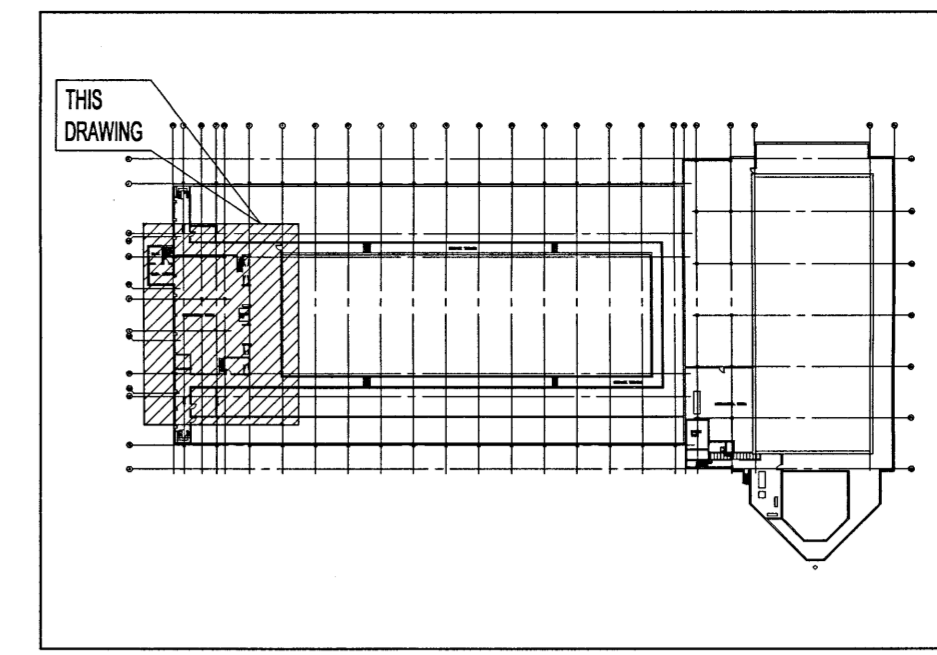


**BOILER ROOM PLAN - NEW PIPING / VENTILATION**  
SCALE: 1:75



**KEY PLAN**  
SCALE: N.T.S.

**GENERAL NOTES:**

- PERFORM WORK IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS, INCLUDING MANITOBA PLUMBING CODE.
- EQUIPMENT LOCATIONS, DUCT, AND PIPE ROUTING INDICATED ON THE DRAWINGS IS APPROXIMATE ONLY. CONFIRM IN THE FIELD. REROUTE DUCTWORK AND PIPING AS REQUIRED TO ELIMINATE FIELD INTERFERENCES WITH BUILDING STRUCTURES, ELECTRICAL, ETC. CONFIRM CHANGES WITH CONTRACT ADMINISTRATOR. COORDINATE WORK WITH ALL SUBTRADES. WHERE DIMENSIONS ARE INDICATED FOR PIPING, DUCTWORK, DUCT SIZES, EQUIPMENT SIZES, ETC. THESE ARE FOR BIDDING PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE TO VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO ORDERING EQUIPMENT AND COMMENCING INSTALLATION WITHOUT EXTRA CHARGES TO THE PROJECT. THE CONTRACTOR IS RESPONSIBLE TO ENSURE ALL EQUIPMENT, DUCTWORK, AND PIPING FITS IN THE SPACE AVAILABLE AND TO MAINTAIN THE GENERAL DESIGN INTENT FOR THE SYSTEMS.
- INFILL ALL PENETRATIONS AFTER REMOVAL OF PIPING, DUCTWORK, ETC. AND FINISH TO MATCH EXISTING.
- CONFORM TO CSA B149, 1-15 NATURAL GAS AND PROPANE INSTALLATION CODE, CSA B51-14 BOILER, PRESSURE VESSEL, AND PRESSURE PIPING CODE AND REQUIREMENT OF THE OFC.

**KEYNOTES:**

- INSTALL NEW DOMESTIC WATER BOILERS ACCORDING TO MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE NATURAL GAS PIPING (TYP.)
- RUN NEW BOILER VENTS UP TO ROOF. FIRE SEAL VENT PENETRATION AT THE TOP AND BOTTOM OF SHAFT UTILIZING UL-C LISTED FIRE STOP. PROVIDE SUPPORTS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- INSTALL NEW DOMESTIC WATER STORAGE TANKS AS SHOWN. PROVIDE PIPING CONNECTIONS (TYP.)
- PROVIDE NEW POT FEEDER FILTER AND SIGHT GLASS. CONNECT TO EXISTING TAPPINGS.
- EXISTING HYDRONIC PIPING STARTING FROM MAIN GATE VALVES DOWN TO GRID 2A TO WEST WALL ARE CURRENTLY UNINSTALLED. INSULATE ALL UNINSULATED PIPING, INCLUDING PIPE RISER CONNECTING TO THE PUMPS, IN THIS AREA. INSULATION CONTRACTORS BIDDING THE JOB ARE REQUIRED TO VISIT THE SITE TO OBTAIN INSULATION SCOPE PRIOR TO SUBMITTING THEIR BID.
- INSTALL NEW EXHAUST FAN ABOVE OFFICE CEILING. CUT EXISTING CEILING AT LOCATION OF PREVIOUS GRILLE TO SUIT INSTALLATION OF FAN. PROVIDE SUPPORTS FROM OFFICE CEILING STRUCTURAL MEMBERS.
- MOUNT NEW INDOOR AIR CONDITIONING UNIT (AC-1) ON WALL INSIDE OFFICE. RUN CONDENSATE DRAIN LINE TO FLOOR DRAIN BELOW OFFICE.
- MOUNT NEW CONDENSING UNIT (CU-1) ON EXTERIOR OF OFFICE WALL. MAINTAIN MINIMUM CLEARANCES AROUND UNIT AS RECOMMENDED BY MANUFACTURER. PROVIDE WALL MOUNT BRACKETS. RUN INSULATED REFRIGERANT LINES TO AC-1.

COMBUSTION AIR REQUIREMENT		
EQUIPMENT	UNIT RATE (L/s)	TOTAL (L/s)
HEATING BOILERS (B1 TO B6)	307	1842
DOMESTIC WATER BOILERS (DWB-1 & DWB-2)	135	270
<b>TOTAL (L/s)</b>		<b>2,112</b>

**NOTES:**

THESE DRAWINGS SHALL NOT BE SCALED.

THE CONTRACTOR SHALL VISIT THE SITE AND SATISFY ONESELF ALL DIMENSIONS, DATUM, AND DETAILED INFORMATION SHOWN ARE CORRECT.

THE CONTRACTOR IS TO REVIEW AND COORDINATE ALL ARCHITECTURAL, MECHANICAL, ELECTRICAL AND STRUCTURAL DRAWINGS FOR ADDITIONAL OPENINGS THROUGH FLOORS, WALLS, AND CEILINGS FOR DUCT, PIPE & ELECTRICAL RISERS AND ALL OPENINGS NOT SHOWN ON DRAWINGS.

ALL OPENINGS THROUGH THE FIRE SEPARATIONS AS A RESULT OF THE WORK OF THIS CONTRACT ARE TO BE FIRE STOPPED AND SEALED WITH UL-C APPROVED FIRE STOPPING TO MAINTAIN THE INTEGRITY OF THE FIRE SEPARATION, AND PROVIDE AND SMOKE-TIGHT BARRIER.

ALL PRODUCTS AND MATERIALS TO BE USED AND INSTALLED SHALL CONFORM WITH MANUFACTURER'S SPECIFICATIONS & APPLICABLE CODES.

THE CONTRACTOR SHALL BE RESPONSIBLE TO PATCH AND MAKE GOOD ALL EXISTING CONSTRUCTION AFFECTED BY THE REMOVAL OF ALL ITEMS FORMING THE PART OF THE RENOVATION WORK.

WHERE NEW FLOORING AND BASE IS TO BE INSTALLED IN EXISTING AREAS (REFER TO FLOOR PLAN AND ROOM SCHEDULE) THE EXISTING FLOORING SURFACE AND BASE MUST BE REMOVED, UNLESS OTHERWISE NOTED. ALL FLOOR SURFACES SHALL BE PREPARED IN ACCORDANCE TO MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION OF NEW FLOOR.

WHERE PAINTING OF EXISTING WALLS IS INDICATED ON THE ROOM SCHEDULE, THESE WALLS MUST BE CLEANED OF ANY EXISTING WALL COVERING, PATCHED & PREPARED TO ACCEPT NEW MATERIAL, UNLESS OTHERWISE NOTED.

**LEGEND:**

- NEW EQUIPMENT/PIPING
- EXISTING EQUIPMENT/PIPING TO REMAIN
- DCW DOMESTIC COLD WATER
- DHW DOMESTIC HOT WATER
- DHW-R DOMESTIC HOT WATER RETURN
- HWS HOT WATER SUPPLY
- HWR HOT WATER RETURN
- SAN SANITARY
- FD FLOOR DRAIN
- NG NATURAL GAS
- AP AIR PURGE
- B BOILER
- EB- ELECTRIC BOILER
- PU- PUMP
- HWT- HOT WATER TANK
- HX- HEAT EXCHANGER
- Ⓢ 1.5 HR FIRE DAMPER CW ACCESS DOOR

No.	REVISION/DESCRIPTION	BY	DATE
1	RE-ISSUED FOR TENDER	PS	16.12.14
0	ISSUED FOR TENDER	PSS	16.11.28

SEAL

DRAWN: ML  
 CHECKED: [initials]  
 DESIGNED: MAF  
 APPROVED: [initials]  
 DATE: [blank]  
 USER APPROVAL: [blank]

**THE CITY OF WINNIPEG**  
 PLANNING, PROPERTY AND  
 DEVELOPMENT DEPARTMENT  
 MUNICIPAL ACCOMMODATIONS DIVISION  
 3-65 GARRY STREET, R3C 4K4

PROJECT:  
**REPLACEMENT OF  
 DOMESTIC HOT WATER  
 SYSTEM AT PAN AM POOL**  
 25 POSEIDON BAY

SHEET TITLE

**MECHANICAL  
BOILER ROOM PLAN  
NEW PIPING / VENTILATION**

SCALE AS SHOWN	PROJECT No: 16-0107-026	SHEET No: <b>M02</b>
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SCALE VERIFIED BY: PS

