



Memorandum

To: Lee R. Feldman, City Manager
From: Alan Dodd, Deputy Director of Public Works
Date: March 14, 2017
Re: Emergency Repair to Riverwalk Seawall east of Andrews Avenue

The city has declared the area of the undermining of the Riverwalk Seawall east of Andrews Avenue an emergency for repair on March 7, 2017.

Staff visited the site and observed that a portion of the ground behind the seawall has collapsed (the seawall itself has not collapsed). The seawall along the north bank of the river sits on wood piles, and inspection videos show the wood piles are exposed by approximately 8 feet and damaged. It is believed the fixity of the piles have shifted downward do to scouring occurring 4 to 5 feet behind the wall. Other portions of the seawall were also found to be undermined, where the bottom of the seawall no longer touches the riverbed. Currently, only the pile cap is believed to be holding the seawall in place, which the cap was not designed to do structurally.

The seawall on the south bank of the river has lost 8 feet of berm. The loss of the berm can cause the concrete panels to begin kicking out, due to the migration of sub-base material into the river. The migration of the sub-base material will also affect the foundations of both the tender house and stair system, if not addressed.

cc: Lee R. Feldman, ICMA-CM, City Manager
Alan Dodd, PE, Deputy Director of Public Works
Paul Berg, ICMA-CM, Public Works Director
Chris Bennett, PE, Assistant City Engineer
Marlon Lobban, PE, Senior Project Manager
Raymond Nazaire, PE, Project Manager II