

C43 WEST BASIN STORAGE RESERVOIR

PACKAGE 4 - CIVIL WORKS
INDUSTRY DAY
MAY 7 2018



SFWMD – Who We Are

 Oldest and largest of the state's five regional water management districts

16 counties; 7.9 million residents

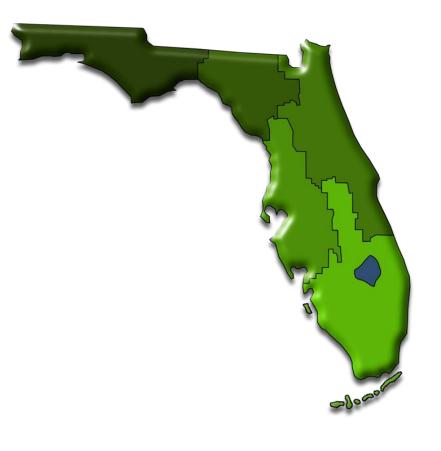
Regional responsibilities

Water Quality

Flood Control

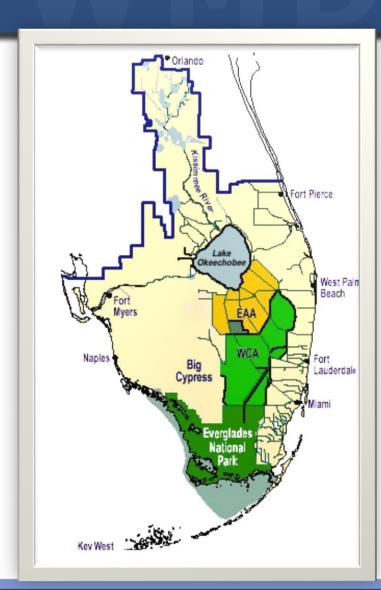
Natural Systems

Water Supply



SFWMD – Who We Are

- Created in 1949 as local sponsor for Federal C&SF System
- Expanded responsibilities in 1972
- Today's system consists of 2,100 miles of canals and 2,000 miles of levees/berms and more than 600 water control structures, 625 culverts and 71 pump stations
- Currently engaged in restoration of Everglades ecosystem



Project Team



- Janet Starnes Project Manager
- Joe Albers, P.E. Engineering PM
- Tom McKernan Construction Manager
- Bonnie Cantrell Procurement
- Partner US Army Corps of Engineers

Solicitation Process

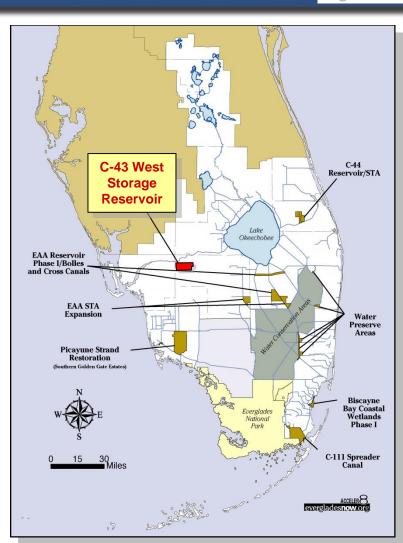


- Two Step Process
 - Request for Statement of Qualifications (SOQ)
 - Request For Bids
 - Requirements will be listed in SOQ
 - Must use District Forms that are included
- Site Visits
- Questions must be submitted to Bonnie Cantrell in writing, <u>bcantrel@sfwmd.gov</u> or fax (561) 682-5319

C43 Reservoir

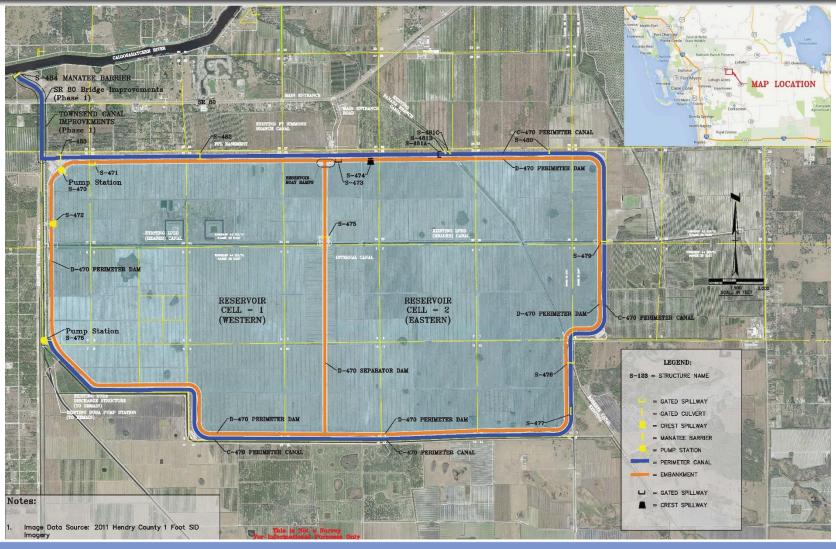


- Purpose
 - Project will improve timing, quality and quantity of water deliveries to the Caloosahatchee Estuary
 - Capture excess basin runoff and Lake Okeechobee releases
 - Provide dry season flows to restore salinity levels
 - Reduce wet season flows



Project Site



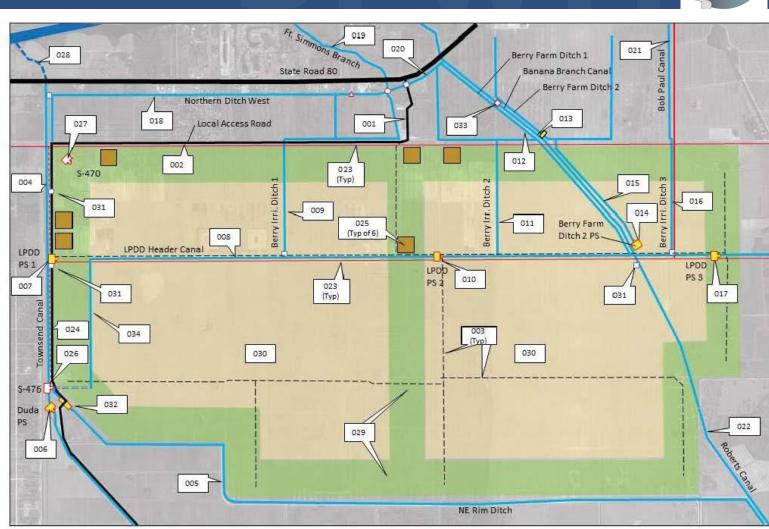


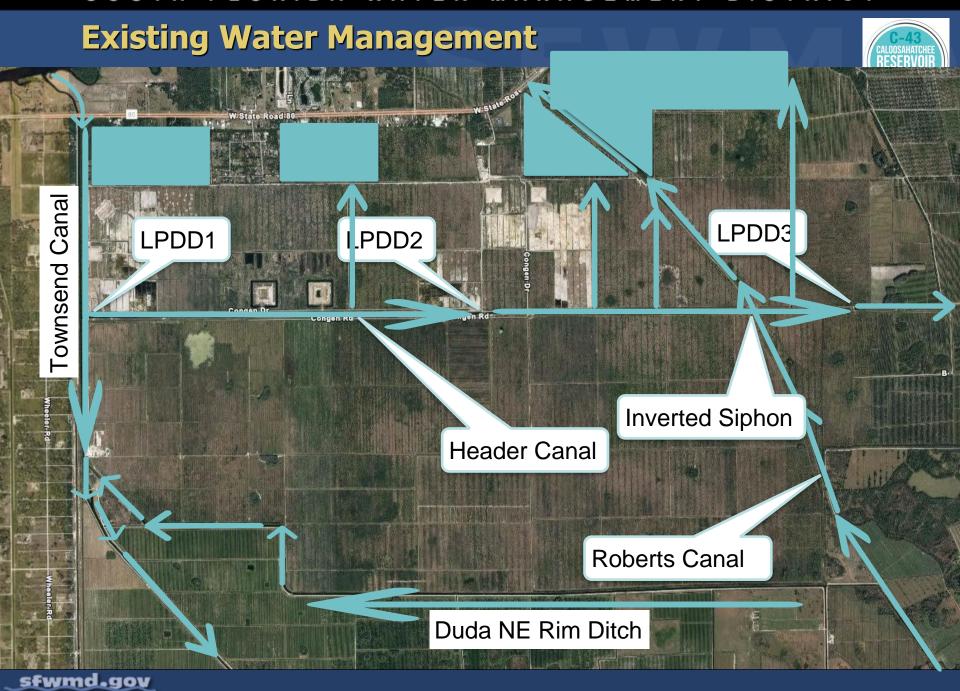
C43 Existing Conditions



EXISTING CONDITIONS:

- 001. Congen Road
- 002. Local Access Road
- 003. Primary Interior Access & Haul Roads
- 004. Townsend Canal
- 005. Northeast Rim Ditch
- 006. Duda Pump Station
- 007. LPDD Pump Station 1
- 008. LPDD Header Canal 009. Berry Irrigation Ditch 1
- 010. LPDD Pump Station 2
- 011. Berry Irrigation Ditch 2
- 012. Berry Farm Ditch 1
- 013. Banana Branch Canal
- 014. Berry Farm Ditch 2 Pump Station
- 015. Berry Farm Ditch 2
- 016. Berry Irrigation Ditch 3
- 017. LPDD Pump Station 3
- 018. Northern Ditch West
- 019. Ft. Simmons Branch
- 020. Northern Ditch East
- 021. Bob Paul Canal
- 022. Roberts Canal
- 023. FPL Overhead Power
- 024. FPL Underground Power
- 025. Pre-load Mounds
- 026. S-476 Pump Station
- 027. S-470 Pump Station
- 028. North Townsend Canal Improvements
- 029. Clearing & Grubbing
- 030. Tree Clearing
- 031. Culverts
- 032. Duda Control Structure
- 033. Gated Structure
- 034. S-476 Bypass System





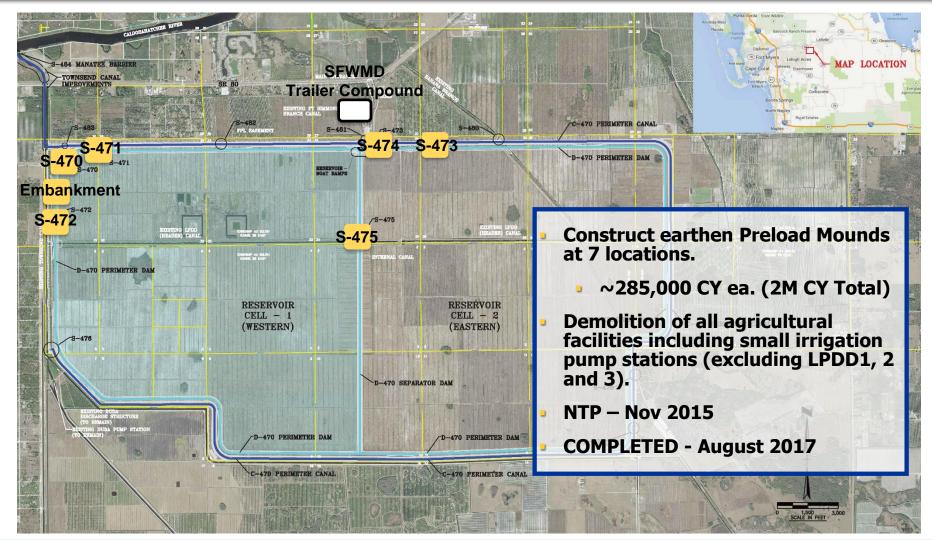
Project Delivery Plan





Package 1 - Preload & Demolition





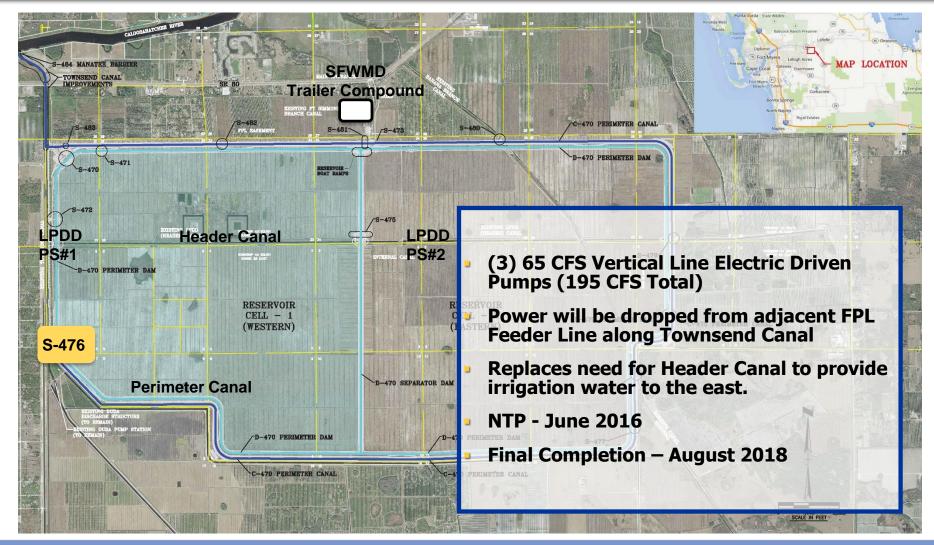
Package 1 — Preload & Demolition





Package 2 — Irrigation PS S-476





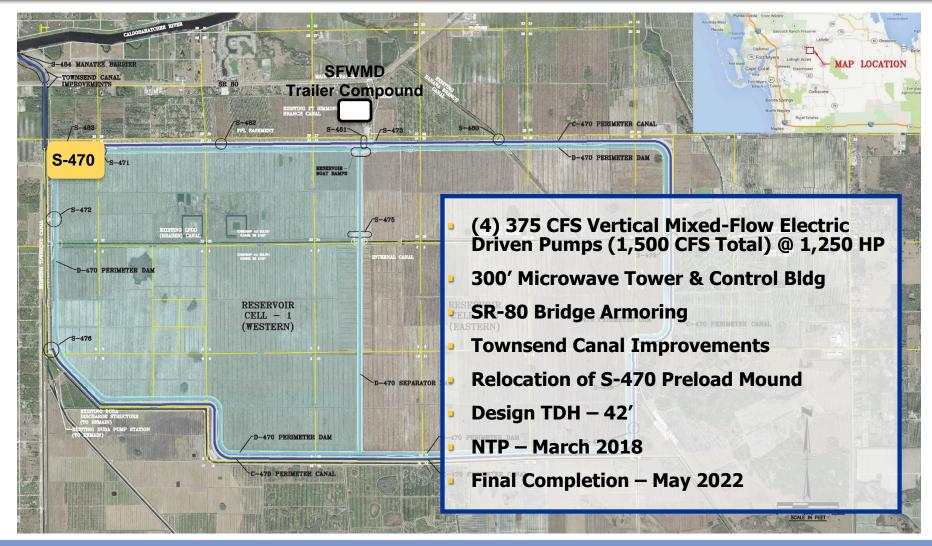
Package 2 — Irrigation PS S-476





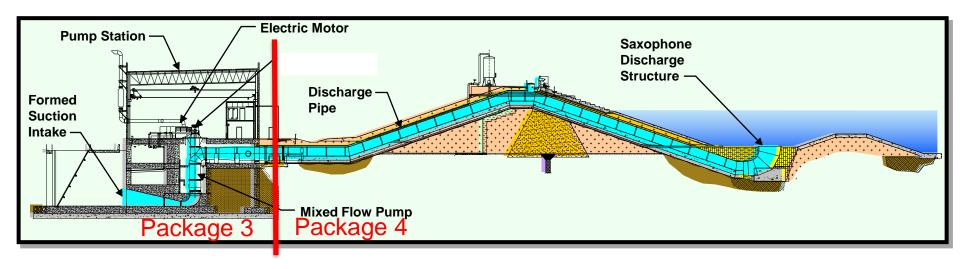
Package 3 — Inflow Pump Sta S-470





Package 3 – Inflow Pump Sta S-470

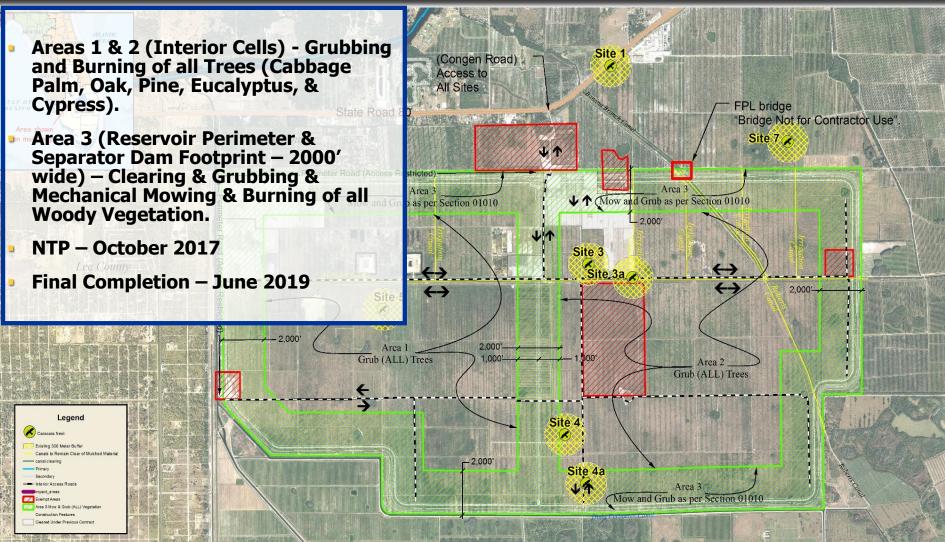




Pump Station and Discharge

Site Clearing





Site Clearing





Access Roads



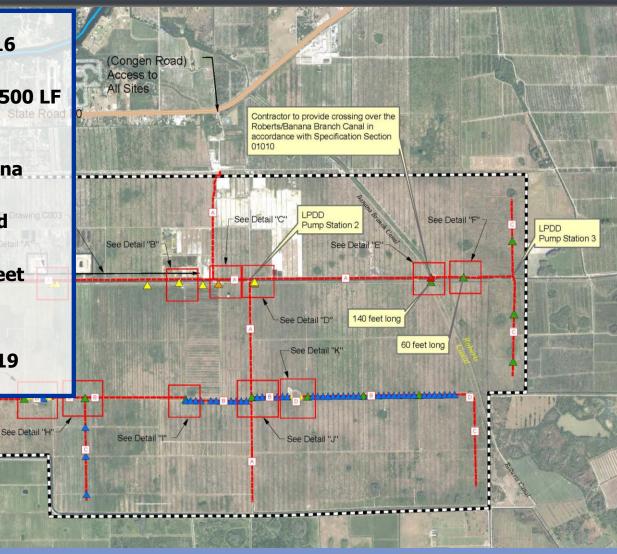
- Construction of approximately 16 Miles of Shell Rock Rd.
- Installation of approximately 2,500 LF of culverts
- Design and installation of road crossing over the Roberts/Banana Branch Canal
- Removal of existing culverts and temporary canal plugs
- Installation of speed limit & street signs key
- NTP April 2018
- Final Completion February 2019

Access Roa

- Proposed Reinforced Access Road Construction
- Boundar

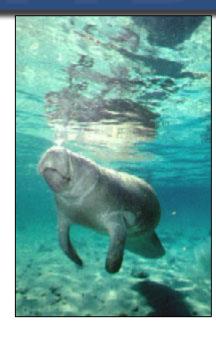
Notes:

- 1. All drain pipes are 40' overall in length unless noted otherwise on the drawings.
- Refer to the Drawing C003 for roadway sections and details.



Threatened and Endangered Species

- Multiple T&E Species on project site
- Training required for all workers
- Protection strongly enforced
- Strict reporting requirements





Package 4 – Civil Works

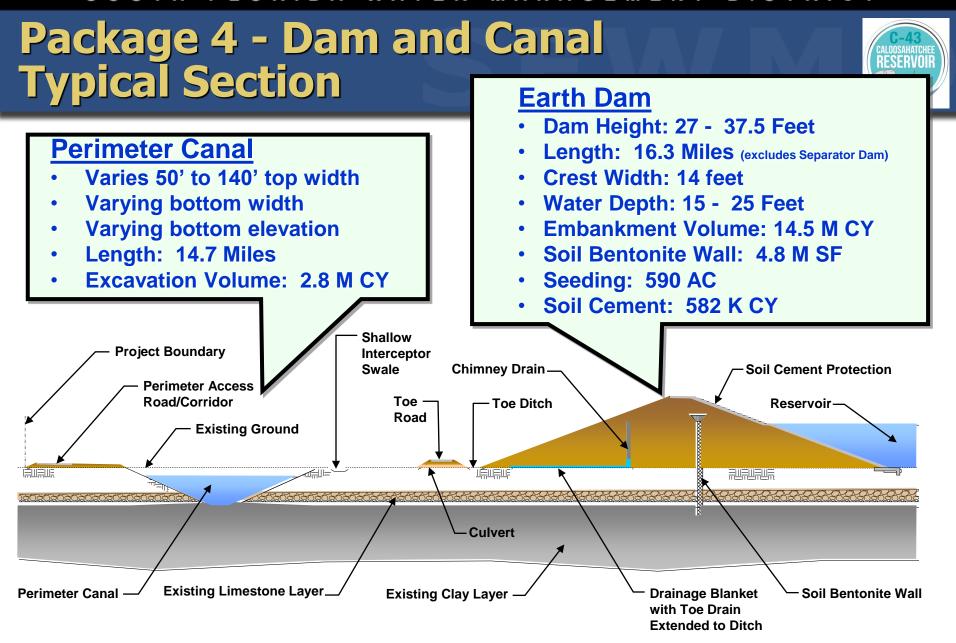


- 2-Cell Reservoir
 - ~ 10,000 Acres
 - 170,000 ac-ft of storage
 - Dam height 27 ft 38 ft
- ~19 Miles of Dam Embankment
- ~14.7 Miles of Perimeter Canal
- Soil Bentonite Seepage Barrier
- Soil Cement Lining
- Seepage Management System
- Pressure Relief System

Package 4 – Civil Works (cont.)

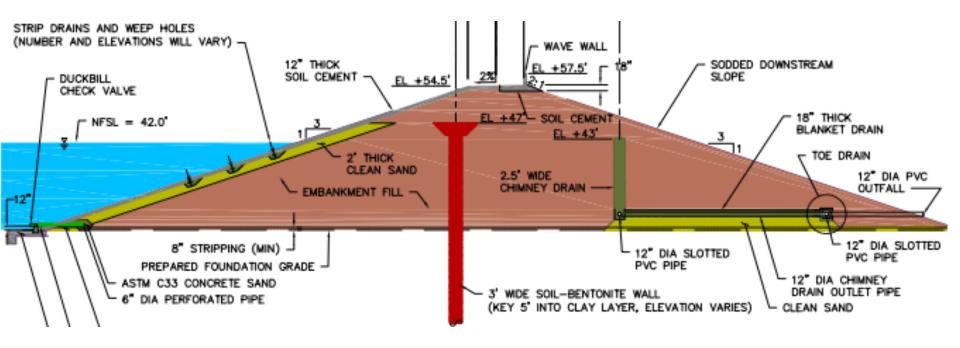


- 14 Water Control Structures
- Discharge Piping for S-470 Pump Station
- Recreation Features
- Townsend Canal Improvements
- Local & Site Access Bridges
- Currently at Intermediate Design Review Stage
- NTP March 2019



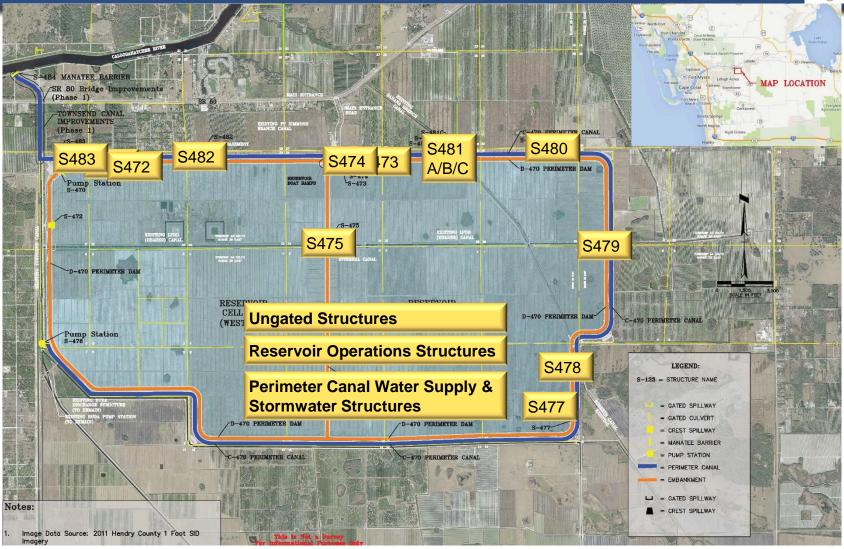
Typical Dam Sectional Details



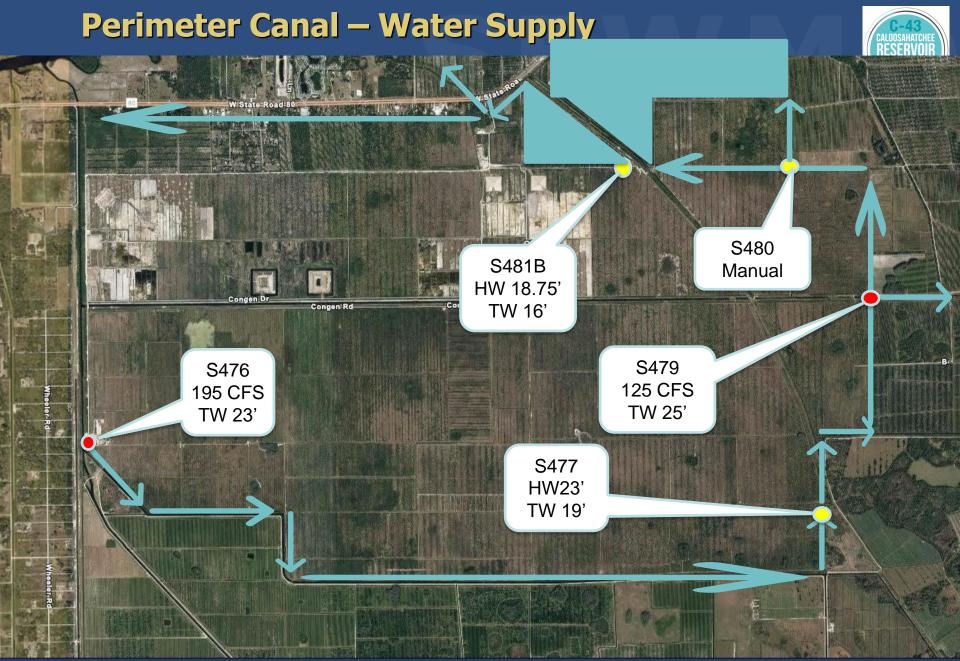


Water Control Structures



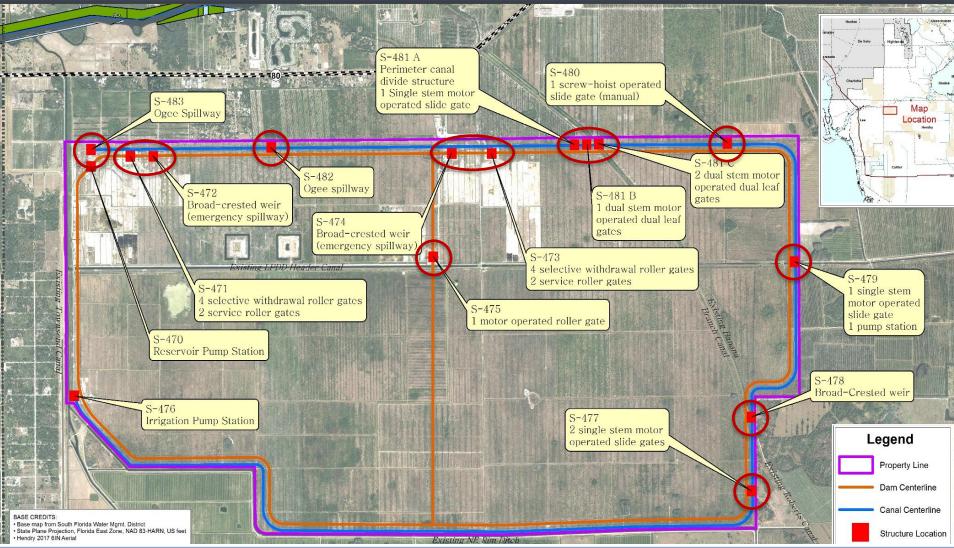






Completed Project Components





Funding



- Project will be funded by annual State of Florida legislative appropriations
- Corps will credit up to 50% of cost to District applicable to other projects.

What's Next



- Site Visit May 8, 2018
- Issue RFQ target mid-May 2018
- RFQ Responses due target early July 2018
- Approval of Prequalified list target tentative August 2018

Questions



