



AMSCO
ENGINEERING INC.

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April 5, 2024

Cashman Stahler Group
1910 S. Highland Ave., Ste. 310
Lombard, Illinois 60148

RE: North Boone Community
School District 200
Mechanical Upgrades 2022

Attention: Greg Stahler

Greg,

The following observations were noted during a site visit on Monday 2/19/24.

General:

The outside air dampers on most unit vents were not initially adjusted correctly. In general, they were not closing completely when required. This allowed cold outside air to enter the units which in turn can cause the internal freeze protection to disable the units.

A tight seal between the back of the unit vent and the wall is required for the units to function correctly. They are shipped with gasketing material on the back of the unit to provide an airtight seal. Due to poor existing wall construction, these gaskets are not adequate in all cases to provide an adequate seal between the back of the unit and the wall.

Capron:

Cold outside air was leaking into a few units due to misadjusted outside air dampers. For these units, it was difficult to tell if other issues were also present for these units. One unit was definitely not properly sealed against the outside wall which was allowing cold outside air to enter the unit. The remainder of the units seemed to be installed correctly and were adequately sealed to the outside wall.

Poplar Grove:

It appeared that all units were sealed properly to the outside walls and the outside air dampers were adjusted correctly.

North Boone Middle School:

Similar to Poplar Grove, the units at this school were sealed properly to the outside walls and the outside air dampers were adjusted correctly.

Manchester:

Three of the units in the upstairs section of the building were not sealed properly to the outside wall. It appeared that this was due to the existing wall construction.

The following corrective measures are recommended to allow for reliable operation of the units.

General:

A full start-up should be performed for all unit vents. This will include adjusting all dampers such that they will close properly when required,

Capron:

The majority of the issues at this building would be corrected with proper start-up. At a minimum, the units that are currently leaking should be removed and reinstalled to allow for repairs to the outside walls to ensure that the gaskets seal properly. To provide an additional layer of protection, all units in the original section of the building could be removed and reinstalled to allow for additional wall repairs to avoid outside air leakage into these units.

Poplar Grove:

Full start-up should be performed to ensure proper operation of the outside air dampers. As with Capron, all units could be removed and reinstalled to allow for additional wall repairs to avoid outside air leakage into the units.

North Boone Middle School:

Full start-up should be performed to ensure proper operation of the outside air dampers. The wall construction at this building is in good condition and additional repairs are not anticipated.

Manchester:

As with the other schools, full start-up should be performed to ensure proper operation of the outside air dampers. At a minimum, the three units that are currently leaking should be removed and reinstalled to allow for repairs to the outside walls to ensure that the gaskets seal properly. The wall construction in the original building is very poor. To provide an additional layer of protection, all units in the original section of the building could be removed and reinstalled to allow for additional wall repairs to avoid outside air leakage into the units.

Please call if you need any additional information.

Sincerely,

Daniel K. McCurdy