

***Maynard H. Jackson International Terminal
Automated People Mover Tunnel Expansion***

Project:	Automated People Mover (APM) Tunnel Expansion for MHJIT
Client:	Geocomp Corporation
Location:	Hartsfield Jackson Atlanta International Airport (HJAIA)
Completion	Completed



Objective: To provide real time performance monitoring in order to manage the risk to existing airport structures during excavation work required to extend the APM tunnel from Concourse E to the new Maynard H. Jackson International Terminal at HJAIA



The APM Tunnel project involved the open-cut excavation of twin tunnels as wide as 67 feet in fill soils of varying composition. The tunnels also passed through existing structural walls at Concourse E, requiring significant demolition of portions of these walls. Excavation in variable consistency ground is suspect to unexpected behavior such as sudden deformation or ground collapse which could have caused significant disruption in airport operations in the area of the work, potential hazard to people, damage to equipment and delays.

In 2008 through 2011, MME was contracted by Geocomp Corporation to complement their efforts in managing construction risks for HJAIA using a real time monitoring program system. The system provided early warnings of unacceptable or surprise performance in time so that protective measures can be implemented to stop undesirable performance or reduce the consequences. MME's responsibilities included automating the underpinning pits and setting up automatic total stations to determine and evaluate any structural or geotechnical movement.

