



STAFF REPORT

Board of Aldermen

AN ORDINANCE APPROVING THE AMENDMENT WITH CDBG FOR THE COMPTON DRIVE WASTEWATER TREATMENT PLANT FLOOD PROOFING FOR A SCOPE AND ENVIRONMENT REVIEW AMENDMENT FOR THE PURCHASE AND INSTALLATION OF THREE GENERATORS AND AUTHORIZING THE MAYOR TO EXECUTE THE DOCUMENTS RELATED THERETO.

FIRST READING: AUGUST 27, 2024

FINAL READING: AUGUST 27, 2024

Initiated By: Utilities

Approved By: *Cathy Stepp*

Financial Impact: Other (See additional explanation under Detailed Analysis)

Community Plan 2030: EI-1: Utilities

FACTS:

The Utilities Department has requested a scope amendment to include three backup generators to the Compton Drive Wastewater Treatment Plant flood proofing project for grant number 2019-LR-06 and grant number 18-DP-MIT01. CDBG requested that we conduct a very minor environmental review (ER) amendment that includes the installation of the generators.

This addition to the project will ensure the resilience of the WWTP to power disruptions or outages that may occur during storm events or natural disasters which would otherwise cause the WWTP to be out of service until power is restored. The ground disturbance activities associated with this proposed activity consist of installing three concrete pads to mount the generators and installation of underground conduits to the pad sites from the automatic transfer switches (ATS). The existing ground at the proposed generator sites has been recently disturbed due to the flood wall project. The excavation depth for the conduits and generator pad is not expected to exceed four feet in depth.

The city has received a cost estimate from HDR Engineering, Inc. in the amount of \$1,328,407.00 for the purchase of three permanently installed backup generators. The current project, including the construction of a floodwall around the plant, has favorably come in under the original estimated budget and therefore we do not anticipate an increase in the total grant award to include the purchase and installation of the backup generators.

A double read is being requested on this item

DETAILED ANALYSIS:

The Compton Drive facility is a critical infrastructure necessary to support the community and reduce potential damage and loss of life. The Compton Drive Facility serves 5,280 customers, 60% of the wastewater system. The purchase and installation of three generators will provide redundant

protection to the critical wastewater facilities as well as pre-disaster mitigation. The Compton Drive Facility does provide services to the police station, fire station, hospital facilities, and three school campuses. The proposed backup generators will support the City of Branson and surrounding unincorporated area by serving as a secondary power source to the critical wastewater facility, providing pre-disaster mitigation, and ensuring that the businesses and households which rely on this infrastructure for service will be protected from closure as a result of power failure of the WWTP after a natural disaster.

Power outages impacting the wastewater treatment plant can include damage to assets with costly repairs, disruption of services and hazardous situations for personnel and public health. The Compton Drive Wastewater Treatment Plant fully resides in the 100-year floodplain and experiences moderate and severe flooding events which often result in critical power outages. Without a backup solution these outages can disrupt service leading to sewer backups and discharge of raw sewage. Backup generators to run the critical components would be highly effective and a significant benefit over the current situation. The three backup generators would increase resiliency for the Compton Drive Wastewater treatment facility, not only during a flood event but also during unforeseen power outages. The generators will be permanent fixtures integrated into the broader systems to ensure continuity of services.

BACKUP DOCUMENTATION:

Staff Report Exhibit 1 - Amendment Environmental Review CDBG CD Flood Wall

Staff Report Exhibit 2 - Map FEMA Floodplain CD Flood Wall

Staff Report Exhibit 3 - Cost Estimate CD Flood Wall Three Generator Detail 2023-10-27