

STATE OF COLORADO

DEPARTMENT OF TRANSPORTATION

Division of Accounting and Finance
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DATE: October 17, 2013

TO: Transportation Commission

FROM: Scott Richrath, Chief Financial Officer *SR*

SUBJECT: Fifth Supplement – FY 2014

This supplement budgets projects for FY '14 unless otherwise noted in the explanations on the following pages. The project requests are consistent with the FY 2012 through FY 2017 STIP. Funds are available from the Regions' allocations unless otherwise indicated.

The Transportation Commission Contingency Reserve Fund (TCCRF) balance is fluctuating daily as flood relief projects are awarded. In order to provide the Transportation Commission with the most current financial status of its contingency fund, the reconciliation report will be removed from this packet and mailed to you as part of the new Emergency Relief supplement one day before the Transportation Commission's monthly budget meeting.

Budget actions requested:

Region 3

- \$450,000 – Regional Priority Program and FASTER Safety Program – US 6: Clifton Planning and Environmental Linkage (PEL) Study – This action establishes the miscellaneous phase of work. In 2007 Mesa County funded a redevelopment plan for the Clifton area. This study will evaluate the resulting conceptual designs and prioritize improvements to the corridor. (19770/1000185265)

US 6: Clifton - Planning and Environmental Linkage Study (PEL)

Budget Components by Phase, Funding Program, Fiscal Year

Phase of Work	Funding Program	Current Budget			Fifth Supplement Action			Revised Budget	Expended To-Date
		Prior Years	FY 2014	Total	FY 2014	Advanced FY 2015	Total Supplement Request		
Miscellaneous	<i>Federal-aid</i>	\$0	\$0	\$0	\$250,000	\$0	\$250,000	\$250,000	\$0
	<i>FASTER Safety</i>	\$0	\$0	\$0	\$200,000	\$0	\$200,000	\$200,000	\$0
	Total Miscellaneous	\$0	\$0	\$0	\$450,000	\$0	\$450,000	\$450,000	\$0
Total Project Budget		\$0	\$0	\$0	\$450,000	\$0	\$450,000	\$450,000	\$0

- \$4,600,000 – Surface Treatment Program – I-70: Vail Frontage Roads – This action establishes the construction phase of work to resurface Vail frontage roads from approximately West Vail to East Vail exits. (19489/1000184617)

I-70: Vail Frontage Roads

Budget Components by Phase, Funding Program, Fiscal Year

Phase of Work	Funding Program	Current Budget			Fifth Supplement Action			Revised Budget	Expended To-Date
		Prior Years	FY 2014	Total	FY 2014	Advanced FY 2015	Total Supplement Request		
Construction	<i>Federal-aid</i>	\$0	\$0	\$0	\$0	\$3,808,340	\$3,808,340	\$3,808,340	\$0
	<i>State HUIF</i>	\$0	\$0	\$0	\$0	\$791,660	\$791,660	\$791,660	\$0
	Total Construction	\$0	\$0	\$0	\$0	\$4,600,000	\$4,600,000	\$4,600,000	\$0
Total Project Budget		\$0	\$0	\$0	\$0	\$4,600,000	\$4,600,000	\$4,600,000	\$0

Region 2

- \$1,033,000 – On-going Flood Relief pre-September 2013 – US 50 – Sections of roadway suffered damage due to flooding on August 8 and August 9, 2013. Below is the description of the damage and the cost to complete repairs.

 \$1,008,000 US 50 MP 267.8 – 269.0 (Fremont County)
 Approximately 1,000 feet of road embankment was washed away due to inadequate drainage and post fire conditions. Repairs will consist of slope reconstruction and additional cross culverts to prevent/control frequent roadway overtopping and road closure. Cost is estimated at \$1,000,000. Maintenance (R24MS-010) is requesting \$8,000 for reimbursement of expenses.
 (P02&PST-TCC-14/10001186203)

 \$ 25,000 SH 50B MP 339.5 – 343.7 (Pueblo County)
 The roadway and cross culverts were damaged due to debris. Maintenance completed the clean-up of debris and repairs and requests reimbursement for expenses. (Maintenance Cost Center R24MS-010)
- \$5,780,000 – On-going Flood Relief pre-September 2013 – US 24: Between Manitou Springs and Woodland Park – This request has been broken out into separate and distinct purposes and cost.

Funds Required to Fund Immediate Needs

\$800,000 Expedite repairs to the US 24 Business Route that connects West Manitou Springs to US 24. (19358/1000185222)

US 24: Flood and Fire Mitigation due to Waldo Canyon Fire

Budget Components by Phase, Funding Program, Fiscal Year									
Phase of Work	Funding Program	Current Budget			Fourth Supplement Action			Revised Budget	Expended To-Date
		Prior Years	FY 2014	Total	FY 2014	Advanced FY 2015	Total Supplement Request		
ROW	TCCRF	\$150,000	\$0	\$150,000	\$0	\$0	\$0	\$150,000	\$139,494
	Total ROW	\$150,000	\$0	\$150,000	\$0	\$0	\$0	\$150,000	\$139,494
Design	TCCRF	\$620,000	\$0	\$620,000	\$0	\$0	\$0	\$620,000	\$581,520
	Total Design	\$620,000	\$0	\$620,000	\$0	\$0	\$0	\$620,000	\$581,520
Construction	TCCRF	\$3,291,090	\$0	\$3,291,090	\$800,000	\$0	\$800,000	\$4,091,090	\$1,831,313
	Total Construction	\$3,291,090	\$0	\$3,291,090	\$800,000	\$0	\$800,000	\$4,091,090	\$1,831,313
Total Project Budget		\$4,061,090	\$0	\$4,061,090	\$800,000	\$0	\$800,000	\$4,861,090	\$2,552,327

\$380,000 Reimburse for maintenance personnel and equipment expenses associated with flood monitoring and clean-up activities from this past summer's events. (Maintenance Cost Center R24MS-010)

Funds Required to Fund a Flood Monitoring and Road Closure System

\$4,600,000 Installation of a road closure system – Project details are provided on pages four and five of this document. (P02&PST-TCC-14/10001186200)

US 24 ITS and Roadway Closure System

In response to ongoing flooding on US 24 that has resulted in multiple road closures, Region 2 is requesting \$4.0 million to install emergency ITS equipment on US 24 from MP 258 to MP 306 (east of Manitou Springs to Woodland Park), including variable messaging boards, closure gates, fiber connection, and flood monitoring equipment.

Region 2 personnel, along with CDOT's ITS personnel, will manage the design, project development, and the solicitation of bids to construct a road closure system east of Manitou Springs to Woodland Park. A detailed set of plans, specifications, and estimate will be prepared in-house. The design consists of an integrated flood monitoring and remotely controlled highway closure system. The design will take approximately one to two months, ending mid-November. Construction of the system is estimated to take four to five months and will most likely begin in early January, 2014. This work will involve installing a fiber connection that will connect ITS equipment on US 24 between east of Manitou to Woodland Park.

The fiber connection will provide a reliable system to ensure closure gate activation, signal system activation, video monitoring of gate closures, as well as new variable message signs. Region 2 has consulted with CDOT's ITS personnel, and it has been determined that the fiber technology is superior to other technologies such as DSL technology and is critical to avoid malfunction of signals, gates, or VMS systems.

CDOT will advertise the work as a design-bid-build project that will include elements such as:

1. Variable Message Signs
2. Modifying existing signals and additional signals
3. Closed Circuit TVs
4. Fiber Optic Cable
5. Mechanical Highway Gates

As a companion project, CDOT has been coordinating efforts with the US Geological Survey for the installation of a flood monitoring system. An existing partnership between CDOT and the USGS has begun installing a monitoring station in the Waldo Canyon watershed that includes a live video monitor, debris and stage detection equipment, and an additional rain gauge.

This project proposes to install additional monitoring stations in flood critical areas such as Fountain Creek near Cascade. Construction and management of the monitoring stations will be by the USGS. CDOT will modify an existing contract with USGS to include this additional work. These devices will provide emergency personnel and CDOT Maintenance better information on flood conditions to make better informed decisions on future roadway closures.

As a secondary benefit, other agencies may be able to view imminent flooding information in above Manitou Springs associated with the Fountain Creek and Waldo Canyon drainages.

This work includes:

1. Flood video monitors
2. Radar debris and detection equipment
3. Additional rain gauges

Division of Transit and Rail (DTR)

- \$5,305,665 – *Transportation Commission Contingency Reserve* – A short term loan is requested to allow timely execution of DTR contracts for its FY 2014 Federal Transit Administration (FTA) operating grants. This loan will be repaid as FTA appropriations are received.

TABLE A: Budget Determinations for Transportation Commission FY 2014 Loan										
FTA Program	Estimated FTA Award to State	Awards for Operating Expenses		Awards for Grantee Administrative Expenses		Awards for Mobility Management Expenses		Retained for State Administration	Less Carryover from Prior Years	TC Loan Request Amount
		Federal Share (50%)	Local Match 50%	Federal Share (80%)	Local Match 20%	Federal Share 80%	Local Match 20%	100% Federal no match		To cover Federal awards
Section 5310 Rural	\$ 502,000	\$41,500	\$41,500	N/A	N/A	\$117,600	\$29,400	\$0	-\$84,111	\$74,989
Sec. 5310 Small UZAs	\$ 930,132	\$376,696	\$376,696	N/A	N/A	\$153,980	\$38,495	\$0	\$0	\$530,676
Section 5311 Rural	\$10,200,000	\$7,200,000	\$7,200,000	\$1,100,000	\$275,000	N/A	N/A	\$0	-\$3,600,000	\$4,700,000
	\$11,632,132	\$7,618,196	\$7,618,196	\$1,100,000	\$275,000	\$271,580	\$67,895	\$0	(\$3,684,111)	\$5,305,665

Staff Maintenance and Operations

- \$600,000 – *Transportation Commission Contingency Reserve* – Radio Console Upgrades – Funding is requested to upgrade communication consoles at the Colorado Traffic Management Center (CTMC) and the Eisenhower Johnson Memorial Tunnels (EJMT). This equipment facilitates the coordination of response resources to highway incidents. The upgraded console unit operates in a digital communication environment and has a 10-year minimum service life.

Transportation System Management and Operations (TSM&O)

- \$2,600,000 – *Transportation Commission Contingency Reserve* – Expand Program Delivery and Services

\$700,000 – Real-Time Traffic Management Branch (a new branch at CDOT) consultant & contractor support develop a Statewide Traffic Incident Management Planning Document to guide Regions and local law enforcement in their incident management programs; develop a detailed concept of operations for actively managing the surface transportation system through Traffic Incident Patrols, and incident quick clearance training for CDOT stakeholders; support ongoing planning at the direction of the Governor's Office for Freight Operations on the I-70 Mountain Corridor.

\$400,000 – Develop a TDM business plan that outlines priorities and key opportunities to provide travelers with incentives to choose alternate modes of transportation, travel times, or routes; conduct market research from focus groups and specifically target urban and rural traveler information to maximize the effectiveness of CDOT messaging; develop a traveler safety campaign to educate drivers/truckers on safe driving practices specific to the I-70 Mountain Corridor during winter; develop a business plan for supporting the safety and mobility benefits of adaptive cruise control technology through auto sales industry partnership.

\$1,000,000 – ITS Branch development and implementation of Division Performance Measures, Signal Timing and Signal Inventory in SAP, ITS Systems Network and ITS Maintenance contractor support; for training for Colorado Traffic Management Software, Systems Engineering Analysis, Operational Assessments training for CDOT Regions.

\$500,000 – Traffic Engineering & Safety Branch development of a Statewide Strategic Operations Plan, Statewide Bus Shoulder Policy, Managed Lane Procedural Guidance, and contractor support for Safety Assessment program.

COLORADO DEPARTMENT OF TRANSPORTATION

STATE OF COLORADO

**Fifth
Supplement**

Fiscal year 2013-2014

Dated: October 17, 2013

COLORADO DEPARTMENT OF TRANSPORTATION

STATE OF COLORADO

RESOLUTION NO. TC – 3107

**“BE IT RESOLVED, That the Fifth Supplement to the Fiscal Year 2013-2014
Budget be approved by the Commission”**

		PROGRAM DETAILS							
STIP	ROUTE	PROJECT DESCRIPTION	COUNTY(S)	PHASE(S)	CURRENT BUDGET	SUPPLEMENT			
Region 3									
SR36607	006C	US 6: Clifton - PEL Study	19770	Mesa	M	\$	-	\$	450,000
							\$		450,000
Region 3									
SR35217	070A	I-70: Vail Frontage Roads	19489	Eagle	C	\$	-	\$	4,600,000
							\$		4,600,000
Transportation Commission Contingency Reserve Fund									
On-going Flood Relief pre-September 2013									
---	050	US 50: Fremont County (MP 267.8 - 269.0)	---	Fremont	C	\$	-	\$	1,008,000
---	050	US 50: Pueblo County (MP 339.5 - 343.7)	---	Pueblo	C	\$	-	\$	25,000
---	024	US 24: Between Manitou Springs and Woodland Park	---	El Paso	C	\$	5,500,000	\$	1,180,000
Region 2									
---	024	US 24: Future Flood Mitigation Measures	---	El Paso	C	\$	-	\$	4,600,000
Program Delivery									
Division of Transit & Rail									
---	---	Short-term Loan to Execute DTR FY 14 contracts	---	---	---	\$	-	\$	5,305,665
Staff Maintenance & Operations									
---	---	Radio Console Upgrades	---	---	---	\$	-	\$	600,000
Transportation System Management/Ops									
---	---	Expand Program Delivery and Services	---	---	---	\$	-	\$	2,600,000
							\$		15,318,665
Grand Total						\$			20,368,665