

- **Owner:**  
Young Scholars  
Charters School
- **Services:**
  - Survey
  - Land Development Plan  
Preparation
  - Structural Design
- **Construction Cost:**  
\$600,000
- **Year Completed:**  
2017

*In June 2016, Ferguson Township approved Stahl Sheaffer's land development plan to add the second-story building addition to provide new classrooms and administrative support, as well as the design of a new driveway to improve traffic circulation. As part of the municipal approval process, Stahl Sheaffer completed a transportation impact assessment for the expansion, which included data collection, transportation analysis, report preparation, and meetings. The final phase of the school and site improvements were completed in 2017.*



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# Charter School Land Development & Structural Design



## Young Scholars Charter School of Central PA, State College, PA

Stahl Sheaffer was responsible for the survey and site design for the construction of the Young Scholars Charter School, and subsequent second-story addition and parking expansion projects. Stahl Sheaffer teamed with a local architect to provide land development services, including site layout and grading, parking lot design, stormwater management, erosion and sedimentation control plan, landscaping, site lighting, and buffer yard landscaping designs.



Stahl Sheaffer also led the structural design of three phases of construction for the school. A variety of structural systems were used due to architectural requirements. Phase one included a single-story wing of classrooms and offices, as well as a large gymnasium that doubles as a cafeteria. Portions of the entry and offices consist of CMU bearing walls, while the remainder consists of wood framed bearing walls. These supported prefabricated wood trusses. Foundation consists of strip footings, CMU foundation walls and slab on grade. Phase two included a new wing for classrooms. Stahl Sheaffer designed the structure to support adding a future second story on this wing. Phase three included the design of the

second story using wood-framed construction, prefabricated wood trusses, and an elevator. Stahl Sheaffer worked with the project team to provide the structural design of load bearing walls, foundations, lintel and header beams, and a loading summary. A phased development was implemented to allow current operation and future expansion of the charter school.