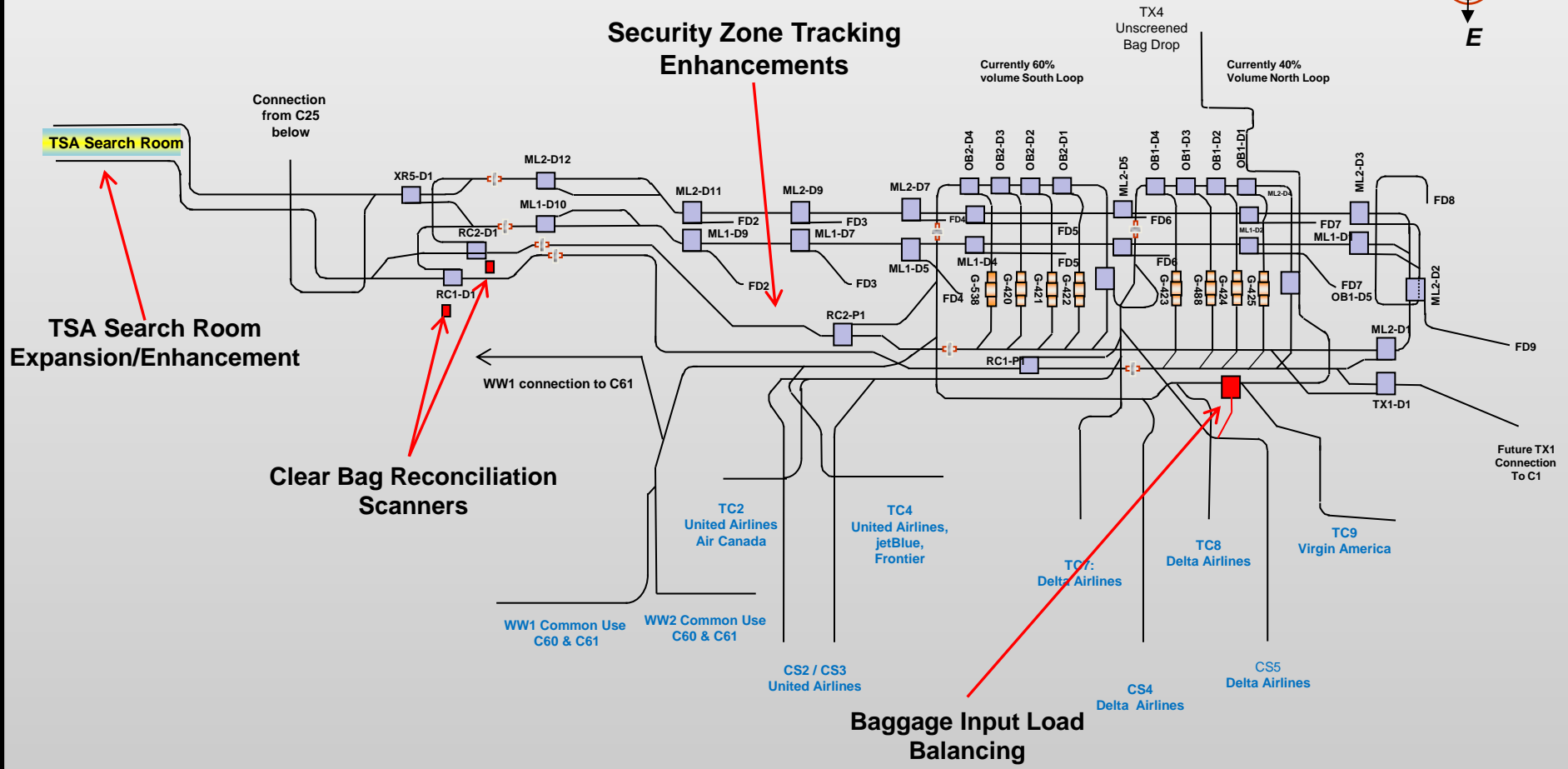
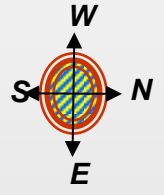


# C60 Interim Baggage Handling System Project



# C60 Street Map



- Legend:
- VS = Vertical Sorter
  - DV = Diverter
  - OS = Oversize / Oddsize
  - ED = Explosive Detection Line
  - TX = Transfer Line
  - CS = Curbside Line
  - TC = Ticket Counter
  - RC = Recirculating Line
  - ML = Main Line
  - VM = Vertical Merge
  - CB = Clear Bag Line
  - SB = Suspect Bag Line
  - XO = Crossover Line
  - XR = X-Ray Line



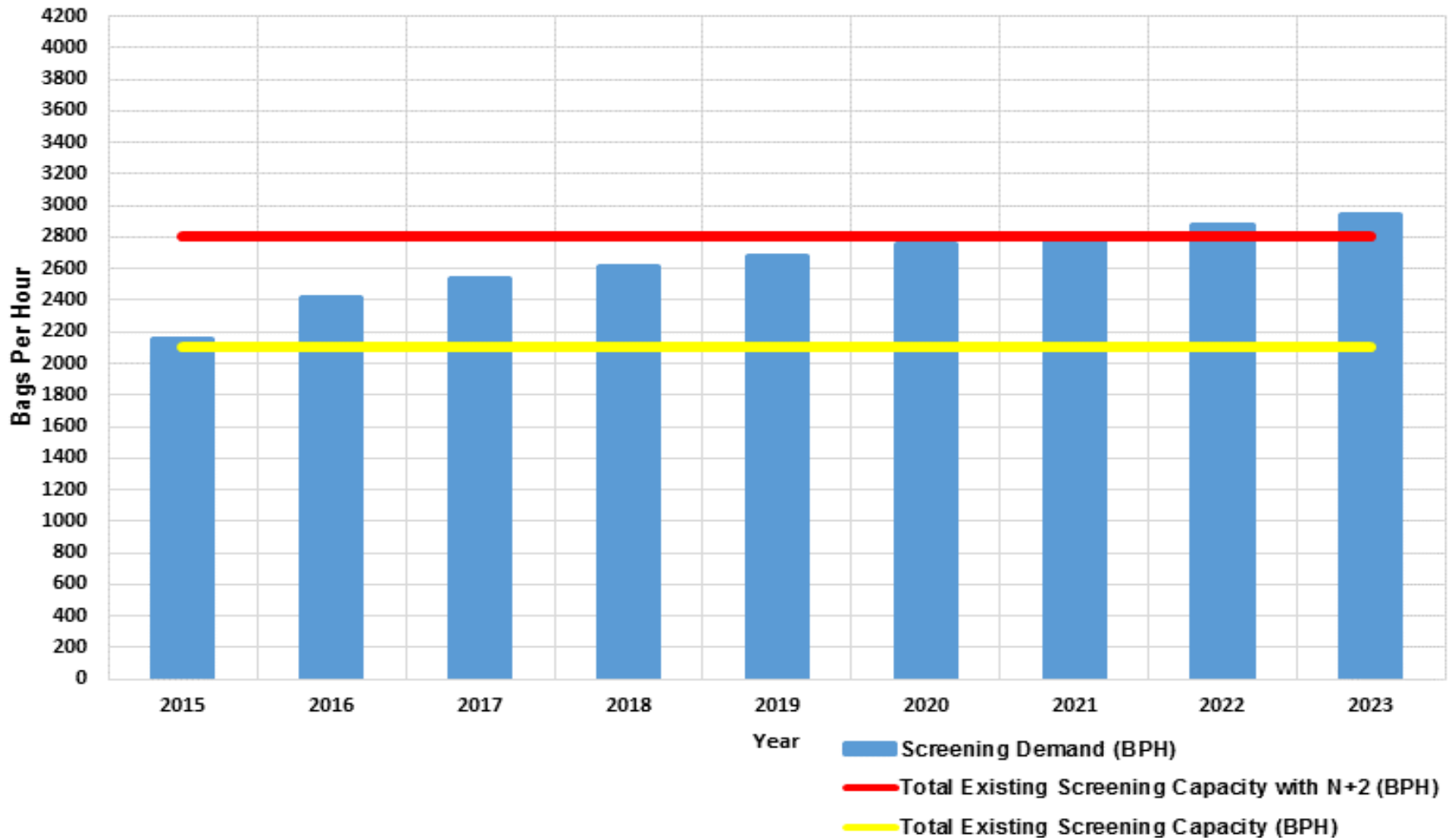
REV. 09/2015

# Scope and Justification

- C60 baggage system has exceeded capacity during peak operations;
- All airlines use, or may use C60 either through normal operations or through irregular operations;
- Each interim element is most likely to provide immediate operational relief and efficiency gains for the C60 system;
- Without these improvements it is likely that some baggage volume would need to be moved to the north systems, C1 and C88, creating additional capacity issues for those systems; and becoming extremely manual;
- Baggage Optimization will not be ready to replace the C60 system for several years – estimated date of completion is 2023.

Urgency of this project is very high to meet demands by summer 2016.

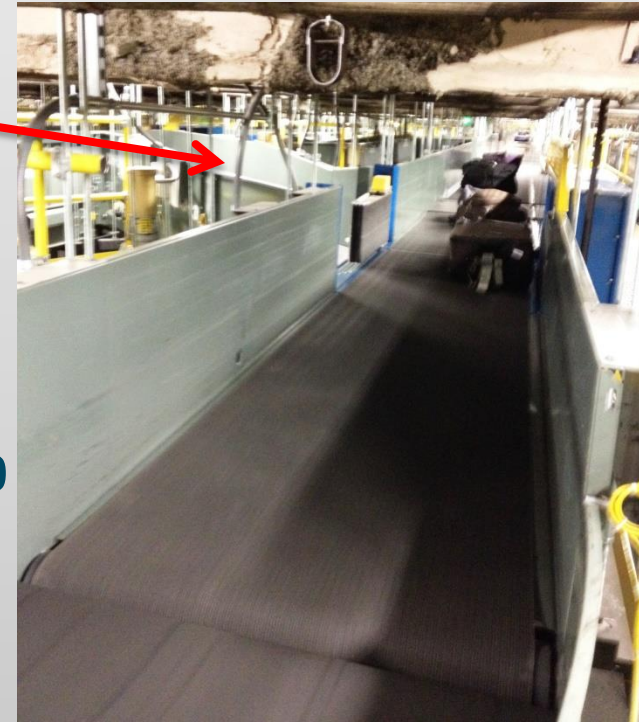
### C60 Bag Screening Demand EDS Replaced/Upgraded to Capacity of 350 BPH (6 redundant, 8 total)



C60 system is out of screening capacity at peak.

# Baggage Input Load Balancing

- Scope: Install crossover TX-4/TC9-OB1
- Estimated Cost: \$970,000
- Benefit:
  - Allows for better balancing of the two screening loops
  - Current load balancing approximately 60/40 between the two loops
  - Desired state 50/50 load balance
- Estimated Completion Date: Summer 2016



Reduces impacts to customer service during peak operations.

# TSA Search Room Expansion/Enhancement

- Scope: Expand the C60 search room and install additional feeds, additional Explosives Detection System (EDS) machine, second input belt and increase the number of search tables
- Estimated Cost: \$7,730,000
- Benefit:
  - Increases physical size of TSA search room
  - Adds second feed line enhancing baggage flow
  - Removes hurdles TSA experiences in providing enough screening positions to handle the baggage volume
  - Provides redundant feed to the room
  - Installs a new EDS in the room for reinsertion bags
- Estimated Completion Date: Q4 2016 – Q1 2017



Improves baggage flow by alleviating a significant bottleneck in the system.

# Security Zone Tracking Enhancements

- Scope: Modify the slope from in-feed and discharge conveyors into and out of the CTXs and improve tracking within the security zone of the C60 system
- Estimated Cost: \$5,200,000
- Benefit:
  - Reduce the amount of tumbling bags and subsequent tracking issues
  - Programming changes will enhance tracking throughout the system
- Estimated Completion Date: Summer 2016



Reduces the total bags to TSA search room therefore improving overall system performance.



# Clear Bag Reconciliation Scanners

- Scope: Install two decision diverter hand scanners
- Estimated Cost: \$300,000
- Benefit:
  - Provides ability to determine which bags are **required** to go to the TSA search room
  - Reduce the number of bags the POS employee needs to physically move
  - Reduces the amount of bags to the TSA search room
  - Design will be incorporated into Baggage Optimization
- Estimated Completion Date: Summer 2016



Reduces the total bags to TSA search room and improves worker safety.



# Interim Baggage Program Budget

Baggage Input Load Balancing	\$970,000
TSA Search Room Expansion/Enhancement	\$7,730,000
Security Zone Tracking Enhancements	\$5,200,000
Clear Bag Reconciliation Scanners	\$300,000

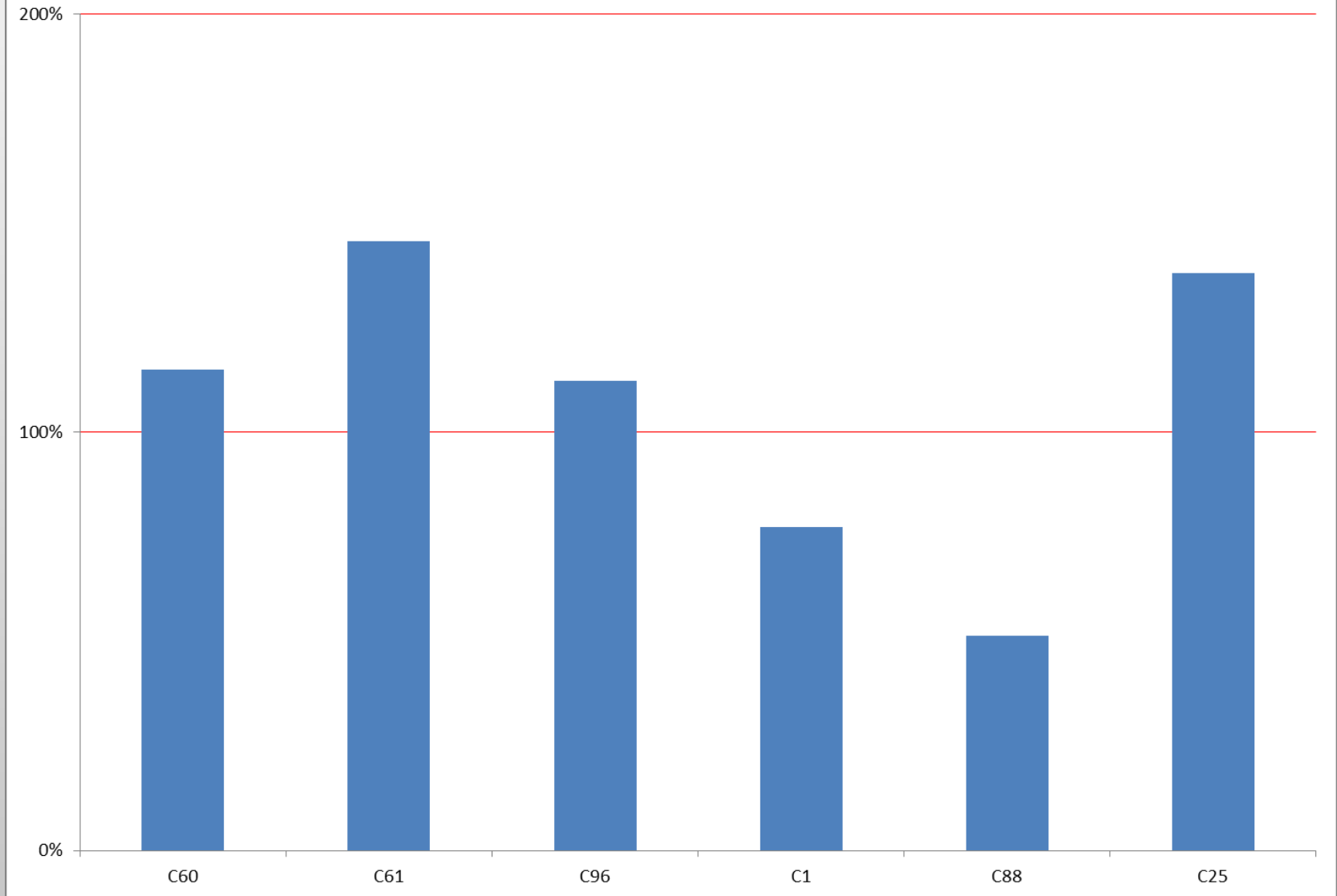
**Total Project Costs: \$14,200,000**

# Assumptions and Risks

- Fast-tracked project.
- Additional interim projects for other systems are being developed.
- Procurement of materials and services may challenge schedule.
- The goal of this project is to complete all elements prior to summer 2016, or as soon thereafter as possible.
- Assumes TSA will provide an EDS for the TSA search room expansion/enhancement scope element.

This project will require an accelerated delivery process to meet the needs of our customers.

## 2016 Screening Demand Per Baggage System



Capacity analyses are being conducted for all systems. Additional interim projects will be required.

# Progress

- Service directives for design have been approved.
- Design has started on the work elements.
- Specifications for long lead items have been developed and in progress for delivery.
- Baggage capacity analyses on all systems have been completed. Future interim projects are being considered.

Fast-tracked plan is progressing and initial funds are being utilized.