Location Plan



Local Development Plan Provisions

1.0 GENERAL PROVISIONS

1.1 Consultation with the adjoining or other landowners to achieve a variation to State Planning Policy 7.3 – Residential Design Codes (R-Codes) or Local Planning Policy 4.19: Medium-Density Housing Standards (LPP 4.19) (as applicable), as provided by this Local Development Plan (LDP), is not required.

All requirements, other than those as detailed within this LDP, of the City of Wanneroo District Planning Scheme No. 2 (DPS 2), R-Codes and LPP 4.19 are to be satisfied.

The development standards contained in this LDP apply in addition to those development requirements of the City of Wanneroo DPS 2, Agreed Structure Plan 60 – Lots 1011 & 1002 Marmion Avenue, Alkimos, any relevant planning policy (including LPP 4.19 and the R-Codes) as applicable.

2.0 RESIDENTIAL DESIGN CODE AND ZONE

	LOTS APPLICABLE	R-CODE DENSITY AND ZONING
	Lots 2398 - 2408, 2411 - 2414, 2422 - 2434, 2886 - 2889	RMD30
ĺ	Lots 2416 – 2420, 2883, 2884	RMD40

3.0 DEVELOPMENT STANDARDS

- 3.1 For Lot 2398 siding onto Public Open Space (POS), a minimum 1.0m side setback to the POS boundary is permitted. 3.2 For Lots 2416 – 2420, 2883 and 2884, directly orientated to Public Open Space (POS) a minimum 2.0m setback to the POS boundary is permitted.
- 3.3 For Lots 2398, 2416 2420, 2883 and 2884 dwellings shall have one or more major opening(s) to a habitable room
- 3.4 For Lots 2422, 2429, 2430, 2888 and 2889, access to on site car parking spaces is permitted from both a primary or secondary street frontage

4.0 ACOUSTIC REQUIREMENTS

LOTS APPLICABLE	REG	QUIREMENTS
Lots 2403 - 2408, 2422 - 2427, 2430 - 2434, 2886 - 2889	4.1	Façade protection treatments (Quiet House Design Measures) as defined in the Lloyd George Transportation Noise Assessment dated 9 January 2024 are required for the following:
		Ground Floor: Lots 2424 – 2425, 2432 – 2434 as per Package 'A', Lots 2408, 2423 and 2886 – 2887 as per Package 'B' and Package 'C' for Lots 2422, 2888 and 2889.
		<u>Upper Floor:</u> Lots 2403 – 2406, 2425 – 2427 and 2430 – 2432 as per Package 'A', Lots 2407, 2408, 2423, 2424, 2433, 2434 and 2886 as per Package 'B', Lot 2887 as per Package 'C' and Lots 2888, 2889 and 2422 subject to 'Specialist Advice'.
		Details of the Quiet House Design Requirements are included in Attachment 1.

Legend

Extent of Local Development Plan



Preferred Garage Location

Primary Dwelling Orientation

POS

grid: PCG 94

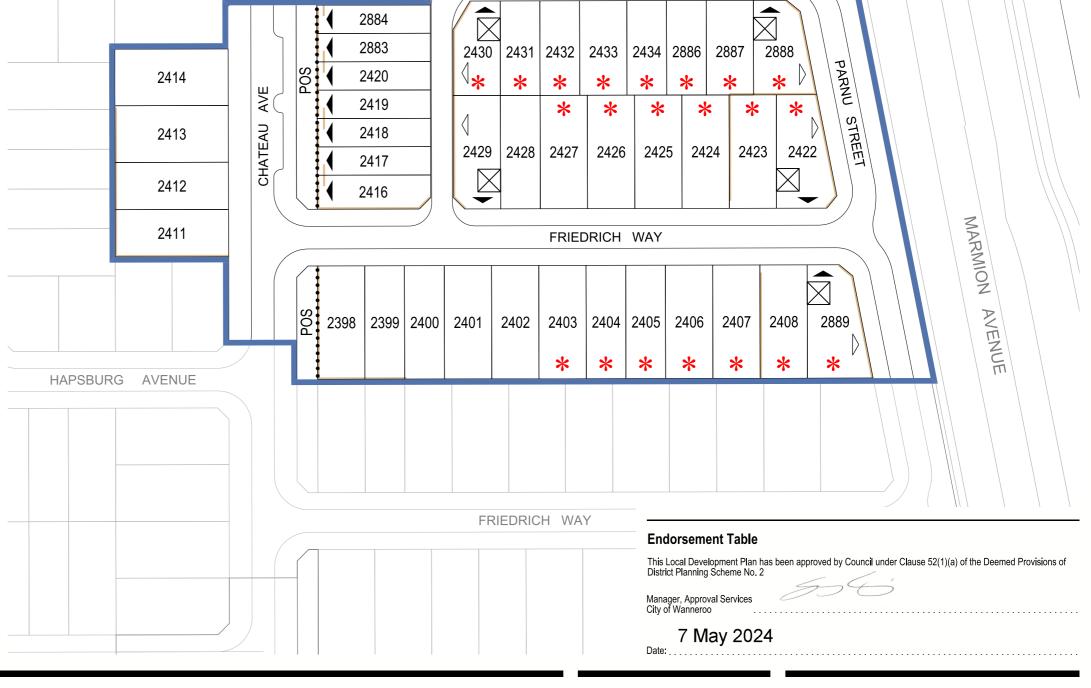
checked:

Wanneroo

Retaining Walls (by developer)

Uniform Fencing by developer (visually permeable above 1.2m)

Lots Subject to Quiet House Design Secondary Dwelling Orientation



-HOWDEN PARADE

KAMENI WAY

ATTACHMENT 1 - QUIET HOUSE DESIGN PACKAGES - LLOYD GEORGE ACOUSTICS

Quiet House Package A

56-58 dB $L_{Aeq(Day)}$ & 51-53 dB $L_{Aeq(Night)}$

Florenses	Orientation	Room				
Element		Bedroom	Indoor Living and Work Areas			
External Windows	Facing	Up to 40% floor area (R _w + C _{tr} ≥ 28): Sliding or double hung with minimum 10mm single or 6mm-12mm-10mm double insulated glazing; Sealed awning or casement windows with minimum 6mm glass. Up to 60% floor area (R _w + C _{tr} ≥ 31): Sealed awning or casement windows with minimum 6mm glass.	 Up to 40% floor area (R_w + C_{tr} ≥ 25): Sliding or double hung with minimum 6mm single or 6mm-12mm-6mm double insulated glazing; Up to 60% floor area (R_w + C_{tr} ≥ 28); Up to 80% floor area (R_w + C_{tr} ≥ 31). 			
	Side On	As above, except $R_{\rm w}$ + $C_{\rm tr}$ values may be 3 dB less or max % area increased by 20%.				
	Opposite	No specific requirements				
External Doors	Facing	 Fully glazed hinged door with certified R_w + C_{tr} ≥ 28 rated door and frame including seals and 6mm glass. 	Doors to achieve R _w + C _{tr} ≥ 25: 35mm Solid timber core hinged door and frame system certified to R _w 28 including seals; Glazed sliding door with 10mm glass and weather seals.			
	Side On	As above, except R _w + C _{tr} values may be 3 dB less.				
	Opposite	No specific r	equirements			
External Walls	All	weatherboards fixed to the out	th 13mm cement render on each face; or others with: the outside of the studs; and ent sheeting or 11mm fibre cement tricked; ation with a density of at least 11kgkg/m³; and			
Roofs and Ceilings	All	R _w + C _{tr} ≥ 35: Concrete or terracotta tile or metal plasterboard.	sheet roof with sarking and at least 10mm			
Outdoor Living Areas		At least one outdoor living area located on the opposite side of the building from the transport corridor and/or at least one ground level outdoor living area screened using a solid continuous fence or other structure of minimum 2 metres height above ground level.				

Quiet House Package B

59-62 dB L_{Aeq(Day)} & 54-57 dB L_{Aeq(Night)}

		Room		
Element	Orientation	Bedroom Indoor Living and Work Areas		
External Windows	Facing	 Up to 40% floor area (R_w + C_{tr} ≥ 31): Fixed sash, awning or casement with minimum 6mm glass or 6mm-12mm-6mm double insulated glazing. Up to 60% floor area (R_w + C_{tr} ≥ 34): Fixed sash, awning or casement with minimum 10mm glass or 6mm-12mm-10mm double insulated glazing. Up to 60% floor area (R_w + C_{tr} ≥ 31); Up to 60% floor area (R_w + C_{tr} ≥ 34). Up to 80% floor area (R_w + C_{tr} ≥ 34). 		
	Side On	As above, except R_w + C_{tr} values may be 3 dB less or max % area increased by 20%.		
	Opposite	As above, except R_w + C_{tr} values may be 6 dB less or max % area increased by 20%.		
External Doors	Facing	 Fully glazed hinged door with certified R_w + C_{tr} ≥ 31 rated door and frame including seals and 10mm glass. Doors to achieve R_w + C_{tr} ≥ 28: 40mm Solid timber core hinged door and frame system certified to R_w 32 including seals; Fully glazed hinged door with certified R_w + C_{tr} ≥ 28 rated door and frame including seals and 6mm glass. 		
	Side On	As above, except R _w + C _{tr} values may be 3 dB less or max % area increased by 20%.		
	Opposite	As above, except R _w + C _{tr} values may be 6 dB less or max % area increased by 20%.		
External Walls	All	R _w + C _{tr} ≥ 50: Two leaves of 90mm thick clay brick masonry with minimum 50mm cavity between leaves and 25mm glasswool or polyester (24kg/m³). Resilient ties used where required to connect leaves. Two leaves of 110mm clay brick masonry with minimum 50mm cavity between leaves and 25mm glasswool or polyester insulation (24kg/m³). Single leaf of 220mm brick masonry with 13mm cement render on each face. 150mm thick unlined concrete panel or 200mm thick concrete panel with one layer of 13mm plasterboard or 13mm cement render on each face. Single leaf of 90mm clay brick masonry with: A row of 70mm x 35mm timber studs or 64mm steel studs at 600mm centres; A cavity of 25mm between leaves; Somm glasswool or polyester insulation (11kg/m³) between studs; and One layer of 10mm plasterboard fixed to the inside face.		
Roofs and Ceilings	All	R _w + C _{tr} ≥ 35: Concrete or terracotta tile or metal sheet roof with sarking and at least 10mm plasterboard ceiling with R3.0+ fibrous insulation.		
Outdoor I	Living Areas	At least one outdoor living area located on the opposite side of the building from the transport corridor and/or at least one ground level outdoor living area screened using a solid continuous fence or other structure of minimum 2.4 metres height above ground level.		

Mechanical Ventilation requirements

In implementing the acceptable treatment packages, the following mechanical ventilation / air-conditioning considerations are required:

- Acoustically rated openings and ductwork to provide a minimum sound reduction performance of R_w 40 dB into sensitive spaces;
- Evaporative systems require attenuated ceiling air vents to allow closed windows;
- Refrigerant based systems need to be designed to achieve National Construction Code fresh air ventilation requirements;
- Openings such as eaves, vents and air inlets must be acoustically treated, closed or relocated to building sides facing away from the corridor where practicable.

Notification

Notifications on title advise prospective purchasers of the potential for noise impacts from major transport corridors and help with managing expectations.

The Notification is to state as follows:

This lot is in the vicinity of a transport corridor and is affected, or may in the future be affected, by road and rail transport noise. Road and rail transport noise levels may rise or fall over time depending on the type and volume of traffic.

Quiet House Package C

63-66 dB L_{Aeq(Day)} & 58-61 dB L_{Aeq(Night)}

Element	Orientation	Room			
		Bedroom Indoor Living and Work Areas			
External Windows	Facing	 Up to 20% floor area (R_w + C_{tr} ≥ 31): Fixed sash, awning or casement with minimum 6mm glass or 6mm-12mm-6mm double insulated glazing. Up to 40% floor area (R_w + C_{tr} ≥ 34):			
Ī	Side On	As above, except $R_{\rm w}$ + $C_{\rm tr}$ values may be 3 dB less or max % area increased by 20%.			
	Opposite	As above, except R _w + C _{tr} values may be 6 dB less or max % area increased by 20%.			
External Doors	Facing	 Not recommended. Doors to achieve R_w + C_{tr} ≥ 30: Fully glazed hinged door with certified R_w + C_{tr} ≥ 31 rated door and frame including seals and 10mm glass; 40mm Solid timber core side hinge door, frame and seal system certified to R_w 32 including seals. Any glass inserts to be minimum 6mm. 			
	Side On	As above, except R _w + C _{tr} values may be 3 dB less or max % area increased by 20%.			
	Opposite	As above, except $R_{\rm w}$ + $C_{\rm tr}$ values may be 6 dB less or max $\%$ area increased by 20%.			
External Walls	All	R _w + C _{tr} ≥ 50: Two leaves of 90mm thick clay brick masonry with minimum 50mm cavity betwee leaves and 25mm glasswool or polyester insulation (24kg/m³). Resilient to used where required to connect leaves. Two leaves of 110mm clay brick masonry with minimum 50mm cavity between leaver and 25mm glasswool or polyester insulation (24kg/m³). Single leaf of 220mm brick masonry with 13mm cement render on each face. 150mm thick unlined concrete panel or 200mm thick concrete panel with one layer 13mm plasterboard or 13mm cement render on each face. Single leaf of 90mm clay brick masonry with:			
Roofs and Ceilings	All	R _w + C _{tr} ≥ 40: Concrete or terracotta tile roof with sarking, or metal sheet roof with foil backe R2.0+ fibrous insulation between steel sheeting and roof battens; R3.0+ insulation batts above ceiling; 2 x 10mm plasterboard ceiling or 1 x 13mm sound-rated plasterboard affixed usin steel furring channel to ceiling rafters.			
Outdoor I	Living Areas	At least one outdoor living area located on the opposite side of the building from the transport corridor and/or at least one ground level outdoor living area screened using a solid continuou fence or other structure of minimum 2.4 metres height above ground level.			