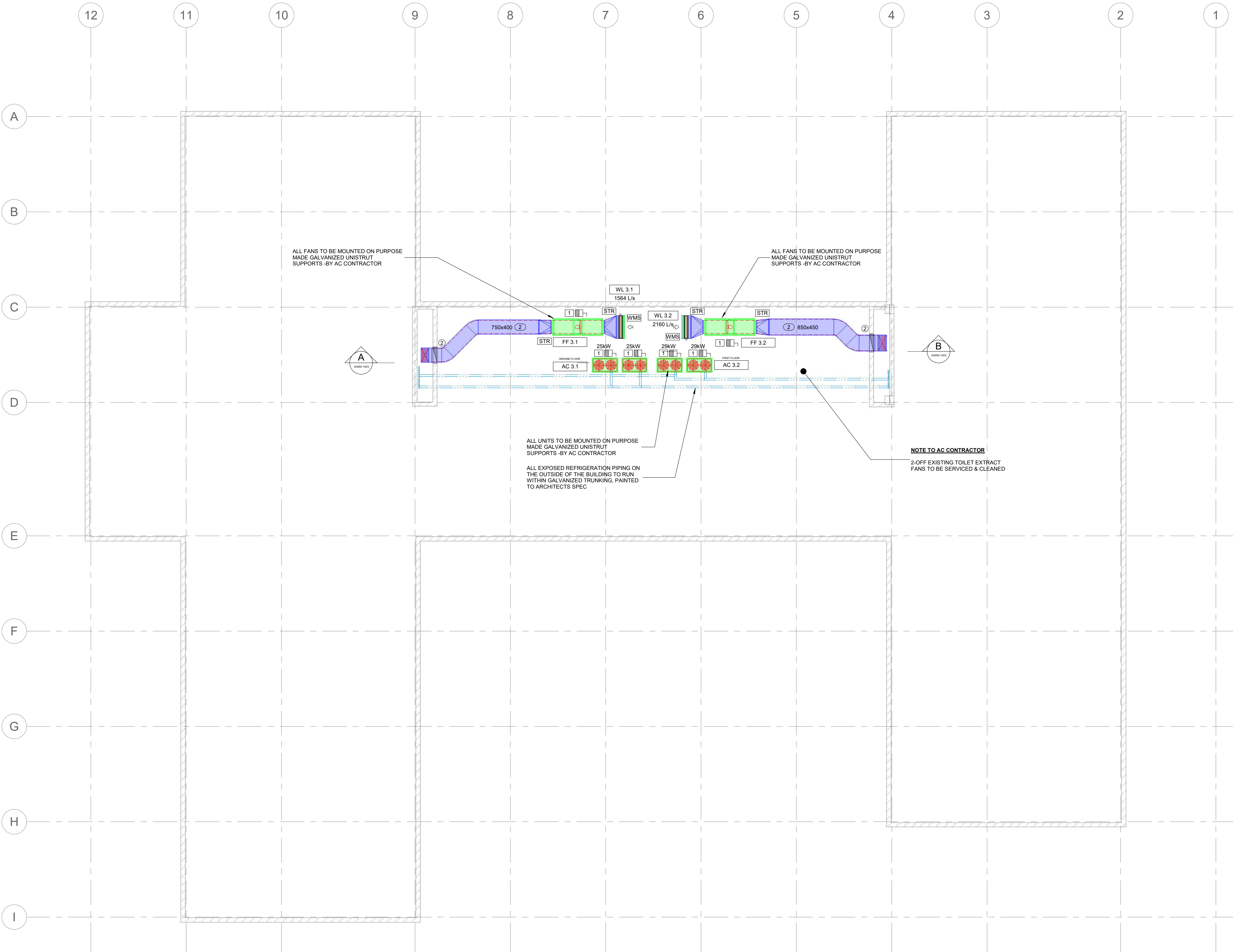




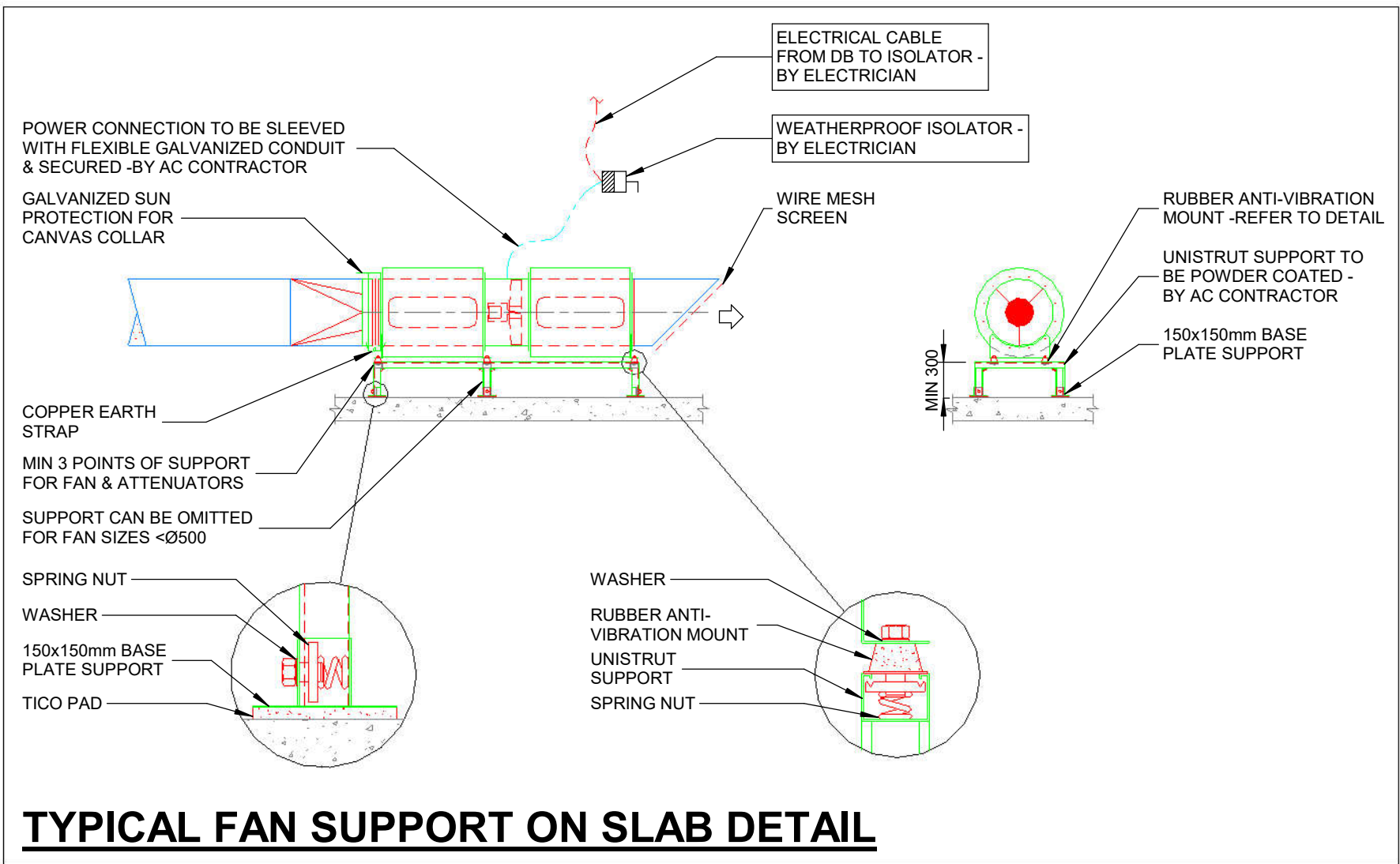
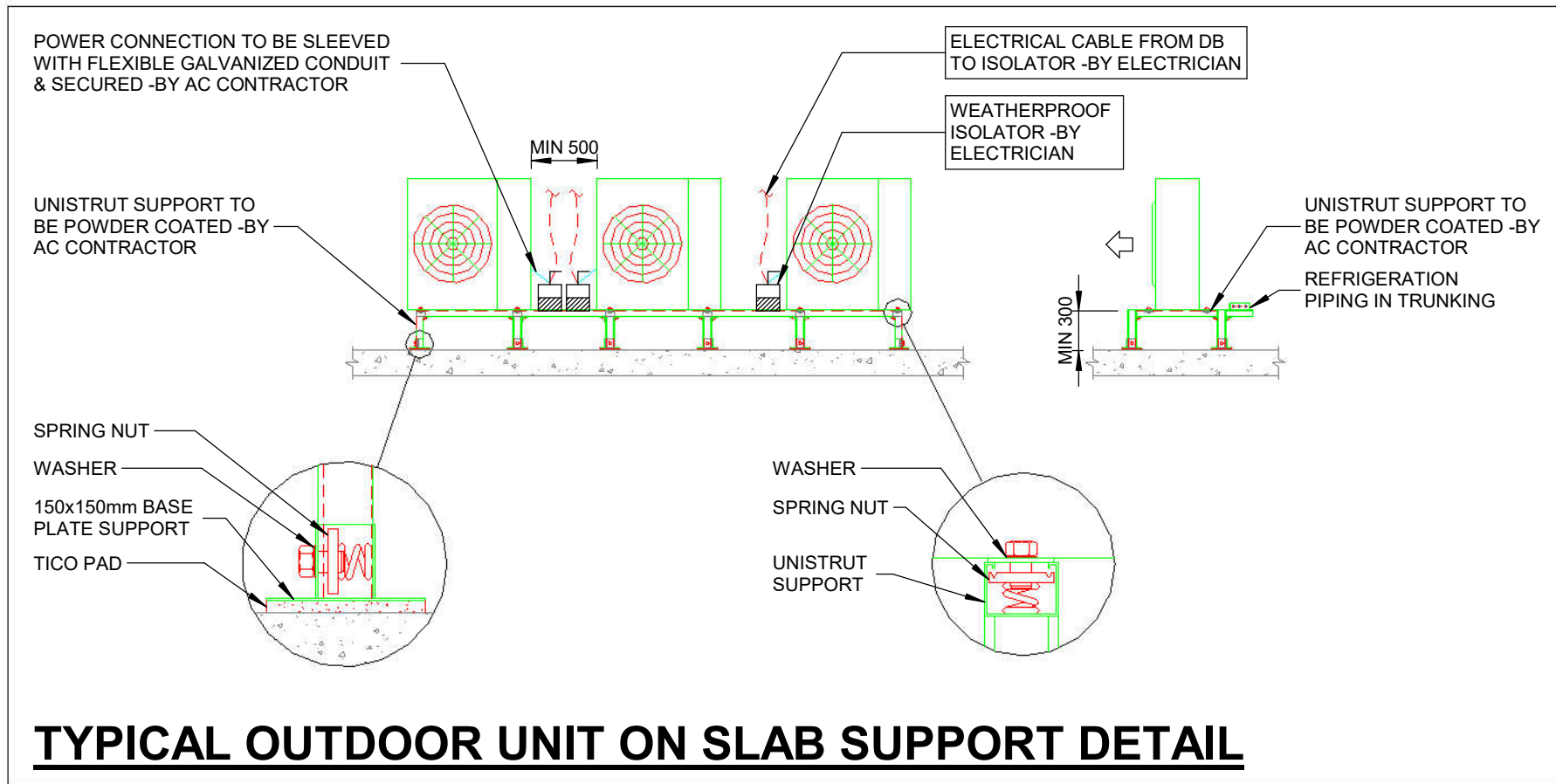
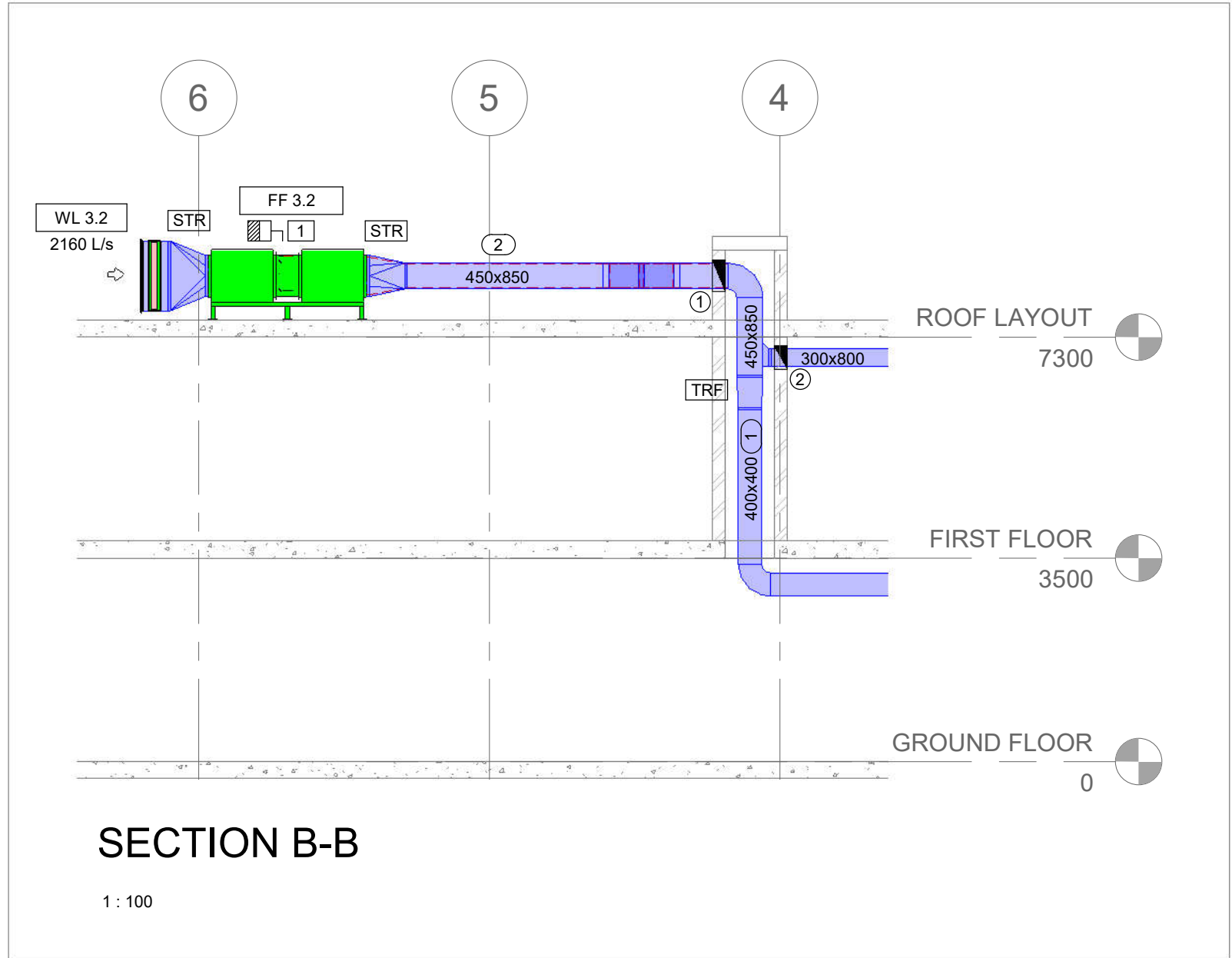
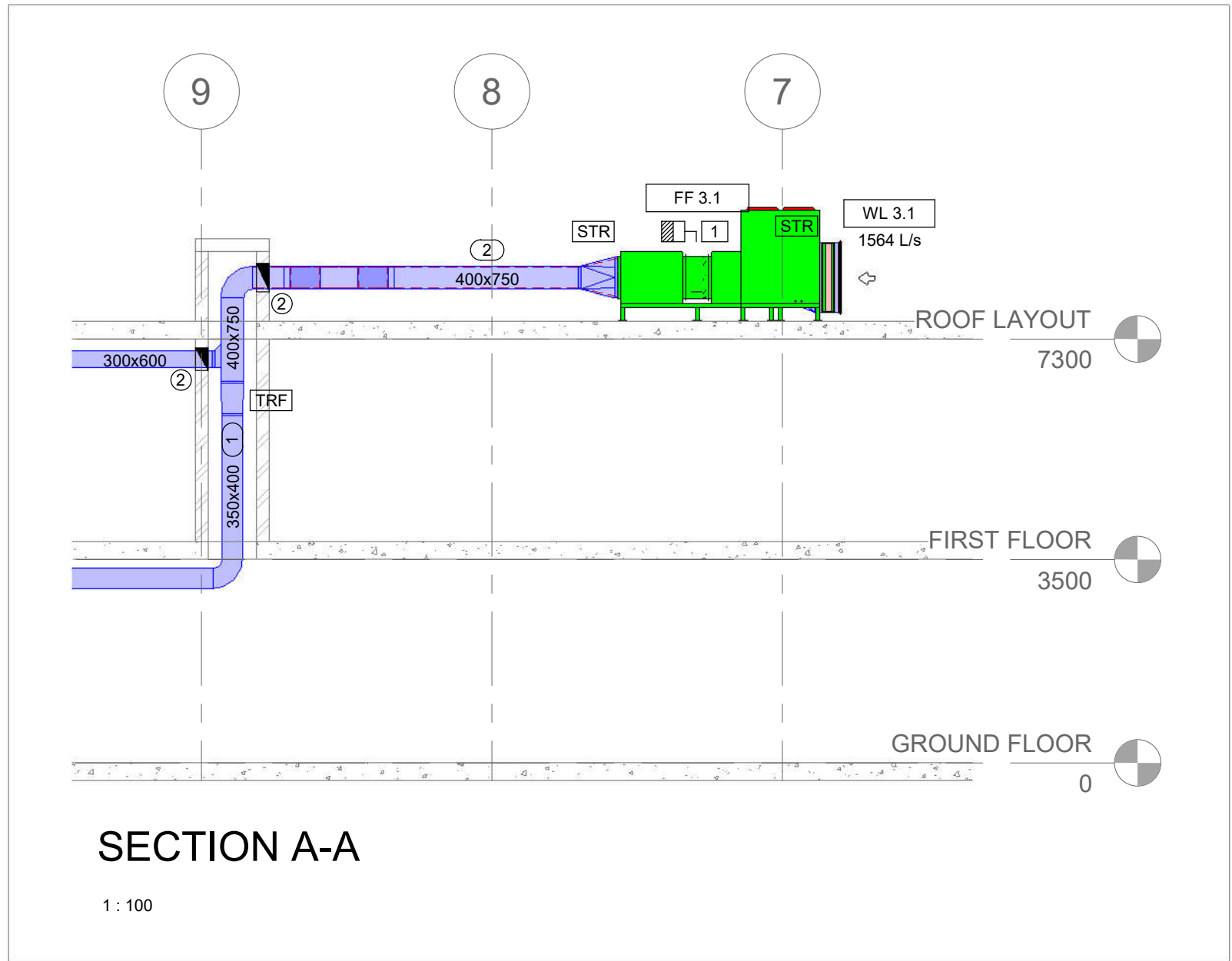
ROOF LAYOUT
1 : 100

NOTES:
SUB-CONTRACTOR TO BE RESPONSIBLE FOR CHECKING ALL DIMENSIONS & COORDINATION BEFORE FABRICATION. THIS DRAWING TO BE READ IN CONJUNCTION WITH QUALITY SPECS
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ALL SPIGOTS TO BE INSULATED
BACKGROUND DRAWING INFORMATION:

Dwg No	Original	Description	Rev	Date Received

1003 AC UNITS				
Mark	Description	Total Cooling	Total Heating	Power Requirements
AC 3.1	VRF OUTDOOR UNIT - GROUND FLOOR	122 kW	HEAT RECOVERY	400V-3PH-50Hz-50kW
AC 3.2	VRF OUTDOOR UNIT - FIRST FLOOR	144 kW	HEAT RECOVERY	400V-3PH-50Hz-50kW

1003 FANS							
Mark	Count	Description	Air Flow	Fan Speed (RPM)	Static Pressure	Power Requirements	Control
FF 3.1	1	Ø710 AXIAL FLOW FAN c/w 2-OFF 1.5D SOUND ATTENUATORS c/w VSD	1564 L/s	1440	300.0 Pa	400V-3PH-50Hz-1kW	24HR TDAY TIMER c/w BATTERY BACKUP - BY AC CONTRACTOR
FF 3.2	1	Ø710 AXIAL FLOW FAN c/w 2-OFF 1.5D SOUND ATTENUATORS c/w VSD	2160 L/s	1440	300.0 Pa	400V-3PH-50Hz-1.2kW	24HR TDAY TIMER c/w BATTERY BACKUP - BY AC CONTRACTOR



KEY		
SUPPLY AIR DUCTING	CHILLED WATER PIPING RETURN	
RETURN AIR DUCTING	CHILLED WATER PIPING SUPPLY	
FRESH AIR DUCTING	REFRIGERATION PIPING	
EXTRACT AIR DUCTING	CONDENSATE DRAIN PIPING	
	CONTROL WIRING	

LEGEND	
CLEAR OPENING THROUGH WALL WITH 20mm HARDWOOD FRAME - BY MAIN CONTRACTOR	
CLEAR OPENING THROUGH WALL TO BE 100mm LARGER THAN DUCT - BY MAIN CONTRACTOR	
CLEAR OPENING THROUGH SLAB TO BE 100mm LARGER THAN DUCT TO STRUCTURAL ENGINEERS DETAIL - BY MAIN CONTRACTOR	
INDICATED DB BOARD - BY AC CONTRACTOR	
INDICATED DB BOARD TO ELECTRICAL ENGINEERS DETAIL - BY ELECTRICAL CONTRACTOR	
CEILING ACCESS PANEL TO ARCHITECTS DETAIL - BY MAIN CONTRACTOR	

BY MAIN CONTRACTOR	
SPRING ANTI-VIBRATION MOUNTINGS	
SPRING HANGER RODS	
WIRE MESH SCREEN	
OPPOSED BLADE DAMPER	
EQUAL DUCT TRANSFORMATION	
DUCT TRANSFORMATION TO BE FLAT ON TOP	
DUCT TRANSFORMATION TO FLAT ON BOTTOM	
SQUARE TO ROUND TRANSFORMATION	
NON-RETURN DAMPER	
SET DOWN DUCT	
WIRE MESH CONTROLLER ATTACHED TO THE WALL WITH BRACKET	
FIRE DAMPER	

BY ELECTRICAL CONTRACTOR	
INFRARED CONTROLLER ATTACHED TO THE WALL WITH BRACKET	
SUPPORT AC EQUIPMENT WITH HANGER RODS & HARD RUBBER WASHER	
BALANCING DAMPER	
TICO AND SIMILAR APPROVED	
SET UP DUCTS	
SET DOWN DUCT	
THERMOSTAT	
1 PHASE ISOLATOR	
3 PHASE ISOLATOR	

BY A/C CONTRACTOR	
FRAME INSIDE OF CLEAR OPENINGS WITH TREATED HARD WOOD (NOT SITE SCRAP)	
CLEAR OPENING THROUGH SLAB & WALL TO BE 100mm LARGER THAN DUCTING	
OPENINGS IN DOOR TO BE CUT BY BUILDER & A/C CONTRACTOR TO FIT DOOR GRILLE	
WATER SUPPLY c/w SHUT-OFF VALVE	
DRAIN POINT PROVIDED - BY PLUMBING CONTRACTOR	
UNDER CUT DOOR 40mm - BY MAIN CONTRACTOR	

BY ELECTRICAL CONTRACTOR	
DUCTING TO BE UNINSULATED	
DUCTING TO BE INTERNALLY LINED WITH 25mm SONIC LINER	
DUCTING TO BE INTERNALLY LINED WITH 50mm SONIC LINER	
DUCTING TO BE EXTERNALLY INSULATED WITH 25mm FOL FACED FIBREGLASS	
DUCTING TO BE EXTERNALLY INSULATED WITH 50mm FOL FACED FIBREGLASS	
PROTECTIVE COVERS TO BE FITTED OVER ALL FLEXIBLE CONNECTIONS	
EXPOSED DUCTING TO BE PAINTED IN ACCORDANCE WITH SCHEDULE CONTAINED IN STANDARD SPECIFICATION DOCUMENT	
FIBREGLASS MEMBRANE & RESIN WATERPROOFING	
BURGLAR BARS WELDED IN DUCTING @ 150mm CENTRE	
ELECTRICAL ISOLATOR & POWER - BY AC CONTRACTOR (NOT BY ELECTRICAL)	

BY ELECTRICAL CONTRACTOR	
ISOLATOR & POWER TO ISOLATOR	
INTERLOCK FAN TO LIGHT SWITCH	
POWER TO DISTRIBUTION BOARD	
DBS DRAW BOX CHASED INTO WALL @ 1500mm AFFL OR AS INSTRUCTED BY ARCHITECT c/w DBS CONDUIT & DRAW WIRE RUNNING TO AC UNIT	
100x100 DRAW BOX CHASED INTO WALL @ 1500mm AFFL OR AS INSTRUCTED BY ARCHITECT c/w DBS CONDUIT & DRAW WIRE RUNNING TO AC UNIT	
GENERATOR POWER TO ISOLATOR	

A	ISSUED FOR TENDER	N/W	S/B	2025/09/09
Rev	Description	Dwg	Appd	Date

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-EST. 2013-

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CLIENT:
BETAPOINT

ARCHITECT:
THE GREY WHIPPET ARCHITECTURE

PROJECT DESCRIPTION:
PROJECT SPRINGBOOK

DRAWING TITLE:
**HVAC INSTALLATION
ROOF LAYOUT**

STATUS:
TENDER

SCALE: As indicated	DRAWN BY: N/W	CHECKED BY: JCM	APPROVED BY: GJP
DRAWING NUMBER: G4260-1003			REV: A