



1 POWER LAYOUT - NORTH AREA
E4.0 SCALE: 1:100

WET AND HAZARDOUS LOCATION ELECTRICAL NOTES

- ALL WIRING AND ELECTRICAL EQUIPMENT IN WET LOCATION TO BE IN COMPLIANCE WITH C.E.C. 22-002 CATEGORY 1.
- ALL LIGHTING TO BE LENSED. CONFIRM PRIOR TO ORDERING.

HEATING SCHEDULE - NORTH AREA						
TYPE	WATTS	VOLTAGE	DESCRIPTION	MANUFACTURER	CATALOGUE NO.	NOTES
C	1000	347	BASEBOARD	OUELLET	OFM1007	1
UH-1	20000	600	UNIT HEATER - WET LOCATION RATED	OUELLET	OWD20036	3
UH-2	20000	600	UNIT HEATER	OUELLET	OAS20036AM	3

SPECIFIC HEATING NOTES:

- C/W BUILT-IN THERMOSTAT OR WIRE TO REMOTE THERMOSTAT AS SHOWN ON DRAWINGS. BASEBOARD TO BE C/W CLEAN BACK AND PEDESTAL MOUNTING KIT FOR MOUNTING IN FRONT OF FULL HEIGHT GLAZING. FINISH TO BE BLACK UNLESS OTHERWISE NOTED.
- C/W BUILT-IN THERMOSTAT UNLESS OTHERWISE INDICATED. RECESSED. FINISH TO BE BLACK UNLESS OTHERWISE NOTED.
- C/W BUILT-IN THERMOSTAT. MOUNT SECURELY WHERE INDICATED TO THE SATISFACTION OF THE ENGINEER.

GENERAL HEATING NOTES:

- VOLTAGE TO BE AS INDICATED ABOVE UNLESS OTHERWISE NOTED ON DRAWINGS.
- HEATER SHALL BE FED FROM GFCI PROTECTED CIRCUIT IF INSTALLED WITHIN 1m OF A SINK, TUB, SHOWER (CEC 62-132). CONTROLS FOR HEATERS SHALL BE NO CLOSER THAN 500mm FROM SINK, TUB, SHOWER (CEC 62-130).

MOTOR SCHEDULE									
NO.	DESCRIPTION	LOCATION	VOLTAGE	HP/W/MCA	C.B.	COND.	STARTER	NOTES	
FC-1-1	FAN COIL	WASAC MTG	208V-1PH	4.3 MCA	15A-2P	#12	PACKAGED	1	
FC-1-2	FAN COIL	WADING POOLS OFFICE	208V-1PH	1.8 MCA	15A-2P	#12	PACKAGED	1	
FC-1-3	FAN COIL	WADING POOLS OPEN OFFICE	208V-1PH	4.3 MCA	15A-2P	#12	PACKAGED	1	
FC-1-4	FAN COIL	BY-LAW OFFICE	208V-1PH	1.8 MCA	15A-2P	#12	PACKAGED	1	
FC-1-5	FAN COIL	STAFF ROOM	208V-1PH	2.1 MCA	15A-2P	#12	PACKAGED	1	
FC-1-6	FAN COIL	BY-LAW OPEN OFFICE	208V-1PH	2.9 MCA	15A-2P	#12	PACKAGED	1	
FC-2-1	FAN COIL	WELCOME OFFICE	208V-1PH	4.4 MCA	15A-2P	#12	PACKAGED	1	
FC-2-2	FAN COIL	CANTEEN	208V-1PH	4.3 MCA	15A-2P	#12	PACKAGED	1	
FC-2-3	FAN COIL	CANTEEN	208V-1PH	3 MCA	15A-2P	#12	PACKAGED	1	
FC-2-4	FAN COIL	WASAC OPEN OFFICE	208V-1PH	2.9 MCA	15A-2P	#12	PACKAGED	1	
FC-2-5	FAN COIL	WASAC OPEN OFFICE	208V-1PH	2.9 MCA	15A-2P	#12	PACKAGED	1	
FC-2-6	FAN COIL	WASAC OPEN OFFICE	208V-1PH	2.9 MCA	15A-2P	#12	PACKAGED	1	
FC-2-7	FAN COIL	WASAC STORAGE	208V-1PH	2.9 MCA	15A-2P	#12	PACKAGED	1	
HC-1-1	HEATING COIL	WASAC MTG	347V-1PH	3 KW	15A-1P	#12	-	1	
HC-1-2	HEATING COIL	WADING POOLS OFFICE	347V-1PH	2 KW	15A-1P	#12	-	1	
HC-1-3	HEATING COIL	WADING POOLS OPEN OFFICE	347V-1PH	6 KW	25A-1P	#10	-	1	
HC-1-4	HEATING COIL	BY-LAW OFFICE	347V-1PH	2 KW	15A-1P	#12	-	1	
HC-1-5	HEATING COIL	STAFF ROOM	347V-1PH	2 KW	15A-1P	#12	-	1	
HC-1-6	HEATING COIL	BY-LAW OPEN OFFICE	347V-1PH	5 KW	20A-1P	#12	-	1	
HC-2-1	HEATING COIL	WELCOME OFFICE	347V-1PH	6 KW	25A-1P	#10	-	1	
HC-2-2	HEATING COIL	CANTEEN	347V-1PH	6 KW	25A-1P	#10	-	1	
HC-2-3	HEATING COIL	CANTEEN	347V-1PH	2 KW	15A-1P	#12	-	1	
HC-2-4	HEATING COIL	WASAC OPEN OFFICE	347V-1PH	3 KW	15A-1P	#12	-	1	
HC-2-5	HEATING COIL	WASAC OPEN OFFICE	347V-1PH	5 KW	20A-1P	#12	-	1	
HC-2-6	HEATING COIL	WASAC OPEN OFFICE	347V-1PH	1.5 KW	15A-1P	#12	-	1	
HC-2-7	HEATING COIL	WASAC STORAGE	347V-1PH	3 KW	15A-1P	#12	-	1	

MUA-1	MAKE UP AIR UNIT	GRADE	600V-3PH	46 MCA	50A-3P	#8	PACKAGED	1	
ACCU-1	CONDENSING UNIT	ROOF	208V-3PH	11 MCA	15A-3P	#12	PACKAGED	1	
ACCU-2	CONDENSING UNIT	ROOF	208V-3PH	11 MCA	15A-3P	#12	PACKAGED	1	
HP-1	HEAT PUMP	ROOF	208V-3PH	66 MCA	110A-3P	#2	PACKAGED	1	
HP-2A	HEAT PUMP	ROOF	208V-3PH	55 MCA	90A-3P	#6	PACKAGED	1	
HP-2B	HEAT PUMP	ROOF	208V-3PH	55 MCA	90A-3P	#6	PACKAGED	1	
HRV-1	HEAT RECOVERY VENT.	MECHANICAL 119	208V-3PH	28 MCA	35A-3P	#8	PACKAGED	1	
HRV-2	HEAT RECOVERY VENT.	MECHANICAL 119	208V-3PH	28 MCA	35A-3P	#8	PACKAGED	1	
HRV-3	HEAT RECOVERY VENT.	JAN/LAUNDRY 145	120V-1PH	1.9 MCA	15A-1P	#12	PACKAGED	1,4	
HRV-4	HEAT RECOVERY VENT.	MPR STORAGE 137	120V-1PH	5.5 FLA	15A-1P	#12	PACKAGED	1,4	
HRV-5	HEAT RECOVERY VENT.	GRADE	600V-3PH	42 MCA	45A-3P	#8	PACKAGED	1,4	
CU-1	CONDENSING UNIT	GRADE	600V-3PH	14 MCA	15A-3P	#12	PACKAGED	1	
CU-2	CONDENSING UNIT	GRADE	600V-3PH	44.3 MCA	50A-3P	#12	PACKAGED	1	
CU-3	CONDENSING UNIT	GRADE	208V-1PH	16.7 MCA	25A-2P	#10	PACKAGED	1	
CU-4	CONDENSING UNIT	GRADE	208V-1PH	15.2 MCA	25A-2P	#10	PACKAGED	1	
CU-5	SPLIT A/C UNIT	ROOF	208V-1PH	25 MCA	30A-2P	#10	PACKAGED	1,5	
AC-5	SPLIT A/C UNIT	ELEC/T 118	208V-1PH	1A	-	-	PACKAGED	1,5	
CU-6	SPLIT A/C UNIT	GRADE	208V-1PH	11A	15A-2P	#12	PACKAGED	1,5	
AC-6	SPLIT A/C UNIT	ELEC 139B	208V-1PH	1A	-	-	PACKAGED	1,5	
AH-1	AIR HANDLER UNIT	MECH ROOM 153	600V-3PH	56.2 MCA	60A-3P	#6	PACKAGED	1	
AH-2	AIR HANDLER UNIT	MECH ROOM 153	600V-3PH	87.3 MCA	100A-3P	#3	PACKAGED	1	
AH-3	AIR HANDLER UNIT	GRADE	600V-3PH	22 MCA	25A-3P	#10	PACKAGED	1	
P-1	CONDENSATE PUMP	MECH ROOM 153	120V-1PH	FRAC.	15A-1P	#12	-	1,3	
P-2	CONDENSATE PUMP	MECH ROOM 153	120V-1PH	FRAC.	15A-1P	#12	-	1,3	
FC-1	FAN COIL	MPR STORAGE 137	208V-1PH	74.4 MCA	80A-2P	#4	PACKAGED	1	
FC-2	FAN COIL	MPR STORAGE 137	208V-1PH	43.3 MCA	45A-2P	#8	PACKAGED	1	
PHC-2	PRE HEAT COIL	MPR STORAGE 137	347V-1PH	4 KW	15A-1P	#12	-	1	
PHC-3	PRE HEAT COIL	MPR STORAGE 137	347V-1PH	5 KW	20A-1P	#12	-	1	
EF-1	EXHAUST FAN	WASH BAY	120V-1PH	1/4HP	15A-1P	#12	-	1,2	
EF-2	EXHAUST FAN	JAN/LAUNDRY 145	120V-1PH	FRAC.	15A-1P	#12	-	1,6	
EF-3	EXHAUST FAN	UTR 144	120V-1PH	FRAC.	15A-1P	#12	-	1,7	
HU-1	HUMIDIFIER	MECHANICAL 119	208V-1PH	4 KW	25A-2P	#12	PACKAGED	1	
HWT-1	HOT WATER TANK	MECHANICAL 119	600V-3PH	27 KW	35A-3P	#8	-	1	
HWT-2	HOT WATER TANK	JAN/LAUNDRY 145	600V-3PH	12 KW	15A-3P	#12	-	1	
CP-1	CIRC. PUMP	MECHANICAL 119	120V-1PH	FRAC.	15A-1P	#12	-	1	
CP-2	CIRC. PUMP	JAN/LAUNDRY 145	120V-1PH	FRAC.	15A-1P	#12	-	1	
CF-1 THU 6	CEILING FAN	MULTI-PURPOSE WORKSPACE	120V-1PH	FRAC.	15A-1P	#12	-	1,6	

SPECIFIC NOTES:

- WIRE AND CONNECT AS REQUIRED. REFER TO MECHANICAL.
- MAGNETIC STARTER BY ELECTRICAL CONTRACTOR.
- MANUAL STARTER BY ELECTRICAL CONTRACTOR.
- HRV'S ARE CORD CONNECTED AND REQUIRE SEPARATE CIRCUIT RECEPTACLES AT HIGH LEVEL FOR PLUG IN. COORDINATE FINAL MOUNTING LOCATION WITH MECHANICAL PRIOR TO ROUGH-IN.
- WIRE AND CONNECT INDOOR UNIT TO OUTDOOR UNIT TERMINALS, AS PER MANUFACTURER'S RECOMMENDATIONS. REFER TO MECHANICAL.
- TIE EXHAUST FAN TO WALL SWITCH IN ROOM. COORDINATE FINAL LOCATION WITH MECHANICAL.
- TIE EXHAUST FAN TO ROOM LIGHT SWITCH.

GENERAL NOTES:

- MANUAL STARTERS TO BE C/W OVERCURRENT PROTECTION.
- ALL DISCONNECT SWITCHES TO BE SUPPLIED BY ELECTRICAL CONTRACTOR.
- ELECTRICAL CONTRACTOR TO PROVIDE CIRCUIT BREAKERS AND WIRING ACCORDING TO THE FINAL NAMEPLATES OF ALL THE MECHANICAL EQUIPMENT.
- ALL LOW VOLTAGE CONTROL WIRING BY MECHANICAL CONTRACTOR.
- ALL LINE VOLTAGE CONTROL WIRING BY ELECTRICAL CONTRACTOR - REFER TO MECHANICAL SECTION. CO-ORDINATE EXACT REQUIREMENTS WITH MECHANICAL CONTRACTOR.

- NOTES:**
- SPECIFIC ELECTRICAL NOTES**
- WIRE AND CONNECT POWER DOOR OPERATOR AND ALL RELATED CONTROLS. CONFIRM EXACT REQUIREMENTS WITH MANUFACTURER PRIOR TO ROUGH-IN.
 - WIRE AND CONNECT OVERHEAD DOOR OPERATOR AND ALL RELATED CONTROLS. CONFIRM EXACT REQUIREMENTS WITH MANUFACTURER PRIOR TO ROUGH-IN.
 - EXISTING OVERHEAD DOORS TO REMAIN.
 - POWER AND DATA TO FEED WORK STATIONS ARE TO BE RUN FROM EXTERIOR WALL. IN NEW LOW HEIGHT STUD WALL. COORDINATE EXACT LOCATION AND ROUTING WITH G.C. PRIOR TO ROUGH-IN.
 - PROVIDE RECEPTACLE MOUNTED TO AIR HANDLER UNIT FOR CONNECTION OF ASSOCIATED CONDENSATE PUMP WITH CORDED END.
 - COORDINATE WITH CITY OF WINNIPEG FINAL PLUG, DATA AND PHONE RECEPTACLES FOR COMPUTER, PINPAD (POS), PRINTER AND LANDLINE PHONE PRIOR TO ROUGH IN.
 - WIRE AND CONNECT FIRE SHUTTER C/W FUSIBLE LINK AND ALL RELATED CONTROLS. COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER PRIOR TO ROUGH-IN. (NOTE: DOES NOT REQUIRE FIRE ALARM CONDITION)
 - PROVIDE AN EMERGENCY CALL SYSTEM FOR ACCESSIBLE RESTROOM AS REQUIRED BY MBC SECTION 3.8.3 AND THE PROVISION OF CSA B651-18 SECTION 3.8.1.2. SYSTEM TO BE CAMDEN CX-WC11 SYSTEM INCLUDING UTR DOOR OPERATOR, LOCK, CONTROLS AND ALARM SYSTEM. REFER TO ARCHITECTURAL DOOR HARDWARE SPECIFICATIONS FOR DETAILS.
 - CO/NO2 SENSOR SUPPLIED BY MECHANICAL. WIRE AND CONNECTED BY ELECTRICAL.
 - WIRE AND CONNECT LOW VOLTAGE TRANSFORMER FOR AUTO FLUSH AND AUTO FAUCET DEVICES. COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER PRIOR TO ROUGH-IN.
 - WIRE AND CONNECT POWER WASHER AND ALL ASSOCIATED CONTROLS AS REQUIRED. CONFIRM EXACT REQUIREMENTS AND CONNECTION TYPE WITH SUPPLIER PRIOR TO ROUGH-IN. PROVIDE RECEPTACLE OR DIRECT CONNECTION AS NEEDED. VERIFY FINAL LOCATION WITH CITY OF WINNIPEG PRIOR TO ROUGH-IN.
 - SUPPLY, INSTALL, WIRE AND CONNECT RECEIVING AREA DOOR SIGNAL SYSTEM C/W EXTERIOR WEATHER-PROOF PUSH BUTTON, INTERIOR BUZZER, LOW VOLTAGE TRANSFORMER AS NECESSARY. VERIFY FINAL BUZZER LOCATION WITH CITY OF WINNIPEG PRIOR TO ROUGH-IN.

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DATE: 2024.12.12	USER		

THE CITY OF WINNIPEG
 ASSETS AND PROJECT MANAGEMENT
 DEPARTMENT
 MUNICIPAL ACCOMMODATIONS DIVISION
 3-65 GARRY STREET, R3C 4K4

PROJECT
REDEVELOPMENT OF THE OLD EXHIBITION ARENA

80 SINCLAIR STREET
 SHEET TITLE

ELECTRICAL
POWER AND SYSTEMS LAYOUT - NORTH

SCALE	PROJECT No:	SHEET No:
AS SHOWN	2020-136	E4.0

