



**AGENDA MEMORANDUM**

February 17, 2020

Corpus Christi Business and Job Development Board Meeting

**DATE:** February 6, 2020

**TO:** President and Honorable Board Members,  
Corpus Christi Business and Job Development Corporation

**THROUGH:** Peter Zanoni, City Manager

**FROM:** J.H. Edmonds, P.E., Director of Engineering Services  
JeffreyE@cctexas.com  
(361) 826-3500

**UPDATE**

Engineering Services Monthly Project Update

**STAFF PRESENTER(S):**

<b><u>Name</u></b>	<b><u>Title/Position</u></b>	<b><u>Department</u></b>
1. Jeff H. Edmonds, P.E.	Director	Engineering Services

**OUTSIDE PRESENTER(S):**

None.

**BACKGROUND:**

The current active projects are listed below with the monthly activity shown.

**PROGRESS FROM PREVIOUS MEETING:**

1. Seawall Capital Repairs – Project is currently advertised for bid. Bid opening scheduled for March 4, 2020.
2. Restoration of SEA District Water Features – Engineering is working to get the project advertised for bid in February.
3. McGee Beach Nourishment/Boat Basin Dredging and Repairs on Marina Breakwater at McGee Beach – Project will advertise for bid in March 2020 - City & POCCA Legal Departments will coordinate to settle on mutually acceptable agreement language for the DMPA site.

4. Salt Flats Levee Improvements – Project design is underway. A technical memorandum from the design consultant is due on March 17, 2020.
5. Floodwall Upgrades at Science Museum and USACE Building – A large design contract will be presented to Type A Board on March 16, 2020 for recommendation and then the contract will be presented to City Council in March 2020.
6. Kinney and Power Street Pump Station Improvements – Final Engineering Letter Report was submitted in December 2019. Most of the recommended projects are improvement to the storm drainage system. A project that would enable better flow between the two pumping stations may be considered for inclusion in the Seawall CIP.
7. Comprehensive Feasibility Study for Seawall CIP – The consultant is under contract. Project nomination forms have been distributed.

### **PROJECT SUMMARIES:**

#### **1. Seawall Capital Repairs (Design):**

- **Budget: \$1,700,000**
- **Design Contract Approved by Type A: October 2018**
- **Design Contract Approved by City Council: October 2018**
- **Estimated time of Completion: December 2020**

#### **COMPLETED TO DATE:**

- Consultant inspected Seawall to determine required repairs.
- Presented inspection findings to the Type A Board at the April 2018 meeting.
- Design contract with Munoz Engineering for required repairs approved by the Type A Board and City Council in October 2018.
- 60% Design submitted for City review on 01/07/19.
- Anticipated schedule is to bid the plans starting in August 2019, with construction starting in late fall 2019.
- 90% Submittal behind schedule; working with Consultant to get the submittal completed.
  - Additional scope may be added – the street retaining walls where Peoples, Lawrence, and Coopers Alley cut through the seawall also need repairs. Contract amendment pending. Additional scope will affect project schedule.
- 90% Submittal received 07/29/19; reviewed by City staff, and comments provided to the AE.
- AE & City Utilities working to identify the cause of Mirador water fountains not working. Required repairs will be incorporated into the plans.
- 100% submittal received September 13, 2019.
- **Final Design completed in January 2020.**

#### **NEXT STEPS:**

- **Project is currently advertised for bid. Bid opening scheduled for March 4, 2020.**
- **Award Construction Contract**

## **2. Restoration of SEA District Water Features (Design):**

- **Budget: \$1,400,000**
- **Design Contract Approved by Type A: December 2018**
- **Design Contract Approved by City Council: May 2019**
- **Estimated time of Completion: August 2020**

### **COMPLETED TO DATE:**

- This project will restore the SEA District water features (Water Garden Fountain and Bayfront Fountain) by correcting electrical, mechanical and other problems to restore the maintenance and operability of both features.
- Design contract negotiated; approved by the Type A Board in December 2018.
- Design contract scheduled for City Council review and approval (second reading) on February 12, 2019.
- Contract on hold. Reviewing temporary options that will work with the long-term solution.
- City Council approved the Design contract in May 2019.
- Notice to Proceed issued on June 4, 2019.
- Draft Engineering Letter Report submitted for City review on August 2, 2019.
- Final Engineering Letter Report submitted August 21, 2019
- New Opinion of Probable Construction Cost (OPCC)
  - Base Bid - \$3.57M
    - Water Gardens Fountain - \$2.95M
    - Bayfront Park Fountain - \$600,000
    - Bayfront Park Kiosk and Wind Features - \$45,000
  - Alternates - \$1.33M
- Design Notice to Proceed issued August 26, 2019

### **NEXT STEPS:**

- **Anticipate advertising for bids in February 2020.**
- **Award Construction Contract**

## **3. McGee Beach Nourishment/ Boat Basin Dredging Project (Design):**

- **Budget: \$2,700,000**
- **Design Contract Approved by Type A: August 2018**
- **Design Contract Approved by City Council: September 2018**
- **Estimated time of Completion: Spring 2021**

### **COMPLETED TO DATE:**

- Engineering Services Staff met with Marina staff to discuss the need for dredging within the Marina.
- Recommendation made to amend the “Repair on Marina Breakwater at McGee Beach” project to include dredging in the Marina.
  - Starting with a new contract will make the project easier to track, since these are separate CIP projects, yet still allows for a more economic and cost-efficient execution of the projects by incorporating the dredging tasks into the plan set with the breakwater repairs.
- Design contract approved by the Type A Board in August 2018.

- Design contract approved by City Council in September 2018.
- Project team coordinated with USACE regarding required permitting on 10/18/18.
- 60% Design submitted for City review on 10/24/18.
- 100% Design submittal delayed - schedule modified to allow time to secure a DMPA site (see discussion below) prior to finalizing the bid documents.
- Scope/budget summary provided with the February update.
  - Plan to bid project with a Base Bid and Additive Alternates.
  - Additive Alternates will only be awarded if funding is available.
  - Project Construction Budget = \$1,050,196
  - Base Bid Construction Estimate = \$1,125,000
  - Additive Alternate Construction Estimate = \$2,977,400
- There is not enough “beach quality” dredge material in the Marina Basin to nourish McGee Beach. All dredged material will be disposed of in another location.
- March 2019 – Amendment Notification Letter submitted to USACE for Modification to Existing McGee Beach Placement Permit.
  - Beach nourishment modification withdrawn because USACE interpreted proposed action not as a simple change, but a change that would require a Standard Individual Permit.
  - The dredge material for this project will not be placed on McGee Beach, so the expense of a Standard Individual Permit was not warranted.
- City staff and Consultant working with the Port of Corpus Christi Authority (POCCA) to secure a Dredge Material Placement Area (DMPA) for the material being removed from the Marina basin.
  - The traditional DMPA’s (located closest to the site) are not available due to upcoming dredging projects by the POCCA and USACE.
    - Traditional DMPA’s are enclosed on all sides with a levee system.
  - A non-traditional DMPA site is available that might have capacity for both the base and alternate bid quantities. However, the site has not been surveyed in some time and the POCCA is unsure how much capacity is there within the existing partial levee system.
    - This site is only enclosed on 3 sides and sheet flows to the south.
    - Prior to the City placing material, the POCCA requires that the City perform a survey and prepare a placement plan for their review and acceptance along with a Sampling and Analysis Plan (SAP).
    - Some Geotechnical work may be required to confirm that tracked equipment can be used and the existing soil can support this equipment.
    - Depending on the existing levee heights and the amount of material to be placed, a stability analysis might be needed to ensure the levees have adequate stability to support increased soil height behind the levees.
  - Securing an area in advance of Construction ensures the project can be completed (i.e. the Contractor will have a place to take the dredged material). Not securing a DMPA could result in the dredging portion of the project being deferred to a later date.

- Securing a DMPA site will require an agreement between POCCA and/or USACE and the City, and payment of 90% of the estimated fees up front. Agreements are site dependent.
  - Coordination with POCCA underway; City & POCCA Legal Departments will coordinate to settle on mutually acceptable agreement language.
- Small contract amendment executed to add the DMPA site survey and design to AE's contract. This additional work may impact the overall schedule.
- Dredging permit application submitted to USACE on March 4, 2019; included with the breakwater repair permit request.
  - Response from USACE on March 28, 2019 required some revisions to the submitted application for the dredging portion only.
  - The 2 permit actions were decoupled so the breakwater repair permit could be processed while revisions were made to the dredging portion.
  - Dredging permit approved on August 27, 2019.

#### **NEXT STEPS:**

- **Advertise for bid in March 2020.**
- Coordination with Port of Corpus Christi
- Finalize Design Documents
- Award Construction Contract

#### **Repair on Marina Breakwater at McGee Beach (Design):**

- **Budget: \$3,250,000**
- **Design Contract Approved by Type A: February 2018**
- **Design Contract Approved by City Council: March 2018**
- **Estimated time of Completion: Spring 2021**

#### **COMPLETED TO DATE:**

- Design contract approved by the Type A Board in February 2018.
- Design contract approved by City Council in March 2018
- Project Kick-off Meeting held on 04/09/18.
- Recommendation made to amend the Repair on Marina Breakwater at McGee Beach project to include dredging in the Marina.
  - Nourishment/Dredging tasks incorporated into this project, but approved through a separate, new contract instead of amending the Breakwater contract. This will make the project easier to track, since these are separate CIP projects, yet still allows for a more economic and cost-efficient execution of the projects by incorporating the dredging tasks into the plan set with the breakwater repairs.
  - Nourishment/Dredging design contract approved by the Type A Board in August 2018.
  - Design contract approved by City Council in September 2018.
  - Project team coordinated with USACE regarding required permitting on 10/18/18.
  - 60% Design submitted for City review on 10/24/18.

- 100% Design submittal delayed - schedule modified to allow time to secure a DMPA site (see discussion for the McGee Beach Nourishment/ Boat Basin Dredging Project) prior to finalizing the bid documents.
- Stakeholders requested modifications to the design; AE reviewing the effect of the requested changes on the permitting that's already been approved, and the design budget/schedule.
- Breakwater Repair permit application submitted to USACE on March 4, 2019; included with the Dredging permit request.
  - Response from USACE on March 28, 2019 required some revisions to the submitted application for the dredging portion only.
  - The 2 permit actions were decoupled so the breakwater repair permit could be processed while revisions were made to the dredging portion.
  - Nationwide Permit Verification received from USACE on July 1, 2019 for the Breakwater Repair portion of the project.

**NEXT STEPS:**

- Finalize Design Documents
- Award Construction Contract

**4. Salt Flats Levee Improvements (Design):**

- **Budget: \$2,800,000**
- **Design Contract Approved by Type A: September 2019**
- **Design Contract Approved by City Council: October 2019**
- **Estimated Time of Completion: Spring 2021**

**COMPLETED TO DATE:**

- Selected AE consultant (HDR) requested revisions to contractual provisions. Selected consultant could not come to terms with City standard contract language.
- Project has been re-RFQ'd, and a new consultant selected.
  - Govind Development, LLC selected as the new consultant on February 14, 2019.
  - Contract negotiations started in April 2019.
  - Small contract will not be processed and executed.
- Design contract negotiated; on the September 2019 Type A Board agenda for review and approval.
  - September 2019 - Type A Board approved the design contract, and recommended City Council approval.
  - City Council approved the design contract on October 15, 2019. Notice to Proceed issued.
  - First submittal anticipated for mid-March 2019.

**NEXT STEPS:**

- **A technical memorandum from the design consultant is due on March 17, 2020.**
- Finalize Design Documents
- Award Construction Contract

## **5. Floodwall Upgrades at Science Museum and USACE Building (Contract Negotiations):**

- **Budget: \$3,250,000**
- **Approved by Type A: August 2018**
- **Approved by City Council: September 2018**
- **Estimated time of Completion: Fall 2022**

### **COMPLETED TO DATE:**

- Provides a new floodwall (or a coastal structure) that extends from the Promenade under the Harbor Bridge to the USACE Bulkhead, with backfill in the triangular area between the new wall and existing wall location.
- Selected AE consultant (HDR) requested revisions to contractual provisions. Selected consultant could not come to terms with City standard contract language.
- Project has been re-RFQ'd, and a new consultant will be selected.
  - Jacobs Engineering Group, Inc. selected as the new consultant on February 14, 2019.
  - Contract negotiations anticipated to be initiated in March 2019.
- The project scope may be expanded to include the area in front of the USACE building.
- City and POCCA staff continue coordination efforts regarding proposed location of floodwall on POCCA owned property.
  - Meeting scheduled with POCCA on 02/08/19 to discuss their new building and coordinating with this project.
- City anticipates executed a small contract with Jacobs to get the project started. A large contract amendment will follow for the full design and construction phase services.
  - Small contract executed in July 2019.
  - Large contract amendment will need to be approved by the Type A Board and City Council.
- Coordination meetings with POCCA:
  - May 15, 2019 - discuss development of Port owned property and coordination with City's plans.
  - July 12, 2019 – discuss specific site layout concepts and opportunities/strategies for collaboration.
- Coordination meetings with SEA District Stakeholders:
  - Meeting held with SEA District stakeholders in August 29, 2019.
  - Planning stakeholder meetings for October 2019.

### **NEXT STEPS:**

- **Present Design Contract to Type A Board in March 2020**
- **Present Design Contract to City Council in March 2020**
- Coordination with Corps of Engineers, Port of Corpus Christi and SEA District Stakeholders
- Finalize Design Documents
- Award Construction Contract

**6. Kinney and Power Street Pump Station Improvements (System Assessment):**

- **Budget: \$5,300,000**
- **Approved by Type A: August 2018**
- **Approved by City Council: September 2018**
- **Estimated time of Completion: TBD**

**COMPLETED TO DATE:**

- This project evaluates the capacity of the existing 2 pump stations to determine the feasibility of interim solutions to maximize the capacity at the Kinney and Power Street Pump Stations before a major investment for a potential third pump station.
- Urban Engineering was the AE Selected through the RFQ process to assess the existing pump stations, determine if any improvements can be made, and prepare cost/benefit analysis for any recommended improvements.
- Professional services contract approved by the Type A Board in August 2018.
- Professional services contract approved by City Council in September 2018.
- System assessment underway.
- Initial Assessment and Improvements Presentation Meeting held in May 2019. Report reviewed by City staff and comments provided to AE.
- AE modeling recommended system modifications to determine if there are any cost-effective improvements that can be made to the pump station systems.
- **A final report has been delivered. Most of the recommended projects are improvement to the storm drainage system. A project that would enable better flow between the two pumping stations may be considered for inclusion in the Seawall CIP.**

**NEXT STEPS:**

- **Nominate project for future CIP**

**7. Comprehensive Feasibility Study for Seawall (Contract Negotiations):**

- **Budget: \$3,750,000**
- **Approved by Type A: August 2018**
- **Approved by City Council: September 2018**
- **Estimated time of Completion: TBD**

**COMPLETED TO DATE:**

- This project will identify project needs and prioritization to develop a strategic short and long-term Capital Improvement Plan (CIP). The last effort to develop a comprehensive CIP for Type A projects was completed 10 years ago. The selected firm will conduct workshops with stakeholders, and deliverables will include project descriptions and budgetary cost estimates for all selected projects.
- HDR Engineering, Inc. selected as the consultant on February 14, 2019.
- Contract negotiations initiated in October 2019. Contract taken to Type A Board in December 2019.
- **Contract awarded in January 2020.**

**NEXT STEPS:**

- Approve and award Study contract
- Schedule a workshop for project nomination/input.
- Finalize Feasibility Study Documents



**ATTACHMENTS:** Type A Board Presentation