PLUMBING GENERAL NOTES

1. FIRESTOP ALL MECHANICAL PENETRATIONS THROUGH FIRE-RATED FLOOR AND WALL ASSEMBLIES. SEE ARCHITECTURAL DRAWINGS FOR LOCATION AND TYPE OF RATINGS.
2. WATER HAMMER ARRESTORS SHALL BE PROVIDED TO EACH WASHROOM AND FIXTURE GROUP.
3. ALL PIPING SHALL BE INSULATED PER THE SPECIFICATION.
4. THE LOCATION AND ROUTING OF PIPES SHOWS THE INTENT OF THE DESIGN. THE CONTRACTOR SHALL ALLOW FOR THE POSSIBILITY OF INTERFERENCES AND SHALL RESOLVE WITH OTHER TRADES ON SITE. ANY CHANGES TO THE DESIGN INTENT REQUIRE APPROVAL BY THE ENGINEER.
5. ALL NEW CORING FOR PLUMBING SERVICES SHALL BE DONE BY MECHANICAL CONTRACTOR. COORDINATE WITH ALL OTHER TRADES.
6. SANITARY PIPING THROUGH CONCRETE BEAMS SHALL BE THROUGH CAST-IN-PLACE STEEL SLEEVES. REFER TO STRUCTURAL AND ARCHITECTURAL DRAWINGS FOR LOCATIONS. COORDINATE WITH GENERAL CONTRACTOR.
7. EACH WASHROOM FIXTURE GROUP SHALL HAVE A SINGLE SHUT OFF VALVE. VALVES SHALL BE FULLY ACCESSIBLE.
8. REFER TO ARCHITECTURAL DRAWINGS FOR THE EXACT LOCATION OF PLUMBING FIXTURES.
9. REFER TO STRUCTURAL DRAWINGS FOR RESTRICTIONS FOR ALL NEW FLOOR AND WALL PENETRATION LOCATIONS AND SIZES.
10. THE CONTRACTOR SHALL SIZE AND COORDINATE PLUMBING VENTING WHERE NOT SHOWN ON THE DRAWINGS. REFER TO THE DRAWINGS FOR SPECIFIC LOCATIONS AND COORDINATION REQUIREMENTS.

PLUMBING SYMBOLS

	FLOOR DRAIN
	ROOF DRAIN
	PIPE RISE
	PIPE DROP
	TRAP
	CLEAN OUT
	HOSE BIBB / WALL HYDRANT
	UNION
	FLANGE
	SHUT-OFF VALVE
	CHECK VALVE
	PUMP
EQ - 1i	FIXTURE TAG
EQ 1i	EQUIPMENT TAG
?	KEY NOTE
?	DEMOLITION NOTE
1 M1.1	DRAWING HEADER
WM	WATER METER
CA	COMPRESSED AIR CONNECTION
PW	PRESSURE WASHER CONNECTION

PLUMBING LINE TYPE

	DOMESTIC COLD WATER
	DOMESTIC HOT WATER RECIRCULATION LINE
	DOMESTIC HOT WATER
RWL	RAIN WATER LEADER
SS	STORM SEWER
SAN	SANITARY WASTE ABOVE FLOOR OR GRADE
SAN	SANITARY WASTE BELOW FLOOR OR GRADE
VEN	SANITARY VENT
IW	INDIRECT WASTE
PC	PUMPED CONDENSATE
C	CONDENSATE LINE
G	NATURAL GAS
CA	COMPRESSED AIR
P	PROPANE

FIRE PROTECTION GENERAL NOTES

1. THE SPRINKLER CONTRACTOR SHALL INSTALL A COMPLETE SPRINKLER SYSTEM AS NOTED ON THE DRAWINGS AND SPECIFICATIONS.
2. THE SPRINKLER CONTRACTOR SHALL PREPARE ALL NECESSARY DETAILED DESIGN DRAWINGS AND/OR DOCUMENTS AND SUBMIT TO THE ENGINEER FOR REVIEW AND COORDINATION. ENSURE COMPLETE SPRINKLER COVERAGE IN COMPLIANCE WITH NFPA 13 & NFPA 14, AND RELATED APPLICABLE NFPA CODES.
3. THIS SET OF CONTRACT DOCUMENTS INCLUDES PROJECT-SPECIFIC REQUIREMENTS NOTED IN THE DRAWINGS AND SPECIFICATIONS THAT MAY EXCEED MINIMUM REQUIREMENTS OF THE NFPA CODES. THESE ITEMS HAVE BEEN COORDINATED WITH THE ARCHITECT AND OWNER, AND SHALL BE INCLUDED IN THE CONTRACTOR'S WORK AND ON THE SPRINKLER CONTRACTOR'S DETAILED DRAWINGS.
4. THE INSTALLATION OF SPRINKLER SYSTEMS SHALL NOT COMMENCE UNTIL THE COMPLETE SHOP DRAWINGS AND SPECIFICATIONS HAVE BEEN APPROVED BY THE AUTHORITY HAVING JURISDICTION (A.H.J.).
5. THE SPRINKLER INSTALLATION SHALL COMPLY WITH THE APPLICABLE NPFA CODES AND REQUIRMENTS OF THE A.H.J. IF THERE IS A CONFLICT WITH THE PERCEIVED INTENT OF THIS DRAWING SET AND THE REQUIREMENTS OF NFPA OR THE A.H.J., NOTIFY THE ENGINEER TO RESOLVE. NO INCREASES TO THE CONTRACT WILL BE PERMITTED FOR COMPLIANCE WITH MINIMUM CODE REQUIREMENTS.
6. IN AREAS WITH SUSPENDED TILE CEILINGS INSTALL SPRINKLER HEADS CENTRED ON THE TILES. ALLOW FOR ADDITIONAL HEADS IF NECESSARY TO MEET THIS REQUIREMENT.
7. ADDITIONAL SPRINKLER HEADS SHALL BE INSTALLED UNDER DUCTS MORE THAN 1200mm (48") WIDE.
8. GRADE ALL NEW PIPING TO ALLOW COMPLETE SYSTEM DRAINAGE. DRAINAGE SHALL BE ROUTED TO THE NEAREST SANITARY DRAIN OF SUFFICIENT SIZE. COORDINATE WITH PLUMBING CONTRACTOR. DRAINAGE TO STORM DRAINAGE PIPING OR SUMP PITS IS NOT PERMITTED.
9. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF SPRINKLER RISERS ON SITE. COORDINATE LOCATION OF RISERS AND FIRE DEPARTMENT CONNECTION WITH THE ARCHITECT.
10. THE SPRINKLER CONTRACTOR SHALL SCAN FOR REBAR AND CONDUIT AND PROVIDE RESULTS OF SCAN IN WRITING TO OWNER PRIOR TO CORING OR DRILLING IN ALL CONCRETE WALLS OR FLOORS.
11. FIRESTOP ALL NEW PENETRATIONS.
12. PROVIDE PROTECTIVE CAGES ON SPRINKLER HEADS LOCATED BELOW STAIRS.

FIRE PROTECTION SYMBOLS

	UPRIGHT SPRINKLER
	PENDENT SPRINKLER
	SPRINKLER WITH GUARD
	SIDEWALL SPRINKLER
	SIDEWALL SPRINKLER CONCEALED
	PENDENT SPRINKLER - CONCEALED HEAD
	INSTITUTIONAL TAMPER RESISTANT SPRINKLER HEAD
WF	FLOW DETECTOR / SWITCH
PS	PRESSURE DETECTOR / SWITCH
VS	VALVE SUPERVISORY SWITCH
	VALVE WITH VALVE SUPERVISORY SWITCH
	CHECK VALVE
	BACKFLOW PREVENTER - DOUBLE CHECK TYPE
	RISER
	VALVES (GENERAL)
	SITE GLASS
	OS&Y VALVE (RISING STEM)
	SINGLE FIRE DEPARTMENT CONNECTION
	ALARM CHECK VALVE
	FIRE PROTECTION NOSE VALVE
	PRESSURE GAUGE
	TYPE ABC FIRE EXTINGUISHER
	LIGHT HAZARD
	ORDINARY HAZARD (GROUP 1)
	ORDINARY HAZARD (GROUP 2)
	EXTRA HAZARD (GROUP 1)
	EXTRA HAZARD (GROUP 2)
	DRY SPRINKLER SYSTEM *
	PRE-ACTION SPRINKLER SYSTEM *

* REFER TO SPRINKLER COVERAGE SCHEDULE FOR HAZARD LEVEL.

FIRE PROTECTION LINE TYPE

FPD	SPRINKLER LINE - DRY
FPA	SPRINKLER LINE - PRE-ACTION
FPW	SPRINKLER LINE - WET
FDC	FIRE DEPARTMENT CONNECTION LINE
FPS	FIRE PROTECTION - SANITARY

HVAC GENERAL NOTES

1. FIRESTOP ALL MECHANICAL PENETRATIONS THROUGH FIRE-RATED FLOOR AND WALL ASSEMBLIES. SEE ARCHITECTURAL DRAWINGS FOR LOCATION AND TYPE OF RATINGS.
2. DUCT TRANSITIONS MAY NOT BE SHOWN IN DETAIL ON PLAN. REFER TO DETAILS SHEETS AND SMACNA - HVAC DUCT CONSTRUCTION STANDARDS FOR REQUIRED DUCT TRANSITIONS AND FITTINGS. ALL DUCT TAPS TO BRANCH DUCTS SHALL HAVE 45 DEGREE ENTRY FITTINGS.
3. INSTALL FIRE DAMPERS ON ALL DUCTS PENETRATING FIRE RATED WALL ASSEMBLIES, COMPLETE WITH ACCESS DOORS, SEE STANDARD DETAIL. REFER TO ARCHITECTURAL DRAWING FOR WALL TYPES.
4. COORDINATE FINAL THERMOSTAT INSTALLATION HEIGHT AND DISTANCE FROM DOOR WITH ARCHITECT.
5. DUCT INSULATION MATERIALS SHALL MEET SMOKE AND FLAME SPREAD REQUIREMENTS FOR PLENUM INSULATION.
6. DUCT INSULATION SHALL FOLLOW THE SCHEDULES IN THE SPECIFICATION AS A MINIMUM REQUIREMENT. THESE REQUIREMENTS SHALL APPLY REGARDLESS OF WHETHER OR NOT DUCT INSULATION IS SHOWN ON THE DRAWINGS.
7. WHERE DUCT INSULATION IS SHOWN ON THE DRAWINGS (EITHER WITH THE HATCHING CONVENTION OR BY MEANS OF A KEY NOTE) AND EXCEEDS THE REQUIREMENTS OF THE SCHEDULES IN THE SPECIFICATION, THE ADDITIONAL INSULATION REQUIREMENTS SHALL BE MET.
8. INSTALL ALL FLOOR-MOUNTED EQUIPMENT ON MINIMUM 100MM (4") THICK CONCRETE HOUSE KEEPING PADS.
9. PROVIDE MANUAL BALANCE DAMPERS FOR EACH EXHAUST, SUPPLY, AND RETURN GRILLE WHERE AN AIR VOLUME HAS BEEN PROVIDED.
10. INSTALL BALANCE DAMPERS AS FAR AWAY FROM GRILLES OR DIFFUSERS SERVED AS PRACTICALLY POSSIBLE.
11. INSTALL ALL BALANCE DAMPERS IN AN EASILY ACCESSIBLE LOCATION.
12. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF GRILLES AND DIFFUSERS.
13. REFER TO CONTROLS SCHEMATICS FOR REQUIREMENTS FOR SENSORS, ACTUATORS AND OTHER CONTROLS COMPONENTS.
14. CONTRACTOR SHALL SCAN FOR REBAR AND CONDUIT AND PROVIDE RESULTS OF SCAN IN WRITING TO OWNER PRIOR TO CORING OR DRILLING IN ANY CONCRETE WALL OR FLOOR.
15. HIGH-LEVEL EXHAUST FANS SHALL BE HUNG FROM STRUCTURE COMPLETE WITH SPRING VIBRATION ISOLATION AND DUCT FLEX CONNECTIONS.
16. CONTRACTOR SHALL AVOID ROUTING DUCTS THROUGH TOP 400mm OF BLOCK WALLS, GROUTED CORES AND LINTELS. COORDINATE ALL OPENINGS WITH STRUCTURAL AND ARCHITECTURAL PRIOR TO ROUTING.
17. CONTROL DEVICES SHOWN SCHEMATICALLY IN PLAN. GROP CONTROL DEVICES IN CLOSE PROXIMITY OF DOOR FRAMES AND/OR OTHER ELECTRICAL DEVICES. COORDINATE AND CONFIRM WITH ARCHITECTURAL AS NECESSARY.

HVAC LEGEND

	SUPPLY AIR/OUTSIDE AIR DUCT RISER
	RETURN AIR/EXHAUST AIR DUCT RISER
	MANUAL BALANCING DAMPER
	FIRE DAMPER & ACCESS DOOR
	SMOKE DAMPER & ACCESS DOOR
	FIRE SMOKE DAMPER & ACCESS DOOR
M	MOTORIZED DAMPER, BLADES PARALLEL W/ FLOOR UNLESS NOTED OTHERWISE
BDD	BACK DRAFT DAMPER
	TURNING VANES
	THERMAL INSULATION
	ACOUSTIC INSULATION
	FIRE WRAP
S-1i L/s	DIFFUSER TAG / GRILLE TAG
EQ 1i	EQUIPMENT TAG
?	KEY NOTE
?	DEMOLITION NOTE
T	THERMOSTAT - LOW VOLTAGE
T	THERMOSTAT - LINE VOLTAGE
CO2	CARBON DIOXIDE SENSOR
H	HUMIDISTAT
P	PRESSURE SENSOR
S	TEMPERATURE SENSOR
CO	CARBON MONOXIDE SENSOR
NO	NITROGEN OXIDE SENSOR
S	DUCT SMOKE DETECTOR - BY DIV. 28
CO	CARBON MONOXIDE SENSOR - BY DIV. 28

HYDRONIC GENERAL NOTES

1. PIPING SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH ASME B31.9 CODE FOR BUILDING SERVICES PIPING.
2. INSULATE ALL HYDRONIC PIPING IN ACCORDANCE WITH THE SPECIFICATIONS.
3. COORDINATE PIPE RUNS IN THE BULKHEAD WITH OTHER TRADES TO AVOID CONFLICTS.
4. SUPPORT PIPING IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND THE SPECIFICATIONS.
5. FIRESTOP ALL MECHANICAL PENETRATIONS THROUGH FIRE-RATED FLOOR AND WALL ASSEMBLIES. SEE ARCHITECTURAL DRAWINGS FOR LOCATION AND TYPE OF RATINGS
6. ALL EXPOSED PIPING IN MECHANICAL ROOMS, CRAWLSPACES, AND OCCUPIED AREAS SHALL BE ENCLOSED WITH PVC JACKET.
7. REFER TO SCHEMATIC AND DETAILS FOR PIPING AND EQUIPMENT ARRANGEMENT.
8. WHEN USED IN RETURN-AIR PLENUMS, INSULATION MATERIALS FOR DOMESTIC, HYDRONIC, AND REFRIGERANT PIPING TO MEET SMOKE AND FLAME SPREAD REQUIREMENTS FOR PLENUM INSULATION.
9. PROVIDE A MINIMUM OF TWO 90-DEGREE CHANGES IN DIRECTION AT EACH BRANCH CONNECTION TO ALLOW FOR PIPE MOVEMENT.
10. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR FIELD-FABRICATED EXPANSION LOOPS INCLUDING ANCHORS AND GUIDES.
11. LAYOUTS ARE SCHEMATIC AND ROUTING IS SHOWN TO CONVEY THE DESIGN INTENT. ADDITIONAL OFFSETS, STEAM TRAPS, AND ELBOWS SHALL BE INSTALLED AS REQUIRED TO ACCOMMODATE ALL EXISTING CONDITIONS.
12. INSTALL VALVES WITH THE STEMS VERTICAL. WHEN THIS IS NOT POSSIBLE, THEY MAY BE INSTALLED ROTATED BUT NEVER LESS THAN HORIZONTAL UNDER ANY CIRCUMSTANCE.
13. ARRANGE ISOLATION VALVES STAGGERED WHERE THEY ARE INSTALLED IN A COMMON LOCATION SO THEY ARE COMPLETELY AND CONVENIENTLY ACCESSIBLE.
14. INSTALL VALVES WITH ADEQUATE ROOM TO PERMIT REMOVAL OF THE BONNET, DISK, AND TRIM WITHOUT REMOVING THE VALVE FROM THE LINE.
15. ALL PIPE TAKE-OFFS SHOULD BE FROM THE TOP OF PIPE. WHERE THIS IS NOT POSSIBLE PROVIDE A TAKE-OFF AT A MINIMUM OF 45 DEGREE ABOVE HORIZONTAL.
16. INSTALLATION SHALL PROVIDE MINIMUM 2050mm (80") OF CLEAR HEAD ROOM THROUGHOUT ALL MECHANICAL ROOMS.
17. THE INTERRUPTION OF ANY SERVICES SHALL BE COORDINATED WITH THE BUILDING OWNER AND SHALL BE KEPT TO A MINIMUM.

REFRIGERANT LINE TYPE

RHG	REFRIGERANT HOT GAS
RL	REFRIGERATION LIQUID
RS	REFRIGERATION SUCTION

HYDRONIC SYMBOLS

	PIPE RISE
	PIPE DROP
	PUMP
	SHUT-OFF VALVE
	SHUT-OFF VALVE NORMALLY CLOSED
	CONTROL VALVE
	THREE WAY CONTROL VALVE
	CHECK VALVE
	AUTOMATIC FLOW CONTROL VALVE
	HOSE END VALVE
	PIPE ANCHOR
	PIPE GUIDE
	DIRECTION OF FLOW
MV	MANUAL AIR VENT
	EXPANSION JOINT
	AUTOMATIC AIR VENT
M	VOLUME METER
F	MASS FLOW METER
RAD # LENGTH TYP OF	RADIATION ELEMENT TAG
EQ #	EQUIPMENT TAG
	PRESSURE INDEPENDENT CONTROL VALVE
FS	FLOW SWITCH
PT	PRESSURE TEMPERATURE MEASURING PORT

HYDRONIC LINE TYPE

CGS	CHILLED GLYCOL SUPPLY
CGR	CHILLED GLYCOL RETURN
GHS	GLYCOL HEATING SUPPLY
GHR	GLYCOL HEATING RETURN
GRO	GLYCOL RUNAROUND
HWS	HEATING WATER SUPPLY
HWR	HEATING WATER RETURN

HYDRONIC SYMBOLS

	3-WAY VALVE
	6-WAY VALVE
S	AIR SEPARATOR
	AQUASTAT
	AUTO REFILL VALVE
BFP	BACK FLOW PREVENTER
	BALL VALVE
	BUTTERFLY VALVE
	BY-PASS CHEMICAL FEEDER
	CALIBRATED BALANCING VALVE
	CONCENTRIC AND ECCENTRIC REDUCER
DCVA	DOUBLE CHECK VALVE ASSEMBLY
	F & T STEAM TRAP
	FLANGE
	FLEX CONNECTION
	GATE VALVE
	GATE VALVE HOSE-END ADAPTOR WITH CAP
	GLOBE VALVE
	HOSE BIB
	IN-LINE FILTER
	INSTRUMENT TEST WELL
	LOW WATER CUT OFF
	OS&Y VALVE
	PLUG VALVE
	PRESSURE GAUGE
	PRESSURE REDUCING VALVE
?? PSI	PRESSURE RELIEF VALVE
	PRESSURE SENSOR
BFP	REVERSE FLOW BACK FLOW PREVENTER
	SHOCK ABSORBER
	SIGHT GLASS
	SOLENOID VALVE
	SQUARE HEAD COCK
	STEAM SEPARATOR
	STRAINER
	TEMP & PRESSURE RELIEF VALVE
	THERMAL WELL
	THERMOMETER
	THERMOSTATIC MIXING VALVE
	THERMOSTATIC STEAM TRAP
	TRIPLE DUTY VALVE
	UNION
	VACUUM BREAKER
	WATER METER
	NATURAL GAS METER

MECHANICAL DRAWINGS

SYMBOLS & ABBREVIATIONS
M0.1 Mechanical Symbols

SITE PLANS
M1.1 West Roof Vocational Wing - Mechanical Plan

PLUMBING DRAWINGS
MP2.1 Underslab/Crawlspace West Vocational Wing - Plumbing Plan
MP2.2 Main Floor West Vocational Wing - Plumbing Plan
MP2.3 Second Floor West Vocational Wing - Plumbing Plan
MP4.1 Details - Plumbing
MP4.2 Details - Plumbing

FIRE PROTECTION DRAWINGS
MF2.1 Underslab/Crawlspace West Vocational Wing - Fire Protection Plan
MF2.2 Main Floor West Vocational Wing - Fire Protection Plan
MF2.3 Second Floor West Vocational Wing - Fire Protection Plan
MF4.1 Details - Fire Protection Plan

HYDRONIC DRAWINGS
MY2.1 Underslab/Crawlspace West Vocational Wing - Hydronic Plan
MY2.2 Main Floor West Vocational Wing - Hydronic Plan
MY2.3 Second Floor West Vocational Wing - Hydronic Plan
MY4.1 Details - Hydronic

HVAC DRAWINGS
MH2.1 Underslab/Crawlspace West Vocational Wing - HVAC Plan
MH2.2 Main Floor West Vocational Wing - HVAC Plan
MH2.3 Second Floor West Vocational Wing - HVAC Plan
MH4.1 Details - HVAC 1
MH4.2 Details - HVAC 2
MH4.3 Details - HVAC 3
MH4.4 Details - HVAC 4
MH4.5 Details - HVAC 5

MECH RCP DRAWINGS
M3.1 Main Floor - Mechanical RCP Plan

LARGE SCALE PLANS
M4.1 Large Scale Plans - Mechanical Mezzanine
M4.2 Large Scale Plans - Culinary Arts

SCHEMATICS
M5.1 Hydronic and Chilled Water Shematics
M5.2 Air System Schematic
M5.3 Controls Schematic 1
M5.4 Controls Schematic 2

SECTION,3D AND DETAIL VIEWS
M6.1 AHU-7/AHU-8 - Sections
M6.2 3D Views - AHU-7
M6.3 3D Views - AHU-8/AHU-9
M6.4 Section and 3D Views - AHU-9/AHU-10
M6.5 AHU Details

SCHEDULES
M7.1 Mechanical Schedules 1
M7.2 Mechanical Schedules 2
M7.3 Mechanical Schedules 3

PLUMBING FIXTURE UNITS SCHEDULE

FIXTURE TYPE		WEIGHT OF F.U. NPC	WEIGHT IN F.U. CITY OF WINNIPEG	NO. OF FIXTURES	COUNT NPC	COUNT CITY OF WINNIPEG
DW	1	2	3	6	12	18
LAV	1	1	1	2	2	2
MS	1	2	3	1	2	3
SK	7	2	3	1	2	3
SK	8	2	3	1	2	3
WC	2	4	8	2	8	16
WM	1	2	3	1	2	3
Grand total					30	48

ENGINEERS GEOSCIENTISTS MANITOBA
Certificate of Authorization
Epp Siepman Engineering Inc.
No. 4035

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No.	REVISION/DESCRIPTION	BY	DATE
0	ISSUED FOR CONSTRUCTION	JS/MP	24-04-01

SEAL

PROVINCE OF MANITOBA
J.D. SCHELLENBERG
Member
31336
2024-04-01
REGISTERED PROFESSIONAL ENGINEER

JS DRAWN	JS CHECKED	JS DESIGNED	JS APPROVED
DATE 2024-04-01	USER APPROVAL		

Winnipeg
THE CITY OF WINNIPEG
ASSETS & PROJECT MANAGEMENT DEPARTMENT
MUNICIPAL ACCOMMODATIONS DIVISION
3-65 GARRY STREET, R3C 4K4

PROJECT
PEMBINA TRAILS COLLEGIATE
VOCATIONAL WING
TENDER NO. 954-2023B
50 FRONTIER TRAIL, WINNIPEG, MANITOBA, R3Y 2H1

SHEET TITLE
Mechanical Symbols

SCALE	PROJECT No:	SHEET No:
As indicated	2020-127	M0.1

DRAWING SHEET SIZE: A1 (594x841) PLOT 1:1
ESE 24049