



Agenda Item: Update on the Stewart Beach Drainage Project

Background:

In March of 2016 the Park Board put out a request for qualifications for engineering firms to study the drainage problems at the beach parks and provide solutions to remedy those issues. Six firms submitted Statements of Qualifications and subsequently Atkins was contracted in 7/2016 to perform work at both East & Stewart Beach. Their study considered numerous alternatives for the drainage problems and initial estimated costs. Upon conclusion of the initial study, Atkins was re-engaged in 2019 to develop specific engineering specifications for the agreed upon solution at Stewart Beach. Their work included the following components:

- Detailed topographical survey
- Geotechnical analysis
- Environmental Investigation
- Modeling existing drainage
- Development of parking area drainage alternatives
- Modeling of drainage for alternatives
- Sand stabilization measures
- Analysis of alternative fill amounts and configurations for discussion with Park Board Staff
- Maintenance Components

All told, this engineering effort equates to ~\$444,000 of investment in engineering to bring us to plans and specifications for construction, construction administration and 2 years of maintenance & monitoring. In summary, the proposed modifications to the parking areas at Stewart Beach include the following:

- Increase elevations in parking areas with permeable fill
- Provide a slope to the areas to avoid ponding
- Divert runoff from adjacent areas with roadside ditches
- Install vegetation where possible to clean runoff

Stabilization measures were explored and proposed but discounted by both BMAC and the Texas General Land Office and removed from the project.

Staff Recommendation:

No recommendations at this time.

Funding Source (if applicable):

Industrial Development Corporation Grant Request

Texas General Land Office Coastal Management Program Project of Special Merit Grant Request

Funding held in the Stewart Beach Budget (SB-52-5407)

