



City Hall  
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**Engineering**

**Alpena Public Safety Building VAV Box Upgrade – Phase 2  
Addendum #1**

**August 21, 2017**

This letter shall serve as Addendum #1 for the **Alpena Public Safety Building Box Upgrade – Phase 2**. Please record the receipt of this addendum on page 13 and 15 of the bid documents.

This addendum shall address the following:

1. Ductwork:
  - a. Where new hard duct is installed it shall be G-90 galvanized ductwork. Ductwork shall be sealed per ASHRAE 90.1-2007 using Hardcast duct sealant, or using UL 181A/B duct tape only.
  - b. New supply air ductwork on the discharge of the new VAV boxes shall not be lined for noise.
2. Insulation:
  - a. When replacing the VAV boxes the existing supply air ductwork insulation should be maintained and if damaged and removed it should be replaced.
  - b. The Contractor shall match the existing insulation conditions when installing new ductwork.
  - c. The existing VAV box connectors shall be insulated flex duct, minimum R-3.5, UL 181 Class 1, with double-ply black polyester core, with ASTM C553 Type 1 glass fibers bonded with thermosetting resin wrapped in black polyethylene vapor barrier film, supported by helically wound, spring-steel wire, maximum 12" w.c. positive pressure and 5000 FPM.
3. Where new supply air hard duct is installed it shall be insulated with minimum R-3.5 foil-backed, fiberglass insulation.
4. Classroom 229:
  - a. In addition to the two new supply air diffusers added to Classroom 229, Add Alternate #M-2 shall include the replacement of the (3) existing supply air diffusers with (3) new SD-2, Titus Omni, 24"x24", 10" round neck.
  - b. The total count of new SD-2 for Classroom 229 is (5).
  - c. Ductwork modifications shall be kept to a minimum.

d. All new round duct branches shall include a round, lockable volume damper.

e. New insulated supply air hard duct, and insulated flex duct shall be as described in Item #1 above.

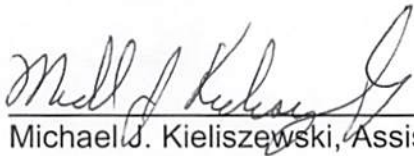
f. RG-1, 48"x24", as shown is connected using (2) 12" round flex ducts with volume dampers.

g. The new return air ductwork does not require insulation.

5. Bunk Room 203: All new ductwork required for Bunk Room 203 shall follow ductwork and insulation specifications described above.

6. Test and Balance shall not be included as part of Phase 2. Complete test and balance of the new and existing air and water will take place in the future

Any questions regarding this addendum should be directed to Mike Kieliszewski, Assistant Building Official, at (989) 354-1762 or by e-mail at [mikek@alpena.mi.us](mailto:mikek@alpena.mi.us).



Michael J. Kieliszewski, Assistant Building Official