



Daniel K. Inouye International Airport

Honolulu, Hawaii

HNL Diamond Head
Extension Development Plan
State of Hawaii Department of Transportation
Airports Division | 2020 – 2021

BNP, as part of the Advanced Planning Study team for the Diamond Head Extension Development Program, conducted a static analysis of baggage handling system (BHS) requirements for all Lobbies at Daniel K. Inouye International Airport (HNL). Demand requirements have been developed for design year 2033 and design year 2043.

The provided flight schedules for this analysis included the flights for airlines operating in the respective lobbies of HNL Terminal 1 and Terminal 2 for forecasted for years 2033 and 2043. This static analysis provided a snapshot of peak requirements for the forecasted demand of a fundamentally dynamic baggage operation. This static analysis was based on an allocation of flights to the new facility in Diamond Head, A passenger survey was conducted by a third party, TransSolution, and the results were used as parameters in the flight analysis to determine baggage requirements. The information used in the analysis was also based on data provided by the airlines. The static analysis findings were compared with the inbound and outbound existing(legacy) BHS capacity in each lobby.

Conclusions and recommendations were submitted to the stakeholders including several options to improve passenger level of service and operations in different lobbies for the outbound and inbound baggage handling system. Some of options consisted of reallocation of flights from the existing lobbies to the new baggage system in the new Diamond Head facility.

Space requirements, supporting engineer scope and cost estimates for the new inbound and outbound baggage system in the Diamond Head facility were presented to the stakeholders.



ASSOCIATES, INC.

BNP PROJECT TEAM

Calvin Trudeau, Project Director
Marius Nica, Project Manager

TOTAL CONSTRUCTION AMOUNT

US \$125 million (estimated)

BHS CONSTRUCTION AMOUNT

US \$25 million

REFERENCE

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SCOPE OF SERVICES

Analysis Study
Conceptual Design