

ASSISTED VENTILATION
SCHEMATICS

KITCHEN VENTILATION
SUPPLY AND EXTRACT DUCTS TO BE PROVIDED FOR FUTURE FIT
OUT OF RESTAURANT KITCHEN.

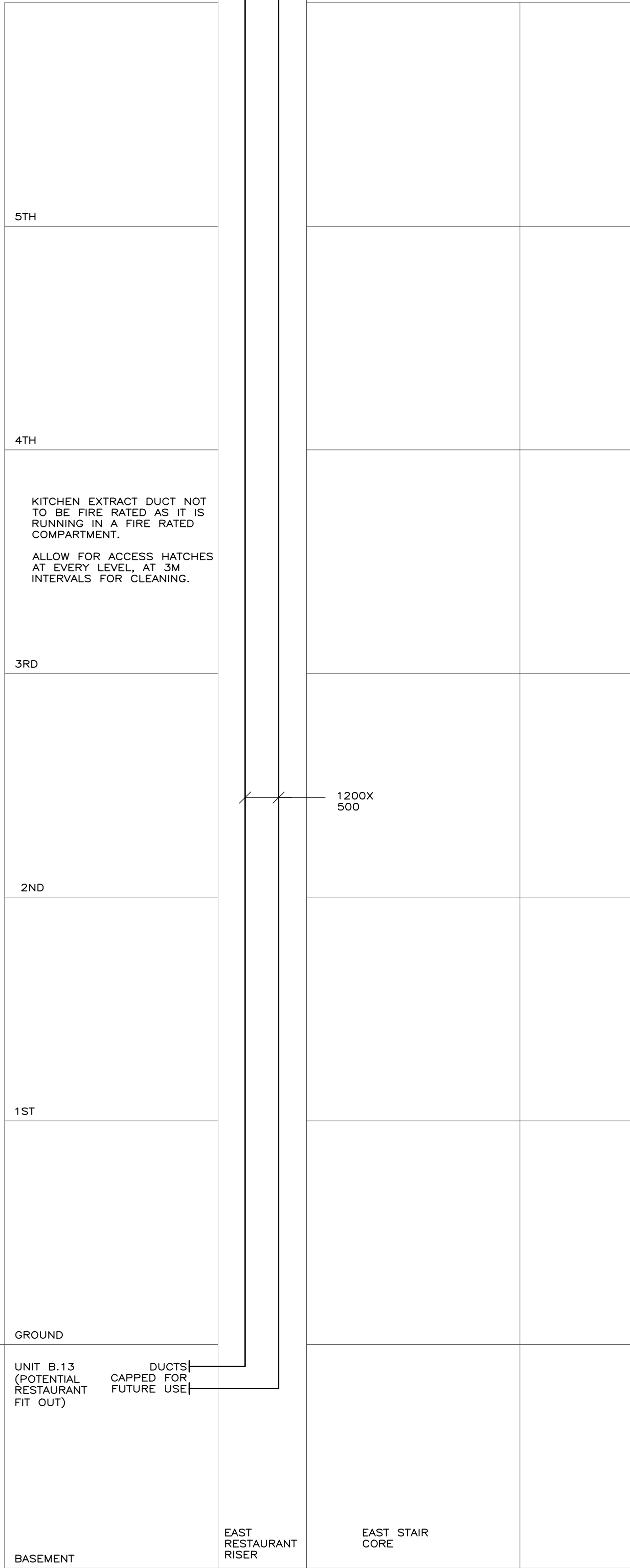
TYPICAL DESIGN GUIDANCE (DW172):
-KITCHEN VENTILATION RATE 40-60ACH
-SUPPLY VELOCITY 6-8m/s
-EXTRACT VELOCITY 6-9m/s

ACHIEVABLE FLOWRATES FOR 1200x500mm DUCTS:
-SUPPLY 3.6-4.8m³/s
-EXTRACT 3.6-5.4m³/s

POTENTIAL KITCHEN AREA 130-195m² (@2.5m FLOOR TO
CEILING)

DUCTS FOR RESTAURANT VENTILATION.
DUCTS TO BE WATERPROOFED AROUND BWIC OPENING AS DW
144.
BOTH DUCTS TO BE FITTED WITH A REMOVABLE 90° RADIUS
BEND TOWARDS PLANT SCREEN. FINISH BENDS IN LOUVRES
AS GILBERTS WG-75, 1200x500mm.
TOP OF DUCTS TO FINISH NO MORE THAN 1 METRE ABOVE
ROOF LEVEL.
BEND TO BE REMOVABLE IN THE FUTURE WITHOUT NEEDING
TO REMOVE OR DAMAGE VERTICAL DUCT IN RISER NOR
DISTURB WATERPROOFING DETAIL WHERE DUCTS EXIT ROOF.

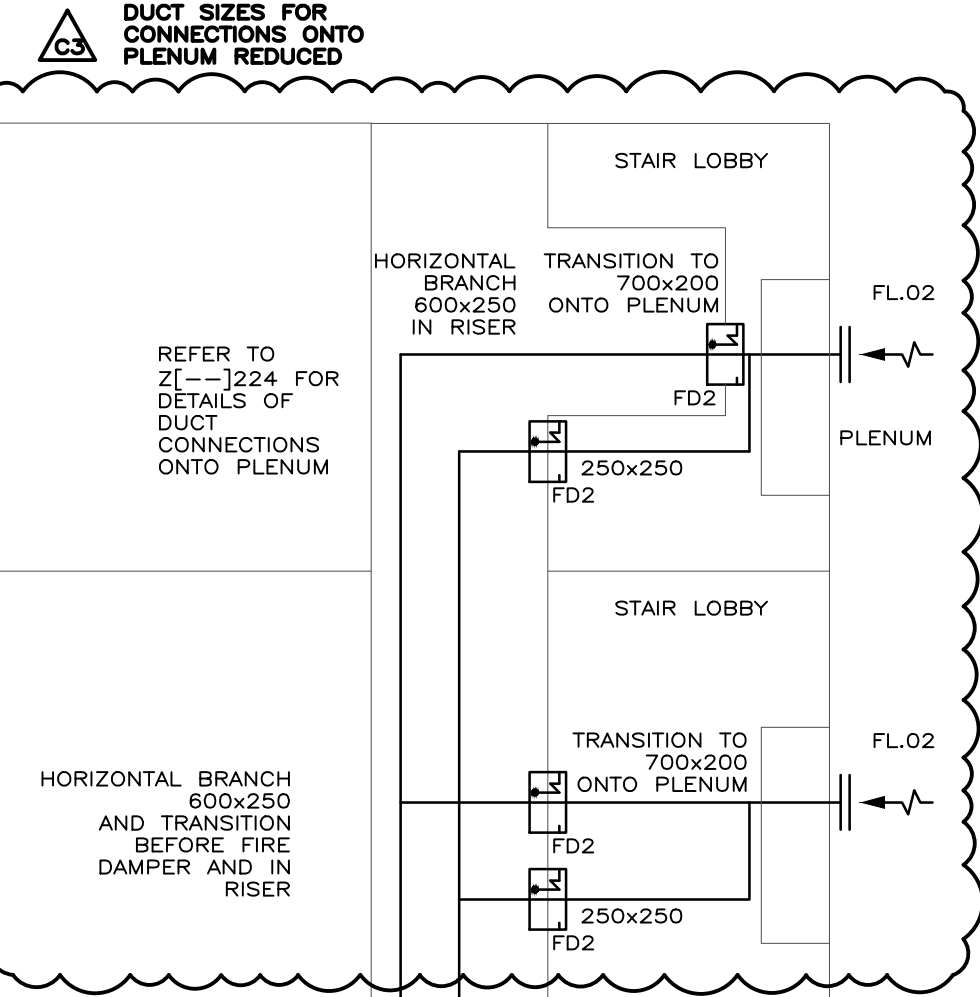
WATERPROOF DUCTS AS THEY
EXIT THE TOP OF THE RISER.



TOILET VENTILATION
SUPPLY AND EXTRACT DUCTS TO BE PROVIDED FOR FUTURE FIT
OUT OF RESTAURANT TOILETS.

TYPICAL DESIGN GUIDANCE:
-WC VENTILATION RATE 10ACH
-BRANCH DUCT VELOCITY 4m/s

ACHIEVABLE FLOWRATE FOR 300x200mm DUCTS: 0.24m³/s
POTENTIAL TOILET AREA: 35m² (@2.5m FLOOR TO CEILING)

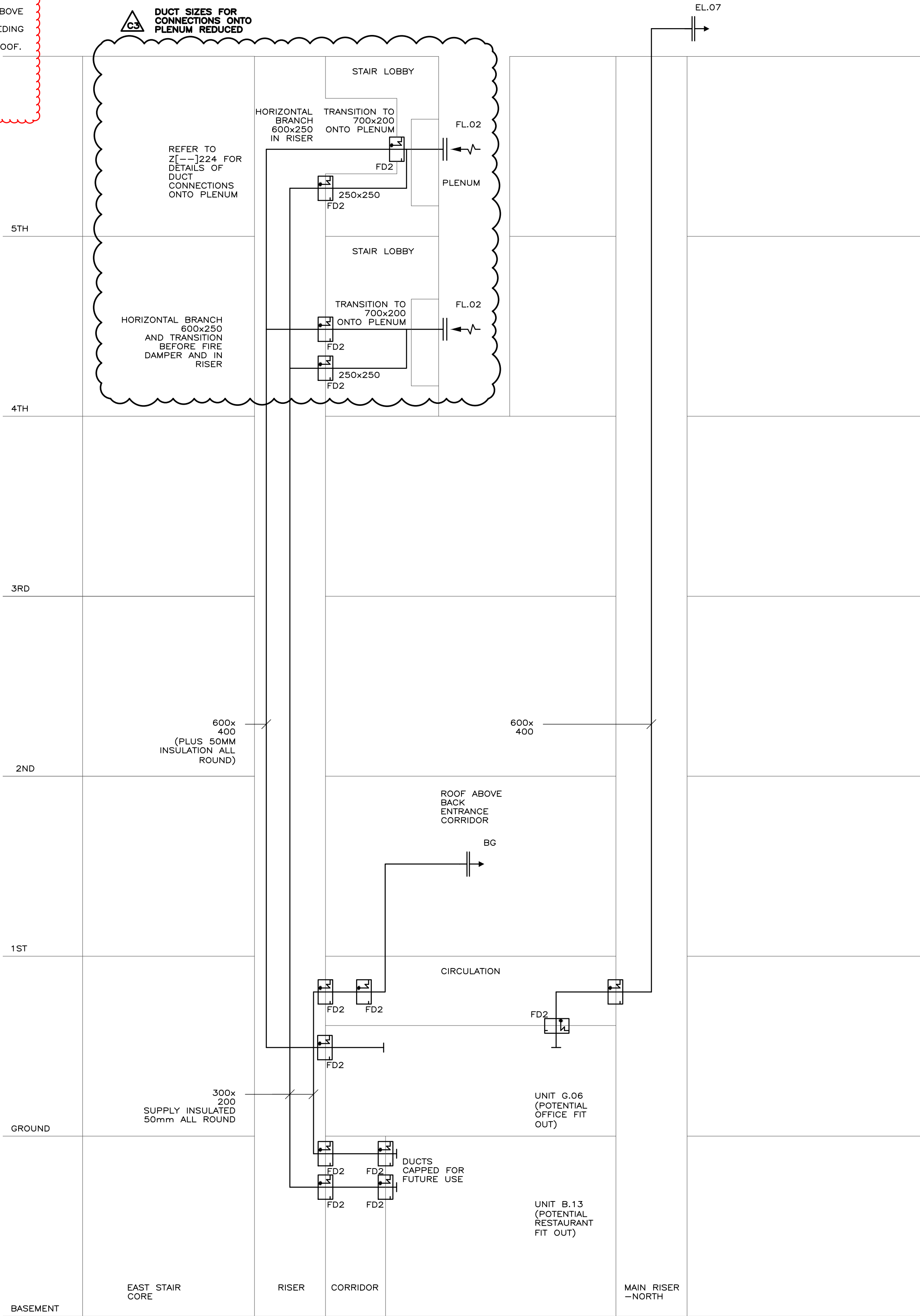


OFFICE VENTILATION
SUPPLY AND EXTRACT DUCTS TO BE PROVIDED FOR FUTURE FIT
OUT OF OFFICES ON THE GROUND FLOOR AND BASEMENT.

MAXIMUM PERFORMANCE FOR 600x400mm DUCTS:
- FLOWRATE: 1.2m³/s
- VELOCITY: 5.5 m/s

ASSUMPTIONS:
-2l/s/m² OR 10l/s/PERSON
-BRANCH DUCT VELOCITY 4m/s

POTENTIAL OFFICE AREA SERVED: 600m² OR 120 PEOPLE (IN
ADDITION TO A PROPORTION OF GROUND FLOOR AREA BEING
NATURALLY VENTILATED).



NOTES:

- DO NOT SCALE
- REFER TO ALL MAX FORDHAM DRAWINGS, SCHEDULES AND SPECIFICATIONS. REFER TO SCHEDULES U[1-1501-4 FOR DETAILED SPECIFICATION OF EQUIPMENT. REFER TO LAYOUTS U[1-1101-171 FOR ROUTING OF DUCTWORK.

LEGEND:

SG SUPPLY DIFFUSER/GRILLE

EG EXTRACT DIFFUSER/GRILLE

FRESH AIR LOUVRE/GRILLE

EXHAUST LOUVRE/GRILLE

BG WIRE BIRD GUARD

ATTENUATOR

BALANCING DAMPER

FIRE DAMPER

COOLER BATTERY

HEATER BATTERY

FAN

LAGGING/LINING OF DUCTS (REFER TO SCHEDULE U[1-1503 FOR DETAILS)

VOL FLOW I/s PRESSURE DROP Pa/m

DUCT SIZE mm x mm AIR VELOCITY m/s

C3	29/01/16	CONSTRUCTION ISSUE	TC
C2	23/12/15	CONSTRUCTION ISSUE	TC
C1	25/06/15	CONSTRUCTION ISSUE	CB
T1	18/08/14	TENDER	CB
rev	date	description	eng

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**VENTILATION SCHEMATICS
FUTURE FIT OUT VENTILATION**

job no dwg no rev
J4723 U[1-]205 / C3