



City of Pflugerville

Legislation Details (With Text)

File #: 2020-8264 **Version:** 1 **Name:**
Type: Agenda Item **Status:** Approved
File created: 2/26/2020 **In control:** Engineering Dept
On agenda: 3/10/2020 **Final action:** 3/10/2020
Title: Approving a Work Authorization Number 2020-5 as a supplement to the professional services agreement for the Water Treatment Plant Engineering Services with DCS Engineering, LLC. in the amount of \$253,305.80 for professional services associated with the High Service Pumping Station Expansion Project.

Sponsors:

Indexes:

Code sections:

Attachments: 1. Work Auth 2020-5, 2. High Service Pump Exhibit Map, 3. Draft Presentation HSPS

Date	Ver.	Action By	Action	Result
3/10/2020	1	City Council	Approved	Pass

Approving a Work Authorization Number 2020-5 as a supplement to the professional services agreement for the Water Treatment Plant Engineering Services with DCS Engineering, LLC. in the amount of \$253,305.80 for professional services associated with the High Service Pumping Station Expansion Project.

This expansion is critical as it will provide necessary added capacity to meet population growth and TCEQ capacity requirements through 2024.

This project includes the design of a new floating slab with drilled piers, a 600 HP Vertical Turbine Pump, 600 HP soft starter, electrical conduit, SCADA, discharge and suction piping, pump control valve with control panel, and roof hatches on the existing pump station building. The project will increase the capacity of the City's High Service Pumping Station to a capacity of 25.71 mgd (i.e. three pumps in operation) via the addition of one new pump. The proposed roof hatches will be located over the existing pumps to allow crane access from outside of the building to remove the pumps. Pump controls, ancillary SCADA programming related to the plant's treatment processes and/or Manville WSC interconnect, and surge relief settings will be adjusted as part of this project to accommodate the addition of the 4th pump and its associated capacity.

The High Service Pump Station pumps water from the City's Surface Water Treatment Plant to the City's distribution system. The existing pump station is programmed to maintain the water level in the North Standpipe in a very narrow band of about 10 feet of water which yields about 40,000 gallons of storage. At the moment, the small active volume available in the standpipe results in approximately 4,000 pump starts and stops per year. The City is currently entering design under a separate project for a new elevated storage tank nearby the existing North Standpipe and/or on the SWTP site in order to increase the active elevated volume by 4.5 million gallons and improve pressure control in the area. At the conclusion of both of these projects, the High Service Pump Station will be programmed to maintain the level in the new North elevated storage tank.

Prior City Council Action

None.

Deadline for City Council Action

Action is requested on March 10, 2020.

Funding Expected: Revenue Expenditure N/A

Budgeted Item: Yes No N/A

*This capital project is funded through the utility fund balance.

Amount: \$253,305.80

1295 Form Required? Yes No

Legal Review Required: N/A Required Date Completed: 03/05/2020

Supporting documents attached:

Professional Services Agreement

Project Location Map

Recommended Action

Approve a Work Authorization Number 2020-5 as a supplement to the professional services agreement for the Water Treatment Plant Engineering Services with DCS Engineering, LLC. in the amount of \$253,305.80 for professional services associated with the High Service Pumping Station Expansion Project