



**NOTE**

ALL PIPEWORK TO BE THERMALLY INSULATED

CONTROLS SPECIALIST TO PROVIDE A FULLY AUTOMATIC CONTROLS SYSTEM FOR THE MECHANICAL SERVICES. ALL WORKS TO BE IN ACCORDANCE WITH 17TH EDITION REGS.

**PUMP SCHEDULE**

PUMP REF	TYPE	DUTY
DHWS R P1	SINGLE HEAD VARIABLE SPEED – BRONZE	2 L/S @ 50 KPA

**LEGEND**

	COMMISSIONING SET
	DOUBLE REGULATING VALVE
	ISOLATION VALVE
	AUTOMATIC AIR VENT
	GATE VALVE
	STOPCOCK
	DOUBLE CHECK VALVE
	DRAIN OFF COCK
	TEST POINT
	NON RETURN VALVE
	PRESSURE REDUCING VALVE
	STRAINER
	FLUSHING VALVE
	SAFETY VALVE
	AUTOMATIC BYPASS VALVE
	2–PORT MOTORISED VALVE
	3–PORT MOTORISED VALVE
	PRESSURE GAUGE
	TEMPERATURE GAUGE
	FLEXIBLE CONNECTION
	VARIABLE TEMPERATURE
	CONSTANT TEMPERATURE
	HOT WATER SERVICE FLOW
	HOT WATER SERVICE RETURN
	MAINS COLD WATER
	BOOSTED COLD WATER
	OVENTROP AQUASTROM VALVE

**Materials/Installation Notes**

**CDM NOTES:**

1. WORKING FROM HEIGHT – USE OF SAFE WORKING PLATFORMS TO BE USED.
2. WORKING AT HEIGHT – RISK OF TOOLS OR EQUIPMENT BEING DROPPED ONTO OPERATIVES BELOW – RESTRICT ACCESS TO AREAS DIRECTLY BELOW WHERE WORKS ARE BEING CARRIED OUT.
3. INSTALL SERVICES WITHIN CEILING AND CEILING/SERVICE VOIDS –RISK OF FALL, INHALATION OF DUST/FIBRES – SUITABLE USE OF SAFE PLATFORMS AND USE ADDITIONAL PPE IE DUST MASKS, GLOVES ETC.
4. USE OF HAZARDOUS MATERIALS – HAZARDOUS MATERIALS HAVE NOT BEEN SPECIFIED IN THE NEW WORKS. COSHH SHEETS TO BE PROVIDED WHERE APPLICABLE AND SUITABLE PPE TO BE USED BY STAFF.
5. MANUAL HANDLING OF PLANT AND EQUIPMENT – EQUIPMENT IS GENERALLY SMALL ENOUGH TO BE SUITABLE FOR MANUAL HANDLING. MECHANICAL MEANS TO BE USED TO LIFT LARGER ITEMS
6. CUTTING, DRILLING ETC. OF METALWORKS SUCH AS TRAY CONDUIT TRUNKING ETC – NORMAL SAFETY PROCEDURES TO BE USED, PROVIDE PROTECTIVE CLOTHING GOGGLES ETC.

**Legend**

**Revisions**

Rev.	Date.	Description	Init
P1	23-12-14	ISSUED FOR COMMENT/APPROVAL	L.S.
C1	05-01-15	ISSUED FOR CONSTRUCTION	N.S.

**Status**

**CONSTRUCTION**

**Project**

**SEEL STREET  
LIVERPOOL ONE**

**Title**

**MECHANICAL SERVICES SCHEMATIC**