

PANEL ID: PNL-M712		AMPS: 225	VOLTS: 120/240V	PHASE: 1Ø	WIRE: 3	SURF. MOUNT <input checked="" type="checkbox"/>	TOP FED <input checked="" type="checkbox"/>						
DESCRIPTION: NON-ESSENTIAL LIGHTING PANEL		LOCATION: MAIN FLOOR		INTERRUPTING RATING: 10 KA									
MFG / MODEL: SQUARE D		INST. SETTINGS: N/A		MAIN BREAKER: 125A									
CCT.	DESCRIPTION	NOTE	WIRE (AWG)	BRKR AMPS	LOAD (VA)	L1	L2	LOAD (VA)	BRKR AMPS	WIRE (AWG)	NOTE	DESCRIPTION	CCT.
1	GAS HEATER- BSMT EAST	1	15						15	12	2, 3	BASEMENT CEILING & STORAGE LIGHTS	2
3	SUMP PUMP	1, 3	12	15					15	12	2, 3	RECEPT BASMENT WEST	4
5	MAIN FLOOR CEILING LIGHTS	2	12	15					15		2	ALARM PNL NORTH RECEPT	6
7	LIGHTS IN WASHRM & SW RM	2, 3	12	15					15	12	2	RECEPT PUMP ROOM NORTH	8
9	SPARE		15						20	12	2	RECEPT PUMP ROOM SOUTH	10
11	FRESH AIR FAN (TOILET)	1, 3	30						15		1	CLOCK AND REC SOUTH WALL	12
13	HOT WATER	1, 3	15						30			AIR COMPRESSOR	14
15	NEW CONTROL PANEL	1	15						2P		1		16
17	PANEL RECEPTACLE	1	15						30				18
19	OUTSIDE SPLIT RECEPTACLE, TOP	2, 3	12	15					2P		1, 3	TOWER PANEL	20
21	OUTSIDE SPLIT RECEPTACLE, BOTTOM		12	2P					15	12	2, 3	BASEMENT PLUGS	22
23	OUTSIDE LIGHT	2, 3	12	15					15	12	2	MAIN FLOOR EMERG. LIGHTS ELB-M701	24
25	MAIN FLOOR EMERG. LIGHTS ELB-M702	2	12	15					15	12	2, 3	BASEMENT EMERG. LIGHTS ELB-M703	26
27	CONTROL ROOM LIGHT	2	12	15					15			SPARE	28
29	SPARE		15						15			SPARE	30
31	SPARE		15						15			SPARE	32
33	SPARE		15									SPACE	34
35	SPACE											SPACE	36
37	SPACE											SPACE	38
39	SPACE											SPACE	40
41	SPACE											SPACE	42
TOTAL CONNECTED LOAD:			000.0 KVA	000.0 A (AVG)	000.0 A (MAX)	LINE 1:	000.0 KVA	000.0 A	LINE 2:	000.0 KVA	000.0 A	NOTE LEGEND: AFCI ARC FAULT CIRCUIT INTERRUPTOR GFCI GROUND FAULT CIRCUIT INTERRUPTOR	
NOTES: 1. EXISTING LOAD. 2. NEW LOAD. 3. CLASS A GFCI BREAKER. 4. FEEDS SPLIT RECEPTACLE													

PANEL ID: PNL-E (EXISTING)		AMPS: 225	VOLTS: 120/240V	PHASE: 1Ø	WIRE: 3	SURF. MOUNT <input checked="" type="checkbox"/>	TOP FED <input checked="" type="checkbox"/>						
DESCRIPTION: UPS PANEL		LOCATION: MAIN FLOOR		INTERRUPTING RATING: 10 KA									
MFG / MODEL: NQOB		INST. SETTINGS: N/A		MAIN BREAKER: -									
CCT.	DESCRIPTION	NOTE	WIRE (AWG)	BRKR AMPS	LOAD (VA)	L1	L2	LOAD (VA)	BRKR AMPS	WIRE (AWG)	NOTE	DESCRIPTION	CCT.
1	MCP EQUIPMENT	1	15						15		1	P #1 EQUIPMENT	2
3	RADIO	1	15						15		1	P #1 UTILITY	4
5	MCP: UTILITY	1	15						15		1	P #2 EQUIPMENT	6
7	MCP DI/DO	1	15						15		1	P #2 UTILITY	8
9	TSA VALVE	1	15						15		1	P #3 EQUIPMENT	10
11	FIRE ALARM PANEL FACP-M922	2	12	15					15		1	P #3 UTILITY	12
13	SPACE								15		1	MCP WORK STATION	14
15	SPACE											SPACE	16
17	SPACE											SPACE	18
19	SPACE											SPACE	20
21	SPACE											SPACE	22
23	SPACE											SPACE	24
25	SPACE											SPACE	26
27	SPACE											SPACE	28
29	SPACE											SPACE	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:			000.0 KVA	000.0 A (AVG)	000.0 A (MAX)	LINE 1:	000.0 KVA	000.0 A	LINE 2:	000.0 KVA	000.0 A	NOTE LEGEND: AFCI ARC FAULT CIRCUIT INTERRUPTOR GFCI GROUND FAULT CIRCUIT INTERRUPTOR	
NOTES: 1. EXISTING LOAD. 2. NEW LOAD. 3. CLASS A GFCI BREAKER.													

### LUMINAIRE SCHEDULE

TYPE	MANUFACTURER	MODEL	QTY	TYPE	VOLTS	LOAD VA	MOUNTING	NOTE
A	PHILIPS	V3W470L840-UNV	15	LED, 50W	120	50	CS	1
B	PHILIPS	LPW32-50-NW-G3-4-120-PCB	4	LED, 50W	120	50	W	1
C	PHILIPS	V3W243L840-UNV	4	LED, 33W	120	33	CS	1
D	PHILIPS	V3W470L840-UNV	1	LED, 50W	120	50	CH	1
E	PHILIPS	V3W243L840-UNV	1	LED, 33W	120	33	W	1
F	PHILIPS	V3W451L840-UNV	15	LED, 35W	120	35	CS	1

MOUNTING LEGEND: CH CHAIN HUNG, CS CEILING SURFACE, W WALL, AN AS NOTED ON DRAWINGS

NOTES:  
1. USE 10 AWG RW90 IN 16mm CONDUIT.

### EMERGENCY LIGHTING/EXIT SIGN SCHEDULE

ID	DESCRIPTION	MANUFACTURER	MODEL	INPUT		SOURCE CIRCUIT	OUTPUT VOLTS	INTERNAL LAMPS		REMOTE FIXTURES		TOTAL LOAD (W)	DESIGN TIME	NOTE
				VOLTS	VA			QTY	TYPE	QTY	TOTAL REMOTE LOAD (W)			
ELB-M701	EXTRUDED ALUMINIUM PICTOGRAM EXIT COMBO UNIT	READY-LITE	RAC-1W12802LD7	120	30	M712-24	12	2	LED, 4W	4	32	40	>1.0 HR	1,2
ELB-M702	EXTRUDED ALUMINIUM PICTOGRAM EXIT COMBO UNIT	READY-LITE	RAC-1W12802LD7	120	30	M712-25	12	2	LED, 4W	4	32	40	>1.0 HR	1,2
ELB-M703	EXTRUDED ALUMINIUM PICTOGRAM EXIT COMBO UNIT	READY-LITE	RAC-1W12802LD7	120	30	M712-26	12	2	LED, 4W	5	40	48	1.0 HR	1,2

NOTES:  
1. BATTERY RATED FOR 30 MIN. @ 80W.  
2. REMOTE FIXTURE: READY-LITE, PART NO: RL1500-LD7

#### GENERAL NOTES:

- WIRE SIZES SHOWN DO NOT ACCOUNT FOR CABLE DE-RATING FACTORS (CANADIAN ELECTRICAL CODE TABLE 5C). INCREASE CABLE SIZES IN ACCORDANCE WITH CANADIAN ELECTRICAL CODE REQUIREMENTS DUE TO PROXIMITY OF CONDUIT/CABLE RUNS.
- INSTALLATION MUST COMPLY WITH THE CEC, THE NATIONAL BUILDING CODE OF CANADA, AND CITY OF WINNIPEG ELECTRICAL BYLAW.
- PROVIDE ALL NECESSARY MOUNTING ACCESSORIES FOR INSTALLATION OF NEW RUNNING MAN EXIT SIGNS.
- RECONNECT ALL EXISTING LOADS TO NEW PANEL PNL-M712. CONTRACTOR TO VERIFY EXISTING LOADS ON SITE AND MARK UP DESCRIPTION ACCORDINGLY.

#### CONSTRUCTION NOTES:

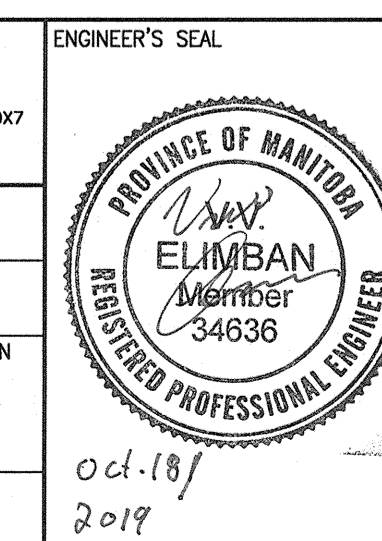
- PROVIDE 1P 15A BREAKER (RED, LOCK-ON). PROVIDE BREAKER SIMILAR TO OTHER BREAKERS IN PANEL.

1-0660M-E0015	ELECTRICAL EQUIPMENT PLAN, BASEMENT
1-0660M-E0014	ELECTRICAL EQUIPMENT PLAN, CEILING
1-0660M-E0013	ELECTRICAL EQUIPMENT PLAN, PUMP ROOM
1-0660M-E0007	ELECTRICAL SINGLE LINE DIAGRAM, MCC-M710



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

SNC-LAVALIN INC. 148 Notre Dame West Winnipeg, MB, Canada R3P 0X7 204-786-8080	
DESIGNED BY: S. BOGHOSIAN	CHECKED BY: B. CLEVEN
DRAWN BY: J. GRAGASIN	APPROVED BY: D. BECKER
SCALE: NTS	ISSUED FOR CONSTRUCTION BY: A. WEISS
DATE: 2019/01/28	DATE: 2019/10/18
CONSULTANT NO.:	



THE CITY OF WINNIPEG Winnipeg WATER AND WASTE DEPARTMENT	
TACHE BOOSTER PUMPING STATION ELECTRICAL PANEL SCHEDULES AND DETAILS	
CITY DRAWING NUMBER 1-0660M-E0009	SHEET 001
REV. 00	SIZE A1