

NOTES:

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- 4. INDICATIVE SCHEMATIC DOES NOT DETAIL ALL PIPELINE/PLANT ACCESSORIES FOR FEASIBILITY REVIEW PURPOSES ONLY.
- 5. INDICATIVE SCHEME FOR ROOF MOUNTED AIR COOLED CHILLER TO COLLEGE BUILDING ROOF AND REMOVAL OF EXISTING BASEMENT PLANT ROOM CHILLERS. NEW SECONDARY CHILLED WATER CIRCUIT TO SERVE EXISTING BASEMENT PLANT ROOM CHILLED WATER LOW LOSS HEADER. EXISTING SECONDARY CHILLED WATER DISTRIBUTION TO BE RETAINED. NEW SECONDARY CHILLED WATER PUMP SET AND RISER FOR RESEARCH BLOCK, LIBRARY LEVEL A, FUTURE G2 REFURBISHMENT, PHILIPS BUILDING AREAS TBC.
- 6. EXISTING CHILLERS REPORTED NOT FULLY LOADED AT LESS THAN 150kW, ASSUME 125kW PEAK LOAD. INITIAL PEAK COOLING LOAD LEVEL A & RESEARCH BUILDING AT 30kW & 135kW RESPECTFULLY. TOTAL CONNECTED LOAD 290kW SAY 250kW PEAK LOAD.
- 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
- 8. 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.
- 9. BUFFER VESSEL SIZING SUBJECT TO SYSTEM WATER CONTENT.
- 10. CHILLED WATER PIPEWORK TO BE HEAVYWEIGHT STEEL TUBE FLANGED JOINTS 65mm & ABOVE. SCREWED JOINTS 50mm & BELOW.
- 11. RETENTION OF THE CHILLED WATER LOW LOSS HEADER AND PUMP SETS TO THE BASEMENT PLANT AREA RETAINS THE OPTION TO INSTALL NEW BASEMENT CHILLER PLANT IN THE FUTURE SHOULD COOLING LOAD EXCEED TO ROOF MOUNTED CHILLER COOLING DUTY.

PRELIMINARY

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SOAS UNIVERSITY of LONDON RESEARCH BLOCK CHILED WATER AND VENTILATION FEASIBILITY

SOAS UNIVERSITY of LONDON

KENDALL KINGSCOTT

RESEARCH BLOCK
INDICATIVE CHW SCHEMATIC

Scale		Drawing no.	
	NTS @ A1	5974/M200	
Date J	JANUARY 2020	Revision P2	
Designed	FMc	Cad ref 5974M200-P2	
Drawn	CAM	Checked DTS	
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