ADDENDUM NUMBER SEVEN

CITY YARDS CARPENTER SHOP & WATER QUALITY STORAGE BUILDING

FOR THE CITY OF CHATTANOOGA, TENNESEE

Contract Number C-16-005-201

The following questions were have been received and answered below.

Question 1. **Please confirm the gauge and color of the siding material – assuming 26 ga.**

Answer 1. Yes, the siding is 26 ga. Color will be selected by the City of Chattanooga.

Question 2. **Please confirm the girder spec – assuming 6" 14ga.**

Answer 2. No new girders are required.

Question 3. **Please confirm the beam spec that is required to repair the back canopy.**

Answer 3. Match existing.

Question 4. **What is the insulation requirement and is it required for all walls?**

Answer 4. Match existing.

Question 5. **There is not a DCDA backflow preventer on the system or a vault outside that would house one either. If the point of connection for the fire service main is further than 50 LF, TNAW will require one to be in a vault. Less than 50 Feet they can be installed inside at the riser. Is the check valve installed? Water was heard fluctuating back and forth into the system.**

Answer 5. The design intent assumes work from the stub-up in the shop from the existing system. The water supply is from the site main city connection which may include a vault, PIV and double detector check valve.

Question 6. **The Fire Sprinkler intent on FP1.1 shows design criteria to meet Ordinary Group 1, which is head spacing at a maximum of 130Sq'. The system will apparently not work as intended with the existing pipe sizes unless a model of a system is built, and hydraulic calculations are performed.**

Answer 6. As referred to in the general notes, it is the sprinkler contractor's responsibility to provide a complete system and provide shop drawing submittals for city and engineering review and approvals.

Question 7. **This main supply piping feeding the branch lines carrying the fittings and sprinklers will all have to be pitched to drain to a low point. All mains have to be pitched ½" every 10 feet per NFPA 13. This will require removing and lengthening every riser nipple a reconnecting branch line. Can you advise here?**

Answer 7. Contractor to follow all NFPA 13 for system design and installation.

Question 8. **The exterior canopies are not shown adding protection per FP1.1. Per NFPA 13 2010, the exterior canopies may require protection if combustibles are stored below. Would you want an add alternate to extend the dry system out to protect the exterior canopies?**

Answer 8. Sprinkler heads in exterior canopies may be omitted if the canopies are noncombustible materials. Refer to structural drawings for construction materials.

Question 9. **Need to verify that the Existing Wet Alarm Valve and FDC Piping is to remain per details on FP1.1. It was suggested to remove the alarm valve above the OS&Y and replacing with 4" pipe, and then place the new dry valve above the flanged tee for FDC. This would remain in NFPA 13 requirements for position of FDC for Dry systems.**

Answer 9. Correct.

Question 10. **The existing riser currently does not have a Hydraulic Design Data Plate and appears to be a "Pipe Schedule" Design. Will Hydraulic Calculations need to be performed or should the piping be installed to match existing?**

Answer 10. Sprinkler contractor to follow NFPA design requirements unless otherwise exempt by local authority. The design intent was based on existing pressure gauge reading of 86 PSI at the riser and flow assumption of typical GPM for the area based on owner experience. No actual flow tests were performed.

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July 3, 2019

/s/Justin C. Holland, Administrator
City Of Chattanooga
Department of Public Works