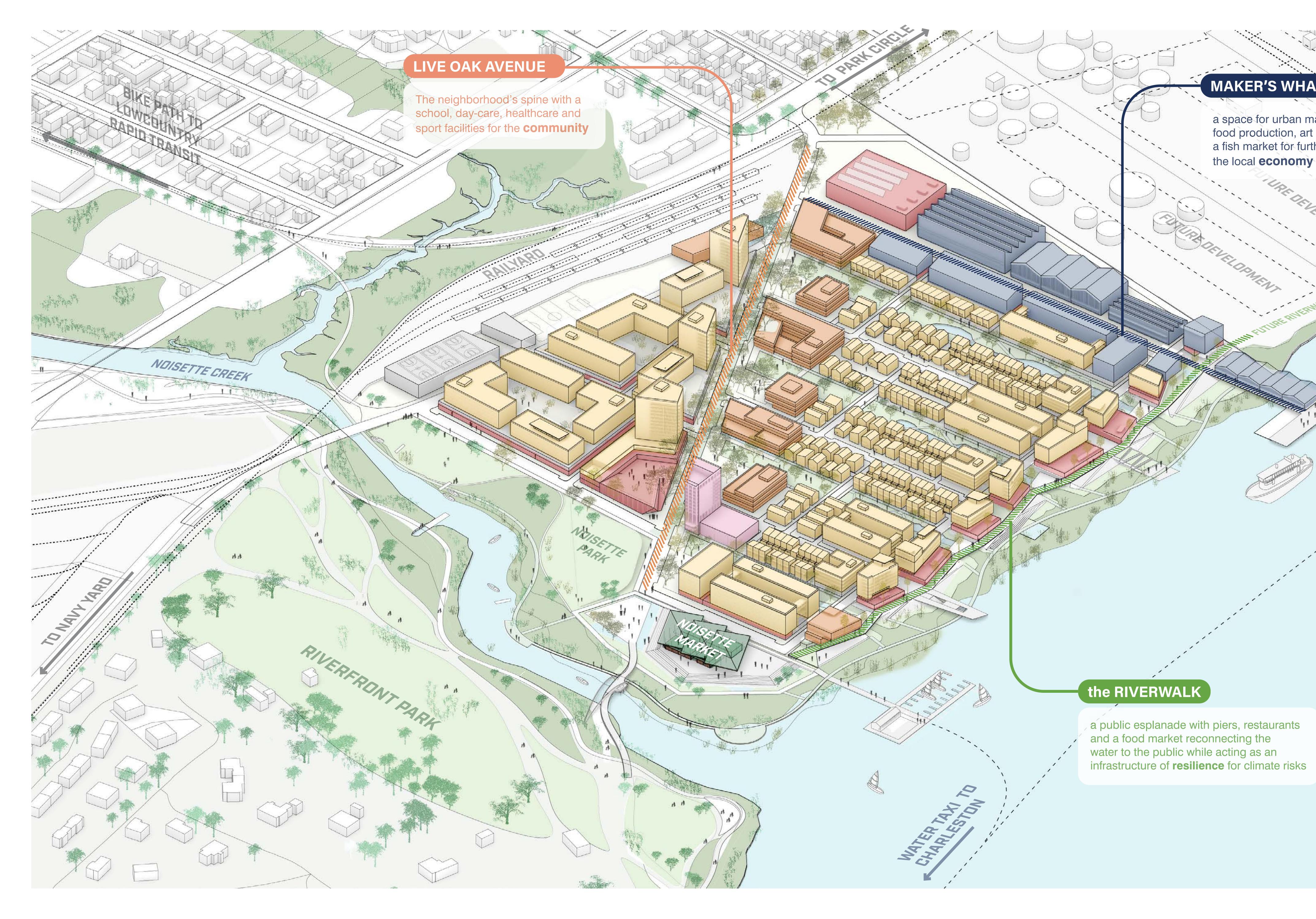
800 FT





SUSTAINABILITY





KNOT CHARLESTON





FLORMENT

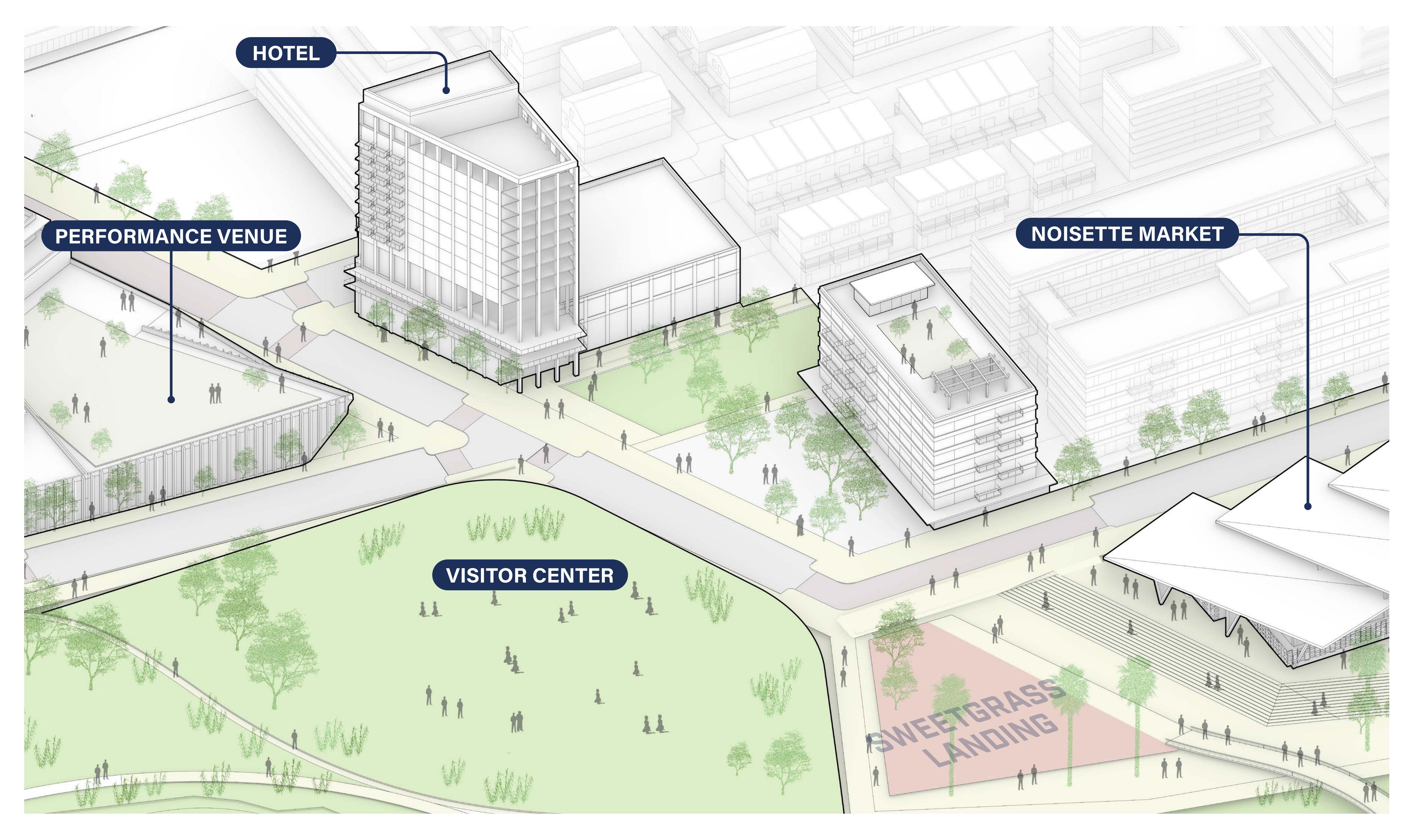
FUTURE RIVERVA

a space for urban manufactering, food production, art studios and a fish market for further growth of the local economy

TELOIDANEN.

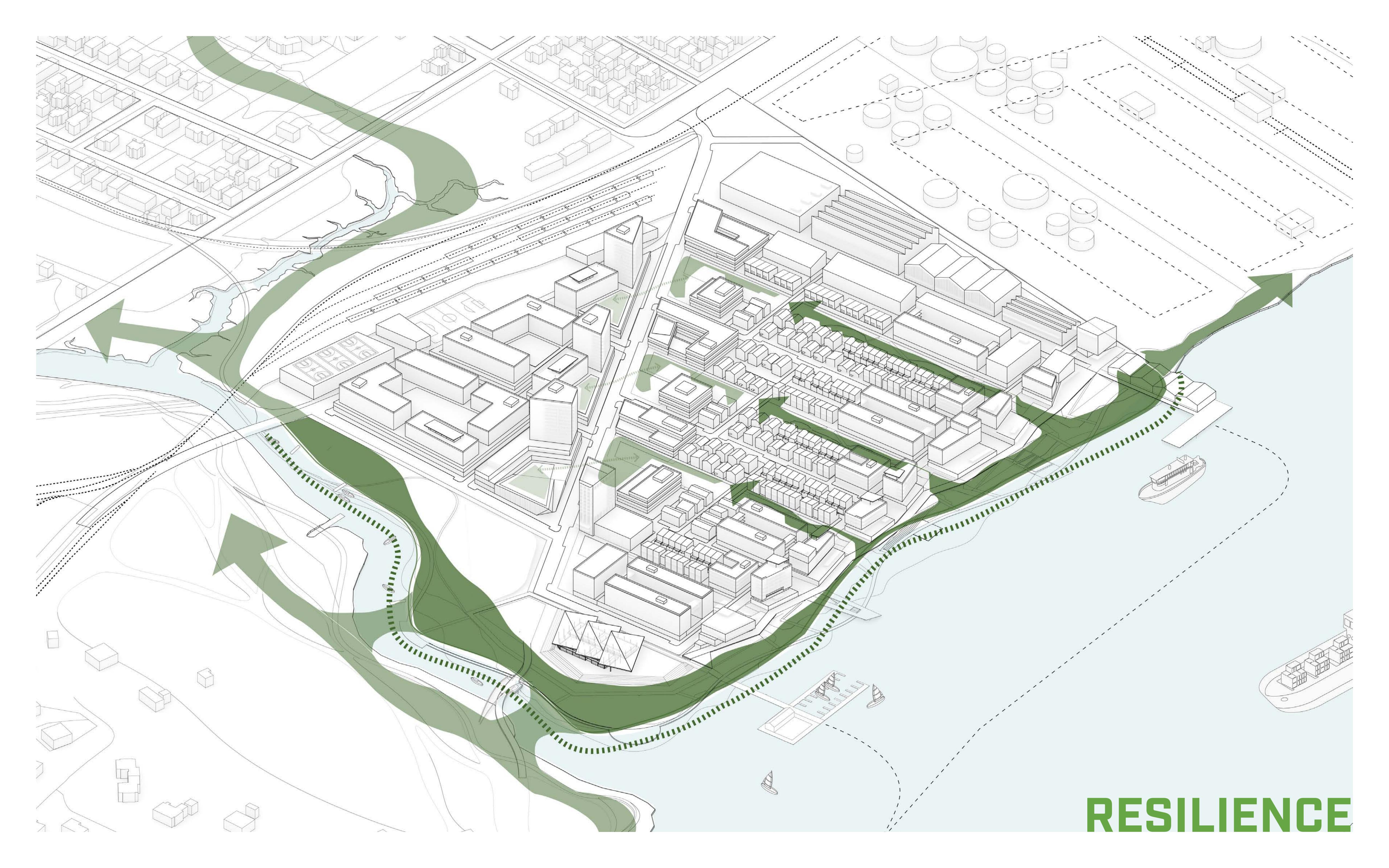
LEGEND

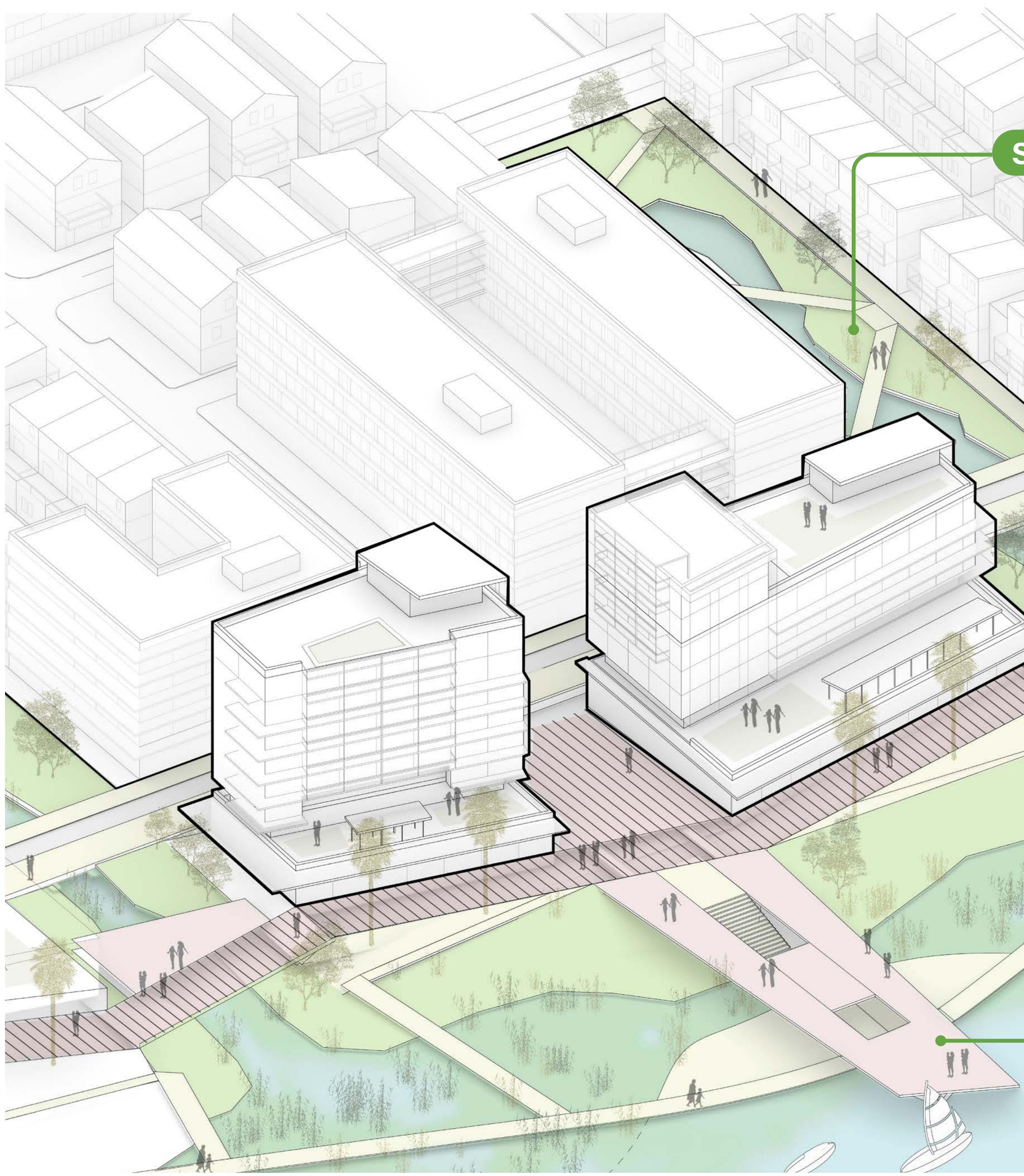




SWEETGRASS LANDING



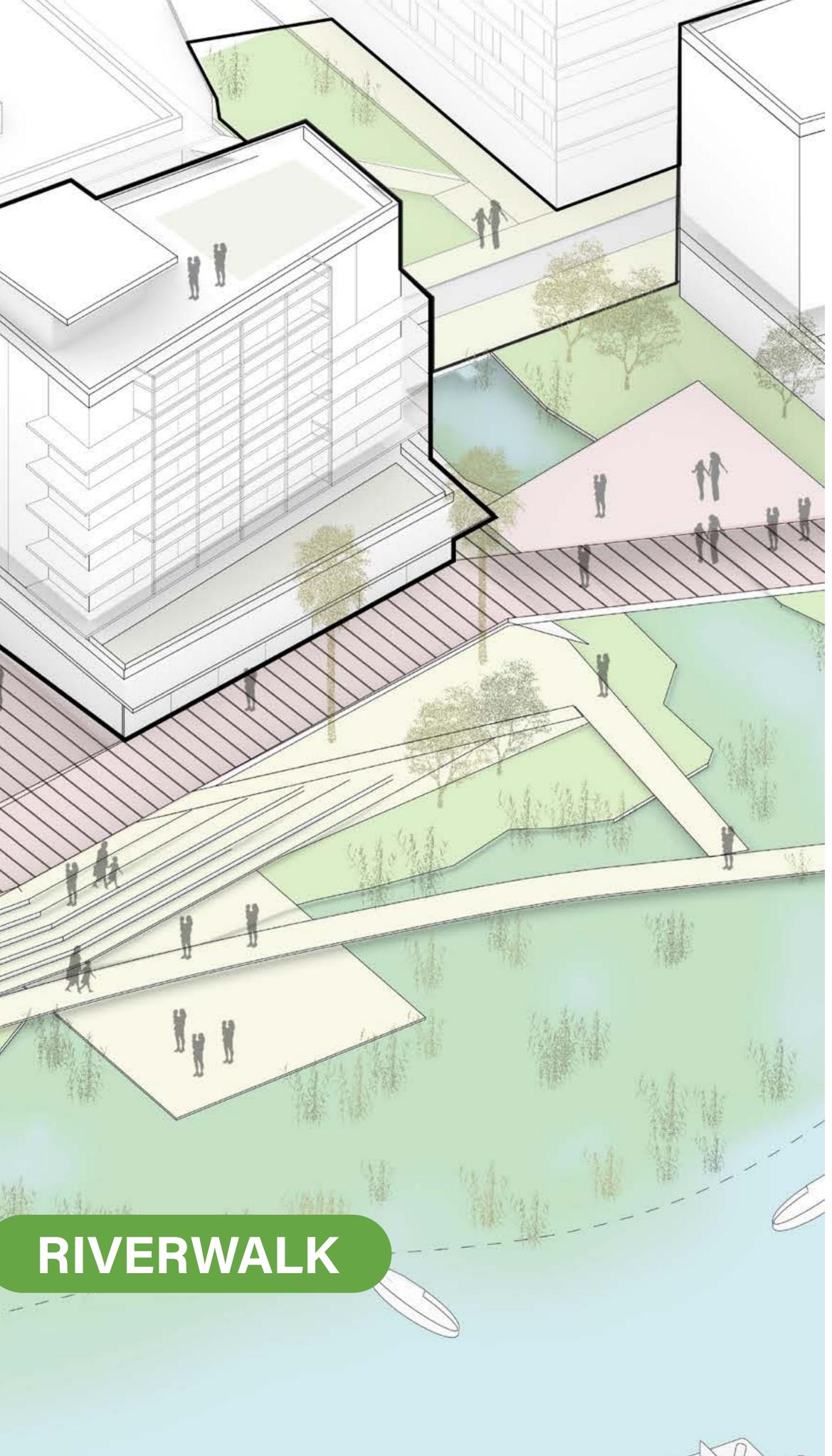






STORM GARDEN

COOPER OUTLOOK







Low Marsh Smooth Cordgrass

High MarshSalt HayBlack Needle Rush

Coastal Dune • Sea Oats Accessible Ramp

Salt FlatSaltwortGlasswort

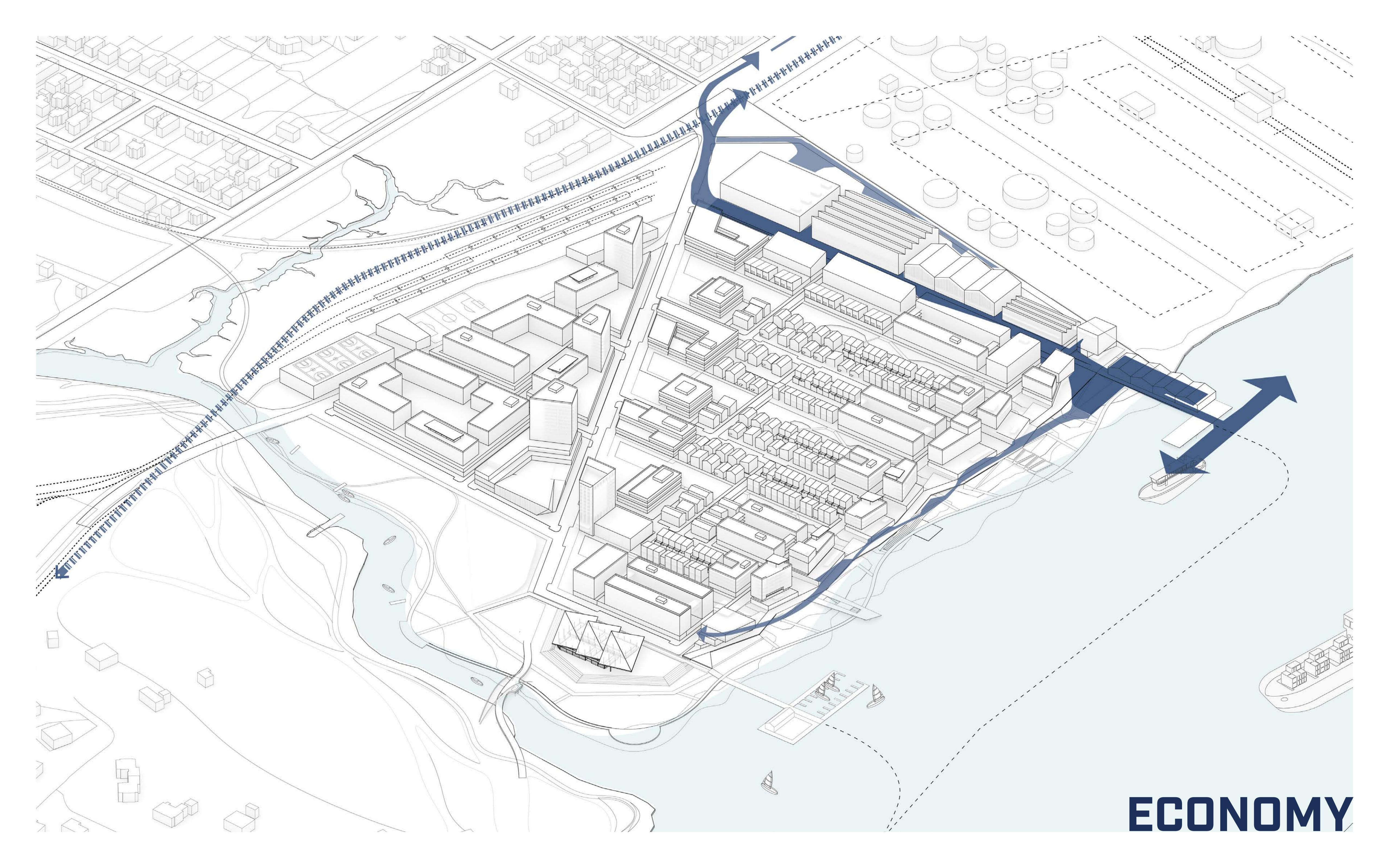
Shrub ZoneWax MyrtleYaupon Holly

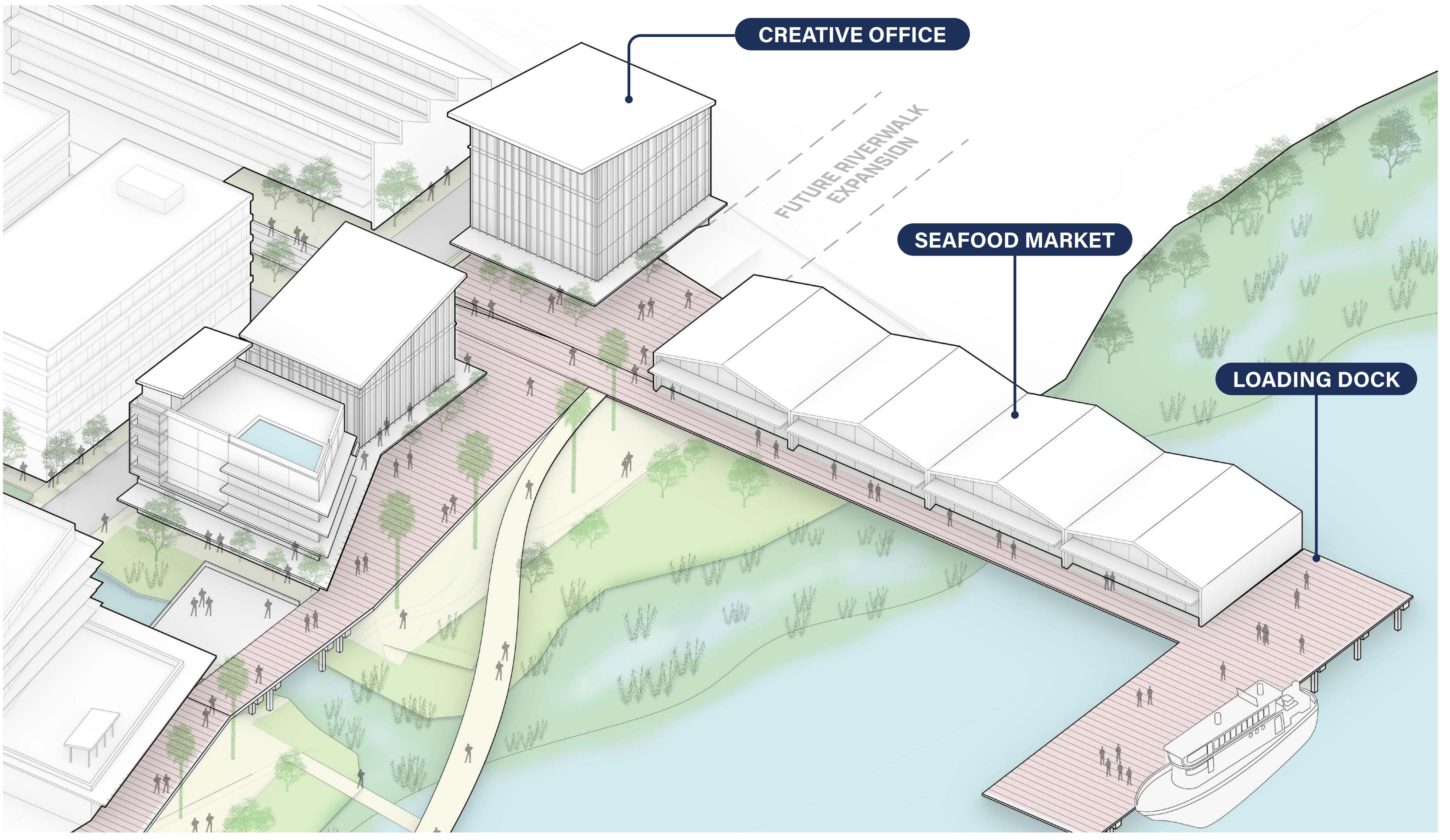


+0 ft Site Level

Maritime Forest

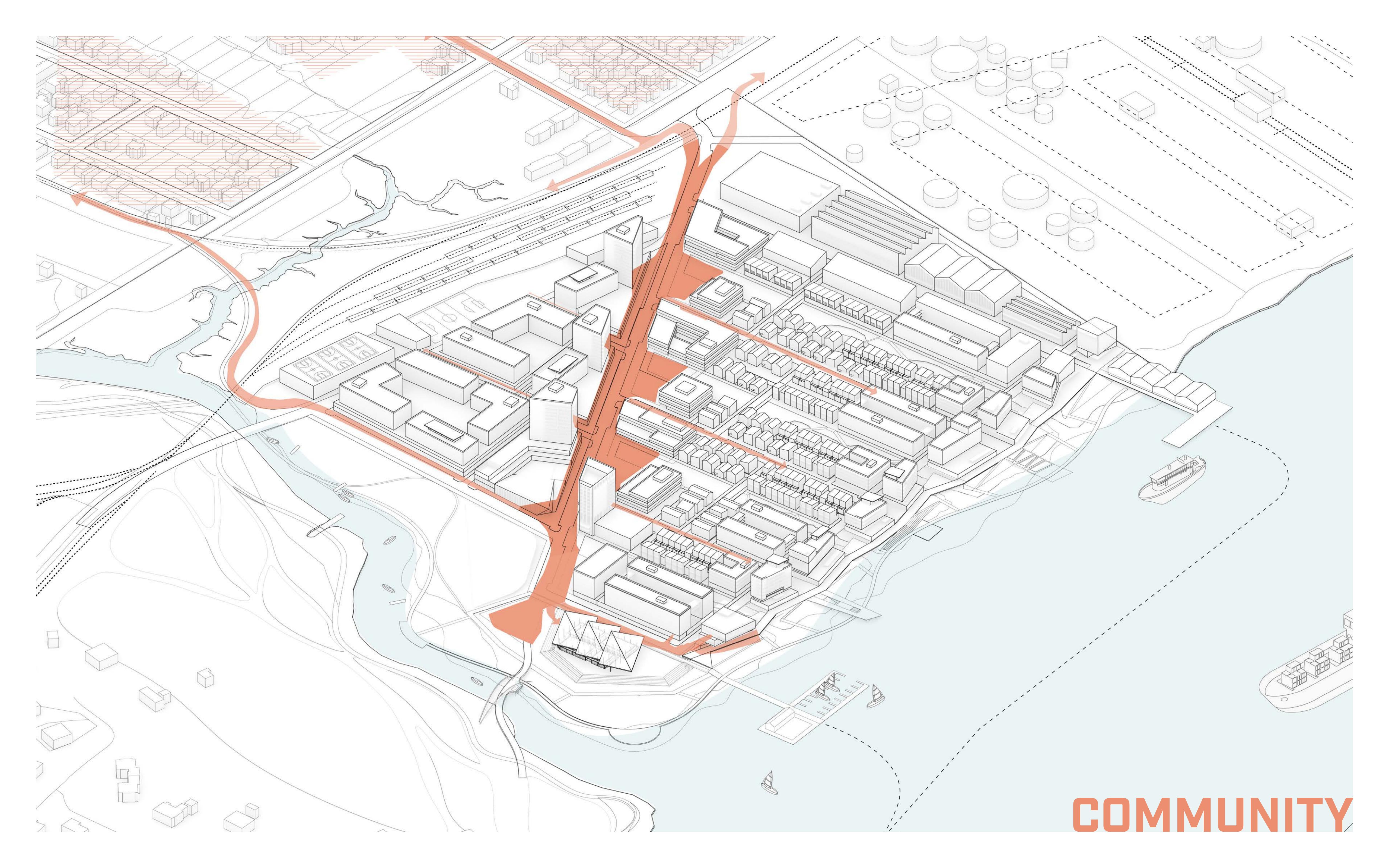
Palmetto
Southern Magnoli

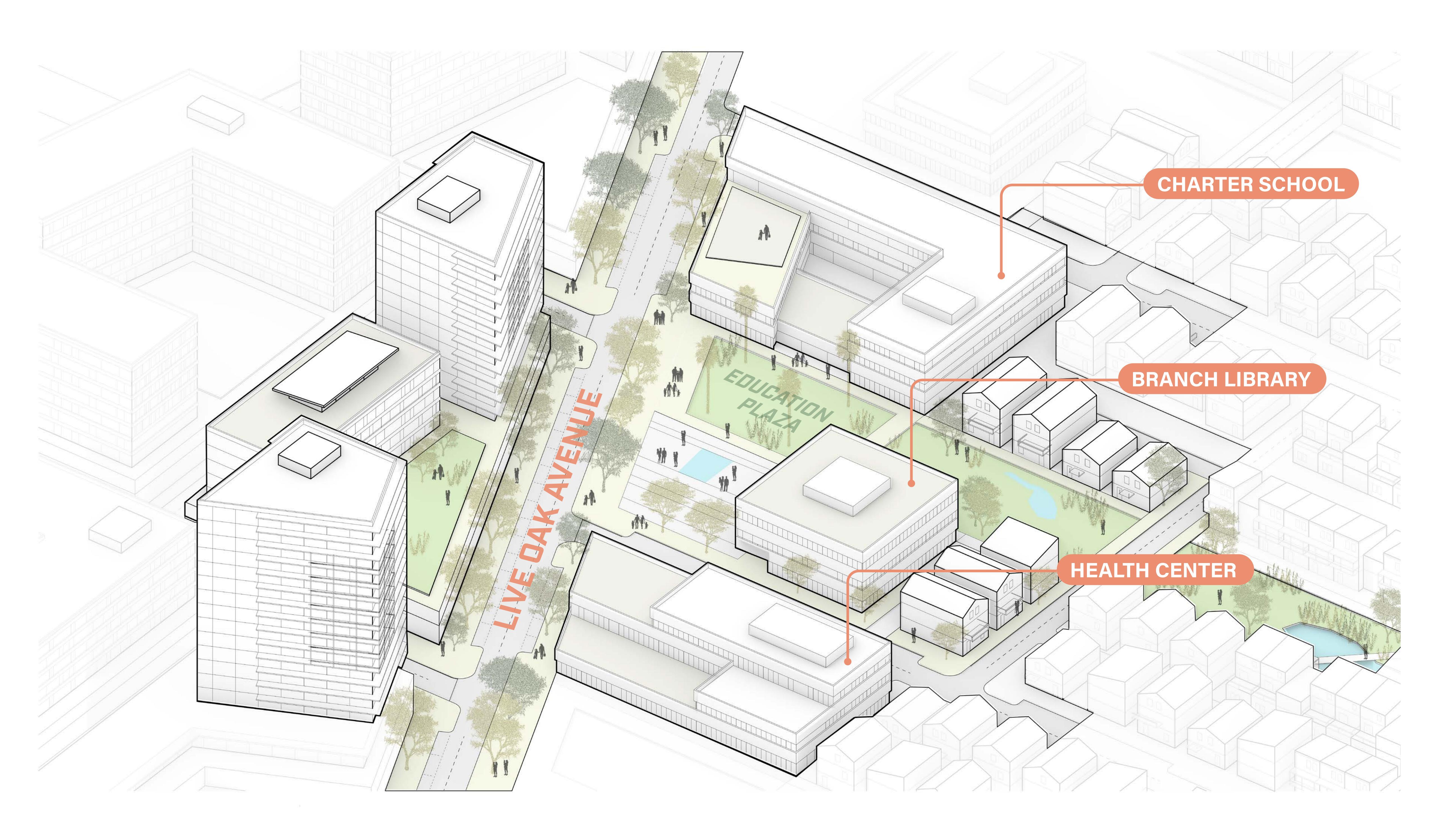








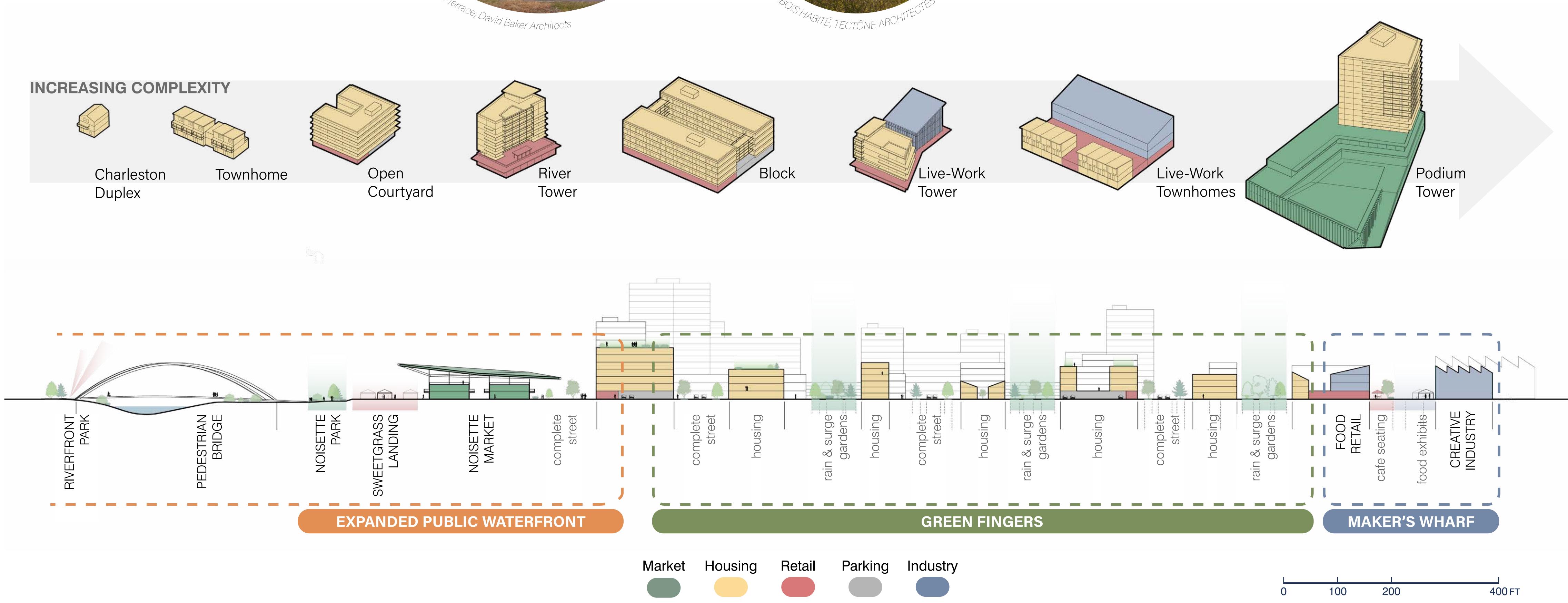






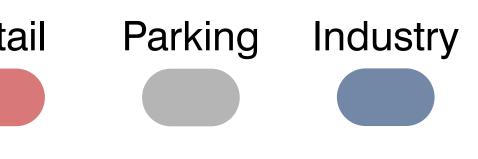




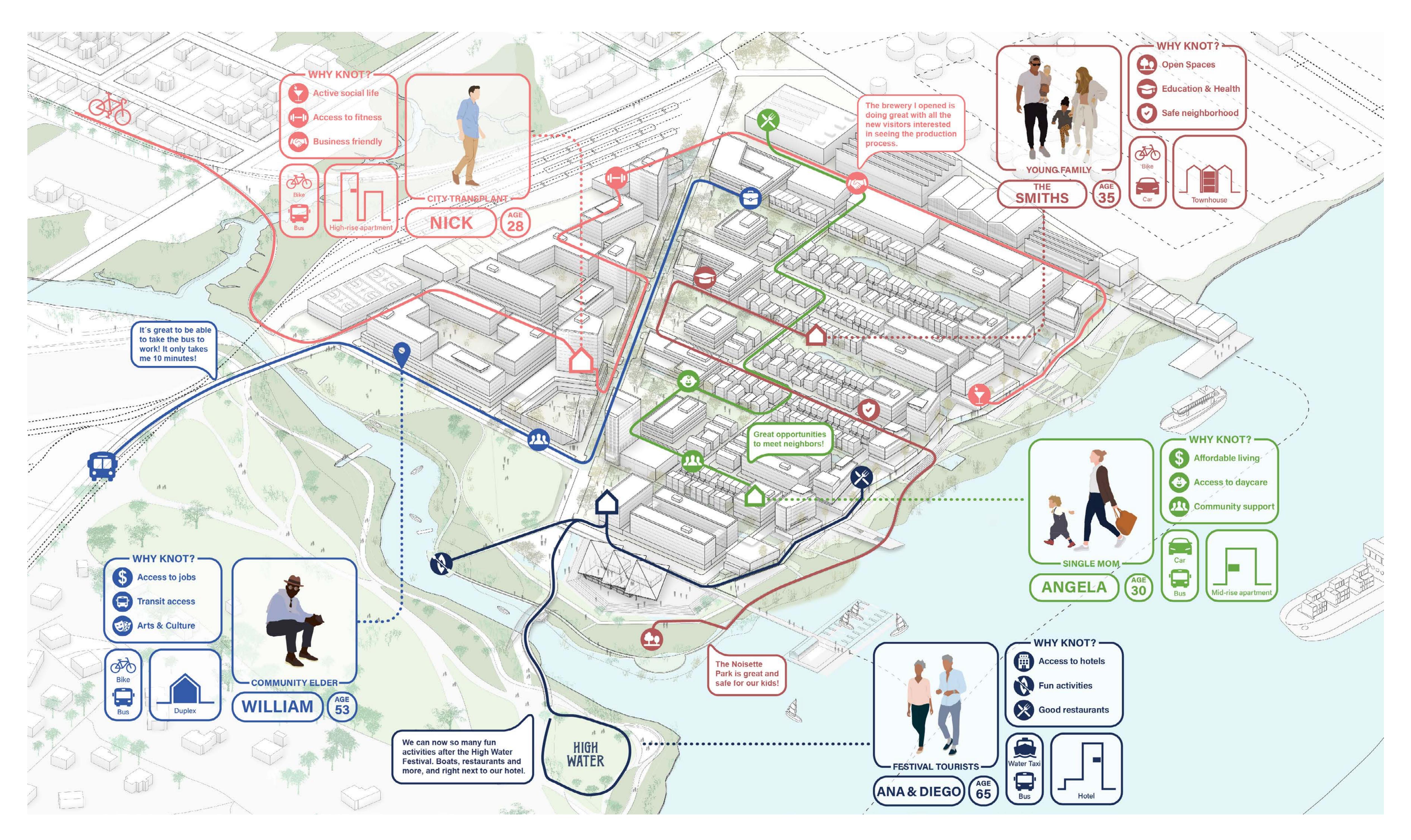






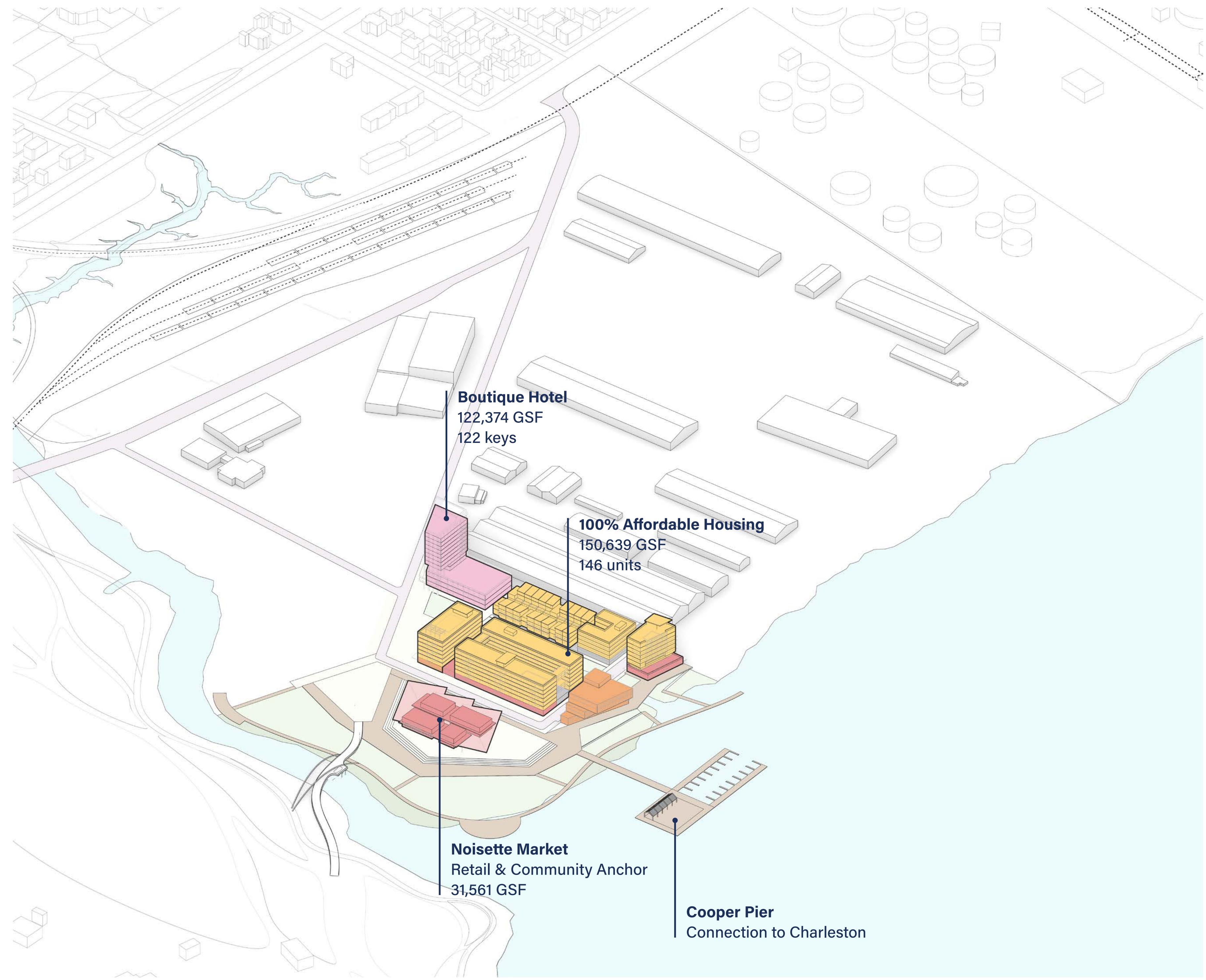






A DAY IN THE KNOT





PHASE | 2024 - 2028 Making a Place

Residential	321,728 SF
Retail	67,294 SF
Community	36,590 SF
Hotel	122,374 SF
Cultural	0 SF
Office Flex	0 SF
Industrial	0 SF
Parking	61,378 SF
Total	609,724 SF

\$182,594,341

\$184,046,647

55%

Total Cost	
Total Value	
Loan-to-Value	

Affordable Units
Parking Ratio

Open Space Bike Lanes Infrastructure Cost

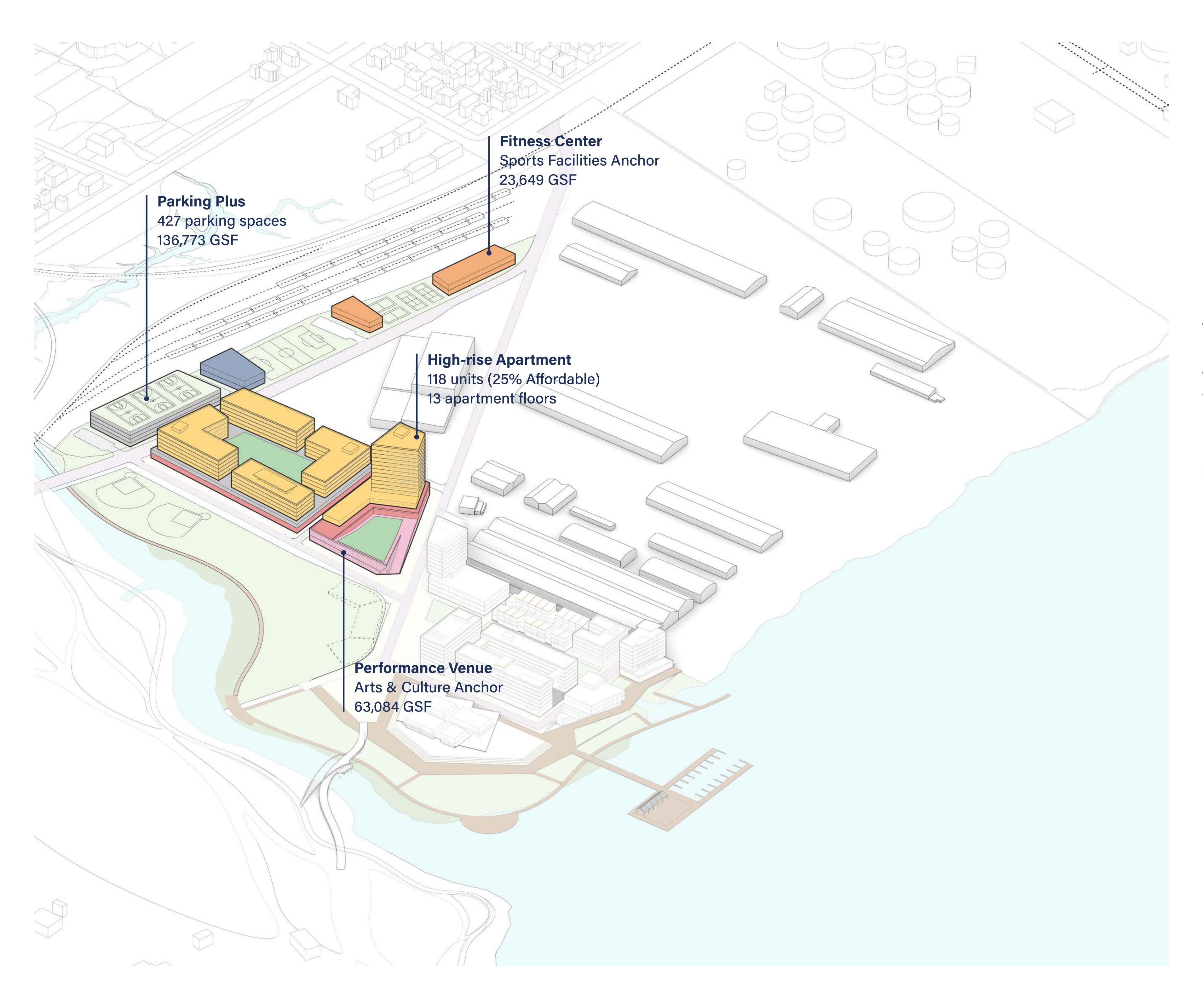
179 Units	58%	310 Total
0.95		

Unlevered IRR 10.87%

Levered IRR 24.16%

430,367 SF	9.9 ACRE
4,993 FT	
\$14,840,262	





PHASE II 2026 - 2038 Catalyzing Community

Residential Retail Community Hotel Cultural Office Flex

Industrial

Parking

Total

Total Cost Total Value Loan-to-Value

Affordable Units Parking Ratio

Open Space Bike Lanes Infrastructure Cost

	521,337 SF
72,022 SF	
49,916 SF	
0 SF	
94,626 SF	
0 SF	
19,967 SF	
332,826 5	SF

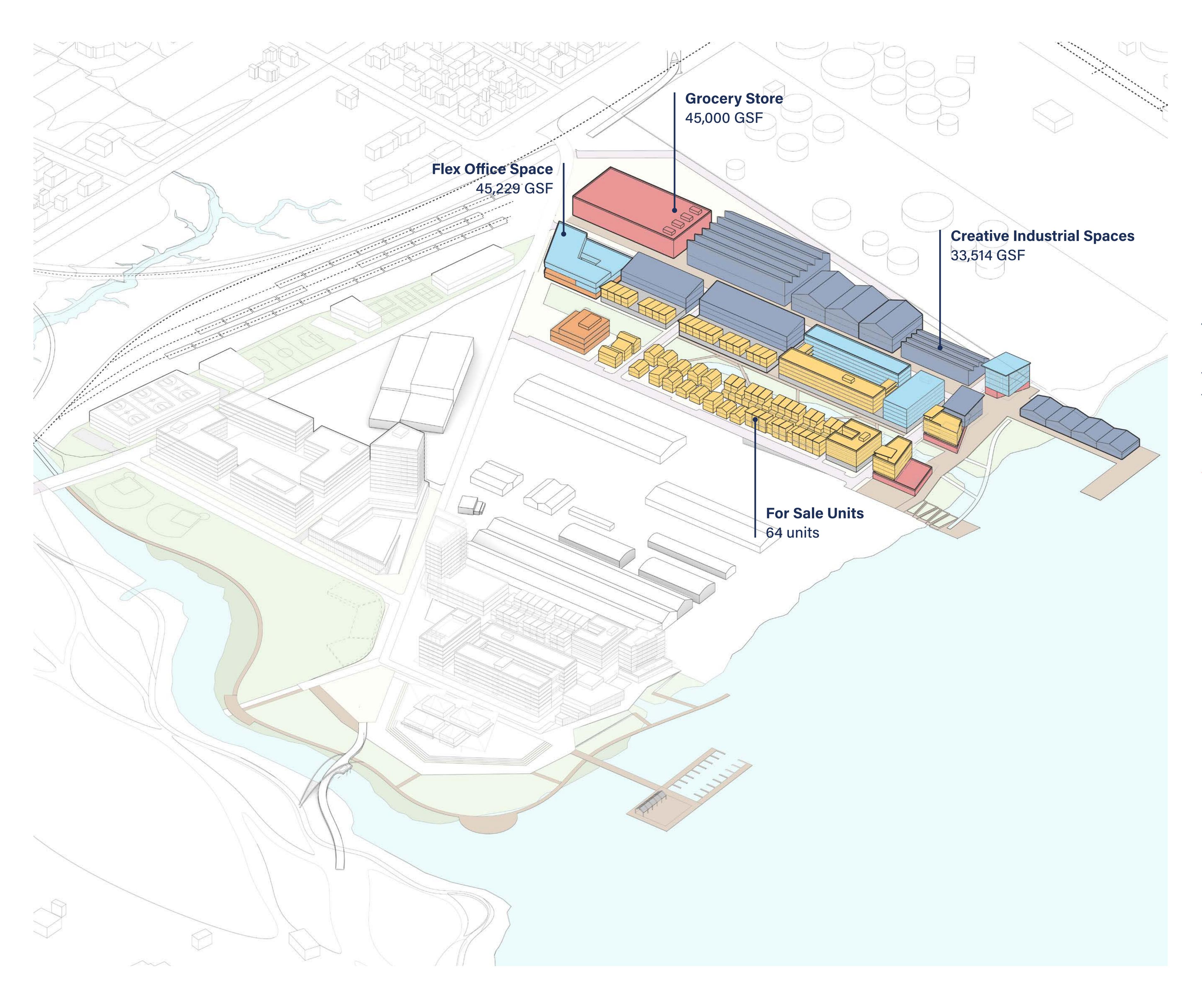
1,090,694 SF

\$266,452,351	Unlevered IRR	11.81%
\$305,096,579	Levered IRR	18.65%
70%		

126 Units	25%	499 Total
2.32		

402,016 SF	9.2 ACRE
6,670 FT	
\$18,707,662	





PHASE III 2028 - 2032 Building Capacity

- Residential Retail Community Hotel Cultural Office Flex
- Industrial
- Parking

Total

Total Cost Total Value Loan-to-Value

Affordable Units For Sale Units Parking Ratio

Open Space Bike Lanes Infrastructure Cost

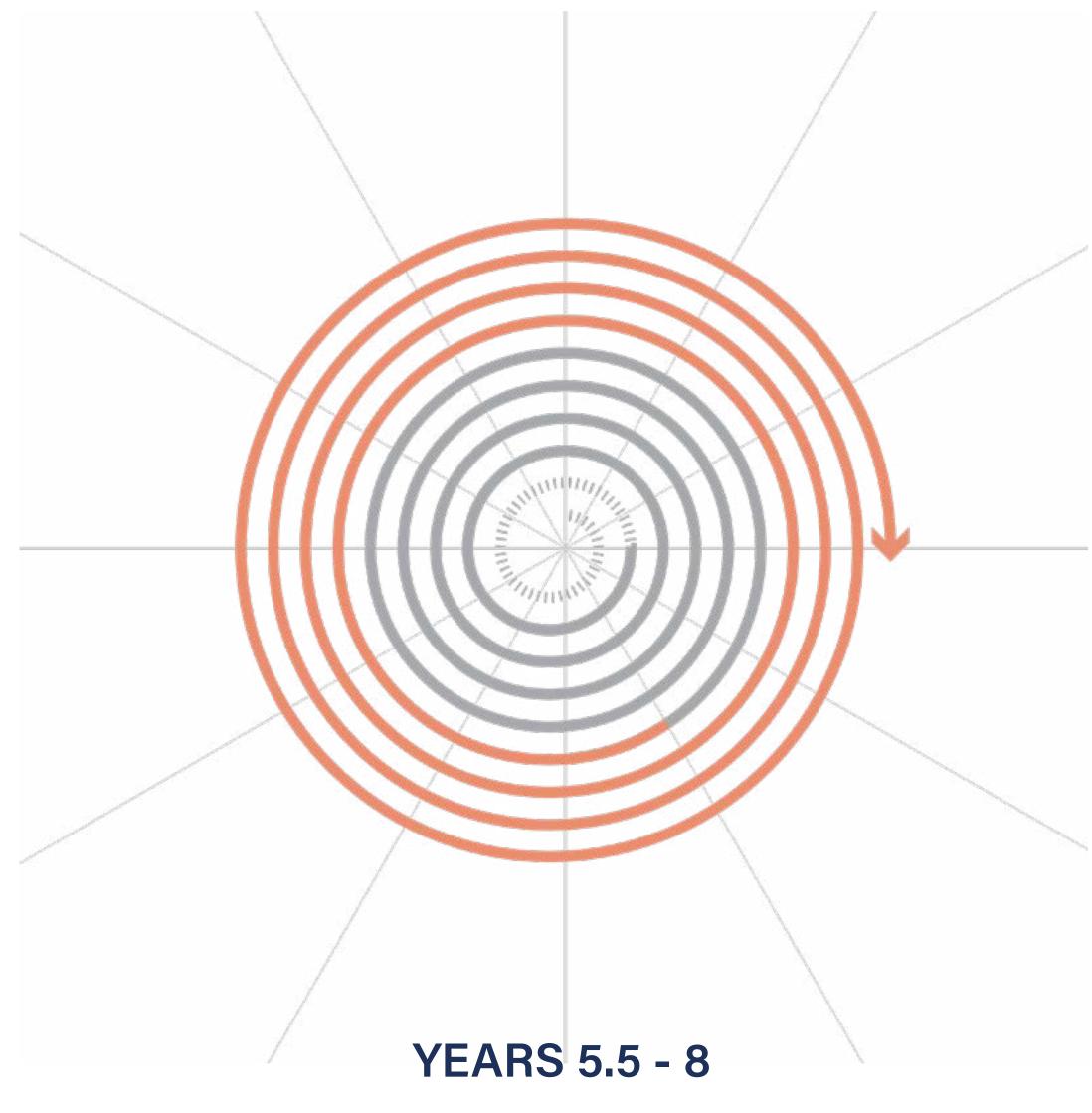
	267,469 SF
102,139	SF
57,982 SF	
0 SF	
0 SF	
115,229	9 SF
	486,636 SF
288,25	3 SF

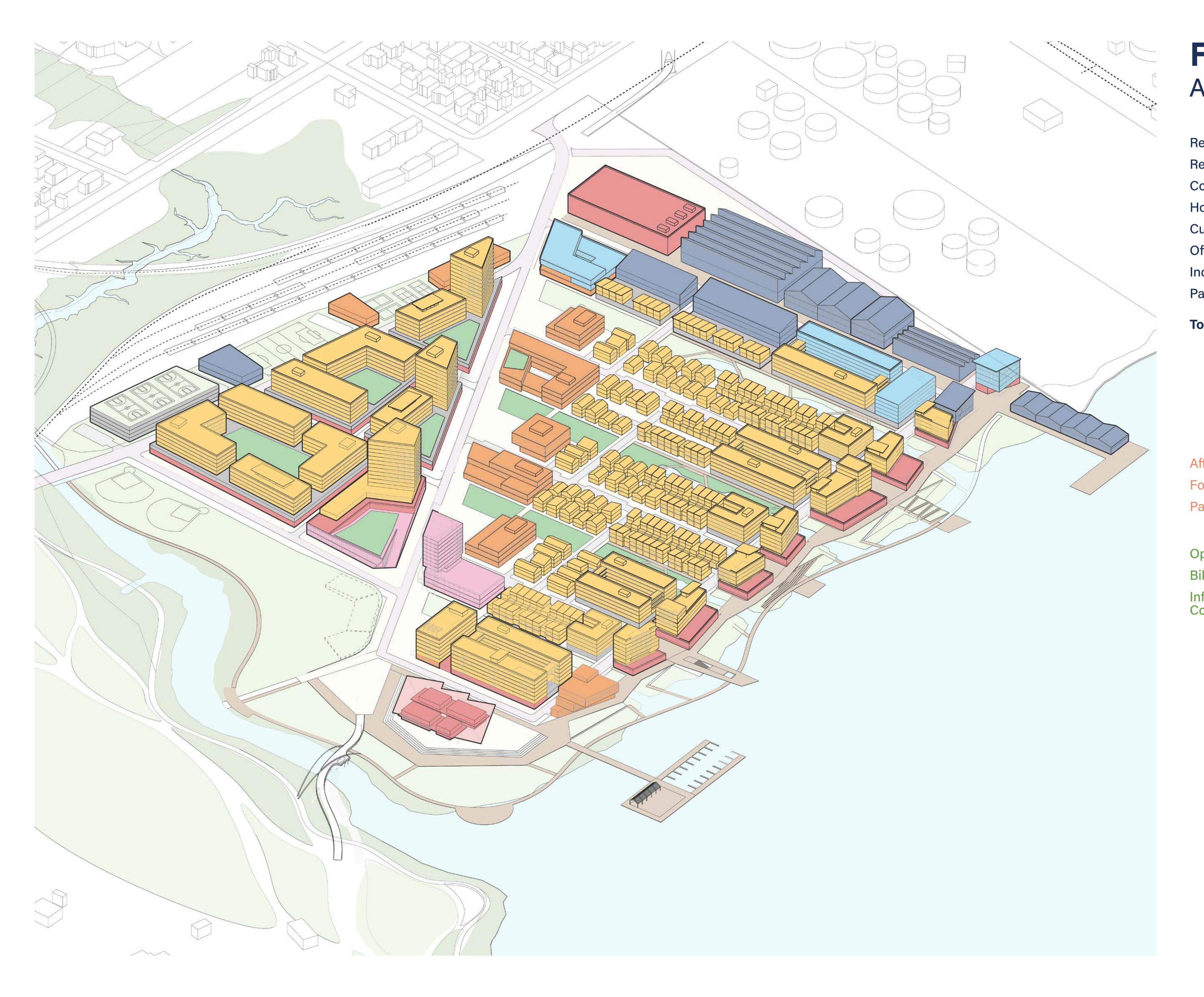
1,131,672 SF

\$295,691,502	Unlevered IRR	12.20%
\$377,700,721	Levered IRR	19.16%
65%		

31 Units 20%	154 Total
64 Units	
2.85	

237,580 SF	5.4 ACRE
6,556 FT	
\$4,742,540	





FINAL VISION 2032 + A new neighborhood

Residential	2,242,306 SF
Retail	349,678 SF
Community	368,687 SF
Hotel	122,374 SF
Cultural	94,626 SF
Office Flex	115,229 SF
Industrial	506,603 SF
Parking	785,034 SF
Total	4,584,537 SF

Total

Affordable Units	550 Units 25%	2,000+ Total
For Sale Units	140+ Units	
Parking Ratio	1.25	
Open Space	1,432,609 SF	
Bike Lanes	27,994 FT	
Infrastructure Cost	\$38,290,464	
/	YEARS 9+	





PUBLIC SECTOR

CARTA City of North Charleston Trident Techincal College Charleston County School District MUSC (Medical University of South Carolina) Charleston County Public Library **BCD** Council of Governments

COMMUNITY

Community Members & Residents Metanoia Gullah Geechee Cultural Heritage Corridor The Sustainability Institute Fresh Future Farm North Charleston Arts Festival Youth Endowment for the Arts

IMPLEMENTATION STRATEGY

FRESH FUTURE FARM/

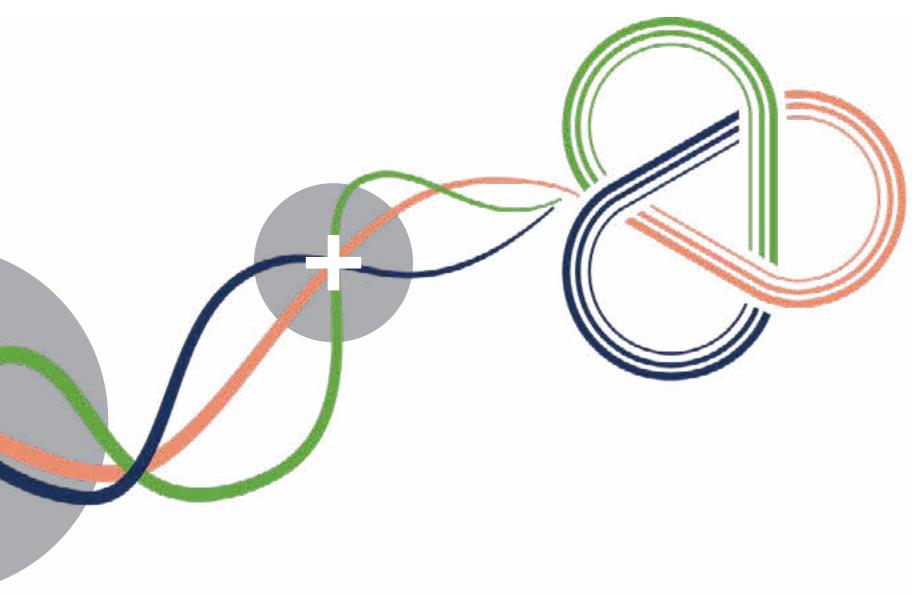
NEW RESTAURANTS

TIF DISTRICT City Center TIF District

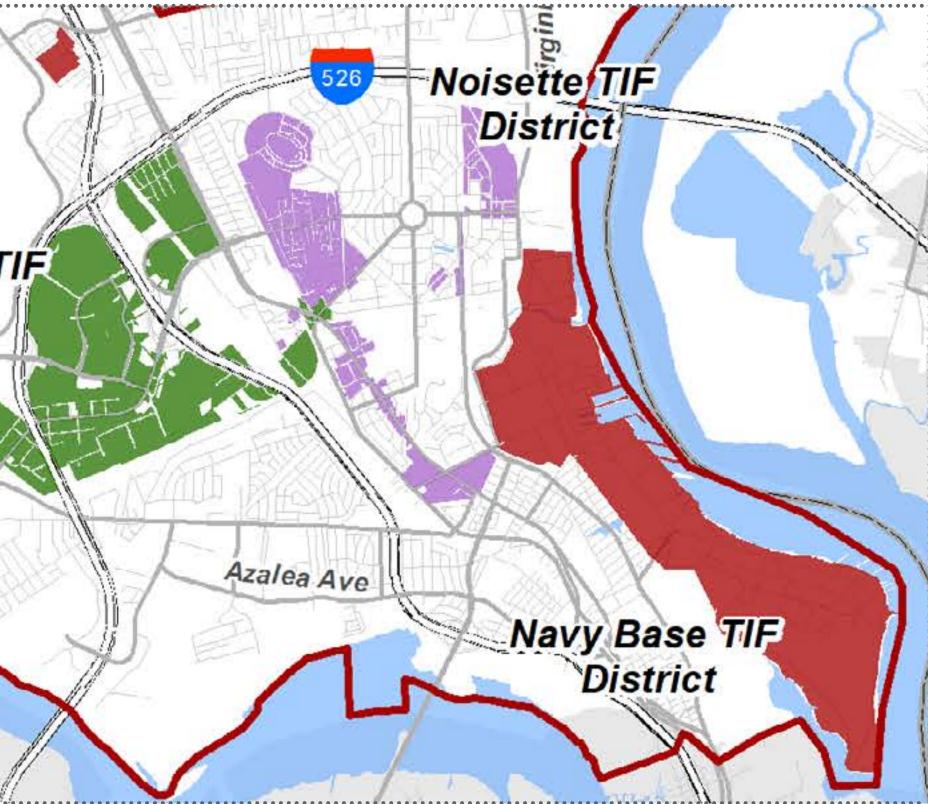
from Prime North Charleston

PRIVATE SECTOR

South Carolina Small Business Development Center Local Restaurants, Breweries, & Businesses North Charleston Chamber of Commerce South Carolina Chamber of Commerce Anchor Employers (Boeing, Mercedes Benz, Joint Base Charleston, SAIC)



Tax Increment Financing to fund public and infrastructure improvements







KARLESTON

COMMUNITY

HOUSING UNITS

33% AFFORDABLE UNITS

NEW HOMEOWNERS







RESILIENCE

ACRES OF OPEN SPACE

MILES OF BIKE LANES

RENEWABLE ENERGY





KNDT CHARLESTON

