



**Port of Palm Beach  
Engineer's Report  
Commission Meeting | January 18, 2018**

**Berth 17 and Paving Project**

Construction activity has progressed slowly since the December board meeting. The Contractor completed the scheduled activities related to the construction of the bulkhead with only the connection to existing structures on the north and south side pending. The installation of rebar, steel forms and casting of the walls that comprise the south bulkhead berth connection to the existing FPL bulkhead structure are completed. The connection to the existing structure on the north side, Slip 3, casting process has started but the steel forms gave out during the concrete pour and the casting was not completed. The contractor proceeded to remove all the poured concrete in order to perform the pouring again. The completion of this work is still pending. Also related to the north wall, the repairs of the north bulkhead concrete structure are still in process, with only the water side pending to be completed.

The pile driving activity for the dolphin structures is completed, with the piles for the west and middle dolphin structures testing reports approved by AECOM for construction of concrete cap to begin. The piles test results for the outer (east) dolphin structure were evaluated by AECOM, determining that the actual capacity of the four driven piles did not meet the required designed requirements. After further evaluation, AECOM determined that two additional piles needed to be driven on the east dolphin structure location, in order to meet the structure design capacity. The addition of two (2) piles, will increase the overall dimensions of the concrete structure, as well as reinforcing the steel quantities.

In order to install and test the additional two piles required for the east dolphin structure, the FDEP will have to provide a temporary permit to perform the pile driving activity during the Manatee Restriction Period which began on November 15 and concludes on March 31, 2018. The installation of two additional piles to the Dolphin Structure will signify a change in the construction scope of work, a Change Order to the Construction Contract, with increase of project cost and construction time to the already delayed project schedule.

Regarding the substantial completion date of December 5 for the delivery of the Berth as requested by the Port, it was not accomplished by the Contractor. LMH has submitted many project schedule update for the completion of the Berth 17, with the last one been submitted on December 27, 2017, with a substantial completion date of February 16, 2018. The provided substantial completion date, does not consider the completion date of the East Dolphin Structure, or any other work related to it. On this project update, the contractor indicated that the project will be substantially completed but the water side of the project will be still pending due to the construction of the East Dolphin Structure.

LMH's new substantial completion dates to deliver the Berth in order to accommodate a vessel as per updated schedule submitted on December 27:

- Upland Work – February 15, 2018.
- Bulkhead Structure – February 1, 2018.
- Dolphin Structures – February 16, 2018.

The proposed substantial completion date of February 15 for the upland work does not consider the completion of the east dolphin structure still under redesign by AECOM. The dolphin structure work will require a construction access pathway to provide equipment and material delivery to the water side working area. The access path will impede the completion of the upland final pavement surface until the dolphin structure is completed.

Based on the historical facts, the substantial completion date of the Berth by LMH has been and will continue to be unknown until it is finally accomplished. At this point, the Port should take in consideration all present and future damages, directly and indirectly caused by the project completion delay. The Port shall exercise the terms of the Contract, and execute the entitlement to retain Liquidate Damages in order to mitigate present and future Losses related to the project completion delay.

As of September pay application draft, LMH invoices indicate that approximately 78% (\$8,049,608.94 to date / \$2,368,958.06 balance of approved modified Contract amount) of the work is complete to date. The contractor has not submitted the final September pay application yet.

### **MOB Demolition and Cargo Area Improvement Project**

CH2MHILL completed the process of the preparation of the first package delivery with the 35% completed design set. The design 35% package includes the assessment of the available plans and information related to existing structures and utilities located inside the area impacted by the demolition and improvement construction activities.

All the assessment and coordination efforts in process are part of the scheduled design period included in the Staff's project timeline. With the design process entering the last month of the design period.

Tropical Shipping design team has provided CH2MHILL with the layout for the final location of the Reefers Containers and Proposed Strad Reefers Stacks. The 65% completed design package is expected to be completed by end of January 2018 and 100% completed package by the beginning of February 2018.

### **Berth 1 Underwater Re-inspection and Updates Condition Report**

During the October Meeting, the Board approved a Work Order to CH2MHILL for the Underwater Re-inspection and Updates Condition Report of Berth 1. The inspection was performed on the days of 14 and 15 of November. The Final Underwater Evaluation Report was provided to the POPB on December 21, 2017.

Port Staff will request the Board of Commissioners to approve to advertise for Request for Proposals for the repairs of the Berth 1 bulkhead as recommended by CH2M report.

### **Main Rail Spur Improvement Phase 1**

At the October 2017 meeting, the Board of Commissioners approved the Port's Executive Director to execute the Contract Award for the On-Port Rail Facility Expansion Project Phase One construction project to González and Sons Equipment, Inc., lowest responsive and responsible bidder, in the amount of \$971,154.96.

PROJECT: MAIN RAIL IMPROVEMENTS PROJECT - PHASE 1

CONTRACTOR: GONZALEZ & SONS EQUIPMENT, INC.

CONTRACT AMOUNT: **\$957,154.96**

CONTRACT EXECUTED: DECEMBER 15, 2017.

NOTICE TO PROCEED DATE: JANUARY 2, 2018.

CONSTRUCTION TIME: 220 DAYS

CONSTRUCTION COMPLETION DATE: AUGUST 24, 2018.