

DEN TSA RECAPITALIZATION AND BAGGAGE HANDLING SYSTEM MODERNIZATION EFFORTS

AUGUST 24, 2022

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AGENDA



- Implementing Vision 100
- City Council Request
- Contract Overview
- TSA Recapitalization Scope
- BHS Modernization & Controls Scope
- Project Summary & Timeline
- DBE Project Approach
- Project Benefits
- Q&A





100 MILLION ANNUAL PASSENGERS

SUSTAINABILITY & RESILIENCY • EQUITY, DIVERSITY & INCLUSION
 CONTINUOUS STAKEHOLDER INPUT/FEEDBACK • ENHANCING THE CUSTOMER EXPERIENCE

PILLAR 1



PILLAR 2



PILLAR 3



MAINTAINING WHAT WE HAVE

PILLAR 4



EXPANDING OUR GLOBAL CONNECTIONS

VISION 100



• The efficient processing of bags is a critical operational need for DEN and directly correlates to enhancing customer experience.

VISION 100 DEN	GUIDING PRINCIPLES		
SUSTAINABILITY & RESILIENCY	EQUITY, DIVERSITY & INCLUSION	CONTINUOUS STAKEHOLDER INPUT/FEEDBACK	ENHANCING CUSTOMER EXPERIENCE
We want to become the greenest airport in the world.	We are better when everyone has a seat at the table and when we respect and listen to all viewpoints.	DEN is bigger than just us. We must all work together to be successful!	This is our core business, and we have to exceed the needs and desires of travelers.

CITY COUNCIL REQUEST



Approve a contract with PCL Construction Services, Inc. for \$500,000,000 and five (5) years to
design and build the Transportation Security Administration (TSA) Recapitalization and Baggage
Handling System Modernization project at Denver International Airport in Council District 11
(202262907).

CONTRACT



Master Baggage Handling System (BHS) Design-Build, Capacity-Based Contract

- Contract terms: 5-year duration, not to exceed \$500,000,000 contract capacity
 - Guaranteed Maximum Price (GMP) proposals will be requested per scope of work and approved through separate task orders under this contract
 - TSA funded recap scope and FAA-funded modernization scope will proceed upon contract execution –
 additional work scopes will be advanced as funds become available
 - Source of funds: CIP, TSA Other Transaction Agreement, and FAA grant(s)
- DEN conducted a competitive RFP (202262907) for design/build services
 - RFP was issued on BidNet April 22, 2022
 - Four responsive proposals were received May 19, 2022
 - Selection panel recommended PCL Construction Services, Inc. for award
- Selected contractor: PCL Construction Services, Inc.

TSA RECAPITALIZATION SCOPE



- Replaces 31 existing inline CTX explosive detection screening (EDS) machines with 25 new, more advanced EDS machines
 - New equipment will screen 674 bags per hour vs 400 bags per hour today
- Modifies two Checked Baggage Inspection System (CBIS) modules to include additional capacity (3,000 bags), bag routing to EDS equipment, and new fail-safe locations



DEN's Existing EDS Equipment

BHS MODERNIZATION & CONTROLS SCOPE



- Replaces end-of-life BHS equipment like high-speed diverters, transport conveyors, power turns, merges, motors and gearboxes, automatic tag readers, and other equipment that is past the life expectancy (20 years)
- Upgrades the control system across entire BHS allowing continuity and supporting standard operating procedures
- Adds Intelligent Power Savings (IPS) functionality by programming implementations
- Implements new BHS interfaces along with essential monitoring capabilities



DEN TML Level 3 – Existing High-Speed Diverter

PROJECT SUMMARY



TSA Recapitalization	Total Cost
Project Cost (Estimated)	\$130,840,000
TSA Funding Commitment (Other Transaction Agreement)	-\$55,860,361
DEN CIP Contribution	\$74,979,639

BHS Modernization & Controls Upgrade	Total Cost
Project Cost (Estimated)	\$97,000,000
FAA Funding Requested (2022 BIL FAA Funding Opportunity)	\$77,600,000
FAA Funding Commitment (2022 BIL FAA Funding Opportunity)	-\$60,000,000
DEN CIP Contribution	\$37,000,000

PROJECT OUTCOMES

51%

Overall project budget funded by federal grants

100%

Replacement of TSA's existing baggage screening equipment

80%

Replacement of BHS components past the 20-year life expectancy

FUTURE PROJECT SUMMARY



Curbside Conveyor Replacement/Controls Upgrade	Total Cost
Project Cost (Estimated)	\$47,000,000
FAA Funding Requested (2022 BIL FAA Funding Opportunity)	\$37,600,000
DEN CIP Contribution	\$9,400,000

Baggage Claim & Feed Conveyors Replacement	Total Cost
Project Cost (Estimated)	\$74,000,000
FAA Funding Requested (2022 BIL FAA Funding Opportunity)	\$59,200,000
DEN CIP Contribution	\$14,800,000

BHS Inbound/Outbound Lifts Replacement	Total Cost
Project Cost (Estimated)	\$72,000,000
FAA Funding Requested (2022 BIL FAA Funding Opportunity)	\$57,600,000
DEN CIP Contribution	\$14,400,000

PROJECT TIMELINE





DBE PROJECT APPROACH



DBE Goal commitment = 9%

PCL Construction Services, Inc. has identified the following DBE Partners



DBE PARTNERS		
Firm	Role	
Burgess Services (PCL Protégé)	Design and Construction Integration	
Iron Horse Architects	Architect of Record	
ZANN, Inc.	DBE Coordinator	
HCL Engineering	Structural Engineering	
Civil Technology	Field QA/QC	
Shrewsberry & Associates, LLC	Project Quality Management (PQM)	
Group 14	Commissioning	
Ramirez, Johnson & Associates Engineering	Mechanical & Plumbing Engineering	
PK Electrical	Electrical Engineering	
Digital Building Services	BIM Scanning Support	
Motion Design	BHS/CADD Support	

DENVER INTERNATIONAL AIRPORT 12

PROJECT BENEFITS

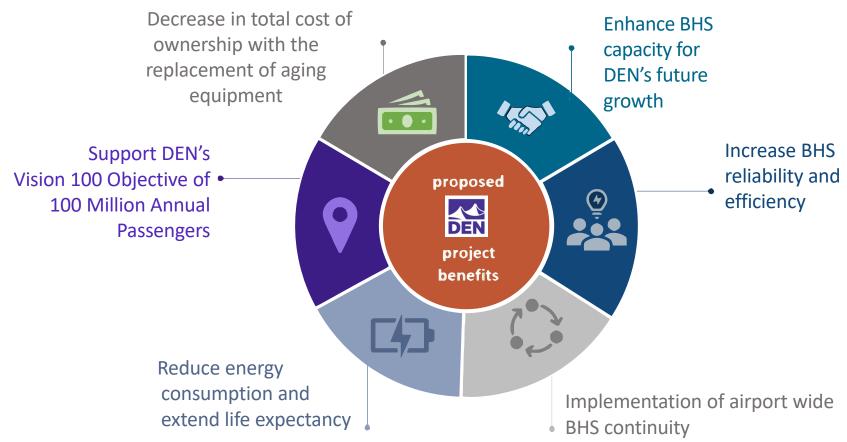


- Enhance baggage screening capacity to meet our airline partners' future growth and assist in achieving DEN's
 Vision 100 strategic plan
- Increase reliability and efficiency of the BHS meaning fewer impacts to our stakeholders
- Airport-wide continuity with upgrades/replacements reducing total cost of ownership
- IPS functionality to extend life expectancy and reduction of energy consumption



PROJECT BENEFITS





QUESTIONS?



