**Purpose**

- Raise and regrade ~990 acres in Cells 5 and 7 to achieve sustainable Emergent Aquatic Vegetation

**Design complete**

**Construction**

- Contract for import of fill and hauling awarded at February Governing Board Meeting
- Contract for regrading of cells is scheduled for March Governing Board Meeting
STA-1E Repairs & Modifications Project

- Regrade Cells 5 & 7 to 11.5-ft NAVD
  - Cell 5 (560-acres)
    - Net balance regrading
    - Level and redistribute existing material
    - Cut east areas and use to fill west areas
  - Cell 7 (430-acres)
    - Net import raise and regrade
    - Entire cell is below target elevation
    - Soil import requirements: 1.6 million tons (1.1 million cubic yards)

Source: 2012 Degrove Surveyors, Inc. (200-ft y200-ft grid)
STA-1W Expansion No. 2

- **Purpose**
  - Extend treatment flow ways for STA-1W
- **Estimated Cost $180M**
- **Features**
  - 1,600 acres of additional treatment area
- **Inflows**
  - S-5A and C-51 West Basins via STA-1W
- **Outflow**
  - Water Conservation Area 1
- **Design phase in progress**
- **Construction phase for pipe crossing for North Inflow PS in progress**
Restoration Strategies requires STA1W to discharge to Expansion #1 and #2 separately.

Expansion #2 inflow is from the south end of STA1W discharge canal, pipe installation is to cross under Expansion #1 discharge canal and route STA1W water south along a lined channel to the Expansion #2 footprint.

Construction contract requires excavation and installation of four 60-inch by 310 feet long steel pipes purchased through separate Contract.

Approved at February 1, 2020 Governing Board meeting.
STA-1W Expansion No. 2

- **Underground Piping Package**
  - Complete Design - December 2019
  - Start Construction - February 2020
  - Complete Construction - October 2020

- **STA Package**
  - Complete RTA Design - June 2020
  - Start Construction - September 2020
  - Complete Construction - December 2022

- **Inflow Pump Stations Package**
  - Complete RTA Design – October 2020
  - Start Construction – November 2020
  - Complete Construction – December 2022

- **Outflow Pump Station Package**
  - Complete RTA Design – October 2020
  - Start Construction – November 2020
  - Complete Construction – December 2022
- Project boundary between Hillsboro Canal and North New River
- Deepening and widening of the L-16 Bolles Canal to construct largest possible cross-section within District right of way to increase operational flexibility
- Replace impacted farm ditches and roads outside of right of way
- Relocation of existing electrical services
★ Segment 1 & 2 complete
★ Segment 3 substantially complete
★ Segment 4 in construction 11/15/19 NTP
★ Segment 5 and bridges in design
C-139 Flow Equalization Basin

- **Purpose**
  - Attenuate high flows into STA-5/6

- **Features**
  - 2,800 acres located south of Deer Fence Canal and west of STA-5/6 Flow way 3
  - 11,000 acre-ft shallow impoundment

- **Inflows**
  - C-139 Basin Runoff

- **Outflows**
  - STA-5/6

- **Design in progress**
  - Corrected Final / RTA Submittal 9/29/20
  - Design Consent Order Deadline 10/31/20
Purpose
- Lower and regrade Cells 2A and 3A to achieve sustainable EAV
- Repaired 1,162 acres increase from 800 acres

Flow way 2A
- Level to 11.9’ NAVD

Flow way 3A
- Level to 11.8’ NAVD
- Transport excess fill to C-139 FEB footprint

Construction complete, working on as-built drawings

Total Cost $10.2M
STA-5/6 Earthwork Improvements

Cell 2A SE Corner

Cell 3A SW Corner

 Spoil Pile from Cell 3A on C139 FEB Footprint
Questions

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