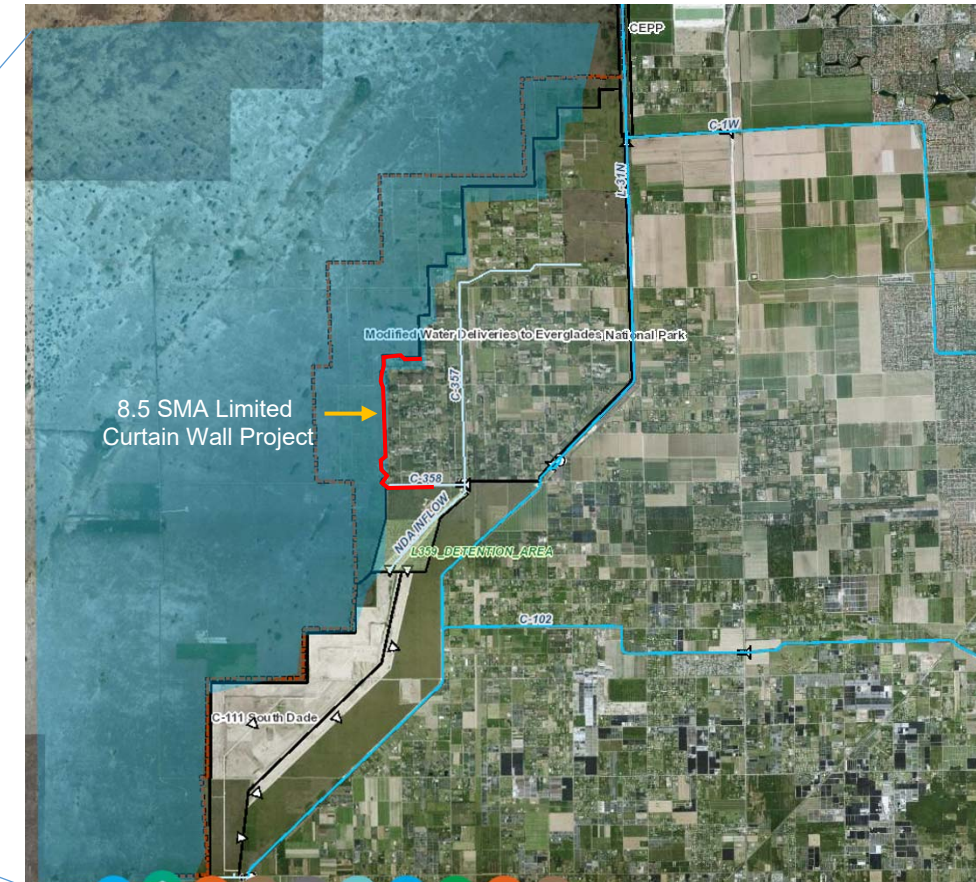
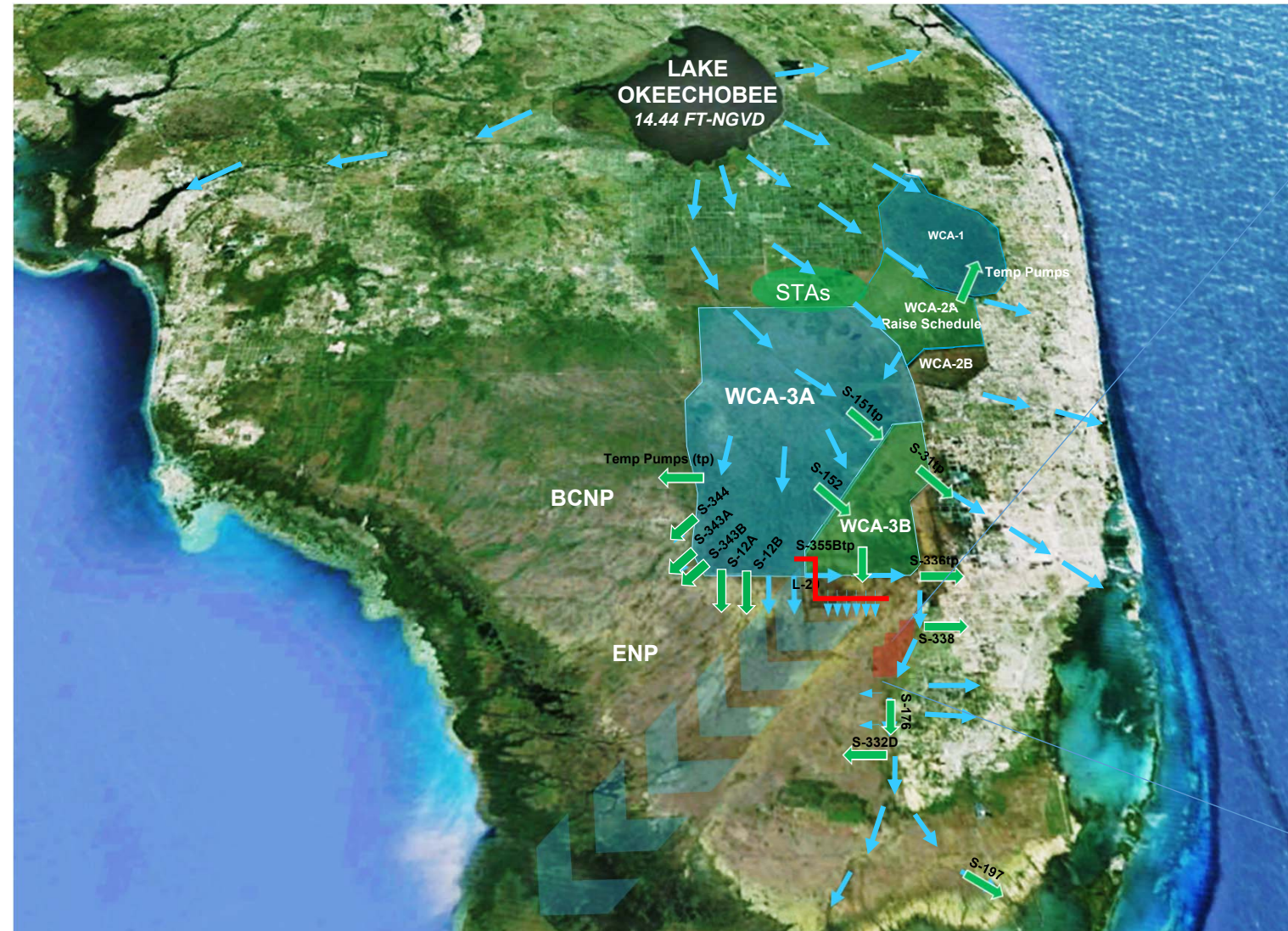


8.5 SMA Limited Curtain Wall

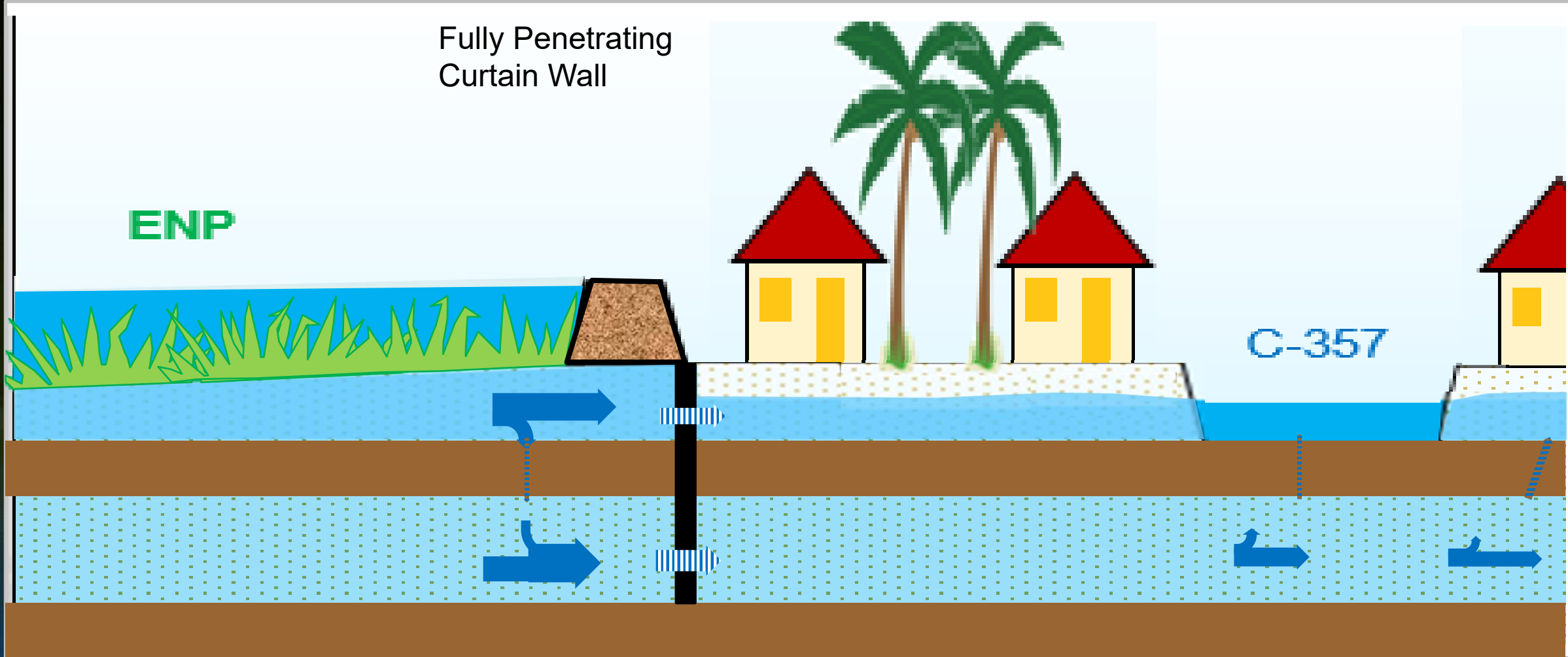
Alan Shirkey, P.E.
Bureau Chief, Engineering and Construction
South Florida Water Management District
Governing Board
March 11, 2021



Location



Future Conditions – With Curtain Wall



Seepage Reduction

Performance of fully penetrating and partially penetrating curtain wall (wet conditions represented by 2017 rainfall)

Future Condition (Higher water level in NESRS equivalent to CEPP simulated stages)	Simulated Seepage during Wet Month (Oct 2017) (ac-ft/day)		Simulated Conditions at LPG-2	
	Wall Transect (B+C+D)	Edges Transect (A+E)	Avg Stage October 2017 Ft NGVD	Days with water above ground * Days/year
Without Curtain Wall	863	408	8.10	246
Partially Penetrating Wall	299	440	7.33	243
Fully Penetrating Wall	44	484	4.85	44
Current Without Curtain Wall	400	296	7.26	152

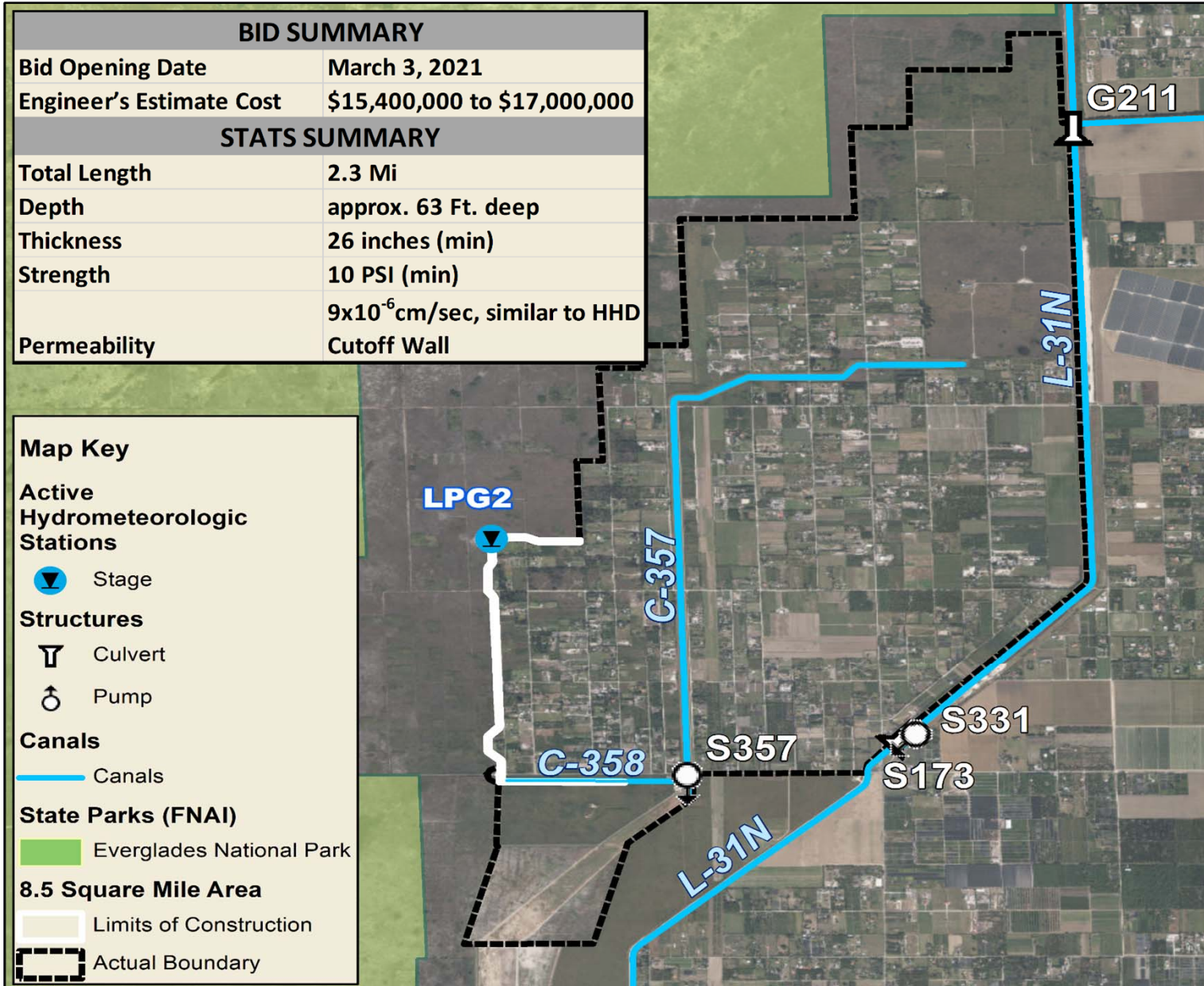
* Based on simulated wet year conditions at cell representing LPG2 Well

Red numbers = increase in seepage into 8.5 SMA

Green numbers = reduction in seepage into 8.5 SMA



8.5 SMA Limited Curtain Wall Features

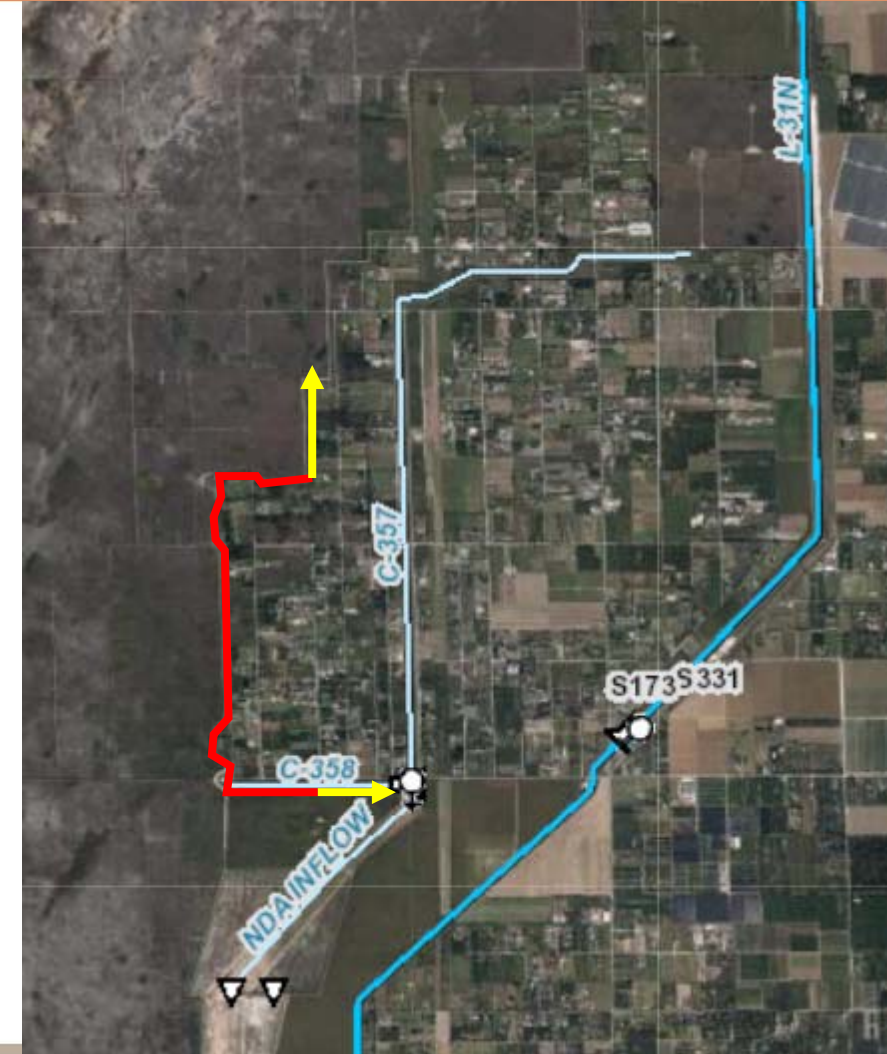


- Test Section:** Contractor shall demonstrate 500 feet wall test section with means and methods before proceeding with entire project



8.5 SMA Curtain Wall Extension

- Current construction contracts allow District to complete 2.3 miles using low bid lump sum contract and exercise an option to extend the Curtain Wall beyond the 2.3-mile base wall alignment at a per-square-foot price at District's discretion.
- Extension can proceed in either direction of the base alignment.
- This allows the District, subject to governing board approval and funding, to continue beyond the planned 2.3-mile section to allow additional restoration flows to NESRS





Bid Summary

- RFB Advertised: January 29, 2021
- Bid Opening: March 5, 2021
- Number of Bids Received: 03
- Bid Range: \$13,922,858 to \$28,378,000
- Engineer's Estimate: \$15,400,000 to \$17,000,000



Resolution

A Resolution of the Governing Board of the South Florida Water Management District to authorize entering into a 360-day contract with Geo-Solutions Inc., the lowest responsive and responsible bidder, for the 8.5 SMA Limited Curtain Wall Project, in the amount of \$13,922,858 for which dedicated funds (Land Acquisition Trust Fund) and Ad Valorem funds are budgeted in Fiscal Year 2020-2021; providing an effective date. (Contract No. 4600004395)