



Capital Improvement Program Options

Department of Transportation
Prepared for the Board of Supervisors
May 8, 2012

Legistar Item #11-1324

On April 17th, we discussed CIP options and are back today to have the Board prioritize them:

PROJECT	DESCRIPTION	Total Needed ¹	RSTP	Rural RSTP	Zones 1-7 TIM	Hwy 50 TIM	Zone 8 TIM	MC&FP	Grants	Road Fund	Other ²
Lowest Fund Balance Between FY 12/13 and 15/16 (inclusive)		N/A	0.2	0.3	7.4	1.8	0.3	2.4	N/A	1.3	6.1
Headington Rd Ext.	Finish envt'l & design by 2014 then wait for additional funds	0.3			0.3						
Ponderosa Rd Interchange	Finish envt'l for interchange and envt'l & design for frontage roads by 2015 then wait for add'l funds	1.8			0.9	0.9					
Diamond Springs Pkwy Phase 1A	Do just the Hwy 49 Realignment portion now	5.8			3.4			2.4			
Diamond Springs Pkwy: full project	Hwy 49 Realignment AND new connection between Pleasant Valley Rd & Missouri Flat Rd (includes 1 st year of construction in 15/16 only) – See ‘Back-up”	29.3/20.4 ³									
Wild Chaparral Dr to Palmer Dr	Connect Wild Chaparral Dr to Palmer Dr providing a new frontage road to Highway 50	8.0									
Pleasant Valley Rd/ Patterson Dr Signal	Construction planned for 12/13; supports conditions of approval	3.1			1.5				1.6		
EDH Blvd/Francisco Realignment	Rehab and Turn Pocket only now could be done using Urban RSTP	0.8									
Saratoga Way Ext.	Extend to Iron Point in Folsom (#71324)	11.5									
Bridge Replace.	Green Valley Rd at Mound Springs (BR#C)	4.5/0 ³	0.5/0						4.0/0		
Bridge Replace.	Green Valley Rd at Indian Creek (#77127) - \$3K already spent would have to be given back to Fed.	4.5/1.5 ³	0.5/0.2						4.0/1.3		
Overlay	Greenwood Rd: Marshall Rd to Hwy 193 Forni Rd – Missouri Flat Rd to Placerville Dr	1.8									
Overlay	Greenstone Rd: Green Valley Rd to Mother Lode Dr	0.6									
Overlay	Luneman Rd: Lotus Rd to Jurgens Rd	1.1									
Overlay	S. Upper Truckee Rd: Hwy 50 to Upper Truckee Br.	1.5									

¹ Estimates are to perform work in "Description" column ² E.g., General Fund, Local Funds—assumes these become available for unrestricted use ³ Total \$ needed listed before "/"; \$ needed prior to FY 16/17 listed after "/"

On April 17th, we discussed CIP options and are back today to have the Board prioritize them (cont.):

PROJECT	DESCRIPTION	Total Needed ¹	RSTP	Rural RSTP	Zones 1-7 TIM	Hwy 50 TIM	Zone 8 TIM	MC&FP	Grants	Road Fund	Other ²
Lowest Fund Balance Between FY 12/13 and 15/16 (inclusive)		N/A	0.2	0.3	7.4	1.8	0.3	2.4	N/A	1.3	6.1
Bridge Maintenance	Mt. Aukum Road at North Fork Cosumnes River BM#16	0.14							0.12	0.02	
Bridge Maintenance	Ice House Road at Jones Fork Silver Creek BM#45	0.77							0.57	0.20	
Bridge Maintenance	Bayne Road at Dutch Creek BM#72	0.17							0.15	0.02	
Bridge Maintenance	Cosumnes Mine Road at North Fork Cosumnes River BM#102	0.27							0.24	0.03	
New Chipseal project	15 miles: Deerpark and other subdivisions in El Dorado Hills, as well as Cameron Park	0.44									
Funds Remaining After Deducting DOT Recommended Projects			0.0	0.3	1.3	0.9	0.3	0.0	N/A	1.03	6.1

Guidelines for allocating remaining fund balances:

1. Shading indicates applicable fund types for each project (i.e., fund types that aren't shaded for a given project can't be used, with the exception of grants – see next note)
2. Grants are project specific and shown for projects where grants have already been secured
3. Total \$ used for all projects across any given fund cannot exceed each fund's lowest balance (top row)
4. Projects, or portions of projects, that DOT is proposing to advance prior to FY 16/17, have their associated costs allocated by fund as shown in the tables above.
 - a. The Board may wish to reallocate funds to other projects shown.
5. Diamond Springs Pkwy Phase 1A and "Diamond Springs Pkwy full project" are mutually exclusive; Phase 1A is an initial step that can be completed as a stand-alone project now, or as part of the "full project". The latter can be started now but would not be completed until after 2016 due to funding. (See "Back-up" for more info.)

¹ Estimates are to perform work in "Description" column through FY 15/16

² E.g., General Fund, Local Funds – assumes these become available for unrestricted use

Descriptions of Ranking Criteria¹:

- **Estimated Construction Start**
 - First fiscal year the project is planned to be in construction
 - For projects with proposed scopes that don't include construction, "N/A" is listed first, with a planned construction start date in parentheses
 - Projects estimated to start construction in FY 12/13 or 13/14 are assumed to be more desirable and therefore are highlighted
- **Supports Economic Development in El Dorado County**
 - Projects that would help create connections to pave the way for new commercial development are given a "yes" and are highlighted
 - For projects with proposed scopes that don't include construction, "N/A" is listed first, with a "yes" in parentheses after to denote that these projects will support economic development once constructed
- **DOT Safety Ranking for Proposed Scope²**
 - Projects are rated High, Medium, or Low based on the likelihood that they would improve safety conditions once constructed
 - For projects with proposed scopes that don't include construction, "N/A" is listed first, with a safety rating listed in parentheses after it that projects what the safety rating would be once the project is constructed
 - Medium or High ranked projects are more desirable and thus highlighted

^{1,2} Reference: "Options Table", "Accident Data" Attachments

Descriptions of Ranking Criteria (cont.):

- **Capacity/Traffic Relief**
 - 2011 traffic counts (ADTs*) are included for existing roads to provide a relative sense of how heavily they are used
 - For proposed new roads, projected ADTs are provided from recent traffic studies, and are indicated by an asterisk
 - Projects with ADTs around 10,000 or higher are highlighted
- **Funding/Grant Leveraging**
 - Projects are ranked High, Medium, or Low based on their ability to attract grant funding (High = higher likelihood of attracting grant funding)
 - Medium or High projects are more desirable and thus highlighted
- **Development Conditions**
 - Approved and pending development projects are listed that were conditioned by DOT based on the applicable CIP project(s) being in the 10 year (single family subdivisions 5 or more lots), or 20 year (multifamily and non-residential projects) CIP
 - There are NO approved single family subdivisions of 5 or more lots
- **Caltrans Sufficiency Rating (applicable to Bridge projects)**
 - This is Caltrans' bridge inspection rating; bridges with scores under 80 are eligible for rehabilitation or replacement
 - All bridge projects are highlighted in this column as they are eligible for rehabilitation at a minimum

DOT recommends the Board approve the following options for inclusion in the Department's 2012 CIP:

Ref Num -ber	Project	Status	Proposed Scope of Work	Total \$ Needed for Proposed Scope	Est. Const Start	Econ. Dev.	Safety Rank	Traffic Relief (2011 ADT ¹)	Funding – Grant Lever-aging
1	Ponderosa Rd Interchange & frontage roads	Environmental analysis / document for interchange and frontage roads are ~90% complete.	Finish envt'l analysis for interchange & frontage roads (both CEQA & NEPA) resulting in PSR/PR for Caltrans. (Construct interchange post 2021)	\$0.15M	N/A	N/A	N/A	7,266	Med
5	Diamond Springs Pkwy Phase 1A	Environmental document has been approved by the Board. Design is ~60% complete.	Hwy 49 Realignment. Design complete by end of FY 12/13. Construct between FY 13/14 and 14/15.	\$5.9M ²	13/14	Yes	Med	16,000 to 18,750*	Med/ High
7	Pleasant Valley Rd/ Patterson Dr Signal	Environmental document has been approved by the Board and Caltrans. Design is ~80% complete. ROW acquisition is planned for 12/13, and construction between 12/13 & 14/15.	Complete Design, ROW acquisition and Construction.	\$3.1M (\$1.6M is coming from grants)	12/13	Yes	Low/ Med	9,168*	High
8	El Dorado Hills Blvd / Francisco Dr Right Turn Pocket & Overlay	This would be a new project.	Add a right turn pocket from El Dorado Hills Blvd to Francisco and then add an overlay to improve the overall roadway surface.	\$0.5M ³	12/13	No	Med	15,150	Med

¹ Asterisks (*) indicate forecasted ADTs at project completion.

² Estimate includes FY 11/12 spending which was excluded from total in 4/17 presentation.

³ Revised estimate since 4/17/12 Board mtg; DOT investigating using in-house staff.

DOT recommends the Board approve the following options for inclusion in the Department's 2012 CIP (cont.)

Ref Num -ber	Project	Status	Proposed Scope of Work	Total \$ Needed for Proposed Scope	Est. Const Start	Suf- ficiency Rating	Safety Rank	Funding – Grant Lever- aging	Traffic Relief (ADT)	Econ. Dev.
16	Green Valley Rd at Mound Springs	No work has been done, but the grant application has been approved by the funding agency.	Bridge Replacement: Environmental analysis complete by 15/16. ROW & constr. complete by 2021	\$4.5M (\$4.0M from grant)	16/21	53.0	Low	High	4350	No
17	Green Valley Rd at Indian Creek	\$3K spent on planning which would have to be returned to the granting agency if canceled.	Bridge Replacement: Env't'l analysis complete in 13/14. Design and ROW complete in 15/16. Constr. post 2016	\$4.5M (\$4.0M from grant)	15/16	64.8	Low/ Med	High	4350	No
18	Mt. Aukum Rd at N. Fork Cosumnes	No work has begun - maintenance planned for 12/13 - 13/14	Bridge Maintenance	\$0.14M (\$0.12 from grant)	12/13	67.5	Med	High	3000	No
19	Ice House Rd at Jones Fork Silver Creek	No work has begun - maintenance planned for 12/13 - 14/15	Bridge Maintenance	\$0.77M (\$0.57 from grant)	14/15	73.8	Low	High	1500	Yes
20	Bayne Rd at Dutch Creek	No work has begun - maintenance planned for 12/13 - 14/15	Bridge Maintenance	\$0.17M (\$0.15M from grant)	14/15	60.6	Low	High	150	No
21	Cosumnes Mine Rd at North Fork Cosumnes River	No work has begun - maintenance planned for 12/13 - 15/16	Bridge Maintenance	\$0.27M (\$0.24M from grant)	14/15	65.0	Low	High	10	No

The recommended options use much of the fund balances remaining between 2012 and 2016:

\$ Millions

	RSTP	Rural RSTP	Urban RSTP	Zones 1-7 TIM	HWY 50 TIM	Zone 8 TIM	MC& FP	Grants	Road Fund	Other ¹
Available for Optional Projects	0.20	0.30	0.50	7.400	1.800	0.30	2.40	N/A	1.30	6.10
Needed for Optional Projects	0.20	0.24	0.45	5.775	0.075	0.00	1.70		0.27	0.00
Remaining Balances	0.00	0.06	0.05	1.625	1.725	0.30	0.70	N/A	1.03	6.10

DOT recommends keeping the remaining fund balances as buffer for emergency and/or cash flow purposes.

¹ "Other" includes local funds - which assumes these become available for unrestricted use (pending agreement).

For the Board's Information:

- About 60 CIP projects were submitted to the Sacramento Area Council of Governments (SACOG) for the 2013/16 Metropolitan Transportation Improvement Program (MTIP) update.
- All CIP projects that have federal funds are programmed in the MTIP.
- When new projects get federal funds, they are amended into the MTIP.
- Only one project has not yet been submitted to SACOG because federal funding hasn't been received yet (i.e. El Dorado Hills Blvd/Francisco Right Turn Pocket and Overlay).
 - DOT awaiting approval from SACOG/EDCTC* to program the Urban RSTP for this project, upon Board approval of this project for inclusion in the CIP.

DOT recommends the Board approve projects 1, 5, 7, 8 & 16 - 21 for inclusion in the Department's 2012 CIP:

Ref. Num.	PROJECT	PROPOSED SCOPE	COST
1	Ponderosa Rd Interchange & frontage roads	Finish envt'l analysis for interchange & frontage roads (both CEQA & NEPA) resulting in PSR/PR for Caltrans. (Construct interchange post 2021).	\$0.15M
5	Diamond Springs Pkwy Phase 1A	Hwy 49 Realignment. Design complete by end of FY 12/13. Construct between FY 13/14 and 14/15.	\$5.9M
7	Pleasant Valley Rd/ Patterson Dr Signal	Complete Design, ROW acquisition and Construction.	\$3.1M (\$1.6M is coming from grants)
8	EDH Blvd / Francisco Dr Right Turn Pocket & Overlay	Add a right turn pocket from El Dorado Hills Blvd to Francisco and then add an overlay to improve the overall roadway surface.	\$0.5M
16	Green Valley Rd at Mound Springs (BR#C)	Bridge Replacement: Environmental analysis complete by 15/16. ROW & constr. complete by 2021.	\$4.5M (\$4.0M from grant)
17	Green Valley Rd at Indian Creek (#77127)	Bridge Replacement: Env't'l analysis complete in 13/14. Design and ROW complete in 15/16. Constr. post 2016.	\$4.5M (\$4.0M from grant)
18	Mt. Aukum Road at North Fork Cosumnes River	Bridge Maintenance	\$0.14M (\$0.12M from grant)
19	Ice House Road at Jones Fork Silver Creek	Bridge Maintenance	\$0.77M (\$0.57M from grant)
20	Bayne Road at Dutch Creek	Bridge Maintenance	\$0.17M (\$0.15M from grant)
21	Cosumnes Mine Road at North Fork Cosumnes River	Bridge Maintenance	\$0.27M (\$0.24M from grant)

¹ See "Motion" attachment

Back-up Slides:
(Taken from 4/17/12 CIP Presentation)

Background: Revenue sources and where each can be used:

- **“Road Fund”:** Various entitlements received by the County for general road purposes. The top 4 sources of funding projected for fiscal year 2012/13 include:

FUND TYPE	REVENUE (\$M)	RESTRICTED	ALLOWABLE USES
State Highway Users Tax (“Gas Tax”)	8.42	YES	Roads only
Road District Tax (RDT)	4.70	YES	Roads only
Miscellaneous*	1.89	YES	Reimbursements
Public Utility Franchise Fees (PUFF)	0.66	NO	Board Discretion

** Interest, permits and fees, billings to outside sources or other departments/funds (e.g., County Engineer, Fleet, Special District, etc.), RSTP*

Background: Revenue sources and where each can be used (cont.):

- **State Highway Users Tax (aka “Gas Tax”):** Provided for under the Streets and Highway Code, Sections 2104-2106. Most of this funding is calculated by formula based on the number of licensed vehicles and maintained mileage.
- **Road District Tax:** A percentage of property taxes.
- **Public Utility Franchise Fees:** Provided for under the Streets and Highway Code, Sections 680-694. Public utility companies have entered into franchise agreements that provide for the payment of franchise fees to the County based on a percentage of power sales.
- **General Fund:** Can be used for anything the Board directs DOT to use it for, including capital overlays, road maintenance, matching funds for bridge grants, etc.
- **Federal/State Grants:** Grants awarded for various types of (primarily) capital projects.
- **MC&FP:** Master Circulation and Funding Plan: A portion of the sales and property tax collected in the MC&FP district, that is to be used to fund roadway capital improvement projects inside the district (e.g., Missouri Flat Interchange, Diamond Springs Parkway).
- **TIM Fees:** Capital projects in “Exhibit B” of the most current Board adopted TIM Fee Resolution
 - Zone 8 TIM: (formerly known as “El Dorado Hills/Salmon Falls Area RIF”) Traffic Impact Mitigation fees to fund road improvements in the El Dorado Hills area (TIM Fee Program Zone 8)
 - Highway 50 TIM: Traffic Impact Mitigation fees collected in all Zones to fund road improvements along the Highway 50 Corridor
 - Zones 1-7 TIM: Traffic Impact Mitigation Fees to fund road improvements in the remainder of the county (TIM Fee Program Zones 1-7), excluding El Dorado Hills and Tahoe.
- **RSTP:** Regional Surface Transportation Program: This program was established by California State Statute utilizing Surface Transportation Program Funds that are identified in Section 133 of Title 23 of the United States Code. Various types of projects are eligible for funding from the RSTP including, but not limited to: construction, reconstruction, rehabilitation, resurfacing, restoration, and operational improvements on Federal-aid highways and bridges; safety improvements on public roads of all functional classifications; capital costs for transit projects eligible for assistance under the Federal Transit Act; etc.
 - **Urban RSTP:** Can only be used in the urbanized area based on the Sacramento Urbanized Area Map 2000. El Dorado Hills is part of the Sacramento Urbanized Area.
 - **Rural RSTP:** Can only be used in areas that are not considered urban.

Cumulative funds remaining, updated to include projects approved by the Board on 4/17:

Year End Fund Balances	FY 10/11 Actuals \$M	Projections \$M				
		FY 11/12	FY 12/13	FY 13/14	FY 14/15	FY 15/16
Zone 8 TIM ²	2.4	2.0	1.0	0.5	0.3	0.4
Silva Valley Set Aside ³	27.7	23.7	34.9	21.6	0.2	0.3
Zones 1-7 TIM	11.1	10.7	10.6	7.4	8.3	8.8
MC & FP ⁴	5.3	5.6	5.4	2.4	3.3	4.2
Hwy 50 TIM	4.1	1.6	1.8	2.1	2.6	3.1
Hwy 50 TIM – Blackstone ⁵	1.1	1.2	1.4	1.6	1.9	2.2
RSTP (Regional Surface Transportation Program)	0.4	0.6	0.8	0.2	0.5	0.8
Rural RSTP	0.7	1.2	0.6	0.7	0.5	0.3
Local Funds –Tribe ⁶	7.3	10.2	6.1	6.6	9.4	12.1
Road Fund	9.6	9.6	6.0	3.9	3.0 ⁷	1.3 ⁷

² Includes Blackstone Prepaid

³ Construction begins 12/13; assumes developer advances balance of funds as needed

⁴ Master Circulation and Funding Plan; Note \$1.5M reserve required for possible future bond issuance

⁵ Reserved for 53115 US 50 – Westbound Auxiliary Lane – El Dorado Hills Blvd to Empire Ranch Rd

⁶ Projected \$2.6M/year with 2%/yr increase beginning FY 13/14

⁷ \$0.27M added back in for removal of bridge maintenance project matches; no funds have been spent on these yet