

#### BASEMENT PLAN- HVAC LAYOUT / 6"(150mm) RADIUS -1500X1500 OUT SIDE AIR ITAKE WITH BIRDS SCREEN COUNTER FLASHING \ BY THIS DIVISION 400X200 SUPPLY-AIR DUCT 850X600 SUPPLY 660X1100-400X200 SUPPLY--550X300 SUPPLY AIR AIR DUCT 350X300 EXHAUST-AIR DUCT 450X150 -150X250 EXHAUST AIR DUCT √-400ø EXHAUST 134 \AIR DUCT 300X250 EXHAUST-AIR DUCT -350X550 SUPPLY AIR DUCT 1000X760 RETURN-AIR DUCT HALLWAY EXISTING GYM −710X200 ~450X200 EXHAUST AIR EXHAUST AIR DUCT DUCT 750X1000 OUTDOOR ¬ AIR DUCT 250X300 EXHAUST-AIR DUCT WASHROOM 450X350 SUPPLY 250X200 RETURN 300X150 EXHAUST AIR DUCT 300X150 EXHAUST -AIR DUCT AIR DUCT MAIN FLOOR -1100X710 MAIN SUPPLY AIR DUCT MECH. ROOM 750X1000 RETURN-BASEMENT SUPPORT FASTENED IN FLOOR

## GENERAL NOTES:

- 1. THIS DRAWING IS DIAGRAMMATIC ONLY. DO NOT
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING EXACT LAYOUTS, ROUTING, ETC.

# DRAWING NOTES:

- 1) 300X200 EXHAUST AIR DUCT RISER UP.
- 2 350X300 EXHAUST AIR DUCT RISER UP.
- (3) 300X200 COMBUSTION AIR DUCT.
- 4 DHWT VENT, DUCT SIZED BY DHWT SUPPLIER.
- 5 BOILER VENT, DUCT SIZED BY BOILER SUPPLIER
- (6) 1000X750 RETURN AIR DUCT FROM ABOVE.
- 7 1000X750 OUTDOOR AIR DUCT FROM ABOVE.
- 8 1100X710 SUPPLY AIR DUCT RISER UP.
- 9 400X150 TRANSFER DOOR GRILLE. PRICE STG-1 SERIES.
- 10 MOTORIZED DAMPERS ON AIR HANDLING UNIT (AHU-2) TO BE INTERLOCKED WITH EF-2.
- (1) 660X150 TRANSFER AIR DUCT (TYPICAL OF 4) SEE DETAIL # 4/M7.1
- 12) 12¢ COLD WATER SUPPLY. REFER TO PLUMBING DRAWING M3.1 FOR CONTINUATION OF PIPING.
- 13 50¢ CONDENSATE PIPE TO NEAREST FLOOR DRAIN. REFER TO PLUMBING DRAWING M1.1
- DRAIN. REFER TO PLUMBING DRAWING M1.1 FOR LOCATION.
- 14) TYPICAL TRANSFER AIR ELBOW. REFER TO DETAIL 2/M5.2.
- 15) 32¢ SNOW MELT DRAIN TO NEAREST FD-2

## ASHRAE 62.1-2007 COMPLIANCE SCHEDULE

UNIT DESIGNATION	OCCUPANCY CATEGORY	PEOPLE OUTDOOR AIR RATE (CFM/OCCUPANT)	NUMBER OF OCCUPANTS	OCCUPANT AIR VOLUME (CFM)	AREA OF SPACE (FT²)	AREA OUTDOOR AIR RATE (CFM/FT²)	**OCCUPIED MINIMUM OUTSIDE AIR (CFM)	***COMBINED OUTSIDE AIR (CFM)
AHU-1	GYMNASIUM M13	7.50 CFM / OCCUPANT	600	4.500	5,520.80	0.06 CFM / FT <sup>2</sup>	331.25	4,831.25
AHU-2	MINI GYM	CFM / OCCUPANT	119		1,243.20	0.3 CFM / FT <sup>2</sup>	372.96	372.96
	OFFICE	5.0 CFM / OCCUPANT	249	1,245	11,259.70	0.06 CFM / FT <sup>2</sup>	675.58	1,920.58
MUA-1	KITCHEN M12	CFM / OCCUPANT	7	2,300		CFM / FT²	2,300	2,300
TOTALS		<del>}</del>					1,079.79	7,124.79

NOTES: \*OCCUPANT LOADS BASED ON ASHRAE STANDARD 62.1—2007, VENTILATION FOR ACCEPTABLE INDOOR AIR QUALITY.

\*\*THIS COLUMN INDICATED MINIMUM VENTILATION AIR VOLUME IF OUTSIDE AIR DAMPER IS CONTROLLED BY A CO2 SENSOR.

\*\*\*INFORMATION PROVIDED FOR REFERENCE ONLY.

# GRILLE & DIFFUSER SCHEDULE

GNILLE & BILLOSER SOFILBULE										
TYPE	MAKE	MODEL	SERVICE	BORDER	CORE	BLADE	FRAME	FASTEN	FINISH	REMARKS
A A	PRICE	SCD	SUPPLY	F		L		A	B12	REFER TO DRAWING FOR SIZES AND LOCATIONS
. В	PRICE	<b>80</b> °	RETURN	F		L		A	B12	REFER TO DRAWING FOR SIZES AND LOCATIONS
C	PRICE	530	EXHAUST	F		L		A	B12	REFER TO DRAWING FOR SIZES AND LOCATIONS
D	PRICE	530	TRANSFER/ RETURN	F		L		A	B12	REFER TO DRAWING FOR SIZES AND LOCATIONS
E	MCGILL AIRFLOW LLC	DDF-GOBD	SUPPLY					SHEET METAL SCREWS	GALV.	FRAMED PERFORATED GRILLE WITH DAMPER. REFER TO DRAWING FOR LOCATION AND SIZES
F	PRICE	520	SUPPLY	F			-	A	B12	REFER TO DRAWING FOR SIZES AND LOCATIONS
G G	PRICE	710	SUPPLY					-		REFER TO DRAWING FOR SIZES AND LOCATIONS



Certificate of Authorization

MCW/AGE Consulting

Professional Engineers

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D ISSUED FOR TENDER

C ISSUED FOR 99% REVIEW
B ISSUED FOR 90% REVIEW
A ISSUED FOR 60% REVIEW

FEB 10, 2010 JAN 11, 2010 DEC 02, 2009

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This drawing must not be scaled.

The general Contractor must verify all dimensions, datums and levels prior to commencement of work. All errors and omissions must be reported immediately to the Architect.

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MCW / AGE

Consulting Professional Engineers
210-1821 Wellington Avenue
Winnipeg, Manitoba, R3H 0G4
Phone - (204) 779-7900 Fax - (204) 779-1119
E-Mail: mcw\_wpg@mcw.com



proj

SINCLAIR COMMUNITY
CENTRE
ADDITION & RENOVATIONS
490 Sinclair Street, Winnipeg

sheet title

BASEMENT PLAN-VENTILATION LAYOUT

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approved by: GSR
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MECHANICAL SECTION

M5.1 SCALE: 1:75