

CANADA REVENUE AGENCY  
MAIL PROCESSING ROOM - 1050 NOTRE DAME AVE., SUDBURY, ON  
MECHANICAL/TRAVAUX MECANIQUE

DRAWING LIST	
SYMBOL	DESCRIPTION
M1	MECHANICAL – DRAWING LIST, LEGENDS, SCHEDULES, SCHEMATICS & DETAILS
M2	MECHANICAL – FIRE PROTECTION AND PLUMBING DEMO
M3	MECHANICAL – FIRE PROTECTION AND PLUMBING NEW WORK
M4	MECHANICAL – HVAC DEMO
M5	MECHANICAL – HVAC NEW WORK

CONTROLS LEGEND	
SYMBOL	DESCRIPTION
	LOW VOLTAGE CONTROL WIRING
	PNEUMATIC THERMOSTAT
	TEMPERATURE SENSOR
	HUMIDITY SENSOR
	PRESSURE SENSOR
	PRESSURE DIFFERENTIAL SWITCH
	CARBON DIOXIDE SENSOR
	DIFFERENTIAL PRESSURE SENSOR
	DDC CONTROL POINT

FIRE PROTECTION LEGEND	
SYMBOL	DESCRIPTION
	FIRE STANDPIPE
	SPRINKLER PIPE
	SEMI-RECESSED SPRINKLER
	UPRIGHT SPRINKLER
	PIPE UP
	PIPE DOWN
	FIRE EXTINGUISHER C/W MOUNTING BRACKET
	FIRE HOSE CABINET

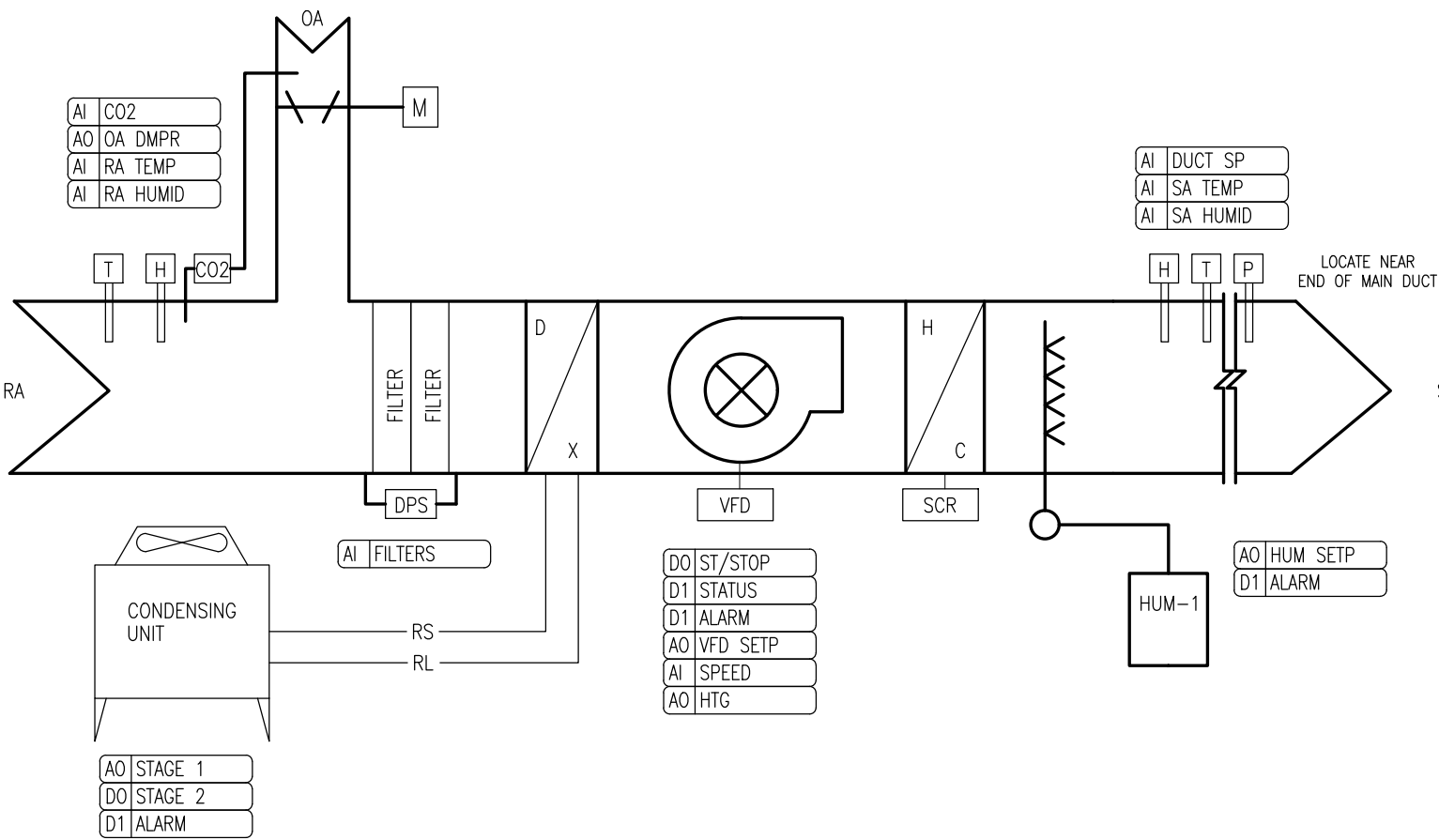
PLUMBING/UTILITIES LEGEND	
SYMBOL	DESCRIPTION
	PIPING BELOW GRADE/SLAB
	REFRIGERANT LIQUID
	REFRIGERANT SUCTION
	DOMESTIC COLD WATER PIPING
	DOMESTIC HOT WATER PIPING
	SANITARY PIPING
	STORM PIPING
	VENT PIPING
	COMPRESSED AIR PIPING
	PIPING OFFSET
	BRANCH PIPING DOWN
	PIPING DOWN
	PIPING UP
	REDUCER
	FLOW DIRECTION
	PIPE BREAK
	CAP
	P-TRAP
	FLOOR CLEAN OUT
	ISOLATION VALVES
	COMPRESSED AIR OUTLET (QUICK-CONNECT)

HVAC LEGEND	
SYMBOL	DESCRIPTION
	RECTANGULAR DUCTWORK
	ROUND DUCTWORK
	ACOUSTICALLY LINED DUCTWORK (RETURN OR SUPPLY)
	THERMALLY INSULATED DUCTWORK (RETURN OR SUPPLY)
	SILENCER (SIL)
	ROUND DUCTWORK OFFSET
	RECTANGULAR DUCTWORK OFFSET
	DUCTWORK UP
	DUCTWORK DOWN
	RECTANGULAR TO ROUND TRANSITION
	ECCENTRIC RECTANGULAR TO ROUND TRANSITION
	ECCENTRIC TRANSITION
	RECTANGULAR TAKE-OFF C/W BALANCING DAMPER
	RECTANGULAR TAKE-OFF
	ROUND TAKE-OFF C/W BALANCING DAMPER
	ROUND TAKE-OFF
	TAKE-OFF C/W BALANCING DAMPER
	TAKE-OFF
	SQUARE SUPPLY DIFFUSER (TYPE)
	COFFERED CEILING BOOT
	RETURN GRILLE (RG)
	FIRE DAMPER (FD)
	BALANCING DAMPER (BD)
	FLEXIBLE CONNECTION
	TURNING VANES
	ACCESS DOOR
	MOTORIZED DAMPER
	VARIABLE AIR VOLUME BOX (VAV)
	DIFFUSER TAG
	DIFFUSER TYPE
	AIRFLOW (L/S)
	SIZE (mm)
	GRILLE TAG
	GRILLE TYPE
	AIRFLOW (L/S)
	DIMENSIONS (mm)

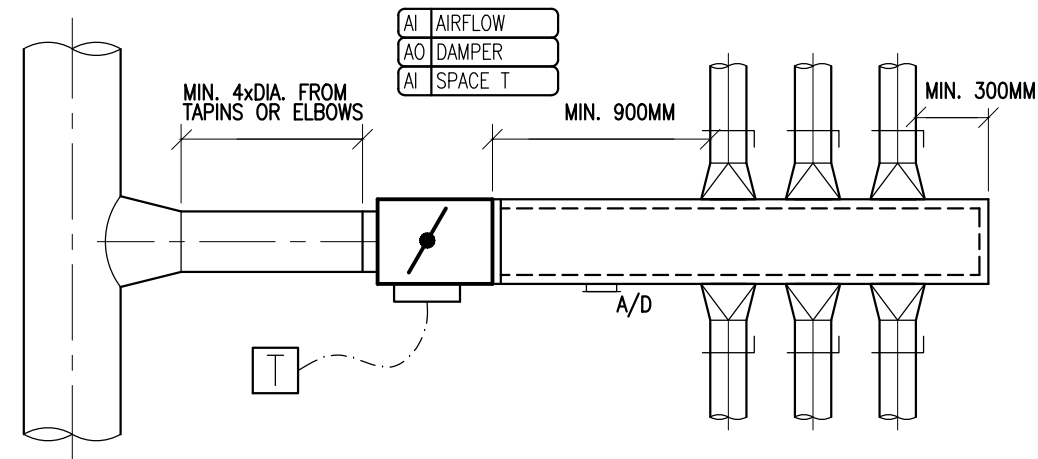
HUMIDIFIER SCHEDULE											
UNIT NO.	LOCATION	FUNCTION	TYPE	AIR FLOW (L/S)	CAPACITY (KG/HR)	EAT (°C)	ABSORPTION DISTANCE (M)	ELECTRICAL		SAFETIES	REMARKS
								V/PH/Hz	AMPS.		
HUM-1.1	PENTHOUSE	AHU-1	ELECTRIC RESISTANCE	3,000	10	12.8/9.6	0.5	575/3/60	7.4	AIR PROVING SWITCH & HIGH LIMIT STAT	C/W MANIFOLD INSTALLED IN SUPPLY AIR DUCT AND STEAM PIPING.
NOTES: 1. SPACE DESIGN TO BE 21°C @ 40% RH											

CONDENSING UNIT SCHEDULE								
TAG	LOCATION	FUNCTION	AMBIENT TEMP. (°C)	CAPACITY (kW)	STAGES	ELECTRICAL DATA		REMARKS
						MCA/MOC	V/PH/Hz	
C1	GROUND OUTSIDE	AHU 1	35	58.2	1xDIGITAL 1xON/OFF	31.1/45	575/3/60	—ULTRA LOW AMBIENT —40°C
NOTES: 1. FOR DETAILS REFER TO SPECIFICATIONS.								

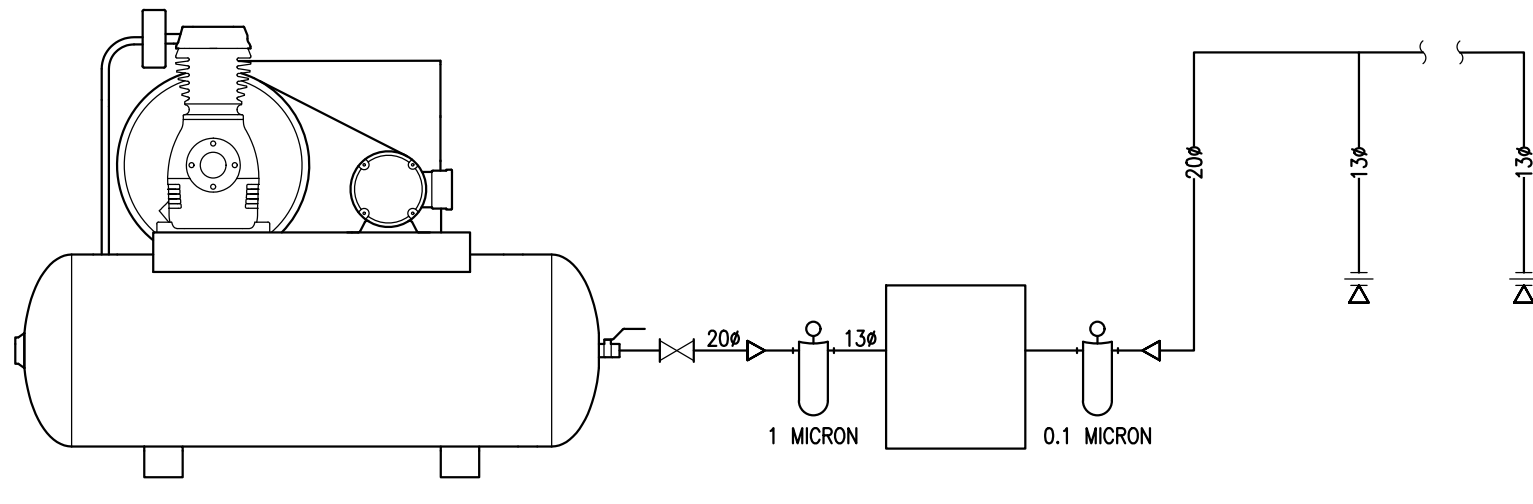
AIR HANDLING UNIT SCHEDULE																															
TAG	LOCATION	AREA SERVED	SUPPLY FAN DATA (VSD)				FILTERS		ELECTRIC HEATING SECTION				DX COOLING COIL DATA				ELECTRICAL DATA		DIMENSIONS			SOUND POWER LEVEL (dB)							REMARKS		
			FAN TYPE	AIR FLOW (L/s)	EXTERNAL STATIC PRESSURE (Pa)	TOTAL STATIC PRESSURE (Pa)	MOTOR SIZE (HP)	PRE-FILTER	FINAL FILTER	CAPACITY (kW)	E.A.T. (°C)	L.A.T. (°C)	STAGES	TOTAL CAPACITY (kW)	SENSIBLE CAPACITY (kW)	E.A.T. (DB/WB) (°C)	L.A.T. (DB/WB) (°C)	STAGES	FLA/MCA/MOC	V/PH/Hz	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)								
																								OCTAVE BAND	63	125	250	500		1000	2000
AHU 1	MECH ROOM	MAIL PROCESSING	FC	3000	375	605	5	MERV 8	MERV 13	15	16	20	1	56.4	37.2	24.2/18.8	14.3/13.4	2	21/26/30	575/3/60	1400	1700	1200	DISCHARGE LW(dB)/RETURN LW(dB)	90/87	91/88	88/85	85/82	84/81	82/79	C/W VFD ON SA FAN
NOTES: 1. FOR DETAILS REFER TO SPECIFICATIONS.																															



1  
M1  
AIR HANDLING UNIT (AHU) SCHEMATIC  
N.T.S.



2  
M1  
VAV DETAIL  
N.T.S.



3  
M1  
COMPRESSOR DETAIL  
N.T.S.

Contractor to verify all dimensions & conditions on site and immediately notify the departmental representative of all discrepancies.

1	ISSUED FOR TENDER	2017/08/30
0	ISSUED FOR REVIEW	2017/06/16

revisions	description	date
A	A detail no. no. du detail	
B	B location drawing no. sur dessin no.	
C	C drawing no. dessin no.	

project  
CANADA REVENUE AGENCY  
MAIL PROCESSING ROOM  
1050 NOTRE DAME AVE.,  
SUDBURY, ON.

drawing  
MECHANICAL  
DRAWING LIST,  
LEGENDS, SCHEDULES,  
SCHEMATICS & DETAILS  
dessin

Designed By	S.HAMILTON	Conçu par	
Date		(yyyy/mm/dd)	
Drawn By	J.GIBERSON	Dessiné par	
Date		(yyyy/mm/dd)	
Reviewed By	S.HAMILTON	Examiné par	
Date		(yyyy/mm/dd)	
Approved By	S.HAMILTON	Approuvé par	
Date		(yyyy/mm/dd)	
Tender	CRIS BORS	Soumission	
Project Manager	Administrateur de projets		
Project no.		No. du projet	
	R.087411.001		
Drawing no.		No. du dessin	
	M1		