MATRIX
CONSULTING ENGINEERS, INC.

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LEED EXPERIENCE

Cooley Town Center

Renovate a two story building for Cooley Law School for use as a library, student assembly and study area.

Complete replacement of the existing mechanical and electrical systems with new. The final HVAC system consisted of a heat pump system with open cooling towers, heat exchangers and energy recovery units. The building was designed and constructed to become a LEED certified building. Matrix completed the energy model and commissioning to meet LEED requirements.

Key Elements in Scope of Work:

- Replace HVAC system to a new energy efficient
- system Energy Recovery Ventilation Systems
- Building Automation System
- Plumbing Systems
- Audio-Visual System coordination.
- Lighting design.
- Power distribution
- Data wiring.

Delhi Senior Center Holt, Michigan

7,400 square foot Senior Center is a geothermal heat pump system with energy recovery that primarily served Multi-Purpose rooms, office area and a kitchen. The energy model calculated the HVAC, lighting and power energy savings against the ASHRAE energy code compliant building we made and we were able to get 4 LEED points and save 23.9% in utility costs. Matrix worked with many design professionals providing the energy modeling requirements to get Delhi Senior Center LEED Certified.

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Griffin Beverage

A new 20,000 square foot beverage/recycling facility including office, large refrigeration system and open warehouse for storage and recycling. An energy efficient mechanical system was installed to serve the facility and electrically multistage day light harvesting system was used for optimal energy savings.

Olivet Arts Building

15,000 square foot 2 story Art Building consisting of multiple art labs and a display gallery. The HVAC consisted of multiple high efficient condensing furnaces with high efficient condensing units coupled with an energy recovery unit for ventilation. The Lighting consisted of high efficient fixtures with occupancy sensors. Plumbing consisted of low flow plumbing fixtures.