KING COUNTY FLOOD CONTROL DISTRICT

Board of Supervisors

Staff Report

Agenda Item:	6	**Name:**	Mark Hoppen
Proposed No.:	FCD2015-0X	**Date:**	March 16, 2015

SUBJECT

RESOLUTION adopting an agreement for levee construction, operation and maintenance of the Russell Road Upper Levee – North Reach and South Reach, River Mile 19.25 to 20.4, Right Bank.

BACKGROUND

The Russell Road Upper Levee – North Reach and South Reach ("Levee") is a key part of the Green River levee system. The District Board of Supervisors has agreed to improve the Levee by constructing a new secondary earthen levee described and shown in Exhibit A to the revised agreement as part of a longer term plan for a setback levee in this area. The Levee Project has been planned for construction from 2013 through 2016.

By Resolution FCD 2012-09.3, adopted on November 5, 2012; FCD 2013-14.3, adopted on November 12, 2013; and FCD 2014-14.3, adopted on November 3, 2014, the District Board of Supervisors determined that the flood control improvements included in those Resolutions generally contribute to the objectives of the District's comprehensive plan of development. In those Resolutions, the District Board of Supervisors also approved funding for the Project.

Pursuant to Resolution FCD 2013-12.1, the King County Flood Control District and the City of Kent entered into the "Agreement for Levee Construction, Operation and Maintenance, Russell Road Upper Levee-North Reach, River Mile 19.5 to 19.8, Right Bank" relating to the North Reach portion of the Project ("North Reach Agreement"). Pursuant to the North Reach Agreement, the North Reach Levee was constructed in 2013.

Pursuant to Resolution FCD 2014-02.1, both jurisdictions entered into the "Agreement for Levee Construction, Operation and Maintenance, Russell Road Upper Levee-North Reach and

South Reach, River Mile 19.25 to 20.4, Right Bank" relating to the North and South Reaches of the Project ("2014 Agreement"). Pursuant to the 2014 Agreement, construction on a portion of the South Reach Levee located at the James/Russell intersection was started in 2014, and property necessary to construct the South Reach Levee located along the Lakes Community will be acquired.

The revised agreement amends and re-states the 2014 Agreement, and includes construction of the remaining portion of the South Reach Levee along the Lakes Community, which has an anticipated start date in 2015.

The Russell Road Upper Levee Project

The Russell Road Upper Levee is located along the right bank (easterly side) of the Green River between River Mile 19.25 and 20.4, which is approximately from S 231st Way to the Riverbend Golf Complex. The Russell Road Upper Levee, which includes the North Reach and South Reach, protects properties within the cities of Kent, Tukwila and Renton. Multi-family residences and single family residences, the City's Maintenance Operations Facility, Russell Woods Park, Neely-Soames Historic Homestead and Riverbend Golf Complex are located adjacent to the Levee.

Before the construction improvements were completed in 2013, the North Reach, approximately 1,190 linear feet, did not meet slope and stability requirements and needed improvements to meet FEMA accreditation standards. This section of Levee is located between RM 19.5 and 19.8. This section of Levee is on the outside of a sharp bend in the river and the slope of the riverbank has indications of minor slumping of soils. The recently constructed North Reach levee provides greater than 3 feet of freeboard above the predicted 100-year flood event, which exceeds FEMA standards for accredited levees.

The South Reach, approximately 1,800 lineal feet, does not meet slope and stability requirements and needs improvements to meet FEMA accreditation standards. This section of Levee is located between RM 20.1 to 20.4, which is located on a sharp outside bend in the river and has indications of minor slumping in the soils. Once constructed, the South Reach will provide greater than 3-feet of freeboard above the predicted 100-year flood event, which exceeds FEMA standards for accredited levees.

District funds for the South Reach portion of the Project will allow construction of the South Reach Levee along the Lakes Community, the City's Public Works Maintenance Operations Facility, Parks Maintenance Facility and Riverbend Golf Complex. District funds previously appropriated have allowed construction of the North Reach, the setback levee at West James Street and Russell Road, and the acquisition of necessary properties and easements to complete the work.

ANALYSIS

The work will complete previous levee construction efforts and allow the South Reach Upper Russell Road levee to meet current design and FEMA accreditation standards for Green River levees.

SUMMARY

The resolution and agreement authorize the signature of the chair to the agreement to complete this culminating portion of the current Russell Road Upper Levee project.