

## Southern Illinois University Transportation Education Center

Southern Illinois University

### *Location*

Southern Illinois Airport

### *Construction Completion*

2010

### *Construction Cost*

\$47 million

### *DMA Services Provided*

Civil Engineering  
Surveying Services



Architectural rendering

The Transportation Education Center (TEC) is a student oriented education concept designed to promote education to careers serving students in Southern Illinois University's applied transportation degree programs. TEC will unite the Automotive and Aviation degree programs, students, and faculty in one location at the Southern Illinois Airport. The Aviation Management Program has been located at the Applied Sciences and Arts building on the main campus since 1973. TEC will consolidate Aviation Management's location with other Aviation programs, especially Aviation Flight, at the Southern Illinois Airport.

David Mason & Associates provided civil engineering, overall site topographic survey, utility and Airport Authority coordination, to further include, TEC grading, drainage, pavement, storm water control design and construction documents. All of the designs were to maximize the Leadership in Energy and Environmental Design (LEED), Green Building Rating System. Gold level certification is being sought and several Site/Civil parameters were critical to overall project attainment. Stormwater design was the most difficult to attain because wash down areas for cars and airframes had to be lined and filtered before returning to the storage basin for reuse. Stormwater was also determined to be used for sanitary flushing of toilets and for parts washing in the automotive test cell classrooms. The stormwater storage facility would also double as a storage tank for rural fire fighting capability. The basin would also benefit the overall area by providing a public service beyond its boundaries.

