

Power: 120/208 V 3 Ø 4 W		PANEL F		SYM. IC.: 25000 A			
# OF CKTS.: 42		LOCATION FIRE PUMP BUILDING		MAINS: 100 A			
INCOMING:		MAIN BKR: 100 A					
Designation	CKT #	Watts	BKR	PHASE	Watts	CKT #	Designation
UNIT HEATER (UH-1)	1	1500	20A	X	15A	500	2
UNIT HEATER (UH-2)	3	1500	2P	X	15A	1130	4
	5	1500	20A	X	60A	2880	6
	7	1500	2P	X	20A	865	8
SPARE	9		15A	X	15A	500	10
LIGHTING	11	135	15A	X	15A	360	12
SECURITY PANEL	13	500	15A	X	15A		14
SPARE	15		15A	X	15A		16
SPARE	17		15A	X	15A		18
SPARE	19		15A	X	15A		20
SPARE	21		15A	X			22
SPARE	23		15A	X			24
	25		2P	X			26
	27			X			28
	29			X			30
	31			X			32
	33			X			34
	35			X			36
	37			X			38
	39			X			40
	41			X			42

Power: 120/208 V 3 Ø 4 W		PANEL G		SYM. IC.: 25000 A			
# OF CKTS.: 42		LOCATION GENERATOR BUILDING		MAINS: 225 A			
INCOMING:		MAIN BKR: 200 A					
Designation	CKT #	Watts	BKR	PHASE	Watts	CKT #	Designation
UNIT HEATER (UH-1)	1	1500	20A	X	15A	500	2
UNIT HEATER (UH-2)	3	1500	2P	X	15A		4
	5	1500	20A	X	15A		6
	7	1500	2P	X			8
GENERAL RECEPTACLES	9	360	15A	X	100A 3P	4865	10
LIGHTING	11	135	15A	X		3130	12
GENERATOR DAMPER CONTROLS	13	500	15A	X	15A		14
SPARE	15		15A	X	15A		16
SPARE	17		15A	X	15A		18
SPARE	19		15A	X	15A		20
SPARE	21		15A	X	15A	500	22
SPARE	23		15A	X	60A 2P		24
	25			X			26
	27			X			28
	29			X			30
	31			X			32
	33			X			34
	35			X			36
	37			X			38
	39			X			40
	41			X			42

Remarks:	1	CONFIRM EXACT BREAKER REQUIREMENTS WITH MECHANICAL PRIOR TO PURCHASING AND INSTALLING BREAKER	Phase A Total	4865	W	40.5	A
			Phase B Total	3130	W	26.1	A
			Phase C Total	4875	W	40.6	A
			TOTAL	12870	W	35.6	A

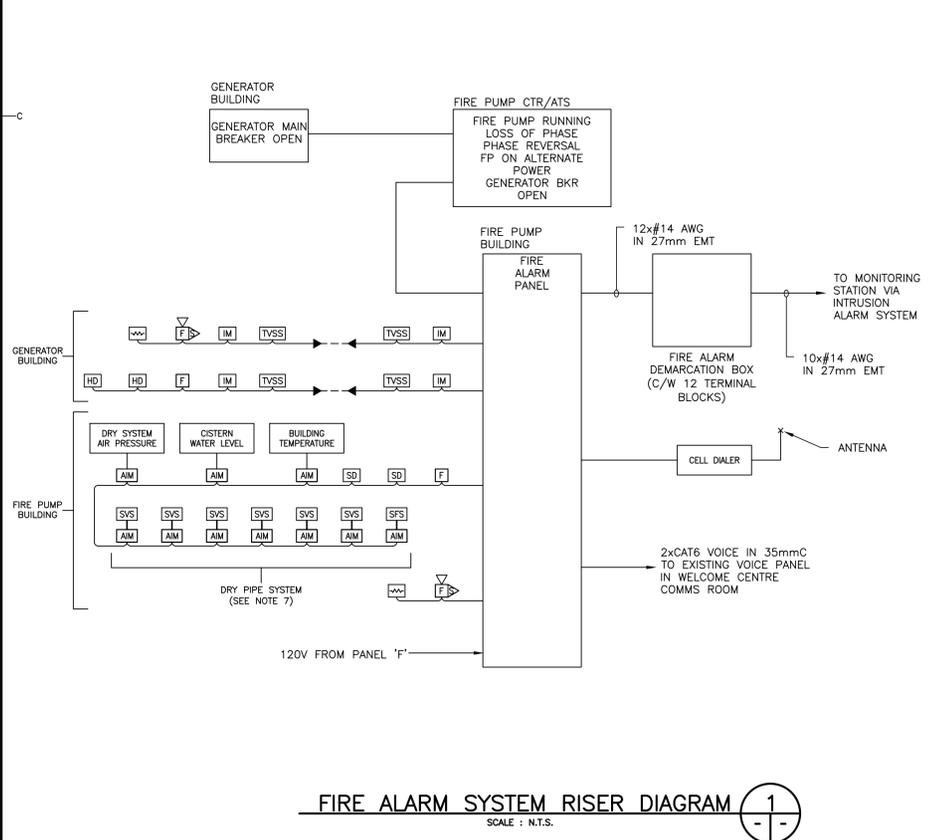
Remarks:	1	CONFIRM EXACT BREAKER REQUIREMENTS WITH MECHANICAL PRIOR TO PURCHASING AND INSTALLING BREAKER	Phase A Total	8865	W	73.9	A
			Phase B Total	5490	W	45.8	A
			Phase C Total	6510	W	54.3	A
			TOTAL	20865	W	88.0	A

LIGHTING FIXTURE SCHEDULE AND SPECIFICATION									
TYPE	DESCRIPTION	ADDITIONAL DESCRIPTION	LAMP TYPE	FIXTURE WATTAGE	VOLTAGE	COLOUR TEMPERATURE (K)	FINISH	LISTINGS	BALLAST/DRIVER TYPE
L1	1200mm x 150mm SUSPENDED VAPOR TIGHT FIXTURE	3000 LUMENS, SURFACE OR SUSPENDED AT 2300mm A.F.F.	LED	22	120	3500	WHITE		ELECTRONIC
L2	EXTERIOR WALL MOUNTED FIXTURE	SPECIFICATIONS GRADE, 1100 LUMENS, IP65	LED	14	120	4000	BLACK	IP65	ELECTRONIC

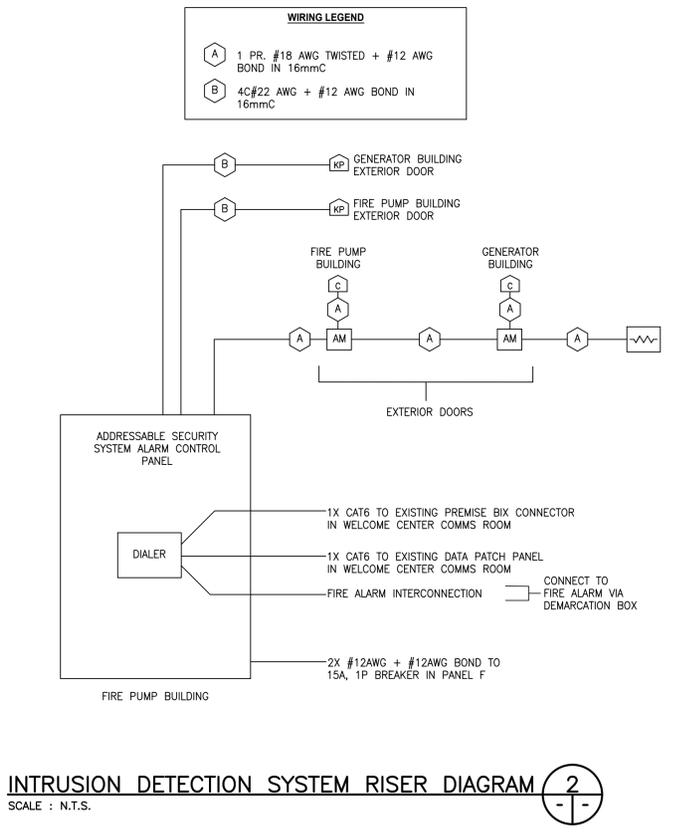
NOTES

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.

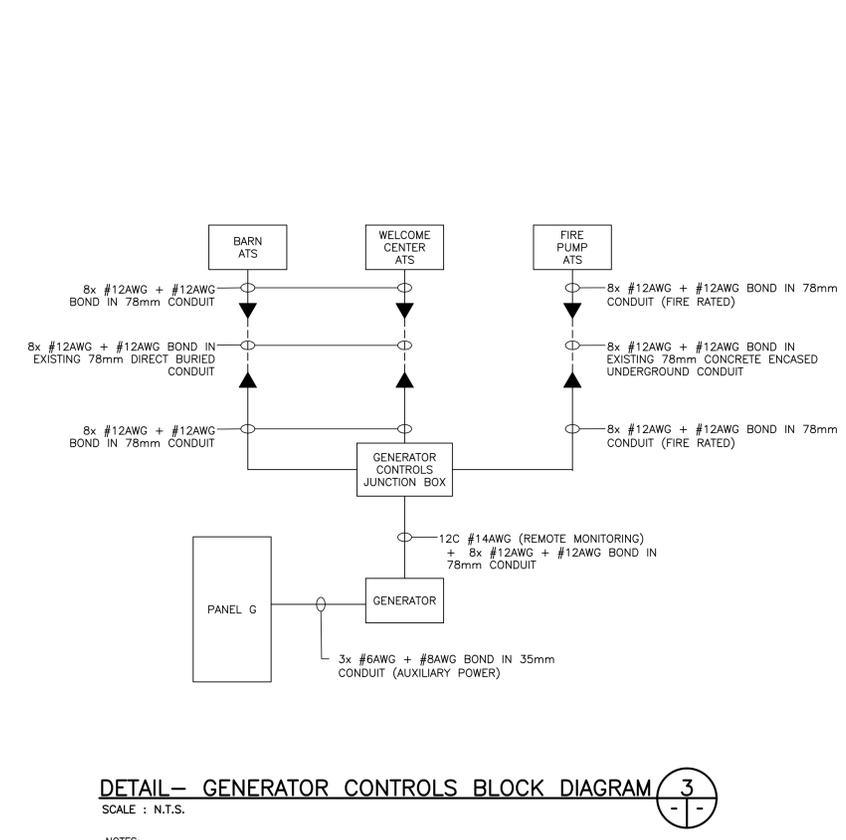
- NOTES:
- ALL WIRING TO BE INSTALLED AS PER MANUFACTURERS RECOMMENDATIONS.
 - VERIFY EXACT LOCATION AND QUANTITY OF DEVICES ON FLOOR PLANS PRIOR TO CLOSE OF TENDER. RISER DIAGRAMS INDICATES TYPICAL WIRING ONLY.
 - ALL WIRING SHALL BE INSTALLED IN A CONDUIT SYSTEM.
 - WIRE MAXIMUM OF 15 SECURITY DEVICES PER 305m LOOP. ALL LOOPS SHALL BE AS EVENLY LOADED AS POSSIBLE.
 - ALL WIRING FOR ADDRESSABLE LOOPS SHALL BE 2PR.#18 + #12 BOND IN 16mmC.
 - LOCATE MOTION SENSORS MINIMUM OF 1830mm FROM ANY SUPPLY OR RETURN GRILL. COORDINATE WITH OTHER TRADES.
 - COORDINATE QUANTITY AND LOCATION WITH FIRE PROTECTION INSTALLER. INCLUDE FOR A MINIMUM OF 10 MONITORED VALVES AND FLOW DEVICES.



FIRE ALARM SYSTEM RISER DIAGRAM 1
SCALE : N.T.S.



INTRUSION DETECTION SYSTEM RISER DIAGRAM 2
SCALE : N.T.S.



DETAIL- GENERATOR CONTROLS BLOCK DIAGRAM 3
SCALE : N.T.S.

- NOTES:
- FIELD LOCATE GENERATOR CONTROLS JUNCTION BOX IN GENERATOR BUILDING. PROVIDE TERMINAL BLOCKS AS REQUIRED.
 - LOSS OF NORMAL POWER SIGNAL FROM ANY ATS SHALL START GENERATOR.
 - GENERATOR STEPS TO BE AS FOLLOWS:
STEP 1 - FIRE PUMP ATS
STEP 2 - WELCOME CENTER ATS
STEP 3 - BARN ATS

The Association of Professional Engineers and the Province of Prince Edward Island
Randy O'Connor
No. 1275
DATE: JAN. 17 2020
LICENSED PROFESSIONAL ENGINEER
Province of Prince Edward Island

revisions	date
0	ISSUED FOR TENDER 01.20 2020

**GREEN GABLES-PHASE 4
FIRE PROTECTION SYSTEM
AND EMERGENCY POWER
QUEENS CO., PEI**

**ELECTRICAL
RISER DIAGRAMS
AND
SCHEDULES**

designed	TGC	conçu
date	NOV-2019	
drawn	JCM	dessiné
date	NOV-2019	
approved		approuvé
date		
Tender		Soumission
PWSC Project Manager	Administrateur de projets TPSC	no. du projet
R.081199.001		
drawing no.		no. du dessin
E07		