(1)(3)

PANEL ID:	AMPS:	VOLTS:	PHASE:	WIRE:	
PNL–C711	225	120/208V	3 P	4	SURF. MOUNT [X] TOP FED [ ] FLUSH MOUNT [ ] BOT. FED [X]

DESCRIPTION:	LOCATION:
120/208V DISTRIBUTION PANELBOARD	CHLORINE BUILDING – GALLERY
MFG / MODEL: SQUARE D	INTERRUPTING RATING: 10 KA
MAIN BREAKER: N/A	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	PARKING RCPT 1		12	15	1200		1200	15	12		PARKING RCPT 4	2
3	PARKING RCPT 2		12	15	1200		1200	20	12		PARKING RCPT 5	4
5	PARKING RCPT 3		12	15	1200		1200	2P			PARKING RCPT 6	6
7	PARKING RCPT 7		12	15	1200			15			SPARE	8
9	PARKING RCPT 8		12	15	1200			15			SPARE	10
11	LIGHTING		12	15	1404			15			SPARE	12
13	LIGHTING		12	15	468		1500	20	12		CONVECTION HEATER C7	14
15	FAN – FN1, FN3		12	15	600		1500	2P				16
17	FAN FN2, CMD1, CMD2		12	15	900		600	15			RECEPTACLE	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

(4) → CCT. 1, 3, 5, 7, 9, 11, 13, 15, 17

(4) → CCT. 2, 4, 6

(4) → CCT. 14, 16, 18

TOTAL CONNECTED LOAD: 16.6 KVA

PHASE A:	5.6 kVA	46.4 A
PHASE B:	5.7 kVA	47.5 A
PHASE C:	5.3 kVA	44.2 A

NOTE LEGEND:
AFCI ARC FAULT CIRCUIT INTERRUPTOR
GFCI GROUND FAULT CIRCUIT INTERRUPTOR
LKON LOCKED ON BREAKER
LKOR RED LOCKED ON BREAKER

NOTES:

(2)(3)

PANEL ID:	AMPS:	VOLTS:	PHASE:	WIRE:	
PNL–C731E	225	120/208V	3 P	4	SURF. MOUNT [X] TOP FED [ ] FLUSH MOUNT [ ] BOT. FED [X]

DESCRIPTION:	LOCATION:
120/208V DISTRIBUTION PANELBOARD	CHLORINE BUILDING – GALLERY
MFG / MODEL: SQUARE D	INTERRUPTING RATING: 10 KA
MAIN BREAKER: N/A	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	LIGHTING, TANK AND EQUIPMENT ROOM		12	15				15			AUXILIARY ALARM PANEL, ALARM LIGHTS	2
3	CHLORINATORS		12	15				15			LEAK DETECTOR	4
5	ESSENTIAL LIGHTING, STAIRWELL & GALLERY		12	15				15			EMERGENCY LIGHTS AND EXIT SIGNS	6
7	SPARE			15				15			CHLORINE ROOM HOT WATER EYE STATION	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

(6), (4), (6) → CCT. 1, 3, 5

(4) → CCT. 2, 4

(5), (4) → CCT. 6

TOTAL CONNECTED LOAD: 0.00 KVA

PHASE A:	0.00 kVA	0.00 A
PHASE B:	0.00 kVA	0.00 A
PHASE C:	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

NOTES:

GENERAL NOTE:

1. EXISTING LOADS ARE BASED ON EXISTING PANEL SCHEDULES. CONTRACTOR TO VERIFY LOADS PRIOR TO TRANSITION TO NEW PANELBOARDS. UPDATE NEW PANEL SCHEDULE ACCORDINGLY.
2. 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 FIBERGLASS)

   WALL : VERMICULITE INSULATION (MASONRY)
   PLASTER (PREFORMED BLOCK & QUARRY TILE)

CONSTRUCTION NOTES:

(1) PROVIDE NEW PANEL PNL–C711 TO REPLACE EXISTING PANELS PNL–C10 AND PNL–C11. RE–FEED LOADS AND EXTEND WIRING/CONDUIT AS REQUIRED.

(2) PROVIDE NEW ESSENTIAL PANEL PNL–C731E TO REPLACE EXISTING PANEL PNL–C21. RE–FEED LOADS AND EXTEND WIRING/CONDUIT AS REQUIRED.

(3) IT IS NOT GUARANTEED THAT THE EXISTING PANEL SCHEDULES ARE ACCURATE. THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL LOADS OFF EACH EXISTING PANEL PRIOR TO TRANSFERRING LOADS AND PROVIDE NEW TYPEWRITTEN PANEL SCHEDULES FOR PANELS PNL–C711 AND PNL–C731E.

(4) REWIRE AND RECONNECT EXISTING EQUIPMENT TO NEW PANELBOARDS. REPLACE EXISTING CIRCUIT IDENTIFICATION ON EXISTING EQUIPMENT WITH NEW CIRCUIT NUMBERING. ENSURE EXISTING EQUIPMENT REFLECT NEW CIRCUIT NUMBERING. EXTEND WIRING AND CONDUIT TO SUIT NEW PANELBOARDS LOCATIONS. NEW CABLING SYSTEMS IN CHLORINE BUILDING NEEDS TO MEET NEMA 4X STANDARDS.

(5) CONNECT NEW LOADS, EMERGENCY LIGHTS, TO PNL–C731E ON CIRCUITS AS SHOWN.

(6) EXISTING LIGHTS ARE BEING DEMOLISHED. PROVIDE NEW CABLING AND CONDUITS TO NEW LIGNTS.

DRAWING NUMBER	REFERENCE DRAWINGS
1–0640C–E0012	ELECTRICAL – HAZARDOUS LOCATION, CHLORINE BLDG GROUND LEVEL
1–0640C–E0005	ELECTRICAL PANEL LAYOUT, MCC–C710/MCC–C720E LOCATION PLAN
1–0640C–E0003	ELECTRICAL SINGLE LINE DIAGRAM, MCC–C710/MCC–C720E
1–0640C–E0001	ELECTRICAL SINGLE LINE DIAGRAM, CHLORINE BUILDING

APEGM Certificate of Authorization
SNC-Lavalin Inc.
No. 4489

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

SNC·LAVALIN
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: V. ELIMBAN	APPROVED BY: D. BECKER
SCALE: NTS	ISSUED FOR CONSTRUCTION BY: A. WEISS
DATE: 2019/03/25	DATE: 2019/10/18
CONSULTANT NO.:	

ENGINEER'S SEAL
PROVINCE OF MANITOBA
V. V. ELIMBAN
Member
34636
REGISTERED PROFESSIONAL ENGINEER
Oct. 18/2019

Winnipeg
THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT

MCPHILLIPS PUMPING STATION
ELECTRICAL AND HVAC UPGRADES, MCC REPLACEMENT
PANELBOARD SCHEDULES
CHLORINE BUILDING
PNL–C711 AND PNL–C731E

CITY DRAWING NUMBER	SHEET	REV.	SIZE
1–0640C–E0006	001	00	A1