VENTILATION PLANT

---	FLEXIBLE DUCT CONNECTION
---	CIRCULAR DUCTWORK – END
---	RECTANGULAR DUCTWORK – END
---	TRANSITION – RECTANGULAR TO CIRCULAR DUCTS
---	RADIUS BEND
AD	ACCESS DOOR IN DUCTWORK
SG	SUPPLY AIR GRILLE
R/ER	RETURN/EXTRACT AIR REGISTER – DUCT MOUNTED
SL	LOUVRE
---	SUPPLY AIR TERMINAL
---	EXTRACT AIR TERMINAL
---	FIRE DAMPER
---	SMOKE DAMPER
SG	SUPPLY AIR GRILLE – SQUARE
EG	EXTRACT AIR GRILLE – SQUARE
RE	SUPPLY AIR GRILLE – ROUND
RS	EXTRACT AIR GRILLE – ROUND
PF	PANEL FILTER
BF	BAG FILTER
HC	HEATING COIL/PRE HEATING COIL
CC	COOLING COIL
AT	ATTENUATOR
ES	MIST ELIMINATOR SECTION
EF	ROOF MOUNTED EXTRACT FAN
HU	SPRAY HUMIDIFIER
CT	COOLING TOWER
NRD	NON RETURN DAMPER
VCD	OPPOSED BLADE DAMPER
RC	ROOF COWL/VENT
SG	LINEAR SUPPLY GRILLE
EG	LINEAR EXTRACT GRILLE
DTG	DOOR TRANSFER GRILLE
---	DUCT DROP – PLAN
---	DUCT DROP – SECTION
CF	CENTRIFUGAL FAN – SUPPLY/EXTRACT/RETURN
AF	AXIAL FAN

AP	ACCESS PANEL
HF	HEPA FILTER
CU	CONDENSER UNIT – ELEVATION
	CONDENSER UNIT – PLAN
CCU	CEILING CASSETTE UNIT – SECTION
	CEILING CASSETTE UNIT – PLAN

HEATING PLANT...

IV	ISOLATING/GATE VALVE
---	CHECK VALVE
NRV	NON RETURN VALVE
PRV	PRESSURE REDUCING VALVE
DRV	DOUBLE REGULATING VALVE
GLV	GLOBE VALVE
EG	DEAD WEIGHT FIRE VALVE
RE	4 WAY VALVE
SRV	SAFETY RELIEF VALVE
SRV	SAFETY RELIEF VALVE
---	EXPANSION VALVE
TMV	THERMOSTATIC MIXING VALVE
TRV	THERMOSTATIC RADIATOR VALVE
LSV	LOCKSHIELD/ANGLE VALVE
---	2 PORT MOTORISED ISOLATING VALVE
CV	3 PORT MOTORISED CONTROL VALVE
---	3 WAY DIRECT ACTING VALVE
SSV	GAS SLAM SHUT FIRE VALVE
FODRV	FIXED ORIFICE DOUBLE REGULATING VALVE
MV	MIXING VALVE
AAV	AUTOMATIC AIR VENT
MAV	MANUAL AIR VENT
---	ANTI VACUUM VALVE
DC	DRAIN COCK
GG	GAS GOVERNOR
---	QUICK CONNECT COUPLING
STR	STRAINER
---	UNION

...HEATING PLANT CONTINUED.

---	HOSE UNION
---	FLOW DIRECTION
A	ANCHOR POINT
PG	PIPE GUIDE
EXL/B	EXPANSION LOOP/BELLOWS
---	CAPPED/FLANGED END
TP	TEST/BINDER POINT
---	FLANGED CONNECTION
---	TUNDISH – TRAPPED
---	TUNDISH – TRAPLESS
---	OPEN VENT WITH INSECT GUARD
TI	TEMPERATURE INDICATOR
PI	PRESSURE INDICATOR
F	WATER FILTER
FC	ANTI VIBRATION COUPLING/FLEXIBLE CONNECTION
---	GAS METER
---	WATER METER
UH	UNIT HEATER – HORIZONTAL
---	FAN COIL UNIT
WT	WATER TANK
P	PUMP ASSEMBLY
P	TWIN PUMP ASSEMBLY
B	BOILER
EX	EXPANSION VESSEL
CH	CHILLER
GH	RADIANT TUBE GAS HEATER
R	RADIATOR
CFR	CALORIFIER VESSEL c/w IMMERSION HEATER
CFR	CALORIFIER – HORIZONTAL
DF	DUPLEX FILTER
HE	PLATE HEAT EXCHANGER
---	PIPE END – RISER
---	PIPE END – DROPPER
VAV	VARIABLE AIR VOLUME

FIRE SERVICES

	FIRE HOSE REEL – ELEVATION
	FIRE HOSE REEL – PLAN
FH	FIRE HYDRANT
FM	FIRE MAIN
	CO2 EXTINGUISHER
	FOAM EXTINGUISHER
	FM200 EXTINGUISHER
	WATER EXTINGUISHER
	WET CHEMICAL EXTINGUISHER
	POWDER EXTINGUISHER
	SPRINKLER – SIDE WALL
	SPRINKLER
	SPRINKLER – CONC. FACE
	SPRINKLER ON DROP
TEMP.	SPRINKLER HIGH TEMP. RATING
	SPRINKLER MULTIPLE JET CONTROL
	SPRINKLER OPEN
	SPRINKLER CONCEALED SPACE
	SPRINKLER SIDE WALL IN SECTION
	SPRINKLER SPRAY NOZZLE
	SPRINKLER UNDER DUCT
	SPRINKLER UPRIGHT
	SPRINKLER SIDE WALL

CONTROLS & INSTRUMENTATION...

C/P	CONTROL PANEL
MCC	MOTOR CONTROL CENTRE
	CONTROL PANEL – BY ELECTRICAL
	B.M.S. CONTROLLED INSTRUMENT
	PANEL/LOCAL CONTROLLED INSTRUMENT
PDS	PRESSURE DIFFERENTIAL SWITCH
PDI	PRESSURE DIFFERENTIAL INDICATOR
TS	TEMPERATURE SENSOR
PS	PRESSURE SENSOR
PT	PRESSURE STAT.
FT	FROST STAT.

...CONTROLS & INST. CONTINUED.

AFS	AIR FLOW SWITCH
WFS	WATER FLOW SWITCH
LS	LEVEL SWITCH
TT	THERMOSTAT

ABBREVIATIONS

FR	FLOW RETURN
HWS	HOT WATER SUPPLY
HWR	HOT WATER RETURN
CHW	CHILLED WATER
LPH	LOW PRESSURE HOT WATER
DW	DRINKING/POTABLE WATER
MWS	MAINS WATER SERVICE
CWS	COLD WATER SERVICE
CA	COMPRESSED AIR
ST	STEAM
CON	CONDENSATE
SP	SPRINKLER
OF	OVERFLOW
TA/FA	TO ABOVE/FROM ABOVE
TB/FB	TO BELOW/FROM BELOW
HL/LL	HIGH LEVEL/LOW LEVEL
GL	GROUND LEVEL
AFFL	ABOVE FINISHED FLOOR LEVEL
F&E	FEED & EXPANSION
FAI	FRESH AIR INTAKE
TH	TRACE HEATING
NO	NORMALLY OPEN
NC	NORMALLY CLOSED
AC	ACETYLENE
AR	ARGON
HE	HELIUM
HA	HI PURITY AIR
HY	HYDROGEN
LPG	LIQUIFIED PETROLEUM GAS
NG	NATURAL GAS
NI	NITROGEN
NO	NITROUS OXIDE
OX	OXYGEN
—— · · ——	HIGH LEVEL HIDDEN PIPEWORK (IN CEILING VOID)
— · — · — · —	HIGH LEVEL EXPOSED PIPEWORK
.....	HIDDEN PIPEWORK RUN BENEATH FLOOR LEVEL
————	LOW LEVEL SURFACE RUN PIPEWORK
//////////	EXISTING PIPES TO BE REMOVED

REVISIONS

DATE	REV	BY	DETAILS
XX/XX/XX	XX	XX	XXXXXX

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PROJECT
CRECHE BUILDING
ACDAL
ALLENWOOD, CO. KILDARE

DRAWING TITLE
MECHANICAL SERVICES
SYMBOLS SHEET

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