



## Memorandum

**To:**  
**From:** Ed English  
**Date:** August 11, 2017  
**Subject:** August 14, 2017 Project Update  
**File:** Pier 5-7 Marina Reconstruction

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The City of Hamilton made a strategic decision to invest upwards of \$11 million in new infrastructure and amenities to promote the continuation and future expansion of recreational boating in the West Harbour. To this end the City procured Kropf Industries for the manufacturing, assembly, and installation of the new marina in the City's Main Basin. Phase 1 is the replacement of the existing 400 slip marina. Phase 2 will be an expansion to the marina to approximately 650 slips.

Kropf started their work with the removal and demolition of the existing marina. This work began November 14, 2016, when the last boat was removed from its slip. Removals and demolition was completed by the end of February 2017.

Work began on the installation of the new main docks and fingers on February 1, 2017 and was scheduled for completion by May 15, 2017; however, high lake levels and unanticipated weather events have resulted in installation and electrical hook-up delays that has required staging of boat launches and the need for temporary shore power. See below for more detail. The revised date for substantial completion of the project is July 11<sup>th</sup> for mains and fingers; amenity building and gazebo platform schedule to be forthcoming.

### Work Completed to Date

#### A Docks

- A1-A6 mains and fingers complete.
- A1-A6 electrical equipment is complete.
- A1-A6 water servicing complete.
- All cleat installations complete.
- Fenders complete.
- Security Gate
- Ladders complete.

#### B Docks

- B1-B8 mains and fingers complete.
- B1-B8 electrical equipment is complete.
- B1-B8 water servicing complete.
- Cleat installations complete.
- Main panel and terminations complete.
- Electrical feed from shoreline complete.
- Fenders complete.
- Ladders complete.

## C Docks

- C1-C11 mains complete.
- C1-C4, C6, C8, C9, C10, C11 fingers complete. (\*C11 one short)
  
- C5, C7 fingers 50% complete until amenity building installed on Main C Dock
- Electrical sub-stations are installed.
- C1-C11 electrical cable installed.
- C1-C11 watermains installed.
- Sewer forcemain from floating amenity building location to shoreline complete.
- Pedestals C1-C7 installed.

## Ramps

- A6 South ramp installed.
- A6 North ramp not installed due to high water. Access to B Docks from A6 is installed.
- A1 Ramp is installed and secured on a temporary (but safe) basis, due to the high water.
- C1 Ramp is installed and secured on a temporary (but safe) basis, due to the high water.

## **Schedule of Work to be completed**

Subject to weather and ability to complete electrical connections with record high water levels the following work should be completed by the dates listed below.

### A Docks

- Firehouses August 18<sup>th</sup>.

### B Docks

- Firehouses August 25<sup>th</sup>.
- Security gate September 1<sup>st</sup>.

### C Docks

- Remaining 50% of C5, C7 fingers completed after amenity building installed on main C Dock.
- Primary Power to C11 by August 18<sup>th</sup>. (by primary generator)
- Firehouses August 25<sup>th</sup>.
- Amenity Building September 8<sup>th</sup> completion; floated and installed on C Docks September 15<sup>th</sup>.

## **Impacts of Weather**

A significant amount of production time has been lost this spring due to both rainfall and high winds (more than 15mm per day and winds greater than 40km/h gusting affects production). The total number of days of lost production due to weather is approximately 40 days.

The highest lake levels on record have proven to be a difficult condition; as a result connections to services (electricity and water) and permanent securing of the ramps to shore have been delayed and will require temporary connections in the interim. Permanent connections for services and the ramps will be delayed until the water level has dropped to adequate levels.

## Floating Breakwaters

The floating breakwaters are currently being repaired at the northeast section following a failure in the end joint. The City's contractor and consultant are on site doing repairs and will be installing wave gauges to monitor the performance of the floating breakwaters throughout the 2017 boating season.

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