



COLORADO

Department of Transportation

I-70 Floyd Hill to Veterans Memorial Tunnels Collaborative Effort Update 9/28/2022



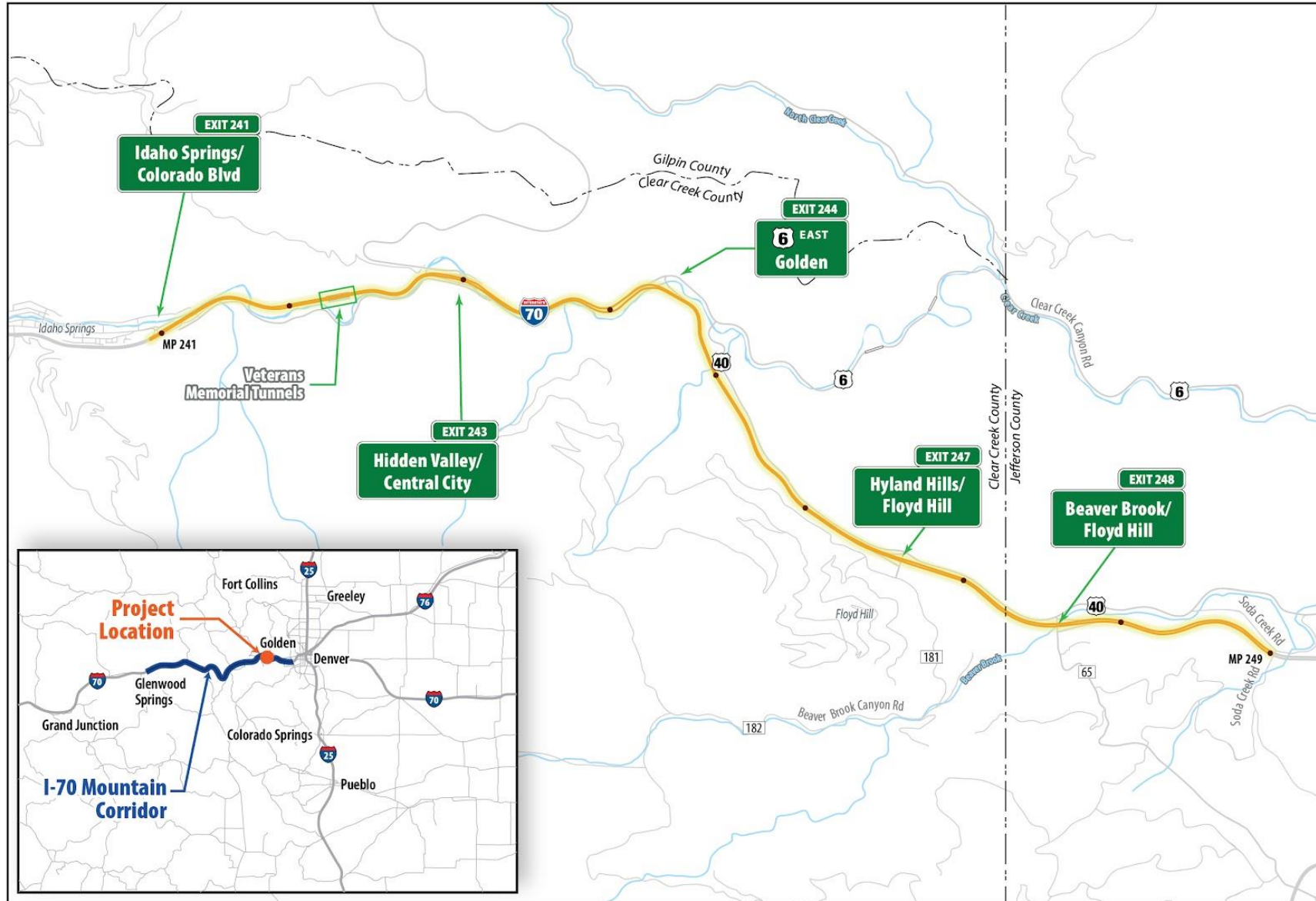
Agenda

1. Project Location & History
2. Early Project Update
3. Schedule Update
4. Refinements to the Preferred Alternative
5. Funding Update
6. Questions Comments





Project Location





Project Development History



I-70 Mountain Corridor Programmatic EIS* and ROD* (2011)

The ROD outlines the following improvements specific to the Floyd Hill area:

- Six-lane component from Floyd Hill through the Veterans Memorial Tunnels including a bike trail and frontage roads from Idaho Springs to Hidden Valley and Hidden Valley to US 6

Westbound I-70 Concept Development Process (2017)

Three roadway concepts were recommended for further investigation through the Concept Development Process:

- Off Alignment (new alignment north of existing I-70)
- North Alignment (shift I-70 north of existing alignment)
- South Alignment (shift I-70 south of existing alignment)

Additionally, multiple interchange access concepts were recommended for further consideration.

Floyd Hill Environmental Assessment (EA) (2021)

The Concept Development Process provided a foundation for CDOT and stakeholders to develop design options for each of the specific Project elements. After a thorough evaluation of these concepts, two Project Alternatives, along with a No Action Alternative, were advanced and evaluated in the EA:

- Canyon Viaduct Alternative
- Tunnel Alternative

EA was signed in July 2021

Construction Begins on Early Projects (2022) Construction Begins on Floyd Hill Reconstruction (2023)

After the public comment period and an exhaustive Construction Manager/General Contractor (CMGC) process, the Canyon Viaduct Alternative was selected as the Preferred Alternative for the Corridor.

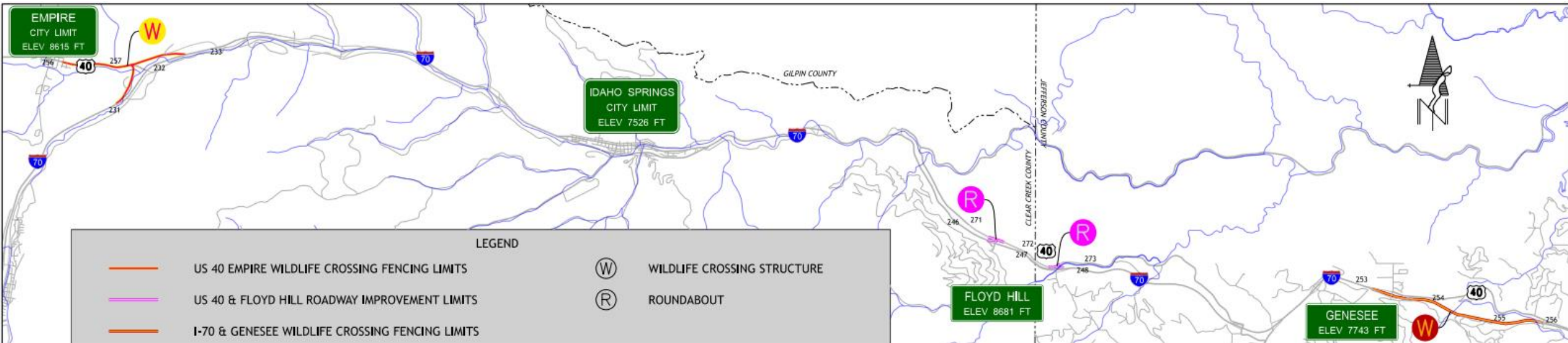
CDOT is moving forward with Early Projects that were identified in the EA prior to construction of the main Floyd Hill project. These Early Project will break ground in Oct. 2022.

Construction of the main Floyd Hill project will begin in spring 2022.



Early Projects Overview

Several Early Projects were identified during the Floyd Hill Environmental Assessment process that could be advanced prior to the main Floyd Hill project.





US 40 & Floyd Hill Roundabouts

Construct new roundabout intersections at US 40 & County Road 65 (westbound I-70 Exit 248) and US 40 & Homestead Road (eastbound I-70 Exit 247).

Benefits of the project include:

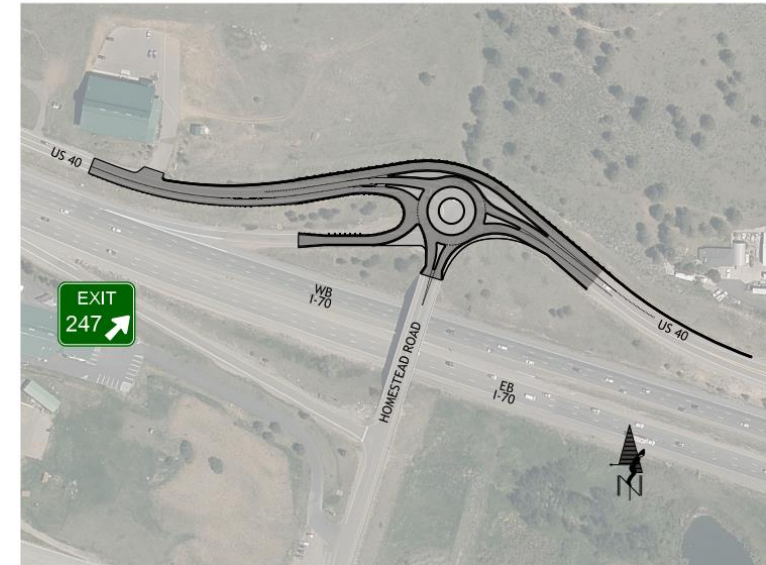
- Improved intersection operations and safety
- Westbound US 40 bypass lane reduces conflict points and eases intersection congestion
- Improved bicycle safety at intersections through bicycle specific signing, lower vehicle speeds, and the ability for cyclists to use the full lane.

Construction Schedule: Fall 2022 to Fall 2023

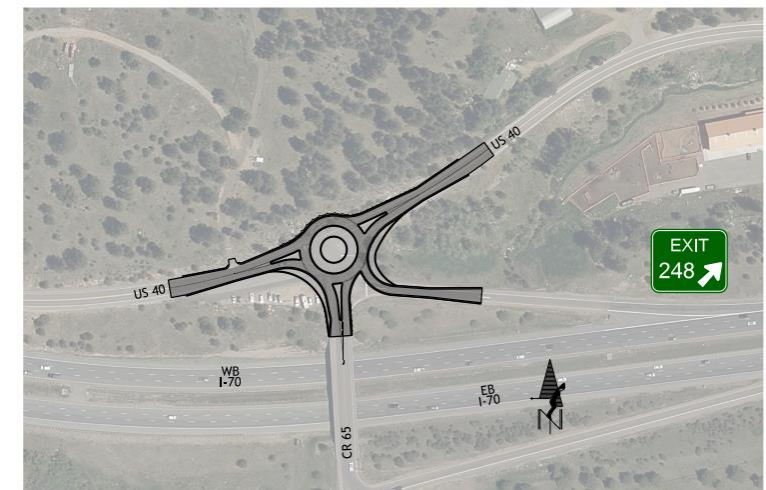
Project Cost: \$9M

Contractor: American Civil Constructors (Apparent Low Bidder)

US 40 & HOMESTEAD ROAD ROUNDABOUT



US 40 & COUNTY ROAD 65 ROUNDABOUT





US 40/CR 65 and US 40/Homestead Roundabouts



CR 65 Roundabout



I-70 & Genesee Wildlife Crossing

Construct a wildlife underpass at approximately I-70 Mile Point 254.5 which is in between the exits for Lookout Mountain and Genesee. This area has been identified as a hotspot for wildlife-vehicle collisions (WVC) and has the highest number of WVCs on I-70 east of the Eisenhower Johnson Memorial Tunnel. Wildlife fencing will be placed along both sides of I-70 (north and south) and extend from the I-70 and Genesee Exit (Exit 254) to the I-70 and Lookout Mountain Exit (Exit 256).

Construction Schedule: Fall 2022 to Early 2024

Project Cost: \$10M

Contractor: Lawrence Construction (Apparent Low Bidder)



Wildlife Crossing Underpass just east of the Genesee Park Exit

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US 40 Empire Wildlife Crossing

Construct a wildlife overpass on US 40 at approximately Mile Point 257 which is near the I-70 and US 40 Empire Interchange (I-70 Exit 232). The wildlife overpass will allow safe connectivity for the largest bighorn sheep herd in the state of Colorado as well as reducing wildlife-vehicle collisions. Wildlife fencing will be placed along both sides of US 40 (north and south) and extend to the town of Empire and south on County Road 257. This project also plans to apply rockfall mitigation designs and fencing adjacent to the wildlife crossing structure.

Construction Schedule: Summer 2023 to Fall 2024

Project Cost: Estimated \$7M

Contractor: TBD



Wildlife Crossing - US 40 Empire





I-70 Floyd Hill to Veterans Memorial Tunnels Preferred Alternative

Project features include:

- A third travel lane will be constructed on westbound I-70 from the top of Floyd Hill to the Mountain Express Lane
- Westbound and eastbound I-70 curve flattening and safety improvements will achieve a 55 MPH design
- Over three miles of Greenway Trail improvements including reconstructing the trail
- A new frontage road between Central City Parkway and US 6 interchanges
- Wildlife safety mitigation improvements, including wildlife crossings and fencing
- Eastbound I-70 climbing lane for heavy commercial or slow-moving vehicles from the bottom of Floyd Hill to the Homestead exit at the top of Floyd Hill.

Cost: \$700 million

Location: On westbound Interstate 70 from east of the Floyd Hill/Beaver Brook Exit (248) through the Veterans Memorial Tunnels to Colorado Blvd./Idaho Springs Exit (241)

Contractor: TBD*



*Kraemer North America was selected as the Construction Manager for Floyd Hill as part of the CMGC process



I-70 Floyd Hill Packages Schedule Status

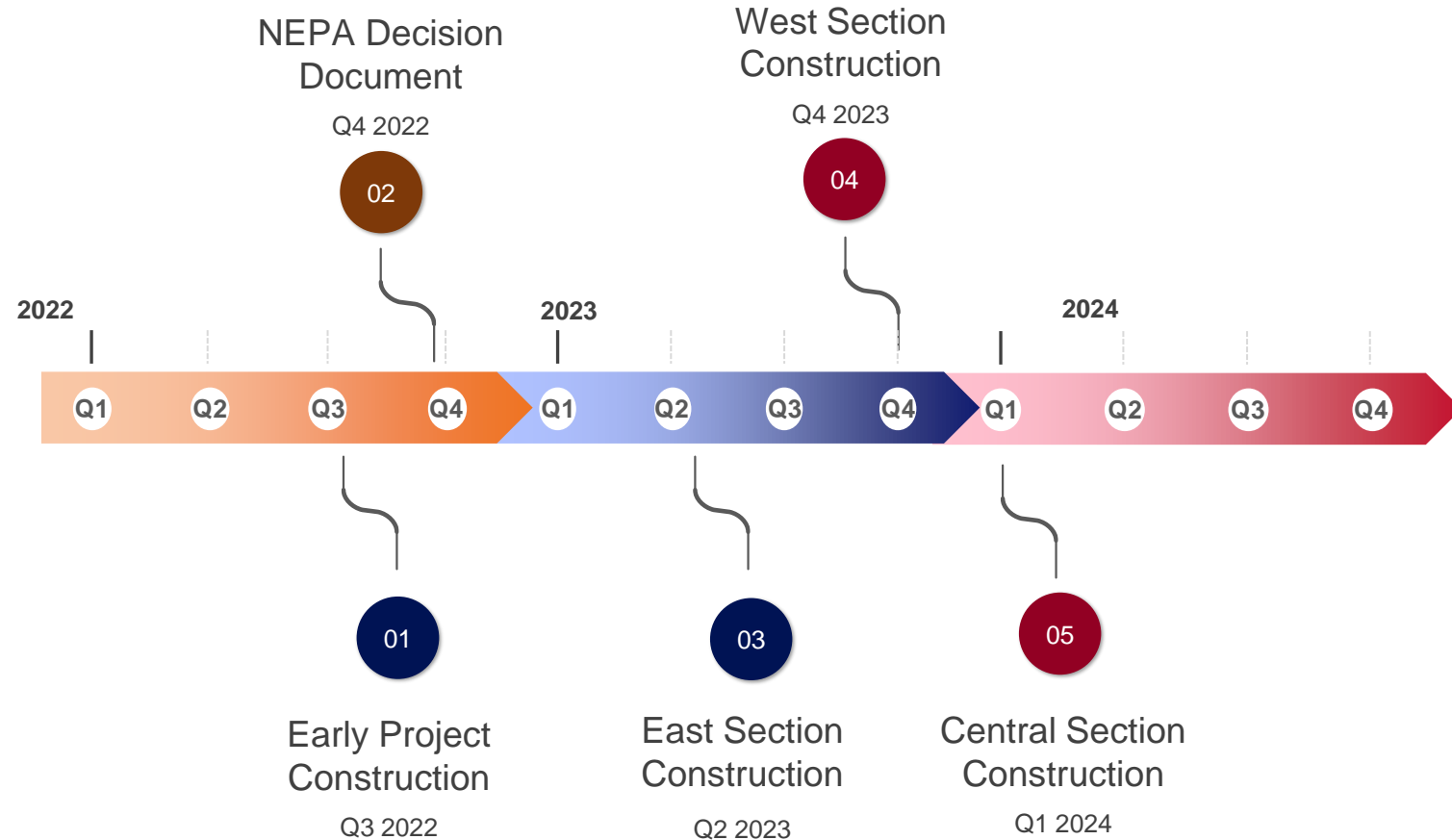
Package 1 East Section

Package 2 West Section

Package 3 Central Section

Estimated Construction Start Dates

- Package 1 NTP Spring 2023
- Package 2 NTP Fall 2023
- Package 3 NTP Early 2024



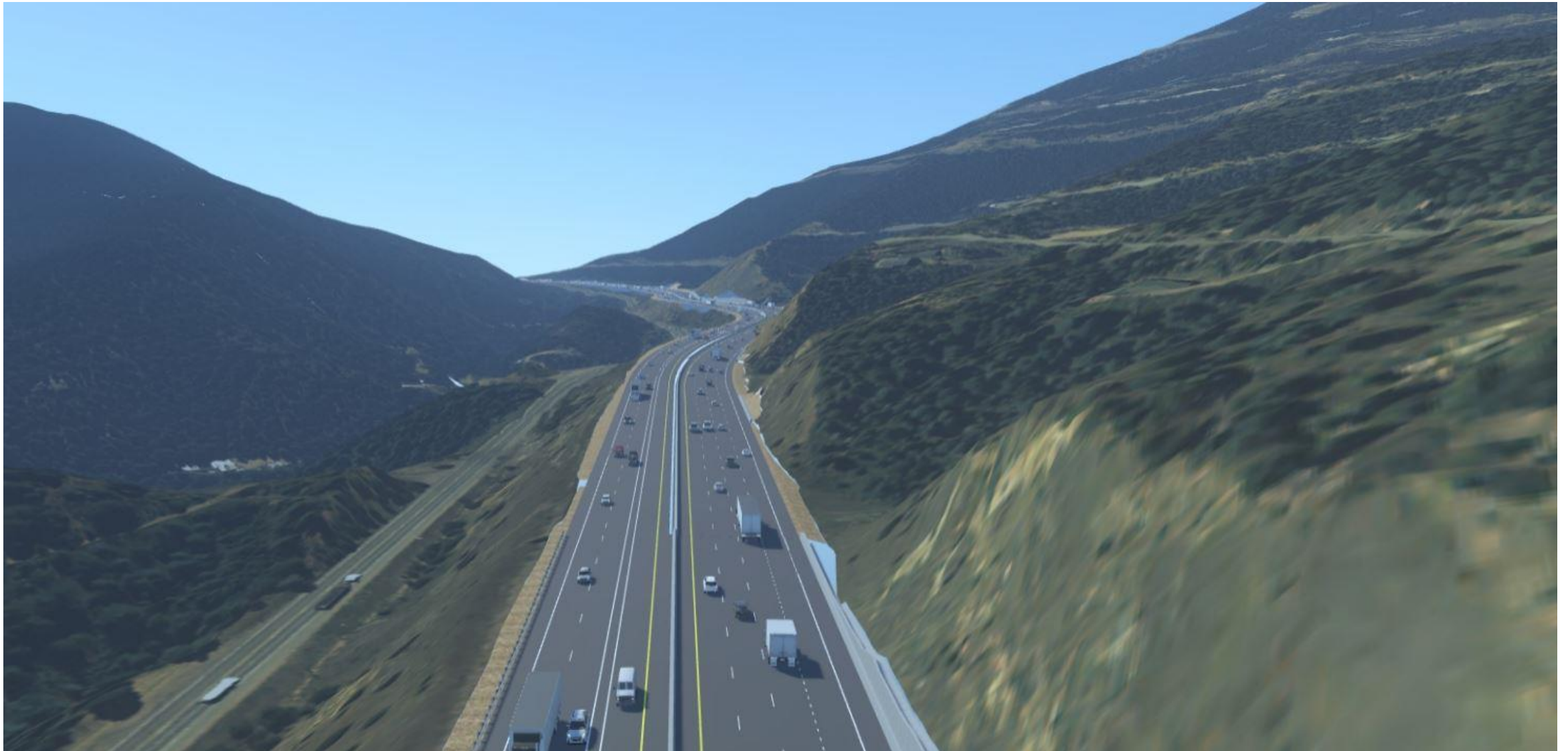


Current condition of the bottom of Floyd Hill looking east





EA Preferred Alternative bottom of Floyd Hill looking east





Refined PA at the bottom of Floyd Hill looking east





Current condition of the bottom of Floyd Hill looking west





EA Preferred Alternative bottom of Floyd Hill looking West





Refined PA at the bottom of Floyd Hill looking west





Current condition of the bottom of Floyd Hill looking west





EA Preferred Alternative bottom of Floyd Hill looking west





Refined EA at the bottom of Floyd Hill looking west





Existing condition of Sawmill Gulch





EA Preferred Alternative at Sawmill Gulch





Refined PA improvements of Sawmill Gulch





Existing condition near the Veterans Memorial Tunnels





EA Preferred Alternative near the Veterans Memorial Tunnels





Refined PA near the Veterans Memorial Tunnels



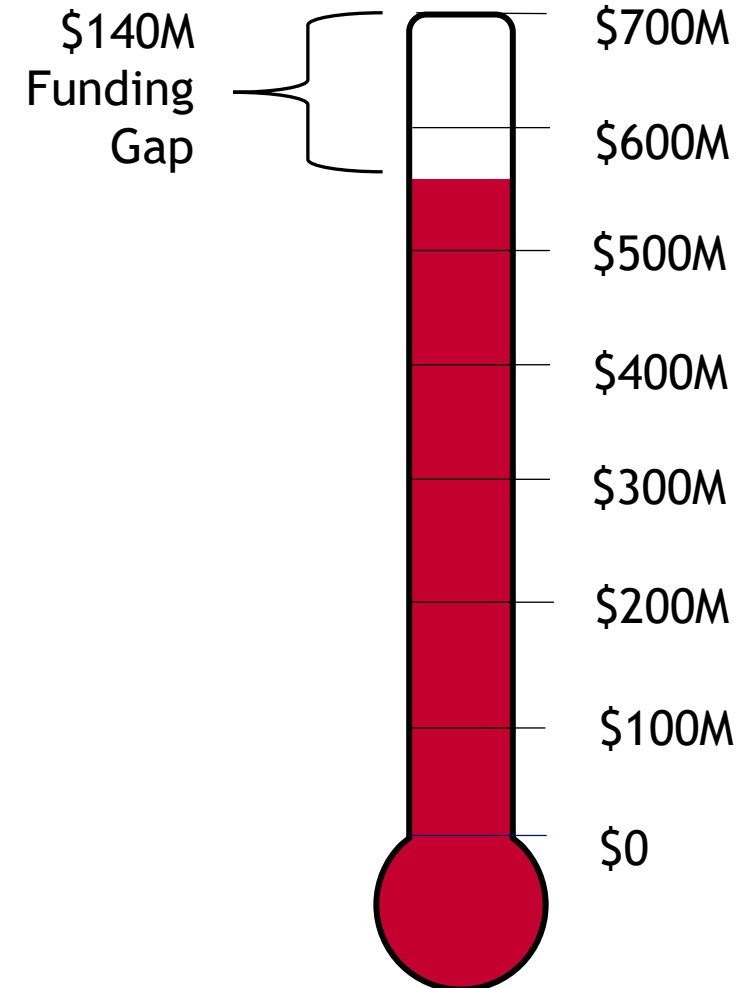


Funding Status

Project Funding Summary (\$ in Millions)

Source	Contributions
Senate Bill (SB) 267 - Year 3	\$135.0
BTE and CTIO Financing (Estimated)	\$325.0
INFRA Grant	\$100.0
Total Funding	\$560.0

On Sept. 9, 2022, the Floyd Hill Project was awarded \$100,000,000 Nationally Significant Multimodal Freight and Highway Projects grant program (INFRA) award. This federal program offers competitive grant opportunities for projects that improve safety, increase efficiency, and offer an opportunity to generate economic growth.





Questions and Comments?







Advanced Guideway System

