



SYMBOL LEGEND:

AAV	AUTO AIR VENT
ABV	AUTO BYPASS VALVE
CS	COMMISSIONING SET
CV	CHECK VALVE
DCV	DOUBLE CHECK VALVE
F&R	FLOW AND RETURN
FC	FLEXIBLE CONNECTION
FBST	FILTERBALL STRAINER
GC	GAS COCK
HTG	HEATING
IV	ISOLATION VALVE
LSV	LOCK SHIELD VALVE
MCW	MAINS COLD WATER
PG	PRESSURE GAUGE
T	TEMPERATURE GAUGE
TP	TEST POINT
TS	TEMPERATURE SENSOR

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 - INDICATIVE SCHEMATIC DOES NOT DETAIL ALL PIPELINE/PLANT ACCESSORIES FOR FEASIBILITY REVIEW PURPOSES ONLY.
 - INDICATIVE SCHEME FOR EXTENSION OF EXISTING CHILLED WATER SYSTEM TO SERVE THE LIBRARY LEVEL A. LIBRARY LEVEL A TO BE SERVED VIA EXISTING CHILLER VIA NEW CHILLED WATER PUMP SET TO EXISTING CHILLER PLANT ROOM AND NEW CHILLED WATER RISER 150 TO BE INSTALLED & BLANKED OFF TO NEW RISER FOR FUTURE PIPEWORK EXTENSION WORKS WHEN ROOF MOUNTED CHILLER IS INSTALLED AND EXISTING CHILLERS DECOMMISSIONED.
 - INDICATIVE SCHEME DETAILS FUTURE ROOF MOUNTED AIR COOLED CHILLER TO COLLEGE BUILDING ROOF.
 - ROOF MOUNTED CHILLER PUMP SET, PRESSURISATION UNIT, BUFFER VESSEL LOCATION TO ROOF LEVEL/4TH FLOOR TO BE AGREED WITH SOAS SUBJECT TO FINAL CHILLER SELECTION ROOF SPACE PROVISION
 - CHILLED WATER PIPEWORK BASED ON CHILLED WATER FLOW & RETURN TEMPERATURES 6 & 12°C RESPECTIVELY. FINAL CHW PIPEWORK SIZES TO BE AGREED WITH SOAS R.E. FLOOR AREAS EXPECTING FUTURE COOLING PROVISION.
 - BUFFER VESSEL SIZING SUBJECT TO SYSTEM WATER CONTENT.
 - CHILLED WATER PIPEWORK TO BE HEAVYWEIGHT STEEL TUBE FLANGED JOINTS 65mm & ABOVE. SCREWED JOINTS 50mm & BELOW.
 - REFER TO DRAWING No 5974/M200 FOR FINAL INSTALLED SCHEME LAYOUT.

PRELIMINARY

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Project
SOAS UNIVERSITY of LONDON
RESEARCH BLOCK CHILLED WATER AND VENTILATION FEASIBILITY

Client
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Architect
KENDALL KINGSCOTT

Title
RESEARCH BLOCK
INDICATIVE CHW SCHEMATIC
INTERIM COOLING OPTION

Scale	NTS @ A1	Drawing no.	5974/M201
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