



SOUTH FLORIDA ECOSYSTEM RESTORATION TASK FORCE

LEADERSHIP • PARTNERSHIP • RESULTS

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

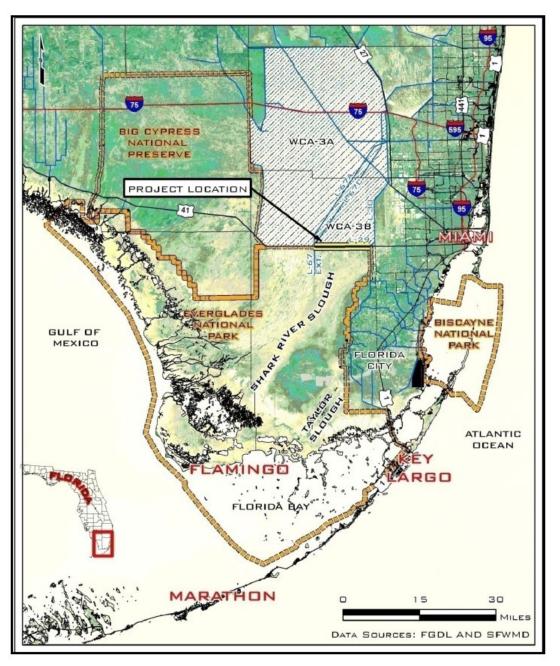


U.S. Department of Transportation Federal Highway Administration



Robert Johnson Office of Everglades Restoration Initiatives

RESTORING AMERICA'S EVERGLADES



The Tamiami Trail Next Steps Project and the Miccosukee Osceola Camp

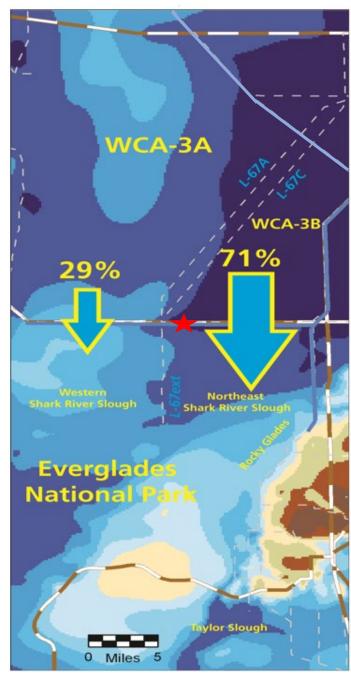
Bottom Line Up Front:

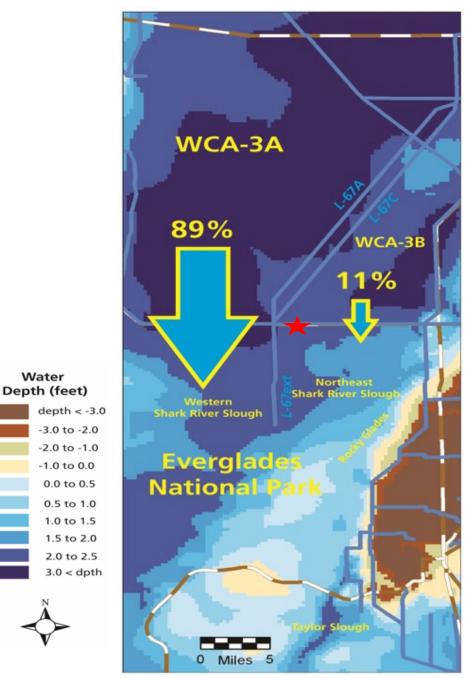
- Tamiami Trail (US-41) was completed in 1928 with limited bridging. Portions of the eastern roadway are low and impede natural water flows to the south.
- The Central Everglades are enclosed by levees, to retain wet season runoff and enhance dry season water supply.
- Water ponding in the southern Miccosukee 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

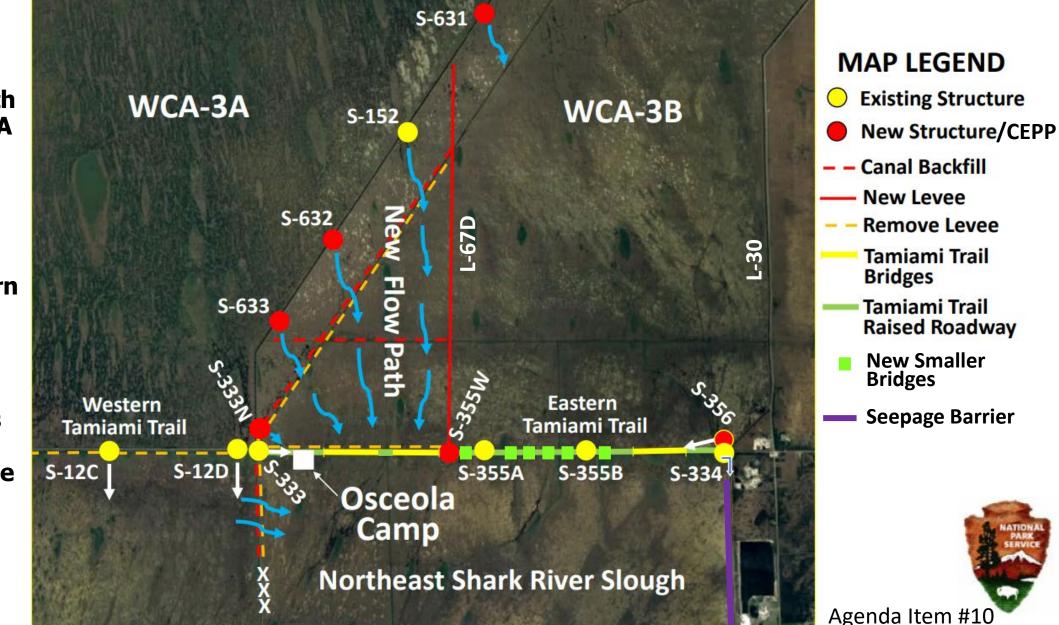
Wet Season 1959

Wet Season 2005

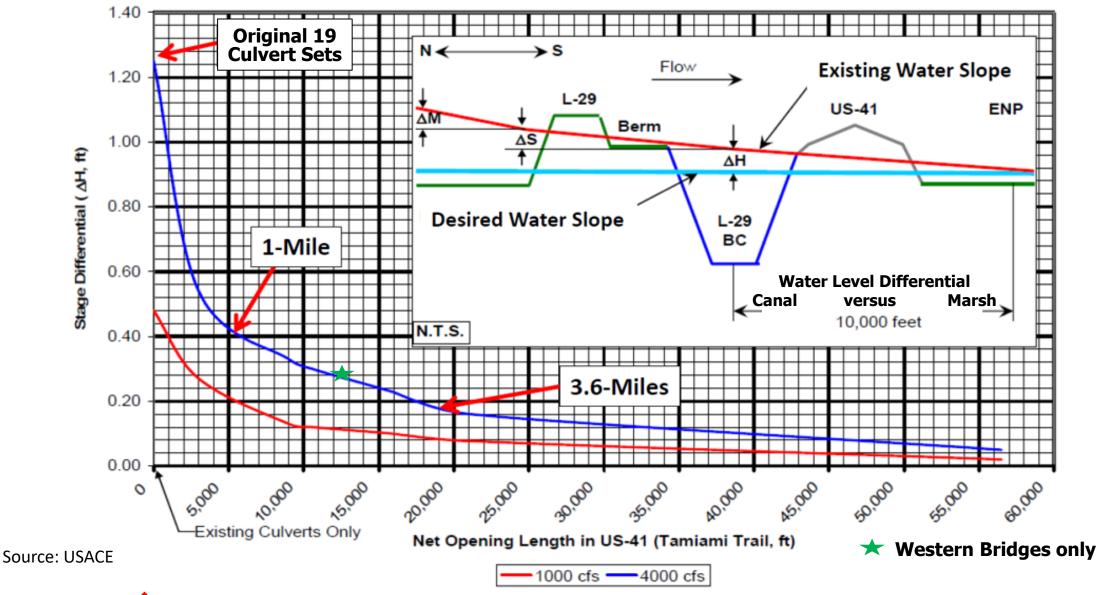
The Central Everglades South Flow-way is Aligned with Tamiami Trail Bridges and the Osceola Camp

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

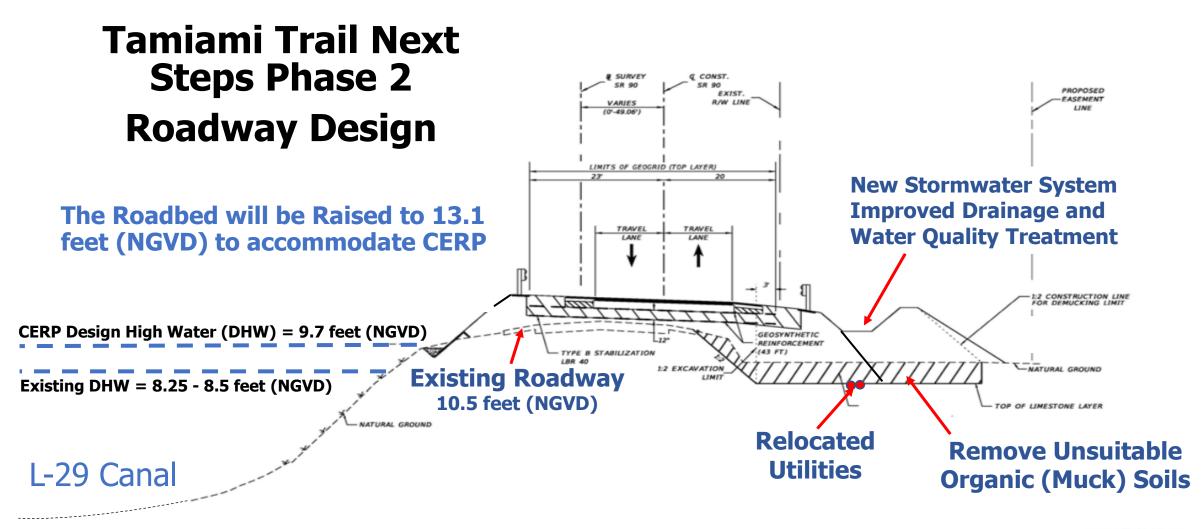
These changes increase the flood risk at the Osceola Camp.



Bridging the Eastern Tamiami Trail Roadway Lowers Flood Risks



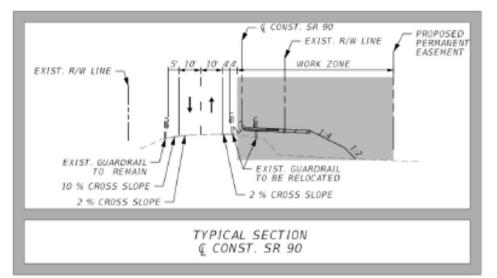
Adding bridges allows water managers to pass higher flows at lower canal ** stages, greatly reducing the flood risk to adjacent developed areas. Agenda Item #10



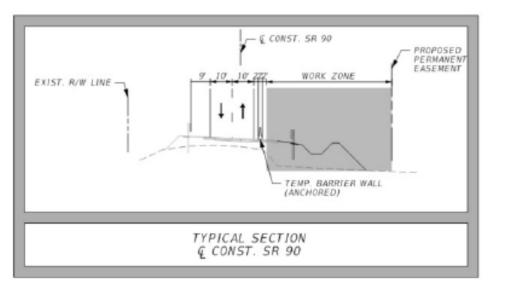
The roadway will be raised to prevent higher L-29 Canal stages from degrading the sub-base, which damages the structural asphalt paving.

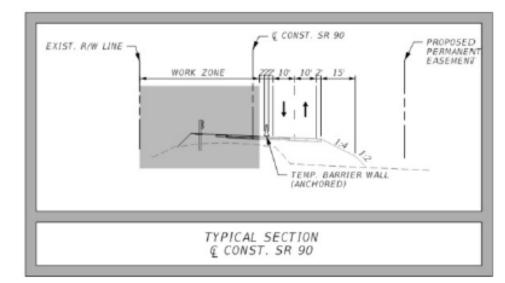


Tamiami Trail Next Steps Phase 2 – Construction Sequencing

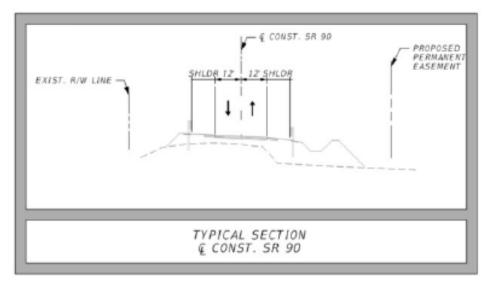


Phase 1 - Move Traffic North & Rebuild Eastbound Lanes





Phase 2 - Move Traffic South & Rebuild Westbound Lanes

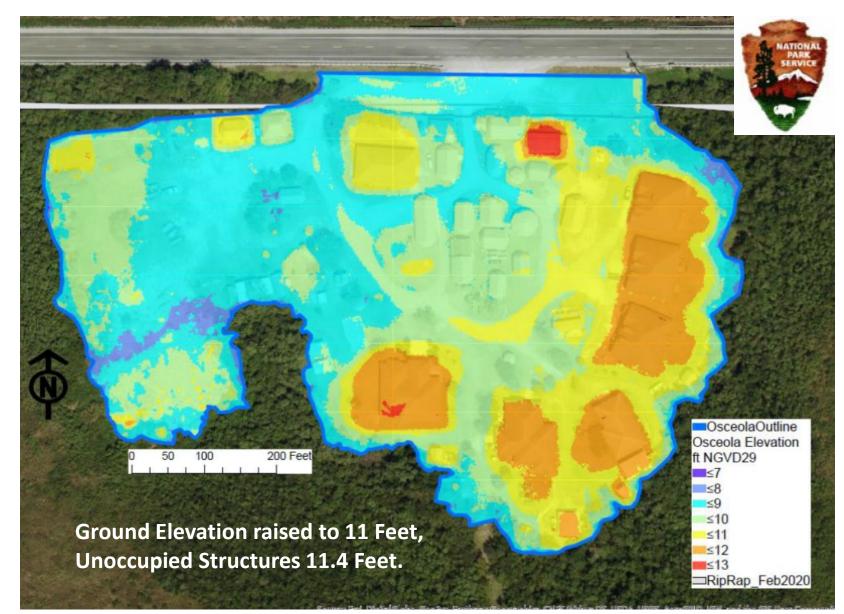


Phase 3 – Build Stormwater System & Final Roadway Configuration

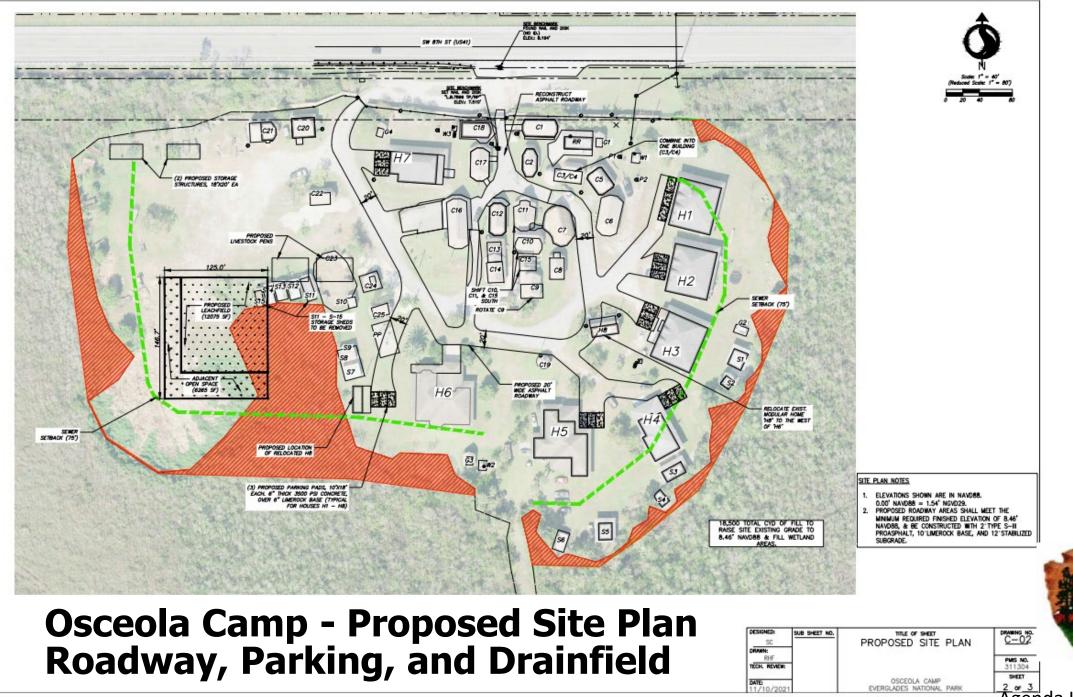
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Osceola Camp Flood Protection Cures Plan

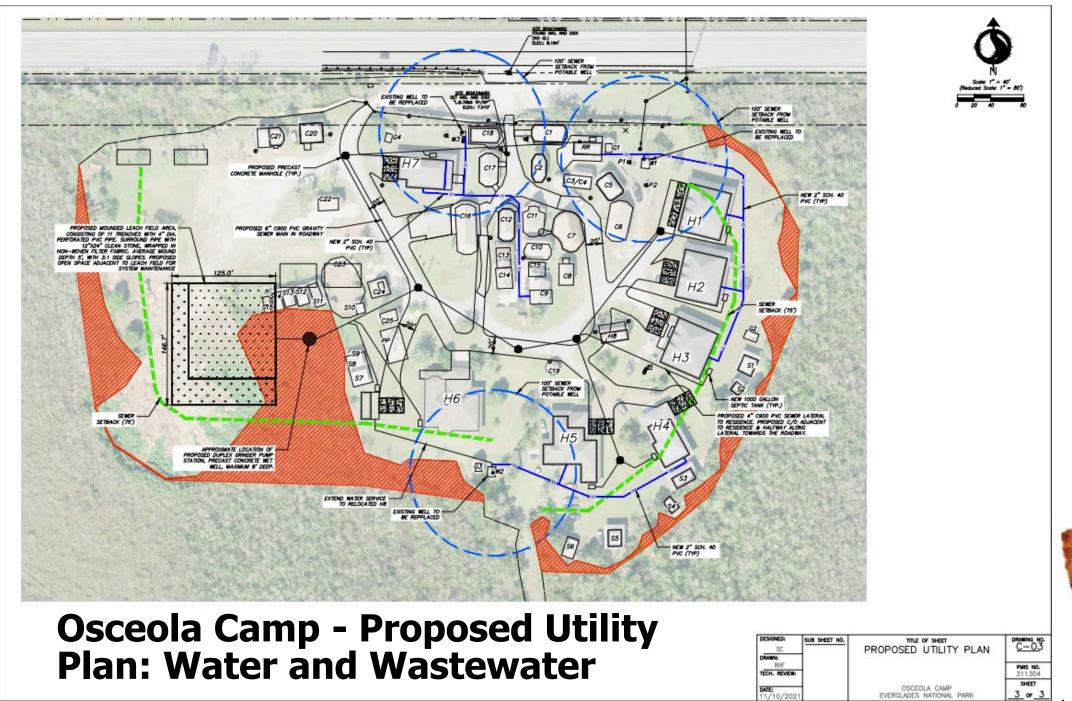
- CEPP South's planned increase in L-29 Canal water levels will adversely impact the Miccosukee Osceola Camp.
- The NPS completed the Osceola Camp Flood Protection Cures Plan in December 2021. The Camp's ground surface and un-occupied structures will be raised to meet USACE required elevations.
- The 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

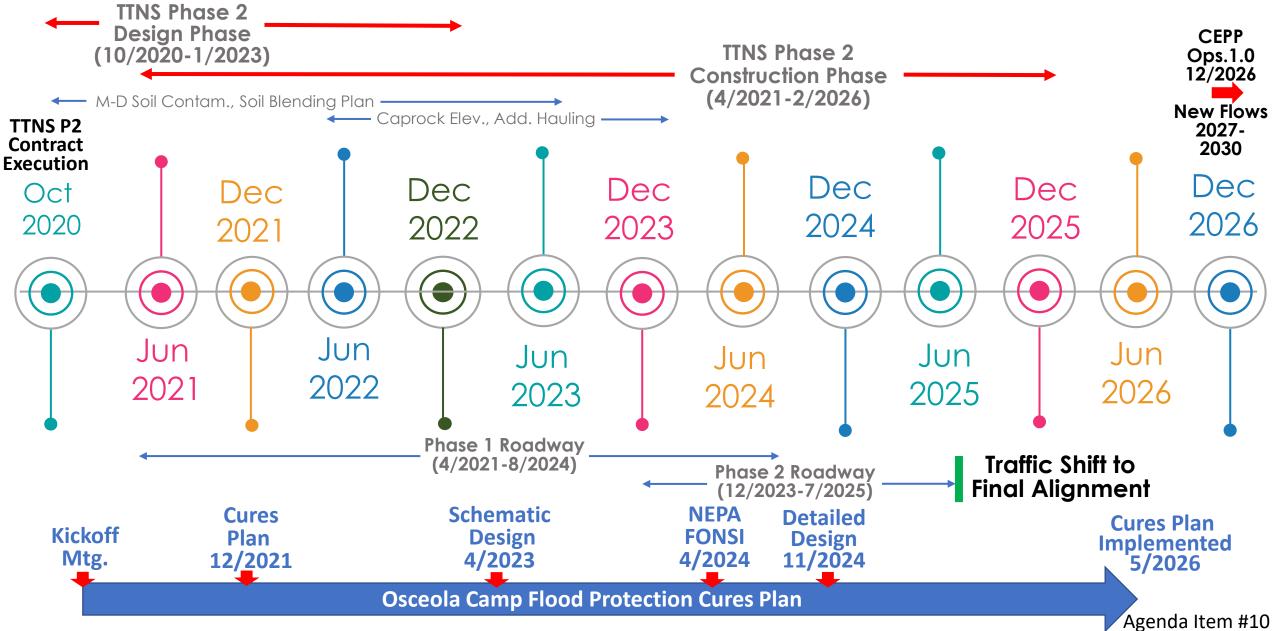


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Projected Timeline – Tamiami Trail Next Steps Phase 2 Osceola Camp Flood Protection Cures Plan



Discussion

Robert Johnson





