



CLEARWATER
BRIGHT AND BEAUTIFUL • BAY TO BEACH



Kimley»Horn



CLEARWATER BEACH MARINA DOCK REPLACEMENT CONCEPTUAL DESIGN

April 4, 2022

Basis of Concept

PROJECT GOALS

1. The marina replacement should optimize marina slip mix and configuration for modern vessels, and maximize City owned submerged lands while maintaining existing slip count and balance between recreational and commercial (maintain 50 commercial slips).
2. The marina utilities (water, sewer, electrical, fuel) are outdated and should be replaced with new code-compliant utilities serving the needs of both the commercial vessels and modern recreational vessels.
3. Provide upland storage and ticket sales opportunities to address the removal of these structures from the docks.
4. Reduce congestion along Coronado Drive by improving the experience along the north seawall to activate “Marina Walk” – a connection to Beach Walk that extends the full length of the marina’s northern shoreline. Upland impacts should remain below the threshold for a stormwater permit.
5. Phase marine construction to maintain commercial operations during construction with limited vessel relocations and interruptions to utility service.
6. Pinellas County was recently awarded a PSTA grant for a water taxi dock. The new layout should accommodate two dedicated boat slips for the water taxi.

SUSTAINABILITY

The proposed marina redevelopment consists primarily of floating docks which are adaptable to sea level rise, allowing the docks to rise with the tides. The height of the guide piling supporting the docks will be designed to accommodate future increases in water levels. The dock floats will incorporate a percentage of recycled foam materials.

A future seawall replacement is planned for 5 to 10 years in the future. A seawall replacement typically involves installing a new wall directly in front of the existing, and this new wall will need to be installed at a higher elevation to support the City of Clearwater’s seawall ordinance which requires a minimum seawall height of +5.12 feet NAVD. The length of the gangways will be sized to meet ADA guidelines for the future seawall height, and the design of the fixed gangway platforms that provide access to the floating docks will be designed such that they can be raised at the time of the future seawall replacement without having to be demolished and reconstructed.

The marina and promenade lighting will incorporate solar lighting, and a minimum of four parking spaces will be dedicated for electric vehicle parking. Further use of sustainable materials such as pervious pavement, recycled materials, and additional photo voltaic elements will be explored in the design phase.

PROJECT ELEMENTS

The primary project elements include demolition of the existing marina structures; installation of new docks, fuel building, and marina utilities; maintenance dredging to remove “high spots” in the marina basin, repairs to the existing seawall including cap replacement; and upland improvements along the water’s edge to create “Marina Walk”.

Upland improvements predominantly consist of a new promenade along the northern shoreline of the marina with lighting, shade, art, and entertainment opportunities to draw pedestrians to the east from Beach Walk. The promenade connects to Beach Walk on the west end and the Clearwater Memorial Causeway trail to the east, completing a loop around the marina property.

Buildings

Building-related work is limited to replacement of the fuel dock building, addition of ticket kiosks, and minor renovations to storage rooms located at the SE corner of the Marina Building. The buildings such as Crabby’s, the Bait House, and the restrooms associated with the Bait House are not included in this scope of work.

Utilities

The existing site utilities include water, sewer, electrical, gas, and communications lines. An existing lift station and three underground fuel storage tanks, located at the southeast corner of the site, are to remain. The dock utilities will include shore power pedestals, lighting, potable water, sewage pump-out, fire protection, and fuel. New Duke Energy transformers and connections to the water main on site are proposed to support the marina redevelopment. No modifications are proposed to the existing gas line, lift station, or the utility transformers and water meters serving Crabby’s or the Marina Building.

Stormwater

The existing site drainage sheet flows to inlets around the parking lot and is directly discharged to through the seawall to the south. A net decrease in impervious area is proposed to qualify for stormwater exemptions through the Southwest Florida Water Management District and the City of Clearwater. It is assumed that SWFWMD will allow any new impervious area to be mitigated for on site.

Parking

The existing parking lot does not meet the current City of Clearwater landscaping standards which state that no more than 20 parking space in a row without a landscape island and the minimum requirement of 10% vehicular use area must be landscaping. The impacted portions of the parking lot will be brought up to the City’s current landscaping standards. The existing marina parking lot has 357 code compliant vehicular parking spaces. The proposed concept plan reduces the total quantity to vehicular spaces to 316. The reduction in parking spaces is due to the need for additional landscaping to meet code and improved pedestrian and vehicular site circulation and functionality.

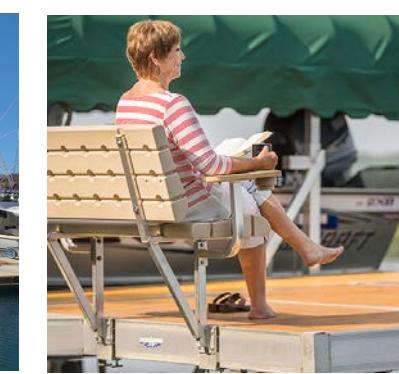
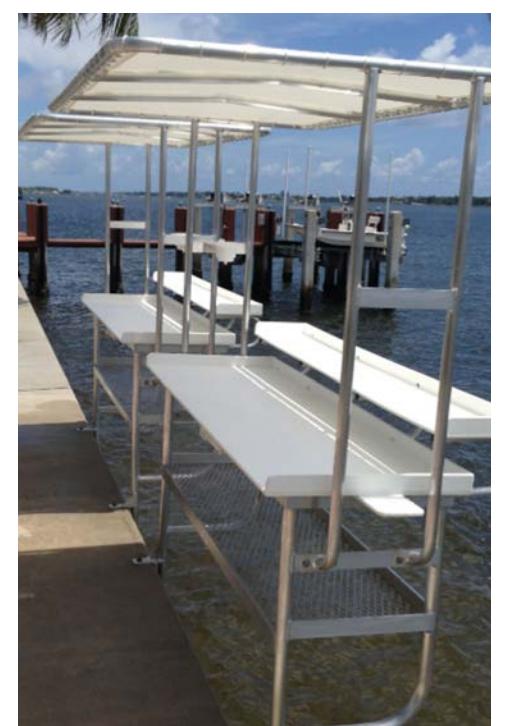
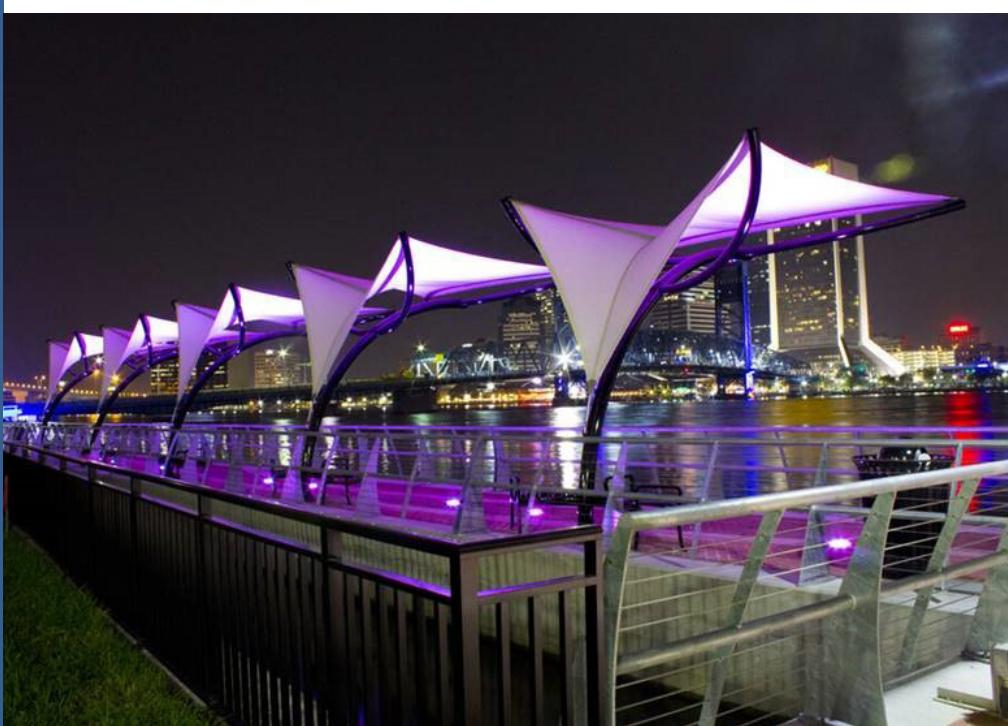
PRECEDENT IMAGES



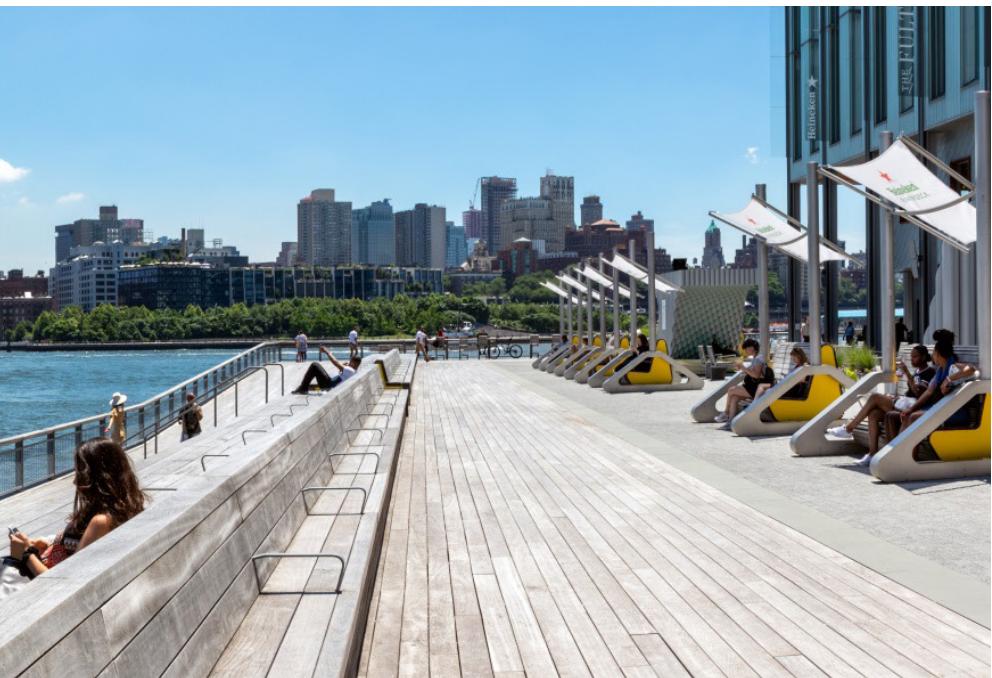
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Precedent Images: Marinas



Precedent Images: Waterfront Promenades



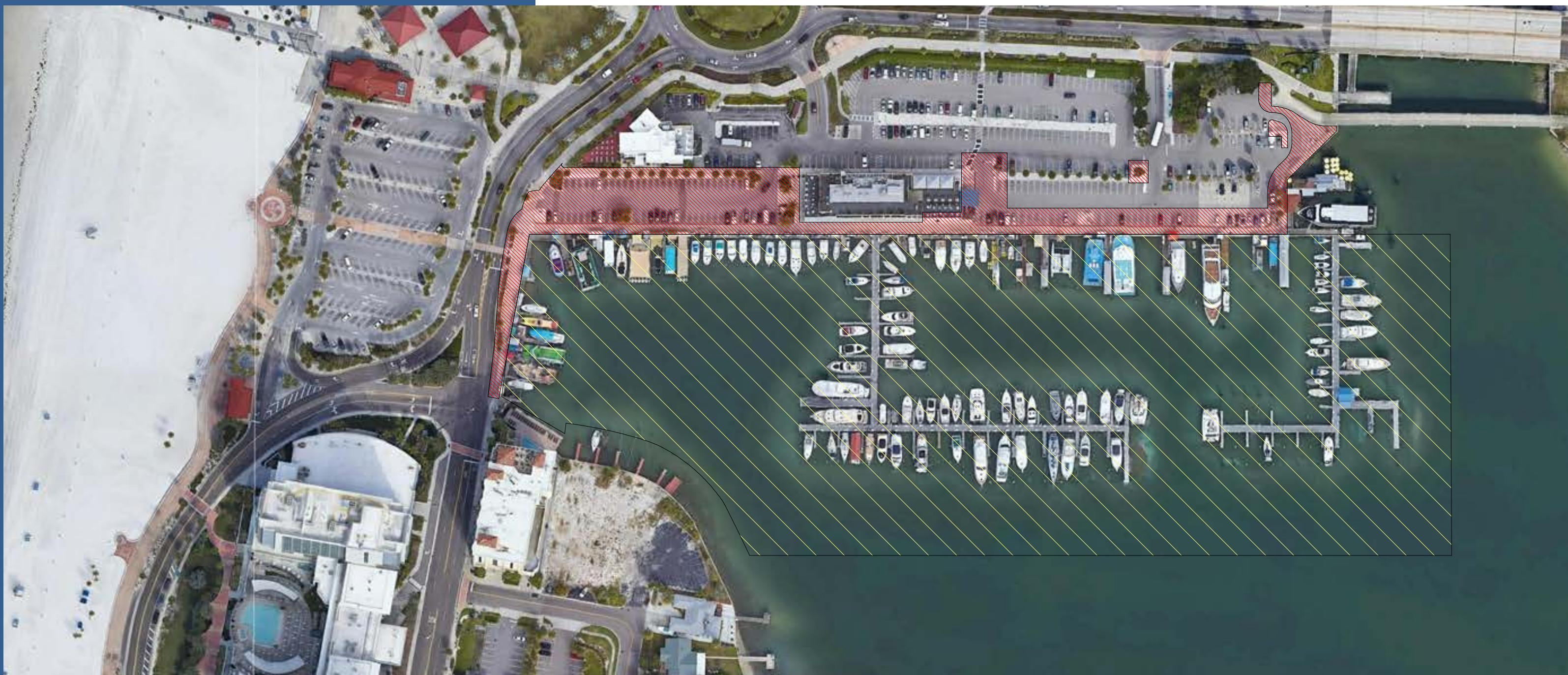
CONCEPTUAL DESIGN



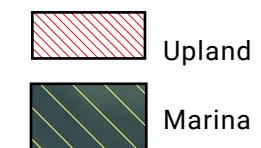
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Existing Project Area



PROJECT AREA



EXISTING SLIP MIX

Slip Size	COMMERCIAL*		RECREATIONAL		TOTAL	
	(#)	(%)	(#)	(%)	(#)	(%)
<40	21	36%	29	27%	50	30%
40	9	15%	0	0%	9	5%
50	10	17%	58	55%	68	41%
60	8	14%	7	7%	15	9%
70+	11	19%	12	11%	23	14%
Total	59	100%	106	100%	165	100%

*Commercial count includes 6 fuel slips and 1 ferry slip

EXISTING UPLAND

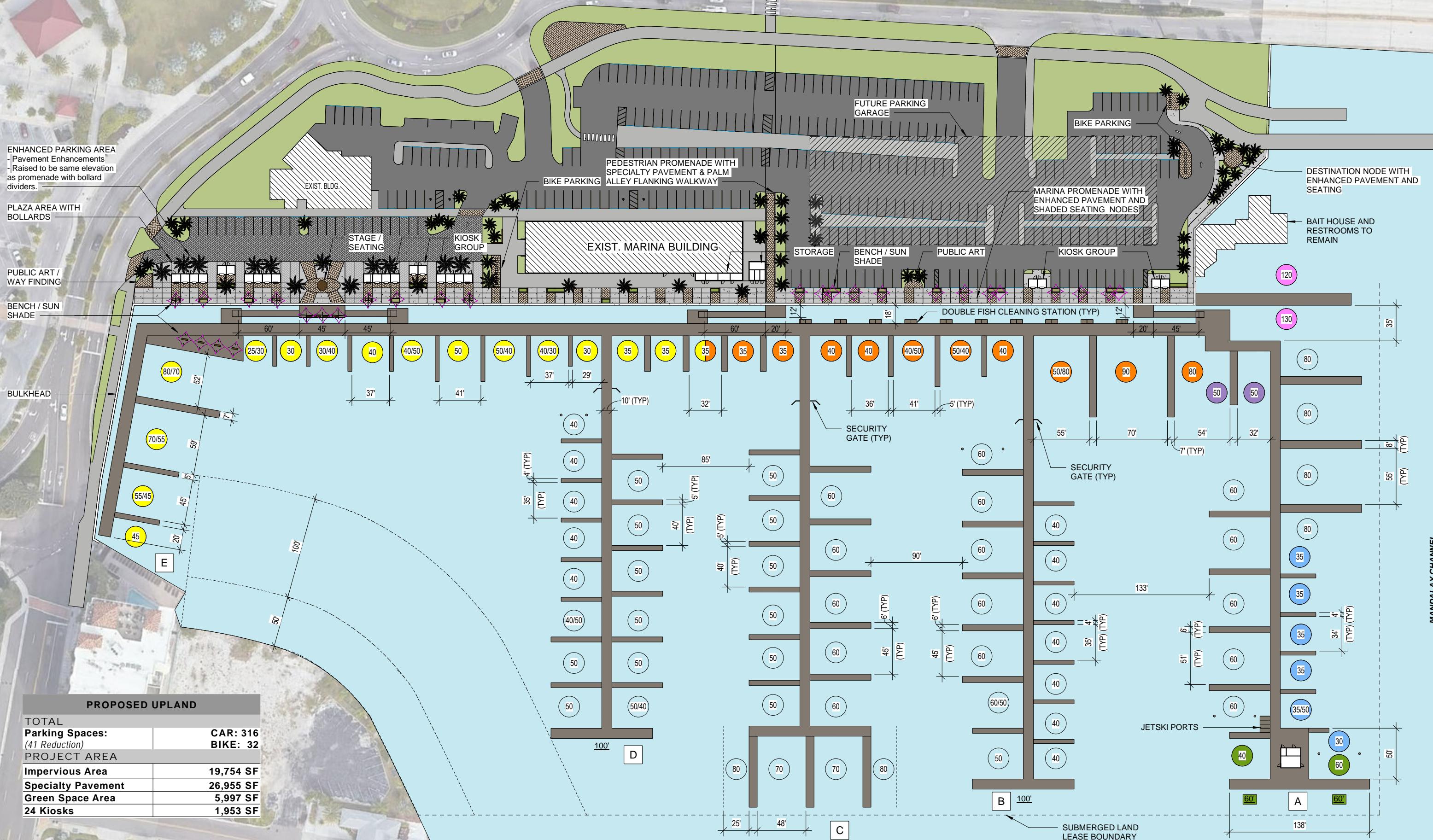
TOTAL	
Parking Spaces - Legal	357
Parking Spaces - Non-Compliant*	7
PROJECT AREA	
Impervious Area	53,490 SF
Green Space Area	1,169 SF

*Non-Compliant spaces based on either their length, condition next to an existing drive aisle, and/or allowable number of consecutive spaces without a divider island.



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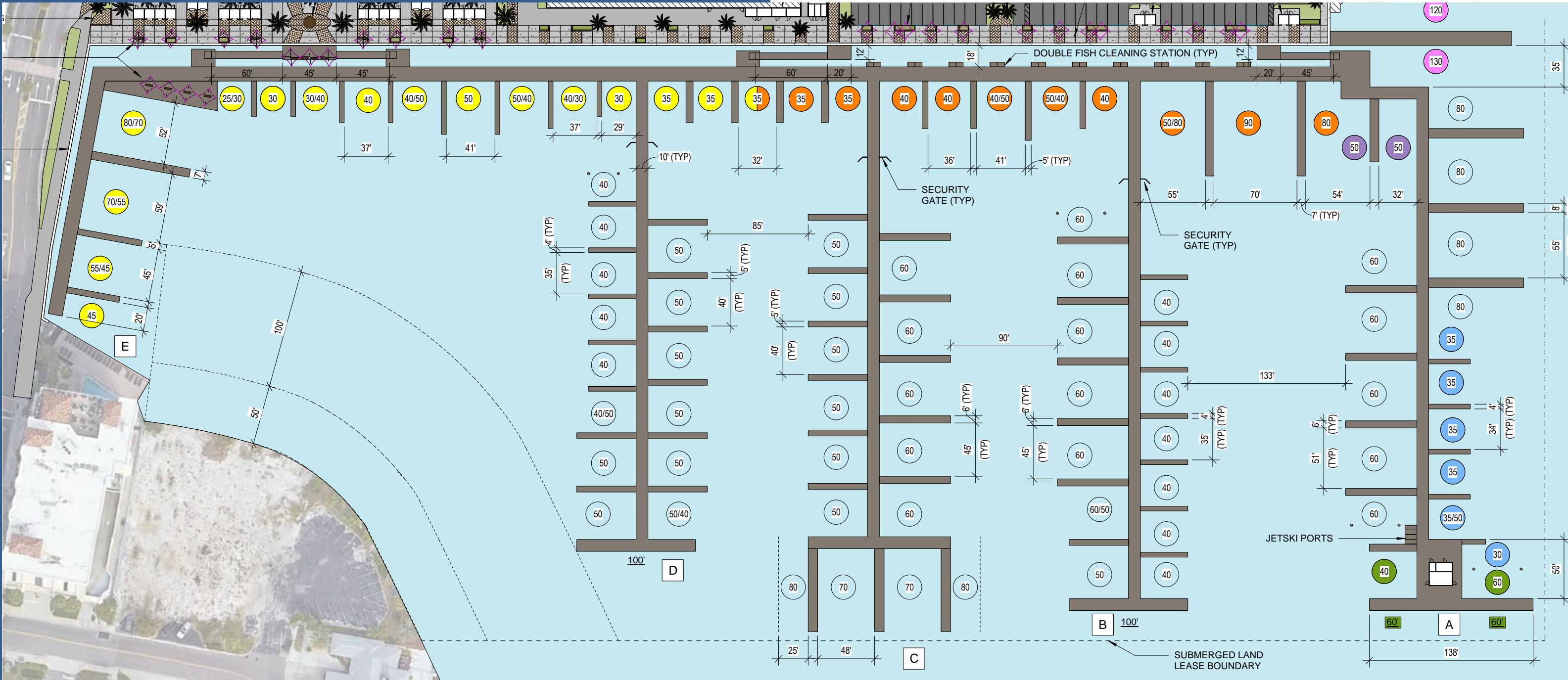


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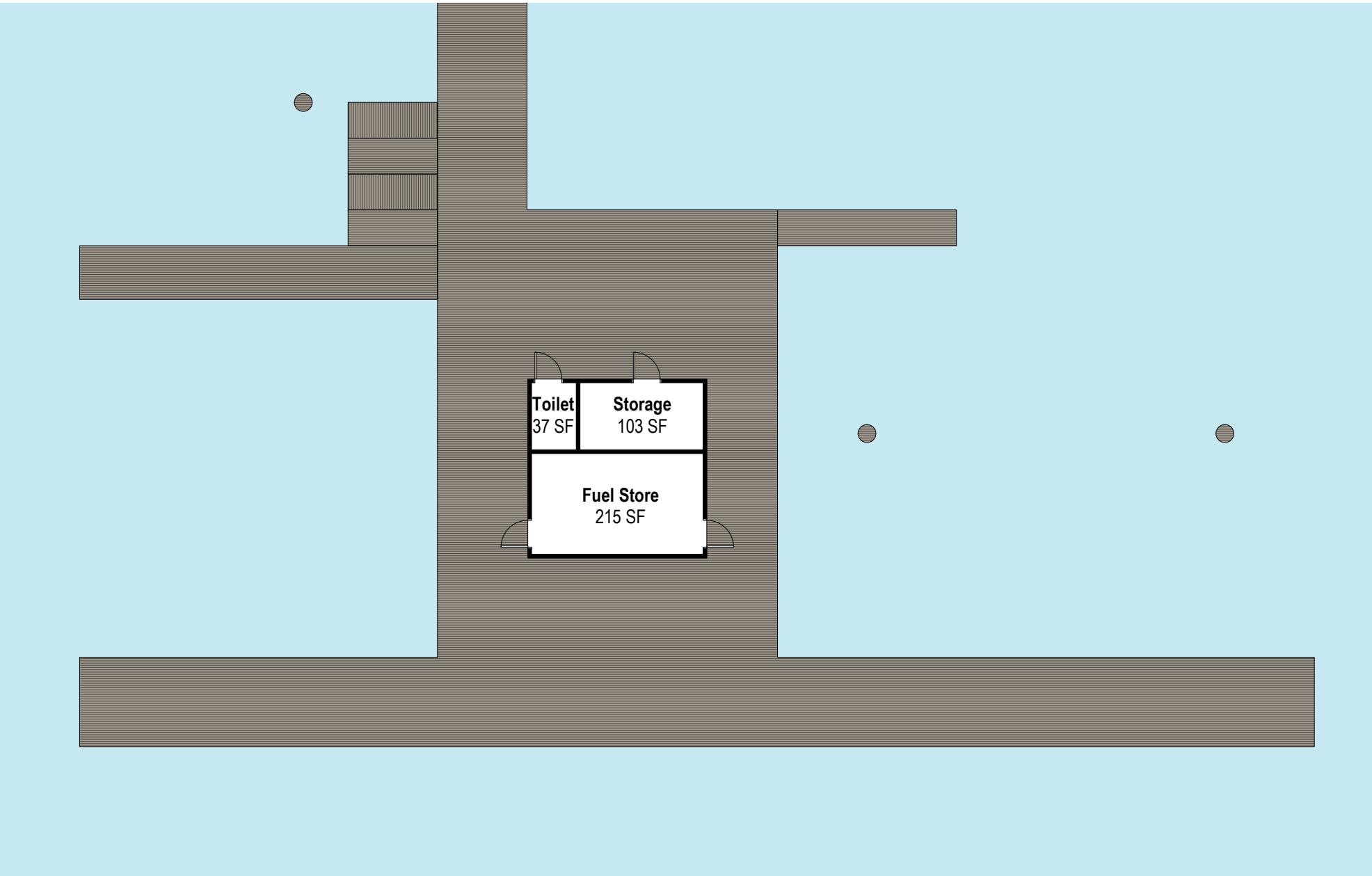


Clearwater Beach Marina Conceptual Design

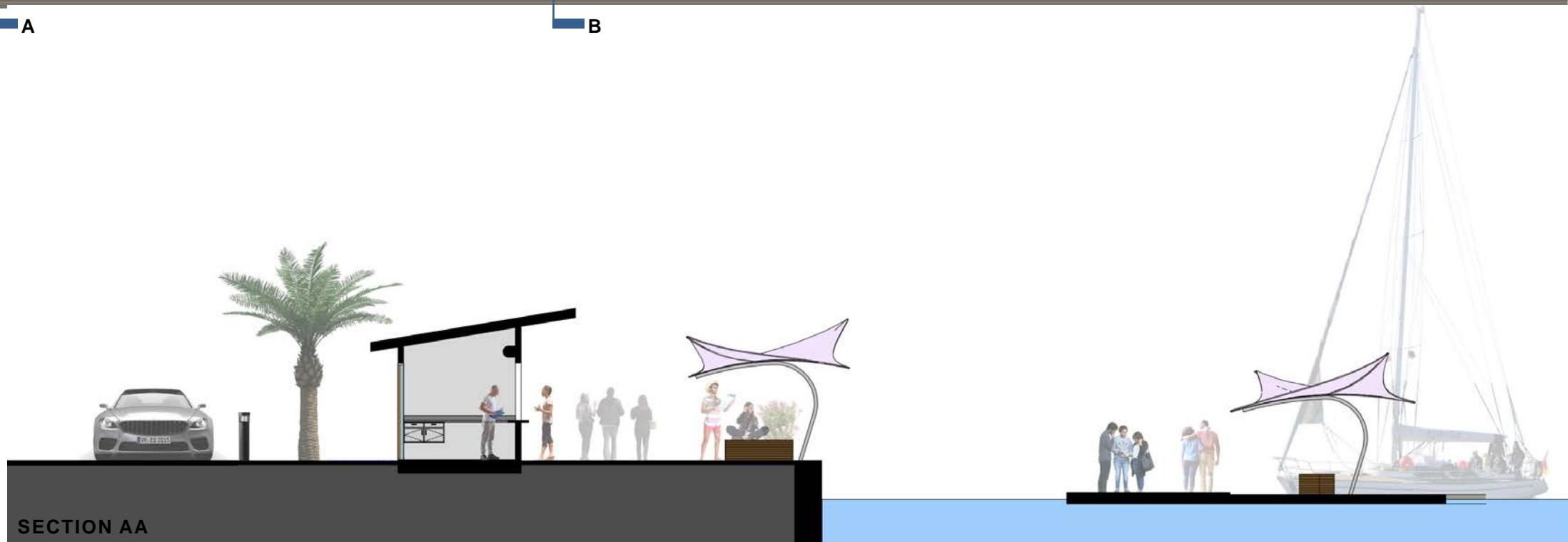
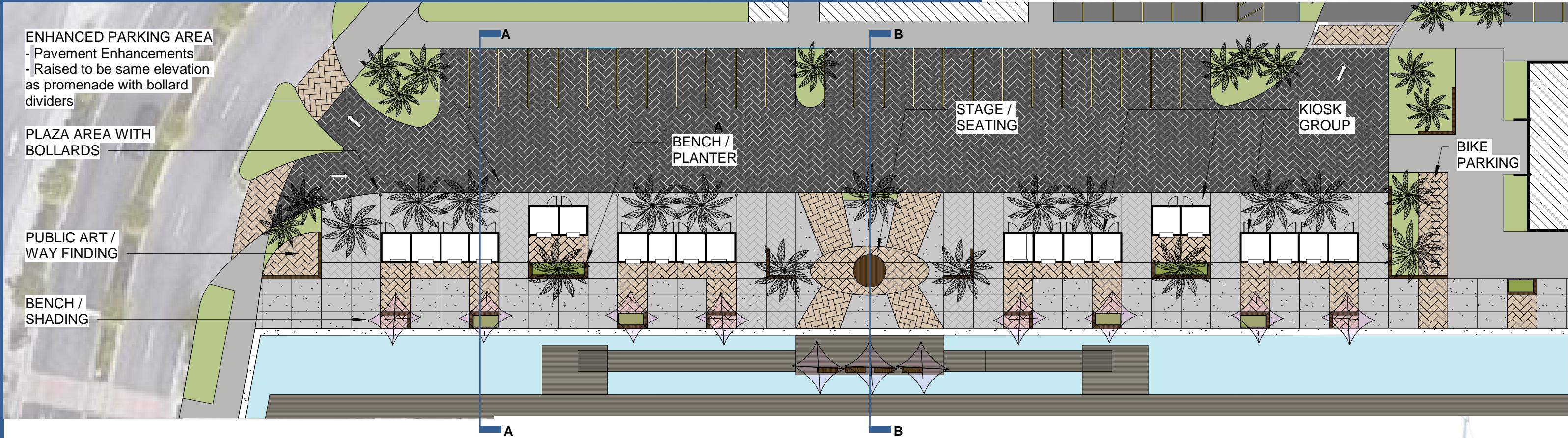
Floating Docks Conceptual Design



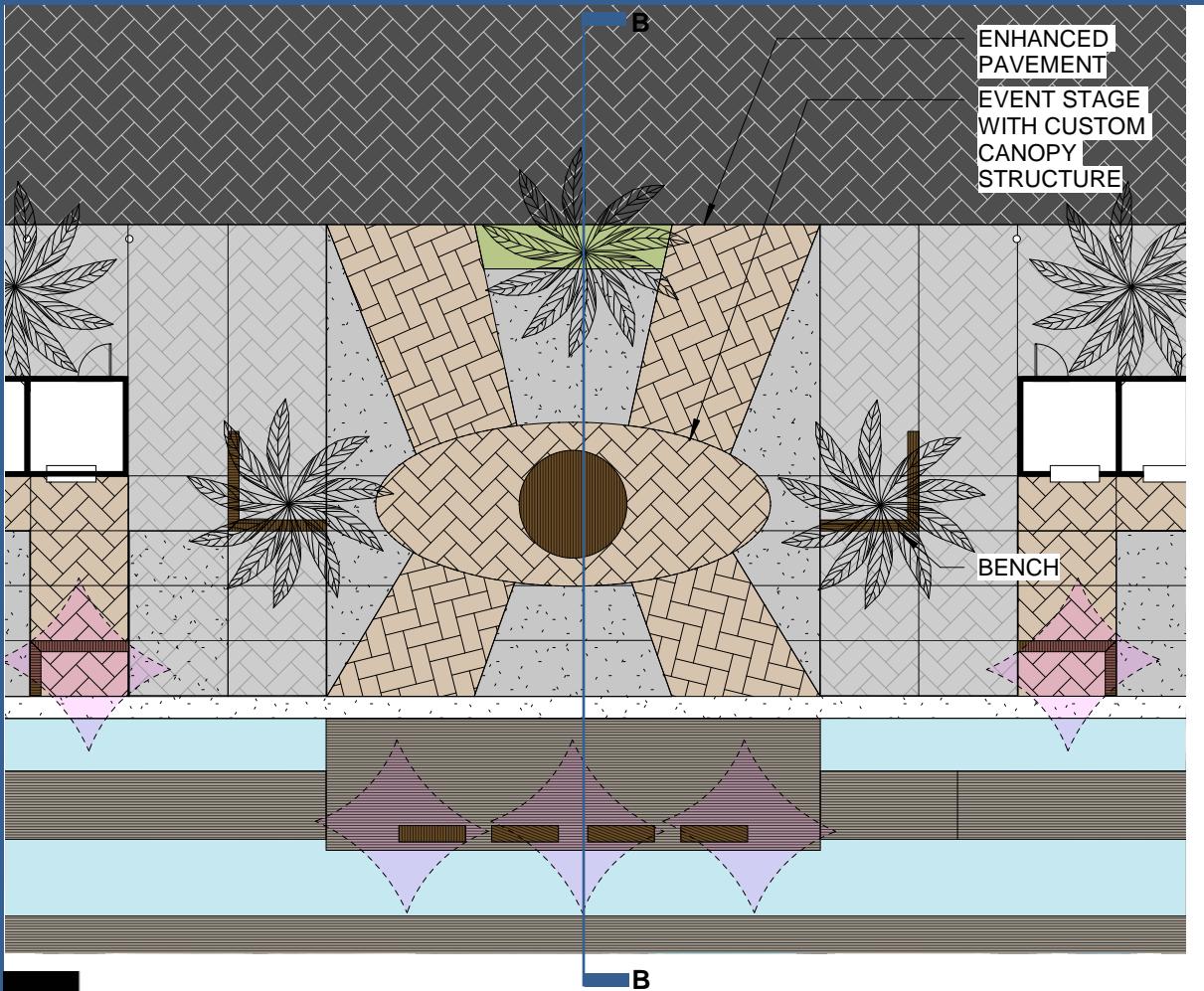
Fuel Building Conceptual Design



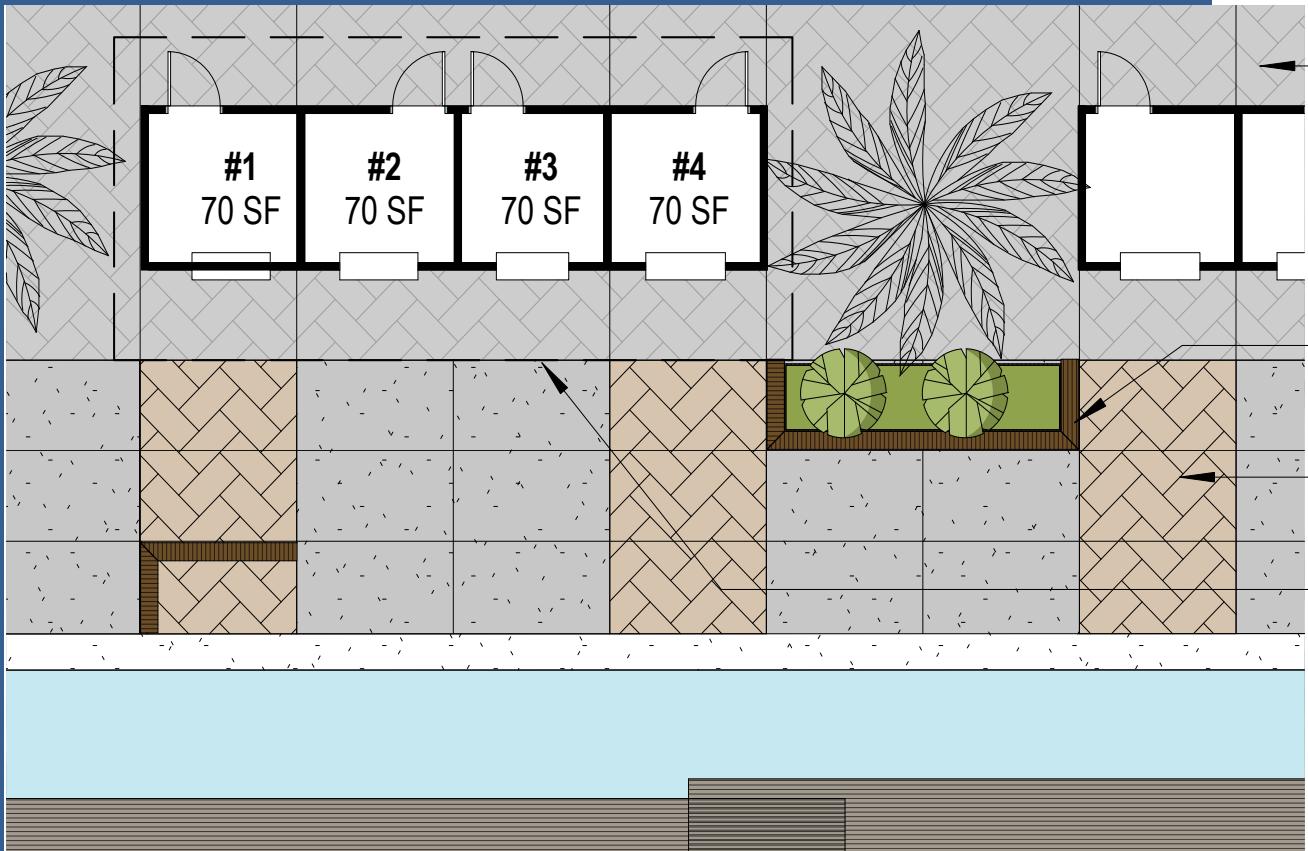
West Marina Promenade Conceptual Design



Pop-Up Stage Conceptual Design



Kiosks Conceptual Design



ENHANCED
PAVEMENT

BENCH /
PLANTER

ENHANCED
PAVEMENT

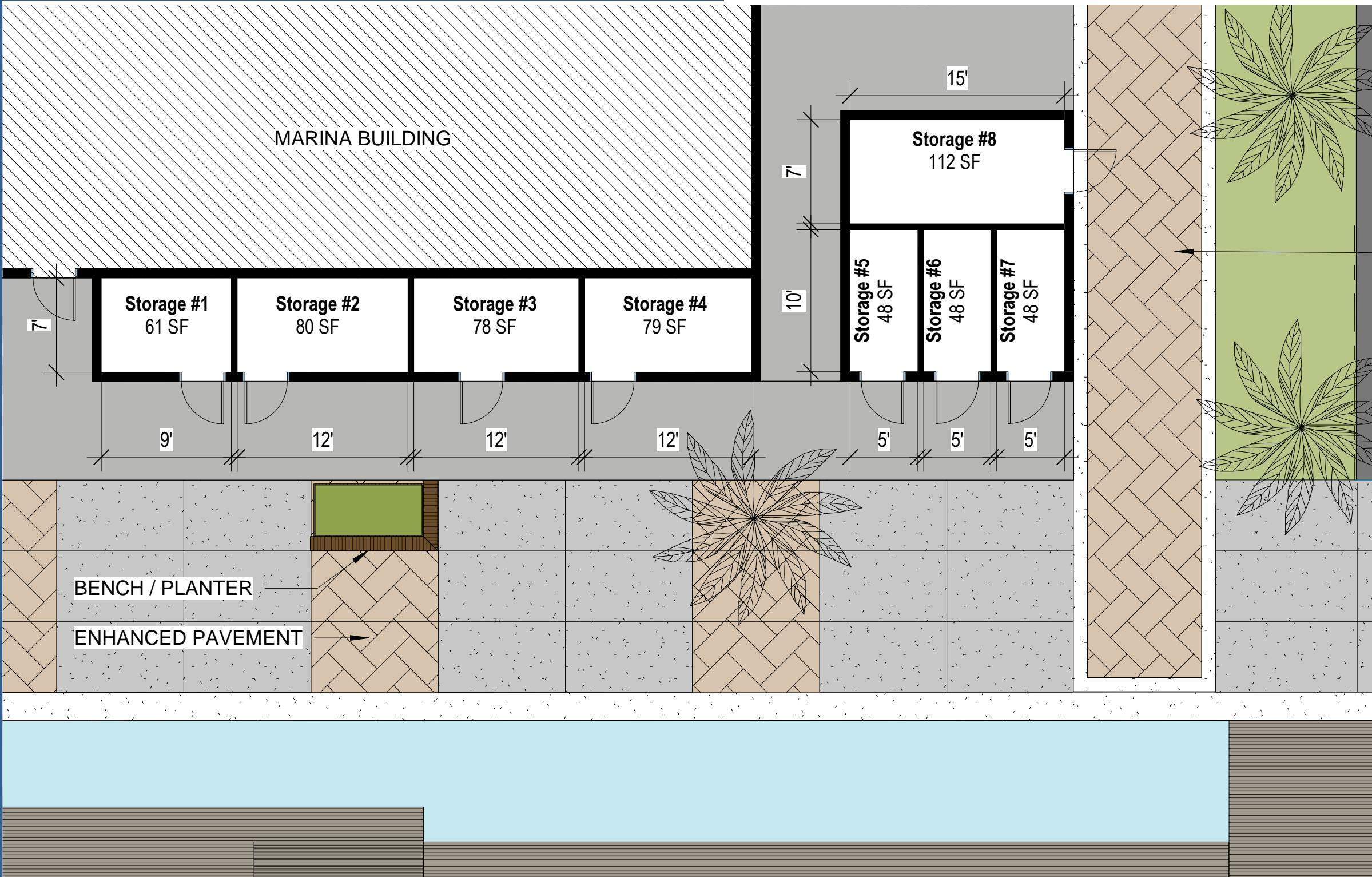
ROOF
OVERHANG



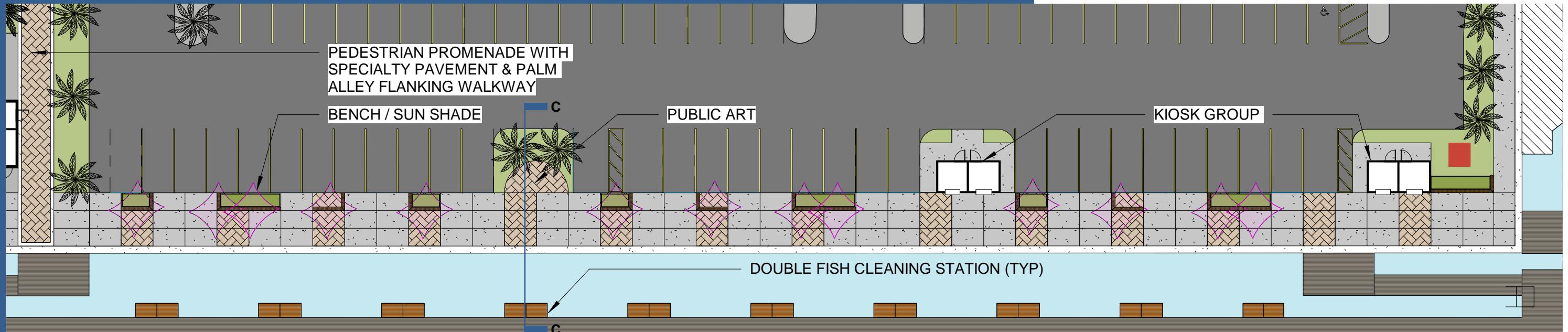
Marina Building Promenade Conceptual Design



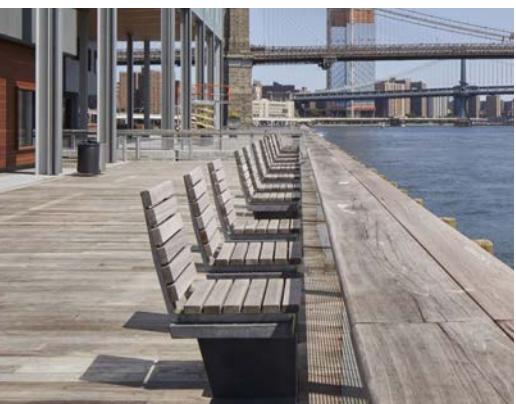
Storage Conceptual Design



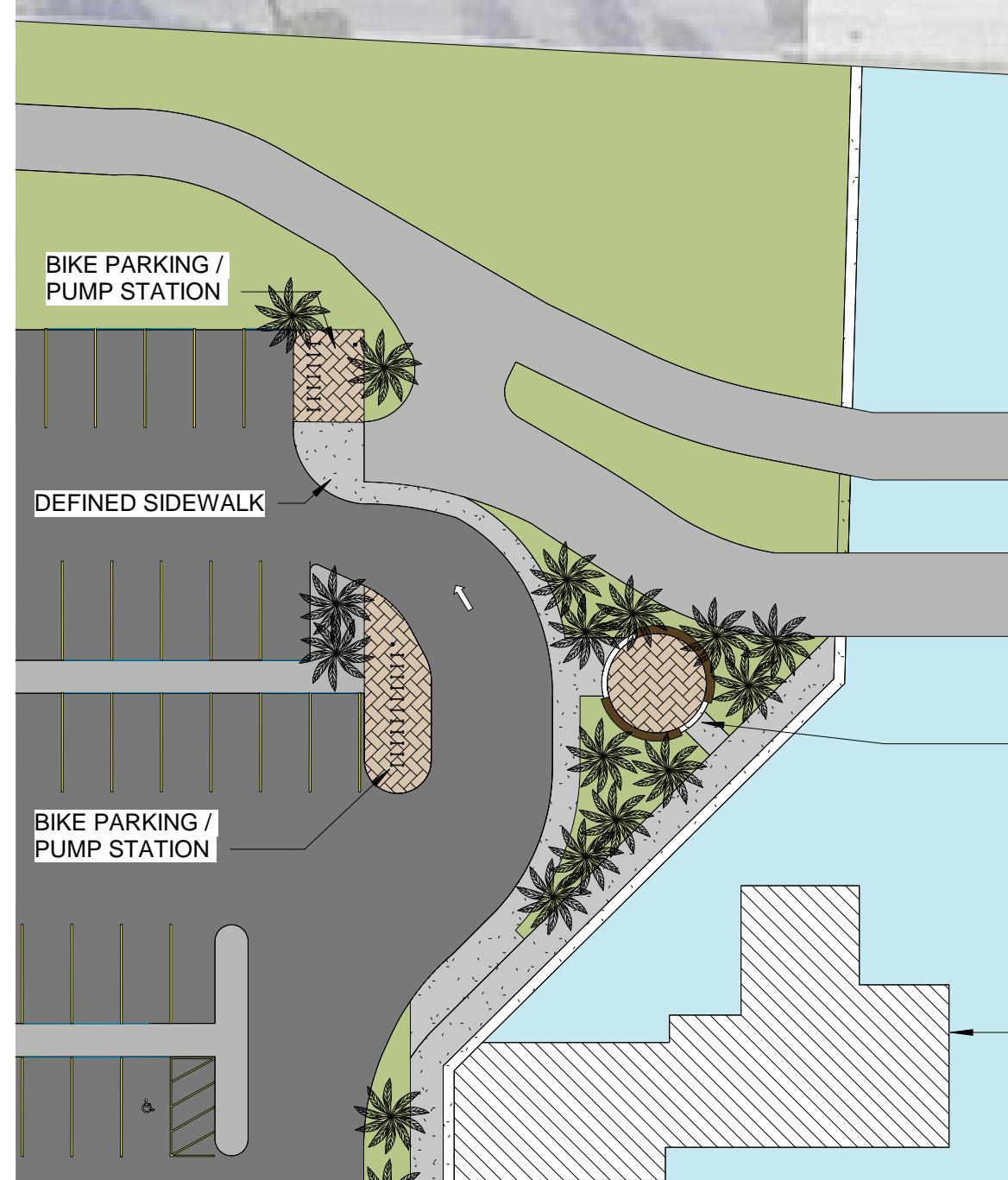
East Marina Promenade Conceptual Design



Alternative 'A'



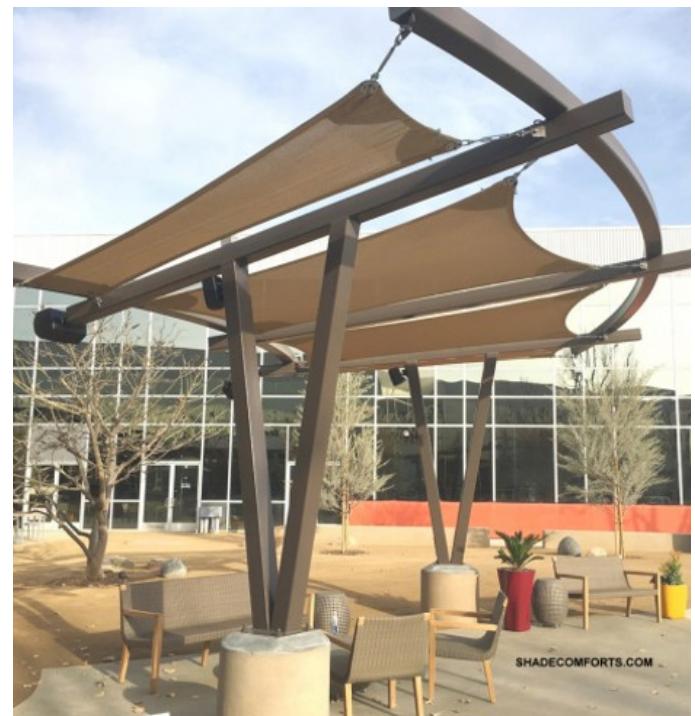
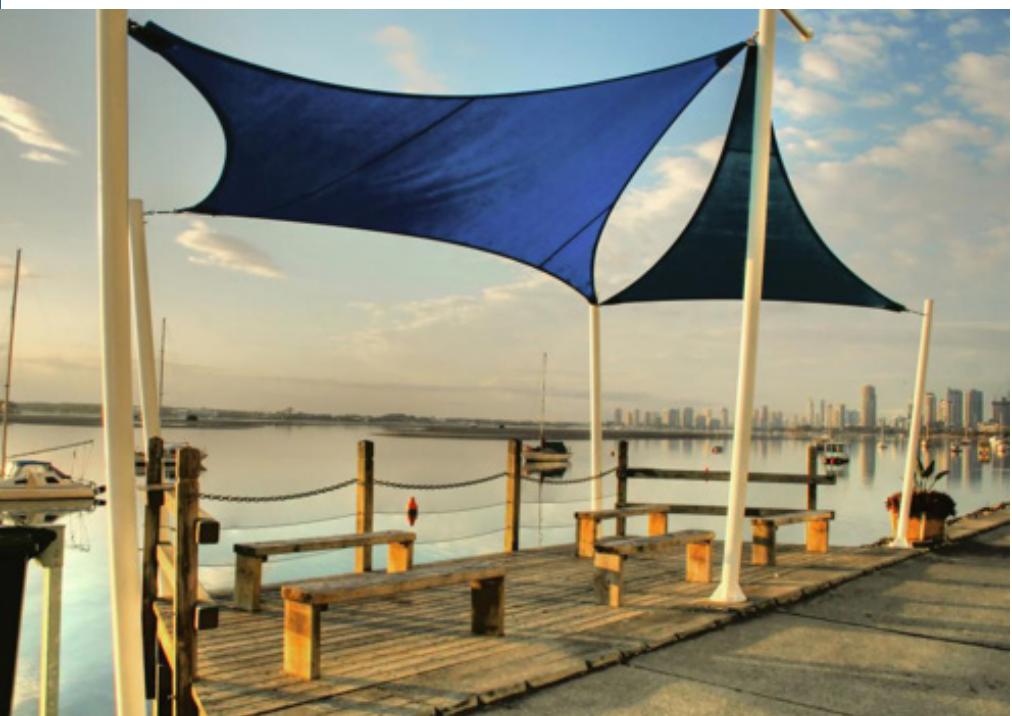
Destination Node Conceptual Design



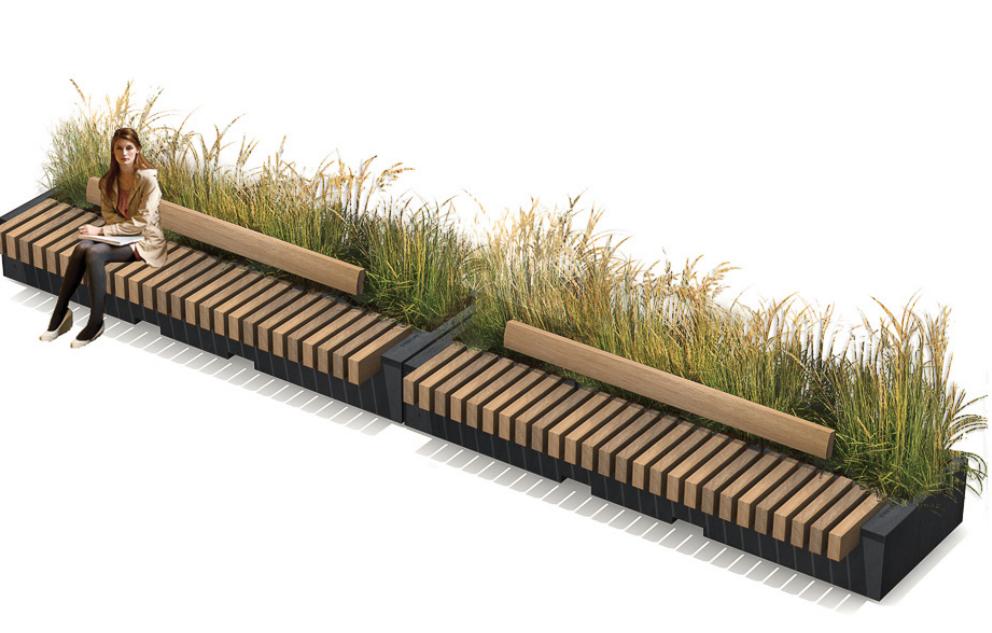
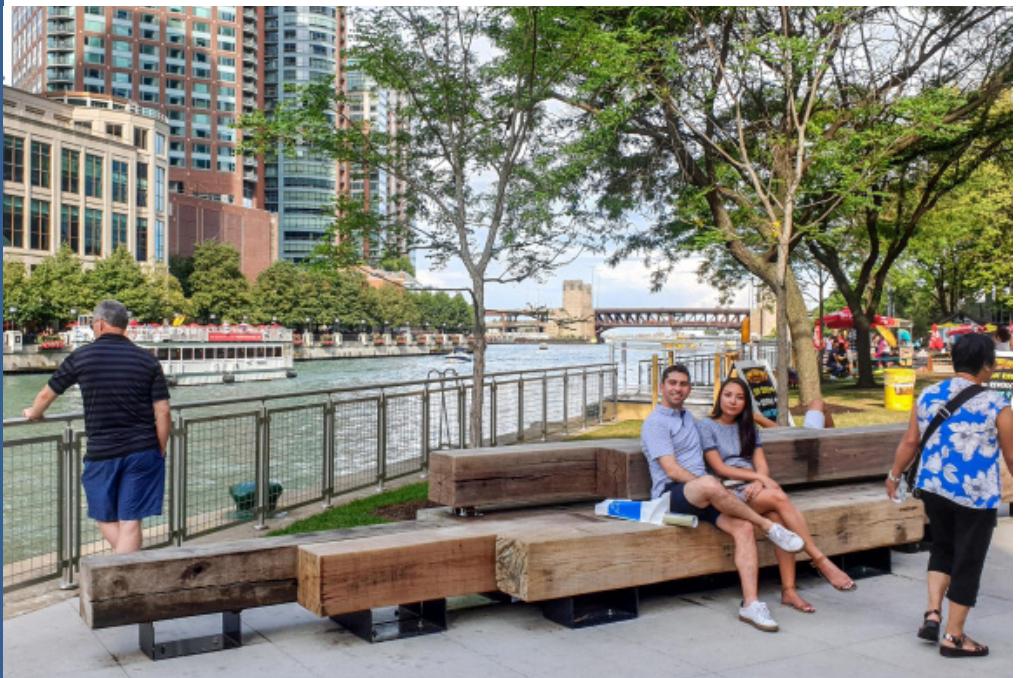
DESTINATION NODE:
• ENHANCED PAVEMENT
• SEATING
• PUBLIC ART

BAIT HOUSE AND
RESTROOMS TO
REMAIN (NOT IN
CONTRACT)

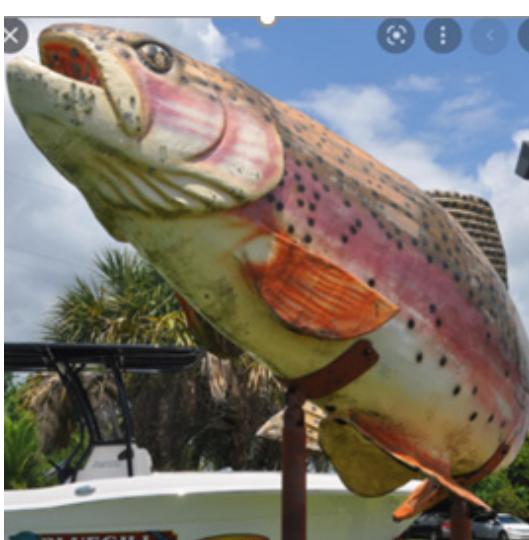
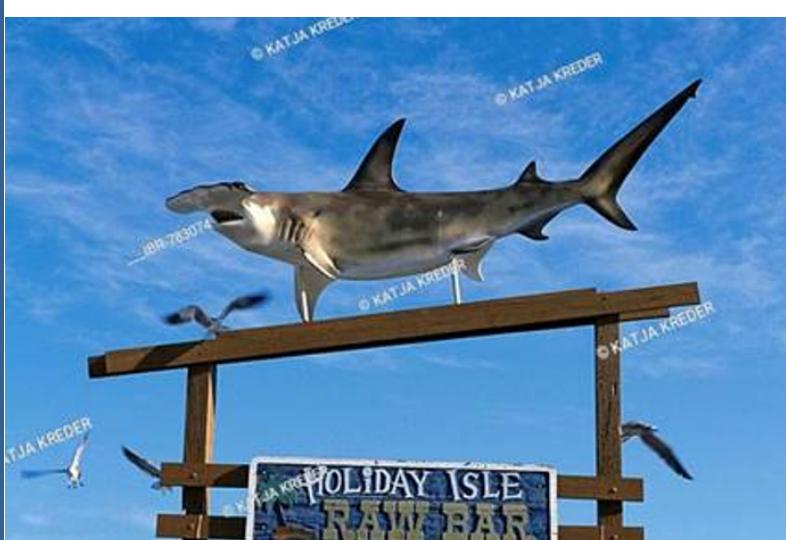
Placemaking: Shade Structures



Placemaking: Seating



Placemaking: Public Art



Wildlife Friendly Lighting

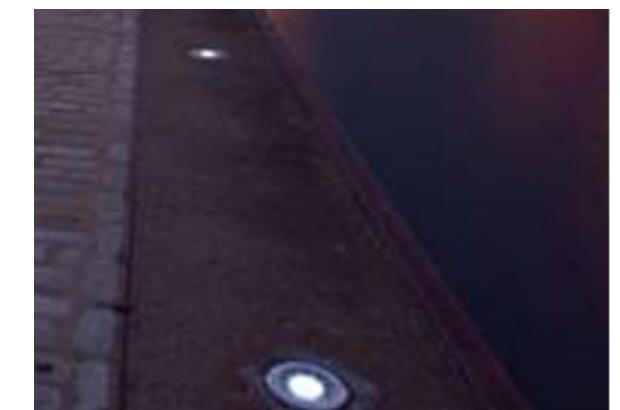


Bollard Lighting



Underwater Lighting

Linear Lighting



Recessed Lighting