



**AGENDA MEMORANDUM**  
for the City Council Meeting of September 12, 2017

**DATE:** July 14, 2017

**TO:** Margie C. Rose, City Manager

**THRU:** Mark Van Vleck, Assistant City Manager  
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**UPDATE TO CITY COUNCIL**

Control Network Architecture Upgrade for  
O.N. Stevens Water Treatment Plant (ONSWTP)  
High Service No. 3

**STAFF PRESENTER(S):**

<b><u>Name</u></b>	<b><u>Title/Position</u></b>	<b><u>Department</u></b>
1. Clarence Wittwer	Director of Water	Water Utilities
2. Dan Grimsbo	Executive Director Water Utilities	Water Utilities
3. Rafael Martinez	Water Plant Manager	Water Utilities

**OUTSIDE PRESENTER(S):**

<b><u>Name</u></b>	<b><u>Title/Position</u></b>	<b><u>Organization</u></b>
1.		

**BACKGROUND:**

The existing High Service Pump Bldg. No. 1 (HSPB#1) at the ONSWTP was placed into service over 60 years ago and is experiencing severe deterioration impacting the reliability and capacity for the Texas Commission on Environmental Quality approved Alternate Capacity Requirement (ACR) plan and future demands. In October 2013, the City awarded a professional services contract for designing a new High Service Pump Bldg. No. 3 to replace the HSPB#1. The design work was

accomplished in late 2015. Currently, the construction of the ONSWTP HSPB#3 project is on-going, and scheduled for completion in September 2019.

During the design phase, considering project budget constraint and cost saving, the City staff and the Design Engineer decided to fully make use of the existing control system and equipment. Although the current design met the requirements of codes and specifications, and provided operational and reliable control system for HSPB#3, it may result in increased complexity of operations, maintenance, and reduced reliability.

With the City's competitive sealed bidding process for construction, the final construction contract price is \$21,650,000 which is much lower than the Engineer's Opinion of Probable Construction Cost of \$23,500,000.

Thus, with the significant construction cost savings, the City staff is proposing a professional services contract amendment and construction change order to upgrade the current control network architecture design. The proposed upgrades will make the control system more reliable, more maintainable, and less complex.

The purpose of this briefing memo is to obtain authority to administratively proceed with a professional services contract amendment (NOT to exceed \$50,000), and a construction change order (NOT to exceed \$200,000) for upgrading the current control network architecture.

**LIST OF SUPPORTING DOCUMENTS:**

Presentation