



## East Providence High School

### East Providence, Rhode Island

**Project Owner: East Providence  
School Department**

Pare Corporation provided engineering services for the new East Providence High School, the first new public high school to be built in Rhode Island in over two decades. This \$189.5-million, four-story, 304,000-SF building is a 21<sup>st</sup>-century educational facility.

The school features ten science labs, a 900-seat auditorium, a digital music lab with practice rooms, and a gymnasium with walking track. The building also includes a Career and Technical Center with a construction lab, an automotive center, a culinary program space and café, graphic arts classrooms a broadcasting studio, a dental lab (the only high school dental hygiene program offered in the state), hydraulic growing rooms, and a greenhouse.

Early site work included subsurface investigations for soil and groundwater characterization, which identified areas of elevated lead and petroleum hydrocarbon concentrations. These areas were addressed as part of construction services reducing cost overruns, preventing worker exposures, and reducing on-

and off-site liabilities associated with contaminated soils.

The final stage of the project included upgrades to the athletic program including a lighted football stadium and multiple sports fields.

The project incorporates energy-efficient and healthy living design standards to qualify for NE-CHPS certification. The school is also equipped with the latest security features including 384 security cameras, bullet-proof glass, a two-step entranceway, and an HVAC system that monitors heat and carbon monoxide indexes.

Pare provided structural, site/civil, environmental, and traffic engineering services for the project.

Notable building features incorporated into the structural design include extensive glass curtainwall systems backed by structural steel; roof monitors; an elevated walking track; and sloped steel on the 3<sup>rd</sup> floor to support auditorium-style seating within open lecture halls. Large column-free spaces were required within the gymnasium, auditorium, and student commons

#### **Relevant Project Features:**

- *Structural, Site/Civil, Environmental and Traffic Engineering.*
- *Permit Applications.*
- *Green Stormwater Management Design.*
- *NE-CHPS.*
- *State and Local Permitting.*
- *Construction-Phase Services.*



area. Pare worked closely with the Architect to design framing members that could support upper-story classroom spaces while maintaining consistent floor-to-floor heights.