

LIGHTING FIXTURE SCHEDULE AND SPECIFICATION								
TYPE	DESCRIPTION	ADDITIONAL DESCRIPTION	LAMP TYPE	FIXTURE WATTAGE	COLOUR TEMPERATURE (K)	FINISH	LISTINGS	BALLAST/DRIVER TYPE
L1	16" DIAMETER SUSPENDED DECORATIVE DOME PENDANT	ALL L1A FIXTURES TO BE SUSPENDED 3.2m AFF. ALL L1B FIXTURES TO BE SUSPENDED 3.75m AFF. ALL L1C FIXTURES TO BE SUSPENDED 4.3m AFF. UNLESS OTHERWISE NOTED. 1700 LUMENS, 45° BEAM ANGLE.	PAR38 LED	20	3500	EXTERIOR: BLACK WITH SEMI-GLOSS FINISH. INTERIOR: WHITE		DIMMING, COMPATIBLE WITH THE LIGHTING CONTROL SYSTEM
L2	RECESSED 600 mm x 600 mm DIRECT/INDIRECT TROFFER	SPECIFICATION GRADE, 3000 LUMENS.	LED	28	3500	WHITE		0-10V DIMMING, COMPATIBLE WITH THE LIGHTING CONTROL SYSTEM
L3	1200 mm STRIP FIXTURE	4000 LUMENS, COMPLETE WITH DIFFUSER	LED	32	3500	WHITE		ELECTRONIC
L4	RECESSED 100 mm DIAMETER DOWNLIGHT	SPECIFICATION GRADE, 3000 LUMENS, WET LISTED	LED	21	3500	WHITE	WET LISTED	0-10V DIMMING, COMPATIBLE WITH THE LIGHTING CONTROL SYSTEM
L5	EXTERIOR WALL MOUNTED FIXTURE	SPECIFICATION GRADE, 1100 LUMENS, IP65	LED	14	4000	BLACK	IP65	ELECTRONIC
L6	SUSPENDED DECORATIVE PENDANT	SUSPENDED ABOVE CHECKOUT MILLWORK	LED	20	3500	STANDARD		DIMMING, COMPATIBLE WITH THE LIGHTING CONTROL SYSTEM
L7	UNDERCABINET LIGHTING	INSTALLED IN END-TO-END CONFIGURATION FOR FULL LENGTH INDICATED ON DRAWINGS	LED	23 W/m	3000	WHITE		ELECTRONIC
L8	18.5" DIAMETER EXTERIOR SURFACE MOUNTED DOWNLIGHT ROUND	2435 LUMENS, IP69	LED	84	4000	WHITE	IP69	0-10V DIMMING, COMPATIBLE WITH THE LIGHTING CONTROL SYSTEM
L9	24" DIAMETER SUSPENDED ARCHITECTURAL ROUND BIDIRECTIONAL	2600 LUMENS. ALL L9A FIXTURES TO BE SUSPENDED AT 3.1m AFF. ALL L9B FIXTURES TO BE SUSPENDED AT 2.4m AFF. UNLESS OTHERWISE NOTED	LED	30	3500	WHITE		0-10V DIMMING, COMPATIBLE WITH THE LIGHTING CONTROL SYSTEM
L10	13" INGRADE ASYMMETRICAL FLOODLIGHT	3350 LUMENS, 30x35° BEAM ANGLE, IP68	LED	43	3000	STAINLESS STEEL	IP68	0-10V DIMMING, COMPATIBLE WITH THE LIGHTING CONTROL SYSTEM
L11	7.25" DIAMETER INDOOR/OUTDOOR FLOODLIGHT ROUND	1370 LUMENS, 60° WIDE FLOOD OPTICS, YOLK MOUNTING WITH ADJUSTABLE PIVOTS	LED	28	3500	WHITE		0-10V DIMMING, COMPATIBLE WITH THE LIGHTING CONTROL SYSTEM
L12	24" DIAMETER SURFACE MOUNTED ARCHITECTURAL ROUND DOWNLIGHT	5210 LUMENS	LED	68	3500	BLACK		0-10V DIMMING, COMPATIBLE WITH THE LIGHTING CONTROL SYSTEM
L13	3" DIAMETER RECESSED ROUND DOWNLIGHT	2000 LUMENS, SHALLOW PLENUM HOUSING, WIDE DISTRIBUTION	LED	24	3500	WHITE		0-10V DIMMING, COMPATIBLE WITH THE LIGHTING CONTROL SYSTEM
L14	3" DIAMETER RECESSED ROUND DOWNLIGHT	1000 LUMENS, SHALLOW PLENUM HOUSING, WIDE DISTRIBUTION	LED	11	3500	WHITE		0-10V DIMMING, COMPATIBLE WITH THE LIGHTING CONTROL SYSTEM
L15	3" DIAMETER RECESSED ROUND DOWNLIGHT	3000 LUMENS, SHALLOW PLENUM HOUSING, WIDE DISTRIBUTION	LED	35	3500	WHITE		0-10V DIMMING, COMPATIBLE WITH THE LIGHTING CONTROL SYSTEM
T1	LED TRACK FIXTURE	INSTALLED ON SINGLE-CIRCUIT TRACK	LED	20	3500	BLACK		DIMMING, COMPATIBLE WITH THE LIGHTING CONTROL SYSTEM

NOTES

1 THE PRODUCT SPECIFICATIONS LISTED ABOVE REPRESENT THE BASIC FIXTURE INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPLYING AND INSTALLING ALL NECESSARY SUPPORTS FITTINGS, TRIMS, HOUSINGS, CANOPIES, ETC TO MAKE A COMPLETE LIGHTING ASSEMBLY.

LIGHTING CONTROL SCHEMES														
CONTROL SCHEME	TIME OF DAY CONTROL		MANUAL ON	MANUAL OFF	MANUAL DIMMING RAISE/LOWER	OCCUPANCY ON	OCCUPANCY OFF	OCCUPANCY SENSOR TIMEOUT	DAYLIGHT SENSOR PRESET (LUX)	"ON" PRESET (%)	MANUAL DAYLIGHT SENSOR/PRESET OVERRIDE	ROOM NUMBERS	ROOM DESCRIPTION	SYSTEM DESCRIPTION
	ON TIME	OFF TIME												
CS01	7:00	22:00	NO	NO	NO	YES	YES	10 min	N/A	100	N/A	E120, E100, E104, E106, E107, E111, E121	CORRIDORS, HALLS, PUBLIC WASHROOMS, LOBBY, EXHIBIT HALL	DURING SCHEDULED OCCUPIED HOURS FIXTURES ARE AT 50% WHEN ROOM IS VACANT AND FIXTURES ARE AT 100% WHEN ROOM IS OCCUPIED. DURING NON-SCHEDULED OCCUPIED HOURS FIXTURES ARE AT 0% WHEN ROOM IS VACANT AND FIXTURES ARE AT 100% WHEN ROOM IS OCCUPIED. IF ROOM IS UNOCCUPIED FOR 10 MIN THE ROOM WILL SET TO ITS VACANT STATE. NO DAYLIGHT SENSOR PRESET. NO WALL SWITCH OR DIMMER FOR MANUAL OVERRIDE.
CS02	N/A	N/A	NO	NO	NO	YES	YES	10 min	N/A	100	N/A	E116, E108	STAFF WASHROOM, GIFT SHOP STAFF WASHROOM	DURING OCCUPIED AND UN-OCCUPIED HOURS FIXTURES ARE AT 0% WHEN ROOM IS VACANT AND FIXTURES ARE AT 100% WHEN ROOM IS OCCUPIED. IF ROOM IS UNOCCUPIED FOR 10 MIN THE ROOM WILL SET TO ITS VACANT STATE. NO DAYLIGHT SENSOR PRESET. NO WALL SWITCH OR DIMMER FOR MANUAL OVERRIDE.
CS03	N/A	N/A	YES	YES	NO	NO	NO	N/A	N/A	100	N/A	E101, E102, E119 (COUNTER)	MECH. ROOM, ELEC. ROOM, STAFF KITCHEN COUNTER	FIXTURES ARE MANUALLY TURNED "ON" AND "OFF" WITH LINE VOLTAGE SWITCH.
CS04	N/A	N/A	YES	YES	YES	YES	YES	10 min	N/A	100	N/A	E119	STAFF KITCHEN	DURING OCCUPIED AND UN-OCCUPIED HOURS FIXTURES ARE AT 0% WHEN ROOM IS VACANT AND FIXTURES ARE AT 100% WHEN ROOM IS OCCUPIED. IF ROOM IS UNOCCUPIED FOR 10 MIN THE ROOM WILL SET TO ITS VACANT STATE. NO DAYLIGHT SENSOR PRESET. HAVE A WALL SWITCH INCLUDING DIMMER FOR MANUAL OVERRIDE.
CS05	N/A	N/A	YES	YES	NO	YES	YES	10 min	N/A	100	N/A	E119 (CLOSET)	STAFF KITCHEN CLOSET	DURING OCCUPIED AND UN-OCCUPIED HOURS FIXTURES ARE AT 0% WHEN ROOM IS VACANT AND FIXTURES ARE AT 100% WHEN ROOM IS OCCUPIED. IF ROOM IS UNOCCUPIED FOR 10 MIN THE ROOM WILL SET TO ITS VACANT STATE. NO DAYLIGHT SENSOR PRESET. HAVE A WALL OCCUPANCY SWITCH FOR MANUAL OVERRIDE.
CS06	7:00	22:00	YES	YES	NO	YES	YES	10 min	N/A	100	N/A	E112, E113, E110	TICKETS, SAFE/STORAGE AREA, GIFT SHOP	DURING SCHEDULED OCCUPIED HOURS FIXTURES ARE AT 50% WHEN ROOM IS VACANT AND FIXTURES ARE AT 100% WHEN ROOM IS OCCUPIED. DURING NON-SCHEDULED OCCUPIED HOURS FIXTURES ARE AT 0% WHEN ROOM IS VACANT AND FIXTURES ARE AT 100% WHEN ROOM IS OCCUPIED. IF ROOM IS UNOCCUPIED FOR 10 MIN THE ROOM WILL SET TO ITS VACANT STATE. NO DAYLIGHT SENSOR PRESET. HAVE A WALL SWITCH FOR MANUAL OVERRIDE.
CS07	N/A	N/A	NO	NO	NO	YES	YES	10 min	300 lx	100 (4)	NO	E115, E118, E119	MULTI-PURPOSE ROOM, MEETING ROOM, STAFF KITCHEN	DURING OCCUPIED AND UN-OCCUPIED HOURS FIXTURES ARE AT 300 LUX (DSP) WHEN ROOM IS OCCUPIED AND FIXTURES ARE AT 0% WHEN ROOM IS VACANT. IF ROOM IS UNOCCUPIED FOR 10 MIN THE ROOM WILL SET TO ITS VACANT STATE. DAYLIGHT ZONES TO INITIALLY GO TO 100% OUTPUT, THEN GRADUALLY DIM DOWN TO 300 LUX. HAVE A WALL SWITCH INCLUDING DIMMER FOR MANUAL OVERRIDE.
CS08	7:00	22:00	NO	NO	NO	YES	YES	10 min	300 lx	100 (4)	NO	E111, E121	LOBBY, EXHIBIT HALL	DURING SCHEDULED OCCUPIED HOURS, FIXTURES ARE AT 300 LUX (DSP) WHEN ROOM IS OCCUPIED AND 50% WHEN ROOM IS VACANT. DURING NON-SCHEDULED OCCUPIED HOURS FIXTURES ARE AT 300 LUX (DSP) WHEN ROOM IS OCCUPIED AND 0% WHEN ROOM IS VACANT. IF ROOM IS UNOCCUPIED FOR 10 MIN THE ROOM WILL SET TO ITS VACANT STATE. DAYLIGHT ZONES TO INITIALLY GO TO 100% OUTPUT, THEN GRADUALLY DIM DOWN TO 300 LUX. NO WALL SWITCH OR DIMMER FOR MANUAL OVERRIDE.
CS09	N/A	N/A	YES	YES	NO	YES	YES	10 min	N/A	100	N/A	E105, E109, E103, E117	JANITOR ROOM, GIFT SHOP STORAGE, COMM. ROOM, ADMIN. OFFICE	DURING OCCUPIED AND UN-OCCUPIED HOURS FIXTURES ARE AT 0% WHEN ROOM IS VACANT AND FIXTURES ARE AT 100% WHEN ROOM IS OCCUPIED. IF ROOM IS UNOCCUPIED FOR 10 MIN THE ROOM WILL SET TO ITS VACANT STATE. NO DAYLIGHT SENSOR PRESET. HAVE A WALL SWITCH FOR MANUAL OVERRIDE.
CS10	SUNSET	SUNRISE	NO	NO	NO	NO	NO	N/A	N/A	100	N/A	EXTERIOR	EXTERIOR	FIXTURES ARE AT 0% DURING THE DAY AND FIXTURES ARE AT 100% DURING THE NIGHT. EXTERIOR LIGHTING TO BE CONTROLLED VIA DIGITAL TIME CLOCK BASED ON SUNRISE AND SUNSET TIMES FOR CAVENTISH, PEI. NO DAYLIGHT SENSOR PRESET. NO WALL SWITCH OR DIMMER FOR MANUAL OVERRIDE.
CS11	7:00	22:00	NO	NO	NO	NO	NO	N/A	N/A	N/A	N/A	E121	EXHIBIT HALL (TREE FEATURE)	DURING SCHEDULED OCCUPIED HOURS FIXTURES ARE ON WITH DIMMING LEVEL SET AT THE LIGHTING CONTROL SYSTEM. DURING NON-SCHEDULED OCCUPIED HOURS FIXTURES ARE AT 0%. NO DAYLIGHT SENSOR PRESET. NO WALL SWITCH OR DIMMER FOR MANUAL OVERRIDE.

NOTES:

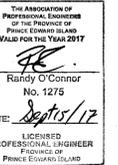
1. WHERE OTHER METHODS OF CONTROL ARE IDENTIFIED WITH TIME OF DAY CONTROL (OCCUPANCY SENSOR, MANUAL SWITCH), IT SHALL OPERATE THE LIGHTING DURING OFF/DIMMED HOURS. TIME OF DAY CONTROLLED LIGHTING SHALL REMAIN OFF UNTIL FIRST DEVICE IS ACTIVATED AFTER SCHEDULED "ON" TIME OCCURS.

2. ZONE MAY CONTAIN SEVERAL CONTROL LOCATIONS (OCCUPANCY SENSORS/MANUAL SWITCHES). COORDINATE QUANTITIES WITH FLOOR PLAN.

3. ALL SEQUENCE OF OPERATIONS TO BE CONFIRMED BY OWNER AND CONSULTANT DURING THE PROGRAM REQUIREMENTS AND OPERATIONS MEETING.

4. DAYLIGHT ZONES TO INITIALLY GO TO 100% OUTPUT, THEN GRADUALLY DIM DOWN TO THE APPROPRIATE LEVEL, AS DETERMINED BY THE DAYLIGHT SENSOR.

5. BUILDING OPERATIONAL HOURS TO BE CONFIRMED BY OWNER PRIOR TO PROGRAMMING.



revisions	date
5	ISSUED FOR TENDER 09.15.2017
4	RS4 - 100% SUBMISSION 09.01.2017
3	RS4 - 99% SUBMISSION 06.30.2017
2	RS4 - 66% SUBMISSION 06.01.2017
1	RS4 - 33% SUBMISSION 04.30.2017
0	RS3 SUBMISSION 03.31.2017

project GREEN GABLES-PHASE 2
NEW VISITOR CENTRE
QUEENS CO., PEI

drawing ELECTRICAL
LIGHTING SCHEDULE & CONTROLS SCHEME

designed JAS
date MAR-2017
drawn ALW
date MAR-2017
approved
date
Tender Soumission
PWSC Project Manager Administrateur de projets TPSCC
project number R.081199.001
drawing no. EL03 OF 3