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

drawing ELECTRICAL
designed JAS
date NOV-2016
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date NOV-2016
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Tender
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The Association of Professional Engineers of the Province of Prince Edward Island
VALID FOR THE YEAR 2016
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DATE: Nov 3-16
LICENSED PROFESSIONAL ENGINEER
PROVINCE OF PRINCE EDWARD ISLAND

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		PANEL
	WALL MOUNTED EXIT LIGHT		BREAKER
	PHOTOCELL		FUSED DISCONNECT SWITCH
	CEILING MOUNTED EMERGENCY BATTERY UNIT		WEATHER HEAD
	DIMMER SWITCH		METERING
	TRACK LIGHTING		
	CEILING MOUNTED EMERGENCY REMOTE HEAD		
	WALL MOUNTED EMERGENCY BATTERY UNIT		

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

Power: 120/208 V 3 @ 4 W	# OF CKTS.: 72	PANEL C		SYM. IC: 18000 A						
		LOCATION BASEMENT		MAINS: 400 A						
INCOMING:		MAIN BKR: N/A		A						
Remarks	Designation	CKT #	Watts	PHASE			Watts	CKT#	Designation	Remarks
				a	b	c				
	Cash Register	1	240	15	X		15	2	Cash Register	
	Cash Register	3	240	15	X		15	4	Cash Register	
	Cash Register	5	240	15	X		15	6	Cash Register	
	General use receptacle	7	120	15	X		15	8	General use receptacle	
	General use receptacle	9	120	15	X		15	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			X		15	34		Spare
		35			X		15	36		Spare
		37			X		15	38		Spare
	Spare	39			X		15	40		Spare
		41			X		15	42		Spare
	Spare	43			X		15	44		Spare
		45			X		15	46		Spare
	Spare	47			X		15	48		Spare
	Spare	49			X		15	50		Spare
	Spare	51			X		15	52		Spare
	Spare	53			X		15	54		Spare
	Spare	55			X		15	56		Spare
	Spare	57			X		15	58		Spare
	Spare	59			X		15	60		Spare
	Spare	61			X		15	62		Spare
	Spare	63			X		15	64		Spare
	Spare	65			X		15	66		Spare
	Spare	67			X		15	68		Spare
	Spare	69			X		15	70		Mechanical Controls
	Spare	71			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 FIXTURE	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	CAW 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.									