

To: Chair and Members of the Board of Directors

From: Douglas W. Rex, Executive Director
(303) 480-6701 or drex@drcog.org

Meeting Date	Agenda Category	Agenda Item #
October 16, 2019	Action	10

SUBJECT

2020-2023 Transportation Improvement Program (TIP) amendments.

PROPOSED ACTION/RECOMMENDATIONS

DRCOG staff recommends approval of the proposed amendments because they comply with the current TIP amendment procedures, as contained within the Board-adopted [2020-2023 TIP Policy](#).

ACTION BY OTHERS

[September 23, 2019](#) – TAC recommended approval
[October 15, 2019](#) – RTC will make a recommendation

SUMMARY

DRCOG's transportation planning process allows for Board-approved amendments to the current Transportation Improvement Program (TIP) on an as-needed basis. Typically, these amendments involve the addition or deletion of projects, or adjustments to existing projects and do not impact funding for other projects in the TIP.

The TIP projects to be amended are shown below and listed in Attachment 1. The proposed amendments to the [2020-2023 Transportation Improvement Program](#) have been found to conform with the State Implementation Plan for Air Quality.

TIP Amendments

- **New Project** **US-36 Emergency Repairs**
Add \$20.43 million State Transportation Commission Contingency funding for emergency repairs
- **2008-076** **R1 FASTER Pool**
Add 7 new pool projects using available TIP project funding
- **2016-035** **30th St. and Colorado Ave. Bike/Ped Underpass**
Roll funding forward to FY 2020 in new TIP and add \$8.050 million in local overmatch
- **2018-014** **I-25 Capacity Improvements: Castle Rock to El Paso County Line**
Add \$8 million in Federal Freight funding to add a southbound truck climbing lane and \$50,000 for various wildlife elements

PREVIOUS DISCUSSIONS/ACTIONS

N/A

PROPOSED MOTION

Move to approve the attached amendments to the *2020-2023 Transportation Improvement Program (TIP)*.

ATTACHMENT

1. Draft resolution
2. Proposed TIP amendments

ADDITIONAL INFORMATION

If you need additional information, please contact Douglas W. Rex, Executive Director, at drex@drcoq.org or (303) 480-6701; or Todd Cottrell, Senior Planner, Short Range Transportation Planning, Transportation Planning and Operations Division at 303-480-6737 or tcottrell@drcoq.org.

New Project: Adds \$20,430,000 in state Transportation Commission Contingency funds for emergency repairs on US-36

New Project

Title: **US-36 Emergency Repairs**

Project Type: **Roadway Operational Improvements**

TIP-ID: **Request**

STIP-ID:

Open to Public:

Sponsor: **CDOT Region 1**

Project Scope

Adds funds for emergency repairs on US-36. Per prior coordination, these funds have been STIPed and budgeted due to the emergency nature of this work.



Affected Municipality(ies)

Affected County(ies)

Westminster

Jefferson

Performance Measures

- Bridge Condition
- Congestion
- Freight Reliability
- Pavement Condition
- Safety
- Travel Time Reliability

Amounts in \$1,000s	Prior Funding	FY20	FY21	FY22	FY23	Future Funding	Total Funding
Federal		\$0	\$0	\$0	\$0		
State (TCC)		\$20,430	\$0	\$0	\$0		
Local		\$0	\$0	\$0	\$0		
Total	\$0	\$20,430	\$0	\$0	\$0	\$0	\$20,430

2008-076: Add 7 new pool projects using available funding

Existing

Title: Region 1 FASTER Pool

Project Type: Safety

TIP-ID: 2008-076

STIP-ID: SR17002

Open to Public:

Sponsor: CDOT Region 1

Project Scope
Pool contains safety-related improvements and upgrades based on the new FASTER-Safety funding program (Colorado Senate Bill 108) in CDOT Region 1.



Affected County(ies)
Adams
Arapahoe
Broomfield
Denver
Douglas
Jefferson

Performance Measures	
<input type="checkbox"/>	Bridge Condition
<input checked="" type="checkbox"/>	Congestion
<input checked="" type="checkbox"/>	Freight Reliability
<input type="checkbox"/>	Pavement Condition
<input checked="" type="checkbox"/>	Safety
<input checked="" type="checkbox"/>	Travel Time Reliability

All pool project funding depicts federal and/or state funding only.

Facility Name	Start-At and End-At	Cost (1,000s)	Facility Name (Cont)	Start-At and End-At	Cost (1,000s)	Facility Name (Cont)	Start-At and End-At	Cost (1,000s)
SH-95 Intersection Improvements	64th Ave	\$851	Roundabouts at C-470 @ Ken Caryl and I-70 @ Harlan	Roundabouts - design	\$500	SH-2 and SH95 Traffic Signals	SH-2 @ Arizona, Kentucky, Bayaud, 1st, SH95 @ 14th, 16th, 44th, 38th, 1st	\$1,500
SH-121/72nd Ave	Right turn accel lanes	\$961	VMS for I-25 south of Denver	VMS Installation	\$500	SH83	Mississippi to Colorado	\$3,500
SH-177 Sidewalks	Mineral Ave to Orchard Rd	\$521	Long mast arm signal design (3 locations)	88 @ Revere, 121 @ Ken Caryl, 121 @ C-470 (2)	\$2,000	SB I-225 Parker Rd Ramp	safety project	\$2,000
High Line Canal Trail Underpass	Parker/Mississippi	\$3,201	Aurora Signal Package	I-70 at Tower	\$600	I-25 SB Bottleneck	restripe from I-76 to I-70	\$1,200
Founders Pkwy Intersection Reconstruct	Crowfoot Valley Rd	\$1,602	SH224 @ Dahlia St.	Traffic Signal Replacement	\$450	Aurora Signals 2019	SH30 @ Jewel and Yale	\$500
Wadsworth TOD left turn protection	Girton, Eastman and Yale	\$200	Ramp Metering	I-76	\$1,500	Lakewood Safety Package 2020	I-70 @ Colfax, Colfax @ Quali, SH8 @ Gamson, and SH121 @ 1st Ave	\$4,960
FASTER Safety Design		\$4,000	US-285/SH-30	Resurfacing	\$1,400	I-70 and Kipling	Traffic signal replacement and access consolidation	\$2,000
SH-2 Traffic Signal Upgrades		\$440	North Signal Replacement Package	SH-128 @ Eldorado, SH-287 @ Midway, 6th, and SH-121 @ Ralston	\$1,000	6" Lane Lines Pavement Marking (2019-2021)	I-25, I-70, I-225, I-76, I-270	\$9,100
Wadsworth	Right Turn Lane Extensions	\$1,621	SH-40 and SH-121	Signal Improvements	\$900	SH-30 and Tower Improvements	Phase 1	\$691
I-70 between MP 252 & 255	Median Barrier	\$2,000	SH391 (Kipling) @ 13th Ave and 13th Place	Intersection Improvements	\$660	SH-30 and Tower Improvements	Phase 2	\$719
SH 121 @ Deer Creek Canyon, C-470 @ Kipling, SH-95 @ WB I-76 Ramp Mod, SH-88 @ US 285, SH-93 @ Washington St, SH-177 @ Otero, SH-121 @ Chatfield	Traffic Signal Replacements	\$2,500	I-25 and Plum Creek/Meadows	Signal poles, storage, and left turn lane and restriping improvements	\$2,300	US-285/SH-30 Resurfacing	Dahlia to Parker	\$1,200
SH-95 @ 1st Ave, 32nd Ave, 38th Ave, 46th Ave, Wellington Ave	Traffic Signal Replacements	\$2,000	I-70 EB Aux Lanes	Ward Rd to Kipling	\$2,300	Broadway Signal Replacement	at 62nd and 70th	\$1,000
US-85 @ Dartmouth	Hampden to Florida SUR	\$2,500	South Federal Blvd	safety improvements	\$300			

ATTACHMENT 1

Amounts in \$1,000s	Prior Funding	FY20	FY21	FY22	FY23	Future Funding	Total Funding
Federal		\$0	\$0	\$0	\$0		
State (Faster-5)		\$23,345	\$28,410	\$29,120	\$26,990		
Local		\$0	\$0	\$0	\$0		
Total	\$64,714	\$23,345	\$28,410	\$29,120	\$26,990	\$0	\$172,579

Revised

Facility Name	Start-At and End-At	Cost (1,000s)	Facility Name (Cont)	Start-At and End-At	Cost (1,000s)	Facility Name (Cont)	Start-At and End-At	Cost (1,000s)
SH-95 Intersection Improvements	64th Ave	\$851	Long mast arm signal design (3 locations)	88 @ Revere, 121 @ Ken Caryl, 121 @ C-470 (2)	\$2,000	Aurora Signals 2019	SH30 @ Jewell and Yale	\$500
SH-121/72nd Ave	Right turn accel lanes	\$981	Aurora Signal Package	I-70 at Tower	\$600	Lakewood Safety Package 2020	I-70 @ Colfax, Colfax @ Quail, SH8 @ Garrison, and SH121 @ 1st Ave	\$4,980
SH-177 Sidewalks	Mineral Ave to Orchard Rd	\$521	SH224 @ Dahlia St.	Traffic Signal Replacement	\$450	I-70 and Kipling	Traffic signal replacement and access consolidation	\$2,000
High Line Canal Trail Underpass	Parker/Mississippi	\$3,201	Ramp Metering	I-76	\$1,500	8" Lane Lines Pavement Marking (2019-2021)	I-25, I-70, I-225, I-76, I-270	\$8,100
Founders Pkwy Intersection Reconstruct	Crowfoot Valley Rd	\$1,602	US-285/SH-30	Resurfacing	\$1,400	SH-30 and Tower Improvements	Phase 1	\$691
Wadsworth TOD left turn protection	Girton, Eastman and Yale	\$200	North Signal Replacement Package	SH-128 @ Eldorado, SH-287 @ Midway, 8th, and SH-121 @ Ralston	\$1,000	SH-30 and Tower Improvements	Phase 2	\$719
FASTER Safety Design		\$4,000	SH-40 and SH-121	Signal Improvements	\$900	US-285/SH-30 Resurfacing	Dahlia to Parker	\$1,200
SH-2 Traffic Signal Upgrades		\$440	SH391 (Kipling) @ 13th Ave and 13th Place	Intersection Improvements	\$660	Broadway Signal Replacement	at 62nd and 70th	\$1,000
Wadsworth	Right Turn Lane Extensions	\$1,621	I-25 and Plum Creek/Meadows	Signal poles, storage, and left turn lane and restriping improvements	\$2,300	SH-93 Signal Package		\$2,500
I-70 between MP 252 & 255	Median Barrier	\$2,000	I-70 EB Aux Lanes	Ward Rd to Kipling	\$2,300	I-70 @ Sheridan and Harlan Safety		\$3,700
SH 121 @ Deer Creek Canyon, C-470 @ Kipling, SH-95 @ WB I-76 Ramp Mod, SH-88 @ US 285, SH-93 @ Washington St, SH-177 @ Otero, SH-121 @ Chatfield	Traffic Signal Replacements	\$2,500	South Federal Blvd	safety improvements	\$300	SH-75 Intersection Improvements	Bowles and Mineral	\$1,000
SH-95 @ 1st Ave, 32nd Ave, 38th Ave, 46th Ave, Wellington Ave	Traffic Signal Replacements	\$2,000	SH2 and SH95 Traffic Signals	SH2@Arizona, Kentucky, Bayaud, 1st. SH95@14th, 16th, 44th, 38th, 1st	\$1,500	C-470 and Ken Caryl	Intersection Improvements	\$5,000
US-85 @ Dartmouth	Hampden to Florida SUR	\$2,500	SH83	Mississippi to Colorado	\$3,500	C-470 and Morrison Rd	Intersection Improvements	\$5,000
Roundabouts at C-470 @ Ken Caryl and I-70 @ Harlan	Roundabouts - design	\$500	SB I-225 Parker Rd Ramp	safety project	\$2,000	SH-40 and SH-121	CDOT Traffic Signal Improvements	\$1,720
VMS for I-25 south of Denver	VMS Installation	\$500	I-25 SB Bottleneck	restripe from I-76 to I-70	\$1,200	Denver West Runaway Truck Ramp		\$5,000

Amounts in \$1,000s	Prior Funding	FY20	FY21	FY22	FY23	Future Funding	Total Funding
Federal		\$0	\$0	\$0	\$0		
State (Faster-5)		\$23,345	\$28,410	\$29,120	\$26,990		
Local		\$0	\$0	\$0	\$0		
Total	\$64,714	\$23,345	\$28,410	\$29,120	\$26,990	\$0	\$172,579

2016-035: Move project and funding from the FY 2018 TIP to the FY 2020 TIP and add local overmatch to advertise the project

Existing in 2018-2021 TIP

Title: **30th St and Colorado Ave Bike/Ped Underpass**

Project Type: **Bicycle and Pedestrian Projects (New)**

TIP-ID: **2016-035**

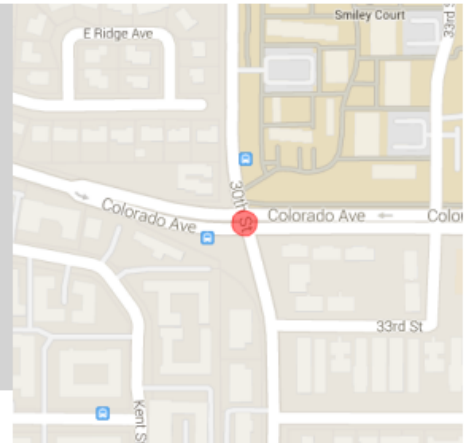
STIP-ID:

Open to Public: **2020**

Sponsor: **Boulder**

Project Scope

This project constructs an underpass at 30th St and Colorado Ave. Additional items as part of the project include 10 ft wide multi-use path connections, ADA/AASHTO compliant lighting, way-finding signage with destination and distance information, and 20 bicycle parking spaces.



Affected Municipality(ies)
Boulder

Affected County(ies)
Boulder

Project Phases	
Year	Phase
2018	Initiate ROW
2019	Initiate Construction

Performance Measures	
<input type="checkbox"/>	Bridge Condition
<input type="checkbox"/>	Congestion
<input type="checkbox"/>	Freight Reliability
<input type="checkbox"/>	Pavement Condition
<input type="checkbox"/>	Safety
<input type="checkbox"/>	Travel Time Reliability

Amounts in \$1,000s	Prior Funding	FY18	FY19	FY20	FY21	Future Funding	Total Funding
Federal (CMAQ)		\$600	\$3,350	\$0	\$0		
State		\$0	\$0	\$0	\$0		
Local		\$700	\$2,350	\$0	\$0		
Total	\$1,000	\$1,300	\$5,700	\$0	\$0	\$0	\$8,000

Revised in 2020-2023 TIP

Amounts in \$1,000s	Prior Funding	FY20	FY21	FY22	FY23	Future Funding	Total Funding
Federal (CMAQ)		\$3,950	\$0	\$0	\$0		
State		\$0	\$0	\$0	\$0		
Local		\$8,871	\$0	\$0	\$0		
Total	\$3,229	\$12,821	\$0	\$0	\$0	\$0	\$16,050

2018-014: Add federal Freight funding to add a southbound truck climbing lane and local funding for various wildlife elements

Existing

Title: **I-25 Capacity Improvements: Castle Rock to El Paso County Line**

Project Type: **Roadway Capacity**

TIP-ID: **2018-014**

STIP-ID:

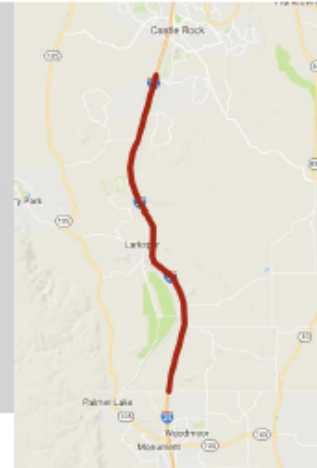
Open to Public: **2021**

Sponsor: **CDOT Region 1**

Project Scope

Add one new express lane in each direction from Castle Rock to the El Paso County line.

Total CDOT project cost is approximately \$367 million and extends south of the DRCOG boundary to Monument.



Affected County(ies)
Douglas

Performance Measures

- Bridge Condition
- Congestion
- Freight Reliability
- Pavement Condition
- Safety
- Travel Time Reliability

Amounts in \$1,000s	Prior Funding	FY20	FY21	FY22	FY23	Future Funding	Total Funding
Federal		\$0	\$0	\$0	\$0		
Federal (FR8)		\$0	\$0	\$0	\$0		
Federal (INFRA)		\$0	\$0	\$0	\$0		
State		\$0	\$0	\$0	\$0		
State (FASTER-B)		\$0	\$0	\$0	\$0		
State (Faster-S)		\$0	\$0	\$0	\$0		
State (SB-1)		\$0	\$0	\$0	\$0		
State (SB267)		\$0	\$0	\$0	\$0		
State (Surface)		\$0	\$0	\$0	\$0		
Local		\$0	\$0	\$0	\$0		
Total	\$321,500	\$0	\$0	\$0	\$0	\$0	\$321,500

Revised

Amounts in \$1,000s	Prior Funding	FY20	FY21	FY22	FY23	Future Funding	Total Funding
Federal		\$0	\$0	\$0	\$0	\$0	
Federal (FR8)		\$8,000	\$0	\$0	\$0	\$0	
Federal (INFRA)		\$0	\$0	\$0	\$0	\$0	
State		\$0	\$0	\$0	\$0	\$0	
State (FASTER-B)		\$0	\$0	\$0	\$0	\$0	
State (Faster-S)		\$0	\$0	\$0	\$0	\$0	
State (SB-1)		\$0	\$0	\$0	\$0	\$0	
State (SB267)		\$0	\$0	\$0	\$0	\$0	
State (Surface)		\$0	\$0	\$0	\$0	\$0	
Local		\$50	\$0	\$0	\$0	\$0	
Total	\$321,500	\$8,050	\$0	\$0	\$0	\$0	\$329,550