

TWIN RIVERS ELEMENTARY/INTERMEDIATE

McKeesport, Pa



The Building

Name: Twin Rivers Elementary/Intermediate
Location: 1600 Cornell St, McKeesport, PA
Size: 127,000 sq.ft.
Overall cost: \$28 million
Stories: 2
Projected Date of Completion: Jan 2014

The Team

Owner: McKeesport Area School District
Architect: J C Pierce
General Contractor: PJ Dick.
Civil Engineers: Phillips & Associates, Inc.
Structural & MEP Engineers: Loftus Engineers
Environmental Engineers: American Geosciences, Inc.

Architecture

The building is a red brick that stands out against the expansive glass curtain walls. The k-6th grade students experience large naturally lit common areas. The school is expected to gain a Silver LEED certification. The building includes: Classrooms, offices, a library, a gymnasium, and a cafeteria.

Mechanical

- Vertical closed loop, earth coupled geothermal system utilizing heat pumps for heating and cooling
- Supplemental floor heating will be provided in kindergarten rooms and the library
- Ventilation system consists of Dedicated Outside Air Systems and rooftop heat pump units

Structural

- Continuous Wall Footing foundation placed 12 to 18 inches below grade
- Steel beam framing and Steel column system. columns will either be a wideflang or a HSS
- Interior walls are metal stud construction with gypsum board.

Electrical

- Power source is 208/120V, 3-phase, 4 wire and will provide approx. 10 W/ft².
- A UPS will be provided in case of an emergency and main power is lost.
- A 3000 A switchboard typical transformer is 75 kVa located in various electrical rooms

