



WILMINGTON INTERNATIONAL AIRPORT

Wilmington, North Carolina

TERMINAL RENOVATIONS AND EXPANSION PROGRAM

New Hanover County Airport Authority | 2019 – 2020

As part of the Wilmington International Airport Design Team, BNP Associates, Inc. performed design and construction administration services with related system inspections and testing, on behalf of the New Hanover County Airport Authority, for the outbound baggage handling and checked baggage inspection systems (CBIS).

The replacement and expansion of the existing outbound baggage handling system with associated ticketing, CBIS, and make-up was considered one of the Authority's major upgrades and improvements of the program. The renovations and expansion of the Terminal was performed under two separate contracts, over a two-year period, in a phased implementation process to maintain ongoing airline operations; Contract 1 was the enabling works involving the replacement of the existing bag screening and make-up operation with a more ergonomically efficient layout that permits the construction of Contract 2 for the Terminal expansion and final layout of the outbound baggage system. These improvements address deficiencies in the size and configuration of the existing facility spaces and increase passenger-processing capacity for the forecasted flight schedules, all while minimizing impact to the existing operations and maintaining operational simplicity.

The overall outbound CBIS program included two new ticket counter conveyor lines, a completely reconfigured CBIS, and a common-use incline plate baggage make-up device. The new ticket counters and baggage make-up operation have been installed in the expanded portion of the Terminal. The replacement and expansion of the existing outbound baggage handling system with associated ticketing, CBIS, and make-up was considered one of the Authority's major upgrades and improvements of the program. The layout of the new CBIS also permits the addition of a third EDS machine, in a similar configuration as the newly installed units, for future considerations. The outbound baggage make-up device, which is fed from the new consolidated screening area, is 200 linear feet long and accommodates 12 cart positions. The outbound operation also includes a 10' wide oddsize conveyor chute for oversize baggage.



ASSOCIATES, INC.

BNP PROJECT TEAM

Nick Triantafilidis, Project Director
Tony Lensing, Sr. Project Manager
Steve Walker, Project Manager
Nicole Stark, Sr. Designer

TOTAL CONSTRUCTION AMOUNT

US \$11 Million

BHS CONSTRUCTION AMOUNT

US \$3 Million

REFERENCE

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SCOPE OF SERVICES

Conceptual Design
Design Development
Contract Documents
Bidding and Procurement
Construction Monitoring