



Memphis International Airport

Memphis, Tennessee

MSCAA Master Plans
Preferred Terminal Alternative
Memphis Shelby County Airport Authority | 2021

The Memphis Terminal alternative aims to modernize the existing terminal while preserving the iconic architecture of the original terminal building. The planned renovation of the existing terminal expands the footprint of the terminal providing a space for an inline baggage screening system.

Baggage analyses and forecasts were performed for five different planning levels to determine the outbound and inbound baggage requirements for each of the planning levels. The analyses showed the need for a new high-speed screening system to support the forecasted demand. The outbound analyses necessitated the need to expand the existing make-up operations.

The planned baggage system incorporates the existing ticket counter location and alters the rights-of-way to merge onto a new baggage chase on the south exterior of the building. The new ticketing mainline conveys bags to the west end of the terminal building and into the new inline screening area.

The new screening system consists of a PGDS 7.0 compliant screening matrix with 3 machine screening matrix and a new Checked Bag Resolution Area.

Outbound sortation is performed via a single mainline, a new manual encode station, two new make-up devices, and three refurbished make-up devices. The existing orientation of the make-up devices is preserved for the first three planning levels due to the limitations of the existing building. The planned expansion of the airside marketplace allows the make-up devices to be rotated 90 degrees during the last two planning years to provide space for additional make-up devices and cart staging.

The forecasted inbound demand requires two additional domestic claim devices as well as a single claim device for the new Federal Inspection Services area.

The master plan also included the right-of-way reservation for three remote check-ins and bag drops. Two bag drops are located in the economy and premium parking garages; the third is reserved for the future CONRAC.



ASSOCIATES, INC.

BNP PROJECT TEAM

Dave Mecartney, Principal
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TOTAL CONSTRUCTION AMOUNT

US \$422.2 million

BHS CONSTRUCTION AMOUNT

US \$46.2 million

REFERENCE

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SCOPE OF SERVICES

Analysis Study
Conceptual Design
Master Plan