SUPPLY: 208V 3Ø 4W
MAINS AMPACITY: 600
INCOMING: ☐ BREAKER ■ LUGS
MAIN BREAKER REQUIRED: ■ YES ☐ NO
MAIN BREAKER AMPS:
BUS MATERIAL: ■ COPPER ☐ ALUMINUM
BUS AND BREAKER RATING: 18kA

NAME PLATE:

PANEL ' SP-1 '

LOCATION: CRAWLSPACE ELECTRICAL ROOM
MOUNTING: ■ SURFACE ☐ FLUSH
MANUFACTURER:
MODEL NO:
BREAKER: ☐ PLUG-IN ■ BOLT-ON
SPD: ☐ YES ■ NO
SERVICE ENTRANCE RATED: ☐ YES ■ NO

REV	CCT		VA	P	BKR	A	B	C	BKR	P	VA		CCT	REV	REV	CCT		VA	P	BKR	A	B	C	BKR	P	VA		CCT	REV
	1	RETURN FAN: RF-1	1000	2	15	•			15	2	2250	UNIT HEATER: UH-1	2			67	C-3 CHEMICAL FEED PUMP	1200	1	15	•			15	1	1050	LIGHTING: SPLASH PAD	68	
	3						•						4			69	C-4 CHEMICAL FEED PUMP	1200	1	15		•		15	1	1050	LIGHTING: SPLASH PAD	70	
	5	HEAT RECOVERY VENTILATOR: HRV-1	4000	3	25			•	15	2	2250	UNIT HEATER: UH-2	6			71	L-1: WATER LEVELLER SPLASH PAD	1200	1	15			•	15	1	191	LIGHTING: ROOM 120	72	
	7					•							8			73	L-2: WATER LEVELLER POOL	1200	1	15	•			15	1	207	LIGHTING: ROOMS 100, 101, 103	74	
	9						•						10			75	T-SLOT RECEPTACLES – SWIMSUIT DRYER	1200	1	20		•		15	1	93	LIGHTING: 104	76	
	11	HEAT RECOVERY VENTILATOR: HRV-2	600	1	15			•	15	2	2250	UNIT HEATER: UH-3	12			77	T-SLOT RECEPTACLES – SWIMSUIT DRYER	1200	1	20			•	15	1	1021	LIGHTING: 102	78	
	13	BOILER: B-1	1200	1	15	•			15	2	2250	UNIT HEATER: UH-4	14			79	T-SLOT RECEPTACLES – SWIMSUIT DRYER	1200	1	20	•			15	1	750	LIGHTING: 107, 108, 105, 110, 112a, 112b	80	
	15	BOILER: B-2	1200	1	15		•						16			81	SPARE	–	2	15		•		15	1	1000	LIGHTING: 113, 114, 115, 116, 117, 118	82	
	17	BOILER: B-3	1200	1	15			•	15	2	2250	UNIT HEATER: UH-5	18			83												84	
	19	BOILER: B-4	1200	1	15	•							20			85	SPARE	–	2	15	•			15	1	750	LIGHTING: 001, 004, 200	86	
	21	POOL HEATING CIRCULATION PUMP: PU-3	1000	2	15		•						22			87						•		15	1	1200	UV-1: ULTRAVIOLET SYSTEM	88	
	23							•	60	3	8750	PP-1: SPRAY PAD CIRC PUMP	24			89	SPARE	–	2	15			•	40	1	3200	UV-2: ULTRAVIOLET SYSTEM	90	
	25	POOL HEATING CIRCULATION PUMP: PU-4	1000	2	15	•							26			91					•			15	1	600	TELECOMMUNICATION RACK	92	
	27							•					28			93	SPARE	–	2	20		•		15	1	–	SPARE	94	
	29	POOL HEATING CIRCULATION PUMP: PU-7	1000	2	15		•		60	3	8750	PP-2: FEATURE SPARY PUMP	30			95							•	15	1	–	SPARE	96	
	31					•							32			97	SPARE	–	2	20	•			15	1	–	SPARE	98	
	33	POOL HEATING CIRCULATION PUMP: PU-8	1000	2	15		•						34			99						•		15	1	–	SPARE	100	
	35							•	40	3	6000	PP-3: GROUND SPRAY PUMP	36			101	EXHAUST FAN: EF-1	10	1	15			•	15	1	–	SPARE	102	
	37	GLYCOL MAKEUP UNIT: GMU-1	110	1	15	•							38			103	HEAT RECOVERY VENTILATOR: HRV-3	–	1	–	•			15	1	–	SPARE	104	
	39	WATER MAKUP UNIT: WMU-1	110	1	15		•						40			105	PLUMBING FIXTURE: P-3	600	1	15		•		15	1	–	SPARE	106	
	41	WOMENS – AUTO FLUSH UNITS	400	1	15			•	40	3	6000	PP-4: TWISTER SLIDE SPRAY PUMP	42			107	PLUMBING FIXTURE: P-4	600	1	15			•	15	1	–	SPARE	108	
	43	MENS – AUTO FLUSH UNITS	400	1	15	•							44			109	PLUMBING FIXTURE: P-5	600	1	15	•			15	1	–	SPARE	110	
	45	SPARE	–	1	15		•						46			111	PLUMBING FIXTURE: P-6a	600	1	15		•		15	1	–	SPARE	112	
	47	SPARE	–	1	15			•	25	3	6000	PP-5: KMR SPRAY PUMP	48			113	WATER FOUNTAIN: P-10a	600	1	15			•	20	1	–	SPARE	114	
	49	SPARE	–	1	15	•							50			115	LIGHTING	600	1	15	•			20	1	–	SPARE	116	
	51	SPARE	–	1	15			•					52			117	LIGHTING	600	1	15		•		20	1	–	SPARE	118	
	53	RECEPTACLE: ROOF TOP	1200	1	20			•	25	3	6000	PP-6: POOL CIRC PUMP	54			119	LIGHTING	600	1	15			•	20	1	–	SPARE	120	
	55	RECEPTACLE: ROOF TOP	1200	1	20	•							56			121	LIGHTING	600	1	15	•			20	1	–	SPARE	122	
	57	TEMPERED WATER RETURN PUMP: PU-9	600	1	15		•		15	1	1200	CAT-1: CHEMICAL CONTROLLER SPLASH PAD	58			123	LIGHTING	600	1	15		•		20	1	–	SPARE	124	
	59	DOMESTIC HOT WATER RETURN PUMP: PU-10	600	1	15			•	15	1	1200	CAT-2: CHEMICAL CONTROLLER POOL	60			125	LIGHTING	600	1	15			•	20	1	–	SPARE	126	
	61	CABINET UNIT HEATER: CUH-1	400	1	15	•			15	1	600	RECEPTACLES: MEZZANINE	62			127	LIGHTING	600	1	15	•			20	1	–	SPARE	128	
	63	C-1 CHEMICAL FEED PUMP	1200	1	15		•		15	1	1050	LIGHTING: SPLASH PAD	64			129	LIGHTING	600	1	15		•		20	1	–	SPARE	130	
	65	C-2 CHEMICAL FEED PUMP	1200	1	15			•	15	1	1050	LIGHTING: SPLASH PAD	66			131	LIGHTING	600	1	15			•	20	1	–	SPARE	132	

LOAD 'A'	LOAD 'B'	LOAD 'C'
35,634	34,645	34,645

SUPPLY: 208V 3Ø 4W
MAINS AMPACITY: 225
INCOMING: ☐ BREAKER ■ LUGS
MAIN BREAKER REQUIRED: ■ YES ☐ NO
MAIN BREAKER AMPS:
BUS MATERIAL: ■ COPPER ☐ ALUMINUM
BUS AND BREAKER RATING: 18kA

NAME PLATE:

PANEL ' SP-2 '

LOCATION: CRAWLSPACE
MOUNTING: ■ SURFACE ☐ FLUSH
MANUFACTURER:
MODEL NO:
BREAKER: ☐ PLUG-IN ■ BOLT-ON
SPD: ☐ YES ■ NO
SERVICE ENTRANCE RATED: ☐ YES ■ NO

REV	CCT		VA	P	BKR	A	B	C	BKR	P	VA		CCT	REV
	1	RECEPTACLES: OUTDOOR	600	1	15	•			20	2	2300	HAND DRYER: ROOM 112A	2	
	3	RECEPTACLES: OUTDOOR	600	1	15		•						4	
	5	RECEPTACLES: OUTDOOR	600	1	15			•	20	2	2300	HAND DRYER: ROOM 112B	6	
	7	T-SLOT RECEPTACLES: SPLASH PAD, ROOM 119	1200	1	20	•							8	
	9	T-SLOT RECEPTACLES: ROOMS 124, 125	1200	1	20		•		20	2	2300	HAND DRYER: ROOM 110	10	
	11	T-SLOT RECEPTACLE: SUIT DRYER ROOM 115	1200	1	20			•					12	
	13	T-SLOT RECEPTACLE: SUIT DRYER ROOM 118	1200	1	20	•			20	2	2300	HAND DRYER: ROOM 110	14	
	15	T-SLOT RECEPTACLE: SUIT DRYER ROOM 110	1200	1	20		•						16	
	17	RECEPTACLES: ROOMS 113, 114, 122	600	1	15			•	20	2	2300	HAND DRYER: ROOM 113	18	
	19	RECEPTACLES: ROOMS 116, 117	600	1	15	•							20	
	21	T-SLOT RECEPTACLES: ROOMS 109, 102	1200	1	20		•		20	2	2300	HAND DRYER: ROOM 116	22	
	23	RECEPTACLES: ROOMS 112A, 112B	600	1	15			•					24	
	25	RECEPTACLES: ROOM 120	1200	1	20	•			20	2	2300	HAND DRYER: ROOM 115	26	
	27	RECEPTACLE: DISHWASHER	600	1	15		•						28	
	29	RECEPTACLE: FRIDGE	600	1	15			•	20	2	2300	HAND DRYER: ROOM 118	30	
	31	RECEPTACLES: ROOM 120	600	1	15	•							32	
	33	RECEPTACLES: ROOM 120	600	1	15		•		20	2	2300	HAND DRYER: ROOM 122	34	
	35	RECEPTACLES: ROOM 104	600	1	15			•					36	
	37	RECEPTACELS: ROOMS 103, 104	600	1	15	•			15	1	1200	DOOR OPERATORS (F & M SHOWER)	38	
	39	RECEPTACLES: ROOM 103	600	1	15		•		15	1	1200	DOOR OPERATORS 113, 116, 122	40	
	41	RECEPTACLES: ROOMS 105, 106	600	1	15			•	15	1	1200	DOOR OPERATORS 112A, 112B	42	
	43	VENDING MACHINE RECEPTACLE	1200	1	15	•			15	1	1200	DOOR OPERATORS VEST 100	44	
	45	VENDING MACHINE RECEPTACLE	1200	1	15		•		15	1	600	FIRE ALARM CONTROL PANEL	46	
	47	VENDING MACHINE RECEPTACLE	1200	1	15			•	15	1	600	FIRE ALARM CONTROL PANEL	48	
	49	CHANGE ROOMS DISTRESS ALARM	600	1	15	•			15	1	–	SPARE	50	
	51	RECEPTACLES: ROOMS 001, 004	600	1	15		•		15	1	–	SPARE	52	
	53	RECEPTACLES: ROOM 002	600	1	15			•	15	1	–	SPARE	54	
	55	TURNSTILES	–	1	15	•			15	1	–	SPARE	56	
	57	TURNSTILES	–	1	15		•		15	1	–	SPARE	58	
	59	SPARE	–	1	20			•	15	1	–	SPARE	60	
	61	SPARE	–	1	20	•			15	1	–	SPARE	62	
	63	SPARE	–	1	20		•		15	1	–	SPARE	64	
	65	SPARE	–	1	20			•	15	1	–	SPARE	66	
	67	SPARE	–	1	20	•			15	1	–	SPARE	68	
	69	RECEPTACLES: ROOM 103	600	1	15		•		–	–	–		70	
2	71	HEAT TRACE CONTROLLER	–	1	20			•	–	–	–		72	
2	73	HEAT TRACE CONTROLLER	–	1	20	•			–	–	–		74	
	75	DOORS: D-100A, D-111, D-112A, D-112B	600	1	15		•		–	–	–		76	
	77	DOORS: D-113, D-115A, D-115B, D-116	600	1	15			•	20	1	1200	SP-1	78	
	79	DOORS: D-118B, D-118C, D-119, D-122	600	1	15	•			20	1	1200	SP-2	80	
2	81	DOORS: D-109, D-110, D-111, D-120B	600	1	15		•		15	1	600	POOL DECK DROWNING ALARMS & BEAM DETECTORS	82	
	83		–	–	–			•	15	1	600	POOL DECK DROWNING ALARMS & BEAM DETECTORS	84	

LOAD 'A'	LOAD 'B'	LOAD 'C'
18,900	18,900	18,900

4
3

SUPPLY: 600V 3Ø 4W
MAINS AMPACITY: 600
INCOMING: ☐ BREAKER ■ LUGS
MAIN BREAKER REQUIRED: ■ YES ☐ NO
MAIN BREAKER AMPS:
BUS MATERIAL: ■ COPPER ☐ ALUMINUM
BUS AND BREAKER RATING: 25kA

NAME PLATE:

PANEL ' 6SP-1 '

LOCATION: CRAWLSPACE ELECTRICAL ROOM
MOUNTING: ■ SURFACE ☐ FLUSH
MANUFACTURER:
MODEL NO:
BREAKER: ☐ PLUG-IN ■ BOLT-ON
SPD: ☐ YES ■ NO
SERVICE ENTRANCE RATED: ☐ YES ■ NO

REV	CCT		VA	P	BKR	A	B	C	BKR	P	VA		CCT	REV
	1					•							2	
	3	TRANSFORMER: TR-SP1	112500	3	150		•		300	3	240000	AIR HANDLING UNIT: AHU-1	4	
	5							•					6	
	7					•							8	
	9	POOL HEATING BOILER CIRCULATION PUMP: PU-1	2500	3	15		•		25	3	18000	AIR HANDLING UNIT: AHU-2	10	
	11							•					12	
	13					•							14	
	15	POOL HEATING BOILER CIRCULATION PUMP: PU-2	2500	3	15		•		15	3	12000	AIR HANDLING UNIT: AHU-3	16	
	17							•					18	
	19					•							20	
	21	POOL HEATING BOILER CIRCULATION PUMP: PU-5	2500	3	15		•		15	3	–	SPARE	22	
	23							•					24	
	25					•							26	
	27	POOL HEATING BOILER CIRCULATION PUMP: PU-6	2500	3	15		•		15	3	–	SPARE	28	
	29							•					30	
	31					•							32	
	33	SPARE	–	3	15		•		60	3	45000	TRANSFORMER: TR-SP2	34	
	35							•					36	
	37					•			–	–	–		38	
	39	SPARE	–	3	15		•		–	–	–		40	
	41							•	–	–	–		42	
	43					•			–	–	–		44	
	45	SPARE	–	3	20		•		–	–	–		46	
	47							•	–	–	–		48	
	49					•			–	–	–		50	
	51	SPARE	–	3	20		•		–	–	–		52	
	53							•	–	–	–		54	
	55		–	–	–	•			–	–	–		56	
	57		–	–	–		•		–	–	–		58	
	59		–	–	–			•	–	–	–		60	
	61		–	–	–	•			–	–	–		62	
	63		–	–	–		•		–	–	–		64	
	65		–	–	–			•	–	–	–		66	
	67		–	–	–	•			–	–	–		68	
	69		–	–	–		•		–	–	–		70	
	71		–	–	–			•	–	–	–		72	

LOAD 'A'	LOAD 'B'	LOAD 'C'
145,833	145,833	145,833

2

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KGS GROUP CONSULTING ENGINEERS

APEGM Certificate of Authorization KGS Group No. 245

issue / rev.

#	date	issue notes
4	2016/08/26	RE-ISSUED FOR CONSTRUCTION
3	2016/08/24	RE-ISSUED FOR CONSTRUCTION
2	2016/08/18	RE-ISSUED FOR CONSTRUCTION
1	2016/07/27	RE-ISSUED FOR CONSTRUCTION
0	2016/07/15	ISSUED FOR CONSTRUCTION

professional seals

PROVINCE OF MANITOBA — R. LALONDE — Member 38345 — REGISTERED PROFESSIONAL ENGINEER
Aug 26, 2016

project information

SEVEN OAKS POOL

444 Adsum Drive
Winnipeg, MB
Canada

client

City of Winnipeg
4th Floor - 86 King Street
Winnipeg, MB

drawing information

ELECTRICAL PANEL SCHEDULES AND DETAILS

drawn by: GCN
approved by:

scale: AS NOTED
date issued: 2016.07.15
proj. #: 14-1736-008
rev. #: R-4

SEVEN OAKS POOL RENOVATION & ADDITION
BID OPPORTUNITY NO. 645-2016

E5
02

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FileName: P:\Projects\2014\14-1736-008\Dwg\Elec\14-1736-008_E5-02.dwg – Tab: E5-02 Plotted By: dderoche 16/08/26 [Fri 11:40am]

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