



## SOUTH FLORIDA ECOSYSTEM RESTORATION TASK FORCE

LEADERSHIP • PARTNERSHIP • RESULTS

# Tamiami Trail Next Steps and Osceola Camp Task Force Meeting April 25, 2024

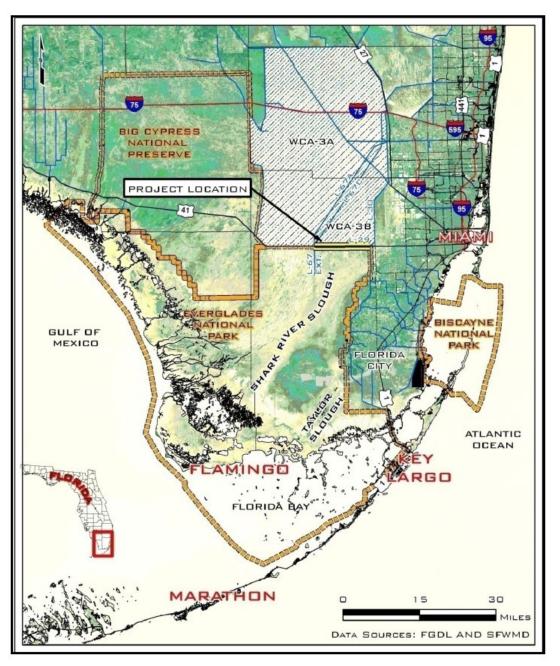


U.S. Department of Transportation Federal Highway Administration



Robert Johnson Office of Everglades Restoration Initiatives

RESTORING AMERICA'S EVERGLADES



### The Tamiami Trail Next Steps Project and the Miccosukee Osceola Camp

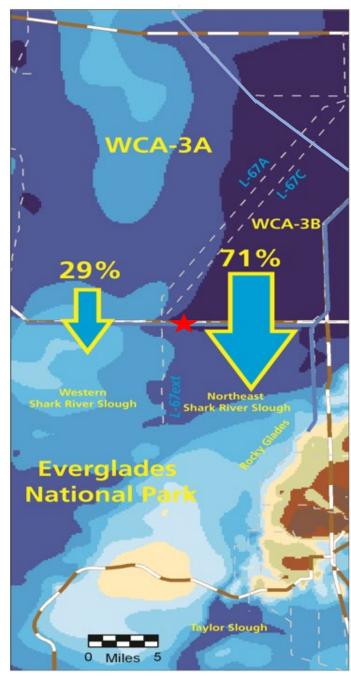
### **Bottom Line Up Front:**

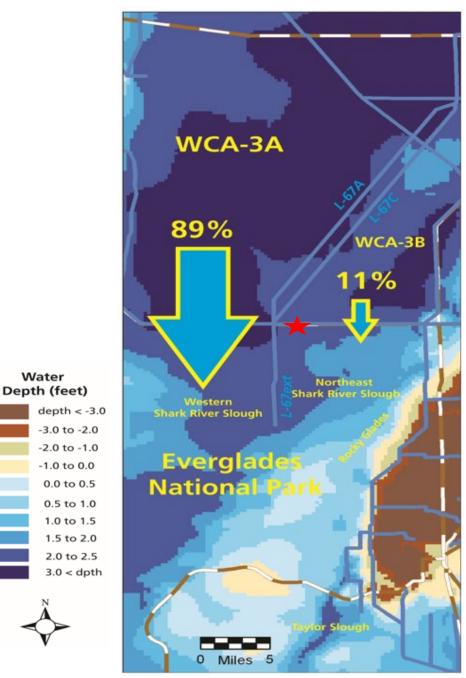
- Tamiami Trail (US-41) was completed in 1928 with limited bridging. Portions of the eastern roadway are low and impede natural water flows to the south.
- The Central Everglades are enclosed by levees, to retain wet season runoff and enhance dry season water supply.
- Water ponding in the southern Miccosukee Water Conservation Area (WCA) 3A harms the natural ecology.
- The historic flow path through WCA-3B and Northeast Shark River Slough is cut off by internal WCA-3 levees.
- The Miccosukee Osceola Camp experiences persistent flooding during large rainfall/flow events.

### Solutions:

- Raise/bridge eastern Tamiami Trail (TTNS) and provide flood protection for the Miccosukee Osceola Camp.
- Reduce ponding in the Miccosukee WCA-3A by degrading levees to re-open the eastern flow path (CEPP South).

Source: ENP Tamiami Trail Modifications: Next Steps, Final EIS, 2010





Water

### **Changing Water Depths** and Flow Distributions in the Southern Everglades

**BEFORE – Water Conservation Areas and Miami-Dade Drainage** 

- Water depths and flows in the southern Everglades followed the historic topography along an eastern flow path.
- Western Miami-Dade lacked drainage and was seasonally flooded.

**AFTER - Water Conservation Areas and Miami-Dade Drainage** 

- Water depths and flows in the southern Everglades no longer follow the historic topography and were shifted westward
- Western Miami-Dade received drainage and flooding was diminished.
- Miccosukee Osceola Camp



Data Sources: USACE & USGS

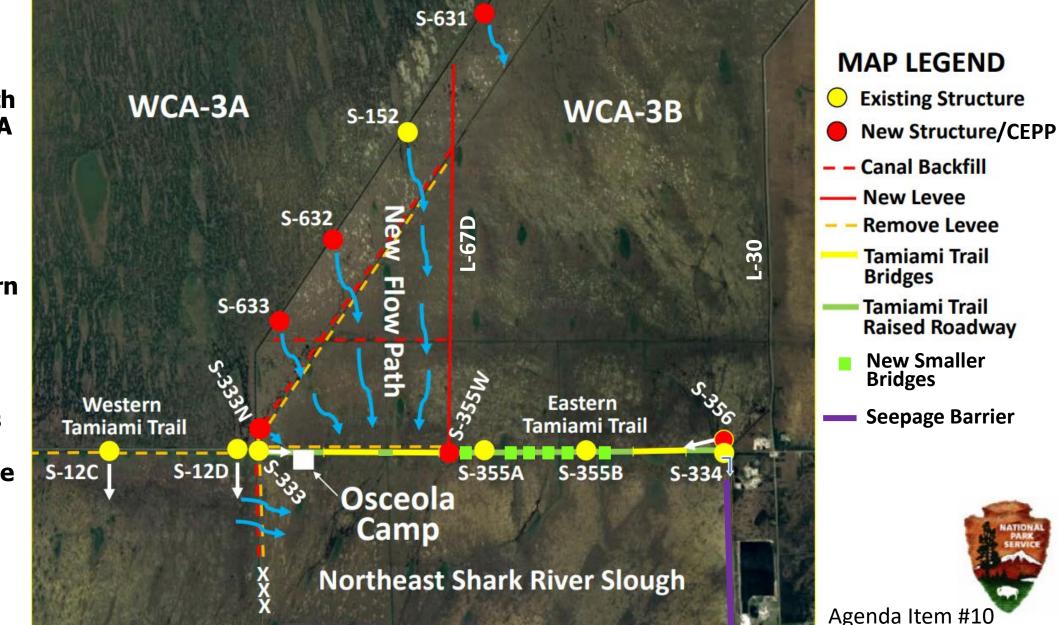
Wet Season 1959

Wet Season 2005

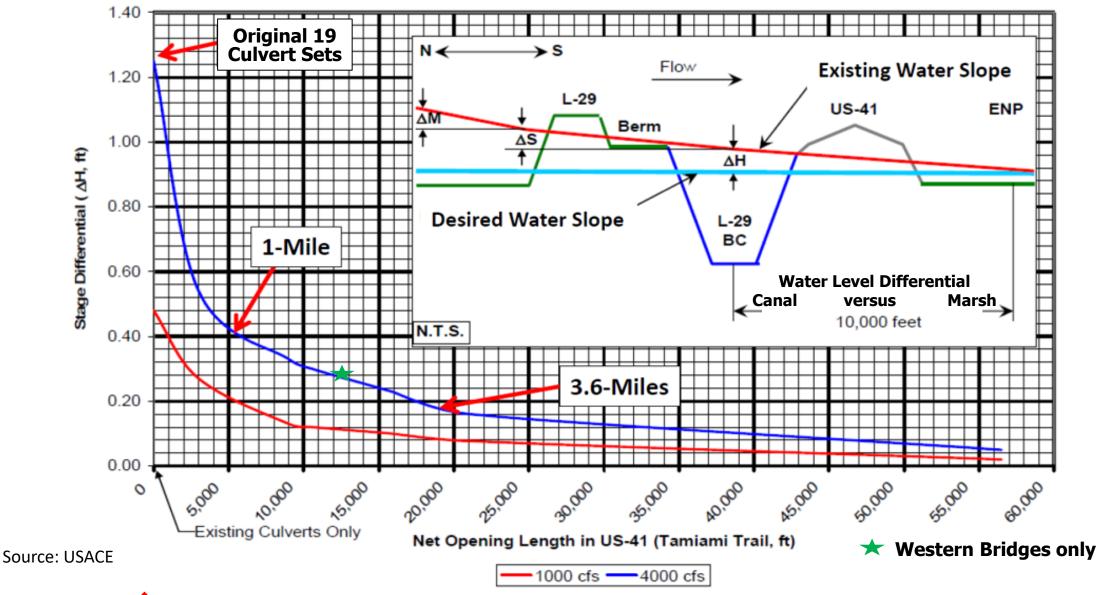
## The Central Everglades South Flow-way is Aligned with Tamiami Trail Bridges and the Osceola Camp

The new CEPP South flow path directs WCA-3A outflows into Northeast Shark River Slough via the degraded L-29 levee & western bridges.

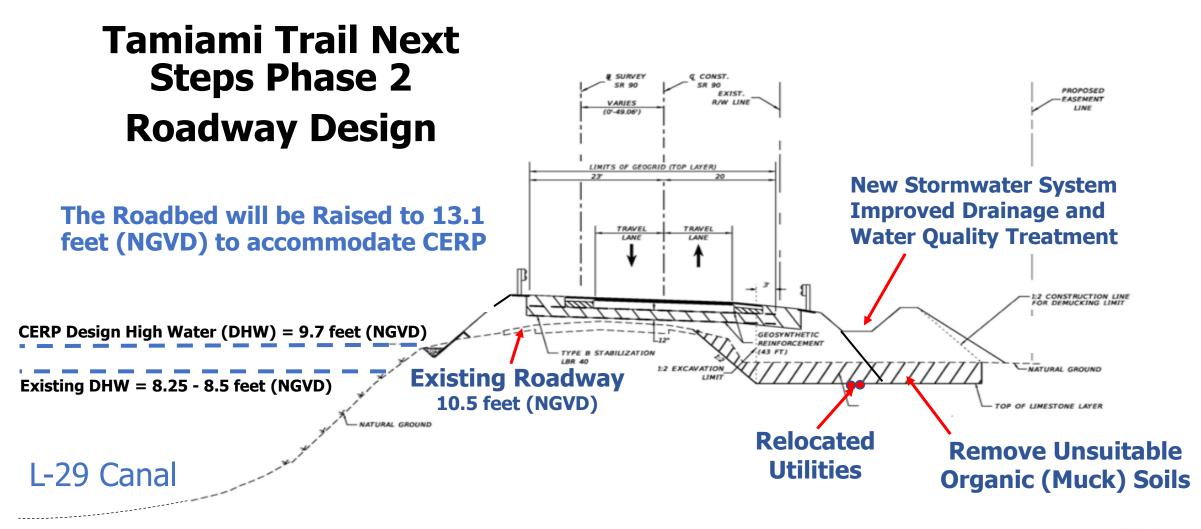
These changes increase the flood risk at the Osceola Camp.



## **Bridging the Eastern Tamiami Trail Roadway Lowers Flood Risks**



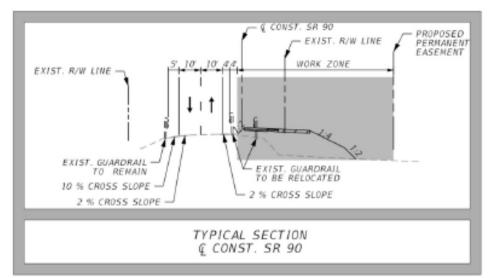
Adding bridges allows water managers to pass higher flows at lower canal \*\* stages, greatly reducing the flood risk to adjacent developed areas. Agenda Item #10



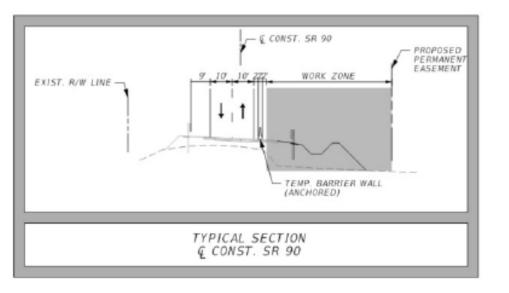
The roadway will be raised to prevent higher L-29 Canal stages from degrading the sub-base, which damages the structural asphalt paving.

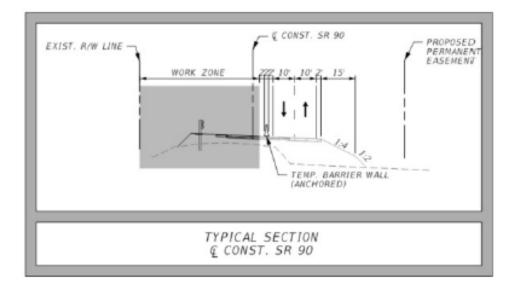


### **Tamiami Trail Next Steps Phase 2 – Construction Sequencing**

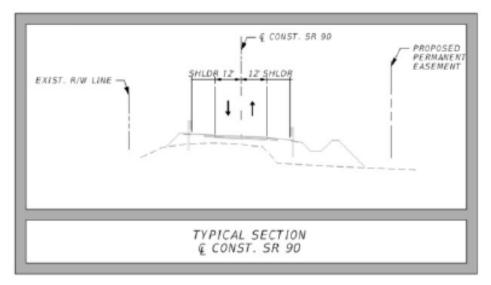


#### Phase 1 - Move Traffic North & Rebuild Eastbound Lanes





## Phase 2 - Move Traffic South & Rebuild Westbound Lanes

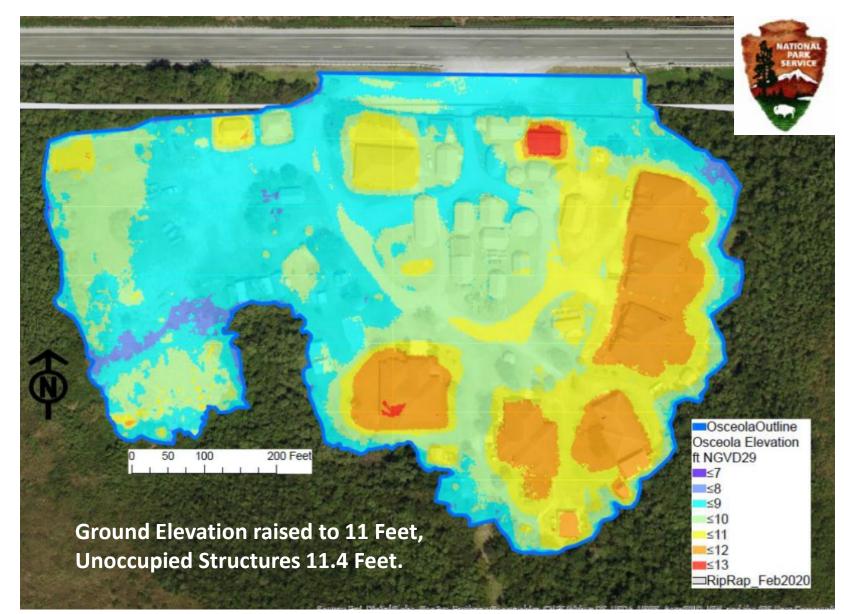


Phase 3 – Build Stormwater System & Final Roadway Configuration

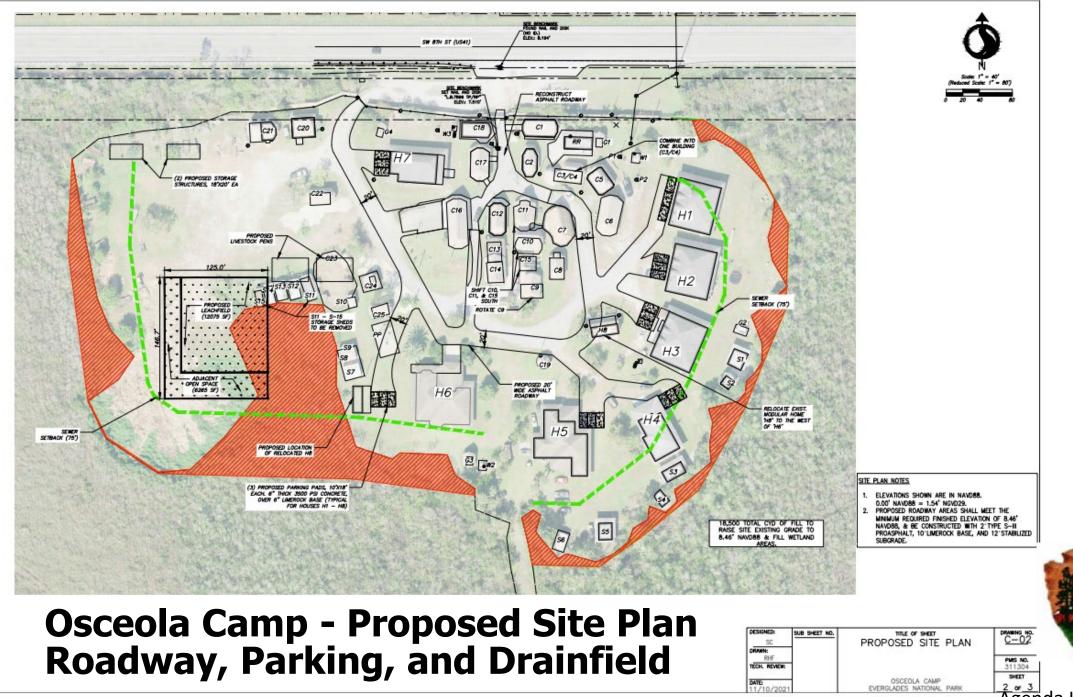
#### Agenda Item #10

## **Osceola Camp Flood Protection Cures Plan**

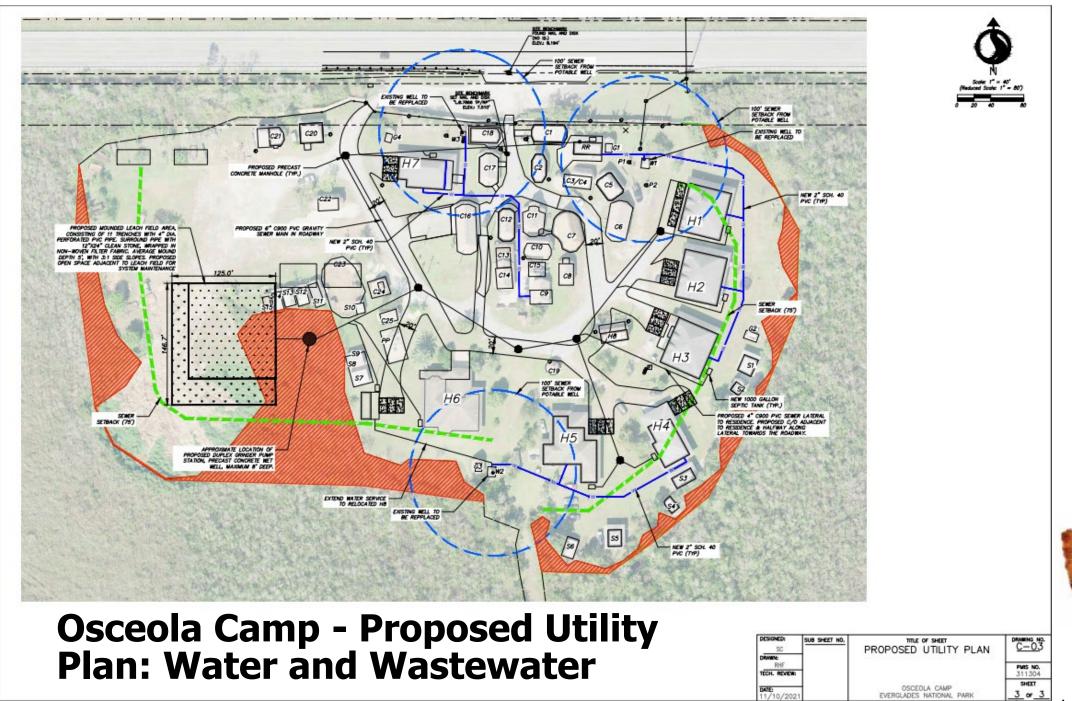
- CEPP South's planned increase in L-29 Canal water levels will adversely impact the Miccosukee Osceola Camp.
- The NPS completed the Osceola Camp Flood Protection Cures Plan in December 2021. The Camp's ground surface and un-occupied structures will be raised to meet USACE required elevations.
- The NPS completed a Schematic Design in April 2023, NEPA compliance in April 2024, and a Detailed Design is expected by Nov. 2024.
- The Cures Plan construction will take 12-18 months at an estimated cost of ~ \$8 Million, to be funded through a proposed Federal/State partnership.



#### Agenda Item #10

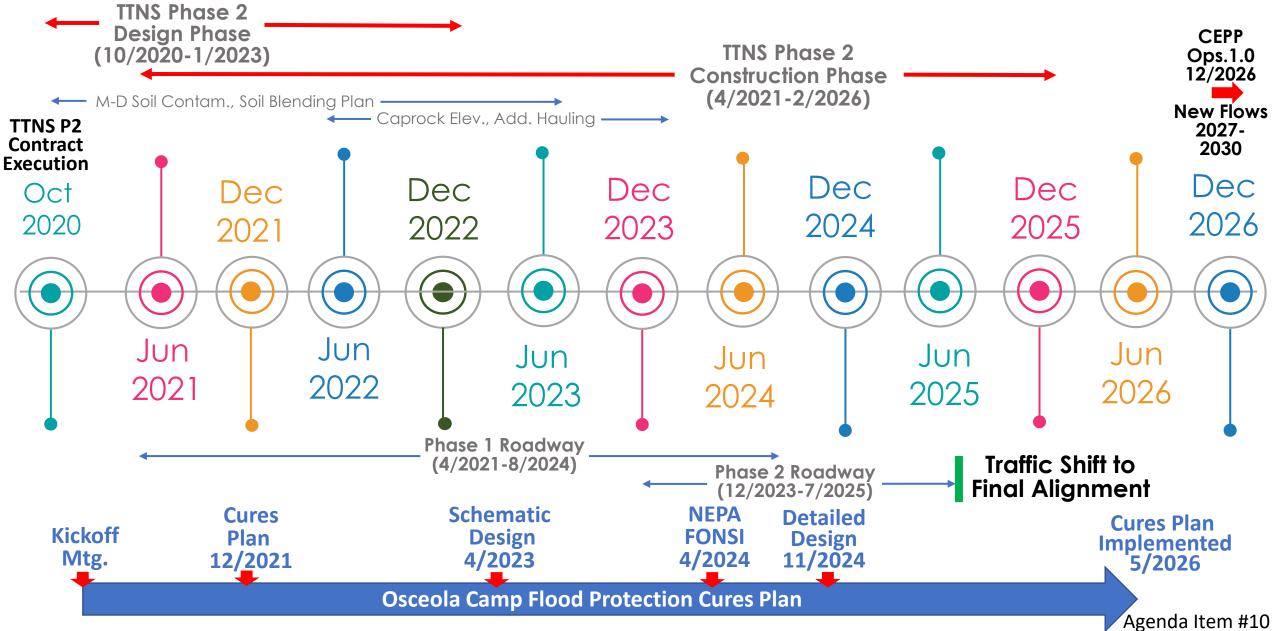


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Agenda Item #10

## Projected Timeline – Tamiami Trail Next Steps Phase 2 Osceola Camp Flood Protection Cures Plan



## Discussion

## Robert Johnson

