PIPEWORK	(AND FITTINGS	VALVES	
	PIPEWORK IN CEILING VOID (IN SINGLE LINE ONLY)	×	ISOLATING VALVE
	PIPEWORK AT HIGH LEVEL (IN SINGLE LINE ONLY)	GV	GAS ISOLATING VALVE
	PIPEWORK AT LOW LEVEL (IN SINGLE LINE ONLY)	sv H	STOP COCK
	PIPEWORK IN FLOOR DUCT/TRENCH (IN SINGLE LINE ONLY)	BV	BUTTERFLY VALVE
o	PIPE VERTICAL RISE	► NRV	NON RETURN VALVE
•	PIPE VERTICAL FALL	DCV DCV	DOUBLE CHECK VALVE
•	PIPE, FLUE, CIRCULAR DUCT IN SECTION	RPZ ♥ ♥ ♥	REDUCED PRESSURE VALVE
	DIRECTION OF FLOW	LS	LOCK SHIELD VALVE
	PIPE GRADIENT	DRV	DOUBLE REGULATING VALVE
Å Å	PIPE ANCHOR	VO	VARIABLE ORIFICE DOUBLE REGULATING VALVE
ą.	UNION COUPLING	CS	FLOW MEASURING (OR COMMISSIONING) STATION
11	FLANGE COUPLING	PDV	PRESSURE DIFFERENTIAL BYPASS VALVE
FC	HOSE UNION	M	EXPANSION VALVE
FC Իտով	FLEXIBLE CONNECTION FOR PIPEWORK	PRV	PRESSURE REDUCING VALVE
\bigcap	OPEN VENT	•	BALL FLOAT VALVE
XAV	AIR VENT (MANUAL)	•	BALL FLOAT VALVE (DELAYED ACTION)
	AIR VENT (MANUAL) WITH AIR BOTTLE		LANDING OUTLET VALVE
	AUTOMATIC AIR VENT	— 🗆 н	EXTERNAL FIRE HYDRANT
	DIRT POCKET/DRAIN POINT	RV	RADIATOR VALVE (FLOW)
Ň	TUNDISH WITH TRAP	LSV	RADIATOR LOCK SHIELD VALVE
T DC	DRAIN COCK	TRV	THERMOSTATIC RADIATOR VALVE
STR	STRAINER	S V ■	SAFETY VALVE
STR	STRAINER WITH BLOW DOWN COCK	sc M	THREE WAY SAFETY COCK
∙ ۲ ۹ ۲	TEMPERATURE SENSOR	MV L	3 PORT ELECTRIC/ELECTRONIC CONTROL MIXING VALVE (SCREWED PORTS)
ዋቦ	PRESSURE SENSOR		2 PORT ELECTRIC/ELECTRONIC CONTROL VALVE (SCREWED PORTS)
ዯsp	STATIC PRESSURE SENSOR	GSV	GAS SOLENOID VALVE
የ ም	VELOCITY PRESSURE SENSOR		4 PORT ELECTRIC CONTROL VALVE
φ	TEMPERATURE GAUGE	E TMV	THERMOSTATIC MIXING VALVE
P	PRESSURE GAUGE	PUMPS A	ND THEIR CONTROLS
@ _⊀™	STATIC PRESSURE GAUGE		DUTY PUMP
ו דף	TEST POINT	\bigcirc	STANDBY PUMP
0	FLOW MEASURING		IN-LINE TWIN HEAD PUMP WITH INTEGRAL NON-RETURN VALVE
	ORIFICE PLATE	FS	FLOW SWITCH
ı IMI	WATER METER	– <u>др</u> –	PRESSURE DIFFERENTIAL SWITCH
ırı II⊡I	GAS METER	HEAT EM	MITTERS
			RADIATOR
		••	UNDERFLOOR MANIFOLD
0	SIGHT GLASS		RADIANT PANEL

•

FAN CONVECTOR

NATURAL CONVECTOR

TAPS & ASSOCIATED FITTINGS tap (potable) sink mounted

0	TAP (NON-POTABLE) SINK MOUNTED
₀	TAP (POTABLE) WALL MOUNTED
d 	TAP (NON-POTABLE) WALL MOUNTED
Å ⊢∙	LABORATORY TAP (POTABLE)
Ho Ho	LABORATORY TAP (NON-POTABLE)
Ъ	LABORATORY SWAN NECK TAP
G⊢	LABORATORY GAS TAP

VENTILATION FITTINGS AND DUCTWORK

	DUCTWORK IN CEILING VOID (IN SINGLE LINE ONLY)
	DUCTWORK AT HIGH LEVEL (IN SINGLE LINE ONLY)
	DUCTWORK AT LOW LEVEL (IN SINGLE LINE ONLY)
<u></u>	DUCTWORK IN FLOOR VOID (IN SINGLE LINE ONLY)
\succ	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
	SUPPLY AIR DUCT (CROSS-SECTION)
\bowtie	EXTRACT AIR DUCT (CROSS-SECTION)
	ACCESS PANEL (PLAN VIEW)
	GRILLE WITH SHOE BRANCH (SINGLE LINE)
	MITRE BEND WITH TURNING VANE
5	MEDIUM/LONG RADIUS BEND (AS INDICATED)
	SECTION OF DUCTWORK
	CANVAS/FLEXIBLE CONNECTION IN DUCTWORK
FD	FIRE OR SMOKE DAMPER (AS INDICATED)
VCD	VOLUME CONTROL DAMPER
↓ MD ↓ ↓ ↓	MOTORISED DAMPER WITH OPPOSED BLADES
	NON RETURN DAMPER
	DUCT MOUNTED THERMOSTAT
	REMOTE MOUNTED THERMOSTAT
	DUCT MOUNTED HUMIDSTAT
	REMOTE MOUNTED HUMIDISTAT
	COMBINED ACCESS PANEL AND VOLUME CONTR

COMBINED ACCESS PANEL AND VOLUME CONTROL DAMPER

	No	15				
	1	THIS DRAWING IS NOT TO BE	SCALE	D.		W11-1 +
ACCESS PANEL	2	THIS DRAWING IS TO BE READ ALL RELEVANT ARCHITECTURAL	IN CO DRAW	UNJUNC INGS.	TION	WITH
TEST HOLES	3	THIS DRAWING IS TO BE READ ALL RELEVANT STRUCTURAL EN	IN CO	ONJUNC RS DRAV	TION WINGS	WITH S.
GRILLE (ELEVATION)		ALL RELEVANT SERVICES DRAW RELEVANT SECTIONS OF THE SI SCHEDULES.	INGS / PECIFI	AND THE CATION	AND	Ti
GRILLE (PLAN VIEW)	5	THIS IS NOT AN INSTALLATION COORDINATION DRAWING.	DRAWI	ING, NO	RA	
MOISTURE ELIMINATORS	6	ABBREVIATIONS: AAV AUTOMATIC AIR VENT	Г			
SMOKE DETECTOR, DUCT MOUNTED		AP ACCESS PANEL C CONDENSATE CHW CHILLED WATER COND CONDENSER WATER	-			
CARBON DIOXIDE DETECTOR		CS COMMISSIONING STA CWS COLD WATER SERVIC CT CONSTANT TEMPERAT DC DRAIN COCK	TURE	15		
CENTRIFUGAL FAN		UKV DOUBLE REGULATING DWS DRINKING WATER SE ED EXTRACT DIFFUSER EG EXTRACT GRILLE	, VALV RVICE	/L		
AXIAL FLOW FAN		FCU FAN COIL UNIT F & R FLOW AND RETURN F & E FEED & EXPANSION FA FROM ABOVE				
HUMIDIFIER		FB FROM BELOW FD FIRE DAMPER GC GAS COCK GSV GAS SOLENOID VALM	Ē			
WINDOW/WALL MOUNTED AXIAL EXTRACT FAN		HL HIGH LEVEL HTG HEATING HWS HOT WATER SERVICE IV ISOLATING VALVE				
TWIN AXIAL FAN UNIT		LL LOW LEVEL LPHW LOW PRESSURE HOT LTHW LOW TEMPERATURE LSV LOCK SHEED VALVE	r wate Hot v	ER Vater		
		MH MANHOLE MWS MAIN WATER SERVIC NRV NON RETURN VALVE	E			
HEATER BATTERY		U/F OVERFLOW O/V OPEN VENT PRV PRESSURE REDUCIN RWP RAIN WATER PIPE	G VAL	VE :		
COOLER BATTERY		SC STOP COCK SD SUPPLY DIFFUSER SG SUPPLY GRILLE SMD SMOKE DAMPER				
PANEL FILTER		(S)RWP SYPHONIC RAINWATE SRWO SYPHONIC RAINWATE ST STRAINER SV SAFETY VALVE	ir pip Ter ol	'E UTLET		
VAV BOX WITH ELECTRIC REHEATER		TA TO ABOVE TB TO BELOW TG TRANSFER GRILLE	\TOP '			
AIR TRANSFER GRILLE		V VOLUME FLOW RATE VCD VOLUME CONTROL D VCD VOLUME CONTROL D VT VARIABLE TEMPERATI	AMPEI URE	∽⊾⊻⊑ R		
SLOT DIFFUSER						
SUPPLY AIR						
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ATTENUATOR		2 6 MAR] [] 200	E		
BAG FILTER			agen d e an an tara	**************************************		
CROSS FLOW RECUPERATOR	то	Tender Issue		08/01 2007	MJJ	WB
THERMAL WHEEL	P0 Re	PRELIMINARY ISSUE		2006 Date	MB By	WB Chk
INDIRECT GAS FIRED AIR HEATER BATTERY	F	TENDEF	 २			
RUN-AROUND COIL/HEAT PUMP	F		<u> </u>			
LOUVRE		ST STEPHENS (HAMPSTE		JKC	1	
MOTORISED DAMPER	┡	••••••••••••••••••••••••••••••••••••••				
ELECTRICAL HEATER BATTERY		W	hit	:by) !!!!	đ
Humidifier		tel 020 7631 5291 fax 020 7323 464	5 lond W	lon@whitb ww.whitb	ybird.c ybird.c	om om
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2	THIS DRAWING IS WITH ALL RELEVA	TO BE READ IN CO INT ARCHITECTURAL)njunc Drawin	TION IGS.	
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6 ⁻ 1	THIS DRAWING SI WITH THE WB ME LEGEND DRAWING	HALL BE READ IN CO CHANICAL SERVICES No. 3535/M/001.	onjun(Symb(ction DLS	
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VENTILATION SCHEMATIC					
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	Notes
	1 THIS DRAWING IS NOT TO BE SCALED.
	2 THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTURAL DRAWINGS.
	3 THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT STRUCTURAL ENGINEERS DRAWINGS.
	4 THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT SERVICES DRAWINGS AND THE RELEVANT SECTIONS OF THE SPECIFICATION AND SCHEDULES
	5 THIS IS NOT AN INSTALLATION DRAWING, NOR A
	COORDINATION DRAWING.
	6 THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE WB MECHANICAL SERVICES SYMBOLS
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EXTRACT LOUVRE	TO1 TENDER ISSUE 08/01 MJJ WB
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CIRCUIT FLOW & RETURN ER	TENDER
mmø 740mmH) BOOSTER	ST STEPHENS CHURCH HAMPSTEAD
	whitbybird
	tel 020 7631 5291 fax 020 7323 4645 london@whitbybird.com www.whitbybird.com
	MECHANICAL SERVICES PLANTROOM LAYOUT
	Scale: Date: Drawn: Checked 1:20 @ A1 19/12/2006 MJJ WB
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