

Panther House Planning Conditions

Condition 19: Anti Vibration Measures

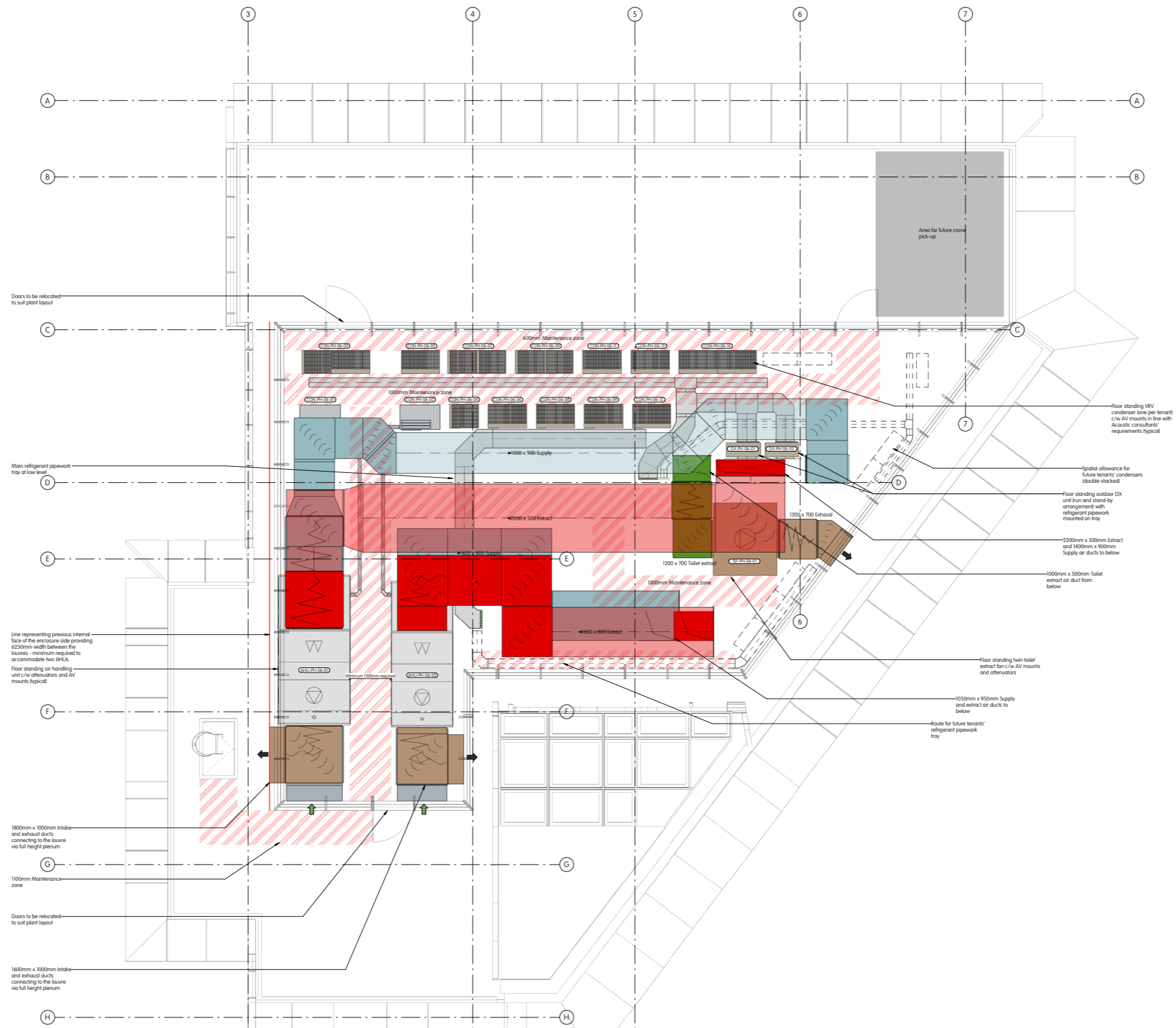
Prior to the commencement of the above ground superstructure works details of anti-vibration measures shall be submitted to and approved in writing by the Council. The measures shall ensure that the plant/ equipment and extract/ventilation system and ducting are mounted with proprietary anti-vibration isolators and fan motors are vibration isolated from the casing and adequately silenced. Approved details shall be implemented prior to occupation of the development and thereafter be permanently retained.

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The air handling units and extracts for the Panther House commercial buildings are located on the roof of Panther House.

Please refer to Vibration Isolator Schedule for details of anti vibration measures.



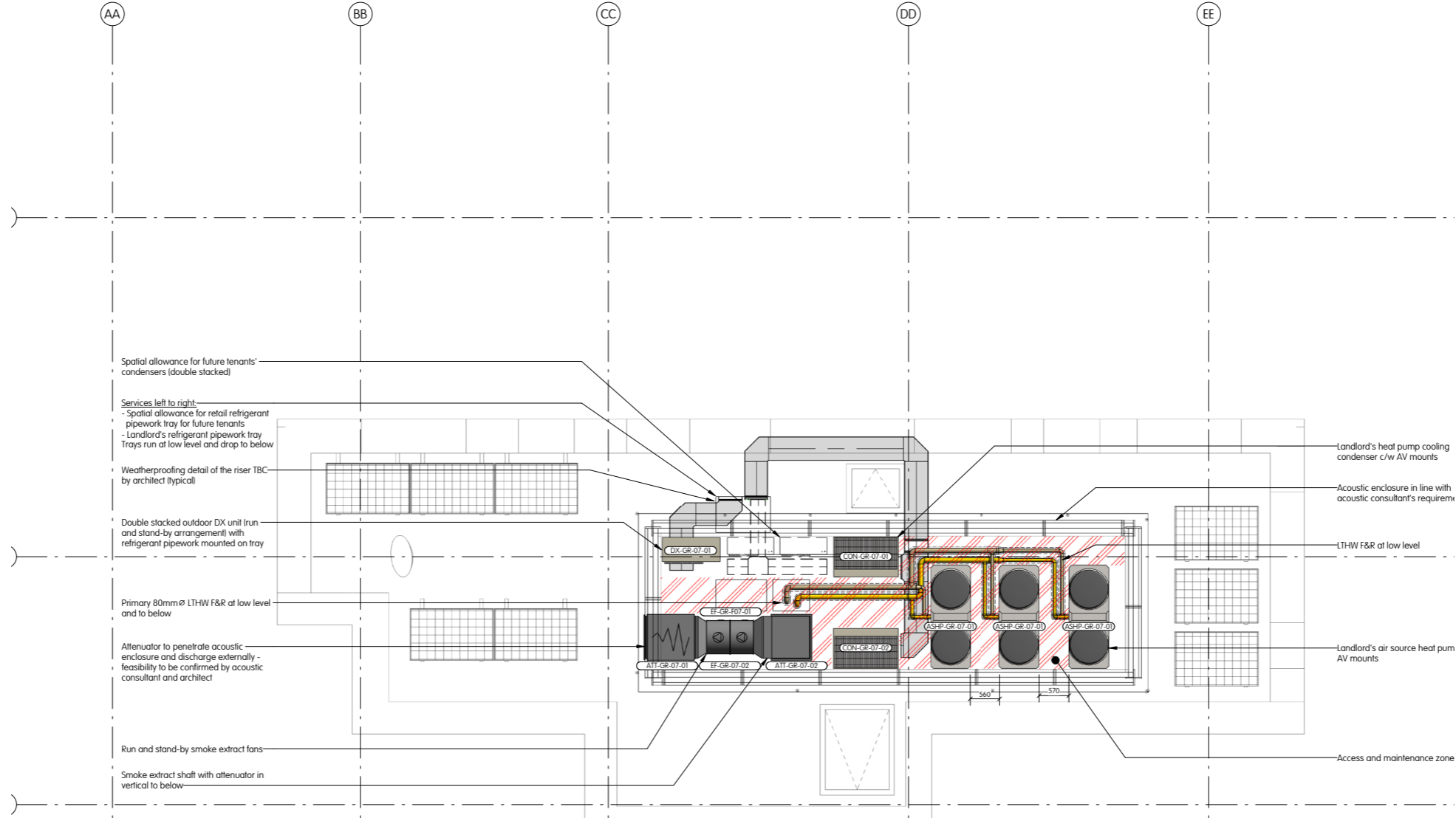
Panther House Roof Plant

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The air handling units and extracts for the Panther House commercial buildings are located on the roof of Panther House.

Please refer to Vibration Isolator Schedule for details of anti vibration measures.



Gray's Inn Road Roof Plant

Panther House Planning Conditions

Condition 19: Anti Vibration Measures



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VIBRATION ISOLATOR SCHEDULE

PANTHER HOUSE

REF: HT: 27969/VIS

Revision: 0	Date: 18 May 2022	Comments: None						
AVM Ref.	Plant Ref	System Description	Location	Power (kW)	Base Code	Isolator Code	Static Deflection (mm)	
	AHU-GR-00-01	Air Handling Unit GIR Landlord's areas	GF Bin Store		See Note 2	NIS or HNT	4	
	AHU-PH-00-01	Air Handling Unit Affordable office	PH GF plantroom		See Note 2	NIS or HNT	8	
	AHU-PH-00-02	Air Handling Unit Hub and Reception	PH GF plantroom		See Note 2	NIS or HNT	4	
	AHU-PH-06-01	Air Handling Unit PH office (Tenant B)	PH roof plant enclosure		See Note 2	NIS or HNT	15	
	AHU-PH-06-02	Air Handling Unit PH office (Tenant A)	PH roof plant enclosure		See Note 2	NIS or HNT	8	
	ASHP-GR-07-01	Air Source Heat Pumps (3No.)	GIR building roof plant enclosure		-	NIS	12	
	CON-GR-07-01	Condensers Flats 2,5,6,7,8 & 9	GIR roof plant area		-	NIS	12	
	CON-GR-07-02	Condensers Flats 10,11,12,13,14 & 15	GIR roof plant area		-	NIS	12	
	DX-GR-07-01	Condensers UPS Room	GIR roof plant area		-	NIS	12	
Base Code and Description		HTA Spec Ref	Isolator Code & Description		HTA	Isolator Code & Description		HTA Spec. Ref.
AVR : A V Rails		4.7.1	NP : Neoprene Pads		-	HSS : Hangers with steel springs		4.5
SFB : Steel frame base		4.7.2	CSS : Caged steel spring		4.2	HNT : Hangers with neoprene turrets		4.6
CIB : Concrete inertia base		4.7.3	OSS : Open steel spring		4.3	_/_R : Restraining or positioning device		4.1.1
CSP : Concrete split plinth		4.7.4	NIS : Neoprene-in-shear		4.4			
<p>Note 1 : To be read in conjunction with HTA's General Specification for Acoustic & Vibration Isolation Materials and Products (available upon request if not supplied).</p> <p>Note 2 : All cased fans shall have the above specified isolators internally beneath fan/motor frame, and be additionally isolated externally with neoprene pads having 2 mm (min) deflection.</p> <p>Note 3 : All pipework to be isolated between the plant and the first structural penetration using AV hangers/mounts with the above specified static deflection, and thereafter with brackets having neoprene inserts. CW booster pipework to be isolated on AV hangers throughout.</p>								

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PANTHER HOUSE

REF: HT: 27969/VIS

Revision: 0		Date: 18 May 2022		Comments: None				
AVM Ref.	Plant Ref	System Description	Location	Power (kW)	Base Code	Isolator Code	Static Deflection (mm)	
	EF-GIR-00-01	Bin Store Extract Fan	GR bin store GIR		See Note 2	NIS	6	
	EF-PH-00-01	Bin Store Extract Fan	GF bin store PH			NIS	6	
	EF-PH-00-02	Bin Store Extract Fan	GF bin store PH			NIS	6	
	P-GR-LG-01	M009 Pump Primary	Lower ground floor tank room	1.4	CIB	NIS	8	
	P-GR-LG-02	M009 Pump Secondary	Lower ground floor tank room	1.5	CIB	NIS	8	
P003	GIR CWB 1	Water Booster Set	Lower ground floor tank room GIR		-	CSS/R	25	
P003	PH CWB	Water Booster Set	Lower ground floor tank room PH		-	CSS/R	25	
		Smoke Extract Fan	GIR roof plant room			NIS/HNT	10	
Base Code and Description		HTA Spec Ref	Isolator Code & Description		HTA	Isolator Code & Description		HTA Spec. Ref.
AVR : A V Rails		4.7.1	NP : Neoprene Pads		-	HSS : Hangers with steel springs		4.5
SFB : Steel frame base		4.7.2	CSS : Caged steel spring		4.2	HNT : Hangers with neoprene turrets		4.6
CIB : Concrete inertia base		4.7.3	OSS : Open steel spring		4.3	_/_R : Restraining or positioning device		4.1.1
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<p>Note 1 : To be read in conjunction with HTA's General Specification for Acoustic & Vibration Isolation Materials and Products (available upon request if not supplied).</p> <p>Note 2 : All cased fans shall have the above specified isolators internally beneath fan/motor frame, and be additionally isolated externally with neoprene pads having 2 mm (min) deflection.</p> <p>Note 3 : All pipework to be isolated between the plant and the first structural penetration using AV hangers/mounts with the above specified static deflection, and thereafter with brackets having neoprene inserts. CW booster pipework to be isolated on AV hangers throughout.</p>								

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VIBRATION ISOLATOR SCHEDULE

PANTHER HOUSE

REF: HT: 27969/VIS

Revision: 2		Date: 18 May 2022			Comments: None			
System Description		Location			Isolator Code		Static Deflection (mm)	
Pipework to AHUs		First 20 pipe diameters or up to structural penetration. See Note 3.			To suit AHU isolators		As per AHU external	
Pipework to Pumps		First 100 pipe diameters or up to Structural penetration. See Note 3.			HNT or HSS/R		As per pump	
Pipework to Chillers		First 100 Pipe diameters or up to structural penetration. See Note 3.			HNT or HSS/R		As per plant	
Pipework to CW Boosters		Whole length			HSS/R		25	
Base Code	Description	HTA Spec. Ref.	Isolator Code	Description	HTA Spec. Ref.	Isolator Code	Description	HTA Spec. Ref.
AVR	AV Rails	4.7.1	NP	Neoprene Pads	-	HSS	Hangers with steel springs	4.5
SFB	Steel frame base	4.7.2	CSS	Caged steel spring	4.2	HNT	Hangers with neoprene turrets	4.6
CIB	Concrete inertia base	4.7.2	OSS	Open steel spring	4.3	_/R	Restraining or positioning device	4.1.1
CSP	Concrete split plinth	4.7.4	NIS	Neoprene-in-shear	4.4			
Note 1	To be read in conjunction with HTA's General Specification for Acoustic & Vibration Isolation Materials and Products (available upon request if not supplied)							
Note 2	All cased fans shall have the above specified isolators internally beneath fan/motor frame, and be additionally isolated externally with neoprene pads having 2mm (min) deflection							
Note 3	All pipework to be isolated between the plant and the first structural penetration using AV hangers/mounts with the above specified static deflection, and thereafter with brackets having neoprene inserts. CW booster pipework to be isolated on AV hangers throughout.							