

DRAWING NOTES:

1 REFER TO MECHANICAL DRAWINGS & SPECS FOR INTERLOCKING DETAILS REQUIREMENT. CONTRACTOR SHALL PROVIDE ALL NECESSARY WIRING/RELAY STARTER, & CONTROL DEVICES, ETC. TO MAKE THE SYSTEM/EQUIPMENT COMPLETE IN EVERY ASPECTS.

MOTOR/EQUIPMENT SCHEDULE

ITEM	EQUIPMENT			FEED FROM	PKG UNIT	STARTER					CONTROLS			FIRE ALARM SHUT-DOWN	REMARKS	SEE NOTES BELOW	
	DESCRIPTION	LOCATION	KW/HP/AMPS			TYPE	FUNC	PL	PB	HOA	SUPPLY BY	TYPE	SUPPLY BY				INSTALL BY
CF1,3	CONTROL FAN	GYM 113	1.2KW	120/1	2M-13	Y							MC	MC	EC	C/W ELECTRONIC SPEED CONTROL	
CF2,4	CONTROL FAN	GYM 113	1.2KW	120/1	2M-15	Y							MC	MC	EC	C/W ELECTRONIC SPEED CONTROL	
CU-1A	CONDENSER UNIT	OUTDOOR	18.6AMPS	208/3	2M-19,21,23	Y							MC	MC	EC		
CU-1B	CONDENSER UNIT	OUTDOOR	18.6AMPS	208/3	2M-25,27,29	Y							MC	MC	EC		
CU-2A	CONDENSER UNIT	OUTDOOR	18.6AMPS	208/3	2M-31,33,35	Y							MC	MC	EC		
CU-2B	CONDENSER UNIT	OUTDOOR	15.1AMPS	208/3	2M-31,33,35	Y							MC	MC	EC		
CU-3	CONDENSER UNIT	OUTDOOR	15.1AMPS	208/3	2M-2,4,6	Y							MC	MC	EC		
CU-4	CONDENSER UNIT	OUTDOOR	15.1AMPS	208/3	2M-8,10,12	Y							MC	MC	EC		
EBB1	ELECTRIC BASEBOARD HEATER	WOMENS WASHROOM 108	1KW	208/1	2M-14,16	Y							EC	EC	EC		
EBB2	ELECTRIC BASEBOARD HEATER	OFFICE 105	1.5KW	208/1	2M-18,20	Y							EC	EC	EC		
EFF1	ELECTRIC FORCE FLOW HEATER	OFFICE 105	6KW	208/1	2M-22,24	Y							EC	EC	EC		
F1A	GAS FURNACE	MECH./ELECT. ROOM 112	1HP	120/1	2M-1	Y							EC	EC	EC		
F1B	GAS FURNACE	MECH./ELECT. ROOM 112	1HP	120/1	2M-3	Y							MC	MC	EC		
F2A	GAS FURNACE	MECH./ELECT. ROOM 112	1HP	120/1	2M-5	Y							MC	MC	EC		
F2B	GAS FURNACE	MECH./ELECT. ROOM 112	1HP	120/1	2M-7	Y							MC	MC	EC		
F3	GAS FURNACE	MECH./ELECT. ROOM 112	1/2HP	120/1	2M-9	Y							MC	MC	EC		
F4	GAS FURNACE	MECH./ELECT. ROOM 112	1/2HP	120/1	2M-11	Y							MC	MC	EC		
HRV-1	HEAT RECOVERY VENTILATOR	MECH./ELECT. ROOM 112	1/3HP	120/1	2M-17	Y							MC	MC	EC		

GENERAL NOTES:

A. MANUAL MOTOR STARTER TO BE C/W PILOT LIGHT AND OVERCURRENT PROTECTION.

B. ALL STARTERS TO BE SUPPLIED & INSTALLED BY THE ELECTRICAL CONTRACTOR (EC) UNLESS OTHERWISE NOTED.

C. DISCONNECT SWITCHES TO BE SUPPLIED & INSTALLED BY THE ELECTRICAL CONTRACTOR (EC)

D. ELECTRICAL CONTRACTOR TO PROVIDE CIRCUIT BREAKERS AND WIRING ACCORDING TO THE FINAL NAMEPLATES OF THE MECHANICAL EQUIPMENT AT NO COST.

E. REFER TO PANELBOARD SCHEDULES AND SINGLE LINE DIAGRAM FOR MOTOR AND EQUIPMENT OVERLOAD PROTECTION.

MAG = MAGNETIC STARTER
 FVNR = FULL VOLTAGE NON-REVERSING
 RVNR = REDUCED VOLTAGE NON-REVERSING
 MAN = MANUAL STARTER
 VFD = VARIABLE FREQUENCY DRIVE
 TOG = MOTOR RATED TOGGLE SWITCH
 PL = PILOT LIGHT
 HOA = HAND/OFF/AUTO
 EC = ELECTRICAL CONTRACTOR
 MC = MECHANICAL CONTRACTOR

T = THERMOSTAT
 H = HUMIDISTAT
 AD = AMMONIA DETECTION SYSTEM
 DDC = COMPUTER CONTROL SYSTEM
 TC = TIMECLOCK
 MT = MANUAL TIMER
 MS = MANUAL SWITCH
 ESC = ELECTRONIC SPEED CONTROLLER
 PS = PRESSURE SWITCH
 BIT = BUILT-IN THERMOSTAT
 CO = CARBON MONOXIDE DETECTOR
 GC = GENERAL CONTRACTOR
 RC = REFRIGERATION CONTRACTOR

NOTES:

- PROVIDE TAMPER PROOF THERMOSTAT
- PROVIDE RELAY TO INTERLOCK TO VAV.
- PROVIDE LINE VOLTAGE THERMOSTAT
- PROVIDE BUILT IN CONTACTOR/THERMOSTAT
- PROVIDE INTERLOCK FOR SHUTDOWN UPON FIRE ALARM SIGNAL.
- PROVIDE DOUBLE REVERSE INTERLOCK TO MAKEUP AIR MAU-1
- WIRE AND CONNECT MAU-1 CONTROL PANEL.

PANEL: 2L VOLTAGE: 120/208 BUS: 225A PHASE: 3 WIRE: 4

DESCRIPTION	LOAD WATTS	BKR SIZE	CIRCUIT	BKR SIZE	LOAD WATTS	DESCRIPTION
GYM GROUP A LIGHTING	1080	15	1	2	15	NIGHT LIGHT
GYM GROUP B LIGHTING	1080	15	3	4	15	VESTIBULE 101 LIGHTING
GYM GROUP C LIGHTING	1080	15	5	6	15	CANOPY LIGHTING
GYM GROUP D LIGHTING	1080	15	7	8	15	OFFICE 105 LIGHTING
GYM GROUP E LIGHTING	1080	15	9	10	15	100 RM 130 LIGHTING
GYM GROUP F LIGHTING	1080	15	11	12	15	SPARE
GYM GROUP G LIGHTING	1080	15	13	14	15	SPARE
GYM GROUP H LIGHTING	1080	15	15	16		SPACE
WASHROOM LIGHTING	420	15	17	18		SPACE
STORAGE ROOM LIGHTING	560	15	19	20		SPACE
ELEC. RM./BAR/CANTEEN	1000	15	21	22		SPACE
SPARE		15	23	24		SPACE
MRP POTLIGHTS	800	15	25	26		SPACE
MRP POTLIGHTS	800	15	27	28		SPACE
MRP LIGHTS	1200	15	29	30		SPACE
ENTRANCE 101 LIGHTING/WASHRM.	1140	15	31	32		SPACE
CORRIDOR 103 LIGHTING	900	15	33	34		SPACE
EAST EXTERIOR LIGHTING	700	15	35	36		SPACE
NORTH EXTERIOR LIGHTING	525	15	37	38		SPACE
NORTHWEST EXTERIOR LIGHTING	700	15	39	40		SPACE
WEST EXIT LIGHTING	700	15	41	42		SPACE
HTG.	LTG.	20.02 KW	MTR.	MISC.	TOTAL	20.02 KW

FIRE ALARM ZONE

ZONE NO.	DESCRIPTION
1	EXISTING STAIRCASE #1
2	EXISTING BUILDING
3	NEW COMMON AREAS
4	NEW GYM

NOTES:

A. PROVIDE FAULT ISOLATION MODULE BETWEEN EACH ZONE AS PER CAN/ULC-S524-06

LUMINAIRE SCHEDULE

TYPE	MANUFACTURER	CATALOGUE NO.	LAMPS		VOLTS	MOUNTING	REMARKS	NOTES
			NO.	TYPE				
A	METALUX	2HB 654T5 G AWG UNVL EBT2	6	54T5HO	120	CH	MULTILEVEL CONTROLLED	
B	METALUX	2GR5-328T5-A-UNV-EBT1	3	F28T5	120	R/TB	2X4 W/ LENS	
C	METALUX	GR5-228T5-A-UNV-EBT1	2	F28T5	120	R/DW	1X4 W/ LEN AND DW KIT (DF14W)	
D	METALUX	2GR5-228T5-A-UNV-EBT1	2	F28T5	120	R/TB	2X4 W/ LENS	
E	LUMARK	MHIP-C-175-120V-LL-BK	1	INCL.	120	W	EXTERIOR CUTOFF LIGHTING	
F	METALUX	DI-232-120V-EBB1-U	2	32WT8	120	CH	MOUNT 12' A.F.F	
G	PORTFOLIO	C7042 E 7450 GPH WF	1	42 TIT	120	R/DW	POTLIGHT	
H	CORELITE	RO-WP-2T5-1C-UNV-AC120-ST	2	54WT5	120	CH	MOUNT	
Md	PORTFOLIO	HD6 6700 WB	1	100 A21	120	R/TB	DIMMABLE DOWNLIGHT	
P	HALO	M700T 648S 1773P	1	HPS	120	R	POTLIGHT	

NOTES: ALL FLOURESCENT LAMP ARE TO BE 3500 K AND A MINIMUM 82 CRI UNLESS NOTED OTHERWISE.

S = SURFACE
 R = RECESSED
 C = CEILING
 W = WALL
 V = VALANCE
 P = PENDANT
 TB = T-BAR
 DW = DRYWALL
 CH = CHAIN

PANEL: 2M VOLTAGE: 120/208 BUS: 225A PHASE: 3 WIRE: 4

DESCRIPTION	LOAD WATTS	BKR SIZE	CIRCUIT	BKR SIZE	LOAD WATTS	DESCRIPTION		
FURNACE MECH. RM. (F-1A)	1920	40	1	2				
FURNACE MECH. RM. (F-1B)	1920	40	3	4	25 3P	5441	OUTDR. CONDENSER UNIT (CU-3)	
FURNACE MECH. RM. (F-2A)	1920	40	5	6				
FURNACE MECH. RM. (F-2B)	1920	40	7	8				
FURNACE MECH. RM. (F-3)	1176	15	9	10	25 3P	5441	OUTDR. CONDENSER UNIT (CU-4)	
FURNACE MECH. RM. (F-4)	1176	15	11	12				
GYM CEILING FAN (CF1, CF3)	1200	15	13	14	15	1000	BASEBD. W. BRM. 108 (EBB1-1)	
GYM CEILING FAN (CF2, CF4)	1200	15	15	16	2P			
HRV-1	800	15	17	18	15	2P	1500	BASEBD. OFFICE. 105 (EBB1-1)
OUTDR. CONDENSER UNIT (CU-1A)	6702	30 3P	19	20	40 2P	6000	FORCE. FL. VESTI. 100 (EFFH-1)	
OUTDR. CONDENSER UNIT (CU-1B)	6702	30 3P	21	22	15		SPARE	
OUTDR. CONDENSER UNIT (CU-1B)	6702	30 3P	23	24	15		SPARE	
OUTDR. CONDENSER UNIT (CU-2A)	6702	30 3P	25	26	15		SPARE	
OUTDR. CONDENSER UNIT (CU-2A)	6702	30 3P	27	28	15		SPARE	
OUTDR. CONDENSER UNIT (CU-2A)	6702	30 3P	29	30	15		SPARE	
OUTDR. CONDENSER UNIT (CU-2B)	6702	30 3P	31	32			SPACE	
OUTDR. CONDENSER UNIT (CU-2B)	6702	30 3P	33	34			SPACE	
OUTDR. CONDENSER UNIT (CU-2B)	6702	30 3P	35	36			SPACE	
OUTDR. CONDENSER UNIT (CU-2B)	6702	30 3P	37	38			SPACE	
OUTDR. CONDENSER UNIT (CU-2B)	6702	30 3P	39	40			SPACE	
OUTDR. CONDENSER UNIT (CU-2B)	6702	30 3P	41	42			SPACE	
HTG.	8.5KW	LTG.	MTR.	MISC.	50.92KW	TOTAL	59.42KW	

PANEL: 2P VOLTAGE: 120/208 BUS: 400A PHASE: 3 WIRE: 4

DESCRIPTION	LOAD WATTS	BKR SIZE	CIRCUIT	BKR SIZE	LOAD WATTS	DESCRIPTION	
GYM RECEPTACLES	900	20	1	2	20	1920	SCOREBOARD (FUTURE)
GYM RECEPTACLES	900	20	3	4	15		SPARE
GYM RECEPTACLES	900	15	5	6	20	1920	SCOREBOARD (FUTURE)
STORAGE RECEPTACLES	900	15	7	8	15	600	MENS WASHROOM RECEPTACLES
ELECTRICAL ROOM RECEPTACLES	900	20	9	10	15	3328	HAND DRYER
BAR 110 RECEPTACLES	1920	20	11	12	2P		
BAR 110 RECEPTACLES	1920	20	13	14	15		HAND DRYER
BAR 110 GFI RECEPTACLES	1920	20	15	16	2P	3328	
BAR 110 GFI RECEPTACLES	1920	20	17	18	15	600	WOMENS WASHROOM RECEPT.
BAR 110 RECEPTACLES	600	15	19	20	15	900	MPR 106 GFI RECEPTACLE
CANTEEN 109 GFI RECEPTACLES	1920	20	21	22	15	900	MPR 106 RECEPTACLE
CANTEEN 109 GFI RECEPTACLES	1920	20	23	24	15	900	MPR 106 RECEPTACLE
CANTEEN 109 RECEPTACLES	1920	20	25	26	15	1440	OFFICE 105 RECEPTACLE
CANTEEN 109 RECEPTACLES	1920	20	27	28	15	1440	MOTORIZED DOOR
CANTEEN 109 RECEPTACLES	1920	20	29	30	15	1440	MOTORIZED DOOR
CANTEEN 109 RECEPTACLES	1920	20	31	32	20	1920	LOBBY 101 RECEPTACLES
CANTEEN 109 RECEPTACLES	1920	20	33	34	20	1920	LOBBY 101 RECEPTACLES
LOBBY 103 RECEPTACLES	900	15	35	36	20	1920	GYM CURTAIN (FUTURE)
MPR MICROWAVE	1920	20	37	38	15	200	OUTDOOR RECEPTACLES GFI (1R)
REFRIDGERATOR IN BAR 110	1920	20	39	40	15		SPARE
SPARE		15	41	42			SPACE
HTG.	6.66KW	LTG.	MTR.	MISC.	50.12 KW	TOTAL	56.78 KW

PANEL: 2P VOLTAGE: 120/208 BUS: 400A PHASE: 3 WIRE: 4

DESCRIPTION	LOAD WATTS	BKR SIZE	CIRCUIT	BKR SIZE	LOAD WATTS	DESCRIPTION	
MOTORIZED DOOR	1440	15	43	44		SPACE	
SPARE		15	45	46		SPACE	
SPARE		15	47	48		SPACE	
SPARE		15	49	50		SPACE	
SPARE		15	51	52		SPACE	
SPARE		15	53	54		SPACE	
SPARE		15	55	56		SPACE	
SPARE		15	57	58		SPACE	
SPARE		15	59	60		SPACE	
SPARE		15	61	62		SPACE	
SPARE		15	63	64		SPACE	
SPARE		15	65	66		SPACE	
SPARE		15	67	68		SPACE	
SPARE		15	69	70		SPACE	
SPARE		15	71	72		SPACE	
SPARE		15	73	74		SPACE	
SPARE		15	75	76		SPACE	
SPARE		15	77	78		SPACE	
SPARE		15	79	80		SPACE	
SPARE		15	81	82		SPACE	
SPARE		15	83	84		SPACE	
HTG.	6.66KW	LTG.	MTR.	MISC.	50.12 KW	TOTAL	56.78 KW

NO.	REVISION	DATE	BY
4	GENERAL REVISION	04/08/08	TT
3	ISSUED FOR BID OPPORTUNITY	03/27/08	TT
2	ISSUED FOR 90% REVIEW	02/07/08	TT
1	ISSUED FOR 75% REVIEW	01/22/08	TT
0	ISSUED FOR 50% REVIEW	12/05/07	TT

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THIS DRAWING SHALL NOT BE SCALED. FOLLOW GIVEN DIMENSIONS ONLY.

THE CONTRACTOR SHALL SATISFY HIMSELF THAT ALL DIMENSIONS AND INFORMATION SHOWN ARE CORRECT.

BEFORE COMMENCEMENT OF WORK REPORT ANY DISCREPANCIES TO THE ARCHITECT.

VARIATIONS AND MODIFICATIONS TO WORK SHOWN WILL NOT BE ALLOWED WITHOUT WRITTEN PERMISSION OF THE ARCHITECT.

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APEGM
 Certificate of Authorization
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 No. 1918 Expiry: April 30, 2008

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PROJECT TITLE
 NORBERRY-GLENLEE COMMUNITY CENTRE EXPANSION
 26 MOLGAT AVENUE WINNIPEG, MB

SHEET TITLE
 ELECTRICAL SCHEDULES

DRAWN BY OR
CHECKED BY TT
PROJECT NUMBER 06-017

SCALE
 AS NOTED
 DATE 04/08/08
 REVISION 4

SHEET NUMBER
 E-6.0