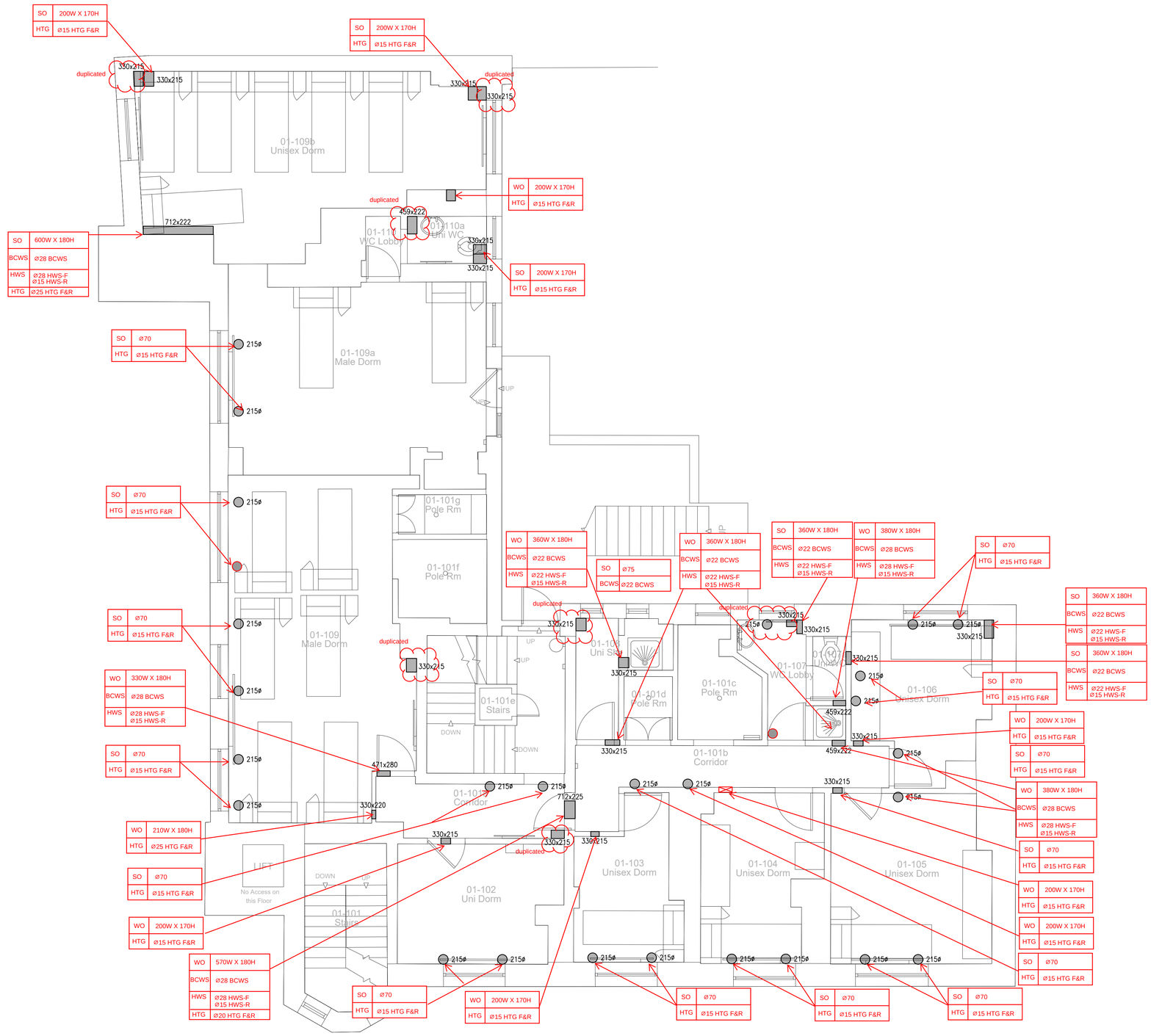
DO NOT SCALE



SO	200W X 170H
HTG	Ø15 HTG F&R

SO	200W X 170H
HTG	Ø15 HTG F&R

WO	200W X 170H
HTG	Ø15 HTG F&R

SO	200W X 170H
HTG	Ø15 HTG F&R

SO	600W X 180H
BCWS	Ø28 BCWS
HWS	Ø28 HWS-F Ø15 HWS-R
HTG	Ø25 HTG F&R

SO	Ø70
HTG	Ø15 HTG F&R

SO	Ø70
HTG	Ø15 HTG F&R

SO	Ø70
HTG	Ø15 HTG F&R

SO	Ø70
HTG	Ø15 HTG F&R

WO	330W X 180H
BCWS	Ø28 BCWS
HWS	Ø28 HWS-F Ø15 HWS-R

SO	Ø70
HTG	Ø15 HTG F&R

WO	210W X 180H
HTG	Ø25 HTG F&R

SO	Ø70
HTG	Ø15 HTG F&R

WO	200W X 170H
HTG	Ø15 HTG F&R

WO	570W X 180H
BCWS	Ø28 BCWS
HWS	Ø28 HWS-F Ø15 HWS-R
HTG	Ø20 HTG F&R

SO	Ø70
HTG	Ø15 HTG F&R

WO	200W X 170H
HTG	Ø15 HTG F&R

WO	360W X 180H
BCWS	Ø22 BCWS
HWS	Ø22 HWS-F Ø15 HWS-R

SO	Ø75
BCWS	Ø22 BCWS

WO	360W X 180H
BCWS	Ø22 BCWS
HWS	Ø22 HWS-F Ø15 HWS-R

SO	360W X 180H
BCWS	Ø22 BCWS
HWS	Ø22 HWS-F Ø15 HWS-R

WO	380W X 180H
BCWS	Ø28 BCWS
HWS	Ø28 HWS-F Ø15 HWS-R

SO	Ø70
HTG	Ø15 HTG F&R

SO	360W X 180H
BCWS	Ø22 BCWS
HWS	Ø22 HWS-F Ø15 HWS-R

SO	360W X 180H
BCWS	Ø22 BCWS
HWS	Ø22 HWS-F Ø15 HWS-R

SO	Ø70
HTG	Ø15 HTG F&R

WO	200W X 170H
HTG	Ø15 HTG F&R

SO	Ø70
HTG	Ø15 HTG F&R

WO	380W X 180H
BCWS	Ø28 BCWS
HWS	Ø28 HWS-F Ø15 HWS-R

SO	Ø70
HTG	Ø15 HTG F&R

WO	200W X 170H
HTG	Ø15 HTG F&R

WO	200W X 170H
HTG	Ø15 HTG F&R

SO	Ø70
HTG	Ø15 HTG F&R

1. CONTRACTOR SHALL UTILIZE EXISTING PENETRATIONS.

2.IN GENERAL, WALL PENETRATIONS SHALL BE 100mm BELOW CEILING SLAB.

3. ALL DIMENSIONS SHOWN IN mm.

SO - SLAB OPENING
WO - WALL OPENING

RECTANGULAR PENETRATION

CIRCULAR PENETRATION

ABBREVIATIONS

HTG	HEATING
HWS-F	HOT WATER SERVICES FLOW
HWS-R	HOT WATER SERVICES RETURN
BCWS	BOOSTED COLD WATER SERVICES
CAT 5 BCWS	CATEGORY 5 BOOSTED COLD WATER SERVICES
ASHP	AIR SOURCE HEAT PUMP
F	FLOW
R	RETURN
EL	ELECTRIC CABLE TRAY
L/L	LOW LEVEL

ALL DIMENSIONS, LEVELS AND CLEARANCES TO BE CHECKED ON SITE PRIOR TO WORKS COMMENCING

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NOTES

Rev	Date	By	Chk	Apr	Comment
P01	15.05.23	DJ	AW	AM	Preliminary Issue

BRINGING IDEAS TO LIFE

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Client:

LFB
LONDON FIRE BRIGADE

Project Title:

Euston Fire Station

Drawing Title:

First Floor
Mechanical Services
Proposed Penetration Layout

Status:

PRELIMINARY ISSUE

Drawn By:	Designed By:	Checked By:	Approved By
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