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Subject: **School Inspection**
Edison Career and Technology High School
655 Colfax St, Rochester, NY 14606

On Tuesday, December 22, 2020, Ed Olmsted and Jennifer Long as well as Margaret Sergent, representing the Rochester NY Teachers Association inspected representative classrooms at Edison Career and Technology High School located at 655 Colfax St, Rochester. The survey team included representatives of the Rochester City School District (RCSD) including Stacie Darby, Environmental Health and Safety, Matthew Seeger, Schools Facilities Management, and Tom Keysa of Schools Facilities Management. The survey was done as part of the exposure control program for pandemic SARS-CoV-2. The Rochester City Schools District instituted many exposure control measures for the coming year including mandatory wearing of masks, distancing of occupants (reduced occupancy), enhanced cleaning, operating the ventilation systems with a maximum fraction of outside air, and installation of ASHRAE MERV 13 filters, where the HVAC units can accommodate them, and the provision of air purifiers to all occupied spaces. Each school will temperature screen entrants and have a nurse's office. Students with symptoms or suspected of having COVID-19 will be isolated in an isolation room.

The building will be utilized this January for in-school classes starting with special education students and phasing in elementary and middle school students. This inspection was requested prior to the students' return. The survey was done on December 22, 2020, and included the following:

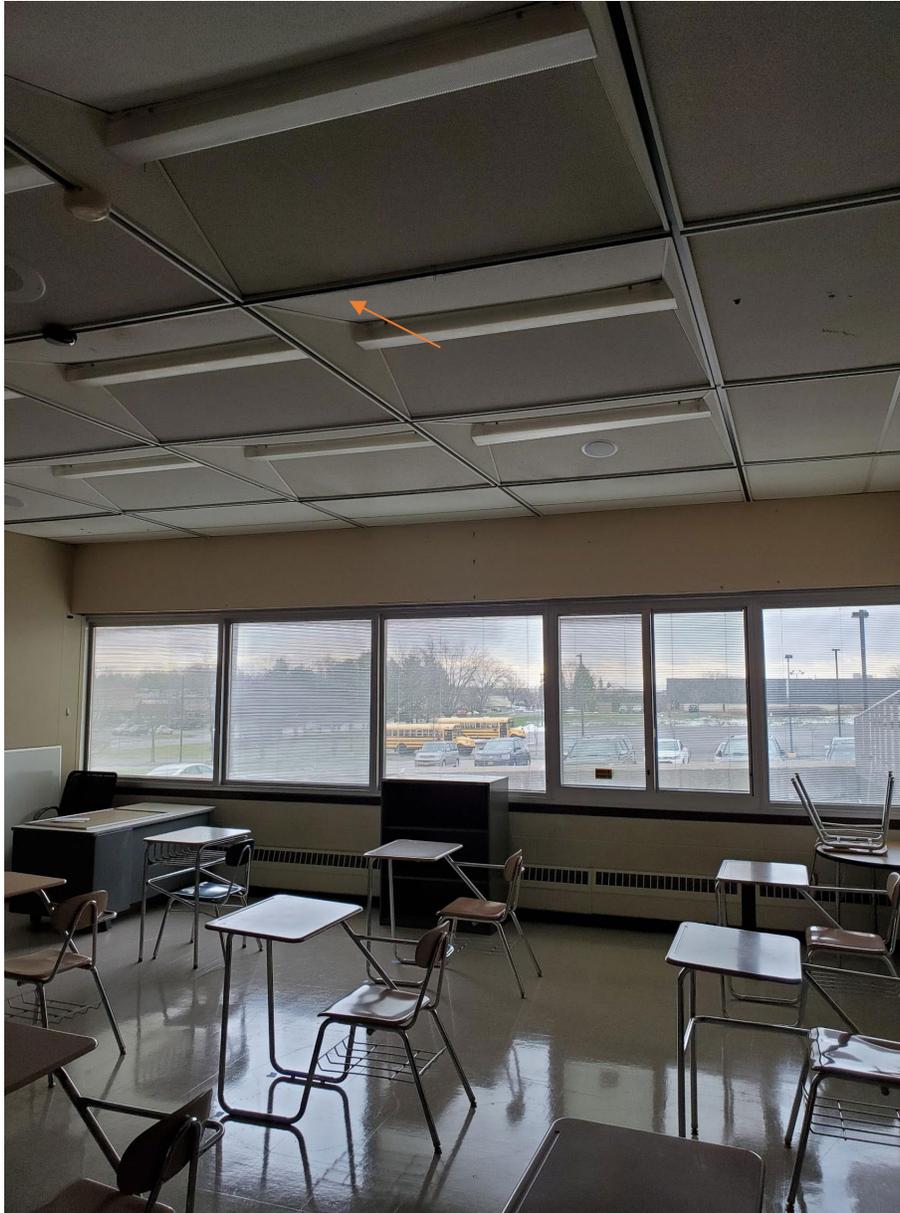
1. A visual inspection of a number of representative classrooms, nurse's office, and isolation room as well as the mechanical room(s);
2. Taking airflow measurement at supply outlets, return/exhaust grilles, and open windows using a TSI 9515 VelociCalc Air Velocity Meter (anemometer); and,
3. A visual inspection of the building ventilation system(s).

The findings include:

1. Edison Career & Technology High School building was constructed in 1978 and has a central heating and air conditioning ventilation system that serves all classrooms. While most classrooms in the building have operable windows for natural ventilation, there are a number of classrooms visited that also do not have operable windows and rely solely on mechanical ventilation.
2. The central air handler units are designed to provide a mixture of outside air and return air modulated by dampers. Each supply fan has an associated return fan. Mixed air is filtered through MERV 13 filters and heated or cooled in fan coils in the unit. Filters with MERV-13 or higher ratings are recommended for HVAC systems due to its ability to filter smaller particles, including viruses. From these air handler units, that tempered and filtered air is distributed via a system of ductwork that terminates at supply outlets located on the ceiling. In addition, the space above the drop ceiling serves as a return air plenum. The air handler was inspected and found to have MERV13 filters and is providing outside air.
3. All the above-mentioned components of the school's central mechanical ventilation systems were examined and found to be working.
4. Not all rooms could be inspected but rooms designated for use in the reopening were included in the inspection. These rooms included the 2C2 Health Clinic, Rooms 2B2, 2C25, 2C26, 2C27, 2C38, 2C40, 2C47, 2B13, 2E6, 2B10, 2B11, 2B12, 1D3, 1C6, 1C24, 1C25, 1C23, 1C37, and 1C21. The supply outlets were screened with a thermal anemometer to determine whether supply air was discharging from the outlet. The style of outlets varies between square ceiling mounted diffusers and slot diffusers around ceiling tiles. All rooms visited were found to have a good flow of ventilation air.

CONCLUSIONS

The school has a central mechanical ventilation system with MERV 13 filters and that provides a mixture of outside air taken from the roof and return air. All air is filtered and heated. The return and supply fans were all working. The exhaust fans were also working. Temperature readings indicate the heating system is working in each classroom. The school is ready for occupancy. The ventilation system filters all supply air through MERV 13 filters and mixes outside air. The ventilation system in combination with the wearing of masks, screening students, social distancing, and sanitizing of surfaces as well as other controls provide a sufficient level of infection prevention.



Slot diffuser as supply outlet



Square diffusers as supply outlet