

# 6<sup>TH</sup> AVE SOUTH OVER LAKE OSBORNE DR

Infrastructure Sales Tax Oversight Committee

Feb 17, 2022

Summary

### **Project Location**



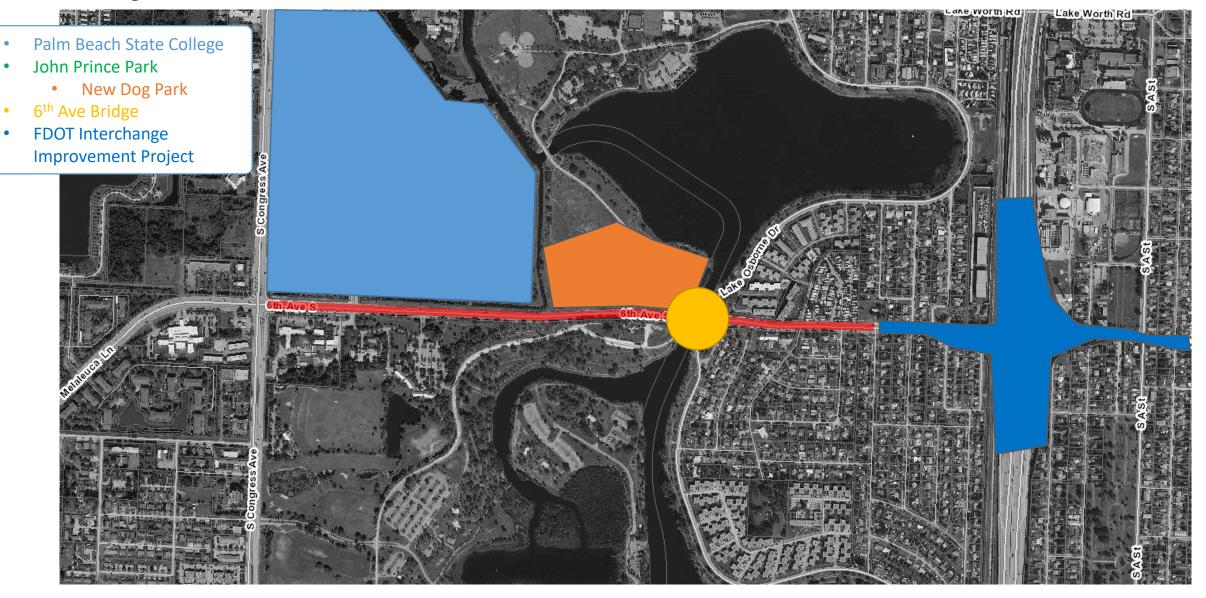
٠ Partly Located within City ٠



Summary

### **Project Location**





### 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

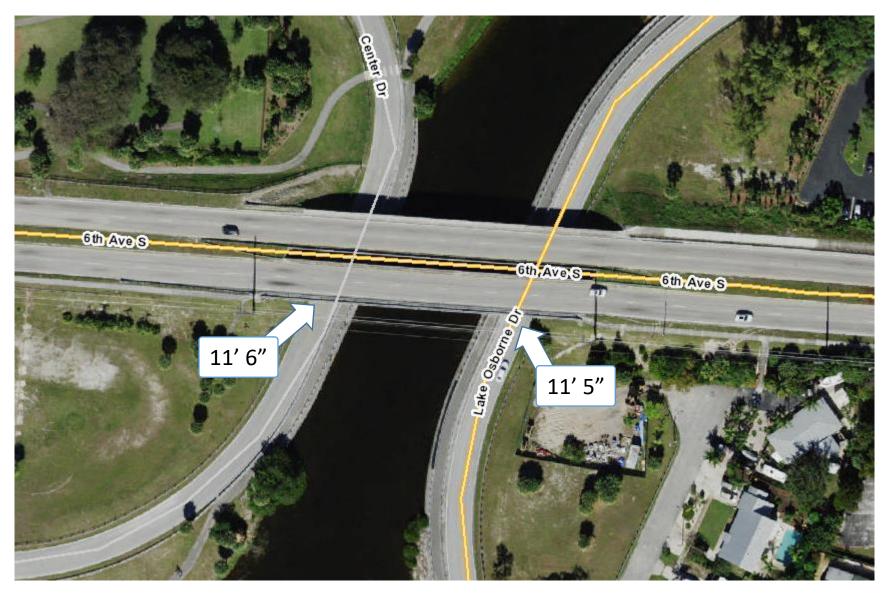


- Ranger Construction
- Start date is Feb 2, 2022
- Completion date June 28, 2023
- 500 Calendar Days Total
- Anticipated MOT:
  - No anticipated shutdowns of 6<sup>th</sup> Ave S
  - Limited boat traffic under the bridge
  - Limited shutdowns of Lake Osborne Dr and Center Dr to vehicles but not pedestrians

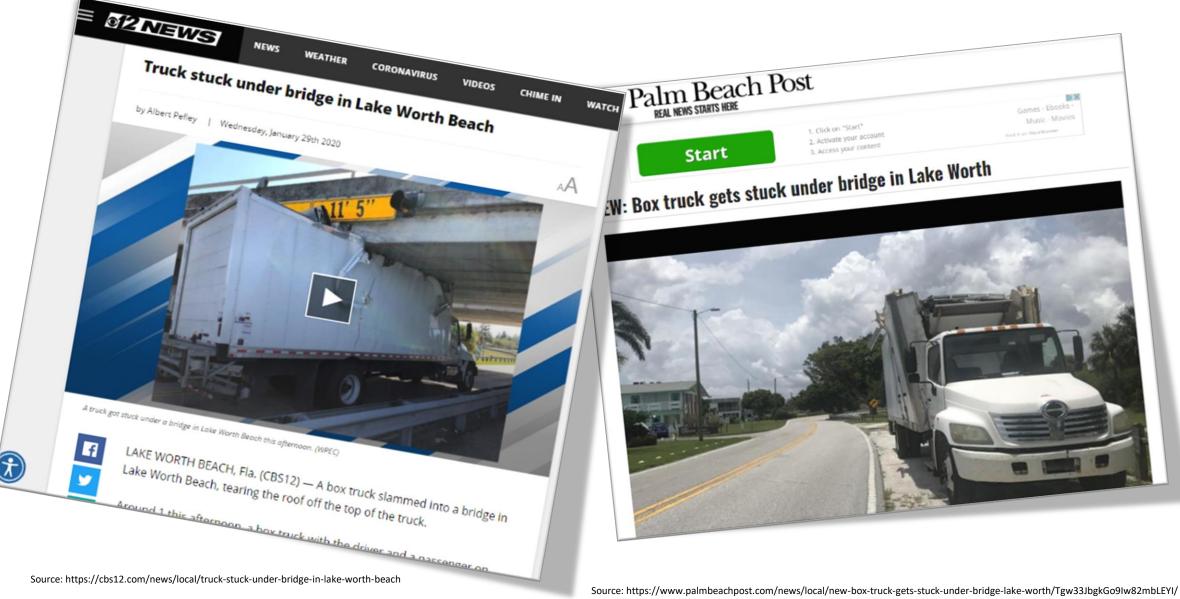
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January 25, 2022
                              Ranger Construction Industries, Inc.
 Department of Engineer
                              101 Sansbury's Way
     and Public Works
                              West Palm Beach, Florida 33411
     P.O. Box 21229
West Palm Beach, PL 33416-1229
      (561) 684-4000
                              SUBJECT: 6th Avenue South Over Lake Osborne Drive
    PAX: (561) 684-4050
                                             Palm Beach County, Florida
     www.pbcgav.com
                                             Project No. 2015508
                                             Notice to Proceed
           .
                              Project Manager:
                              The enclosed executed copy of your contract (Resolution No. R2021-1412)
   Palm Beach County
                              approved by The Board of County Commissioners for construction of the above
     Board of County
                              named Project, together with this letter, will serve as your official "Notice to
     Commissioners
                              Proceed" as of February 14, 2022. Albert W. Hoffman, Director of the
  Robert S. Weineach, Mayor
                             Construction Coordination Division, will be in charge of the work for the County.
  Gregg K. Weiss, Vice Mayor
                              Your continued cooperation in these matters is appreciated.
      Maria G. Matino
       Dave Norrer
                              OFFICE OF THE COUNTY ENGINEER
                               ANDH
       Maria Sache
                                        man
     Meliosa McKinlay
                              Albert W. Hoffman, Director
      Mack Bernard
                              Construction Coordination Division
                              AWH/dd
   County Administrator
                                     Joanne M. Keller, P.E., Deputy County Engineer
                              ec:
     Verdenia C. Baker
                                      Steve Carrier, P.E., Assistant County Engineer
                                      Irwin Jacobowitz, Director, Contract Development & Control
                                     Morton Rose, P.E., Director - Roadway Production
                                     Holly Knight, Roadway Production
                                     Engineering Administrative Services, Accounting
                                      Emergency Management Division
                                     Dana Ackerman-White, Aide to Commissioner Dave Kerner, District 3
                                     David Bernhardt, Aide to Commissioner Dave Kerner, District 3
                                     Travelers Casualty and Surety Company of America w/contract book
                                             Attn: William Phelps
                                             447 Montreal Avenue
     "An Bipol Opportunity
   Afternative Action Simples
                                             Melbourne, Florida 32935
  B printed on sustainable and recycled paper
```

### **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'



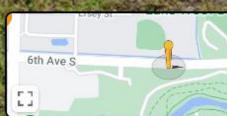
## **Existing Bridge Conditions**

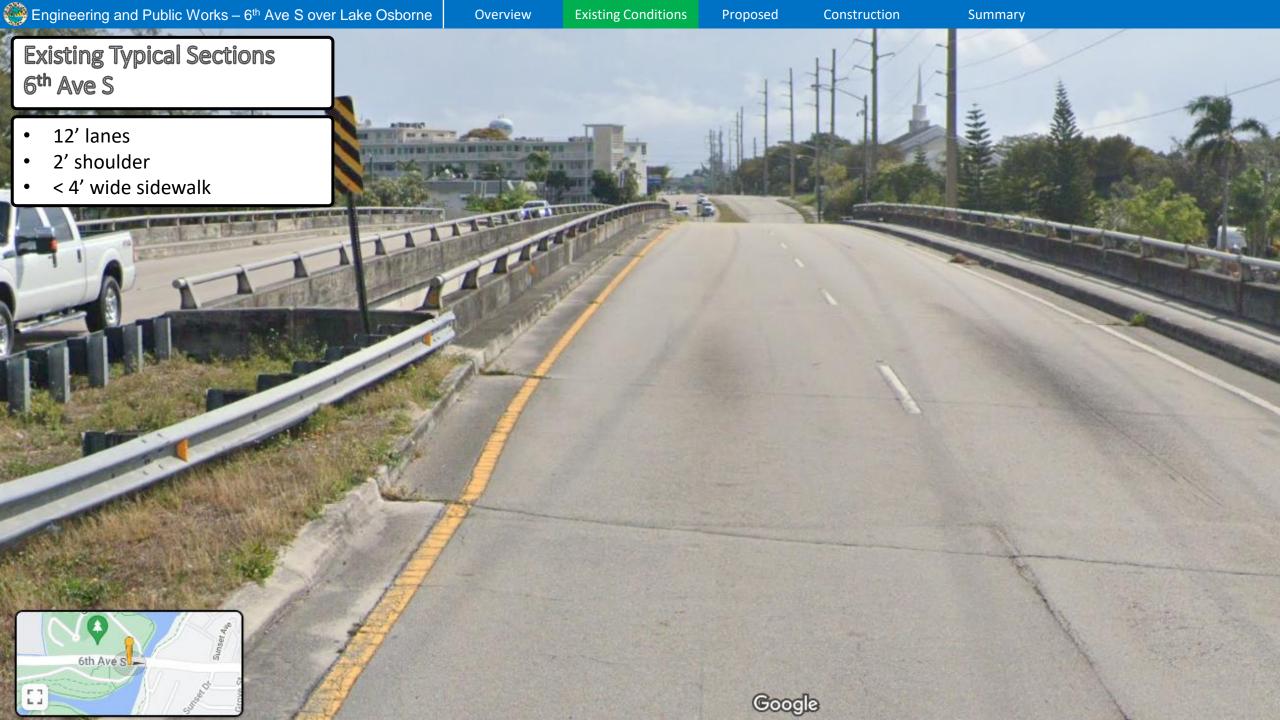


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Existing Typical Sections 6<sup>th</sup> Ave S

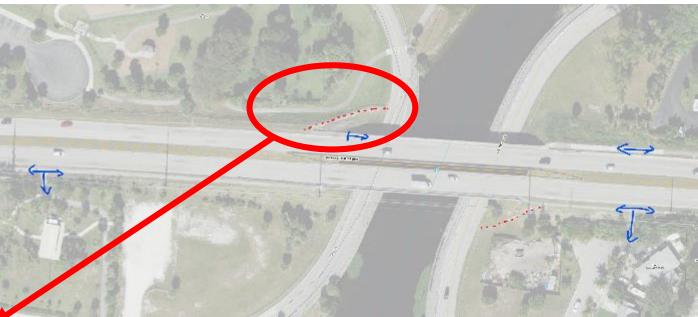
- 12' lanes
- No paved shoulder
- 6' sidewalk (South side only)





### 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





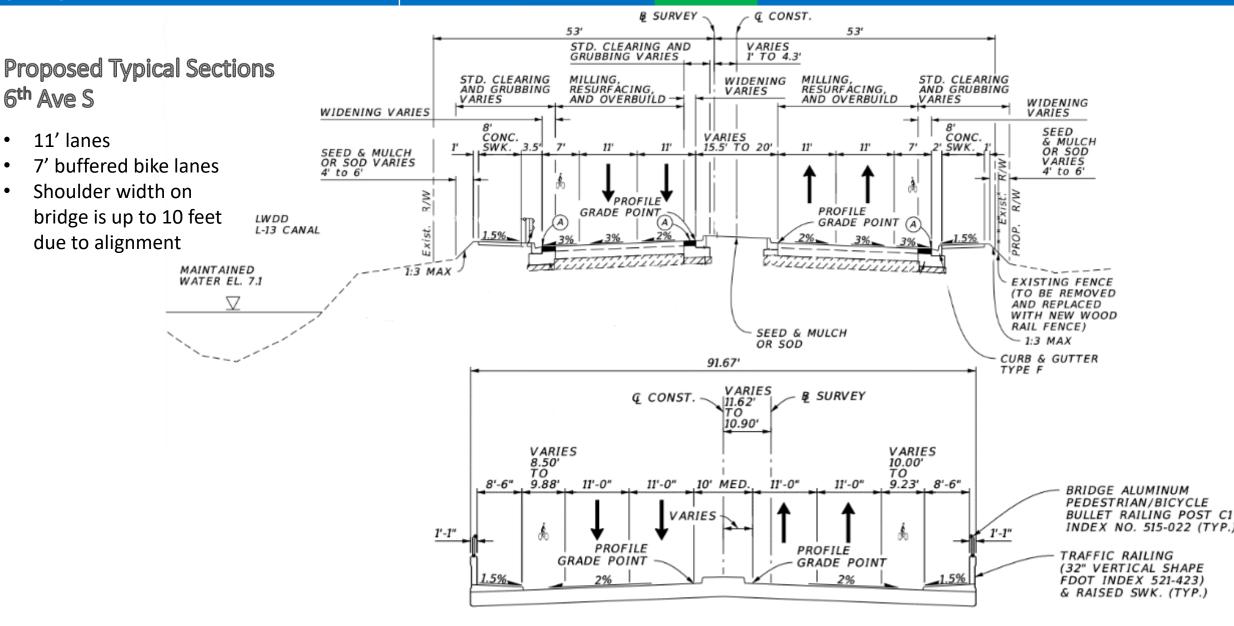
### Objectives

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



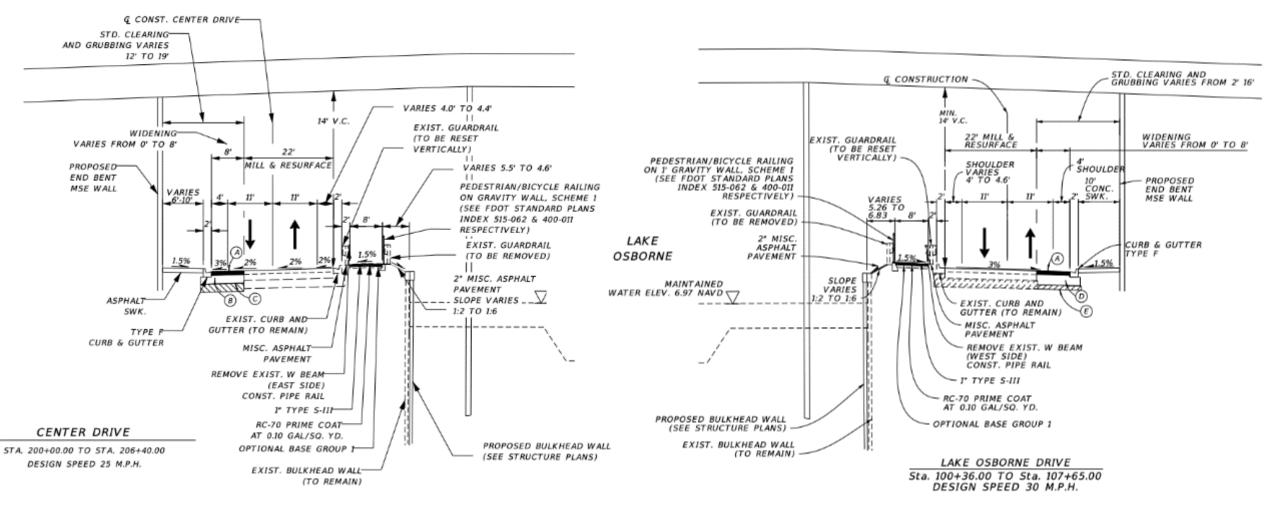
Existing Conditions Proposed

Construction Summary



6TH AVE. SOUTH BRIDGE OVER LAKE OSBORNE CANAL,

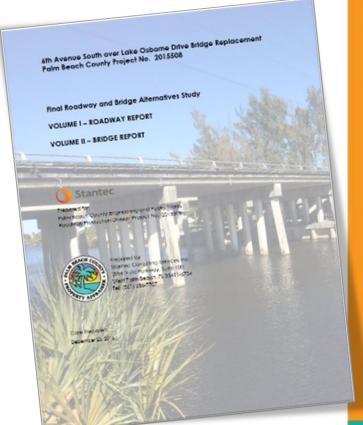
- 11' lanes
- 4' bike lanes
- 8' Pathway along water

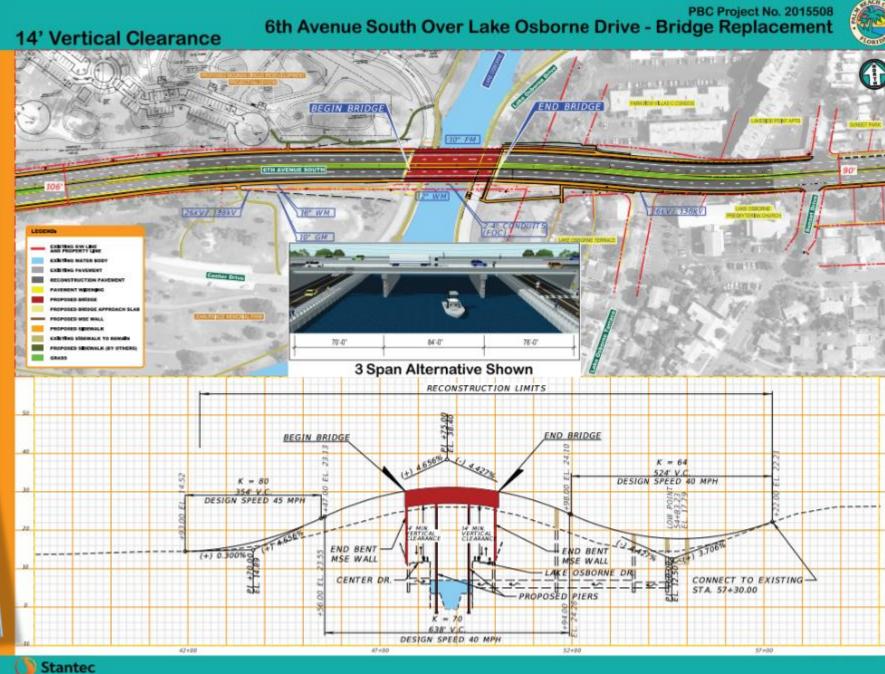




### **Proposed Bridge Profile**

Several alternative bridge ٠ designs were evaluated





PBC Project No. 2015508

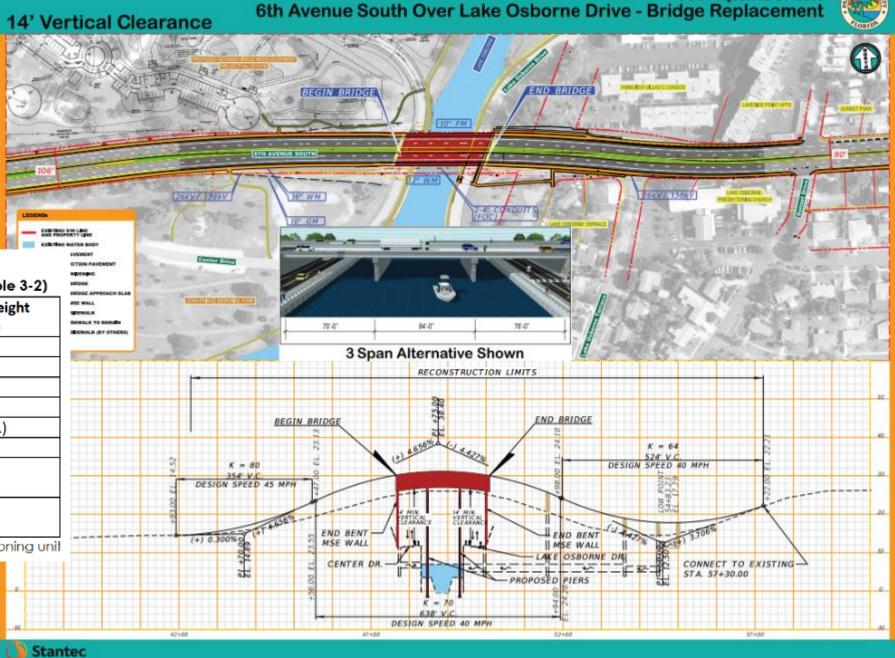
### **Proposed Bridge Profile**

- Several alternative bridge designs were evaluated
- Conclusion: 3 span with 14' clearance over both roadways

Table 6-1 Vehicle Heights by classification (source FGB Table 3-2) Vehicle Type Vehicle Height

venicie rype		(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		13.5
(WB-##)		
Double-Bottom (WBD-67D)		13.5
Semitrailer/Trailer Combination		
(1) vehicle height includes a roof mounted air conditioning u		

vehicle height includes a roof mounted air conditioning unit



1

Bridge alignment shifted slightly north to avoid transmission lines along south side of 6<sup>th</sup> Ave.

10" GM

70'-0"

Center Drive

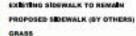




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#### WATER BODY **G PAVEMENT PCTION PAVENENT** AVENENT WIDENING ICPOSED BRIDGE ROPOSED BRIDGE APPROACH SLAB OSED MSE WALL STRAIL R

SETING RW LINE



1000

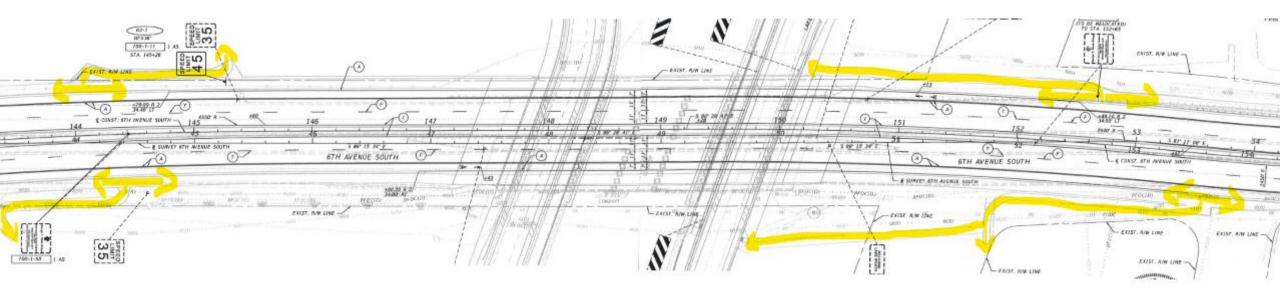
**3 Span Alternative Shown** 

84'-0"

78'-0"

### 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.



6TH/AVE.

1545E

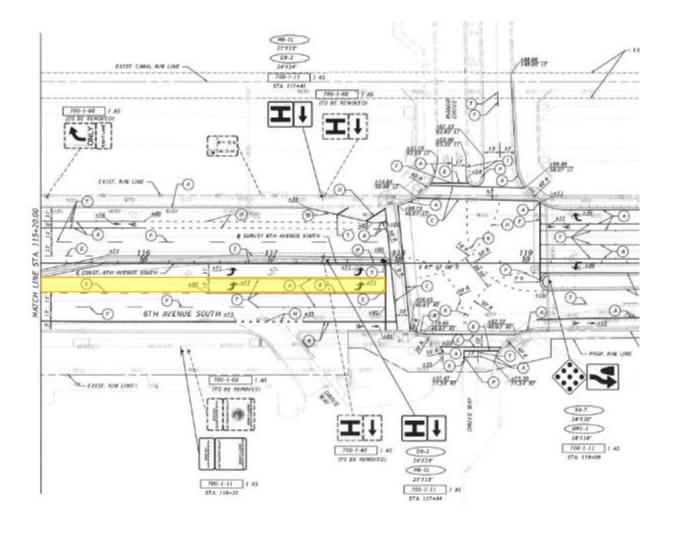
#### Summary

## Bulkhead Wall Replacement

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

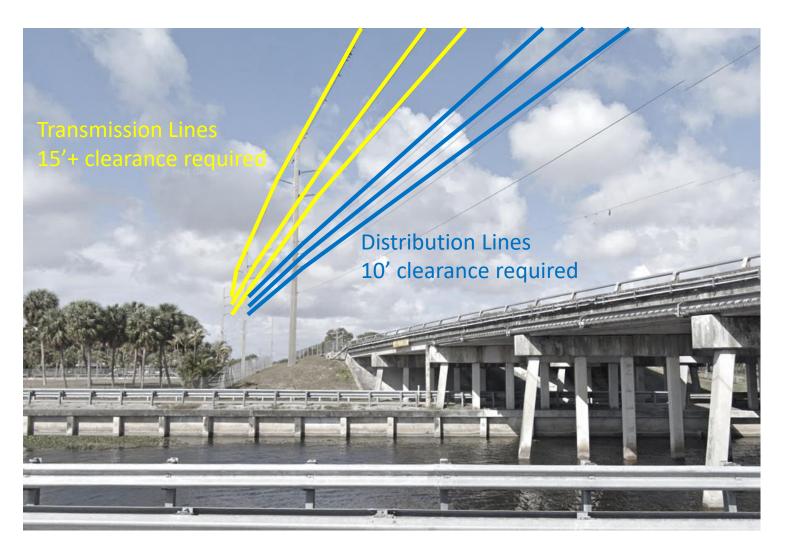


- Construct Second turn lane for Palm Beach State College
- New mast arm signal at intersection for resiliency



# Lake Worth Electric Coordination

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



- 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



