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## **Academy Roofing Corp. completes over 5 acres of roof installation for Kingswood Regional High School**

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Academy Roofing Corp. has worked with North Branch Construction on numerous projects. The latest project was the Kingswood Regional High School, requiring attention to safety and detail at all times.

The expertise of Academy Roofing was of great significance on this project with over five acres of roof and strict requirements to meet (CHPS) Collaborative for High Performance Schools certification. Both the North Branch Const. and Academy Roofing dedication to sustainable construction was paramount to achieving certification results.

This project was developed within New England CHPS guidelines and complete co-operation was required for certification. Waste was tracked by percentage and organized for recycle and reuse products to meet certification. 90% of roof insulations, membranes and insulations were recycled or resold.

Particular attention was made to preventing mold problems during construction, sealing all openings and cracks, providing ventilation during construction, protecting ductwork, providing building flush-out, installing air barriers and site waste management.

### **Project Team**

Kingswood School site manager: Tom Boudette

Architect: CMK Architects

Project manager: John Beaver, North Branch Const.

Project superintendent: Bruce Blazon and Julianne Cardinal, North Branch Const.

Roofing contractor: Darryl Michaud, project manager, Academy Roofing

North Branch Const. selected Academy Roofing as a preferred partner for this project for the level of professionalism and quality work. The renovation of the existing roof was challenging to keep watertight while remaining open to students. Issues were solved by daily collaboration with North Branch Const. and other trades to meet schedule demands.

"Academy Roofing did an excellent job for us," said John Beaver, North Branch project manager. "Their schedule, performance, workmanship, safety performance and cooperation were outstanding throughout the project;" said Beaver. "They supported our demanding schedule without problems.

### **Installation**

The CHPS certified new roof included 80,000 s/f new construction, 121,000 s/f retrofit roofing and 15,000 s/f PVC profile rib roofing at the main entry. Two layers of 3.5" polyiso insulation, 1/2" high density coverboard, .090 adhered fire retardant EPDM and fully adhered PVC fleece back membrane were part of the 30 year warranty system. The PVC roofing was special ordered with membrane roof rolls to line up with the roof profile ribs. Due to the roof layout, seams in the membrane were required to line up with the ribs. The system was installed on a 12 pitch steep roof

requiring a man-lift. The profile rib was the finished detail, it had to be perfectly installed to achieve aesthetics with no margin for error.

### Challenges

The new roof installation presented difficult challenges for Academy Roofing to accommodate. In addition to the amount of varying roof surface installed, safety was imperative on this project.

"At all times safety was of critical importance as students and faculty were always on site during construction." said Darryl Michaud, Academy Roofing project manager. "Academy procured an independent company to perform safety inspections in addition to North Branch Const. safety personal monitoring daily activities."

Kingswood was the largest roofing project contracted by Academy Roofing to date. Keeping the building watertight while being utilized complicated the installation process. Scheduling was crucial to meet completion deadlines. Academy had up to 25 men onsite to keep various areas of construction running smoothly all times.

The roof installation required intricate flashing details to accommodate waterproofing of HVAC units and skylights. Installation took approximately one year to complete the entirely redesigned sections of the building. The project was completed last month.

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