

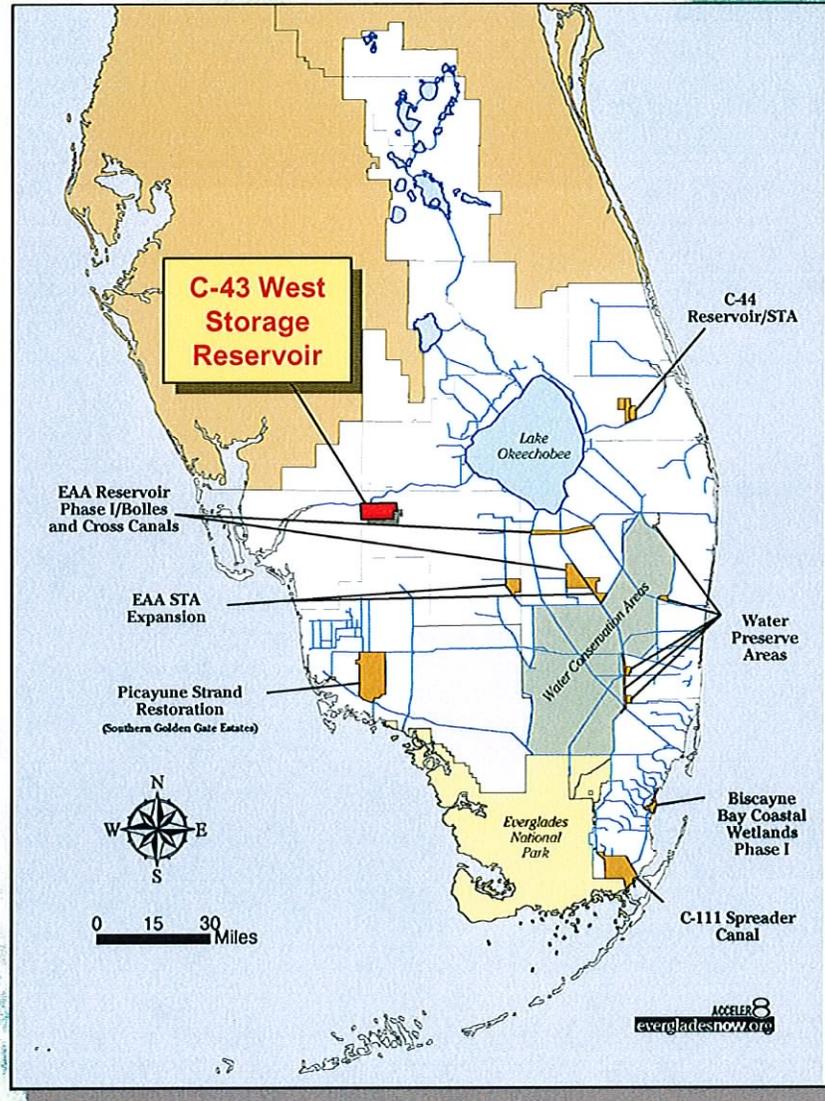
C-43 WEST STORAGE RESERVOIR PROJECT

Preliminary Design

WRAC Presentation

December 6, 2006

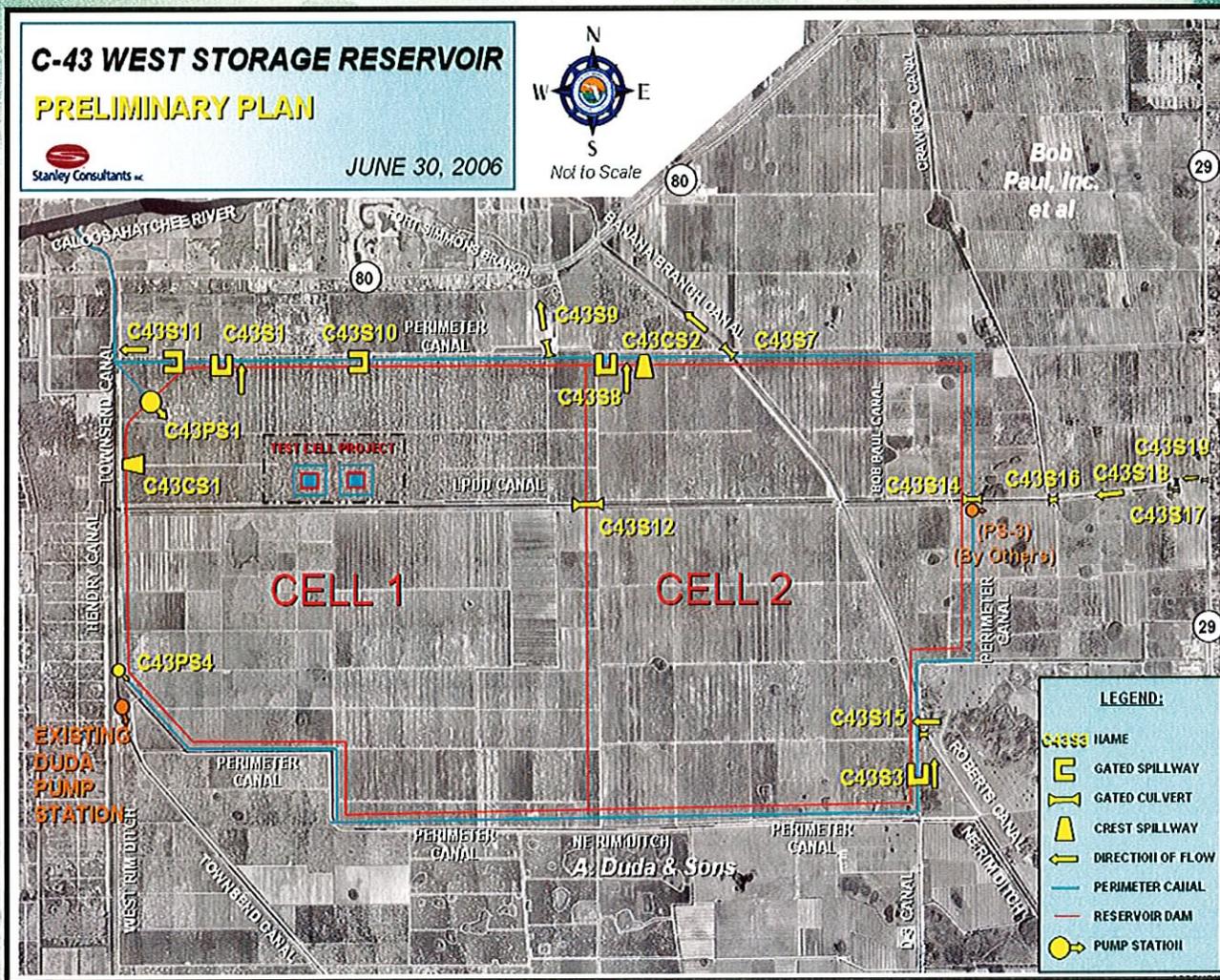
C-43 WSR PROJECT LOCATION



C-43 WEST STORAGE RESERVOIR

- **Phase I of C-43 Basin Project Implementation Report (USACE)**
- **170,000 acre-feet of water storage and 1,500 cfs pump station**
- **Purpose**
 - Improve the salinity balance in downstream estuary
 - Attenuate peak flows during the wet season
 - Provide essential flows during the dry season

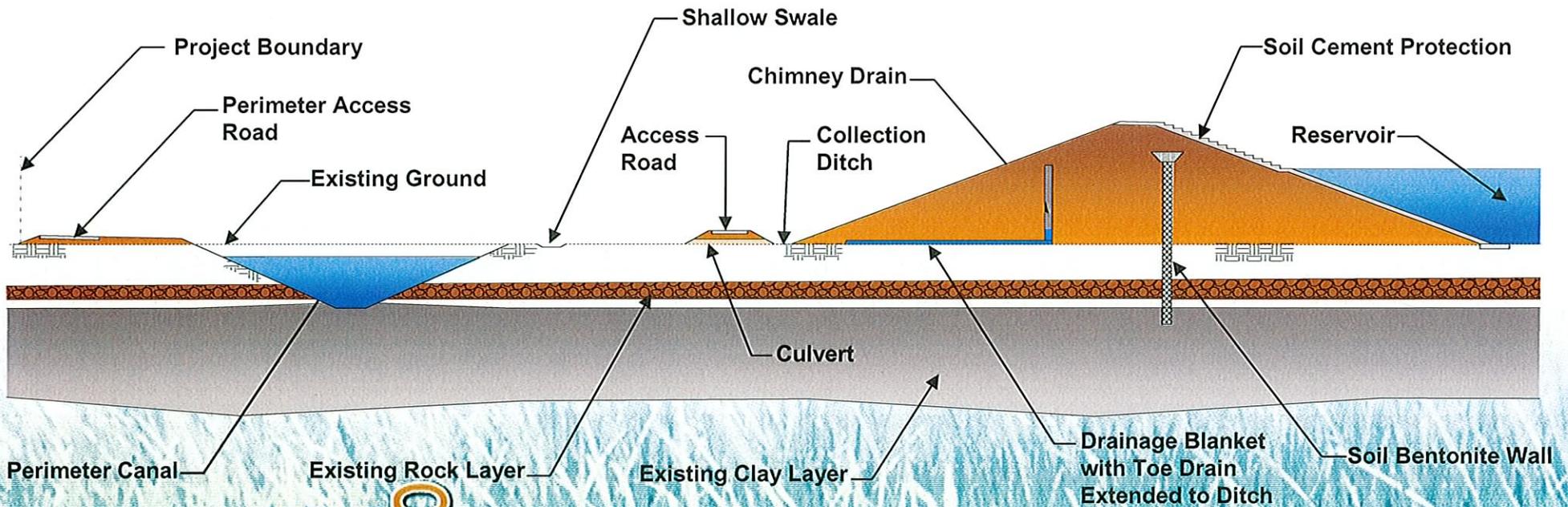
C-43 WSR CONCEPTUAL PLAN



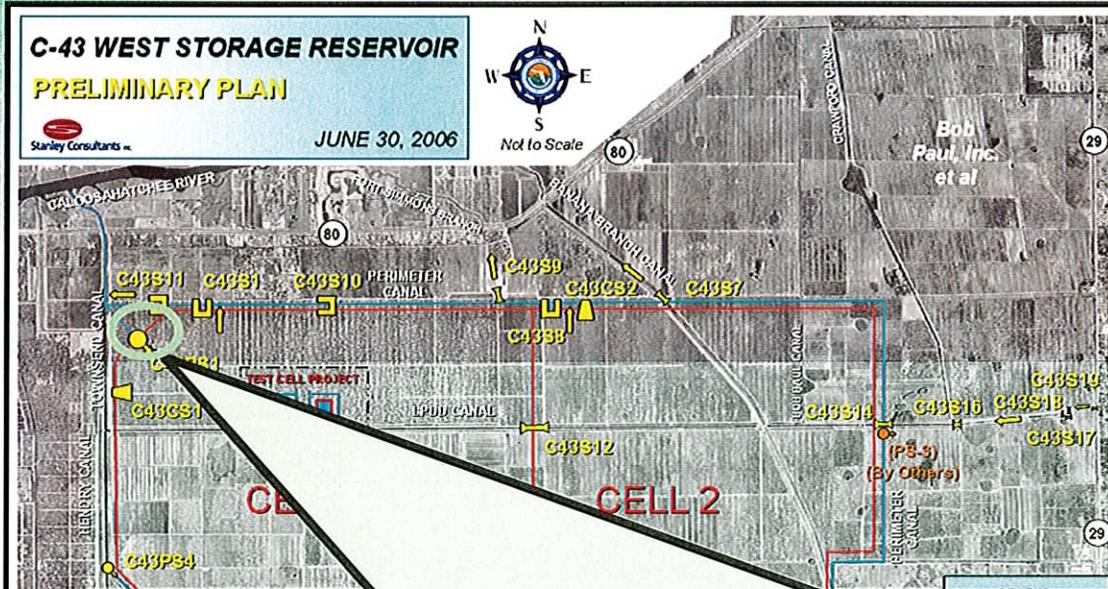
PROJECT COMPONENTS

- **Two-Cell Reservoir**
 - ~11,000 acres
- **Earth Dam**
 - 27 – 38 feet high
 - 16.3 miles long
- **Perimeter Canal**
 - 14.7 miles long
- **16 Water Control Structures**
- **2 Pump Stations**
- **Improve Townsend Canal**

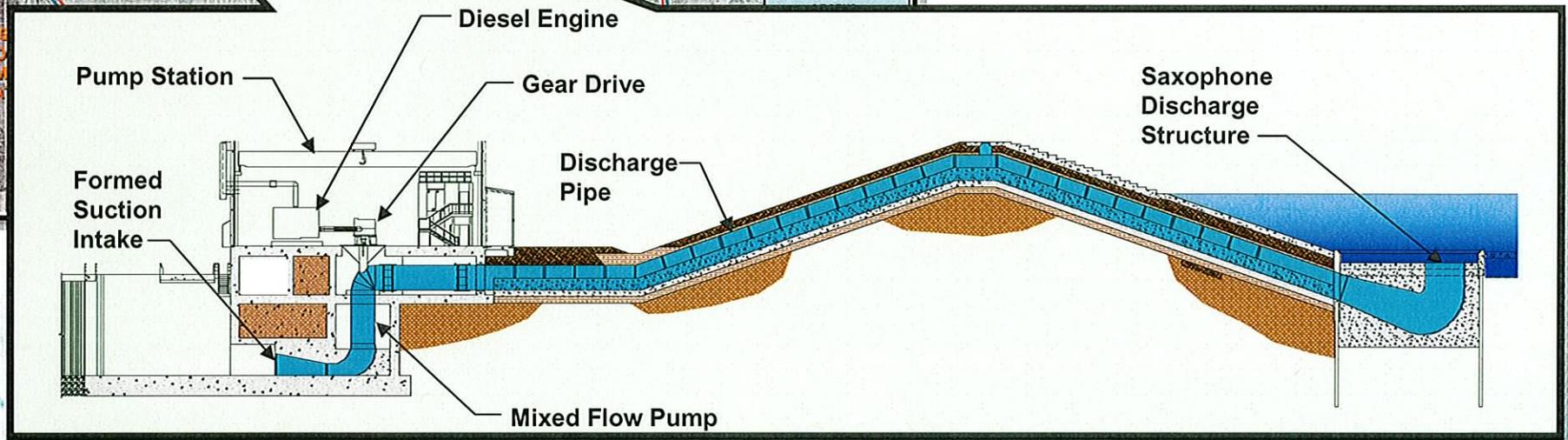
C-43 WEST STORAGE RESERVOIR DAM & PERIMETER CANAL TYPICAL SECTION



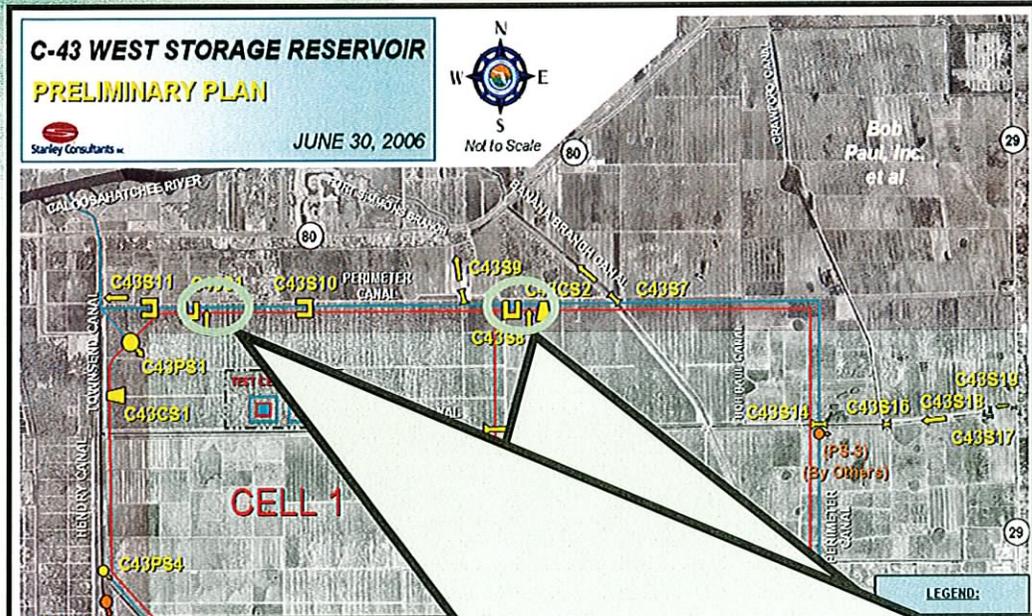
C-43 WSR PUMP STATION 1



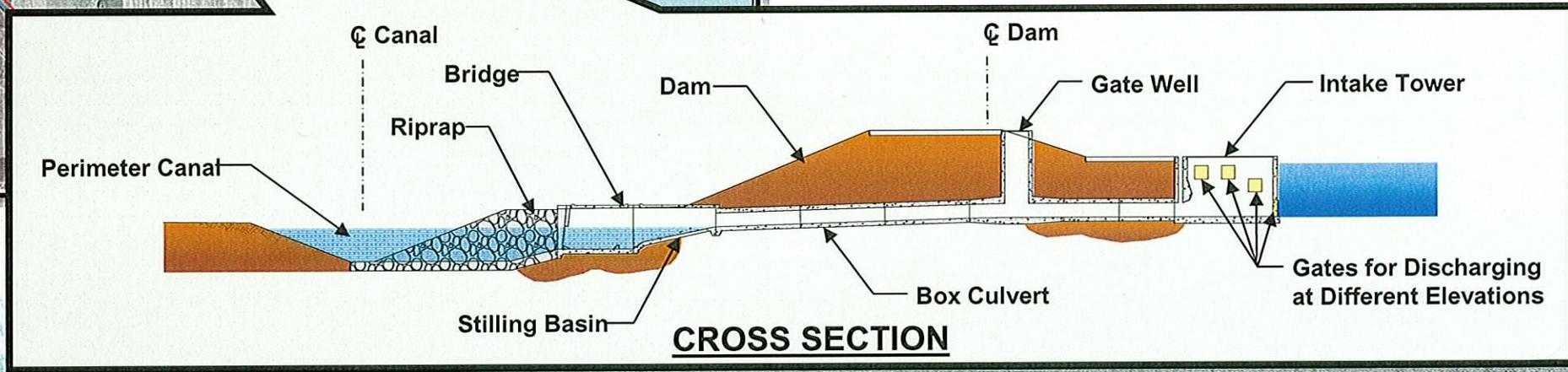
- **1,500 cubic feet/second pump station capacity**
 - 2 - 250 cfs Pumps
 - 2 - 500 cfs Pumps



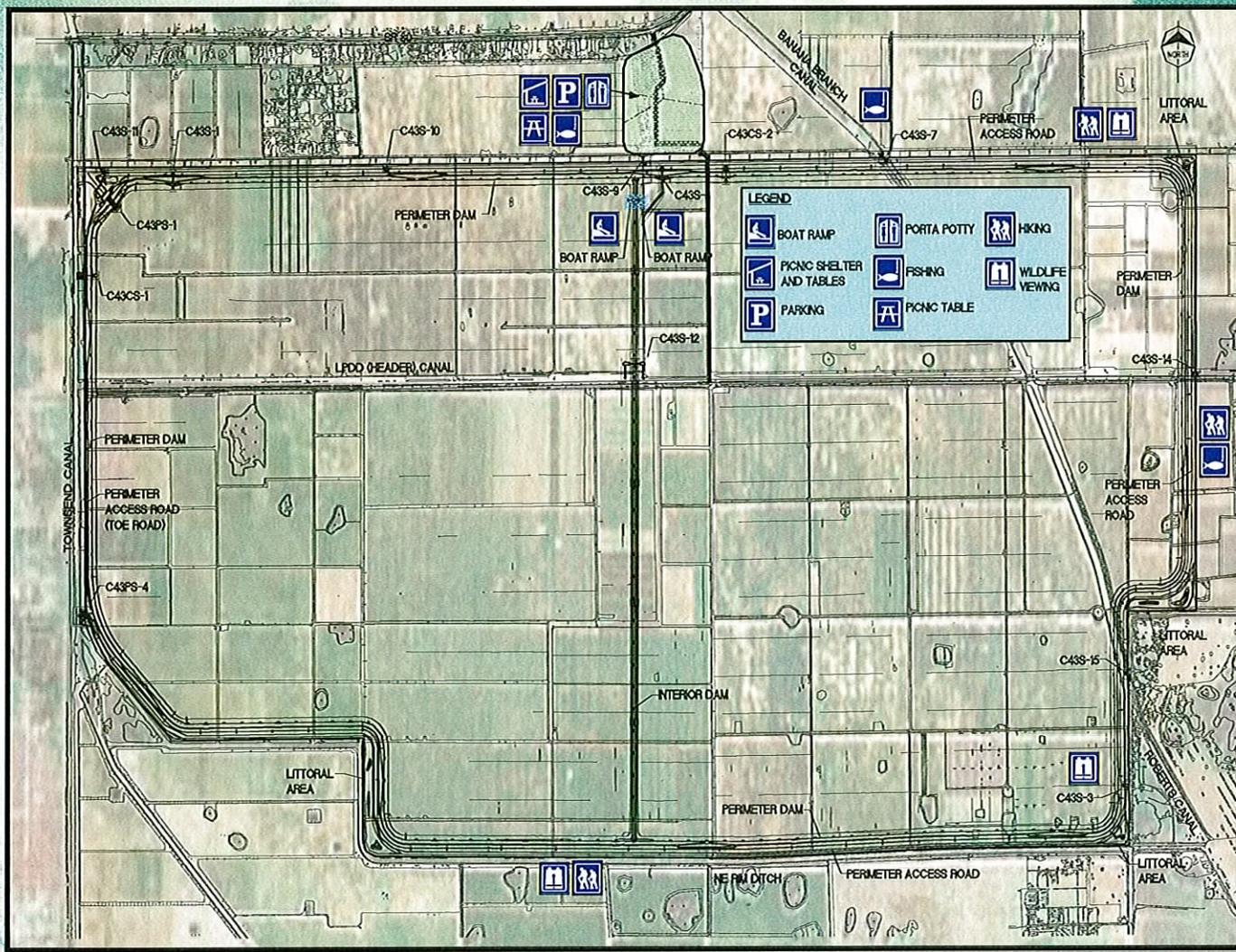
C-43 WSR DISCHARGE STRUCTURES



- 2 gated discharge structures for each reservoir cell



C-43 WSR RECREATIONAL OPPORTUNITIES



Potential Opportunities

- Picnicking
- Hiking
- Fishing
- Boating
- Bird/Wildlife Viewing
- Equestrian

C-43 WSR PROJECT SCHEDULE

- **CMAR Solicitation – December 2006**
- **Clearing & Grubbing Final Design – March 2007**
- **CMAR On Board – April 2007**
- **Clearing & Grubbing Solicitation – May 2007**
- **Clearing & Grubbing Construction Start – July 2007**
- **Final Design Submittal – December 2007**
- **Construction Start – January 2008**
- **Construction Complete – December 2010**

C-43 WSR PROJECT BUDGET

- **Original Project Estimate - \$448,900,000**
- **BODR Project Estimate - \$335,700,000**
- **Preliminary Design Project Estimate - \$380,000,000**

C-43 TEST CELL CONSTRUCTION

- Evaluate during Construction (completed June 06):
 - Using On-Site Materials
 - Two Embankment Designs
 - Construction Methods
- Monitor through June 07:
 - Seepage through Embankment:
 - Test Cell #1 – 450 gpm/mile
 - Test Cell #2 – 70 gpm/mile
 - Settlement of Embankment
 - Water Quality



C-43 WSR STAKEHOLDER ISSUES

- Seepage
- Water Quality
- Recreation
- Safety
- Larger Reservoir
- Flooding East of SR-29
- Water Supply To Duda

QUESTIONS/COMMENTS

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