

Savannah Gully Storm Surge and Flood Control Project
Planning Application Summary
March 28th, 2008

Planning Phase– Original scope of study was to design a seawater flood mitigation and coastal defense system in the Savannah Acres area. Phase completed at the end of October 2006. Major steps included:

- Identified problem and source of problem
- Identified extent of flooding
- Researched existing geotechnical and hydraulic data
- Identified Measures of Effectiveness
- Identified range of conceptual alternatives.
- Public outreach and media involvement.

Conceptual Engineering & Detailed Investigation Phase – Scope included conducting the detailed studies to identify subsurface and storm surge forces. Coastal engineering determined problem to be wave run up not storm surge. Wave forces determined from modeling. Phase completed at the end of March 2007. Major steps included:

- Conducted preliminary subsurface drilling program
- Conducted topographic survey of ironshore
- Identified feasible wall types and foundations
- Storm surge modeling
- Hurricane wave generation modeling
- Nearshore wave modeling
- Wave Run up and overtopping

Preliminary Engineering and Final Design Phase – This phase followed a modified design build approach in order to meet an expedited schedule. Major steps included:

- Foundation Analysis
- Foundation Design
- Foundation Recommendations Summary
- Preliminary Floodwall Engineering
- Final Floodwall Design

Construction Services and Construction Phase – This phase will follow a modified design build approach in order to meet an expedited schedule. Major steps will include:

- Prequalification of Contractors
- Construction Bid document prepared
- Pre-bid Meeting and Pre-construction Meeting
- Construction Inspection RFP preparation
- Construction Consultation (Design Modifications during Construction)

- Estimated Construction Fees
- Trench Excavation
- Construction of Foundation
- Construction of Wall
- Construction Inspection

Public Meeting on November 1st, 2007 – Public meeting was held to discuss previously presented alternatives for preventing or mitigating flooding.

- Reviewed results of coastal engineering studies
- Evaluated potential solutions previously presented
- Details on floodwall design and effectiveness were presented
- 75 residents were present at the meeting and the majority overwhelmingly supported the wall.