

**Firm:** Applied Engineering Services  
**Project:** Cummins Technical Center Control Room Replacement  
**Owner:** Cummins Inc.

A flood destroyed the existing control room in Cummins' large engine test cell facility, housing major mechanical and electrical equipment serving over 80 engine test cells. Applied Engineering Services was retained to complete a study and cost opinion that compared the cost of rebuilding the control room "As Was" (central location) or "Virtual" (distributed locations). Applied was awarded the turnkey project to rebuild the control room in a "Virtual" fashion. Project design and construction was broken into defined phases so construction could begin immediately on the most critical portion while design was still being completed on other phases. Applied had a full-time engineer at the site during the duration of the construction period to provide coordination and field engineering services in support of the project.

**Firm:** American Structurepoint, Inc.  
**Project:** IU Assembly Hall Reroof Bloomington, Indiana  
**Owner:** Indiana University

After four decades of hosting Hoosiers basketball games, it was time for Indiana University's Assembly Hall in Bloomington, Indiana, to get a facelift. American Structurepoint, Inc., teamed with Arsee Engineers, Inc., to evaluate the extent of water damage to Assembly Hall's deteriorating 77,000 square foot roofing system. Gaining access to concrete paneling 100 feet in the air, the team determined areas of damage without disturbing the suspended roof deck cabling system. American Structurepoint conducted field tests and performed construction administrative services for this \$2 million project, completing Phase I after just four months in September 2010, just in time for the Hoosiers to hit the hardwood for the upcoming basketball season.

**Firm:** American Structurepoint, Inc.  
**Project:** Lawrence, Indiana 2009-2010 Sanitary Sewer Evaluation Study  
**Owner:** City of Lawrence

To eliminate sanitary sewer overflows and to comply with an EPA order, the City of Lawrence contracted American Structurepoint, Inc., to evaluate its entire sanitary sewer system, including one million feet of sewers and 5,000 manholes. Collaborating with a team of subconsultants, American Structurepoint successfully developed flow metering and field investigation plans, analyzed flow and field data, collected and input data into the City's GIS system, and prepared a Sewer System Evaluation Study. The report was submitted to the EPA and the Indiana Department of Environmental Management. The firm's recommendations for system improvements resulted in a cost effective plan the City can implement without the need to raise sewer rates.

**Firm:** **Midwestern Engineers, Inc.**  
**Project:** Morgan County Water Improvement Project  
**Owner:** Morgan County Rural Water Corporation

The Morgan County Rural Water Corporation (MCRWC) provides water to areas in and around Morgan County. Due to significant customer growth, requirements to develop Well-head Protection plans, the need for emergency generation and MCRWC's desire for a second source of supply, improvement alternatives were considered. In order to augment their system, MCRWC recently completed the "Morgan County Water Improvement Project" that utilized a connection to Indianapolis Water. The project enabled MCRWC to purchase up to 2 MGD to supplement existing supply/treatment capabilities, increased storage capacities and provided emergency generation. MCRWC can now either produce or purchase (or a combination thereof) all water necessary and their system has needed flexibility, reliability and growth potential.

**Firm:** **GRW Engineers, Inc.**  
**Project:** 18th & Macedonia Stormwater Project  
**Owner:** Muncie Sanitary District

GRW helped the Muncie Sanitary District form a new utility to comply with federal regulations and provide dedicated stormwater funding. The 18th and Macedonia project was the largest stormwater project in a generation. The use of green stormwater management transformed the neighborhood from one that suffered for decades with standing water and deteriorated property values, into a revitalization area for which the residents and the District will take pride. Seventy-two property owners dedicated easements to allow construction of the collection system. The engineers and contractors resolved numerous conflicts with existing utilities to install the large pipes.

**Firm:** **DLZ Indiana, LLC**  
**Project:** Nashville Storm Water Drainage Improvements  
**Owner:** Town of Nashville

The goal of this project was to improve the storm drainage system in the Town of Nashville, Indiana, in an approximate five block area of downtown that was prone to flooding due to its dilapidated drainage system. The majority of this existing system was abandoned and rerouted to a new, more logically located pipe network. Creativity was used in order to tie in with the existing system, maintain proper pipe slopes, and avoid utility conflicts. A storm water quality unit to remove contaminants from the storm runoff was a new technique introduced to the Town. Curbs, ramps, and sidewalks were also constructed to improve drainage and provide aesthetics and better connectivity for the public.