

**EDUCATIONAL SPECIFICATIONS FOR
CLOONAN MIDDLE SCHOOL
UNIT VENTILATOR CONTROLS UPGRADE PROJECT**

NOVEMBER 11, 2022

1. RATIONALE

Cloonan Elementary School was constructed in 1967. In 2020, a unit ventilator controls project was conducted to increase operational efficiency of unit ventilators that service the building.

The Unit Ventilator Control Upgrade Project was a single phased project conducted to increase operational efficiency of the unit ventilators that service the building.

2. LONG RANGE PLAN

The district's facilities plan calls for safe environments appropriate for learning. Stamford Public Schools participates in the Connecticut Green LEAF Schools program for which there are three tenets of this program:

- Provide Effective Environmental and Sustainability Education
- Improve the Health and Wellness of Students and Staff
- Reduce Environmental Impact and Cost

To provide a facility that meets these goals, the Unit Ventilator Controls Upgrade Project was conducted in 2020.

3. THE PROJECT

The Unit Ventilator Controls Upgrade Project included the following components:

- Demolition of existing controller and installation of new JCI PCG Controller.
- Demolition of existing discharge temperature sensor and install of new averaging discharge temperature sensor.
- Demolition of existing return air temperature sensor and installation of new space temperature sensor
- Installation of a mixed air averaging sensor and current transducer on fan motors.
- Commissioning of and replacement of deficient freeze stats, outside air damper actuator, hot water valve actuator, hot water valve body,
- Demolition of existing outdoor air temperature and humidity sensor and installation of new outdoor air temperature and humidity sensor.
- Cleaning of existing unit ventilator cabinets, dampers, coils, and other accessories.
- Programming of new sequence of operations.
- Ancillary work to selectively demolish and rebuild interior finishes and exterior envelope and roofing to accommodate and complete mechanical work.
- The project did not involve land disturbance.

The work was conducted in Fall 2020.

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4. BUILDING SYSTEMS

- Security: Security equipment and components impacted by selective demolition to install mechanical components were repaired and/or replaced to a finished state as part of the Project.
- Public Address: Public Address equipment and components impacted by selective demolition to install mechanical components were repaired and/or replaced to a finished state as part of the Project.
- Technology: Technology equipment and components impacted by selective demolition to install mechanical components were repaired and/or replaced to a finished state as part of the Project.
- Phone Systems: Phone System equipment and components impacted by selective demolition to install mechanical components were repaired and/or replaced to a finished state as part of the Project.
- Clocks: Clock System equipment and components impacted by selective demolition to install mechanical components were repaired and/or replaced to a finished state as part of the Project.

5. INTERIOR BUILDING ENVIRONMENT

- Acoustics: Mechanical components installed were insulated and sound proofed as required by Building Code as part of the Project.
- Ceilings and Walls: Ceilings and walls impacted by selective demolition to install mechanical components were repaired and/or replaced to a finished state as part of the Project.
- Lighting: Lighting impacted by selective demolition to install mechanical components were repaired and/or replaced to a finished state as part of the Project.
- HVAC: Mechanical components installed met the latest Energy Code, Building Code, and Fire Code as well as requirements of Connecticut General Statutes Section 10-291.
- Plumbing: Plumbing equipment and components impacted by selective demolition to install mechanical components were repaired and/or replaced to a finished state as part of the Project.
- Windows and Doors: N/A

6. SITE DEVELOPMENT

- Site Acquisition: N/A
- Parking: N/A
- Drives: N/A
- Walkways: N/A
- Outdoor Athletic Facilities: N/A
- Landscaping: N/A
- Site Improvements: N/A

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7. CONSTRUCTION BONUS REQUESTS

Not Applicable.

8. COMMUNITY USES

Cloonan Middle School is designed to accommodate community uses after school hours and on weekends, throughout the school year and in the summer. There is no space in the school that is not dedicated to student use during school hours. Community uses of the facility include, but are not limited to, before and after-school programming.