



January 15, 2016

LUTRON LIGHTING SYSTEM ESTIMATE 1
Decentralized Dimming devices

Mr. Richard Kahn
 HBRK Associates Inc.
 [Redacted]
 New York, NY 10022

Re: Zorro Ranch
 Stanley NM

Equipment	\$149,151
Labor	34,340
Sales Tax	n/a
Total	\$183,491

Below is a list of components required for a system upgrade from an older Lutron system to a new Lutron QS system. The current system is engineered using decentralized wall box dimmers and will be replaced with similar equipment. All dimmers and keypads will be a standard Decora® opening for standard cover plates.

ITEMIZED EQUIPMENT AND LABOR

<u>Qty</u>	<u>Brand</u>	<u>Model</u>	<u>Description</u>
14	Lutron	HQR-REP-120	RF system repeaters
6	Lutron	HQP6-120	QS series Homeworks microprocessor with RF link
5	Lutron	PNL-8-PWR KIT	Rail mounting for Din Rail power supply
5	Lutron	QSPS-DH-1-60	Din rail power supplies for processors and keypads
1	Lutron	QSE-IO	QS contact closure board for relay
8	Lutron	QSW-LB	Wire landing board and terminal blocks
70	Lutron	HQWA-xBRL	Wired seeTouch x Button Unit Keypad & Engraving
2	Lutron	HQRA-HxBRL	Wireless seeTouch x Button Unit Keypad, Dimmer & Engraving
127	Lutron	HQRD-6NA-WH	RF Maestro-Style 600W Auto sensing Dimmer
40	Lutron	HQRD-10ND-WH	RF Maestro-Style 1000W Dimmer
91	Lutron	HQRD-8ANS-WH	RF Maestro-Style 1000W Switch
4	Lutron	HQRD-2ANF-WH	RF Maestro-Style 4 speed ceiling fan control
19	Lutron	HQRD-RD-WH	Remote 3-Way Dimmer
6	Lutron	HQRD-RS-WH	Remote 3-Way Switch
3	Lutron	LRF2-OCR2B-P	Occupancy sensor
25	Lutron	CAR-15-HDTR	Half-Dim 15 amp outlet for dimming table and floor lamps
25	Lutron	RP-FDU-10	Replacement plug for matching dimming outlet
49	Lutron	NTR-R3R3R3-FB	Screw less multi-gang plastic cover plates
95	Lutron	NTR-R3-NFB	Screw less single gang plastic cover plates

Miscellaneous supplies: hardware, mounting supplies,

Lutron Equipment Total	149,151
INSTALLATION	
replacement of electrical devices by local electrician	by others
Install new wiring using existing conduits	by others
System discovery and engineering including full wire ID and termination	5,700
Installation of all low voltage components	10,640
Installation and programming of all keypads including full engraving schedules	18,000
Sub Total	183,491
Sales Tax	n/a
Lutron QS Estimate 1	\$183,491

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TRAVEL

All travel related expenses will be invoiced as a pass-through expense with receipts for records. Travel time will be invoiced at 50% of billable rate.

SCOPE OF WORK

This estimate is to replace an existing Lutron decentralized lighting control system. This system utilizes an older style processor and older style Vareo® style wall box dimmers. This system precedes any of the windows based computer programmable systems and as such all of the hardware is incompatible with current equipment standards. Also noted is that many of the actual dimmers are failing in that pressing the dimmer instead of the master keypad does not engage the light. All dimmers will be the Lutron Mastreo® Decora® style dimmer. The dimmer is compatible with all Decora devices and cover plates. The cover plates will be the Architectural Series Lutron screw less plates. All custom plate painting by others.

All electrical devices will be installed by a local licensed electrician. All low voltage lighting keypads will be removed and wiring will be tested and identified for proper communication. Wiring between Lutron panels is essential and every effort will be made to verify that wiring exists or can be easily added. Additional equipment will be required if panel to panel wiring does not exist or cannot be installed.

ASSUMPTIONS & CONDITIONS:

- Lighting loads are functional and identifiable. Some lighting loads could not be identified during the initial site inspection test and consultation.
- All wiring to low-voltage keypads will pass a full continuity test.
- The Keypads in this estimate include a screw-less plastic cover plate. Metal screw-less cover plates are available from Lutron as a custom order product.
- Engravings should be decided upon and available for installation during conversion. Not doing so will require a second visit.
- Electrician should begin dimmer installation prior to our arrival.
- Project will require three Clarity technicians for a full week.
- Additional programming and engraving time will be required pending aforementioned assumptions and conditions.
- Unknown conditions may cause cost overages and require additional time to completion.
- Remote programming for future changes will require VPN access to the Lutron system via theWEB.

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