



City of Culver City

Staff Report Details (With Text)

File #: 18-0494 **Version:** 1 **Name:** Diversion Sewer Pipelines to Bankfield Sewer Pump Station
Type: Minute Order **Status:** Consent Agenda
File created: 11/3/2017 **In control:** City Council Meeting Agenda
On agenda: 7/9/2018 **Final action:**
Title: CC - Approval of Final Plans and Specifications and Authorization to Publish a Notice Inviting Bids for the Diversion of Sewer Pipelines to the new Bankfield Sewer Pump Station located at 5722 Bankfield Avenue, PZ-946.

Sponsors:

Indexes:

Code sections:

Attachments:

Date	Ver.	Action By	Action	Result
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CC - Approval of Final Plans and Specifications and Authorization to Publish a Notice Inviting Bids for the Diversion of Sewer Pipelines to the new Bankfield Sewer Pump Station located at 5722 Bankfield Avenue, PZ-946.

Meeting Date: July 9, 2018

Contact Person/Dept: Mate Gaspar/Public Works Department

Phone Number: 310-253-5602

Fiscal Impact: Yes No **General Fund:** Yes No

Public Hearing: **Action Item:** **Attachments:**

Commission Action Required: Yes No **Date:**

Public Notification: (E-Mail) Meetings and Agendas - City Council (07/03/18);

Department Approval: Charles D. Herbertson, Public Works Director/City Engineer (06/28/18)

RECOMMENDATION

Staff recommends the City Council approve the final plans and specifications and authorize the publication of a notice inviting bids for the Diversion of Sewer Pipelines to new Bankfield Sewer Pump Station located at 5722 Bankfield Avenue, PZ-946.

BACKGROUND

The City of Culver City owns and maintains seven (7) sewage pump stations at the following locations:

1	Braddock Station - 11285 Braddock Drive <i>Reconstructed in 2011</i>
2	Fox Hills Station - 5900 Sepulveda Boulevard <i>Constructed in 1976</i>
3	Bristol Station - 6399 Bristol Parkway <i>Constructed in 1968</i>
4	Jasmine Station - 4496 Jasmine Avenue <i>Reconstructed in 1996</i>
5	Hayden Station - 8620 Hayden Place <i>Constructed in 1976</i>
6	Mesmer Station - 5586 Mesmer Avenue <i>Reconstructed in 1993</i>
7	Overland Station -5300 Overland Avenue <i>Constructed in 1972</i>

These sewage pump stations are necessary in order to pump sewage from low lying areas into gravity systems at higher elevations that ultimately flow to the City of Los Angeles Hyperion Sewage Treatment Plant. These pump stations are maintained by the Culver City Public Works Department Maintenance Operations Division. The electrical components, sewer pumps, wet wells, valve vaults, and force mains, need to be monitored and maintained to assure proper function.

In 2008, as authorized by the City Council, an engineering study was conducted to determine if the seven sewer pump stations could be consolidated to fewer pump stations. It was determined that it is possible to divert flows from four sewer pump stations to a new sewage pump station located immediately southeast of the 405 and 90 freeways. For this project, due to the available budget, only the Mesmer Station and Overland Station will be diverted to the proposed Bankfield Station. The other two stations, Bristol and Fox Hills, will be diverted to the proposed Bankfield Station at a later date when sufficient funding becomes available. Also, the Mesmer Station is proposed to be repurposed to a low flow diversion project. The low flow diversion system will capture dry weather run-off from Centinela Creek into the Mesmer Station where the run-off will be pumped into an existing sewer main for conveyance to City of Los Angeles' Hyperion Treatment Plant for treatment. A considerable cost savings results from not having to purchase property and building a new pump station for this stormwater diversion project. This opportunity to repurpose the Mesmer Station is one of several projects required by the Time Scheduled Order from the Regional Water Quality Control Board relating to the Dry Weather Total Maximum Daily Load requirement in the City's NPDES permit.

The consolidation of flows into a single pump station has several benefits, including (1) reducing energy and maintenance costs; (2) reducing the potential of sewer overflows by removing several older pump stations from operation; and (3) possible future connection to the Los Angeles County Sanitation Districts' system. A potential connection point to the Los Angeles County Sanitation

District system is located relatively close to this pump station. This may prove cost effective if the Sanitation District sewage treatment rates become considerably less than the rates charged by the City of Los Angeles for treatment of sewage at its Hyperion Sewage Treatment Plant.

In 2012, the City Council approved the purchase of a property at 5718-5722 Bankfield Avenue, immediately southeast of the 405 and 90 freeways, as the location of the new pump station. The property, which is larger than needed for the pump station alone, also provides valuable storage space for public works equipment including empty bin storage for the City's Solid Waste and Recycling operations.

DISCUSSION

In October 2014, the City Council approved a contract with GHD for the final design of construction plans and specifications for the diversion pipelines.

The final design and preparation of construction plans and specifications consists of the following items:

Mesmer Sewer Pump Station Diversion

One portion of diversion pipelines is from the sewer pump station to the City of Los Angeles sewer line on Centinela Avenue. The proposed diversion pipelines is along Mesmer Avenue and Teale Street. City of Los Angeles has reviewed and approved the plans. The other portion of the diversion pipelines begins at the cul-de-sac of Etheldo Avenue and then continues along Etheldo Avenue, Port Avenue, Emporia Avenue, Emporia Place, Slauson Avenue, Jefferson Boulevard, Selmaraine Drive, and then turns into the alley where the new Bankfield Sewer Pump Station will be constructed. Also, portions of the sewer pipeline are under the 405 and 90 freeways and Caltrans has reviewed and approved the plans. The Contractor will be responsible to obtain the construction permits from City of Los Angeles and Caltrans.

Portions of the new sewer pipeline will be deep and require micro tunneling technology for construction. Several deep launching and receiving pits will have to be constructed on Slauson Avenue to the east of Jefferson Boulevard and on Selmaraine Avenue, east of Jefferson Boulevard, in order to install the micro tunneling machines to conduct the tunneling and sewer pipelines installations.

Overland Sewer Pump Station Diversion

The diversion pipelines will be constructed from the sewer pump station northerly on Overland Avenue to Jefferson Boulevard. The proposed diversion pipeline then continues westerly on Jefferson Boulevard, in the eastbound travel lanes, and ties to an existing sewer pipeline at intersection with Cota Street.

Anticipated Project Schedule

- Project Bid Period July - August 2018
- Construction Award September 2018

- Start of Construction January 2019
- Construction Completion December 2019

During the bidding period staff will release a request for proposal for construction management and construction inspection services for the construction for the diversion sewer pipelines to new Bankfield Sewer Pump Station.

FISCAL ANALYSIS

<u>Proposed Project Budget</u>	<u>Funding Source Amount</u>
PZ-946 Sewer Enterprise Funds (Fund 204)	\$6,552,000

<u>Estimated Project Expenses</u>	<u>Amount</u>
Construction (Engineer's Estimate)	\$8,200,000
<u>Construction Management and Inspection</u>	<u>\$ 500,000</u>
Total Estimated Project Expense	\$8,700,000

Staff will either propose a budget amendment at the time of construction contract award to appropriate the additional funds required for the project.

Repurposing Mesmer Station to a low flow diversion station to capture dry weather run-off is estimated to save the City about \$6 million. (\$2 million for purchase of property and \$4 million to construct a new pump station).

ATTACHMENTS

1. Plans and Specifications for the project are located at the following links:

<https://www.culvercity.org/Home/ShowDocument?id=14294>

<https://www.culvercity.org/Home/ShowDocument?id=14296>

MOTION

That the City Council:

1. Approve the final plans and specifications for the for the Diversion of Sewer Pipelines to new Bankfield Sewer Pump Station located at 5722 Bankfield Avenue, PZ-946; and
2. Authorize the publication of a notice of inviting bids for construction for the Diversion of Sewer Pipelines to new Bankfield Sewer Pump Station located at 5722 Bankfield Avenue, PZ-946.