

CIP EXPENSE DETAIL

DATE OF COUNCIL CONSIDERATION:
CONTACT DEPARTMENT(S):

Austin Water Utility

SUBJECT. Authorize execution of a construction contract with MATOUS CONSTRUCTION, LTD., for the Davis Water Treatment Plant Chlorine System Improvements, in the amount of \$721,500 plus a \$72,150 contingency, for a total contract amount not to exceed \$793,650.

CURRENT YEAR IMPACT:

Department:	Austin Water Utility
Project Name:	Davis Chlorine System Improvements
Fund/Department/Unit:	3960 2207 6930
Funding Source:	Commercial Paper
 Current Appropriation:	 887,387.00
Unencumbered Balance:	800,233.86
Amount of This Action:	(793,650.00)
Remaining Balance:	<u>6,583.86</u>
 Total Amount of this Action	 <u><u>793,650.00</u></u>

ANALYSIS / ADDITIONAL INFORMATION: The Davis Water Treatment Plant (WTP) has a rated treatment capacity of 120 million gallons per day. The plant uses lime softening, rapid mix basins, flocculation basins, sedimentation basins, recarbonation basins, gravity filters, clear well storage, and raw water and finished water pumping stations. Powdered activated carbon is added for taste and odor control. Settled water pH is adjusted with carbon dioxide. The plant was constructed in 1954 and expanded in 1961 and 1973, with additional improvements in 1986, 1993, 1997, 2000, 2002, 2003, and 2006.

Much of the existing equipment at Davis WTP has exceeded its useful life and the integrity of certain components has been compromised by corrosion and age. The 1 ton chlorine gas wet scrubber was installed as part of the 1994 Safe Drinking Water Act and has reached the end of its useful life. The new 1 ton chlorine gas dry scrubber will extend the useful life of the chlorine gas scrubbing system and it will be easier to maintain.

The Work shall include furnishing all tools, labor, materials, equipment, and miscellaneous items necessary for the complete construction of the following at the Davis Water Treatment Plant: removal and replacement of 18 automatic shutoff valve actuators and their associated supports and local control units (the actuators are located on the manifold connecting the chlorine containers in the Chlorine/Ammonia Building); installation of new HVAC equipment and modifications to existing ductwork and louvers; removal and replacement of the existing caustic soda emergency gas scrubber with a new dry media scrubber; modifications to the existing electrical and control systems and installation of new uninterrupted power supplies (UPS) to service the new actuators; and modifications to existing plant instrumentation and controls and associated programming.