



COLORADO
Department of Transportation

I-70 West Vail Pass Safety and Operations Improvements



I-70 VAIL PASS SAFETY AND OPERATIONS IMTPR 1/20/2022



AGENDA

1. Project Background and Scope
2. Project Status
3. Project Budget and Estimate
4. Value Engineering and Scope Refinement
5. Funding Update



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Project Background

In June 2020, CDOT was awarded a \$60.7M INFRA grant for the first phase of the project to improve safety and traffic operations:

- MP 185 – 190 EB I-70 auxiliary lane
- MP 186 and 188 curve reconstruction
- MP 185.3 EB and WB bridge replacement (WB added in Sept. 2021)
- MP 182 Truck ramp reconstruction
- Six wildlife underpasses and fencing
- MP 185-187 Two miles of Vail Pass recreational trail relocation

**40% Reduction in crashes
where completing improvements**



**#1 Highest on I-70
in Colorado**
Crashes/Million vehicle
miles travelled in the
State (based on data
from 2010-2014)



306

TOTAL HOURS OF FULL
CLOSURE DUE TO
INCIDENTS 2014-2017



PROJECT STATUS

Construction Package	Delivery Method	Status
CP 1	CMGC	Construction Completed
CP 2	CMGC	Construction Completed
CP 3	CMGC	Construction started in August 2022. Completion date of June 2024.
CP 4	DBB	Advertisement planned March 9, 2023. Completion date October 2025.
CP 5	CMGC	CAP Planned for Fall 2023. Completion date of October 2025.



TOTAL PROJECT FUNDING

Funding Source	Current Total Project Funding	Comments
267	\$ 1,475,781	
BTE	\$ 93,400,000	
INFRA (MISC)	\$ 60,700,000	
Freight	\$ 19,400,000	
SB 1	\$ 31,696,766	
RPP	\$ 7,691,392	Added \$2.23M in FY25, Added \$3.44M in FY 26
ITS	\$ 6,400,000	
Resurfacing	\$ 5,000,000	
FASTER	\$ 4,000,000	Added \$4M FASTER
CWP (Wall)	\$ 50,000	
10 yr plan funding	\$ 17,000,000	Advanced FY 27+ period 10 year plan funds to FY 23-26 period
HSIP	\$ 3,767,500	
Culvert	\$ 25,000	
	\$ 250,581,439	



VALUE ENGINEERING AND SCOPE REFINEMENT

Innovations	# of Innovations	Potential Savings
Approved	57	\$55,239,237

Value Engineering Highlights

- Reduced export/import by modifying wall design from MSE to SMSE
- Generating on-site riprap from rock excavation
- Partnership with the Forest Service for tree seedlings for landscaping
- Identified nearby locations for disposal of excess excavation
 - Vail Pass Rest Area embankment (35,000 CY) – win/win for CDOT, saves Rest Area project cost of importing material
 - East Vail Berm (13,000 CY)
 - Truck parking embankment (36,000 CY)



REGION 3 10-YEAR PLAN

	Project Type	Total Est. Project Cost	Total Strategic Funding	Other Funding	Funded FY 19-22	Funded FY 23-26	Planned FY 27+	Project Status	Planning Project ID
Highway & Transit– Region 3									
Interstate 70	I-70 Auxiliary Lane Frisco East to Silverthorne	\$25 M	\$25 M		\$25 M			◆	0043
	I-70 West: Vail Pass Safety Improvements - Phase 1	\$140 M	\$33.5 M	✓	\$33.5 M			◆	0042
	Summit County Transit Operations Center (Design & Engineering)	\$0.531 M	\$0.425 M	✓	\$0.425 M				
	I-70B East of 1st Street to 15th Street - Phase 5	\$16 M	\$16 M		\$16 M				
	North Avenue Transit Infrastructure Improvements	\$1.5 M	\$1.5 M		\$1.5 M				
	Grand Junction Mobility Hub	TBD	\$4.08 M	✓	\$4.08 M				2747
	I-70 and CO 9 (Exit 203) Interchange Improvements	\$44 M	\$44 M			\$25 M	\$19 M		1157
	I-70 West Vail Pass Auxiliary Lanes	\$50 M	\$50 M				\$50 M		1161
	Vail Intermodal Site	\$15 M	\$6.4 M			\$6.4 M			
	I-70 Interchange Improvements in Garfield County	\$15 M	\$15 M	✓		\$10.68 M	\$4.325 M		
	I-70 West: Dowd Canyon Safety and Capacity Improvements	\$14 M	\$14 M				\$14 M		
	I-70 Glenwood Canyon Critical Asset Repair	\$50 M	\$50 M				\$50 M		1151
	I-70 Business (Pitkin Avenue) Corridor Improvements between First Street and 15th Street	\$40 M	\$39.19 M	✓	\$8.11 M	\$31.08 M			2568
	I-70 Business Corridor Improvements between 32 Road and I-70 in Grand Junction	\$5 M	\$5 M				\$5 M		2569
	I-70 Business Corridor Improvements between Main Street and 32 Road	\$14 M	\$14 M				\$14 M		2570

Amend to move \$17M to FY 23-26

FY 27+ would reduce to \$33M