PANEL	A (NEW)					FED FROM:	
						MOUNTING:	RECESSED (FLUSH)
VOLTAGE:	120/208V/3Ø/4W	225A MAINS				POWER:	NORMAL

DESCRIPTION	LOAD	BRKR	CCT	PHASE	CCT	BRKR	LOAD	DESCRIPTION
LIGHTS ABOVE POOL AREA - E. SIDE		15	1	A	43	15		LIGHTS
LIGHTS ABOVE POOL AREA - E. SIDE		15	2	B	44	15		LIGHTS
LIGHTS ABOVE POOL AREA - E. SIDE		15	3	C	45	15		LIGHTS
LIGHTS ABOVE POOL AREA - E. SIDE		15	4	A	46	15		LIGHTS
LIGHTS ABOVE POOL AREA - E. SIDE		15	5	B	47	15		LIGHTS
LIGHTS ABOVE POOL AREA - E. SIDE		15	6	C	48	15		LIGHTS
LIGHTS ABOVE POOL AREA - S. SIDE		15	7	A	49	15		LIGHTS SAUNA
LIGHTS ABOVE POOL AREA - S. SIDE		15	8	B	50	15		
LIGHTS ABOVE POOL AREA - S. SIDE		15	9	C	51	15		
LIGHTS ABOVE POOL AREA - S. SIDE		15	10	A	52	15		RECEPTACLE LOBBY VENDING MACHINE
LIGHTS ABOVE POOL AREA - S. SIDE		15	11	B	53	15		RECEPTACLE LOBBY VENDING MACHINE
LIGHTS ABOVE POOL AREA - S. SIDE		15	12	C	54	15		RECEPTACLE LOBBY VENDING MACHINE
LIGHTS ABOVE POOL AREA - W. SIDE		15	13	A	55	15		
LIGHTS ABOVE POOL AREA - W. SIDE		15	14	B	56	15		
LIGHTS ABOVE POOL AREA - CENTRE		15	15	C	57	15		SAUNA
LIGHTS ABOVE POOL AREA - CENTRE		15	16	A	58			
SUB FEEDER TO PANEL R	15		17	B	59	15		SAUNA FAN F7
			18	C	60	15		EXHAUST FAN F8
			19	A	61	15		FIRST AID RM EXHAUST FAN
POWER SUPPLY - LIGHTING CONTACTORS		15	20	B	62	15		
RECEPTACLES LOBBY		15	21	C	63	15		MENS WAHRM EXHAUST FAN F10
LOCKER ROOM EXHAUST		15	22	A	64	15		LIGHTS ABOVE POOL EAST SIDE
		15	23	B	65	15		LIGHTS ABOVE POOL WEST & NORTH SIDE
ROOF GFCI		15	24	C	66	15		LIGHTS ABOVE POOL EAST SIDE
HEAT TRACE HRU		15	25	A	67	15		LIGHTS ABOVE POOL SOUTH SIDE
ENGINEERS OFFICE HRU		15	26	B	68	15		LIGHTS ABOVE POOL EAST SIDE
ENTRANCE AIR CONDITIONER		15	27	C	69	15		LIGHTS ABOVE POOL SOUTH & MIDDLE SIDE
			28	A	70	15		LIGHTS ABOVE POOL EAST SIDE
		15	29	B	71	15		LIGHTS ABOVE POOL SOUTH SIDE 3RD ROW
NEW POOL LIGHTS SOUTHEAST		15	30	C	72	15		UNDERWATER LIGHTS
NEW POOL LIGHTS NORTHEAST		15	31	A	73	15		UNDERWATER LIGHTS
HAND FREE PLUMBING CONTROL		15	32	B	74	15		UNDERWATER LIGHTS
DOOR ASSIST		15	33	C	75	15		UNDERWATER LIGHTS
CHANGE TABLE		15	34	A	76	15		UNDERWATER LIGHTS
LIFT		15	35	B	77	15		UNDERWATER LIGHTS
REC UTR BAR/ATRIUM UTR		20	36	C	78	15		CEILING FAN
SAUNA		20	37	A	79	15		CEILING FAN
DOOR ASSIST		15	38	B	80	15		
REC DRINKING FOUNTAIN		15	39	C	81	15		
HANDS FREE PLUMBING CONTROL		15	40	A	82	15		
REC GROOMING		20	41	B	83	15		
		15	42	C	84	15		

LIGHTING		ELECTRIC WATER HEATING		MOTORS		ELECTRIC RAMP HEATING	
PARKING RECEPTACLES		AIR CONDITIONING		MISCELLANEOUS LOADS		LAUNDRY EQUIPMENT	
ELECTRIC HEATING		ELEVATOR MOTORS		ELECTRIC BOILER		KITCHEN EQUIPMENT	
						TOTAL (kVA)	

PANEL	N					FED FROM:	
						MOUNTING:	SURFACE
VOLTAGE:	120/208V/3Ø/4W	225A MAINS				POWER:	NORMAL

DESCRIPTION	LOAD	BRKR	CCT	PHASE	CCT	BRKR	LOAD	DESCRIPTION
HAND DRYER	2300	20	1	A	31	20	1200	HEAT TRACE (GFI BREAKER)
HAND DRYER	2300	20	2	B	32	20	600	HEAT TRACE (GFI BREAKER)
HAND DRYER	2300	20	3	C	33	20	600	EXTERIOR RECEPTACLE
HAND DRYER	2300	20	4	A	34	15	600	MOTORIZED DAMPER
HAND DRYER	2300	20	5	B	35	15	100	DRINKING FOUNTAIN
HAND DRYER	2300	20	6	C	36	15	100	EF-5
HAND DRYER	2300	20	7	A	37	15	100	EF-6
HAND DRYER	2300	20	8	B	38	20		COUNTER REC STAFF
HAND DRYER	2300	20	9	C	39	15		REC STAFF ROOM
HAND DRYER	2300	20	10	A	40	15		REC FRIDGE
HAND DRYER	2300	20	11	B	41	15		SPARE
HAND DRYER	2300	20	12	C	42	15		SPARE
HAND DRYER	2300	20	13	A	43	15		SPARE
RECEPTACLE	600	15	14	B	44	15		SPARE
RECEPTACLE	600	15	15	C	45	15		SPARE
RECEPTACLE SCANNER	600	15	16	A	46	15		SPARE
RECEPTACLE	600	15	17	B	47	15		SPARE
CAMERA	600	15	18	C	48	15		SPARE
RECEPTACLE POS	600	15	19	A	49	15		SPARE
PRINTER	600	15	20	B	50	15		SPARE
RECEPTACLER	600	15	21	C	51	15		SPARE
RECEPTACLE	600	15	22	A	52			SPACE
RECEPTCLE	600	15	23	B	53			SPACE
RECEPTACLE	600	15	24	C	54			SPACE
RECEPTACLE	600	15	25	A	55			SPACE
COPIER	1200	20	26	B	56			SPACE
COPIER	1200	20	27	C	57	15		P-10
RECEPTACLE	1200	20	28	A	58	15		P-9
RECEPTACLE	1200	20	29	B	59	15		P-7
HEAT TRACE (GFI BREAKER)	1200	20	30	C	60	15		P-5

LIGHTING		ELECTRIC WATER HEATING		MOTORS	0.30	ELECTRIC RAMP HEATING	
PARKING RECEPTACLES		AIR CONDITIONING		MISCELLANEOUS LOADS	46.10	LAUNDRY EQUIPMENT	
ELECTRIC HEATING		ELEVATOR MOTORS		ELECTRIC BOILER		KITCHEN EQUIPMENT	
						TOTAL (kVA)	46.40

PANEL	EM (EXISTING)					FED FROM:	
						MOUNTING:	RECESSED (FLUSH)
VOLTAGE:	120/208V/3Ø/4W	225A MAINS				POWER:	NORMAL

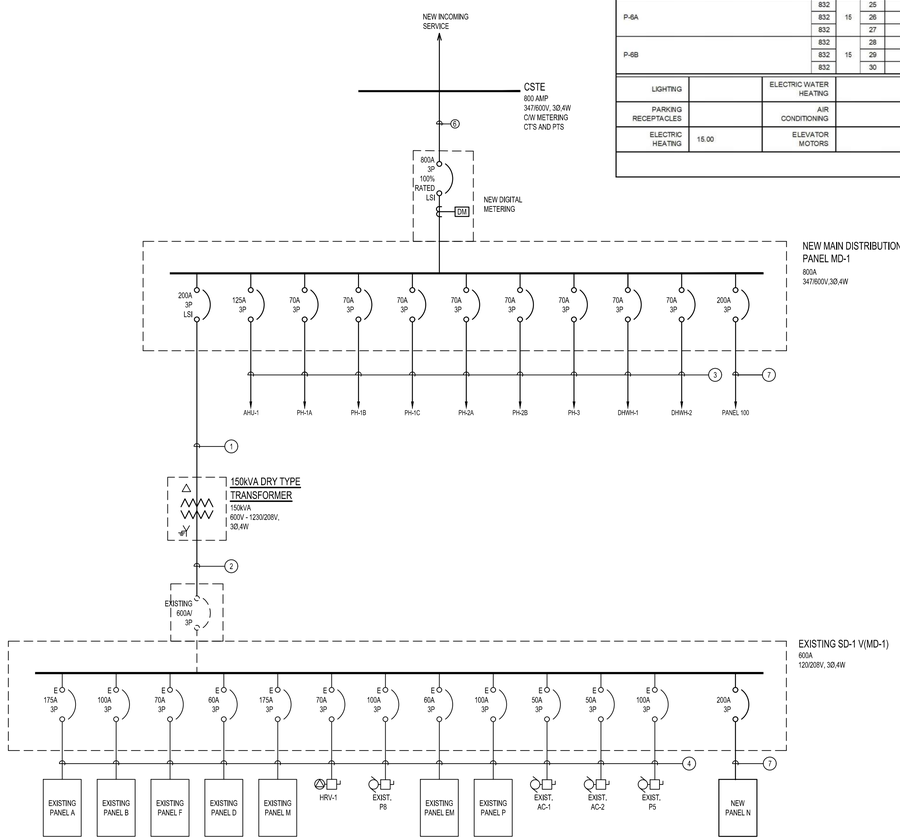
DESCRIPTION	LOAD	BRKR	CCT	PHASE	CCT	BRKR	LOAD	DESCRIPTION
PNEUMATIC PANEL POWER SUPPLY		15	1	A	13	15		EMERGENCY WATER MAKE-UP FOR BOILERS
WOMENS CHANGE RM/SHOWER EMERG LIGHTS		15	2	B	14	15		CONDENSATE PUMP P2
MENS SHOWER & STAIRS EMERG LIGHTS		15	3	C	15	15		CONDENSATE PUMP P3 & CONDENSATE LEVEL CTRL
LOBBY & OBSERVATION RMS EMERG LIGHTS		15	4	A	16	15		COMPRESSOR P9
LIFE GUARD & FIRST AID EMERG LIGHTS		15	5	B	17	15		POWER SUPPLY BOILER 1
POOL EAST SIDE EMERG LIGHTS		15	6	C	18	15		POWER SUPPLY BOILER B2
CHLORINE RM EXHAUST FAN F5		15	7	A	19	15		METASYS
POOL WEST SIDE EMERG LIGHTS		15	8	B	20	15		AIR INTAKE FAN IN ELECTRICAL RM F11
POWER SUPPLY RELAY TRANSF. CLOCK		15	9	C	21	15		AIR INTAKE FAN IN ELECTRICAL RM F11
EXIST LIOGHTS		15	10	A	22	15		BOILER CONTROL
BASEMENT EMERGENCY LIGHTS		15	11	B	23	15		BOILER RM GAS DETECTOR
BACKUP COMPRESSOR & RECEPTACLES		15	12	C	24	15		CO2/CHLORINE GAS DETECTOR

LIGHTING		ELECTRIC WATER HEATING		MOTORS		ELECTRIC RAMP HEATING	
PARKING RECEPTACLES		AIR CONDITIONING		MISCELLANEOUS LOADS		LAUNDRY EQUIPMENT	
ELECTRIC HEATING		ELEVATOR MOTORS		ELECTRIC BOILER		KITCHEN EQUIPMENT	
						TOTAL (kVA)	

PANEL	100					FED FROM:	
						MOUNTING:	SURFACE
VOLTAGE:	347/600V/3Ø/4W	225A MAINS				POWER:	NORMAL

DESCRIPTION	LOAD	BRKR	CCT	PHASE	CCT	BRKR	LOAD	DESCRIPTION
P-4	590		1	A	31		832	P-8
	590	15	2	B	32	15	832	
	590		3	C	33		832	
P-1A	832		4	A	34		832	P-11A
	832	15	5	B	35	15	832	
	832		6	C	36		832	
P-1B	832		7	A	37		832	P-11B
	832	15	8	B	38	15	832	
	832		9	C	39		832	
P-2A	936		10	A	40		2115	AHU-2
	936	15	11	B	41	20	2115	
	936		12	C	42		2115	
P-2B	936		13	A	43	15		SPACE
	936	15	14	B	44	15		SPACE
	936		15	C	45	15		SPACE
P-3A	2115		16	A	46	15		SPACE
	2115	20	17	B	47	15		SPACE
	2115		18	C	48	15		SPACE
P-3B	2115		19	A	49	15		SPACE
	2115	20	20	B	50	15		SPACE
	2115		21	C	51	15		SPACE
HC-16	5000		22	A	52	15		SPACE
	5000	20	23	B	53	15		SPACE
	5000		24	C	54	15		SPACE
P-6A	832		25	A	55	15		SPACE
	832	15	26	B	56	15		SPACE
	832		27	C	57	15		SPACE
P-6B	832		28	A	58	15		SPACE
	832	15	29	B	59	15		SPACE
	832		30	C	60	15		SPACE

LIGHTING		ELECTRIC WATER HEATING		MOTORS	43.89	ELECTRIC RAMP HEATING	
PARKING RECEPTACLES		AIR CONDITIONING		MISCELLANEOUS LOADS		LAUNDRY EQUIPMENT	
ELECTRIC HEATING	15.00	ELEVATOR MOTORS		ELECTRIC BOILER		KITCHEN EQUIPMENT	
						TOTAL (kVA)	58.89



1 / E4.0 SINGLE LINE DISTRIBUTION SCHEMATIC

SCALE: NTS

FEEDER SCHEDULE		
TYPE	DESCRIPTION	AMPACITY
1	3#3/0 RW90 #2 GRN IN 2"C	200
2	2 X (4#750 MCM RW90 #3/0 GRN IN 4"C)	950
3	REFER TO ME SHEET	
4	EXISTING FEEDER TO REMAIN	
5	4#3 RW90 IN 1 1/4"C	100
6	3x (4/C #500 MCM ACWU) DIRECT BURIED DIAGRAM D11, TABLE D11B, DETAIL 3	3x301 =904
7	4#3/0 RW90 IN 2"C (53MM)	200

PROVINCE OF MANITOBA
2023-12-21
K. E. ISAAK
REGISTERED PROFESSIONAL ENGINEER

ENGINEERS GEOSCIENTISTS MANITOBA
Certificate of Authorization
MCW Consultants Ltd.
No. 7183

THIS IS A PRINT OF A DOCUMENT THAT HAS BEEN ELECTRONICALLY AUTHENTICATED WITH TECHNOLOGY AUTHORIZED BY THE EGM. THE ORIGINAL IS IN ELECTRONIC FORM.

MCW Consultants Ltd.
13600
210-1821 Wellington Avenue
Winnipeg, Manitoba, R3H 0G4
Phone – (204) 775-7900
mcw_wpg@mcw.com
www.mcw.com

No.	Date	Issue / Revision	By
0	22/12/2023	ISSUED FOR CONSTRUCTION	DG

Drawn By: MFP
Printing Date: 22/12/2023

Drawings and specifications, as instruments of service are the property of the architects, the copyright in the same being reserved to them. No reproduction may be made without the permission of the architects, and when made, must bear their names. All prints to be returned.

The contractor is to verify dimensions and data noted herein with conditions on the site and is held responsible for reporting any discrepancy to the architects for adjustment.

LM Architectural Group
500-136 Market Ave
Winnipeg Manitoba Canada R3B 0P4
t: (204) 942.0681 f: (204) 943.8676
www.lm-architects.com

CITY OF WINNIPEG
BONIVITAL POOL RENEWAL

1215 Archibald St, Winnipeg, MB.

PANEL SCHEDULES DISTRIBUTION SCHEMATIC

Comm. No.: 2129 Sheet: **E4.0**

Plotted on: 22-12-23