SAUGANASH ELEMENTARY SCHOOL ADDITION

6040 N. Kilpatrick Avenue

New Addition Features

- 42,154 square feet
- Steel Frame and Masonry Construction
- 12 Classrooms
- 1 Science Lab
- Kitchen and Dining Facility

Existing Building Features

- 23,637 square feet
- 11 Classrooms
- Library
- Gymnasium
- Administrative Suite

Environmentally Sustainable Features

- Green Roof
- Durable Materials
- Natural Light and Views
- Indoor Air Quality
- Water Use Reduction Measures
- Native Planting & Permeable Pavers

Project Development Information

- Design Architect: SMNG-A
- Architect of Record: SWWB
- General Contractor: Blinderman Construction Company, Inc.
- Original Contract Value: $10,525,134.00

Economic Sustainability Program

- Bid incentives for the employment of Women and Minorities
- Bid incentives for the employment of Apprentices
- City Residency Labor Requirement
- Community Hiring Requirement
- Local Business Requirement
- M/WBE Business Participation: 28% Minimum

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Environmentally Friendly or "Green" Elements

The new Sauganash Elementary School Addition was designed to achieve a Silver rating under the U.S. Green Building Council's LEED (Leadership in Energy and Environmental Design) for Schools Rating System.

Green buildings are designed, constructed and maintained in an environmentally sustainable way. Some of the green elements that are part of this elementary school are outlined below.

Sustainable Sites

These features take into account the location and placement of the building, and its impact on and relationship with the environment around it.

- The building was constructed on a previously developed site in a dense residential neighborhood, and within ½ mile of 10 basic services (neighborhood amenities).
- The school is well served by public transportation, as it is located within ¼ mile of two CTA bus lines.
- Alternative transportation is encouraged through the addition of bike racks, preferred parking for low-emitting and fuel efficient vehicles and carpool vehicles and a designated carpool drop-off.
- Both the roof and selected site materials have a high degree of reflectivity, which contribute less to the urban heat island effect on and around the building. Lower summer temperatures around the building translate into less energy required to cool it.
- Approximately 36% of the total roof surface will be vegetated (green).
- Native landscape, vegetated bioswales and pervious pavements help manage stormwater on site, as does the green roof.

Water Efficiency

Efforts were made to conserve water in and around the building.

- Landscape plantings include adaptive and native species, which require less water. Irrigation is provided only during plant establishment.
- Low flow plumbing fixtures and sensored sinks reduce the addition's water usage by close to 35%.

Energy & Atmosphere

Green buildings reduce the amount of energy used by the building, and may make use of renewable energy.

- Energy-using systems are being designed to perform at least 20% better than facilities of similar size and use.
- The efficient lighting systems utilize occupancy sensors and available daylight.
- Enhanced commissioning of the building's energy-using systems will ensure they are installed and perform as designed, and that the operations and maintenance staff are well trained.

Materials & Resources

Materials selection is mindful of recycled content, and regional manufacturing, to reduce use of energy to bring the materials to the site and to reduce raw material consumption.

- At least 75% of waste from construction will be recycled.
- The addition will contain over 20% recycled materials.
- More than 40% of the materials used for this addition will be manufactured within 500 miles of the project site.
- At least 50% of the wood used in this addition will come from sustainably managed forests certified by the Forest Stewardship Council (FSC).

Indoor Environmental Quality

Green buildings are designed to establish good indoor air quality for workers during construction and for the end users of the completed building. Environmental quality in terms of access to daylight and views are also considered.

- This addition will provide excellent indoor environmental quality for students, faculty and staff.
- Care will be taken to ensure contaminants were kept out of the building during construction, with an air quality plan, and through the selection of materials that emit less fumes. A full building flush-out will be performed at the end of construction.
- Ongoing air quality will be maintained through the use of green cleaning products.
- The addition is being designed to provide daylight to more than 75% of the classroom areas and outdoor views for 90% of occupants. Second floor light registers will provide daylight into the middle of the second floor.

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