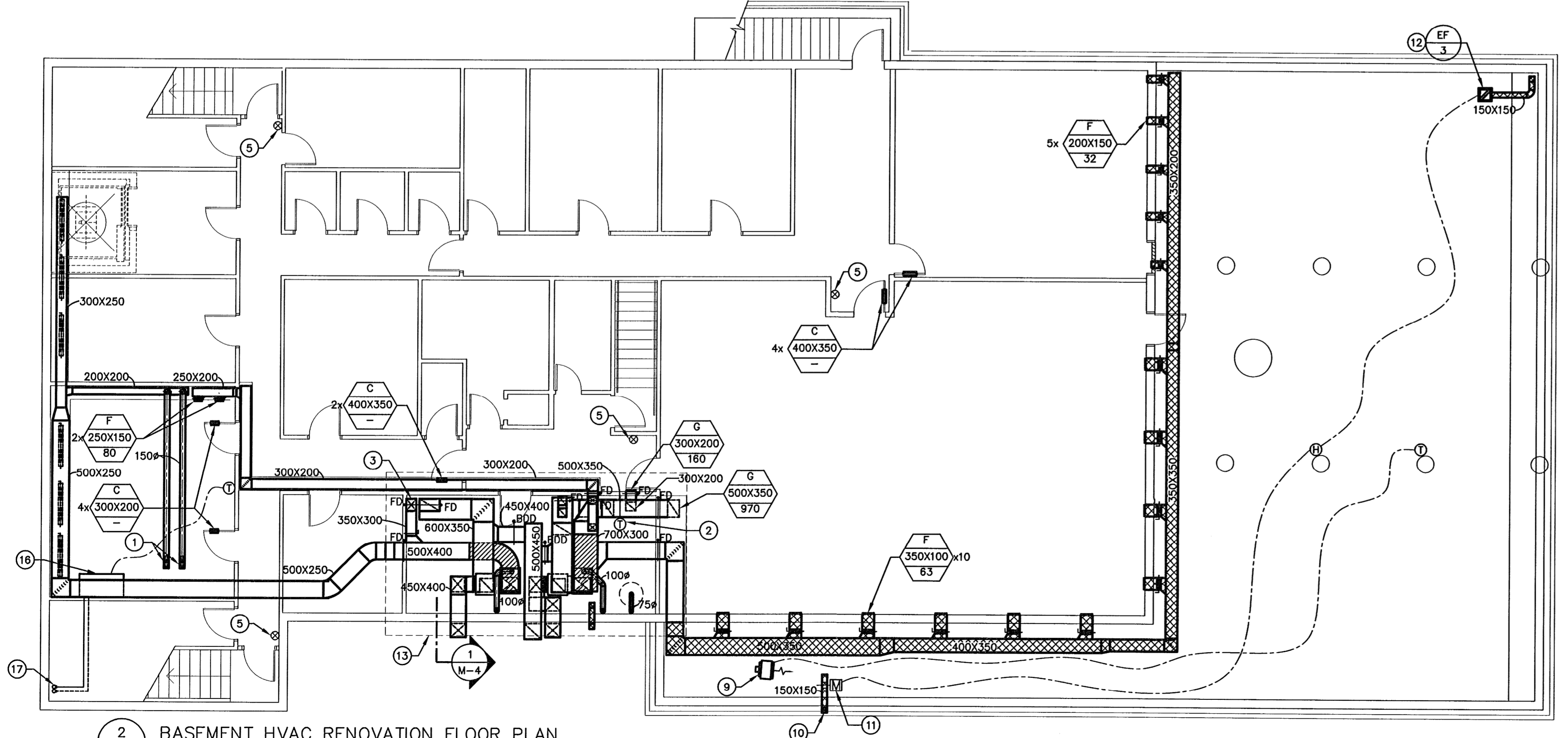


1 MAIN FLOOR HVAC RENOVATION PLAN  
SCALE: 1:100



2 BASEMENT HVAC RENOVATION FLOOR PLAN  
SCALE: 1:100

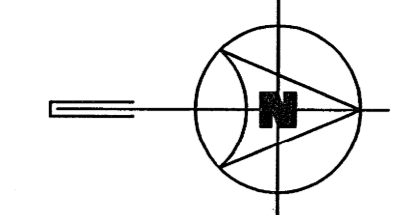
**MAIN FLOOR GENERAL NOTES:**

1. THIS DRAWING IS DIAGRAMMATIC. ALL FINAL DUCTWORK ROUTING TO BE COORDINATED ON SITE BY MECHANICAL CONTRACTOR

**MAIN FLOOR DRAWING NOTES:**

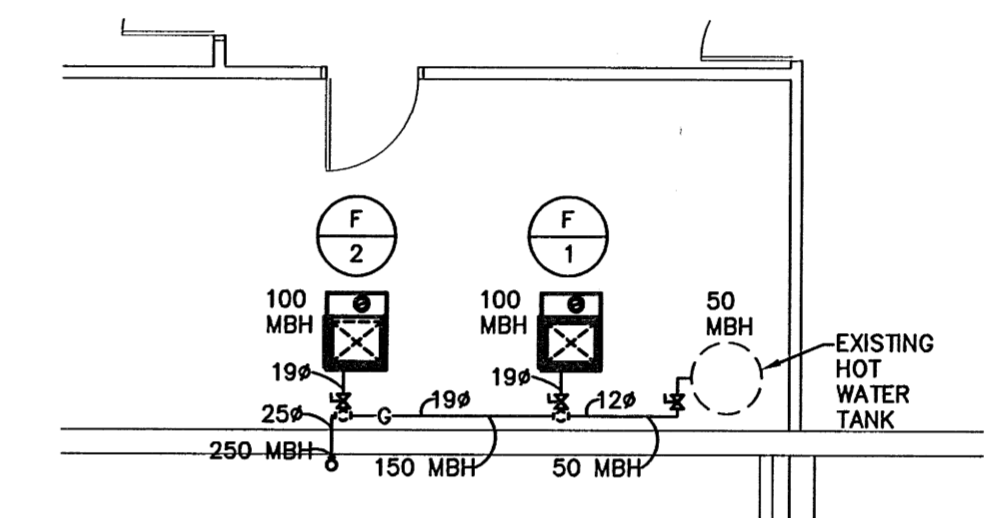
- 1 4 KW ELECTRIC FORCE FLOW SUPPLIED BY AND INSTALLED BY DIVISION 16.
- 2 750 WATT ELECTRIC BASEBOARD C/W INTEGRAL THERMOSTAT SUPPLIED BY AND INSTALLED BY DIVISION 16.
- 3 500 WATT ELECTRIC BASEBOARD C/W INTEGRAL THERMOSTAT SUPPLIED BY AND INSTALLED BY DIVISION 16.
- 4 NEW THERMOSTAT TO BE CONNECTED TO NEW FURNACE (F-2) IN BASEMENT AND WIRED AS PER MANUFACTURER'S RECOMMENDATIONS FOR CURRENT SET-UP.
- 5 NEW FIRE EXTINGUISHER. REFER TO ARCHITECTURAL DRAWINGS FOR FINAL LOCATION AND QUANTITY.
- 6 NEW 600X350 R/A DUCT UP IN ATTIC SPACE TO DROP DOWN TO MECHANICAL ROOM BELOW.
- 7 800X350 R/A DUCT UP IN ATTIC SPACE.
- 8 NEW 350X300 S/A DUCT FROM BASEMENT TO RUN UP INTO ATTIC SPACE.
- 9 EXISTING GAS METER TO REMAIN.
- 10 NEW CEILING FAN (CF-1) IN EXPANDED METAL MESH SCREEN. REFER TO DETAIL #4/M-4.
- 11 NEW 25# GAS LINE DOWN TO BASEMENT MECHANICAL ROOM. REFER TO DETAIL #4/M-3.

- 12 NEW 150X150 CRAWLSPACE AIR INTAKE DUCTWORK TO RISE UP 1200MM ABOVE GRADE LEVEL TO GOOSENECK. REFER TO DETAIL #7/M-4.
- 13 NEW 150X150 CRAWLSPACE EXHAUST DUCT UP THROUGH FLOOR. DUCT TO RISE UP 1200MM ABOVE GRADE LEVEL TO GOOSENECK.
- 14 NEW ROUND DIFFUSER IN EXPANDED METAL MESH CEILING CAGE. REFER TO DETAIL #9/M-4.
- 15 REFER TO DUCT SUPPORT DETAIL DRAWING #1/M-5.
- 16 NEW 150X150 COMBUSTION AIR DUCTWORK. REFER TO COMBUSTION AIR DETAIL DRAWING #2/M-5.
- 17 1400MMX1000MM RELIEF AIR OPENING DUCTED FROM NEW GYM CEILING SPACE TO ROOF RELIEF HOOD COMPLETE WITH FIRE DAMPER, BACKDRAFT SENSOR AND TAMCO 9000 THERMALLY INSULATED LOW LEAK MOTORIZED DAMPER. SEE DETAIL #3/M-5. COORDINATE EXACT LOCATION ON SITE.
- 18 PROTECTIVE ALUMINUM COVERING AND INSULATION OUTLINED IN DETAIL #1/M-5 TO BE PROVIDED ON DUCTWORK RUNNING UP ALONG EXTERIOR OF WALL.
- 19 NEW 250X250 R/A DUCT UP IN ATTIC SPACE TO DROP DOWN TO MECHANICAL ROOM BELOW.
- 20 NEW 250X250 S/A DUCT FROM BASEMENT TO RUN UP INTO ATTIC SPACE.
- 21 NEW MITSUBISHI UNIT MODEL #PUY-A24NHA C/W LOW AMBIENT COOLING OPTION INSTALLED 1200MM. REFER TO ARCHITECTURAL FOR ENCLOSURE.
- 22 CHIMNEYS TO RISE UP FROM BASEMENT MECHANICAL ROOM AND THROUGH ROOF. TERMINATE CHIMNEYS AS PER CODE REQUIREMENTS.

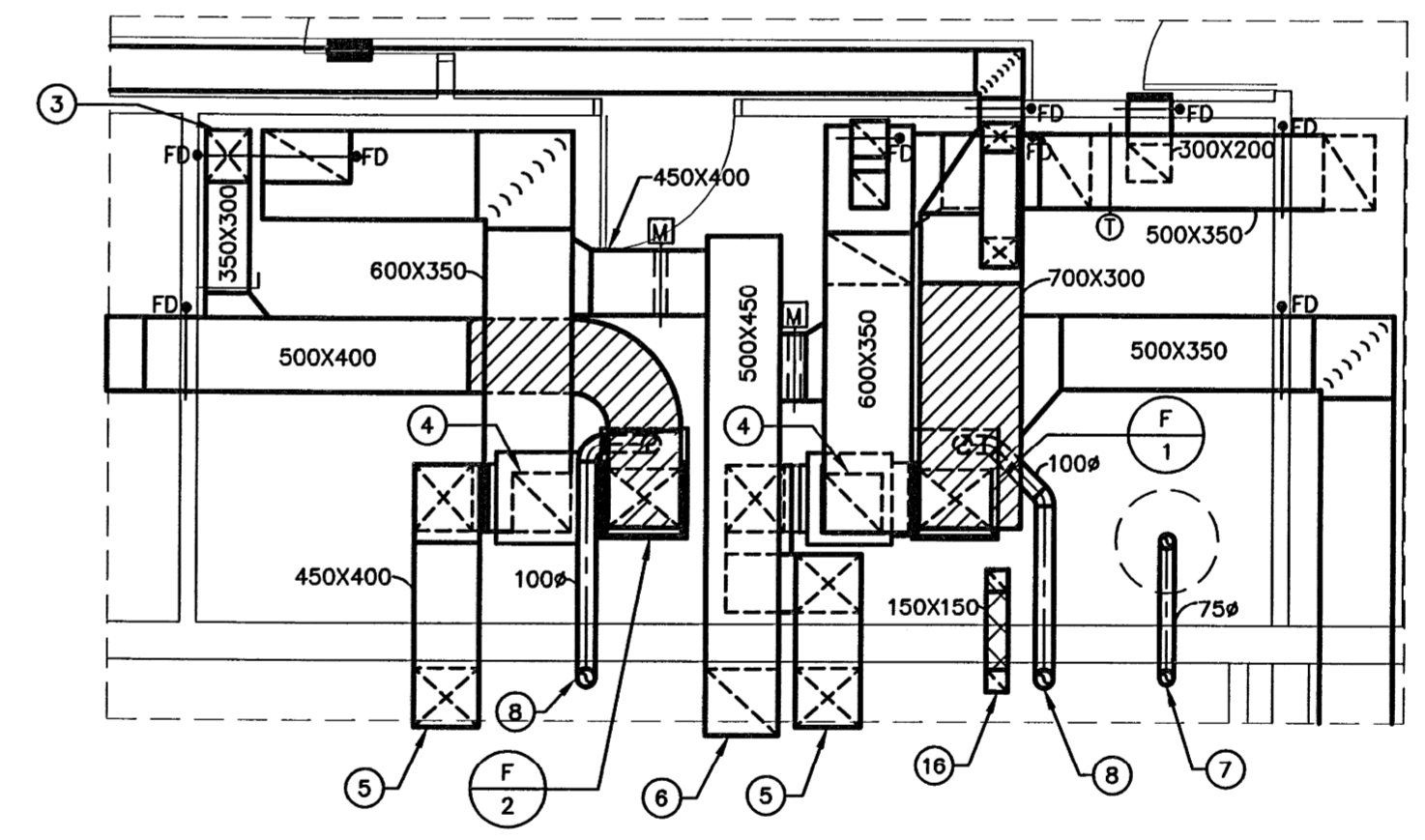


**LEGEND**

	NEW THERMOSTAT
	THERMAL INSULATION
	ACOUSTIC INSULATION
	NEW DUCTWORK
	NEW LINEAR DIFFUSER
	NEW SUPPLY DIFFUSER
	NEW RETURN GRILLE
	BALANCING DAMPER
	BACKDRAFT DAMPER
	FIRE DAMPER
	MOTORIZED DAMPER
	VAV BOX
	FIRE EXTINGUISHER



4 GAS PIPING LAYOUT  
SCALE: 1:75



3 ENLARGED BASEMENT FURNACE ROOM PLAN  
SCALE: 1:50

**BASEMENT GENERAL NOTES:**

1. THIS DRAWING IS DIAGRAMMATIC. ALL FINAL DUCTWORK ROUTING TO BE COORDINATED ON SITE BY MECHANICAL CONTRACTOR

**BASEMENT DRAWING NOTES:**

- 1 NEW 150# DUCTWORK TO RUN WITHIN JOIST SPACE AND SUPPLY FLOOR GRILLES ON MAIN FLOOR.
- 2 NEW THERMOSTAT TO BE CONNECTED TO NEW FURNACE (F-1) IN BASEMENT AND WIRED AS PER MANUFACTURER'S RECOMMENDATIONS FOR CURRENT SET-UP.
- 3 NEW 350X300 S/A TO RISE UP TO MAIN FLOOR.
- 4 NEW 400X400 R/A DUCT DOWN TO ECONOMIZER.
- 5 NEW 450X400 O/A INTAKE DUCTWORK. REFER TO DETAIL #1/M-4.
- 6 NEW 500X450 RELIEF AIR DUCT. REFER TO DETAIL #1/M-4.
- 7 NEW 75# CHIMNEY VENT FROM EXISTING GAS FIRED HOT WATER TANK. REFER TO DETAIL #1/M-4.
- 8 NEW 100# CHIMNEY VENT FROM NEW GAS FIRED FURNACE (F-1 & F-2). REFER TO DETAIL #1/M-4.
- 9 NEW 3KW ELECTRIC UNIT HEATER. SUPPLIED AND INSTALLED BY DIVISION 16.

- 10 NEW 150X150 CRAWLSPACE VENTILATION INTAKE DUCT C/W WITH GOOSENECK UP THROUGH AREA WELL. TERMINATE GOOSENECK MINIMUM 1200MM ABOVE FINISHED GRADE.
- 11 NEW MOTORIZED DAMPER TO BE INTERLOCKED WITH CRAWLSPACE EXHAUST FAN AND CONTROLLED WITH HUMIDISTAT.
- 12 NEW CRAWLSPACE EXHAUST FAN TO DISCHARGE UP THROUGH AREA WELL C/W GOOSENECK. TERMINATE GOOSENECK MINIMUM 1200MM ABOVE FINISHED GRADE.
- 13 REFER TO DRAWING #3/M-3 FOR ENLARGED FURNACE LAYOUT.
- 14 150X150 COMBUSTION AIR DUCTWORK. REFER TO DETAIL ON M-4.
- 15 NEW FIRE EXTINGUISHER. REFER TO ARCHITECTURAL DRAWINGS FOR FINAL LOCATION AND QUANTITY.
- 16 NEW MITSUBISHI UNIT MODEL #CA-A24CA C/W SLIM SMART REMOTE INSTALLED TIGHT TO UNDERSIDE OF BULKHEAD. SLIM SMART REMOTE LOCATION TO BE COORDINATED ON SITE BY MECHANICAL CONTRACTOR.
- 17 REFRIGERANT PIPING TO RISE UP TO MAIN FLOOR

3 ISSUED FOR TENDER SR 2007.11.14  
2 ISSUED FOR 100% REVIEW DG 2007.07.06  
1 ISSUED FOR 99% REVIEW DG 2007.06.29

revisions  
This drawing must not be scaled.  
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No. 599 Expiry: April 30, 2008

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project  
**VALOUR COMMUNITY CENTRE GYMNASIUM ADDITION AND REVOLUTIONS**  
715 Telfer St. North, Winnipeg, Manitoba  
sheet title  
**MAIN & BASEMENT FLOORS H.V.A.C. LAYOUT**

project no. 5603 sheet no.  
scale :AS SHOWN  
drawn by: BK  
approved by: SR  
date July 6, 2007

M-3