



- NOTES**
- ALL TRVs BASED ON "OVENTROP AV9" WITH THERMOSTATIC HEAD.
 - ALL EOL'S BASED ON "OVENTROP AV9".
- GENERAL NOTES**
- THE CONTRACTOR WILL FULLY COMPLY WITH ALL RELEVANT BRITISH STANDARDS, REGULATIONS, STANDARD CODES OF PRACTICE, METHODS OF WORKING, AND GOOD PRACTICE.
 - THE MECHANICAL CONTRACTOR IS RESPONSIBLE FOR FINAL CO-ORDINATION AND INSTALLATION OF ALL MECHANICAL SERVICES WITH ALL OTHER SERVICES AND THE BUILDING STRUCTURE.
 - ALL SERVICES WILL BE IDENTIFIED IN ACCORDANCE WITH BS 1710 AND GOOD ENGINEERING PRACTICE. PIPEWORK TO BE RAL 6003.
 - ALL VALVES SHALL BE PROVIDED AT EASILY ACCESSIBLE LOCATIONS AND AS INDICATED ON THE SCHEMATIC AND LAYOUT DRAWINGS.
 - ALL PIPEWORK TO BE PRESSURE TESTED PRIOR TO APPLICATION OF INSULATION.
 - ALL PIPEWORK IN PLANTROOM, RISERS, RECESSED AREAS, BOXING IN OR CEILING VOIDS SHALL BE THERMALLY INSULATED THROUGHOUT USING THE MATERIALS IN ACCORDANCE WITH THE MSE SPECIFICATION.
 - ALL PIPEWORK PENETRATING A WALL OR SLAB SHALL BE INSTALLED WITHIN A SLEEVE, WHETHER OR NOT THE WALL OR SLAB FORMS PART OF A FIRE COMPARTMENT. ALL CAVITIES AND RISERS WHICH CONTAIN GAS SERVICES SHOULD BE VENTILATED TO OCCUPIED AREAS TO PREVENT GAS BUILD UP.
 - DRAIN COCKS SHALL BE PROVIDED TO ALL LOW POINTS ON THE SYSTEM.
 - AUTOMATIC AIR VENTS SHALL BE PROVIDED TO ALL HIGH POINTS ON THE SYSTEM.
 - THE MECHANICAL CONTRACTOR SHALL ALLOW ALL ANCILLARIES NECESSARY TO SEAL WITH EXPANSION/CONTRACTION.
 - THE CONTRACTOR SHALL ENSURE ALL PIPEWORK PENETRATING A CAVITY BARRIER OR FIRE COMPARTMENT WALL/SLAB SHALL BE FIRE STOPPED AT THE POINT OF PENETRATION IN ORDER TO MAINTAIN THE INTEGRITY AND REQUIRED FIRE RESISTANCE OF THE FIRE COMPARTMENT.

LEGEND

AW	AUTOMATIC AIR VENT	IV	ISOLATING VALVE
CS	COMMISSIONING SET	EOL	END OF LINE VALVE
LV	LOCKSHIELD VALVE (90°)	X	DETAIL REFERENCE
TRV	THERMOSTATIC RADIAOR VALVE	T	THERMOSTAT
2PV	2 PORT CONTROL VALVE	FAN	FAN CONNECTOR HEATING COIL

FLUID PROPERTIES TABLE

MASS FLOW RATE (kg/s)	PRESSURE LOSS PER METER (Pa/m)	VELOCITY (m/s)	PIPE Ø (mm)
0.023			15
0.08			15
0.128			20
0.192			20
0.219			25
0.352			25
0.571			32
0.69			32
0.932			40
1.0			40
1.0			40
1.0			40

FRANKHAM
Frankham Consultancy Group Limited

Project Title: Euston Fire Station
Drawing Title: Mechanical Services Proposed Heating Schematic

Client: LFB LONDON FIRE BRIGADE

Drawn By: DK, DJ, AM, BP
Checked By: N.T.S.
Approved By: BP

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