

**BID AWARDS FOR MATERIALS AND UNDERGROUND CABLE
RELATED TO 69KV RERC TO HARVEY LYNN SUBTRANSMISSION LINE
PROJECT; WORK ORDER NO. 2026813; AND CAPITAL EXPENDITURE
FOR WORK ORDER NO. 642975 IN THE AMOUNT OF \$786,000**

Riverside Public Utilities

Board of Public Utilities
June 8, 2020

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BACKGROUND

1. Construction of overhead segment of 69kV Sub-transmission line from RERC to Harvey Lynn Substation is planned to start in summer 2020
2. New 69kV RERC to Harvey Lynn sub-transmission line is part of RTRP project for which Board authorized amount increase in WO 642975 to \$71,605,521, on November 25, 2019

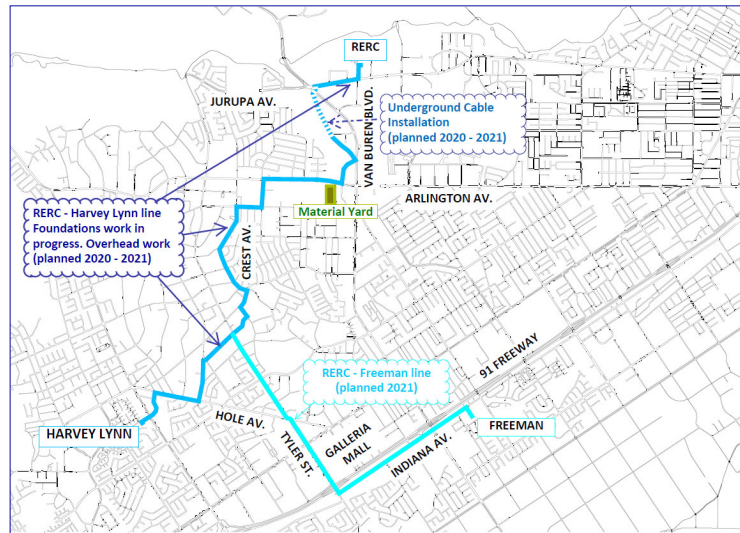


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PROJECT SITE MAP



New 69kV RERC to Harvey Lynn and RERC to Freeman sub-transmission lines

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SCOPE OF WORK

1. Construction of RERC to Harvey Lynn line segment requires purchase of following materials:
 - a) Pole line clamps, connectors, bolts
 - b) Transformers, brackets,
 - c) Capacitor banks
 - d) Faulted circuit indicators
 - e) 69kV underground cable
 - f) Miscellaneous items



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SCOPE OF WORK CONTD.

2. Materials quotes were obtained from RPU Central Stores approved vendors
3. Recommendations are based on best overall efficiency in material procurement considering lowest prices, lead times and material categories
4. Sub-transmission line construction estimated to commenced late Summer 2020

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FISCAL IMPACT

Bid No. 2016660	Vendor	Materials for RERC – Harvey Lynn Overhead linework	Total Cost
Y206787	Anixter, Inc.	Pole Line Clamps, Connectors, and Bolts	\$135,998
Y206788	OneSource Distributors, LLC	Transformers and Brackets	\$60,630
Y206789	Scott Engineering, Inc.	Capacitor Banks	\$41,484
Y206790	Wesco Distribution, Inc.	Faulted Circuit Indicators	\$33,954
Bid No. Y206791	McAvoy-Markham Engineering and Sales, Inc.	69kV Underground Cable	\$442,294
Subtotal			\$714,360
10% Contingency			\$71,436
Total Cost			\$785,796

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BILL OF MATERIALS- Bid No. RPU-2016660-EXHIBIT A, REVISION ONE Requisition No. Y206787

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BID SUMMARY Y206787 CONTINUE

---	25	EA	ANCHOR, EYE NUT FOR ROD, 7/8" DIA	MACLEAN	D6562A	57.27	\$181.75	\$8.25	\$33.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
---	10	EA	INSULATOR, FIBERGLASS SURTAIN, CLEVIS-CLEVIS WITH (2) ROLLER, 60" MINIMUM SPECIFIED LENGTH, 3/16" DIA U/LT	MACLEAN	GCC21-60R2											
10011794	12	EA	STRAIGHT BOLT/CABLE TO FLAT TERMINAL, LUG	TYCO/BAICHEN	SHVT-489-556	\$13.71	\$337.10	\$36.50	\$146.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
---	12	EA	8" V-TERMINATION BRACKET	TYCO/BAICHEN	SHVT-8P	\$2,180.85	\$26,176.20	\$2,336.00	\$27,860.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2,319.50	\$27,854.40	\$0.00
---	36	EA	CABLE GRP, CLOSED SIDE WITH SINGLE EYE, 1750 KOMIL	LEWIS	OE-350-5W	\$161.62	\$1,960.44	\$181.00	\$2,172.00	\$0.00	\$0.00	\$0.00	\$0.00	\$174.77	\$1,987.22	\$0.00
---	12	EA	CONNECTOR, BOLTED TAP LUG TERMINAL	HUBBELL	TL092L	\$38.68	\$1,992.48	\$42.50	\$1,530.00	\$0.00	\$0.00	\$0.00	\$0.00	\$40.88	\$1,471.68	\$0.00
---	12	EA	CABLE GRP, CLOSED SIDE WITH SINGLE EYE, 1250 KOMIL	LEWIS	OE-112-5W	\$66.48	\$797.88	\$76.00	\$936.00	\$0.00	\$0.00	\$0.00	\$0.00	\$70.21	\$843.24	\$0.00
24003	40	EA	SHOCKLE, ANCHOR, 7/8" OPENING, 2-3/4" LONG, 5/8" PIN & COTTER, 30K U/LT	MACLEAN	ASH-55	\$5.40	\$218.20	\$7.15	\$286.00	\$0.00	\$0.00	\$0.00	\$0.00	\$18.64	\$247.20	\$0.00
26340	16	EA	WASHER, FLAT, 1/2"	WINZER	408.01.12	\$0.15	\$2.40	\$0.27	\$4.32	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23499	16	EA	BOLT, 1/2" X 1/2" WITH NUT	WINZER	075.04.12.1	\$0.62	\$9.90	\$1.76	\$28.16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22074	4	EA	PARALLEL, DISCOUSE W/TAPE, PRELUBED WITH PENTHTOL AND TRIP STRAP	BURNEDY	VHMC28C29	\$6.91	\$27.64	\$12.35	\$49.40	\$0.00	\$0.00	\$0.00	\$0.00	\$11.90	\$47.60	\$0.00
26446	1000	EA	WASHER, FLAT, ROUND, FOR 5/8" BOLT, GALV.	JOSLYN	J108S	\$0.22	\$220.00	\$0.25	\$150.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22311	30	EA	INSULATOR, DEAD END 15 KV W/UMMP BACK COTTER PINNED CLEVIS PIN, SILICONE	MACLEAN	DS-15M	\$9.80	\$294.00	\$10.45	\$313.50	\$0.00	\$0.00	\$0.00	\$0.00	\$12.48	\$374.40	\$0.00
21452	42	EA	FOR 81-38.4 ACIR	LINDEY	1204	\$19.78	\$1,676.76	\$42.90	\$1,801.80	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21437	75	EA	CLAMP, HOT LINE DEADEND, FOR 1/2-3/8 4 ACIR, NATIONAL TYPE	MACLEAN	ASO-484-1	\$9.22	\$691.50	\$10.55	\$641.00	\$0.00	\$0.00	\$0.00	\$0.00	\$18.14	\$649.40	\$0.00
---	175	EA	BOLTING, 5/8" BOLT, WITH 1/2" NUT	HUGHES	2727.6	\$1.25	\$218.75	\$1.25	\$218.75	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
26445	150	EA	WASHER, CURVED 3" X 3" SQUARE, 1/4" THICK, 3/4" HOLE GALV.	JOSLYN	J823	\$0.77	\$115.50	\$0.99	\$148.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
26434	750	EA	WASHER, LOCK, 5/8", DOUBLE COIL SPRING, GALV.	JOSLYN	J177	\$0.17	\$127.50	\$0.19	\$76.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
---	50	EA	BOLT, MACHINE, 5/8" X 12", SQUARE HEAD WITH NUT, GALV.	JOSLYN	J8312	\$1.20	\$60.00	\$0.25	\$247.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
---	50	EA	BOLT, MACHINE, 5/8" X 14", SQUARE HEAD WITH NUT, GALV.	JOSLYN	J8314	\$1.35	\$67.50	\$0.82	\$284.60	\$0.00	\$0.00	\$0.00	\$0.00	\$11.36	\$240.00	\$0.00
---	50	EA	BOLT, MACHINE, 5/8" X 16", SQUARE HEAD WITH NUT, GALV.	JOSLYN	J8316	\$2.03	\$101.50	\$0.42	\$282.60	\$0.00	\$0.00	\$0.00	\$0.00	\$12.13	\$263.90	\$0.00
31962	1	EA	DEAD-END, FIBER OPTIC FOR 10 CT FIBER ADDS LOW TENSION/SHORT SPANS	WINZER	999.991.101	\$0.00	\$222.99	\$4.25	\$10.625.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22347	75	EA	DEAD-END, FIBER OPTIC FOR 10 CT FIBER ADDS LOW TENSION/SHORT SPANS, 1/2-3/8 4 ACIR, NATIONAL TYPE, WITH RIGID AND THIMBLE	PLP	277.2007.C1E1	\$16.10	\$2,707.50	\$39.50	\$2,291.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21405	40	EA	CLAMP, FIBER OPTIC TANGENT, FOR 10 CT FIBER ADDS 0.378-0.625" DIAMETER	PLP	FAS.84500102	\$2.85	\$1,140.00	\$30.50	\$1,159.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
---	100	EA	WASHER, CURVED, 3" X 3" SQUARE, 1/4" THICK, 3/4" HOLE GALV.	JOSLYN	J113	\$0.94	\$94.00	\$1.00	\$60.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
29631	100	EA	LINK, FORGED, NOT DIPPED GALVANIZED, 1/2" END LINK	MACLEAN	CL-54	\$4.30	\$420.00	\$5.35	\$214.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
23511	50	EA	NUT, SQUARE, 5/8", GALV. FOR USE WITH 5/8" SQUARE HEAD BOLT	JOSLYN	J5483	\$0.38	\$19.00	\$0.35	\$7.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
						total	\$115,054.92		\$144,167.98							
						n = 8.75% tax	\$10,842.31	n = 8.75% tax	\$12,614.70							
							\$125,897.23		\$156,782.68							

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BID SUMMARY Y206788

BILL OF MATERIALS- Bid No. RPU-2016660 EXHIBIT A REVISION ONE Requirement No. Y206788

ONESOURCE QUOTE AWARD				ANIXTER		ONESOURCE		KUMAR		SCOTT MFG & ENG.		WESCO	
CITY STOCK #	QUANTITY	UNIT	DESCRIPTION	MPF	MPF CATALOG NO.	UNIT PRICE/EA	TOTAL PRICE	UNIT PRICE/EA	TOTAL PRICE	UNIT PRICE/EA	TOTAL PRICE	UNIT PRICE/EA	TOTAL PRICE
10011794	12	EA	STRAIGHT BOLT/CABLE TO FLAT TERMINAL, LUG	TYCO/BAICHEN	SHVT-489-556	\$13.71	\$337.10	\$36.50	\$146.00	\$0.00	\$0.00	\$0.00	\$0.00
---	12	EA	8" V-TERMINATION BRACKET	TYCO/BAICHEN	SHVT-8P	\$2,180.85	\$26,176.20	\$2,336.00	\$27,860.00	\$0.00	\$0.00	\$0.00	\$0.00
---	36	EA	CABLE GRP, CLOSED SIDE WITH SINGLE EYE, 1750 KOMIL	LEWIS	OE-350-5W	\$161.62	\$1,960.44	\$181.00	\$2,172.00	\$0.00	\$0.00	\$0.00	\$0.00
---	12	EA	CONNECTOR, BOLTED TAP LUG TERMINAL	HUBBELL	TL092L	\$38.68	\$1,992.48	\$42.50	\$1,530.00	\$0.00	\$0.00	\$0.00	\$0.00
---	12	EA	CABLE GRP, CLOSED SIDE WITH SINGLE EYE, 1250 KOMIL	LEWIS	OE-112-5W	\$66.48	\$797.88	\$76.00	\$936.00	\$0.00	\$0.00	\$0.00	\$0.00
24003	40	EA	SHOCKLE, ANCHOR, 7/8" OPENING, 2-3/4" LONG, 5/8" PIN & COTTER, 30K U/LT	MACLEAN	ASH-55	\$5.40	\$218.20	\$7.15	\$286.00	\$0.00	\$0.00	\$0.00	\$0.00
26340	16	EA	WASHER, FLAT, 1/2"	WINZER	408.01.12	\$0.15	\$2.40	\$0.27	\$4.32	\$0.00	\$0.00	\$0.00	\$0.00
23499	16	EA	BOLT, 1/2" X 1/2" WITH NUT	WINZER	075.04.12.1	\$0.62	\$9.90	\$1.76	\$28.16	\$0.00	\$0.00	\$0.00	\$0.00
22074	4	EA	PARALLEL, DISCOUSE W/TAPE, PRELUBED WITH PENTHTOL AND TRIP STRAP	BURNEDY	VHMC28C29	\$6.91	\$27.64	\$12.35	\$49.40	\$0.00	\$0.00	\$0.00	\$0.00
26446	1000	EA	WASHER, FLAT, ROUND, FOR 5/8" BOLT, GALV.	JOSLYN	J108S	\$0.22	\$220.00	\$0.25	\$150.00	\$0.00	\$0.00	\$0.00	\$0.00
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21452	42	EA	FOR 81-38.4 ACIR	LINDEY	1204	\$19.78	\$1,676.76	\$42.90	\$1,801.80	\$0.00	\$0.00	\$0.00	\$0.00
21437	75	EA	CLAMP, HOT LINE DEADEND, FOR 1/2-3/8 4 ACIR, NATIONAL TYPE	MACLEAN	ASO-484-1	\$9.22	\$691.50	\$10.55	\$641.00	\$0.00	\$0.00	\$0.00	\$0.00
---	175	EA	BOLTING, 5/8" BOLT, WITH 1/2" NUT	HUGHES	2727.6	\$1.25	\$218.75	\$1.25	\$218.75	\$0.00	\$0.00	\$0.00	\$0.00
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26434	750	EA	WASHER, LOCK, 5/8", DOUBLE COIL SPRING, GALV.	JOSLYN	J177	\$0.17	\$127.50	\$0.19	\$76.00	\$0.00	\$0.00	\$0.00	\$0.00
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---	50	EA	BOLT, MACHINE, 5/8" X 14", SQUARE HEAD WITH NUT, GALV.	JOSLYN	J8314	\$1.35	\$67.50	\$0.82	\$284.60	\$0.00	\$0.00	\$0.00	\$0.00
---	50	EA	BOLT, MACHINE, 5/8" X 16", SQUARE HEAD WITH NUT, GALV.	JOSLYN	J8316	\$2.03	\$101.50	\$0.42	\$282.60	\$0.00	\$0.00	\$0.00	\$0.00
31962	1	EA	DEAD-END, FIBER OPTIC FOR 10 CT FIBER ADDS LOW TENSION/SHORT SPANS	WINZER	999.991.101	\$0.00	\$222.99	\$4.25	\$10.625.00	\$0.00	\$0.00	\$0.00	\$0.00
22347	75	EA	DEAD-END, FIBER OPTIC FOR 10 CT FIBER ADDS LOW TENSION/SHORT SPANS, 1/2-3/8 4 ACIR, NATIONAL TYPE, WITH RIGID AND THIMBLE	PLP	277.2007.C1E1	\$16.10	\$2,707.50	\$39.50	\$2,291.00	\$0.00	\$0.00	\$0.00	\$0.00
21405	40	EA	CLAMP, FIBER OPTIC TANGENT, FOR 10 CT FIBER ADDS 0.378-0.625" DIAMETER	PLP	FAS.84500102	\$2.85	\$1,140.00	\$30.50	\$1,159.00	\$0.00	\$0.00	\$0.00	\$0.00
---	100	EA	WASHER, CURVED, 3" X 3" SQUARE, 1/4" THICK, 3/4" HOLE GALV.	JOSLYN	J113	\$0.94	\$94.00	\$1.00	\$60.00	\$0.00	\$0.00	\$0.00	\$0.00
29631	100	EA	LINK, FORGED, NOT DIPPED GALVANIZED, 1/2" END LINK	MACLEAN	CL-54	\$4.30	\$420.00	\$5.35	\$214.00	\$0.00	\$0.00	\$0.00	\$0.00
23511	50	EA	NUT, SQUARE, 5/8", GALV. FOR USE WITH 5/8" SQUARE HEAD BOLT	JOSLYN	J5483	\$0.38	\$19.00	\$0.35	\$7.50	\$0.00	\$0.00	\$0.00	\$0.00
						total	\$115,054.92		\$144,167.98				
						n = 8.75% tax	\$10,842.31	n = 8.75% tax	\$12,614.70				
							\$125,897.23		\$156,782.68				

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BID SUMMARY Y206789

BILL OF MATERIALS- Bid No. RPU-2016660-EXHIBIT A, REVISION ONE Requisition No. Y206789

RTRP: RIVERSIDE 69KV TRANSMISSION LINE BUILD, PHASE I (RERC-HARVEY LYNN)

RTRP: RIVERSIDE 69KV TRANSMISSION LINE BUILD, PHASE I (RERC-HARVEY LYNN)						ANIXTER		ONESOURCE		KUMAR		SCOTT MFG & ENG.		WESCO	
SCOTT MFG & ENG. QUOTE AWARD															
CITY STOCK #	ORDER QTY.	ORDER UNIT	PART DESCRIPTION	MFG	MFG CATALOG NO.	UNIT PRICE/EA	TOTAL PRICE	UNIT PRICE/EA	TOTAL PRICE	UNIT PRICE/EA	TOTAL PRICE	UNIT PRICE/EA	TOTAL PRICE	UNIT PRICE/EA	TOTAL PRICE
10013110	3	EA	CAP BANK, FULLY ASSEMBLED, 9000kva	SCOTT ENGINEERING	59224-900-12	\$21,081.05	\$62,163.10	\$22,255.00	\$64,510.00	\$0.00	\$0.00	\$19,073.00	\$56,146.00	\$0.00	\$0.00
						Plus 8.75% tax	\$5,689.18	Plus 8.75% tax	\$5,894.63			Plus 8.75% tax	\$5,337.78		
						total	\$67,852.28	total	\$70,404.63			total	\$61,483.78		

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BID SUMMARY Y206790

BILL OF MATERIALS- Bid No. RPU-2016660-EXHIBIT A, REVISION ONE Requisition No. Y206790

RTRP: RIVERSIDE 69KV TRANSMISSION LINE BUILD, PHASE I (RERC-HARVEY LYNN)

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BID SUMMARY Y206791

Requisition No. Y206791

REQUEST FOR QUOTE- 1750kcm AL 69kV UG CABLE FOR RTRP PROJECT

VENDOR	LUMP SUM AMOUNT	PLUS TAX	TOTALS	LEAD TIME
McAvoy-Markham	\$406,706.40	\$35,586.81	\$442,293.21	8 weeks
Okonite	\$460,523.65	\$40,295.82	\$500,819.47	16 weeks
General Cable	\$531,825.00	\$46,534.69	\$578,359.69	16-18 weeks

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RECOMMENDATIONS

That the Board of Public Utilities:

1. Award Bid No. RPU-2016660:

- Requisition No. Y206787 for Pole Line Clamps, Connectors, and Bolts to Anixter Inc., of Corona, California, in the amount of \$135,998;
- Requisition No. Y206788 for Transformers and Brackets to OneSource Distributors, LLC, of Oceanside, California, in the amount of \$60,630;
- Requisition No. Y206789 for Capacitor Banks to Scott Engineering, Inc., of Chino, California, in the amount of \$41,484;
- Requisition No. Y206790 for Faulted Circuit Indicators to Wesco Distribution, Inc., of Cerritos, California, in the amount of \$33,954;

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RECOMMENDATIONS

2. Award Bid No. Y206791 for 69kV Underground Cable to McAvoy & Markham Engineering and Sales Co., of Irvine, California, in the amount of \$442,294;
3. Approve Work Order No. 2026813 for tracking expenses and invoices associated with the sub transmission line short-lead time overhead materials and underground cable for the 69 kV RERC to Harvey Lynn Sub transmission line Project; and
4. Approve the capital expenditure of \$786,000 as part of the RTP Work Order 642975 within the Board approved amount of \$71,605,521 on November 25, 2019.

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