



BUSINESS OF THE CITY COUNCIL CITY OF MERCER ISLAND

AB 5882
June 1, 2021
Consent Calendar

AGENDA BILL INFORMATION

TITLE:	AB 5882: King County Sewer North Mercer Enatai Interceptor Interagency Agreement	<input type="checkbox"/> Discussion Only
RECOMMENDED ACTION:	Authorize the City Manager to sign the interagency agreement with King County	<input checked="" type="checkbox"/> Action Needed: <input checked="" type="checkbox"/> Motion <input type="checkbox"/> Ordinance <input type="checkbox"/> Resolution

DEPARTMENT:	Public Works
STAFF:	Jason Kintner, Chief of Operations Alaine Sommargren, Deputy Director Public Works
COUNCIL LIAISON:	Lisa Anderl
EXHIBITS:	1. North Mercer Island / Enatai Sewer Upgrade Project Map 2. Interagency Agreement between the City of Mercer Island and King County for the Construction of Modifications to City of Mercer Island Lift Station 11 and Transfer of Pipeline
CITY COUNCIL PRIORITY:	1. Prepare for the impacts of growth and change with a continued consideration on environmental sustainability.

AMOUNT OF EXPENDITURE	\$ n/a
AMOUNT BUDGETED	\$ n/a
APPROPRIATION REQUIRED	\$ n/a

SUMMARY

The purpose of this agenda bill is to authorize the City Manager to sign an Interagency Agreement ("IAA") with King County ("County") for the construction of the North Mercer Island and Enatai Sewer Upgrade Project ("Project"). The Project includes several improvements to City stormwater and sewer utility facilities, and the transfer of select sewer pipelines to the County.

The Project will begin this fall and is anticipated to be complete in 2024. City staff are working closely with the County to coordinate messaging, including advance notice of street closures and traffic impacts.

PROJECT BACKGROUND

Beginning in Fall 2021, the King County Wastewater Treatment Division will replace sewer pipes that serve areas in north Mercer Island, the southwest portion of Bellevue near Enatai Beach, and the Town of Beaux Arts Village. These pipes, which are owned and maintained by the County, carry wastewater from their North Mercer Island Pump Station to the Swaylocken Pump Station in Bellevue (see Exhibit 1). Installed during the 1970s, these pipes are aging and reaching capacity. The new pipes will provide service for the next 50 - 60 years.

The Project includes a new sewer pipe along the northeast side of Mercer Island (“North Mercer Interceptor”), a new pipe across Lake Washington, and a new sewer pipe in Bellevue from Enatai Beach Park to the Sweyolocken Pump Station, as well as rehabilitation of the existing pipe that runs from Enatai Beach Park to the Sweyolocken Pump Station. The Project includes upgrades to the County’s North Mercer Pump Station and the City’s Lift Station 11.

Design for the Project began in 2016 and continued into early 2021. During design, County staff and consultants worked closely with City of Mercer Island Engineering, Utilities and Parks staff on various elements of the Project. County staff also presented to the Utility Board several times during the development of the Project, detailing the scope of work as design progressed and addressing concerns about impacts to residents. Construction of the Project on Mercer Island is expected to begin in Fall 2021 and conclude in 2024.

AGREEMENT HIGHLIGHTS

The IAA (see Exhibit 2) establishes the County as the lead agency for the design and construction of all elements of the Project. The County will provide the City with as-built drawings for portions of the Project that fall within the City, which will be used to update mapping of all utility locations. The agreement also specifies that the City may seek reimbursement for all staff and contractor work required to fix any damages incurred to City utilities during the course of the Project.

The IAA details particular elements of the Project that will impact City infrastructure and assigns responsibility for costs associated with each alteration or improvement.

Relocation of City Utilities

Approximately 375 feet of water line, 360 feet of sewer line, and 130 feet of stormwater drainage line must be relocated to accommodate the construction of the North Mercer Interceptor. City staff have reviewed and approved all new locations and materials for these relocated utilities. The County will pay for all utility relocations listed in Section 4.6 and indicated in Exhibit B of the IAA.

Stormwater Drainage Improvements on 90th Place SE

A portion of the North Mercer Interceptor will be constructed in the 90th Place SE roadway, which will impact the current storm drainage ditch along the road’s edge. The County will pipe the ditch to temporarily widen the roadway to maintain vehicular access around the construction. The pipes will remain as part of the City’s permanent drainage system at no cost to the City. The County will bear the cost of all peripheral work, including the full-width restoration of the roadway surface.

In order to improve stormwater drainage on the street, however, the City has requested that the County add several new storm drainage lines. The cost of this additional work is the responsibility of the City. The specific storm drainage components are outlined in green boxes in Exhibit B.

The County’s estimated cost for the City’s portion of the stormwater drainage work along 90th PI SE is \$91,000. The actual cost for this work will be determined once the construction contract has been awarded. Budget appropriation for this portion of the Project will be included in the 2023-2024 CIP budget proposal as a Stormwater Fund project.

Lift Station 11 Modifications

Lift Station 11 ("LS11"), the current wet well/dry well pump station located at the Fruitland Landing Street End Park, will need to be significantly upgraded to accommodate increased flows from the project. LS11 was originally constructed in the 1950s and 1960s and was expected to have a lifespan of approximately 50 years. During an assessment of the facility in 2018, the County's consultant noted that portions of the structure have deteriorated significantly, consistent with its age and exposure to wastewater.

The County will construct significant upgrades and modifications to LS11 as a part of the Project and at the County's cost. Improvements include a new vault, access hatches, sewer pumps, valves, pipes, and controls and the conversion of the dry well into a new wet well. The LS11 portion of the Project will also include approximately 270 feet of new sewer main, site restoration, and new landscaping for the waterfront portion of Fruitland Landing. The County's estimated cost for modifications to LS11 is \$791,000.

The IAA stipulates that, as a part of the LS11 modifications, the City will design, acquire, and install a new standby generator for the lift station. The original generator reached the end of its useful life. City staff completed design of the generator in 2019, and the generator was installed in 2020. The amount budgeted for this project was \$120,000, but once closed out, is projected to cost approximately \$106,000.

Once all modifications to LS11 have been completed, the City will resume its operation of the facility and assume responsibility for future maintenance and repairs to the structures and equipment.

Transfer of 96th Ave SE sewer pipeline to the County

The 96th Avenue SE pipeline, which extends between SE 36th St (in front of City Hall) northward to 96th Ave SE, is currently owned and maintained by the City. This 450-foot-long stretch crosses under the I-90 corridor, and as such, its depth makes it very difficult to access for maintenance. The location of this pipeline is shown in Exhibit A. As a part of the Project, the City will transfer the ownership of the pipe and all responsibility for operations, maintenance, and repairs to the County. The bill of sale for this pipeline is attached to the IAA as Exhibit C.

The County will install two new manholes at the south end of this pipeline to ensure that the City can continue to access and maintain its sewer pipes, which feed into the 96th Ave SE pipeline. All construction associated with 96th Ave SE pipeline modifications will be paid for by the County.

Not only will the North Mercer Interceptor improve the reliability and capacity of the County's sewer line that carries North Mercer Island wastewater to the County's Renton treatment facility, but this project also includes major improvements to several parts of the City's utility system and repaves the roadways along the sewer alignment. Replacement of older utility pipes and appurtenances, upgrades to the LS11 facility, and the transfer of the 96th Ave SE pipeline will reduce City maintenance and operation costs significantly. In addition, with the County serving as the lead agency for all bidding, contracting and project management, the City realizes considerable benefit in reducing staff workload and costs associated with these improvements.

City staff will continue to work closely with County staff to ensure that all work performed on City utilities and property meets or exceeds City standards.

RECOMMENDATION

Authorize the City Manager to sign the interagency agreement with King County.