



SR-A1A BASCULE BRIDGE REHABILITATION OVER HILLSBORO INLET

COMMUNITY AWARENESS MEETING

JANUARY 14, 2014





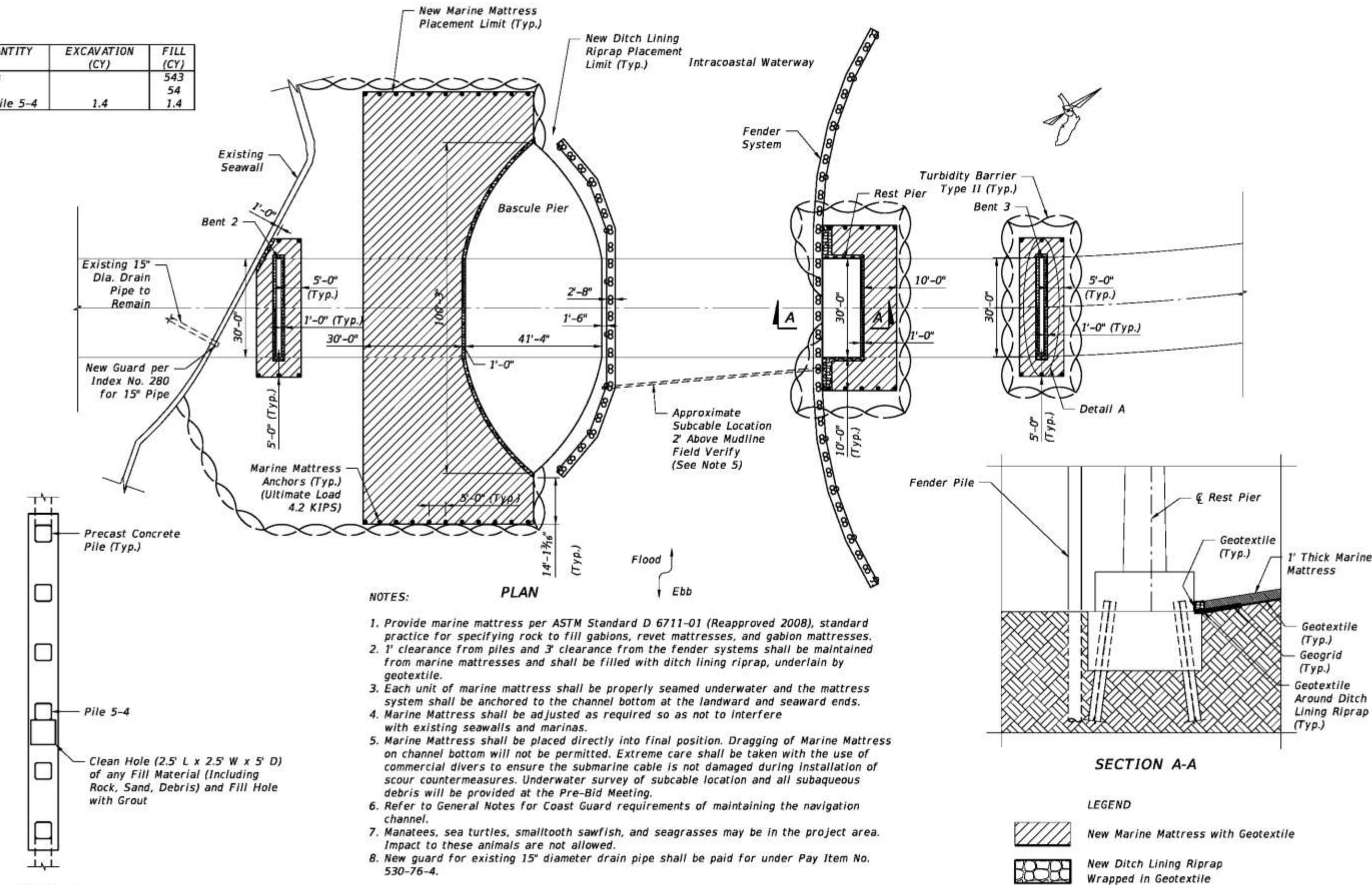
**SR-A1A Bascule Bridge
over Hillsboro Inlet**



Proposed Improvements

- Replace bascule span decking, steel railing and sidewalk on east side of bridge
- Replace east sidewalk and barrier wall on approaches with new sidewalk, traffic barrier at curb and pedestrian railing
- Refurbish reducer (gearbox)
- Paint structural steel
- Repair waterway fender system
- Scour countermeasures (excluding the navigation channel)
- Electrical upgrades including replacing navigation lights and lightning protection system
- Renovate control house by adding an additional floor and architectural features to house and roof
- Provide Barefoot Mailman monument on top of SW corner of bascule pier and City Identification signage on bascule pier
- Replace existing guardrail on N. Riverside Drive with concrete barrier wall and guardrail and end treatment
- Provide curb ramp and pedestrian crossing at N, Riverside Drive and Bay Drive
- Replace existing warning sign at NE approach

ESTIMATED QUANTITY	EXCAVATION (CY)	FILL (CY)
Marine Mattress		543
Rip Rap		54
Grout Hole at Pile 5-4	1.4	1.4



NOTES:

1. Provide marine mattress per ASTM Standard D 6711-01 (Reapproved 2008), standard practice for specifying rock to fill gabions, revet mattresses, and gabion mattresses.
2. 1' clearance from piles and 3' clearance from the fender systems shall be maintained from marine mattresses and shall be filled with ditch lining riprap, underlain by geotextile.
3. Each unit of marine mattress shall be properly seamed underwater and the mattress system shall be anchored to the channel bottom at the landward and seaward ends.
4. Marine Mattress shall be adjusted as required so as not to interfere with existing seawalls and marinas.
5. Marine Mattress shall be placed directly into final position. Dragging of Marine Mattress on channel bottom will not be permitted. Extreme care shall be taken with the use of commercial divers to ensure the submarine cable is not damaged during installation of scour countermeasures. Underwater survey of subcable location and all subaqueous debris will be provided at the Pre-Bid Meeting.
6. Refer to General Notes for Coast Guard requirements of maintaining the navigation channel.
7. Manatees, sea turtles, smalltooth sawfish, and seagrasses may be in the project area. Impact to these animals are not allowed.
8. New guard for existing 15" diameter drain pipe shall be paid for under Pay Item No. 530-76-4.

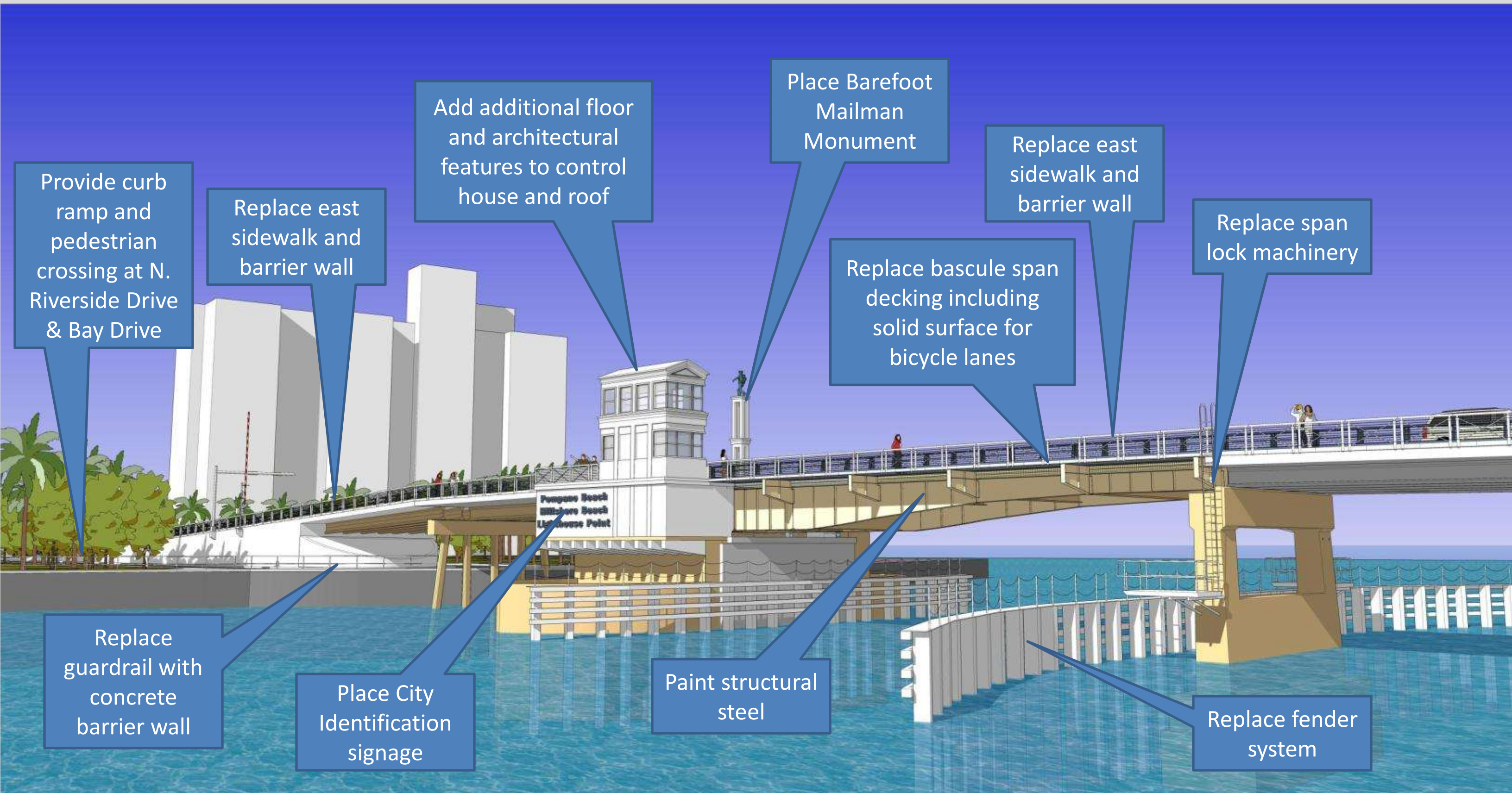
Bridge No. 860011

REVISIONS						DRAWN BY: JW 01-14 CHECKED BY: CD 01-14 DESIGNED BY: JL 01-14 CHECKED BY: CD 01-14	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE:		REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION					SCOUR COUNTERMEASURES (1 OF 2)		SP-1
							ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME:		SHEET NO.
							A1A	BROWARD	425935-1-52-01	SR-A1A OVER HILLSBORO INLET		B1-106
						HARDESTY & HANOVER, LLC 1000 SAWGRASS CORPORATE PARKWAY, SUITE 544 SUNRISE, FLORIDA 33525 John Low, P.E. #72784 Certificate of Authorization #29741						

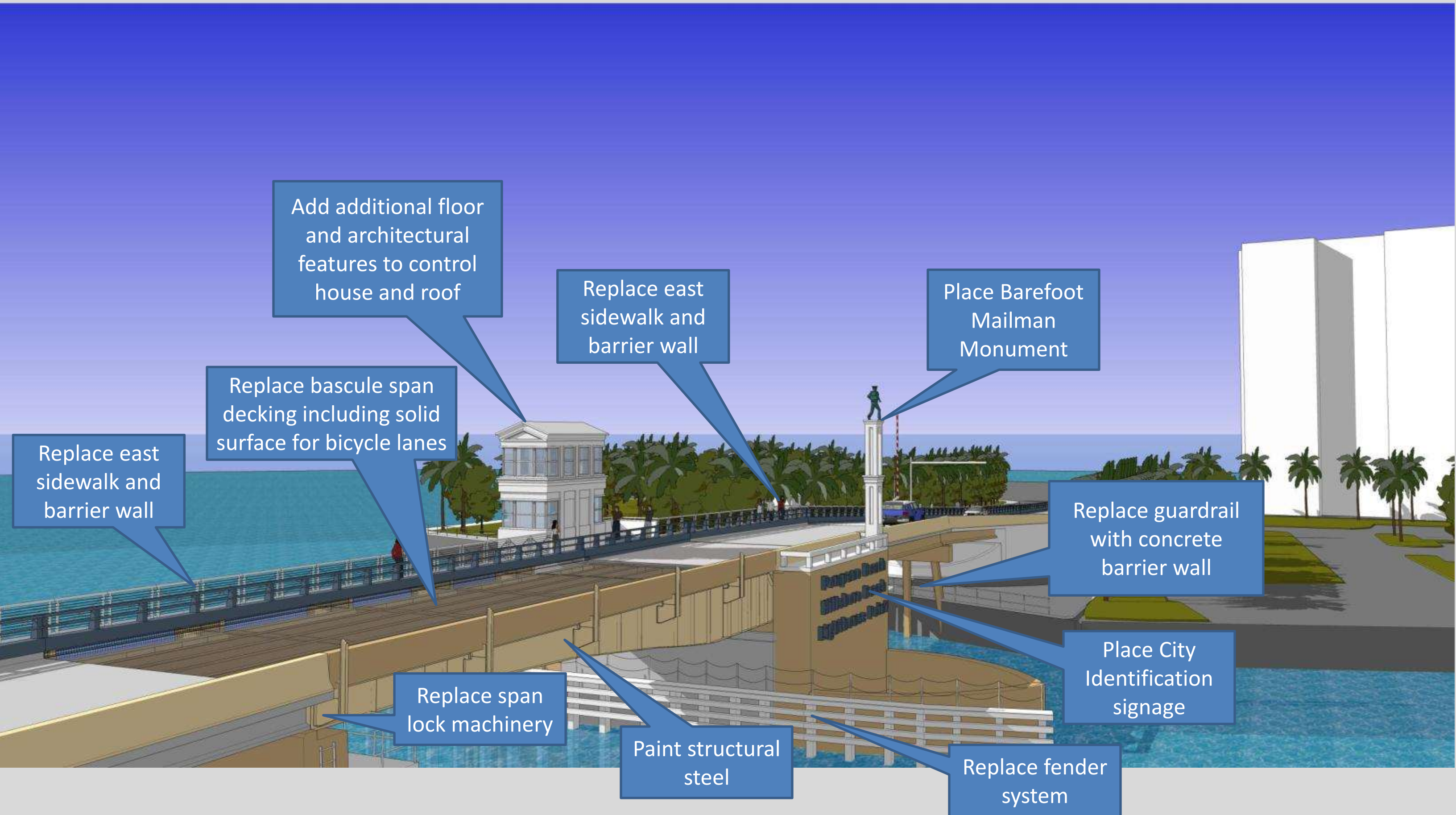
NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15, F.A.C.

- Total Road way closure and bridge at up position. No water way closure. **15 working days (19 calendar days)**
- Single lane closure will be required intermittently during 20 days of Tender House work
- Single lane closure will be required intermittently during 25 days of Steel Painting work
- Daily Closure required for completing bridge grating:
Options 1: Monday to Friday, Daily Closure From 8:00 am to 12:00 pm for four weeks (roadway closed and bridge closed in down position and cannot be opened for large marine vessels). The bridge will be open after 12:00 pm
Options 2: Two full day closure and three half day closure for one and half week (roadway closed and bridge closed in down position and cannot be opened for large marine vessels)

Proposed Rehabilitation of Bridge and Approaches



Proposed Rehabilitation of Bridge and Approaches



Proposed Rehabilitation of Bridge and Approaches

Add additional floor and architectural features to control house and roof

Replace east sidewalk and barrier wall

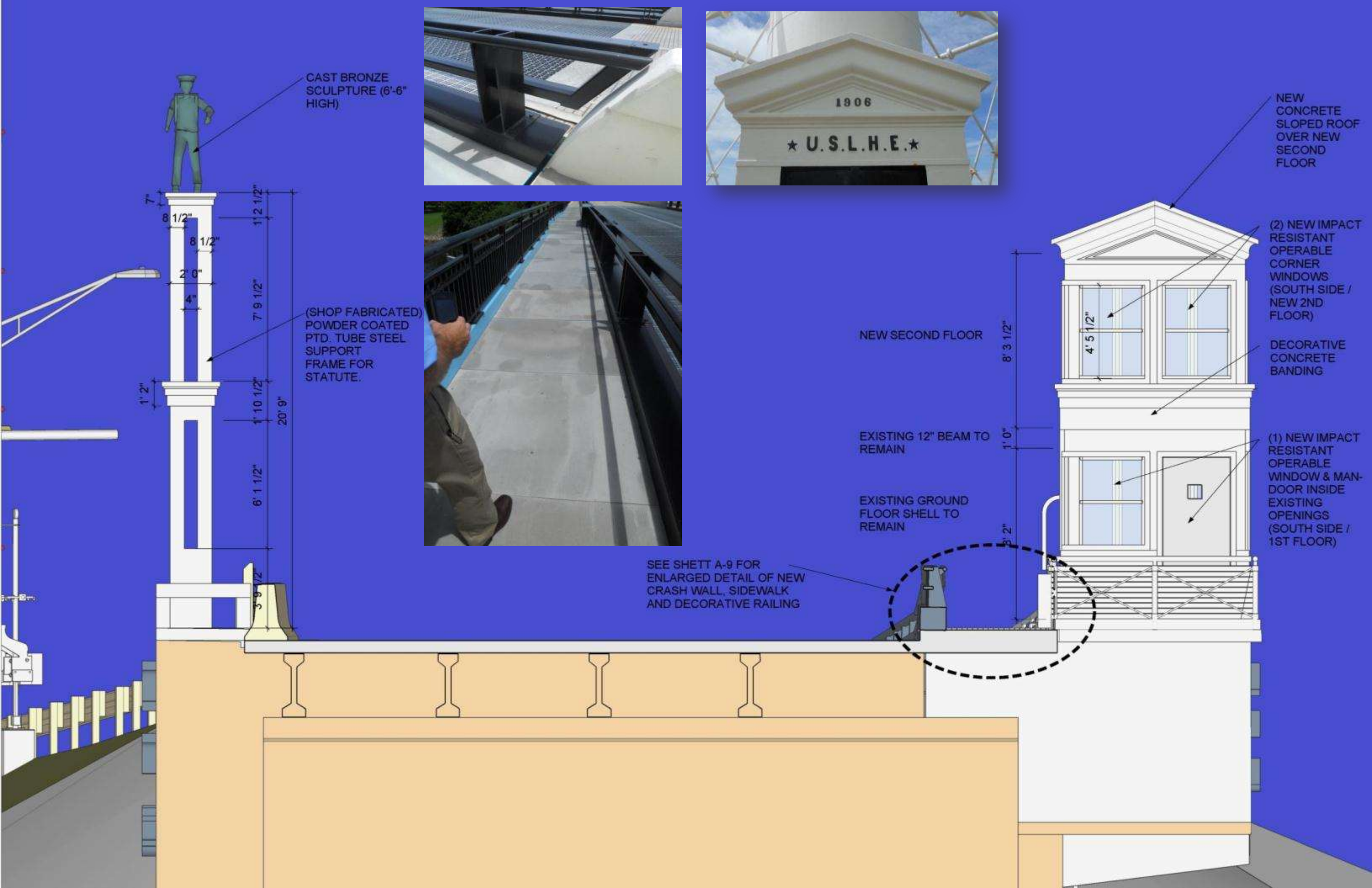
Place Barefoot Mailman Monument

Replace bascule span decking including solid surface for bicycle lanes



Proposed Rehabilitation of Bridge and Approaches





CAST BRONZE
SCULPTURE (6'-6"
HIGH)

(SHOP FABRICATED)
POWDER COATED
PTD. TUBE STEEL
SUPPORT
FRAME FOR
STATUE.

1906

★ U.S.L.H.E. ★

NEW
CONCRETE
SLOPED ROOF
OVER NEW
SECOND
FLOOR

(2) NEW IMPACT
RESISTANT
OPERABLE
CORNER
WINDOWS
(SOUTH SIDE /
NEW 2ND
FLOOR)

DECORATIVE
CONCRETE
BANDING

(1) NEW IMPACT
RESISTANT
OPERABLE
WINDOW & MAN-
DOOR INSIDE
EXISTING
OPENINGS
(SOUTH SIDE /
1ST FLOOR)

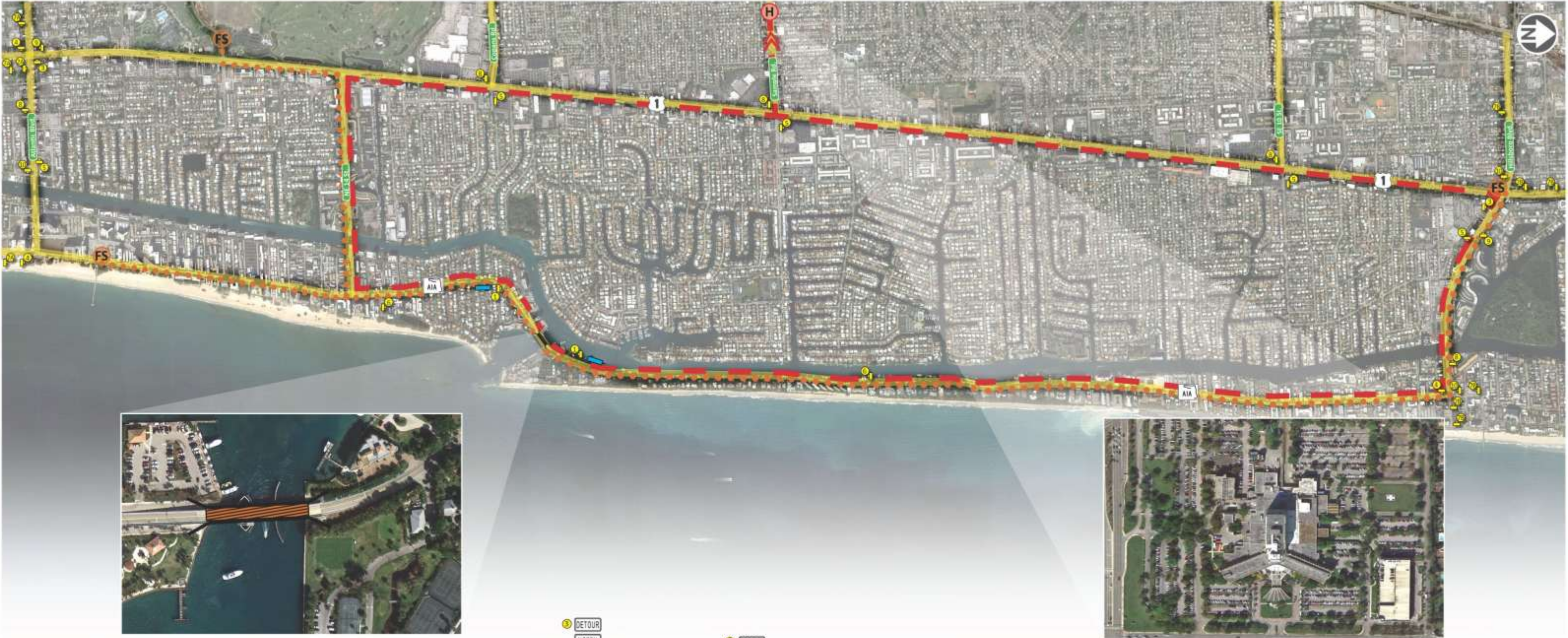
NEW SECOND FLOOR

EXISTING 12" BEAM TO
REMAIN

EXISTING GROUND
FLOOR SHELL TO
REMAIN

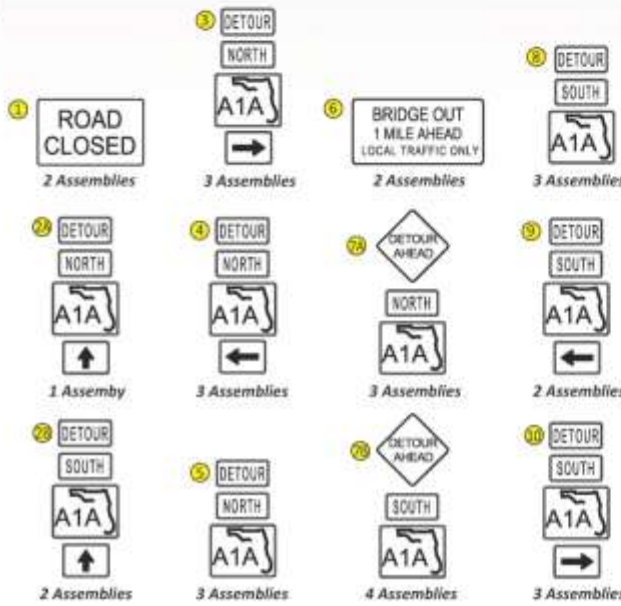
SEE SHETT A-9 FOR
ENLARGED DETAIL OF NEW
CRASH WALL, SIDEWALK
AND DECORATIVE RAILING

Proposed Detour



LEGEND

- Work Zone Sign
- Portable Changable (Variable) Message Sign
- Work Area
- Bridge



PCMS (x2)



- Notes:
1. PCMS are to be placed 1 week (7 days) in advance of construction activities. The devices then will be moved to the closed lanes and the message shall read "Stop bridge out". The bridge closure shall be in effect for no longer than 2 weeks.
 2. Contractor must coordinate with Broward County, City of Hillsboro Beach and City of Pompano Beach regarding the date and duration of bridge closure.

- Route to nearest Fire Stations
- Route to nearest Hospital

HILLSBORO INLET BRIDGE



The Hillsboro Inlet Lighthouse



The Legend of James Edward Hamilton—Barefoot Mailman

Photo Credit: The Hillsboro Lighthouse Preservation Society



Panel 2, Legend of James Edward Hamilton—Barefoot Mailman



Panel 5, Legend of James Edward Hamilton—Barefoot Mailman

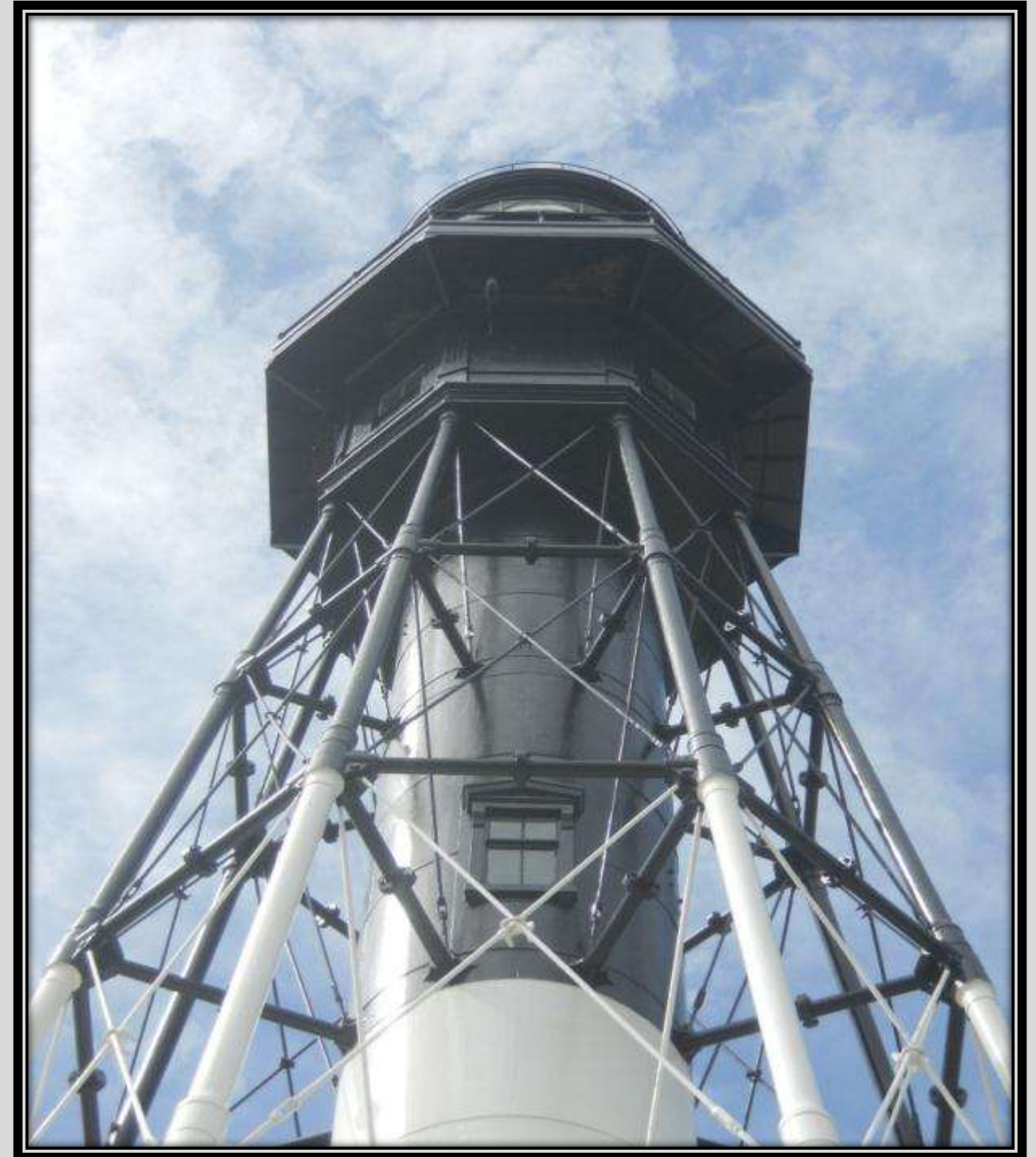
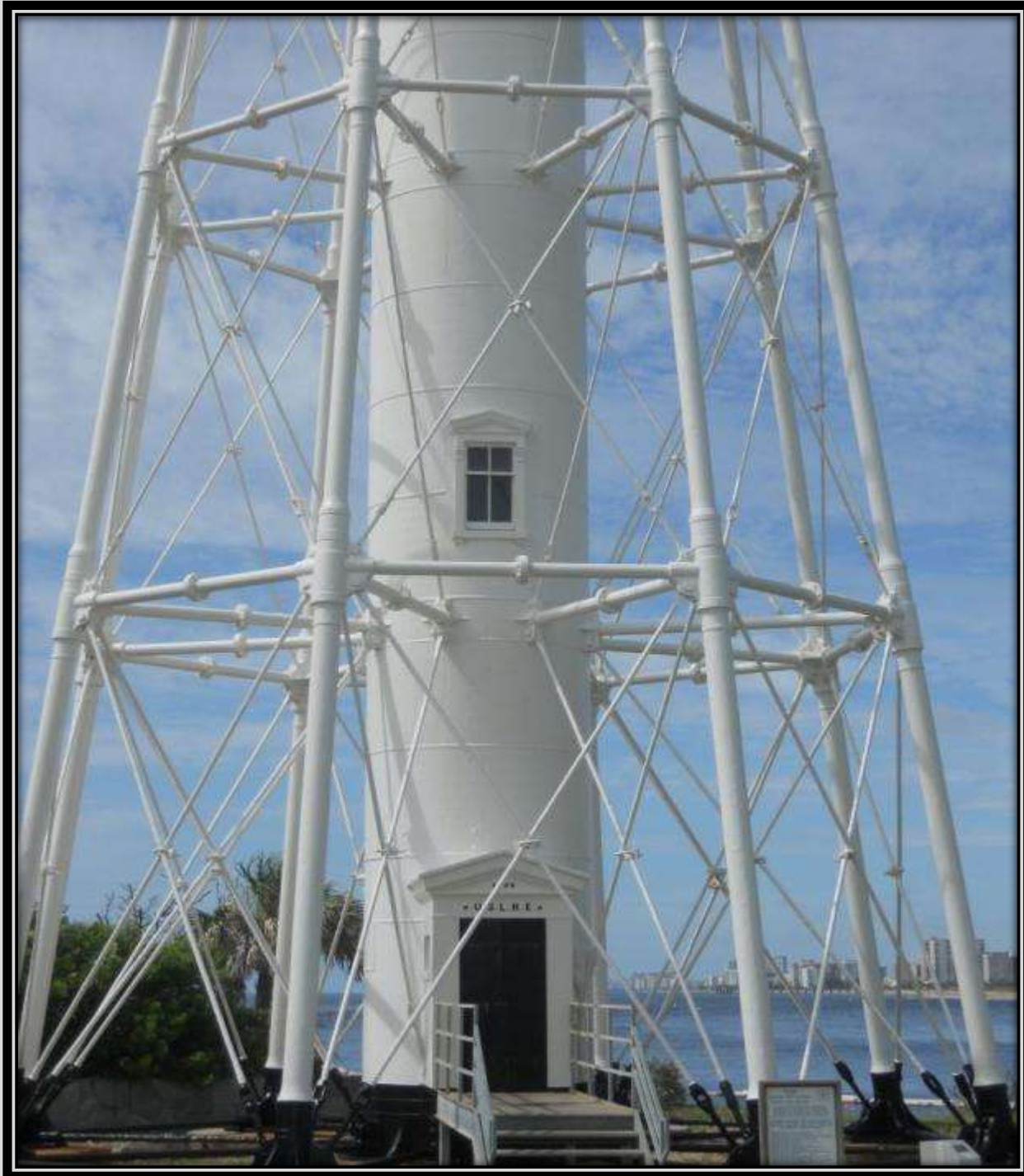
7th Dist. Photos

Hillsboro Inlet Lt. Sta
1907-



Photo Credit:
The Hillsboro Lighthouse
Preservation Society

The Hillsboro Inlet Lighthouse





Hillsboro Lighthouse Pediment



Existing Condition



Proposed Rehabilitation of Bridge and Approaches



Existing Condition



Proposed Rehabilitation of Bridge and Approaches



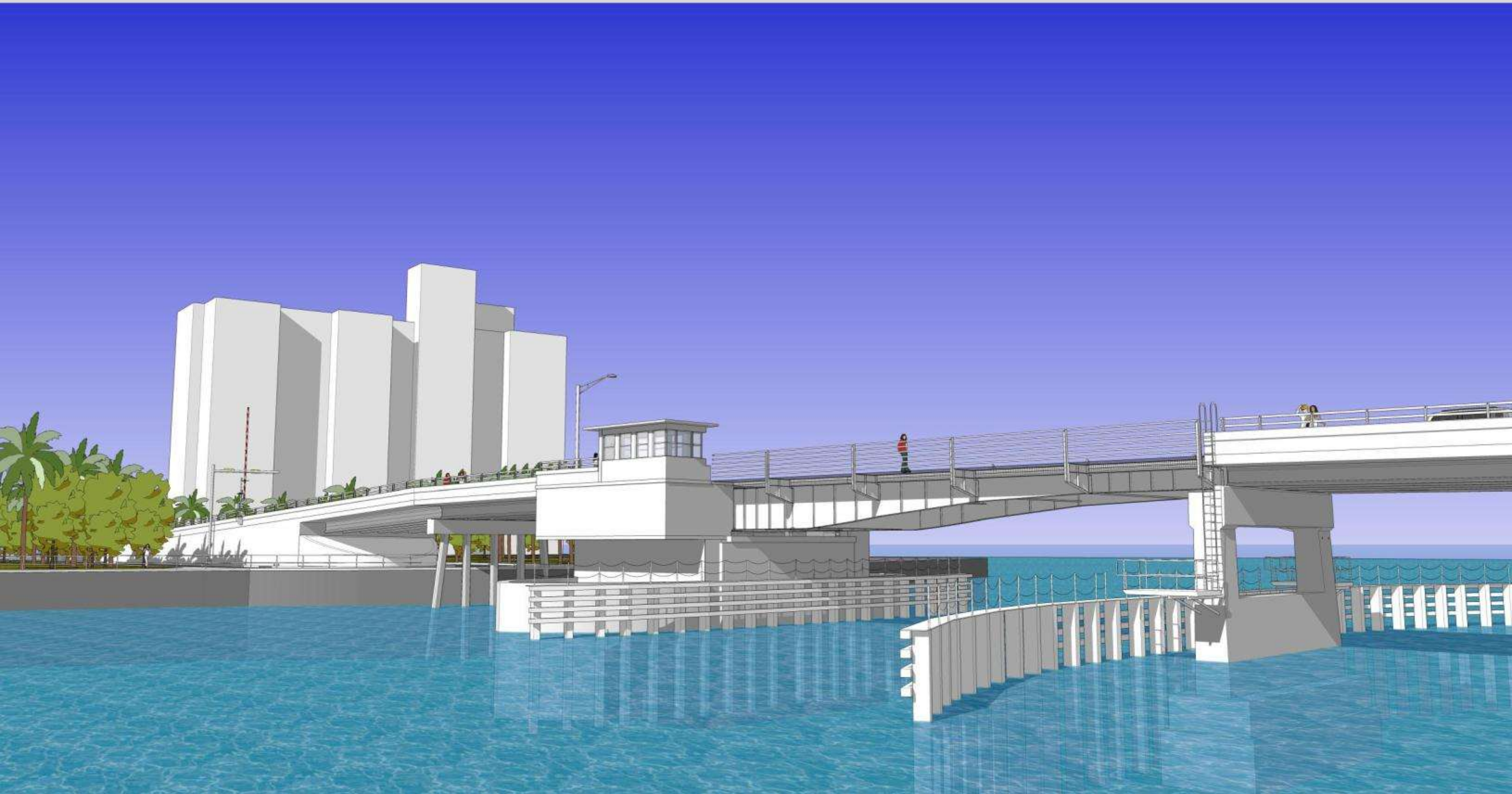
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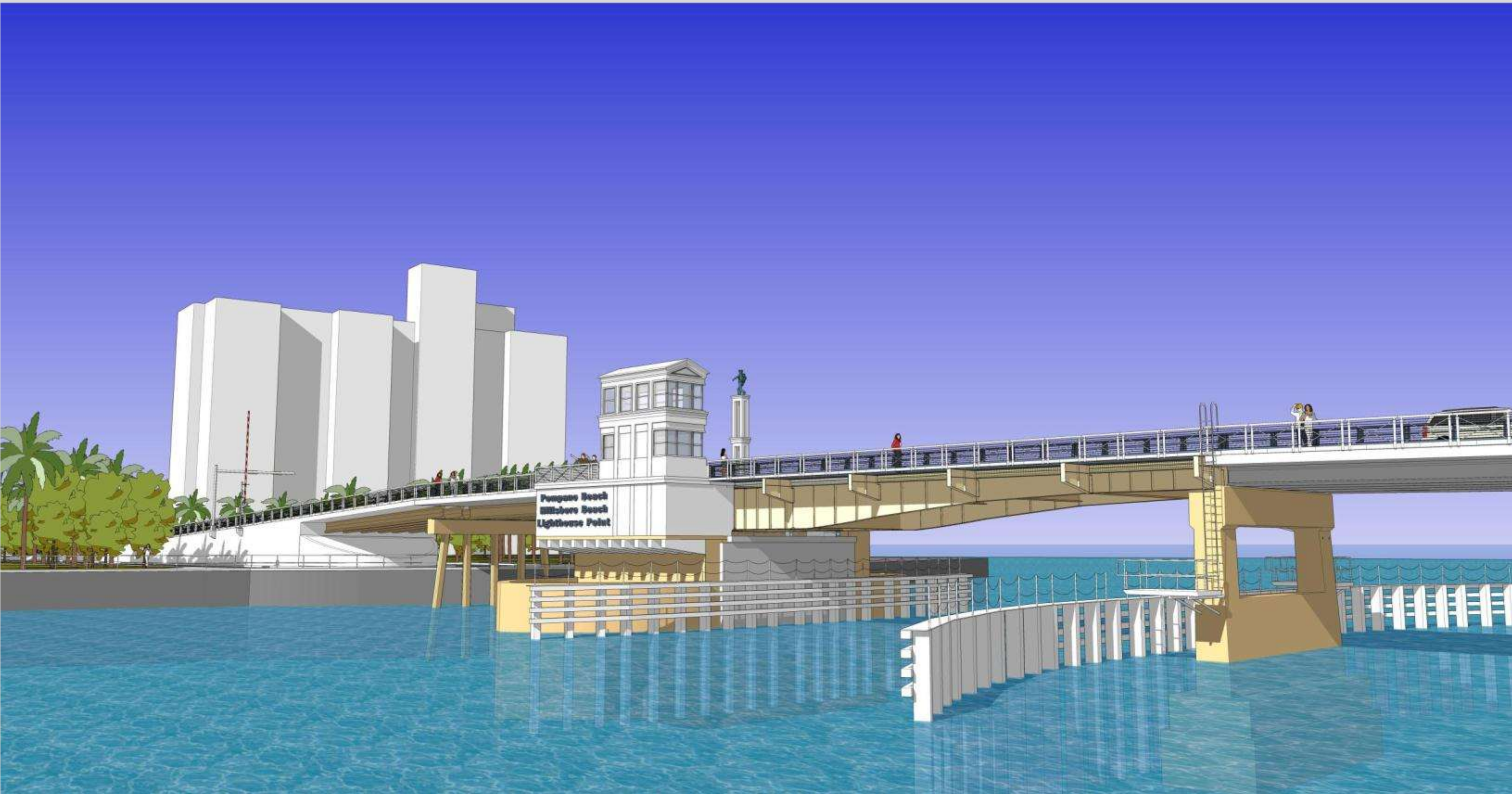
Proposed Rehabilitation of Bridge and Approaches



Existing Condition



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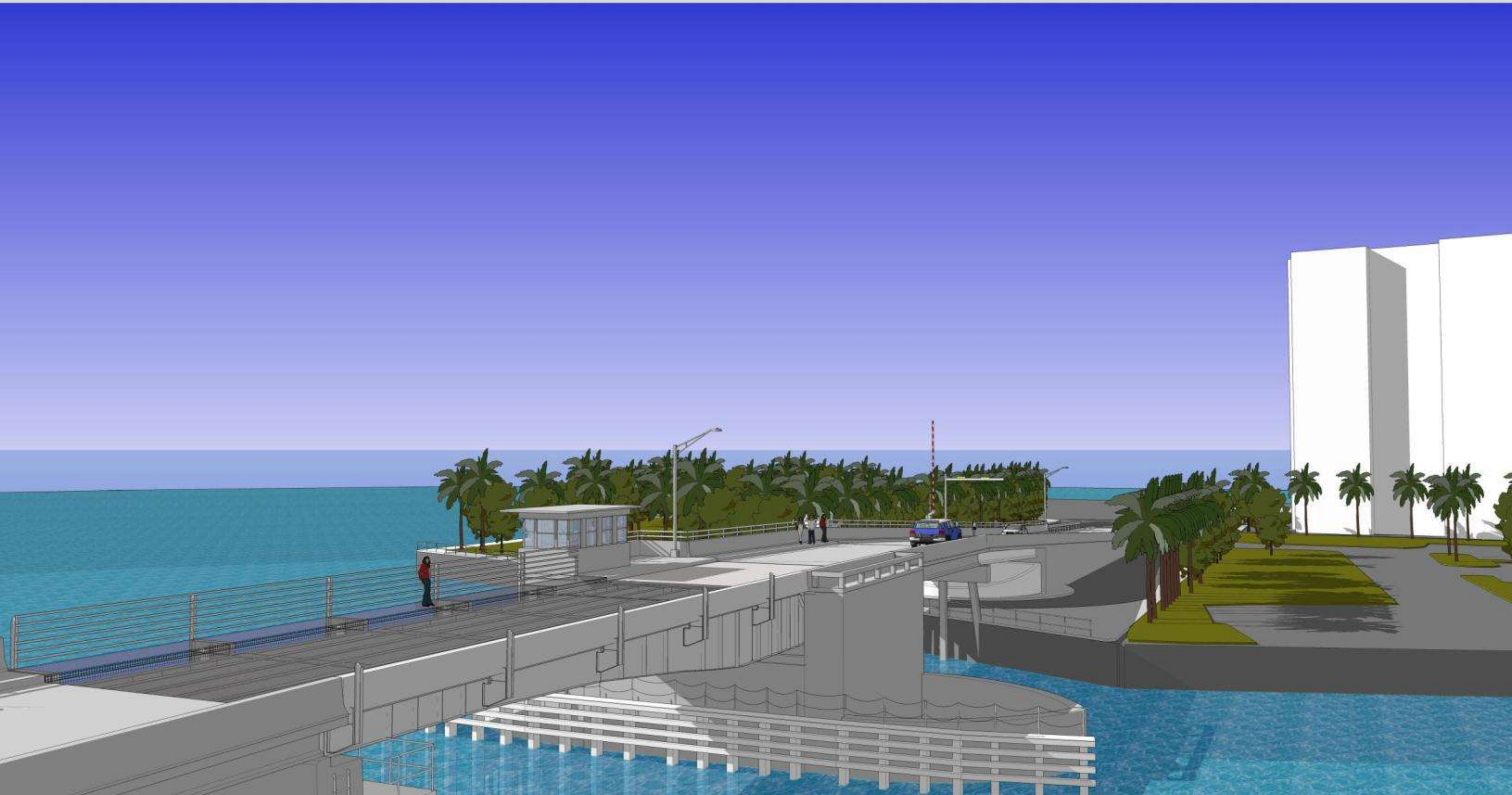
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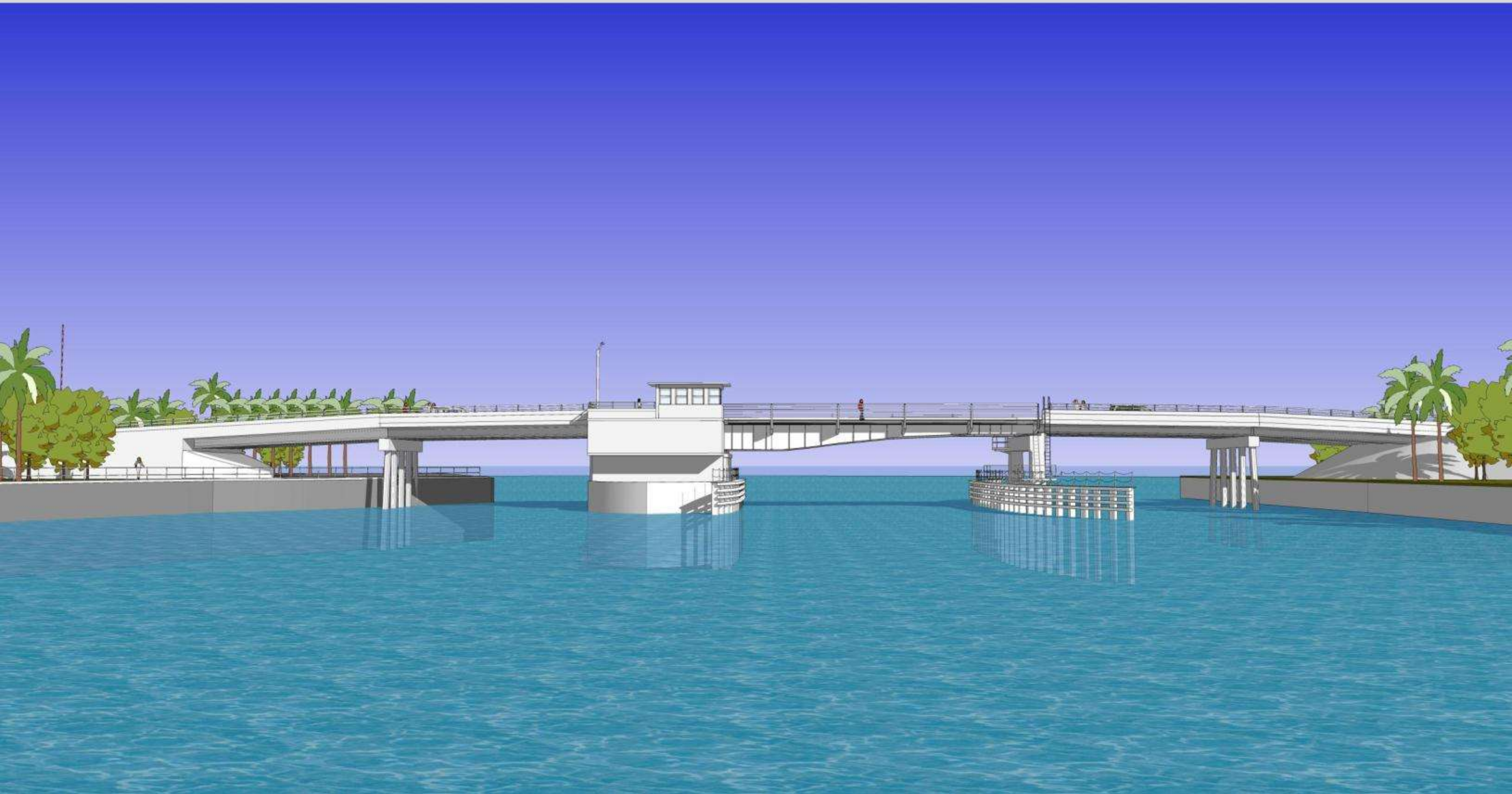
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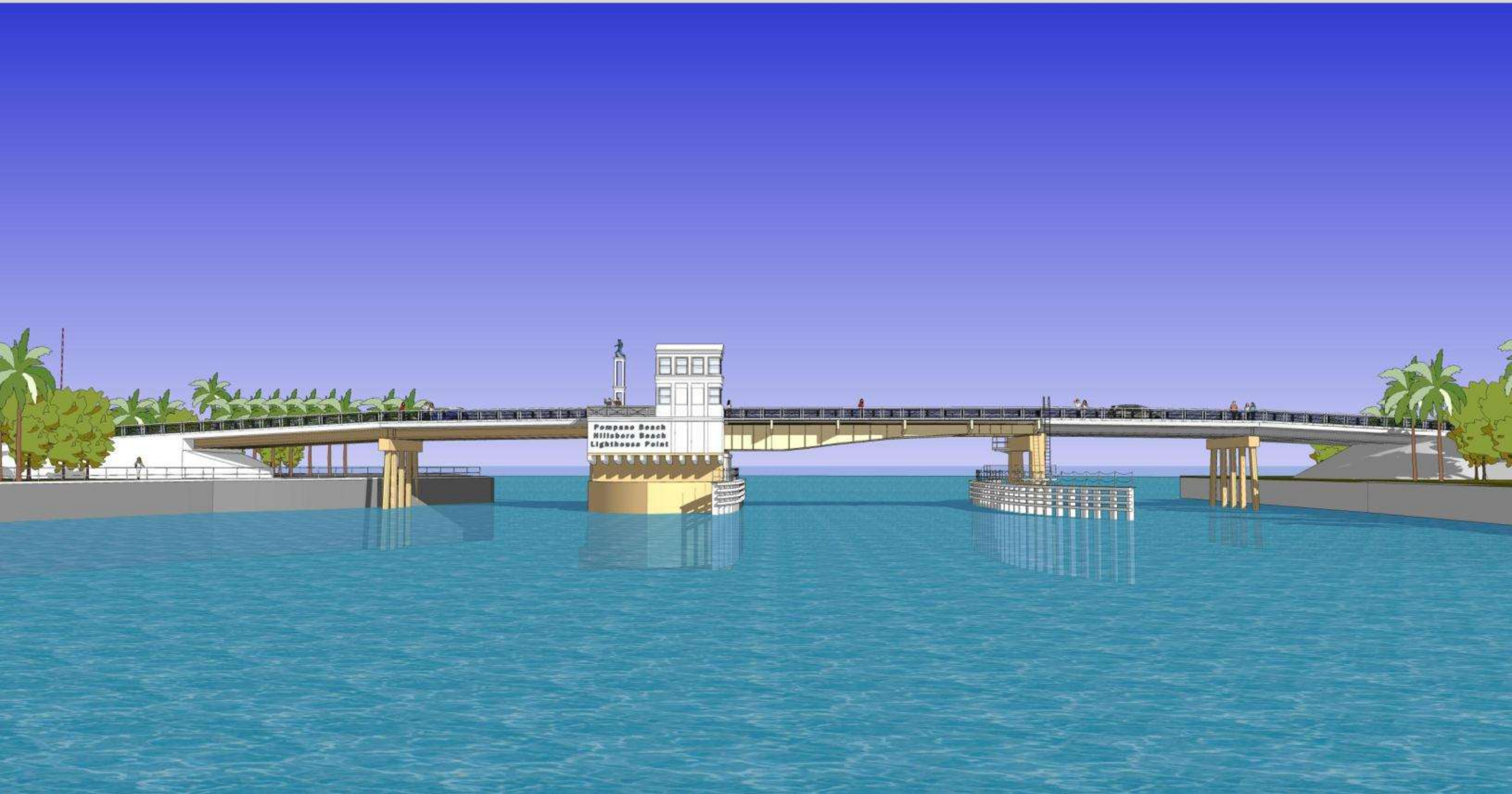
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Existing Condition



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COMMUNITY AWARENESS MEETING

THANK YOU!

