A1 SIZE – 594mm x 841mm

PANEL ID:	AMPS:	VOLTS:	PHASE:	WIRE:	
PNL–D721	225	208/120V	3ø	4	SURF. MOUNT ☐ TOP FED ☐ FLUSH MOUNT ☐ BOT. FED ☐

DESCRIPTION: NON–ESSENTIAL
LOCATION: ELECTRICAL ROOM A (PART OF MCC–D720)
MFG / MODEL: SQUARE D NQ
INTERRUPTING RATING: 10KA
MAIN BREAKER: 100A
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	RCPT ELEC ROOM A D–102		12	15	240		115	–	12		RCPT MECHANICAL PLATFORM D–103	2
3	XV–D4032 RDT–D403 FLUSHING WATER PIPING INLET VALVE		12	15	225		240	15	12		XV–D4152 RDT–D415 FLUSHING WATER PIPING INLET VALVE	4
5	XV–D4034 RDT–D403 FLUSHING WATER VALVE		12	15	225		225	15	12		XV–D4154 RDT–D415 FLUSHING WATER VALVE	6
7	XV–D4042 RDT–D404 FLUSHING WATER PIPING INLET VALVE		12	15	225		225	15	12		XV–D4162 RDT–D416 FLUSHING WATER PIPING INLET VALVE	8
9	XV–D4044 RDT–D404 FLUSHING WATER VALVE		12	15	225		225	15	12		XV–D4164 RDT–D416 FLUSHING WATER VALVE	10
11	SOLENOID VALVES XV–D3211, D3221, & D3231		12	15	225		225	15	12		XV–D4172 RDT–D417 FLUSHING WATER PIPING INLET VALVE	12
13	CU–D641 CONDENSING UNIT		12	30	2700		225	15	12		XV–D4174 RDT–D417 FLUSHING WATER VALVE	14
15	MECHANICAL PLATFORM D–103				2700		240	15	12		STR–D433 AUTO. STRAINER, SECONDARY PUMP ROOM RM S–101	16
17	CU–D642 CONDENSING UNIT		12	30	2700		240	15	12		STR–D434 AUTO. STRAINER, SECONDARY PUMP ROOM RM S–101	18
19	MECHANICAL PLATFORM D–103				2700		120	20	12	1	ROOFTOP RECEPTACLE	20
21	CU–D643 CONDENSING UNIT		6	30	2700		120	20	12	1	ROOFTOP RECEPTACLE	22
23	MECHANICAL PLATFORM D–103				2700		150	15	12		AHU–D610, AHU–D620 LIGHTS	24
25	ACU–D641 AIR CONDITIONING UNIT		12	15	115		120	20	12	1	ROOFTOP RECEPTACLE	26
27	ELEC. ROOM A D–102				115		400	15	10	2	FERMENTERS TRAIN 1 MIXER HEATERS	28
29	ACU–D642 AIR CONDITIONING UNIT		12	15	115		400	15	12	2	FERMENTERS TRAIN 2 MIXER HEATERS	30
31	ELEC. ROOM A D–102				115		20	15	12		XV–D6207, PRESSURIZATION UNIT INTAKE DAMPER	32
33	ACU–D643 AIR CONDITIONING UNIT		12	15	115		–	15			SPARE	34
35	ELEC. ROOM A D–102				115		–	15			SPARE	36
37	SPARE			15	–		–	15			SPARE	38
39	SPARE			15	–		–	15			SPARE	40
41	SPARE			15	–		–	15			SPARE	42

TOTAL CONNECTED LOAD: 21.3 KVA

PHASE A:	6.9 kVA	57.7 A
PHASE B:	7.3 kVA	60.9 A
PHASE C:	7.1 kVA	59.7 A

NOTE LEGEND:
AFCI ARC FAULT CIRCUIT INTERRUPTOR
GFCI GROUND FAULT CIRCUIT INTERRUPTOR

NOTES:
1. PROVIDE CLASS A TYPE GFCI BREAKER.
2. TWO HEATERS PER MIXER. PROVIDE A SINGLE FIELD MOUNTED DISCONNECT FOR EACH PAIR OF HEATERS. REFER TO EGAD–D004 FOR LOCATION.

PANEL ID:	AMPS:	VOLTS:	PHASE:	WIRE:	
PNL–D731	225	208/120V	3ø	4	SURF. MOUNT ☒ TOP FED ☒ FLUSH MOUNT ☐ BOT. FED ☐

DESCRIPTION: NON–ESSENTIAL
LOCATION: ELECTRICAL ROOM B
MFG / MODEL: SQUARE D NQ
INTERRUPTING RATING: 10KA
MAIN BREAKER: 100A
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	RCPT. ELEC. ROOM B D–105		12	15	480		360	15	12	1	RCPT HUMIDIFIER ROOM B–T01	2
3	ROOFTOP RECEPTACLE	1	12	20	120		120	15	12	1	ROOFTOP RECEPTACLE	4
5	ROOFTOP RECEPTACLE	1	12	20	120		225	15	12		XV–T1109 RECIRCULATION PUMP VALVE	6
7	CU–D651 CONDENSING UNIT		6	30	2700		225	15	12		XV–T1209 RECIRCULATION PUMP VALVE	8
9					2700		225	15	12		XV–T1406 NON POTABLE WATER FEED VALVE	10
11	CU–D652 CONDENSING UNIT		6	30	2700		–	15	–		SPARE	12
13					2700		225	15	12		SPARE	14
15	ACU–D651 AIR CONDITIONING UNIT		12	15	115		225	15	12		SPARE	16
17	D–105 ELECTRICAL ROOM B				115		225	15	12		SPARE	18
19	ACU–D652 AIR CONDITIONING UNIT		12	15	115		500	15	12		PSP–D820, TB11	20
21	D–105 ELECTRICAL ROOM B				115		500	15	12		PSP–D820, TB13	22
23	STR–T140, MICROSTRAINER, T–110 GALLERY 5		12	15	240		500	15	12		PSP–D820, TB15	24
25	XV–D6208, PRESSURIZATION UNIT INTAKE DAMPER		12	15	20		–	15	–		SPARE	26
27	SPARE		–	15	–		–	15	–		SPARE	28
29	SPARE		–	15	–		–	15	–		SPARE	30
31	SPARE		–	15	–		–	15	–		SPARE	32
33	SPARE		–	15	–		–	15	–		SPARE	34
35	SPARE		–	15	–		–	15	–		SPARE	36
37	SPACE		–	–	–		–	–	–		SPACE	38
39	SPACE		–	–	–		–	–	–		SPACE	40
41	SPACE		–	–	–		–	–	–		SPACE	42

TOTAL CONNECTED LOAD: 15.6 KVA

PHASE A:	7.3 kVA	61.0 A
PHASE B:	4.1 kVA	34.3 A
PHASE C:	4.1 kVA	34.4 A

NOTE LEGEND:
AFCI ARC FAULT CIRCUIT INTERRUPTOR
GFCI GROUND FAULT CIRCUIT INTERRUPTOR

NOTES:
1. PROVIDE CLASS A TYPE GFCI CIRCUIT BREAKER.
2.

GENERAL NOTES:

1. PROVIDE INDIVIDUAL LOCK–OFF DEVICES FOR ALL CIRCUIT BREAKERS IN ALL PANELBOARDS.

REFERENCE DRAWINGS	DESCRIPTION
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APEGM Certificate of Authorization
SNC-Lavalin Inc.
No. 4489

NO.	REVISIONS	DATE	DESIGN	CHECK
00	ISSUED FOR CONSTRUCTION – 976–2016	2017/04/05	VVE	DEB

CH2MHILL. SNC·LAVALIN KGS GROUP

DESIGNED BY: V. ELIMBAN	CHECKED BY: E. RYCZKOWSKI
DRAWN BY: MJ. PERSSON	APPROVED BY: D. BECKER
SCALE: NTS	ISSUED FOR CONSTRUCTION BY: J. SHUMKA
DATE: 2016/06/17	DATE: 2017/04/05
CONSULTANT NO.: 474248	

ENGINEER'S SEAL
PROVINCE OF MANITOBA
D.E. BECKER
Member
23646
REGISTERED PROFESSIONAL ENGINEER
April 5/2017

THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT

SOUTH END WATER POLLUTION CONTROL CENTRE
SEWPCC UPGRADING/EXPANSION PROJECT
ELECTRICAL
FERMENTERS/THICKENERS
PANEL SCHEDULES

CITY DRAWING NUMBER	SHEET	REV.	SIZE
1–0102–ESCH–D001	001	00	A1

PLOT DATE: Mar 24, 2017 – 2:23pm
FILE NAME: 1–0102–ESCH–D001.dwg
LAST SAVE: 2017/03/24 – 2:23pm
PATH: C:\Users\persm2\DWG\1–0102–ESCH–D001.dwg