

AIR SOURCE HP SCHEDULE

- HP1** MITSUBISHI HEAVY INDUSTRIES QTON WATER HEATING ES430EH 30kW
- HP2** KEYTER KWPC4500, HEATING MODE RATED HEAT OUTPUT 351 kW

CONDENSER SCHEDULE

- OD1.** LG ARNU126TRB4 VRF 4 WAY MINI CEILING CASSETTE GALVANISED STEEL PLATE CASING, BODY 570x214x570mm COOLING CAPACITY: 1.6 kW HEATING CAPACITY: 1.3 kW POWER Q/V/Hz : 1/220-230-240/50-60
- OD2.** LG ARNU18180LTS, 26 HP COOLING LG MULTI V ARUM180LTS, 18 HP COOLING MAX PIPE LENGTH - 100m

AC INDOOR UNIT SCHEDULE

- AC1** LG ARNU105GTRB4 VRF 4 WAY MINI CEILING CASSETTE GALVANISED STEEL PLATE CASING, BODY 570x214x570mm COOLING CAPACITY: 1.6 kW HEATING CAPACITY: 1.3 kW POWER Q/V/Hz : 1/220-230-240/50-60
- AC2** LG ARNU126TRB4 VRF 4 WAY MINI CEILING CASSETTE GALVANISED STEEL PLATE CASING, BODY 570x214x570mm COOLING CAPACITY: 3.6 kW HEATING CAPACITY: 4.0 kW POWER Q/V/Hz : 1/220-230-240/50-60
- AC3** LG ARNU15GTQB4 VRF 4 WAY MINI CEILING CASSETTE GALVANISED STEEL PLATE CASING, BODY 570x256x570mm COOLING CAPACITY: 4.5 kW HEATING CAPACITY: 5.0 kW POWER Q/V/Hz : 1/220-230-240/50-60
- AC4** LG ARNU18GTQB4 VRF 4 WAY MINI CEILING CASSETTE GALVANISED STEEL PLATE CASING, BODY 570x256x570mm COOLING CAPACITY: 5.6 kW HEATING CAPACITY: 6.3 kW POWER Q/V/Hz : 1/220-230-240/50-60

GENERAL BUILDING NOTES

ALL CONTROLS FOR MECHANICAL AND ELECTRICAL SERVICES SYSTEMS WILL BE IN COMPLIANCE WITH TB2F PARAGRAPH 2.49.

ALL INSULATION TO PIPES AND DUCTS WILL COMPLY WITH NON-DOMESTIC BUILDING SERVICES COMPLIANCE GUIDE SECTION 11.

COMMISSIONING OF FIXED BUILDING SERVICES TO BE IN ACCORDANCE WITH CIBSE COMMISSIONING CODE M: COMMISSIONING MANAGEMENT - REFER TO PARAGRAPHS 3.44 - 3.46.

AIR LEAKAGE TESTING FOR DUCTWORK SHOULD BE CARRIED OUT IN ACCORDANCE WITH THE PROCEDURES GIVEN IN HVAC DW/143 - REFER TO PARAGRAPHS 3.47 - 3.49.

A NOTICE IN WRITING WILL BE GIVEN TO BUILDING CONTROL AND THE BUILDING OWNER NOT MORE THAN 5 DAYS AFTER COMPLETION STATING HE FIXED BUILDING SERVICES HAVE BEEN PROPERLY COMMISSIONED AND SIGNED BY A SUITABLY QUALIFIED PERSON - REFER TO PARAGRAPHS 3.50 - 3.52.

A NOTICE IN WRITING WILL BE GIVEN TO BUILDING CONTROL STATING THE REQUIREMENTS OF PARAGRAPH 3.83 HAS BEEN MET - REFER TO PARAGRAPHS 3.83 - 3.86.

A NEW OR UPDATED LOGBOOK SHALL BE PROVIDED TO THE BUILDING OWNER UPON COMPLETION IN THE FORMAT GIVEN IN CIBSE TM 31 OR EQUIVALENT

THE BUILDING OPERATOR WILL BE GIVEN SUFFICIENT INFORMATION INCLUDING DETAILS OF THE MECHANICAL AND ELECTRICAL SERVICES INSTALLATIONS, THEIR METHOD OF OPERATION AND MAINTENANCE TO ENABLE THE BUILDING TO OPERATE IN AN ENERGY EFFICIENT MANNER.

WHERE VENTILATION OR AIR CONDITIONING DUCTWORK PASSES THROUGH A FIRE SEPARATING ELEMENT IT SHALL COMPLY WITH AN APPROPRIATE METHOD FOR MAINTAINING THE FIRE RESISTANCE OF THE WALL, FLOOR OR BARRIER GIVEN IN BS 9999: 2017.

VENTILATION PIPEWORK/DUCTWORK RUNNING VERTICALLY IN A ROOFSpace SHALL BE COMPLETE WITH A CONDENSATION TRAP. DRAINAGE FOR CONDENSATE (WHERE APPLICABLE) SHALL COMPLY WITH PARAGRAPH 2.18 OF TECHNICAL BOOKLET N.

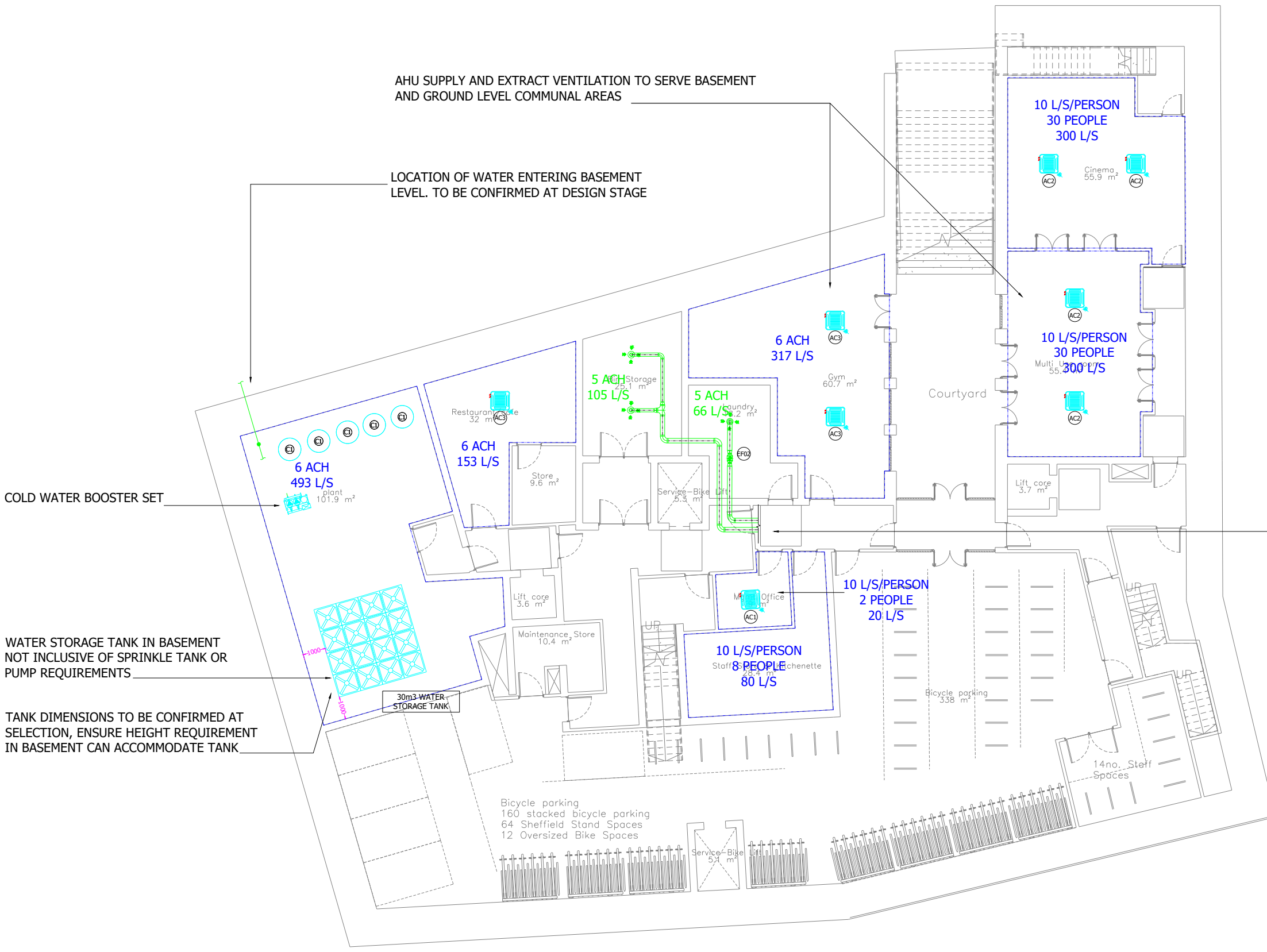
WHERE A PIPE PASSES THROUGH A FIRE SEPARATING ELEMENT AND IS OF A GREATER DIAMETER THAN THOSE OUTLINED IN TABLE 4.8 TECHNICAL BOOKLET E IT SHALL BE PROVIDED WITH A SUITABLE PROPRIETARY SEALING SYSTEM WHICH HAS BEEN SHOWN BY TEST TO MAINTAIN THE FIRE RESISTANCE OF THE FIRE SEPARATING ELEMENT. ALL IN ACCORDANCE WITH BUILDING REGULATIONS TECHNICAL BOOKLET E.

THE INSTALLATION(S) SHALL COMPLY WITH ALL THE RELEVANT STATUTORY REQUIREMENTS AND REGULATIONS WHICH INCLUDING THE FOLLOWING:

- THE HEALTH AND SAFETY AT WORK ACT, ETC.
- REGULATIONS UNDER THE ELECTRICITY ACTS.
- THE CLEAN AIR ACT.
- CONTROL OF POLLUTION ACT.
- ENERGY CONSERVATION ACT.
- REGULATIONS UNDER THE FACTORIES ACT.
- THE BUILDING REGULATIONS.
- THE I.E.T. WIRING REGULATIONS FOR ELECTRICAL INSTALLATIONS.
- IRISH WATER REGULATIONS.
- CONSTRUCTION DESIGN AND MANAGEMENT REGULATIONS (CDM).
- GAS SAFE REGULATIONS.
- ANY SPECIAL REQUIREMENTS OF THE LOCAL ELECTRICITY, WATER UNDERTAKING AND FIRE FIGHTING AUTHORITY.
- DCLG PUBLICATION "NON-DOMESTIC HEATING, COOLING & VENTILATION COMPLIANCE GUIDE".

EQUIPMENT SCHEDULE

- SF01** KITCHEN SUPPLY FAN VENT AXIA ACM150 INLINE MIXED FLOW FAN DUTY 60 L/S PRESSURE: 50Pa
- EF01** KITCHEN EXTRACT FAN VENT AXIA ACM150 INLINE MIXED FLOW FAN DUTY: 60 L/S PRESSURE: 50Pa
- EF02** LAUNDRY EXTRACT FAN VENT AXIA ACM150 INLINE MIXED FLOW FAN DUTY: 66 L/S PRESSURE: 50Pa
- EF03** BIN STORE EXTRACT FAN VECTAIRE RMS150 SINGLE CENTRIFUGAL ROOF MOUNTED FAN DUTY: 108 L/S PRESSURE: 150Pa
- AHU1** WOLF GMBH AIR HANDLING UNIT DUTY 2.963m³/s SUPPLY & EXTRACT @ 450Pa DIMENSIONS: 4374mm(L) x 2542(W) x 2744mm(H)
- MVHR1** VECTAIRE STUDIO UNIT, WITH SUMMER BYPASS AND FROST STAT, MAX 59 L/S CAPACITY
- CWST** COLD WATER STORAGE TANK 30,000 LITRES
- C1** FLAMCO FLEXTERM PS 1500 HOT WATER STORAGE VESSEL, MAX WORKING PRESSURE 3bar, MAX WORKING TEMPERATURE +95 °C, TO COME WITH INSULATION JACKET 100mm



LEGEND

- VENT SUPPLY
- VENT EXTRACT

REV	DESCRIPTION	DRN	CKD	DATE
DYNAMIC DESIGN CONSULTANTS MECHANICAL & ELECTRICAL ENGINEERS				
7A Dromore Street, Banbridge, Co. Down BT32 4BS				
T: +44 28 4062 3377 E: info@dynamicdesign.org				
CLIENT				
BLACKPITTS RESIDENCE UNLIMITED				
PROJECT				
BLACKPITTS STUDENT HOUSING				
PROJECT No.				
4994				
DRAWING No.				
M01				
DRAWING TITLE				
MECHANICAL SERVICES INSTALLATION COMBINED SERVICES BASEMENT, GROUND, FIRST & SECOND LEVEL				
DATE	SCALE	DRAWN	CHECKED	
JUL'25	1:200	JM	DOB	