

500ft (152.4 m) TO

Q QS CONTROL LINK (SEE WIRE DESCRIPTION BELOW) (CONNECT WIRES 1, 3 AND 4. DO NOT CONNECT WIRE # 2) QS WIRING AS REQUIRED BY CONTROL LINK LENGTH

	TOTAL CONTROL LINK LENGTH	WIRE GAUGE	AVAILABLE FROM LUTRON IN ONE CABLE:	
	LESS THAN 500ft (152.4 m)	POWER (TERMINALS 1&2): 1 PAIR 18 AWG (1.0 mm²)	GRX-CBL-346S (NON-PLENUM) OR GRX-PCBL-346S (PLENUM)	
		DATA (TERMINALS 3&4): 1 PAIR 22 AWG (0.5 mm²), TWISTED AND SHIELDED*		
	500ft (152.4 m) TO	POWER (TERMINALS 1&2): 1 PAIR 12 AWG (4.0 mm²)	GRX-CBL-46L (NON-PLENUM)	

(REFER TO QS SMART PANEL POWER SUPPLY WIRING GUIDE FOR SHADE WIRING NOTES):

**LUTRON NOTES:** 

3D TYPE UNLESS OTHERWISE NOT

UTRON SERVICES

(MODEL NUMBER)

COUNT OF | SERVICE TITLE

E.E. TO CONFIRM ALL CIRCUITING REQUIREMENTS.

LUTRON FIELD SERVICE COMMISSIONING INCLUDED IN

ALL DIMMING BALLASTS TO BE LUTRON ECOSYSTEM, ECOSYSTEM H-SERIES, OR HI-LUME

ALL DIMMING DRIVERS TO BE LUTRON ECOSYSTEM DRIVERS: HI-LUME 1%; HI-LUME 1%

WITH SOFT-ON, FADE-TO-BLACK; 5-SERIES; OR HI-LUME PREMIER 0.1% UNLESS OTHERWISE

ALL SYSTEMS INITIATES AN 2 YEAR LIMITED WARRANTY. THE ELECTRICAL CONTRACTOR

MUST CONTACT LUTRON (1-844-588-7661) TO SET UP VISIT WITH 10 DAYS NOTICE.

ARCHITECT TO VERIFY QUANTITY, LOCATION & FINISH OF ALL CONTROLS.

\*ALTERNATE DATA-ONLY CABLE: USE APPROVED DATA LINK CABLE (22 AWG [0.5 mm²] TWISTED/SHIELDED) FROM BELDEN (MODEL #9461).

GRX-PCBL-46L (PLENUM)

DATA (TERMINALS 3&4): PAIR 22 AWG (0.5 mm²), TWISTED AND SHIELDEI

\*\*TOTAL LENGTH OF THE QS LINK MUST NOT EXCEED 2,000 ft (600 m)

QS SMART PANEL POWER SUPPLY (QSPS-10PNL) QS WIRING GUIDE				
MAXIMUM DEVICES	PER ONE OUTPUT	MAXIMUM DISTANCE PER ONE OUTPUT BASED ON WIRE GAUGE		
SHADES -	+ CONTROLS	12 AWG (4 mm²) QSH-CBL-L-500 QSH-CBLP-L-500	16 AWG (1.5 mm²) QSH-CBL-M-500 QSH-CBLP-M-500	18 AWG (1.0 mm²) GRX-CBL-346S-500
NONE	UP TO 8 POWER DRAW UNITS	2,000 ft (610 m)	1,000 ft (305 m)	600 ft (183 m)
QS INDIVIDUAL POWER SUPPLY (QSPS-PX-1-35V OR QSPS-J-1-35V) QS WIRING GUIDE				
MAXIMUM DEVICES	PER ONE OUTPUT	MAXIMUM DISTANCE PER ONE OUTPUT BASED ON WIRE GAUGE		
SHADES -	+ CONTROLS	12 AWG (4 mm²) QSH-CBL-L-500 QSH-CBLP-L-500	16 AWG (1.5 mm²) QSH-CBL-M-500 QSH-CBLP-M-500	18 AWG (1.0 mm²) GRX-CBL-346S-500
NONE	UP TO 8 POWER DRAW UNITS	2,000 ft	(600 m)	1,500 ft (450 m)

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QS SM	QS SMART PANEL POWER SUPPLY (QSPS-10PNL) SHADE WIRING GUIDE				
MAXIMUM DEVICES PER ONE OUTPUT			MAXIMUM DISTANCE PER ONE OUTPUT BASED ON WIRE GAUGE		
SHADES	+	CONTROLS	12 AWG (4 mm²) QSH-CBL-L-500 QSH-CBLP-L-500	16 AWG (1.5 mm²) QSH-CBL-M-500 QSH-CBLP-M-500	18 AWG (1.0 mm²) GRX-CBL-346S-500
1 QS SHADE ( DRAPERY DRIVE			500 ft (150 m)	200 ft (60 m)	125 ft (35 m)
2 SIVOIA QS ROLL ≤ 30 ft² (2.75 m²) I		UP TO 1 POWER			
3 SIVOIA QS ROLLER 64, ≤ 20 ft² (1.8 m²) EACH		DRAW UNIT	200 ft (60 m)	75 ft (20 m)	50 ft (15 m)
2 SIVOIA QS ROLL ≤ 50 ft² (4.6 m²) E	,				
QS INDIVIDUAL POWER SUPPLY (QSPS-PX-1-35V OR QSPS-J-1-50) SHADE WIRING GUID					E WIRING GUIDE
MAXIMUM DEVICES PER ONE OUTPUT		MAXIMUM DISTANCE PER ONE OUTPUT BASED ON WIRE GAUG			
SHADES	+	CONTROLS	12 AWG (4,0 mm²) QSH-CBL-L-500 QSH-CBLP-L-500	16 AWG (1,5 mm²) QSH-CBL-M-500 QSH-CBLP-M-500	18 AWG (1,0 mm²) GRX-CBL-346S-500
1 QS SHADE ( DRAPERY DRIVE		UP TO 1 POWER DRAW	250 ft (75 m)	100 ft (30 m)	50 ft (15 m)

☑ INPUT POWER (NORMAL-EMERGENCY)

(2 #16 CONDUCTOR NON-PLENUM) OR

C-PCBL-216-CL-1 (2 #16 CONDUCTOR

- ☐ INPUT POWER (NORMAL) 2 #12AWG (4 mm<sup>2</sup>)
- WIRELESS SIGNAL CLEAR CONNECT - TYPE X WIRELESS SIGNAL
- O 3 #12AWG (4 mm<sup>2</sup>) 0-10V SIGNAL: 2 #18AWG (1.0 mm<sup>2</sup>)
  - LUTRON SENSOR CABLE C-CBL-522S OTHERWISE USE 3 #22 AWG (1.0 mm²) LUTRON SENSOR CABLE C-CBL-522S

CLEAR CONNECT - TYPE A

OTHERWISE USE 4 #22 AWG (1.0 mm<sup>2</sup>)

ON PROJECT REQUIREMENTS)

- CONTACT CLOSURE SIGNAL 2 #18AWG (1.0 mm<sup>2</sup>)
- D DMX CONTROL ○ CONTACT CLOSURE SIGNAL 3 #18AWG (1.0 mm<sup>2</sup>) CAT5E OR BETTER CABLE FOR LUTRON NETWORK TERMINATED WITH RJ45 ♦ ECOSYSTEM BUS/LOOP: CONNECTORS. 328 ft (100 m) MAXIMUM LUTRON CABLE C-CBL-216-GR-1
- POWER OVER ETHERNET (POE) ETHERNET PLENUM RATED). OTHERWISE USE 2 #16 LINK. CAT5E OR BETTER CABLE FOR AWG (1.5 mm<sup>2</sup>) BY OTHERS. LUTRON NETWORK TERMINATED WITH RJ45 CONNECTORS. 328 ft (100 m) MAXIMUM T-SERIES BUS/LOOP: LUTRON CABLE C-CBL-216-GR-1 (2 #16 CONDUCTOR NON-PLENUM) C-PCBL-216-CL-1 (2 #16 CONDUCTOR
- PLENUM RATED). OTHERWISE USE 2 #16 AWG (1.5 mm<sup>2</sup>) BY OTHERS. L4 4 #16 AWG

50 ft (15.24 m) MAXIMUM RUN.

G2J KETRA G2 JUMPER CABLE (NOT PROVIDED BY LUTRON) UN-G2JXXXXXXX (REFER TO G2 SPEC SHEET FOR EXACT MODEL NUMBER BASED ON PROJECT REQUIREMENTS) LSO KETRA LSO CABLE: KETRA G2 LEADER CABLE QSH-CBL-M-500-CABLE (NON-PLENUM) OR UN-G2LXXXXXXX (REFER TO G2 SPEC QSH-CBLP-M-500-CABLE (PLENUM RATED). SHEET FOR EXACT MODEL NUMBER BASED

### WIRING NOTES

# THE FOLLOWING LINK RULES MUST BE OBSERVED FOR PROPER OPERATION:

- THIS IS A TOPOLOGY-FREE LINK (T-TAP, HOME-RUN, ETC. IS OK); REFER TO TABLE IN WIRING LEGEND FOR WIRE RUN LIMITS. IF WIRED DIFFERENTLY THAN WHAT IS SHOWN, POWER DRAW UNIT REQUIREMENTS NEED TO BE CONFIRMED; SEE POWER DRAW UNITS (PDUs) SPECIFICATION SHEET. • FOR 2-LINK EDGE PROCESSORS (QP5-2L-POE & QP5-4L-POE) PER LINK LIMITS ARE: MAXIMUM OF 512 SWITCHLEGS (DIMMED/SWITCHED OUTPUTS, DIGITALLY ADDRESSABLE
- DEVICES, A SINGLE DMX CHANNEL, CONTACT CLOSURE OUTPUTS, SHADE DRIVES). MAXIMUM OF 100 OCCUPANCY SENSORS, 100 DAYLIGHT SENSORS, AND 100 KEYPADS MAXIMUM OF 100 QS DEVICES (SUCH AS A SEETOUCH® QS KEYPAD, SMART PANEL POWER SUPPLY [QSPS-10PNL], ESN, OR QS SHADE / DRAPERY DRIVE UNIT). EDGE
- PROCESSOR COUNTS AS 1 DEVICE PER LINK. MAXIMUM OF 100 ZONES - SUCH AS A QS SHADE / DRAPERY DRIVE UNIT THE 10 OUTPUTS ON A QSPS-10PNL CANNOT EXCEED A COMBINED LENGTH OF 2,000 ft
- FOR 1-LINK EDGE PROCESSORS (QP5-1L-POE & QP6-1L) PER LINK LIMITS ARE: MAXIMUM OF 256 SWITCHLEGS (DIMMED/SWITCHED OUTPUTS, DIGITALLY ADDRESSABLE DEVICES, A SINGLE DMX CHANNEL, CONTACT CLOSURE OUTPUTS, SHADE DRIVES).
- MAXIMUM OF 100 OCCUPANCY SENSORS. 100 DAYLIGHT SENSORS. AND 100 KEYPADS MAXIMUM OF 25 QS DEVICES (SUCH AS A SEETOUCH® QS KEYPAD, SMART PANEL POWER SUPPLY [QSPS-10PNL], ESN, OR QS SHADE / DRAPERY DRIVE UNIT). EDGE PROCESSOR
- COUNTS AS 1 DEVICE PER LINK. MAXIMUM OF 100 ZONES - SUCH AS A QS SHADE / DRAPERY DRIVE UNIT. •THE 10 OUTPUTS ON A QSPS-10PNL CANNOT EXCEED A COMBINED LENGTH OF 2,000 ft

LUTRON NEEDS TO BE NOTIFIED. THIS INFORMATION IS IMPORATANT FOR PROGRAMMING THE

### ECOSYSTEM BUS/LOOP RULES THE FOLLOWING LOOP RULES MUST BE OBSERVED FOR PROPER OPERATION:

- THIS IS TOPOLOGY-FREE AND POLARITY FREE WIRING (T-TAP, HOME-RUN, ETC. IS OK). KEEP ALL THE BALLASTS/DRIVERS/MODULES IN ONE ROOM ON THE SAME LOOP WHENEVER ECOSYSTEM LOOPS ARE SHOWN ON THE LIGHTING PLANS AT TIME OF SUBMITTAL. IF THERE IS A DISCREPANCY, AND ROOMS ARE WIRED TO A DIFFERENT LOOP THAN THE ONE SHOWN,
- UP TO 64 BALLASTS/DRIVERS/MODULES PER ECOSYSTEM LOOP

#### T-SERIES LOOP RULES THE FOLLOWING LOOP RULES MUST BE OBSERVED FOR PROPER OPERATION:

- THIS IS TOPOLOGY-FREE AND POLARITY INSENSITIVE WIRING (T-TAP\_HOME-RUN\_ETC\_IS\_OK) KEEP ALL THE DRIVERS IN ONE ROOM ON THE SAME LOOP WHENEVER POSSIBLE. T-SERIES LOOPS ARE SHOWN ON THE LIGHTING PLANS AT TIME OF SUBMITTAL. IF THERE IS A DISCREPANCY, AND ROOMS ARE WIRED TO A DIFFERENT LOOP THAN THE ONE SHOWN, LUTRON NEEDS TO BE NOTIFIED. THIS INFORMATION IS IMPORTANT FOR PROGRAMMING THE SYSTEM.
- UP TO 32 T-SERIES DRIVERS PER T-SERIES LOOP A MAXIMUM OF 16 ZONES CAN BE PROGRAMMED ON EACH T-SERIES LOOP T-SERIES EQUIPMENT REQUIRES AND ATHENA SYSTEM OR QUANTUM V3.4 OR HIGHER

# ATHENA SYSTEM ETHERNET LINK

CAT6 OR BETTER ETHERNET CABLE TO BE RUN FOR SYSTEM ETHERNET LINK, TERMINATED WITH RJ45 CONNECTORS. SYSETM ETHERNET LINK WIRING USES A STANDARD ETHERNET CONNECTION. ALL WIRING MUST COMPLY WITH IEEE 802.3 STANDARDS. TOTAL LENGTH OF ETHERNET CABLE SHALL NOT EXCEED 328 FT (100M) POINT-TO-POINT. THIS APPLIES FOR INTERPROCESSOR COMMUNICATION AND COMMUNICATION LINES TO LUTRON ATHENA CLEAR CONNECT - TYPE X GATEWAYS. USE LUTRON'S Q-POE-PNL OR UNMANAGED ETHERNET SWITCHES FOR LONGER DISTANCES. LUTRON ATHENA CLEAR CONNECT - TYPE X GATEWAYS MUST BE CONNECTED TO A POE CAPABLE SWITCH THAT MEETS IEEE 802.3af-2003 OR 802.3at-2009 REQUIREMENTS.

PROCESORS CANNOT BE DAISY-CHAINED. DO NOT DAISY CHAIN PROCESSORS USING THE SECOND ETHERNET PORT. THE SECOND ETHERNET CONNECTION IS USED FOR SERVICE DIAGNOSTICS ONLY. EACH PROCESSOR MUST BE CONNECTED TO AN ETHERNET SWITCH. A MAXIMUM OF (5) ATHENA EDGE PROCESSORS MAY BE CONNECTED AS A SINGLE ATHENA SYSTEM, IN ADDITION TO UP TO (10) ATHENA CLEAR CONNECT - TYPE X GATEWAYS.

# **CLEAR CONNECT - TYPE X GENERAL NOTES:**

CONNECT OTHER EQUIPMENT.

- NOT ALL NOTES PERTAIN TO ALL PROJECTS. THE INSTALLER SHALL REVIEW ALL NOTES AND DETERMINE THEIR APPLICABILITY TO THE PROJECT. CLEAR CONNECT - TYPE X IS LUTRON'S WIRELESS MESH CONTROL PROTOCOL. A NODE IS A CLEAR CONNECT - TYPE X ENABLED WIRELESS DEVICE. 50 CLEAR CONNECT - TYPE X DEVICES PER ATHENA CLEAR CONNECT - TYPE X GATEWAY (Q-RF).
- GATEWAY (THROUGH CONSTRUCTION) AND 25' (7.6 M) OF OTHER NODES. AT LEAST TWO NODES MUST BE WITHIN 25' (7.6 M) OF THE GATEWAY. ALL CLEAR CONNECT - TYPE X DEVICES ARE TO MAINTAIN CONSTANT HOT POWER FOR FULL FUNCTIONALITY OF THE SYSTEM. CAUTION: POSSIBLE EQUIPMENT DAMAGE IF MISWIRED. DO NOT POWER UP SYSTEM UNTIL ALL

ALL NODES TO BE INSTALLED WITHIN 71' (22 M) RANGE OF THE CLEAR CONNECT - TYPE X

#### WIRING IS VERIFIED. N3 LINEAR LUMINAIRE LINK RULES THE FOLLOWING RULES MUST BE OBSERVED FOR PROPER OPERATION:

- A MAXIMUM OF 40' OF LINEAR LIGHT SOURCES (G2, L4R, L3I) IS ALLOWED PER N3 SATELLITE. TOTAL LENGTH OF WIRE (LEADER AND JUMPER CABLES) AND LIGHT SOURCES (G2, L4R, L3I) NOT TO EXCEED 100' PER N3 SATELLITE. LINEAR LUMINAIRE LINK MUST BE DAISY-CHAINED. DO NOT HOME-RUN OR T-TAP LINK. LINEAR LUMINAIRE LINK ONLY SUPPORTS LINEAR LIGHT SOURCES (G2, L4R, L3I). DO NOT
- CONTROL SYSTEM DRAWING IS PROVIDED FOR CONCEPTUAL PURPOSES ONLY AND IS NOT INTENDED FOR CONSTRUCTION. EXACT EQUIPMENT REQUIREMENTS, INCLUDING LOCATIONS AND QUANTITIES, SHOULD BE VERIFIED IN ACCORDANCE WITH THE MOST UP-TO-DATE LIGHTING/ELECTRICAL REFLECTED CEILING PLANS, LIGHTING FIXTURE SCHEDULES, PANEL SCHEDULES, CONTROL INTENT AND SPECIFICATIONS. SHADE EQUIPMENT SHOULD BE VERIFIED IN ACCORDANCE WITH ARCHITECTURAL PLANS, SPECIFICATIONS AND WINDOW SCHEDULES/DETAILS.

LED DIMMING REQUIRES AN EXACT MATCH BETWEEN THE LED ARRAY, DRIVER AND CONTROL

LUTRON CANNOT GUARANTEE COMPATIBILITY OR PERFORMANCE WITHOUT TESTING THIS TO CONFIRM WHAT PRODUCTS LUTRON HAS AVAILABLE OR WHAT INTERFACES MAY BE REQUIRED, CALL 1-877-DIM-LED8 OR CHECK LUTRON'S PRODUCT COMPATIBILITY MATRIX ON-LINE AT WWW.LUTRON.COM/LED. TO REQUEST THE TESTING OF AN LED PRODUCT BY LUTRON MANUFACTURERS CAN FILL OUT AN LED EVALUATION REQUEST FORM ON-LINE AT WWW.LUTRON.COM/LED OR CONTACT LEDS@LUTRON.COM. LUTRON CAN GUARANTEE COMPATIBILITY AND PERFORMANCE OF LUTRON HI-LUME LED DRIVERS USED WITH APPROPRIATE LUTRON CONTROLS. PLEASE REFER TO THE SPECIFICATION SUBMITTAL SHEET FOR FURTHER INFORMATION. IF USING UNTESTED, NON-LUTRON LED DRIVERS REQUIRING 0-10V CONTROL, PERFORMANCE AND COMPATIBILITY CANNOT BE GUARANTEED BY LUTRON. PRODUCTS FOLLOWING THE IEC STANDARD 60929 ARE MORE LIKELY TO PROVIDE ACCEPTABLE PERFORMANCE RESULTS. DETERMINATION OF RESULT ACCEPTABILITY IS UP TO THE USER'S DISCRETION. IF USING UNTESTED, NON-LUTRON LED DRIVERS REQUIRING PHASE CONTROL, PERFORMANCE AND COMPATIBILITY CANNOT BE GUARANTEED BY LUTRON. ELV PRODUCTS PROVIDING HIGH END AND LOW END TRIM ADJUSTMENTS OR LUTRON HI-LUME 1% 2-WIRE DRIVERS ARE MORE LIKELY TO PROVIDE ACCEPTABLE PERFORMANCE RESULTS. DETERMINATION OF RESULT ACCEPTABILITY IS UP TO THE USER'S DISCRETION.

ON-SITE PRE-WIRE VISIT (LSC-PREWIRE)	ONSITE VISIT WITH ELECTRICAL CONTRACTOR TO DISCUSS LOGISTICAL CONSTRUCTION CONSIDERATIONS INCLUDING WIRING & MOUNTING OF SYSTEM DEVICES, CONSTRUCTION SCHEDULE, & LUTRON DOCUMENTATION. QUANTITY DICTATES THE NUMBER OF VISITS PURCHASED.
SYSTEM & NETWORK INTEGRATION CONSULTATION (LSC-INT-VISIT)	CONSULTATIVE VISIT WITH THIRD PARTY INTEGRATORS TO CONFIRM THE SPECIFIED SEQUENCE OF OPERATION & DISCUSS INTEGRATION PROCEDURES NEEDED IN ORDER TO INTEGRATE WITH LUTRON EQUIPMENT. THIS MAY INCLUDE ANY OF THE FOLLOWING THIRD PARTY SYSTEMS: BMS, BAS, IT, NON-LUTRON SHADES, BACNET, AV, OR ENERGY DASHBOARDS.
SENSOR LAYOUT & TUNING (LSC-SENS-LT)	LUTRON WILL TAKE RESPONSIBILITY FOR LUTRON-PROVIDED SENSOR PLACEMENT & PERFORMANCE BY CREATING SENSOR LAYOUTS, COORDINATING SENSOR PLACEMENT PRIOR TO & AFTER INSTALLATION DURING STARTUP. ONCE THE BUILDING IS OCCUPIED, LUTRON WILL RETURN UP TO TWO TIMES TO PERFORM SENSOR FINE-TUNING.
STA	ARTUP SUPPORT SERVICES
AFTER HOURS STARTUP (LSC-AH-SU)	STARTUP PROVIDED BETWEEN THE HOURS OF 5:00PM – 7:00AM, MONDAY - FRIDAY. THIS SCOPE OF WORK DOES NOT INCLUDE HOLIDAY OR WEEKEND WORK. ADDITIONAL FEES MAY APPLY FOR WORK TO BE COMPLETED ON WEEKENDS (FRIDAY 5:00PM – MONDAY 7:00AM).
ONSITE SCENE & LEVEL TUNING (LSC-AF-VISIT)	AN ONSITE VISIT WITH THE SPECIFIER OR CUSTOMER REPRESENTATIVE TO REVIEW DESIGN INTENT, FINE-TUNE SCENE LEVEL PROGRAMMING, AND TIMECLOCK ADJUSTMENTS.
ONSITE PERFORMANCE VERIFICATION WALKTHROUGH (LSC-WALK)	ONSITE WALKTHROUGH WITH FACILITY REPRESENTATIVES OR PROJECT COMMISSIONING AGENTS TO DEMONSTRATE THAT THE SYSTEM FUNCTIONALITY MEETS THE DESIGN INTENT. THIS MAY INCLUDE ANY OF THE FOLLOWING ONSITE ACTIVITIES – CONSULTATION/TRAINING DEMOS, FUNCTIONAL TESTING ASSISTANCE, & INVENTORY OF LUTRON EQUIPMENT.
SYSTEM PERFORMANCE VERIFICATION DOCUMENTATION (LSC-SPV-DOC)	COMPLETION OF DOCUMENTATION WHICH PROVIDES PERFORMANCE VERIFICATION CERTIFYING THE LUTRON EQUIPMENT HAS BEEN THOROUGHLY TESTED. IT SUPPORTS THE DOCUMENTATION REQUIREMENTS OF MANY BUILDING STANDARDS.
TITLE 24 ACCEPTANCE TEST VISIT (LSC-SPV-DOC-T24)	ACCEPTANCE TESTING BY A LUTRON CERTIFIED LIGHTING CONTROL ACCEPTANCE TEST TECHNICIAN (CLCATT) TO FULFILL THE REQUIRED TITLE 24 INTERIOR LIGHTING CONTROL TESTS.
Р	OST-STARTUP SERVICES
CUSTOMER-SITE SOLUTION TRAINING (LSC-TRAINING-SP)	A VISIT TO TEACH SYSTEM USERS HOW TO OPERATE AND MAINTAIN THE LIGHTING CONTROL SYSTEM.
SYSTEM OPTIMIZATION (LSC-SYSOPT-SP)	ONSITE CONSULTATIVE VISIT TO IDENTIFY & IMPLEMENT LIGHTING CONTROL ADJUSTMENTS TO SAVE ADDITIONAL ENERGY & CREATE A MORE PRODUCTIVE WORK ENVIRONMENT.
MAINTI	ENANCE & SUPPORT SERVICES
SOFTWARE MAINTENANCE AGREEMENT (LSC-SMA-SP)	PROVIDES COMPATIBILITY TESTING FOR OPERATING SYSTEMS PATCHES, WEB-BROWSER UPDATES, AND QUANTUM SOFTWARE VERSIONS. INCLUDES AN ELECTIVE FREE SOFTWARE UPGRADE LICENSE.
COMMERCIAL SYSTEMS 2-YEAR LIMITED WARRANTY (LSC-B2)	COMMERCIAL SYSTEMS 2-YEAR LIMITED WARRANTY – A 2-YEAR WARRANTY PROVIDING 100% REPLACEMENT PARTS AND 100% LUTRON DIAGNOSTIC LABOR COVERAGE WITH A FIRST-AVAILABLE RESPONSE TIME.
ENHANCED SILVER (LSC-E8S)	YEARS 1 & 2: 100% REPLACEMENT PARTS & 100% LUTRON DIAGNOSTIC LABOR COVERAGE WITH A FIRST-AVAILABLE RESPONSE TIME (SILVER PLAN); YEARS 3-5: 50% PARTS ONLY COVERAGE; YEARS 6-8: 25% PARTS ONLY COVERAGE.
ENHANCED GOLD (LSC-E8G)	YEARS 1-2: 100% REPLACEMENT PARTS & 100% LUTRON LABOR COVERAGE WITH A 72-HOUR RESPONSE TIME AND AN ANNUAL (1-DAY) SCHEDULED PREVENTATIVE MAINTENANCE VISIT (GOLD PLAN); YEARS 3-5: 50% PARTS ONLY COVERAGE; YEARS 6-8: 25% PARTS ONLY COVERAGE.
ENHANCED PLATINUM (LSC-E8P)	YEARS 1-2: 100% REPLACEMENT PARTS & 100% LUTRON LABOR COVERAGE WITH A 24-HOUR RESPONSE TIME AND AN ANNUAL (1-DAY) SCHEDULED PREVENTATIVE MAINTENANCE VISIT (GOLD PLAN); YEARS 3-5: 50% PARTS ONLY COVERAGE; YEARS 6-8: 25% PARTS ONLY COVERAGE.
SILVER TECHNOLOGY SUPPORT PLAN (LSC-SILV-IW)	AN ANNUAL SERVICE PLAN THAT COVERS 100% REPLACEMENT PARTS AND 100% LUTRON DIAGNOSTIC LABOR WITH A FIRST-AVAILABLE ONSITE OR REMOTE RESPONSE TIME.
GOLD TECHNOLOGY SUPPORT PLAN (LSC-GOLD-IW)	AN ANNUAL SERVICE PLAN THAT COVERS 100% REPLACEMENT PARTS AND 100% LUTRON LABOR WITH A 72-HOUR ONSITE OR REMOTE RESPONSE TIME. ALSO INCLUDES AN ANNUAL (1-DAY) SCHEDULED PREVENTATIVE MAINTENANCE VISIT EACH YEAR.
PLATINUM TECHNOLOGY SUPPORT PLAN (LSC-PLAT-IW)	AN ANNUAL SERVICE PLAN THAT COVERS 100% REPLACEMENT PARTS AND 100% LUTRON DIAGNOSTIC LABOR WITH A 24-HOUR ONSITE OR REMOTE RESPONSE TIME. ALSO INCLUDES AN ANNUAL (1-DAY) SCHEDULED PREVENTATIVE MAINTENANCE VISIT EACH YEAR.
PREVENTIVE MAINTENANCE VISIT(S) (LSC-SCH-MAINT)	YEARLY SCHEDULED MAINTENANCE VISIT TO PERFORM PREVENTIVE MAINTENANCE, MINOR PROGRAMMING, AND CONDUCT SYSTEM TRAININGS. QUANTITY IS IN ADDITION TO ANY YEARLY VISITS SPECIFIED WITH AN ENHANCED WARRANTY OR TECHNOLOGY SUPPORT PLAN.
ON-SITE BATTERY REPLACEMENT SERVICE (LSC-BATT-RPL-SP)	SCHEDULED MAINTENANCE FOR BATTERY OPERATED SENSORS & KEYPADS DURING WHICH ALL BATTERIES ARE REMOVED, RECYCLED & REPLACED. THIS IS A SINGLE USE SERVICE OCCURRING 7-8 YEARS AFTER SYSTEM STARTUP IS COMPLETE TO COINCIDE WITH APPROX. 20%-30% OF BATTERY JIFE REMAINING (ASSUMING AVERAGE USE). THIS SERVICE DOES NOT COVER INTERMITTENT BATTERY FAILURE PRIOR TO THE SCHEDULED REPLACEMENT. THIS SERVICE APPLIES TO ALL BATTERY-OPERATED SENSORS & MEYBADS OF JIRCHASED BUT OF BATTERY AND THE SCHILD OF A THE SERVICE.

SERVICE DESCRIPTION

ONSITE VISIT WITH ELECTRICAL CONTRACTOR TO DISCUSS LOGISTIC

THE COUNTS OF SERVICES BELOW ARE TO BE INCLUDED AS PART OF THIS

SPECIFIED PROJECT'S SCOPE OF WORK AND SPECIFIED INTO THE WRITTEN SPEC DOCUMEN

PRE-STARTUP SERVICES

|Project Number:

09.19.2022

**CONCEPT DRAWING** 

**NOT FOR CONSTRUCTION** 

|Drawing Revision:

LEASE GO TO WWW.LUTRON.COM/SERVICES FOR FURTHER INFORMATION.

TYPICAL ATHENA SYSTEM

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