PANELBOARD: M202

LOCATION: MECH. MEZZ. 1M:02
MOUNTING: SURFACE NEMA1
MAIN DEVICE: 400 A MLO
BUS AMPS: 400 AMPS

VOLTAGE: 347/600 V. 3 ø 4 W.
A.I.C. RATING: 18,000 AMPS SYMMETRICAL
SPECIAL:

LOAD DESCRIPTION	BKR	P	CKT	A		B		C		CKT	P	BKR	LOAD DESCRIPTION
CORRIDOR 1:106L	15 A	2	M202-1	4.0	3.1					M202-2	3	15 A	AHU-8SA AIR HANDLING UNIT SUPPLY AIR
			M202-3			4.0	3.1			M202-4			
AHU-9SA AIR HANDLING UNIT SUPPLY AIR	20 A	3	M202-5					3.8	3.1	M202-6	3	15 A	AHU-9RA AIR HANDLING UNIT RETURN AIR
			M202-7	3.8	2.1					M202-8			
			M202-9			3.8	2.1			M202-10			
AHU-10RA AIR HANDLING UNIT RETURN AIR	15 A	3	M202-11					0.9	2.1	M202-12	3	15 A	AHU-10SA AIR HANDLING UNIT SUPPLY AIR
			M202-13	0.9	1.4					M202-14			
			M202-15			0.9	1.4			M202-16			
AHU-7SA AIR HANDLING UNIT SUPPLY AIR	15 A	3	M202-17					3.1	1.4	M202-18	3	35 A	MUA-4 MAKEUP AIR UNIT
			M202-19	3.1	10.7					M202-20			
			M202-21			3.1	10.7			M202-22			
AIR-1 AIR COMPRESSOR MECH. MEZZ. 1M:02	40 A	3	M202-23					5.9	10.7	M202-24			
			M202-25	5.9						M202-26			
			M202-27			5.9				M202-28			
EF-22 EXHAUST FAN	15 A	3	M202-29					0.3		M202-30			
			M202-31	0.3						M202-32			
			M202-33			0.3				M202-34			
			M202-35							M202-36			
			M202-37							M202-38			
			M202-39							M202-40			
			M202-41							M202-42			
			M202-43							M202-44			
			M202-45							M202-46			
			M202-47							M202-48			
			M202-49							M202-50			
			M202-51							M202-52			
			M202-53							M202-54			
			M202-55							M202-56			
			M202-57							M202-58			
			M202-59							M202-60			
			M202-61							M202-62			
			M202-63							M202-64			
			M202-65							M202-66			
			M202-67							M202-68			
			M202-69							M202-70			
			M202-71							M202-72			
			M202-73							M202-74			
			M202-75				0.0			M202-76	1	15 A	SPARE
SPARE	15 A	1	M202-77					0.0	0.0	M202-78	1	15 A	SPARE
SPARE	15 A	3	M202-79	0.0	0.0					M202-80	3	15 A	SPARE
			M202-81			0.0	0.0			M202-82			
			M202-83					0.0	0.0	M202-84			
			TOTAL LOAD:	35 kVA		35 kVA		31 kVA					
			TOTAL AMPS:	103 A		103 A		90 A					

LOAD CLASSIFICATION	CONNECTED	DEMAND	ESTIMATED	PANEL TOTALS	
MTR	94152 VA	75.00%	70614 VA		
HEAT	8000 VA	0.01%	1 VA	**CONNECTED LOAD:**	101411 VA
				ESTIMATED DEMAND:	70614 VA
				CONNECTED CURRENT:	98 A
				EST. DEMAND CURRENT:	68 A

NOTES:

PANELBOARD: M204

LOCATION: MECH. MEZZ. 1M:02
MOUNTING: SURFACE NEMA1
MAIN DEVICE: 400 A MLO
BUS AMPS: 400 AMPS

VOLTAGE: 347/600 V. 3 ø 4 W.
A.I.C. RATING: 18,000 AMPS SYMMETRICAL
SPECIAL:

LOAD DESCRIPTION	BKR	P	CKT	A		B		C		CKT	P	BKR	LOAD DESCRIPTION
EXTERIOR STORAGE 1:102	15 A	1	M204-1	2.0	1.4					M204-2	3	15 A	EF-9 EXHAUST FAN
ERV-3 ENERGY RECOVERY VENTILATOR	15 A	3	M204-3			1.7	1.4			M204-4			
			M204-5					1.7	1.4	M204-6			
			M204-7	1.7	5.9					M204-8			
MUA-5 MAKEUP AIR UNIT	20 A	3	M204-9			5.9	5.9			M204-10	3	20 A	MUA-1 MAKEUP AIR UNIT
			M204-11					5.9	5.9	M204-12			
			M204-13	5.9	8.3					M204-14			
MUA-2 MAKEUP AIR UNIT	25 A	3	M204-15			8.3	8.3			M204-16	3	25 A	MUA-3 MAKEUP AIR UNIT
			M204-17					8.3	8.3	M204-18			
			M204-19	8.3	14.9					M204-20	3	50 A	MUA-7 MAKEUP AIR UNIT
MUA-8 MAKEUP AIR UNIT	15 A	3	M204-21			4.5	14.9			M204-22			
			M204-23					4.5	14.9	M204-24			
			M204-25	4.5						M204-26			
			M204-27							M204-28			
			M204-29							M204-30			
			M204-31							M204-32			
			M204-33							M204-34			
			M204-35							M204-36			
			M204-37							M204-38			
			M204-39							M204-40			
			M204-41							M204-42			
			M204-43							M204-44			
			M204-45							M204-46			
			M204-47							M204-48			
			M204-49							M204-50			
			M204-51							M204-52			
			M204-53							M204-54			
			M204-55							M204-56			
			M204-57							M204-58			
			M204-59							M204-60			
			M204-61							M204-62			
			M204-63							M204-64			
			M204-65							M204-66			
			M204-67							M204-68			
			M204-69							M204-70			
			M204-71							M204-72			
			M204-73							M204-74			
			M204-75				0.0			M204-76	1	15 A	SPARE
SPARE	15 A	1	M204-77					0.0	0.0	M204-78	1	15 A	SPARE
SPARE	15 A	3	M204-79	0.0	0.0					M204-80	3	15 A	SPARE
			M204-81			0.0	0.0			M204-82			
			M204-83					0.0	0.0	M204-84			
			TOTAL LOAD:	53 kVA		51 kVA		51 kVA					
			TOTAL AMPS:	152 A		147 A		147 A					

LOAD CLASSIFICATION	CONNECTED	DEMAND	ESTIMATED	PANEL TOTALS	
MTR	152658 VA	75.00%	114494 VA		
HEAT	2000 VA	0.01%	0 VA	**CONNECTED LOAD:**	154461 VA
				ESTIMATED DEMAND:	114494 VA
				CONNECTED CURRENT:	149 A
				EST. DEMAND CURRENT:	110 A

NOTES:

PANELBOARD: IL2B

LOCATION: MECH. MEZZ. 1M:02
MOUNTING: SURFACE NEMA1
MAIN DEVICE: 100 A MLO
BUS AMPS: 100 AMPS

VOLTAGE: 120/208 V. 3 ø 4 W.
A.I.C. RATING: 10,000 AMPS SYMMETRICAL
SPECIAL:

LOAD DESCRIPTION	BKR	P	CKT	A		B		C		CKT	P	BKR	LOAD DESCRIPTION
LITES CONST. & WOOD...	15 A	1	IL2B-1	0.7	0.8					IL2B-2	1	15 A	LITES CONST. & WOOD...
LITES STORAGE ROOM...	15 A	1	IL2B-3			0.3	1.2			IL2B-4	1	15 A	LITES MACHINING &...
LITES MACHINING &...	15 A	1	IL2B-5					1.2	1.2	IL2B-6	1	15 A	LITES RMS 1:103
LITES RMS 1:106E, 1:106...	15 A	1	IL2B-7	1.6	1.2					IL2B-8	1	15 A	LITES RMS 1:107, 1:107A,...
INV1J MECH. MEZZ. 1M:02	15 A	1	IL2B-9			0.0	0.0			IL2B-10	1	15 A	INV1H MECH. MEZZ. 1M:02
INV1G MECH. MEZZ. 1M:02	15 A	1	IL2B-11					0.0	1.0	IL2B-12	1	15 A	INV0B MECH. MEZZ. 1M:02
INV2G	15 A	1	IL2B-13	0.6	0.0					IL2B-14	1	15 A	LITES CRAWLSPACE
LITES RMS 1:100A, 1:103...	15 A	1	IL2B-15			0.6	1.2			IL2B-16	1	15 A	LITES RMS 1:106L, 1:106F...
LITES RMS 1:106F, 1:106L...	15 A	1	IL2B-17					0.1	0.2	IL2B-18	1	15 A	LITES STORAGE ROOM...
LITES RMS 1:090	15 A	1	IL2B-19	0.9						IL2B-20			
			IL2B-21							IL2B-22			
			IL2B-23							IL2B-24			
			IL2B-25							IL2B-26			
			IL2B-27							IL2B-28			
			IL2B-29							IL2B-30			
			IL2B-31							IL2B-32			
			IL2B-33							IL2B-34			
			IL2B-35							IL2B-36			
SPARE	15 A	1	IL2B-37	0.0						IL2B-38			
SPARE	15 A	1	IL2B-39			0.0	0.0			IL2B-40	1	20 A	SPARE
SPARE	15 A	1	IL2B-41					0.0	0.0	IL2B-42	1	20 A	SPARE
			TOTAL LOAD:	8 kVA		3 kVA		4 kVA					
			TOTAL AMPS:	65 A		27 A		31 A					

LOAD CLASSIFICATION	CONNECTED	DEMAND	ESTIMATED	PANEL TOTALS	
LITES	14588 VA	100.00%	14588 VA		
				CONNECTED LOAD:	14588 VA
				ESTIMATED DEMAND:	14588 VA
				CONNECTED CURRENT:	40 A
				EST. DEMAND CURRENT:	40 A

NOTES:

PANELBOARD: CP2B

LOCATION: MECH. MEZZ. 1M:02
MOUNTING: SURFACE NEMA1
MAIN DEVICE: 225 A MLO
BUS AMPS: 225 AMPS

VOLTAGE: 120/208 V. 3 ø 4 W.
A.I.C. RATING: 10,000 AMPS SYMMETRICAL
SPECIAL:

LOAD DESCRIPTION	BKR	P	CKT	A		B		C		CKT	P	BKR	LOAD DESCRIPTION
RCPT DESIGN LAB 1:101	15 A	1	CP2B-1	0.5	0.5					CP2B-2	1	15 A	RCPT DESIGN LAB 1:101
RCPT DESIGN LAB 1:101	15 A	1	CP2B-3			0.5	0.5			CP2B-4	1	15 A	RCPT DESIGN LAB 1:101
FB2 CAST IN PLACE MUL...	15 A	1	CP2B-5					0.4	0.4	CP2B-6	1	15 A	FB2 CAST IN PLACE MUL...
FB2 CAST IN PLACE MUL...	15 A	1	CP2B-7	0.4	0.5					CP2B-8	1	15 A	RCPT DESIGN LAB 1:101
RCPT DESIGN LAB 1:101	15 A	1	CP2B-9			0.5	0.5			CP2B-10	1	15 A	RCPT DESIGN LAB 1:101
RCPT DESIGN LAB 1:101	15 A	1	CP2B-11					0.5	0.4	CP2B-12	1	15 A	FB2 CAST IN PLACE MUL...
FB2 CAST IN PLACE MUL...	15 A	1	CP2B-13	0.4	0.2					CP2B-14	1	15 A	RCPT PRINT ROOM 1:100A
FB2 CAST IN PLACE MUL...	15 A	1	CP2B-15			0.4	1.2			CP2B-16	2	15 A	3D PRINTER
LASER ENGRAVER	30 A	2	CP2B-17					2.3	1.2	CP2B-18			
			CP2B-19	2.3	2.3					CP2B-20	2	30 A	LASER ENGRAVER
RCPT DESIGN LAB 1:101	15 A	1	CP2B-21			0.4	2.3			CP2B-22			
RCPT DESIGN LAB 1:101	15 A	1	CP2B-23					0.7		CP2B-24			
			CP2B-25							CP2B-26			
			CP2B-27							CP2B-28			
			CP2B-29							CP2B-30			
			CP2B-31							CP2B-32			
			CP2B-33							CP2B-34			
			CP2B-35							CP2B-36			
SPARE	15 A	1	CP2B-37	0.0						CP2B-38			
SPARE	15 A	1	CP2B-39			0.0	0.0			CP2B-40	1	20 A	SPARE
SPARE	15 A	1	CP2B-41					0.0	0.0	CP2B-42	1	20 A	SPARE
			TOTAL LOAD:	7 kVA		6 kVA		6 kVA					
			TOTAL AMPS:	59 A		52 A		48 A					

LOAD CLASSIFICATION	CONNECTED	DEMAND	ESTIMATED	PANEL TOTALS	
RCPT	7320 VA	50.00%	3660 VA		
CONST	11648 VA	65.00%	7571 VA	**CONNECTED LOAD:**	18968 VA
				ESTIMATED DEMAND:	11231 VA
				CONNECTED CURRENT:	53 A
				EST. DEMAND CURRENT:	31 A

NOTES:

ENGINEERS GEOSCIENTISTS MANITOBA
Certificate of Authorization
Epp Siepman Engineering Inc.
No. 4035

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epp siepman engineering
400 - 136 Market Avenue
Winnipeg, MB R3B 0P4
T 204 453 1080

LM esp
LM Architectural Group | Environmental Space Planning
500-136 Market Avenue Winnipeg, Manitoba Canada R3B 0P4
t: 204.942.0681 lm-esp.ca

No.	REVISION/DESCRIPTION	BY	DATE
0	ISSUED FOR TENDER	JS/MP	24-04-01

SEAL

PROVINCE OF MANITOBA — M. G. PENNER — Member 23792 — 2024-04-01 — REGISTERED PROFESSIONAL ENGINEER

EW DRAWN	MP/KG CHECKED	KG DESIGNED	MP/KG APPROVED
DATE 2024-04-01	USER APPROVAL		

Winnipeg
THE CITY OF WINNIPEG
ASSETS & PROJECT MANAGEMENT DEPARTMENT
MUNICIPAL ACCOMMODATIONS DIVISION
3-65 GARRY STREET, R3C 4K4

PROJECT
PEMBINA TRAILS COLLEGIATE
VOCATIONAL WING
TENDER NO. 954-2023B
50 FRONTIER TRAIL, WINNIPEG, MANITOBA, R3Y 2H1

SHEET TITLE
Electrical Panel Schedules - Part 1

SCALE	PROJECT No:	SHEET No:
	2020-127	E6.10

DRAWING SHEET SIZE: A1 (594x841) PLOT 1:1
ESE 24049