



Kansas City International Airport

Kansas City, Kansas

New Terminal Baggage Handling System

Kansas City Dept. of Aviation | 2017 – 2022

BNP was retained by the Kansas City Dept. of Aviation to provide design consultancy and commissioning services for the Kansas City International Airport New Terminal project. This New Terminal is a 40-gate facility replacing the entirety of the existing terminals. The project consists of entirely new baggage handling systems including ticket counters, curbside lines, checked baggage inspection system, sortation, makeup, oversized, baggage claim, and international recheck subsystems. BNP worked closely with the airport, the TSA, and SOM Architects through all phases of design, bidding, and construction administration.

The New Terminal BHS required a self-redundant system which would allow all current and future airlines to utilize a common system and provide all required baggage handling-related processes to take place within the confines of the space provided in the terminal and along the concourse connector neck. Multiple iterations of flight schedules based on various gate counts were analyzed to determine subsystem component quantities, including ticket counters, feed lines, security screening equipment, makeup equipment, and baggage claim devices.

BNP also produced all documentation to assist the Airport in selection of BHS technology types. BNP produced conceptual designs for both Individual Carrier System (ICS) and conventional conveyor systems and provided dual procurement packages for pricing. Analysis was also completed on the space requirements, travel times, and costs for each of these two designs. This analysis allowed the Airport to select the conventional conveyor design, which was the more appropriate design for the project.

BNP supported all phases of the construction, including submittal review, construction observation, factory acceptance testing, and system commissioning. Construction is planned to complete in late 2022.



ASSOCIATES, INC.

BNP PROJECT TEAM

Steve LaPorta, Principal
Asher David, Project Director
Kyle Zalmstra, Sr. Designer

BHS CONSTRUCTION AMOUNT

US \$45 million

REFERENCE

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SCOPE OF SERVICES

Analysis Study
BHS Technology Selection
Conceptual Design
Design Development
Bid Documentation
Construction Administration
Testing & Commissioning