Bristol Warren Regional School District

151 State Street, Bristol, RI 02809 **Telephone: (401) 253-4000**
Fax: (401) 253-1740

Thomas Wood
Director of Facilities

MEMORANDUM

Date: December 23, 2020

To: Dr. Jonathan Brice

From: Thomas Wood

Re: Ventilation Update KMS and MHHS

Automatic Temperature Controls (ATC) conducted field tests at all buildings to check the operational condition of all mechanical units associated with providing airflow to spaces within each building

ATC identified that all classrooms at Kickemuit Middle School and Mt. Hope High School are able to have windows closed with the air purifiers installed.

In addition to the classroom, ACT has identified that all Stage Two and Stage Three spaces are now able to be used with the air purifiers installed.

Stage One: Installation of air purifiers in all classrooms
Stage Two: Installation of air purifiers in open offices and teacher support spaces
Stage Three: Large community areas (gyms, libraries, band rooms, cafeterias, etc.)
Stage Four: Small meetings rooms and individual offices

All Stage Four rooms can be used by single individuals. When additional air purifiers have been installed. Occupancy's at these rooms will be expanded.

Attached are the charts with the results of the field test. A few things to point out on how to use these charts:

- *ACH-stands for Air Changes per Hour.*
- *ODA- stand for Out Door Air.*
- *CFM-stands for Cubic Feet per Minute*
- *When you read the chart the last column is the one that we are most concerned with it shows the Total ACH for each room tested. The Reopening RI guidelines are calling for a minimum of 4 ACH in order to use the room at normal occupancy.*
- *The normal and the 100% columns refer to the outside air dampers located within each unit. We normally run the units between 10% and 30% outside air to improve energy efficiency. During this COVID period we are running all systems at 100% outside air. Not all testing was done in the Normal position because we are not anticipating a normal setting at all this school year.*
- *Filtered Air CFM are the Air Purifiers added to each room. The wall hung "Rabbit" Units provide 218 CFM per unit. The floor mounted Units provide 1,308 CFM per unit.*

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- *Please note that the chart shows Room Size. This matters as the Air changes are based on room volume not floor area. The rooms with sloped ceiling are figured at the average height.*
- *Please note that the chart is color coded. This was done to indicate the different phases and priorities. Some of the colored boxes have values added for when Air Purifiers were added. Other boxes have no value. This simple indicates the spaces were checked and did not need any additional Air Purification.*

The BWRSD Custodial and Maintenance staff continue to provide exceptional cleaning on a daily basis and are working to have all spaces open for when in person instruction resumes on 1/7.

Research continues to support that face coverings and social distancing are still some of the best defense against the transmission of COVID-19 and other respiratory viruses.

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