

ELECTRICAL LEGEND			
POWER AND TELECOMM.		LIGHTING CONT'D	
	5-15R DUPLEX RECEPTACLE		WALL MOUNTED EMERGENCY REMOTE HEAD
	2 x 5-15R DUPLEX RECEPTACLES	SYSTEMS	
	5-20R DUPLEX RECEPTACLE		FIRE ALARM MANUAL PULL STATION
	VOICE/DATA OUTLET		FIRE ALARM BELL
	PANELBOARD		SMOKE DETECTOR
	DIRECT ELECTRICAL CONNECTION TO EQUIPMENT (TYPE AS INDICATED)		SECURITY KEYPAD
	LOCAL DISCONNECT		MOTION DETECTOR
	HEATER		HEAT DETECTOR
LIGHTING			FIRE ALARM STROBE
	SURFACE MOUNTED FIXTURE (TYPE AS INDICATED)		DOOR CONTACT
	RECESSED DOWNLIGHT (TYPE AS INDICATED)	SINGLE LINE DIAGRAM	
	SUSPENDED DOWNLIGHT (TYPE AS INDICATED)		GENERATOR
	WALL MOUNTED FIXTURE (TYPE AS INDICATED)		TRANSFORMER
	OCCUPANCY SWITCH		TRANSFER SWITCH
	LINE VOLTAGE SWITCH		
	WALL MOUNTED EXIT LIGHT		PANEL
	PHOTOCELL		
	CEILING MOUNTED EMERGENCY BATTERY UNIT		
	DIMMER SWITCH		BREAKER
	TRACK LIGHTING		FUSED DISCONNECT SWITCH
	CEILING MOUNTED EMERGENCY REMOTE HEAD		WEATHER HEAD
	WALL MOUNTED EMERGENCY BATTERY UNIT		METERING

ANNOTATIONS	
CTP = COUNTER-TOP HEIGHT GFCI = GROUND FAULT CIRCUIT INTERRUPTER WP = WEATHERPROOF	

Remarks	Power:	120/208 V	3	a	4	W		PANEL	C		SYM. IC:	18000	A													
	# OF CKTS:	72						LOCATION	BASEMENT		MAINS:	400	A													
	INCOMING:										MAIN BKR:	N/A	A													
Remarks								CKT #		Watts	BKR	PHASE			Watts	CKT#								Remarks		
											a	b	c	BKR												
	Designation																Designation									
	Cash Register							1	240	15	X				15	120	2	Cash Register								
	Cash Register							3	240	15	X				15	120	4	Cash Register								
	Cash Register							5	240	15		X			15	120	6	Cash Register								
	General use receptacle							7	120	15	X				15	120	8	General use receptacle								
	General use receptacle							9	120	15	X				15	120	10	Basement Receptacle								
	Sump Pump (Basement)							11	1440	15			X			2000	12									
	UPS							13	2200	20	X				25	2000	14	Unit Heater (basement)								
	Exhaust Fan (roof)							15	760	20		X				500	16									
								17	4203				X			15	500	18	Baseboard Heater D105							
								19	4203				X			15	114	20	CPF-1, CPF-2, CPF-3							
	Condenser Unit							21	4203	50		X				15		22	Spare							
								23	12573					X		15	550	24	Barn Lights							
								25	12573				X			15		26	Basement lights							
	AHU-1							27	12573	110			X			15		28	Spare							
								29					X			15		30	Spare							
								31					X			15		32	Spare							
	Spare							33		30			X			15		34	Spare							
								35						X		15		36	Spare							
								37					X			15		38	Spare							
	Spare							39		30			X			15		40	Spare							
								41					X			15		42	Spare							
	Spare							43		25			X			15		44	Spare							
								45					X			15		46	Spare							
	Spare							47		20			X			15		48	Spare							
	Spare							49		20	X					15		50	Spare							
	Spare							51		20		X				15		52	Spare							
	Spare							53		20		X				15		54	Spare							
Spare							55		20	X					15		56	Spare								
Spare							57		20		X				15		58	Spare								
Spare							59		20		X				15		60	Spare								
Spare							61		20	X					15		62	Spare								
Spare							63		20		X				15		64	Spare								
Spare							65		20			X			15		66	Spare								
Spare							67		20	X					15		68	Spare								
Spare							69		20		X				15		70	Mechanical Controls								
Spare							71		20			X			15		72	Mechanical Controls								
FEEDER:												SOURCE:		BARN MAIN ELECTRICAL PANEL												
Remarks:																										
												Phase A Total										21690.4	W	180.8	A	
												Phase B Total										18636.4	W	155.3	A	
												Phase C Total										21626.4	W	180.2	A	
												TOTAL										61953.2	W	172.2	A	

ELECTRIC HEATER SCHEDULE					
UNIT #	TYPE	CAPACITY	VOLTAGE	# OF POLES	REMARKS
BB-1	BASEBOARD	1000 W	208 V	2	WITH INTEGRAL THERMOSTAT
UH-1	WALL MOUNT	4000 W	208 V	2	WITH INTEGRAL THERMOSTAT

LIGHTING FIXTURE SCHEDULE AND SPECIFICATION										
TYPE	DESCRIPTION	ADDITIONAL DESCRIPTION	LAMP TYPE	NUMBER OF LAMPS	LAMP WATTAGE	FIXTURE WATTAGE	COLOUR TEMPERATURE (K)	FINISH	BALLAST/DRIVER TYPE	VOLTAGE
L1	1200 mm SURFACE MOUNTED FIXURE	SPECIFICATION GRADE LENSED LED STRIPLIGHT, SEMI-FROSTED LENS, 3600 LUMENS	LED	N/A	N/A	41	3500	WHITE	ELECTRONIC	120
L2	508 mm DIAMETER SUSPENDED DOME PENDANT	C/W RIGID STE. SUSPENDED AT 4200 mm AFF. 5850 LUMENS	LED	N/A	N/A	55	3500	BLACK	ELECTRONIC	120
L4	150 mm RECESSED DOWNLIGHT	SPECIFICATION GRADE RECESSED DOWNLIGHT, IP66 RATED, 1800 LUMENS, MEDIUM BEAM.	LED	N/A	N/A	32	3500	SEMI-SPECULAR	ELECTRONIC	120
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.									

The Association of
Professional Engineers
of the Province of
Prince Edward Island
VALID FOR THE YEAR 2016

Randy O'Connor
Randy O'Connor
No. 1275
DATE: *Nov 30 2016*

LICENSED
PROFESSIONAL ENGINEER
PROVINCE OF
PRINCE EDWARD ISLAND

2	ISSUED FOR TENDER	11.29 2016
1	100% SUBMISSION	11.23 2016
0	99% SUBMISSION	11.08 2016
revisions		date

project GREEN GABLES-PHASE 1
BARN EXPANSION
AND RENOVATION
QUEENS CO., PEI

drawing ELECTRICAL
designed JAS
date NOV-2016
drawn ALW
date NOV-2016
approved
date
Tender
PWGSC Project Manager
project number R.081199.001
drawing no. E01 OF 7