



### North Terminal Development

The Corgan Team, Turner-Austin Airport Team

#### Miami International Airport

*BNi is a member of the program management team for this 3.2 million sf, phased \$1.5 billion expansion and renovation project. As one of the busiest airports in the world, Miami International Airport (MIA) is the gateway to Latin America and the Caribbean. American Airlines operates over 55% of MIA's flights. The \$1.3 billion North Terminal Development was conceived to unify all of American's operations into a single 1.3-mile long super concourse.*

*American retained Corgan Associates, Inc. of Dallas, TX to execute the planning and programming of this facility, with BNi as lead structural engineer from master planning through advanced design development. Our services, which began in 1997, also include review of construction document packages prepared by the various A/E teams as well as review of construction. By the 2009 scheduled completion, there will be 47 gates in 1.9 million sf of new construction and 1.3 million sf of renovation.*

*The building design combines new and existing structures into an integrated architectural expression. A four-station passenger train (Automated People Mover) rides above the 46' high building roof and is serviced in an integral maintenance yard that extends 90' above grade. The rhythm of the structure is expressed on both the facade and the concourse. Wind tunnel testing simulated hurricane force loading and the results were used in the design and placement of shear walls and lateral bracing that would maintain the openness of the interior.*

*Design and construction phasing is the greatest challenge. After the sequencing and phasing analysis, the NTD has been packaged and scheduled into 35 separate design and construction projects, some with multiple packages.*

#### AVIATION PROJECTS

##### Concourse G

Miami International Airport  
Replacement of existing Concourse G with new 295,000 sf International Concourse

##### "E" Satellite Extension

Miami International Airport  
Westward expansion of the existing Concourse E International Satellite, adding 11 new international gates in a 3-level, 377,000 sf facility refurbishment of existing space, construction of chiller plant (project abandoned after completion of design)