Ivins City Staff Report
City Council Meeting 02/01/2018

Agenda Item: Approval of purchase of a lighting system for monuments and landscaping in the Split Rock/Horse roundabout.

Submitted by: Benny Sorensen

Recommended City Council Action:

Approve expenditure of $15,796 for the purchase of a lighting system to replace the current lighting system in the Split Rock/Horse roundabout.

BACKGROUND: These monuments are the entry into Ivins, therefore we wanted to make sure that we use a high quality, energy efficient lighting control system for the monuments and for the landscape. The lighting system that we are recommending includes color LED lights that are controlled with a central light control system, so that we can adjust the light to be on at the appropriate time and at the appropriate level.

We will purchase the lighting materials and staff will install it.

FINDINGS AND ANALYSIS:

- The Luxor LZDC 300 Transformer is designed to be installed in an outdoor environment.
- The system offers the ability to set the time when lights will come on and at what level the lights will be set at. It can be set to dim the lights when needed.
- All lights are LED and will be more energy efficient and last longer than regular light bulbs.
- All lighting fixtures are designed to be installed in an outdoor environment.

SUPPORT MATERIALS:

- Product description and specifications information for light controller.
- Product description and specifications information for LED fixtures.

FINANCIAL IMPACT:

This expenditure will use RAP funding and will be included in the FYE 2017-18 budget – line item number 10-7574.0.

Respectfully Submitted: Benny Sorensen

Content Review: Dale Coulam, City Manager

Split Rock Roundabout - Lighting System features

With Luxor controlling an LED landscape lighting system, lights don't simply turn on and off. They come alive. Luxor offers both zoning and dimming capabilities that provide virtually limitless design possibilities. Zoning allows lights to be programmed into preset themes, which can be activated for special occasions such as parties, or activities such as barbequing. Dimming allows lights to automatically emit any desired illumination percentage anytime, anywhere within a system.

Main Features

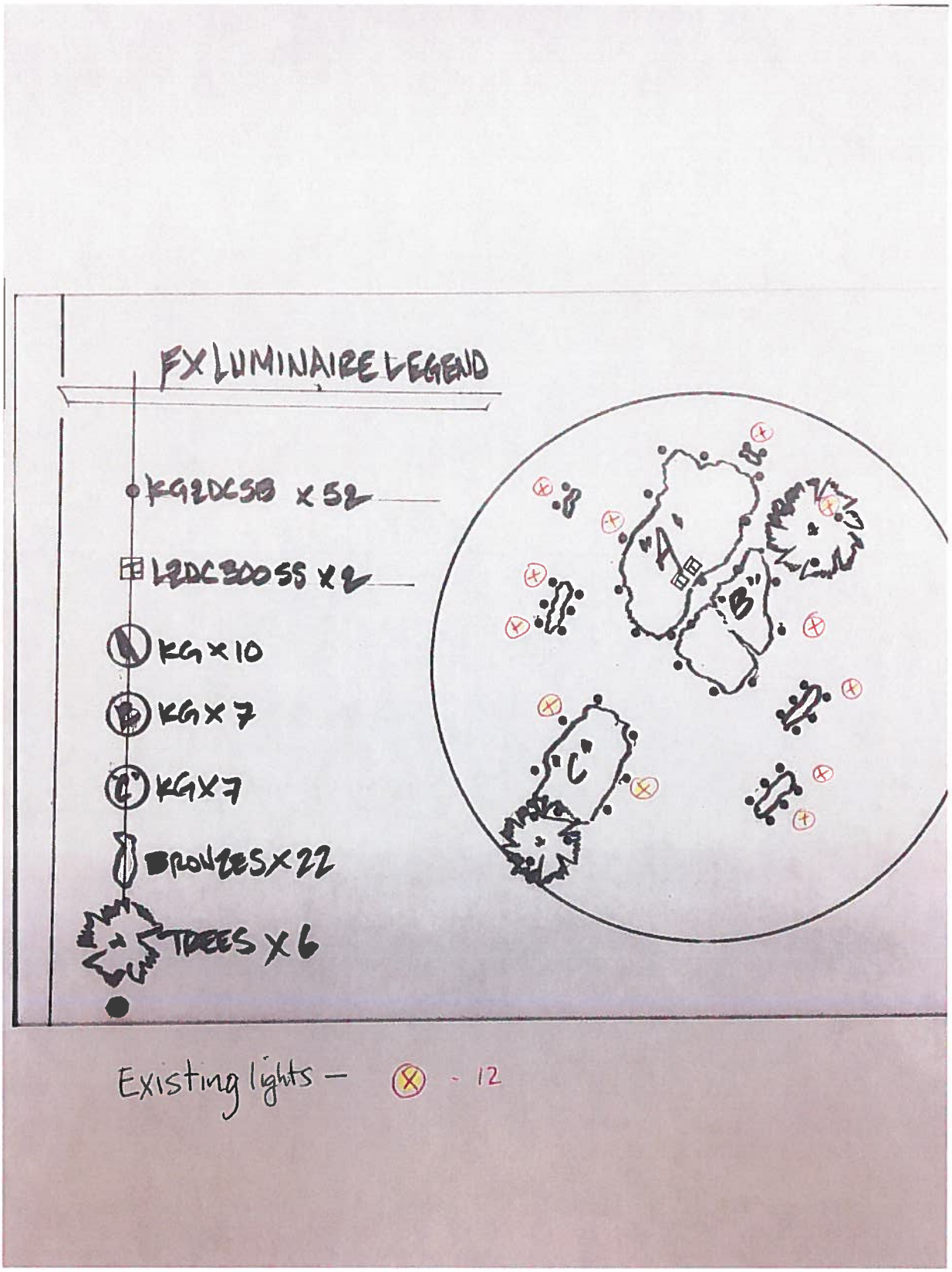
- Up to 250 independently adjustable lighting groups can be created
- Compatible only with any FX LED fixture or device with zoning, dimming, or color capabilities
- All groups can be turned on independently and dimmed from 1-100%
- User interface includes a full color LCD display for easy setup, maintenance and adjusting of groups
- Uses event-based scheduling, which allows a single group of lights to change dimming percentages throughout the night
- Optional iOS or Android control with the Wi-Fi module accessory (sold separately)
- Wirelessly assign fixtures to groups with the LAM accessory* (sold separately)

These are our current lights, they are incandescent old low voltage lights. We replace them fairly regularly (once per year) and are about $20 each.









Existing lights – ⊗ - 12

FXLuminaire

LED Lighting Controller





PROJECT

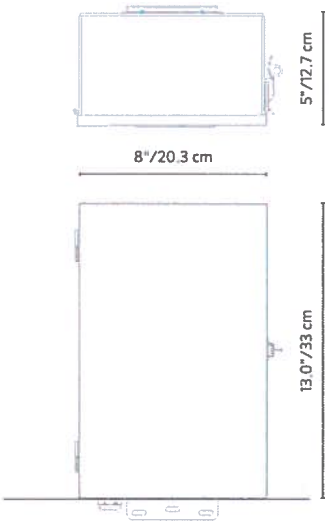
CATALOG #

TYPE

NOTES

LUXOR Controller

Lighting control with zoning and dimming capabilities, and RGBW color creation, plus optional Wi-Fi control using Luxor® technology.



Quick Facts

- 250 independent lighting zones, no matter the wiring configuration
- Adjust intensity from 0-100%
- 30,000 color options per zone (ZDC only)
- Compatible with FXL integrated LED fixtures
- Event-based scheduling
- Optional iOS or Android control
- Luxor linking compatible
- Wireless fixture assignment
- Astronomical timing
- Full color LCD display
- 304 stainless steel and powder coated galvanized construction

LUXOR Controller SPECIFICATIONS

Output

Power	150 Watt	300 Watt
Input Primary	120 volts 60hz	120 volts 60hz
Input Amperage Primary	1.48	2.68
Output Voltage secondary	14VAC	14VAC
Maximum open circuit volts	15V	15V
Class	2	2

FX Luminaire
FX Luminaire is an industry-leading manufacturer of landscape and architectural lighting products with a focus on the advancement of LED technology and digital lighting control with zoning, dimming and color adjustment capabilities. We offer a full spectrum of highly efficient lighting fixtures that are being used to create elegant landscape lighting systems for commercial or residential application. Our products are available exclusively via our extensive professional distributor network.

Materials
304 stainless steel and powder coat galvanized steel outer box and latch.

Programming
Create up to 250 independently adjustable lighting zones. Control each zone independently with separate on/off times, various intensities (1-100 percent in 1 percent increments).

Linking
Luxor Linking offers an easy way to expand a multi-controller site. Add up to nine satellite units, which are all managed from a single point of control. The maximum hardwire (Cat5) connection between the primary and furthest satellite controller is 3,000 feet.

Compatible devices
Only fixtures or devices with ZD and ZDC Technology® are compatible with the Luxor controller. Devices have varying levels of control, including: 1) zoning, or 2) zoning/dimming.

Mix and match fixtures and devices with varying levels of control technology on a single system.

Fixture Assignment
Assign fixtures to zone number manually via assignment ports on facepack or wirelessly via light assignment module (specify LAM and network accessories separately).

Wi-Fi Connectivity
Connect to Wi-Fi or a network router by using Wi-Fi or LAN module accessories. Optional "Direct Connect" mode allows devices to connect directly to a single controller without using Wi-Fi or a network router.

Wiring
Heavy-gauge, grounded, water-resistant power cord with integrally molded plug; 5-foot length.

Standard low voltage lighting wire required (e.g. 12-2, 10-2, etc.) between controller and fixtures. No additional communication wire is required.

Communication
Pre-installed 8" RJ-11 communication cable between facepack (i.e. user interface) and chassis (i.e. power unit). 10-foot RJ-11 cable included in shipment for remote mounting option. Specify facepack mount accessory for clean installation.

App Control
Network module required. Specify LAN accessory or Wi-Fi accessory depending on site needs. "FX Luxor" app is available for iOS and Android devices.

Control via app available for onsite adjustability.

Power
Input: 120VAC 60Hz.

Output: 14VAC.

Finish
Standard stainless steel finish and matte gray powder coat.

Weight
15.1 lbs. (150W), 23.1 lbs. (300W)

Hardware
Two 1-½-inch pan head machined mounting screws with plastic anchors. Stainless steel mounting brackets attached to transformer box.

Ambient Operating Temperature
0°F to 140°F

Sustainability
Innovation meets conservation in the design and manufacturing of our products. Where we can, we use recycled materials while maintaining the highest quality and functionality. Our LED products provide high-quality light at optimal energy efficiency, lifespan, and durability.

Installation Requirements
Designed for installation on a vertical surface in the upright position only.

Warranty
10-year limited warranty

Listings
Intertek 4003158
RoHS COMPLIANT

LUXOR Controller ORDERING INFORMATION

Item	Wattage	Int'l Option	Finish
LZD *Zoning/Dimming*	**150** *150 Watts*		**SS** *Stainless Steel*
LZDC *Zoning/Dimming/Color*	**300** *300 Watts*	**E** *230V input*	**M** *Matte Gray*

EXAMPLE CONTROLLER CONFIGURATION: LZDC-300-SS — LZDC - 300 - SS

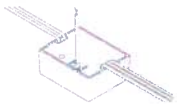
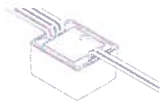
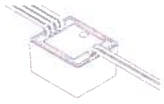
Item	Wattage	Int'l Option	Finish
LSAT *Satellite Transformer*	**300** *300 Watts*	**E** *230V input*	**SS** *Stainless Steel*
			M *Matte Gray*

EXAMPLE CONTROLLER CONFIGURATION: LSAT-300-SS — LSAT - 300 - SS

ACCESSORIES: Specify Separately

Item	Code	
LAN MODULE *for cat5 connection*	LANMOD	
WI-FI MODULE *with antenna*	WIFIMOD	
LIGHT ASSIGNMENT MODULE *for iOS & Android smartphones and tablets**	LAM	
ZD MR-16 *ZD LED Replacement Lamp*	MR16ZD-XX-Y-ZZ**	

**Not all iOS & Android devices will work with the LAM.*
*** XX (Wattage) = 20 (20 Watt) or 35 (35 Watt)*
Y (Color Temp) = W (Warm - 2700k) or C (Cool - 3900k)
ZZ (Beam Angle) = VN (10 °)/NF (25°)/ FL (35 °)/WF (60°)

LINE VOLTAGE CUBE *Supports AC dimmable LEDs and incandescent. MAX LOAD: 400W/3.3A*	LCM-HV	
LOW VOLTAGE CUBE *Supports AC dimmable LEDs and incandescent MAX LOAD: 60W/5A*	LCM-LV	
RELAY/0-10V CUBE *Supports relay switch MAX LOAD: 250VAC/5A*	LCM-RLY-010V	
INDOOR FACEPACK MOUNT *2.2"|5.7cm x 1.5"|3.9cm*	LUXORFPMNT	