

THE EASTERN IOWA AIRPORT, CEDAR RAPIDS, IOWA CHECKED BAGGAGE MINI IN-LINE PROJECT

**OWNER:**

THE EASTERN IOWA AIRPORT

OWNER'S REPRESENTATIVE:

ERIC SCOTT – FOTH ENGINEERING
PROJECT MANAGER

BNP PROJECT MANAGER:

ATIF RIZVI

LOCATION:

CEDAR RAPIDS, IOWA

COMPLETION DATE:

DESIGN: 01/2011 – 08/2011
CONSTRUCTION: 09/2011-10/2012

BHS CONSTRUCTION AMOUNT:

US \$1.9 MILLION – BOTH PHASES

TOTAL CONSTRUCTION AMOUNT:

US \$5.5 MILLION – BOTH PHASES

REFERENCE:

SARA FREESE – DIRECTOR
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SCOPE OF SERVICES:

CONCEPTUAL DESIGN
DESIGN DEVELOPMENT
CONTRACT DOCUMENTS
BIDDING AND PROCUREMENT
CONSTRUCTION MONITORING

RELEVANCE:

A FULLY INTERGRATED, MINI-
INLINE SYSTEM WITH COMMON
USE TICKET COUNTERS AND MAKE-
UP DEVICE.

The Eastern Iowa Airport (CID) is a commercial airport in Cedar Rapids, Iowa. The airport serves Cedar Rapids, Iowa City and other communities in eastern Iowa. The airport serves 14 destinations with a total of 5 different airlines.

A mini inline system was designed, tested and monitored by BNP Associates at the Eastern Iowa Airport. Prior to this system, the Eastern Iowa Airport did not have a baggage handling system and screened all bags in the lobby of the airport. American, United, Delta, Frontier and Allegiant share the use of the baggage handling system at the Eastern Iowa Airport.

BNP Associates, Inc. was retained by the Eastern Iowa Airport under the Architect – Miller Dunwiddie - to design and coordinate an outbound and inline checked baggage inspection systems (CBIS) capable of screening all outbound baggage. The CBIS's design consists of two (2) EDS machines fed by one (1) common use ticket counter and one (1) independent Out of Gauge line.

Due to the reconfiguration of the lobby and building extension, the project was broken into two separate projects. Due to the multi-airline use of one shared system, Phase 1 of the project was to combine all the airlines into one "common use" ticketing area with one shared makeup unit device. Phase 1 of the project did not include any funding from the TSA as only non-CBIS related items were included in this phase. This included a one (1) new makeup unit device and twelve (12) new ticket counters and associated conveyor belts. Bag screening continued to take place in the airport lobby.

Phase 2 of the project was the design and construction of a fully integrated mini in-line system. TSA funded approximately 95% of Phase 2. The construction of phase 2 began in the winter of 2011 and the system was commissioned and turned over for operational use in October 2012. The existing EDS machines in the lobby of the airport were removed in December 2012 and gave the Eastern Iowa Airport much needed additional space for their use.

BNP's design incorporated the latest TSA Planning Guidelines & Design Standards making the CID baggage handling system design fully compliant to TSA's current protocol for 100% inline certified EDS checked baggage screening. Furthermore, the final design of the mini in-line system allows the installation of an additional EDS machine in the future, if needed due to airport growth.