



SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
<p>EQUIPMENT DESIGNATION FLOOR NUMBER SEQUENTIAL NUMBER            FC-12-01            TYPICAL EQUIPMENT DESIGNATION SEQUENTIAL NUMBER            UH-01</p> <p>DESIGNATION EQUIPMENT DESIGNATION SILENCER TAG            SL-AHU12-01-501</p>			
AC	SPLIT SYSTEM AIR CONDITIONING UNIT (REFER TO CU BELOW)	MUA	MAKEUP AIR UNIT PUMP (GENERAL)
ACH	AIR CURTAIN	P-HTG	HEATING WATER PUMP
AFS	AIR FLOW STATION	P-CLG	COOLING WATER PUMP
AHU	AIR HANDLING UNIT	P-FSP/FIRE	FIRE STANDPIPE PUMP/FIRE PUMP
ACCH	AIR COOLED CHILLER	P-DW	DOMESTIC WATER PUMP
SL	SILENCERS (TO BE READ IN CONJUNCTION WITH ASSOCIATED AIR HANDLING UNIT)	P-SAN	SANITARY PUMP
B	BOILER	P-STM	STORM PUMP
CH	CHILLER	P-DHWR	DOMESTIC HOT WATER RECIRC PUMP
CRU	COMPUTER ROOM AIR CONDITIONING UNIT	P-FO	FUEL OIL PUMP
CT	COOLING TOWER	P-CHEM	CHEMICAL FEED PUMP
CUH	CABINET UNIT HEATER	P-CHW	CHILLED WATER PUMP
CU	CONDENSING UNIT	P-CDS	CONDENSER WATER PUMP
DHWT	DOMESTIC HOT WATER TANK	RF	RETURN FAN
DHWH	DOMESTIC HOT WATER HEATER	RP	RADIANT PANEL
EF	EXHAUST FAN	RTU	ROOF TOP UNIT
ET	EXPANSION TANK	SCAC	SELF CONTAINED AIR CONDITIONING UNIT
EV	EVAPORATOR	SF	SUPPLY TRANSFER FAN
ERW	ENTHALPY WHEEL	TF	TRANSFER FAN
FC	FLUID COOLER	UH	UNIT HEATER
FCU	FAN COIL UNIT	VHP	VERTICAL HEAT PUMP
FFH	FORCE FLOW HEATER	VFC	VERTICAL FAN COIL
HE	HEAT EXCHANGER		
HHP	HORIZONTAL HEAT PUMP		
HU	HUMIDIFIER UNIT		

NOTE: NOT ALL SYMBOLS APPLY. REFER TO FLOOR PLANS AND DRAWINGS

7 MECHANICAL EQUIPMENT NOMENCLATURE CONVENTION (MSD-012.12)

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	POWER REQUIREMENT FOR ELECTRIC TRACING	PE	PNEUMATIC-ELECTRIC
	ELECTRIC PIPE TRACING FOR SINGLE LINE PIPES	C	CONTROLLER
	ELECTRIC PIPE TRACING FOR DOUBLE LINE PIPES	TS	TEMPERATURE SENSOR
MCC	MOTOR CONTROL CENTRE	HS	HUMIDITY SENSOR
	DISCONNECT SWITCH	DS	AIR FLOW MONITORING STATION
	SWITCH (MANUAL STARTER)	SP	STATIC
HOA	HAND-OFF-AUTO	VFD	VARIABLE FREQUENCY DRIVE
FZ	LOW TEMPERATURE THERMOSTAT	CO	CARBON MONOXIDE SENSOR
FS	HIGH TEMPERATURE THERMOSTAT	RS	REFRIGERANT SENSOR
T	ELECTRIC/LOW VOLTAGE THERMOSTAT/SENSOR	CO2	CARBON DIOXIDE SENSOR
	PNEUMATIC/DIGITAL THERMOSTAT	NO2	NITROGEN OXIDE SENSOR
FS	FLOW SWITCH	AFS	AIR FLOW STATION
S	SPEED SWITCH	PS	PRESSURE SENSOR
	THERMOSTAT WITH LOCKABLE TAMPER GUARD	BTU	BTU METER

NOTE: NOT ALL SYMBOLS APPLY. REFER TO FLOOR PLANS AND DRAWINGS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	SUPPLY DUCT UP OR FROM ABOVE		ACOUSTICALLY LINED TRANSFER AIR DUCT
	SUPPLY DUCT DOWN OR FROM BELOW		SILENCER
	RETURN OR EXHAUST DUCT UP OR FROM ABOVE		CROSTALK SILENCER
	RETURN OR EXHAUST DUCT DOWN OR FROM BELOW		DUCT WITH MINIMUM CLEARANCE FIRE RATED ENCLOSURE
	ROUND DUCT UP OR FROM ABOVE		DUCT WITH SLEEVE, INSULATION AND DAMPER
	ROUND DUCT DOWN OR FROM BELOW		CAPPED CONNECTION
	ACOUSTIC LINED DUCT		RISE IN DUCT
	FLEXIBLE CONNECTION		DROP IN DUCT
	SQUARE ELBOW DUCT WITH TURNING VANE		RADIUS ELBOW WITH TURNING VANES
	AXIAL FAN/LINE FAN MIXED FLOW OR CENTRIFUGAL		PROPELLER FAN WITH PROTECTIVE SCREEN
	DIFFUSER GRILLE OR REGISTER TYPE		LINEAR SLOT DIFFUSER
	ROUND SUPPLY DIFFUSER		LINEAR SUPPLY AIR DIFFUSER CW FLEXIBLE DUCT
	DUCTED RETURN OR EXHAUST REGISTER OR GRILLE		LIGHT TROFFER DIFFUSER TOP INLET CW FLEXIBLE DUCT
	SQUARE OR RECTANGULAR DIFFUSER		LIGHT TROFFER DIFFUSER SIDE INLET CW FLEXIBLE DUCT
	RETURN OR EXHAUST GRILLE		DUCT MOUNTED SUPPLY OR RETURN GRILLE
	ROUND RETURN OR EXHAUST GRILLE		LINEAR SUPPLY OR RETURN GRILLE
	SQUARE DIFFUSER		
	DIFFUSERS WITH BLANK-OFF PORTION (QTY SHOWN)		

NOTE: NOT ALL SYMBOLS APPLY. REFER TO FLOOR PLANS AND DRAWINGS

5 AIR HANDLING SYMBOLS (MSD-012.10)

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	FIRE DAMPER		SMOKE DAMPER
	MOTOR OPERATED DAMPER		POSITIVE SEAL DAMPER
	MANUAL DAMPER		GRAVITY OR BACKDRAFT DAMPER
	BALANCING DAMPER		REMOTE OPERATED BALANCING DAMPER
	COMBINATION SMOKE AND FIRE DAMPER		VOLUME EXTRACTOR
	V.A.V. BOX TYPE		FAN POWERED BOX CW RETURN AIR SILENCER OR ACOUSTICALLY LINED RETURN AIR
	V.A.V. BOX WITH ATTENUATOR		FAN POWERED BOX CW RETURN AIR SILENCER OR ACOUSTICALLY LINED RETURN AIR WITH REHEAT COIL
	V.A.V. BOX WITH REHEAT COIL		INDUCTION V.A.V. BOX
	V.A.V. BOX WITH REHEAT COIL AND ATTENUATOR		PRESSURE INDEPENDENT AIR VALVE (LAB)
	TERMINAL UNIT (SEE NOTE 2)		
	HORIZONTAL UNIT HEATER		DUCT COIL
	DOWN BLAST UNIT HEATER		RADIATION HEATING RISER NUMBERS (S=SUPPLY AND R=RETURN)
	RADIANT HEATING PANEL		WALL FIN ELEMENT IN CONTINUOUS ENCLOSURE

NOTE: 1 - NOT ALL SYMBOLS APPLY. REFER TO FLOOR PLANS AND DRAWINGS  
 NOTE: 2 - SYMBOLS ARE DIAGRAMMATIC IN NATURE. REFER TO SPECIFICATIONS/SCHEDULES FOR EXACT DIMENSIONS/CLEARANCES

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	FIRE LINE		PENDANT/SEMI-RECESSED SPRINKLER HEAD
	WET SPRINKLER LINE		UPRIGHT SPRINKLER HEAD
	DRY SPRINKLER LINE		CONCEALED SPRINKLER HEAD
	WET FIRE LINE		NON-FREEZE SPRINKLER HEAD
	DRY FIRE LINE		HIGH TEMPERATURE SPRINKLER HEAD
SV	SUPERVISED VALVE		SIDEWALL SPRINKLER HEAD
FV	FIRE VALVE		WINDOW SPRINKLER HEAD
FSP	FIRE STANDPIPE		
	FLOW SWITCH		
	DELUGE SYSTEM VALVE		
	WET PIPE VALVE		
	DRY SYSTEM VALVE		
	PREACTION SYSTEM VALVE		
	FIRE HYDRANT		
	FIRE GONG		
	FIRE DEPARTMENT CONNECTION		
	FIRE PUMP TEST HEADER		FIRE VALVE CABINET AND TYPE
	FIRE HOSE CABINET AND TYPE		FIRE EXTINGUISHER CABINET AND TYPE
	SPRINKLER SHUT-OFF VALVE CABINET AND TYPE		
	FIRE EXTINGUISHER AND TYPE		
	FIRE EXTINGUISHER CABINET AND TYPE		FIRE HOSE-LESS CABINET

NOTE: NOT ALL SYMBOLS APPLY. REFER TO FLOOR PLANS AND DRAWINGS

3 FIRE PROTECTION (MSD-012.07)

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	ISOLATION VALVE (REFER TO SPECIFICATION FOR SPECIFIC TYPE AS REQUIRED)		PIPE GUIDE (REFER TO SPECIFICATIONS)
	GLOBE VALVE		PIPE SLEEVE
	BALL VALVE		ANCHOR
	LOCKSHIELD VALVE		STRAINER
	FLOW BALANCING VALVE		UNION
	PRESSURE INDEPENDENT FLOW BALANCING VALVE		FLANGE FITTING
	PLUG VALVE		ECCENTRIC FITTING
	NATURAL GAS PRESSURE REDUCING VALVE ASSEMBLY		CONCENTRIC FITTING
	CHECK VALVE		PRESSURE GAUGE
	SOLENOID VALVE		THERMOMETER
	SAFETY RELIEF VALVE		PRESSURE GAUGE COCK ASSEMBLY
	FLOW METERING STATION		THERMOMETER WELL
	BACKFLOW PREVENTOR		EXPANSION JOINT
	ANGLE VALVE		MANUAL AIR VENT
	BUTTERFLY VALVE		AUTOMATIC AIR VENT
	2-WAY BUTTERFLY VALVE		AIR SEPARATOR
	TEMPERED MIXING VALVE		SIGHT GLASS
	FLEXIBLE JOINT		PUMP
	VACUUM BREAKER		DOMESTIC WATER PRV STATION
			WATER HAMMER ARRESTOR

NOTE: NOT ALL SYMBOLS APPLY. REFER TO FLOOR PLANS AND DRAWINGS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	WATER CLOSET		BATHTUB
	URINAL		SHOWER
	COUNTERTOP LAVATORY		BOTTLE FILLER DRINKING FOUNTAIN
	WALL HUNG LAVATORY		EMERGENCY EYEWASH
	SINGLE COMPARTMENT SINK		EMERGENCY EYEWASH/SHOWER
	JANITOR SINK		EMERGENCY SHOWER
	DOUBLE COMPARTMENT SINK		FLUSH TANK
	NON-POTABLE (IF SUFFIX IS APPENDED TO A DOMESTIC WATER SYSTEM, I.E. DCW-NP)		HIGH TEMPERATURE LINE (IF PREFIX IS APPENDED TO A DOMESTIC HOT WATER SYSTEM, I.E. HDHW)
	DOMESTIC COLD WATER (DOM. COLD WATER) (DCW)		RECLAIM RAIN WATER
	BURIED DOMESTIC COLD WATER (DOM. COLD WATER) (DCW)		NATURAL GAS LINE
	DOMESTIC HOT WATER (DOM. HOT WATER) (DHW)		NATURAL GAS VENT LINE
	DOMESTIC HOT WATER RECIRCULATION (DOM. HOT WATER RECIRC.) (DHWR)		HOSE BIBB
	TEMPERED WATER		WALL HYDRANT (OR NON FREEZE WALL HYDRANT)
	WATER METER		GROUND HYDRANT (OR NON FREEZE GROUND HYDRANT)
	TEMPERED MIXING VALVE ASSEMBLY		NON FREEZE POST HYDRANT
	TEMPERED MIXING VALVE CABINET		HOT AND COLD HOSE BIBB

NOTE: NOT ALL SYMBOLS APPLY. REFER TO FLOOR PLANS AND DRAWINGS

1 PLUMBING SYMBOLS AND ABBREVIATIONS (MSD-012.04)

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	HEATING ELEMENT TAG		
	HORIZONTAL UNIT HEATER		DUCT COIL
	DOWN BLAST UNIT HEATER		RADIATION HEATING RISER NUMBERS (S=SUPPLY AND R=RETURN)
	RADIANT HEATING PANEL		WALL FIN ELEMENT IN CONTINUOUS ENCLOSURE

NOTE: 1 - NOT ALL SYMBOLS APPLY. REFER TO FLOOR PLANS AND DRAWINGS  
 NOTE: 2 - SYMBOLS ARE DIAGRAMMATIC IN NATURE. REFER TO SPECIFICATIONS/SCHEDULES FOR EXACT DIMENSIONS/CLEARANCES

4 AIR HANDLING SYMBOLS (MSD-012.09)

2 VALVES AND APPURTENANCES (MSD-012.06)

NO.	DATE	PARTICULAR
1	2026-03-17	ISSUED FOR PROGRESS REVIEW
2	2026-03-25	ISSUED FOR PROGRESS REVIEW
3	2026-03-27	ISSUED FOR TENDER

NOTES:

**PRELIMINARY**  
 NOT TO BE USED FOR CONSTRUCTION



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 519.952.8588 www.smithandandersen.com

KEY PLAN:

CLIENT:

WATERLOO CATHOLIC DISTRICT SCHOOL BOARD



PROJECT:

26009.001

ST. ANNE CES (Kitchener)

250 EAST AVENUE, KITCHENER, ON N2H 1Z4

ORIGINAL PAGE SIZE ARCH D - 24" x 36"

KEY TO DETAIL LOCATION:  
 A - DETAIL NO.  
 B - DETAIL NO. ORIGIN

**+VVG ARCHITECTS**  
 THE VENTIN GROUP LTD



MO.1









1. GENERAL

- 1.1 THE DRAWINGS AND SPECIFICATIONS SHALL BE READ IN CONJUNCTION WITH BASE BUILDING DRAWINGS AND SPECIFICATIONS...
1.2 THIS SPECIFICATION IS INTENDED TO BE A COMPLIMENT TO, AND MUST BE READ IN CONJUNCTION WITH ALL APPLICABLE CODES, STANDARDS, REGULATIONS AND BY-LAWS RELATING TO THE PRESENT WORK...
1.3 GENERAL CONTRACTOR'S RESPONSIBILITY SHALL INCLUDE, BUT NOT LIMITED TO...
1.4 PERMITS AND FEES: APPLY FOR, OBTAIN AND PAY FOR ALL REQUIRED PERMITS, LICENSES, INSPECTIONS AND NEW UTILITY CONNECTION APPLICATIONS REQUIRED PRIOR TO COMMENCEMENT OF CONSTRUCTION...
1.5 ALL WORK MUST COMPLY WITH THE LANDLORDS GUIDELINES WHERE APPLICABLE...
1.6 ALL MATERIAL INSTALLED IN NON-COMBUSTIBLE BUILDINGS AND IN RETURN AIR CEILING PLENUMS SHALL MEET 25/50 FLAME/SMOKE SPREAD/DEVELOPMENT REQUIREMENTS...
1.7 THE WORD "PROVIDE" SHALL MEAN "SUPPLY, INSTALL, CONNECT AND TEST"...
1.8 ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE APPROVED CONSTRUCTION SCHEDULE AND ALL SPECIFIED INTERIM SCHEDULES...
1.9 UNLESS NOTED OTHERWISE ON THE PLANS, GENERAL INTENT OF THE DESIGN IS TO CLEAN AND REUSE EXISTING DIFFUSERS, GRILLES, TERMINAL UNITS, THERMOSTATS, SPRINKLER HEADS, ETC...
1.10 TENDER SUBMISSION...
1.11 GENERAL SCOPE AND COORDINATION...

- 20. PROVIDE ALL RIGGING AS MAY BE REQUIRED FOR ALL SYSTEM MATERIALS AND EQUIPMENT...
21. PROVIDE A COMPLETE ITEMIZED COST BREAKDOWN OF ALL MATERIALS, EQUIPMENT AND LABOUR COSTS ASSOCIATED WITH EACH SUBMISSION...
22. EACH CONTRACTOR SHALL TAKE OUT ALL NECESSARY FIRE AND LIABILITY INSURANCE...
23. PROTECT ALL MATERIALS STORED ON SITE, INCLUDING THE LANDLORD'S MATERIAL...
24. COORDINATION WITH DIVISION 16...
25. TEMPORARY PROVISIONS...

- 26. INSPECTION AND CLOSE-OUT DOCUMENTS...
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- 4.10 PLUMBING PIPES INSULATION...
1. UNLESS BASE BUILDING STANDARDS ARE MORE STRINGENT, PIPE INSULATION SHALL BE FIBERGLASS WITH VAPOR BARRIER...
2. TEST SEAL AND INSPECT ALL DUCTS BEFORE INSULATION...
3. VENT PIPE: 1" (25mm) THICK...
4. CONDENSATE PIPE: 3/4" (20mm) THICK...
5. HEATING, CHILLED, CONDENSER AND HEAT PUMP WATER...
6. GAS PIPING...
7. TRAP PRIMER OPERATION...
8. MOTORIZED DAMPER/ACTUATOR, VAV AND FFB CONTROLS OPERATION...
9. FANS, HEATING AND COOLING UNITS OPERATION...
10. POWER TO ALL UNITS INCLUDING HOT WATER TANKS AND HEATERS...
11. SPRINKLER PIPING...
12. MEDIUM PRESSURE DUCTWORK...
13. FIRE DAMPERS AND SMOKE DAMPERS...
14. REFRIGERANT SYSTEM...
15. ALL TESTS MUST BE RECORDED AND SUBMITTED TO THE ENGINEER FOR REVIEW...

6. TESTING, RECORD DRAWING, AND COMMISSIONING

- 6.1 TESTING...
6.2 RECORD DRAWINGS...
6.3 O&M MANUAL...
6.4 COMMISSIONING...
6.5 CLEANING...
6.6 FLOOR DRAIN...
6.7 PLUMBING PIPES MATERIAL...
6.8 PRODUCTS...
6.9 FINISHED AREAS...
6.10 NON-FINISHED AREAS...
6.11 EXECUTION...
6.12 EXECUTION...
6.13 EXECUTION...
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4. PLUMBING

- 4.1 CONTRACTOR SHALL BE FAMILIAR WITH LOCAL CODE VARIANCES AND REQUIREMENTS...
4.2 HANGERS AND RISER SUPPORTS...
4.3 PIPING SYSTEM DISINFECTION, FLUSH AND TEST...
4.4 ALL PLUMBING FIXTURES, WHERE INDICATED ON PLAN...
4.5 ALL CLEAN-OUTS SHALL BE PROVIDED AND ACCESSIBLE AS PER CODE...
4.6 SLOPE ALL DRAINS AND VENTS IN ACCORDANCE WITH THE PLUMBING CODE...
4.7 PROVIDE HEAT TRAPS AND EXPANSION TANKS ON HOT WATER TANKS...
4.8 PLUMBING PIPES MATERIAL...
4.9 PLUMBING VALVES...
4.10 PLUMBING PIPES MATERIAL...
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REVISIONS

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NOTES:

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KEY PLAN:



CLIENT: WATERLOO CATHOLIC DISTRICT SCHOOL BOARD

PROJECT: 26009.001

ST. ANNE CES (Kitchen)

250 EAST AVENUE, KITCHENER, ON N2H 1Z4

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