


 **MAIN FLOOR LIGHTING LAYOUT**  
SCALE = 1 : 100

CONSTRUCTION  
NORTH

 **MAIN FLOOR POWER LAYOUT**  
SCALE = 1 : 100

CONSTRUCTION  
NORTH

 **KEY PLAN**  
SCALE = 1 : 2000  
TRUE NORTH

# LEGEND

LIGHT FIXTURES	
WALL MOUNT LIGHT FIXTURE -----	
4' LIGHT STRIP FIXTURE -----	
PENDANT LIGHT FIXTURE -----	
FIXTURE TYPE DESIGNATION -----	(A)
RECEPTACLES/OUTLETS	
T-SLOT (5-20R) RECEPTACLE -----	
QUAD T-SLOT (5-20R) RECEPTACLE -----	
RECEPTACLE-DUPLEX -----	
QUAD RECEPTACLE -----	
SPECIAL RECEPTACLE -----	
DIRECT CONNECTION -----	
DESIGNATION FOR RECEPTACLE: -----	
WP -----	C/W "WHILE IN USE EXTRA DUTY WEATHER PROOFED COVER PLATE"
SWITCHES	
SINGLE POLE SWITCH -----	
DESIGNATION FOR SWITCH: -----	
3 OR 4 -----	3 OR 4-WAY SWITCH
D -----	DIM SWITCH
V -----	VARIABLE SPEED CONTROL SWITCH
MOTORS,. ETC.	
LOCAL DISCONNECT -----	
MOTORIZED EQUIPMENT -----	
MOTORIZED EQUIPMENT WITH SWITCH -----	
MOTORIZED EQUIPMENT WITH LOCAL DISCONNECT SWITCH -----	
NON MOTORIZED EQUIPMENT -----	
EMERGENCY	
DOUBLE EMERGENCY LIGHT-REMOTE HEAD -----	
EMERGENCY LIGHT, BATTERY PACK (C/W 2 HEADS) -----	
EXIT LIGHTS -----	
EXIT & EMERGENCY LIGHT, BATTERY PACK COMBO -----	
DOUBLE SIDED EXIT LIGHTS -----	
MISCELLANEOUS	
THEMOSTAT/TEMPERATURE SENSOR -----	(T)
DESIGNATION FOR RECEPTACLE/OUTLET: -----	
WP -----	WEATHERPROOF "WHILE IN USE"
GFI -----	GROUND FAULT INTERRUPT
+1067 -----	1067MM AFF
AFG -----	ABOVE FINISHED GRADE



PANEL A120/208 VOLT, 3 PH, 4 W, 225 AMP											
DESCRIPTION	FEED	LOAD	BKR	BUS			BKR	LOAD	FEED	DESCRIPTION	
				A	B	C					
INTERIOR LIT/EXIT/EM LIT	#12		15A	1	•		2	20A		#12	SHOP REC.
SHOP REC.	#12		20A	3	•		4	20A		#12	SHOP REC.
SHOP REC.	#12		20A	5		•	6	20A		#12	SHOP REC.
INTERIOR LIT	#12		15A	7	•		8	20A		#12	SHOP REC.
SHOP REC.	#12		20A	9	•		10	20A		#12	SHOP REC.
SHOP REC.	#12		20A	11		•	12	20A		#12	SHOP REC.
EXTERIOR LIGHTS	#12		15A	13	•		14	20A		#12	SHOP REC.
SHED REC.	#12		20A	15	•		16				
* SHOP SPECIAL REC.	#10		20A	17	•		18				
	#10		2P	19	•		20				
* SHOP SPECIAL REC.	#10		20A	21	•		22	45A		#10	DUST COLLECTOR
	#10		2P	23		•	24	2P		#10	
EF-1	#12		20A	25	•		26	15A		#12	IR-1
ROOF REC.	#12		20A	27	•		28	15A		#12	IR-2
				29		•	30	15A		#12	UH-1
				31	•		32				
				33			34				
				35		•	36				
SPARE			15A	37	•		38	15A			SPARE
SPARE			15A	39			40	15A			SPARE
SPARE			15A	41			42	15A			SPARE

\* -E/C TO CONSULT W/ OWNER PRIOR TO ROUGH-IN FOR SPECIAL RECEPTACLE REQUIREMENTS AND PROVIDE CIRCUIT BREAKER AND WIRE ACCORDINGLY AND AS PER CEC.

- NOTES:
- BUILDING LIGHTING CIRCUIT AND EXIT/EMERGENCY LIGHTS CIRCUIT TO BE ON THE SAME PHASE.

LIGHTING FIXTURE SCHEDULE					
TYPE	DESCRIPTION	MOUNTING	LAMPS	VOLTS	REMARKS
Ⓐ	PHILIPS FBX-20L-L-40-UNV-LCP; WG-FBX-2W	PENDENT	142W LED	120	C/W WIREGUARD
Ⓑ	PHILIPS FSS-4-40L-840-UNV-DIM; FSSWG-4	SURFACE	31W LED	120	C/W WIREGUARD
ⓧ	PHILIPS LYTEPRO LPW32-78BZ	WALL	71W LED	120	-
Ⓨ	PHILIPS LYTEPRO LPW16-78BZ	WALL	36W LED	120	-

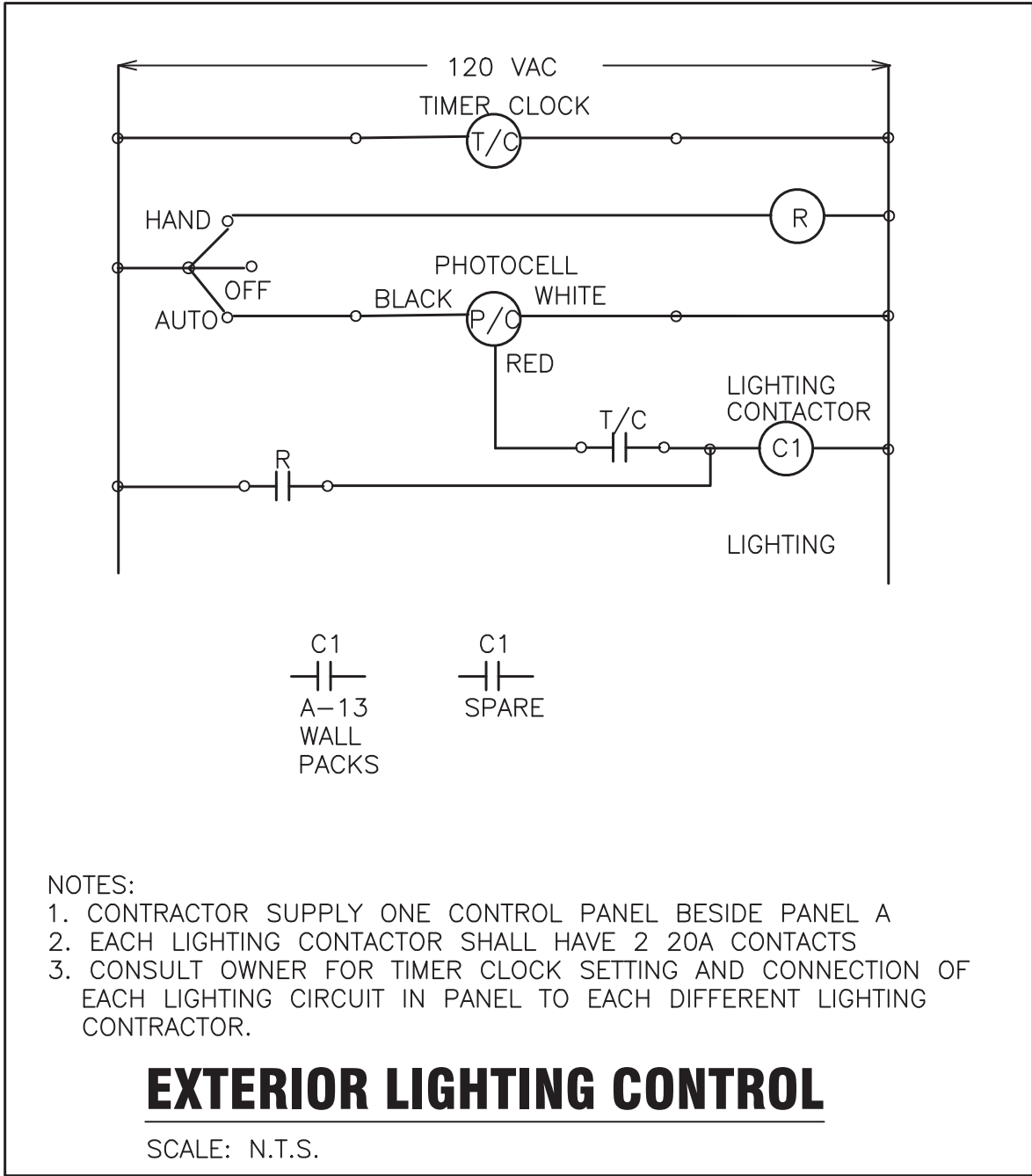
NOTE:  
LIGHTING FIXTURES SPECIFIED ARE TO BE USED FOR SETTING THE STANDARD. ONLY EQUAL OR BETTER ONES WILL BE ACCEPTED AS EQUIVALENT.

### EMERGENCY LIGHTING EQUIPMENT SCHEDULE

- UNLESS OTHERWISE NOTED, EMERGENCY BATTERY PACKS SHALL BE 'EMERGI-LITE' JMLC SERIES 72W CAPACITY C/W TWO LIGHT HEADS WITH 5 WATT LED LAMPS.
- ELECTRICAL CONTRACTOR SHALL SIZE BATTERY PACKS WITH MINIMUM 25% SPARE CAPACITY.
- UNLESS OTHERWISE NOTED, EMERGENCY LIGHT REMOTE HEADS SHALL BE 'EMERGI-LITE', EF9M SERIES C/W 5 WATT LED LAMPS. SEE DRAWING FOR EXACT NUMBER OF HEADS ON EACH UNIT.
- UNLESS OTHERWISE NOTED, EXIT SIGNS SHALL BE 'EMERGI-LITE' ES SERIES SELF POWERED, UNIVERSAL FACE, UNIVERSAL MOUNTING AND C/W LED LAMPS.
- UNLESS OTHERWISE NOTED, EMERGENCY EXIT/EMERGENCY BATTERY PACK COMBO SHALL BE 'EMERGI-LITE' ESC SERIES 50W CAPACITY, UNIVERSAL MOUNTING, UNIVERSAL FACE, AND C/W LED LAMPS AND TWO LIGHT HEADS WITH 5W LED LAMP.
- LOW VOLTAGE TO BE 12V.

#### NOTES:

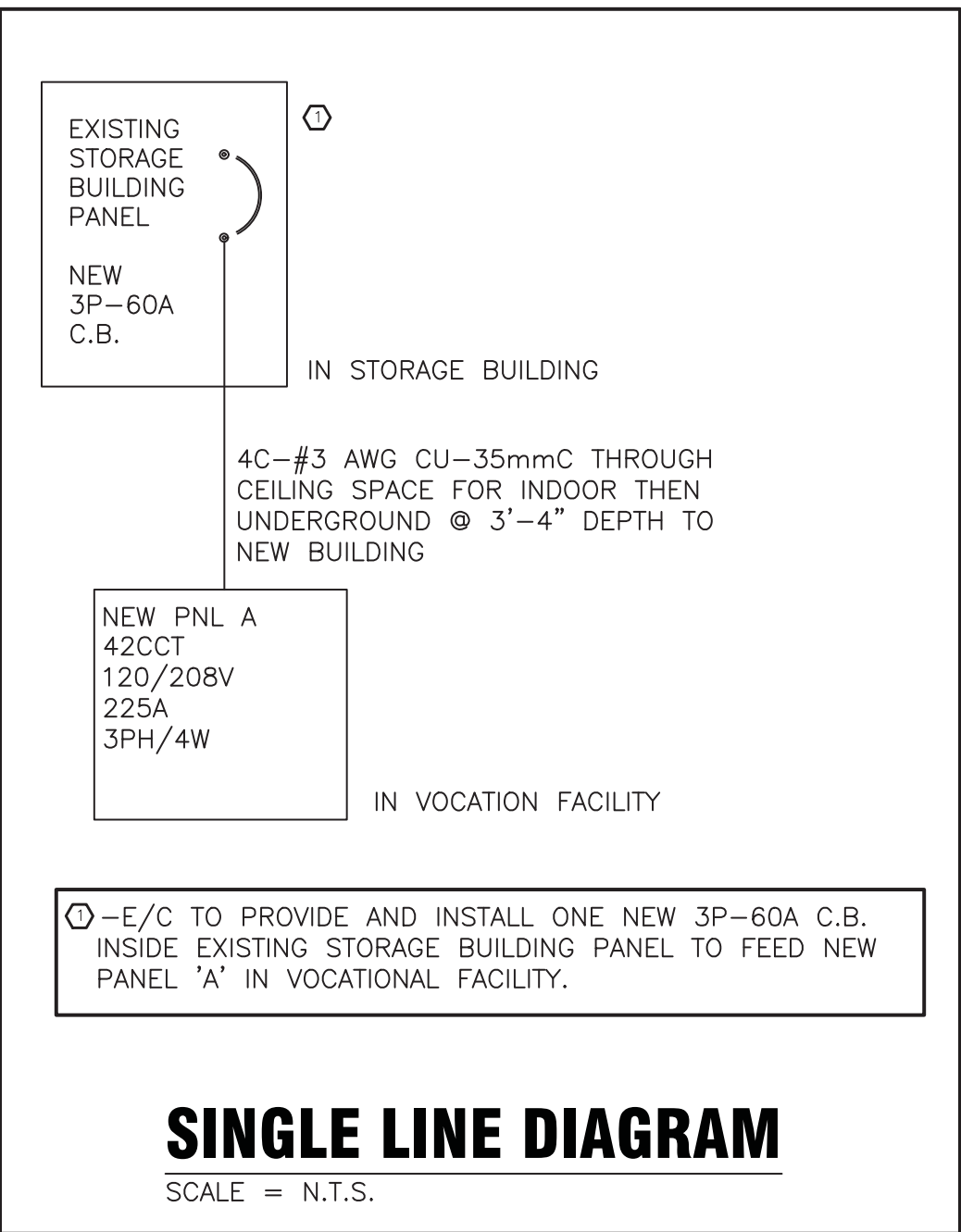
- THE ELECTRICAL CONTRACTOR SHALL SIZE WIRES WITH MAXIMUM 3% VOLTAGE DROP.
- ALL EMERGENCY LIGHTS AND EXIT SIGNS HAVE TO HAVE BATTERY SIZED FOR MINIMUM 60 MINUTES LOAD TEST.
- APPROVED EQUIVALENT PRODUCTS SHALL BE 'LUMACELL', 'READY-LITE', AND EMERGI-LITE'.



- NOTES:
- CONTRACTOR SUPPLY ONE CONTROL PANEL BESIDE PANEL A
  - EACH LIGHTING CONTACTOR SHALL HAVE 2 20A CONTACTS
  - CONSULT OWNER FOR TIMER CLOCK SETTING AND CONNECTION OF EACH LIGHTING CIRCUIT IN PANEL TO EACH DIFFERENT LIGHTING CONTRACTOR.

### EXTERIOR LIGHTING CONTROL

SCALE: N.T.S.



EQUIPMENT MOTOR SCHEDULE									
MOTOR									
SYMBOL	DESCRIPTION	H.P. or WATTS	VOLTAGE	PHASE	F.L.A.	BREAKER/FUSE	FEEDER SIZE	CONTROL MEANS	
EF-1	ROOF EXHAUST FAN	1/2HP	120	1	9.8	20A	#12	MS	C/W VARIABLE SPEED SWITCH; INTERLOCK W/ MD-1
IR-1,2	INFRARED HEATER		120	1		15A	#12	LS	
MD-1	MOTORIZED DAMPER	FHP	120	1	-	15A	#12	RS	INTERLOCK W/ EF-1
UH-1	UNIT HEATER	FHP	120	1	-	15A	#12	LS	CONTROLLED BY T'STAT

LS - ILLUMINATED LOAD SWITCH  
DS - LOCAL DISCONNECT SWITCH  
MS - MAGNETIC STARTER C/W HOA SWITCH AND ON/OFF DISCONNECT (EXTERNAL OR COMBINED DEPENDING ON LOCATION)SWITCH AND ILLUMINATED LIGHTS  
RS - RELAY CONTACT AND ILLUMINATED LOAD SWITCH

GENERAL NOTES FOR MECH. EQUIP. CONNECTION:

MOTOR DISCONNECT SWITCHES AND STARTERS (INCLUDING MAGNETIC STARTERS FOR INTERLOCKING AND 3 PHASE) SHALL BE BY E/C UNLESS OTHERWISE SPECIFIED.  
E/C SHALL PROVIDE LOCKABLE ELECTRIC DISCONNECTS FOR UNITS OVER 1/3HP FOR SERVICING RIGHT AT THE UNIT. MOTORS UNDER 5HP JUST RUNS OFF CONTACTORS.

ANY OTHER MOTORS WHICH NEED TO BE CONTROLLED MUST HAVE MAGNETIC STARTER C/W HOA SWITCH BY E/C.

E/C SHALL WIRE IN LINE VOLTAGE THERMOSTATS, ELECTRIC HEATERS, AND CONTROL TRANSFORMERS PROVIDED BY M/C.  
M/C SHALL COMPLETE HIS OWN CONTROLS WIRING WHICH HE/SHE MAY SEPARATELY CONTRACT THE E/C TO DO FOR HIM/HER.

E/C SHALL PARTICULARLY WIRE UP OVERRIDE TIMERS AND INTERLOCKS WITH HIS/HER OWN CONDUIT AND RELAYS.

E/C SHALL PROVIDE MAGNETIC MOTOR STARTERS C/W HOA SWITCH ON UNITS OVER 1/3HP WHICH REQUIRE REMOTE CONTROL SWITCHING. EG. FOR FANS, ETC.

ALL WIRING 24 VOLTS AND ABOVE, THERMOSTAT, RELAYS, AND INTERLOCK WIRING SHALL BE THE RESPONSIBILITY OF THE E/C UNLESS SPECIFIED OTHERWISE. CONFIRM VOLTAGES ON SITE BEFORE ORDERING EQUIPMENT.

ALL MOTORS BELOW 1/3HP SHOULD BE C/W LOAD SWITCH.

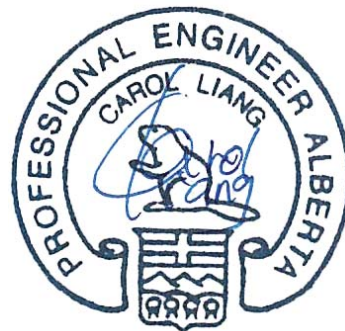
### ELECTRICAL CONSULTANT



### PERMIT

**PERMIT TO PRACTICE**  
ACUITY ENGINEERING & CONSULTING SERVICES LTD.  
**PERMIT NUMBER: P09250**  
The Association of Professional Engineers and Geoscientists of Alberta

### STAMP



2018/12/05

### DO NOT SCALE DRAWINGS

6	ISSUED FOR TENDER	2018/12/05
5	ISSUED FOR 99% REVIEW	2018/11/16
4	ISSUED FOR TENDER	2016/01/05
3	ISSUED FOR 100% REVIEW	2015/11/13
2	ISSUED FOR 99% REVIEW	2015/08/26
1	ISSUED FOR REVIEW	2015/06/12

Revision/Revision	Description/Description	Date/Date
Client/client		

### PUBLIC WORKS AND GOVERNMENT SERVICES CANADA

Project title/Titre du projet

### PÊ SÂKÂSTÊW CENTRE MASKWACIS, ALBERTA VOCATIONAL FACILITY DESIGN

Approved by/Approuvé par YY
Designed by/Concept par CL
Drawn by/Dessiné par LB
PWGSC Project Manager/Administrateur de Projets TPSGC STEVE PHYPERS
PWGSC Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'ingénierie, TPSGC
Client/client PWGSC

Drawing title/Titre du dessin  
**ELECTRICAL- SCHEDULES**

Project No./No. du projet <b>R.072604.001 3824</b>	Sheet/Fauille <b>E-2.0</b>	Revision no./La Révision no. <b>5</b>
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