



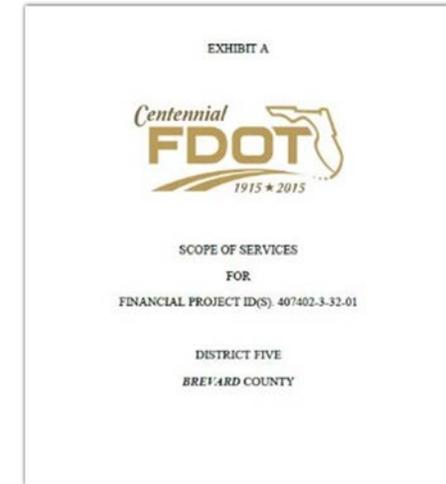
**FROM EAST OF SR 524 (INDUSTRY ROAD) TO EAST OF SR 3  
FROM EAST OF SR 3 TO PORT CANAVERAL INTERCHANGE**



**FMNs:**  
40740233201  
40740243201  
  
Sept. 21, 2016

# DESIGN OBJECTIVES

- Add capacity to SR 528 via Express lanes
- Replace all bridges except EB Indian River Bridge
- Correct deficiencies and safety issues
- Establish additional right-of-way (R/W) needs
- Develop R/W maps
- Engineer a permitable Stormwater Management System

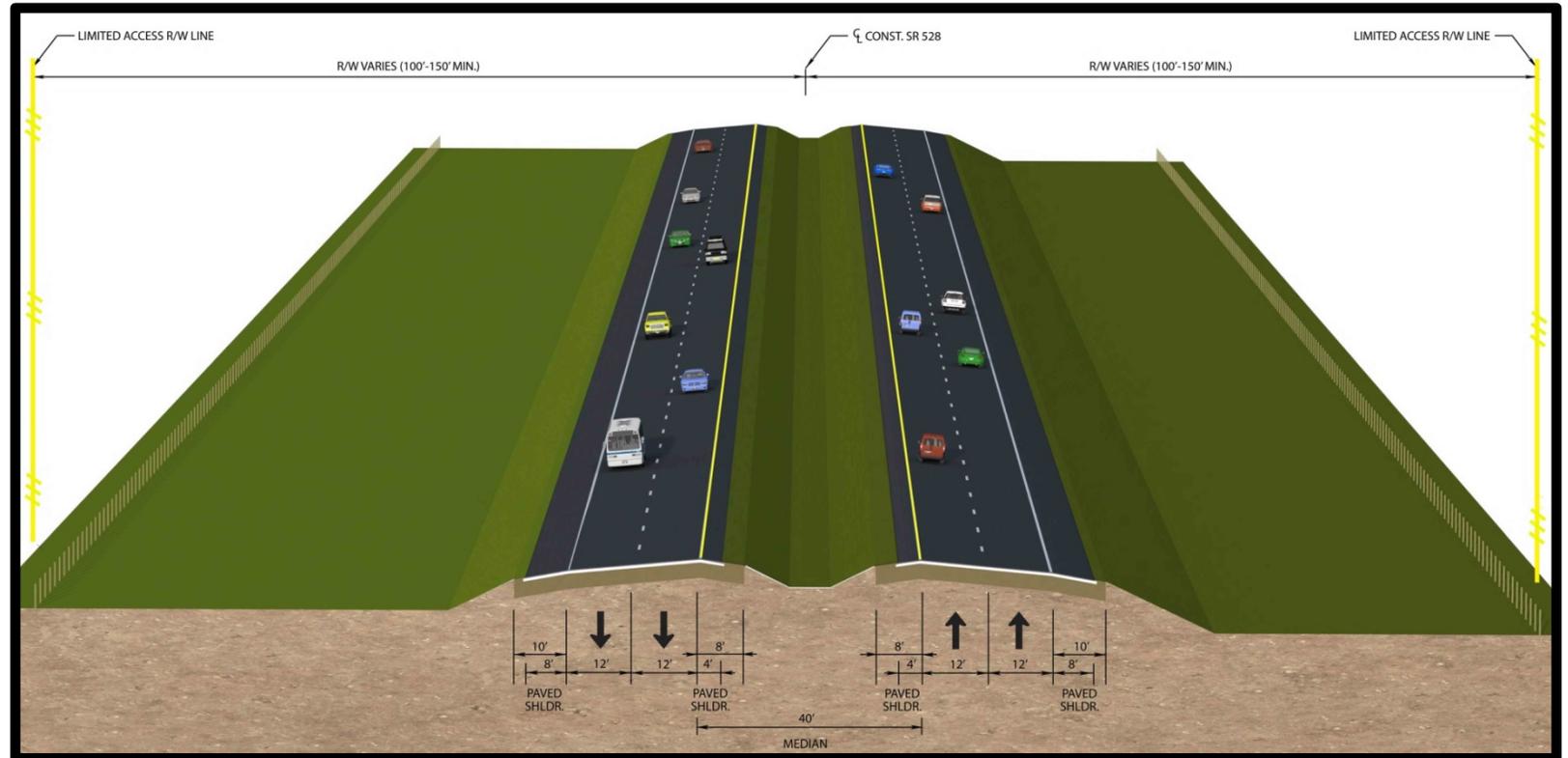


# EXISTING TYPICAL SECTION



## Existing Typical Section

- > 4 Lane Divided Roadway
- > Urban Principal Arterial - Expressway
- > Posted Speed of 60 mph
- > 40 foot Median
- > Paved Inside and Outside Shoulders



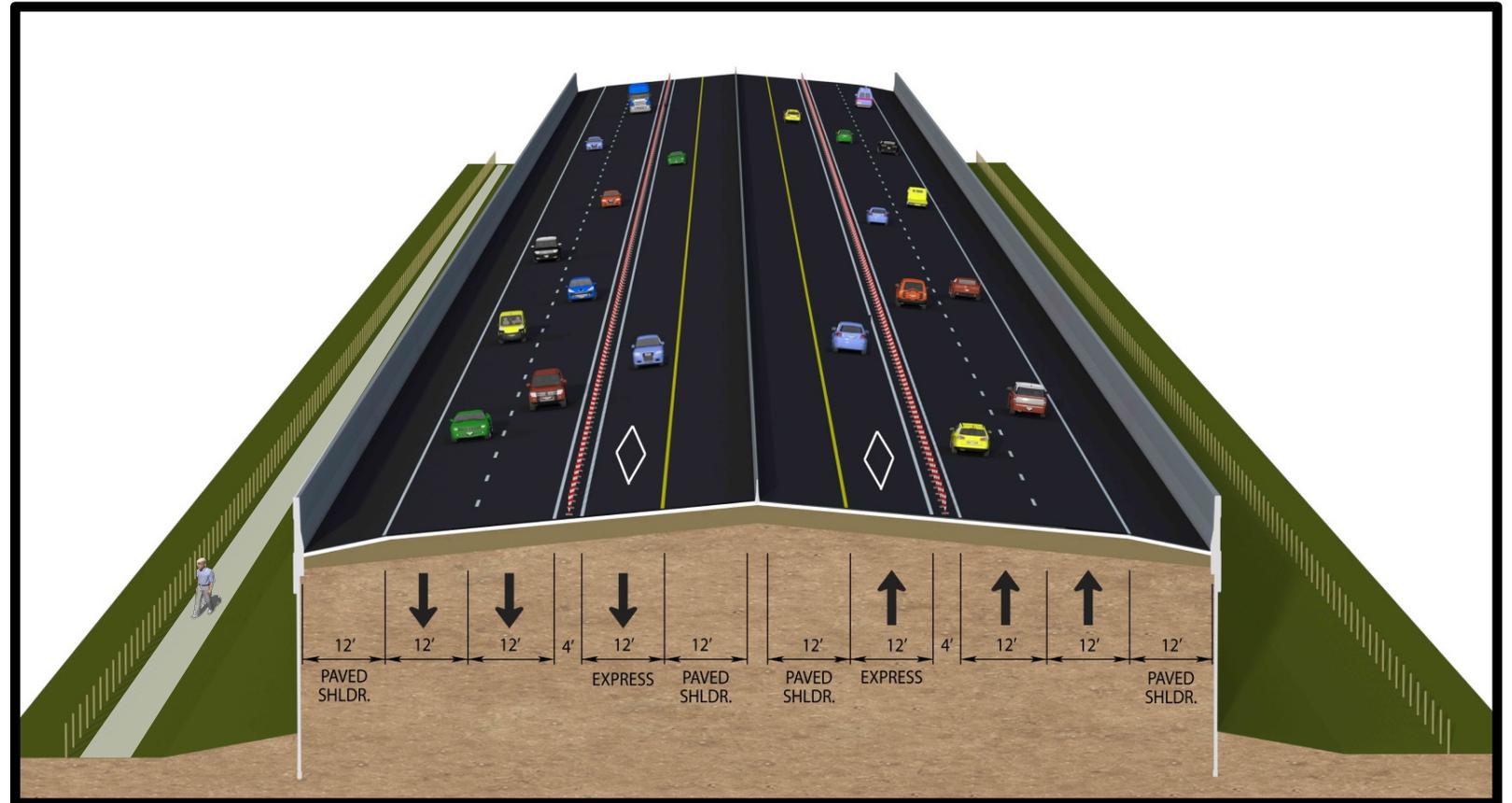
# PROPOSED TYPICAL SECTION



## Proposed Typical Section - Reconstruction

- > Median Barrier
- > 12 Foot Inside Shoulder, 12 Foot Express Lane, and 4' Buffer in Each Direction
- > Two 12 Foot General Use Lanes in Each Direction
- > 10 Foot Paved, 12 Foot Total Outside Shoulders

## A Majority of the Project will Require Reconstruction

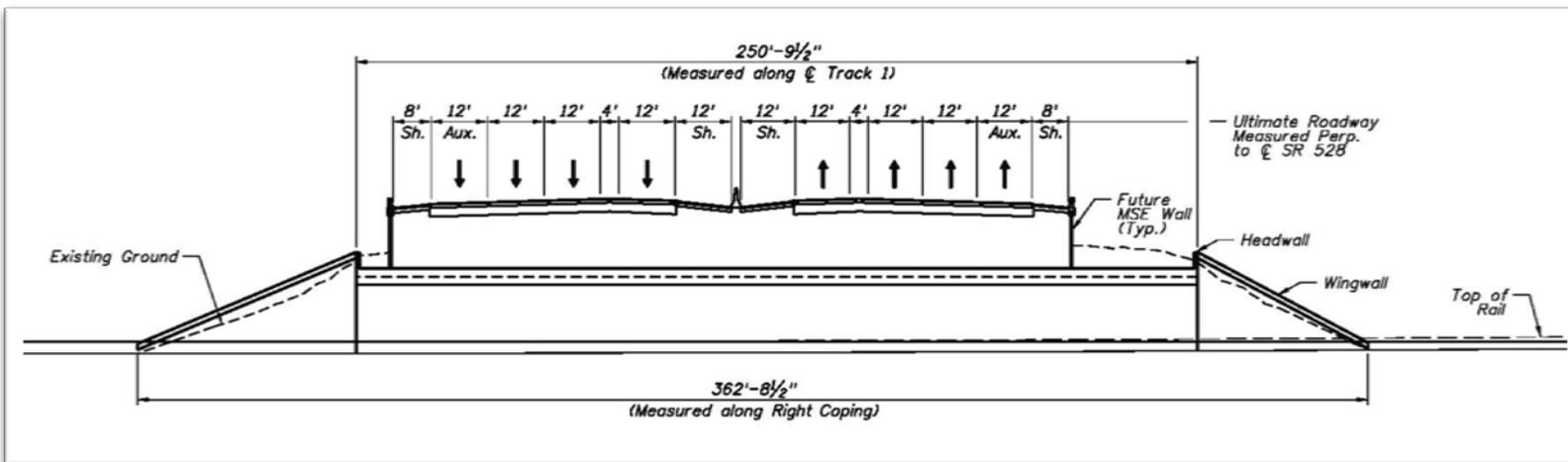


# SR 528 OVER US 1 AND FEC RR



## AAF COORDINATION

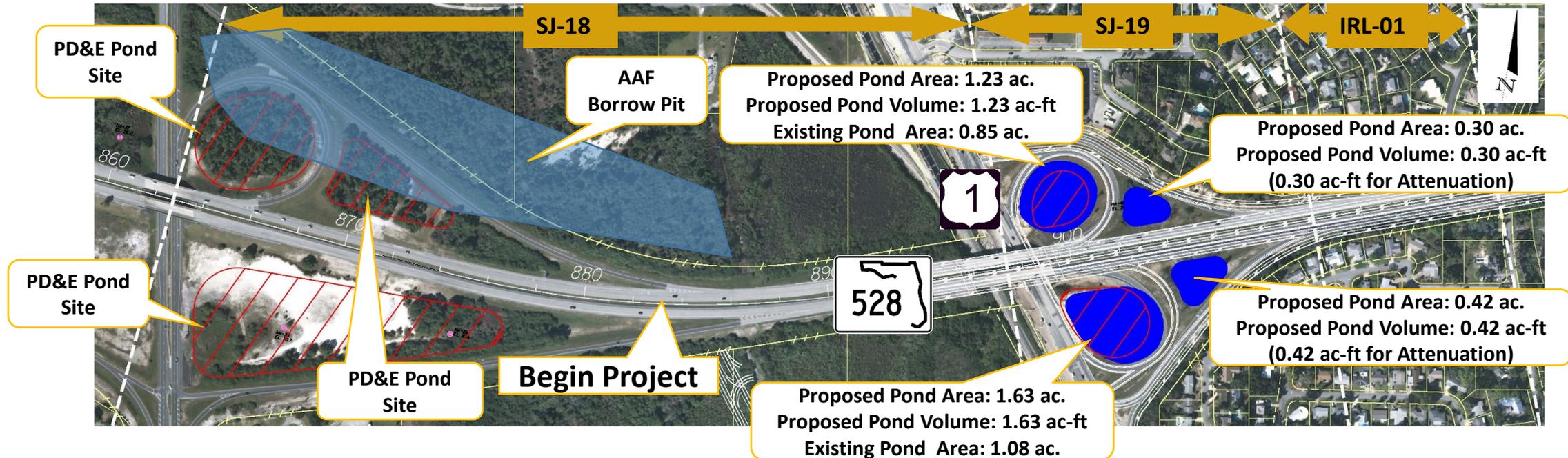
- Current understanding is short tunnel option will be taken to final design
- Final Plans ?
- Construction begins April 2017?



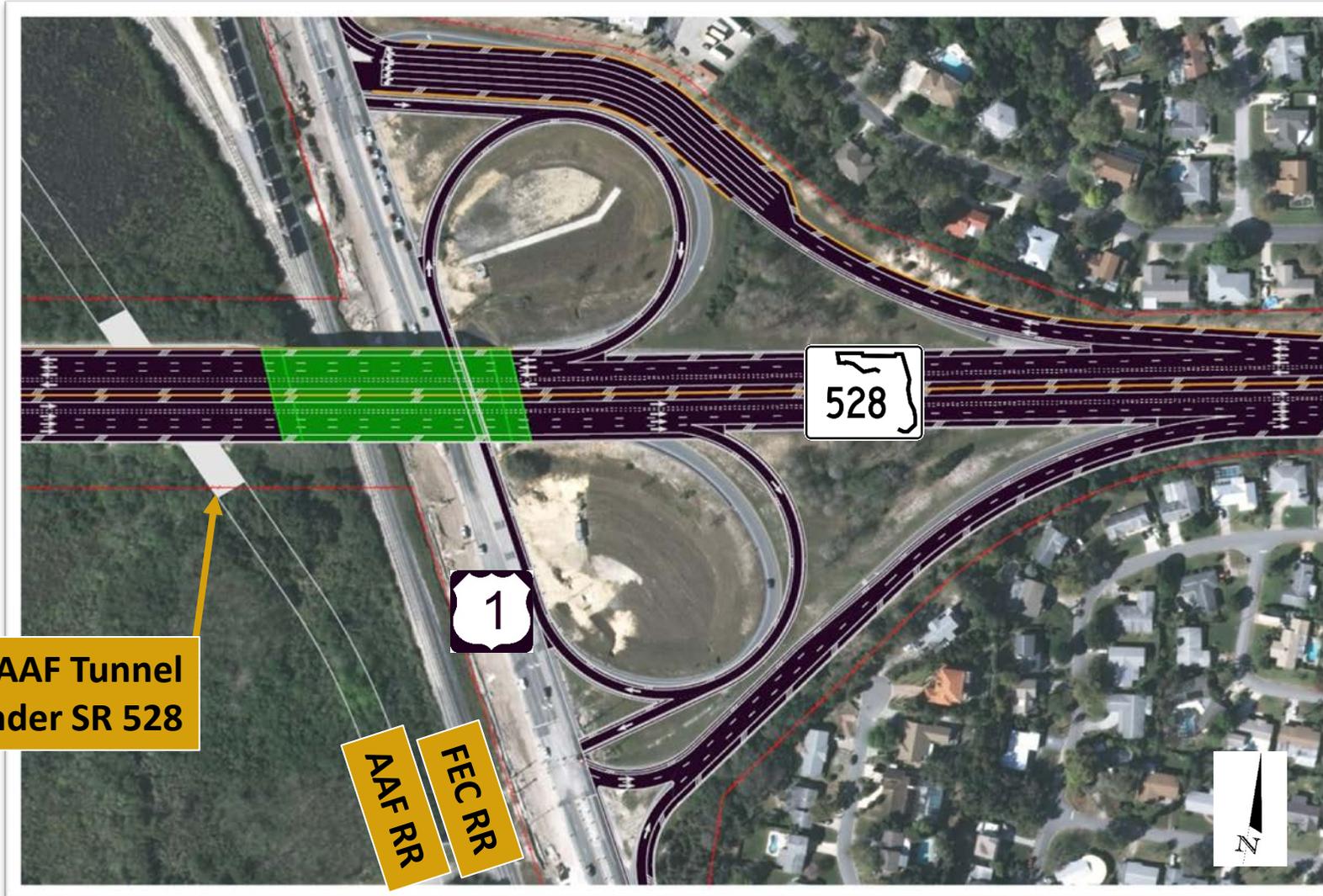
# BASIN SJ-18, SJ-19, AND IRL-01



- ⚡ Consider AAF Borrow Pit
- ⚡ Treat Full Reconstruction in SJ-19 (0.47 ac-ft Required)
- ⚡ Enlarge Existing Infield Ponds and Add New Infield Ponds (1.65 ac-ft Provided)
  - > Accommodates IRL-01 (0.14 ac-ft)
  - > Provides attenuation



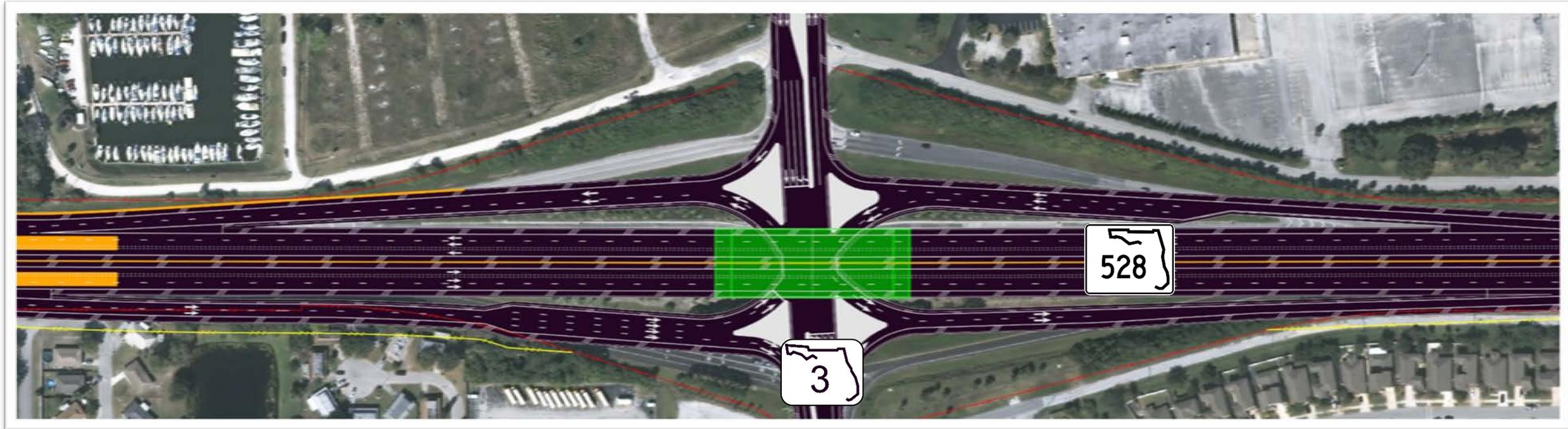
# SR 5 (US 1) INTERCHANGE IMPROVEMENTS



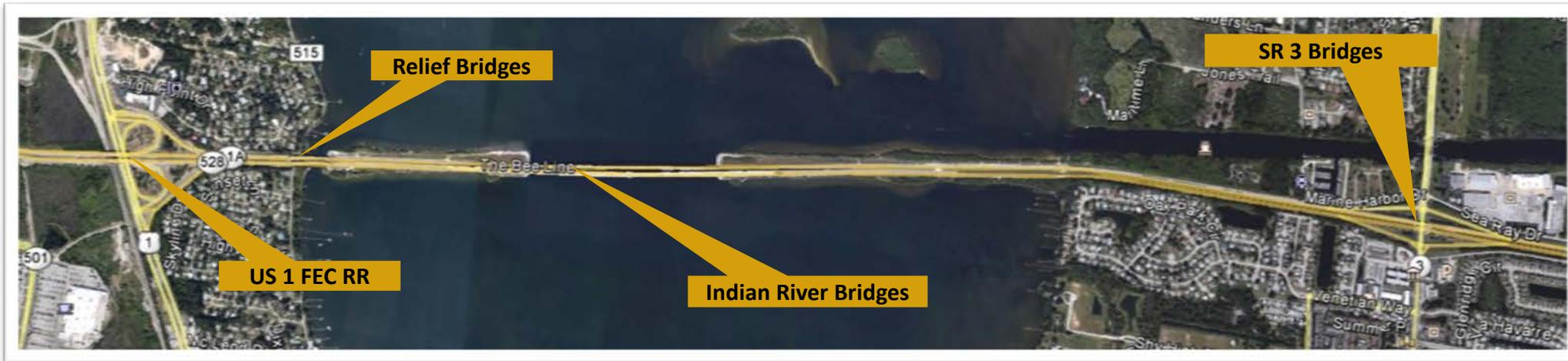
Proposed AAF Tunnel  
under SR 528

# SR 3 INTERCHANGE IMPROVEMENTS

SPUI



# STRUCTURES (FPN: 407402-3-32-01)



**SR 528 WB over Indian River (KCA)**  
> Substructure repairs  
> Painting

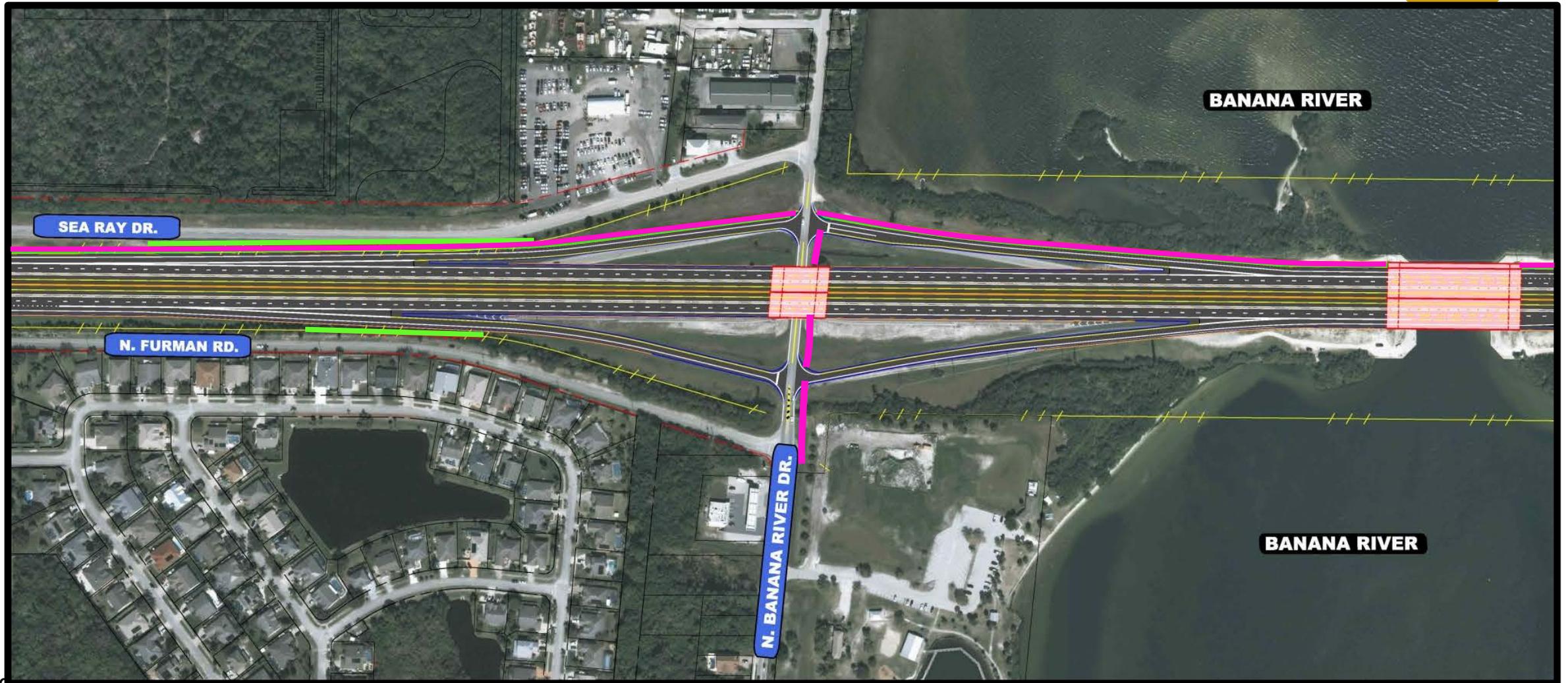


**SR 528 EB over Indian River (KCA)**  
> New high-level bridge  
>



**SR 528 EB over SR 3**  
> Emergency response to tanker fire  
> Reopened after 24 days

# BANANA RIVER DRIVE INTERCHANGE



# SR 401 & PORT CANAVERAL INTERCHANGES



# ENVIRONMENTAL – WILDLIFE AND WETLANDS



## 📍 Seagrass and Mangroves

### > Little Seagrass and Mangroves around Causeways

- Hardened shorelines, scour, depth limit suitable habitat

### > Mangroves along causeways

## 📍 Wildlife and Habitat Impacts

### > Seagrass – No impacts anticipated

- Water quality is the KEY
- Improve water quality = natural recruitment of seagrass



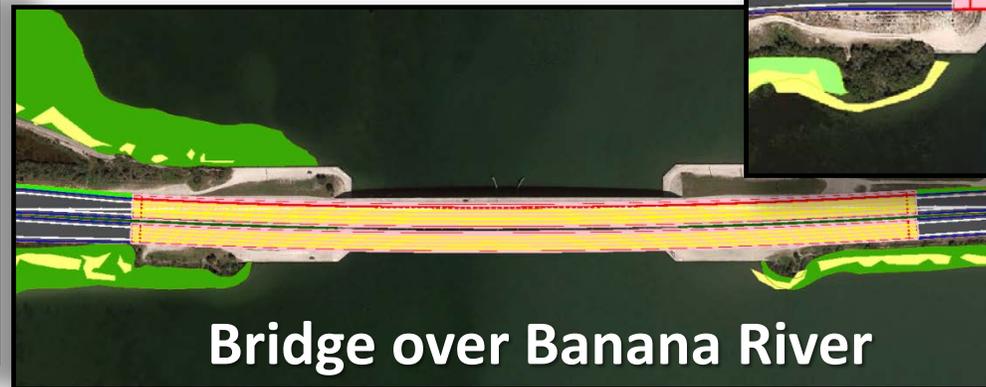
Bridge over Indian River Relief



Bridge over Banana River Relief



Bridge over Indian River



Bridge over Banana River

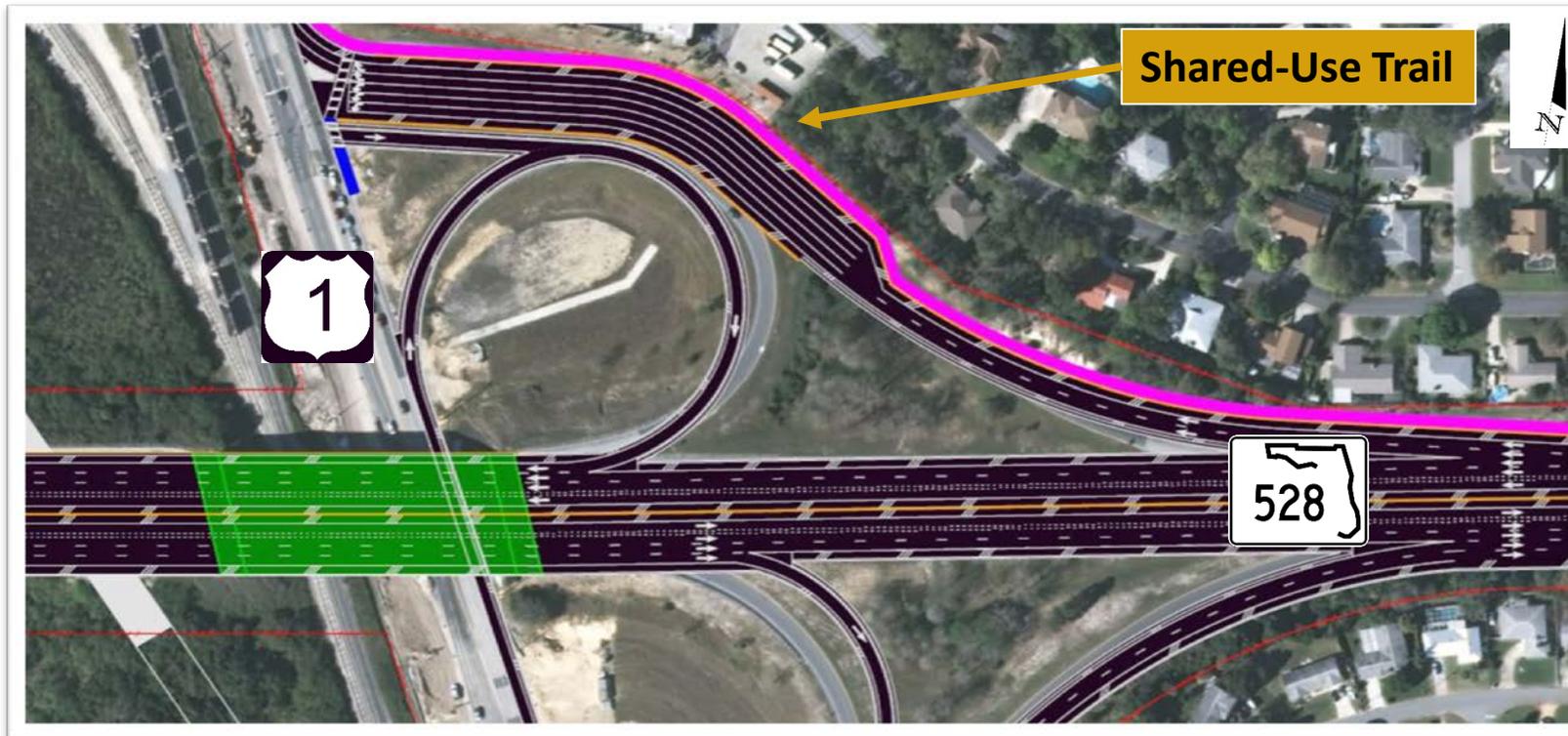
# INDIAN AND BANANA RIVER CAUSEWAY



# TRAIL AT SR 5 (US 1)



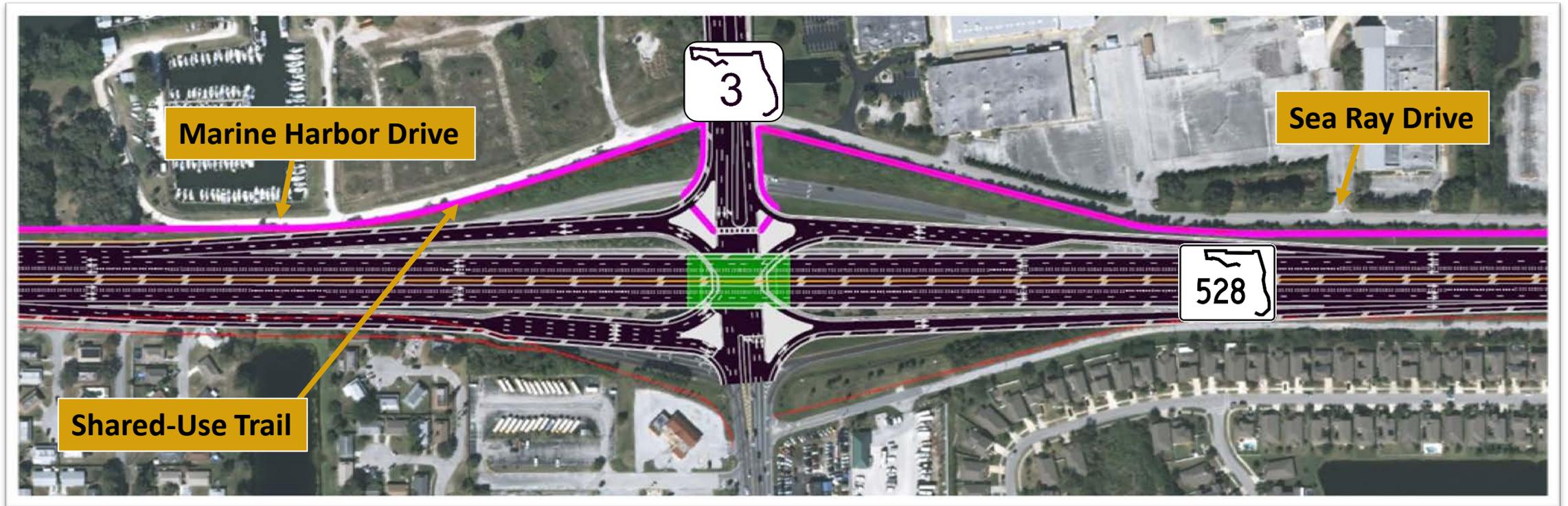
- ⚠ US 1 is part of East Coast Greenway Trail corridor
- ⚠ Barrier separation between trail and WB exit ramp
- ⚠ Trail proposed on north side of SR 528, at least over Indian River



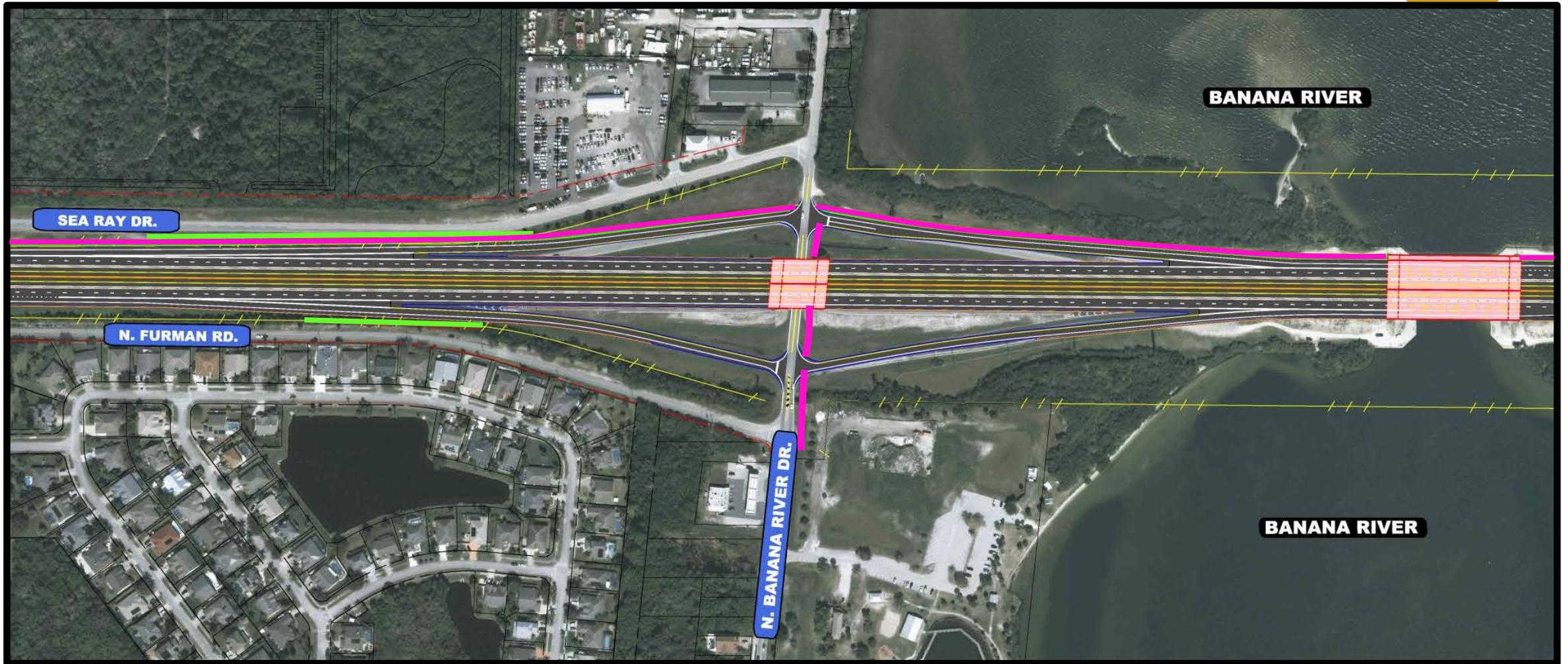
# TRAIL AT SR 3



- ⚠️ Trail to cross SR 3 at-grade and then possibly shift to Sea Ray Drive R/W
- ⚠️ Provides future connectivity to North Merritt Island Pioneer Trail



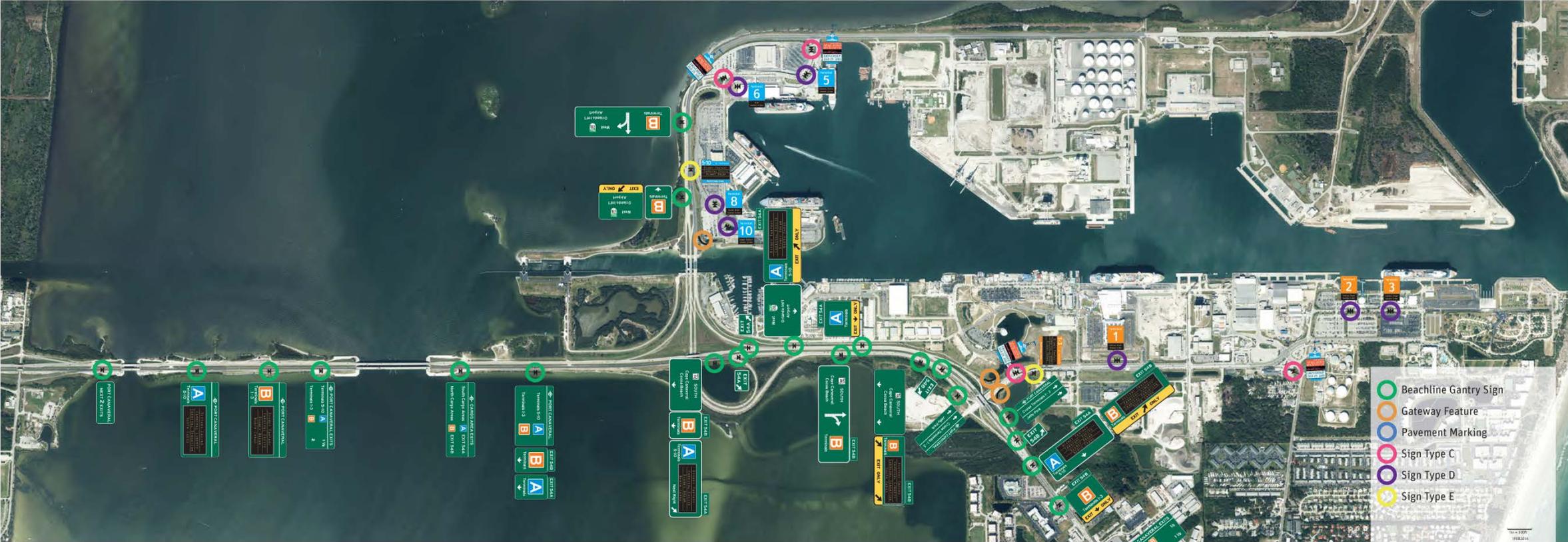
# TRAIL AT BANANA RIVER DRIVE



# TRAIL AT SR 401



# PORT CANAVERAL WAYFINDING MASTER PLAN



# PORT CANAVERAL FREIGHT RAIL



## Canaveral Port Authority

### > Requires Close Coordination

- Port Canaveral Rail Extension
  - ▶ Connects Cargo Area to FEC Line along US 1
  - ▶ Multiple Routes Considered including SR 528 Corridor
  - ▶ Current Focus is on Options A (Red) and B (Green)

