

SOILS & WASTE INSTALLATION NOTES

- 1.00 CONTRACTOR TO REFER TO IN2 ENGINEERING MECHANICAL SPECIFICATION FOR FURTHER DETAIL.
- 2.00 CONTRACTOR TO REFER TO IN2 ENGINEERING M4000 SERIES DRAWINGS FOR ASSOCIATED SOILS AND WASTE SERVICES DRAWINGS.
- 3.00 THE CONTRACTOR SHALL ENSURE THAT EVERY ASPECT OF THE SYSTEM IS RODDABLE.
- 4.00 THE CONTRACTOR SHALL ENSURE THAT ALL GULLEYS ARE SYPHON BELL TYPE.
- 5.00 MINIMUM BELOW SLAB PIPEWORK FALLS :
 - WC BRANCHES 1:80
 - RAINWATER BRANCHES 1:80
 - OTHER BRANCHES 1:40
- 6.00 FIRE SLEEVES TO BE INSTALLED ON ALL PIPEWORK PASSING THRU' SLAB OR FIRE RATED WALL.
- 7.00 THE MECHANICAL CONTRACTOR SHALL INCLUDE FOR FINAL CONNECTIONS TO ALL SANITARY FITTINGS.
- 8.00 CLEANING EYES & ACCESS DOORS FOR MAINTENANCE SHALL BE PROVIDED AT EVERY CHANGE IN DIRECTION.
- 9.00 TEE CONNECTION WITH CLEANING DOOR SHALL BE PROVIDED AT EACH W.C. CONNECTION TO THE MAIN SOIL PIPE.
- 10.00 THE MECHANICAL CONTRACTOR SHALL INCLUDE FOR ALL TRAPS AT SANITARY FITTINGS.
- 11.00 FINAL CONNECTIONS TO WASH HAND BASINS SHALL BE Ø32mm BUT CONNECTIONS TO SOIL PIPE SHALL BE Ø50mm.
- 12.00 FINAL CONNECTIONS TO CLEANERS SINKS SHALL BE Ø40mm BUT CONNECTIONS TO SOIL PIPE SHALL BE Ø50mm.
- 13.00 FINAL CONNECTIONS TO WATER CLOSETS SHALL BE Ø100mm.
- 14.00 SWEPT ENTRY FITTING AT CONNECTION BETWEEN Ø32mm WASTE FROM W.H.B. & Ø50mm COMMON WASTE.
- 15.00 EACH W.C. SHALL HAVE INDIVIDUAL Ø22mm OVERFLOW.
- 16.00 EASY SWEEP BENDS SHALL BE USED THROUGHOUT..
- 17.00 FIRE STOPPING SHALL BE PROVIDED ON SLAB PENETRATIONS WHERE REQUIRED.
- 18.00 CONTRACTOR SHALL PROVIDE SUFFICIENT ACCESS TO RODDING EYE.
- 19.00 ALL CONDENSATE PIPEWORK TO BE GRAVITY DRAINED.

HEATING & COOLING SERVICES INSTALLATION NOTES

- 1.00 FOR ASSOCIATED HEATING & COOLING SYSTEMS LAYOUTS REFER TO IN2 ENGINEERING M-1000 SERIES DRAWINGS.
- 2.00 CONTRACTOR TO REFER TO IN2 ENGINEERING MECHANICAL SPECIFICATION FOR FURTHER DETAIL.
- 3.00 ALL VALVES AND FITTINGS TO MATCH 'LINE SIZE'.
- 6.00 ALL EQUIPMENT TO BE INSTALLED WITH APPROPRIATE PIPE TRANSITIONS BEFORE VALVES & FITTINGS
- 5.00 ALL HEATING BRANCHES TO BE TAKEN FROM THE BOTTOM OF THE MAIN TO PREVENT 'AIR-LOCKING'
- 6.00 CONTRACTOR TO ENSURE ALL BRANCHES ARE ADEQUATELY VENTED. WHERE NECESSARY AAV'S TO ALL HIGH POINTS OF PIPING NETWORK.
- 7.00 CONTRACTOR TO ENSURE ALL BRANCHES ARE ADEQUATELY VENTED. WHERE NECESSARY AAV'S TO ALL HIGH POINTS OF PIPING NETWORK.

HEATING & COOLING SYSTEM REFERENCE KEY

	ISOLATING VALVE
	CONSTANT PRESSURE DOUBLE REGULATING VALVE
	FIXED ORIFICE DOUBLE REGULATING VALVE
	2 PORT PRESSURE INDEPENDENT CONTROL VALVE
	DIFFERENTIAL PRESSURE CONTROL VALVE
	ANCHOR POSITION
	PIPE EXPANSION GUIDES
	PIPEWORK RISE / DROP FROM ABOVE / BELOW
	PIPEWORK TEE
	PIPEWORK IN CEILING VOID
	PIPEWORK EXPOSED AT HIGH LEVEL
	PIPEWORK AT LOW LEVEL EXPOSED
	PIPEWORK IN TRENCH
	LTHW F&R PIPEWORK
	CHW F&R PIPEWORK

NOTE:
THIS DRAWING REPRESENTS THE APPROXIMATE POSITIONS OF SERVICES IN GUESTROOM TYPE A. POSITIONS OF SERVICES HAVE BEEN DETERMINED VIA SITE SURVEY, REVIEW OF EXISTING AS-BUILT DRAWINGS AND REVIEW OF AVAILABLE ORIGINAL DESIGN INFORMATION. IT IS LIKELY NOT ALL SERVICES WILL BE EXACTLY AS PER THIS DRAWING. CONTRACTOR SHALL NOTE THIS AND BE RESPONSIBLE FOR IDENTIFYING EXACT POSITIONS FOR ALL EXISTING SERVICES.

VENTILATION SERVICES NOTES

- 1.00 ALL DUCTWORK SIZES NOTED ARE INTERNAL SIZES.
- 2.00 ACCESS GATES SHALL BE PROVIDED IN DUCTS TO ALL FIRE DAMPERS WHERE RELEVANT.
- 3.00 FIRE STOPPING SHALL BE PROVIDED ON SLAB PENETRATIONS WHERE REQUIRED.
- 4.00 CONTRACTOR TO REFER TO IN2 ENGINEERING MECHANICAL SPECIFICATION FOR FURTHER DETAIL.
- 5.00 CONTRACTOR TO REFER TO IN2 ENGINEERING M2000 SERIES DRAWINGS FOR ASSOCIATED VENTILATION DRAWINGS.
- 6.00 ALL PROPOSED DUCTWORK SIZES INDICATED ON THIS DRAWING ARE PURELY INDICATIVE TO AID IN TENDERING. THE CONTRACTOR SHALL ACCEPT FULL DESIGN RESPONSIBILITY.

VENTILATION DUCTWORK REFERENCE KEY

	EXTRACT DUCTWORK
	SUPPLY DUCTWORK
	FRESH AIR DUCTWORK
	FRESH AIR DUCTWORK
	DUCTWORK RISE / FALL - TO / FROM ABOVE
	DUCTWORK RISE / FALL - TO / FROM BELOW

ITEM KEY	DESCRIPTION	ITEM TAG
XX I/s	WALL MOUNTED SUPPLY DISC VALVE	SG.X.X.XX
XX I/s	EXTRACT DISC VALVE	EG.X.X.XX
xxx I/s	VOLUME CONTROL DAMPER	VCD.X.X.XX
	MOTORISED FIRE SMOKE DAMPER	MFSD.X.X.XX
	CROSS TALK ATTENUATOR	ATT.X.X.XX

EXTRACT AIR DISC VALVE

EXTRACT AIR DISC VALVE LOCATED IN HOTEL ROOM BATHROOM.



AS PER SPECIFICATION

FAN COIL UNIT

WALL MOUNTED EXPOSED FAN COIL UNIT LOCATED AT HIGH LEVEL IN HOTEL ROOM LOBBY.

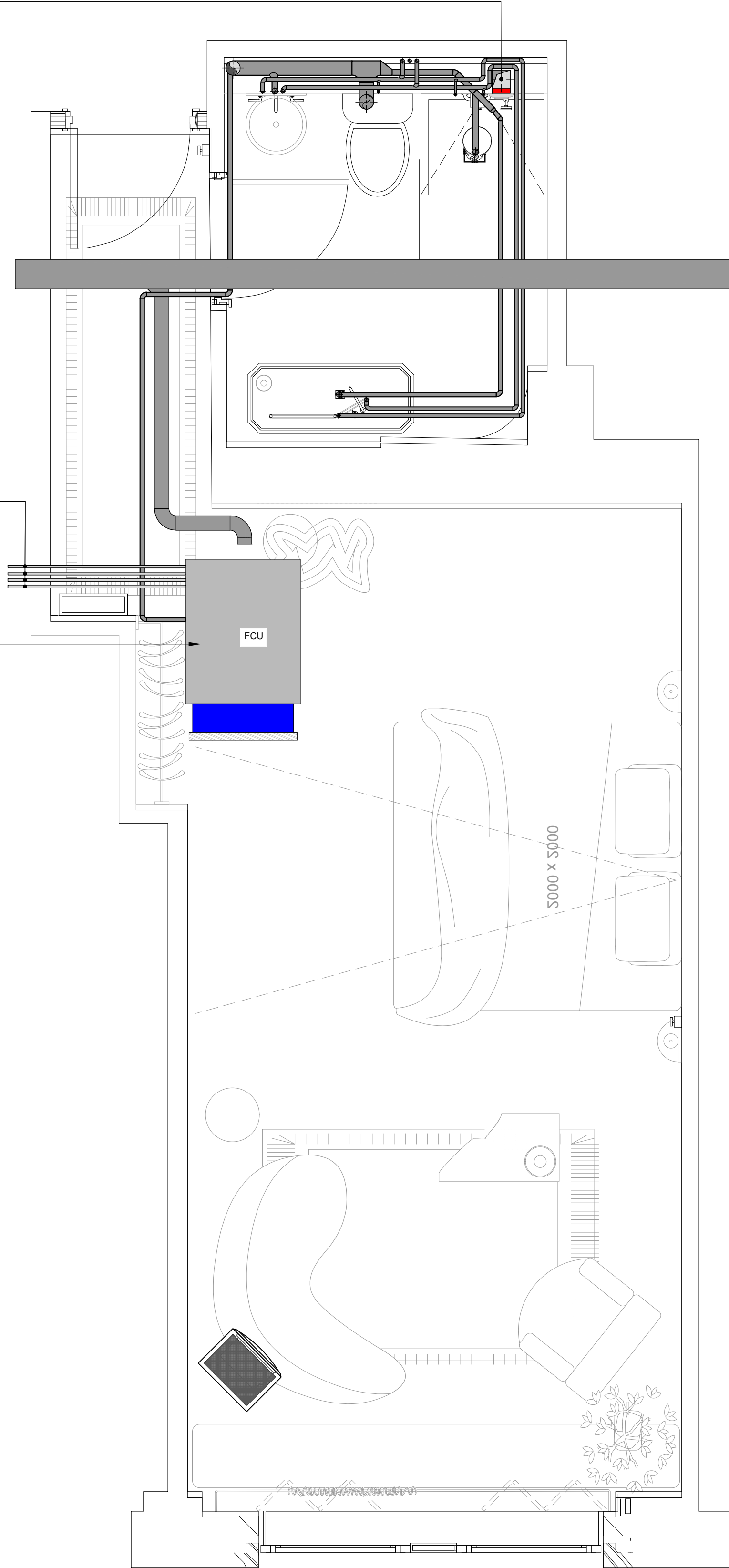


AS PER SPECIFICATION

NEW Ø125mm EXTRACT DUCTWORK AT HIGH LEVEL W/ ASSOCIATED EXTRACT GRILLE SERVING SHOWER

EXISTING Ø15mm LTHW & Ø20mm CHW FLOW & RETURN PIPEWORK AT H.L. PIPEWORK TO BE LOCALLY ADAPTED AT NEW FCU CONNECTION POINT.

ALL NEW FCU, SUPPLY GRILLE AND SECONDARY SUPPLY DUCTWORK AT H.L.



GENERAL NOTES

- 1.10 THESE DRAWINGS ARE RIBA STAGE 2+ DESIGN INTENT DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEVELOPING THESE DRAWINGS TO RIBA STAGE 4 LEVEL OF DETAIL FOR FORMAL SIGN OFF BEFORE INSTALLATION ON SITE.
- 2.10 THE CONTRACTOR SHALL TAKE FULL DESIGN RESPONSIBILITY FOR THE ALL M&E DESIGN ON THE PROJECT.
- 3.10 FINAL ROOM COUNTS TO BE CONFIRMED AT A LATER STAGE. ALLOCATION OF GUESTROOM TYPE A AND B INDICATIVE FOR INFORMATION PURPOSES. THESE SHALL BE CONFIRMED POST CONTRACT AWARD.

WATER SERVICES INSTALLATION NOTES

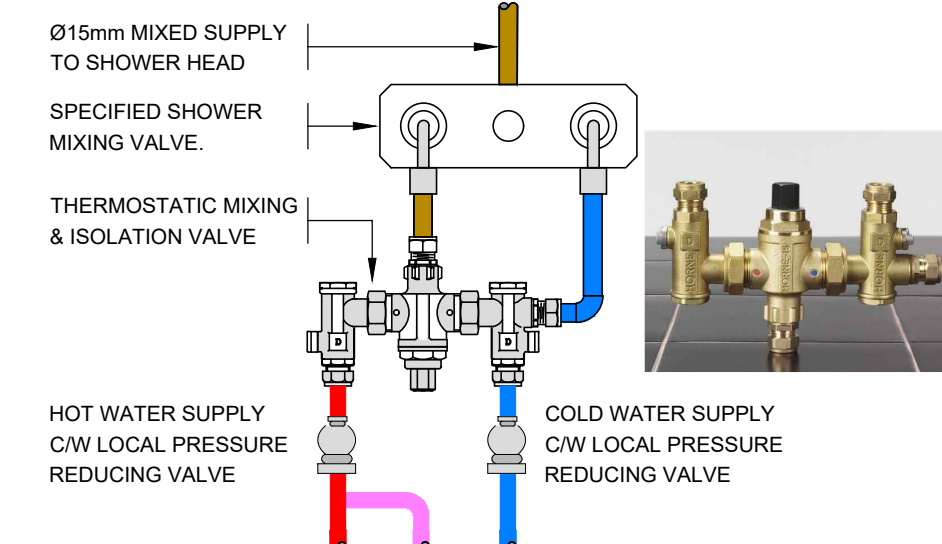
- 1.00 ALL PIPEWORK SIZES NOTED REFER TO THE NOMINAL PIPE DIAMETER.
- 2.00 CONTRACTOR TO REFER TO IN2 ENGINEERING MECHANICAL SPECIFICATION FOR FURTHER DETAIL.
- 3.00 CONTRACTOR TO REFER TO IN2 ENGINEERING M3000 SERIES DRAWINGS FOR ASSOCIATED WATER SERVICES DRAWINGS.
- 4.00 THERMOSTATIC SAFETY VALVES TO BE INCLUDED ON ALL HOT WATER OUTLETS
- 5.00 ALL VALVES AND FITTINGS TO MATCH 'LINE-SIZE'.
- 6.00 ALL EQUIPMENT TO BE INSTALLED WITH APPROPRIATE TRANSITION SECTIONS BEFORE VALVES AND FITTINGS
- 7.00 ALL "MIXED" SUPPLIES SHALL HAVE A MAX PIPE LENGTH OF 3m.

WATER SERVICES REFERENCE KEY

	ISOLATING VALVE
	ISOLATING VALVE (NORMALLY CLOSED)
	THERMOSTATIC BALANCING VALVE
	PRESSURE REDUCING VALVE
	COLD WATER SUPPLY
	HOT WATER SUPPLY FLOW
	HOT WATER SUPPLY RETURN

WATER SERVICES SHOWER VALVE ARRANGEMENT

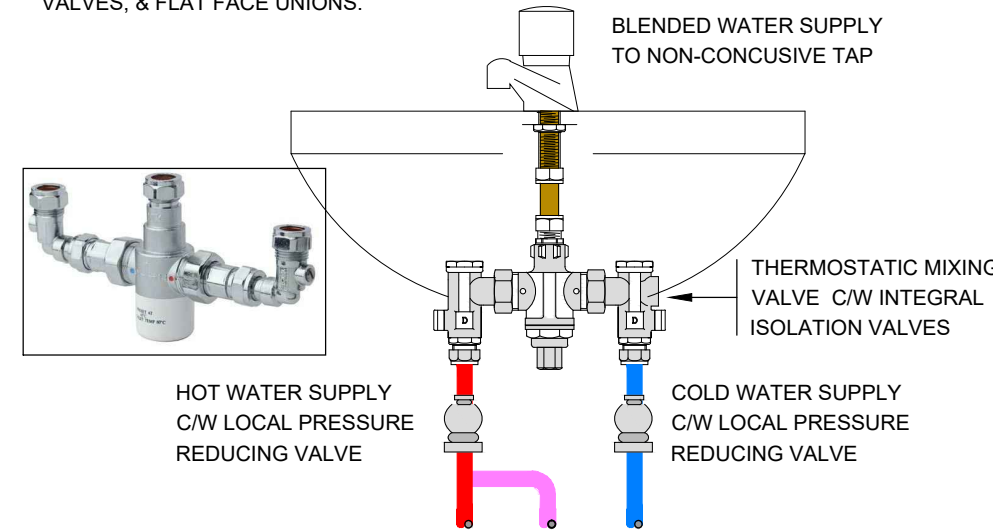
SHOWER VALVES TO BE CONTROLLED AS PER SPECIFIED SHOWER MIXING VALVE. THERMOSTATIC MIXING VALVE TO BE PROVIDED c/w INTEGRAL ISOLATING BALL VALVES, FULL BORE FINE MESH STRAINERS, CHECK VALVES, FLAT FACE UNIONS & A COLD WATER SPUR CONNECTION.



FINAL SANITARYWARE SPEC TBC

WHB THERMOSTATIC MIXING VALVE ARRANGEMENT

ALL WASH HAND BASINS TO BE PROVIDED WITH THERMOSTATIC MIXING VALVE C/W INTEGRAL ISOLATING BALL VALVES, FULL BORE FINE MESH STRAINERS, CHECK VALVES, & FLAT FACE UNIONS.



FINAL SANITARYWARE SPEC TBC

PROJECT

**STOREYS HOTEL
MANCHESTER**

CLIENT

PRINCESS STREET HOTEL

PROJECT REF:

L20006

DRAWING TITLE

**MECHANICAL SERVICES LAYOUT
TYPICAL GUESTROOM TYPE B
COMBINED MECHANICAL PROPOSED SERVICES LAYOUT**

SCALE

1:25

SIZE

A1

DRAWING No.

L20006-IN2-ZZ-ZZ-DR-M-0002

STATUS

D2

RIBA STAGE

2+

REVISION

T01