

Service Tunnel Seismic Improvements

CIP #102112

Service Tunnel
Renewal Replacement

Project Goals and Budget

- **Project Goal:** Preserve and protect critical Airport infrastructure and improve life safety by seismically reinforcing the Service Tunnel structure
- **Project Budget:** \$27.6M
- **Project Schedule:** Spring 2014 to December 2018



Key Service Tunnel Facts



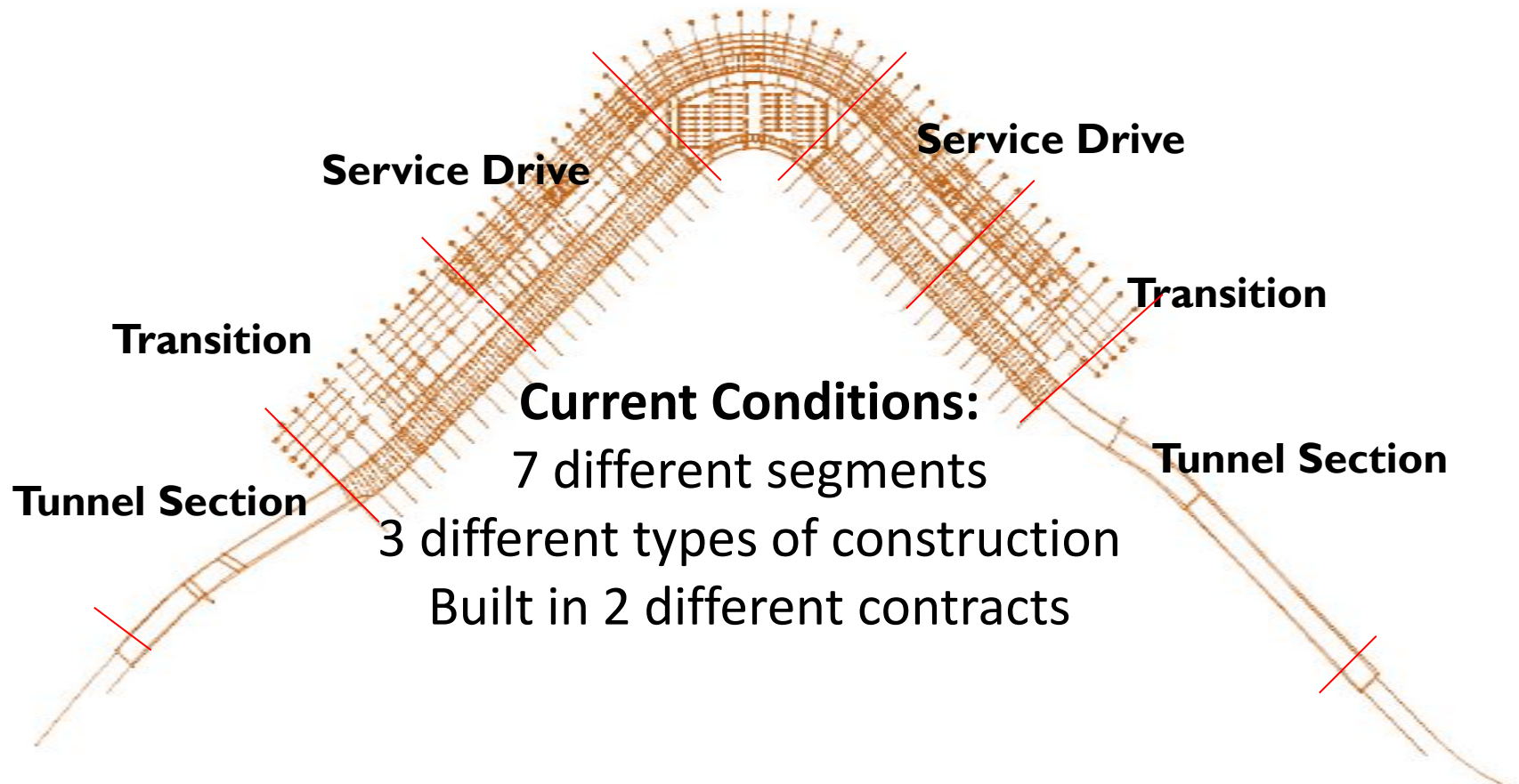
- Service Tunnel Length = 2,500 ft.
- Two portals, one north and one south from Air Cargo Road
- Driving surface for Arrivals drive and structurally integrated to Main Terminal and Departures drive
- Main access to Central Loading Dock and concessions deliveries

Previous Airport Seismic Improvements

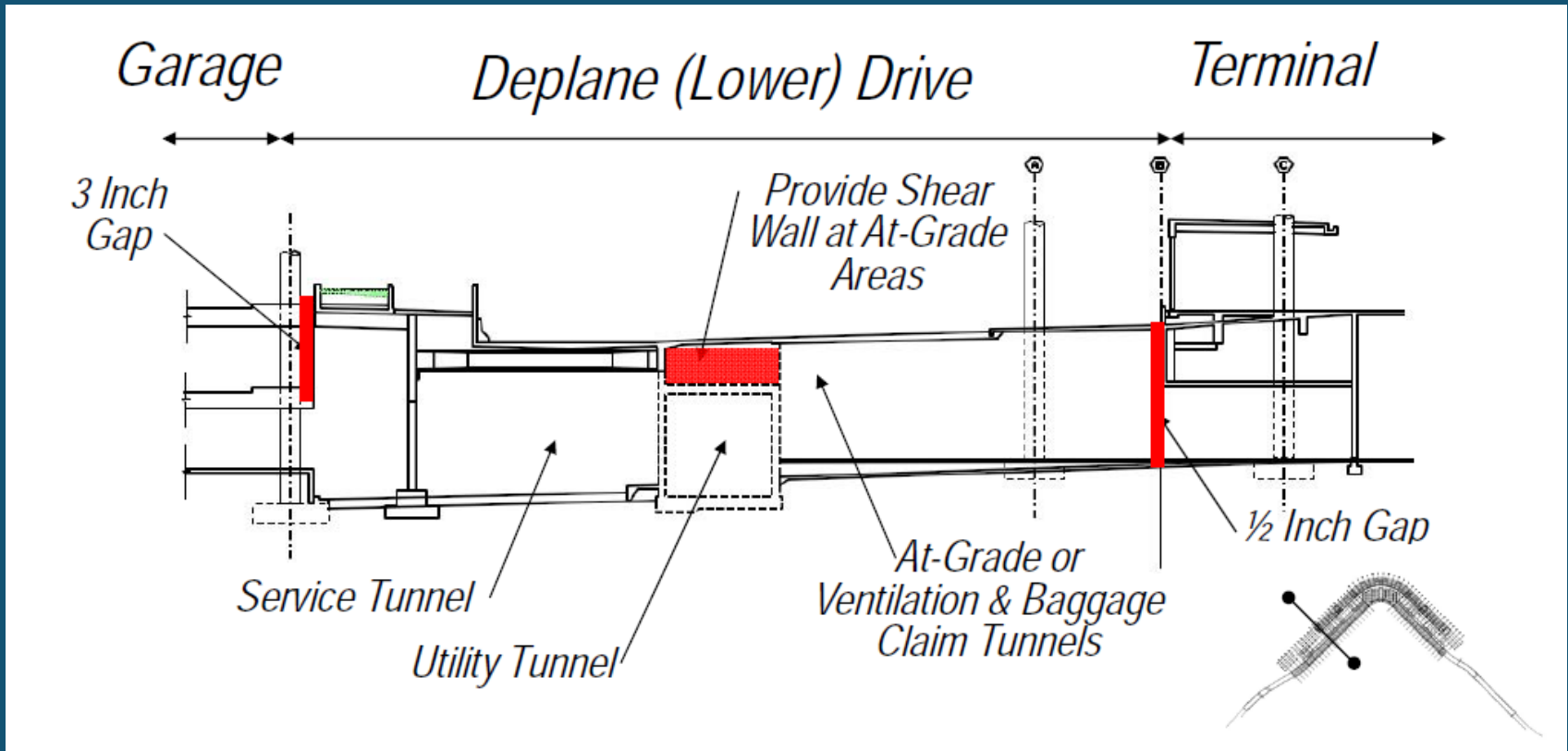
Logical and necessary parts of the Airport seismic program since this is one of the last and oldest parts of the Airport.

Airport Seismic Improvements	Year
Airport Roads and Bridges	2001
Main Terminal – Ticketing	1999
Main Terminal – Baggage Claim	1998
Ground Access Seismic	1997
Main Garage	1990

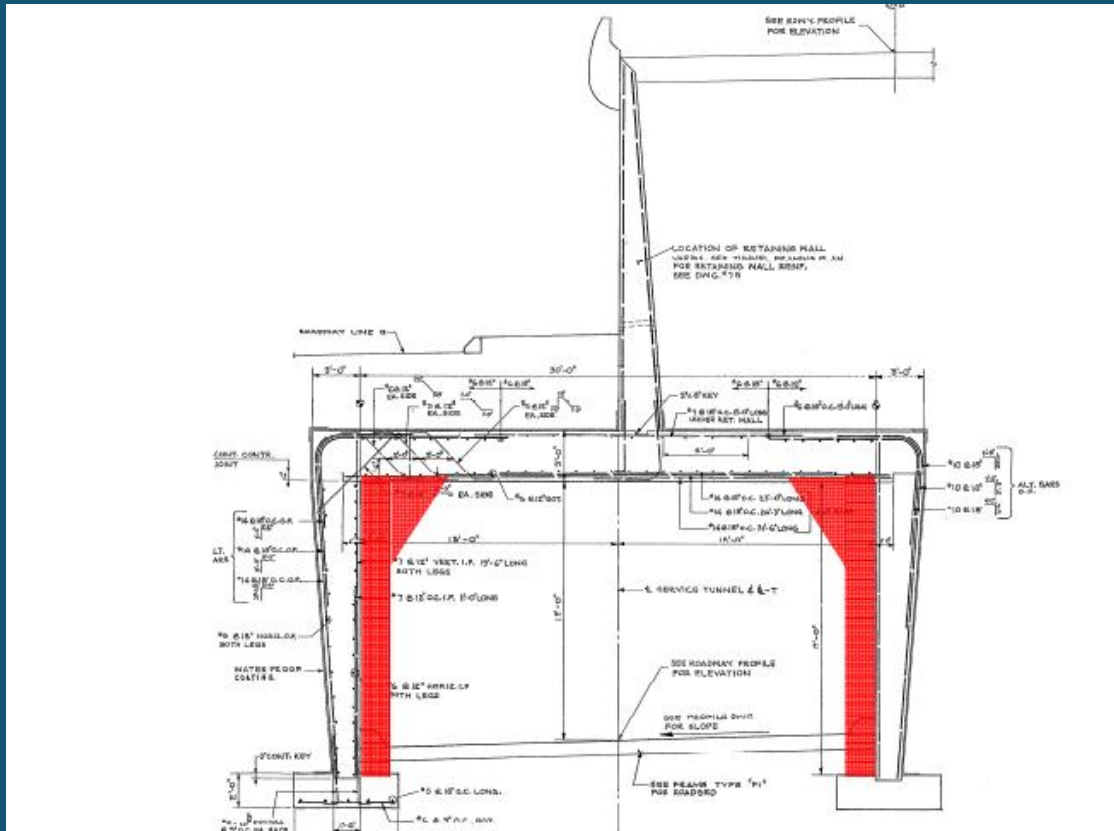
Service Tunnel Layout



Proposed Service Drive Section



Proposed Cast Tunnel Section



North Cast-in-Place Tunnel

- Support both Arrivals and Departures drives
- Upgrades to structure would require improvements to carrying capacity and shear resistance.
- Suggested improvements include structural reinforcement to enhance seismic performance.

Project Delivery Strategy

- Delivery Methodology: Design-Build
- Benefits:
 - Early Start
 - Staging flexibility
 - Schedule
 - Promotes innovative solutions from the D-B team
- Design: May 2014 – 1st QTR 2015
- Construction: 2nd QTR 2015 – 4th QTR 2018
- Budget: \$27.6M

