



East Stroudsburg High School-Additions and Alterations

EAST STROUDSBURG AREA SCHOOL DISTRICT EAST STROUDSBURG, PENNSYLVANIA



F. X. Browne, Inc. working in conjunction with The Architectural Studio of Allentown, Pennsylvania, developed the site engineering design including a low-impact stormwater management plan for alterations and additions to the East Stroudsburg Area School District's South Campus High School. The additions and alterations included the construction of approximately 67,250 square feet of new additions to the high school complex, renovations to the existing high school facilities, newly constructed parking areas, improvements and alterations to existing parking areas, construction of four new athletic fields, reconfiguration and renovations to the existing baseball field, reconfiguration and renovations to the existing stadium area, a new all-weather synthetic tract, the construction of new facilities for track field events (long jump, pole vault, etc.), the construction of new sidewalks, the removal of seven existing relocatable classrooms, and stormwater management controls, as well as upgrades and additions to other utilities serving the site.

F. X. Browne, Inc. developed innovative stormwater management designs to support the following project goals:

- minimize impacts/increase in stormwater runoff to adjacent properties;
- provide increased water quality benefits by reducing infiltration rates and providing soil filtration;
- provide a low impact development by minimizing the use of storm sewers and concentrated points of discharge, encouraging overland flow, and utilizing various methods of infiltration and filtration;
- protect the existing groundwater aquifer from pollutants.

F. X. Browne, Inc., was able to meet these goals by utilizing a variety of stormwater BMPs such as bioinfiltration and bioretention basins, infiltration trenches, and underground infiltration basins, allowing runoff to be captured and treated close to the source and eliminating the necessity for a stormwater detention basin.