



1 POOL HEATING SCHEMATIC  
M-3 SCALE: NTS

**KEY NOTES**

- 1 EXISTING 3" Ø PVC INJECTION LOOP FROM MAIN POOL RETURN.
- 2 BALANCE POOL HEATER INJECTION LOOP TO 68 gpm.
- 3 LOCATE ALL DIALS IN AN ACCESSIBLE AND VISIBLE LOCATION
- 4 HOT WATER HEATING LOOP TO BE COMPLETE WITH THERMAL PIPE INSULATION
- 5 DISCHARGE OVER EXISTING FLOOR DRAINS.
- 6 TEMPERATURE SENSORS IN HOT WATER SUPPLY FROM HEAT EXCHANGER TO POOL, AND SHALL CONTROL PU-1 AND PU-2 THROUGH THE PUMP STARTER PANEL. PU-1 SETPOINT TO BE 86 F. PU-2 SETPOINT TO BE 82 F. BOILERS SHALL BE CONTROLLED BY BUILT-IN TEMPERATURE SENSORS AND SHALL MODULATE STAGES TO MAINTAIN SETPOINTS.

**SYMBOLS**

	SHUT-OFF VALVE
	CONTROL VALVE
	THREE WAY CONTROL VALVE
	CHECK VALVE
	GATE VALVE
	GLOBE VALVE
	PRESSURE REDUCING VALVE
	PRESSURE RELIEF VALVE
	TEMP. & PRESSURE RELIEF VALVE
	BUTTERFLY VALVE
	UNION
	FLANGE
	STRAINER
	BACK FLOW PREVENTOR
	REVERSE PRESSURE BACK FLOW PREVENTOR
	TRIPLE DUTY VALVE
	DIRECTION OF FLOW
	MANUAL AIR VENT
	PRESSURE GAUGE
	THERMOMETER
	IMMERSION TEMPERATURE SENSOR IN TEST WELL
	PUMP

0 07-06-11 FOR TENDER & CONSTRUCTION

No. DATE ISSUANCE  
Seal



**APEGM**  
Certificate of Authorization  
**Epp Siepman Engineering Inc.**  
No. 4035 Date: 2007-06-11

epp siepman engineering inc.  
mechanical engineers  
303-100 Osborne St. South p 204.453.1080  
Winnipeg, MB f 204.453.1335  
R3L 1Y5 ese@eppsiepman.com

Client  
**CITY OF WINNIPEG BUILDING SERVICES**  
Project  
CINDY KLASSEN POOL  
POOL BOILER RECREATION COMPLEX  
BID OPPORTUNITY #434-2007

Sheet Title  
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