



**METROLINK.**

SOUTHERN CALIFORNIA REGIONAL RAIL AUTHORITY

One Gateway Plaza Twelfth Floor Los Angeles, CA 90012

[metrolinktrains.com](http://metrolinktrains.com)

May 16, 2017

**SENT VIA EMAIL**

**TO:** Darrell Johnson, *Chief Executive Officer, OCTA*  
Darren Kettle, *Executive Director, VCTC*  
Anne Mayer, *Executive Director, RCTC*  
Phil Washington, *Chief Executive Officer, Metro*  
Dr. Raymond Wolfe, *Executive Director, SBCTA*

**FROM:** Arthur T. Leahy, *Chief Executive Officer, SCRRA*

**SUBJECT:** SCRRA Revised Preliminary FY2018 Budget

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On May 1, 2017, we transmitted to each of you a Preliminary FY 2017-18 (FY18) SCRRA Budget for Operations and Rehabilitation/New Capital. This was later revised on May 4, 2017 to include the proposed R2R Increase from LOSSAN as directed by our Board of Directors on April 21, 2017.

At the May 12, 2017, Board Meeting, the Directors voted to include two more items in the FY18 Preliminary Budget. These two items are a one-year Pilot Sunday Service on the Holidays, net cost of \$72k, and a few critical IT Projects designed to enhance customer communication and operational efficiency totaling \$350k.

The attached Revised Preliminary FY18 Budget and accompanying attachments reflects those two additional items. The Budget Summary, Operating Revenues and Operating Expenditure sections have all been revised for this adjustment as well.

**Budget Priorities for FY18**

The FY18 Preliminary Budget as proposed reflects priorities consistent with the “back to basics” approach outlined in the Strategic Plan, adopted in March 2016. The budget provides funding in alignment with the Authority’s strategic goals and includes the following priorities for the upcoming fiscal year:

- Continued emphasis on safe operations, with the full implementation of Positive Train Control (PTC) as the centerpiece of our efforts.
- Improved reliability and on-time performance, by putting Tier 4 locomotives into service and

providing funding necessary for required equipment maintenance, consistent with the Fleet Management Plan.

- Enhanced customer experience, by implementing upgrades to the mobile ticketing application and a modernized ticket vending system.
- Investment in existing assets to maintain a state of good repair, by funding critical rehabilitation projects and improving processes to accelerate project delivery.
- Ongoing workforce development, by training and engaging employees.

## **Overall Summary**

The FY18 Preliminary Budget as proposed includes new budgetary authority of \$337.9 million. The Preliminary Budget consists of Operating Budget authority of \$243.0 million, a decrease of 0.3% as compared to the FY17 Adopted Budget. New capital authority totals \$94.9 million, \$89.6 million for Rehabilitation Projects and \$5.3 million for New Capital Projects. Carryover of New Capital Projects approved in prior years is \$264.4 million, and carryover of Rehabilitation Projects approved in prior years is \$52.5 million.

## **Revised Preliminary Operating Budget for FY18**

((\$000s))	TOTAL FY17-18	Metro Share	OCTA Share	RCTC Share	SBCTA Share	VCTC Share
<b>Revenues</b>						
Gross Farebox	\$85,159	\$42,031	\$22,453	\$7,759	\$10,512	2,404
Dispatching	2,125	1,130	684	6	55	250
Other Operating	12	6	3	1	2	-
Maintenance-of-Way	13,350	8,052	2,531	667	1,556	544
<b>Total Revenues FY18 Budget</b>	<b>\$100,646</b>	<b>\$51,219</b>	<b>\$25,671</b>	<b>\$8,433</b>	<b>\$12,124</b>	<b>\$3,199</b>
<b>Expenses</b>						
Train Operations & Services	\$143,486	\$72,153	\$33,859	\$15,860	\$15,429	6,185
Maintenance-of-Way	41,607	22,046	8,446	3,200	5,458	2,458
Administration & Services	40,289	19,261	7,314	5,736	4,172	3,806
Insurance	17,663	9,418	4,290	1,342	2,026	586
<b>Total Expense FY18 Budget</b>	<b>\$243,045</b>	<b>\$122,877</b>	<b>\$53,910</b>	<b>\$26,139</b>	<b>\$27,084</b>	<b>\$13,035</b>
<b>Total FY18 Budget Subsidy by Member</b>	<b>\$142,399</b>	<b>\$71,659</b>	<b>\$28,239</b>	<b>\$17,705</b>	<b>\$14,960</b>	<b>\$9,836</b>
<b>FY 2016-17 Budget Subsidy by Member</b>	<b>\$141,989</b>	<b>\$71,998</b>	<b>\$28,294</b>	<b>\$17,345</b>	<b>\$14,841</b>	<b>\$9,511</b>
Over/(Under) Last Year Budget	410	(340)	(56)	361	119	325
Percent of Change	0.3%	( 0.5%)	( 0.2%)	2.1%	0.8%	3.4%

Numbers may not foot due to rounding.

### Major Assumptions for FY18 Preliminary Operating Budget

- No fare increase.
- A slight increase (0.7%) of Farebox Revenues.
- Reflects the implementation of a Fuel Hedging Program purchase fuel for efficiently and stabilize the fuel budget from year to year.
- Reflects the reduction of 2.0 FTE positions.
- Reflects a 2.0% Cost of Living Adjustment, and a 3.0% Pool for Performance Based Merit Adjustment.
- Reflects the final portion of \$3.0m for the reservation of the insurance deductible related to the Oxnard incident.
- Assumes the operation of a total of 2.8 million revenue service miles through the operation of 172 weekday trains and 90 weekend trains.
- Adds Sunday Service on Holidays
- No incremental regular services were requested for FY18.

All operational budget description below refers to attached detailed Attachments A through D.

### Operating Revenues

Operating revenues include farebox, dispatching revenues, maintenance-of-way revenues, interest, other minor miscellaneous revenues, which are estimated to total \$100.6 million for FY18, a decrease of \$1.2 million or 1.2% compared to the FY17 Adopted Budget.

Farebox Revenues, the largest operating revenue of the budget, are projected to increase \$0.6 million or 0.7% compared to the FY17 Adopted Budget to a total of \$85.2 million.

Dispatching and Maintenance of Way (MOW) revenues from the freight railroads and Amtrak are estimated from existing agreements based on projections of current usage. The FY18 Preliminary Revenue projection estimates a decrease of 18.0% in Dispatch Revenues from the FY17 Adopted Budget to a total of \$2.1 million. This decrease is primarily the result of lower on time bonuses from Amtrak based on lower on time performance as a result of scheduled track closures or non-running Amtrak trains on weekends. This reduces the number of trains and the number of train miles which reduces the calculation for Amtrak Intercity revenues. The FY18 proposed MOW Revenues are projected to decrease 8.8% to \$13.4 million. Reduced rail freight traffic for the largest segment of our MOW Revenue (Saugus-UPRR) translates to a reduction of our revenue which is calculated based on 'car miles'. We are currently in negotiation with Union Pacific to review this and other reciprocal agreements with that Freight Line. Our goal with both Union Pacific and the other Freight Rail Roads is to receive an amount for Maintenance of Way commensurate with our current costs, and more reflective of the additional wear on our system for the heavier loads carried by the transport of freight.

### Operating Expenditures

#### Train Operations, Maintenance-of-Way (MOW), Administration, and Insurance

The Train Operations component of the budget consists of those costs necessary to provide Metrolink commuter rail services across the six-county service area, including the direct costs of railroad operations, equipment maintenance, required support costs, and other administrative and operating costs. The FY18 Revised Preliminary Budget for expenditures related to Train Operations is \$143.5 million.

Ordinary MOW expenditures are those costs necessary to perform the inspections and repairs needed to assure the reliable, safe operation of trains and safety of the public. The FY18 budgeted amount for expenditures related to MOW is \$41.6 million.

The FY18 Preliminary Budget for expenditures related to Administration & Services is \$40.3 million and Insurance/Claims \$17.7 million.

Overall, the total FY18 preliminary budgeted expenditures have decreased from the FY17 Adopted Budget by \$0.8m or 0.3%. The components of this change are as described below.

- Total Train operations have decreased by \$1.2 million. The primary reasons for the \$1.2 million decrease are: Amtrak increase \$0.3m (Holiday service); Fuel costs have reduced by \$3.1m due to a combination of Fuel hedging and lower diesel prices; Equipment maintenance is down \$0.9m, a combination of an increase of \$2.5m in the Bombardier equipment Maintenance agreement (which increased in this year to provide an agreement for a lower (3.5%) increase fixed for the next eight year and a decrease of \$2.7m in material issues for rolling stock repairs and a decrease in Other Mechanical Services of \$0.7m; offset by increases in Sheriffs of \$0.3m and increases in Guards of \$0.8m. (Guards are up as a result of a very low bid for 1<sup>st</sup> year services in a multi-year agreement. The bid is still the lowest overall); Utilities/Leases increase of \$0.5m; Amtrak Transfers have increased by \$0.8m as a result of a transfer price increase by LOSSAN.
- Maintenance of Way has increased by \$2.0 million. The primary reasons for the increase are Track maintenance, up \$0.4m; Signal/Communications maintenance \$1.2m (as a result of the necessity to focus recent rehabilitation efforts on Track and Structures); Overhead allocation \$0.5m; Labor & fringe \$0.6m; all other categories total increase of \$0.8m offset by decrease in Extraordinary Maintenance \$0.4m, PTC \$1.1M.
- Administration and Services have increased by \$3.6 million. The primary reasons for the increase include \$2.0m in the Ops Non Labor Category as a result of a PTC WABTEC license maintenance fee. (The original contract which was negotiated to include maintenance and was included in Capital, has now expired. In FY18, this becomes an operating cost for the Authority.) Indirect Administrative Expense as a result of \$0.4 in IT projects. Operations Professional Services increased by \$1.3m due to the combination of a consultant to monitor the new Bombardier Contract, \$0.6m and CFR training to comply with FRA regulations \$0.3m, and a consultant to establish a ticket sales system at retail stores, \$0.4m.
- Total Insurance expense increased by \$0.9m. The primary reason for the increase is the incremental increase of \$1.0m to provide a reserve for insurance deductible related to the Oxnard Incident, offset by an insurance premium decrease of \$0.1m.

The attachments as listed below provide additional detail on the FY18 Preliminary Operating Budget as described.

- Attachment A: Presents a summary of the Revenues, Expenses and Subsidy proposed for FY18. This attachment also shows a comparison to the FY17 Adopted Budget.
- Attachment B: Presents the Historical Detailed Annual Operating Budget by Cost Component. The attachment provides Actual expense for FY14, FY15 & FY16, Adopted Budget for FY17 and Preliminary Budget for FY18, with a variance comparison between FY17 Adopted Budget and FY18 Preliminary Budget.
- Attachment C: Presents the Detailed FY18 Preliminary Annual Operating Budget by Cost Component by Member Agency.
- Attachment D: Presents an analysis of the elements of change (as described above) between the FY17 Adopted Budget and the FY18 Preliminary Budget.
- Attachment E (NEW): Presents the Net Local Subsidy by Member at full dollar amount with comparisons to prior years. This was a request from Members who require full dollar amounts for the construction of their Board requests.

### **Capital Budget**

#### **Carryforward from prior years**

Capital Projects are frequently multi-year endeavors. Unexpended project balances are referred to as “Carryovers” because their uncompleted balance moves forward to the following year. Projects authorized in prior years but “carried over” total \$52.5 million for Rehabilitation and \$264.4 million for New Capital. They are shown in detail on Attachments O and P respectively.

#### **Preliminary Capital Rehabilitation Request for FY18**

<b>FY18 Rehab Project Allocation by Funding Source (Includes Other Funding Sources)</b>							(000s)
<b>Asset / Funding Source</b>	<b>Metro</b>	<b>OCTA</b>	<b>RCTC</b>	<b>SBCTA</b>	<b>VCTC</b>	<b>Other</b>	<b>Total</b>
Business Systems	\$ 864	\$ 360	\$ 202	\$ 262	\$ 131		\$ 1,819
Communications	\$ 303	\$ 170	\$ 61	\$ 84	\$ 57		\$ 675
Facilities	\$ 1,140	\$ 79	\$ 44	\$ 58	\$ 29		\$ 1,349
Grade Crossing	\$ 6,501	\$ 666	\$ 59	\$ 1,286	\$ 930		\$ 9,442
Non-Revenue Fleet	\$ 552	\$ 230	\$ 129	\$ 167	\$ 84		\$ 1,163
Rolling Stock	\$ 7,342	\$ 3,060	\$ 1,716	\$ 2,226	\$ 1,113	\$ 26,144	\$ 41,600
Signals	\$ 6,049	\$ 1,015	\$ 569	\$ 943	\$ 883		\$ 9,460
Structures	\$ 4,089	\$ 1,225					\$ 5,314
Track	\$ 12,939	\$ 539	\$ 302	\$ 2,248	\$ 1,896	\$ 812	\$ 18,736
<b>Total All-Share</b>	<b>\$ 12,977</b>	<b>\$ 5,409</b>	<b>\$ 3,033</b>	<b>\$ 3,934</b>	<b>\$ 1,967</b>	<b>\$ 26,144</b>	<b>\$ 53,464</b>
<b>Total Line-Specific</b>	<b>\$ 26,802</b>	<b>\$ 1,936</b>	<b>\$ 50</b>	<b>\$ 3,340</b>	<b>\$ 3,155</b>	<b>\$ 812</b>	<b>\$ 36,095</b>
<b>Proposed Rotem Repayments</b>	<b>\$ 5,409</b>	<b>\$ (6,059)</b>		<b>\$ 650</b>			<b>\$ -</b>
<b>Grand Total</b>	<b>\$ 45,189</b>	<b>\$ 1,286</b>	<b>\$ 3,083</b>	<b>\$ 7,924</b>	<b>\$ 5,122</b>	<b>\$ 26,956</b>	<b>\$ 89,559</b>

The Capital Rehabilitation authorization request for FY18 was identified as necessary investments to maintain a state of good repair. These projects total \$89.6 million and are represented in summary in Attachment F, and in detail in Attachment G.

Additional Capital Rehabilitation projects shown for FY19 and FY20 cover many other projects critical to the safe operation of the railroad. Over a number of years, a significant backlog of deferred maintenance has accrued, creating the large numbers shown in the FY19 Rehabilitation Project Listing (Attachment K) and FY20 Rehabilitation (Attachment L) project listing.

#### Preliminary New Capital Request for FY18

<b>FY18 Capital Project Allocation by Funding Source</b>							(000s)
<b>Asset / Funding Source</b>	<b>Metro</b>	<b>OCTA</b>	<b>RCTC</b>	<b>SBCTA</b>	<b>VCTC</b>	<b>Other</b>	<b>Total</b>
Business Systems	\$ 99	\$ 41	\$ 23	\$ 30	\$ 15		\$ 208
Track	\$ 950	\$ 396	\$ 222	\$ 288	\$ 144		\$ 2,000
PTC Systems	\$ 1,458	\$ 608	\$ 341	\$ 442	\$ 221		\$ 3,070
<b>Total All-Share</b>	<b>\$ 2,507</b>	<b>\$ 1,045</b>	<b>\$ 586</b>	<b>\$ 760</b>	<b>\$ 380</b>		<b>\$ 5,278</b>
<b>Grand Total</b>	<b>\$ 2,507</b>	<b>\$ 1,045</b>	<b>\$ 586</b>	<b>\$ 760</b>	<b>\$ 380</b>		<b>\$ 5,278</b>

The New Capital authorization request for FY18 was identified as necessary for safe and efficient rail operations. These projects total \$5.3 million and are represented in summary in Attachment F, and in detail in Attachment H.

New Capital projects in FY19 and FY20 are shown on Attachments M and N.

The attachments as listed below provide additional detail on the FY18 Preliminary Capital Budget request.

- Attachment F (NEW): Presents a new Project Request Summary Dashboard displaying a summary of requests by asset type, funding by type and by Member Agency, a visual depiction of the Request Refinement Process, and a map showing the effected lines.
- Attachment G: Presents the Detailed FY18 Preliminary Rehabilitation Request, listing each project by Sub Division, showing condition, system impact, asset type, with a description and requested funding by Member Agency.
- Attachment H: Presents the Detailed FY18 Preliminary New Capital Request listing each Project and requested funding by Member Agency.
- Attachment O: Presents the Detailed listing of projects of Rehabilitation projects authorized in previous years which are still in process, and thus Carried Forward.
- Attachment P: Presents the Detailed listing of projects of New Capital projects authorized in previous years which are still in process, and thus Carried Forward.

#### Operating and Capital Budget Projections for FY19 and FY20

The FY18 Preliminary Budget will be transmitted to Member Agencies for consideration. The FY19 and FY20 projected budgets are included in this report for informational purposes only. The FY19 and FY20 Projected Operating Budgets are based upon known contractual changes in combination


with a projected inflation factor (3%) applied to all other costs. FY19 and FY20 Capital Projects are based on specific projects, identified, but beyond our capacity to initiate in FY18. Attachments for FY19 and FY20 Projections are as listed below:

- Attachment I: Presents the Detailed FY19 Forecasted Annual Operating Budget by Cost Component.
- Attachment J: Presents the Detailed FY20 Forecasted Annual Operating Budget by Cost Component.
- Attachment K: Presents the Detailed FY19 Forecasted Rehabilitation Project Listing.
- Attachment L: Presents the Detailed FY20 Forecasted Rehabilitation Project Listing
- Attachment M: Presents the Detailed FY19 Forecasted New Capital Project Listing
- Attachment N: Presents the Detailed FY20 Forecasted New Capital Project Listing

### **Next Steps**

- May/June: Staff present to Member Agencies Committee and Boards as requested
- June: FY18 Proposed Budget to SCRRA Board for Adoption

Thank you for your ongoing support and active participation in the development of the FY18 Preliminary Budget. SCRRA staff remain available to address any questions or concerns you have as we anticipate adoption of the budget by the SCRRA Board of Directors in June 2017. If you have any comments or concerns, please do not hesitate to contact me directly at (213) 452-0269. You may also contact Ronnie Campbell, Chief Financial Officer at 213-452-0285.



PROJECT PROPOSALS FOR FY2018 REHABILITATION BUDGET - TIER A

Attachment G

PROJECT #	SUBDIVISION	CONDITION	IMPACT	ASSET TYPE	PROJECT	TOTAL	Metro	OCTA	RCTC	SBCTA	VCTC <sup>(2)</sup>	OTHER <sup>(1)</sup>
1231	Olive	Marginal	High	Communications	Wayside Communication System Replacment Parts - Olive	\$75,000		\$75,000				
	Olive Total					\$75,000	\$0	\$75,000	\$0	\$0	\$0	\$0

1229	Orange	Marginal	High	Communications	Wayside Communication System Replacement Parts - Orange	\$75,000		\$75,000				
1115	Orange	Worn	High	Structures	Orange Sub Struct	\$1,225,000		\$1,225,000				
334	Orange	Worn	High	Grade Crossing	Grade Crossing Rehab - Rehab 2 Locations per Year - Orange Sub	\$560,560		\$560,560				
	<b>Orange Total</b>					<b>\$1,860,560</b>	<b>\$0</b>	<b>\$1,860,560</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
1164	San Gabriel 60 / 40	Worn	High	Grade Crossing	Grade Crossing Rehab - 2 Locations per Year - SG Sub	\$548,600	\$329,160			\$219,440		
1217	San Gabriel 60 / 40	Worn	High	Track	San Gabriel Track Rehabilitation	\$2,110,250	\$1,266,150			\$844,100		
1287	San Gabriel 60 / 40	Worn	High	Grade Crossing	Rehabilitation of grade crossings on the San Gabriel Subdivision in Los Angeles County	\$1,965,220	\$1,179,132			\$786,088		
1235	San Gabriel 60 / 40	Marginal	High	Communications	Wayside Communication System Replacement Parts - San Gabriel - LA County	\$100,000	\$60,000			\$40,000		
1233	San Gabriel 60 / 40	Marginal	High	Communications	Wayside Communication System Replacement Parts - San Gabriel - SB County	\$75,000	\$45,000			\$30,000		
308	San Gabriel 60 / 40	Worn	High	Grade Crossing	Grade Crossing Rehab - SG Sub	\$509,600	\$305,760			\$203,840		
178	San Gabriel 60 / 40	Worn	High	Track	Replacement of the turnouts on the San Gabriel Subdivision in San Bernardino County (see note 1)	\$2,341,900	\$878,940			\$585,960		\$844,000
317	San Gabriel 60 / 40	Worn	High	Signals	Rehab Worn or Defective Cables - SG Sub	\$511,940	\$307,164			\$204,776		
162	San Gabriel 60 / 40	Worn	High	Track	Replacement of the turnouts on the San Gabriel Subdivision in Los Angeles County	\$1,000,324	\$600,194			\$400,130		
	<b>San Gabriel 60 / 40 Total</b>					<b>\$9,162,834</b>	<b>\$4,971,500</b>	<b>\$0</b>	<b>\$0</b>	<b>\$3,314,334</b>	<b>\$0</b>	<b>\$844,000</b>
1228	San Jacinto (PVL)	Marginal	High	Communications	Wayside Communication System Replacement Parts - PVL	\$50,000			\$50,000			
	<b>San Jacinto (PVL) Total</b>					<b>\$50,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$50,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
319	Valley	Worn	High	Signals	Signal System Rehab - Rehab Logic Controllors and Supporting Equipment - Valley Sub	\$1,131,460	\$1,131,460					
1216	Valley	Worn	High	Track	Valley Track Rehabilitation	\$4,065,250	\$4,065,250					
1162	Valley	Worn	High	Signals	Signal System Rehab - Replace EL1A Logic Controller at CP Harold	\$335,940	\$335,940					
1276	Valley	Worn	High	Structures	Valley Sub Structctures (bridge 25.71 & 8 culverts)	\$3,638,713	\$3,638,713					
1288	Valley	Worn	High	Grade Crossing	Rehabilitation of grade crossings on the Valley Subdivision in Los Angeles County	\$1,048,700	\$1,048,700					
352	Valley	Worn	High	Signals	Rehab Worn or Defective Cables - Valley Sub	\$511,940	\$511,940					
1055	Valley	Marginal	High	Facilities	Replace Expand Lancaster Crew Base	\$950,000	\$950,000					
1240	Valley	Marginal	High	Communications	Wayside Communication System Replacement Parts - Valley	\$100,000	\$100,000					
1161	Valley	Worn	High	Signals	Replace Temporary AC Power Feed with Permanent Solar System - Valley Sub	\$307,560	\$307,560					
1163	Valley	Worn	High	Signals	Signal System Rehab - Replace Track Turnout and Power Switch at CP Harold	\$505,560	\$505,560					
318	Valley	Worn	High	Grade Crossing	Grade Crossing Rehab - 2 Locations per Year - Valley Sub	\$557,480	\$557,480					
	<b>Valley Total</b>					<b>\$13,152,603</b>	<b>\$13,152,603</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>





PROJECT PROPOSALS FOR FY2018 REHABILITATION BUDGET - TIER A

Attachment G

PROJECT #	SUBDIVISION	CONDITION	IMPACT	ASSET TYPE	PROJECT	TOTAL	Metro	OCTA	RCTC	SBCTA	VCTC <sup>(2)</sup>	OTHER <sup>(1)</sup>
1099	Valley, Ventura - LA County	Worn	High	Track	Station Pedestrian Crossing Rehab	\$250,800	\$250,800					
	Valley, Ventura - LA County Total					\$250,800	\$250,800	\$0	\$0	\$0	\$0	\$0
305	Ventura - LA County	Worn	High	Grade Crossing	Grade Crossing Rehab 2 Locations per Year	\$531,800	\$531,800					
1218	Ventura - LA County	Worn	High	Track	Ventura (LA) Track Rehabilitation	\$1,535,250	\$1,535,250					
1278	Ventura - LA County	Worn	Low	Structures	Ventura Sub (LA CO) Struct	\$450,360	\$450,360					
1160	Ventura - LA County	Worn	High	Signals	Rehab Signal and Grade Crossing Cables - Ven Sub	\$513,480	\$513,480					
1283	Ventura - LA County	Worn	High	Track	Ventura (LA) Tie Rehabilitation	\$3,010,440	\$3,010,440					
1244	Ventura - LA County	Marginal	High	Communications	Wayside Communication System Replacement Parts - Ventura - LA County	\$50,000	\$50,000					
164	Ventura - LA County	Worn	High	Grade Crossing	Rehabilitation of grade crossings on the Ventura Subdivision in Los Angeles County	\$2,296,800	\$2,296,800					
	Ventura - LA County Total					\$8,388,130	\$8,388,130	\$0	\$0	\$0	\$0	\$0
1159	Ventura - VC County	Worn	High	Signals	Rehab Signal and Grade Crossing Cables - Ven Sub	\$513,480					\$513,480	
212	Ventura - VC County	Marginal	High	Track	Replace Ties Arroyo Simi Bridges - Ventura Sub VN Cty - FY17	\$1,025,750					\$1,025,750	
1282	Ventura - VC County	Worn	High	Track	Ventura (VC) Tie Rehabilitation	\$674,000					\$674,000	
1246	Ventura - VC County	Marginal	High	Communications	Wayside Communication System Replacement Parts - Ventura - Ventura County	\$50,000					\$50,000	
307	Ventura - VC County	Worn	High	Grade Crossing	Grade Crossing Rehab - 2 Locations per Year - Ven Sub	\$548,600					\$548,600	
165	Ventura - VC County	Worn	High	Grade Crossing	Rehabilitation of grade crossings on the Ventura Subdivision in Ventura County	\$342,980					\$342,980	
	Ventura - VC County Total					\$3,154,810	\$0	\$0	\$0	\$0	\$3,154,810	\$0
1274	All	Worn	High	Business Systems	Perform State of Good Repair Engineering, Track Measurements, and Prioritization to support and populate the annual SOGR/Rehab/TAM Program.	\$750,000	\$356,250	\$148,500	\$83,250	\$108,000	\$54,000	
247	All	Worn	High	Track	Rail Grinding Systemwide	\$840,400	\$399,190	\$166,399	\$93,284	\$121,018	\$60,509	
1223	All	Worn	High	Signals	SCRRA Production Backoffice Systems Upgrades and Testing Support	\$597,500	\$283,813	\$118,305	\$66,323	\$86,040	\$43,020	
485	All	Worn	High	Non-Revenue Fleet	MOW VEHICLE REPLACEMENT	\$1,163,100	\$552,473	\$230,294	\$129,104	\$167,486	\$83,743	
1058	All	Worn	High	Facilities	Replace Car shop Jacks at CMF	\$279,620	\$132,820	\$55,365	\$31,038	\$40,265	\$20,133	
1039	All	Worn	Low	Facilities	REPLACE PUBLIC ADDRESS SYSTEM	\$119,700	\$56,858	\$23,701	\$13,287	\$17,237	\$8,618	
1222	All	Worn	High	Signals	Backoffice Hardware & Software Replacement (DOC & MOC)	\$1,130,000	\$536,750	\$223,740	\$125,430	\$162,720	\$81,360	
1247	All	Worn	High	Rolling Stock	PTC On-Board Software updates, hardware repairs PTC on-board equipment Systems on 57 cab cars and 52 locomotives.	\$1,100,000	\$522,500	\$217,800	\$122,100	\$158,400	\$79,200	
1221	All	Worn	High	Signals	SCRRA Positive Train Control Lab Systems Support and Testing	\$947,500	\$450,063	\$187,605	\$105,173	\$136,440	\$68,220	
254 <sup>(3)</sup>	All	Marginal	High	Rolling Stock	Bombardier (Sentinel) passenger rail cars Midlife Overhaul on 28 cars (see note 3)	\$40,500,000	\$6,819,206	\$2,842,532	\$1,593,541	\$2,067,296	\$1,033,648	\$26,143,776
1041	All	Marginal	High	Business Systems	Trapeze Maintenance Management System Software Upgrade	\$992,775	\$471,568	\$196,569	\$110,198	\$142,960	\$71,480	
1091	All	Worn	High	Business Systems	Condition Based Maintenance Tools, PC and Analysis Software	\$76,125	\$36,159	\$15,073	\$8,450	\$10,962	\$5,481	

PROJECT PROPOSALS FOR FY2018 REHABILITATION BUDGET - TIER A												Attachment G
PROJECT #	SUBDIVISION	CONDITION	IMPACT	ASSET TYPE	PROJECT	TOTAL	Metro	OCTA	RCTC	SBCTA	VCTC <sup>(2)</sup>	OTHER <sup>(1)</sup>
	All Total					\$48,496,720	\$10,617,648	\$4,425,883	\$2,481,177	\$3,218,824	\$1,609,412	\$26,143,776
1155	River	Worn	High	Signals	Replace Worn Electric Switch Lock at 140.80 West Bank	\$100,600	\$47,785	\$19,919	\$11,167	\$14,486	\$7,243	
312	River	Worn	High	Signals	Phase 1 - Signal System Rehab - CP Terminal Rehab Turnouts 3X, 5, 5X, 7, 7X and Power Switch Machines	\$1,000,000	\$475,000	\$198,000	\$111,000	\$144,000	\$72,000	
1167	River	Worn	High	Signals	Signal System Rehab - Replace EL1A Logic Controller at CP Capital	\$335,940	\$159,572	\$66,516	\$37,289	\$48,375	\$24,188	
1285	River	Worn	High	Track	LA Union Station Track Rehabilitation	\$1,882,000	\$893,950	\$372,636	\$208,902	\$271,008	\$135,504	
311	River	Worn	High	Signals	Signal System Rehab - River Sub	\$1,017,030	\$483,089	\$201,372	\$112,890	\$146,452	\$73,226	
1237	River	Marginal	High	Communications	Wayside Communication System Replacement Parts - River	\$100,000	\$47,500	\$19,800	\$11,100	\$14,400	\$7,200	
310	River	Worn	High	Grade Crossing	Grade Crossing Rehab - 2 grade crossings - River Sub	\$531,800	\$252,605	\$105,296	\$59,030	\$76,579	\$38,290	
	River Total					\$4,967,370	\$2,359,501	\$983,539	\$551,378	\$715,301	\$357,651	\$0
					TOTAL ALL-SHARE	\$53,464,090	\$12,977,149	\$5,409,422	\$3,032,555	\$3,934,125	\$1,967,063	\$26,143,776
					TOTAL LINE-SPECIFIC	\$36,094,737	\$26,763,033	\$1,935,560	\$50,000	\$3,314,334	\$3,154,810	\$844,000
					TIER A TOTAL	\$89,558,827	\$39,740,183	\$7,344,982	\$3,082,555	\$7,248,459	\$5,121,873	\$26,987,776
					Proposed Rotem Repayments <sup>(4)</sup>	\$0	\$5,409,422	(\$6,059,016)	\$0	\$649,594	\$0	\$0
					NEW TIER A TOTAL	\$89,558,827	\$45,149,605	\$1,285,966	\$3,082,555	\$7,898,053	\$5,121,873	\$26,987,776

**BUDGET & FUNDING NOTES:**

- (1) San Gabriel sub turnout replacement project # 178 contains \$812K of State TCRP funds that SCRRA plans to apply for. If the funds are not awarded, LA Metro's funding requirement increases by \$487,200 and SBCTA's funding requirement increases by \$324,800.
- (2) VCTC is likely to have approximately \$2.5M available for FY 2018 Rehabilitation projects. If that is the case, \$2.6M will have be be cut from VCTC's share of the budget.
- (3) Other funds for Project # 254 (Bombardier Sentinel Car Overhaul) consist of \$20.2M of Prop 1A, \$4.77M of PTMISEA funds and \$1.163M of insurance settlement funds.
- (4) Systemwide projects are needed for the Rotem repayments to take place. OCTA's share of Systemwide projects proposed to be paid by LA Metro under the Rotem Settlement MOU.
- (5) \$200,000 in funds have been identified on existing FTA grant 5309 for OCTA

**Summary of the Revenues, Expenses, and Subsidy**

(\$000s)	TOTAL FY17-18	Metro Share	OCTA Share	RCTC Share	SBCTA Share	VCTC Share
<b>Revenues</b>						
Gross Farebox	\$85,159	\$42,031	\$22,453	\$7,759	\$10,512	2,404
Dispatching	2,125	1,130	684	6	55	250
Other Operating	12	6	3	1	2	-
Maintenance-of-Way	13,350	8,052	2,531	667	1,556	544
<b>Total Revenues FY18 Budget</b>	<b>\$100,646</b>	<b>\$51,219</b>	<b>\$25,671</b>	<b>\$8,433</b>	<b>\$12,124</b>	<b>\$3,199</b>
<b>Expenses</b>						
Train Operations & Services	\$143,486	\$72,153	\$33,859	\$15,860	\$15,429	6,185
Maintenance-of-Way	41,607	22,046	8,446	3,200	5,458	2,458
Administration & Services	40,289	19,261	7,314	5,736	4,172	3,806
Insurance	17,663	9,418	4,290	1,342	2,026	586
<b>Total Expense FY18 Budget</b>	<b>\$243,045</b>	<b>\$122,877</b>	<b>\$53,910</b>	<b>\$26,139</b>	<b>\$27,084</b>	<b>\$13,035</b>
<b>Total FY18 Budget Subsidy by Member</b>	<b>\$142,399</b>	<b>\$71,659</b>	<b>\$28,239</b>	<b>\$17,705</b>	<b>\$14,960</b>	<b>\$9,836</b>
<b>FY 2016-17 Budget Subsidy by Member</b>	<b>\$141,989</b>	<b>\$71,998</b>	<b>\$28,294</b>	<b>\$17,345</b>	<b>\$14,841</b>	<b>\$9,511</b>
Over/(Under) Last Year Budget	410	(340)	(56)	361	119	325
Percent of Change	0.3%	( 0.5%)	( 0.2%)	2.1%	0.8%	3.4%

**SOUTHERN CALIFORNIA REGIONAL RAIL AUTHORITY**  
**FISCAL YEAR 2017-18 REVISED PRELIMINARY BUDGET**

**Attachment B**

**Comparative Annual Operating Budget**  
**by Cost Component by Year**

(\$000s)	FY 13-14	FY 14-15	FY 15-16	FY 16-17	FY 17-18 Preliminary Budget	FY16-17 Budget vs FY17-18 Budget	
	Actual	Actual	Actual	Budget		Change	%
<b>Operating Revenue</b>							
Farebox Revenue	85,673	83,134	83,652	83,556	83,897	341	0.4%
Metro Fare Reduction Subsidy			873	1,025	1,262	236	23.0%
<b>Subtotal-Pro Forma FareBox</b>	<b>85,673</b>	<b>83,134</b>	<b>84,524</b>	<b>84,582</b>	<b>85,159</b>	<b>577</b>	<b>0.7%</b>
Dispatching	2,480	2,493	2,120	2,590	2,125	(465)	(18.0%)
Other Revenues	319	372	429	12	12	-	0.0%
MOW Revenues	12,922	13,207	12,434	14,641	13,350	(1,291)	(8.8%)
<b>Subtotal Operating Revenue</b>	<b>101,394</b>	<b>99,207</b>	<b>99,507</b>	<b>101,825</b>	<b>100,646</b>	<b>(1,179)</b>	<b>(1.2%)</b>
<b>Operating Expenses</b>							
<b><u>Operations &amp; Services</u></b>							
Train Operations	37,043	40,569	41,887	43,942	44,642	701	1.6%
Equipment Maintenance	28,542	32,649	33,751	37,581	36,691	(890)	(2.4%)
Fuel	26,161	24,454	17,381	22,772	19,656	(3,116)	(13.7%)
Non-Scheduled Rolling Stock Repairs	2	2	136	100	100	-	0.0%
Operating Facilities Maintenance	1,056	1,120	1,149	1,418	1,652	234	16.5%
Other Operating Train Services	264	293	239	496	470	(26)	(5.3%)
Rolling Stock Lease	-	105	638	370	151	(219)	(59.2%)
Security - Sheriff	4,482	5,136	4,912	5,511	5,845	334	6.1%
Security - Guards	2,170	1,591	1,685	2,000	2,837	837	41.9%
Supplemental Additional Security	763	81	-	690	690	-	0.0%
Public Safety Program	157	177	217	320	277	(44)	(13.6%)
Passenger Relations	1,622	1,639	1,748	2,069	1,795	(274)	(13.2%)
TVM Maintenance/Revenue Collection	5,343	5,984	6,554	7,495	7,510	15	0.2%
Marketing	949	949	1,137	1,220	1,364	144	11.8%
Media & External Communications	226	234	343	396	443	47	11.9%
Utilities/Leases	3,180	2,622	2,046	2,778	3,289	512	18.4%
Transfers to Other Operators	6,469	7,081	6,488	6,577	6,592	14	0.2%
Amtrak Transfers	917	800	1,287	1,400	2,177	777	55.5%
Station Maintenance	1,190	1,121	1,418	1,640	1,687	47	2.9%
Rail Agreements	4,992	4,997	5,207	5,379	5,366	(12)	(0.2%)
<b>Subtotal Operations &amp; Services</b>	<b>125,528</b>	<b>131,602</b>	<b>128,223</b>	<b>144,153</b>	<b>143,234</b>	<b>(919)</b>	<b>(0.6%)</b>
<b><u>Maintenance-of-Way</u></b>							
MoW - Line Segments	28,152	33,043	37,936	38,102	40,606	2,504	6.6%
MoW - Extraordinary Maintenance	1,322	1,235	1,518	1,490	1,001	(489)	(32.8%)
<b>Subtotal Maintenance-of-Way</b>	<b>29,475</b>	<b>34,278</b>	<b>39,453</b>	<b>39,592</b>	<b>41,607</b>	<b>2,015</b>	<b>5.1%</b>
<b><u>Administration &amp; Services</u></b>							
Ops Salaries & Fringe Benefits	11,127	11,535	12,892	14,019	13,961	(59)	(0.4%)
Ops Non-Labor Expenses	3,424	3,651	5,322	5,384	7,374	1,990	37.0%
Indirect Administrative Expenses	12,679	11,791	12,417	15,507	15,870	364	2.3%
Ops Professional Services	464	969	2,019	1,816	3,084	1,268	69.9%
<b>Subtotal Admin &amp; Services</b>	<b>27,694</b>	<b>27,946</b>	<b>32,651</b>	<b>36,726</b>	<b>40,289</b>	<b>3,563</b>	<b>9.7%</b>
<b>Contingency (Non-Train Ops)</b>	<b>21</b>	<b>14</b>	<b>47</b>	<b>502</b>	<b>252</b>	<b>(250)</b>	<b>(49.8%)</b>
<b>Total Operating Expenses</b>	<b>182,718</b>	<b>193,839</b>	<b>200,374</b>	<b>220,973</b>	<b>225,382</b>	<b>4,409</b>	<b>2.0%</b>

**Insurance Expense/(Revenue)**

Liability/Property/Auto	14,252	12,597	11,634	12,588	12,475	(113)	(0.9%)
Claims / SI	1,457	1,884	3,876	3,000	4,000	1,000	33.3%
Claims Administration	743	1,145	421	1,198	1,187	(11)	(0.9%)
PLPD Revenue	(178)	(1)	(22)	-	-	-	N/A
<b>Net Insurance Expense</b>	<b>16,273</b>	<b>15,625</b>	<b>15,909</b>	<b>16,787</b>	<b>17,663</b>	<b>876</b>	<b>5.2%</b>
<b>Total Expense Before BNSF</b>	<b>198,991</b>	<b>209,464</b>	<b>216,283</b>	<b>237,760</b>	<b>243,045</b>	<b>5,285</b>	<b>2.2%</b>
<b>Loss Before BNSF</b>	<b>(97,598)</b>	<b>(110,257)</b>	<b>(116,776)</b>	<b>(135,934)</b>	<b>(142,399)</b>	<b>(6,465)</b>	<b>4.8%</b>

**Member Subsidies**

Operations	83,052	92,252	109,003	119,148	124,736	5,589	4.7%
Insurance	17,302	17,678	18,079	16,787	17,663	876	5.2%
<b>Member Subsidies - Normal Ops</b>	<b>100,354</b>	<b>109,930</b>	<b>127,082</b>	<b>135,934</b>	<b>142,399</b>	<b>6,465</b>	<b>4.8%</b>
<b>Surplus / (Deficit) Before BNSF</b>	<b>2,757</b>	<b>(328)</b>	<b>10,306</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>N/A</b>

(\$000s)						FY16-17 Budget vs FY17-18	
	FY 13-14	FY 14-15	FY 15-16	FY 16-17	FY 17-18 Preliminary	Budget	
	Actual	Actual	Actual	Budget	Budget	Change	%

#### BNSF LEASE LOCOMOTIVE COSTS

Lease cost Inc. ship	-	-	4,449	2,525	-	(2,525)	(100.0%)
Major Component Parts	-	-	720	-	-	-	N/A
Labor for Maintenance	-	-	2,597	900	-	(900)	(100.0%)
Additional Fuel	-	-	1,341	1,230	-	(1,230)	(100.0%)
Wheel truing, Software Mods, Brakes	-	-	37	-	-	-	N/A
Temp Facility Mods	-	-	136	-	-	-	N/A
PTC Costs	-	-	1,116	1,399	-	(1,399)	(100.0%)
Contingency	-	-	-	-	-	-	N/A
<b>Total BNSF Lease Loco Expenses</b>	-	-	10,397	6,055	-	(6,055)	(100.0%)
<b>Member Subsidies - BNSF Lease</b>	-	-	11,545	6,055	-	(6,055)	(100.0%)
<b>Surplus / (Deficit) - BNSF Lease</b>	-	-	1,148	-	-	-	N/A

<b>Total Expenses</b>	<b>198,991</b>	<b>209,464</b>	<b>226,680</b>	<b>243,814</b>	<b>243,045</b>	<b>(769)</b>	<b>(0.3%)</b>
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<b>Net Loss</b>	<b>(97,598)</b>	<b>(110,257)</b>	<b>(127,173)</b>	<b>(141,989)</b>	<b>(142,399)</b>	<b>(410)</b>	<b>0.3%</b>
<b>All Member Subsidies</b>	<b>100,354</b>	<b>109,930</b>	<b>138,627</b>	<b>141,989</b>	<b>142,399</b>	<b>410</b>	<b>0.3%</b>
<b>Surplus / (Deficit)</b>	<b>2,757</b>	<b>(328)</b>	<b>11,454</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>N/A</b>

Numbers may not foot due to rounding.

**SOUTHERN CALIFORNIA REGIONAL RAIL AUTHORITY**  
**FISCAL YEAR 2017-2018 REVISED PRELIMINARY BUDGET**

**ATTACHMENT C**

**FY18 Annual Operating Budget**  
**by Cost Component By Member Agency**

(\$000s)	Total FY17-18	Metro	OCTA	RCTC	SBCTA	VCTC
<b>Operating Revenue</b>						
Farebox Revenue	83,897	40,769	22,453	7,759	10,512	2,404
Metro Fare Reduction Subsidy	1,262	1,262	-	-	-	-
<b>Subtotal-Pro Forma FareBox</b>	<b>85,159</b>	<b>42,031</b>	<b>22,453</b>	<b>7,759</b>	<b>10,512</b>	<b>2,404</b>
Dispatching	2,125	1,130	684	6	55	250
Other Revenues	12	6	3	1	2	
MOW Revenues	13,350	8,052	2,531	667	1,556	544
<b>Subtotal Operating Revenue</b>	<b>100,646</b>	<b>51,219</b>	<b>25,671</b>	<b>8,433</b>	<b>12,124</b>	<b>3,199</b>
<b>Operating Expenses</b>						
<b><u>Operations &amp; Services</u></b>						
Train Operations	44,642	23,764	10,028	4,546	4,683	1,622
Equipment Maintenance	36,691	18,385	8,591	3,799	4,300	1,616
Fuel	19,656	10,094	4,951	1,960	2,020	631
Non-Scheduled Rolling Stock Repairs	100	53	24	8	11	3
Operating Facilities Maintenance	1,652	881	401	126	189	55
Other Operating Train Services	470	222	81	70	48	49
Rolling Stock Lease	151	72	30	17	22	11
Security - Sheriff	5,845	3,098	1,180	843	601	122
Security - Guards	2,837	1,338	489	424	290	296
Supplemental Additional Security	690	341	182	63	85	19
Public Safety Program	277	130	48	41	28	29
Passenger Relations	1,795	899	461	146	230	58
TVM Maintenance/Revenue Collection	7,510	3,129	1,650	1,252	1,024	454
Marketing	1,364	703	330	109	176	45
Media & External Communications	443	209	76	66	45	46
Utilities/Leases	3,289	1,551	567	492	336	343
Transfers to Other Operators	6,592	3,535	1,577	521	731	228
Amtrak Transfers	2,177	694	1,375	-	-	108
Station Maintenance	1,687	1,036	240	108	226	78
Rail Agreements	5,366	1,902	1,533	1,231	356	344
<b>Subtotal Operations &amp; Services</b>	<b>143,234</b>	<b>72,034</b>	<b>33,816</b>	<b>15,823</b>	<b>15,403</b>	<b>6,159</b>
<b><u>Maintenance-of-Way</u></b>						
MoW - Line Segments	40,606	21,458	8,317	3,103	5,350	2,378
MoW - Extraordinary Maintenance	1,001	587	129	97	108	80
<b>Subtotal Maintenance-of-Way</b>	<b>41,607</b>	<b>22,046</b>	<b>8,446</b>	<b>3,200</b>	<b>5,458</b>	<b>2,458</b>
<b><u>Administration &amp; Services</u></b>						
Ops Salaries & Fringe Benefits	13,961	6,581	2,417	2,082	1,428	1,452
Ops Non-Labor Expenses	7,374	3,745	1,630	818	806	375
Indirect Administrative Expenses	15,870	7,481	2,736	2,374	1,622	1,657
Ops Professional Services	3,084	1,454	532	461	315	322
<b>Subtotal Admin &amp; Services</b>	<b>40,289</b>	<b>19,261</b>	<b>7,314</b>	<b>5,736</b>	<b>4,172</b>	<b>3,806</b>
<b><u>Contingency (Non-Train Ops)</u></b>	<b>252</b>	<b>119</b>	<b>43</b>	<b>38</b>	<b>26</b>	<b>26</b>
<b>Total Operating Expenses</b>	<b>225,382</b>	<b>113,460</b>	<b>49,620</b>	<b>24,796</b>	<b>25,058</b>	<b>12,448</b>
<b>Insurance Expense/(Revenue)</b>						
Liability/Property/Auto	12,475	6,652	3,030	948	1,431	414
Claims / SI	4,000	2,133	972	304	459	133
Claims Administration	1,187	633	288	90	136	39
PLPD Revenue	-	-	-	-	-	-
<b>Net Insurance Expense</b>	<b>17,663</b>	<b>9,418</b>	<b>4,290</b>	<b>1,342</b>	<b>2,026</b>	<b>586</b>
<b>Total Expense Before BNSF</b>	<b>243,045</b>	<b>122,877</b>	<b>53,910</b>	<b>26,139</b>	<b>27,084</b>	<b>13,035</b>
<b>Loss Before BNSF</b>	<b>(142,399)</b>	<b>(71,659)</b>	<b>(28,239)</b>	<b>(17,705)</b>	<b>(14,960)</b>	<b>(9,836)</b>

**FY18 Annual Operating Budget**  
**by Cost Component By Member Agency**

(\$000s)	Total FY17-18	Metro	OCTA	RCTC	SBCTA	VCTC
<b>Member Subsidies</b>						
Operations	124,736	62,241	23,949	16,363	12,934	9,250
Insurance	17,663	9,418	4,290	1,342	2,026	586
<b>Member Subsidies - Normal Ops</b>	<b>142,399</b>	<b>71,659</b>	<b>28,239</b>	<b>17,705</b>	<b>14,960</b>	<b>9,836</b>
<b>Surplus / (Deficit) Before BNSF</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

<b>TOTAL EXPENSE</b>	<b>243,045</b>	<b>122,877</b>	<b>53,910</b>	<b>26,139</b>	<b>27,084</b>	<b>13,035</b>
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<b>Net Loss</b>	<b>(142,399)</b>	<b>(71,659)</b>	<b>(28,239)</b>	<b>(17,705)</b>	<b>(14,960)</b>	<b>(9,836)</b>
<b>Total Member Subsidies</b>	<b>142,399</b>	<b>71,659</b>	<b>28,239</b>	<b>17,705</b>	<b>14,960</b>	<b>9,836</b>
<b>Surplus / (Deficit)</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

**SOUTHERN CALIFORNIA REGIONAL RAIL AUTHORITY  
FISCAL YEAR 2017-18 PRELIMINARY BUDGET**

**Attachment D**

**Change Drivers**

**FY17 Adopted Budget vs. FY18 REVISED Preliminary Budget**

(millions')

<b>FY 2017 Amended Adopted Budget</b>	<b>\$</b>	<b>243.8</b>	
<b>FY 2018 Preliminary Budget</b>	<b>\$</b>	<b><u>243.0</u></b>	
<b>Total Operational Expense Budget Increase</b>	<b>\$</b>	<b><u>(0.8)</u></b>	<b>(0.3%)</b>

**CHANGE DRIVERS:**

Parts for Rolling Stock Repair	\$	(2.7)
Fuel	\$	(3.1)
Big Five Train Operations	\$	2.8
Guards	\$	0.8
Big Five MOW	\$	1.5
WABTEC License	\$	2.0
IT Projects	\$	0.4
Contract & FRA Training Require	\$	0.9
Retail Ticket Consult	\$	0.4
Insurance Deductible (Oxnard incident)	\$	1.0
BNSF decrease	\$	(6.1)
Position reduction	\$	(0.3)
2% COLA/ 3% Merit (Operations only)	\$	0.8
LOSSAN Increase	\$	<u>0.8</u>
	\$	<u>(0.8)</u>

*Numbers may not foot due to rounding.*



Net Local Subsidy by Member Agency

	Total Net Local Subsidy	Metro Share	OCTA share	RCTC Share	SBCTA Share	VCTC Share
FY 15 ACTUAL	\$110,257,381	\$59,029,731	\$22,251,609	\$9,387,630	\$11,605,317	\$7,983,094
FY16 ACTUAL	\$127,172,992	\$66,468,865	\$24,974,739	\$13,799,263	\$13,057,846	\$8,872,279
FY17 BUDGET	\$141,989,009	\$71,998,203	\$28,294,475	\$17,344,511	\$14,840,903	\$9,510,917
FY18 BUDGET	\$142,399,000	\$71,658,558	\$28,238,881	\$17,705,400	\$14,959,772	\$9,836,207

YEAR OVER YEAR CHANGE

	Total Net Local Subsidy	Metro Share	OCTA share	RCTC Share	SBCTA Share	VCTC Share
FY15 vs FY16						
\$ Increase	\$16,915,611	\$7,439,134	\$2,723,130	\$4,411,633	\$1,452,529	\$889,185
% Increase	15.3%	12.6%	12.2%	47.0%	12.5%	11.1%
FY16 vs FY17						
\$ Increase	\$14,816,017	\$5,529,338	\$3,319,736	\$3,545,248	\$1,783,057	\$638,638
% Increase	11.7%	8.3%	13.3%	25.7%	13.7%	7.2%
FY17 vs FY18						
\$ Increase	\$409,809	(\$339,645)	(\$55,594)	\$360,888	\$118,869	\$325,291
% Increase	0.3%	(0.5%)	(0.2%)	2.1%	0.8%	3.4%

Analysis of 17 vs 18 variance:

(millions')

Revenue	Decrease in Revenue (Primarily Saugus MOW Revenue from UPRR)	\$	1.5
	Increase -Sunday Service on Holidays	\$	(0.3)
Expense	Parts for Rolling Stock Repair	\$	(2.7)
	Fuel	\$	(3.1)
	Big Five Train Operations	\$	2.8
	Guards	\$	0.8
	Big Five MOW	\$	1.5
	WABTEC License	\$	2.0
	IT Projects	\$	0.4
	Contract & FRA Training Require	\$	0.9
	Retail Ticket Consult	\$	0.4
	Insurance Deductible (Oxnard incident)	\$	1.0
	BNSF decrease	\$	(6.1)
	Position reduction	\$	(0.3)
	2% COLA/ 3% Merit (Operations only)	\$	0.8
	LOSSAN Increase	\$	0.8
		\$	0.4

## SCRR FY18 Project Request Summary

## Project Request Refinement Process

The FY18 Project Request initially began as an Unconstrained list of needed projects. This list was constrained by selecting critical projects that must be included in the FY18 Project Request by primarily focusing on Safety, Rail Operations and Regulatory Requirements. This document provides an overview of the Constrained list of projects and Member Agency shares. The Project Request List attachment has further details.

## Unconstrained Project Request Totals

- 114 Rehab Projects at \$197,694,504
- 4 Capital Projects at \$15,976,400

\$213,670,904

## Constrained Project Request Totals

- 49 FY18 Rehab Projects at \$38,196,753
- 9 FY17 Intended Rehab Projects at \$51,362,074
- 2 FY18 Capital Projects at \$3,277,900
- 1 FY17 Intended Capital Project at \$2,000,000 (Phase 1 only)

\$94,836,727

## Adjusted Project Request Totals

(Less Alternate Funding Sources)

- 57 FY17+FY18 Rehab Projects at \$62,603,051
- 3 FY17+FY18 Capital Projects at \$5,277,900

\$67,880,951

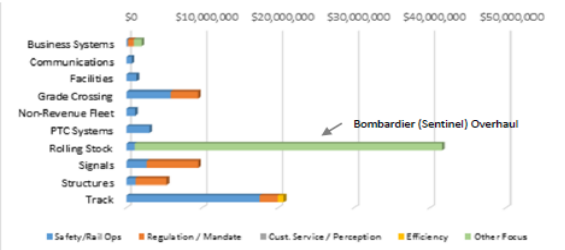
## Other Funding Sources

- \$26,143,776 Sentinel Rehab Project
  - \$20,207M Prop 1A (1:1 matching funds required)
  - Note: Prop 1A funds are in danger of becoming unavailable if this project does not proceed in the near term
- \$4,774M PTMISEA
- \$1,162,776M Insurance Settlement
- \$812,000 San Gabriel Turnout Project
- \$812,000 of State TCRP funds
- If funds are not awarded LACMTA's funding requirement increases by \$487,200 and SBCTA's funding requirement increases by \$324,800

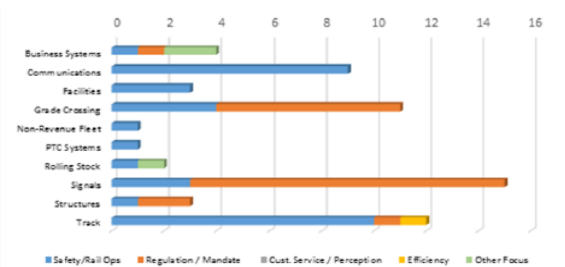
FY2018 Rehab Projects					
Asset Type	# of Critical Projects	Intended FY17	Estimated FY18 Funding	Adjust. for Other Funding Sources	Adjusted Project FY18 Funds Requested
Business Systems	3	-	\$1,818,900		\$1,818,900
Communications	9	-	\$675,000		\$675,000
Facilities	3	-	\$1,349,320		\$1,349,320
Grade Crossing (FY17)	4	\$5,653,700			\$5,653,700
Grade Crossing (new)	7	-	\$3,788,440		\$3,788,440
Non-Revenue Fleet	1	-	\$1,163,100		\$1,163,100
Rolling Stock (FY17)	1	\$40,500,000		(\$26,143,776)	\$14,356,224
Rolling Stock (new)	1	-	\$1,100,000		\$1,100,000
Signals	15	-	\$9,459,930		\$9,459,930
Structures	4	-	\$5,314,073		\$5,314,073
Track (FY17)	4	\$5,208,374		(\$812,000)	\$4,396,374
Track (new)	7	-	\$13,527,990		\$13,527,990
<b>Totals</b>	<b>58 (49 new)</b>	<b>\$51,362,074</b>	<b>\$38,196,753</b>		
<b>Total FY18 Rehab (FY17+FY18)</b>			<b>\$89,558,827</b>	<b>(\$26,955,776)</b>	<b>\$62,603,051</b>

FY2018 Capital Projects					
Asset Type	# of Critical Projects	Intended from FY17	Estimated FY18 Funding	Adjust. for Other Funding Sources	Adjusted Project FY18 Funds Requested
Business Systems	1		\$207,900		\$207,900
PTC Systems	1		\$3,070,000		\$3,070,000
Track (FY17 – Phase 1 only)	1	\$2,000,000			\$2,000,000
<b>Totals</b>	<b>3 (2 new)</b>	<b>\$2,000,000</b>	<b>\$3,277,900</b>		<b>\$5,277,900</b>
<b>Total FY18 Capital (FY17+FY18)</b>			<b>\$5,277,900</b>	<b>\$0</b>	<b>\$5,277,900</b>
<b>Grand Total</b>			<b>\$94,836,727</b>	<b>(\$26,955,776)</b>	<b>\$67,880,951</b>

FY18 Project Rehab & Capital Funding by Primary Area of Focus  
(Unadjusted FY18 plus FY17 Intended)

Other includes: Reduce Expenses or Mitigation of Major Future Cost Increases, Improved Working Conditions, etc.

FY18 Project Rehab & Capital Projects by Primary Area of Focus  
(Unadjusted FY18 plus FY17 Intended)

Other includes: Reduce Expenses or Mitigation of Major Future Cost Increases, Improved Working Conditions, etc.

FY18 Rehab Project Allocation by Funding Source (includes Other Funding Sources)

Asset / Funding Source	Los Angeles County Transportation Authority (LACMTA)	Orange County Transportation Authority (OCTA)	Riverside County Transportation Commission (RCTC)	San Bernardino Associated Governments (SANBAG)	Ventura County Transportation Commission (VCTC)	Other Funding Sources	Totals
Business Systems	\$863,978	\$360,142	\$201,898	\$261,922	\$130,961		\$1,818,900
Communications	\$302,500	\$169,800	\$61,100	\$84,400	\$57,200		\$675,000
Facilities	\$1,139,677	\$79,065	\$44,325	\$57,502	\$28,751		\$1,349,320
Grade Crossing	\$6,501,437	\$665,856	\$59,030	\$1,285,947	\$929,870		\$9,442,140
Non-Revenue Fleet	\$552,473	\$230,294	\$129,104	\$167,486	\$83,743		\$1,163,100
Rolling Stock	\$7,341,706	\$3,060,332	\$1,715,641	\$2,225,696	\$1,112,848	\$26,143,776	\$41,600,000
Signals	\$6,049,175	\$1,015,457	\$569,271	\$943,290	\$882,737		\$9,459,930
Structures	\$4,089,073	\$1,225,000					\$5,314,073
Track	\$12,939,164	\$539,035	\$302,186	\$2,248,215	\$1,895,763	\$812,000	\$18,736,364
<b>Total All-Share</b>	<b>\$12,977,149</b>	<b>\$5,409,422</b>	<b>\$3,032,555</b>	<b>\$3,934,125</b>	<b>\$1,967,063</b>	<b>\$26,143,776</b>	<b>\$53,464,090</b>
<b>Total Line-Specific</b>	<b>\$26,802,033</b>	<b>\$1,935,560</b>	<b>\$50,000</b>	<b>\$3,340,334</b>	<b>\$3,154,810</b>	<b>\$812,000</b>	<b>\$36,094,737</b>
Proposed Rotem Repayments	\$5,409,422	(\$6,059,016)			\$649,594		\$0
<b>Grand Total</b>	<b>\$45,188,605</b>	<b>\$1,285,966</b>	<b>\$3,082,555</b>	<b>\$7,924,053</b>	<b>\$5,121,873</b>	<b>\$26,955,776</b>	<b>\$89,558,827</b>

FY18 Capital Project Allocation by Funding Source

Asset / Funding Source	Los Angeles County Transportation Authority (LACMTA)	Orange County Transportation Authority (OCTA)	Riverside County Transportation Commission (RCTC)	San Bernardino Associated Governments (SANBAG)	Ventura County Transportation Commission (VCTC)	Totals
Business Systems	\$98,753	\$41,164	\$23,077	\$29,938	\$14,969	\$207,900
Track	\$950,000	\$396,000	\$222,000	\$288,000	\$144,000	\$2,000,000
PTC Systems	\$1,458,250	\$607,860	\$340,770	\$442,080	\$221,040	\$3,070,000
<b>Total All-Share</b>	<b>\$2,507,003</b>	<b>\$1,045,024</b>	<b>\$585,847</b>	<b>\$760,018</b>	<b>\$380,009</b>	<b>\$5,277,900</b>
<b>Grand Total</b>	<b>\$2,507,003</b>	<b>\$1,045,024</b>	<b>\$585,847</b>	<b>\$760,018</b>	<b>\$380,009</b>	<b>\$5,277,900</b>



FY18 Project Request Dashboard as of April 7, 2017

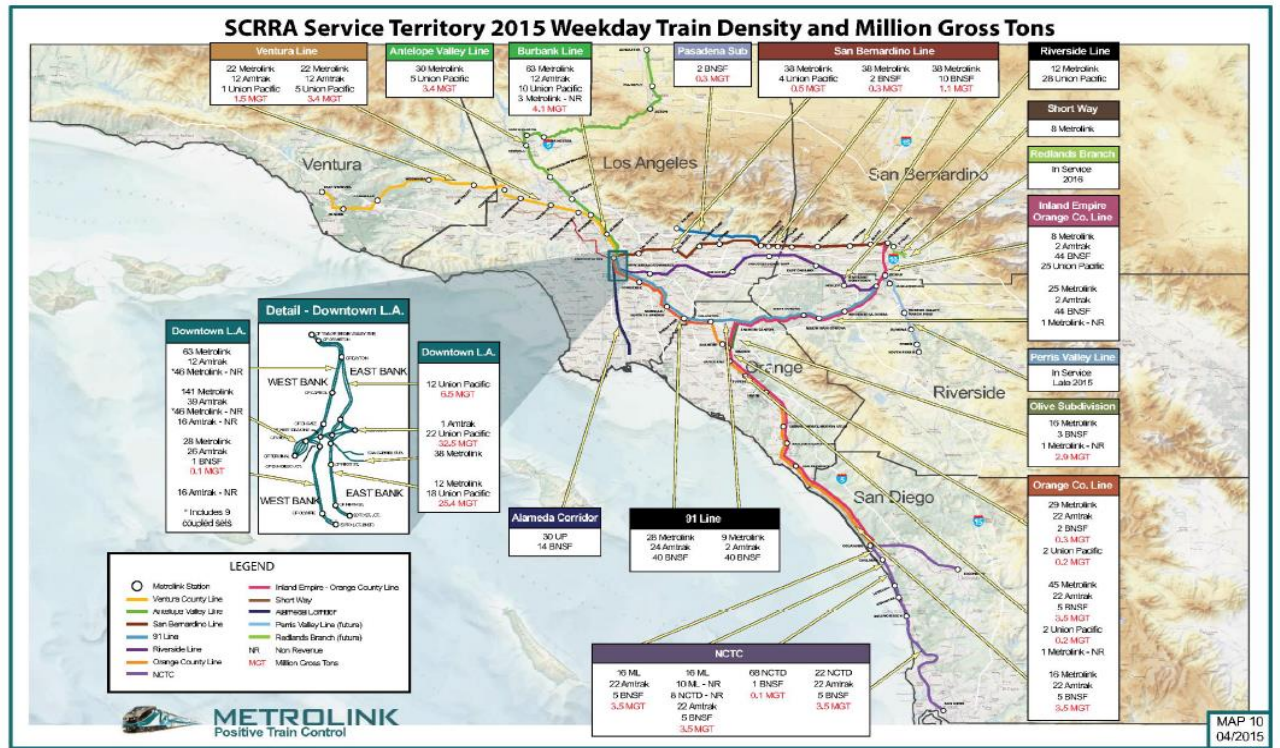
## Funding Trends

Rehabilitation and Capital Funding per Fiscal Year  
FY2011 to FY2017  
(\$ millions)



## Standard Project Allocations

Sub Division List	LACMTA	OCTA	RCTC	SBCTA	VTCTC
All	47.50%	19.80%	11.10%	14.40%	7.20%
Montalvo	0.00%	0.00%	0.00%	0.00%	100.00%
Olive	0.00%	100.00%	0.00%	0.00%	0.00%
Orange	0.00%	100.00%	0.00%	0.00%	0.00%
Other	0.00%	0.00%	0.00%	0.00%	0.00%
Pasadena	100.00%	0.00%	0.00%	0.00%	0.00%
Redlands	0.00%	0.00%	0.00%	100.00%	0.00%
Rialto	0.00%	0.00%	0.00%	100.00%	0.00%
River	47.50%	19.80%	11.10%	14.40%	7.20%
River Sub - East Bank	47.50%	19.80%	11.10%	14.40%	7.20%
River Sub - West Bank	47.50%	19.80%	11.10%	14.40%	7.20%
Riverside	0.00%	0.00%	100.00%	0.00%	0.00%
San Gabriel - LA County	100.00%	0.00%	0.00%	0.00%	0.00%
San Gabriel - SB County	0.00%	0.00%	0.00%	100.00%	0.00%
San Gabriel 60 / 40	60.00%	0.00%	0.00%	40.00%	0.00%
San Jacinto (PVL)	0.00%	0.00%	100.00%	0.00%	0.00%
SB Shortway	0.00%	0.00%	0.00%	100.00%	0.00%
Valley	100.00%	0.00%	0.00%	0.00%	0.00%
Ventura - LA County	100.00%	0.00%	0.00%	0.00%	0.00%
Ventura - VC County	0.00%	0.00%	0.00%	0.00%	100.00%



## FY18 Rehab Projects by Subdivision (includes Other Funding Sources)

Asset	Allocated Across All Counties (includes San Bernardino)	Olive	Orange	Orange County Total	Riverside County including San Jacinto (PVL)	San Gabriel 60 / 40	Antelope Valley	Antelope Valley/Ventura Line within LA County	Ventura Line within LA County	Los Angeles County Total	Ventura County Total	Grand Total
Business Systems	\$1,818,900											\$1,818,900
Communications	\$100,000	\$75,000	\$75,000	\$150,000	\$50,000	\$175,000	\$100,000		\$50,000	\$325,000	\$50,000	\$675,000
Facilities	\$399,320						\$950,000			\$950,000		\$1,349,320
Grade Crossing	\$531,800		\$560,560	\$560,560		\$3,023,420	\$1,606,180		\$2,828,600	\$7,458,200	\$891,580	\$9,442,140
Non-Revenue Fleet	\$1,163,100											\$1,163,100
Rolling Stock*	\$41,600,000											\$41,600,000
Signals	\$5,128,570					\$511,940	\$2,792,460		\$513,480	\$3,817,880	\$513,480	\$9,459,930
Structures	\$2,722,400		\$1,225,000	\$1,225,000			\$3,638,713		\$450,360	\$4,089,073		\$5,314,073
Track*	\$53,464,090					\$5,452,474	\$4,065,250	\$250,800	\$4,545,690	\$14,314,214	\$1,699,750	\$18,736,364
<b>Total by Subdivision</b>	<b>\$53,464,090</b>	<b>\$75,000</b>	<b>\$1,860,560</b>	<b>\$1,935,560</b>	<b>\$50,000</b>	<b>\$9,162,834</b>	<b>\$13,152,603</b>	<b>\$250,800</b>	<b>\$8,388,130</b>	<b>\$30,954,367</b>	<b>\$3,154,810</b>	<b>\$89,558,827</b>

\*Other Funding Sources included in the subdivision allocation for Rolling Stock and Track

Numbers may not foot due to rounding.





## PROJECT PROPOSALS FOR FY2018 REHABILITATION BUDGET - TIER A

## Attachment G

PROJECT #	SUBDIVISION	CONDITION	IMPACT	ASSET TYPE	PROJECT	TOTAL	Metro	OCTA	RCTC	SBCTA	VCTC <sup>(2)</sup>	OTHER <sup>(1)</sup>
1231	Olive	Marginal	High	Communications	Wayside Communication System Replacement Parts - Olive	\$75,000		\$75,000				
	<b>Olive Total</b>					<b>\$75,000</b>	<b>\$0</b>	<b>\$75,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
1229	Orange	Marginal	High	Communications	Wayside Communication System Replacement Parts - Orange	\$75,000		\$75,000				
1115	Orange	Worn	High	Structures	Orange Sub Struct	\$1,225,000		\$1,225,000				
334	Orange	Worn	High	Grade Crossing	Grade Crossing Rehab - Rehab 2 Locations per Year - Orange Sub	\$560,560		\$560,560				
	<b>Orange Total</b>					<b>\$1,860,560</b>	<b>\$0</b>	<b>\$1,860,560</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
1164	San Gabriel 60 / 40	Worn	High	Grade Crossing	Grade Crossing Rehab - 2 Locations per Year - SG Sub	\$548,600	\$329,160			\$219,440		
1217	San Gabriel 60 / 40	Worn	High	Track	San Gabriel Track Rehabilitation	\$2,110,250	\$1,266,150			\$844,100		
1287	San Gabriel 60 / 40	Worn	High	Grade Crossing	Rehabilitation of grade crossings on the San Gabriel Subdivision in Los Angeles County	\$1,965,220	\$1,179,132			\$786,088		
1235	San Gabriel 60 / 40	Marginal	High	Communications	Wayside Communication System Replacement Parts - San Gabriel - LA County	\$100,000	\$60,000			\$40,000		
1233	San Gabriel 60 / 40	Marginal	High	Communications	Wayside Communication System Replacement Parts - San Gabriel - SB County	\$75,000	\$45,000			\$30,000		
308	San Gabriel 60 / 40	Worn	High	Grade Crossing	Grade Crossing Rehab - SG Sub	\$509,600	\$305,760			\$203,840		
178	San Gabriel 60 / 40	Worn	High	Track	Replacement of the turnouts on the San Gabriel Subdivision in San Bernardino County (see note 1)	\$2,341,900	\$878,940			\$585,960		\$844,000
317	San Gabriel 60 / 40	Worn	High	Signals	Rehab Worn or Defective Cables - SG Sub	\$511,940	\$307,164			\$204,776		
162	San Gabriel 60 / 40	Worn	High	Track	Replacement of the turnouts on the San Gabriel Subdivision in Los Angeles County	\$1,000,324	\$600,194			\$400,130		
	<b>San Gabriel 60 / 40 Total</b>					<b>\$9,162,834</b>	<b>\$4,971,500</b>	<b>\$0</b>	<b>\$0</b>	<b>\$3,314,334</b>	<b>\$0</b>	<b>\$844,000</b>
1228	San Jacinto (PVL)	Marginal	High	Communications	Wayside Communication System Replacement Parts - PVL	\$50,000			\$50,000			
	<b>San Jacinto (PVL) Total</b>					<b>\$50,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$50,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
319	Valley	Worn	High	Signals	Signal System Rehab - Rehab Logic Controllers and Supporting Equipment - Valley Sub	\$1,131,460	\$1,131,460					
1216	Valley	Worn	High	Track	Valley Track Rehabilitation	\$4,065,250	\$4,065,250					
1162	Valley	Worn	High	Signals	Signal System Rehab - Replace EL1A Logic Controller at CP Harold	\$335,940	\$335,940					
1276	Valley	Worn	High	Structures	Valley Sub Structures (bridge 25.71 & 8 culverts)	\$3,638,713	\$3,638,713					
1288	Valley	Worn	High	Grade Crossing	Rehabilitation of grade crossings on the Valley Subdivision in Los Angeles County	\$1,048,700	\$1,048,700					
352	Valley	Worn	High	Signals	Rehab Worn or Defective Cables - Valley Sub	\$511,940	\$511,940					
1055	Valley	Marginal	High	Facilities	Replace Expand Lancaster Crew Base	\$950,000	\$950,000					
1240	Valley	Marginal	High	Communications	Wayside Communication System Replacement Parts - Valley	\$100,000	\$100,000					
1161	Valley	Worn	High	Signals	Replace Temporary AC Power Feed with Permanent Solar System - Valley Sub	\$307,560	\$307,560					
1163	Valley	Worn	High	Signals	Signal System Rehab - Replace Track Turnout and Power Switch at CP Harold	\$505,560	\$505,560					
318	Valley	Worn	High	Grade Crossing	Grade Crossing Rehab - 2 Locations per Year - Valley Sub	\$557,480	\$557,480					



# PROJECT PROPOSALS FOR FY2018 REHABILITATION BUDGET - TIER A

# Attachment G

PROJECT #	SUBDIVISION	CONDITION	IMPACT	ASSET TYPE	PROJECT	TOTAL	Metro	OCTA	RCTC	SBCTA	VCTC <sup>(2)</sup>	OTHER <sup>(1)</sup>
	<b>Valley Total</b>					<b>\$13,152,603</b>	<b>\$13,152,603</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
1099	Valley, Ventura - LA County	Worn	High	Track	Station Pedestrian Crossing Rehab	\$250,800	\$250,800					
	<b>Valley, Ventura - LA County Total</b>					<b>\$250,800</b>	<b>\$250,800</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
305	Ventura - LA County	Worn	High	Grade Crossing	Grade Crossing Rehab 2 Locations per Year	\$531,800	\$531,800					
1218	Ventura - LA County	Worn	High	Track	Ventura (LA) Track Rehabilitation	\$1,535,250	\$1,535,250					
1278	Ventura - LA County	Worn	Low	Structures	Ventura Sub (LA CO) Struct	\$450,360	\$450,360					
1160	Ventura - LA County	Worn	High	Signals	Rehab Signal and Grade Crossing Cables - Ven Sub	\$513,480	\$513,480					
1283	Ventura - LA County	Worn	High	Track	Ventura (LA) Tie Rehabilitation	\$3,010,440	\$3,010,440					
1244	Ventura - LA County	Marginal	High	Communications	Wayside Communication System Replacement Parts - Ventura - LA County	\$50,000	\$50,000					
164	Ventura - LA County	Worn	High	Grade Crossing	Rehabilitation of grade crossings on the Ventura Subdivision in Los Angeles County	\$2,296,800	\$2,296,800					
	<b>Ventura - LA County Total</b>					<b>\$8,388,130</b>	<b>\$8,388,130</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
1159	Ventura - VC County	Worn	High	Signals	Rehab Signal and Grade Crossing Cables - Ven Sub	\$513,480					\$513,480	
212	Ventura - VC County	Marginal	High	Track	Replace Ties Arroyo Simi Bridges - Ventura Sub VN Cty - FY17	\$1,025,750					\$1,025,750	
1282	Ventura - VC County	Worn	High	Track	Ventura (VC) Tie Rehabilitation	\$674,000					\$674,000	
1246	Ventura - VC County	Marginal	High	Communications	Wayside Communication System Replacement Parts - Ventura - Ventura County	\$50,000					\$50,000	
307	Ventura - VC County	Worn	High	Grade Crossing	Grade Crossing Rehab - 2 Locations per Year - Ven Sub	\$548,600					\$548,600	
165	Ventura - VC County	Worn	High	Grade Crossing	Rehabilitation of grade crossings on the Ventura Subdivision in Ventura County	\$342,980					\$342,980	
	<b>Ventura - VC County Total</b>					<b>\$3,154,810</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$3,154,810</b>	<b>\$0</b>
1274	All	Worn	High	Business Systems	Perform State of Good Repair Engineering, Track Measurements, and Prioritization to support and populate the annual SQGR/Rehab/TAM Program.	\$750,000	\$356,250	\$148,500	\$83,250	\$108,000	\$54,000	
247	All	Worn	High	Track	Rail Grinding Systemwide	\$840,400	\$399,190	\$166,399	\$93,284	\$121,018	\$60,509	
1223	All	Worn	High	Signals	SCRRA Production Backoffice Systems Upgrades and Testing Support	\$597,500	\$283,813	\$118,305	\$66,323	\$86,040	\$43,020	
485	All	Worn	High	Non-Revenue Fleet	MOW VEHICLE REPLACEMENT	\$1,163,100	\$552,473	\$230,294	\$129,104	\$167,486	\$83,743	
1058	All	Worn	High	Facilities	Replace Car shop Jacks at CMF	\$279,620	\$132,820	\$55,365	\$31,038	\$40,265	\$20,133	
1039	All	Worn	Low	Facilities	REPLACE PUBLIC ADDRESS SYSTEM	\$119,700	\$56,858	\$23,701	\$13,287	\$17,237	\$8,618	
1222	All	Worn	High	Signals	Backoffice Hardware & Software Replacement (DOC & MOC)	\$1,130,000	\$536,750	\$223,740	\$125,430	\$162,720	\$81,360	
1247	All	Worn	High	Rolling Stock	PTC On-Board Software updates, hardware repairs PTC on-board equipment Systems on 57 cab cars and 52 locomotives.	\$1,100,000	\$522,500	\$217,800	\$122,100	\$158,400	\$79,200	
1221	All	Worn	High	Signals	SCRRA Positive Train Control Lab Systems Support and Testing	\$947,500	\$450,063	\$187,605	\$105,173	\$136,440	\$68,220	
254 <sup>(3)</sup>	All	Marginal	High	Rolling Stock	Bombardier (Sentinel) passenger rail cars Midlife Overhaul on 28 cars (see note 3)	\$40,500,000	\$6,819,206	\$2,842,532	\$1,593,541	\$2,067,296	\$1,033,648	\$26,143,776

PROJECT PROPOSALS FOR FY2018 REHABILITATION BUDGET - TIER A							Attachment G					
PROJECT #	SUBDIVISION	CONDITION	IMPACT	ASSET TYPE	PROJECT	TOTAL	Metro	OCTA	RCTC	SBCTA	VCTC <sup>(2)</sup>	OTHER <sup>(1)</sup>
1041	All	Marginal	High	Business Systems	Trapeze Maintenance Management System Software Upgrade	\$992,775	\$471,568	\$196,569	\$110,198	\$142,960	\$71,480	
1091	All	Worn	High	Business Systems	Condition Based Maintenance Tools, PC and Analysis Software	\$76,125	\$36,159	\$15,073	\$8,450	\$10,962	\$5,481	
	<b>All Total</b>					<b>\$48,496,720</b>	<b>\$10,617,648</b>	<b>\$4,425,883</b>	<b>\$2,481,177</b>	<b>\$3,218,824</b>	<b>\$1,609,412</b>	<b>\$26,143,776</b>
1155	River	Worn	High	Signals	Replace Worn Electric Switch Lock at 140.80 West Bank	\$100,600	\$47,785	\$19,919	\$11,167	\$14,486	\$7,243	
312	River	Worn	High	Signals	Phase 1 - Signal System Rehab - CP Terminal Rehab Turnouts 3X, 5, 5X, 7, 7X and Power Switch Machines	\$1,000,000	\$475,000	\$198,000	\$111,000	\$144,000	\$72,000	
1167	River	Worn	High	Signals	Signal System Rehab - Replace EL1A Logic Controller at CP Capital	\$335,940	\$159,572	\$66,516	\$37,289	\$48,375	\$24,188	
1285	River	Worn	High	Track	LA Union Station Track Rehabilitation	\$1,882,000	\$893,950	\$372,636	\$208,902	\$271,008	\$135,504	
311	River	Worn	High	Signals	Signal System Rehab - River Sub	\$1,017,030	\$483,089	\$201,372	\$112,890	\$146,452	\$73,226	
1237	River	Marginal	High	Communications	Wayside Communication System Replacement Parts - River	\$100,000	\$47,500	\$19,800	\$11,100	\$14,400	\$7,200	
310	River	Worn	High	Grade Crossing	Grade Crossing Rehab - 2 grade crossings - River Sub	\$531,800	\$252,605	\$105,296	\$59,030	\$76,579	\$38,290	
	<b>River Total</b>					<b>\$4,967,370</b>	<b>\$2,359,501</b>	<b>\$983,539</b>	<b>\$551,378</b>	<b>\$715,301</b>	<b>\$357,651</b>	<b>\$0</b>
					<b>TOTAL ALL-SHARE</b>	<b>\$53,464,090</b>	<b>\$12,977,149</b>	<b>\$5,409,422</b>	<b>\$3,032,555</b>	<b>\$3,934,125</b>	<b>\$1,967,063</b>	<b>\$26,143,776</b>
					<b>TOTAL LINE-SPECIFIC</b>	<b>\$36,094,737</b>	<b>\$26,763,033</b>	<b>\$1,935,560</b>	<b>\$50,000</b>	<b>\$3,314,334</b>	<b>\$3,154,810</b>	<b>\$844,000</b>
					<b>TIER A TOTAL</b>	<b>\$89,558,827</b>	<b>\$39,740,183</b>	<b>\$7,344,982</b>	<b>\$3,082,555</b>	<b>\$7,248,459</b>	<b>\$5,121,873</b>	<b>\$26,987,776</b>
					<b>Proposed Rotem Repayments <sup>(4)</sup></b>	<b>\$0</b>	<b>\$5,409,422</b>	<b>(\$6,059,016)</b>	<b>\$0</b>	<b>\$649,594</b>	<b>\$0</b>	<b>\$0</b>
					<b>NEW TIER A TOTAL</b>	<b>\$89,558,827</b>	<b>\$45,149,605</b>	<b>\$1,285,966</b>	<b>\$3,082,555</b>	<b>\$7,898,053</b>	<b>\$5,121,873</b>	<b>\$26,987,776</b>

**BUDGET & FUNDING NOTES:**

- (1) San Gabriel sub turnout replacement project # 178 contains \$812K of State TCRP funds that SCRRRA plans to apply for. If the funds are not awarded, LA Metro's funding requirement increases by \$487,200 and SBCTA's funding requirement increases by \$324,800.
- (2) VCTC is likely to have approximately \$2.5M available for FY 2018 Rehabilitation projects. If that is the case, \$2.6M will have be cut from VCTC's share of the budget.
- (3) Other funds for Project # 254 (Bombardier Sentinel Car Overhaul) consist of \$20.2M of Prop 1A, \$4.77M of PTMISEA funds and \$1.163M of insurance settlement funds.
- (4) Systemwide projects are needed for the Rotem repayments to take place. OCTA's share of Systemwide projects proposed to be paid by LA Metro under the Rotem Settlement MOU.
- (5) \$200,000 in funds have been identified on existing FTA grant 5309 for OCTA

**PROJECT PROPOSALS FOR FY2018 CAPITAL BUDGET - TIER A****Attachment H**

RANK	PROJECT #	SUBDIVISION	CONDITION	IMPACT	ASSET TYPE	PROJECT	TOTAL	Metro	OCTA	RCTC	SANBAG	VCTC	OTHER
1	1119	All	n/a	n/a	Business Systems	Laptop and Server Upgrade	\$207,900	\$98,753	\$41,164	\$23,077	\$29,938	\$14,969	
2	219A	All	n/a	n/a	Track	Central Maintenance Facility West Entrance Phase A - focused on Design, Engineering, & putting together contract documents of the CMF West Entrance Project with estimated cost is \$2M and would last 4 quarters (1 year)	\$2,000,000	\$950,000	\$396,000	\$222,000	\$288,000	\$144,000	
3	1238	All	n/a	n/a	PTC Systems	Interoperable Positive Train Control Rung II Non-Vital to Vital System Upgrade	\$3,070,000	\$1,458,250	\$607,860	\$340,770	\$442,080	\$221,040	
TOTAL							\$5,277,900	\$2,507,003	\$1,045,024	\$585,847	\$760,018	\$380,009	\$0

**BUDGET & FUNDING NOTES:**

(1) Project 219A - Central Maintenance Facility West Entrance - is the first of two phases. Phase A focuses on design and engineering, while Phase B focuses on Construction. Phase B is anticipated for FY19 at approximately \$9.6M

**FY19 Forecast Operating Budget**  
**by Cost Component By Member Agency**

(\$000s)	Total FY18-19	Metro	OCTA	RCTC	SBCTA	VCTC
<b>Operating Revenue</b>						
Farebox Revenue	83,897	40,769	22,453	7,759	10,512	2,404
Metro Fare Reduction Subsidy	1,262	1,262	-	-	-	-
<b>Subtotal-Pro Forma FareBox</b>	<b>85,159</b>	<b>42,031</b>	<b>22,453</b>	<b>7,759</b>	<b>10,512</b>	<b>2,404</b>
Dispatching	2,128	1,130	685	6	57	250
Other Revenues	12	6	3	1	1	0
MOW Revenues	13,431	8,120	2,537	670	1,560	544
<b>Subtotal Operating Revenue</b>	<b>100,730</b>	<b>51,287</b>	<b>25,678</b>	<b>8,436</b>	<b>12,130</b>	<b>3,199</b>
<b>Operating Expenses</b>						
<b><u>Operations &amp; Services</u></b>						
Train Operations	46,097	24,559	10,331	4,679	4,842	1,685
Equipment Maintenance	37,530	18,449	8,637	4,476	4,334	1,633
Fuel	18,751	9,579	4,794	1,878	1,912	588
Non-Scheduled Rolling Stock Repairs	100	52	24	10	11	3
Operating Facilities Maintenance	1,690	879	401	166	190	55
Other Operating Train Services	482	227	83	72	49	50
Rolling Stock Lease	-	-	-	-	-	-
Security - Sheriff	6,040	3,150	1,206	943	614	126
Security - Guards	2,889	1,362	498	432	295	302
Supplemental Additional Security	690	341	182	63	85	19
Public Safety Program	275	130	47	41	28	29
Passenger Relations	1,740	871	451	151	213	53
TVM Maintenance/Revenue Collection	6,019	2,508	1,322	1,003	821	364
Marketing	1,085	556	263	96	134	35
Media & External Communications	408	192	70	61	42	43
Utilities/Leases	3,309	1,560	570	495	338	345
Transfers to Other Operators	6,789	3,641	1,624	536	753	235
Amtrak Transfers	2,219	707	1,402	-	-	110
Station Maintenance	1,720	1,046	248	115	230	81
Rail Agreements	5,466	1,926	1,579	1,257	358	347
<b>Subtotal Operations &amp; Services</b>	<b>143,300</b>	<b>71,736</b>	<b>33,735</b>	<b>16,475</b>	<b>15,251</b>	<b>6,102</b>
<b><u>Maintenance-of-Way</u></b>						
MoW - Line Segments	42,177	22,291	8,651	3,245	5,527	2,463
MoW - Extraordinary Maintenance	1,044	612	134	101	113	84
<b>Subtotal Maintenance-of-Way</b>	<b>43,221</b>	<b>22,903</b>	<b>8,785</b>	<b>3,346</b>	<b>5,640</b>	<b>2,546</b>
<b><u>Administration &amp; Services</u></b>						
Ops Salaries & Fringe Benefits	14,541	6,855	2,517	2,169	1,487	1,513
Ops Non-Labor Expenses	7,658	3,895	1,701	844	839	380
Indirect Administrative Expenses	15,807	7,452	2,725	2,365	1,616	1,650
Ops Professional Services	2,689	1,268	464	402	275	281
<b>Subtotal Admin &amp; Services</b>	<b>40,695</b>	<b>19,469</b>	<b>7,407</b>	<b>5,779</b>	<b>4,216</b>	<b>3,824</b>
<b><u>Contingency (Non-Train Ops)</u></b>	<b>252</b>	<b>119</b>	<b>43</b>	<b>38</b>	<b>26</b>	<b>26</b>
<b>Total Operating Expenses</b>	<b>227,468</b>	<b>114,227</b>	<b>49,971</b>	<b>25,638</b>	<b>25,133</b>	<b>12,499</b>
<b>Insurance Expense/(Revenue)</b>						
Liability/Property/Auto	13,099	6,809	3,110	1,284	1,471	426
Claims / SI	1,050	546	249	103	118	34
Claims Administration	1,191	619	283	117	134	39
PLPD Revenue	-	-	-	-	-	-
<b>Net Insurance Expense</b>	<b>15,341</b>	<b>7,974</b>	<b>3,642</b>	<b>1,503</b>	<b>1,723</b>	<b>499</b>
<b>Total Expenses</b>	<b>242,808</b>	<b>122,201</b>	<b>53,613</b>	<b>27,142</b>	<b>26,856</b>	<b>12,997</b>
<b>Total Loss</b>	<b>(142,079)</b>	<b>(70,914)</b>	<b>(27,935)</b>	<b>(18,706)</b>	<b>(14,726)</b>	<b>(9,799)</b>
<b>Member Subsidies</b>						
Operations	126,738	62,940	24,293	17,202	13,003	9,300
Insurance	15,341	7,974	3,642	1,503	1,723	499
<b>Member Subsidies</b>	<b>142,079</b>	<b>70,914</b>	<b>27,935</b>	<b>18,706</b>	<b>14,726</b>	<b>9,799</b>
<b>Surplus / (Deficit)</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>



**FY20 Forecast Operating Budget**  
**by Cost Component By Member Agency**

(\$000s)	Total FY19-20	Metro	OCTA	RCTC	SBCTA	VCTC
<b>Operating Revenue</b>						
Farebox Revenue	83,897	40,769	22,453	7,759	10,512	2,404
Metro Fare Reduction Subsidy	1,262	1,262	-	-	-	-
<b>Subtotal-Pro Forma FareBox</b>	<b>85,159</b>	<b>42,031</b>	<b>22,453</b>	<b>7,759</b>	<b>10,512</b>	<b>2,404</b>
Dispatching	2,128	1,130	685	6	57	250
Other Revenues	12	6	3	1	1	0
MOW Revenues	13,431	8,120	2,537	670	1,560	544
<b>Subtotal Operating Revenue</b>	<b>100,730</b>	<b>51,287</b>	<b>25,678</b>	<b>8,436</b>	<b>12,130</b>	<b>3,199</b>
<b>Operating Expenses</b>						
<b><u>Operations &amp; Services</u></b>						
Train Operations	47,600	25,382	10,644	4,817	5,006	1,750
Equipment Maintenance	38,847	19,120	8,942	4,619	4,474	1,692
Fuel	19,361	9,894	4,946	1,939	1,975	608
Non-Scheduled Rolling Stock Repairs	100	52	24	10	11	3
Operating Facilities Maintenance	1,530	796	364	150	171	50
Other Operating Train Services	495	233	85	74	51	52
Rolling Stock Lease	-	-	-	-	-	-
Security - Sheriff	6,241	3,257	1,255	962	635	132
Security - Guards	2,942	1,387	507	440	301	307
Supplemental Additional Security	690	341	182	63	85	19
Public Safety Program	275	130	47	41	28	29
Passenger Relations	1,746	826	492	167	203	57
TVM Maintenance/Revenue Collection	6,264	2,610	1,376	1,044	854	379
Marketing	1,085	523	291	107	126	39
Media & External Communications	408	192	70	61	42	43
Utilities/Leases	3,329	1,569	574	498	340	348
Transfers to Other Operators	6,993	3,751	1,673	552	776	242
Amtrak Transfers	2,262	721	1,429	-	-	112
Station Maintenance	1,800	1,096	259	119	241	85
Rail Agreements	5,569	1,950	1,626	1,283	361	349
<b>Subtotal Operations &amp; Services</b>	<b>147,536</b>	<b>73,829</b>	<b>34,786</b>	<b>16,945</b>	<b>15,681</b>	<b>6,295</b>
<b><u>Maintenance-of-Way</u></b>						
MoW - Line Segments	44,071	23,309	9,017	3,408	5,759	2,577
MoW - Extraordinary Maintenance	1,090	639	140	106	117	87
<b>Subtotal Maintenance-of-Way</b>	<b>45,160</b>	<b>23,948</b>	<b>9,157</b>	<b>3,514</b>	<b>5,877</b>	<b>2,664</b>
<b><u>Administration &amp; Services</u></b>						
Ops Salaries & Fringe Benefits	15,277	7,202	2,645	2,279	1,563	1,589
Ops Non-Labor Expenses	7,888	4,014	1,753	867	864	390
Indirect Administrative Expenses	16,273	7,671	2,805	2,434	1,663	1,699
Ops Professional Services	2,694	1,270	464	403	275	281
<b>Subtotal Admin &amp; Services</b>	<b>42,132</b>	<b>20,156</b>	<b>7,668</b>	<b>5,983</b>	<b>4,365</b>	<b>3,959</b>
<b>Contingency (Non-Train Ops)</b>	<b>252</b>	<b>119</b>	<b>43</b>	<b>38</b>	<b>26</b>	<b>26</b>
<b>Total Operating Expenses</b>	<b>235,080</b>	<b>118,052</b>	<b>51,655</b>	<b>26,480</b>	<b>25,949</b>	<b>12,944</b>
<b>Insurance Expense/(Revenue)</b>						
Liability/Property/Auto	13,885	7,224	3,299	1,358	1,552	451
Claims / SI	1,113	579	264	109	124	36
Claims Administration	1,197	623	285	117	134	39
PLPD Revenue	-	-	-	-	-	-
<b>Net Insurance Expense</b>	<b>16,196</b>	<b>8,427</b>	<b>3,848</b>	<b>1,584</b>	<b>1,811</b>	<b>526</b>
<b>Total Expenses</b>	<b>251,276</b>	<b>126,479</b>	<b>55,503</b>	<b>28,064</b>	<b>27,759</b>	<b>13,470</b>
<b>Total Loss</b>	<b>(150,546)</b>	<b>(75,192)</b>	<b>(29,825)</b>	<b>(19,628)</b>	<b>(15,629)</b>	<b>(10,271)</b>
<b>Member Subsidies</b>						
Operations	134,350	66,765	25,977	18,044	13,819	9,745
Insurance	16,196	8,427	3,848	1,584	1,811	526
<b>Member Subsidies</b>	<b>150,546</b>	<b>75,192</b>	<b>29,825</b>	<b>19,628</b>	<b>15,629</b>	<b>10,271</b>
<b>Surplus / (Deficit)</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

**PROJECT PROPOSALS FOR FY2019 REHABILITATION BUDGET**
**Attachment K**

ORIGINALLY INTENDED	PROJECT #	SUBDIVISION	CONDITION	IMPACT	ASSET TYPE	PROJECT	TOTAL	Metro	OCTA	RCTC	SBCTA	VCTC	OTHER (1)
FY18	1158	River	Worn	High	Signals	Rehab Signal System - Replace worn signals: 2W, 4WA, 4WB, 6W - CP Dayton	\$151,800	\$72,105	\$30,056	\$16,850	\$21,859	\$10,930	
FY18	1108	All	Worn	High	Stations	Station Platform Detectable Warning Panel and Pavement Marking Rehab	\$242,000	\$114,950	\$47,916	\$26,862	\$34,848	\$17,424	
FY18	1166	River	Worn	High	Signals	Rehab Worn and/or Defective Battery Cells - River Sub	\$64,240	\$30,514	\$12,720	\$7,131	\$9,251	\$4,625	
FY18	1151	San Gabriel 60 / 40	Worn	High	Signals	Signal System Rehab - Replace EC4 Unit with EC5 at Int Signal 81/82 - SG Sub	\$335,940	\$201,564			\$134,376		
FY18	322	Ventura - LA County	Worn	High	Signals	Signal System Rehab - Rehab Logic Controllers at Signal Locations - Ven Sub	\$329,560	\$329,560					
FY18	1051	All	Good	Low	Rolling Stock	Rotem Bi-Level Rail-car Progressive Overhaul Program Phase 1	\$11,933,250	\$5,668,294	\$2,362,784	\$1,324,591	\$1,718,388	\$859,194	
FY18	1057	All	Worn	Low	Facilities	Replace fencing and gates at MOC	\$149,050	\$70,799	\$29,512	\$16,545	\$21,463	\$10,732	
FY18	1054	All	Marginal	Low	Facilities	Renovate restrooms at CMF and MOC	\$756,800	\$359,480	\$149,846	\$84,005	\$108,979	\$54,490	
FY18	1203	Orange	Worn	High	Structures	Orange Sub Struct - San Juan Creek Bridge	\$38,261,522		\$38,261,522				
FY18	159	San Gabriel 60 / 40	Marginal	High	Track	San Gabriel Subdivision Rail Rehab Program	\$6,268,800	\$3,761,280			\$2,507,520		
FY18	320	Pasadena	Worn	High	Grade Crossing	Rehab Worn Signal and Grade Crossing Cables - Pasadena Sub	\$557,480	\$557,480					
FY18	1272	River	Worn	High	Track	Replace turnouts on the River Subdivision	\$1,830,840	\$869,649	\$362,506	\$203,223	\$263,641	\$131,820	
FY18	1289	Ventura - LA County	Marginal	High	Track	Replacement of turnouts on the Ventura Subdivision in Los Angeles County	\$525,000	\$525,000					
FY18	1154	River	Worn	High	Signals	Replace AC Meter Service @ N. Main Street - East Bank	\$130,600	\$2,741	\$1,143	\$641	\$831	\$416	\$124,829
FY18	1117	River	Worn	Low	Structures	River Sub Struct	\$299,600	\$142,310	\$59,321	\$33,256	\$43,142	\$21,571	
FY18	1280	San Gabriel 60 / 40	Worn	High	Track	San Gabriel Tie Rehabilitation	\$2,815,500	\$1,689,300			\$1,126,200		
FY18	1281	Valley	Worn	High	Track	Valley Tie Rehabilitation	\$11,110,940	\$11,110,940					
FY18	1165	River	Worn	High	Signals	Rehab Signal and Grade Crossing Cables - River Sub	\$513,480	\$243,903	\$101,669	\$56,996	\$73,941	\$36,971	
FY18	181	River Sub - West Bank	Marginal	High	Track	Replacement of turnouts on the River Subdivision West Bank line in Los Angeles County	\$540,980	\$256,966	\$107,114	\$60,049	\$77,901	\$38,951	
FY18	336	Olive	Worn	High	Signals	Rehab Worn or Defective Cables - Olive Sub	\$513,480		\$513,480				
FY18	347	River	Worn	High	Signals	Signal System Rehab - Replace EC4 Unit at CP Mission	\$346,940	\$164,797	\$68,694	\$38,510	\$49,959	\$24,980	
FY18	1241	Valley	Marginal	High	Communications	Wayside Communication System Design, slot planning, interference mitigation - Valley	\$75,000	\$75,000					
FY18	1239	River	Marginal	High	Communications	Wayside Communication System Design, slot planning, interference mitigation - River	\$75,000	\$35,625	\$14,850	\$8,325	\$10,800	\$5,400	
FY18	1243	Ventura - VC County	Marginal	High	Communications	Wayside Communication System Design, slot planning, interference mitigation - Ventura - Ventura County	\$37,500					\$37,500	
FY18	1245	Ventura - LA County	Marginal	High	Communications	Wayside Communication System Design, slot planning, interference mitigation - Ventura - LA County	\$37,500	\$37,500					
FY18	1255	San Gabriel 60 / 40	Marginal	High	Communications	Wayside Communication System Design, slot planning, interference mitigation - San Gabriel - SB County	\$37,500	\$22,500			\$15,000		
FY18	1227	San Jacinto (PVL)	Marginal	High	Communications	Wayside Communication System Design, slot planning, interference mitigation - PVL	\$75,000			\$75,000			
FY18	1254	San Gabriel 60 / 40	Marginal	High	Communications	Wayside Communication System Design, slot planning, interference mitigation - San Gabriel - LA County	\$37,500	\$22,500			\$15,000		
FY18	1230	Orange	Marginal	High	Communications	Wayside Communication System Design, slot planning, interference mitigation - Orange	\$125,000		\$125,000				
FY18	313	River	Worn	High	Signals	CP Dayton Signal Sys Rehab - Replace Relay Logic with Electrologixs Units	\$1,534,320	\$728,802	\$303,795	\$170,310	\$220,942	\$110,471	
FY18	191	All	Worn	High	Stations	Station Signage Rehab	\$310,500	\$147,488	\$61,479	\$34,466	\$44,712	\$22,356	
FY18	326	All	Worn	High	Signals	Rehab AC Units	\$236,940	\$112,547	\$46,914	\$26,300	\$34,119	\$17,060	
FY18	1113	Ventura - VC County	Worn	High	Structures	Ventura Sub (Ven CO) Struct - Arroyo Simi Bridge	\$13,999,650					\$13,999,650	
FY18	306	San Gabriel 60 / 40	Worn	High	Grade Crossing	Grade Crossing Rehab - 2 Locations per Year - SG Sub	\$548,600	\$329,160			\$219,440		
FY18	1153	Montalvo	Worn	High	Signals	Rehab Worn or Defective Cables - Montalvo Sub	\$566,940					\$566,940	

**PROJECT PROPOSALS FOR FY2019 REHABILITATION BUDGET**
**Attachment K**

ORIGINALLY INTENDED	PROJECT #	SUBDIVISION	CONDITION	IMPACT	ASSET TYPE	PROJECT	TOTAL	Metro	OCTA	RCTC	SBCTA	VCTC	OTHER (1)
FY18	1219	Ventura - VC County	Worn	High	Track	Ventura (VC) Track Rehabilitation	\$781,000					\$781,000	
FY18	1152	San Gabriel 60 / 40	Worn	High	Signals	Signal System Rehab - Replace EC4 Unit with EC5 at Int Signal 111/112 - SG Sub	\$335,940	\$201,564			\$134,376		
FY18	266	Orange	Worn	High	Signals	Rehab Worn or Defective Cables - Orange Sub	\$566,940		\$366,940				\$200,000
FY18	1207	Orange	Worn	High	Track	Orange Subdivision Rail Rehab Program	\$942,000		\$942,000				
FY18	340	San Gabriel 60 / 40	Worn	High	Signals	Signal System Rehab - Replace EC4 Unit with EC5 at Int Signal 41/42 - SG Sub	\$335,940	\$201,564			\$134,376		
FY18	1208	Orange	Marginal	High	Track	Orange Subdivision Tie Rehab	\$2,920,500		\$2,920,500				
FY18	1157	River	Worn	High	Signals	Area lighting and fencing around houses - River Sub	\$536,800	\$254,980	\$106,286	\$59,585	\$77,299	\$38,650	
FY18	250	Valley	Marginal	High	Track	Replacement of turnouts on the Valley Subdivision in Los Angeles County	\$400,000	\$400,000					
FY18	1305	San Gabriel 60 / 40	Worn	High	Grade Crossing	Rehabilitation of Beech Ave crossing on the San Gabriel Subdivision	\$462,000	\$277,200			\$184,800		
FY18	1215	Valley	Marginal	High	Track	Valley Sub Rail Rehabilitation	\$2,296,250	\$2,296,250					
FY18	277	San Gabriel 60 / 40	Worn	High	Signals	Rehab Worn or Defective Cables - SG Sub	\$566,940	\$340,164			\$226,776		
FY18	263	Orange	Worn	High	Signals	C&S Corrosion Mitigation	\$216,615		\$216,615				
FY18	196	River	Worn	Low	Track	Rehabilitation of the North lead to CMF	\$750,000	\$356,250	\$148,500	\$83,250	\$108,000	\$54,000	
FY18	154	Pasadena	Worn	Low	Grade Crossing	Phase 1 - Rehabilitation of grade crossings on the Pasadena Subdivision	\$500,000	\$500,000					
FY18	155	Rialto	Worn	High	Grade Crossing	Phase 1 - Rehabilitation of grade crossings on the Rialto Industrial Track	\$250,000				\$250,000		
FY18	1252	San Gabriel 60 / 40	Marginal	Low	Communications	Rehab Update CIS at Stations - San Gabriel (SB County)	\$150,000	\$90,000			\$60,000		
FY18	1248	Valley	Marginal	Low	Communications	Rehab Update CIS at Stations - Valley	\$150,000	\$150,000					
FY18	1250	Orange	Marginal	Low	Communications	Rehab Update CIS at Stations - Orange	\$150,000		\$150,000				
FY18	1251	San Gabriel 60 / 40	Marginal	Low	Communications	Rehab Update CIS at Stations - San Gabriel (LA County)	\$150,000	\$90,000			\$60,000		
FY18	1249	Ventura - VC County	Marginal	Low	Communications	Rehab Update CIS at Stations - Ventura - Ventura County	\$150,000					\$150,000	
FY18	1253	Ventura - LA County	Marginal	Low	Communications	Rehab Update CIS at Stations - Ventura - LA County	\$150,000	\$150,000					
FY19	239	All	Worn	High	Stations	Station Signage Rehab	\$310,500	\$147,488	\$61,479	\$34,466	\$44,712	\$22,356	
FY19	1120	All	Marginal	High	Rolling Stock	Bombardier (Sentinel) passenger rail cars Midlife Overhaul	\$40,500,000	\$19,237,500	\$8,019,000	\$4,495,500	\$5,832,000	\$2,916,000	
FY19	1109	All	Worn	High	Stations	Station Platform Detectable Warning Panel and Pavement Marking Rehab	\$297,000	\$141,075	\$58,806	\$32,967	\$42,768	\$21,384	
FY19	1060	Ventura - VC County	Worn	Low	Facilities	Replace Moorpark Trailer (Crew Base)	\$1,474,000					\$1,474,000	
FY19	1062	All	Worn	High	Facilities	Replace yard and progressive track lighting at CMF	\$933,020	\$443,185	\$184,738	\$103,565	\$134,355	\$67,177	
FY19	1170	Orange	Worn	High	Signals	C&S Corrosion Mitigation	\$216,615		\$216,615				
FY19	1168	Montalvo	Worn	High	Signals	Rehab Worn or Defective Cables - Montalvo Sub	\$566,940					\$566,940	
FY19	1061	All	Worn	Low	Rolling Stock	Locomotive and Cab Car Camera & DVR replacements	\$1,099,875	\$522,441	\$217,775	\$122,086	\$158,382	\$79,191	
FY19	197	River	Worn	Low	Facilities	Spot Track Facility Modifications	\$1,638,750	\$778,406	\$324,473	\$181,901	\$235,980	\$117,990	
FY19	1313	All	Worn	High	Facilities	Phase 2 - Replace Car shop Jacks at CMF	\$279,620	\$132,820	\$55,365	\$31,038	\$40,265	\$20,133	
FY19	1226	All	Worn	High	Labratory Testing	SCRRA Positive Train Control Lab Systems Support and Testing	\$847,500	\$402,563	\$167,805	\$94,073	\$122,040	\$61,020	
FY19	1225	All	Worn	High	Signals	SCRRA Production Backoffice Systems Upgrades and Testing Support	\$547,000	\$259,825	\$108,306	\$60,717	\$78,768	\$39,384	
FY19	1056	All	Marginal	Low	Facilities	Employee Communications System Upgrade	\$228,375	\$108,478	\$45,218	\$25,350	\$32,886	\$16,443	
FY19	1224	All	Marginal	High	Signals	Backoffice Hardware & Software Replacement (DOC & MOC)	\$1,020,000	\$484,500	\$201,960	\$113,220	\$146,880	\$73,440	
FY19	1212	Valley	Worn	High	Track	Tunnel 25 Track Rennovation	\$10,792,750	\$10,792,750					
FY19	235	Valley	Worn	High	Structures	Verdugo Wash (8.12) Bridge Deck Replacement	\$1,484,725	\$1,484,725					

PROJECT PROPOSALS FOR FY2019 REHABILITATION BUDGET

Attachment K

ORIGINALLY INTENDED	PROJECT #	SUBDIVISION	CONDITION	IMPACT	ASSET TYPE	PROJECT	TOTAL	Metro	OCTA	RCTC	SBCTA	VCTC	OTHER (1)
FY19	1213	Valley	Marginal	High	Track	Valley Sub Track Renewal Train	\$70,000,000	\$70,000,000					
FY19	1127	All	Worn	High	Signals	Remove Unnecessary iiATS instructors from RR Right of Way	\$667,800	\$317,205	\$132,224	\$74,126	\$96,163	\$48,082	
FY19	325	Pasadena	Worn	Low	Grade Crossing	Grade Crossing Rehab - 2 Locations per Year - Pasadena Sub	\$557,480	\$557,480					
FY19	1199	Pasadena	Worn	Low	Track	Pasadena Tie Rehabilitation	\$1,000,450	\$1,000,450					
FY19	1123	All	Worn	High	Signals	Rehab C&S Maintenance Vehicles (2 Sig vehicles)	\$150,000	\$71,250	\$29,700	\$16,650	\$21,600	\$10,800	
FY19	1209	San Jacinto (PVL)	Worn	Low	Track	Perris Valley Subdivision Rail Rehab Program	\$3,256,250			\$3,256,250			
FY19	1198	Pasadena	Worn	High	Track	Pasadena Subdivision Rail Rehab Program	\$738,240	\$738,240					
FY19	1308	Rialto	Worn	High	Grade Crossing	Phase 2 - Rehabilitation of grade crossings on the Rialto Industrial Track	\$250,000				\$250,000		
FY19	1310	River	Worn	High	Signals	Phase 2 - Signal System Rehab - CP Terminal Rehab Turnouts 3X, 5, 5X, 7, 7X and Power Switch Machines	\$1,000,000	\$475,000	\$198,000	\$111,000	\$144,000	\$72,000	
FY19	1306	Pasadena	Worn	Low	Grade Crossing	Phase 2 - Rehabilitation of grade crossings on the Pasadena Subdivision	\$1,000,000	\$1,000,000					
TOTAL							\$248,992,567	\$142,086,103	\$57,532,627	\$11,078,800	\$15,368,740	\$22,601,468	\$324,829

PROJECT PROPOSALS FOR FY2020 REHABILITATION BUDGET

Attachment L

ORIGINALLY INTENDED	PROJECT #	SUBDIVISION	CONDITION	IMPACT	ASSET TYPE	PROJECT	TOTAL	Metro	OCTA	RCTC	SBCTA	VCTC	OTHER (1)
FY20	240	All	Worn	High	Stations	Station Signage Rehab	\$310,500	\$147,488	\$61,479	\$34,466	\$44,712	\$22,356	
FY20	1063	All	Worn	Low	Non-Revenue Fleet	Vehicle Replacement	\$0	\$0	\$0	\$0	\$0	\$0	
FY20	1110	All	Worn	High	Stations	Station Platform Detectable Warning Panel and Pavement Marking Rehab	\$352,000	\$167,200	\$69,696	\$39,072	\$50,688	\$25,344	
FY20	1064	SB Shortway	Worn	Low	Facilities	Purchase electric train car mover for EMF	\$889,240				\$889,240		
FY20	1185	San Gabriel - SB County	Worn	High	Signals	Rehab Worn or Defective Cables	\$566,940				\$566,940		
FY20	1176	Orange	Worn	High	Signals	Rehab Worn or Defective Cables	\$566,940		\$566,940				
FY20	1191	Ventura - LA County	Worn	High	Signals	Rehab Worn or Defective Cables	\$513,480	\$513,480					
FY20	1121	All	Marginal	High	Rolling Stock	Bombardier (Sentinel) passenger rail cars Midlife Overhaul	\$40,500,000	\$19,237,500	\$8,019,000	\$4,495,500	\$5,832,000	\$2,916,000	
FY20	1182	River	Worn	High	Signals	Rehab Worn or Defective Cables	\$513,480	\$243,903	\$101,669	\$56,996	\$73,941	\$36,971	
FY20	1173	Montalvo	Worn	High	Signals	Rehab Worn or Defective Cables - Montalvo Sub	\$566,940					\$566,940	
FY20	1179	Pasadena	Worn	High	Grade Crossing	Grade Crossing Rehab - 2 Locations per Year	\$557,480	\$557,480					
FY20	1186	San Gabriel - SB County	Worn	High	Signals	Rehab Worn or Defective Cables	\$566,940				\$566,940		
FY20	1180	Rialto	Worn	High	Signals	Rehab Signal and Grade Crossing Cables	\$513,480				\$513,480		
FY20	1175	Orange	Worn	High	Signals	C&S Corrosion Mitigation	\$216,615		\$216,615				
FY20	1178	Pasadena	Worn	High	Grade Crossing	Rehab Worn Signal and Grade Crossing Cables	\$557,480	\$557,480					
FY20	1181	River	Worn	High	Signals	Signal System Rehab - Replace EC4 Unit at CP Mission	\$346,940	\$164,797	\$68,694	\$38,510	\$49,959	\$24,980	
FY20	1192	Ventura - VC County	Worn	High	Grade Crossing	Grade Crossing Rehab - 2 Locations per Year	\$548,600					\$548,600	
FY20	1171	All	Worn	High	Signals	Rehab C&S Maintenance Vehicles (2 Sig Vehicles)	\$150,000	\$71,250	\$29,700	\$16,650	\$21,600	\$10,800	
FY20	1187	San Gabriel - SB County	Worn	High	Grade Crossing	Grade Crossing Rehab	\$509,600				\$509,600		
FY20	1177	Orange	Worn	High	Grade Crossing	Grade Crossing Rehab - Rehab 2 Locations per Year	\$560,560		\$560,560				
FY20	1194	Ventura - VC County	Worn	High	Signals	Rehab Signal and Grade Crossing Cables	\$513,480					\$513,480	
FY20	1184	San Gabriel 60 / 40	Worn	High	Grade Crossing	Grade Crossing Rehab - 2 Locations per Year - SG Sub	\$548,600	\$329,160			\$219,440		
FY20	1193	Ventura - VC County	Worn	High	Signals	Rehab Signal and Grade Crossing Cables -Ven Sub	\$513,480					\$513,480	
FY20	1169	Olive	Worn	High	Signals	Rehab Worn or Defective Cables	\$513,480		\$513,480				
FY20	1190	Ventura - LA County	Worn	High	Grade Crossing	Grade Crossing Rehab 2 Locations per Year	\$531,800	\$531,800					
FY20	1189	Valley	Worn	High	Grade Crossing	Grade Crossing Rehab - 2 Locations per Year	\$557,480	\$557,480					
FY20	1174	Olive	Worn	High	Signals	Rehab Worn or Defective Cables - Olive Sub	\$513,480		\$513,480				
FY20	1183	San Gabriel - LA County	Worn	High	Signals	Rehab Worn or Defective Cables	\$511,940	\$511,940					
FY20	1188	Valley	Worn	High	Signals	Rehab Worn or Defective Cables	\$511,940	\$511,940					
FY20	1236	All	Worn	High	Labratory Testing	SCRRA Positive Train Control Lab Systems Support and Testing	\$1,360,000	\$646,000	\$269,280	\$150,960	\$195,840	\$97,920	
FY20	1234	All	Worn	High	Signals	SCRRA Production Backoffice Systems Upgrades and Testing Support	\$815,000	\$387,125	\$161,370	\$90,465	\$117,360	\$58,680	
FY20	1232	All	Marginal	High	Signals	Backoffice Hardware & Software Replacement (DOC & MOC)	\$553,500	\$262,913	\$109,593	\$61,439	\$79,704	\$39,852	
FY20	1309	Rialto	Worn	High	Grade Crossing	Phase 3 - Rehabilitation of grade crossings on the Rialto Industrial Track	\$250,000				\$250,000		
FY20	1311	River	Worn	High	Signals	Phase 3 - Signal System Rehab - CP Terminal Rehab Turnouts 3X, 5, 5X, 7, 7X and Power Switch Machines	\$1,000,000	\$475,000	\$198,000	\$111,000	\$144,000	\$72,000	
FY20	1314	All	Worn	High	Facilities	Phase 3 - Replace Car shop Jacks at CMF	\$279,620	\$132,820	\$55,365	\$31,038	\$40,265	\$20,133	
FY20	1307	Pasadena	Worn	Low	Grade Crossing	Phase 3 - Rehabilitation of grade crossings on the Pasadena Subdivision	\$1,000,000	\$1,000,000					
TOTAL							\$59,281,015	\$27,006,754	\$11,514,921	\$5,126,095	\$10,165,710	\$5,467,535	

PROJECT PROPOSALS FOR FY2019 CAPITAL BUDGET

Attachment M

ORIGINALLY INTENDED	PROJECT #	SUBDIVISION	CONDITION	IMPACT	ASSET TYPE	PROJECT	TOTAL	Metro	OCTA	RCTC	SBCTA	VCTC	OTHER (1)
FY18	219	All	n/a	n/a	Track	Central Maintenance Facility West Entrance - Phase 2	\$9,698,500	\$4,606,788	\$1,920,303	\$1,076,534	\$1,396,584	\$698,292	
FY18	1220	All	n/a	n/a		Project Study Reports and Initial Design for Capital Projects	\$1,000,000	\$475,000	\$198,000	\$111,000	\$144,000	\$72,000	
FY19	1079	All	n/a	n/a	Facilities	Electric Vehicle Charging Stations	\$461,380	\$219,156	\$91,353	\$51,213	\$66,439	\$33,219	
FY19	215	Valley	n/a	n/a	Track	Palmdale Passing Siding	\$9,380,400	\$9,380,400					
TOTAL							\$20,540,280	\$14,681,343	\$2,209,656	\$1,238,747	\$1,607,023	\$803,511	

PROJECT PROPOSALS FOR FY2020 CAPITAL BUDGET

Attachment N

ORIGINALLY INTENDED	PROJECT #	SUBDIVISION	CONDITION	IMPACT	ASSET TYPE	PROJECT	TOTAL	Metro	OCTA	RCTC	SBCTA	VCTC	OTHER (1)
FY20	398	SB Shortway	n/a	n/a	Facilities	EMF ADDITIONAL UNDERGROUND FUEL STORAGE TANKS	\$2,608,200				\$2,608,200		
FY20	1065	All	n/a	n/a	Facilities	Locomotive Test Facility CMF and EMF	\$2,298,450	\$1,091,764	\$455,093	\$255,128	\$330,977	\$165,488	
TOTAL							\$4,906,650	\$1,091,764	\$455,093	\$255,128	\$2,939,177	\$165,488	

**REHABILITATION PROJECT BALANCES CARRIED INTO FISCAL YEAR 2018**
**Attachment O**

(\$000s)

Sum of Carryover

Proj #	Subdivision	Category	Project Name	Member					UPRR\PTMISEA	OTHER	Total Carryover
				Metro	OCTA	RCTC	SBCTA	VCTC			
450097	Systemwide	PTC, C+S	Customer Information System (CIS)	17	1	1	2				21
510084	Systemwide	Facilities	Facilities Design/Outfit Melbourne MoW Facility	89	40	23	30	15			197
513006	Ventura - VC	Track	Rehab turnout @ Strathern					3			3
513007	Ventura - VC	Structures	Capacity ratings on bridges/culverts (5)					15			15
513008	Ventura - VC	Signal	Rehab/replace crossing gates, gate savers, predictors, batteries and other equipment					9			9
513009	Ventura - VC	Communication	Upgrade/Replace Wayside Communications and Remote Monitors - Ventura Subdivision (Ventura Co.)					8			8
513010	Ventura LA	Track	Rehab turnouts @ Woodman, Bernson & Raymer.	7							7
513011	Ventura LA	Structures	ROW grading and tunnel vacuuming.	3							3
513015	Valley	Structures	Determine capacity ratings on bridges/culverts.	12							12
513016	Valley	Signal	Rehab 4 M23A switches at CP Taylor.	66							66
513017	San Gabriel	Track	Transition Rails & Insulated Joints. Rehab turnouts @ Irwin, CP Bassett, CP Barranca,	21			14				35
513018	San Gabriel	Signal	Rehab Electrologic CP Marengo & CP Vista	9			6				15
513019	San Gabriel	Communication	Upgrade/Replace Comm Equipment and Wayside Comm Sites - San Gabriel Sub	119			79				198
513021	Rialto	Signal	Rialto Industry Track Grade Crossing Rehabilitation				7				7
513022	Orange	Track	Transition Rails & Insulated Joints.		128						128
513023	Orange	Structures	Rehab design analysis - San Juan Creek Bridge (Design Only)		14						14
513024	Orange	Structures	Capacity Ratings on Bridges/Culverts, ROW Grading, & Hydrology Design		28						28
513025	Orange	Signal	Rehab electrologic CP Capistrano.		212						212
513026	Orange/Olive	Signage	Rehab faded and damaged signage at 4 Stations		261						261
513027	River	Track	Transition Rails & Insulated Joints. Rehab turnouts.	28	14	8	10	5			65
513028	River	Structures	Capacity Ratings on Bridges/Culverts, ROW Grading	17	7	4	5	3			36
513029	River	Signal	Battery replace CP Terminal & CP Mission.	16	7	4	5	2			33
513030	River	Communication	Establish Comm Path Diversity at CP Locations	3	3		1				7
513031	Systemwide	Facilities	Upgrade Ground Power and Fuel Management System at CMF	27	11	6	8	4			57
513038	Systemwide	IT	Enterprise project mgmt, tracking, scheduling solution	10							10
513039	Systemwide	Sig/Veh	F550 Hyrail bucket trucks, renew brush truck generators	13	6	3	4	2			29
513040	Systemwide	MoW	Melbourne Maintenance Support Facility	10	1						11
513042	Systemwide	Signal	Install additional signal heads and signal equipment.	6	2	1	2				11
513043	Systemwide	Vehicles	Replacement of rubber-tire vehicles for field operations	6	2	1	3				12
513044	Systemwide	Vehicles	Replace rail car mover	3	1	12	15				31
513045	Systemwide	TVM	TVM Upgrades	12	5	3					20
513048	Systemwide	IT	SCRRA Fleet Plan	2							2
514001	91-LA	Signage	CMS & PA System Rehabilitation at Montebello/Commerce & Norwalk/SF Springs. I	26							26
514002	Olive	Track	Rehabilitate Wood Cross Ties on the Olive Subdivision (Quantity 1400)		84						84
514003	Orange	Communication	Communication System Upgrade from OC Sub to TCOSF or MOC		8						8
514004	Orange	Safety	Fencing Installation at San Clemente Park		10						10
514007	Orange	Track	Rehabilitate Wood Cross-Ties on Orange Sub, Split FY12-13 and FY13-14 (21,400 ties)		151						151
514008	Orange	Track	Rehabilitate Curves 17 (MT 1 & 2), 39, 40, 46 & 53 on Orange Sub.		51						51
514009	Orange/Olive	CIS/Signage	Rehab CMS & PA Systems at High Priority Stations on Orange County line. Integrate with back office :		25						25
514010	Orange/Olive	Signal	Rehabilitate /Replace/Add Crossing Gates/Gatesavers, Predictors, Batteries, Other Crossing Equipme		54						54
514012	PASADENA	Track	Pasadena Sub: Replace Timber Crossties.	5							5
514013	San Gabriel	Communication	San Gabriel Sub: PTC Communications Systems Remote Monitoring & Access Control	12			8				20
514014	San Gabriel	Safety	Fencing Installation Fontana-Beech MP 47.6. ROW Grading, Ditching and Fencing.	13			9				22
514015	San Gabriel	Signage	Rehabilitate CMS & PA at 4 Stations on the San Gabriel Subdivision. Integrate with B	9			6				15
514017	San Gabriel	Track	Rehabilitate Curves at Various Locations on the San Gabriel Subdivision.	69			46				115



514018	Valley	Communication	Valley Sub Communications Backhaul Rehabilitation	15						15
514020	Valley	Safety	Fencing Installation MP 14.7 & MP 31. Vacuum Tunnels, ROW Grading, Ditching & F	6						6
514021	Valley	Signage	CMS & PA Systems Rehabilitation on the Antelope Valley Line stations. Integrate wit	98						98
514022	Valley	Signal	Valley Sub Signal Rehab: 1 Electrologic Location and Other Crossing Work	26						26
514024	Valley	Track	Rail Replacement and Rehab Curves at Various Locations on Valley Sub	166						166
514026	Ventura LA	Signage	Rehabilitate CMS System & PA System at the Northridge Station. Integrate with Bac	30						30
514027	Ventura LA	Signal	Ventura Sub Signal Rehab (LA Co.)- Replace GCP4000 (2 loc.) and Replacement of 3 c	118						118
514030	Ventura LA	Track	Replace Rail on Curve 130, (MT 2) on Ventura Sub ( LA County)	684						684
514031	Ventura - VC	Communication	Rehabilitate Communication Systems Ventura Sub (Ventura Co), Including TCOSF and MOC Pathways.					11		11
514032	Ventura - VC	Facilities	Replace Light Fixtures and Ground Power Cables at Moorpark Layover					13		13
514033	Ventura - VC	Signage	Rehabilitate CMS & PA Systems at 3 Ventura County Stations. Integrate with Back Office Server.					41		41
514036	Ventura - VC	Track	Rehabilitate Crossing at Tapo Street in Ventura County					48		48
514038	River	Safety	Fencing Installation near 9th Street on the River Subdivision. ROW Grading, Ditching	47	20	11	14	7		99
514039	River	Signal	River Sub Signal Rehabilitation	12	5	3	4	2		25
514042	Systemwide	Facilities	Rehabilitate Drop Table and Wheel True Machine at CMF.	29	12	7	9	4		62
514043	Systemwide	Facilities	Replace Fuel Tanker Truck	82	29	16	21	11		160
514044	Systemwide	Facilities	Fueling System Improvement	10	4	2	3			20
514045	Systemwide	Facilities	Melbourne C&S Material Relocation Program (MSF Phase 3)	2						2
514046	Systemwide	IT	Electronic Ticketing System	5	2	1				8
514047	Systemwide	IT	FIS Phase 2 & Business Intelligence Solution Data Warehouse.	24	10	6	7	4		50
514048	Systemwide	IT	TAM Plan and System for FTA MAP-21 Compliance.	1						1
514049	Systemwide	IT	Design/Analysis for Replacement of Current TVM System	9	4	2	13	1		30
514055	Systemwide	Signal	System Signal: Replace Dwarf Signal Heads and Install Remote Card Readers and Vid	3	1					4
514056	Systemwide	Track	Rehabilitate CMF West Access, Tail Track and Crossing.	2						2
514057	Systemwide	Track	Systemwide Rail Grinding and Ultrasonic Rail Testing	54	23	13	16	8		114
514058	Systemwide	Vehicles	Rubber Tire Vehicle Replacement (Non-Fed) - 3 Pool Vehicles	3						3
514059	Systemwide	Vehicles	Rubber Tire Vehicle Replacement (Fed) - (3) MoW Trucks, (Approx 18) PTC Vehicles	2						2
514061	San Gabriel	Track	Rehabilitate Transition Rails & Insulated Joints on the San Gabriel Subdivision	2			2			4
514062	River	Track	Rehabilitate Insulated Joints and Replace Turnout on the River Subdivision	17	6	3	5	3		33
514063	Valley	Fencing	Lancaster Layover and Station Safety/Security Improvements	64						64
514065	Systemwide	Track	FY14 Track Measurement Systems	60	25	14	18	9		127
514066	Ventura LA VC	Structures	Tunnel 26 Drainage	121				93		214
515100	Olive	Structures	Olive Sub Culvert & Bridge Rehab at MP 3.8, 5.01 and 1.70		21					21
515102	Orange	Communication	Orange/Olive Sub: PTC Communications Systems Remote Monitoring & Access Control		11					11
515104	Orange	Structures	Orange Subdivision ROW Grading, Ditching, & Hydrology Design		13					13
515105	Orange	Structures	Orange Subdivision Culvert & Bridge Rehabilitation (9 Structures)		2,762					2,762
515106	Orange	Structures	Orange Subdivision Bridge Repair (San Juan Creek Bridge Design) and Slope Stabilization/Grading		25					25
515107	Orange	Track	Orange Subdivision Ground Penetrating Radar		14					14
515108	Orange	Track	Orange Subdivision Tie Replacement - 1,077 Spot Ties		31					31
515109	Pasadena	Signal	Pasadena Subdivision Signal Rehabilitation	4						4
515113	Riverside	Facilities	Riverside Layover Facility Improvements - DESIGN			522				522
515114	San Gabriel	Communication	San Gabriel Subdivision Communication System Rehabilitation	8			5			13
515115	San Gabriel	Signal	San Gabriel Sub Signal Rehabilitation - Upgrade 28 EC5 Units and 2 ElectroLogix	3			2			5
515117	San Gabriel	Track	San Gabriel Subdivision Ground Penetrating Radar	6			4			10
515118	San Gabriel	Track	San Gabriel Subdivision Track Rehabilitation	26			17			44
515122	Valley	Signal	Valley Subdivision Signal Rehabilitation - Crossing Cables Replacement Sierra Hwy	22						22
515123	Valley	Structures	Valley Subdivision Bridge & Culvert Replacement - Design & Construction (4 structur	675						675
515126	Valley	Track	Valley Subdivision Ground Penetrating Radar	3						3
515127	Ventura LA	Communication	Oat Mountain ATCS/VHF Relocation & Consolidation and Remote Monitors/VHF Rad	6						6
515128	Ventura LA	Signal	Ventura Sub (LA Co) Signal Rehabilitation - Upgrade GCP at Tujunga and Clybourn	94						94
515129	Ventura LA	Structures	Ventura Sub (LA Co) Bridge Repair - Design & Construction MP 461.65 Replacement :	351						351

515131	Ventura LA	Structures	Ventura Subdivision (LA Co ROW Maintenance)	71							71
515133	Ventura - VC	Communication	Tunnel 26VHF / CP Davis Communication Backhaul (Ventura - VN Co)					14			14
515134	Ventura - VC	Signal	Ventura Sub (Ven Co) Cable Replacement					6			6
515135	Ventura - VC	Structures	Ventura Sub (Ven Co) Bridge Replacement - Construction at MP 438.62					357			357
515137	Ventura - VC	Track	Rehabilitate Sequoia Street Crossing					9			9
515139	River	Signal	River Subdivision Signal Rehabilitation - Dwarf Signal Replacement	4	2		1				6
515142	River	Track	River Subdivision Ground Penetrating Radar	6	3	1	2				12
515143	River	Track	River Subdivision Rail Replacement	1							1
515144	River	Track	Rehab Rail & Ties on River Subdivision East Bank	483	201	113	146	73	2,392		3,409
515145	Systemwide	Facilities	Upgrade Sanding System at CMF	10	4	2	3	2			21
515146	Systemwide	IT	Financial Planning & Forecasting Solution - Phase 2	121	51	28	37	18			255
515148	Systemwide	Mechanical	Battery Change Out on Gen 3 Cars	30	7						37
515151	Systemwide	Mechanical	Gen 1 Rail Car Overhaul	138	166	149	193	96			742
515152	Systemwide	PTC, C+S	PTC Communication and Signal Systemwide Rehab	1							1
515154	Systemwide	Track	Track Measurement & Testing - Machine Vision & Track Infrastructure Report	6	2	1	2				11
515155	Systemwide	Track	Systemwide Rail Grinding	4	2		1				7
515159	Valley	Valley	Tunnel 25 Drainage	2							2
516050	Systemwide	Rolling Stock	Rail Car Restoration							595	595
516069	Systemwide	Facilities	Replace NOX2 Monitoring System			3	4				7
516110	Ventura - VC	Track	Ventura Sub (Ven Co) Rail Grinding					4			4
516111	Ventura - VC	Track	Ventura Sub (Ven Co) Rail Replacement					429			429
516120	Ventura - VC	Structures	Ventura Sub (Ven Co) Bridge & Culvert Rehab					468			468
516130	Ventura - VC	Signal	Ventura Sub (Ven Co) Signal Rehabilitation					76			76
516410	San Gabriel	Track	San Gabriel Sub Track Rehab				762				762
516511	Olive	Track	Olive Sub Replace Track Panels -		22						22
516530	Olive	Signal	Orange/Olive Sub Signal Engineering		209						209
516610	Orange	Track	Orange Sub Rail Grinding		189						189
516611	Orange	Track	Orange Sub Rail Replacement		1,617						1,617
516612	Orange	Track	Orange Sub Replace Track Panels		300						300
516620	Orange	Structures	Orange Sub ROW Grading/Ditching		206						206
516621	Orange	Structures	Orange Sub - San Juan Creek Bridge Design		1,891						1,891
516631	Orange/Olive	Signal	Orange/Olive Sub Signal Rehabilitation - GCP4000 (5 EA) and Gate Mechanisms (5 tot)		177						177
516640	Orange	Communication	Orange Sub Communication Rehabilitation		133						133
516819	Redlands	Track & Signal	VALLEY SUB TIE REPLACEMENT				63				63
516820	Riverside	Facilities	Downtown Riverside Layover Improvements			15					15
516930	PVL /former San Jacinto	Signal	PVL Signal Engineering			10					10
516931	PVL /former San Jacinto	Signal	PVL Signal Rehabilitation			689					689
516940	PVL /former San Jacinto	Communication	PVL Communication Rehabilitation - Remote Network Monitors at 19 Locations			31					31
517030	Systemwide	Signal	Replace Signal Maintenance Vehicles	36	15	8	11	5			75
517040	Systemwide	Comm & PTC	Back Office & PTC Lab Upgrades	1,234	514	288	374	187			2,598
517050	Systemwide	Rolling Stock	Gen 1 HVAC Overhaul (20 Bombardier Coach Cars)	152	63	36	46	23			320
517051	Systemwide	Facilities	CMF Elevator Modernization	62	26	14	19	9			130
517052	Systemwide	Facilities	CMF Drainage Redirection	757	316	177	230	115			1,594
517053	Systemwide	Facilities	EMF Parking and Track Lighting	300	125	70	91				587
517054	Systemwide	Facilities	Stabilize Canopies and Platforms at LAUS	473	197	111	143	72	265		1,261
517110	Ventura - VC	Track	Rehab 2,100 Ft Rail - Ventura Sub (Ven Co)					333			333
517120	Ventura - VC	Structures	Bridge Rehab MP 438.89 Ventura Sub (Ven Co)					138	291		429
517121	Ventura - VC	Structures	Design Bridge/Culvert MP 434.12 & 436.96					277			277
517122	Ventura - VC	Structures	Culvert Rehab MP 436.56 Ventura Sub (Ven Co)					368			368
517130	Ventura - VC	Signal	Replace Back-Up Battery Banks & Worn Underground Cables					200			200
517140	Ventura - VC	Comm & PTC	Communications Rehab - Ventura (Ven Co)					238			238

517310	Valley	Track	Tie Rehabilitation - Valley Subdivision	1,400								1,400
517320	Valley	Structures	Culvert Rehab - Valley Subdivision	673								673
517330	Valley	Signal	Rehab Train Control & Grade Crossing Signal Equipment - Valley Sub	350								350
517410	San Gabriel	Track	Rehab Ties, Turnout, Track Panels	1,186			790					1,976
517411	San Gabriel	Track	Rail Grinding - San Gabriel Sub	120			80					200
517420	San Gabriel	Structures	Replace Culvert & ROW Grading/Ditching - San Gabriel Sub	123			82					205
517430	San Gabriel	Signal	Replace Signal and Grade Crossing Components - San Gabriel Sub	240			160					400
517431	San Gabriel	Signal	Signal Rehab - San Gabriel Sub	585			390					975
517440	San Gabriel	Communication	Communications Rehab - San Gabriel Sub	105			70					175
517530	Olive	Signal	Replace Signal and Grade Crossing System Cables - Olive Sub		450							450
517610	Orange	Track	Upgrade 115 lb Rail with 136 lb Rail - Orange Subdivision		6,912							6,912
517620	Orange	Structures	Rehab Culvert / ROW Grading - Orange Sub		485							485
517640	Olive	Comm & PTC	Wayside Comm & CIS Rehab - Orange/Olive Sub		300							300
517710	River*	Track	Tie Rehabilitation - River Sub (East Bank)	943	393	220	286	143	1,913			3,899
517711	River	Track	Replace Turnouts - River Subdivision	475	198	111	144	72				1,000
517730	River	Signal	Replace Batteries, Gate Mechanisms & Install Gate Savers - River	119	50	28	36	18				250
517731	East Bank	Signal	Rehab Power Switch Machines and Cables - River (East Bank)	74	31	17	22	11	344			500
517740	East Bank	Comm & PTC	Wayside Comm & CIS Rehab - River (East Bank)	18	8	4	6	3	85			123
517940	PVL	Comm & PTC	Wayside Comm & CIS Rehab - PVL			125						125
591705	Systemwide	Vehicles	CMF Material Handling Equipment	192	80	45	58	29				405
591706	Systemwide	Vehicles	3 Hy-Rail MOW Trucks, 2 Bridge & Building Trucks and 1 MOW Gang Truck	318	133	74	97	48				670
591707	Systemwide	Communication	Rehabilitate Systemwide Network Infrastructure	116	48	27	35	18				245
591709	Systemwide	Rolling Stock	Sentinel LED Lighting Replacement	220	92	51	67	33				464
<b>TOTAL</b>				<b>14,672</b>	<b>19,761</b>	<b>3,118</b>	<b>4,853</b>	<b>4,215</b>	<b>4,734</b>	<b>1,151</b>		<b>52,504</b>

# NEW CAPITAL PROJECT BALANCES CARRIED INTO FISCAL YEAR 2018

Attachment P

(\$000s)

Subdivision	Category	Projects	Total	Metro	OCTA	RCTC	SBCTA	VCTC	Lease\ Other	State
San Gabriel	Track	860892, 417002	2,725	1,425						1,300
San Gabriel	Track	860885	2,100				334		100	1,666
San Gabriel	Track	860893, 417003	3,076	1,776						1,300
Valley	Structures	414002	670	369						301
Valley	Structures	409006	1,325							1,325
Valley	Track	417004	5,110	2,555						2,555
Systemwide	IT	TVM Project	30,488	12,985	6,857	4,822	4,024	1,800		
Systemwide	Rolling Stock	604001, 608004	4,881	4,096			785			
Systemwide	Rolling Stock	Tier 4 Projects	204,368	4,329	479		24	247	109,100	90,189
Systemwide	Other	Project Studies FY 15-16, 860900 for MTA	520	250	198			72		
Systemwide	Other	Project Studies FY 16-17, Reprogrammed to 517020 for LACMTA (\$475K)	1275	593	257	144	187	94		
Systemwide	Security	416001, 416002	2,150							2,150
Systemwide	Security	417001	5,700							5,700
<b>TOTALS</b>			<b>264,388</b>	<b>28,378</b>	<b>7,791</b>	<b>4,966</b>	<b>5,354</b>	<b>2,213</b>	<b>109,200</b>	<b>106,486</b>