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

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

- **Relief Bridges**
- **SR 3 Bridges**
- **US 1 FEC RR**
- **Indian River Bridges**

**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
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
INDIAN AND BANANA RIVER CAUSEWAY

[Diagram showing the Indian and Banana River Causeway with various road segments labeled: AUX TO BANANA RIVER DR., 530' DECEL, 300' TAPER, 100' TAPER, 530' DECEL, 1200' ACCEL, and 300' TAPER.]
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 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

Marine Harbor Drive

Shared-Use Trail

Sea Ray Drive
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)