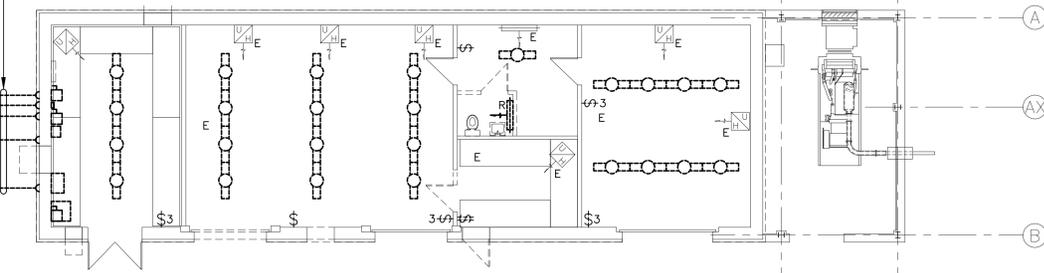


UNDERGROUND WIRING FOR NORMAL POWER FROM MCTS AND EMERGENCY POWER TO MCTS. SEE NOTE 1.

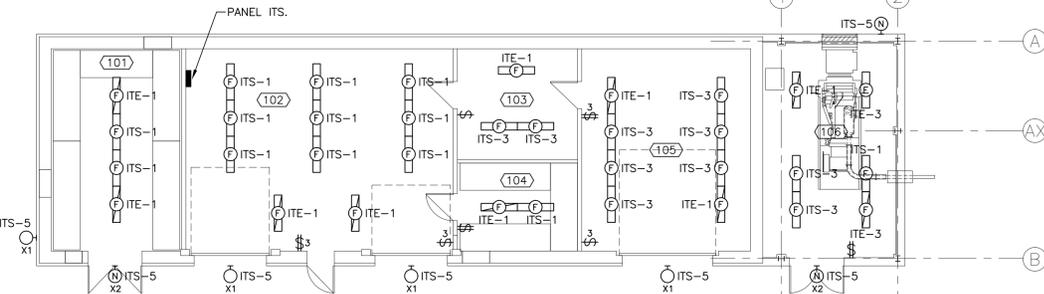


EXISTING/DEMOLITION PLAN (NOTE 1)

SCALE : 1:100

0m 1m 2m 3m 4m 5m 6m 7m 8m 9m 10m

1
E7

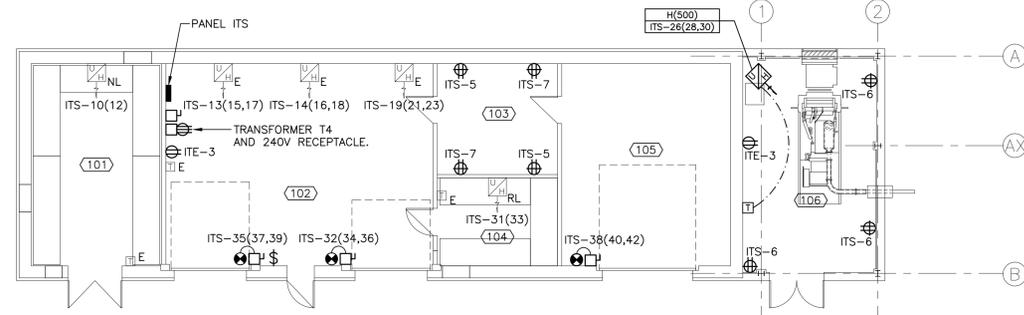


LIGHTING PLAN

SCALE : 1:100

0m 1m 2m 3m 4m 5m 6m 7m 8m 9m 10m

2
E7



POWER PLAN

SCALE : 1:100

0m 1m 2m 3m 4m 5m 6m 7m 8m 9m 10m

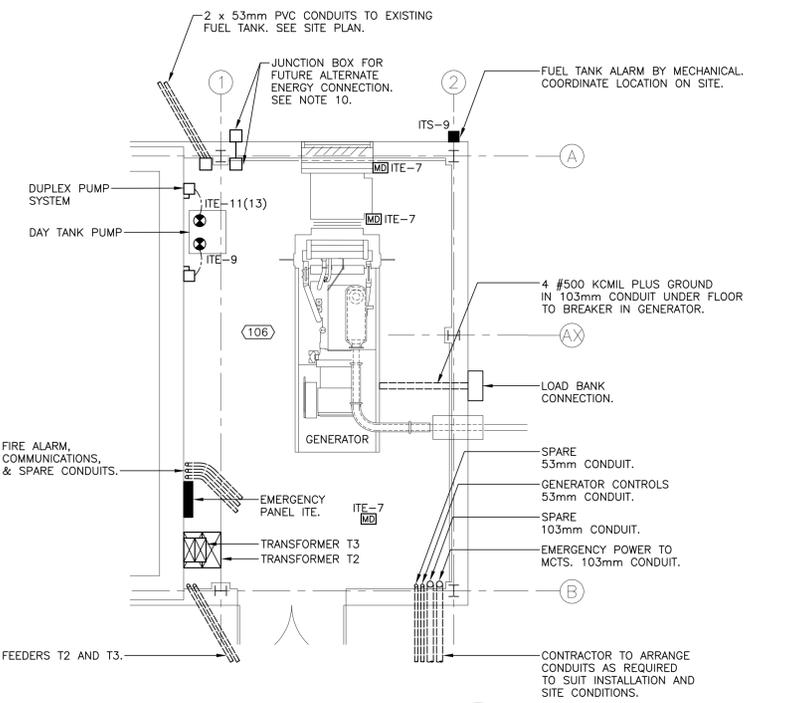
3
E7

PANEL: ITS LOCATION : ITS BLDG. RM 102 SERVICE : 120/208/3/60 MOUNTING : SURFACE BRANCH BREAKER I.C. : 200 AMP. MAINS. : 25k AMP. RMS SYM.

LOAD DESCRIPTION	LOAD	WIRE	BKR	CIRCUIT	BKR	WIRE	LOAD	LOAD DESCRIPTION	PHASE LOAD				
									A	B	C		
LIGHTING-INTERIOR	492	12	15	1	2	15	12	400	RECEPTACLES-EXISTING (NOTE 3)	892			
LIGHTING-INTERIOR	533	12	15	3	4	15	12	200	RECEPTACLES-EXISTING (NOTE 3)		733		
LIGHTING - EXTERIOR	480	12	15	5	6	15	12	200	RECEPTACLES RM. 106			680	
NEW REC. RM. 103	400	12	15	7	8	15	12	200	RECEPT. RM. 101-EXIST. (NOTE 3)	600			
FUEL TANK ALARM	100	12	15	9	10	15	12	3000	HEATER RM. 101 - EXISTING		1500		
SPARE				20	11	12						2364	
EXISTING HEATER RM. 102	5000	12	20	13	14	20	12	5000	HEATER RM. 102 - EXISTING		3333		
				17	18							3333	
EXISTING HEATER RM. 102	5000	12	20	19	20	20	12	5000	HEATER RM. 105 - EXISTING			3333	
				23	24							3333	
EXISTING HEATER RM. 105	5000	12	20	25	26	20	12	5000	HEATER RM. 106			3333	
				27	28							3333	
				29	30							3333	
EXISTING HEATER RM. 104	2000	12	15	31	32	15	12	1260	3/4Hp O/H DOOR RM. 102		1420		
				33	34							840	
				35	36							840	
3/4Hp O/H DOOR RM. 102	1260	12	15	37	38	15	12	1260	3/4Hp O/H DOOR RM. 105		840		
				39	40							840	
SPARE				41	42							420	
NOTES:								CONNECTED LOAD	41.5 kW	TOTAL WATTS	13.2k	14.0k	14.3k
								ESTIMATED DEMAND	33.0 kW	TOTAL AMPS			

PANEL: ITE LOCATION : ITS BLDG. RM 102 SERVICE : 120/208/3/60 MOUNTING : SURFACE BRANCH BREAKER I.C. : 100 AMP. MAINS. : 22k AMP. RMS SYM.

LOAD DESCRIPTION	LOAD	WIRE	BKR	CIRCUIT	BKR	WIRE	LOAD	LOAD DESCRIPTION	PHASE LOAD				
									A	B	C		
EMERGENCY LIGHTING	410	12	15	1	2	15	12	800	REC. RM. 106		1210		
REC. RM. 102	200	12	15	3	4	50	8	7500	TRANSFORMER T-4			3950	
REC. RM. 103	400	12	15	5	6							4150	
MOTORIZED DAMPER	100	12	15	7	8	15			SPARE		100		
DAY TANK PUMP	864	12	20	9	10	15			SPARE				
DAY TANK DUPLEX PUMPS	2000	12	25	11	12	15			SPARE				
				13	14				PREPARED SPACE				
				15	16				PREPARED SPACE				
				17	18				PREPARED SPACE				
NOTES:								CONNECTED LOAD	9.4 kW	TOTAL WATTS	1310	3950	4150
								ESTIMATED DEMAND	6.0 kW	TOTAL AMPS			



GENERATOR ROOM

SCALE : 1:50

0m 1m 2m 3m 4m 5m

4
E7

NOTES:

- THE EXISTING GENERATOR AND ALL ASSOCIATED SERVICES WILL BE REMOVED BY OWNER. THE PANEL BOARD FOR CIRCUITS IN THE IT STORAGE BUILDING WILL REMAIN OPERATIONAL UNTIL THE POWER SUPPLY IS INSTALLED FROM THE NEW MCTS. AFTER THE NEW PANEL IS INSTALLED AND ENERGIZED, AND NEW LIGHTS & CIRCUITS ARE INSTALLED, THE EXISTING PANEL WILL BE REMOVED AND CIRCUITS REROUTED TO THE NEW PANEL.
- EXISTING HEATERS AND CONTROLS WILL REMAIN. PROVIDE NEW CIRCUITS IN NEW PANEL 'ITS'. CONTRACTOR TO CONFIRM ACTUAL CAPACITY, VOLTS AND PHASE OF ELECTRICAL HEATERS AND PROVIDE NEW CIRCUITS TO SUIT. REUSE EXISTING CONDUIT, WIRING AND CONTROLS WHERE SUITABLE AND REROUTE CIRCUITS TO NEW PANEL.
- PICK UP EXISTING RECEPTACLES CIRCUITS FOR RECEPTACLES AND REROUTE TO NEW PANEL. CONFIRM REQUIREMENTS ON SITE. ASSUME TWO CIRCUITS.
- INCLUDE ALL NECESSARY WIRE, CONDUITS, BOXES, AND SUPPORTS TO BE REROUTED AND EXTEND EXISTING CIRCUITS TO NEW PANEL.
- ALL DEMOLISHED MATERIALS INCLUDE WIRE, CONDUITS, BOXES, LIGHT FIXTURES, ETC. MUST BE DISPOSED IN ACCORDANCE WITH THE WASTE MANAGEMENT PLAN.
- CONTRACTOR TO REUSE EXISTING CONDUIT, BOXES, AND WIRE WHERE SUITABLE FOR THE NEW EQUIPMENT. EXISTING LIGHT SWITCHES TO BE REMOVED AND THE BOXES FITTED WITH BLANK COVERS. PROVIDE NEW SURFACE CONDUIT AND WIRING AS REQUIRED FOR NEW CIRCUITS AND LIGHTING CONTROL.
- LIGHT TYPE X1: EXISTING LED FLOOD LIGHTS. CONTRACTOR TO REMOVE AND STORE TO ACCOMMODATE NEW ARCHITECTURAL SIDING AND DOOR MODIFICATIONS. EXTEND OUTLET BOXES AND REINSTALL FIXTURES IN SAME LOCATIONS AFTER MODIFICATIONS ARE COMPLETE.
- LIGHT TYPE 'N': NEW FIXTURES AS INDICATED. CONNECT TO EXISTING EXTERIOR LIGHT CIRCUIT. C/W BUILT-IN PHOTOCELL.
- EXISTING LIGHT FIXTURES ARE 4' FLUORESCENT STRIP LIGHTS.
- PROVIDE A 200mm SQ. x 150mm DEEP NEMA 1 STEEL BOX IN GENERATOR ROOM 106 AND A 200mm SQ. x 150mm DEEP NEMA 4X POLYESTER BOX WITH GASKETED HINGED COVER ON THE EXTERIOR WALL. LABEL "ALTERNATE ENERGY SOURCE" FOR BOTH BOXES. MOUNT 1M ABOVE FLOOR AND CONNECT WITH 53mm CONDUIT.



APPROX. NORTH

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B	ISSUED FOR 99% REVIEW	MAY 25 2017
A	ISSUED FOR CLIENT REVIEW	APR 28 2017
revisions		date

project MCTS CENTRE AND C&P BUILDING PLACENTIA
drawing ITS STORAGE FACILITY
description ELECTRICAL PLANS

designed	D2	conçu
date	JUNE 28 2017	
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Project Manager	F. MacGillivray	Administrateur de projets TPSGC
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