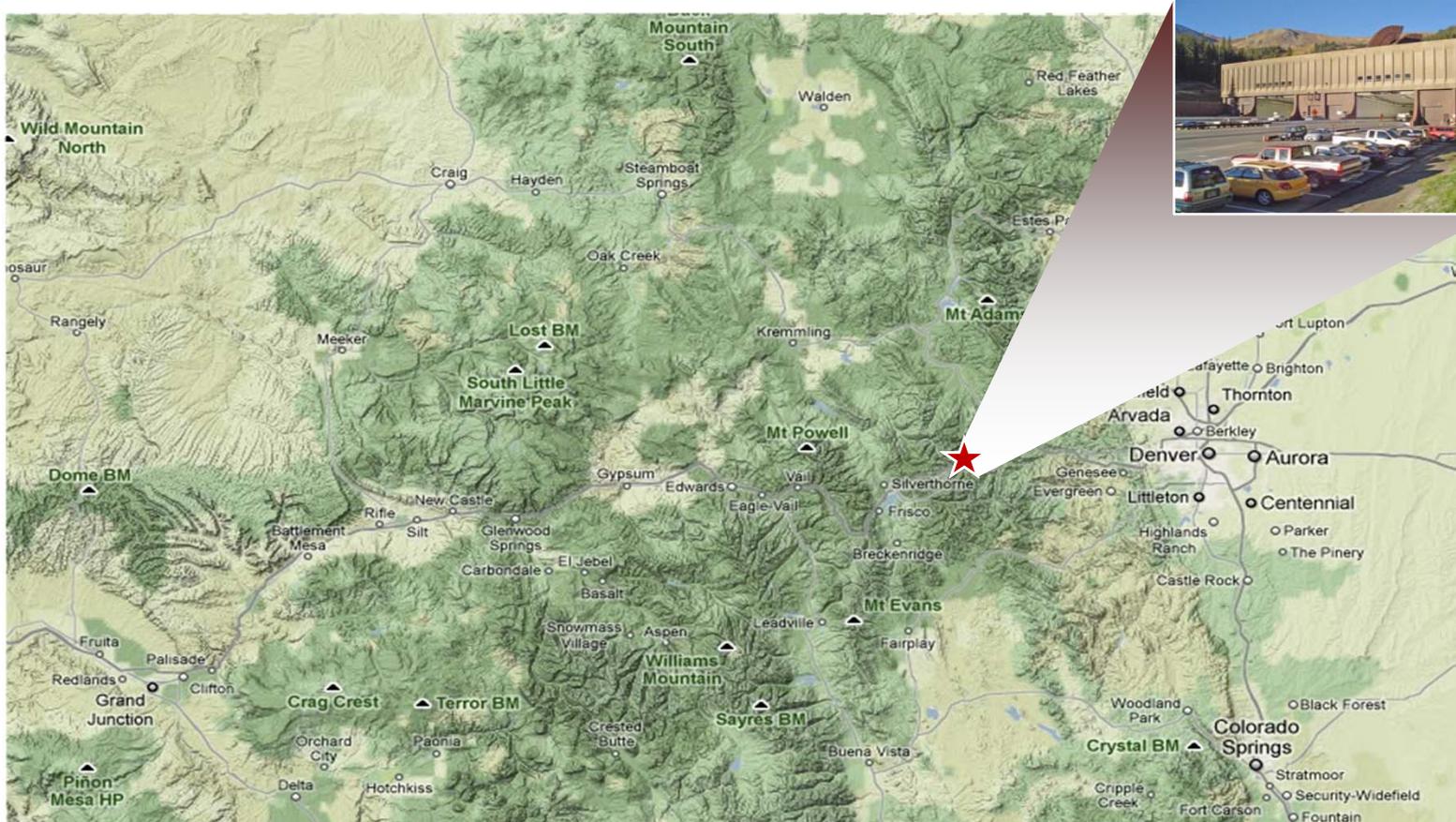




# Eisenhower/Johnson Memorial Tunnel Fixed Fire Suppression System

Project Information Meeting  
August 21, 2013

# Project Location

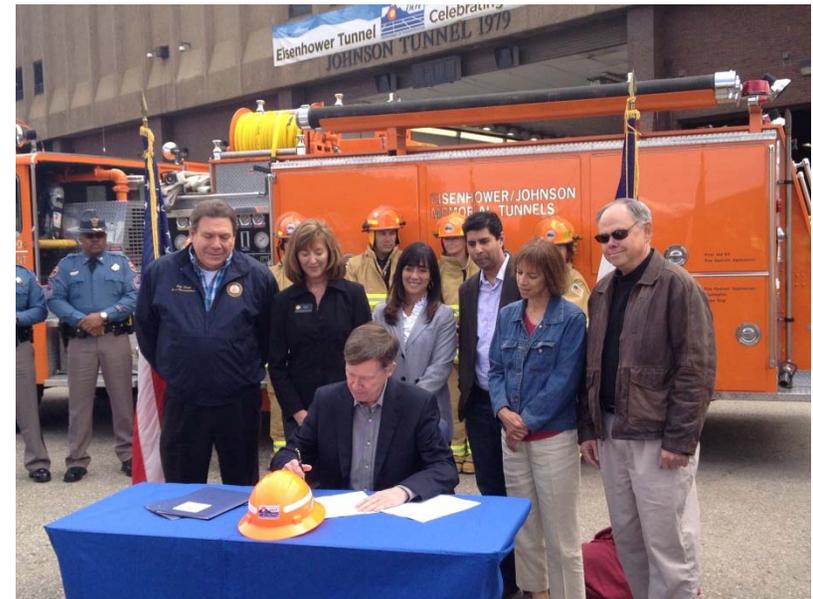


Taking care to get you there

# Project Partners/Stakeholders



- CDOT
- FHWA
- Colorado Department of Labor and Employment



U.S. Department  
of Transportation  
**Federal Highway  
Administration**



Taking care to get you there



# Project Management Team



CDOT

Resident Engineer – Stephen Harelson

Project Manager – Raelene Shelly

FHWA

Parsons (Preliminary Design and Procurement Document Support)



Taking care to get you there

# Project Overview



Retrofit the Eisenhower/Johnson Memorial Tunnel (EJMT) with a Fixed Fire Suppression System (FFSS)

First project of its kind in the world!

# Project Goals



- Provide a system with the greatest flexibility in suppressing different fires
- Maintain compatibility with existing tunnel operations and minimize complications with future maintenance
- Maximize safety of workers and traveling public
- Minimize project delivery time



- 2-3 automobile fires per year inside tunnel
- 16 fires in previous 3 years adjacent to tunnel
  - 2010: 2 fires
  - 2011: 6 fires
  - 2012: 8 fires
- 9 significant fires inside/adjacent to the tunnel since 1978



# Project Need



# Project Need



- Emergency Response by EJMT Staff
  - Trained firefighting capability
  - Operate tunnel-based fire and rescue trucks
  - 3 dedicated vehicles
  - 3 to 5 firefighters on-hand at all times
- Primary duties of EJMT Staff
  - Tunnel control
  - Ongoing maintenance
- Average Response Time
  - 8 minutes





# Project Challenges

- Tunnel Elevation: 11,112 ft
  - The new system shall be compatible with the climatic factors present at the EJMT
- Tunnel Traffic: 30,000 VPD (approx. 11 million/year)
  - Construction cannot impact the peak period traffic capacity (per Region 1 Lane Closure Strategy)
  - Project Traffic Control will be managed by EJMT staff
- Tunnel Climate
  - Freezing temperatures most of the year
  - Average annual snowfall is 420 inches (35 feet)

# Project Challenges



- U.S. Forest Service
  - Conformance with easement documents
- Drainage Water Quality
  - Cannot contaminate nearby creek
- Meet Buy America Requirements
- Two Types of Fires of Concern
  - Heavy Goods Vehicle (HGV) fires
  - Flammable Liquid fires



# Key Components/Work Elements



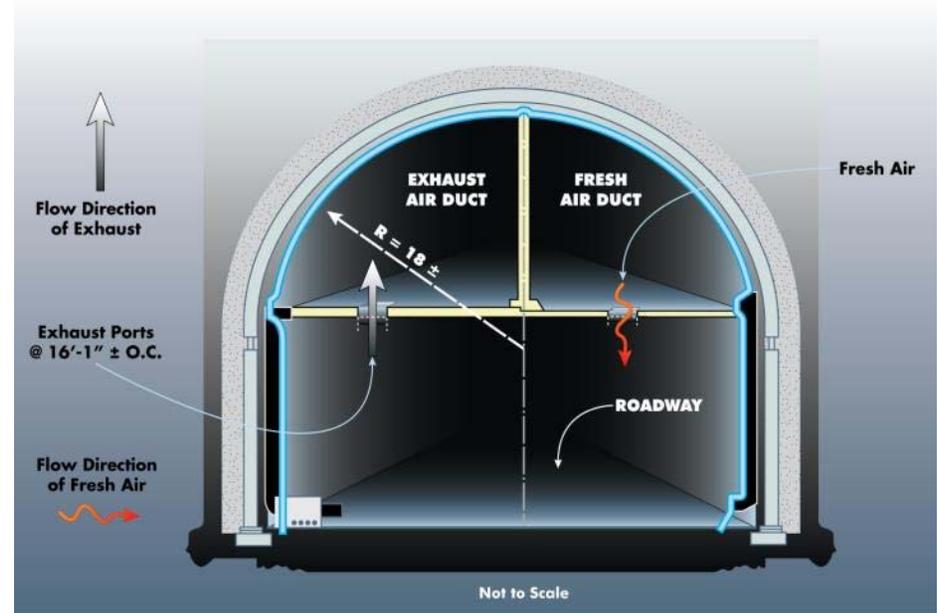
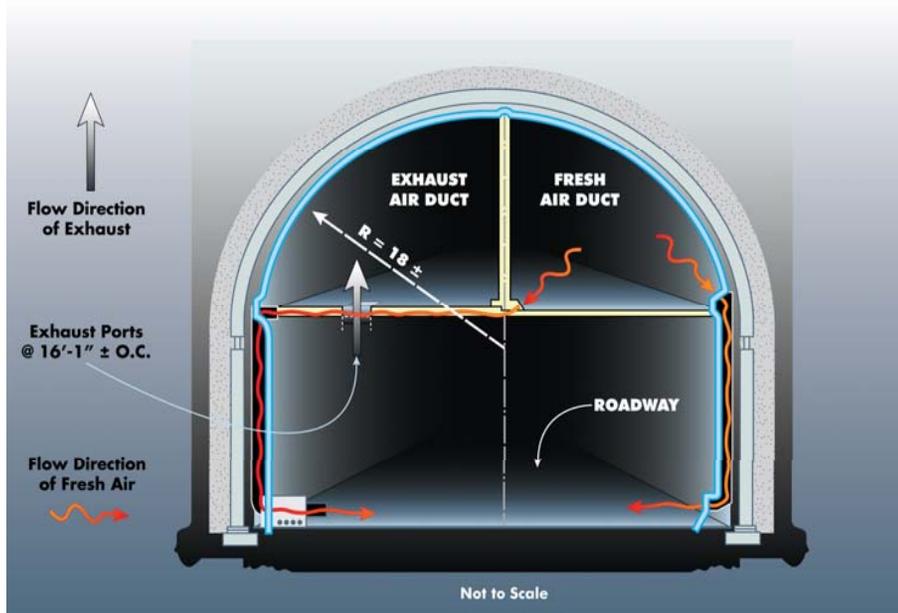
- Tunnel
  - Fire detection system
  - Waterlines through tunnel
  - Suppression system
  - Collection/Drainage system
- Surrounding Area
  - Drainage/Filtration tank
  - Clean existing tank
  - Backup generator
  - Compatibility with operations and future projects
  - Optional: Extra storage tank





## Eisenhower Tunnel

## Johnson Tunnel



# Design Build Contract Elements



- Design Services
  - Design FFSS meeting all requirements
  - Review by CDOT for completeness
- Construction Services
  - Construction of all required project elements
  - Quality Control/Quality Assurance
- Post Construction Services
  - Warranty/Maintenance
- Owner Controlled Insurance Plan (OCIP)
  - Currently undecided, may implement
  - Decision will be made in RFP phase

**Design Build Contractor shall be responsible for meeting all Federal, State, and Local requirements.<sup>14</sup>**

# Procurement Preparation Status



- Preparing conceptual design plans and construction phasing
- Obtaining NEPA clearance for the project
- Geometric grid data provided for input to a computational fluid dynamics model
- Obtaining data, reports, and other historical information



# DBE Participation Program



- A Disadvantaged Business Enterprise Goal will be established for this project following short listing
- A DBE plan will be a requirement within RFQ
- Specific requirements of the DBE program will be provided in the RFP and Contract

# Required Prequalifications & Certifications



- Prequalification Application for Consultants
  - CDOT Form 1058
  - [www.coloradodot.info/business/consultants/submitting-a-bid/prequalification-form.url](http://www.coloradodot.info/business/consultants/submitting-a-bid/prequalification-form.url)
- Prequalification Application for Contractors
  - CDOT Form 66
  - [www.coloradodot.info/business/bidding/Prequal%20Form/view](http://www.coloradodot.info/business/bidding/Prequal%20Form/view)
- Certification with the Division of Fire Protection & Control
  - <http://dfs.state.co.us/Suppression.htm>

# Design Build Procurement Process



- Request for Qualifications (RFQ):
  - Provided to teams responding to CDOT's request for Letters of Interest (LOI)
  - Short listing of teams
  - Ex parte Communications
    - Commencing with the issuance of the RFQ, contact will be limited to the CDOT Project Manager, Raelene Shelly, and all inquiries and comments pertaining to the Project must be submitted via email to: [dot\\_eisenhowerfiresystem@state.co.us](mailto:dot_eisenhowerfiresystem@state.co.us)

# Design Build Procurement Process



- Request for Proposals (RFP):
  - Provided to short listed teams only
  - RFP Industry Review Meetings
  - Conformed RFP/1-on-1 Confidential Meetings
    - Alternative Configuration Concept (ACC) Process
    - Alternative Technical Concept (ATC) Process
  - Award based upon Best Value Criteria
    - Technical Proposal
    - Cost Proposal
    - Formula based selection
  - Stipend for non-selected team proposals meeting RFP requirements

# Design Build Schedule



Letters of Interest Due Date	September 12, 2013
Issue Request for Qualifications	September 19, 2013
Mandatory Tunnel Visit (Choose One)	October 2/October 30, 2013
Deadline for Industry Inquiries to RFQ	November 8, 2013
CDOT Response to Industry Inquiries	November 15, 2013
Deadline for Statements of Qualifications	November 19, 2013
Notification of Short Listed Teams	December 9, 2013

# Design Build Schedule



Issue Draft Request for Proposals	December 16, 2013
Issue Final Request for Proposals	February 21, 2014
Proposal Submission Deadline	April 4, 2014
Selection of Best Value	May 9, 2014
Contract Award	June 13, 2014
Anticipated Notice to Proceed	July 25, 2014
Project Complete	Late Fall 2016

# Post RFQ Communication Protocol



- EJMT FFSS Design Build Project single point of contact:

Raelene Shelly

EJMT FFSS Design-Build Project, Project Manager

CDOT Region 1

425A Corporate Circle

Golden, CO 80401

- Project Email Account:

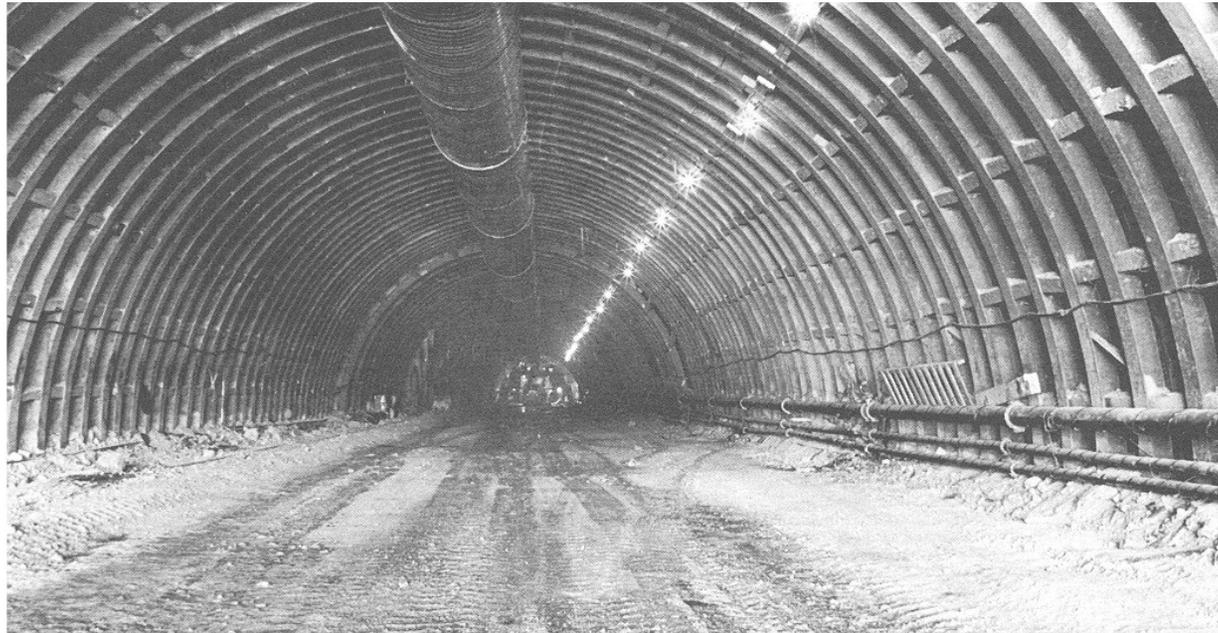
[dot\\_eisenhowerfiresystem@state.co.us](mailto:dot_eisenhowerfiresystem@state.co.us)

*Only written inquiries, submitted to Project Email Account, will be accepted and responded to.*

# Additional Project Information



<http://www.coloradodot.info/projects/Eisenhowerfiresystem>





Questions?

Project Information Meeting

August 21, 2013