Panel Board: EXISTING PANEL R741										Rating: 120/208V/3Ø/4Wire 225A
Item	Load(KW)	Breaker	CCT	A	B	C	CCT	Breaker	Load(KW)	Item
LIGHTS: UPSTAIRS	0.80	15A/1P	1	●			2	15A/1P	0.25	RECEPT. DOWNSTAIRS
LIGHTS: OUTSIDE	0.80	15A/1P	3		●		4	15A/1P	0.25	RECEPT. DOWNSTAIRS
LIGHTS: MAIN FLOOR	0.80	15A/1P	5			●	6	20A/1P		SPARE
LIGHTS: DOWNSTAIRS	0.80	15A/1P	7	●			8	15A/1P	2.50	WETWELL HEATER
LIGHTS: DOWNSTAIRS	0.80	15A/1P	9		●		10	15A/1P	0.25	SUMP PUMP VALVE HOUSE
LRV-1 PIT RECEPT.	0.25	15A/1P	11			●	12	15A/1P	0.25	COMPRESSOR /RECORDER
LAV-1 PIT RECEPT.	0.25	15A/1P	13	●			14	20A/1P	0.25	CHEMICAL ROOM EXHAUST FAN HF2
LRV-2 PIT RECEPT.	0.25	15A/1P	15		●		16	20A/1P		SPARE
LAV-2 PIT RECEPT.	0.25	15A/1P	17			●	18	20A/1P	2.50	HEATER
RECEPT. OUTSIDE, UPSTAIRS	0.25	15A/1P	19	●			20	15A/1P		SPARE
RECEPT. EMERGENCY LIGHTS	0.25	15A/1P	21		●		22	15A/1P		SPARE
EXHAUST FAN HF1	0.25	15A/1P	23			●	24	15A/1P		SPARE
TVSS	0.60	30A/3P	25	●			26	30A/2P	1.70	HEATER
	0.60		27		●		28		1.70	
	0.60		29			●	30	15A/1P	0.25	PACL SYSTEM
SPACE		15A/1P	31	●			32	15A/1P	0.50	LCP-R800 CONTROL PANEL
SPACE		15A/1P	33		●		34	15A/1P		SPARE
SPACE		15A/1P	35			●	36	15A/1P		SPARE
SPACE		15A/1P	37	●			38	15A/1P		SPARE
SPACE		15A/1P	39		●		40	15A/1P		SPARE
SPACE		15A/1P	41			●	42	15A/1P		SPARE
Connected Load per phase(kw):				7.9	4.9	5.2				
Total Load(KW):										18.0
Total Current (A):										49.8

NOTES:
1. PROVIDE TYPE WRITTEN PANEL DIRECTORY.
2. BALANCE LOADS IN EACH PHASE.
3. PROVIDE PROTECTION CIRCUIT BREAKER LOCK.

LOAD TYPES	TOTAL CONNECTED LOAD (KW)	DEMAND %	DEMAND LOAD (KW)
LIGHTING			
COMMUNICATIONS			
ELECTRIC HEAT			
MECHANICAL			
MISCELLANEOUS			
TOTAL DEMAND LOAD			0 KW 0 Amp

Panel Board: MODIFIED PANEL R741										Rating: 120/208V/3Ø/4Wire 400A
Item	Load(KW)	Breaker	CCT	A	B	C	CCT	Breaker	Load(KW)	Item
LIGHTS: UPSTAIRS	0.80	15A/1P	1	●			2	15A/1P	0.25	RECEPT. DOWNSTAIRS
LIGHTS: OUTSIDE	0.80	15A/1P	3		●		4	15A/1P	0.25	RECEPT. DOWNSTAIRS
LIGHTS: MAIN FLOOR	0.80	15A/1P	5			●	6	20A/1P		SPARE
LIGHTS: DOWNSTAIRS	0.80	15A/1P	7	●			8	15A/1P	2.50	WETWELL HEATER
LIGHTS: DOWNSTAIRS	0.80	15A/1P	9		●		10	15A/1P	0.25	SUMP PUMP VALVE HOUSE
LRV-1 PIT RECEPT.	0.25	15A/1P	11			●	12	15A/1P	0.25	COMPRESSOR /RECORDER
LAV-1 PIT RECEPT.	0.25	15A/1P	13	●			14	20A/1P	0.25	CHEMICAL ROOM EXHAUST FAN HF2
LRV-2 PIT RECEPT.	0.25	15A/1P	15		●		16	20A/1P		SPARE
LAV-2 PIT RECEPT.	0.25	15A/1P	17			●	18	20A/1P	2.50	HEATER
RECEPT. OUTSIDE, UPSTAIRS	0.25	15A/1P	19	●			20	**15A/1P**	**0.34**	**NEW EXHAUST FAN EF-R601 (3-#12 AWG RW90 IN 21mm C)**
RECEPT. EMERGENCY LIGHTS	0.25	15A/1P	21		●		22	**15A/1P**	**0.17**	**NEW EXHAUST FAN EF-R611 (3-#12 AWG RW90 IN 21mm C)**
EXHAUST FAN HF1	0.25	15A/1P	23			●	24	15A/1P		SPARE
TVSS	0.60	30A	25	●			26	30A/1P	1.70	HEATER
	0.60		27		●		28		1.70	
	0.60		29			●	30	15A/1P	0.25	PACL SYSTEM
SPACE		15A/1P	31	●			32	15A/1P	0.50	LCP-R800 CONTROL PANEL
SPACE		15A/1P	33		●		34	15A/1P		SPARE
SPACE		15A/1P	35			●	36	15A/1P		SPARE
SPACE		15A/1P	37	●			38	15A/1P		SPARE
SPACE		15A/1P	39		●		40	15A/1P		SPARE
SPACE		15A/1P	41			●	42	15A/1P		SPARE
Connected Load per phase(kw):				8.2	5.1	5.2				
Total Load(KW):										18.5
Total Current (A):										51.2

NOTES:
1. PROVIDE TYPE WRITTEN PANEL DIRECTORY.
2. BALANCE LOADS IN EACH PHASE.
3. PROVIDE PROTECTION CIRCUIT BREAKER LOCK.

LOAD TYPES	TOTAL CONNECTED LOAD (KW)	DEMAND %	DEMAND LOAD (KW)
LIGHTING			
COMMUNICATIONS			
ELECTRIC HEAT			
MECHANICAL			
MISCELLANEOUS			
TOTAL DEMAND LOAD			0 KW 0 Amp

NO.	REVISIONS	DATE (YYYY/MM/DD)	BY
1	RE-ISSUED FOR CONSTRUCTION	25-08-27	H.M.
0	ISSUED FOR CONSTRUCTION	25-06-27	H.M.

Alliance ENGINEERING SERVICES INC

DESIGNED BY S.N. | CHECKED BY H.M.
DRAWN BY S.N. | APPROVED BY H.M.
SCALE: HORIZONTAL AS NOTED VERTICAL | RELEASED FOR CONSTRUCTION 2025/08/27 (YYYY/MM/DD)
DATE | DATE
PLOT DATE:

ENGINEER'S SEAL: PROVINCE OF MANITOBA — H.A. MASROOR — Member 31335 — 2025-08-28 — REGISTERED PROFESSIONAL ENGINEER

CONSULTANT DRAWING NUMBER E3.1

BID OPP: 808-2025
CONTRACT NUMBER: #

Winnipeg

THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
ENGINEERING SERVICES DIVISION

MACLEAN RESERVOIR VALVE HOUSE
VENTILATION UPGRADE
PANEL SCHEDULES - PANEL R741

CITY FILE NUMBER W-938
SHEET 4 OF 7
CITY DRAWING NUMBER 1-0630R-E00010-001

FILE PATH:
FILE NAME: