



# Ellison Onizuka Kona International Airport

Kalaoa, Hawaii

## Terminal Modernization Project Phase 1

State of Hawaii | 2016 – 2019

The terminal modernization project at the Ellison Onizuka Kona International Airport, the primary airport of the island of Hawaii, US, was initiated in March 2017 as part of a wider \$75m Hawaii Airports Modernization Program, which envisages the development and modernization of all airports on the island. Governor David Ige has released \$40.4 million for improvements to the Ellison Onizuka Kona International Airport.

The airport currently handles roughly 9% of Hawaii’s air traffic and experiences an annual passenger footfall exceeding three million. The airport has regular flights from national and international destinations such as the US mainland and Canada. The facility was primarily designed for modes inter-island operations and is therefore in need of a major upgrade to adapt to the current amount of traffic, as well as adequately handle the predicted increase in activity the site is due to experience. This is expected to be a combination of domestic, international, overseas, commuter and general aviation activities.

The modernization project aims to transform the facility into a second point of entry into Hawaii. It will also streamline the terminal’s operations by reorganizing the existing layout and improving some of its key areas. The primary design intent of the modernization project was to provide a new in-line baggage handling system (BHS) with an explosive detection system (EDS) for baggage screening, which will improve the work efficiency of the TSA. The new baggage handling system also features new baggage make-up facilities located on the ramp level.

The design team identified and compared multiple alternatives for consideration utilizing multiple EDS devices and BHS layouts. The alternatives selected were presented for review by the major stakeholders of the airport including the terminal airlines, operations, maintenance, ramp, architect and owner’s representatives.

The preferred alternatives were further refined throughout the design stages for TSA submission and approval. All designs provided were developed in accordance with the latest industry guideline documentation with an emphasis placed on the Planning Guidelines and Design Standards V5.0 issued by TSA. BNP provided complete phasing, contingency planning, configuration management documentation as well as schedule and estimation updates. Final for bid drawing and design specifications were provided including multi-disciplinary phasing coordination and document review.



ASSOCIATES, INC.

### BNP PROJECT TEAM

David Mecartney, Principal  
Calvin Trudeau, Project Director  
Mitch Ellingson, Project Manager

### TOTAL CONSTRUCTION AMOUNT

\$40.4 Million

### BHS CONSTRUCTION AMOUNT

\$25 Million

### REFERENCE

State of Hawaii  
Department of Transportation  
Airports Division  
Honolulu International Airport  
400 Rodgers Boulevard, Suite  
700  
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### SCOPE OF SERVICES

Conceptual Design  
Design Development  
Ergonomic Improvements  
Analysis  
Bid Documentation  
Testing & Commissioning