

PANEL ID: LP-A		AMPS: 150	VOLTS: 120/208V	PHASE: 3 P	WIRE: 4	SURF. MOUNT <input type="checkbox"/>	TOP FED <input type="checkbox"/>								
DESCRIPTION: 120/208V DISTRIBUTION PANELBOARD		LOCATION: PUMP HOUSE MEZZANINE													
MFG / MODEL: -		INTERRUPTING RATING: 10 KA													
MAIN BREAKER: NONE		INST. SETTINGS: N/A													
CCT.	DESCRIPTION	NOTE	WIRE (AWG)	BRKR AMPS	LOAD (VA)	A	B	C	LOAD (VA)	BRKR AMPS	WIRE (AWG)	NOTE	DESCRIPTION	CCT.	
1	LITES HI BAY		12	15	30				15	12	1		LITES HI BAY	2	
3	LITES HI BAY		12	15					15	12	1		LITES HI BAY	4	
5	LITES LOW BAY		12	15					15	12	1		LITES ELECTRICAL ROOM	6	
7	LITES LOW BAY		12	15					15	12	1		LITES MECH. RM. & CORRIDOR	8	
9	LITES LOW BAY		12	15					15	12	1		LITES WASHROOM/CHLORINE ANALYZER ROOM	10	
11	LITES LOW BAY		12	15					15				LITES CANOPY - ENTRANCE	12	
13	LITES GALLERY N-S		12	15					15	12	1		LITES FILTER ROOM/COIL ROOM/FAN ROOM	14	
15	PLUGS PUMP ROOM			15					15				LITES ROOF	16	
17	HEATER ELECTRICAL ROOM			20					15				LITES ROOF & OUTSIDE WALL	18	
19	HEATER ELECTRICAL ROOM			2P					20				SPARE	20	
21	HEATER ELECTRICAL ROOM			2P					2P				SPARE	22	
23	HEATER ELECTRICAL ROOM			2P					15				CEILING FANS	24	
25	HEATER FOYER			15					15	12	1		LIGHTS - LOWER LEVEL PLATFORM	26	
27	OUTSIDE LITING CONTACTOR			15					30				HEATER JANITOR'S ROOM	28	
29	UH-2			15					30				HEATER JANITOR'S ROOM	30	
31	UH-2			2P					20				HEATER CORRIDOR	32	
33	HEATER ELECTRICAL ROOM			20					15				FAN ELECTRICAL ROOM	34	
35	HEATER ELECTRICAL ROOM			2P					15				AIR DRYER	36	
37	HOT WATER TANK			15					15				PLUGS MAIN FLOOR	38	
39	PLUGS LOWER LEVEL			2P					15	2P			AIR COND.	40	
41	PLUGS LOWER LEVEL			15					2P				AIR COND.	42	
TOTAL CONNECTED LOAD:		KVA	PHASE A: KVA	A	NOTE LEGEND:		AFCI ARC FAULT CIRCUIT INTERRUPTOR GFCI GROUND FAULT CIRCUIT INTERRUPTOR LKON LOCKED ON BREAKER LKOR RED LOCKED ON BREAKER								
PHASE B: KVA		A	PHASE C: KVA		A										
NOTES: 1. PROVIDE NEW LIGHTING AND CABLING.															

PANEL ID: PNL-M721		AMPS: 225	VOLTS: 120/208V	PHASE: 3 P	WIRE: 4	SURF. MOUNT <input type="checkbox"/>	TOP FED <input type="checkbox"/>								
DESCRIPTION: 120/208V DISTRIBUTION PANELBOARD		LOCATION: WALK WAY LEVEL													
MFG / MODEL: SQUARE D		INTERRUPTING RATING: 10 KA													
MAIN BREAKER: 150A		INST. SETTINGS: N/A													
CCT.	DESCRIPTION	NOTE	WIRE (AWG)	BRKR AMPS	LOAD (VA)	A	B	C	LOAD (VA)	BRKR AMPS	WIRE (AWG)	NOTE	DESCRIPTION	CCT.	
1	SPARE			15					15				SPARE	2	
3	SPARE			15					15				SPARE	4	
5	SPARE			15					15				SPARE	6	
7	SPARE			15					15				SPARE	8	
9	SPARE			15					15				SPARE	10	
11	SPARE			15					15				SPARE	12	
13	SPARE			15					15				SPARE	14	
15	SPARE			15					15				SPARE	16	
17	SPARE			15					15				SPARE	18	
19	SPARE			15					15				SPARE	20	
21	SPARE			15					15				SPARE	22	
23	SPARE			15					15				SPARE	24	
25	SPARE			15					15				SPARE	26	
27	SPARE			15					15				SPARE	28	
29	SPARE			15					15				SPARE	30	
31	SPACE												SPACE	32	
33	SPACE												SPACE	34	
35	SPACE												SPACE	36	
37	SPACE												SPACE	38	
39	SPACE												SPACE	40	
41	SPACE												SPACE	42	
TOTAL CONNECTED LOAD:		KVA	PHASE A: KVA	A	NOTE LEGEND:		AFCI ARC FAULT CIRCUIT INTERRUPTOR GFCI GROUND FAULT CIRCUIT INTERRUPTOR LKON LOCKED ON BREAKER LKOR RED LOCKED ON BREAKER								
PHASE B: KVA		A	PHASE C: KVA		A										
NOTES:															

PANEL ID: LP-B		AMPS: 150	VOLTS: 120/208V	PHASE: 3 P	WIRE: 4	SURF. MOUNT <input type="checkbox"/>	TOP FED <input type="checkbox"/>								
DESCRIPTION: 120/208V DISTRIBUTION PANELBOARD		LOCATION: MEZZANINE LEVEL													
MFG / MODEL: -		INTERRUPTING RATING: 10 KA													
MAIN BREAKER: NONE		INST. SETTINGS: N/A													
CCT.	DESCRIPTION	NOTE	WIRE (AWG)	BRKR AMPS	LOAD (VA)	A	B	C	LOAD (VA)	BRKR AMPS	WIRE (AWG)	NOTE	DESCRIPTION	CCT.	
1	LITES HI BAY		12	15	30				15	12	1		LITES LOW BAY	2	
3	LITES HI BAY		12	15					15	12	1		LITES LOW BAY	4	
5	LITES CONTROL ROOM		12	15					15	12	1		LITES FOYER	6	
7	PRELUBE PUMP #1			15					30				GAS ENGINE #3 HEATER	8	
9	PRELUBE PUMP #5			15					2P					10	
11	GAS ENGINE #1 HEATER			30					15				NEW GATE	12	
13	GAS ENGINE #1 HEATER			2P					15				SOUTH WALL RECT PUMP F1	14	
15	GAS ENGINE #5 HEATER			30					15				CONTROL ROOM HEATER	16	
17	GAS ENGINE #5 HEATER			2P					15				MSA GAS ANALYZER	18	
19	AIR COMPRESSOR CTRL CCT			15					15				WASHROOM HEATER	20	
21	SECURITY ALARM PANEL			15					15				H&V CONTROLS	22	
23	GAS ENGINE #3, BATTERY CHARGER			15					15	12	1		GALLERY LITES	24	
25	SPARE			15					30				SPARE (3)	26	
27	CHEMICAL TREATMENT			15					2P					28	
29	COOLING UNITS MCC ROOM			15					15				RECEPT ELECTRICAL ROOM	30	
TOTAL CONNECTED LOAD:		0.00 KVA	PHASE A: 0.00 KVA	0.00 A	NOTE LEGEND:		AFCI ARC FAULT CIRCUIT INTERRUPTOR GFCI GROUND FAULT CIRCUIT INTERRUPTOR LKON LOCKED ON BREAKER LKOR RED LOCKED ON BREAKER								
PHASE B: 0.00 KVA		0.00 A	PHASE C: 0.00 KVA		0.00 A										
NOTES: 1. PROVIDE NEW LIGHTING AND CABLING.															

PANEL ID: PNL-M732E		AMPS: 225	VOLTS: 120/208V	PHASE: 3 P	WIRE: 4	SURF. MOUNT <input checked="" type="checkbox"/>	TOP FED <input type="checkbox"/>								
DESCRIPTION: 120/208V DISTRIBUTION PANELBOARD		LOCATION: ELECTRICAL ROOM													
MFG / MODEL: SQUARE D		INTERRUPTING RATING: 10 KA													
MAIN BREAKER: 50A		INST. SETTINGS: N/A													
CCT.	DESCRIPTION	NOTE	WIRE (AWG)	BRKR AMPS	LOAD (VA)	A	B	C	LOAD (VA)	BRKR AMPS	WIRE (AWG)	NOTE	DESCRIPTION	CCT.	
1	FV-M6145-1, 2, 3, 4 AIR INTAKE DAMPER		12	15	264				66	15	12		FV-M6147 AIR RELIEF DAMPER	2	
3	FV-M6146-1, 2 AIR RETURN DAMPER		12	15	132				66	15	12		FV-M6148 AIR RELIEF DAMPER	4	
5	XV-M6144 AIR INTAKE DAMPER		12	15	66				300	15	12		HVAC CONTROL PANEL CP-M626	6	
7	LIT-M5411, SUMP PUMP LEVEL TRANSMITTER		12	15	36				53	15	12		EMERGENCY LIGHTING MAIN FLOOR	8	
9	SPARE			15					37	15	12		EMERGENCY LIGHTING MAIN FLOOR	10	
11	SPARE			15					64	15	12		EMERGENCY LIGHTING LOWER LEVEL	12	
13	SPARE			15					15				SPARE	14	
15	SPARE			15					15				SPARE	16	
17	SPARE			15					15				SPARE	18	
19	SPARE			15					15				SPARE	20	
21	SPARE			15					15				SPARE	22	
23	SPARE			15					15				SPARE	24	
25	SPARE			15					15				SPARE	26	
27	SPARE			15					15				SPARE	28	
29	SPARE			15					15				SPARE	30	
31	SPACE												SPACE	32	
33	SPACE												SPACE	34	
35	SPACE												SPACE	36	
37	SPACE												SPACE	38	
39	SPACE												SPACE	40	
41	SPACE												SPACE	42	
TOTAL CONNECTED LOAD:		KVA	PHASE A: KVA	A	NOTE LEGEND:		AFCI ARC FAULT CIRCUIT INTERRUPTOR GFCI GROUND FAULT CIRCUIT INTERRUPTOR LKON LOCKED ON BREAKER LKOR RED LOCKED ON BREAKER								
PHASE B: KVA		A	PHASE C: KVA		A										
NOTES:															

GENERAL NOTES:

- REFER TO ASBESTOS REPORTS IN APPENDIX B. ASBESTOS IS PRESENT IN AND/OR PRESUMED TO BE PRESENT IN (BUT NOT LIMITED TO) THE FOLLOWING:

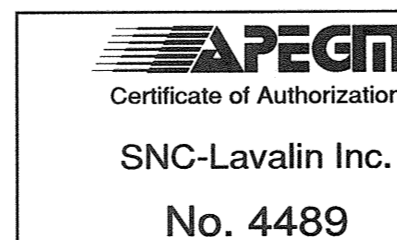
- PIPING : RAIN WATER LEADER (SWEAT WRAP PIPE INSULATION & PARGING OVER FIBREGLASS)  
HEATING WATER SUPPLY/RETURN (PARGING OVER FIBREGLASS)
- FLOOR : PLASTER (CERAMIC TILES)  
ADHESIVE/MASTIC (CERAMIC TILES)
- WALL : VERMICULITE INSULATION (MASONRY)  
PLASTER (PREFORMED BLOCK & CERAMIC TILES)  
ADHESIVE/MASTIC (CERAMIC TILES)

CONSTRUCTION NOTES:

- REPLACE PANELBOARD INTERIOR. CONFIRM ALL LOADS AND UPDATE PANEL SCHEDULE ACCORDINGLY.
- PROVIDE NEW PANELBOARDS, PNL-M721 AND PNL-M732E.
- MARK BREAKER AS SPARE FOR DEMOLISHED PANEL PNL-C21 (WAS LP-D).

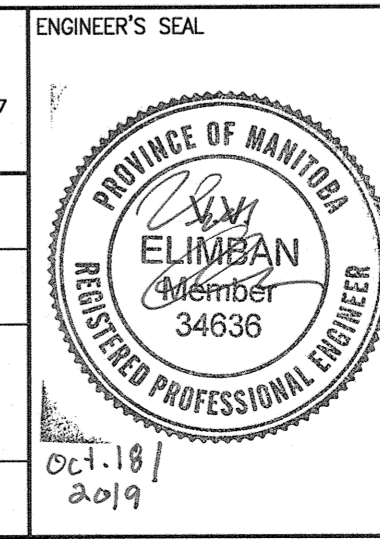
1-0640M-E0040	ELECTRICAL EQUIPMENT PLAN, MEZZANINE LEVEL
1-0640M-E0039	ELECTRICAL EQUIPMENT PLAN, ELECTRICAL & CONTROL ROOMS
1-0640M-E0036	ELECTRICAL SINGLE LINE DIAGRAM, PUMPHOUSE MCC-M730E
1-0640M-E0034	ELECTRICAL SINGLE LINE DIAGRAM, PUMPHOUSE MCC-M720
1-0640M-E0032	ELECTRICAL SINGLE LINE DIAGRAM, PUMPHOUSE MCC-M710

DRAWING NUMBER REFERENCE DRAWINGS



00	ISSUED FOR TENDER AND CONSTRUCTION	2019/10/18	VE	KS
NO.	REVISIONS	DATE	DESIGN	CHECK

SNC-LAVALIN INC. 148 Nature Park Way Winnipeg, MB, Canada R3P 0X7 204-786-8080	
DESIGNED BY: V. ELIMBAN	CHECKED BY: K. SAPIAK
DRAWN BY: J. GRAGASIN	APPROVED BY: D. BECKER
SCALE: NTS	ISSUED FOR CONSTRUCTION BY: A. WEISS
DATE: 2019/03/28	DATE: 2019/10/18
CONSULTANT NO.:	



THE CITY OF WINNIPEG  
WATER AND WASTE DEPARTMENT

MCPHILLIPS PUMPING STATION  
ELECTRICAL AND HVAC UPGRADES, MCC REPLACEMENT  
PANELBOARD SCHEDULE

CITY DRAWING NUMBER: 1-0640M-E0042  
SHEET: 001  
REV: 00  
SIZE: A1

1-0640M-E0042-001-00.dwg