



LOCATE COMBUSTION AIR INTAKE HOODS SERVING NEW BOILERS ABOVE ELECTRICAL CONDUIT

1 COMBUSTION AIR INTAKE
M03 NTS

50ø SANITARY VENT THROUGH ROOF



2 EXISTING MECHANICAL ROOM
M03 NTS

INSULATED 100ø COMBUSTION AIR DUCT THROUGH SIDEWALL TYPICAL OF TWO.

100ø FLUE VENT THROUGH ROOF. TYPICAL OF TWO.

COORDINATE WITH OWNER NEW LOCATIONS OF OTHER WALL-MOUNTED EQUIPMENT

RELOCATE EXISTING FIRE EXTINGUISHER AND MOUNTING BRACKET

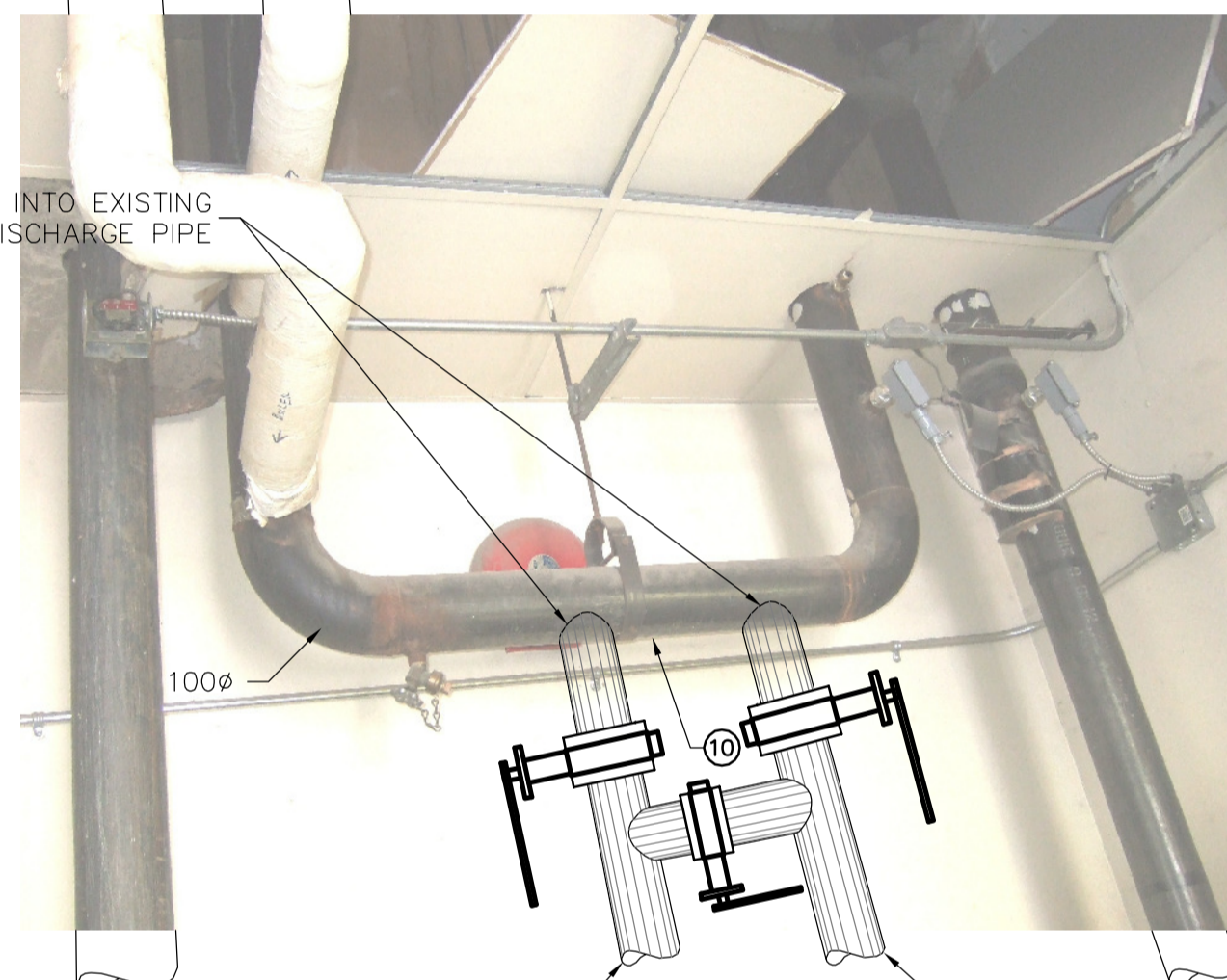
CORE THROUGH CONCRETE FLOOR FOR BOILER COMBUSTION AND FLUE VENTING - TYPICAL OF FOUR.



REMOVE AND REPLACE DEFECTIVE CHECK VALVE

3 CHECK VALVE REPLACEMENT
M03 NTS

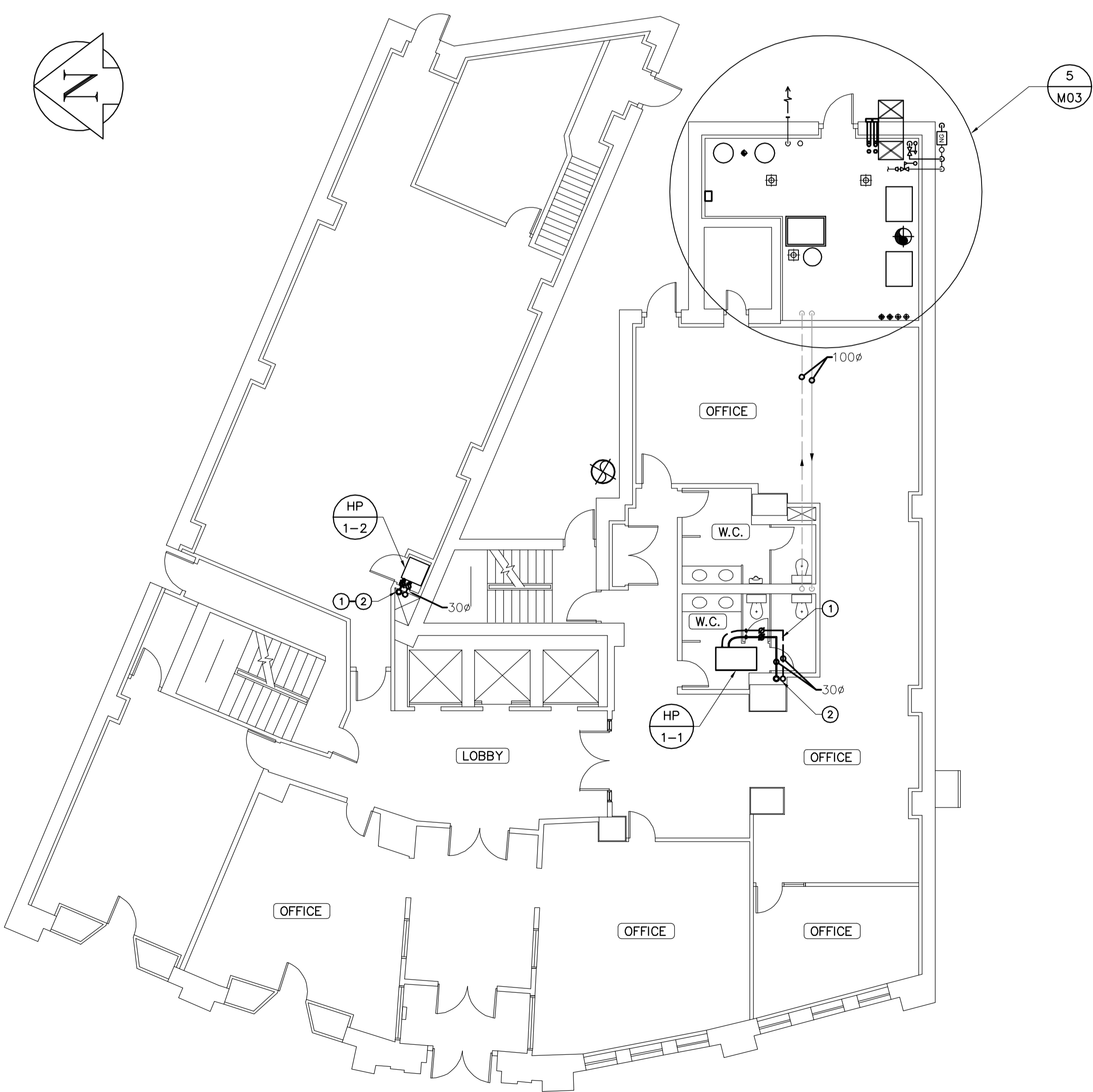
NEW 75ø PIPE TO TIE INTO EXISTING 100ø FLUID COOLER DISCHARGE PIPE



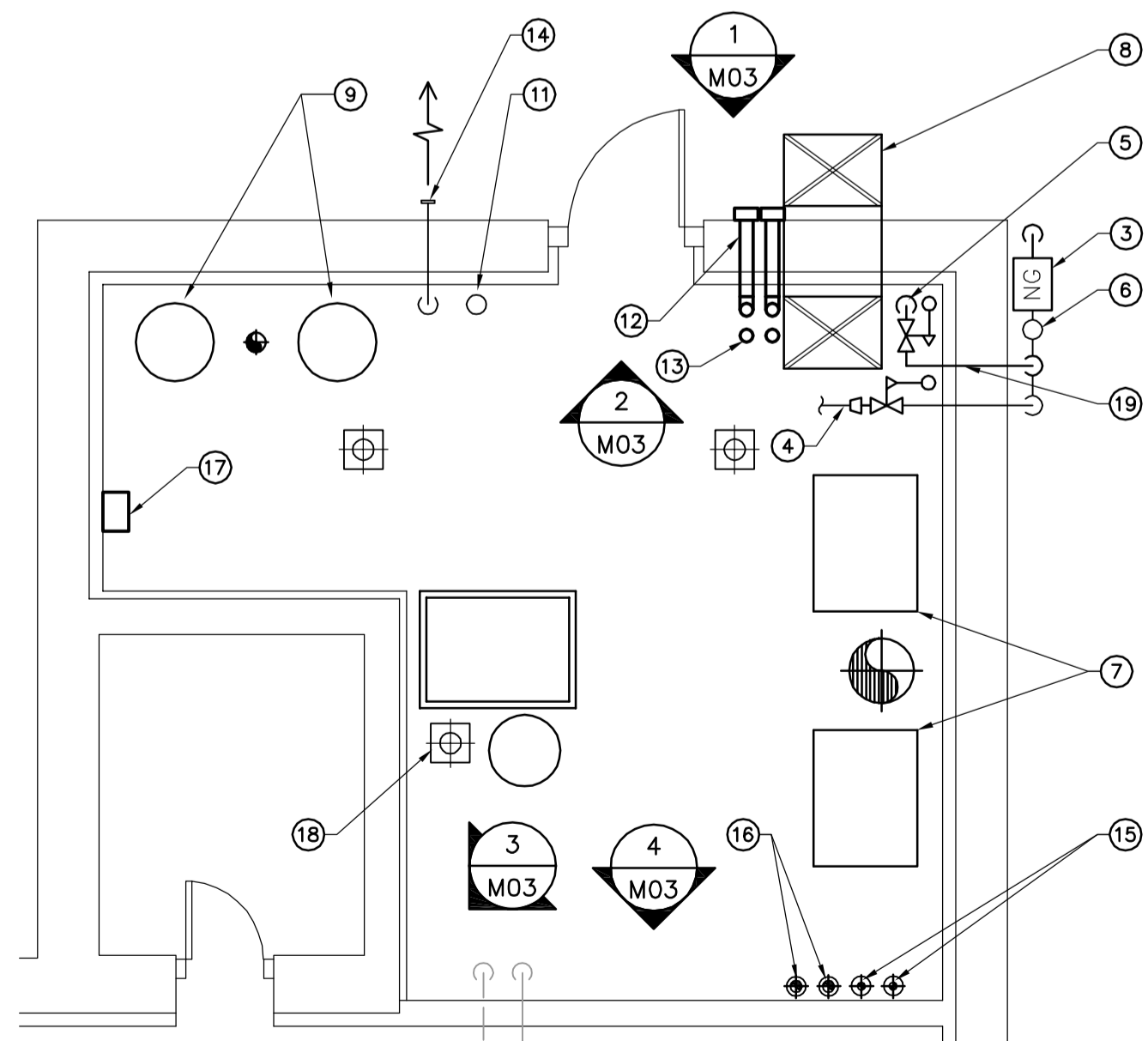
NEW 75ø CHWS PIPE DOWN TO NEW MECHANICAL ROOM BELOW.

NEW 75ø CHWR PIPE FROM NEW MECHANICAL ROOM BELOW.

4 FLUID COOLER PIPE TIE-IN
M03 NTS



MAIN FLOOR -MECHANICAL PLAN
SCALE: 1:100



5 EXISTING MECHANICAL ROOM DETAIL
M03 1:50

GENERAL NOTES

- COORDINATE WITH OTHER TRADES SO AS TO PREVENT CONFLICTS.

AECOM

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APEGM
Certificate of Authorization
Earth Tech Canada Inc.
No. 730 Expiry: April 30, 2009

CONSTRUCTION NOTES

- CAP EXISTING HYDRONIC SUPPLY AND RETURN BRANCHES PREVIOUSLY SERVING HEAT PUMPS. CONNECT NEW HWS AND HWR BRANCHES TO HEAT PUMP c/w NEW FLEXIBLE PIPE CONNECTIONS AND BALANCING VALVES.
- NEW HWS AND HWR BRANCHES RISING FROM BASEMENT BELOW TO HEAT PUMP. SIZE AS SHOWN.
- NEW GAS METER (5 PSIG) AT GROUND LEVEL. CONNECT NEW & EXISTING GAS PIPING TO NEW METER.
- EXISTING GAS SERVICE TO EXISTING APPLIANCES IN MECHANICAL ROOM c/w NEW PRESSURE REDUCING STATION. VENT PIPE UP THROUGH ROOF c/w PITCH POCKET.
- 50ø NEW GAS BRANCH DOWN TO NEW BOILERS IN MECHANICAL ROOM BELOW c/w PRESSURE REDUCING STATION. VENT PIPE UP THROUGH ROOF c/w PITCH POCKET.
- EXISTING GAS BRANCH RISING TO EXISTING MAKE-UP AIR UNIT ON MECHANICAL ROOM ROOF.
- EXISTING BOILERS TO REMAIN.
- EXISTING COMBUSTION AIR DUCT TO REMAIN.
- EXISTING HOT WATER HEATERS TO REMAIN.
- NEW CHWS & CHWR PIPE TO BE WITHIN 500mm APART.
- 50ø SANITARY VENT FROM BASEMENT TO GO THROUGH ROOF OF EXISTING MECHANICAL ROOM.
- INSULATED 100ø COMBUSTION AIR INTAKE.
- 100ø FLUE VENT.
- EXISTING VENT AT LOW LEVEL.
- NEW 50ø GWS & GWR PIPE RISING THROUGH MECHANICAL ROOM TO HEATING/COOLING IN EXISTING MAKE-UP AIR UNIT ON ROOF. SEE DWG. M04.
- NEW 75ø CHWS & CHWR SERVING EXISTING FLUID COOLER. SEE DETAIL 4/M03 FOR TIE-IN CONNECTION LOCATION.
- NEW 7.5 HP VFD MOUNTED ON WALL SERVING EXISTING MAKE-UP AIR UNIT ON ROOF.
- SEAL FLOOR AROUND EXISTING FLOOR DRAIN.
- COORDINATE GAS PIPE ROUTING WITH ELECTRICAL PANEL.

0	ISSUED FOR TENDER	DL	2008.11.28
NO.	REVISION/DESCRIPTION	BY	DATE

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DRAWN BY	DL	CHECKED BY	PVL	APPROVED	PVL
DATE	2008.08.31	USER APPROVAL			

CITY OF WINNIPEG
PLANNING, PROPERTY AND
DEVELOPMENT DEPARTMENT
CIVIC ACCOMMODATIONS DIVISION
300 - 65 GARRY ST. R3C 4K4

PROJECT
CONFEDERATION BUILDING
SUPPLEMENTARY HEATING UPGRADES
PHASE 1 - CITY BID OPP. NO. 757-2008
457 MAIN STREET, WINNIPEG, MANITOBA

SHEET TITLE
MAIN FLOOR
MECHANICAL LAYOUT AND DETAILS

SCALE	PROJECT NO.	SHEET NO.
AS SHOWN	105111	M03