



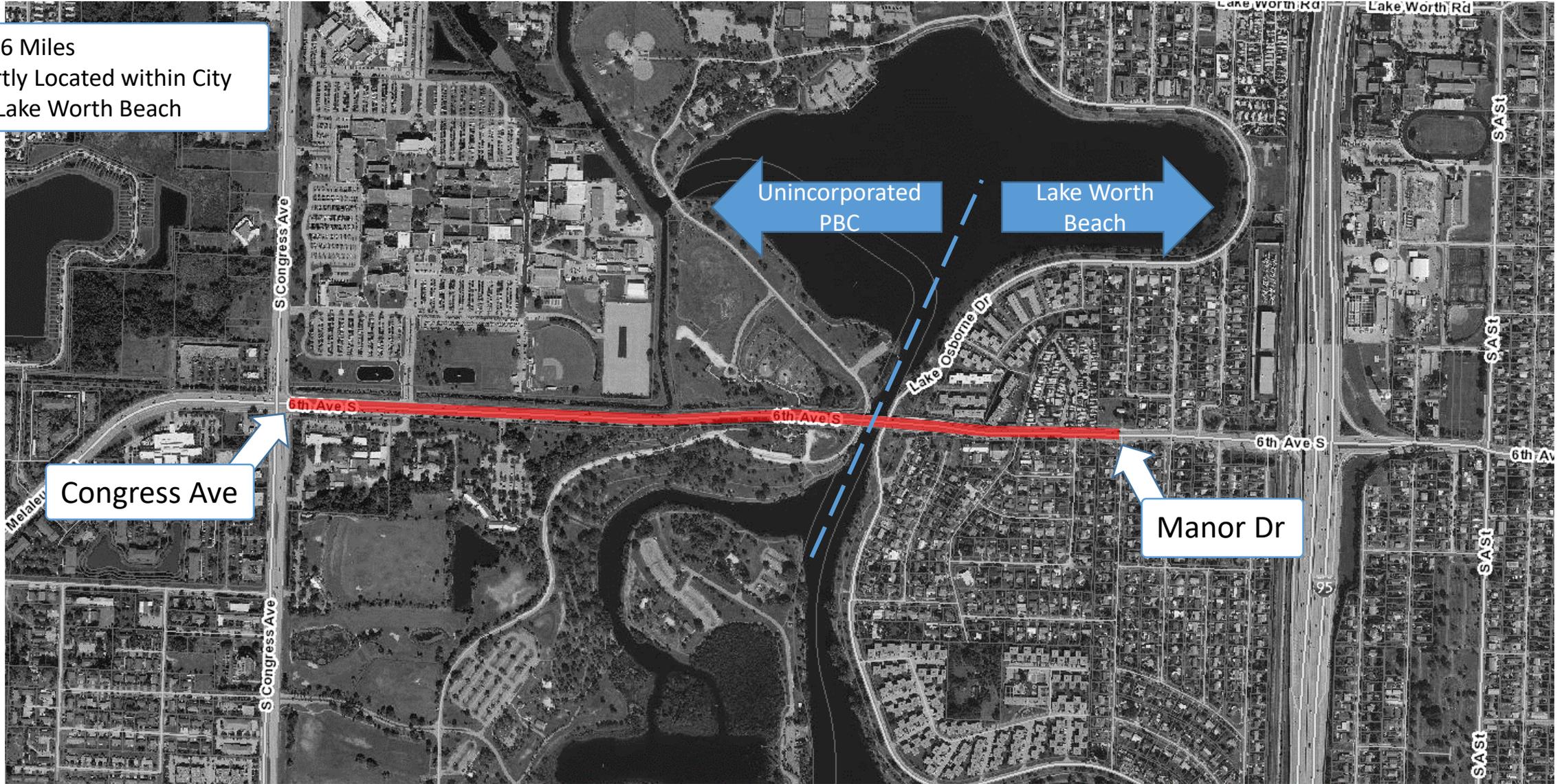
6TH AVE SOUTH OVER LAKE OSBORNE DR

Infrastructure Sales Tax Oversight Committee

Feb 17, 2022

Project Location

- 0.96 Miles
- Partly Located within City of Lake Worth Beach



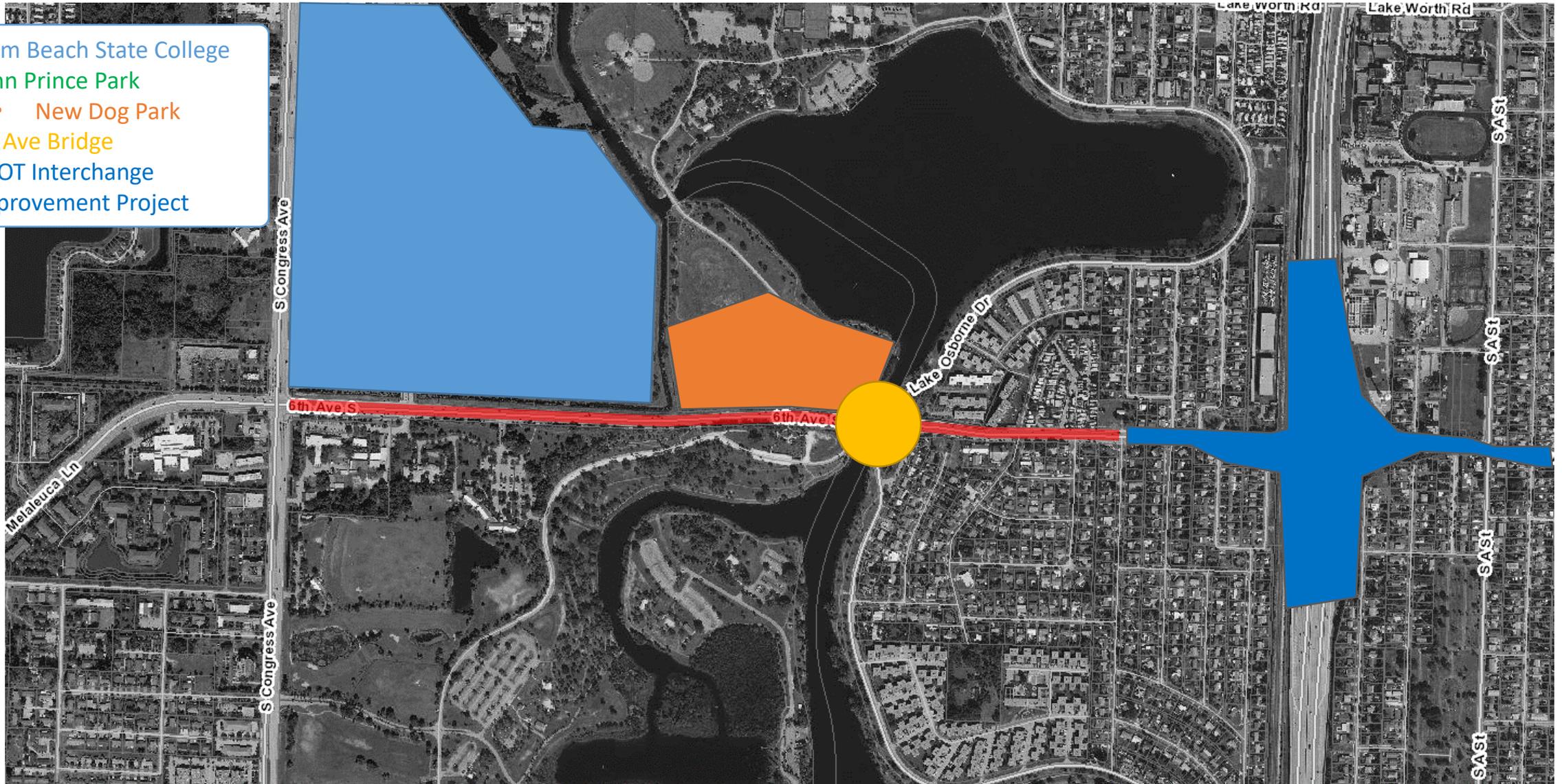
Project Location

- Palm Beach State College
- John Prince Park



Project Location

- Palm Beach State College
- John Prince Park
 - New Dog Park
- 6th Ave Bridge
- FDOT Interchange Improvement Project



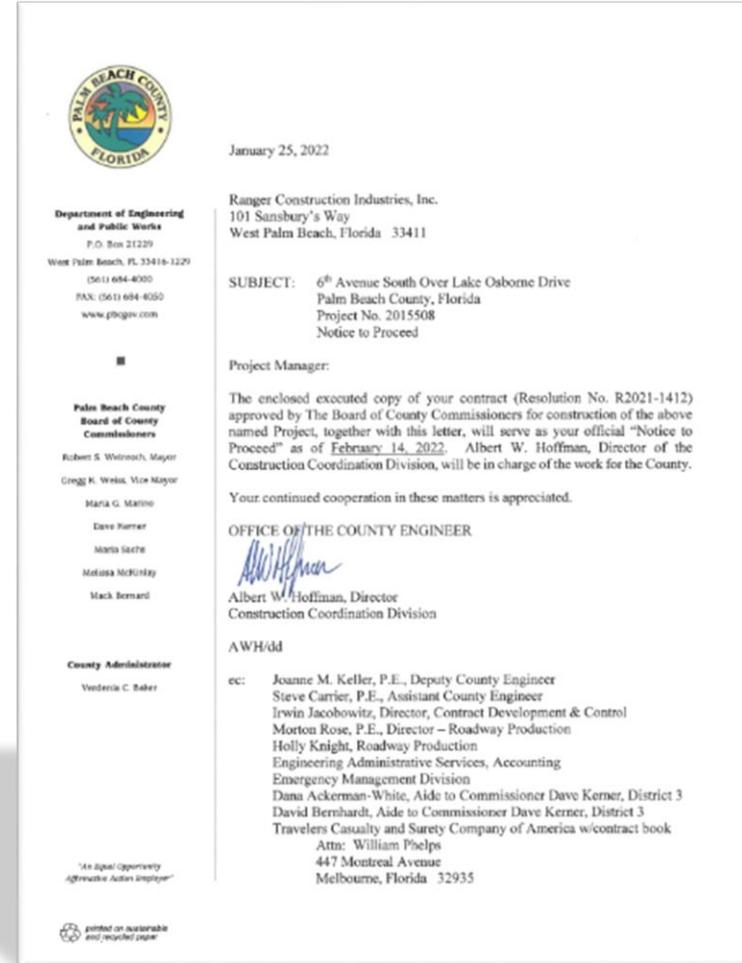
Funding Overview

- \$11M Construction Total
 - \$5M Roadway
 - \$5M Bridge
 - \$500k Signal
 - \$625k Bulkhead Wall
- Funding Sources
 - \$6M Infrastructure sales tax
 - Remaining funding from 5 year work program



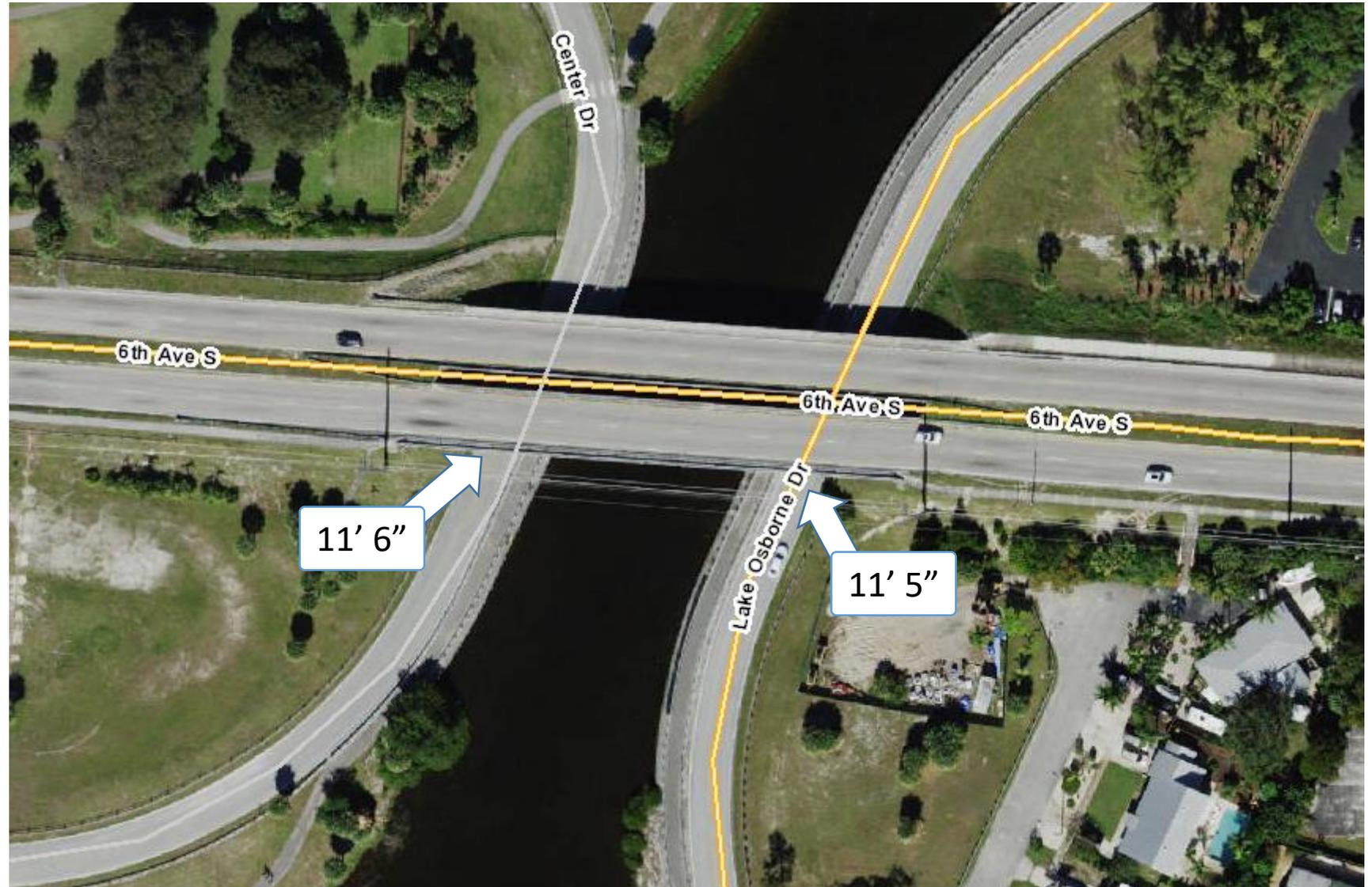
Construction Overview

- Ranger Construction
- Start date is Feb 2, 2022
- Completion date June 28, 2023
- 500 Calendar Days Total
- Anticipated MOT:
 - No anticipated shutdowns of 6th Ave S
 - Limited boat traffic under the bridge
 - Limited shutdowns of Lake Osborne Dr and Center Dr to vehicles but not pedestrians

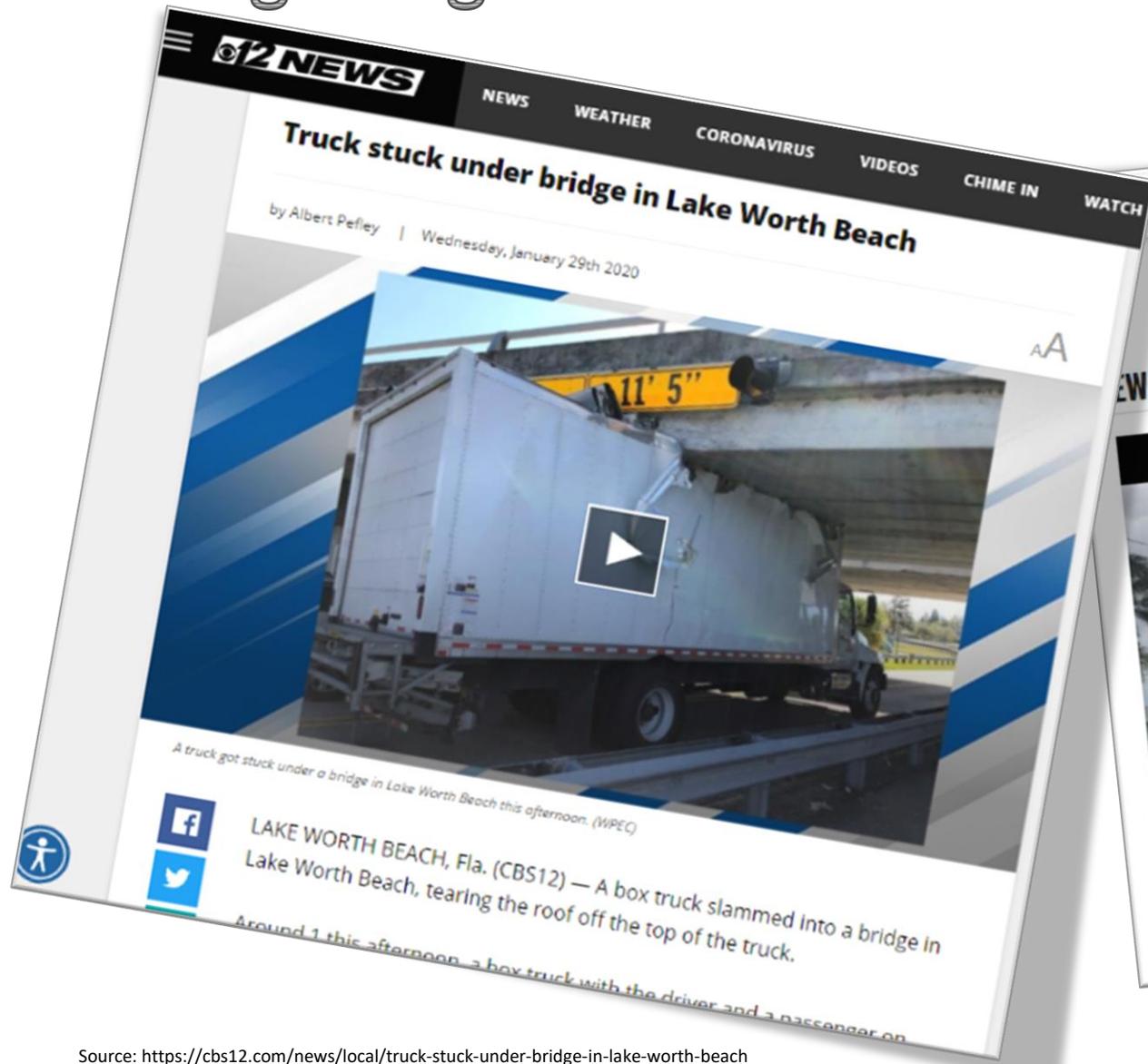


Existing Bridge

- Bridge composed of two identical independent structures (One for each direction)
- Crosses two roads in addition to Lake Osborne
 - Center Dr (25 MPH)
 - Lake Osborne Dr (30 MPH)
- Structures are functionally obsolete
- Both road crossings do not provide the AASHTO minimum clearance of 14'



Existing Bridge Conditions



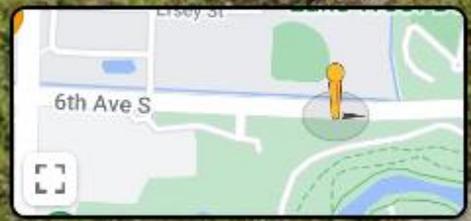
Source: <https://cbs12.com/news/local/truck-stuck-under-bridge-in-lake-worth-beach>



Source: <https://www.palmbeachpost.com/news/local/new-box-truck-gets-stuck-under-bridge-lake-worth/Tgw33JbgkGo9lw82mbLEYI/>

Existing Typical Sections 6th Ave S

- 12' lanes
- No paved shoulder
- 6' sidewalk (South side only)



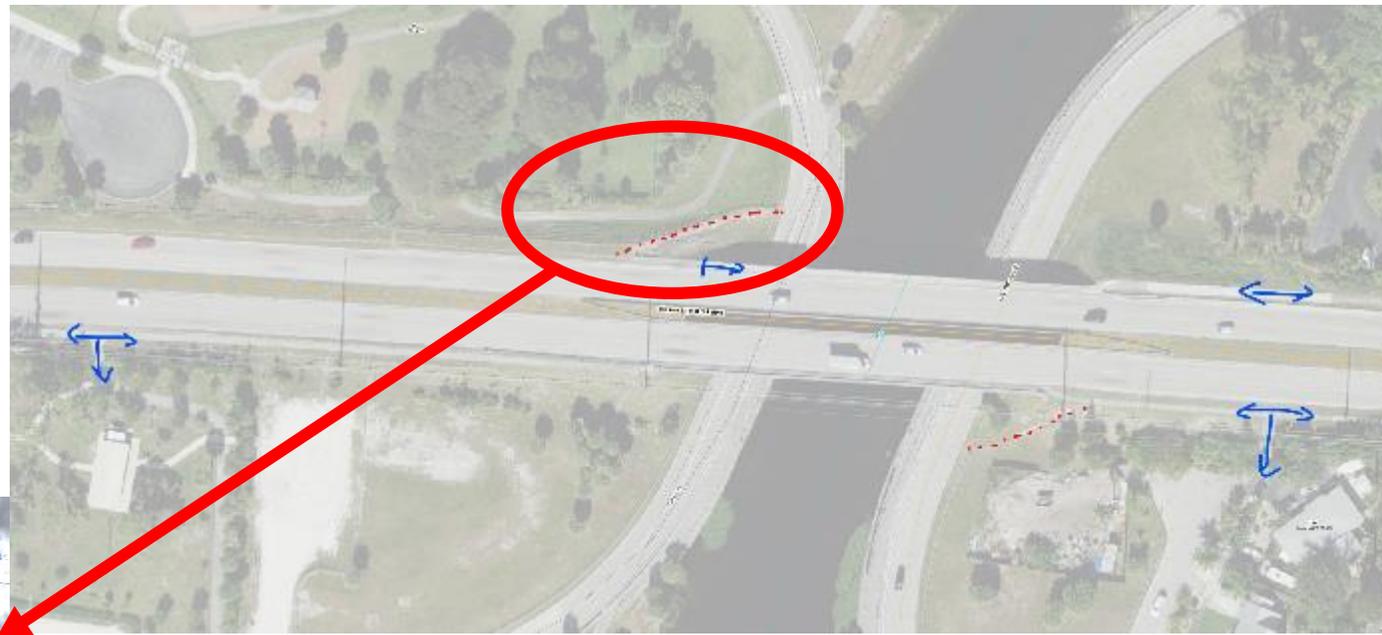
Existing Typical Sections 6th Ave S

- 12' lanes
- 2' shoulder
- < 4' wide sidewalk



Pedestrian Accessibility

- Limited ability to access Center St and Park Dr from all 4 quadrants of the bridge
- North sidewalk ends on west side of bridge



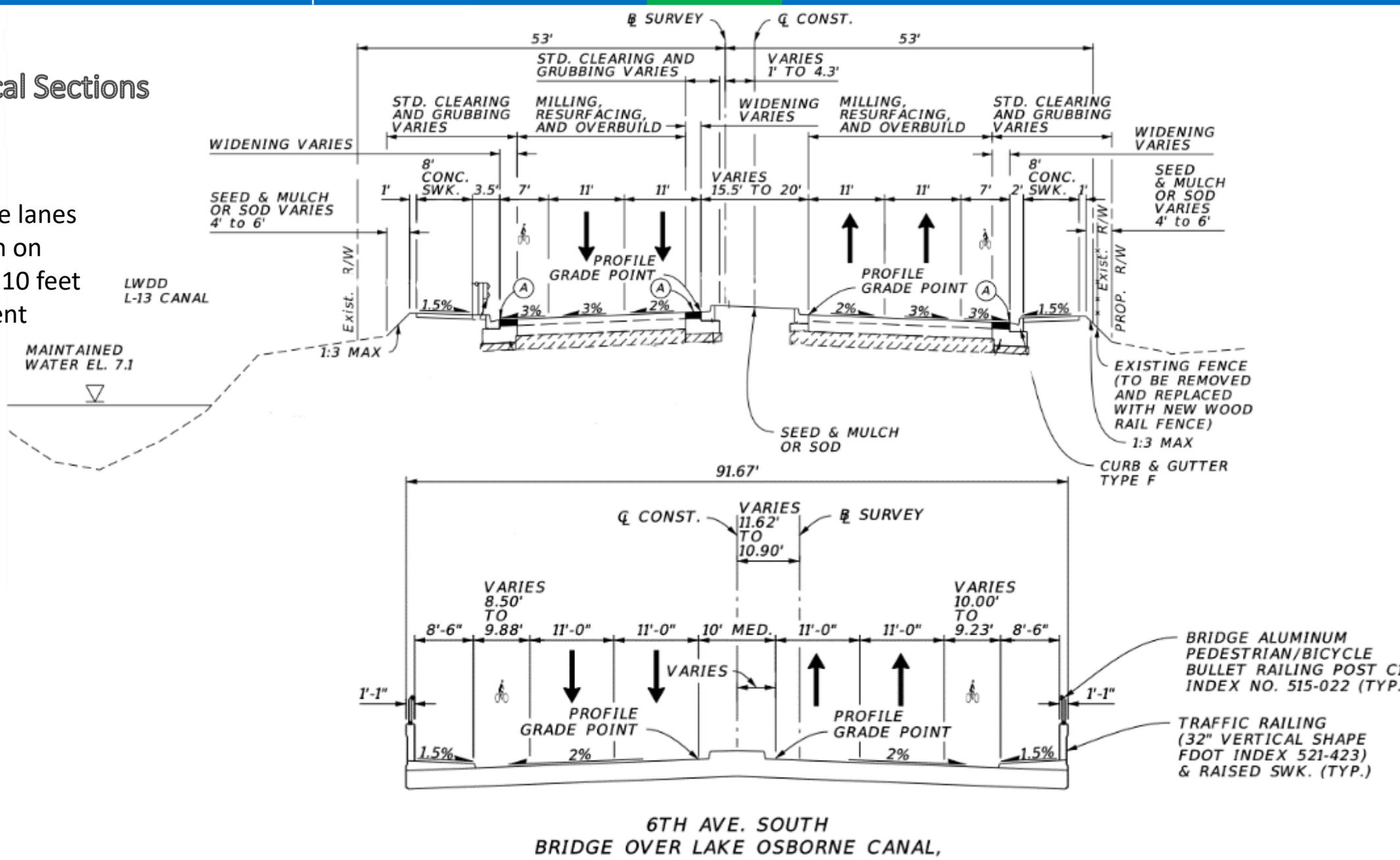
Objectives

- Increase bridge clearance over roadways
- Provide bike lanes on 6th Ave
- Improve pedestrian accessibility between the crossings
- Increase capacity at the signal for Palm Beach State College



Proposed Typical Sections 6th Ave S

- 11' lanes
- 7' buffered bike lanes
- Shoulder width on bridge is up to 10 feet due to alignment

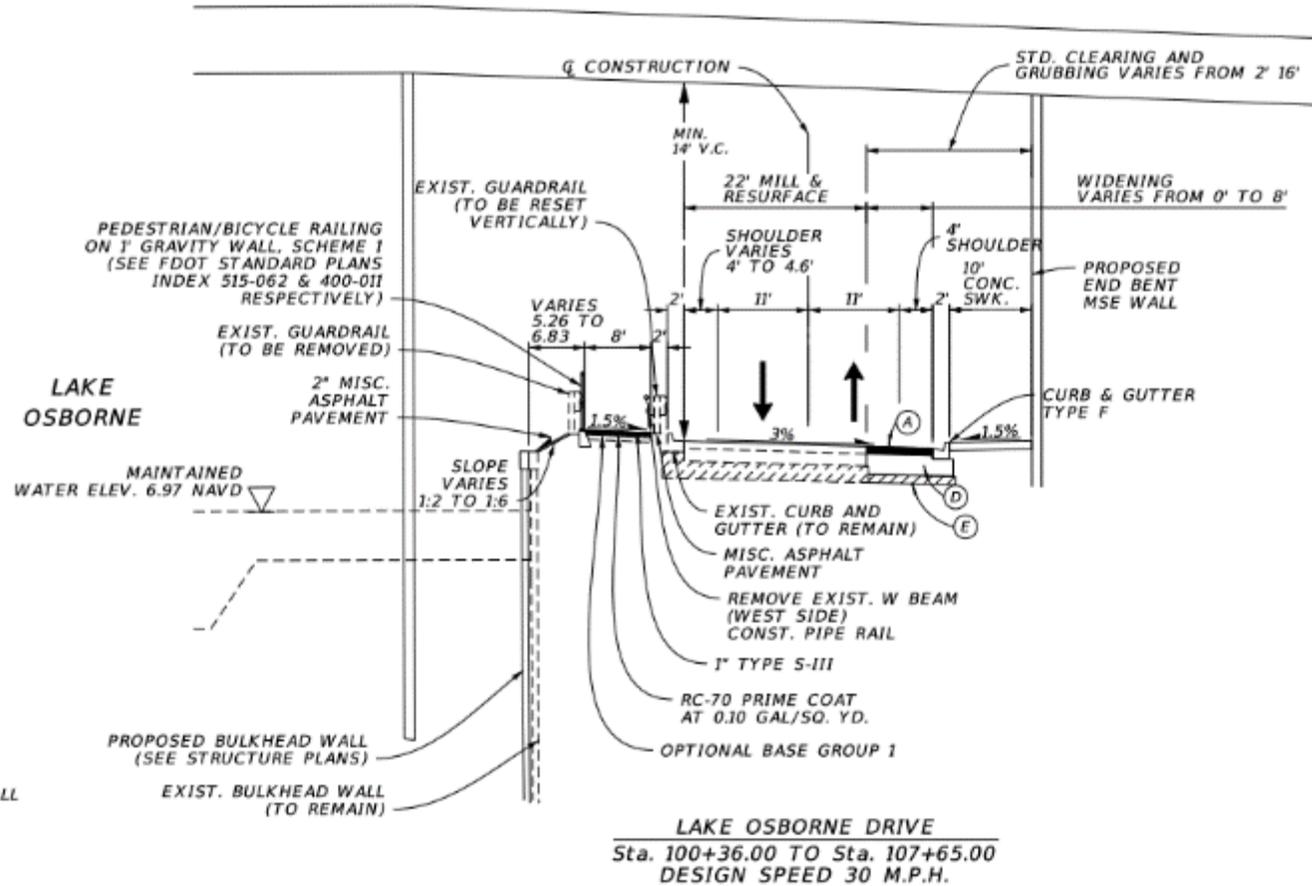
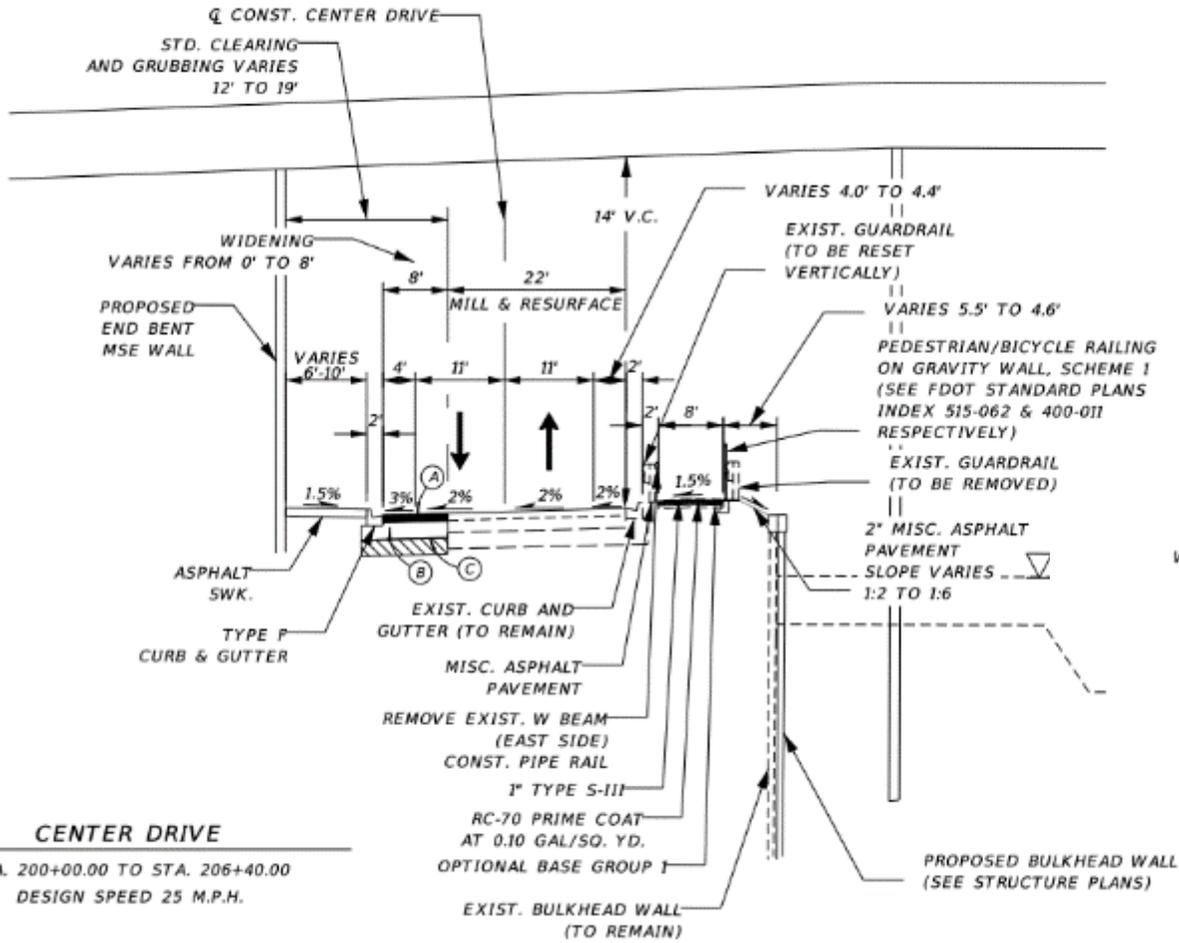


BRIDGE ALUMINUM PEDESTRIAN/BICYCLE BULLET RAILING POST C1 INDEX NO. 515-022 (TYP.)

TRAFFIC RAILING (32" VERTICAL SHAPE FDOT INDEX 521-423) & RAISED SWK. (TYP.)

Proposed Typical Sections Center Dr & Lake Osborne Dr

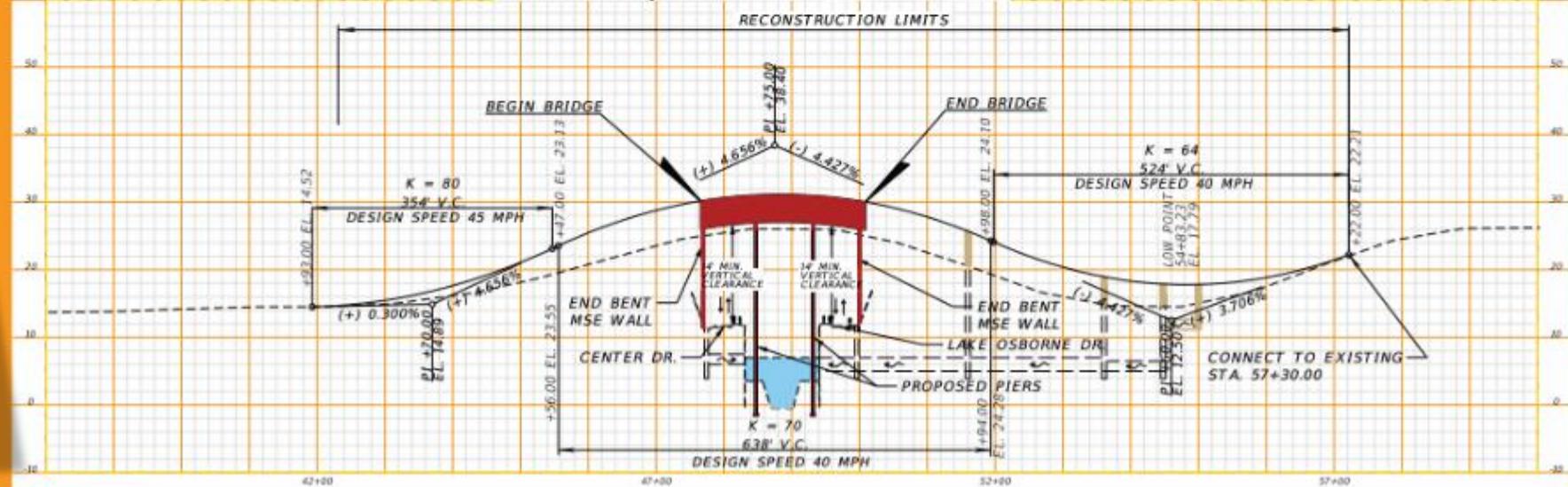
- 11' lanes
- 4' bike lanes
- 8' Pathway along water





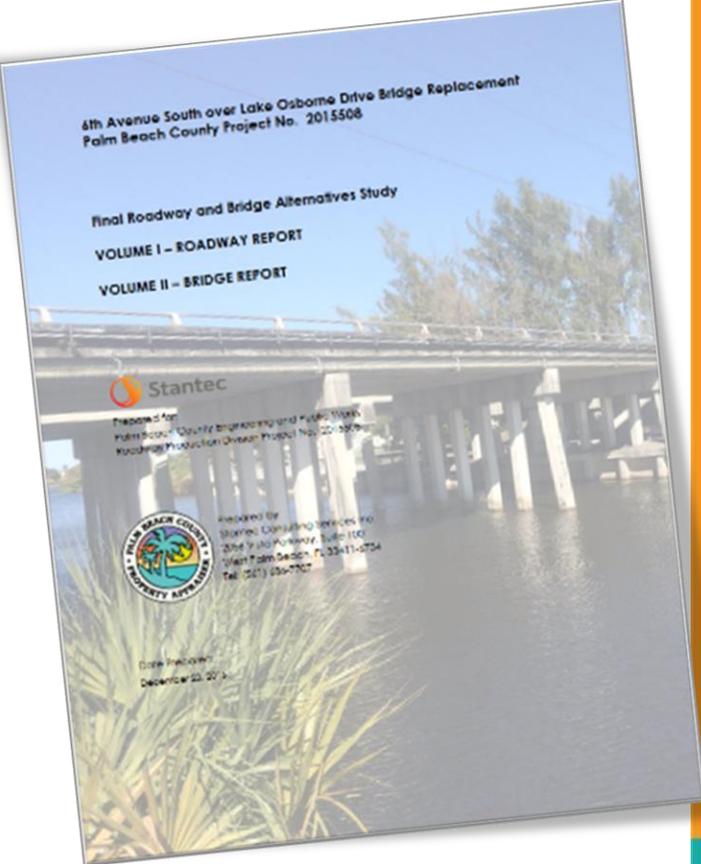
14' Vertical Clearance

6th Avenue South Over Lake Osborne Drive - Bridge Replacement



Proposed Bridge Profile

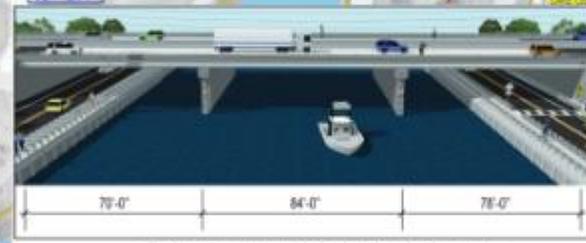
- Several alternative bridge designs were evaluated





14' Vertical Clearance

6th Avenue South Over Lake Osborne Drive - Bridge Replacement



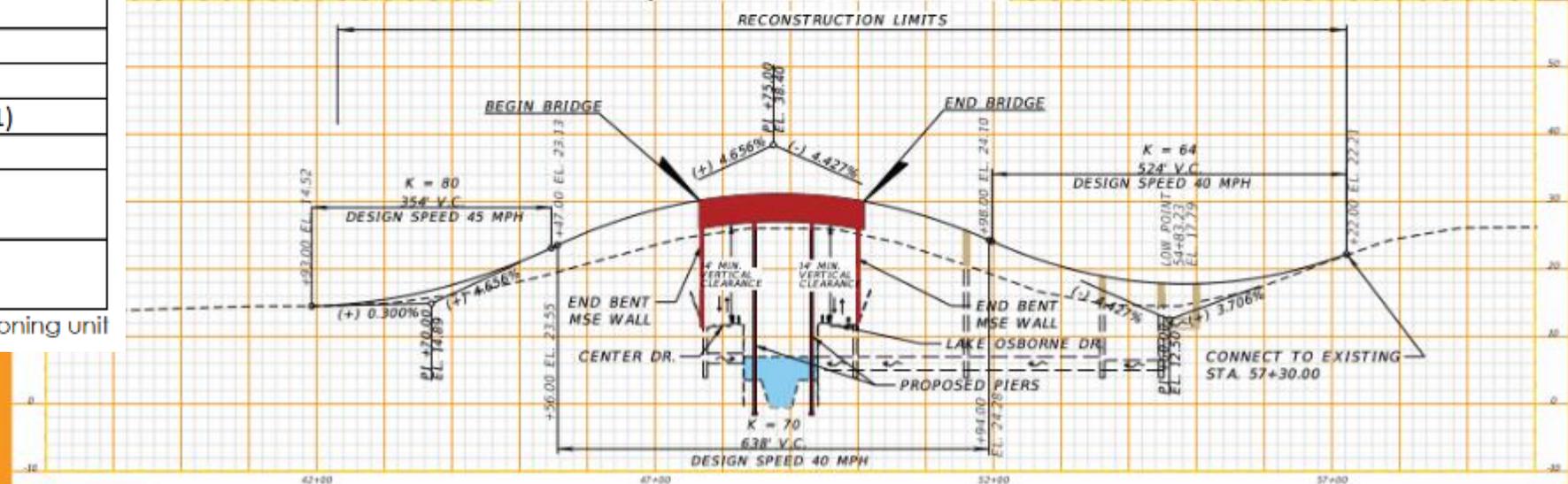
3 Span Alternative Shown

Table 6-1

Vehicle Heights by classification (source FGB Table 3-2)

Vehicle Type	Vehicle Height (feet)
Passenger Car (P)	4.25
Single Unit Truck (SU)	13.5
City Transit Bus (City-Bus)	10.5
Articulated Bus (A-Bus)	11.0
Motor Home (MH)	12.0 (1)
Car & Camper Trailer (P/T)	10.0
Semitrailer WB-40 through WB-67 (WB-##)	13.5
Double-Bottom (WBD-67D)	13.5
Semitrailer/Trailer Combination	13.5

(1) vehicle height includes a roof mounted air conditioning unit



- Bridge alignment shifted slightly north to avoid transmission lines along south side of 6th Ave.

Proposed Bridge Alignment

PBC Project No. 2015508

6th Avenue South Over Lake Osborne Drive - Bridge Replacement

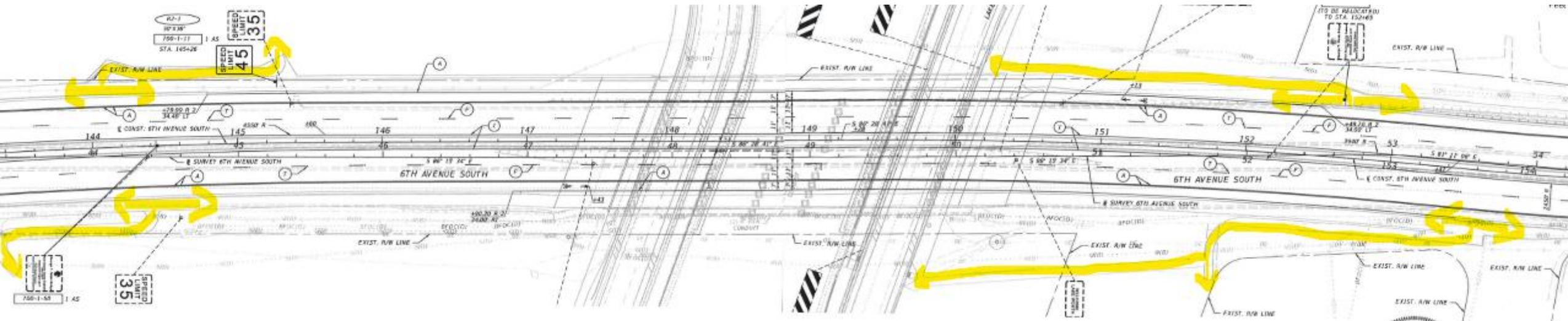


14' Vertical Clearance



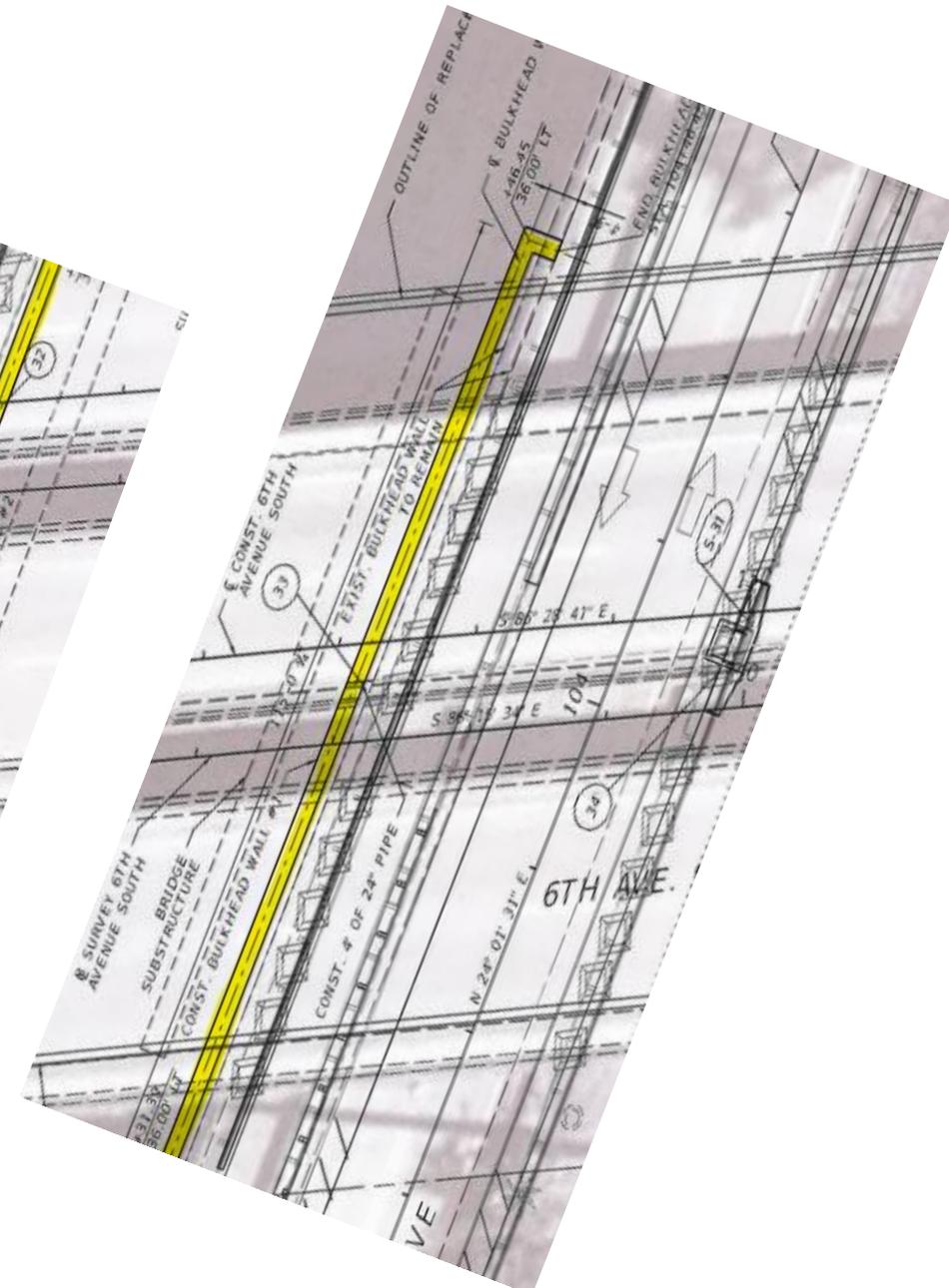
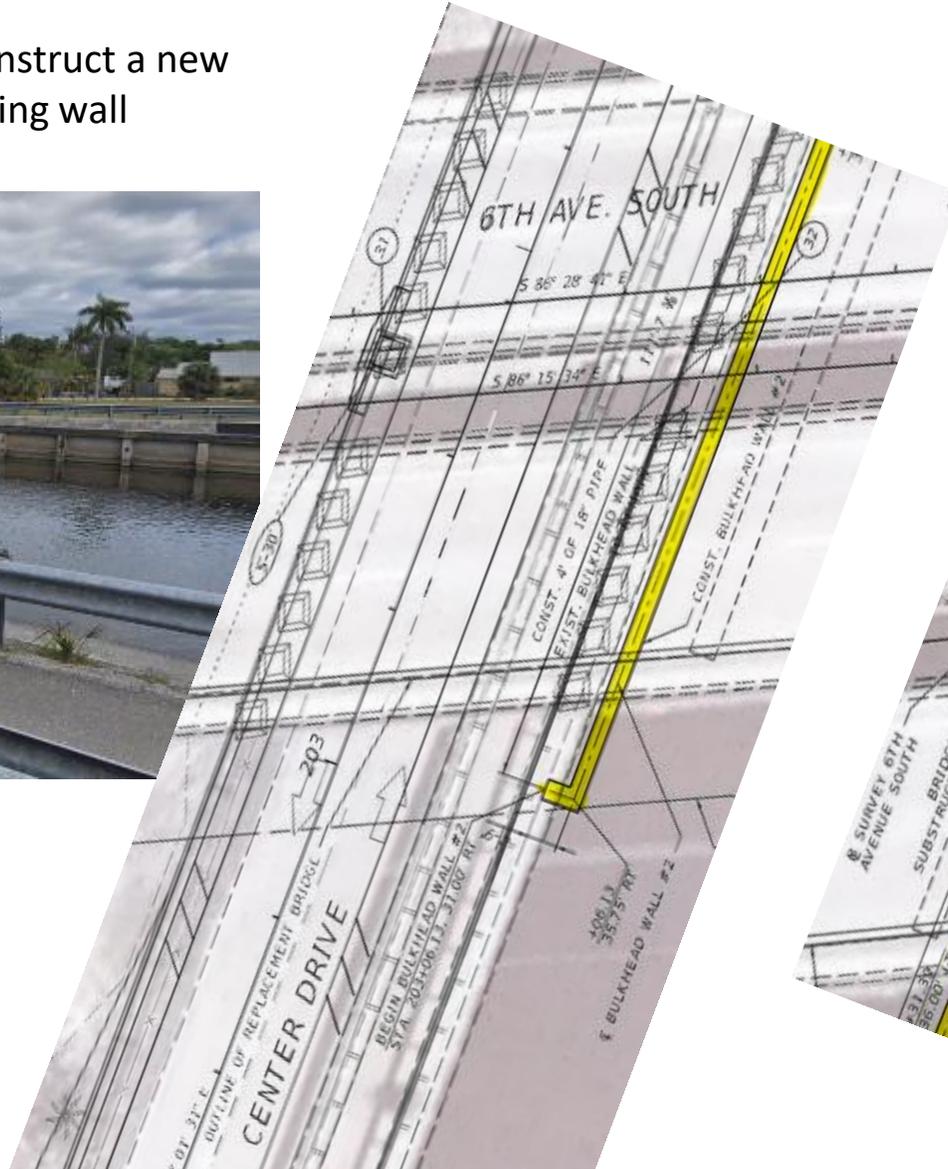
Pedestrian Accessibility

- Proposed pedestrian access in all 4 quadrants of bridge.
- Extend sidewalk on north side to Congress Ave
- Mid Block Crossings on Center Dr and Lake Osborne Dr.



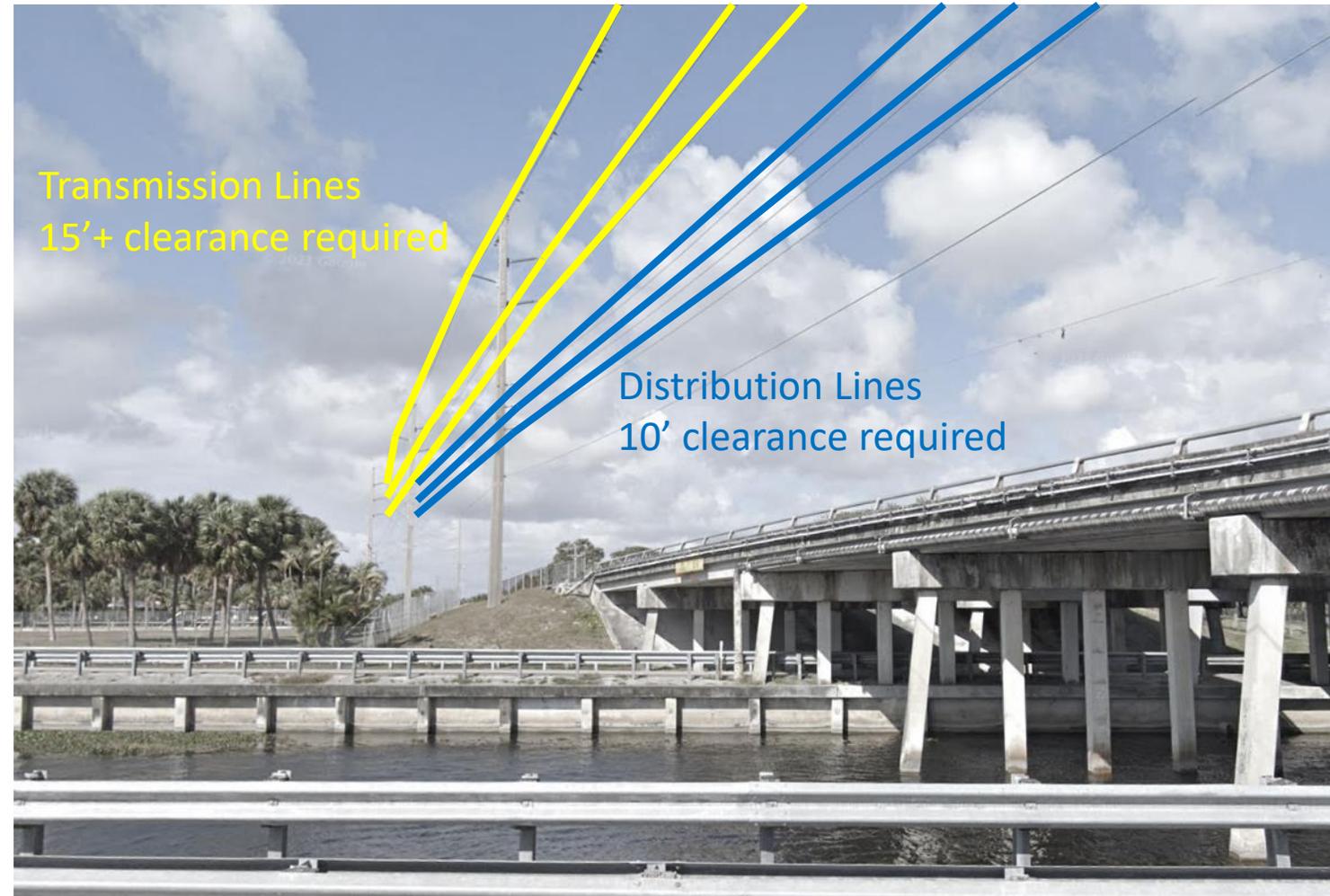
Bulkhead Wall Replacement

- While bridge is removed, we will construct a new bulkhead wall to sure up aging existing wall



Lake Worth Electric Coordination

- Lake Worth Electric Transmission & Distribution
- Need adequate separation for crane staging
- Currently working with contractor for required separation



Construction Challenges

- New resident within the project corridor discovered 1/28/22
- Gopher Tortoises are endangered species
- Requires new permit for relocation by certified professional
- Task pending approval



