

REVISIONS

DATE	REV	BY	DETAILS
02/01/11	01	XX	XXXXXX

VENTILATION PLANT

...HEATING PLANT CONTINUED.

FIRE SERVICES

...CONTROLS & INST. CONTINUED.

---		FLEXIBLE DUCT CONNECTION	AP		ACCESS PANEL
---		CIRCULAR DUCTWORK - END	HF		HEPA FILTER
---		RECTANGULAR DUCTWORK - END	CU		CONDENSER UNIT - ELEVATION
---		TRANSITION - RECTANGULAR TO CIRCULAR DUCTS			CONDENSER UNIT - PLAN
---		RADIUS BEND	CCU		CEILING CASSETTE UNIT - SECTION
AD		ACCESS DOOR IN DUCTWORK			CEILING CASSETTE UNIT - PLAN
SG		SUPPLY AIR GRILLE	HEATING PLANT...		
R/ER		RETURN/EXTRACT AIR REGISTER - DUCT MOUNTED	IV		ISOLATING/GATE VALVE
SL		LOUVRE	---		CHECK VALVE
---		SUPPLY AIR TERMINAL	NRV		NON RETURN VALVE
---		EXTRACT AIR TERMINAL	PRV		PRESSURE REDUCING VALVE
---		FIRE DAMPER	DRV		DOUBLE REGULATING VALVE
---		SMOKE DAMPER	GLV		GLOBE VALVE
SG		SUPPLY AIR GRILLE - SQUARE	EG		DEAD WEIGHT FIRE VALVE
EG		EXTRACT AIR GRILLE - SQUARE	RE		4 WAY VALVE
RE		SUPPLY AIR GRILLE - ROUND	SRV		SAFETY RELIEF VALVE
RS		EXTRACT AIR GRILLE - ROUND	SRV		SAFETY RELIEF VALVE
PF		PANEL FILTER	---		EXPANSION VALVE
BF		BAG FILTER	TMV		THERMOSTATIC MIXING VALVE
HC		HEATING COIL/PRE HEATING COIL	TRV		THERMOSTATIC RADIATOR VALVE
CC		COOLING COIL	LSV		LOCKSHIELD/ANGLE VALVE
AT		ATTENUATOR	---		2 PORT MOTORISED ISOLATING VALVE
ES		MIST ELIMINATOR SECTION	CV		3 PORT MOTORISED CONTROL VALVE
EF		ROOF MOUNTED EXTRACT FAN	---		3 WAY DIRECT ACTING VALVE
HU		SPRAY HUMIDIFIER	SSV		GAS SLAM SHUT FIRE VALVE
CT		COOLING TOWER	FODRV		FIXED ORIFICE DOUBLE REGULATING VALVE
NRD		NON RETURN DAMPER	MV		MIXING VALVE
VCD		OPPOSED BLADE DAMPER	AAV		AUTOMATIC AIR VENT
RC		ROOF COWL/VENT	MAV		MANUAL AIR VENT
SG		LINEAR SUPPLY GRILLE	---		ANTI VACUUM VALVE
EG		LINEAR EXTRACT GRILLE	DC		DRAIN COCK
DTG		DOOR TRANSFER GRILLE	GG		GAS GOVERNOR
---		DUCT DROP - PLAN	---		QUICK CONNECT COUPLING
---		DUCT DROP - SECTION	STR		STRAINER
CF		CENTRIFUGAL FAN - SUPPLY/EXTRACT/RETURN	---		UNION
AF		AXIAL FAN			

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

	FIRE HOSE REEL - ELEVATION
	FIRE HOSE REEL - PLAN
	FIRE HYDRANT
	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
	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...	
	CONTROL PANEL
	MOTOR CONTROL CENTRE
	CONTROL PANEL - BY ELECTRICAL
	B.M.S. CONTROLLED INSTRUMENT
	PANEL/LOCAL CONTROLLED INSTRUMENT
	PRESSURE DIFFERENTIAL SWITCH
	PRESSURE DIFFERENTIAL INDICATOR
	TEMPERATURE SENSOR
	PRESSURE SENSOR
	PRESSURE STAT.
	FROST STAT.

	AIR FLOW SWITCH
	WATER FLOW SWITCH
	LEVEL SWITCH
	THERMOSTAT

ABBREVIATIONS	
	FLOW RETURN
	HOT WATER SUPPLY
	HOT WATER RETURN
	CHILLED WATER
	LOW PRESSURE HOT WATER
	DRINKING/POTABLE WATER
	MAINS WATER SERVICE
	COLD WATER SERVICE
	COMPRESSED AIR
	STEAM
	CONDENSATE
	SPRINKLER
	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
F+R	FLOW AND RETURN PIPEWORK
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
----	LOW TEMPERATURE HOT WATER (HEATING)
----	MAINS WATER
----	COLD WATER
----	HOT WATER FLOW
----	HOT WATER RETURN
----	GAS

ENGINEERS IRELAND

TENDER

rmce
Mechanical & Electrical Engineering

RONAN MEALLY CONSULTING ENGINEERS LTD
1 City Wall, James Street
Kilkenny
Ireland
R95 XF97
Telephone: 056 7795428 email: info@rmce.ie

PROJECT
**COLAISTE EOIN
HACKETSTOWN
CO CARLOK**

DRAWING TITLE
**MECHANICAL SERVICES
SYMBOLS SHEET**

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