				EDULE	-					
								CONTROL D	EVICE	
MARK	DESCRIPTION	WATTAGE	VOLTAGE	PHASE	LENGTH	MANUFACTURER	MODEL SERIES	COMPONENT	furn. Inst.	NOTES
FA8.08A	ARCHITECTURAL FORCED-AIR WALL HEATER	8,000 W	208 V	1		OUELLET	OAWH	IT		
FF8.04A	STANDARD FAN-FORCE COMMERCIAL WALL HEATER	4,000 W	208 V	1		OUELLET OAC		IT		
UA8.07	ELECTRIC UNIT HEATER COMPLETE WITH 24V REMOTE THERMOSTAT	7,500 W	208 V	1		OUELLET	OAS	LW-ID		SUSPENDE FROM STRUCTUR

## GENERAL NOTES:

	LIGHTING	CONTROL	S SEQUENC	CE OF OPER	RATIONS SCHED	ULE		
ROOM	MANUAL ON	MANUAL OFF	DIMMING SWITCH	OVERRIDE SWITCH	OCCUPANCY SENSOR ON	OCCUPANCY SENSOR OFF	OCCUPANCY SENSOR DIMMING	PHOTOCONTROL DIMMING
Classroom/Lecture/Training	No	No	Yes	Yes	Yes	Yes	No	No
Corridor/Transition	No	No	No	No	Yes	Yes	No	No
Dressing/Locker/Fitting Room - Exercise Center	No	No	No	No	Yes	Yes	No	No
Electrical/Mechanical	Yes	Yes	No	No	No	No	No	No
Exercise Area - Gymnasium	Yes	Yes	No	No	No	No	Yes	No
_obby	No	No	No	No	Yes	Yes	No	Yes
Office - Enclosed	No	No	Yes	Yes	Yes	Yes	No	No
Restrooms	No	No	No	No	Yes	Yes	No	No

				EMER	GENCY	BAT	ΓERY	' BA	NK SC	HEDU	LE				
		BATTERY		NUMBER	WATTS		AC	DC	SUPPLIED	TOTAL	TOTAL DC LOAD WITH	MAX WATT			
ID	DESCRIPTION	SIZE	HEADS	OF HEADS	PER HEAD	VSR	VOLT	VOLT	FROM	DC LOAD	SAFETY FACTOR	30 MIN	MFR	MODEL	NOTES
BU1	BATTERY BANK, STEEL CABINET COMPLETE WITH AC/DC TERMINAL BLOCKS.	200 W	YES	2	6	YES	120 V	12 V	J	97 W	121 W	200 W	LUMACELL	RG12S200	
BU2	BATTERY BANK, STEEL CABINET COMPLETE WITH AC/DC TERMINAL BLOCKS.	200 W	YES	2	6	YES	120 V	12 V	EA	85 W	106 W	200 W	LUMACELL	RG12S200	
BU3	BATTERY BANK, STEEL CABINET COMPLETE WITH AC/DC TERMINAL BLOCKS.	200 W	YES	2	6	YES	120 V	12 V	G	97 W	121 W	200 W	LUMACELL	RG12S200	
BU4	BATTERY BANK, STEEL CABINET COMPLETE WITH AC/DC TERMINAL BLOCKS.	200 W	YES	2	6	YES	120 V	12 V	EB	121 W	151 W	200 W	LUMACELL	RG12S200	
BU5	BATTERY BANK, STEEL CABINET COMPLETE WITH AC/DC TERMINAL BLOCKS.	100 W	YES	2	6	YES	120 V	12 V	Р	66 W	83 W	100 W	LUMACELL	RG12S100	
BU6	BATTERY BANK, STEEL CABINET COMPLETE WITH AC/DC TERMINAL BLOCKS.	200 W		0	0	YES	120 V	12 V	EA	73 W	91 W	200 W	LUMACELL	RG12S200	
BU7	BATTERY BANK, STEEL CABINET COMPLETE WITH AC/DC TERMINAL BLOCKS.	200 W		0	0	YES	120 V	12 V	D	109 W	136 W	200 W	LUMACELL	RG12S200	
BU8	BATTERY BANK, STEEL CABINET COMPLETE WITH AC/DC TERMINAL BLOCKS.	200 W		0	0	YES	120 V	12 V	AW	97 W	121 W	200 W	LUMACELL	RG12S200	
				•	•			•			•	•		•	

## GENERAL NOTES:

A. EMERGENCY LIGHTING MODEL NUMBERS ARE BASED ON LUMACELL PRODUCT LINE. EMERGILITE, BEGHELLIE, AND AIMLITE MEETING PERFORMANCE SPECIFICATIONS ARE APPROVED EQUAL. B. WHERE "APPROVED EQUAL" IS LISTED IN THE MANUFACTURER COLUMN, FIXTURES MUST BE SUBMITTED AS A SUBSTITUTION FOR APPROVAL PRIOR TO BID SUBMISSION. SCHEDULE NOTES:

1. N/A

		LIGHTING CON
TYP	E	DESCRIPTION
OS	5	COMBINATION ULTRASONIC OCCUPAN SENSOR/SWITCH, WALL MOUNTED, LIN VOLTAGE, WITH ON-OFF PUSHBUTTON
OS3 TYF		ULTRASONIC OCCUPANCY SENSOR, C MOUNTED 360° COVERAGE, MINIMUM SQUARE FEET.
<u>SCH</u>	EDI	JLE NOTES:
2.	PRC	OVIDE DEVICE TO MATCH OPERATING VOLTAGE OF OVIDE 24 VDC POWER PACK WITH INPUT TO MATCH ED FOR 20A DRIVER

LIGHTING CONTROL	DEVICE SCH	IEDULE	
DESCRIPTION	MANUFACTURER	CATALOG No.	NOTES
COMBINATION ULTRASONIC OCCUPANCY SENSOR/SWITCH, WALL MOUNTED, LINE VOLTAGE, WITH ON-OFF PUSHBUTTON.	WATTSTOPPER	UW-100	1
ULTRASONIC OCCUPANCY SENSOR, CEILING MOUNTED 360° COVERAGE, MINIMUM 1100 SQUARE FEET.	SENSORSWITCH	CM 10 WR-INFRAR ED	1, 2
JLE NOTES:			
IVIDE DEVICE TO MATCH OPERATING VOLTAGE OF LOADS CO IVIDE 24 VDC POWER PACK WITH INPUT TO MATCH LIGHTING ED FOR 20A DRIVER		ITCHING CONTAC	T
		$\overline{\}$	

									LIC	<b>SHTING F</b>	IXTURE S	CHEDUL	Ξ			
							тург	Description				BALLAST /		MFR		
	ELECTRICA	L HEATER SCH	EDULE				TYPE ELA26	Description DOUBLE HEAD EMERGENCY LIGHTING	LENS-LOUVER	MOUNTING WALL	LAMP 2 x 6W LED	DRIVER	VOLT WATT 12 V 12 W	LUMACELL	CATALOG SERIES DR	-
					CONTROL DEVICE			DECORATIVE REMOTE. DIE CAST ALUMINUM CONSTRUCTION. WHITE			50000HR 540 LUMENS					
	DESCRIPTION	WATTAGE VOLTAGE	PHASE LENGTH MANUFACTURER	MODEL SERIES	COMPONENT IN			DOUBLE HEAD EMERGENCY LIGHTING		WALL	2 x 6W LED		12 V 12 W	LUMACELL	MQMP-NX	
	ARCHITECTURAL FORCED-AIR WALL HEATER	8,000 W 208 V	1 OUELLET	OAWH				NEMA4X REMOTE FOR SWIMMING POOL. POLYCARBONATE CONSTRUCTION. WHITE			50000HR 540 LUMENS					
	STANDARD FAN-FORCE COMMERCIAL WALL HEATER ELECTRIC UNIT HEATER COMPLETE WITH 24V REMOTE THERMOSTAT	4,000 W 208 V 7,500 W 208 V	1         OUELLET           1         OUELLET	OAC OAS		SUSPENDED	EX1	LED UNIVERSAL MOUNT, UNIVERSAL		UNIVERSAL	< 3W LED		120 V 3 W	LUMACELL	LA-3-W-U	
	ELECTRIC UNIT HEATER COMPLETE WITH 24V REMOTE THERMOSTAT	7,500 W 206 V	I OUELLE I	UAS	LVV-ID -	FROM		VOLTAGE, UNIVERSAL SINGLE/DOUBLE FACE			MIN 50000 HR					1
						STRUCTURE		ALUMINUM HOUSING AND CHEVRON ARROWS AS SHOWN ON PLANS.								
	EVICES: VOLTAGE INTERNAL TAMPERPROOF BI-METAL THERMOSTAT T-STAT LW-IT LOW VOLTAGE	E INTERNAL TAMPERPROOF BI	I-METAL THERMOSTAT IT INTER	NAL TAMPERPROOF THER	RMOSTAT			LED WALL MOUNT, UNIVERSAL VOLTAGE,		UNIVERSAL	< 3W LED		120 V 3 W	LUMACELL	NEMA-4X-LN	
		E INTERNAL DIAL THERMOSTA E REMOTE BI-METAL THERMOS		NAL DIAL THERMOSTAT				UNIVERSAL SINGLE/DOUBLE FACE PICTOGRAM STYLE EXIT SIGN SUITABLE FOR			MIN 50000 HR					
								SWIMMING POOL APPLICATION WITH								
RAL	NOTES:							CHEVRON ARROWS AS SHOWN ON PLANS. 610mm x 610mm (2 Foot X 2 Foot) LED	CURVED RIBBED	RECESSED	LED	(1) LED	120 V 20 W	LITHONIA	BLT	
	IPUT SHALL BE AS INDICATED AT SPECIFIED VOLTAGE.							VOLUMETRIC SPECIFICATION GRADE.	VOLUMETRIC	IN T-BAR	2000lm	DŔIVER	120 0 20 00	LITIONIA	BL1	
	) HEATERS AND FORCE FLOW HEATERS SHALL BE WHITE IN COLOUR. CONFIRM FINISH WITH ARCH HROMALOX, STELPRO, AND Q-MARK MEETING ABOVE SPECIFICATIONS ARE APPROVED EQUAL MA								ACRYLIC DIFFUSOR		80+CRI 4000K	0-10V DIMMING				
BAS	EBOARD HEATERS ARE SPECIFIED, LINEAR CONVECTORS ARE NOT APPROVED EQUAL.										60000HR					
	ARRIER HEATERS SHALL BE COMPLETE WITH FINISHED BACK AND PEDESTAL MOUNTS. LTAGE CONTROLLED HEATERS SHALL BE COMPLETE WITH LOW VOLTAGE RELAY AND TRANSFOR	MER KIT FOR LOW VOLTAGE	THERMOSTAT CONNECTION.					SURFACE TRACK		SURFACE CEILING	N/A	N/A	120 V 0 W	JUNO	T 6FT BL	
							RT-2	SURFACE TRACK		SURFACE CEILING	N/A	N/A	120 V 0 W	JUNO	T 8FT BL	
							RT-3	SURFACE TRACK		SURFACE	N/A	N/A	120 V 0 W	JUNO	T 12FT BL	
								6" DIAMETER LED DOWNLIGHT WITH		CEILING		0-10V	120 V 31 W	LITHONIA	LDN6 40/30 L06 LSS MVOLT EZ10	
								DIE-CAST SOCKET HOUSING, LOW		SURFACE	3000lm	DIMMING	120 V 31 VV	LITHONIA		
								IRIDESCENT SPECULAR CLEAR ALZAK REFLECTOR			80+CRI 4000K	LED DRIVER				
											60000HR					
	LIGHTING CONTROLS SEQUENC	E OF OPERATIO	ONS SCHEDULE				SL15K	HIGH BAY LED.	SEMI-DIFFUSE ACRYLIC	CHAIN SUSPENDED	LED 5000lm	0-10V DIMMING	120 V   125 W	LITHONIA	IBL-15L-WD-SD125-LP840	
	· · · · · · · · · · · · · · · · · · ·		- —	000154101							81+CRI 3500K	LED DRIVER				
	ROOM MANUAL ON MANUAL OFF DIMMING SWITCH	OVERRIDE SWITCH OCCUI	PANCY SENSOR ON OCCUPANCY SENSO		G PHOTOCOI						L90@					
	Dom/Lecture/TrainingNoNoYesDor/TransitionNoNoNo	Yes Yes No Yes	Yes Yes	No	No No		SI 23A	1' X 4' VOLUMETRIC SPECIFICATION GRADE.	CURVED SMOOTH	STEM	100000HR LED	0-10V	120 V 20 W	PACO	PUTX-L-14-LED-30-40-MVOLT-DIM	
essi nte	ng/Locker/Fitting Room - Exercise No No No	No Yes	Yes	No	No				VOLUMETRIC	MOUNTED	2200lm	DIMMING		.,		
	cal/Mechanical Yes Yes No se Area - Gymnasium Yes Yes No	No No	No	No	No				ACRYLIC DIFFUSOR		80+CRI 4000K	LED DRIVER				
bby	No No No	No Yes	Yes	No	Yes			1' X 4' VOLUMETRIC SPECIFICATION GRADE.	CURVED RIBBED	SURFACE	60000HR	0-10V	120 V 20 W	LITHONIA	BLTX4-20L-ADP-LP840	
	Enclosed No No Yes	Yes Yes No Yes	Yes Yes	No No	No No		SL23B	T X 4 VOLUMETRIC SPECIFICATION GRADE.	VOLUMETRIC	MOUNTED		DIMMING	120 V 20 VV	LITHONIA	BLIX4-20L-ADP-LP840	
(	DPERATION TYPES:								ACRYLIC DIFFUSOR		80+CRI 4000K	LED DRIVER				
	. CIRCUIT(S) TURNED ON BY PHOTOCELL IN SERIES WITH TIME CONTROL SWITCH. FIXTURES CO	NTROLLED BY INTEGRAL									60000HR	0.4017	400.1/			
,	MOTION SENSOR.						SL23C	1' X 4' VOLUMETRIC SPECIFICATION GRADE.	VOLUMETRIC	RECESSED IN T-BAR	LED 2200lm	DIMMING	120 V 20 W	LITHONIA	BLT4-20L-ADP-LP840	
									ACRYLIC DIFFUSOR		80+CRI 4000K	LED DRIVER				
											60000HR					
							SL32	4' LED STRIP LIGHT.	FROSTED DIFFUSER	SURFACE MOUNTED	LED 3200lm	LED DRIVER	120 V 25 W	LITHONIA	ZL1N-L48-3000LM-FST-120-40K-80CF	RI
											80+CRI 4000K					
											L70@					
	EMERGENCY	<b>BATTERY BAN</b>	K SCHEDULE				SI 3211	4' LED STRIP LIGHT COMPLETE WITH	FROSTED	CHAIN	60000HR LED		120 V 25 W	LITHONIA	ZL1N-L48-3000LM-FST-120-40K-80CR	RI-
	BATTERY     NUMBER     WATTS       DESCRIPTION     SIZE     HEADS     OF HEADS		UPPLIED TOTAL TOTAL DC LOAD WITH FROM DC LOAD SAFETY FACTOR	MAX WATT 30 MIN MFR	MODEL NOT	FS		WIREGUARD.		SUSPENDED					WGZ48	
	RY BANK, STEEL CABINET COMPLETE 200 W YES 2 6	YSK         YOLT         YOLT           YES         120 V         12 V	J         97 W         121 W	200 W LUMACEL							4000K					
	C/DC TERMINAL BLOCKS.  RY BANK, STEEL CABINET COMPLETE 200 W YES 2 6	YES 120 V 12 V	EA 85 W 106 W	200 W LUMACEL	L RG125200	_					L70@ 60000HR					
ł	C/DC TERMINAL BLOCKS.								ETCHED WHITE	TRACK	LED		120 V 52 W	JUNO	T267L G2 35K 90CRI	
	RY BANK, STEEL CABINET COMPLETE 200 W YES 2 6 C/DC TERMINAL BLOCKS.	YES 120 V 12 V	G 97 W 121 W	200 W LUMACEL	_L  RG12S200			GLASS LENS	GLASS		600 LUMENS 85+CRI				PDIM SP BL	
Έ	RY BANK, STEEL CABINET COMPLETE 200 W YES 2 6	YES 120 V 12 V	EB 121 W 151 W	200 W LUMACEL	_L RG12S200					0/10=1.5=	50,000 HRS					
	C/DC TERMINAL BLOCKS.  RY BANK, STEEL CABINET COMPLETE 100 W YES 2 6	YES 120 V 12 V	P 66 W 83 W	100 W LUMACEL	L RG12S100		W1	2' WALL MOUNTED LED VALENCE FIXTURE.	PRISMATIC ACRYLIC FLUSH	SURFACE WALL	LED 700lm	DIMMING	120 V 12 W	FINELITE	HP-2 WM D-2-S-840-F-120V-MB-FE-S	ЪС
	C/DC TERMINAL BLOCKS.								DIFFUSER		80+CRI 4000K	LED DRIVER				
	RY BANK, STEEL CABINET COMPLETE 200 W 0 0 C/DC TERMINAL BLOCKS.	YES 120 V 12 V	EA 73 W 91 W	200 W LUMACEL	_L  RG12S200						60000HR					
TE						— <b>I</b>	W2	4 ' WALL MOUNTED LED VALENCE FIXTURE	PRISMATIC	SURFACE	LED	0-10V	120 V 56 W	FINELITE	HP-2 WM D-4-S-840-F-120V-MB-FE-S	C
TE 1 /	RY BANK, STEEL CABINET COMPLETE 200 W 0 0	YES 120 V 12 V	D 109 W 136 W	200 W LUMACEL	_L  RG12S200											-
		YES         120 V         12 V           YES         120 V         12 V		200 W LUMACEL					ACRYLIC FLUSH DIFFUSER	WALL	1400lm 80+CRI 4000K	DIMMING LED DRIVER				·

A. EMERGENCY LIGHTING MODEL NUMBERS ARE BASED ON LUMACELL PRODUCT LINE. EMERGILITE, BEGHELLI, AND AIMLITE MEETING PERFORMANCE SPECIFICATIONS ARE APPROVED SUBSTITUTIONS. B. WHERE "APPROVED EQUAL" IS LISTED IN THE MANUFACTURER COLUMN, FIXTURES MUST BE SUBMITTED AS A SUBSTITUTION FOR APPROVAL PRIOR TO BID SUBMISSION.

(1)

SCHEDULE NOTES:

1. ADJUST OPTICS FOR WIDE DISTRIBUTION.



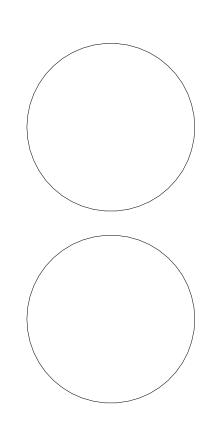
## Rev. No. Date **Revision Notes**

- 0 19-11-06 Issued for Construction
- 1 19-12-09 Issued with ADD1ME



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Project

ST. JAMES CIVIC CENTRE

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