



# **RIVERSIDE PUBLIC UTILITIES**

## **Board Memorandum**

---

**BOARD OF PUBLIC UTILITIES**

**DATE: JANUARY 9, 2017**

**GENERAL MANAGER'S REPORT**

**ITEM NO: 18**

# **Riverside Public Utilities**

## **Open Work Orders Greater than \$200,000**

### **As of November 30, 2016**

**Riverside Public Utilities**  
**Open Capital Work Order Summary Report - Electric Fund**  
**November 2016**

Project / Subproject or WO	Outside Design Work	Outside Field Work	Job Title	Board Approval Date	Board Approved Estimate	Job Estimate "Project/WO"	Life to Date Total as of 11/30/2016	Available Balance	Last Activity Date	Job Status (Based on Board Est.)		COMMENTS
										% Spent	% Completed	

Recap of open Work Orders/Projects with Budgeted or Actual expenditures > \$200,000

100051 / 04	no	yes	UA 21272 - Caltrans 91 HOV - Various Relocation Projects (WO 1022592 & 1119435-1119445)	01/21/11	4,321,774	4,321,774	3,564,056	757,718	11/03/16	82%	95%	WO 1119435 is in close-out phase pending as-builts. WO 1022592 & 1119445 have been closed.
080022 / 01	no	yes	Wood Streets Streetlights Phase I (WO 809099 & 0809101)	10/18/13	1,909,600	1,909,600	1,791,660	117,940	03/01/16	94%	90%	Pending street paving that will be completed by Public Works department. Anticipate completion by Summer 2017.
070016 / 07	yes	yes	T-29596 UG Electric Service to 116 Lots at Krameria Ave (WO 0704432 & 0704434)	07/20/07	500,000	500,000	468,292	31,708	03/13/14	94%	95%	The developer is pending the construction of 8 homes and electric service installations, construction is ongoing. Anticipated to be completed by first quarter of 2017.
070016 / 02	no	no	Tract 29515 Phase 2 (47 SFR) Lots 39-85 & Sewer Lift Station (WO 0702819 & 0702820)	11/16/07	345,000	345,000	344,419	581	06/01/16	100%	99%	Construction is completed. Project is in as-builts/close out phase, pending receipt of inspection/construction for formal GIS mapping and as-building.

Project 050009 : <i>Conceptual Design Of Transmission Substation</i>												
WO 642975	yes	yes	230 KV Station Conceptual Design	03/05/15	42,605,521	42,605,521	24,717,827	17,887,694	11/28/16	58%	15%	The EIR for RTRP was certified by Council on 02/05/2013. Engineering and easement acquisitions progressing. SCE seeking CPCN. RPU & SCE working jointly to obtain regulatory permits and approvals. Estimated construction start is 2nd quarter 2017.
WO 0812940	yes	yes	69 KV Station Conceptual Design	11/06/09	22,500,000	14,088,844	9,735,709	4,353,135	11/17/16	69%	99%	Construction completed 05/31/2014. 9 days ahead of schedule. Remaining work - Substation as-builts and joint pole work by AT&T along Chicago Ave.
WO 1021987	yes	yes	Phase 1A OH Installation of 3 Poles on Tenth St from Commerce to Park for the STP Project	(1)	(1)	64,000	63,362	638	03/17/11	99%	100%	Closed 08/31/2011. This WO is part of the Sub-transmission Project (STP) under project/Subproject 050009. Pending formal closure of STP project.
WO 1021988	yes	yes	Phase 1A UG Installation on Tenth St. from Commerce to Park for the STP Project	(1)	(1)	760,000	763,590	(3,590)	10/24/13	100%	100%	Closed 02/01/2012.
WO 1022853	no	yes	Phase 1B OH Distribution Work Tenth St from Park Ave to Victoria Ave	(1)	(1)	175,000	172,278	2,722	06/11/14	98%	100%	Closed 07/09/2012. This WO is part of the Sub-transmission Project (STP) under project/Subproject 050009. Pending formal closure of STP project.
WO 1022854	no	yes	Phase 1C OH Distribution Work - Pole Line from Tenth & Commerce to Twelfth St & Chicago for STP Project	07/16/10	1,500,000	1,500,000	1,734,788	(234,788)	07/24/14	116%	100%	Closed 06/18/2012. This WO is part of the Sub-transmission Project (STP) under project/Subproject 050009. Pending formal closure of STP project.
WO 1022905	no	yes	STP for Overhead to Underground at Martin Luther and Chicago, also along Ohio and Chicago Ave	(1)	(1)	500,000	500,166	(166)	10/24/13	100%	100%	Closed 03/06/2012. This WO is part of the Sub-transmission Project (STP) under project/Subproject 050009. Pending formal closure of STP project.
WO 1107488	no	no	Phase II STP - Vine St Poles	(1)	(1)	9,000	9,018	(18)	10/24/13	100%	100%	Closed 03/21/2012.
WO 1111059	yes	yes	STP Phase 2	(1)	(1)	7,000,000	5,326,618	1,673,382	10/31/14	76%	100%	Closed 10/14/2014. This WO is part of the Sub-transmission Project (STP) under project/Subproject 050009. Pending formal closure of STP project.
Total 050009 / 01:						66,702,365	43,023,356	23,679,009				

**Riverside Public Utilities**  
**Open Capital Work Order Summary Report - Electric Fund**  
**November 2016**

Project / Subproject or WO	Outside Design Work	Outside Field Work	Job Title	Board Approval Date	Board Approved Estimate	Job Estimate "Project/WO"	Life to Date Total as of 11/30/2016	Available Balance	Last Activity Date	Job Status (Based on Board Est.)		COMMENTS
										% Spent	% Completed	
WO 1704094			Initiation of Eminent Domain proceedings to acquire electrical facilities and real property interests from Southern California Edison within the City of Riverside	10/24/16	444,000	444,000	-	444,000	No activity	0%	0%	Board approved on 10/24/16.
WO 1623473			Electric Asset Management System Project, Amendment to Professional Services Agreement with Westin Engineering, Inc	05/11/16	493,000	493,000	119,820	373,180	11/08/16	24%	0%	Board approved on 07/11/2016.
WO 1619634	no	no	Electric ODMS Portion of Enterprise Agreement with OSIsoft.	05/09/16	2,312,000	2,312,000	1,402,062	909,938	10/25/16	61%	10%	Item approved by Board on 05/09/2016. Project currently underway. Estimated completion 07/31/17.
WO 1619571			Street and Landscape improvements at Plaza Substation	10/24/16	460,000	460,000	43,736	416,264	11/17/16	10%	0%	Board approved on 10/24/16.
WO 1616413		yes	Extension of Underground Conduits at Plaza Substation on Elizabeth Street	06/27/16	220,000	220,000	212,065	7,935	11/17/16	96%	80%	In construction. Conduit installation complete. Released for electrical facilities installation on 08/18/2016.
WO 1611216	yes	yes	City wide streetlight -Light emitting diode conversion program	07/25/16	1,150,000	1,150,000	3,820	1,146,180	11/17/16	0%	0%	Board approved 07/25/2016. Approved by the Land Use Committee of the City Council on 08/18/2016. Approved by the City Council on 09/06/2016. Agreement for RFP-1569 executed by City Manager on 09/09/2016. Purchase order 172414 in the amount of \$855,290 was issued to Benya Burnett Consultancy DBA Design Services Inc. on 09/28/2016. Notice to Proceed was issued on 10/3/2016. Project kick off meeting held on 11/15/2016.
WO 1607467			Replacement of Electrical Switch on Magnolia Ave. and Harrison Street.	10/24/16	230,000	230,000	28,142	201,858	11/09/16	12%	0%	Board Approved 10/24/2016 for \$230,000. Waiting for WO to be approved in UWAM. Construction to start Last week of November or first week of December.
WO 1606533		yes	Installation of Circuit Tie on Palm Avenue South of Tequesquite Avenue for Circuit 454	06/27/16	228,000	228,000	158,016	69,984	11/24/16	69%	75%	In construction. OH Installations Completed ( By RPU ) , Substructure Work Completed (By HCI). Final Cabling pending ( By RPU )
WO 1603079	yes	no	Springs & Orangecrest Substations 69 kV Breaker and Relay Replacement Project	02/19/16	1,700,000	1,700,000	171,554	1,528,446	11/28/16	10%	8%	Board Item #6 approved on 02/19/2016. Reviewing 60% drawing package.
WO 1601400	yes	yes	Professional Service Agreement for the Substation Switchgear Upgrade Project	07/25/16	5,530,000	5,530,000	56,521	5,473,479	10/20/16	1%	3%	In the process of reviewing the 30% design package. Long lead items have been approved.
WO 1525536	no	yes	Electrical Feeder Extension on Diana Ave Between Adams St and Monroe St	01/22/16	850,000	850,000	768,618	81,382	11/16/16	90%	100%	Construction complete. Pending as-builts and close out phase.
WO 1525067	no	no	Cable Rejuvenation Pilot Project--Test the treatment of underground electric cable to extend it's useful like.	07/25/16	449,000	449,000	52,149	396,851	11/17/16	12%	15%	Board approved item# 3 on 07/25/2016. In construction phase. Anticipate completion end of December 2016.
WO 1524282	no	no	Land Mobile Radio (LMR) system	09/26/16	3,000,000	3,000,000	44,699	2,955,301	11/17/16	1%	0%	Board approved on 09/26/2016.
<b>WO 1521822</b>	<b>yes</b>	<b>yes</b>	<b>Plaza Substation 4 kV to 12kV conversion Circuit 456</b>	<b>09/18/15</b>	<b>933,000</b>	<b>933,000</b>	<b>105,112</b>	<b>827,888</b>	<b>08/27/16</b>	<b>11%</b>	<b>10%</b>	<b>In construction phase.</b>
WO 1521820	no	no	Plaza Substation 4 kV to 12kV conversion Circuit 452	09/18/15	1,446,000	1,446,000	182,006	1,263,994	11/29/16	13%	0%	Board Item # 5 approved on 09/18/2015. Issued to field crew.
<b>WO 1518525</b>	<b>no</b>	<b>yes</b>	<b>Underground Electrical Installation at Jurupa Avenue Between Rutland and Crest Avenues for New Tract 28987</b>	<b>11/06/15</b>	<b>320,000</b>	<b>320,000</b>	<b>13,740</b>	<b>306,260</b>	<b>06/01/16</b>	<b>4%</b>	<b>0%</b>	<b>Still active - issued to construction - 05/31/2016. However, construction is on hold by customer.</b>
<b>WO 1514752</b>	<b>yes</b>	<b>yes</b>	<b>Mobile Substation #3 - RFP 1576</b>	<b>05/23/16</b>	<b>2,198,993</b>	<b>2,198,993</b>	<b>39,643</b>	<b>2,159,350</b>	<b>06/30/16</b>	<b>2%</b>	<b>3%</b>	<b>Reviewing 60% drawing package.</b>

**Riverside Public Utilities**  
**Open Capital Work Order Summary Report - Electric Fund**  
**November 2016**

Project / Subproject or WO	Outside Design Work	Outside Field Work	Job Title	Board Approval Date	Board Approved Estimate	Job Estimate "Project/WO"	Life to Date Total as of 11/30/2016	Available Balance	Last Activity Date	Job Status (Based on Board Est.)		COMMENTS
										% Spent	% Completed	
WO 1511213	no	yes	Load Tap Changer (LTC) Replacement, Substation Transformer Testing, and Instrumentation Upgrade Project	11/06/15	3,200,000	3,200,000	3,105,749	94,251	10/20/16	97%	99%	Closing WO
WO 1508419	no	yes	Upgrade Fiber Optic Cable Network to City Hall	06/19/15	470,000	470,000	473,490	(3,490)	11/17/16	101%	70%	Second phase to replace existing fiber in progress.
<b>WO 1504019</b>	<b>yes</b>	<b>no</b>	<b>Freeman Substation Breaker Replacement Project</b>	<b>10/03/14</b>	<b>641,121</b>	<b>641,121</b>	<b>686,556</b>	<b>(45,435)</b>	<b>09/26/16</b>	<b>107%</b>	<b>100%</b>	<b>Project completed. Work order will be closed out next month upon confirming that all outstanding invoices have been paid off.</b>
WO 1503125	no	yes	Magnolia Substation Circuit 46 4 KV to 12 KV Conversion, Overhead and Underground Project	04/17/15	1,833,000	1,833,000	1,007,259	825,741	11/29/16	55%	50%	In construction phase.
WO 1503115	no	yes	Pole and Overhead Switch Replacement on the Freeman-Kaiser-Harvey Lynn 69kV Transmission Line	12/18/15	300,000	300,000	172,383	127,617	11/03/16	57%	50%	Pending construction coordination with Customer. Material has been received.
<b>WO 1502504</b>	<b>no</b>	<b>yes</b>	<b>Riverside Substation Bay 4 Breaker Replacement Project</b>	<b>09/19/14</b>	<b>382,351</b>	<b>382,351</b>	<b>420,338</b>	<b>(37,987)</b>	<b>06/01/16</b>	<b>110%</b>	<b>100%</b>	<b>Closing WO</b>
<b>WO 1502322</b>	<b>no</b>	<b>yes</b>	<b>Underground Switch Replacement</b>	<b>11/21/14</b>	<b>245,000</b>	<b>245,000</b>	<b>264,831</b>	<b>(19,831)</b>	<b>06/01/16</b>	<b>108%</b>	<b>80%</b>	<b>All tasks are completed with the exception of Task 4 Contract Admin., still waiting for a response in regards to final invoicing from Contract Admin.</b>
WO 1501824	yes	no	Plaza Substation 4 kV to 12kV conversion Circuit 454	09/18/15	1,264,000	1,264,000	67,647	1,196,353	11/03/16	5%	5%	Addendum 1- Bid No. 7437 posted. Anticipated going to Board January 2017.
WO 1423746	no	yes	Fiber Use License Agreement With County of Riverside	01/22/16	325,000	325,000	112,207	212,793	11/17/16	35%	5%	Detail design in progress.
WO 1411795	no	yes	Magnolia4 kV to 12 kV Underground Conversion	04/02/15	2,250,000	2,250,000	1,523,312	726,688	11/18/16	68%	90%	Formal Bid #7300 - Contracted to H. Weissker Inc. Resumed construction 01/04/2016.Substructure work completed. Crew cabling /cutover ongoing.
WO 1411145	no	yes	La Colina Substation Switchgear 3 & 4 Relay Replacement Project	03/21/14	534,051	534,051	63,202	470,849	11/03/16	12%	15%	Consultant is preparing the 60% drawing design package for review
WO 1409723	no	yes	Conduit and Cable Replacement for Canyon Crest Area Circuit 1215	11/06/15	1,175,000	1,175,000	989,019	185,981	11/03/16	84%	100%	Construction complete. Pending as-builts and close out phase.
<b>WO 1326801</b>	<b>no</b>	<b>yes</b>	<b>Plaza Substation Expansion and Public Works Riverside Avenue Grade Separation Projects</b>	<b>03/21/14</b>	<b>1,446,454</b>	<b>1,446,454</b>	<b>1,227,981</b>	<b>218,473</b>	<b>07/22/16</b>	<b>85%</b>	<b>95%</b>	<b>In Construction phase. Pending cable re-installation by RPU Crews.</b>
WO 1319390	no	yes	Magnolia 4 kV to 12 kV Conversion Overhead Project	09/19/14	1,577,100	1,577,100	1,733,488	(156,388)	11/17/16	110%	94%	Underground structure work complete. Waiting for cable to be pulled.
WO 1311245	no	yes	Line Protection Relay Replacement and Substation Automation System Upgrade Project	03/21/14	1,925,805	1,925,805	1,443,348	482,457	11/17/16	75%	70%	Construction in progress.
WO 1309568	no	yes	Distribution Automation Program	01/18/13	960,000	960,000	549,094	410,906	10/06/16	57%	25%	Grid Sensor updates are being conducted for new Ingenu Network.
WO 1227700	no	yes	Magnolia - Plaza Reliability Project Phase I	11/07/14	6,700,000	6,700,000	6,670,060	29,940	10/26/16	100%	99%	Construction completed. Pending as-built.
<b>WO 1202319</b>	<b>no</b>	<b>yes</b>	<b>Riverside Ave RR Grade Separation Project</b>	<b>11/15/13</b>	<b>616,200</b>	<b>616,200</b>	<b>702,516</b>	<b>(86,316)</b>	<b>09/22/16</b>	<b>114%</b>	<b>95%</b>	<b>Construction complete. Pending As-builts and close out phase.</b>
WO 1104202	no	no	CIS Replacement Project	06/01/12	8,859,000	8,859,000	8,242,223	616,777	11/30/16	93%	88%	System is now live, working on post go-live fixes and enhancements. Project manager transferred from J. Tavaglione to W. Obeid. CIS closure plan is expected to be completed by 4th Quarter 2017.
WO 1024965	yes	yes	Electronic Security Monitoring and Access Control Project	09/16/11	5,000,000	5,000,000	5,075,671	(75,671)	11/03/16	102%	90%	As builts and close out in progress

Riverside Public Utilities  
Open Capital Work Order Summary Report - Electric Fund  
November 2016

Project / Subproject or WO	Outside Design Work	Outside Field Work	Job Title	Board Approval Date	Board Approved Estimate	Job Estimate "Project/WO"	Life to Date Total as of 11/30/2016	Available Balance	Last Activity Date	Job Status  (Based on Board Est.)		COMMENTS
										% Spent	% Completed	
WO 1024305	yes	yes	Planning, Engineering, Training & Consulting Services for Electric SCADA System Hardware & Software Upgrades	06/27/16	2,938,307	2,938,307	2,737,329	200,978	08/10/16	93%	99%	Work Completion Date was accepted on 11/16/2015. Board Item #6 was approved on 06/27/2016, added new scopes and extended terms to 11/30/2022. PO was executed 07/26/16.
WO 1020992	yes	no	Seismic Upgrades at La Colina & Hunter Substations	05/03/13	649,885	649,885	457,843	192,042	06/01/16	70%	98%	Project on hold. La Colina was completed. Minimum fix for Hunter. Hunter will be revisited later.
WO 1014286	no	no	Streeter Ave RR Grade Separation from Lantana St to Beatty Dr	10/19/12	1,338,673	1,338,673	1,547,669	(208,996)	03/01/16	116%	100%	Project completed; contractor has been paid in full(WO to be closed 11/15/2016
WO 0913192	yes	yes	Tyler Street Widening Project	08/07/15	816,000	816,000	776,217	39,783	09/22/16	95%	85%	PW Road Improvement Project: Contractor awarded with RPU Board approval, under construction.(Estimated Project completion Jan. 2017)

Total Electric Fund - Open Work Orders	141,189,679	92,642,918	48,546,761
--	-------------	------------	------------

**Notes:**  
(1) This work is part of Project 050009 & included within the \$24,000,000 authorized by PU Board.

Items in BLUE represent work orders with no activity in the last 60 days.

**Riverside Public Utilities**  
**Open Capital Work Order Summary Report - Water Fund**  
**November 2016**

Work		Board	Board		Life to Date Total			Job Status (Based on Board Est.)		Comments
Order Number	Job Title	Approval Date	Approved Estimate	Job Estimate	as of 11/30/2016	Available Balance	Last Activity Date	% Spent	% Completed	
Recap of open capital work orders with Budgeted or Actual expenditures > \$200,000										
1112059	UA 21702 - Ivy St Bridge - Caltrans SR-91 HOV Project	08/19/11	1,600,000	1,600,000	1,326,863	273,137	11/17/16	83%	100%	Project complete. Pending punch list and final project close-out.
1112062	UA 21699 - Miscellaneous Utility Relocations - Caltrans SR-91 HOV Project	11/18/11	1,555,000	1,555,000	444,279	1,110,721	11/17/16	29%	90%	Project complete. Pending punch list and final project close-out.
1202806	The Riverside North Aquifer Storage & Recovery Project	10/07/11	1,800,000	1,800,000	706,425	1,093,575	07/01/16	39%	10%	Partners Consultants reviewing validation report.
1415931	Construction of the California and Monroe Water Main Replacement Project	12/12/14	973,500	973,500	808,549	164,951	11/17/16	83%	95%	This project has 8 items that are not completed. The contractor is in litigation with the City over this project. Substantially completed on 06/27/2016. Project completed on 10/24/2016. Work order to be closed after final payment is posted. Water asset management project was separated out from the ODMS project - this update is for the Asset Management Project only. Final payment was made to consultant. Internal operations team continuing to monitor and make improvements to new processes and system as needed.
1424014	Construction of the Gratton Booster Station Replacement Project	01/23/15	1,311,100	1,311,100	1,064,156	246,944	11/17/16	81%	99%	
1424073	Water Asset Management ( Software Procurement from OSI Soft and Consulting Services from Westin Engineering Inc for Implementation of Operations Data Management System).	06/20/14	2,530,400	2,530,400	2,078,263	452,137	11/29/16	82%	90%	
1504840	Santa Ana River Habitat Conservation Plan	09/05/14	325,000	325,000	77,128	247,872	06/01/16	24%	0%	Under review.
1507007	Jasmine and Columbus 12-Inch Water Distribution Main Replacement Project	10/03/14	679,000	679,000	-	679,000	No Activity	0%	0%	Under review. Per Matt Bates keep open.
1508449	Palmyrita Well - Rehabilitation Projects For 2014-2015	11/07/14	215,000	215,000	1,769	213,231	07/31/16	1%	0%	Per Leo F. project is on hold until 2017 as staff evaluates plan for continued water operations.
1511174	Construction of the Dwight Avenue Water Main Replacement Project	08/07/15	1,930,000	1,930,000	1,290,701	639,299	11/17/16	67%	65%	Paving is complete and will close work order after the last invoice is paid.
1515505	Construction of the Ambs Drive Water Main Replacement Project	06/06/16	1,523,000	1,523,000	332,219	1,190,781	11/17/16	22%	50%	Field Forces to begin construction in summer 2016. Project is anticipated to to be completed in February 2017.
1515504	Arroyo Drive Water Main Replacement Project	11/14/16	2,040,000	2,040,000	118,737	1,921,263	11/17/16	6%	0%	Board approved project on 11/14/2016.
1515609	Construction of the Arlington Avenue & Western Avenue Water Main Replacement Project	06/06/16	1,241,000	1,241,000	249,028	991,972	06/06/16	20%	35%	Field Forces completed Phase 1 in November 2016. Phases 2 & 3 have been moved out to begin in April 2017 to coincide with Public Works paving project.
1518913	Construction of the Brockton Avenue & Palm Avenue Railroad Crossings Water Pipeline Replacement Project	08/22/16	688,000	688,000	54,127	633,873	08/22/16	8%	0%	Approved by Board on 08/22/2016. Notice to Proceed 11/07/2016.
1521905	Jackson Street Recycled Water Pipeline Phase 1	01/22/16	500,000	500,000	472,112	27,888	11/17/16	94%	99%	Phase 1 almost completed. Seeking additional funds.
1602941	Construction of the Larchwood Place Water Main Replacement Project	10/16/15	865,000	865,000	364,840	500,160	11/17/16	42%	100%	Field Forces portion complete. Public Works paving complete
1610216	Construction of the Tree Irrigation System Project	02/19/16	240,000	240,000	192,778	47,222	11/17/16	80%	92%	Contruction started 07/05/2016 and finished on 08/26/2016. Maintenance started 09/01/2016 and ends on 12/01/2016. Item approved by Board on 05/09/2016 for an additional appropriation of \$900,000 in current FY 16-17. Project currently underway. Estimated completion 07/31/2017.
1619634	Water ODMS Portion of Enterprise Agreement with OSIsoft	05/09/16	1,245,000	1,245,000	754,957	490,043	10/25/16	61%	10%	
1619730	Construction of the Tenth and Eleventh Street Water Main Replacement Project	08/22/16	1,745,000	1,745,000	261,503	1,483,497	11/17/16	15%	30%	Phase 1 (10th St.) - Field Forces complete by mid-November , Phase 2 (11th St.) to begin in January 2017, after FOL (Festival of Lights).
1703061	Construction of the Arlington Avenue 16-Inch Water Main Extension Project	11/14/16	1,339,000	1,339,000	22,284	1,316,716	11/17/16	2%	0%	Board approved on 11/14/2016.
1703247	Construction of the Interstate 215 Barton Road Interchange 48-Inch Water Pipeline Relocation and Encasement Project	09/26/16	611,000	611,000	17,190	593,810	11/17/16	3%	0%	Pre-con conducted on 10/20/16. Notice to proceed issued on 11/14/2016.
Total Water Fund - Open Work Orders					24,956,000	10,637,908	14,318,092			

Items in **blue** represent work orders with no activity in the last 60 days.



# **RIVERSIDE PUBLIC UTILITIES**

## **Board Memorandum**

---

**BOARD OF PUBLIC UTILITIES**

**DATE: JANUARY 9, 2017**

**GENERAL MANAGER'S REPORT**

**ITEM NO: 18**

# **Riverside Public Utilities**

## **Closed Work Order Reports**

### **As of November 30, 2016**

Riverside Public Utilities  
Closed Capital Work Order Summary Report - Electric Fund  
November 2016

Work Order Number	Description	Start Date	End Date	Estimated Cost	Work Order Actual	Variance	% Variance
<b>CLOSED Capital Work Orders with Budget or Actual Expenditures &gt; \$200,000</b>							
WO 1022591	UA 21979 - Caltrans 91 HOV - Arlington Ave Relocation Project	07/17/2014	07/29/2016	\$ 1,061,490	\$ 242,578	\$ 818,912	77.15%
<p><i>1) Note on Final Project Cost:</i> This work order is part of a Caltrans reimbursable project. The final project cost, less salvage and depreciation is within the approved total reimbursed work order amount. The original scope of work included all new underground distribution facilities, however during design engineering staff were able to identify and utilize existing facilities. This resulted in overall project scope reduction.</p> <p><i>2) Impact to Customer Service:</i> Replaced overhead line with underground structures and conduits. The new underground electric system has improved esthetics in the area and provide for multiple feed points to customer in the area. The additional loop system provided distribution system redundancy and will reduce outage restoration times.</p> <p><i>3) Impact to System Reliability:</i> Underground electric systems are not exposed to the elements and are less prone to outages than overhead systems. New underground conductors and padmounted facilities allow for ground-line access to electrical equipment which make for safer equipment operation.</p>							
WO 1022593	UA 21975 - Caltrans 91 HOV - Relocate Existing Electric Facilities along SR 91 at Jefferson St, Brockton Ave, Boxwood Place and 10th Street	04/01/2011	10/03/2016	\$ 1,378,434	\$ 162,529	\$ 1,215,905	88.21%
<p><i>1) Note on Final Project Cost:</i> This work order is part of a Caltrans reimbursable project. The final project cost, less salvage and depreciation is within the approved total reimbursed work order amount. The relocation work at Jefferson street, Brockton Avenue, and Boxwood Lane were not necessary and this part of the project was cancelled by Caltrans during freeway construction.</p> <p><i>2) Impact to Customer Service:</i> An electrical manhole was removed from freeway off ramp to avoid maintenance issue and disruption of traffic in the event that access to those electrical facilities were needed. Electrical facilities were rerouted to a nearby electrical vault. Traffic will no longer be impacted by any maintenance in this area since the manhole was removed..</p> <p><i>3) Impact to System Reliability:</i> System Reliability was improved since the electrical manhole was removed from the freeway ramp and will no longer have to be maintained. Electric crews will be able to operate the facilities from a safer location and restore power faster.</p>							
<b>Total Electric Fund - Closed Work Orders</b>				<u>\$ 7,043,940</u>	<u>\$ 4,654,901</u>	<u>\$ 2,389,039</u>	

Riverside Public Utilities  
Closed Capital Work Order Summary Report - Electric Fund  
November 2016

Work Order Number	Description	Start Date	End Date	Estimated Cost	Work Order Actual	Variance	% Variance
----------------------	-------------	------------	----------	-------------------	----------------------	----------	------------

**CLOSED Capital Work Orders with Budget or Actual Expenditures > \$200,000**

WO 1022588	UA 21217 - Relocation of Electric Facilities Along Caltrans 91 - 14th St.	06/18/2010	10/06/2016	\$ 2,393,030	\$ 2,167,963	\$ 225,067	9.41%
------------	---	------------	------------	--------------	--------------	------------	-------

<p><i>1) Note on Final Project Cost:</i> This work order is part of a Caltrans reimbursable project. The final project cost, less salvage and depreciation is within the approved total reimbursed work order amount.</p>							
<p><i>2) Impact to Customer Service:</i> The electric transmission pole line along the 91 freeway at 14th street was relocated to allow for the freeway expansion. The freeway expansion has added one HOV lane in each direction and additional on and off ramps to improve traffic flows in the area. No electrical outages were involved during the electrical facilities relocations, thus electric service to customers was not impacted.</p>							
<p><i>3) Impact to System Reliability:</i> Electric infrastructure, including steel and wooden poles, fixtures, conductors, and other electrical components were replaced. Transmission poles were relocated to the street right of way for easier access and operation of electrical facilities to improve overall system reliability and safety.</p>							

WO 1022589	UA 21205 - Central Ave 69kV Relocation Project Caltrans 91 HOV	01/21/2011	09/29/2016	\$ 2,210,986	\$ 2,081,831	\$ 129,155	5.84%
------------	--	------------	------------	--------------	--------------	------------	-------

<p><i>1) Note on Final Project Cost:</i> This work order is part of a Caltrans reimbursable project. The final project cost, less salvage and depreciation is within the approved total reimbursed work order amount.</p>							
<p><i>2) Impact to Customer Service:</i> The electric transmission pole line along residential backyards and near the Central Storage commercial facility were relocated to allow for the freeway expansion. The freeway expansion has added one HOV lane in each direction and additional on and off ramps to improve traffic flows in the area. No electrical outages were involved during the electrical facilities relocations, thus electric service to customers was not impacted.</p>							
<p><i>3) Impact to System Reliability:</i> Electric infrastructure, including steel and wooden poles, fixtures, conductors, and other electrical components were replaced. Transmission poles were relocated to the street right of way for easier access and operation of electrical facilities to improve overall system reliability and safety.</p>							

Riverside Public Utilities  
Closed Capital Work Order Summary Report - Water Fund  
November 2016

Work Order Number	Description	Start Date	End Date	Estimated Cost	Work Order Actual	Variance	% Variance
<b>CLOSED Capital Work Orders with Budget or Actual expenditures &gt; \$200,000</b>							
WO 1501422	Construction of the Brunton 1-R Well Project (Phase I & II)	10/17/2014	10/11/2016	\$ 2,549,900	\$ 2,313,752	\$ 236,148	9.26%
<p>1) <i>Note on Final Project Cost:</i> Cost savings of 9.3% due to unused contingencies.</p> <p>2) <i>Impact to Customer Service:</i> The well enhances RPU's ability to continue to deliver excellent water to its customers.</p> <p>3) <i>Impact to System Reliability:</i> The well has the capacity to produce 2,700 acre-feet per year (ACF), which is equivalent to approximately 16%, of potable water from the Riverside South Basin.</p>							
WO 1503563	Valverde Water Main Replacement Project	08/07/2015	11/12/2016	\$ 1,727,000	\$ 1,255,803	\$ 471,197	27.28%
<p>1) <i>Note on Final Project Cost:</i> Cost savings of about 27% due to the majority of the work was completed by in-house City Forces.</p> <p>2) <i>Impact to Customer Service:</i> The project provides upgraded services to 127 meters.</p> <p>3) <i>Impact to System Reliability:</i> The new water pipelines replaces water lines that were constructed before 1959 that had experienced 16 water leaks. The new pipelines provide new water services to a residential community and 3 local schools. In addition, the new pipelines improves fire protection to the neighborhood.</p>							
WO 1602896	Construction of the Central Avenue Water Main Replacement Project (Palm to Belinda)	10/16/2015	10/12/2016	\$ 790,000	\$ 708,384	\$ 81,616	10.33%
<p>1) <i>Note on Final Project Cost:</i> Cost savings of about 10% due to the majority of the work was completed by in-house City Forces.</p> <p>2) <i>Impact to Customer Service:</i> The project provides upgraded services to 61 meters.</p> <p>3) <i>Impact to System Reliability:</i> The new water pipelines replaces an old cast iron main that was constructed in 1937. The new pipeline provides new water services to a residential community and 2 local schools. In addition, the new pipelines improves fire protection to the neighborhood.</p>							
<b>Total Water Fund - Closed Work Orders</b>				<u>\$ 5,066,900</u>	<u>\$ 4,277,939</u>	<u>\$ 788,961</u>	