

Plant Noise Assessment

Block B2, B5, B6, B7, B8 and B9

Carried out for
BDW Trading Limited (Barratt West London)

Report 107362/1

Compiled by Rebecca Hogg

16 June 2025



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Plant Noise Assessment

Block B2, B5, B6, B7, B8 and B9

Carried out for: BDW Trading Limited (Barratt West London)
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Hayes
UB3 4QF
United Kingdom

Contract: Report 107362/1

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QUALITY ASSURANCE

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Final	16-Jun-2025	Rebecca Hogg	Peter Tse	
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1 INTRODUCTION

Barratt West London (the client) commissioned BSRIA to carry out a plant noise assessment at Block B2, B5, B6, B7, B8 and B9 of Nestle Hayes Village. The purpose of the plant noise assessment was to demonstrate compliance, or otherwise, with Planning Condition 21, which was supplied by the client, and is given below.

Condition 21 – Post installation noise assessment

"The rating level of noise emitted from the plant and/or machinery hereby approved shall be at least 5 dB below the existing background noise level. The noise levels shall be determined at the nearest residential property. The measurements and assessment shall be made in accordance with British Standard 4142:2014. A post installation noise assessment shall be carried out where required to confirm compliance with the noise criteria and additional steps to mitigate noise shall be taken, as necessary. Approved details shall be implemented prior to occupation of the development and thereafter be permanently retained."

The plant noise assessment was carried on 21st May 2025 on Blocks B5, B6 and B7, and 29th May 2025 on Blocks B2, B8 and B9 at Nestle Hayes Village, Nestles Avenue, Hayes, UB3 4RF.

The weather during the monitoring period on 21st May 2025 was warm and dry with a temperature of 20°C with slight breeze. The weather during the monitoring period on 29th May 2025 was warm and dry with a temperature of 20°C with fluctuations in wind. Weather conditions were within the requirements of the standard.

This report details the acoustic methodology and measurement results.

2 METHODOLOGY

The objective of the plant noise assessment was to determine compliance, or otherwise, with Planning Condition 21. The client provided drawings of the plant locations which are given in Appendix A. Photographs are given in Appendix B.

The client provided a report with the required noise criteria entitled "Acoustic Assessment Report" dated 17th October 2019 Rev. no. 3, and the noise criteria is given in Table 1. The blocks are nearest to measurement position 3 or 4 and therefore the lower criteria of position 4 is used.

Table 1 Noise Criteria

Measurement Position	Daytime Plant Operation (07:00 – 23:00)	Night time Plant Operation (23:00 – 07:00)
Position 1 – Nestles Avenue	50 dB	47 dB
Position 2 – Squirrels Trading Estate	51 dB	47 dB
Position 3 – Railway	49 dB	47 dB
Position 4 – Centre of Site	48 dB	43 dB

The calibration details of the instrumentation used during the acoustic testing are given in Table 2.

Table 2 Instrumentation Calibration Details

Instrument	Manufacturer	Range	Units	Serial number	Calibration Due Date
Nor140 sound level meter	Norsonic	0 – 130	dB	1406333	27/02/2026
Nor1251 acoustic calibrator	Norsonic	114	dB	34437	13/03/2026

Noise measurements were carried out on the roof of each block at an appropriate distance from the operational plant. A Nor140 sound level meter was installed at each monitoring location. The sound level meter was calibrated before and after the measurement period.

The client was responsible for operating the plant during the measurement period. The client stated the plant was operating in Environmental Mode, which was the typical operation of the plant. The plant was operated for a short period to ensure stable operation and then a measurement was taken for 1 minute. For the BS 4142 assessment a worst-case scenario of the plant operating all day and night was used.

Due to the low noise levels of the plant noise compared to background noise levels it was not possible to measure at the closest receptor locations and therefore the alternative methodology in the standard of measuring close to the noise source (plant) and calculating the noise level at the nearest receptor. The nearest residential properties are on the balcony below or adjacent blocks with a minimum distance of at least 10m, which was used as a worse-case scenario for the noise assessment.

3 RESULTS

3.1 BLOCK B2

The results of the noise monitoring on Block B2 are given in Table 3. The fan was slightly audible at the measurement location during the measurement period.

Table 3 Block B2 Result of Noise Monitoring

Operating conditions	Location	Noise Level
Ambient noise levels - no plant	Roof of Block B2	49.9
Plant operating	Roof of Block B2 – 3m from fan extract	51.5
Plant operating	Nearest residential property	41.5 (predicted)

3.2 BLOCK B5

The results of the noise monitoring on Block B5 are given in Table 4. The plant fan was barely audible at the measurement location during the measurement period. The ambient noise levels included occasional construction activities on other areas of the site.

Table 4 Block B5 Result of Noise Monitoring

Operating conditions	Location	Noise Level
Ambient noise levels – no plant	Roof of Block B5	52.5
Plant operating	Roof of Block B5 – 3m from fan extract	52.1
Plant operating	Nearest residential property	42.1 (predicted)

3.3 BLOCK B6

The results of the noise monitoring on Block B6 are given in Table 5. The fan was slightly audible at the measurement location during the measurement period.

Table 5 Block B6 Result of Noise Monitoring

Operating conditions	Location	Noise Level
Ambient noise levels – no plant	Roof of Block B6	51.1
Plant operating	Roof Block B6 – 3m from fan extract	52.6
Plant operating	Nearest residential property	42.6 (predicted)

3.4 BLOCK B7

The results of the noise monitoring on Block B7 are given in Table 6. The fan was slightly audible at the measurement location during the measurement period. The ambient noise levels included occasional trains.

Table 6 Block B7 Result of Noise Monitoring

Operating conditions	Location	Noise Level
Ambient noise levels – no plant	Roof of Block B7	48
Plant operating	Roof of Block B7 – 3m from fan extract	49
Plant operating	Nearest residential property	39 (predicted)

3.5 BLOCK B8

The results of the noise monitoring on Block B8 are given in Table 7. The fan was slightly audible at the measurement location during the measurement period.

Table 7 Block B8 Result of Noise Monitoring

Operating conditions	Location	Noise Level
Ambient noise levels – no plant	Roof of Block B8	49.5
Plant operating	Roof of Block B8 – 3m from fan extract	53.2
Plant operating	Nearest residential property	43.2 (predicted)

3.6 BLOCK B9

The results of the noise monitoring on Block B9 are given in Table 8. The plant fan was barely audible at the measurement location during the measurement period.

Table 8 Block B9 Result of Noise Monitoring

Operating conditions	Location	Noise Level
Ambient noise levels – no plant	Roof of Block B9	53.5
Plant operating	Roof of Block B9 – 3m from fan extract	52.7
Plant operating	Nearest residential property	42.7 (predicted)

3.7 COMPLIANCE ASSESSMENT

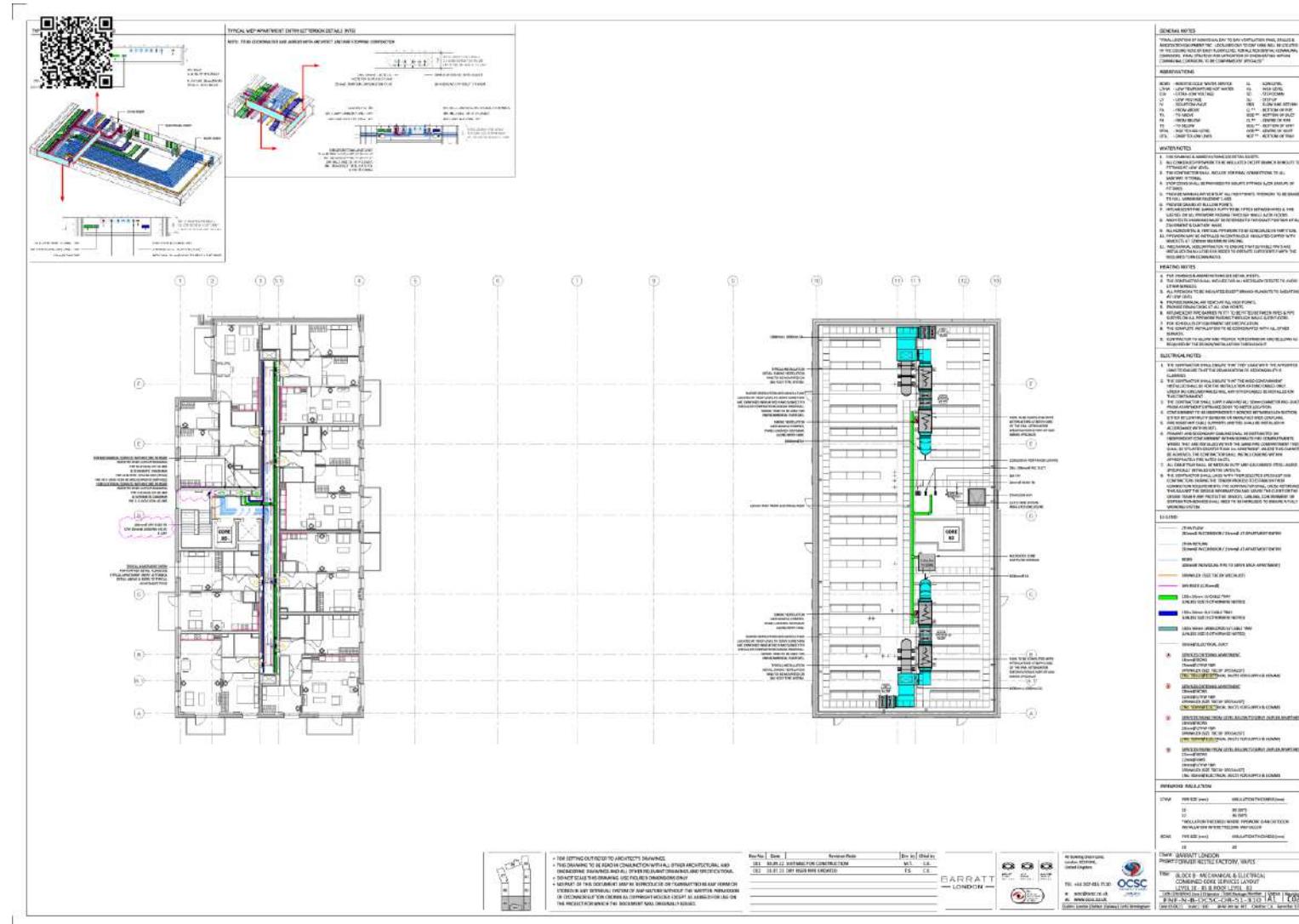
Table 9 outlines if each block complies with Planning Condition 21 for daytime and night-time noise levels.

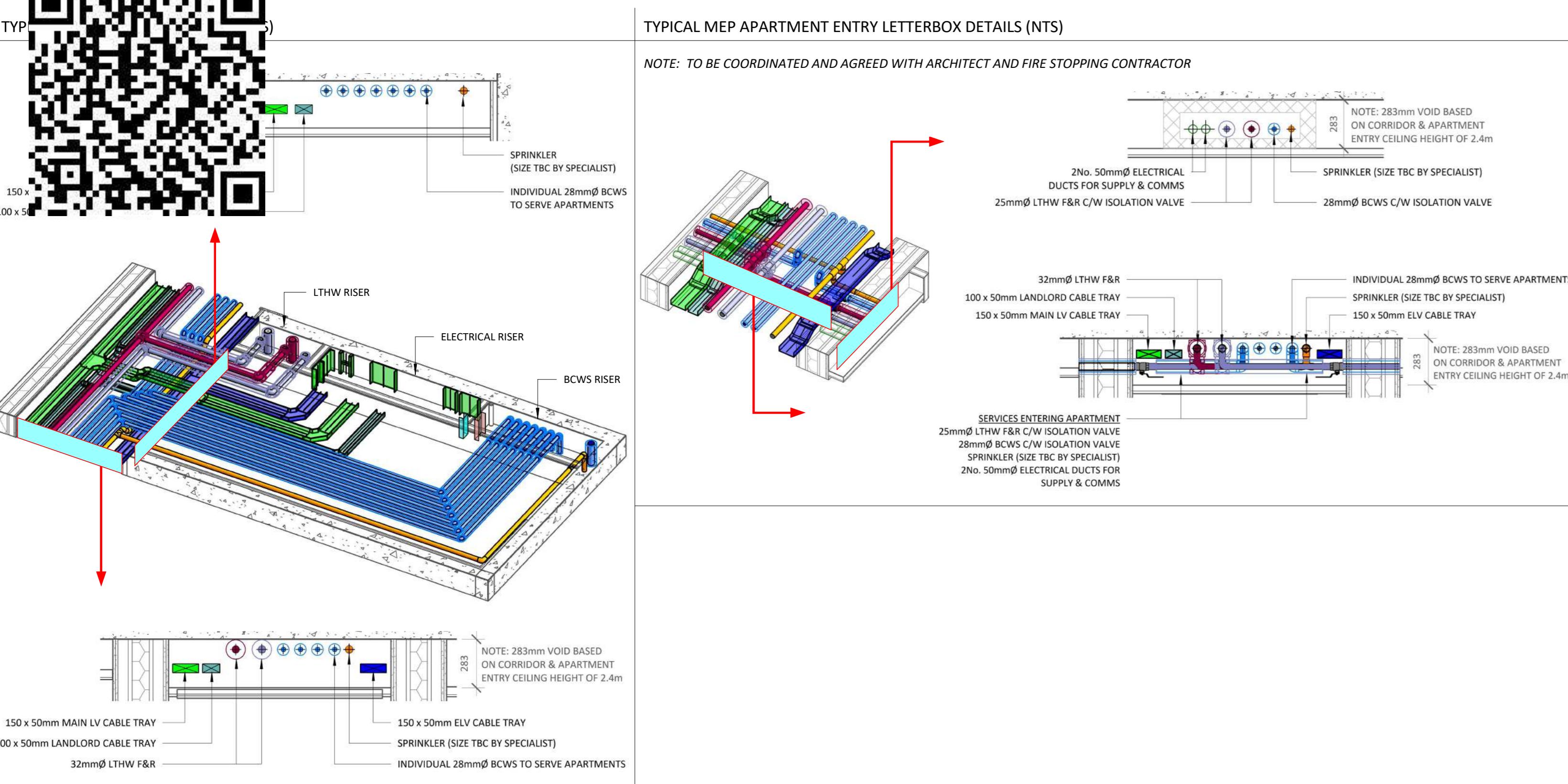
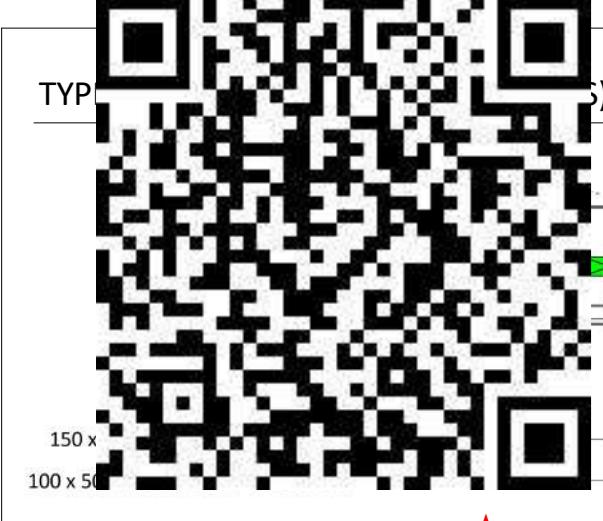
Table 9 Block B9 Result of Noise Monitoring

Block	Complies Daytime Criteria	Complies Night-time Criteria
B2	Yes	Yes
B5	Yes	Yes
B6	Yes	Yes
B7	Yes	Yes
B8	Yes	Yes a)
B9	Yes	Yes

a) 0.2dB exceedance which is insignificant and represents worst-case scenario of fan on all night, which is highly unlikely

APPENDIX A: DRAWINGS



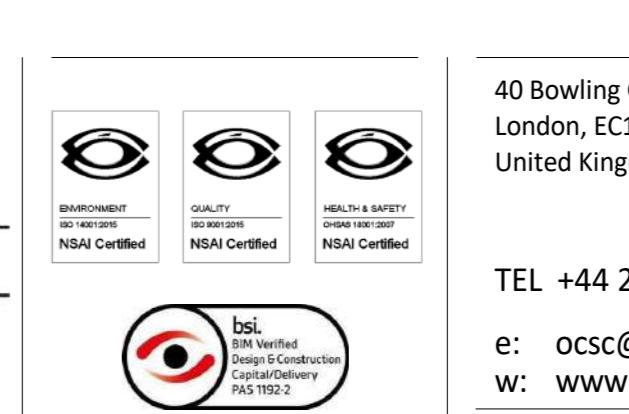


FOR SETTING OUT REFER TO ARCHITECT'S DRAWINGS.
 • THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER ARCHITECTURAL AND ENGINEERING DRAWINGS AND ALL OTHER RELEVANT DRAWINGS AND SPECIFICATIONS.
 • DO NOT SCALE THIS DRAWING. USE FIGURED DIMENSIONS ONLY.
 • NO PART OF THIS DOCUMENT MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM OR STORED IN ANY RETRIEVAL SYSTEM OF ANY NATURE WITHOUT THE WRITTEN PERMISSION OF O'CONNOR SUTTON CRONIN AS COPYRIGHT HOLDER EXCEPT AS AGREED FOR USE ON THE PROJECT FOR WHICH THE DOCUMENT WAS ORIGINALLY ISSUED.

Rev No.	Date	Revision Note	Drn by	Chkd by
C01	30.09.22	SUITABLE FOR CONSTRUCTION	M.T.	C.K.
C02	18.07.23	DRY RISER PIPE UPDATED	T.S.	C.K.

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 Title: BLOCK B - MECHANICAL & ELECTRICAL
 COMBINED CORE SERVICES LAYOUT
 LEVEL 10 - BS & ROOF LEVEL - B3
 Code: Discipline: Zone: Originator: Type: Package: Number: Status: Revision
 FNF-N-B-OCSC-DR-51-310 A1 C02
 Date: 03.08.21 Scale: 1:100 @ A0 Drn by: M.T. Chkd by: C.K. Aproved by: S.T.

GENERAL NOTES
 FINAL LOCATION OF INDIVIDUAL DAY TO DAY VENTILATION FANS, GRILLES & ASSOCIATED EQUIPMENT TBC. LOCALISED DAY TO DAY FANS WILL BE LOCATED IN THE CEILING VOID OF EACH FLOOR LEVEL FOR ALL RESIDENTIAL COMMUNAL CORRIDORS. FINAL STRATEGY FOR MITIGATION OF OVERHEATING WITHIN COMMUNAL CORRIDORS TO BE CONFIRMED BY SPECIALIST

ABBREVIATIONS

BCWS	- BOOSTED COLD WATER SERVICE	LL	- LOW LEVEL
LTHW	- LOW TEMPERATURE HOT WATER	HL	- HIGH LEVEL
ELV	- EXTRA-LOW VOLTAGE	SD	- STEP DOWN
LV	- LOW VOLTAGE	SU	- STEP UP
BCWS	- BOOSTED COLD WATER SERVICE	DN	- DRAINED DOWN
FA	- FROM ABOVE	BT	- BOTTOM
TA	- TO ABOVE	BD	- BOTTOM OF DUCT
FB	- FROM BELOW	CL	- CENTRE OF PIPE
TB	- TO BELOW	BU	- BOTTOM OF UNIT
RTH	- RISE TO HIGH LEVEL	COD	- CENTRE OF DUCT
DTL	- DROP TO LOW LEVEL	BOT	- BOTTOM OF TRAY

WATER NOTES

- FOR SYMBOLS & ABBREVIATIONS SEE DETAIL SHEETS.
- ALL CONCEALED PIPEWORK TO BE INSULATED EXCEPT BRANCH RUNOUTS TO FITTINGS AT LOW LEVEL.
- THE CONTRACTOR SHALL INCLUDE FOR FINAL CONNECTIONS TO ALL SANITARY FITTINGS.
- STOP COCKS SHALL BE PROVIDED TO ISOLATE FITTINGS & OR GROUPS OF FITTINGS.
- PROVIDE MANUAL AIR VENTS AT ALL HIGH POINTS. PIPEWORK TO BE GRADED TO FALL. MINIMUM GRADIENT 1:300.
- PROVIDE DRAINS AT ALL LOW POINTS.
- INTUMESCENT FIRE BARRIER PUTTY TO BE FITTED BETWEEN PIPES & PIPE SLEEVES ON ALL PIPEWORK PASSING THROUGH WALLS & /OR FLOORS.
- ARCHITECTS DRAWINGS MUST BE REFERRED TO FOR EXACT POSITION OF ALL HORIZONTAL & VERTICAL PIPEWORK.
- ALL PIPEWORK MAY BE INSTALLED IN CONTINUOUS INSULATED COPPER WITH BRACKETS AT 1200mm MAXIMUM SPACING.
- MECHANICAL SUITABILITY CHECKS TO ENSURE THAT SUITABLE PIV'S ARE INSTALLED ON ALL LEVELS IN ORDER TO OPERATE SUFFICIENTLY WITH THE REQUIRED TURN DOWN RATIO.

HEATING NOTES

- FOR SYMBOLS & ABBREVIATIONS SEE DETAIL SHEETS.
- THE CONTRACTOR SHALL INCLUDE FOR ALL NECESSARY OFFSETS TO AVOID OTHER SERVICES.
- ALL PIPEWORK TO BE INSULATED EXCEPT BRANCH RUNOUTS TO RADIATORS AT LOW LEVEL.
- PROVIDE DRAIN COCKS AT ALL HIGH POINTS.
- INTUMESCENT FIRE BARRIER PUTTY TO BE FITTED BETWEEN PIPES & PIPE SLEEVES ON ALL PIPEWORK PASSING THROUGH WALLS & /OR FLOORS.
- FOR SCHEDULES OF EQUIPMENT SEE SPECIFICATION.
- THE COMPLETE INSTALLATION TO BE COORDINATED WITH ALL OTHER SERVICES.
- CONTRACTOR TO ALLOW AND PROVIDE FOR EXPANSION AND BELLows AS REQUIRED BY THE DESIGN/INSTALLATION THROUGHOUT.

ELECTRICAL NOTES

- THE CONTRACTOR SHALL ENSURE THAT THEY liaise WITH THE APPOINTED IDDO TO ENSURE THAT THE DEMARcation OF RESPONSIBILITY IS CLARIFIED.
- THE CONTRACTOR SHALL ENSURE THAT THE IDDO CONTAINMENT INSTALLED SHALL BE FOR THE INSTALLATION OF IDDO CABLES ONLY. UNDER NO CIRCUMSTANCES WILL ANY OTHER CABLES BE INSTALLED ON THIS CONTAINMENT.
- THE CONTRACTOR SHALL ENSURE THAT THE IDDO CONTAINMENT IS SECURELY BONDED TO METAL LOCATION.
- CONTAINMENT TO BE INDEPENDENTLY BONDED BETWEEN EACH SECTION EITHER BY CONTINUITY BONDING OR MANUFACTURER COUPLING.
- FIRE RESISTANT CABLE SUPPORTS AND TIes SHALL BE INSTALLED IN ACCORDANCE WITH B576/3.
- PRIMARY AND SECONDARY CABLE LAYING SHALL BE DISTRIBUTED ON INDIVIDUAL FLOOR PLATES WITHIN SEPARATE FIRE COMPARTMENTS. WHERE THEY ARE INSTALLED WITHIN THE SAME FIRE COMPARTMENT THEY SHALL BE SITUATED GREATER THAN 2m APARTMENT. WHERE THIS CANNOT BE ACHIEVED, THE CONTRACTOR SHALL INSTALL CABLING WITHIN APPROPRIATELY RATED DUCTS.
- ALL CABLE TRAY SHALL BE MEDIUM DUTY MIP GALVANISED STEEL UNLESS SPECIFICALLY DETAINED IN LAYOUTS.
- EVACUATION CABLES TO BE LIAISED WITH THE SELECTED SPECIALIST SUB-CONTRACTORS DURING THE TENDER PROCESS TO ESTABLISH THEIR CONNECTION REQUIREMENTS. THE CONTRACTOR SHALL CROSS REFERERENCE THIS AGAINST THE DESIGN INFORMATION AND ADVISE THE CLIENT OR THE DESIGN TEAM IF ANY PROTECTIVE DEVICES, CABLING, CONTAINMENT OR DISTRIBUTION BOARDS SHALL NEED TO BE INCREASED TO ENSURE A FULLY WORKING SYSTEM.

LEGEND

LTHW FLOW	(32mm ^Ø IN CORRIDOR / 25mm ^Ø AT APARTMENT ENTRY)
LTHW RETURN	(32mm ^Ø IN CORRIDOR / 25mm ^Ø AT APARTMENT ENTRY)
BCWS	(28mm ^Ø INDIVIDUAL PIPE TO SERVE EACH APARTMENT)
SPRINKLER	(SIZE TBC BY SPECIALIST)
DRY RISER	(125mm ^Ø)
150 x 50mm LV CABLE TRAY	(UNLESS SIZE IS OTHERWISE NOTED)
150 x 50mm ELV CABLE TRAY	(UNLESS SIZE IS OTHERWISE NOTED)
100 x 50mm LANDLORDS LV CABLE TRAY	(UNLESS SIZE IS OTHERWISE NOTED)
50mm ^Ø ELECTRICAL DUCT	
A	SERVICES ENTERING APARTMENT 28mm ^Ø BCWS 25mm ^Ø LTHW F&R SPRINKLER (SIZE TBC BY SPECIALIST) 2No. 50mm ^Ø ELECTRICAL DUCTS FOR SUPPLY & COMMS
B	SERVICES ENTERING APARTMENT 28mm ^Ø BCWS 32mm ^Ø LTHW F&R SPRINKLER (SIZE TBC BY SPECIALIST) 2No. 50mm ^Ø ELECTRICAL DUCTS FOR SUPPLY & COMMS
C	SERVICES RISING FROM LEVEL BELOW TO SERVE DUPLEX APARTMENT 22mm ^Ø BCWS 22mm ^Ø LTHW F&R SPRINKLER (SIZE TBC BY SPECIALIST) 1No. 50mm ^Ø ELECTRICAL DUCTS FOR SUPPLY & COMMS
D	SERVICES RISING FROM LEVEL BELOW TO SERVE DUPLEX APARTMENT 28mm ^Ø BCWS 22mm ^Ø LTHW F&R SPRINKLER (SIZE TBC BY SPECIALIST) 1No. 50mm ^Ø ELECTRICAL DUCTS FOR SUPPLY & COMMS

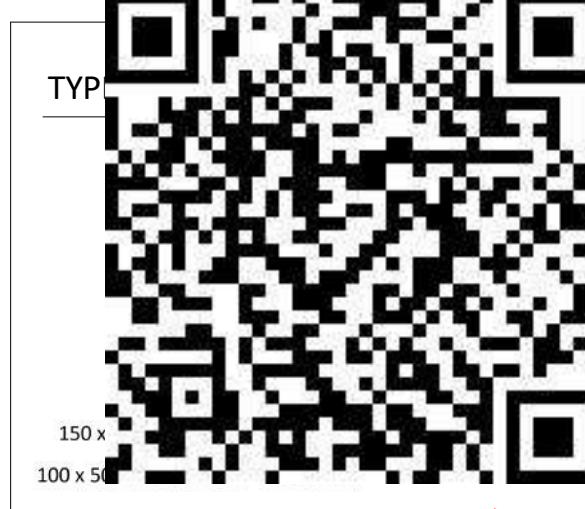
PIPEWORK INSULATION

LTHW	PIPE SIZE (mm)	INSULATION THICKNESS (mm)
	25	30 (50 ⁺)
	32	35 (50 ⁺)

*INSULATION THICKNESS WHERE PIPEWORK IS AN OUTDOOR INSTALLATION WHERE FREEZING MAY OCCUR

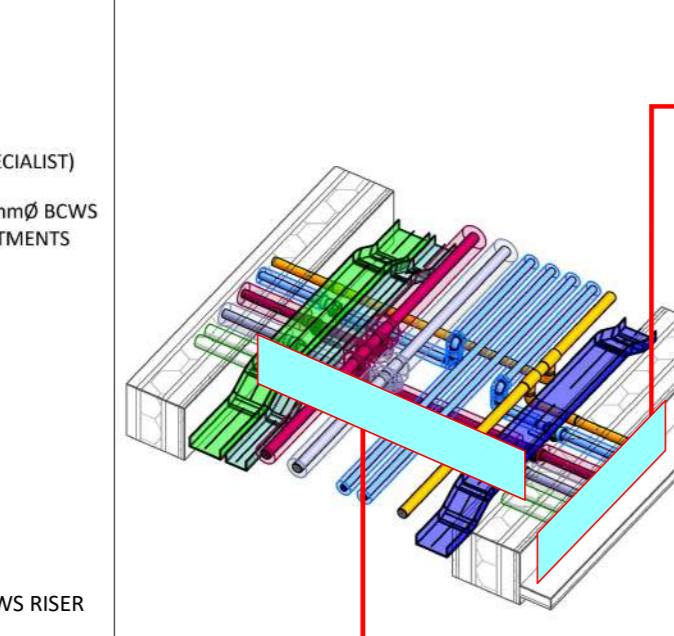
BCWS	PIPE SIZE (mm)	INSULATION THICKNESS (mm)
	28	20

Client: BARRATT LONDON
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 Title: BLOCK B - MECHANICAL & ELECTRICAL
 COMBINED CORE SERVICES LAYOUT
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 Date: 03.08.21 Scale: 1:100 @ A0 Drn by: M.T. Chkd by: C.K. Aproved by: S.T.



TYPICAL MEP APARTMENT ENTRY LETTERBOX DETAIL

NOTE: TO BE COORDINATED AND AGREED WITH ARCHITECT AND FIRE STOPPING



NOTE: 283mm VOID BASED ON CORRIDOR & APARTMENT ENTRY CEILING HEIGHT OF 2.4m

2No. 50mmØ ELECTRICAL DUCTS FOR SUPPLY & COMMS

25mmØ LTHW F&R C/W ISOLATION VALVE

SPRINKLER (SIZE TBC BY SPECIALIST)

28mmØ BCWS C/W ISOLATION VALVE

32mmØ LTHW F&R

100 x 50mm LANDLORD CABLE TRAY

150 x 50mm MAIN LV CABLE TRAY

INDIVIDUAL 28mmØ BCWS TO SERVE APARTMENT

SPRINKLER (SIZE TBC BY SPECIALIST)

150 x 50mm ELV CABLE TRAY

SERVICES ENTERING APARTMENT

25mmØ LTHW F&R C/W ISOLATION VALVE

28mmØ BCWS C/W ISOLATION VALVE

SPRINKLER (SIZE TBC BY SPECIALIST)

2No. 50mmØ ELECTRICAL DUCTS FOR SUPPLY & COMMS

NOTE: 283mm VOID BASED ON CORRIDOR & APARTMENT ENTRY CEILING HEIGHT OF 2.4m

Architectural floor plan showing a staircase and landing levels. The plan includes a rectangular room with a staircase, a landing with a circular callout labeled '8.1', and another landing with a circular callout labeled '8.2'. A third circular callout labeled '9' is located above the second landing. Dashed lines indicate the continuation of the floor plan beyond the visible area.

The image shows a detailed architectural floor plan of a building. The plan includes various apartment units, each with its own layout of rooms, windows, and doors. A specific detail is highlighted with a callout line and a circle containing the letter 'V', which points to a detailed view of a typical apartment entry. This entry detail shows the exterior wall, a door, and a window. The plan also features several other symbols, such as a yellow circle with a black arrow and a diamond shape, which likely indicate specific features or points of interest.

TYPICAL APARTMENT ENTRY
FOR FURTHER DETAIL PLEASE SEE
TYPICAL APARTMENT ENTRY LETTER
DETAIL ABOVE & REFER TO TYPICAL
APARTMENT TYPES

IN THE CEILING VOID OF EACH FLOOR LEVEL FOR ALL RESIDENTIAL COMMUNAL CORRIDORS. FINAL STRATEGY FOR MITIGATION OF OVERHEATING WITHIN COMMUNAL CORRIDORS TO BE CONFIRMED BY SPECIALIST"	
ABBREVIATIONS	
BCWS - BOOSTED COLD WATER SERVICE	LL - LOW LEVEL
LTHW - LOW TEMPERATURE HOT WATER	HL - HIGH LEVEL
ELV - EXTRA-LOW VOLTAGE	SD - STEP DOWN
LV - LOW VOLTAGE	SU - STEP UP
IV - ISOLATION VALVE	F&R - FLOW AND RETURN
FA - FROM ABOVE	LL ** - BOTTOM OF PIPE
TA - TO ABOVE	BOD ** - BOTTOM OF DUCT
FB - FROM BELOW	CL ** - CENTRE OF PIPE
TB - TO BELOW	BOU ** - BOTTOM OF UNIT
RTHL - RISE TO HIGH LEVEL	COD ** - CENTRE OF DUCT
DTLL - DROP TO LOW LEVEL	BOT ** - BOTTOM OF TRAY

TES

ON OF INDIVIDUAL DAY TO DAY VENTILATION FANS, GRILLES & EQUIPMENT TBC. LOCALISED DAY TO DAY FANS WILL BE LOCATED AHEAD OF EACH FLOOR LEVEL FOR ALL RESIDENTIAL COMMUNAL AL STRATEGY FOR MITIGATION OF OVERHEATING WITHIN RRIDORS TO BE CONFIRMED BY SPECIALIST"

NS

ED COLD WATER SERVICE	LL	- LOW LEVEL
MPERATURE HOT WATER	HL	- HIGH LEVEL
LLOW VOLTAGE	SD	- STEP DOWN
OLTAGE	SU	- STEP UP
ON VALVE	F&R	- FLOW AND RETURN
ABOVE	LL **	- BOTTOM OF PIPE
VE	BOD **	- BOTTOM OF DUCT
ELOW	CL **	- CENTRE OF PIPE
OW	BOU **	- BOTTOM OF UNIT
HIGH LEVEL	COD **	- CENTRE OF DUCT
O LOW LEVEL	BOT **	- BOTTOM OF TRAY

5.2. ADDITIONAL TOPICS

LED PIPEWORK TO BE INSULATED EXCEPT BRANCH RUNOUTS TO LOW LEVEL.

CTOR SHALL INCLUDE FOR FINAL CONNECTIONS TO ALL FITTINGS.

SHALL BE PROVIDED TO ISOLATE FITTINGS &/OR GROUPS OF

NUAL AIR VENTS AT ALL HIGH POINTS. PIPEWORK TO BE GRADED AT A MINIMUM GRADIENT 1:300.

AINS AT ALL LOW POINTS.

IT FIRE BARRIER PUTTY TO BE FITTED BETWEEN PIPES & PIPE RAIL ALL PIPEWORK PASSING THROUGH WALLS &/OR FLOORS.

DRAWINGS MUST BE REFERRED TO FOR EXACT POSITION OF ALL FITTINGS & SANITARY WARE.

ITAL & VERTICAL PIPEWORK TO BE CONCEALED IN PARTITION. MAY BE INSTALLED IN CONTINUOUS INSULATED COPPER WITH A 1200mm MAXIMUM SPACING.

L SUBCONTRACTOR TO ENSURE THAT SUITABLE PRV'S ARE INSTALLED IN ALL LEVELS IN ORDER TO OPERATE SUFFICIENTLY WITH THE TURN DOWN RATIO.

-TES

S & ABBREVIATIONS SEE DETAIL SHEETS.

CTOR SHALL INCLUDE FOR ALL NECESSARY OFFSETS TO AVOID
ICES.

ORK TO BE INSULATED EXCEPT BRANCH RUNOUTS TO RADIATORS
EL.

ANUAL AIR VENTS AT ALL HIGH POINTS.

AIN COCKS AT ALL LOW POINTS.

NT FIRE BARRIER PUTTY TO BE FITTED BETWEEN PIPES & PIPE
ALL PIPEWORK PASSING THROUGH WALLS &/OR FLOORS.

LES OF EQUIPMENT SEE SPECIFICATION.

TE INSTALLATION TO BE COORDINATED WITH ALL OTHER

R TO ALLOW AND PROVIDE FOR EXPANSION AND BELLOWS AS
Y THE DESIGN/INSTALLATION THROUGHOUT.

NOTES

ACTOR SHALL ENSURE THAT THEY LIAISE WITH THE APPOINTED
SURE THAT THE DEMARCTION OF RESPONSIBILITY IS
ACTOR SHALL ENSURE THAT THE INDO CONTAINMENT
HALL BE FOR THE INSTALLATION OF IDNO CABLES ONLY.
CIRCUMSTANCES WILL ANY OTHER CABLES BE INSTALLED ON
NMENT.

ACTOR SHALL SUPPLY AND INSTALL 50mm DIAMETER RIGI-DUCT
TMENT ENTRANCE DOOR TO METER LOCATION.

NT TO BE INDEPENDENTLY BONDED BETWEEN EACH SECTION
ONTINUITY BONDING OR MANUFACTURER COUPLING.

ANT CABLE SUPPORTS AND TIES SHALL BE INSTALLED IN
E WITH BS7671.

ND SECONDARY CABLING SHALL BE DISTRIBUTED ON
NT CONTAINMENT WITHIN SEPARATE FIRE COMPARTMENTS.
Y ARE INSTALLED WITHIN THE SAME FIRE COMPARTMENT THEY
TUATED GREATER THAN 3m APARTMENT. WHERE THIS CANNOT
D, THE CONTRACTOR SHALL INSTALL CABLING WITHIN
EY FIRE RATED DUCTS.

RAY SHALL BE MEDIUM DUTY MRF GALVANISED STEEL UNLESS
Y DETAILED ON THE LAYOUTS.

ACTOR SHALL LIAISE WITH THEIR SELECTED SPECIALIST SUB-
RS DURING THE TENDER PROCESS TO ESTABLISH THEIR
N REQUIREMENTS. THE CONTRACTOR SHALL CROSS REFERENCE
T THE DESIGN INFORMATION AND ADVISE THE CLIENT OR THE
M IF ANY PROTECTIVE DEVICES, CABLING, CONTAINMENT OR
N BOARDS SHALL NEED TO BE INCREASED TO ENSURE A FULLY
Y STEM.

1. *What is the primary purpose of the study?*

- W FLOW
mmØ IN CORRIDOR / 25mmØ AT APARTMENT ENTRY)

W RETURN
mmØ IN CORRIDOR / 25mmØ AT APARTMENT ENTRY)

/S
mmØ INDIVIDUAL PIPE TO SERVE EACH APARTMENT)

NKLER (SIZE TBC BY SPECIALIST)

RISER (125mmØ)

x 50mm LV CABLE TRAY
(LESS SIZE IS OTHERWISE NOTED)

x 50mm ELV CABLE TRAY
(LESS SIZE IS OTHERWISE NOTED)

x 50mm LANDLORDS LV CABLE TRAY
(LESS SIZE IS OTHERWISE NOTED)

mØ ELECTRICAL DUCT

VICES ENTERING APARTMENT
mØ BCWS
mØ LTHW F&R
NKLER (SIZE TBC BY SPECIALIST)
50mmØ ELECTRICAL DUCTS FOR SUPPLY & COMMS

VICES ENTERING APARTMENT
mØ BCWS
mØ LTHW F&R
NKLER (SIZE TBC BY SPECIALIST)
50mmØ ELECTRICAL DUCTS FOR SUPPLY & COMMS

VICES RISING FROM LEVEL BELOW TO SERVE DUPLEX APARTMENT
mØ BCWS
mØ LTHW F&R
NKLER (SIZE TBC BY SPECIALIST)
50mmØ ELECTRICAL DUCTS FOR SUPPLY & COMMS

. 50mmØ ELECTRIC

SIZE (mm)	INSULATION THICKNESS (mm)
	30 (50*)
	35 (50*)

INSULATION THICKNESS WHERE PIPEWORK IS AN OUTDOOR
INSTALLATION WHERE FREEZING MAY OCCUR

SIZE (mm)	INSULATION THICKNESS (mm)		
	20		
ATT LONDON			
IER NESTLE FACTORY, HAYES			
K B - MECHANICAL & ELECTRICAL			
BINED CORE SERVICES LAYOUT			
. 09 - B7/B9 & ROOF LEVEL - B1/B8			
Zone	Originator	Type	Package
Number		Status	Revision
B-OCSC-DR-51-109		A1	C02
Scale:1 : 100		@ A0 Drn by: M.T. Chkd by: C.K. Aprvd by: S.T.	

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Rev No.	Date	Revision Note	Drn by	Chkd by
C01	30.09.22	SUITABLE FOR CONSTRUCTION	M.T.	C.K.
C02	18.07.23	DRY RISER PIPE UPDATED	T.S.	C.K.

BARRATT
LONDON



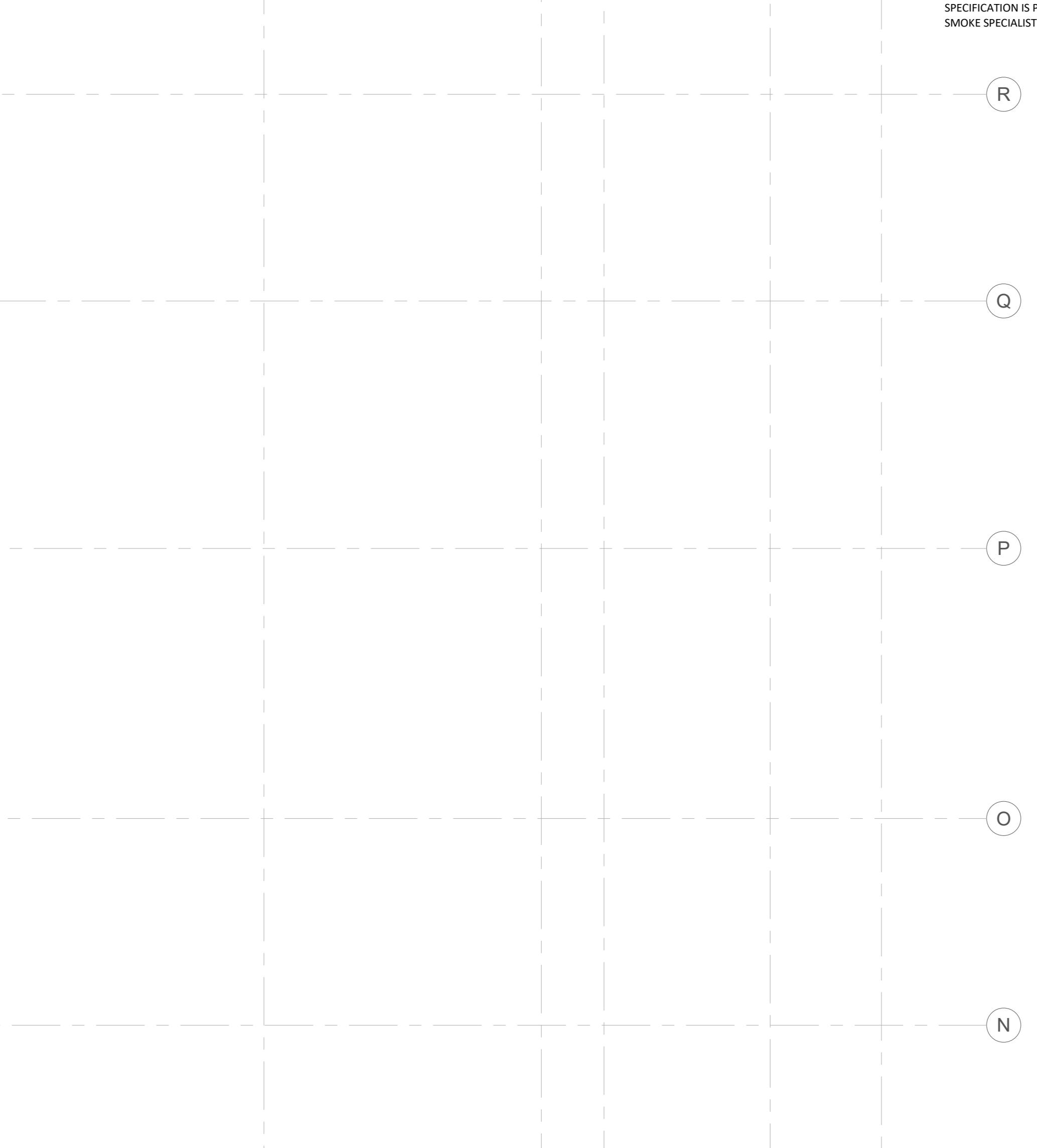
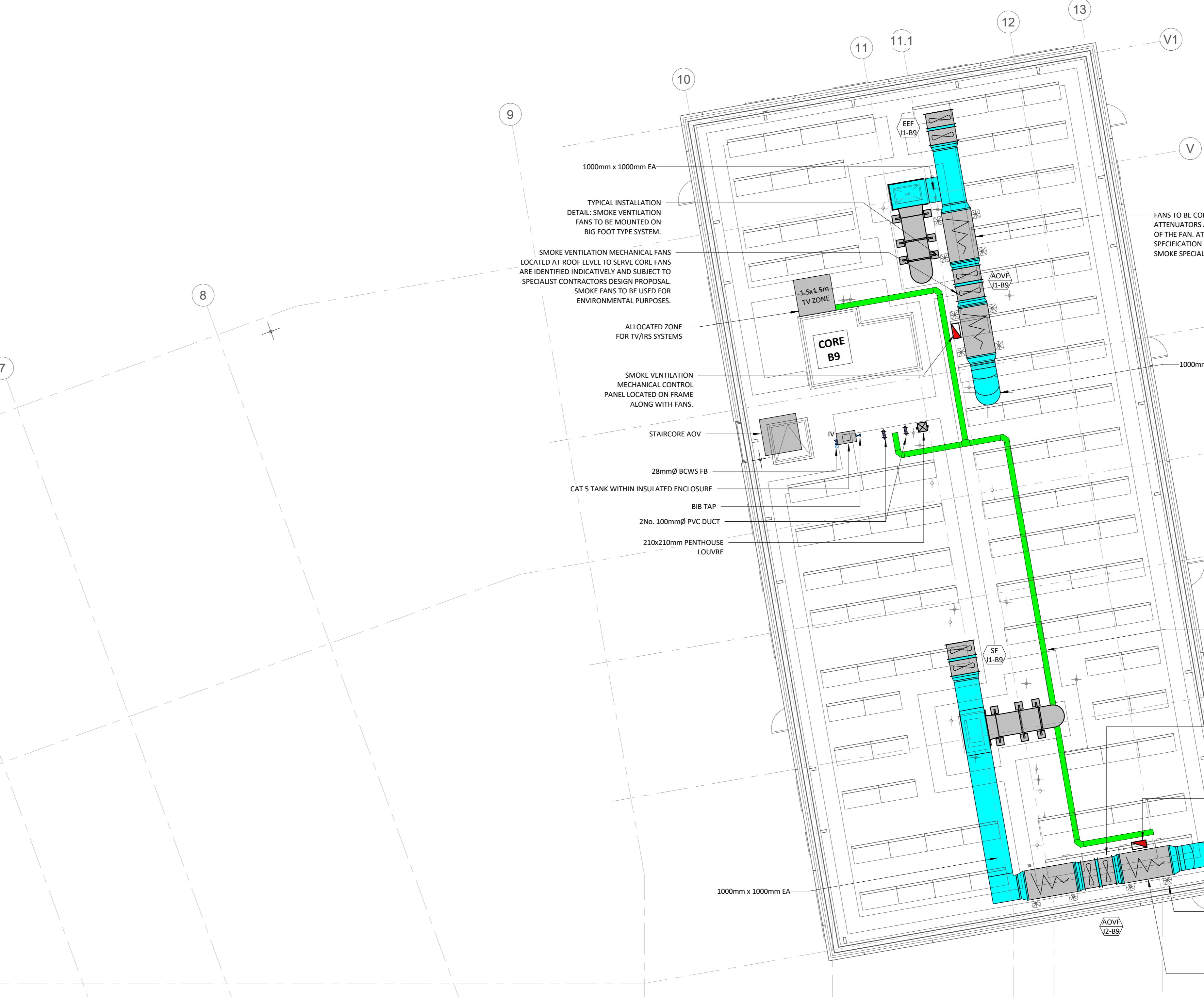
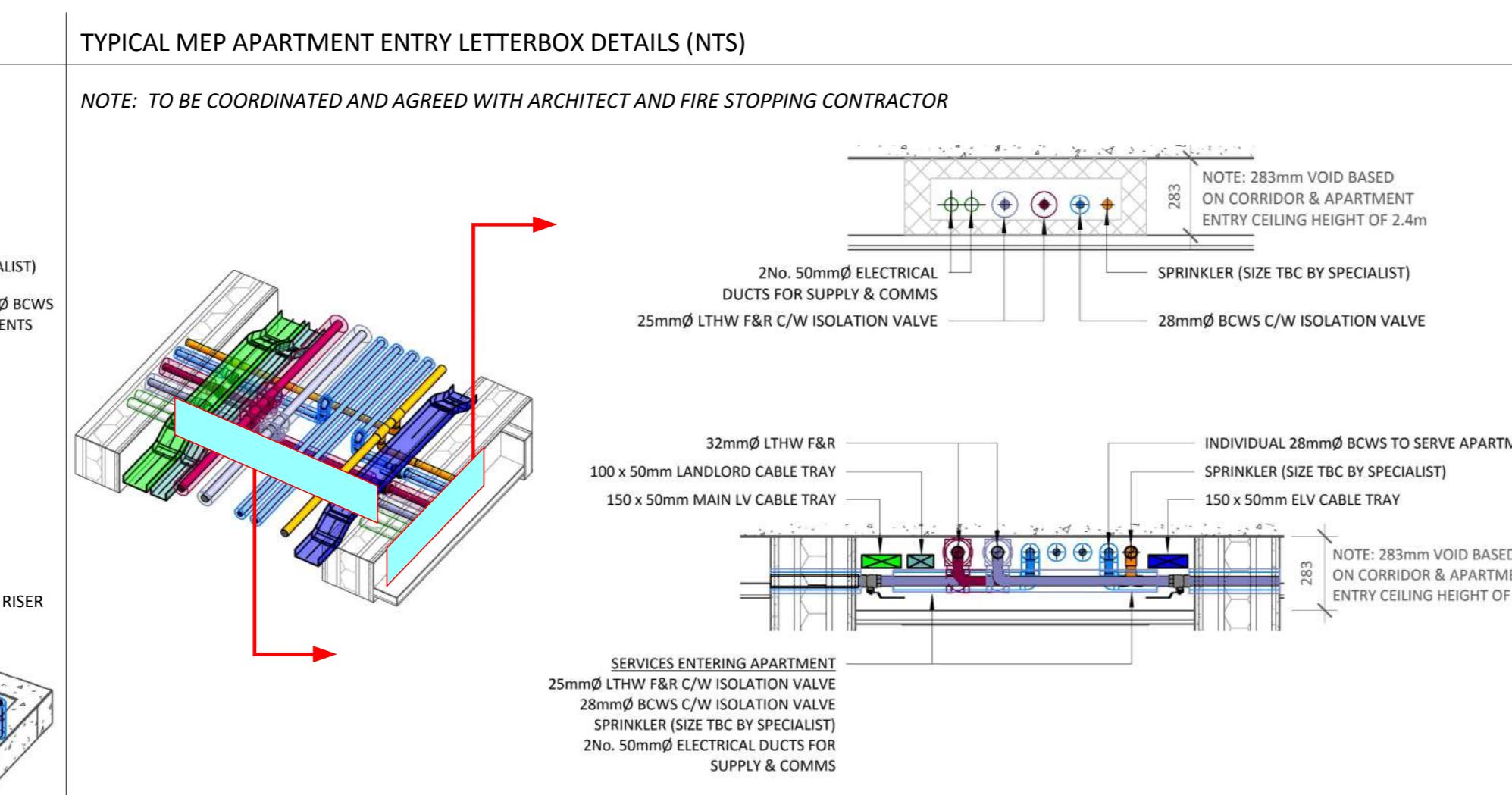
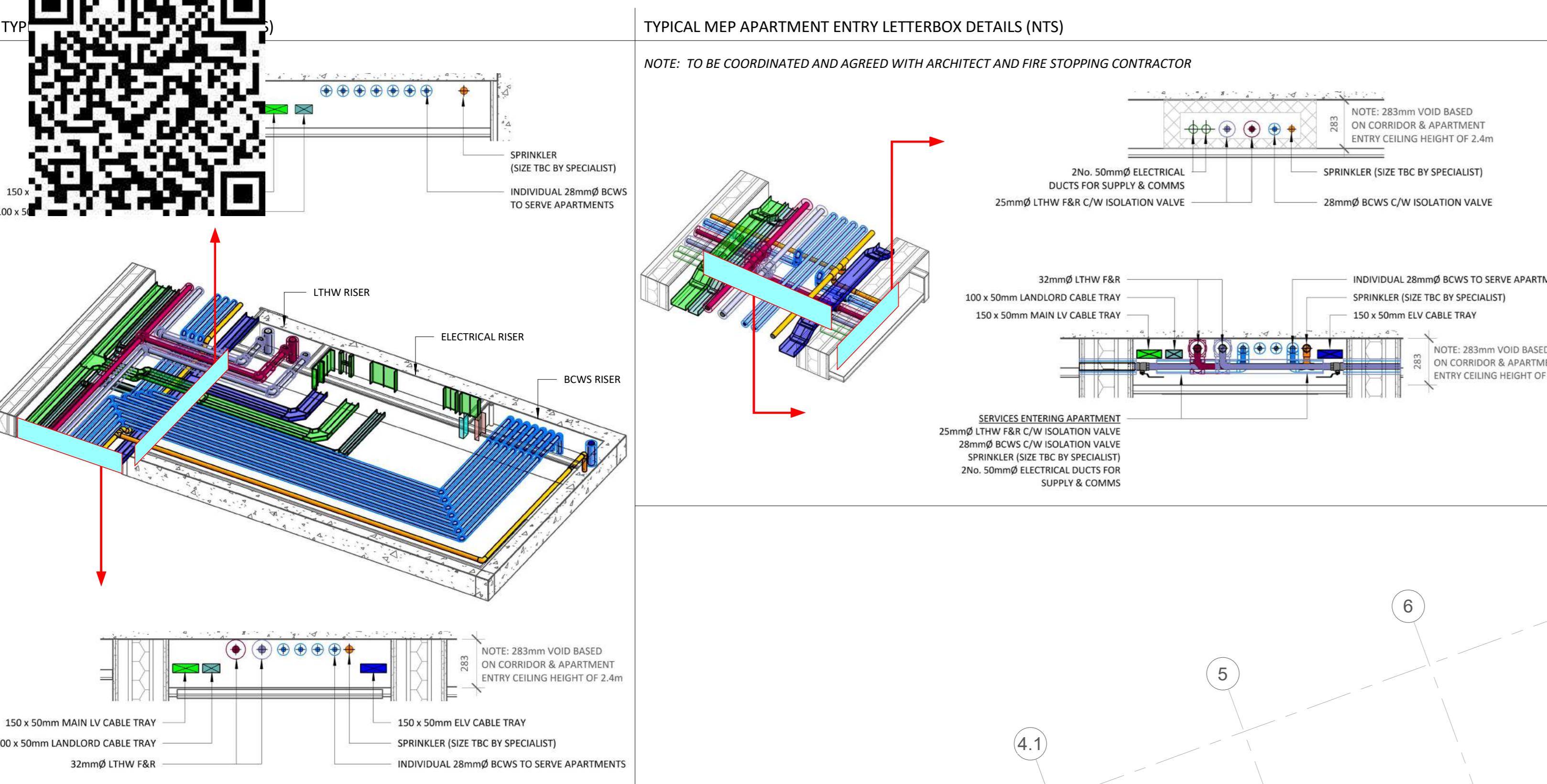
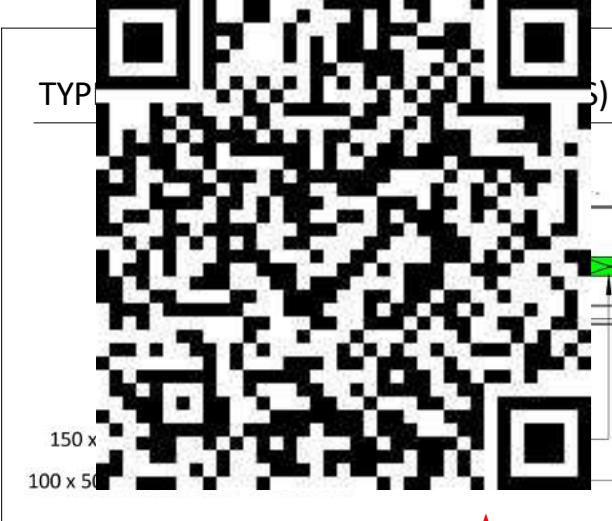
40 Bowling Green Lane,
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GENERAL NOTES
 FINAL LOCATION OF INDIVIDUAL DAY TO DAY VENTILATION FANS, GRILLES & ASSOCIATED EQUIPMENT TBC. LOCALISED DAY TO DAY FANS WILL BE LOCATED IN THE CEILING VOID OF EACH FLOOR LEVEL FOR ALL RESIDENTIAL COMMUNAL CORRIDORS. FINAL STRATEGY FOR MITIGATION OF OVERHEATING WITHIN COMMUNAL CORRIDORS TO BE CONFIRMED BY SPECIALIST

ABBREVIATIONS

BCWS	- BOOSTED COLD WATER SERVICE	LL	- LOW LEVEL
LTHW	- LOW TEMPERATURE HOT WATER	HL	- HIGH LEVEL
ELV	- EXTRA-LOW VOLTAGE	SD	- STEP DOWN
LV	- LOW VOLTAGE	SU	- STEP UP
BCWS C/W	- BOOSTED COLD WATER SERVICE C/W	SN	- STEP UP/STEP DOWN
FA	- FROM ABOVE	BD	- BOTTOM OF DUCT
TA	- TO ABOVE	BD **	- BOTTOM OF DUCT
FB	- FROM BELOW	CL	- CENTRE OF PIPE
TB	- TO BELOW	BOU	- BOTTOM OF UNIT
RTH	- RISE TO HIGH LEVEL	COO	- CENTRE OF DUCT
DTL	- DROP TO LOW LEVEL	BOT	- BOTTOM OF TRAY

WATER NOTES

- FOR SYMBOLS & ABBREVIATIONS SEE DETAIL SHEETS.
- ALL CONCEALED PIPEWORK TO BE INSULATED EXCEPT BRANCH RUNOUTS TO FITTINGS AT LOW LEVEL.
- THE CONTRACTOR SHALL INCLUDE FOR FINAL CONNECTIONS TO ALL SANITARY FITTINGS.
- STOP COCKS SHALL BE PROVIDED TO ISOLATE FITTINGS & OR GROUPS OF FITTINGS.
- PROVIDE MANUAL AIR VENTS AT ALL HIGH POINTS. PIPEWORK TO BE GRADED TO FALL. MINIMUM GRADIENT 1:300.
- PROVIDE DRAINS AT ALL LOW POINTS.
- INTUMESCENT FIRE BARRIER PUTTY TO BE FITTED BETWEEN PIPES & PIPE SLEEVES OR FIRE BARRIER PASSING THROUGH WALLS & OR FLOORS.
- ARCHITECTS DRAWINGS MUST BE REFERRED TO FOR EXACT POSITION OF ALL EQUIPMENT & SANITARY WARE.
- ALL HORIZONTAL & VERTICAL PIPEWORK TO BE CONCEALED IN PARTITION.
- PIPEWORK MAY BE INSTALLED IN CONTINUOUS INSULATED COPPER WITH BRACKETS AT 1200mm MAXIMUM SPACING.
- MECHANICAL SUITE TO ENSURE THAT SUITABLE PIV'S ARE INSTALLED ON ALL LEVELS IN ORDER TO OPERATE SUFFICIENTLY WITH THE REQUIRED TURN DOWN RATIO.

HEATING NOTES

- FOR SYMBOLS & ABBREVIATIONS SEE DETAIL SHEETS.
- THE CONTRACTOR SHALL INCLUDE FOR ALL NECESSARY OFFSETS TO AVOID OTHER SERVICES.
- ALL PIPEWORK TO BE INSULATED EXCEPT BRANCH RUNOUTS TO RADIATORS AT LOW LEVEL.
- PROVIDE DRAINS AT ALL LOW POINTS.
- PROVIDE DRAIN COCKS AT ALL HIGH POINTS.
- INTUMESCENT FIRE BARRIER PUTTY TO BE FITTED BETWEEN PIPES & PIPE SLEEVES ON ALL PIPEWORK PASSING THROUGH WALLS & OR FLOORS.
- FOR SCHEDULES OF EQUIPMENT SEE SPECIFICATION.
- THE COMPLETE INSTALLATION TO BE COORDINATED WITH ALL OTHER SERVICES.
- CONTRACTOR TO ALLOW AND PROVIDE FOR EXPANSION AND BELLows AS REQUIRED BY THE DESIGN/INSTALLATION THROUGHOUT.

ELECTRICAL NOTES

- THE CONTRACTOR SHALL ENSURE THAT THEY liaise WITH THE APPOINTED IDO TO ENSURE THAT THE DEMARcation OF RESPONSIBILITY IS CLARIFIED.
- THE CONTRACTOR SHALL ENSURE THAT THE IDO CONTAINMENT INSTALLED SHALL BE FOR THE INSTALLATION OF IDO CABLES ONLY. UNDER NO CIRCUMSTANCES WILL ANY OTHER CABLES BE INSTALLED ON THIS CONTAINMENT.
- THE CONTRACTOR SHALL ENSURE THAT THE IDO CABLES ARE SECURED TO METAL RIGID DUCT FROM APARTMENT ENTRANCE TO METAL LOCATION.
- CONTAINMENT TO BE INDEPENDENTLY BONDED BETWEEN EACH SECTION EITHER BY CONTINUITY BONDING OR MANUFACTURER COUPLING.
- FIRE RESISTANT CABLE SUPPORTS AND TIRES SHALL BE INSTALLED IN ACCORDANCE WITH BS7671.
- PRIMARY AND SECONDARY CABLE BUNDLING SHALL BE DISTRIBUTED ON INDIVIDUAL CABLES AND NOT WITHIN SEPARATE FIRE COMPARTMENTS. WHERE THEY ARE INSTALLED WITHIN THE SAME FIRE COMPARTMENT THEY SHALL BE SITUATED GREATER THAN 2m APARTMENT. WHERE THIS CANNOT BE ACHIEVED, THE CONTRACTOR SHALL INSTALL CABLING WITHIN APPROPRIATELY RATED DUCTS.
- ALL CABLE TRAY SHALL BE MEDIUM DUTY MFR GALVANISED STEEL UNLESS SPECIFICALLY DETAINED IN LAYOUTS.
- THE CONTRACTOR SHALL USE THE SELECTION OF THEIR SELECTED SPECIALIST SUB-CONTRACTORS DURING THE TENDER PROCESS TO ESTABLISH THEIR CONNECTION REQUIREMENTS. THE CONTRACTOR SHALL CROSS REFERENCE THIS AGAINST THE DESIGN INFORMATION AND ADVISE THE CLIENT OR THE DESIGN TEAM IF ANY PROTECTIVE DEVICES, CABLING, CONTAINMENT OR DISTRIBUTION BOARDS SHALL NEED TO BE INCREASED TO ENSURE A FULLY WORKING SYSTEM.

LEGEND

—	LTHW FLOW (32mm ² IN CORRIDOR / 25mm ² AT APARTMENT ENTRY)
—	LTHW RETURN (32mm ² IN CORRIDOR / 25mm ² AT APARTMENT ENTRY)
—	BCWS (28mm ² INDIVIDUAL PIPE TO SERVE EACH APARTMENT)
—	SPRINKLER (SIZE TBC BY SPECIALIST)
—	DRY RISER (125mm ²)
—	150 x 50mm LV CABLE TRAY (UNLESS SIZE IS OTHERWISE NOTED)
—	150 x 50mm ELV CABLE TRAY (UNLESS SIZE IS OTHERWISE NOTED)
—	100 x 50mm LANDLORDS LV CABLE TRAY (UNLESS SIZE IS OTHERWISE NOTED)
—	50mm ² ELECTRICAL DUCT
—	A SERVICES ENTERING APARTMENT 28mm ² BCWS 25mm ² LTHW F&R SPRINKLER (SIZE TBC BY SPECIALIST) 2No. 50mm ² ELECTRICAL DUCTS FOR SUPPLY & COMMS
—	B SERVICES ENTERING APARTMENT 28mm ² BCWS 32mm ² LTHW F&R SPRINKLER (SIZE TBC BY SPECIALIST) 2No. 50mm ² ELECTRICAL DUCTS FOR SUPPLY & COMMS
—	C SERVICES RISING FROM LEVEL BELOW TO SERVE DUPLEX APARTMENT 22mm ² BCWS 22mm ² LTHW 20mm ² LTHW F&R SPRINKLER (SIZE TBC BY SPECIALIST) 2No. 50mm ² ELECTRICAL DUCTS FOR SUPPLY & COMMS
—	D SERVICES RISING FROM LEVEL BELOW TO SERVE DUPLEX APARTMENT 22mm ² BCWS 22mm ² LTHW 20mm ² LTHW F&R SPRINKLER (SIZE TBC BY SPECIALIST) 1No. 50mm ² ELECTRICAL DUCTS FOR SUPPLY & COMMS

PIPEWORK INSULATION

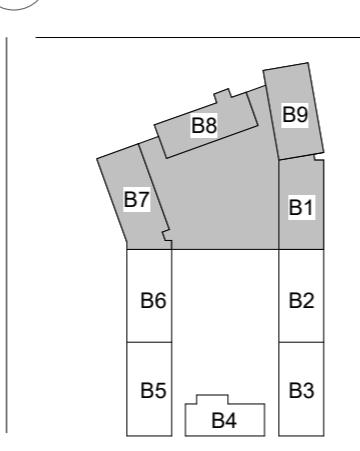
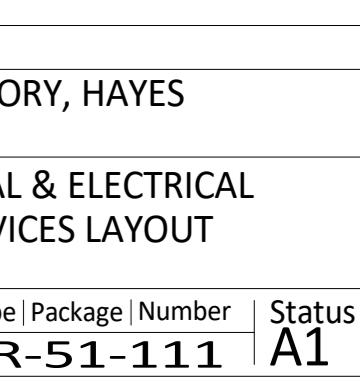
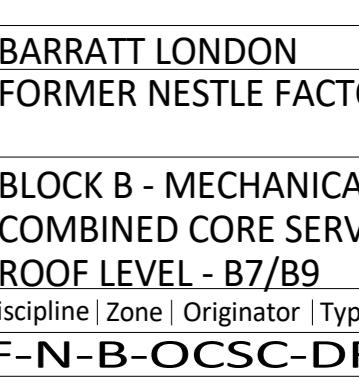
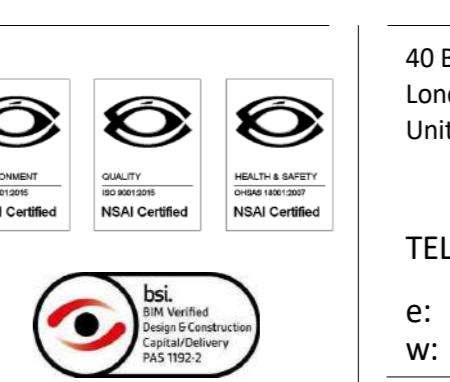
LTHW	PIPE SIZE (mm)	INSULATION THICKNESS (mm)
	25	30 (50 ⁺)
	32	35 (50 ⁺)

*INSULATION THICKNESS WHERE PIPEWORK IS AN OUTDOOR INSTALLATION WHERE FREEZING MAY OCCUR

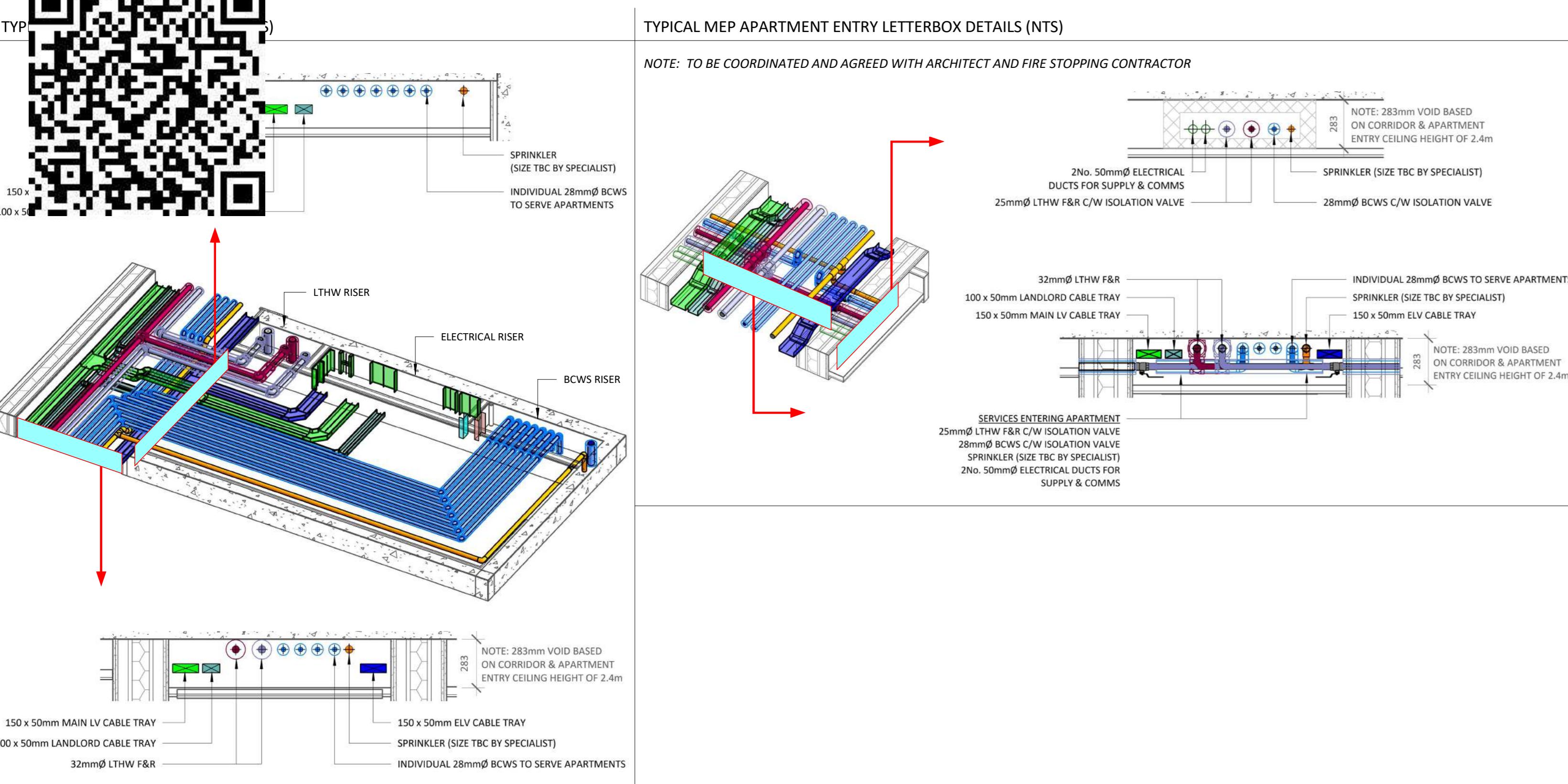
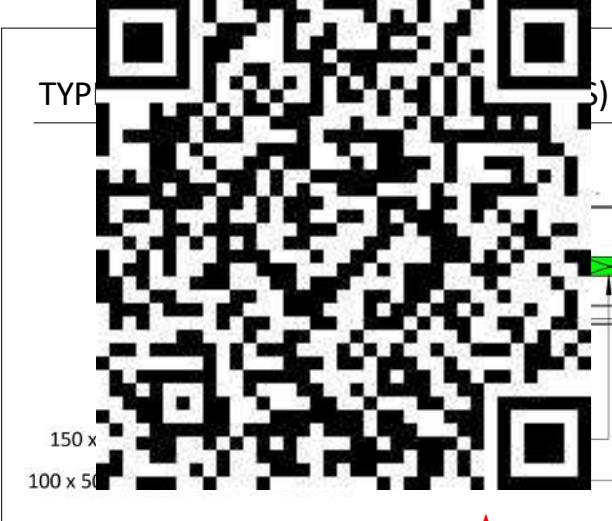
BCWS	PIPE SIZE (mm)	INSULATION THICKNESS (mm)
	28	20

Client: BARRATT LONDON
 Project: FORMER NESTLE FACTORY, HAYES
 Title: BLOCK B - MECHANICAL & ELECTRICAL COMBINED CORE SERVICES LAYOUT
 ROOF LEVEL - B7/89
 Code: Discipline Zone: Originator: Type: Package: Number: Status: Revision
 FNF-N-B-OCSC-DR-51-111 A1 C01
 Date: 03.08.21 Scale: 1:100 @ A0 Drn by: M.T. Chkd by: C.K. Aprov'd by: S.T.

Rev No. Date Revision Note Drn by Chkd by
 C01 30.09.22 SUITABLE FOR CONSTRUCTION M.T. C.K.
 BARRATT LONDON



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FA	- FROM ABOVE	BO	- BOTTOM OF
TA	- TO ABOVE	BD	- BOTTOM OF DUCT
FB	- FROM BELOW	CL	- CENTRE OF PIPE
TB	- TO BELOW	BU	- BOTTOM OF UNIT
RTH	- RISE TO HIGH LEVEL	CD	- CENTRE OF DUCT
DTL	- DROP TO LOW LEVEL	BT	- BOTTOM OF TRAY

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- THE CONTRACTOR SHALL ENSURE THAT THE IDDO CONTAINMENT INSTALLED SHALL BE FOR THE INSTALLATION OF IDDO CABLES ONLY. UNDER NO CIRCUMSTANCES WILL ANY OTHER CABLES BE INSTALLED ON THIS CONTAINMENT.
- THE CONTRACTOR SHALL ENSURE THAT THE IDDO CABLES ARE BONDED FROM APARTMENT ENTRANCE TO FLOOR TO METAL LOCATION.
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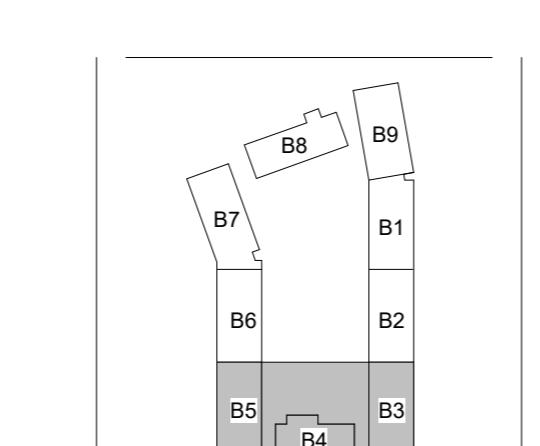
LEGEND

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PIPEWORK INSULATION

PIPEWORK	PIPE SIZE (mm)	INSULATION THICKNESS (mm)
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	32	35 (50)*
		*INSULATION THICKNESS WHERE PIPEWORK IS AN OUTDOOR INSTALLATION WHERE FREEZING MAY OCCUR
BCWS	PIPE SIZE (mm)	INSULATION THICKNESS (mm)
	28	20

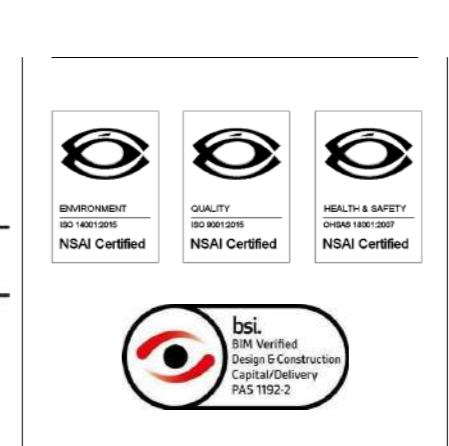
Client:	BARRATT LONDON
Project:	FORMER NESTLE FACTORY, HAYES
Title:	BLOCK B - MECHANICAL, COMBINED CORE SERVICES LAYOUT
LEVEL 07 - B3/B5 & ROOF LEVEL - B4	
Code / Discipline:	Zone 1
Originator:	Type: Package Number: Status: Revision:
E:	ocsc@ocsc.co.uk
W:	www.ocsc.co.uk
Dublin London Belfast Galway Cork Birmingham	Date: 03.08.21 Scale: 1:100 @ A0 Drn by: M.T. Chkd by: C.K. Aprov'd by: S.D.



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C02	18.07.23	DRY RISER PIPE UPDATED	T.S.	C.K.

BARRATT LONDON



OCSC
O'Connor Sutton Cronin
Consulting Engineers

APPENDIX B: PHOTOGRAPHS

Figure 1 Plant of Roof Block B2



Figure 2 Plant on Roof Block B5



Figure 3 Plant on Roof Block B6



Figure 4 Plant on Roof Block B7



Figure 5 Plant on Roof Block B8



Figure 6 Plant on Roof Block B9

