

November 21, 2018

Bridges of Hope
1087 West Second Street
Xenia, OH 45385

Attn: Jill Conkel

Re: Building Fire Suppression Scope and Budget
Tri-Tech Project No. 17399

Dear Ms. Conkel,

We have reviewed the building drawings to determine what work is required to provide fire suppression to the building (sprinklers).

All work must conform to The Ohio Building Code, The Ohio Fire Code, and NFPA 13. System shall include fire riser, drain connections, test connections, and detector check valve. The system shall also include a fire department connection located within 75 feet of the nearest existing fire hydrant. Fire suppression contractor shall provide all calculations and drawings required by codes for permitting.

The building is served by a 4" water line to a 4" reduced pressure backflow preventer serving the building domestic water needs. This line shall be tapped and used to provide fire suppression in the building and domestic water service shall be reestablished.

The bulk of the building suppression system shall be designed as Light Hazard and at the rate of 0.10 GPM per square foot over the most remote 900 square feet of floor area with a 100 GPM hose allowance. Quick response pendant type sprinklers shall be used in areas with drop ceilings and quick response upright sprinkler heads used in areas without drywall or drop ceiling finishes. Maximum head spacing shall be 324 square feet.

Mechanical areas of the building shall be designed as Ordinary Hazard (Group1) and at the rate of 0.20 GPM per square foot over the most remote 1500 square feet of floor area with a hose allowance of 250 GPM. Quick response recessed head sprinklers shall be used in areas with drop ceilings and up-right heads in areas without ceilings.

The system shall include the following: one electric flow switch connected to the fire alarm system, two electric tamper switches connected to fire alarm system, and two electric bells connected to fire alarm system.

Ancillary work required for cutting and patching, painting, removal and replacement of ceiling pads, site work, fire hose cabinets and hoses, and permit fees.

The estimated cost to fully suppress the building is \$160,000.

Respectfully,



Roger D. Butler,
P.E.

Enclosure

cc: Robert A. Thomson, P.E., Tri-Tech Associates Inc.
File No.