



NB: WHERE POSSIBLE, ALL NEW WATER SERVICES TO USE EXISTING WALL PENETRATIONS.

NB: SOIL VENT PIPES & WATER SERVICES DROPPERS LOCATIONS SUBJECT TO FINAL ARCHITECTURAL TOILETS DETAILS

NB: ALL HATCHED AREAS ARE NOT PART OF PHASE 2 WORKS. EXISTING CEILINGS TO BE REMOVED LOCALLY TO PERMIT INSTALLATION OF NEW SERVICES. CEILINGS TO BE REINSTATED TO THE SAME STANDARD PRE-WORKS. ANY DAMAGE INCURRED TO BE AT THE SUBCONTRACTORS EXPENSE.

BCWS  
BHWS FLOW  
BHWS RETURN

- DOMESTIC WATER SERVICES NOTES.**
- THIS DRAWING IS ISSUED FOR DESIGN INTENT ONLY AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETAIL THE SETTING OUT AND CO-ORDINATION OF THE SERVICES WITH THE BUILDING FABRIC DETAILS
  - THE WHOLE OF THE DOMESTIC WATER SERVICES INSTALLATION SHALL COMPLY WITH BS.6700, THE WATER REGULATIONS 2000, HSG 70, ACP 18, HTM 64 AND REQUIREMENTS OF THE LOCAL WATER AUTHORITY
  - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE MECHANICAL, ELECTRICAL, STRUCTURAL, ARCHITECTURAL AND ALL OTHER PUBLIC HEALTH DRAWINGS
  - DO NOT SCALE FROM THIS DRAWING
  - THE PIPEWORK IS TO BE FIRE STOPPED WHEN PENETRATING COMPARTMENT WALLS AND FLOORS CORNER - FIBRE GLASS PACK WITH CONCRETE BACKFILL
  - THE INDIVIDUAL SUPPLIES TO EQUIPMENT ARE TO BE FITTED WITH BALL PATTERN ISOLATING VALVES INCORPORATING A PROPRIETARY FLOW CONTROL DEVICE, DESIGN FLOW RATES ARE TO BE AS FOLLOWS:  
WASH HAND BASIN 0.15l/s  
SINKS 0.2l/s  
WC'S 0.1l/s  
SHOWERS 0.2 l/s  
EACH WHB, SINK TAP AND SHOWER HEAD TO BE COMPLETE WITH INTERNAL FLOW LIMITER TO COMPLY WITH BREEM REQUIREMENTS
  - ALL PIPEWORK IS TO BE SUPPORTED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.
  - ALL FINAL CONNECTIONS TO FITTINGS TO BE 15° UNLESS OTHERWISE NOTED
  - ALL LOW POINTS WITHIN THE SYSTEM ARE TO BE PROVIDED WITH DRAIN OFF COCKS.
  - ALL HIGH POINTS WITHIN THE SYSTEM ARE TO PROVIDED WITH MANUAL AIR COCKS.
  - ALL EXPOSED PIPEWORK TO BE CHROMIUM PLATED.
  - FOR VALVING ARRANGEMENT REFER TO SCHEMATICS.
  - REFER TO SCHEDULES FOR PIPEWORK MATERIALS.

LEGEND	
WHB	WASH HAND BASIN
WC	WATER CLOSET (EUROPEAN)
MCWS	MAINS COLD WATER SERVICE
BHWSF	DOMESTIC BOOSTED HOT WATER SERVICE FLOW
BHWSR	DOMESTIC BOOSTED HOT WATER SERVICE RETURN
HMT	HOT WATER MAINTENANCE TAPE
BCWS	DOMESTIC BOOSTED COLD WATER SERVICE
BCWS	DOMESTIC BOOSTED GREY WATER SERVICE
BCWSR	DOMESTIC BOOSTED RAINWATER SERVICE
CAT5WS	FLUID CATEGORY 5 WATER SUPPLY
MDPE	MEDIUM DENSITY POLYETHYLENE
PIR	PRESENT DETECTOR
	MIXING TAP
	THERMOSTATIC SHOWER MIXING VALVE
DCV	DOUBLE CHECK VALVE
PRV	PRESSURE REDUCING VALVE
IV	ISOLATING VALVE
WM	WATER METER WITH SUB-PULSE OUTPUT LINKED TO BMS
DOC	DRAIN OFF COCKS
DRV	DOUBLE REGULATING VALVE
SV	SOLENOID VALVE
TMV	THERMOSTATIC MIXING VALVE
TBV	THERMOSTATIC BLENDING VALVE
NRV	NON-RETURN VALVE
PTRV	PRESSURE AND TEMPERATURE RELIEF VALVE
ERV	EXPANSION RELIEF VALVE
	VALVE WITH HOSE UNION
---	SERVICES RUN WITHIN FLOOR VOID/BELOW SLAB
---	SERVICES RUN AT HL
---	SERVICES RUN AT LL

Rev	Date	Description	Drawn
5	10.07.20	FINAL STAGE 4 ISSUE	CAD
4	12.06.20	FINAL STAGE 4 ISSUE	CAD
3	04.06.20	STAGE 4 ISSUE	CAD
2	08.04.20	STAGE 4 ISSUE	CAD
1	03.04.20	STAGE 4 ISSUE	CAD
0	28.02.20	STAGE 4 DRAFT ISSUE	CAD

Based on architects drawing

XR-04-DR-A-2405

Issue status

**STAGE 3**

Project

UCL IOE, 20 BEDFORD WAY  
PHASE 2

Title

LEVEL 4 CORE B  
WATER SERVICES LAYOUT

Scale

1:50@AO

Designed By

TH

Checked by

AJ

Date

FEB'20

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