



**APEGM**  
Certificate of Authorization  
HDK Consulting Incorporated  
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**DO NOT SCALE DRAWINGS**

Revision/	Description/Description	Date/Date
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0	50% CD SUBMISSION	15/08/14

**CANADA SCHOOL OF PUBLIC SERVICE (CSPS)**  
Winnipeg  
MANITOBA

Project title/Titre du projet  
**STANLEY KNOWLES BUILDING  
2ND FLOOR - 391 YORK AVENUE  
WINNIPEG, MANITOBA**

**CSPS WINNIPEG FIT-UP**

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PUBLIC WORKS AND GOVERNMENT SERVICES CANADA

Drawing title/Titre du dessin

**LIGHTING CONTROL SCHEDULE**

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ROOM CONTROLLER NUMBER	ROOM NAME & NUMBER	LUMINAIRE		OCCUPANCY SENSOR CEILING		LOCAL WALL CONTROL				PHOTOCELL	0-10V DIMMING	RELAY NUMBER	CCT NUMBER	ZONE OPERATION	EMERGENCY	
		TYPE	QTY.	PIR	DUAL TECH	ON/OFF	OS	DIM	SCENE CONTROLLER							
RC-1	OFFICE 112	A2	2			X	X					1	L2-17	(1)		
	QUIET ROOM 113	A1	1			X	X					2	L2-17	(1)		
RC-2	WORK STATIONS 111 SHARED EQUIPMENT	A2	5	X						X		1	L2-17	(2)		
		A2	3									2	L2-17	(2)		
		A2	5									3	L2-17	(2)		
		A2	2									4	L2-17	(3)		
	WORK STATIONS 111	A2	2	X						X	X	5 (EM)	E100-3	(2) (4)	X	
		A2	1									6 (EM)	E100-3	(3) (4)	X	
RC-3	KITCHENETTE 108B	L	1	X						X		1	L2-17	(2)		
		L	1									2	L2-17	(2)		
	KITCHENETTE 108B	L	1								X	6	E100-3	(2) (4)	X	
	OPEN AREA 108A	L	3	X									3	L2-17	(3)	
		F	1													
	OPEN AREA 108A	L	2	X								5 (EM)	E100-3	(3) (4)	X	
RC-4	MEETING ROOM 109	H1	6	X						X		1	L2-17	(5)		
		B3	1									2	L2-17	(5)		
	MPR 110	H2	8	X							X	3	L2-17	(5)		
		K	1								X	4	L2-17	(5)		
RC-5	WEBEX 114	A2	2	X							X	1	L2-17	(5)		
	CORRIDOR	H1	6	X							X	2	L2-17	(5)		
		H3	2	X								5 (EM)	E-1003	(3) (4)	X	
RC-6	RECEPTION 101	H3	4	X								1	L2-16	(3)		
		F	1									2	L2-16	(3)		
	CORRIDOR 102	H3	3	X								2	L2-16	(3)		
		F	3													
	CLASSROOM ST. 103	G1	2			X	X					3	L2-16	(1)		
	TELECOM 104	G1	1			X	X					4	L2-16	(1)		
	RECEPTION 101	C	2	X								5 (EM)	E100-3	(3) (4)	X	
	CORRIDOR 102	H3	2	X								6 (EM)	E100-3	(3) (4)	X	
RC-7	CLASSROOM STORAGE 105	G1	2			X	X					1	L2-16	(1)		
	UNDESIGNATED 106	A2	2			X	X			X	X	2	L2-16	(6)		
RC-8	CLASSROOM 107C	A1	3	X						X		1	L2-16	(7)		
		A1	1									2	L2-16	(8)		
		A1	3									3	L2-16	(7)		
		A1	1									4	L2-16	(8)		
		A1	2								X	5 (EM)	E100-3	(8) (4)	X	
		A1	2								X	6 (EM)	E100-3	(8) (4)	X	
RC-9	CLASSROOM 107B	A1	3	X						X		1	L2-16	(8)		
		A1	1									2	L2-16	(8)		
		A1	3									3	L2-16	(8)		
		A1	1									4	L2-16	(8)		
		A1	2								X	5 (EM)	E100-3	(8) (4)	X	
		A1	2								X	6 (EM)	E100-3	(8) (4)	X	
RC-10	CLASSROOM 107A	A1	3	X						X		1	L2-16	(8)		
		A1	1									2	L2-16	(8)		
		A1	3									3	L2-16	(8)		
		A1	1									4	L2-16	(8)		
		A1	2								X	5 (EM)	E100-3	(8) (4)	X	
		A1	2								X	6 (EM)	E100-3	(8) (4)	X	

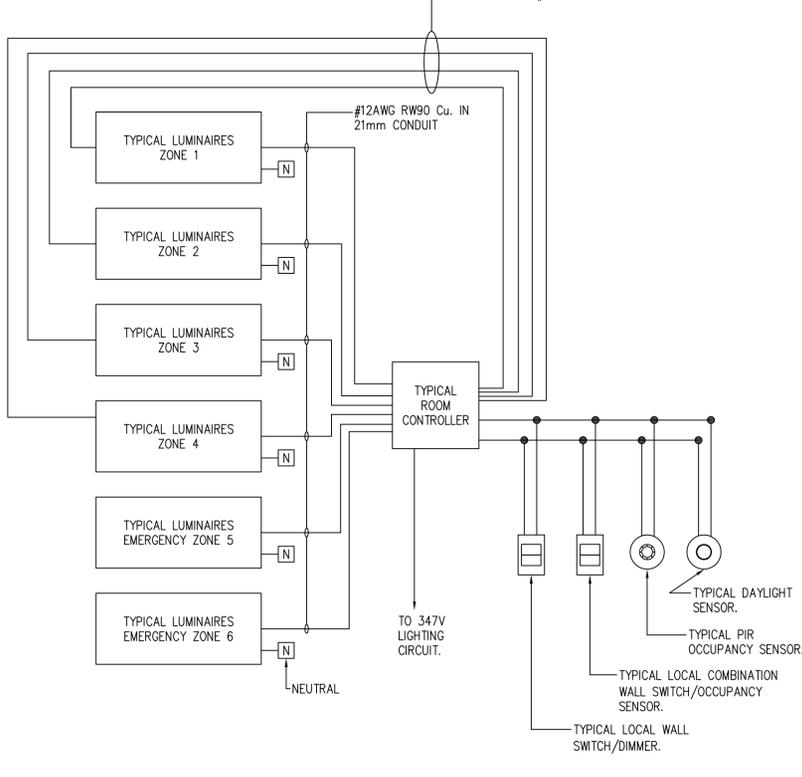
**ZONE OPERATION:**

- MANUAL ON/AUTO OFF CONTROL WITH 15 MINUTE TIME OUT VIA LOCAL WALL BOX COMBINATION OCCUPANCY SENSOR, MANUAL SWITCH CONTROL.
- AUTO ON/AUTO OFF CONTROL WITH 15 MINUTE TIME VIA CEILING MOUNTED OCCUPANCY SENSOR C/W ROW DIMMING VIA PHOTOCELL.
- AUTO ON/AUTO OFF CONTROL WITH 15 MINUTE TIME VIA CEILING MOUNTED OCCUPANCY SENSOR.
- EMERGENCY FULL ON UPON LOSS OF POWER, RELAY TO OVERRIDE PREVIOUS STATE REGARDLESS OF CONTROL.
- MANUAL ON/MANUAL OFF DIMMING VIA LOCAL COMBINATION WALL SWITCH DIMMER. VACANCY SENSING VIA CEILING MOUNT OCCUPANCY SENSOR.
- MANUAL ON/AUTO OFF CONTROL WITH 15 MINUTE TIMEOUT VIA LOCAL COMBINATION MANUAL SWITCH/OCCUPANCY SENSOR. DIMMING VIA CEILING MOUNT PHOTOCELL.
- AUTO ON/AUTO OFF/DIMMING VIA LOCAL MULTI-ZONE WALL BOX CONTROLLER. AUTO DIMMING VIA CEILING MOUNT PHOTOCELL.
- AUTO ON/AUTO OFF/DIMMING VIA MULTI ZONE WALL BOX CONTROLLER.

**NOTES:**

1 CONFIRM ALL ZONE OPERATION WITH DEPARTMENTAL REPRESENTATIVE PRIOR TO COMMISSIONING OF SYSTEM.

**LIGHTING CONTROL SCHEMATIC DIAGRAM**



**NOTE:**

LIGHTING CONTROL DIAGRAM IS FOR GRAPHICAL REPRESENTATION ONLY. PROVIDE ALL DEVICES, WIRING AND CONNECTIONS REQUIRED FOR A COMPLETE AND FUNCTIONAL LIGHTING CONTROL SYSTEM. COORDINATE ALL WORK WITH LIGHTING CONTROL SYSTEM SUPPLIER. CONFIRM ALL QUANTITIES, LENGTHS, ETC. ON LIGHTING PLANS AND ON SITE.

**SYSTEM DESCRIPTION**

- ELECTRICAL CONTRACTOR TO SUPPLY, INSTALL, WIRE AND CONNECT STANDALONE ROOM CONTROLLER TYPE LIGHTING CONTROL SYSTEMS. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. COORDINATE ENTIRE INSTALLATION WITH ALL OTHER TRADES.
- SYSTEM TO CONSISTS OF MULTIPLE LOCALIZED ROOM CONTROLLER C/W INTEGRAL RELAYS AND DIMMING CHANNELS.

**PARTS DESCRIPTIONS**

**ROOM CONTROLLER:** LOCALIZED LIGHTING CONTROL UNIT C/W FOUR (4) LIGHTING RELAYS AND FOUR (4) 0-10V DIMMING CHANNELS. EXPANSION PACK TO BE AVAILABLE FOR TWO (2) ADDITIONAL 'EMERGENCY' RELAYS CAPABLE OF SWITCHING EMERGENCY LIGHTING.

**ON/OFF SWITCHES:** THE ON/OFF SWITCHES COME IN 1 TO 8 BUTTON MODULES AND BE C/W LED INDICATORS TO SHOW STATUS OF THE CONTROLLED ZONES. SWITCHES TO CONNECT DIRECTLY TO THE 2-CONDUCTOR LOW VOLTAGE NON-POLARIZED BUS.

**DIMMER SWITCHES:** THE DIMMER SWITCHES TO HAVE UP/DOWN BUTTONS TO CONTROL OUTPUTS AND BE C/W LED ALONG EDGE TO INDICATE THE OPERATING LEVEL OF THE CONTROLLED ZONE.

**OCCUPANCY SENSOR:** OCCUPANCY SENSORS TO BE CEILING MOUNTED PASSIVE INFRARED (PIR) TYPE. SENSOR TO CONNECT DIRECTLY TO THE 2-CONDUCTOR LOW VOLTAGE NON-POLARIZED BUS.

**DAYLIGHT SENSOR:** DAYLIGHT SENSOR TO BE CEILING MOUNTED INDOOR TYPE. SENSOR TO CONNECT DIRECTLY TO THE 2-CONDUCTOR LOW VOLTAGE NON-POLARIZED BUS. SENSOR TO BE CAPABLE OF MEASURING LIGHT LEVELS FROM 0 TO 65,000 LUX.

