



- NOTES:**
- THE CONTRACTOR SHALL ARRANGE AND CO-ORDINATE WITH MANITOBA HYDRO FOR NEW SERVICE INSTALLATION. THE COMPLETE INSTALLATION SHALL BE TO THE FULL SATISFACTION OF UTILITIES. PAY ALL HYDRO CHARGES.
 - THE CONTRACTOR SHALL ARRANGE W/ HYDRO, CITY AND CONTRACTOR FOR SWITCHING OVER OF EXISTING 100A U/G POWER SERVICE TO NEW 200A U/G SERVICE FOR PROPER PHASING OF ALL WORK DURING AFTER HOURS OPERATION. MINIMIZE SERVICE INTERRUPTION.
 - THE CONTRACTOR SHALL CO-ORDINATE W/ HYDRO FOR DISCONNECTION & REMOVAL OF EXISTING 100A U/G SERVICE.
 - THE CONTRACTOR SHALL PROVIDE ALL TRENCHING AND BACKFILLING FOR POWER WIRING. ALL WIRING SHALL BE INSTALLED A MINIMUM OF 36" BELOW GRADE.
 - THE CONTRACTOR SHALL ARRANGE AND CO-ORDINATE WITH M.B. HYDRO FOR EXACT LOC. OF W.P. CSTE PRIOR TO TRENCHING.
 - PROVIDE CONDUIT SLEEVES FOR ALL WIRING ENTERING BUILDING. CO-ORDINATE ALL WORK WITH CONTRACT ADMINISTRATOR
 - THE CONTRACTOR SHALL PROVIDE 3/4" THICK PLYWOOD BACKBOARD FOR ALL NEW DIST'N. EQUIPMENT MOUNTING.
 - MIN. I.C. RATING FOR MAIN C.B. SHALL BE 10.0KA. CONFIRM RATING W/ HYDRO PRIOR TO PURCHASING OF EQUIPMENT.

MAINS: 200A

FEEDER	DESCRIPTION	U.I.	V.D.P. BREAK		V.D.P. BREAK	F.U.	DESCRIPTION	FEEDER
#12	LIGHTS	1	15	-	90	21	DH-1	#3
#12	LIGHTS	2	15	-	2P	22		#3
#12	LIGHTS	3	15	-	15	23	IR-1, IR-2, IR-3, HWT-1	#12
#12	LIGHTS	4	15	-	30	24	PU-1	#10
#12	LIGHTS	5	15	-	2P	25		#10
#12	LIGHTS	6	15	-	30	26	PU-2	#10
#12	EXIT SIGNS	7	15	-	2P	27		#10
#10	RELOCATED EXTERIOR PANEL	8	30	-	15	28	RP-1	#12
#10		9	2P	-	20	29	HRV-1	#12
#12	*WEATHER-PROOF REC.	10	15	-		30	SPACE	
#12	*WEATHER-PROOF REC.	11	15	-		31	SPACE	
#12	*WEATHER-PROOF REC.	12	15	-		32	SPACE	
#12	*WEATHER-PROOF REC.	13	15	-		33	SPACE	
#12	*WEATHER-PROOF REC.	14	15	-		34	SPACE	
#12	*WEATHER-PROOF REC.	15	15	-		35	SPACE	
#12	*WEATHER-PROOF REC.	16	15	-		36	SPACE	
#12	PAPER DISPENSER	17	15	-		37	SPACE	
#12	RECEPTACLES	18	15	-		38	SPACE	
#12	*WEATHER-PROOF REC.	19	15	-		39	SPACE	
#12	FUTURE GAS FIREPLACE	20	15	-		40	SPACE	

NOTES :

- PANEL SHALL BE 120/240V/1Φ/3W SERVICE ENTRANCE RATED, SURFACE MOUNTED TYPE, C/W 1-200A-2P MAIN C.B., DOOR, COVER & KEYS LOCK.
- LOCATE PANEL IN ELEC. MECH. ROOM TO SUIT. CO-ORDINATE FINAL LOCATION WITH CONTRACTOR AND CITY ON SITE PRIOR TO ROUGHING-IN OF PANEL.
- ALL BREAKERS INDICATED WITH AN ASTERISK (*) SHALL BE GFI CLASS "A" TYPE.

MOTOR SCHEDULE

NO.	DESCRIPTION	HP/KW	AMP	VOLT/Φ	CCT. #	C.B.	WIRE	CONTROL
DH-1	DUCT HEATER	16.0KW	66.6	240/1	A21,22	90A-2P	#3	T'STAT./NOTE#5
IR-1	INFRA-RED GAS HTR.	-	-	120/1	A23	15A-1P	#12	T'STAT./NOTE#5
IR-2	INFRA-RED GAS HTR.	-	-	120/1	A23	-	#12	T'STAT./NOTE#5
IR-3	INFRA-RED GAS HTR.	-	-	120/1	A23	-	#12	T'STAT./NOTE#5
PU-1	GRINDER PUMP	2.0HP	12.0	240/1	A24,25	30A-2P	#10	MAG/HOA
PU-2	GRINDER PUMP	2.0HP	12.0	240/1	A26,27	30A-2P	#10	MAG/HOA
HWT-1	HOT WATER TANK (GAS)	-	-	120/1	A23	15A-1P	#12	INTEGRAL
RP-1	RECIRC. PUMP	FR. HP	-	120/1	A28	15A-1P	#12	MANUAL SW.
HRV-1	HEAT RECOVERY VENTILATOR	2x1/4HP	8.1	120/1	A29	20A-1P	#12	TIMER/NOTE#6
FU-1	EXISTING FURNACE	-	-	-	-	-	-	NOTE #7

NOTES :

- THE CONTRACTOR SHALL REFER TO MECH. DRAWINGS FOR EXACT MOTOR LOCATIONS. CONFIRM ACTUAL EQUIPMENT RATINGS, SIZES AND LOCATIONS PRIOR TO ROUGHING-IN OF WIRING AND C.B.'S. SIZE OVERLOADS ACCORDINGLY. REPORT ANY DISCREPANCIES OR SUBSTITUTIONS TO CONTRACT ADMINISTRATOR PRIOR TO WIRING INSTALLATION AND CONNECTIONS. (REFER TO ACTUAL EQUIPMENT NAMEPLATES).
- THE CONTRACTOR SHALL REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS TO ESTABLISH ALL 120V AND LOW VOLTAGE CONTROL WORK AND WIRING BY THE CONTRACTOR
- PROVIDE DISCONNECT SWITCHES FOR EQUIPMENT AS REQUIRED BY CODE.
- PROVIDE ALL STARTERS FOR EQUIPMENT AS REQUIRED. CONFIRM REQUIREMENTS W/ MECH. SUPPLIER.
- ALL THERMOSTATS SHALL BE SUPPLIED BY DIV. 15 AND WIRED AND CONNECTED BY THE CONTRACTOR REFER TO MECH. DRAWINGS FOR LOCATION AND SCOPE.
- TIME CLOCK SHALL BE SUPPLIED BY DIV. 15 AND WIRED AND CONNECTED BY THE CONTRACTOR PROVIDE 120V CIRCUIT FOR TIMER. REFER TO MECH. DRAWINGS FOR LOCATION AND SCOPE.
- THE CONTRACTOR SHALL EXTEND, RE-WIRE AND RE-CONNECT RELOCATED GAS FURNACE "FU-1". PROVIDE PROPER CIRCUIT BREAKER TO NEW PANEL AS REQUIRED. CONFIRM EXISTING ON SITE.



APEGM
 Certificate of Authorization
 PC Engineering Ltd.
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