DISTRICT OF COLUMBIA
PUBLIC SCHOOLS

#ReopenStrong: HVAC Enhancement Report

School Name
SWW @ Francis-Stevens Education Campus
2425 N St NW
Washington, DC 20037

Date of Form Completed
11-04-2020

Contractor
GCS-Sigal

MEP Engineer
Setty & Associates

Background & Introduction
DC Public Schools (DCPS) is committed to reopening safely. Part of our reopening plan is ensuring school facilities are properly suited to welcome back students and staff based on a set of operational metrics that need to be addressed to ensure readiness. Stakeholders can view on overview of these metrics at: dcpsreopenstrong.com/health/buildings/.

HVAC and all other operational metrics will be reviewed by a site-based walkthrough team using a detailed Building Readiness Checklist prior to school opening. Each school's principal will receive written verification of planned HVAC enhancements in accordance with criteria outlined in the Checklist. In addition, DCPS is completing site-specific operational plans for each school in accordance with guidelines from DC Health, the Centers for Disease Control (CDC), and the Office of the State Superintendent of Education (OSSE). Each school's operational plan will be posted online.

In partnership with the Department of General Services (DGS), all DCPS facilities are undergoing a comprehensive HVAC assessment which will inform subsequent system modifications and enhancements. The work is being carried out by numerous HVAC contractors under the guidance and direction of a licensed professional engineer (PE) and in accordance with recommendations provided by the American Society of Heating and Air-Conditioning Engineers (ASHRAE). The lead engineer that developed the school-specific scope of work for the HVAC enhancements for DCPS is a nationally recognized expert and a member of Epidemic Task Force School Team at ASHRAE.

Healthy air quality is critical for the health of those who occupy a school building, and we are committed to making improvements across all DCPS facilities. DCPS will improve the air change rates and filtration provided by HVAC systems to reduce any airborne concentrations of COVID 19 and related transmission risks in our learning environments.

The actions we will take vary by system type to ensure their effectiveness. For all schools, we plan to increase the air change rates and filtration. The work will vary by system but will include modifications like increasing fresh air distribution through an existing Dedicated Outside Air System (DOAS) and installation of MERV-13/MERV-14 filters or placement High-Efficiency Particulate Air (HEPA) filters in high traffic areas and instructional spaces. In addition, no matter the system, all classrooms across the DCPS portfolio will receive a portable HEPA filter.

The primary focus of this effort is to analyze specific building systems to identify what systems can be addressed to improve indoor air quality in alignment with national recommendations. We are committed to performing enhancements and instituting best practices for indoor air quality improvement.

The HVAC enhancements are an important component of our plan to create safe and healthy learning environments for our students and staff, but it is not the only thing in place. In addition to the HVAC work, DCPS will be instituting PPE, social distancing, school routine, and cleaning protocols to help mitigate the risk of COVID-19 transmission.

HVAC System and Equipment Specifics

1. System/ Equipment:

- Classrooms are heated by steam radiators and cooled via window air conditioners. Ventilation is achieved through natural ventilation (operable windows and convection) supplemented by exhaust fans. The Auditorium is heated by steam radiators and cooled via window units; ventilation is achieved through natural ventilation (convection) supplemented by exhaust fans. The Cafeteria receives conditioned air and ventilation from packaged rooftop unit RTU-2. The Gymnasium is heated by hot water radiators and cooled via window units; ventilation is achieved through natural ventilation (convection) supplemented by exhaust fans.

Work Completed

1. Initial Verification: (10-12-2020)

- System start-up (10-15-2020)
- Change filters in kind (10-16-2020)
- Disinfect and clean HVAC equipment (10-26-2020)

2. Enhancements:

- Direct Outside Air System (DOAS) with MERV-13/MERV-14 filters installed (11-10-2020 for Cafeteria)

  OR

- High-Efficiency Particulate Air (HEPA) filters placed in the building (10-21-2020)
- Install air quality sensors (one (1) installed 11-02-2020 in library, nine (9) additional sensors forthcoming with target install the week of 11-09-20)
- Demand Control Ventilation System Disabled (N/A, no existing system)

3. Defects or Issues Repaired

- No major repairs needed. Open WO still actively being addressed. Does not impact ventilation

Plumbing System and Equipment

1. Work Completed

- Plumbing System Start-up & Tested (10-24-2020)
- Plumbing System Flushing & Sanitization (10-24-2020)

2. Defects or Issues Repaired

- WO 655134 (Target completion 11-06-20)

Disclaimer

While the above-referenced contractor has completed the described HVAC work in accordance with its contractual requirements, the contractor does not warrant or represent in any way that such HVAC work will prevent the spread of the COVID-19 virus or that such HVAC work will guarantee a person will not contract the COVID-19 virus.