

ADDENDUM NO. 1 – Page 1

PROJECT: WEST COMPLEX – BANQUET & SEMINAR ROOMS RENOVATIONS 2023

BID NUMBER: 23012 Date: September 22, 2022

For Bids Due: Tuesday, September 27, 2022 at 2:00 p.m.

The following clarifications, modifications, and/or revisions to the above project shall be considered a part of the original Contract Documents. It shall be the responsibility of the contractors to notify their subcontractors and/or suppliers of the clarifications, modifications and/or revisions included herein.

Item No. 1: Clarification: Project Allowances shall be included in each trade's proposal as noted.

Item No. 2: Lutron representative's contact information.

Gary Wright <u>garyw@electricalmaterialsinc.com</u> 586-484-1275

- Item No. 3: Reference attached additional Lutron control information, showing fixture schedule, panel schedule and riser diagram, including original circuiting.
- Item No. 4: Clarification: The existing dimming panel is located in Electrical Room C2E2, which is located in the corridor east of the Banquet Rooms. Relays for the new/upgraded system will be installed in this room.
- Item No. 5: Clarification: Electrical contractor shall include in their scope of work the cost of Crestron programming of the system.
- Item No. 6: Reference Drawing E1.10, Fixture Schedule, revise to read: Type A shall be a series of 4 LED strip fixtures mounted to the existing fixture metal pan; two (2) CLX L48 5000LM SEF FDL MVOLT GZI 35K 80CRI and tow (2) CLX L36 3750LM SEF FDL MVOLT GZI 35K 80CRI.

END OF ADDENDUM NO. 1

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One-Line	

©LUTRON.	7200 Suter Road Coopersburg, PA 18036, USA	Project Name: SVSU Project		Location: Saginaw, Michigan
		Quotation Number:	Created by: Gary Wright	Document Revision:

Fixture	Fixture Description	Туре	Load Type	Total Wattage	Voltage
A	Retrofit Cans	None	LED 0-10 V	Unspecified	120 V
В	RetrofitLinear	None	LED Switched	Unspecified	120 V
С	Decorative Pendant	None	LED 0-10 V	Unspecified	120 V
D	Exist Pendant	None	LED 0-10 V	440 W	277 V
D2	Retrofit Cans	None	LED 0-10 V	Unspecified	120 V
D2nd	Downlight	None	LED Switched	Unspecified	120 V
Dmini	Pendant	None	LED Forward Phase	20 W	120 V
E	Soffit	None	LED 0-10 V	Unspecified	120 V
F	Linear in grid	None	LED 0-10 V	Unspecified	277 V
J	Downlight	None	LED 0-10 V	50 W	120 V
Q	Downlight	None	LED 0-10 V	50 W	120 V
R	LED REcessed Linear	None	LED Switched	32 W	277 V
S	Sconce	None	LED Switched	30 W	277 V

LUTRON .	7200 Suter Road Coopersburg, PA 18036, USA	Project Name: SVSU Project		Location: Saginaw, Michigan
	+1.610.282.3800 Fax: +1.610.282.1146	Quotation Number:	Created by: Gary Wright	Document Revision:

Mod	Name: Banquet A -277 el Number: QSN2-4T20-S		trical room trical room\Hub 001\Link 1\1		mergency: ax Load/Circu	No 111: 5540 W	
#	Area	Zone Name	Zone Description	Voltage	Load Type	Actual Load (W)	Feed Circuit
1	Banquet A 2001	а	Existing Sconces	277 V	LED ND	270	DB2-6
2	Banquet A 2001	С	Linear	277 V	LED ND	1440	DB2-5
3	Banquet A 2001	d	Existing Pyramid	277 V	LED 0-10	1760	DB21-4
4	-	-	Spare	-	-	-	-
	Name: Banquet A & B 120 el Number: QSN2-4T20-S		trical room trical room\Hub 001\Link 1\6	E	Total Wattage mergency: ax Load/Circu	No	
#	Area	Zone Name	Zone Description	Voltage	Load Type	Actual Load (W)	Feed Circuit
1	Banquet A 2001	b	Downlights	120 V	LED 0-10	1200	DB1-1&2
2	Banquet A 2001	е	Downlights at Window	120 V	LED 0-10	600	DB1-3
3	Banquet B 2002	b	Inner Downlights	120 V	LED 0-10	1600	DB1-4-7
4	Banquet B 2002	е	Back Downlights	120 V	LED 0-10	800	DB1-?
	Types ID: LED Switched LED	0-10: LED 0-10 V					

Pa	nel Schedu	le								
		Banquet B 277 QSN2-4T20-S			etrical room etrical room\Hub (001\Link 1\5	E	mergency: lax Load/Circu	No 1it: 5540 W	1
#	Area		Zone Name		Zone Descript	on	Voltage	Load Type	Actual Load (W)	Feed Circuit
1	Banquet B	2002	а		Sconces		277 V	LED ND	300	DB2-12
2	Banquet B	2002	с		Recessed Linea	ar	277 V	LED ND	1024	DB2-11
3	Banquet B	2002	d		Existing Pendar	nt	277 V	LED 0-10	1760	DB2-7-10
4	-		-		Spare		-	-	-	-
								Total Wattage	: 3084 W/VA	
	Name: el Number:	Banquet B&C 120V QSN-4A5-S			etrical room etrical room\Hub (001\Link 1\2	E	mergency: lax Load/Circເ	No iit: Varies*'	k
#	Area		Zone Name		Zone Descript	on	Voltage	Load Type	Actual Load (W)	Feed Circuit
1	Banquet B	2002	f		Little Pyramid		120 V	LED Fwd	46	DB1-2
2	Banquet C	2003	f		Little Pyramids		120 V	LED Fwd	46	
3	-		-		Spare		-	-	-	-
4	-		-		Spare		-	-	-	
	x load/circuit de	epends on the load type and the	output number.	See the QSN-4A5-S	specification subn	nittal for details.		Total Wattage	: 92 W/VA	
	ND: LED Switc	hed LED 0-10:	LED 0-10 V	LED F	wd: LED Forward	Phase				
3 ¹¹ /2	JUTRO	7200 Suter Road	6 116 4	Project Name: SVSU	l Project		Locati	i on: Saginaw, Mic	higan	
7117 I		Coopersburg, PA 1803 +1.610.282.3800 Fax:	+1.610.282.1146	Quotation Number:		Created by: Gary Wright	Docur	nent Revision:		

mou	Name: Banquet C 120 el Number: QSN2-4T20-S		ocation: Electrical vice #: Electrical	room room\Hub 001\Link 1\4	E	mergency: lax Load/Circเ	No I it: 2400 W	
#	Area	Zone Name	Zor	e Description	Voltage	Load Type	Actual Load (W)	Feed Circuit
1	Banquet C 2003	b	Inne	er Downlights	120 V	LED 0-10	1600	DB1-8-1
2	-	-	Spa	re	-	-	-	-
3	-	-	Spa	re	-	-	-	
4	-	-	Spa	re	-	-	-	
	Name: Banquet C 277 BI Number: QSN2-4T20-S		ocation: Electrical vice #: Electrical	room room\Hub 001\Link 1\3	E	Total Wattage mergency: ax Load/Circu	No	
#	Area	Zone Name		e Description	Voltage	Load Type	Actual Load (W)	Feed
1	Banquet C 2003	а	Sco	nce	277 V	LED ND	270	DB2-12
2	Banquet C 2003	с	Rec	essed Linear	277 V	LED ND	1024	DB2-11
3	Banquet C 2003	d	Exis	ting Pendant	277 V	LED 0-10	1760	DB2-7-1
1	-	-	Spa	re	-	-	-	-
	Types	LED Switched						
	-10: LED 0-10 V LED ND:							

	nel Schedule								
	Name: Seminar el Number: QSN2-4			Electrical room Electrical room\Hub 0	01\Link 1\14	E	mergency: ax Load/Circເ	No Iit: 2400 W	
¥	Area	Zon	e Name	Zone Description	on	Voltage	Load Type	Actual Load (W)	Feed Circuit
1	Seminar E 2026	а				120 V	LED ND	-	
2	Seminar E 2026	b				120 V	LED ND	-	
3	Seminar E 2026	с				120 V	LED 0-10	-	
1	Seminar E 2026	d				120 V	LED 0-10	-	
							Total Wattage	: Unspecified	
	Name: Seminal el Number: QSN2-4			Electrical room Electrical room\Hub 0	01\Link 1\13	E	mergency: ax Load/Circເ	No iit: 2400 W	
¥	Area	Zon	e Name	Zone Description	on	Voltage	Load Type	Actual Load (W)	Feed Circuit
	Seminar E 2026	f				120 V	LED 0-10	-	
	Seminar E 2026	g				120 V	LED 0-10	-	
}	Seminar E 2026	h				120 V	LED 0-10	-	
	-			Spare		-	- Total Wattage	- : Unspecified	-
oad	Types	LED 0-10: LED 0	-10 V	Spare		- 	- Total Wattage	- : Unspecified	
oad	•••	LED 0-10: LED 0	-10 V	Spare			- Total Wattage	- : Unspecified	
oad	•••	LED 0-10: LED 0	-10 V	Spare		-	- Total Wattage	- : Unspecified	
oad	•••	LED 0-10: LED 0	-10 V	Spare		-	- Total Wattage	- : Unspecified	
.oad	•••	LED 0-10: LED 0	-10 V	Spare			- Total Wattage	- : Unspecified	
oad ED I	•••	LED 0-10: LED 0	-10 V Project Name: S			Locati	Total Wattage		

Ра	nel Schedul	e								
	N Name: S del Number: G	Seminar C QSN2-4T20-S			etrical room etrical room\Hub (001\Link 1\12	E	mergency: lax Load/Circเ	No Jit: 2400 W	
#	Area		Zone Name		Zone Descripti	on	Voltage	Load Type	Actual Load (W)	Feed Circuit
1	Seminar F 2	029	а				120 V	LED ND	-	
2	Seminar F 2	029	b				120 V	LED ND	-	
3	Seminar F 2	029	с				120 V	LED 0-10	-	
4	Seminar F 2	029	d				120 V	LED 0-10	-	
								Total Wattage	: Unspecified	
	N Name: S del Number: G	Seminar C2 QSN2-4T20-S			strical room strical room\Hub (001\Link 1\11	E N	mergency: lax Load/Circเ	No J it: 2400 W	
#	Area		Zone Name		Zone Descripti	on	Voltage	Load Type	Actual Load (W)	Feed Circuit
1	Seminar F 2	029	f				120 V	LED 0-10	-	
2	Seminar F 2	029	g				120 V	LED 0-10	-	
3	Seminar F 2	029	h				120 V	LED 0-10	-	
4	-		-		Spare		-	-	-	-
								Total Wattage	: Unspecified	l
	d Types ND: LED Switch		: LED 0-10 V							
	LUTRO	7200 Suter Road Coopersburg, PA 1803	6, USA	Project Name: SVSU	J Project			on: Saginaw, Mic	higan	
		+1.610.282.3800 Fax:	+1.610.282.1146	Quotation Number:		Created by: Gary Wright	Docur	nent Revision:		

	I Name: Seminar D2 Iel Number: QSN2-4T20-S		ectrical room ectrical room\Hub 001\Link 1\15		mergency: lax Load/Circı	No 1it: 2400 W	
#	Area	Zone Name	Zone Description	Voltage	Load Type	Actual Load (W)	Feed Circuit
1	Seminar D 2023	f	Decorative 1	120 V	LED 0-10	-	
2	Seminar D 2023	g	Decorative 2	120 V	LED 0-10	-	
3	Seminar D 2023	h	Back Table	120 V	LED 0-10	-	
4	-	-	Spare	-	-	-	-
	Name: Seminar D2 120 lel Number: QSN2-4T20-S		ectrical room ectrical room\Hub 001\Link 1\9	E	Total Wattage mergency: lax Load/Circu	No	
#	Area	Zone Name	Zone Description	Voltage		Actual Load (W)	Feed
1	Seminar G 2033	f		120 V	LED 0-10	-	
2	Seminar G 2033	g		120 V	LED 0-10	-	
3	Seminar G 2033	h		120 V	LED 0-10	-	
4	1-	-	Spare	-	-	-	-
	Types 0-10: LED 0-10 V						

Vod	Name: Seminar D 120 el Number: QSN2-4T20-S	ESN Location: QS Device #:	Electrical room Electrical room\Hub 001\Link 1\7		mergency: ax Load/Circเ	No 1it: 2400 W	
ŧ	Area	Zone Name	Zone Description	Voltage	Load Type	Actual Load (W)	Feed Circuit
1	Seminar D 2023	а	Door Entry	120 V	LED ND	-	
2	Seminar D 2023	b	Behind Screen	120 V	LED ND	-	
3	Seminar D 2023	С	ScreenLight	120 V	LED 0-10	-	
1	Seminar D 2023	d	soffit	120 V	LED 0-10	-	
ESN	Name: Seminar D 120V	ESN Location:	Electrical room	E	Total Wattage mergency:	: Unspecified	
	el Number: QSN2-4T20-S	QS Device #:	Electrical room\Hub 001\Link 1\10	N	ax Load/Circu		
ŧ	Area	Zone Name	Zone Description	Voltage	Load Type	Actual Load (W)	Feed Circuit
1	Seminar G 2033	а		120 V	LED ND	-	
2	Seminar G 2033	b		120 V	LED ND	-	
3	Seminar G 2033	С		120 V	LED 0-10	-	
4	Seminar G 2033	d		120 V	LED 0-10	-	
oad	Types ID: LED Switched LED 0-10:	LED 0-10 V					
1 D3.							

	Name: Semina I Number: QSN2-4	r D-G 277 T20-S		Location: Electer Elec	ctrical room ctrical room\Hub 001\	Link 1\8	E	mergency: ax Load/Circu	No iit: 5540 W	
#	Area	z	one Name		Zone Description		Voltage	Load Type	Actual Load (W)	Feed Circuit
1	Seminar D 2023	e	;		Linear		277 V	LED 0-10	-	
2	Seminar E 2026	e	•				277 V	LED 0-10	-	
3	Seminar F 2029	e	•				277 V	LED 0-10	-	
4	Seminar G 2033	e					277 V	LED 0-10	-	
								Total Wattage:	Unspecified	
_oad ⁻	Гурез									
	-10: LED 0-10 V									
<u>₩68</u>	.UTRON.	7200 Suter Road Coopersburg, PA 18036, U	Pr	roject Name: SVSL	J Project		Locati	on: Saginaw, Micł	higan	

NOTES ON WIRING

QS CONTROL LINK

THE QS CONTROL LINK HAS A FREE WIRING TOPOLOGY (DAISY CHAIN, T-TAP, ETC). THE SYSTEM WIRING ILLUSTRATED BY THIS DRAWING HAS BEEN LAID OUT TO ENSURE APPROPRIATE POWER TO EACH DEVICE. IF FOR ANY REASON THE SYSTEM IS TO BE WIRED DIFFERENTLY THAN WHAT IS SHOWN, PLEASE CONFIRM ALL DEVICE POWER REQUIREMENTS ARE MET (PLEASE REFER TO "QS LINK POWER REQUIREMENTS" FOR INDIVIDUAL DEVICE POWER REQUIREMENTS).

FOR QS CONTROL WIRE LENGTHS TOTALING LESS THAN 500 FT (153 M), USE LUTRON CABLE GRX-CBL-346S (4 CONDUCTOR NON-PLENUM), OR GRX-PCBL-346S (4 CONDUCTOR PLENUM). OTHERWISE USE 2 #18 AWG (1.0 SQ MM) + 2 #22 AWG (0.5 SQ MM) TWISTED AND SHIELDED OR EQUIVALENT (BELDEN #9461). FOR QS CONTROL WIRE LENGTHS TOTALING UP TO 2,000 FT, USE GRX-CBL-46L (5 CONDUCTOR NON-PLENUM) OR GRX-PCBL-46L (5 CONDUCTOR PLENUM). TOTAL QS CONTROL WIRE LENGTH MUST NOT EXCEED 2,000 FT (600 M).

QS LINK POWER REQUIRE DEVICE

QS DEVICES THAT SU

DIN RAIL POWER SUPPLY

MYROOM DIN RAIL POWER SUPPLY QS PLUG-IN POWER SUPPLY, QS J-BOX

SUPPLY ENERGI SAVR NODE WITH ECOSYSTEI SAVR NODE WITH DALI, ENERGI SAVR I T-SERIES TUNABLE-WHITE ENERGI SAVR NODE FOR 0-10 V, ENER

NODE WITH SOFTSWITCH, ENERGI SAV FOR 0-10 V (DIN RAIL), ENERGI SAVR N SOFTSWITCH (DIN RAIL) 1 A MYROOM DIN RAIL POWER MODULE SWITCHING, 1 A MYROOM DIN RAIL PO

MODULE PHASE ADAPTIVE ENERGI SAVR NODE WITH DALI (DIN RA ENERGI SAVR NODE WITH ECOSYSTEI ENERGI SAVR NODE PHASE ADAPTIVE

QS MOTOR GROUP CONTROLLER (DIN HOMEWORKS QS DIN RAIL POWER MO GRAFIK EYE QS (ALL MODELS EXCEPT EYE QS DALI WITH KNX), QS TIMECLOO

QP2 QUANTUM LIGHTING HUB

QP3 QUANTUM LIGHTING HUB

TWO PROCESSOR LIGHTING HUB (QP5

SINGLE PROCESSOR LIGHTING HUB (PROCESSOR (QP-2L) 1-LINK PROCESSOR LIGHTING HUB (QP PROCESSOR LIGHTING HUB (QP5), 1-LI PROCESSOR (QP-1L)

QS DEVICES THAT CO

QS WALLSTATION (SEETOUCH, ARCHI SIGNATURE SERIES, QS PICO, KEYSWI SINGLE COLUMN PALLADIOM), QS SLI GRAFIK T SLIDER, QS INFRARED (IR) E WALLBOX INPUT CLOSURE INTERFACE QS NETWORK INTERFACE, QS DMX INT ENERGI SAVR NODE PROGRAMMING IN QS WALLSTATION (DOUBLE COLUMN P QS SENSOR MODULE (QSM), NOT INCL ATTACHED WIRED SENSORS (SEE SEC BELOW FOR MORE INFORMATION), QS CLOSURE INTERFACE, PALLADIOM RO THERMOSTAT

GUESTROOM CONTROL UNIT

SENSORS & DEVICES THAT CC

WIRED TO A LUTRON DAYLIGHT SENSOR, LUTRON (IR) RECEIVER, PICO WIRED CONTROL

ECOSYSTEM WALLSTATION LOS C SERIES OCCUPANCY SENSOR,

OCCUPANCY SENSOR

GENERATED BY: LUTRON DESIGNER VERSION 22.4.0.7531.

EMENTS	PDUS	LUIRON	SERVICES SERVICE TITLE	
		QTY	(MODEL NUMBER)	SERVICE DESCRIPTION
SUPPLY PD			THE QUANTITY OF SERVICES	BELOW ARE TO BE INCLUDED AS PART OF THIS PROJECT'S SCOPE OF WORK AND SPECIFIED INTO THE WRITT
	+75			PRE-STARTUP ELECTIVE SERVICES
OX POWER	+30		REMOTE PRE-WIRE SESSION (LSC-PREWIRE-RMTE)	A REMOTE SESSION WHERE THE LUTRON FIELD SERVICE ENGINEER REVIEWS THE LUTRON SUBMITTAL PAC WITH THE ELECTRICAL CONTRACTOR, ANSWERS QUESTIONS, AND REVIEWS THE CONSTRUCTION TIMELINE DELIVERED USING A VIRTUAL SCREEN SHARING PLATFORM AND SHOULD NOT EXCEED 4-HOURS.
TEM, ENERGI /R NODE WITH	+30		ONSITE PRE-WIRE VISIT (LSC-PREWIRE-ONST)	AN ONSITE VISIT WHERE THE LUTRON FIELD SERVICE ENGINEER REVIEWS THE LUTRON SUBMITTAL PACKAGE THE ELECTRICAL CONTRACTOR, ANSWERS QUESTIONS, AND REVIEWS THE CONSTRUCTION TIMELINE ALON
ERGI SAVR SAVR NODE R NODE WITH	+14		POST-WIRE TERMINATION VISIT (LSC-POSTWIRE-VST)	AN ON-SITE WALK THROUGH BY A LUTRON FIELD SERVICE ENGINEER WITH THE ELECTRICAL CONTRACTOR INSTALLED AND WIRED PROPERLY, AND THE SYSTEM IS COMMUNICATING EFFICIENTLY PRIOR TO LUTRON RI VISIT IS INTENDED AS A HIGH LEVEL VERIFICATION/CONFIRMATION THAT THE LUTRON EQUIPMENT IS WIRED OR VALIDATION THAT THE ENTIRE SYSTEM WAS INSTALLED PER THE APPROVED SUBMITTAL. LUTRON WILL V FUNCTIONALITY PRIOR TO START-UP AND WILL NOTE ANY DEFICIENCIES FOR THE ELECTRICAL CONTRACTO
ULE POWER	+4		SENSOR LAYOUT & TUNING (LSC-SENS-LT)	THIS SITE VISIT. LUTRON WILL TAKE RESPONSIBILITY FOR LUTRON-PROVIDED SENSOR PLACEMENT AND PERFORMANCE BY PLACEMENT BEFORE AND AFTER INSTALLATION. ONCE THE BUILDING IS OCCUPIED, LUTRON WILL RETURN U
RAIL), ſEM (DIN RAIL)	+3		SYSTEM & NETWORK INTEGRATION CONSULTATION	A CONSULTATIVE VISIT WITH THIRD PARTY INTEGRATORS TO CONFIRM THE SPECIFIED SEQUENCE OF OPER TO INTEGRATE WITH THE LUTRON EQUIPMENT. THIS MAY INCLUDE ANY OF THE FOLLOWING THIRD PARTY SY DASHBOARDS.
VE (DIN RAIL), DIN RAIL),	0		(LSC-INT-VISIT)	STARTUP ELECTIVE SERVICES
MODULES PT GRAFIK	+3			(THESE SERVICES ARE ADDITIONAL TO YOUR SPECIFIED STARTUP BASED ON YOUR REQUIREMENTS)
.OCK	LINK A : 0 LINKS B,C,D :		ONSITE SCENE & LEVEL TUNING (LSC-AF-VISIT)	AN ONSITE VISIT WITH THE SPECIFIER OR CUSTOMER REPRESENTATIVE TO REVIEW THE DESIGN INTENT, FILTO TIMECLOCKS.
	+33 EACH LINKS A,B : +33 EACH LINKS		DYNAMIC WHITE PROGRAMMING PACKAGE (LSC-DWP-PKG)	A SPECIFIER DRIVEN PACKAGE WHICH INCLUDES ONE (1) POST WIRE TERMINATION VISIT (FOR WIRE VERIFIC PROGRAMMING ADJUSTMENTS PER THE DIRECTION OF A LIGHTING DESIGNER AND/OR A PRE-DETERMINED FINE-TUNING VISIT IS DURING NORMAL BUSINESS HOURS AND THE SECOND VISIT IS AN AFTER HOUR SITE V SESSION FOR MINOR ADJUSTMENTS. REMOTE NETWORK ACCESS IS REQUIRED FOR THE REMOTE TWO HOU INTERNET.
QP5) 3 (QP5), 2-LINK	A,B,C,D : +33 EACH LINKS A,B : +33 EACH		N WALKTHROUGH	AN ONSITE WALKTHROUGH WITH FACILITY REPRESENTATIVES OR PROJECT COMMISSIONING AGENTS TO DE INTENT. THIS MAY INCLUDE ANY OF THE FOLLOWING ONSITE ACTIVITIES – CONSULTATION/TRAINING DEMOS, EQUIPMENT.
(QP6), 1-LINK 1-LINK	LINKS A : +33 EACH		(LSC-WALK) SYSTEM PERFORMANCE-VERIFICATIO N DOCUMENTATION	COMPLETION OF DOCUMENTATION WHICH PROVIDES PERFORMANCE VERIFICATION CERTIFYING THE LUTRO DOCUMENTATION REQUIREMENTS OF MANY BUILDING STANDARDS.
CONSUME P	DU		(LSC-SPV-DOC) SYSTEM	DOCUMENTS THE TITLE 24 ACCEPTANCE TESTS REQUIRED FOR THE LIGHTING CONTROL SYSTEM AND THE
HITRAVE, WITCH, LIDER,) EYE,	-1		PERFORMANCE-VERIFICATIO N DOCUMENTATION TITLE 24 (LSC-SPV-DOC-T24)	SEPARATE VISIT AFTER ONSITE STARTUP BY LUTRON'S CALIFORNIA CERTIFIED CALCTP TECHNICIAN. UPON JOB-SPECIFIC TITLE 24 DOCUMENTATION THAT SHOWS THE RESULTS OF THE LIGHTING CONTROL SYSTEM T
INTERFACE,			AFTER HOURS STARTUP (LSC-AH-SU)	STARTUP PROVIDED BETWEEN THE HOURS OF 5:00PM – 7:00AM, MONDAY - FRIDAY. THIS SCOPE OF WORK D MAY APPLY FOR WORK TO BE COMPLETED ON WEEKENDS (FRIDAY 5:00PM – MONDAY 7:00AM).
G INTERFACE, N PALLADIOM)	-2			POST-STARTUP ELECTIVE SERVICES
ICLUDING ECTION			CUSTOMER SYSTEM ORIENTATION VISIT (LSC-CSO-VST)	AN ON-SITE VISIT WHERE THE LUTRON FIELD SERVICE ENGINEER COMES OUT 30-90 DAYS POST-OCCUPANCE USER AND PERFORMS A THOROUGH TRAINING. THE FIELD SERVICE ENGINEER WILL ENSURE THE SYSTEM USER APPROPRIATE ADJUSTMENTS. THEY WILL ALSO PROVIDE A LEAVE BEHIND SYSTEM OPTIMIZATION RECOMMENDED IN THE SYSTEM OPTIMIZED INT SYSTEM OPTIMIZED IN THE SYSTEM OPTIMIZED INT
QS CONTACT ROOM	-3		TRAINING VISIT (LSC-TRAINING-SP)	CUSTOMER-SITE SOLUTION TRAINING – THIS TRAINING VISIT IS PROVIDED BY A LUTRON SERVICES REPRESE THE LIGHTING CONTROL SYSTEM. QUANTITY DICTATES THE NUMBER OF VISITS PURCHASED.
	-8		SYSTEM OPTIMIZATION (LSC-SYSOPT-SP)	AN ONSITE CONSULTATIVE VISIT TO IDENTIFY AND IMPLEMENT LIGHTING CONTROL ADJUSTMENTS TO SAVE . ENVIRONMENT.
A QSM	PDUS WHEN		PREVENTATIVE MAINTENANCE VISIT (LSC-SCHD-MAINT)	VISIT TO PERFORM PREVENTATIVE MAINTENANCE, MINOR REPROGRAMMING, AND CONDUCT SYSTEM TRAIN OPTIONS WITH THE END-USER PRIOR TO BEGINNING ANY WORK. THE END-USER WILL RECEIVE DOCUMENTA RECOMMENDATIONS FOR FUTURE SERVICE. QUANTITY DICTATES THE NUMBER OF DAYS PURCHASED.
ON INFRARED	-0.5		ADDITIONAL DAY OF SERVICE (LSC-DAY-ADDL-CS)	ONSITE DAY OF SERVICE BY A LUTRON SERVICE REPRESENTATIVE.
R, HIGH BAY	-1		REMOTE SUPPLEMENTAL TRAINING	A SUPPLEMENTAL REMOTE TRAINING FOR SITE PERSONNEL. THIS SERVICE IS AVAILABLE FOR LUTRON QUAI HOURS. REMOTE NETWORK ACCESS IS REQUIRED FOR THIS VISIT AND THE SYSTEM MUST BE ABLE TO CON
			(LSC-TRAIN-RMTE) REMOTE PROGRAMMING ASSISTANCE (LSC-PRG-AST-RMTE)	ONE 4-HOUR REMOTE PROGRAMMING ASSISTANCE SESSION TO MAKE PROGRAMMING ADJUSTMENTS PER IS AVAILABLE FOR LUTRON QUANTUM AND ATHENA SYSTEMS. REMOTE NETWORK ACCESS IS REQUIRED FOR INTERNET.
				MAINTENANCE & SUPPORT SERVICES
			SOFTWARE MAINTENANCE AGREEMENT	PROVIDES COMPATIBILITY TESTING RESULTS OF QUANTUM WITH OPERATING SYSTEM PATCHES AND WEB B UPGRADE LICENSE.
		1	(LSC-SMA-SP) COMMERCIAL SYSTEMS 2-YEAR LIMITED WARRANTY	A 2-YEAR SYSTEM WARRANTY PROVIDING 100% REPLACEMENT PARTS AND 100% LUTRON DIAGNOSTIC LAB
		-	(LSC-B2) ENHANCED SILVER (LSC-E8S)	YEARS 1-2 - 100% REPLACEMENT PARTS AND 100% LUTRON DIAGNOSTIC LABOR COVERAGE WITH A FIRST-A YEARS 6-8 - 25% PARTS ONLY COVERAGE.
			ENHANCED GOLD (LSC-E8G) ENHANCED PLATINUM (LSC-E8P) SILVER TECHNOLOGY	YEARS 1-2 - 100% REPLACEMENT PARTS AND 100% LUTRON DIAGNOSTIC LABOR COVERAGE WITH A 72-HOU MAINTENANCE VISIT; YEARS 3-5 - 50% PARTS ONLY COVERAGE; YEARS 6-8 - 25% PARTS ONLY COVERAGE. YEARS 1-2 - 100% REPLACEMENT PARTS AND 100% LUTRON DIAGNOSTIC LABOR COVERAGE WITH A 24-HOU MAINTENANCE VISIT; YEARS 3-5 - 50% PARTS ONLY COVERAGE; YEARS 6-8 - 25% PARTS ONLY COVERAGE. AN ANNUAL SERVICE PLAN THAT COVERS 100% REPLACEMENT PARTS AND 100% LUTRON DIAGNOSTIC LABO
			SUPPORT PLAN (LSC-SILV-IW) GOLD TECHNOLOGY	AN ANNUAL SERVICE PLAN THAT COVERS 100% REPLACEMENT PARTS AND 100% LUTRON LABOR WITH A 72-
			SUPPORT PLAN (LSC-GOLD-IW) PLATINUM TECHNOLOGY	ANNUAL (1-DAY) SCHEDULED PREVENTIVE MAINTENANCE VISIT EACH YEAR. AN ANNUAL SERVICE PLAN THAT COVERS 100% REPLACEMENT PARTS AND 100% LUTRON DIAGNOSTIC LABO
			SUPPORT PLAN (LSC-PLAT-IW) PREVENTIVE MAINTENANCE	INCLUDES AN ANNUAL (1-DAY) SCHEDULED PREVENTIVE MAINTENANCE VISIT EACH YEAR. SCHEDULED MAINTENANCE VISIT TO PERFORM PREVENTIVE MAINTENANCE, MINOR PROGRAMMING, AND CO
			VISIT(S) (LSC-SCH-MAINT) ATHENA DASHBOARD	VISITS SPECIFIED WITH AN ENHANCED WARRANTY OR TECHNOLOGY SUPPORT PLAN.
			SERVICE (LSC-ADB-1Y-R)	SUBSCRIPTION OF THE ATHENA DASHBOARD. REQUIRES AN OUTBOUND INTERNET CONNECTION.
				PLEASE GO TO WWW.LUTRON.COM/SERVICES FOR FURTHER INFORMA
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ITTEN SPEC DOCUMENTS

PACKAGE (PARTICULARLY THE ONE LINE AND DEVICE SPECIFICATIONS) NE ALONG WITH BEST PRACTICES FOR INSTALLATION. THIS SESSION IS

KAGE (PARTICULARLY THE ONE LINE AND DEVICE SPECIFICATIONS) WITH ONG WITH BEST PRACTICES FOR INSTALLATION.

DR TO CONFIRM THE PROCESSORS ARE ONLINE, THE DEVICES ARE I RETURNING TO SITE FOR THE PHYSICAL STARTUP OF THE SYSTEM. THIS ED AND POWERED; IT DOES NOT INCLUDE WIRING TROUBLESHOOTING. L WORK TO CONFIRM OVERALL WIRING READINESS AND BASIC SYSTEM TOR. THE LUTRON SYSTEM MUST BE WIRED AND POWERED PRIOR TO

BY CREATING SENSOR LAYOUTS AND COORDINATING SENSOR N UP TO TWO TIMES TO PERFORM SENSOR FINE-TUNING. ERATION AND DISCUSS INTEGRATION PROCEDURES NEEDED IN ORDER SYSTEMS: BMS, BAS, IT, NON-LUTRON SHADES, BACNET, AV, OR ENERGY

FINE-TUNE THE SCENE LEVEL PROGRAMMING, AND MAKE ADJUSTMENTS

FICATION), TWO (2) VISITS TO PERFORM FINE TUNING OF FIXTURES AND D SEQUENCE OF OPERATIONS PROVIDED BY THE SPECIFIER. THE FIRST VISIT. ALSO INCLUDED IN THIS PACKAGE IS A TWO-HOUR REMOTE OUR SESSION AND THE SYSTEM MUST BE ABLE TO CONNECT TO THE

DEMONSTRATE THAT THE SYSTEM FUNCTIONALITY MEETS THE DESIGN OS. FUNCTIONAL TESTING ASSISTANCE. OR INVENTORY OF LUTRON

RON EQUIPMENT HAS BEEN THOROUGHLY TESTED. IT SUPPORTS THE

E TEST'S RESULTS. DOCUMENTATION IS TO BE FILLED OUT AS A N COMPLETION, A LUTRON SERVICES REPRESENTATIVE WILL SUPPLY THE 1 TESTING.

COOES NOT INCLUDE HOLIDAY OR WEEKEND WORK. ADDITIONAL FEES

NCY TO GO OVER THE LUTRON SYSTEM COMPONENTS WITH THE SYSTEM I USER KNOWS HOW TO NAVIGATE WITHIN THEIR SYSTEM AND MAKE MENDATION REPORT.

ESENTATIVE TO TEACH SYSTEM USERS HOW TO OPERATE AND MAINTAIN

E ADDITIONAL ENERGY AND CREATE A MORE PRODUCTIVE WORK

AINING. THE LUTRON SERVICE REPRESENTATIVE WILL REVIEW SERVICE NTATION THAT DESCRIBES THE WORK PERFORMED AND ANY

JANTUM AND ATHENA SYSTEMS. THIS TRAINING IS NOT TO EXCEED 4 ONNECT TO THE INTERNET.

R THE DIRECTION OF A FACILITY MANAGER OR SPECIFIER. THIS SERVICE OR THIS VISIT AND THE SYSTEM MUST BE ABLE TO CONNECT TO THE

BROWSER UPDATES. INCLUDES AN ELECTIVE FREE SOFTWARE

ABOR COVERAGE WITH A FIRST-AVAILABLE RESPONSE TIME.

-AVAILABLE RESPONSE TIME; YEARS 3-5 - 50% PARTS ONLY COVERAGE;

OUR RESPONSE TIME AND AN ANNUAL (1-DAY) SCHEDULED PREVENTIVE

OUR RESPONSE TIME AND AN ANNUAL (1-DAY) SCHEDULED PREVENTIVE

ABOR WITH A FIRST-AVAILABLE ONSITE OR REMOTE RESPONSE TIME.

2-HOUR ONSITE OR REMOTE RESPONSE TIME. ALSO INCLUDES AN

ABOR WITH A 24-HOUR ONSITE OR REMOTE RESPONSE TIME. ALSO

CONDUCT SYSTEM TRAININGS. QUANTITY IS IN ADDITION TO ANY YEARLY

EW USER TRAINING, AND SYSTEM OPTIMIZATION. REQUIRED WITH THE

ATION.

ONE-LINE

WIRE LEGEND

- △ QS CONTROL LINK (CONNECT WIRES 1, 2, 3 AND 4)*
- ▲ QS CONTROL LINK (CONNECT WIRES 1, 3 AND 4. DO NOT CONNECT WIRE 2)*
- ▽P PANEL CONTROL LINK (CONNECT WIRES 1, 2, 3, 4 AND 5)*
- ▼P PANEL CONTROL LINK (CONNECT WIRES 1, 2, 3 AND 4. DO NOT CONNECT WIRE #5)*
- >P PANEL CONTROL LINK (CONNECT WIRES 1, 3, 4 AND 5. DO NOT CONNECT WIRE #2)*
- ⊲s QS SIVOIA SHADE CONTROL LINK*
- ▲T BELDEN CABLE 1387LA(OR EQUIVALENT)
- NORMAL INPUT POWER 2 #12 AWG (4 SQ MM) + GROUND
- NORMAL-EMERGENCY INPUT POWER 2 #12 AWG (4 SQ MM) + GROUND
- 3 PHASE 4 WIRE INPUT POWER, 4 #12 AWG (4 SQ MM) + GROUND
- 2 #12 AWG (4 SQ MM) + GROUND
- 3 #12 AWG (4 SQ MM) + GROUND
- ◆ 0-10 V SIGNAL: 2#18AWG (1.0 SQ MM)
- •• 2#18 AWG (1.0 SQ MM)
- ∞ 3#18 AWG (1.0 SQ MM)
- ECOSYSTEM BUS/LOOP*
- > DALI LOOP
- T-SERIES TUNABLE-WHITE LOOP
- LUTRON SENSOR CABLE C-CBL-522S OR ▲ USE 4#22 AWG (1.0 SQ MM)
- LUTRON SENSOR CABLE C-CBL-522S OR USE 3#22 AWG (1.0 SQ MM)
- DMX CABLE. USE LUTRON GRX-CBL-DMX-250/GRX-CBL-DMX-500 OR BELDEN #9729 (NON-PLENUM) OR BELDEN #89729 (PLENUM) OR DURA FLEX 22/4 WA CABLE.
- E ETHERNET CABLE. CAT5E OR BETTER CABLE FOR LUTRON NETWORK TERMINATED WITH RJ45 CONNECTORS (NOT PROVIDED BY LUTRON). 328 FT (100 M) MAXIMUM RUN.
- FIBER OPTIC CABLE FOR LUTRON NETWORK TERMINATED WITH APPROPRIATE FIBER OPTIC CONNECTORS (NOT PROVIDED BY LUTRON). REQUIRES DEDICATED FIBER OPTIC LINK (SINGLE-MODE OR MULTI-MODE)
- ---- RF CONNECTION ------ WIRED CONNECTION

*PLEASE REFER TO NOTES ON WIRING FOR MORE WIRING GUIDELINES. **REFER TO LOAD SCHEDULE FOR FEED AND LOAD INFORMATION

PROJECT NAME: SVSU PROJECT

LOCATION: SAGINAW, MICHIGAN

PROJECT NUMBER:

CREATED BY: GARY WRIGHT

FILE NAME: SVSU PROJECT-V22.4.0.7531.LUTD

DOCUMENT REVISION:

SEPTEMBER 22, 2022 | Sheet 11

FOR DETAILED DEFINITION OF PRODUCT CAPABILITIES REFER TO PRODUCT SPECIFICATION SUBMITTAL SHEETS.

△ NOT FOR CONSTRUCTION

②LUTRON。

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