

**EDUCATIONAL SPECIFICATIONS FOR  
WESTOVER MAGNET ELEMENTARY SCHOOL  
DEDICATED OUTDOOR AIR SYSTEM (DOAS) PROJECT**

**NOVEMBER 11, 2022**

**1. RATIONALE**

Westover Magnet Elementary School was constructed in 1998 and underwent substantial renovations in 2019 and 2020. In 2021, three Dedicated Outdoor Air Systems (DOAS) were installed in the classroom portion of the building.

The DOAS project was a single phased project conducted to provide temperature and humidity controlled fresh air to the classroom portion of the building. The intent of the project was a response to alleviate condensation encountered on chilled water piping which served unit ventilators in 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 DOAS project was conducted in 2021.

**3. THE PROJECT**

The DOAS Project included the following components:

- Installation of three DOAS units and components including ductwork and transfer grilles.
- Installation of Building Management System controls and integration into the Building Specific Distech system.
- Ancillary work to selectively demolish and rebuild interior finishes and exterior envelope and roofing to accommodate and complete mechanical work.
- Ancillary work to convert existing unit ventilators with fresh air components to unit ventilators that recirculate including sealing off supply vents.
- The project did not involve land disturbance.

The work was conducted in Summer and Fall 2021 and is currently in construction close out phase.

**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.

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- 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

**7. CONSTRUCTION BONUS REQUESTS**

Not Applicable.

**8. COMMUNITY USES**

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Westover Magnet Elementary 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.