

CALL OUT NOTES –

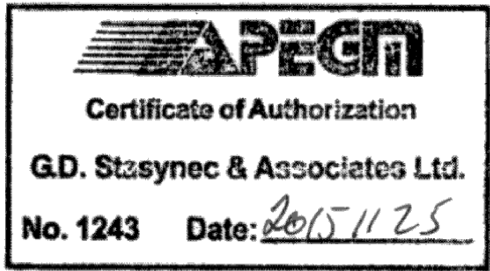
- 24"x18" SUPPLY AIR DUCT FROM RTU-1 ON ROOF.
- 24"x18" RETURN AIR DUCT UP TO RTU-1 ON ROOF.
- 6"Ø EXHAUST WALL CAP.
- 6"Ø EXHAUST WALL CAP.
- EXHAUST AIR DUCT RISER UP TO EXHAUST FAN ON ROOF.
- APPROXIMATE LOCATION OF EXISTING SUPPLY AND RETURN AIR DUCTS FROM EXISTING RTU-1 ON ROOF. FOR EXACT LOCATION AND SIZES SITE VERIFY.
- 8"Ø CHIMNEYS TO EF-4 & EF-5 ON ROOF.
- MOUNT DHWT-1 ON BRACKET ABOVE MOP SINK.

OUTDOOR AIR CALCULATIONS

FOOD AND BEVERAGE SERVICE:
DINING AREA – RESTAURANT
TOTAL AREA: 1,173 SQFT.
TOTAL POPULATION: 83 PEOPLE
OUTDOOR AIR REQUIRED BASED ON AREA:
0.18 CFM/SQFT. X 1,173 SQFT. = 212 CFM
OUTDOOR AIR REQUIRED BASED ON POPULATION:
7.5 CFM/PERSON X 83 PEOPLE = 623 CFM
TOTAL AIR SUPPLIED = 835 CFM
EFFECTIVENESS FACTOR = 0.8
TOTAL OUTDOOR AIR REQUIRED: 1,044 CFM
TOTAL OUTDOOR AIR SPECIFIED: 1,050 CFM

OFFICE/KITCHEN
TOTAL AREA: 704 SQFT.
TOTAL POPULATION: 7 PEOPLE
OUTDOOR AIR REQUIRED BASED ON AREA:
0.18 CFM/SQFT. X 704 SQFT. = 127 CFM
OUTDOOR AIR REQUIRED BASED ON POPULATION:
7.5 CFM/PERSON X 7 PEOPLE = 53 CFM
TOTAL AIR SUPPLIED = 180 CFM
EFFECTIVENESS FACTOR = 0.8
TOTAL OUTDOOR AIR REQUIRED: 225 CFM
TOTAL OUTDOOR AIR SPECIFIED: 225 CFM

1 GROUND FLOOR VENTILATION PLAN
M-1 SCALE: 1/4" = 1' - 0"



Project: CARBONE PIZZA
680 ST. ANNE'S ROAD
WINNIPEG, MANITOBA

Sheet Title:

GROUND FLOOR VENTILATION PLAN

Sheet No./Revision No. 0

M-1 / R-0

Scale: AS SHOWN

File: 20151088

Designed: AI

Drawn: MG

Checked: GDS

Date: NOV 25, 2015

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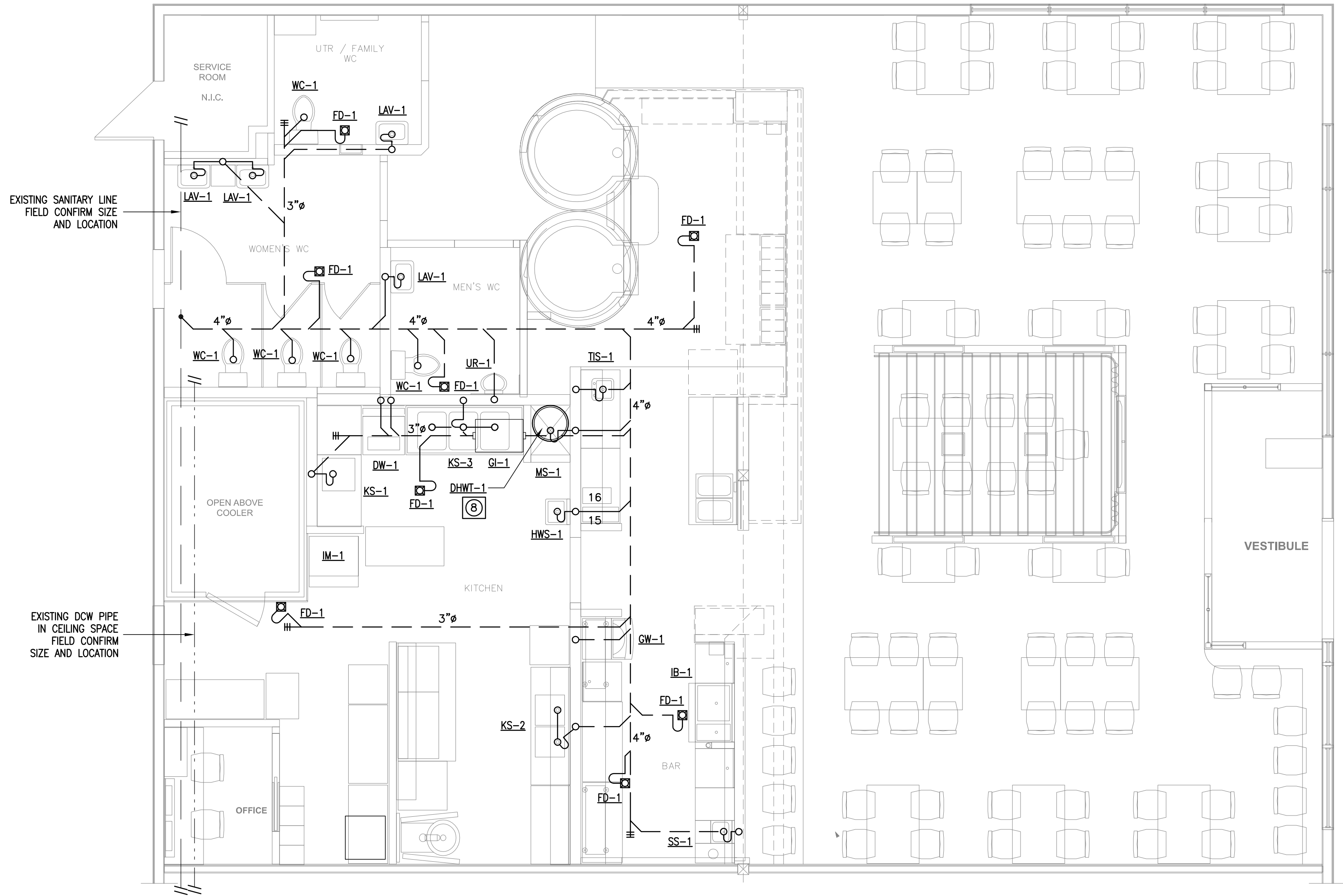
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1 GROUND FLOOR PLUMBING PLAN
M-2 SCALE: 1/4" = 1' - 0"



Project: CARBONE PIZZA
680 ST. ANNE'S ROAD
WINNIPEG, MANITOBA

Sheet No./Revision No. 0

M-2 / R-0

Scale: AS SHOWN

Sheet Title:
GROUND FLOOR PLUMBING PLAN

File: 20151088

Designed: AI

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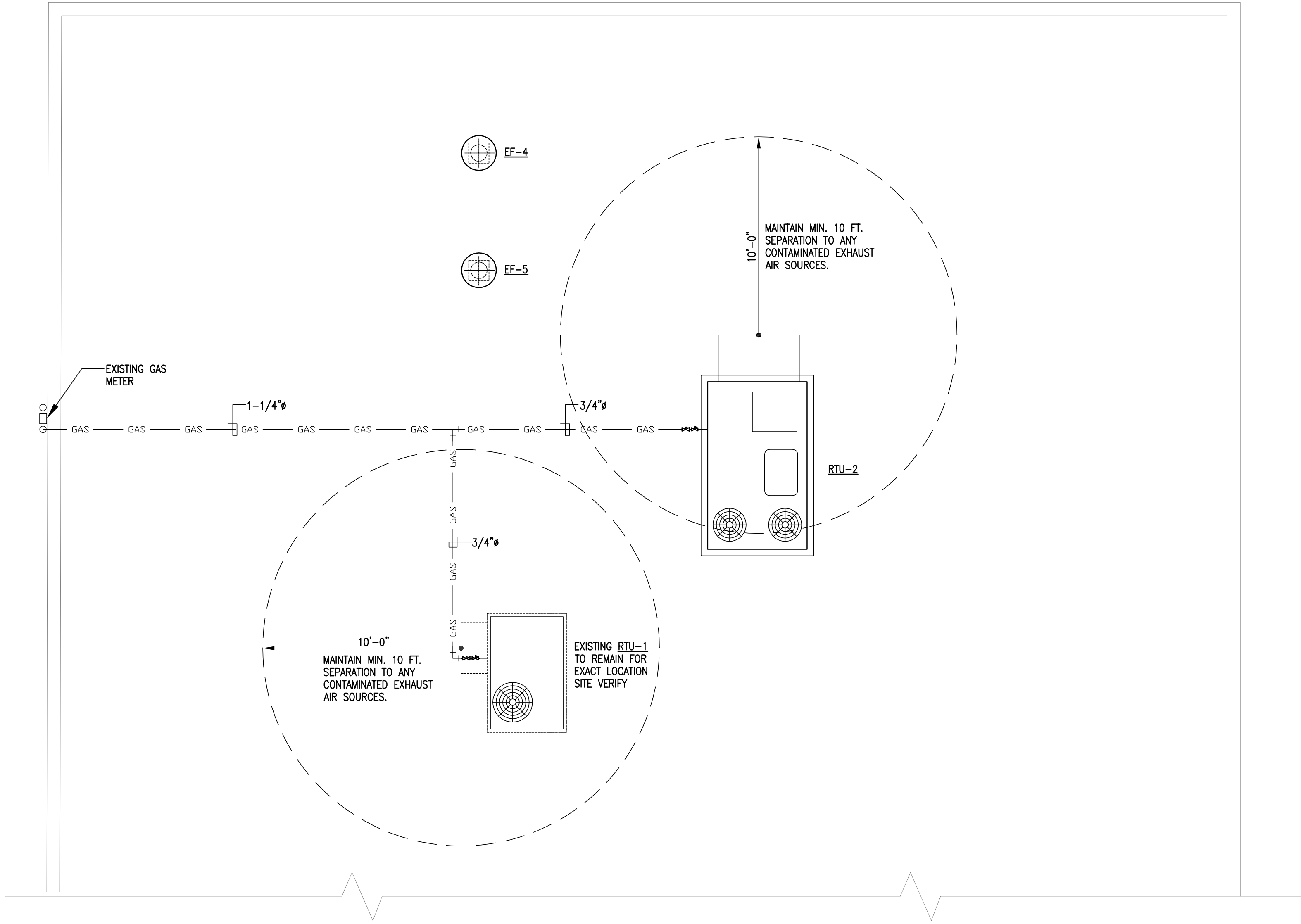
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1 ROOF MECHANICAL PLAN
M-3 SCALE: 1/4" = 1' - 0"



Project: CARBONE PIZZA
680 ST. ANNE'S ROAD
WINNIPEG, MANITOBA

Sheet Title:

MECHANICAL ROOF PLAN

Sheet No./Revision No. 0

M-3 / R-0

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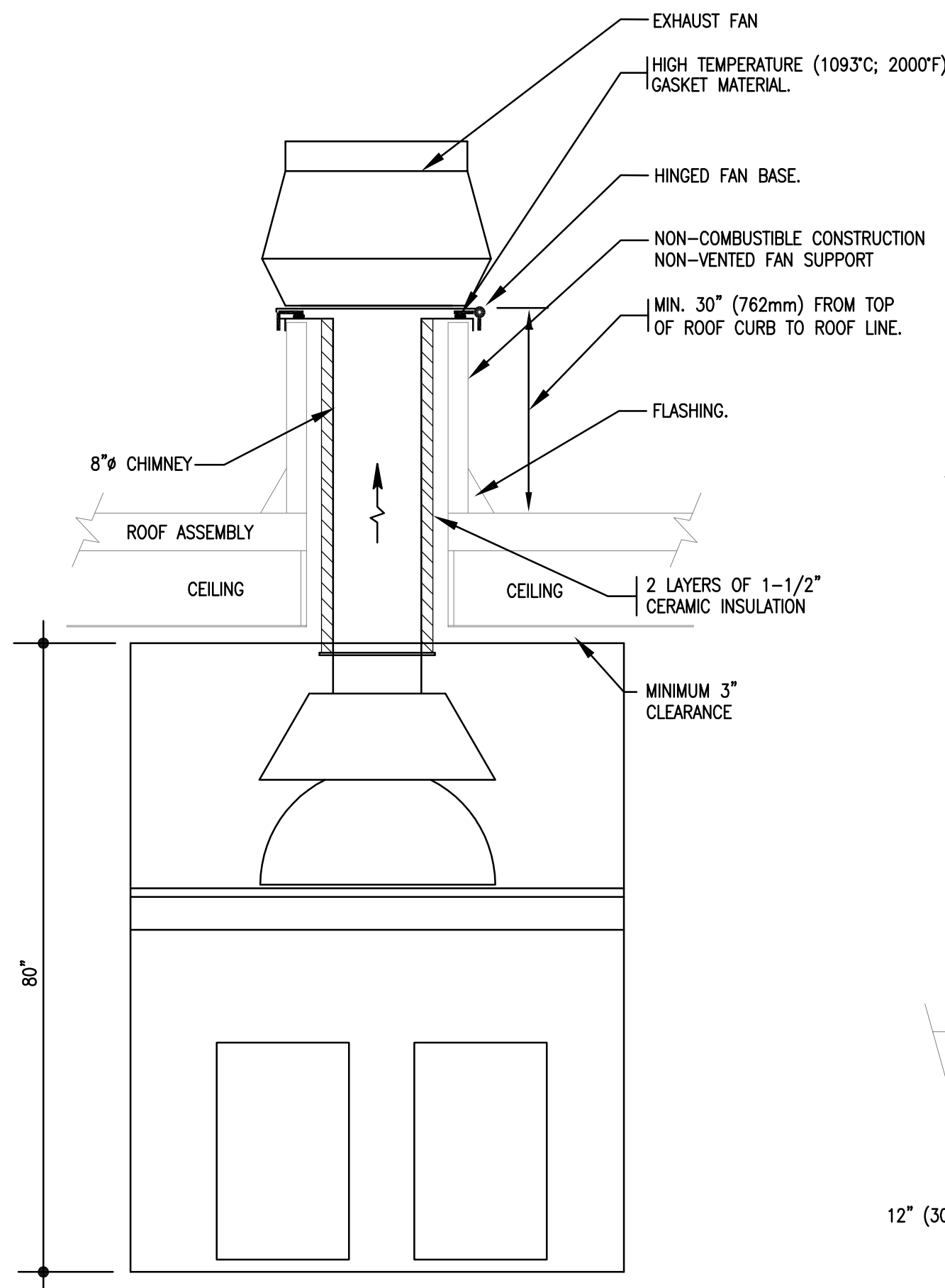
No. 0

Date: NOV. 26, 2015

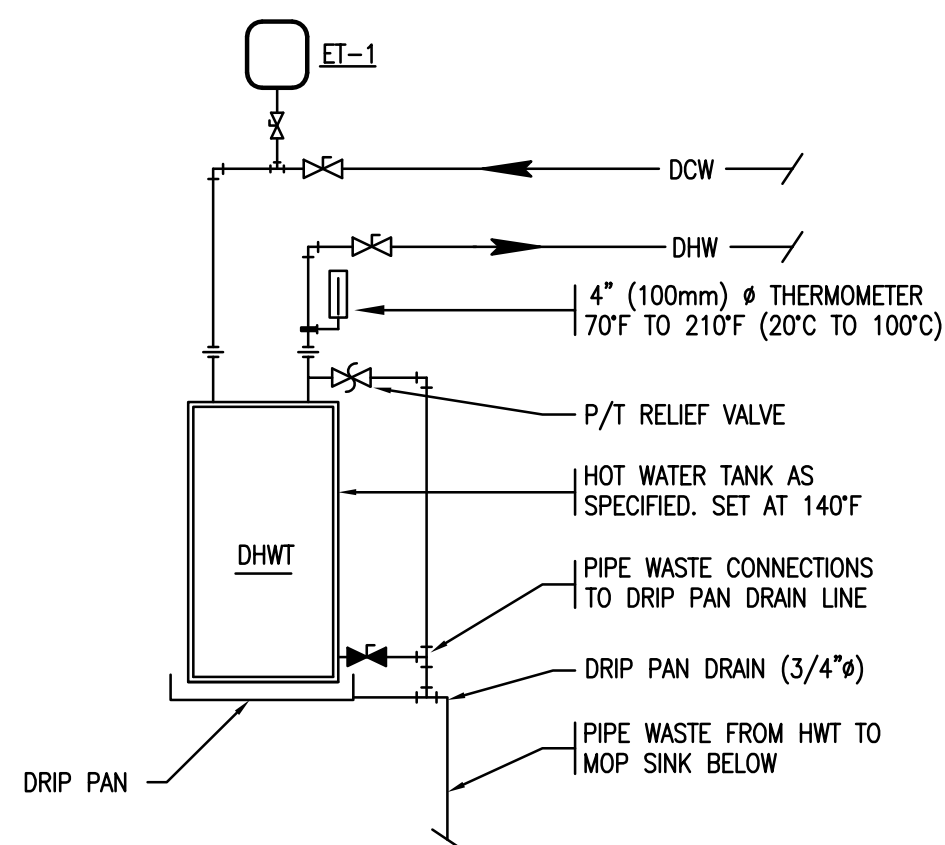
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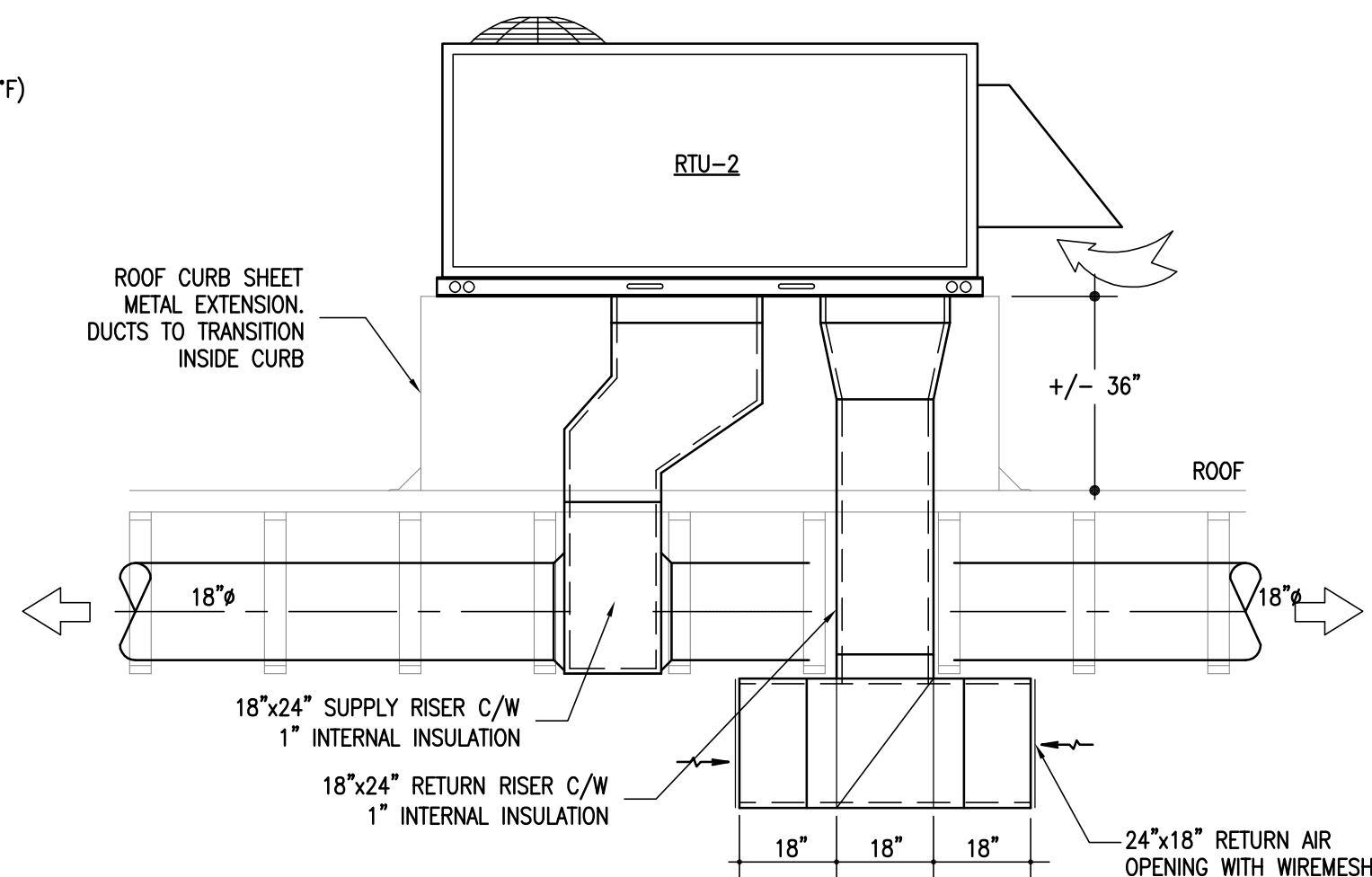




1 DETAIL: EXHAUST FAN AND OVEN
M-4 SCALE: N.T.S.

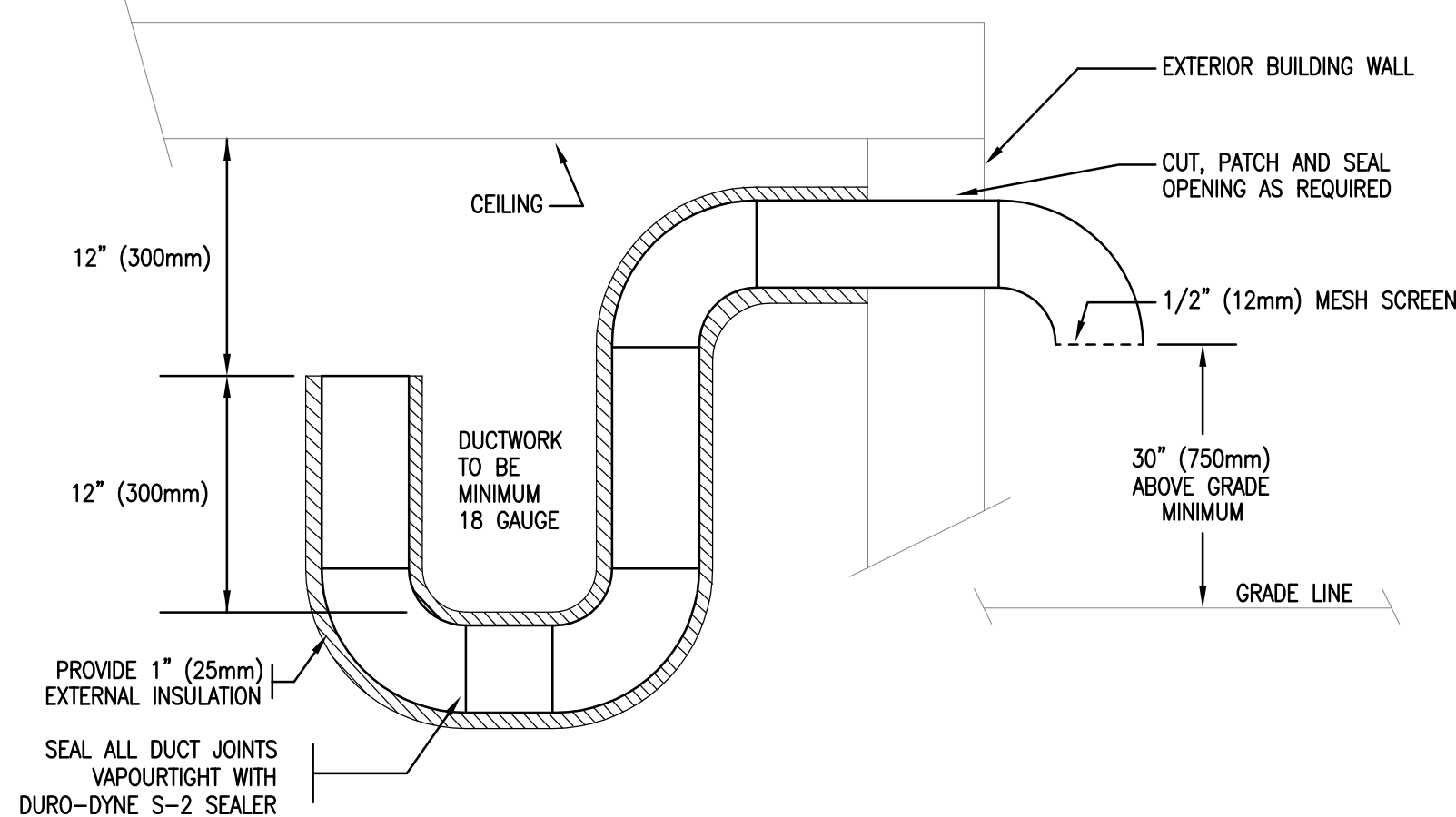


4 DETAIL: HOT WATER TANK CONNECTION
M-4 SCALE: N.T.S.

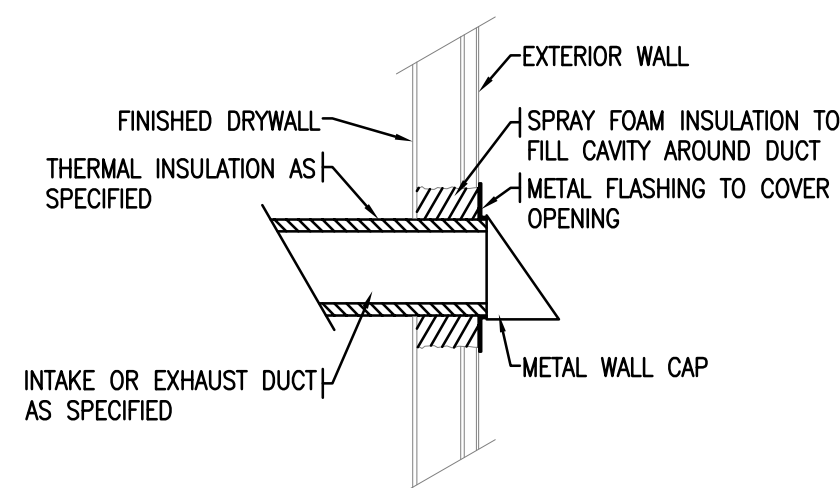


2 DETAIL: RTU-2 INSTALLATION
M-4 SCALE: N.T.S.

GENERAL NOTE:
COMBUSTION AIR INTAKE SHALL NOT TERMINATE
-WITHIN 6' (1800mm) OF A MECHANICAL AIR OUTLET
-WITHIN 3' (900mm) OF A NON-MECHANICAL AIR OUTLET
-ABOVE A GAS METER/REGULATOR ASSEMBLY
-WITHIN 3' (900mm) HORIZONTALLY OF A GAS METER/REGULATOR ASSEMBLY
-WITHIN 6' (1800mm) OF A GAS REGULATOR VENT OUTLET



3 DETAIL: COMBUSTION AIR INTAKE
M-4 SCALE: N.T.S.



5 DETAIL: EXTERNAL WALL PENETRATION
M-4 SCALE: N.T.S.

MATERIALS AND INSULATION

THERMAL INSULATION

DUCT SYSTEMS

SUPPLY AIR DUCTS LOCATED IN INTERIOR SPACES:

- 1" (25MM) FIBERGLAS CANADA AF-530 RFFRK RIGID BOARD INSULATION WITH VAPOR BARRIER. FLEXIBLE INSULATION MAY BE USED FOR ROUND DUCTWORK. ALL JOINTS TO BE OVERLAPPED, STAPLED AND SEALED WITH ALUMINUM TAPE.

COMBUSTION AIR INTAKE AND EXHAUST DISCHARGE DUCTS (MIN. 10' BACK FROM EXTERIOR PENETRATION):

- 2" (50MM) FIBERGLAS CANADA AF-530 RFFRK RIGID FIBER GRASS INSULATION WITH VAPOR BARRIER. FLEXIBLE INSULATION MAY BE USED FOR ROUND DUCTWORK. ALL JOINTS TO BE OVERLAPPED, STAPLED AND SEALED WITH ALUMINUM JACKET.

OVEN EXHAUST DUCTS

- NON-COMBUSTIBLE CERAMIC FIBERS, ULC LISTED, NFPA 96 COMPLIANCE FOR 0" CLEARANCE TO COMBUSTIBLES, INSTALL TO MANUFACTURER'S RECOMMENDATIONS; FIREMASTER OR SIMILAR.

PIPE MATERIALS

DOMESTIC WATER, PLUMBING VENTING, SANITARY DRAINAGE AND STORM DRAINAGE SYSTEMS:

COLD WATER PIPING, RAIN WATER LEADERS, VENT PIPING, DRAINAGE PIPING, SYSTEMS OPERATING UNDER 60°F (15°C):

- PIPES UP TO 2" (50MM) Ø: 1/2" (13MM) PRE-FORMED, FLEXIBLE ELASTOMERIC, CLOSED CELL; PRE-SLIT; SELF STICKING JOINTS; FLAME SPREAD RATING <25, SMOKE DEVELOPED RATING <50; IMCOA OR SIMILAR.

HOT WATER PIPING, SYSTEMS OPERATING OVER 100°F (38°C) TO 180°F (83°C):

- PIPES UP TO 2" (50MM) Ø: 1/2" (13MM) PRE-FORMED, FLEXIBLE ELASTOMERIC, CLOSED CELL; PRE-SLIT; SELF STICKING JOINTS; FLAME SPREAD RATING <25, SMOKE DEVELOPED RATING <50; IMCOA OR SIMILAR, OR 1" (25MM) FIBERGLAS CANADA 850 PRE-FORMED PIPE INSULATION WITH ALL SERVICE JACKET; ALL JOINTS TO BE OVERLAPPED, STAPLED AND SEALED WITH ALUMINUM TAPE.

DRAINAGE AND VENT PIPING:

ABOVE GRADE:

- CAST IRON SOIL PIPE AND FITTINGS OR COPPER TUBE, TYPE DWV WITH SUITABLE FITTINGS
- WHERE PERMITTED BY CODE, PVC OR ABS PIPING SYSTEMS MAY BE USED AS A SUBSTITUTE MATERIAL.

BELOW GRADE:

- PVC, OR CAST IRON SOIL PIPE, CLASS 4000, WITH BELL AND SPIGOT OR MECHANICAL JOINTS,
- WHERE PERMITTED BY CODE, PVC OR ABS PIPING SYSTEMS MAY BE USED AS A SUBSTITUTE MATERIAL.

DOMESTIC HOT AND COLD WATER PIPING

ABOVE GRADE UP TO 2" (50MM) Ø:

- TYPE "L" HARD COPPER WITH WROUGHT OR CAST SOLDERED TYPE FITTINGS.
- PEX-AL-PEX OR PEX CROSS LINKED POLYETHYLENE, CRIMP OR COMPRESSION FITTINGS.
- CPVC SCHEDULE 80, WITH SOLVENT WELDED SOCKET FITTINGS.

BELOW GRADE UP TO 2" (50MM) Ø:

- TYPE "K" SOFT COPPER SEAMLESS TUBING, ONE PIECE FOR LENGTHS UNDER 100 FEET; WITH BRASS FLARE FITTINGS FOR LENGTHS OVER 100 FEET;

FUEL GAS PIPING

UP TO 2" (50MM) Ø:

- SCHEDULE 40 BLACK STEEL WITH BLACK MALLEABLE SCREWED FITTINGS. NORTH AMERICAN MADE PIPE ONLY



<div>Project:</div> <div>CARBONE PIZZA 680 ST. ANNE'S ROAD WINNIPEG, MANITOBA</div>		<div>Sheet No./Revision No. 0</div> <div>M-4 / R-0</div> <div>Scale: AS SHOWN</div>	<div>File:</div> <div>20151088</div>		<div>G.D. Stasynec and Associates Limited</div> <div>Engineering Consultants</div> <div>551 Academy Road Winnipeg, Manitoba Canada, R3N 0E4</div> <div>Telephone: (204) 488-1332 Facsimile: (204) 488-1337 E-mail: stasynec@amethyst.mb.ca</div>				
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