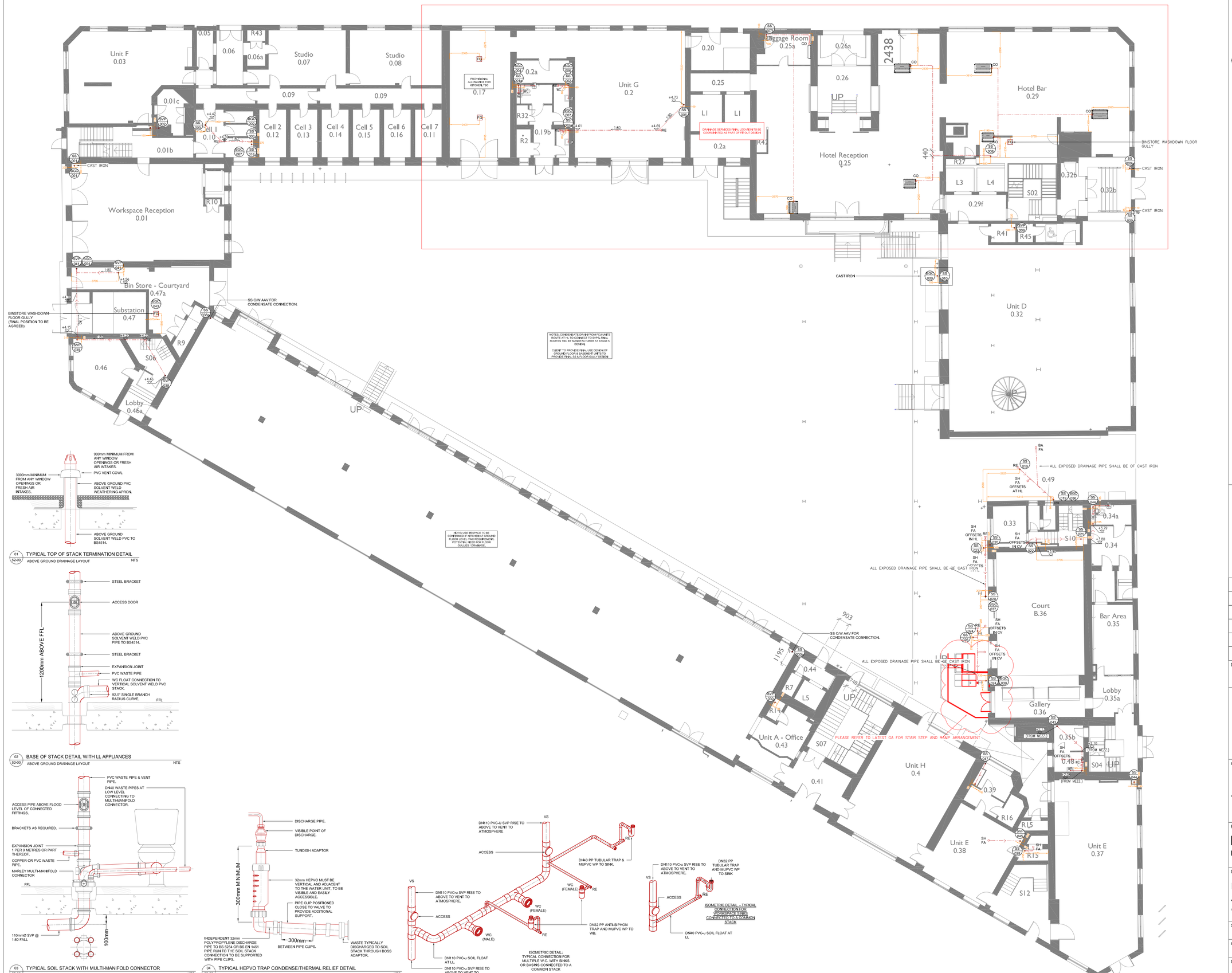

01 TYPICAL TOP OF STACK TERMINATION DETAIL
52-00 ABOVE GROUND DRAINAGE LAYOUT NTS

02 BASE OF STACK DETAIL WITH LL APPLIANCES
52-00 ABOVE GROUND DRAINAGE LAYOUT NTS

03 TYPICAL SOIL STACK WITH MULTI-MANIFOLD CONNECTOR
52-00 ABOVE GROUND DRAINAGE LAYOUT NTS

04 TYPICAL HEPVO TRAP CONDENSE/THERMAL RELIEF DETAIL
52-00 ABOVE GROUND DRAINAGE LAYOUT NTS

NOTES

1. DO NOT SCALE FROM THIS DRAWING.
2. ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO PREPARATION OF SHOP DRAWINGS, FABRICATION OF PARTS, ORDERING MATERIALS OR COMMENCING WORKS.
3. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER CONSULTANTS DRAWINGS, SPECIFICATIONS AND SCHEDULES.
4. ANY PENETRATION THROUGH FLOOR, SEEK STRUCTURAL ENGINEERS APPROVAL BEFORE COMMENCEMENT.
5. ALL PLANT AND EQUIPMENT SHALL BE INSTALLED FULLY IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

ABOVE GROUND DRAINAGE INSTALLATION

1. ALL SVPS FITTED WITH ACCESS DOOR 1200mm ABOVE FFL.
2. ALL SANITARY APPLIANCES MUST BE FITTED WITH RE-SEALING BOTTLE OR TUBULAR TRAPS AS MANUFACTURER MCALPINE OR EQUIVALENT AND APPROVED. WHB-BOTTLE TRAP, SINK-TUBULAR TRAP.
3. ALL 110 UPVC STUB STACKS TERMINATE WITH AAV ABOVE FLOOD LEVEL IN VENTILATED PLUMBING DUCT.
4. THE ARCHITECT TO CONFIRM ALL STACK RISER POSITIONS & PROVIDE BOXING DETAILS NECESSARY.
5. ALL PLASTICS 50mmØ & ABOVE FITTED WITH FIRE COLLAR AT ALL FIRE COMPARTMENT WALLS & FLOORS.
6. ALL VISIBLE PIPEWORK AND WASTE FITTINGS & PIPEWORK TO BE CHROME PLATED OR AS ARCHITECTS INSTRUCTIONS.
7. ALL SVPs TO PENETRATE SLAB.
8. ALL SVPs TO BE 110mmØ NOMINAL SIZE.
9. ALL ABOVE GROUND DRAINAGE SHALL COMPLY WITH THE REQUIREMENTS OF BS EN 12056 & BUILDING REGULATIONS APPROVED DOCUMENT PART H.
10. THE CONTRACTOR SHALL ENSURE THAT ALL RODDING EYES ARE FULLY ACCESSIBLE FOR MAINTENANCE PURPOSES.
11. THE CONTRACTOR SHALL ALLOW TO MAKE ALL FINAL CONNECTIONS TO SANITARY WARE & ITEMS OF EQUIPMENT.
12. RODDING ACCESS IS SHOWN INDICATIVE THROUGHOUT, THE CONTRACTOR IS TO INCLUDE FOR RODDING/ACCESS PANELS WHERE PRACTICAL & NECESSARY.
13. CONDENSATE DISCHARGE PIPE SHOULD BE CONNECTED TO AN INTERNAL "GRAVITY DISCHARGE POINT" SUCH AS AN INTERNAL SOIL STACK (PREFERRED METHOD), EXTERNAL PIPES FROM SINK WASTES OR WASHING MACHINE OUTLETS SHOULD BE A MINIMUM OF 30MM INTERNAL DIAMETER, INSULATED WITH WATERPROOF UV RESISTANT MATERIAL, TERMINATED BELOW THE GRID BUT ABOVE THE WATER LINE AND A SUITABLE DRAIN/LEAF GUARD FITTED. IF AN INTERNAL POINT ISN'T POSSIBLE, THE INSTALLER SHOULD USE A CONDENSATE PUMP CONNECTED TO A SUITABLE INTERNAL CONNECTION POINT SUCH AS AN INTERNAL SOIL STACK (PREFERRED METHOD), INTERNAL KITCHEN OR BATHROOM WASTE PIPE SUCH AS A SINK, BASIN, BATH OR SHOWER WASTE.
14. CONDENSATE DISCHARGE PIPES THAT ARE ROUTED IN AN UNHEATED SPACE SUCH AS A LOFT OR GARAGE SHOULD BE INSULATED TO PREVENT FREEZING.

ABOVE GROUND DRAINAGE LEGEND

- DRAINAGE PIPEWORK
- PIPEWORK IN CEILING VOID
- PIPEWORK AT LOW LEVEL
- PIPEWORK IN FLOOR VOID
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- SH — DN40 TRAPPED WASTE FROM SHOWER
- WB — DN32 TRAPPED WASTE FROM WASHBASIN
- WC — DN110 PAN CONNECTOR
- RE — RODDING EYE
- SOIL VENT PIPE/STUB STACK DROP
- FG — FLOOR GRILLE
- PUMP — SANIFLO DRAINAGE PUMP (MODEL TBC) LOCATED WITHIN BUILD UP.
- ABR 01 — ITEM ABBREVIATION / REFERENCE NUMBER

ABBREVIATIONS

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PIPE LEVEL TAG: FFL TO CENTER OF PIPE (m) — +X.XX

TYPICAL ABOVE GROUND DRAINAGE CONNECTION SIZES

DIAMETER (mm)	APPLIANCE	MAX LENGTH OF PIPE (m)
DN32	WASHBASIN	1.7
DN40	WASHBASIN	3
DN40	BATH/SHOWER	3
DN50	BATH/SHOWER	4
DN40	KITCHEN SINK	3
DN50	KITCHEN SINK	4
DN40	DISHWASHER/ WASHING MACHINE	3
DN110	WC	6

Rev.	Date	Description	By	Chk'd	App'd
P05	03.03.25	GA's UPDATED	CMB	CW	LM
P04	29.01.25	REVISED PER COMMENTS	CC	CW	LM
P03	14.11.24	REVISED PER COMMENTS	CC	CW	LM
P02	06.08.24	REVISED GA & INCORPORATE COMMENTS	JH	CC	LM
P01	18.04.24	REISSUED AT (P) STAGE 5 PREVIOUS DRAWINGS SUPERCEDED	KD	CC	LM

Drawing Suitability — Status

CMB ENGINEERING

Client

ALLIED LONDON

Project Title

LONDON ROAD FIRE STATION
FIRE STATION, LONDON ROAD, MANCHESTER, M1 2PH

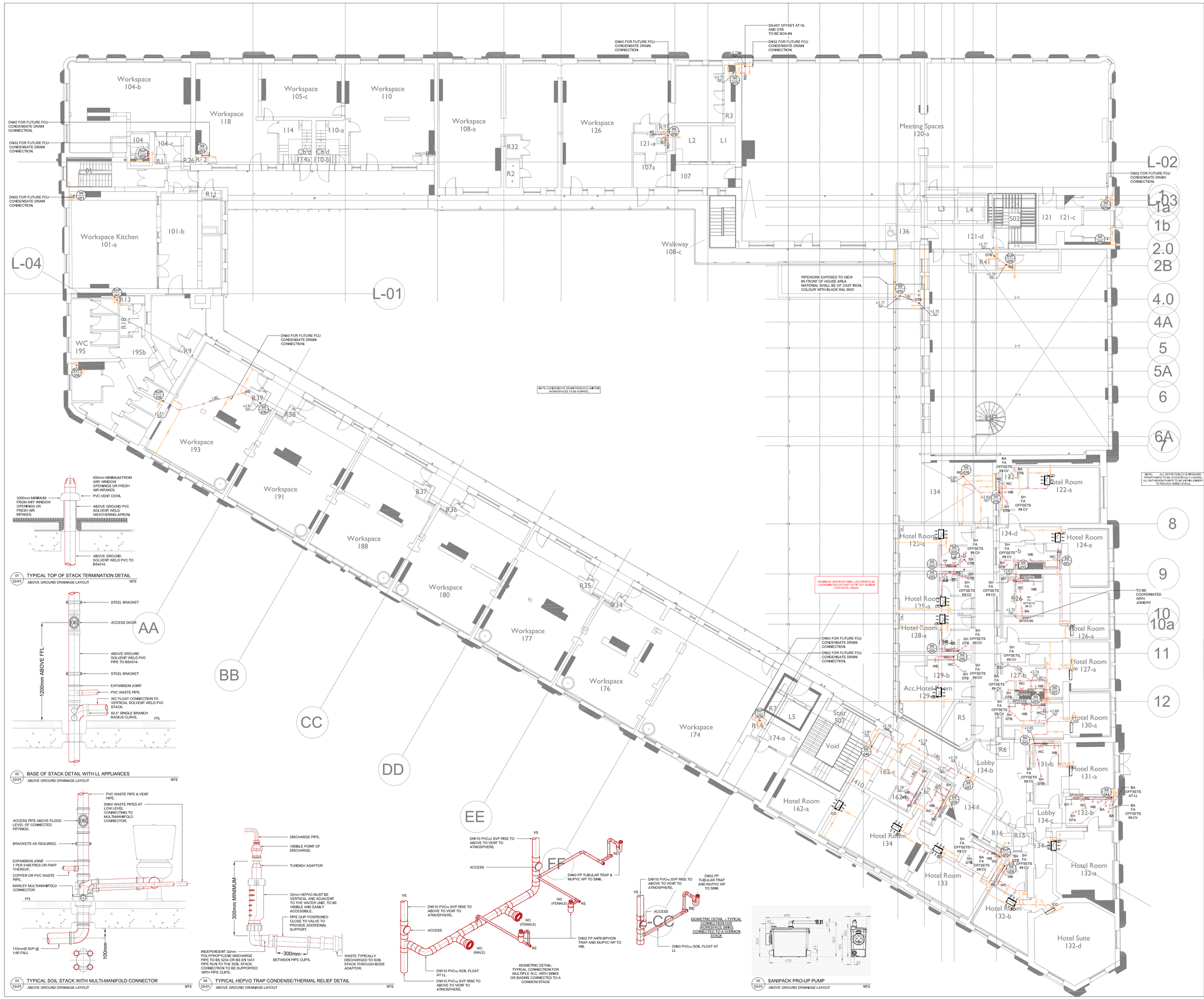
Drawing Title

PUBLIC HEALTH SERVICES
ABOVE GROUND DRAINAGE LAYOUT
GROUND FLOOR

Scale	Designed	Drawn	Checked	Authorised
1:100	CC	KD	CC	LM
Original Size	Date	Date	Date	Date
A0	18.04.25	20.01.25	20.01.25	18.04.25

Drawing Number: LRFS-CMB-PH-00-XX-DR-5201

Revision: P05



01 52-01 TYPICAL TOP OF STACK TERMINATION DETAIL
ABOVE GROUND DRAINAGE LAYOUT NTS

02 52-01 BASE OF STACK DETAIL WITH LL APPLIANCES
ABOVE GROUND DRAINAGE LAYOUT NTS

03 52-01 TYPICAL SOIL STACK WITH MULTI-MANIFOLD CONNECTOR
ABOVE GROUND DRAINAGE LAYOUT NTS

04 52-01 TYPICAL HEPVO TRAP CONDENSE/THERMAL RELIEF DETAIL
ABOVE GROUND DRAINAGE LAYOUT NTS

05 52-01 SANIPACK PRO-UP PUMP
ABOVE GROUND DRAINAGE LAYOUT NTS

NOTES

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- WC — DN110 PAN CONNECTOR
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- SOIL VENT PIPE/STUB STACK DROP
- FG — FLOOR GRILLE
- PUMP — SANIFLO DRAINAGE PUMP (MODEL TBC) LOCATED WITHIN BUILD UP
- ABR 01 — ITEM ABBREVIATION / REFERENCE NUMBER

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PIPE LEVEL TAG: FFL TO CENTER OF PIPE (m) — +X.XX

TYPICAL ABOVE GROUND DRAINAGE CONNECTION SIZES

DIAMETER (mm)	APPLIANCE	MAX LENGTH OF PIPE (m)
DN32	WASHBASIN	1.7
DN40	WASHBASIN	3
DN40	BATH/SHOWER	3
DN50	BATH/SHOWER	4
DN40	KITCHEN SINK	3
DN50	KITCHEN SINK	4
DN40	DISHWASHER/ WASHING MACHINE	3
DN110	WC	6

Rev.	Date	Description	By	Chk'd	App'd
C02	03.03.25	GA's UPDATED	CMB	CW	LM
C01	20.01.25	FOR CONSTRUCTION	CC	CW	LM

Drawing Suitability: STAGE 5 - FOR CONSTRUCTION

Status

CMB ENGINEERING

Client: ALLIED LONDON

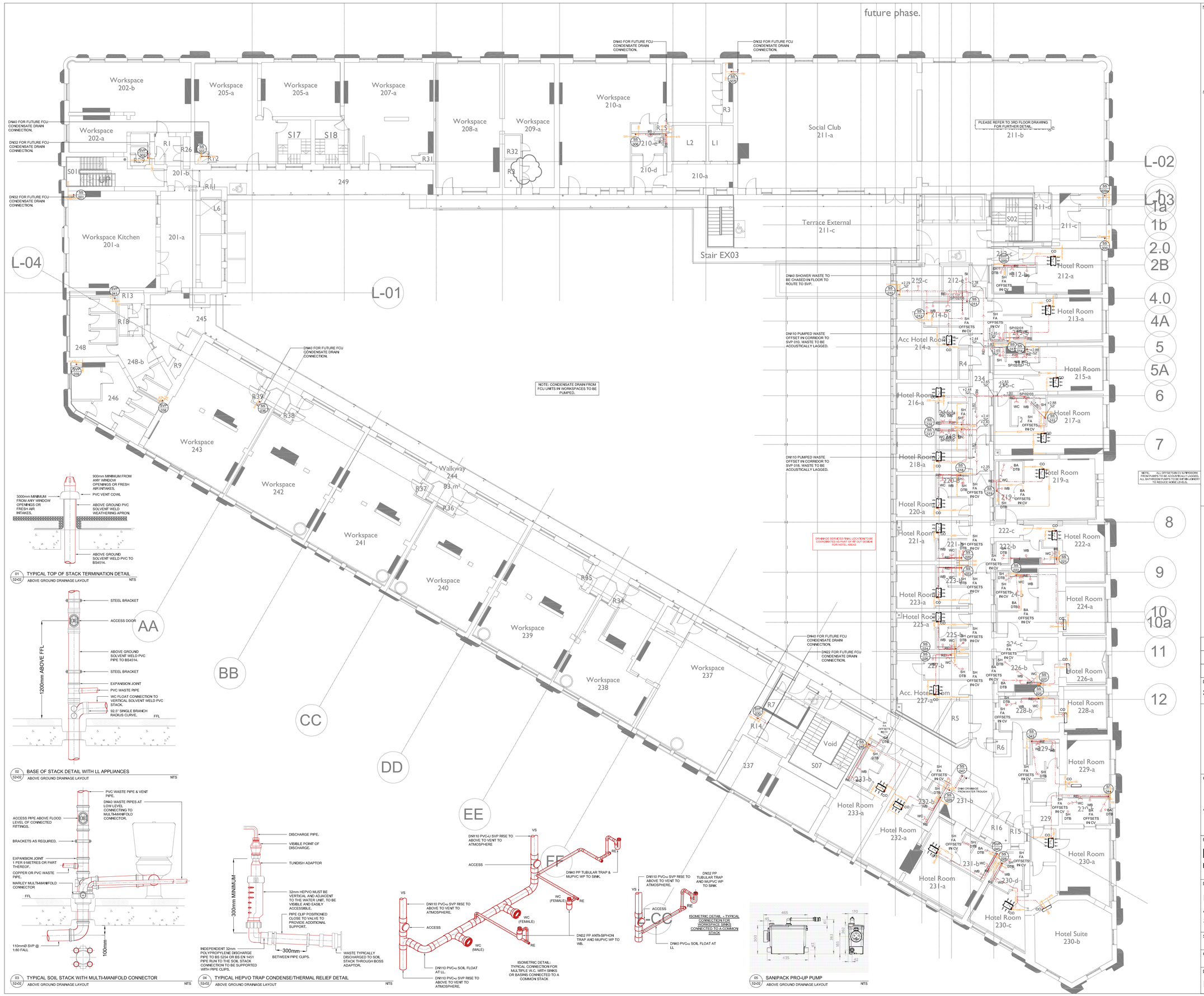
Project Title: LONDON ROAD FIRE STATION
FIRE STATION, LONDON ROAD, MANCHESTER, M1 2PH

Drawing Title: PUBLIC HEALTH SERVICES
ABOVE GROUND DRAINAGE LAYOUT
FIRST FLOOR

Scale	Designed	Drawn	Checked	Authorised
1:100	CC	KD	CW	LM
Original Size	Date	Date	Date	Date
A0	20.01.25	20.01.25	20.01.25	20.01.25

Drawing Number: LRFS-CMB-PH-01-XX-DR-5201

Revision: C02



01 / 52-02 TYPICAL TOP OF STACK TERMINATION DETAIL
ABOVE GROUND DRAINAGE LAYOUT NTS

02 / 52-02 BASE OF STACK DETAIL WITH LL APPLIANCES
ABOVE GROUND DRAINAGE LAYOUT NTS

03 / 52-02 TYPICAL SOIL STACK WITH MULTI-MANIFOLD CONNECTOR
ABOVE GROUND DRAINAGE LAYOUT NTS

04 / 52-02 TYPICAL HEPVO TRAP CONDENSE/THERMAL RELIEF DETAIL
ABOVE GROUND DRAINAGE LAYOUT NTS

05 / 52-02 SANIPACK PRO-UP PUMP
ABOVE GROUND DRAINAGE LAYOUT NTS

NOTES

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ABOVE GROUND DRAINAGE INSTALLATION

1. ALL SVPS FITTED WITH ACCESS DOOR 1200mm ABOVE FFL.
2. ALL SANITARY APPLIANCES MUST BE FITTED WITH RE-SEALING BOTTLE OR TUBULAR TRAPS AS MANUFACTURER MCALPINE OR EQUIVALENT AND APPROVED. WHB-BOTTLE TRAP, SINK-TUBULAR TRAP.
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ABOVE GROUND DRAINAGE LEGEND

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- BA — DN40 TRAPPED WASTE FROM BATH
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- FG — FLOOR GRILLE
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- ABR 01 — ITEM ABBREVIATION / REFERENCE NUMBER

ABBREVIATIONS

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WC	- WATER CLOSET

PIPE LEVEL TAG: FFL TO CENTER OF PIPE (m) — +X.XX / DZ

TYPICAL ABOVE GROUND DRAINAGE CONNECTION SIZES

DIAMETER (mm)	APPLIANCE	MAX LENGTH OF PIPE (m)
DN32	WASHBASIN	1.7
DN40	WASHBASIN	3
DN40	BATH/SHOWER	3
DN50	BATH/SHOWER	4
DN40	KITCHEN SINK	3
DN50	KITCHEN SINK	4
DN40	DISHWASHER/ WASHING MACHINE	3
DN110	WC	6

Rev.	Date	Description	By	Chk'd	App'd
C02	03.03.25	GA's UPDATED	CMB	CW	LM
C01	20.01.25	FOR CONSTRUCTION	CC	CW	LM

Drawing Suitability: STAGE 5 - FOR CONSTRUCTION

Status

CMB ENGINEERING

Client: ALLIED LONDON

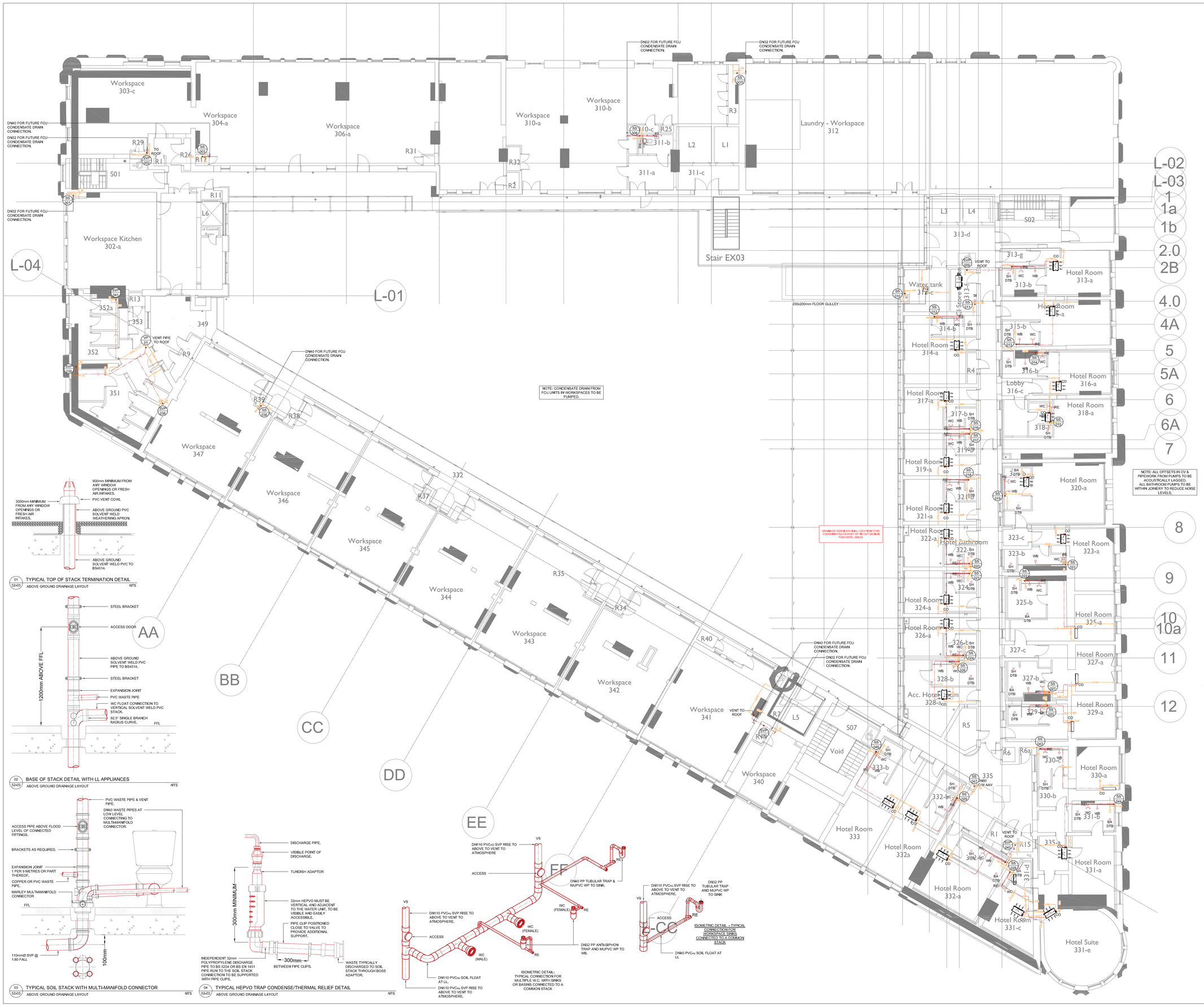
Project Title: LONDON ROAD FIRE STATION
FIRE STATION, LONDON ROAD, MANCHESTER, M1 2PH

Drawing Title: PUBLIC HEALTH SERVICES
ABOVE GROUND DRAINAGE LAYOUT
SECOND FLOOR

Scale	Designed	Drawn	Checked	Authorised
1:100	CC	KD	CW	LM
Original Size	Date	Date	Date	Date
A0	20.01.25	20.01.25	20.01.25	20.01.25

Drawing Number: LRFS-CMB-PH-02-XX-DR-5201

Revision: C02



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ABOVE GROUND DRAINAGE INSTALLATION

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WB	- WASH BASIN
WC	- WATER CLOSET

PIPE LEVEL TAG: FFL TO CENTER OF PIPE (m) — +X.XX / -XX

TYPICAL ABOVE GROUND DRAINAGE CONNECTION SIZES

DIAMETER (mm)	APPLIANCE	MAX LENGTH OF PIPE (m)
DN32	WASHBASIN	1.7
DN40	WASHBASIN	3
DN40	BATH/SHOWER	3
DN50	BATH/SHOWER	4
DN40	KITCHEN SINK	3
DN50	KITCHEN SINK	4
DN40	DISHWASHER/ WASHING MACHINE	3
DN110	WC	6

Rev.	Date	Description	By	Chk'd	App'd
C02	03.03.25	GA's UPDATED	CMB	CW	LM
C01	20.01.25	FOR CONSTRUCTION	CC	CW	LM

Drawing Suitability: STAGE 5 - FOR CONSTRUCTION

Status

CMB ENGINEERING

Client: ALLIED LONDON

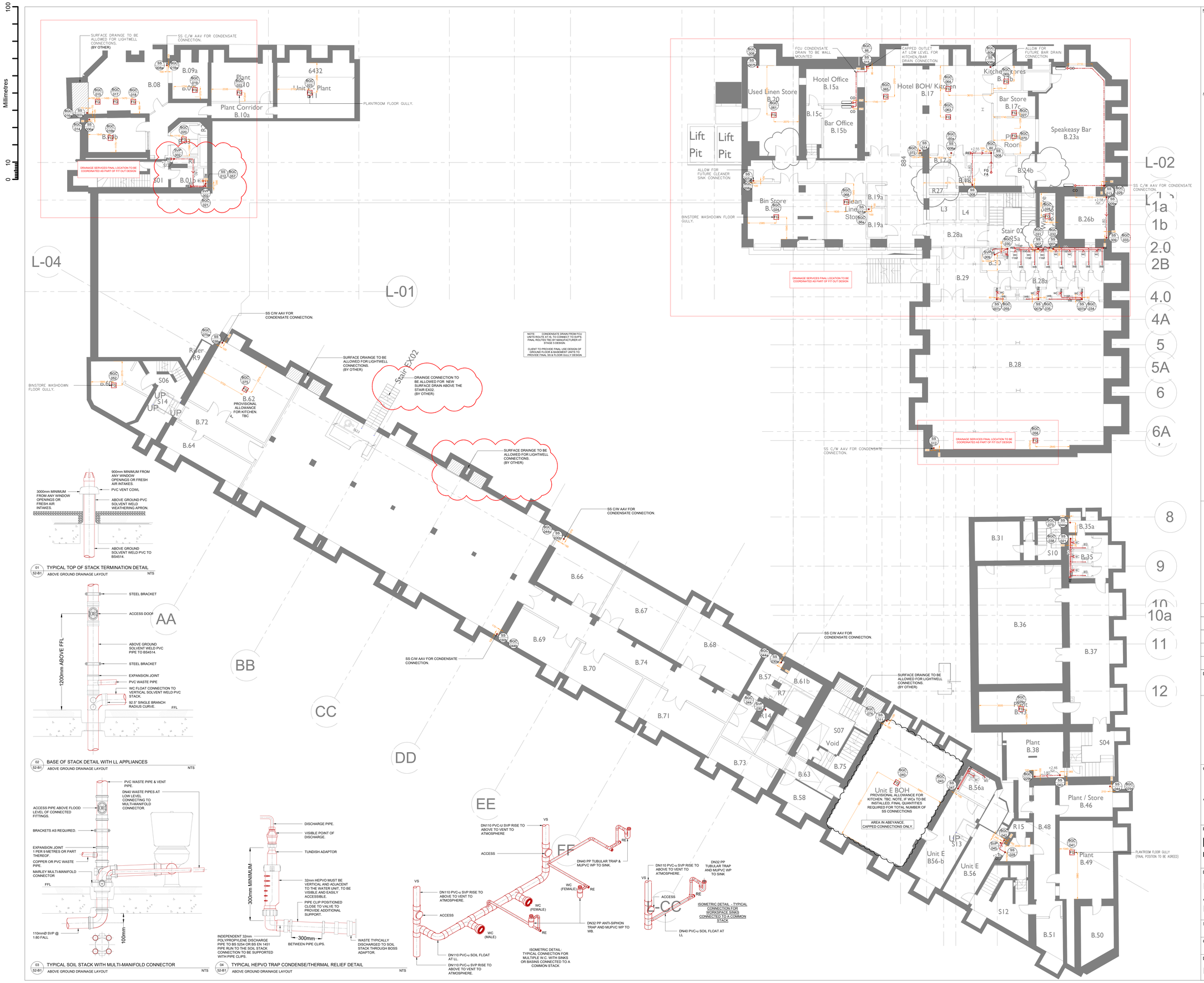
Project Title: LONDON ROAD FIRE STATION
FIRE STATION, LONDON ROAD, MANCHESTER, M1 2PH

Drawing Title: PUBLIC HEALTH SERVICES
ABOVE GROUND DRAINAGE LAYOUT
THIRD FLOOR

Scale	Designed	Drawn	Checked	Authorised
1:100	CC	KD	CW	LM
Original Size	Date	Date	Date	Date
A0	20.01.25	20.01.25	20.01.25	20.01.25

Drawing Number: LRFS-CMB-PH-03-XX-DR-5201

Revision: C02



NOTES

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4. ANY PENETRATION THROUGH FLOOR, SEEK STRUCTURAL ENGINEERS APPROVAL BEFORE COMMENCEMENT.
5. ALL PLANT AND EQUIPMENT SHALL BE INSTALLED FULLY IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

ABOVE GROUND DRAINAGE INSTALLATION

1. ALL SVPS FITTED WITH ACCESS DOOR 1200mm ABOVE FFL.
2. ALL SANITARY APPLIANCES MUST BE FITTED WITH RE-SEALING BOTTLE OR TUBULAR TRAPS AS MANUFACTURER MCALPINE OR EQUIVALENT AND APPROVED. WHB-BOTTLE TRAP, SINK-TUBULAR TRAP.
3. ALL 110 UPVC STUB STACKS TERMINATE WITH AAV ABOVE FLOOD LEVEL IN VENTILATED PLUMBING DUCT.
4. THE ARCHITECT TO CONFIRM ALL STACK RISER POSITIONS & PROVIDE BOXING DETAILS NECESSARY.
5. ALL PLASTICS 50mmØ & ABOVE FITTED WITH FIRE COLLAR AT ALL FIRE COMPARTMENT WALLS & FLOORS.
6. ALL VISIBLE PIPEWORK AND WASTE FITTINGS & PIPEWORK TO BE CHROME PLATED OR AS ARCHITECTS INSTRUCTIONS.
7. ALL SVPs TO PENETRATE SLAB.
8. ALL SVPs TO BE 110mmØ NOMINAL SIZE.
9. ALL ABOVE GROUND DRAINAGE SHALL COMPLY WITH THE REQUIREMENTS OF BS EN 12056 & BUILDING REGULATIONS APPROVED DOCUMENT PART H.
10. THE CONTRACTOR SHALL ENSURE THAT ALL RODDING EYES ARE FULLY ACCESSIBLE FOR MAINTENANCE PURPOSES.
11. THE CONTRACTOR SHALL ALLOW TO MAKE ALL FINAL CONNECTIONS TO SANITARY WARE & ITEMS OF EQUIPMENT.
12. RODDING ACCESS IS SHOWN INDICATIVE THROUGHOUT. THE CONTRACTOR IS TO INCLUDE FOR RODDING/ACCESS PANELS WHERE PRACTICAL & NECESSARY.
13. CONDENSATE DISCHARGE PIPE SHOULD BE CONNECTED TO AN INTERNAL "GRAVITY DISCHARGE POINT" SUCH AS AN INTERNAL SOIL STACK (PREFERRED METHOD). EXTERNAL PIPES FROM SINK WASTES OR WASHING MACHINE OUTLETS SHOULD BE A MINIMUM OF 30MM INTERNAL DIAMETER, INSULATED WITH WATERPROOF UV RESISTANT MATERIAL, TERMINATED BELOW THE GRID BUT ABOVE THE WATER LINE AND A SUITABLE DRAIN/LEAF GUARD FITTED. IF AN INTERNAL POINT ISN'T POSSIBLE, THE INSTALLER SHOULD USE A CONDENSATE PUMP CONNECTED TO A SUITABLE INTERNAL CONNECTION POINT SUCH AS AN INTERNAL SOIL STACK (PREFERRED METHOD). INTERNAL KITCHEN OR BATHROOM WASTE PIPE SUCH AS A SINK, BASIN, BATH OR SHOWER WASTE.
14. CONDENSATE DISCHARGE PIPES THAT ARE ROUTED IN AN UNHEATED SPACE SUCH AS A LOFT OR GARAGE SHOULD BE INSULATED TO PREVENT FREEZING.

ABOVE GROUND DRAINAGE LEGEND

- DRAINAGE PIPEWORK
- PIPEWORK IN CEILING VOID
- PIPEWORK AT LOW LEVEL
- PIPEWORK IN FLOOR VOID
- BA — DN40 TRAPPED WASTE FROM BATH
- CO — DN22 BOILER/CYLINDER CONDENSATE PIPE
- SI — DN40 TRAPPED WASTE FROM SINK C/W 1½" TRAP FOR APPLIANCE CONNECT TO DN50 FLOAT
- SH — DN40 TRAPPED WASTE FROM SHOWER
- WB — DN32 TRAPPED WASTE FROM WASHBASIN
- WC — DN110 FAN CONNECTOR
- RE — RODDING EYE
- SOIL VENT PIPE/STUB STACK DROP
- FG — FLOOR GRILLE
- PUMP — SANIFLO DRAINAGE PUMP (MODEL TBC) LOCATED WITHIN BUILD UP
- ABB 01 — ITEM ABBREVIATION / REFERENCE NUMBER

ABBREVIATIONS

LL	- LOW LEVEL
HL	- HIGH LEVEL
FV	- FLOOR VOID
CV	- CEILING VOID
FB	- FROM BELOW
FA	- FROM ABOVE
DTB	- DROP TO BELOW
RTA	- RISE TO ABOVE
A	- ACCESS POINT
AAV	- AIR ADMITTANCE VALVE
BA	- BATH
BGC	- BELOW GROUND CONNECTION
CO	- CONDENSATE PIPE
DF	- DRINKING FOUNTAIN
FCU	- FAN COIL UNIT
FG	- FLOOR GRILLE
HV	- HEP-VO VALVE
RE	- RODDING EYE
SH	- SHOWER
SI	- SINK
SS	- STUB STACK
SVP	- SOIL VENT PIPE
VC	- VENT COWL
WB	- WASH BASIN
WC	- WATER CLOSET

PIPE LEVEL TAG: FFL TO CENTER OF PIPE (m) — +X.XX

TYPICAL ABOVE GROUND DRAINAGE CONNECTION SIZES

DIAMETER (mm)	APPLIANCE	MAX LENGTH OF PIPE (m)
DN32	WASHBASIN	1.7
DN40	WASHBASIN	3
DN40	BATH/SHOWER	3
DN50	BATH/SHOWER	4
DN40	KITCHEN SINK	3
DN50	KITCHEN SINK	4
DN40	DISHWASHER/ WASHING MACHINE	3
DN110	WC	6

Rev.	Date	Description	By	Chk'd	App'd
P04	03.03.25	GA's UPDATED	CMB	CW	LM
P03	14.11.24	REVISED PER COMMENTS	CC	CW	LM
P02	06.08.24	REVISED GA & INCORPORATE COMMENTS	JH	CC	LM
P01	19.04.24	REISSUED AT (P) STAGE 5 PREVIOUS DRAWINGS SUPERCEDED	KD	CC	LM

Drawing Suitability — Status

Client

ALLIED LONDON

Project Title

LONDON ROAD FIRE STATION
FIRE STATION, LONDON ROAD, MANCHESTER, M1 2PH

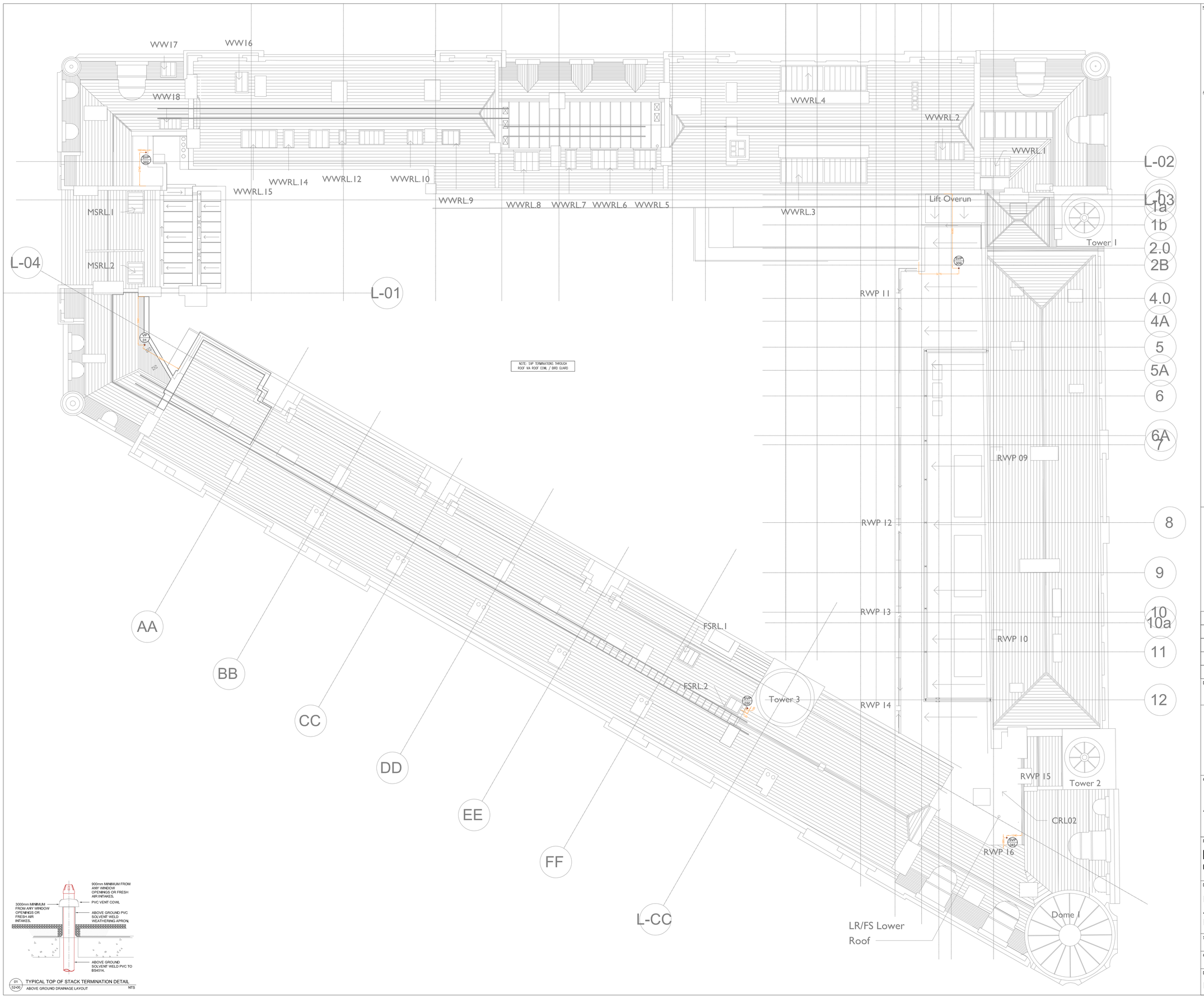
Drawing Title

PUBLIC HEALTH SERVICES
ABOVE GROUND DRAINAGE LAYOUT
BASEMENT LEVEL

Scale	Designed	Drawn	Checked	Authorised
1:100	CC	KD	CC	LM
Original Size: -	Date: 19.04.24	Date: 19.04.24	Date: 19.04.24	Date: 19.04.24

Drawing Number: LRFS-CMB-PH-B1-XX-DR-5201

Revision: P04



NOTES

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5. ALL PLANT AND EQUIPMENT SHALL BE INSTALLED FULLY IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

ABOVE GROUND DRAINAGE INSTALLATION

1. ALL SVPS FITTED WITH ACCESS DOOR 1200mm ABOVE FFL.
2. ALL SANITARY APPLIANCES MUST BE FITTED WITH RE-SEALING BOTTLE OR TUBULAR TRAPS AS MANUFACTURER MCALPINE OR EQUIVALENT AND APPROVED. WHB-BOTTLE TRAP, SINK-TUBULAR TRAP.
3. ALL 110 UPVC STUB STACKS TERMINATE WITH AAV ABOVE FLOOD LEVEL IN VENTILATED PLUMBING DUCT.
4. THE ARCHITECT TO CONFIRM ALL STACK RISER POSITIONS & PROVIDE BOXING DETAILS NECESSARY.
5. ALL PLASTICS 50mmØ & ABOVE FITTED WITH FIRE COLLAR AT ALL FIRE COMPARTMENT WALLS & FLOORS.
6. ALL VISIBLE PIPEWORK AND WASTE FITTINGS & PIPEWORK TO BE CHROME PLATED OR AS ARCHITECTS INSTRUCTIONS.
7. ALL SVPs TO PENETRATE SLAB.
8. ALL SVPs TO BE 110mmØ NOMINAL SIZE.
9. ALL ABOVE GROUND DRAINAGE SHALL COMPLY WITH THE REQUIREMENTS OF BS EN 12056 & BUILDING REGULATIONS APPROVED DOCUMENT PART H.
10. THE CONTRACTOR SHALL ENSURE THAT ALL RODDING EYES ARE FULLY ACCESSIBLE FOR MAINTENANCE PURPOSES.
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ABOVE GROUND DRAINAGE LEGEND

- DRAINAGE PIPEWORK
- PIPEWORK IN CEILING VOID
- PIPEWORK AT LOW LEVEL
- PIPEWORK IN FLOOR VOID
- BA — DN40 TRAPPED WASTE FROM BATH
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- SI — DN40 TRAPPED WASTE FROM SINK C/W 1½" TRAP FOR APPLIANCE CONNECT TO DN50 FLOAT
- SH — DN40 TRAPPED WASTE FROM SHOWER
- WB — DN32 TRAPPED WASTE FROM WASHBASIN
- WC — DN110 PAN CONNECTOR
- RE — RODDING EYE
- SOIL VENT PIPE/STUB STACK DROP
- FG — FLOOR GRILLE
- PUMP — SANIFLO DRAINAGE PUMP (MODEL TBC) LOCATED WITHIN BUILD UP
- ABR 01 — ITEM ABBREVIATION / REFERENCE NUMBER

ABBREVIATIONS

LL	- LOW LEVEL
HL	- HIGH LEVEL
FV	- FLOOR VOID
CV	- CEILING VOID
FB	- FROM BELOW
FA	- FROM ABOVE
DTB	- DROP TO BELOW
RTA	- RISE TO ABOVE
A	- ACCESS POINT
AAV	- AIR ADMITTANCE VALVE
BA	- BATH
BGC	- BELOW GROUND CONNECTION
CO	- CONDENSATE PIPE
DF	- DRINKING FOUNTAIN
FCU	- FAN COIL UNIT
FG	- FLOOR GRILLE
HV	- HEP-VO VALVE
RE	- RODDING EYE
SH	- SHOWER
SI	- SINK
SS	- STUB STACK
SVP	- SOIL VENT PIPE
VC	- VENT COWL
WB	- WASH BASIN
WC	- WATER CLOSET

PIPE LEVEL TAG
FFL TO CENTER OF PIPE (m)
+X.XX INC

TYPICAL ABOVE GROUND DRAINAGE CONNECTION SIZES

DIAMETER (mm)	APPLIANCE	MAX LENGTH OF PIPE (m)
DN32	WASHBASIN	1.7
DN40	WASHBASIN	3
DN40	BATH/SHOWER	3
DN50	BATH/SHOWER	4
DN40	KITCHEN SINK	3
DN50	KITCHEN SINK	4
DN40	DISHWASHER/ WASHING MACHINE	3
DN110	WC	6

Rev.	Date	Description	By	Chk'd	App'd
P04	03.03.25	GA's UPDATED	CMB	CW	LM
P03	29.01.25	REVISED PER COMMENT	CC	CW	LM
P02	06.06.24	TO INCORPORATE COMMENT	KD	CC	LM
P01	11.04.24	REISSUED AT (P) STAGE 5 PREVIOUS DRAWINGS SUPERCEDED	KD	CC	LM

Drawing Suitability

Status

CMB ENGINEERING

Client

ALLIED LONDON

Project Title

LONDON ROAD FIRE STATION

FIRE STATION, LONDON ROAD, MANCHESTER, M1 2PH

Drawing Title

PUBLIC HEALTH SERVICES
ABOVE GROUND DRAINAGE LAYOUT
ROOF LEVEL

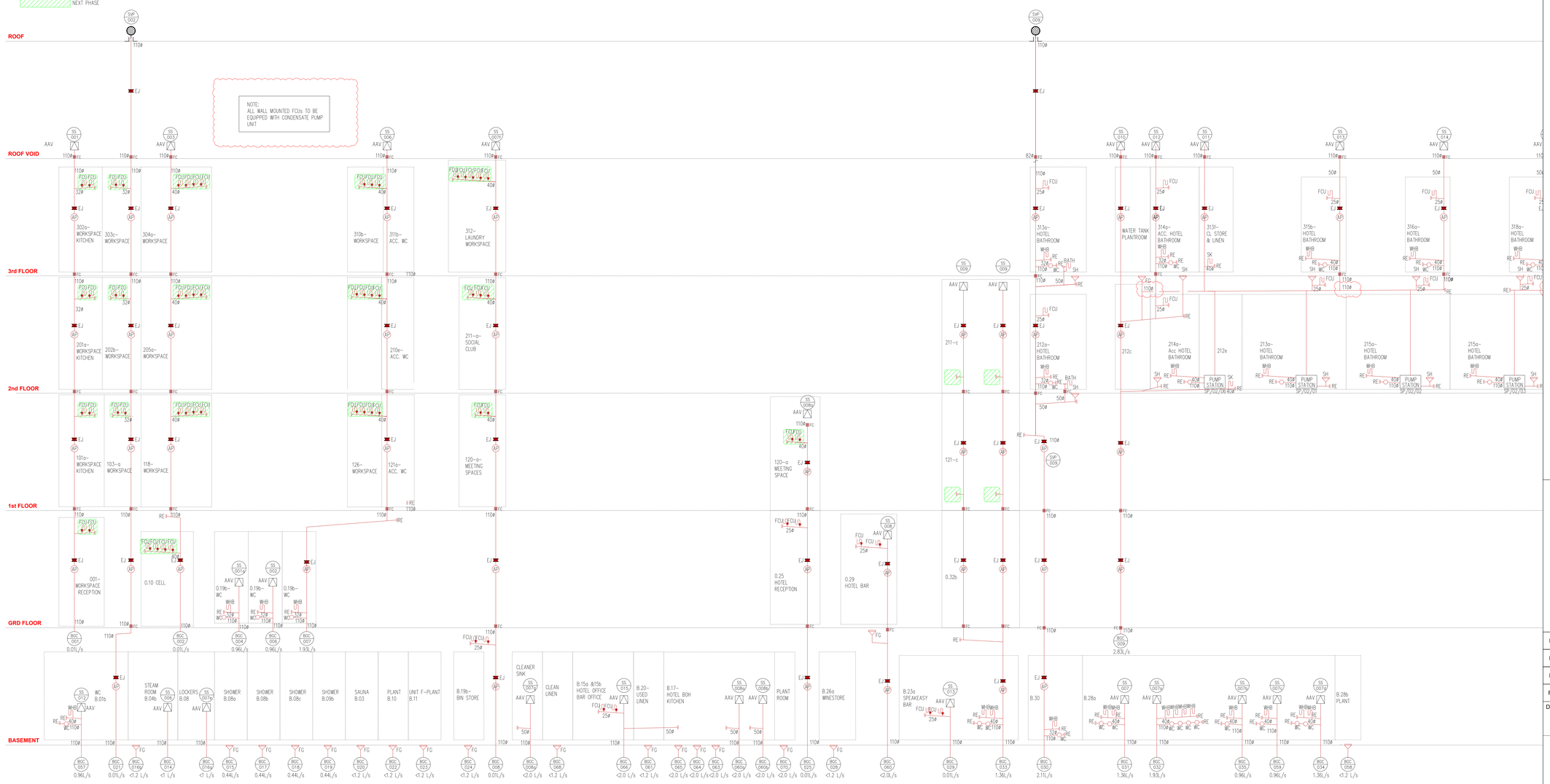
Scale	Designed	Drawn	Checked	Authorised
1:100	CC	KD	CC	LM
Original Size -	Date 11.04.24	Date 11.04.24	Date 11.04.24	Date 11.04.24

Drawing Number

LRFS-CMB-PH-RL-XX-DR-5201

Revision

P04



GENERAL NOTES

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ABOVE GROUND DRAINAGE INSTALLATION

1. ALL SVPS FITTED WITH ACCESS DOOR 1200mm ABOVE FFL.
2. ALL SANITARY APPLIANCES MUST BE FITTED WITH RE–SEALING BOTTLE OR TUBULAR TRAPS AS MANUFACTURER MCALPINE OR EQUIVALENT AND APPROVED. WHB–BOTTLE TRAP, SINK–TUBULAR TRAP.
3. ALL 110 UPVC STUB STACKS TERMINATE WITH AAV ABOVE FLOOD LEVEL IN VENTILATED PLUMBING DUCT.
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8. ALL ABOVE GROUND DRAINAGE SHALL COMPLY WITH THE REQUIREMENTS OF BS EN 12056 & BUILDING REGULATIONS APPROVED DOCUMENT PART H.
9. CONDENSATE DISCHARGE PIPES THAT ARE ROUTED IN AN UNHEATED SPACE SUCH AS A LOFT OR GARAGE SHOULD BE INSULATED TO PREVENT FREEZING.

KEY & LEGEND

- BGC *** – BELOW GROUND CONNECTION REFERENCE
- SVP *** – SOIL VENT PIPE REFERENCE
- SVP *** – STUB STACK REFERENCE
- FG1 – FLOOR GULLY
- AP – ACCESS PANEL
- VENT COWL
- FC – FIRE COLLAR
- RE – RODDING EYE
- AAV – AIR ADMITTANCE VALVE
- EJ – EXPANSION JOINT
- END CAP FOR CONDENSATE PIPE CLEANING PURPOSE
- PIPE REDUCER FITTING

WC	– TOILET
WHB	– WASH BASIN
UR	– URINAL BOWL
SH	– SHOWER
BA	– BATH
CS	– COMMERCIAL SERVICE
KS	– KITCHEN SINK
DW	– DISHWASHER
FG	– FLOOR GULLY
FC	– FIRE COLLAR
SS	– STUB STACK
SVP	– SOIL & VENT PIPE
AAV	– AIR ADMITTANCE VALVE
FCU	– FAN COIL UNIT
CD	– CONDENSATE DRAIN
MVHR	– MVHR UNIT
RE	– RODDING EYE

TYPICAL CONNECTION SIZES

DIA. (mm)	APPLIANCE	MAX. LENGTH OF PIPE (m)
DN32	WASHBASIN	1.7
DN40	WASHBASIN	3
DN40	BATH/SHOWER	3
DN50	BATH/SHOWER	4
DN40	KITCHEN SINK	3
DN50	KITCHEN SINK	4
DN40	DISHWASHER/ WASHING MACHINE	3
DN110	WC	6
DN20	FCU/ CONDENSATE DRAIN	–

Rev.	Date	Description	By	Chk'd	App'd
P03	14.11.24	REVISED PER COMMENTS	CC	CW	LM
P02	06.08.24	TO INCORPORATE COMMENT	KD	CC	LM
P01	19.04.24	REISSUED AT (P) STAGE 5 PREVIOUS DRAWINGS SUPERCEDED	KD	CC	LM

Drawing Suitability

Status

CMB ENGINEERING

Client

ALLIED LONDON

Project Title

LONDON ROAD FIRE STATION

FIRE STATION, LONDON ROAD, MANCHESTER, M1

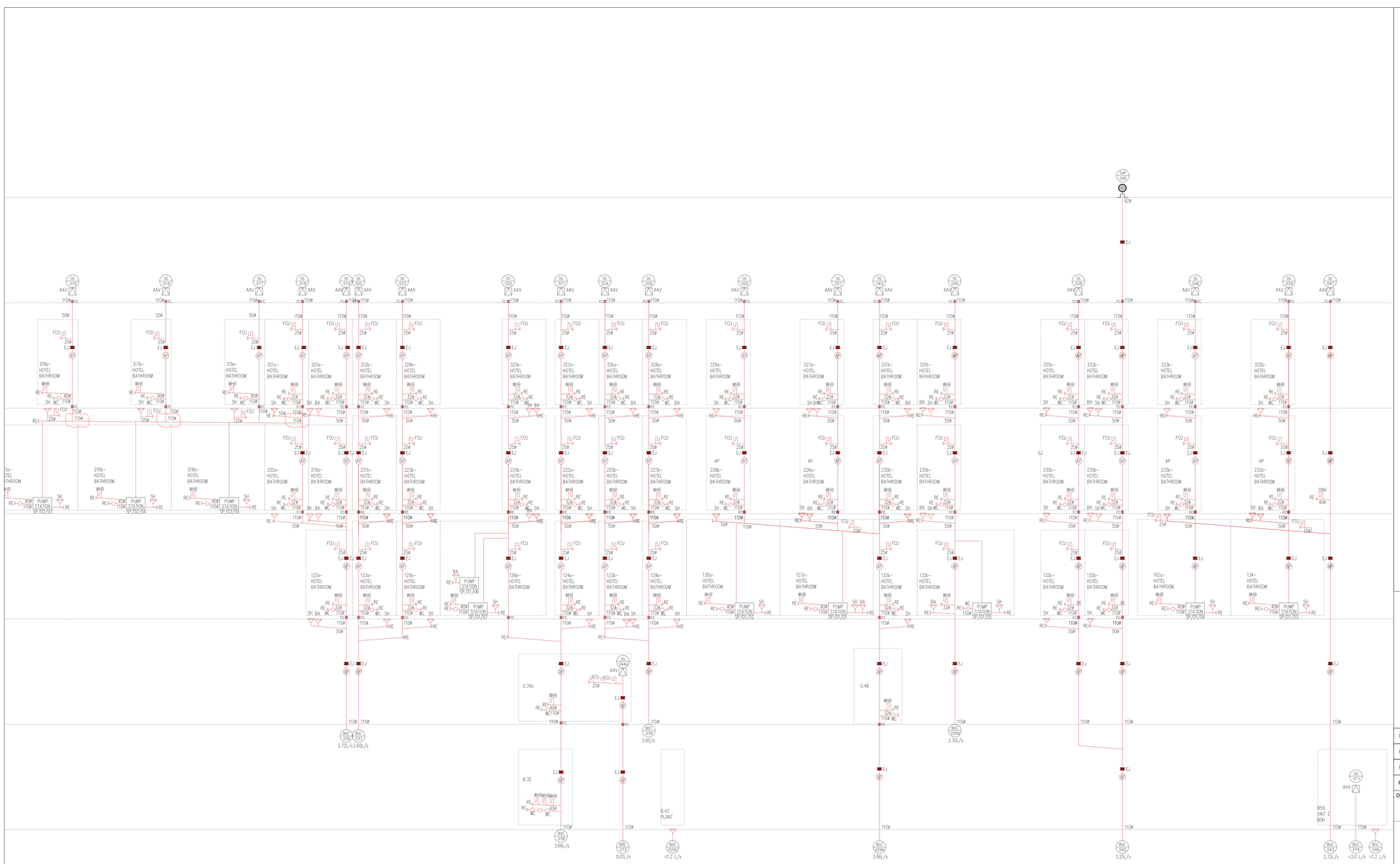
Drawing Title

MECHANICAL SERVICES,
ABOVE GROUND DRAINAGE SCHEMATIC,
SITE WIDE SCHEMATIC SHEET 1 OF 3

Scale	Designed	Drawn	Checked	Authorised
NTS	CC	KD	CC	LM
Original Size: A0	Date: 19/04/24	Date: 19/04/24	Date: 19/04/24	Date: 19/04/24

Drawing Number: LRFS-CMB-PH-XX-XX-SC-5201

Revision: P03



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ABOVE GROUND DRAINAGE INSTALLATION

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2. ALL SANITARY APPLIANCES MUST BE FITTED WITH RE-SEALING BOTTLE OR TUBULAR TRAPS AS MANUFACTURER MCALPINE OR EQUIVALENT AND APPROVED. WHB-BOTTLE TRAP, SINK-TUBULAR TRAP.
3. ALL 110 UPVC STUB STACKS TERMINATE WITH AAV ABOVE FLOOD LEVEL IN VENTILATED PLUMBING DUCT.
4. THE ARCHITECT TO CONFIRM ALL STACK RISER POSITIONS & PROVIDE BOXING DETAILS NECESSARY.
5. ALL PLASTICS 50mmø & ABOVE FITTED WITH FIRE COLLAR AT ALL FIRE COMPARTMENT WALLS & FLOORS.
6. ALL VISIBLE PIPEWORK AND WASTE FITTINGS & PIPEWORK TO BE CHROME PLATED OR AS ARCHITECTS INSTRUCTIONS.
7. ALL SVPs TO BE 110mmø NOMINAL SIZE.
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9. CONDENSATE DISCHARGE PIPES THAT ARE ROUTED IN AN UNHEATED SPACE SUCH AS A LOFT OR GARAGE SHOULD BE INSULATED TO PREVENT FREEZING.

KEY & LEGEND

- BGC *** — BELOW GROUND CONNECTION REFERENCE
- SVP *** — SOIL VENT PIPE REFERENCE
- SVP *** — STUB STACK REFERENCE
- FG1 — FLOOR GULLY
- AP — ACCESS PANEL
- VENT COWL
- FC — FIRE COLLAR
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- PIPE REDUCER FITTING

WC	– TOILET
WHB	– WASH BASIN
UR	– URINAL BOWL
SH	– SHOWER
BA	– BATH
CS	– COMMERCIAL SERVICE
KS	– KITCHEN SINK
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FCU	– FAN COIL UNIT
CD	– CONDENSATE DRAIN
MVHR	– MVHR UNIT
RE	– RODDING EYE

TYPICAL CONNECTION SIZES

DIA. (mm)	APPLIANCE	MAX LENGTH OF PIPE (m)
DN32	WASHBASIN	1.7
DN40	WASHBASIN	3
DN40	BATH/SHOWER	3
DN50	BATH/SHOWER	4
DN40	KITCHEN SINK	3
DN50	KITCHEN SINK	4
DN40	DISHWASHER/ WASHING MACHINE	3
DN110	WC	6
DN20	FCU/ CONDENSATE DRAIN	–

Rev.	Date	Description	By	Chk'd	App'd
P03	14.11.24	REVISED PER COMMENTS	CC	CW	LM
P02	06.08.24	TO INCORPORATE COMMENT	KD	CC	LM
P01	19.04.24	REISSUED AT (P) STAGE 5 PREVIOUS DRAWINGS SUPERCEDED	KD	CC	LM

Drawing Suitability

Status

CMB ENGINEERING

Client

ALLIED LONDON

Project Title

LONDON ROAD FIRE STATION

FIRE STATION, LONDON ROAD, MANCHESTER, M1

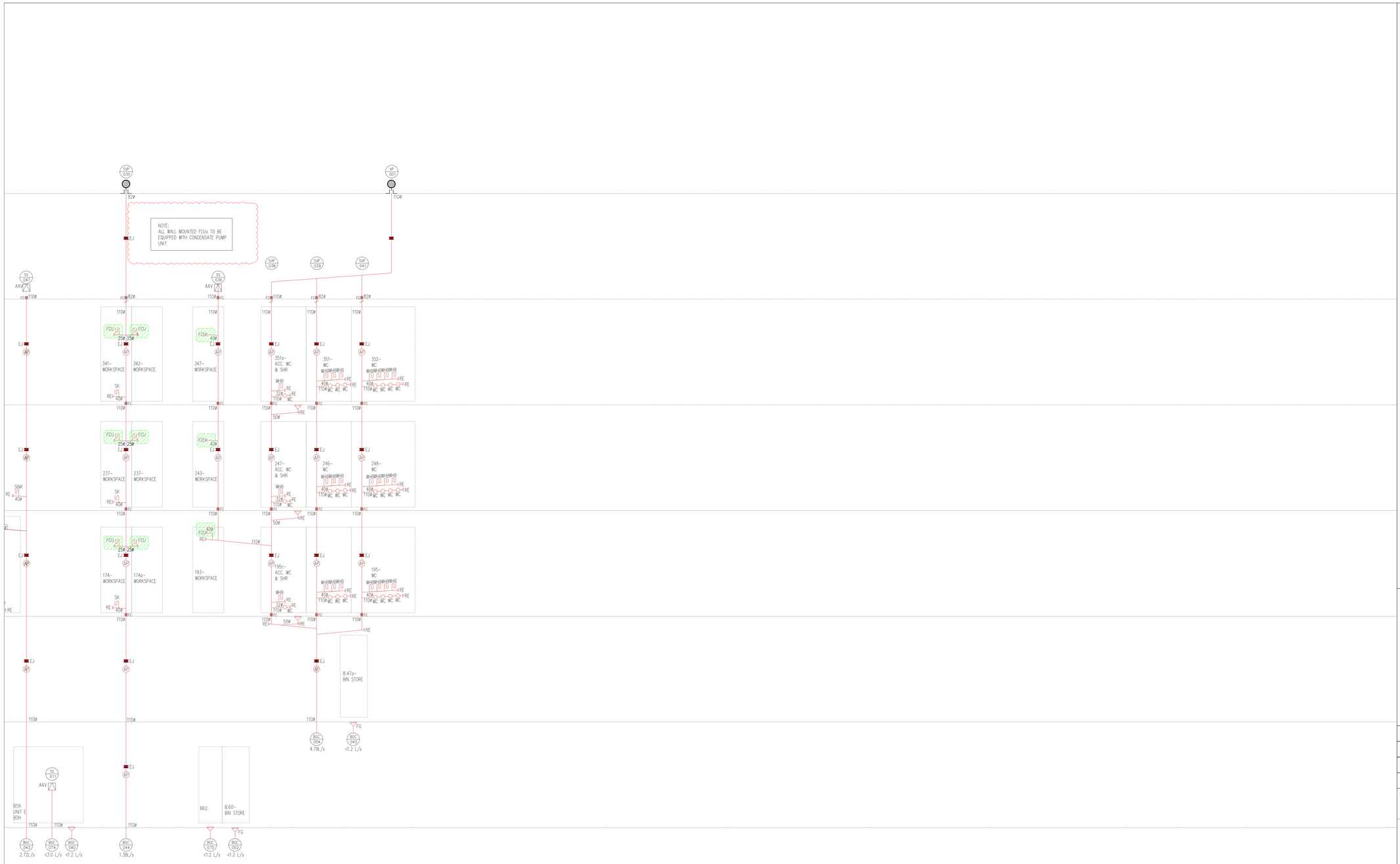
Drawing Title

MECHANICAL SERVICES,
ABOVE GROUND DRAINAGE SCHEMATIC,
SITE WIDE SCHEMATIC SHEET 2 OF 3

Scale	Designed	Drawn	Checked	Authorised
N.T.S.	CC	KD	CC	LM
Original Size: A0	Date: 19/04/24	Date: 19/04/24	Date: 19/04/24	Date: 19/04/24

Drawing Number: LRFS-CMB-PH-XX-XX-SC-5202

Revision: P03



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7. ALL SVPs TO BE 110mmø NOMINAL SIZE.
8. ALL ABOVE GROUND DRAINAGE SHALL COMPLY WITH THE REQUIREMENTS OF BS EN 12056 & BUILDING REGULATIONS APPROVED DOCUMENT PART H.
9. CONDENSATE DISCHARGE PIPES THAT ARE ROUTED IN AN UNHEATED SPACE SUCH AS A LOFT OR GARAGE SHOULD BE INSULATED TO PREVENT FREEZING.

KEY & LEGEND

- BGC *** — BELOW GROUND CONNECTION REFERENCE
- SVP *** — SOIL VENT PIPE REFERENCE
- SVP *** — STUB STACK REFERENCE
- FG — FLOOR GULLY
- AP — ACCESS PANEL
- VENT COWL
- FC — FIRE COLLAR
- RE — RODDING EYE
- AAV — AIR ADMITTANCE VALVE
- EJ — EXPANSION JOINT
- END CAP FOR CONDENSATE PIPE CLEANING PURPOSE
- PIPE REDUCER FITTING

WC	– TOILET
WHB	– WASH BASIN
UR	– URINAL BOWL
SH	– SHOWER
BA	– BATH
CS	– COMMERCIAL SERVICE
KS	– KITCHEN SINK
DW	– DISHWASHER
FC	– FLOOR GULLY
FC	– FIRE COLLAR
SS	– STUB STACK
SVP	– SOIL & VENT PIPE
AAV	– AIR ADMITTANCE VALVE
FCU	– FAN COIL UNIT
CD	– CONDENSATE DRAIN
MVHR	– MVHR UNIT
RE	– RODDING EYE

TYPICAL CONNECTION SIZES

DIA. (mm)	APPLIANCE	MAX. LENGTH OF PIPE (m)
DN32	WASHBASIN	1.7
DN40	WASHBASIN	3
DN40	BATH/SHOWER	3
DN50	BATH/SHOWER	4
DN40	KITCHEN SINK	3
DN50	KITCHEN SINK	4
DN40	DISHWASHER/ WASHING MACHINE	3
DN110	WC	6
DN20	FCU/ CONDENSATE DRAIN	–

Rev.	Date	Description	By	Chk'd	App'd
P03	14.11.24	REVISED PER COMMENTS	CC	CW	LM
P02	06.08.24	TO INCORPORATE COMMENT	KD	CC	LM
P01	19.04.24	REISSUED AT (P) STAGE 5 PREVIOUS DRAWINGS SUPERCEDED	KD	CC	LM

Drawing Suitability

Status

CMB ENGINEERING

Client

ALLIED LONDON

Project Title

LONDON ROAD FIRE STATION

FIRE STATION, LONDON ROAD, MANCHESTER, M1

Drawing Title

MECHANICAL SERVICES,
ABOVE GROUND DRAINAGE SCHEMATIC,
SITE WIDE SCHEMATIC SHEET 3 OF 3

Scale	Designed	Drawn	Checked	Authorised
NTS	CC	KD	CC	LM
Original Size: A0	Date: 19/04/24	Date: 19/04/24	Date: 19/04/24	Date: 19/04/24

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