

Colorado Department of Transportation

– Transportation Legislation Review Committee–

October 8, 2013



Flood Recovery

Historic Rainfall/Damage

- Adams County – over 15 inches (*annual Avg. 14.85 inches*)
- Boulder County – over 18 inches (*annual Avg. 19.30 inches*)
- El Paso County – over 11 inches (*annual Avg. 21.09 inches*)
- Larimer County – over 12 inches (*annual Avg. 16.98 inches*)
- Washed out roads severed multiple cities from the rest of the state

Immediate Goals

- Restore access by December 1, 2013
- Temporary repairs to restore mobility
- Reconnect communities

Long Term Recovery

- Total costs estimated at over \$400M (includes state system only)
- Local road costs currently undetermined



State Highway 257 near Johnstown



U.S. Highway 34 near Drake



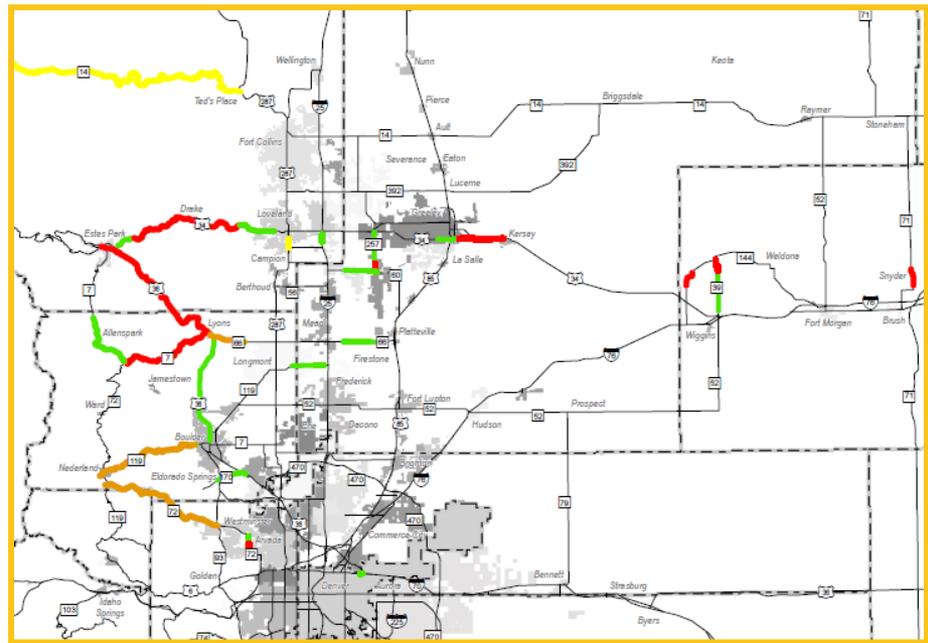
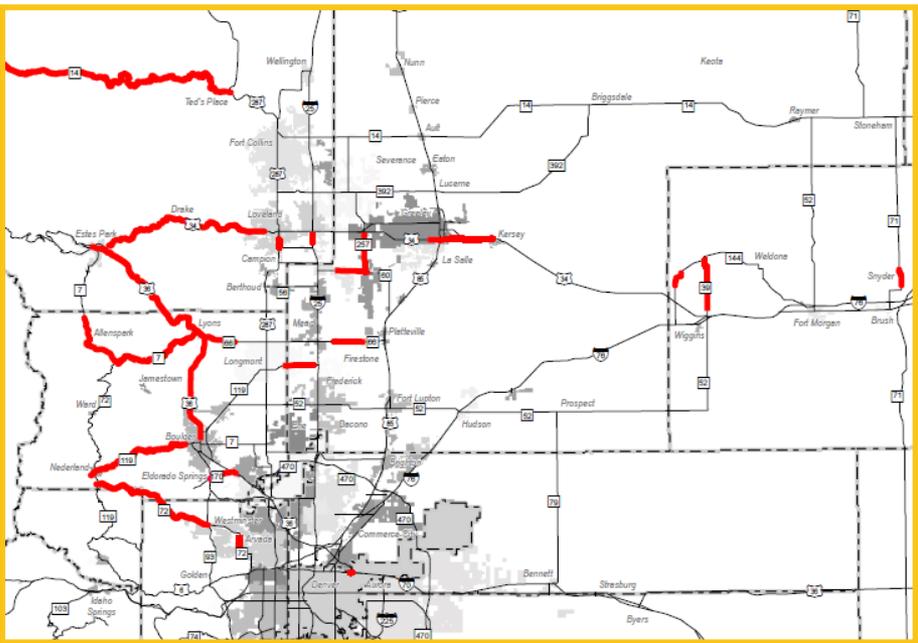
National Guard at U.S. 36

Flood Recovery



September 17, 2013

As of October 3rd, 2013



STATE HIGHWAY CLOSURES

- Closed to all traffic
- Closed - Emergency Only
- Closed - Local Access Only
- Open with Restrictions
- Open to All
- No Reported Damage - Expect Normal Travel

67% of closures (18 of 27) reopened as of October 4, 2013.

Flood Recovery

Cumulative Transportation Damage

Impacts

- **Estimated Costs** – over \$400 million estimated in total state highway damage (excludes local roads)
- **State Highways** – approximately 200 lane miles of state highways closed, damaged, or destroyed
- **Local Roads** – unknown total damage to county and city roads
- **Bridges** – 102 bridges damaged and requiring repair
- **Culverts** – multiple clogged, damaged, or destroyed culverts
- **Debris** – substantial debris on highway surfaces, structures, and culverts, requiring clearing operations
- **CDOT/CSP Buildings** – CDOT facility, equipment, materials damage:
 - CDOT/State Patrol shared Evans facility (to be demolished)
 - Drake facility (possible equipment destroyed, shed lost, sand/materials lost)
 - Crook facility (sand/materials lost)



State Highway 72



State Highway 119



U.S. Highway 34 – Big Thompson Canyon

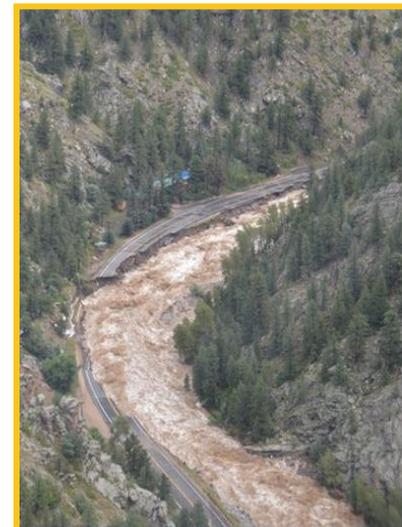


Flood Recovery

Infrastructure Recovery Force

IR Force

- **Tasks –**
 - Rebuilding Colorado's infrastructure with speed and efficiency
 - Make long term improvements to our transportation system
 - Provide coordination and assistance to local governments in reestablishing critical links to local roads, bridges, water, sewer, power, and communications
- **Staffing –**
 - CDOT employees on reassignment from regular duties
 - Led by CDOT Deputy Director Scot Cuthbertson and CDOT Region 4 Director Johnny Olson
- **Goals –**
 - ***Response (September through Winter 2013)*** – debris removal, temporary road building, portable bridges, conducted by CDOT staff, emergency contractors, Colorado National Guard
 - ***Recovery (Spring 2014 and forward)*** – infrastructure construction



U.S. Highway 34
Big Thompson Canyon

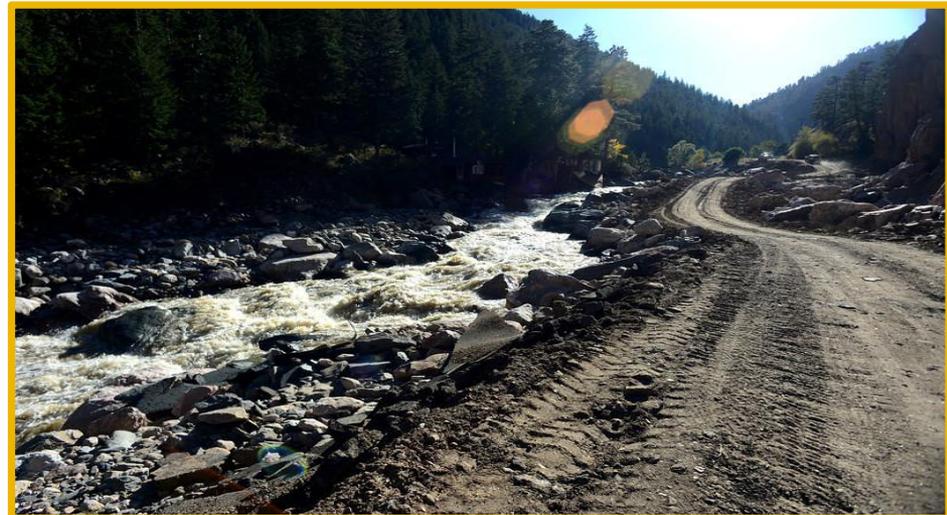
Flood Recovery

Big Thompson Canyon – U.S. 34

- **Status** – Active Construction-Day Light Operations 7 Days/Week
- **Percentage Complete** – 4%
- **Projected Road Opening Date** – December 1, 2013
- **Project Updates** –
 - Active Project Days to Date: 9 Days
 - CDOT Construction Management Staff Currently On-site: 15
 - CDOT Construction Management Man-Hours To Date: 941 MH
- **Major Events** –
 - Damage assessments continue
 - The staff bridge inspection team accessed structure C-15-Y (bridge at North Fork Big Thompson, MP 75.69).
 - The construction of a pioneer road continues east beyond MP 76



U.S. Highway 34, Big Thompson Canyon

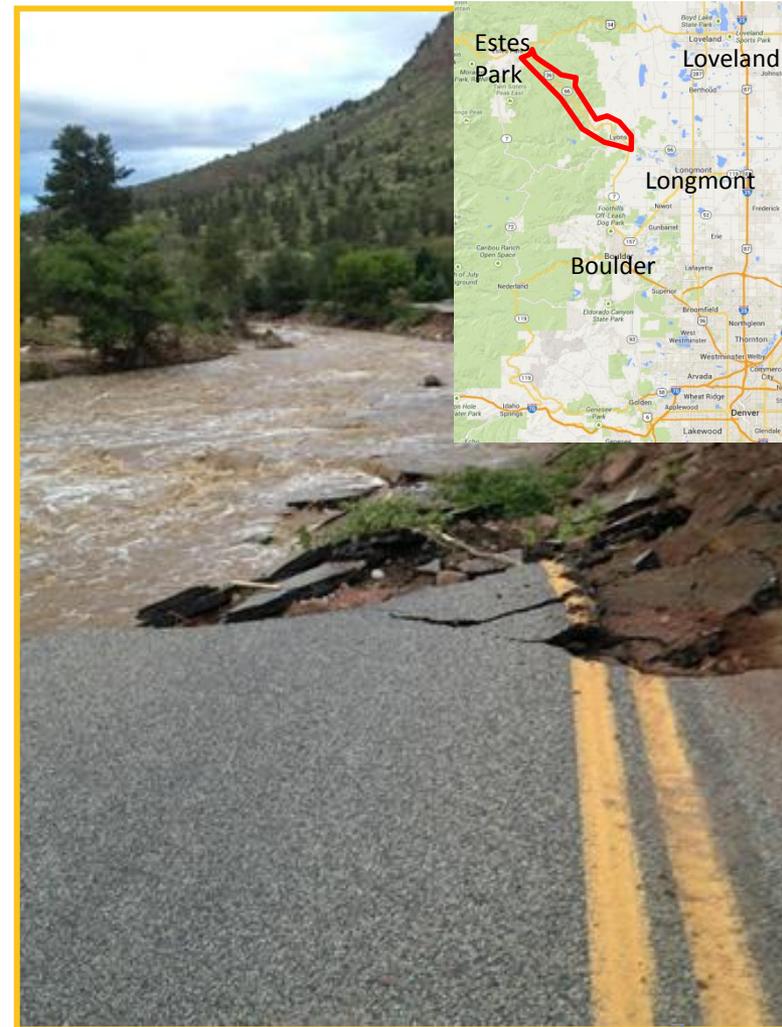


U.S. Highway 34, Big Thompson Canyon

Flood Recovery

North St. Vrain Canyon – U.S. 36

- **Status** – Active Construction- Day Light Operations 7 Days/Week
- **Percentage Complete** – 29%
- **Projected Opening Date** – December 1, 2013
- **Active Project Days To Date** – 13
 - CDOT Construction Management Staff Currently On-Site:
 - 18 CDOT
 - 98 National Guard
 - 12 Maintenance
 - CDOT Construction Management Man-Hours To Date: 1080 MH
 - National Guard (No./MH): 4886 MH
- **Major Events** – Colorado National Guard redeployed on project. Re-mobilized mid-day 10/02.



Natl. Guard at U.S. 36

U.S. Highway 36 (outside Lyons)

Flood Recovery

South St. Vrain Canyon – State Highway 7

- **Status** – Active Construction-Day Light Operations
7 Days/Week
- **Percentage of Project Complete** – 1%
- **Projected Road Opening Date** – December 1, 2013
- **Project Updates** –
 - Active Project Days To Date: 7
 - CDOT Construction Management Staff
Currently On-Site: 5
 - CDOT Construction Management Man-Hours
To Date: 250 MH
- **Major Events** – Major Events: Held project kickoff meeting 10/02, continued debris removal.



State Highway 7

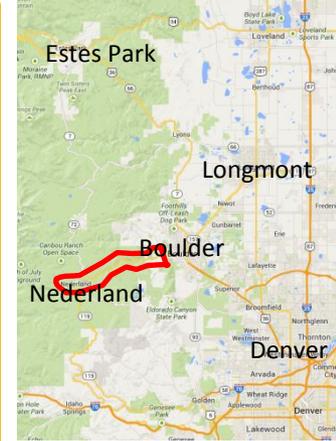


State Highway 7

Flood Recovery

Boulder Canyon – State Highway 119

- **Status** – Active Construction- 24/7
- **Percentage of Project Complete** – 55%
- **Projected Road Opening Date** – October 10, 2013
- **Project Updates** –
 - Active Project Days To Date: 11
 - CDOT Construction Management Staff Currently On-Site: 11
 - CDOT Construction Management Man-Hours To Date: 724MH
- **Major Events** –
 - Paving MP 40.0 to 40.5. Once a barrier is installed to cover damaged guardrail at 34.1, the canyon can be opened to unrestricted two-way traffic between MP 26 to 39.



State Highway 119

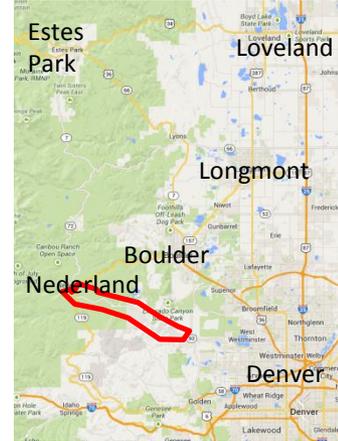


State Highway 119

Flood Recovery

Coal Creek Canyon – State Highway 72

- **Status** – Active Construction 24/7
- **Percentage of Project Complete** – 3%
- **Projected Road Opening Date** – December 1, 2013
- **Project Updates** –
 - Active Project Days To Date: 8 Days
 - CDOT Construction Management Staff Currently On-Site : 4
 - CDOT Construction Management Man-Hours To Date: 650 MH
- **Major Events** –
 - Excavation and pipe placement to start.



State Highway 72



Photos Courtesy of Lawrence Construction



State Highway 72

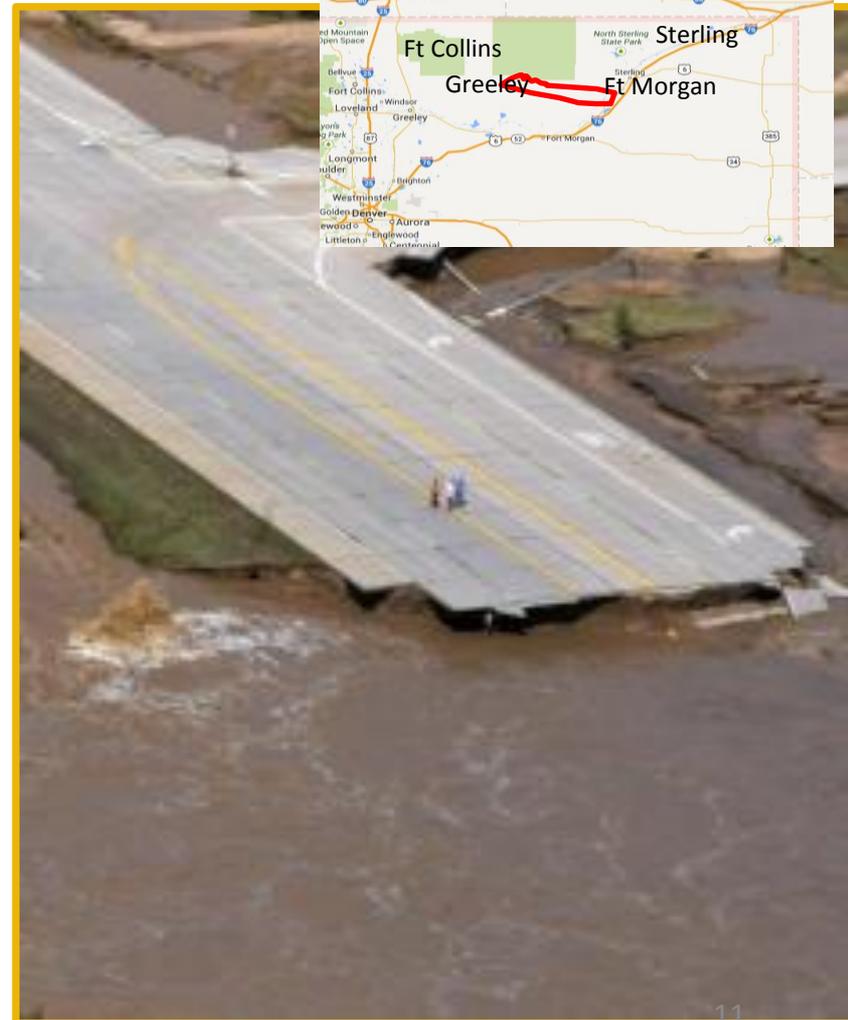
Flood Recovery

U.S. 34 East

- **Status- Active Construction** – 24/7 Operations
- **Percentage of Project Complete** – 100% Complete
- **Projected Road Opening Date** – October 1, 2013
- **Project Updates** –
 - Active Project Days to Date: 12 Days
 - CDOT Construction Management Staff Currently On-Site: 4 each
 - CDOT Construction Management Man-Hours To Date: 750 MH
- **Major Events** – Two way traffic has opened on east bound bridge, eliminates major detour.



U.S. Highway 34



U.S. Highway 34

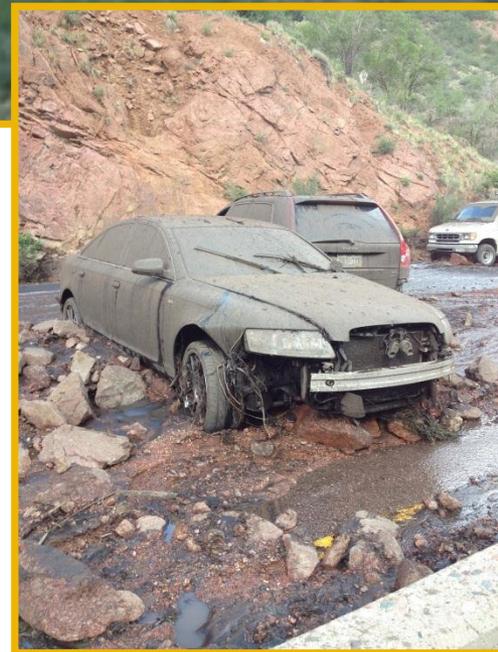
Flood Recovery

Waldo Canyon – U.S. 24

- **Flooding** – 2012 fire burn scar resulted in flooding of Manitou Springs in 2013 summer
- **Improvements** – \$5.5 million allocated by the Transportation Commission
 - Supplements the Waldo Canyon Fire Mitigation Project (\$2 million)
 - Installing new culvert to replace the existing 72 inch culvert (\$1.5 million)
 - Repairs US 24 eastbound (\$1.5 million)
- **Timeframe** –
 - **Short-term** – US 24 closure imposed when one-quarter inch of rain is detected
 - **Long-term** – new culvert to be installed by January 2014, will alleviate future runoff that can lead to flooding; re-vegetation of the watershed may take up to 5 years.



U.S. Highway 24



U.S. Highway 24

Flood Recovery

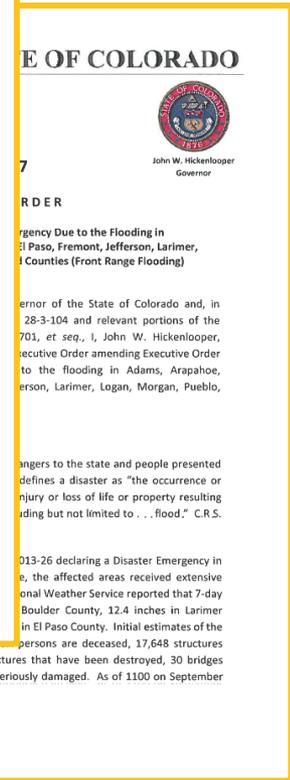
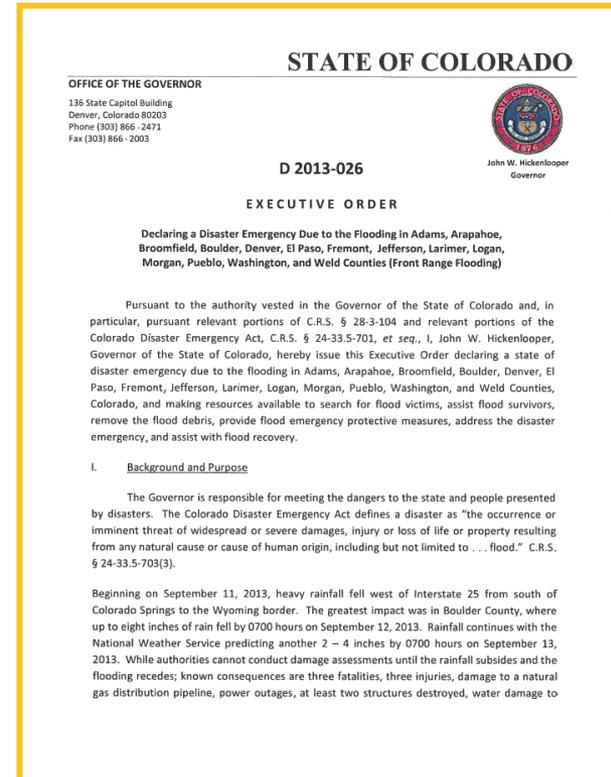
Executive Orders

D 2013-026 & D 2013-027

- Declares a disaster emergency zone in over a dozen counties
- Declares that the damage to the state’s federal-aid highways constitutes a “disaster,” which allows CDOT to seek FHWA emergency relief funds
- Suspends certain statutes and rules if strict compliance would delay recovery efforts

Statutory Changes

- CDOT continues to monitor for possible statutory changes needed to ensure a swift recovery and rebuilding process



Flood Recovery

Contracting

Project	Contractor
US 34/Big Thompson Canyon	Kiewit Infrastructure (Littleton, CO)
SH 7/South St. Vrain Canyon	Skanska USA (Cortez, CO) Ralph Wadsworth Const. (Draper, CO)
Highways East of I-25 in NE Colorado	Lawrence Construction (Littleton, CO) URS Corp. (Denver, CO)
SH 72/Coal Creek Canyon	Lawrence Construction (Littleton, CO)
US 34/Glade Road to Dam Store	Coulson Excavating (Loveland, CO)
US 34/Greeley to Kersey	Zak Dirk (Loveland, CO)
US 34 Business	Connell Resources (Ft. Collins, CO)
US 36/Lyons to Estes Park	Colorado National Guard
US 36/SH 66 to St. Vrain Rd.	Structures, Inc. (Englewood, CO)
US 36/damage near Lefthand Canyon	American West Const. (Denver, CO)
SH 14/Ted's Place to Cameron Pass	American Civil Constructors (Littleton, CO)
SH 36/Goodrich to I-76	Mountain Constructors (Platteville, CO)
SH 144/US 34 to Weldona	Mountain Constructors (Platteville, CO)
SH 71/Snyder north of Brush	Castle Rock Const. (Centennial, CO)
SH 1119/Boulder Canyon	SEMA Construction (Centennial, CO)
SH 257/Milliken to US 34	TLM Constructors (Greeley, CO)



US Highway 34 near Kersey



US Highway 34

Flood Recovery

State Funding

Contingency Funds

- CDOT budget line item used for emergency projects and unforeseen events throughout the year
 - Examples: heavier than usual snowfall, large rockfall events, natural disasters, etc.
- Transportation Commission authorized over \$100 million for flood-related repairs



State Highway 119



Federal Funding

FHWA Emergency Relief Program

- Provides funding to repair or reconstruct federal-aid highways and local federal-aid roads, if the Governor declares the damage to be a “disaster” via executive order
- Must be related to a natural disaster or other catastrophe
- \$35 million already advanced to Colorado from FHWA during the flooding
- **Funds available:**
 - Federal funds are available, but capped at \$100 million per disaster
 - Colorado’s congressional delegation introduced legislation to increase the cap to \$500 million per disaster for Colorado.



State Highway 72, Coal Creek Canyon

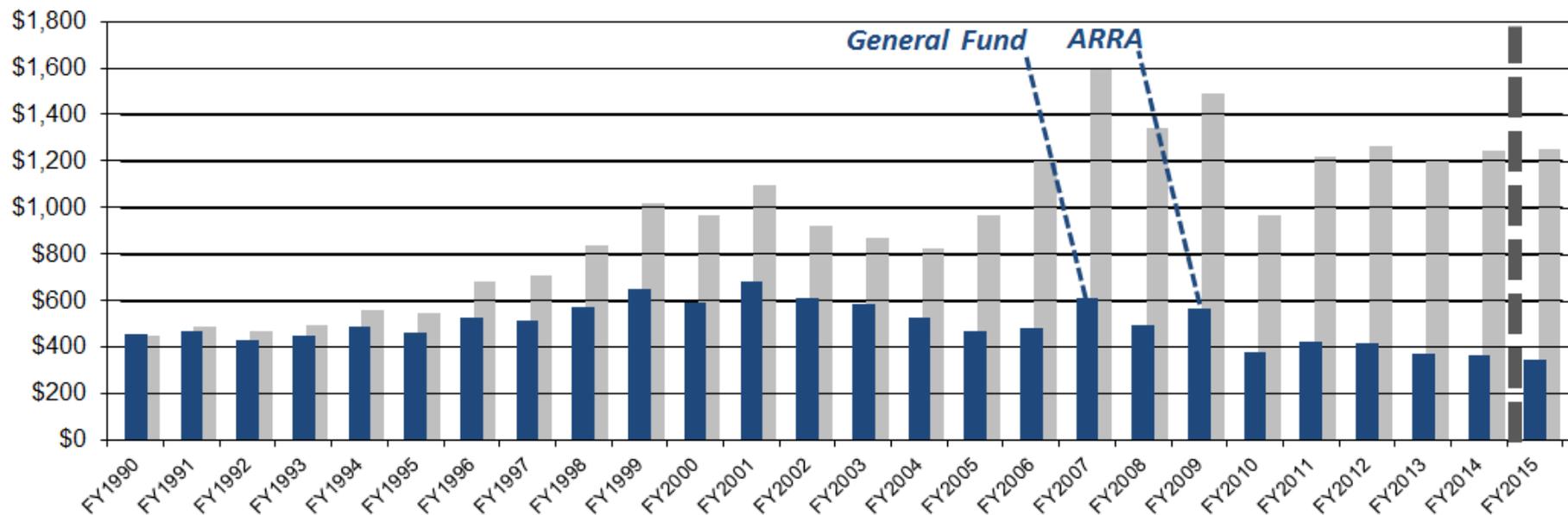


Left Hand Canyon Road, Lefthand Canyon

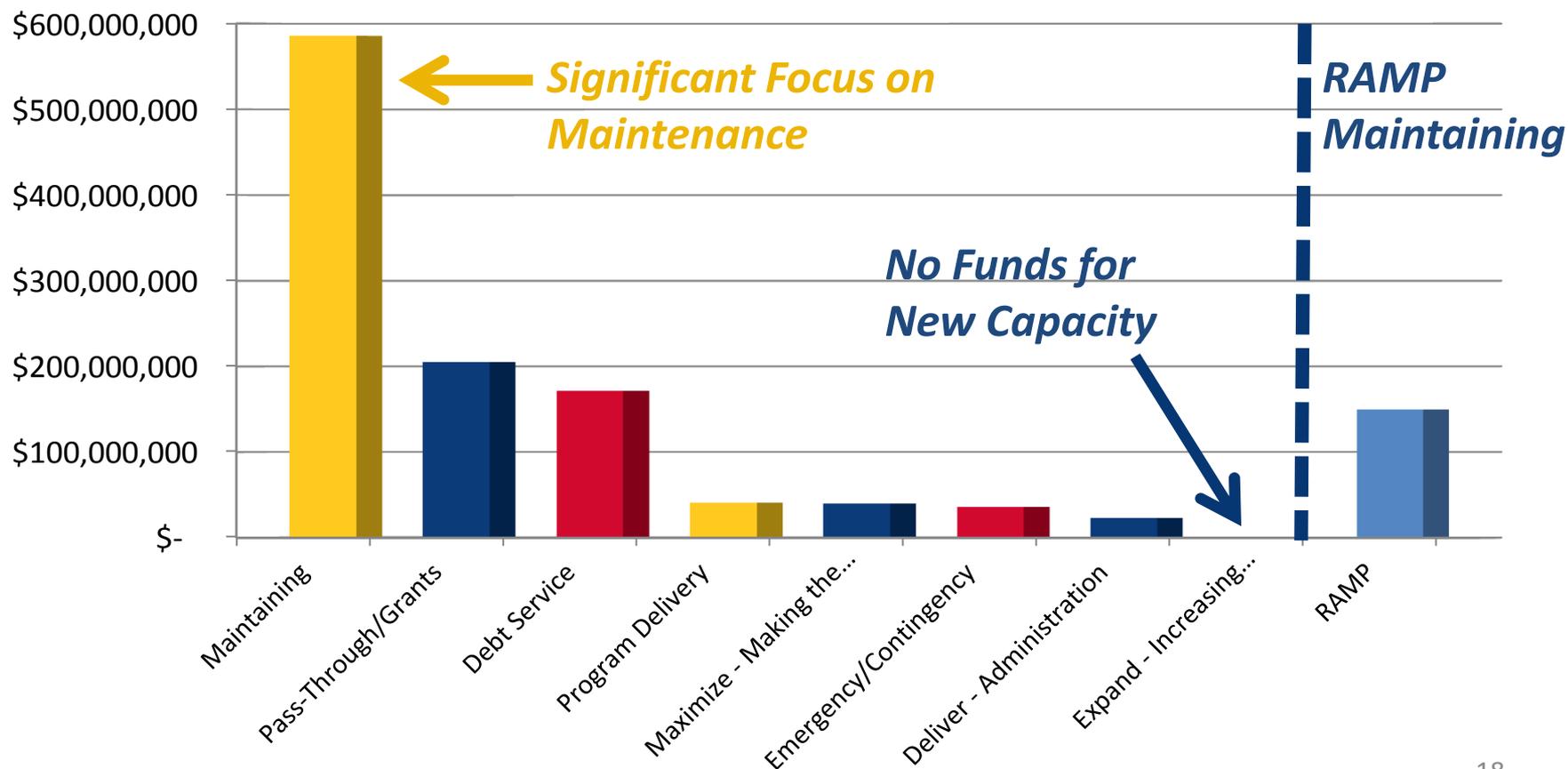
Current & Projected Needs

Inflation-adjusted CDOT Budget by Fiscal Year: FY1990-2015

Revenue Deflated by CDOT Colorado Construction Cost Index



CDOT Budget (FY 2013-14)



Responsible Acceleration of Maintenance and Partnerships (RAMP)

Timeline Update

- **September 2013** – CDOT Staff Recommendation provided to Transportation Commission
- **October 2013** – Transportation Commission Determines Final Award List

Staff Recommendation (available online)

- \$630 million in partnership projects for a one-time RAMP allocation to be constructed in the next five years.
- Partnership Program includes \$118 million in local contributions with the potential to leverage additional private funds extending the reach of RAMP funds. 44 partnership project elements include:
 - 238 Lane miles improved
 - 89 Lane miles added
 - 26 Lane miles transferred from state system
 - 116 Shoulder Miles Improved/Added
 - 13 Rehabilitated bridges
 - 5 New wildlife passes
 - 1 New pedestrian bridge
 - 9 Reconstructed interchanges
 - 4 “Main Street” highway projects
 - 16 Transit/bicycle/pedestrian projects

Questions?

