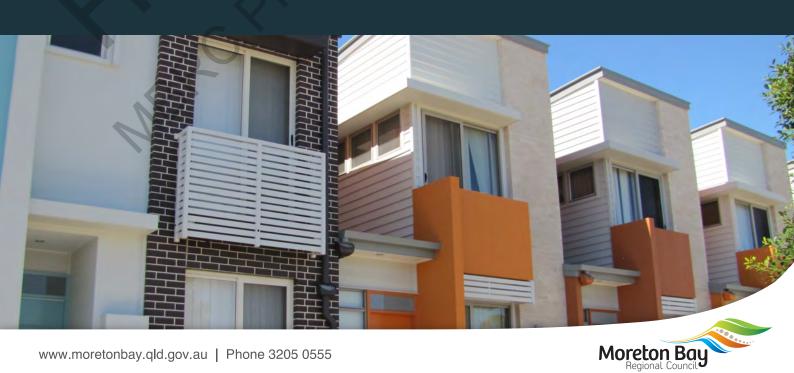
Planning Scheme Policy Residential Design



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Adoption

Moreton Bay Regional Council adopted this planning scheme policy on 24 November 2015.

Commencement

This planning scheme policy will take effect from 1 February 2016.

1. Introduction

This policy supports the Moreton Bay Regional Council Planning Scheme and has been made by Council in accordance with Chapter 3, Part 4, Division 2 and Part 5, Division 1 of the Sustainable Planning Act 2009.

1.1 Purpose

The purpose of this planning scheme policy is to:

- provide additional information in the form of images and explanatory text to provide guidance about satisfying assessment criteria identified in the planning scheme;
- encouraging more innovative and site specific design solutions and less 'cookie cutter' development;
- increase stakeholder understanding of the range of housing types that fill the 'gap' between detached and attached dwellings.

1.2 Application

This planning scheme policy applies to residential uses within the following zones, precincts or local plans:

- General residential zone, all precincts;
- Emerging community zone, Transition precinct if on a developed lot;
- Township zone, Township residential precinct;
- Redcliffe local plan, Interim residential precinct;
- Caboolture West local plan, Urban living precinct (Next generation sub-precinct), Town centre
 precinct (Residential north sub-precinct, Residential south sub-precinct).

This planning scheme policy may be applied to residential uses within the following zones, precincts or local plans:

- Centre zone code Caboolture centre precinct, Petrie mill precinct, Strathpine centre precinct, District centre precinct, Local centre precinct;
- Redcliffe local plan Redcliffe seaside village precinct, Kippa-Ring village precinct, Local services precinct and health precinct;
- Caboolture West local plan Urban living precinct and Town centre precinct.

1.3 Interpretation

Terms used in this planning scheme policy are defined in Schedule 1 – Definitions of the planning scheme. Where a term is not defined in Schedule 1, section 1.3 Interpretation of the planning scheme applies.

1.4 Who should use the Residential design PSP

This planning scheme policy is intended to be used by developers and designers, development assessment planners and building professionals.

This document may be referred to in information requests.

1.5 How to read the Residential design PSP

This planning scheme policy is not a prescriptive tool, it is intended to raise general awareness about housing diversity and initiate innovative design ideas and solutions.

1.6 Disclaimer

Diagrams and photos used in the planning scheme policy may not comply with all assessment criteria in the planning scheme. Some diagrams and photos have been used to illustrate a particular element and should be used as such.

Where conflict occurs between the planning scheme and the content, diagrams or images in this policy, the planning scheme prevails.

2. Residential places

The MBRC Place model has been used in the Strategic framework to identify and describe a series of broad scale place types, each with a distinguishing mix and intensity of uses, development forms, character, function and special qualities to guide the planning and development of the diversity of places across the region. A visual representation of the MBRC place types is shown on the following page in a transect diagram.

The place model includes 4 residential places, which generally translate to the 4 precincts in the General residential zone; coastal villages, suburban neighbourhoods, next generation neighbourhoods and urban neighbourhoods. These precincts are briefly described below:

Coastal villages: Characterised by their coastal location, these villages will maintain their predominantly low-density character with detached dwellings as the predominant built form.

Suburban neighbourhood: Characterised by low-density, low rise housing with detached dwellings as the predominant built form.

Next generation neighbourhood: Characterised by a diverse mix of dwelling types with convenient access to centres, community facilities and public transport. Detached dwellings on a variety of lot types and a range of attached and low rise multiple dwellings are the predominant built form.

Urban neighbourhood: Characterised by the densest forms of housing located within walking distance of a diverse range of services and activities. Attached dwellings and medium and high rise apartment buildings are the predominant built form.

These are not the only residential areas within the region there are also residential areas in the township place type, these are identified through the Township residential precinct in the Township zone. Further, some urban and next generation place types identified in the Strategic framework are in developing or yet to be developed areas. These future communities are translated into the planning scheme through the emerging community zone. As well as some precincts and sub-precincts identified in a local plan area.

The zone and precinct outcomes and provisions within the planning scheme have been drafted to implement and realise the vision described in the Strategic framework. This has been achieved by recognising that some elements of development relate to the place and other elements relate to the use.

Place based elements

Design elements such as setbacks, site cover, height and density vary depending on the place. For example, an urban place looks different to a coastal village which is less dense, with lower building heights and more space between buildings etc. thus requiring different assessment criteria for building heights, setbacks, site cover and density. Assessment criteria for these elements are included in the General residential zone code and zone precincts to reflect the place types in the Strategic framework. Assessment criteria for a Dwelling house are incorporated into the Dwelling house code and include place specific elements such as setbacks, site cover, height etc for a Dwelling house. These provisions are further described and illustrated in section 4 of this Planning scheme policy.

Use based elements

Design elements that relate to the use such as private and communal open space, access ways, landscaping, fencing, building appearance and utility areas etc, are included in the Residential uses code. Some of these elements vary depending on the precinct (e.g. car parking rates, landscaping dimensions etc.), however other factors associated with these elements relate to the use, therefore they have been included within the Residential uses code. The residential uses code may apply to the centre zone accordingly; relevant rates for car parking in this zone and relevant precincts have been included.



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2.1 Density

Density has been used in three sections of the planning scheme; the Strategic framework, the General residential zone code and the Reconfiguring a lot code. The Strategic framework uses a land use intensity measure of 'people and/or jobs per ha' as well as residential densities to describe the vision. The Reconfiguring a lot code and the General residential zone code utilise the measure of residential densities (e.g. dwellings per hectare).

The key focus in the Strategic framework is to plan for a future with reduced private vehicle dependence, but density is needed to support sustainable public transport and active transport networks. Research undertaken by Peter Newman and Jeffrey Kenworthy identifies a minimum threshold of urban intensity of 35 residents and/or jobs per hectare. Below this intensity the physical constraints of distance and time enforce car use. Above this intensity there is a higher inclination for a range of alternative modes of transport to be used for trips more frequently.

35 residents and/or jobs per hectare is a measure of activity intensity, the concentration of activities in a given area, which is related to the number of possible trip origins and destinations in an area and the energy/effort required to access goods and services within a given area. The lower the intensity of activity the further more people have to travel to more dispersed locations to access the goods and services they need and the greater likelihood that the only practical way of accessing those goods and services is the private motor vehicle.

The Strategic framework uses place types to convey the overall outcomes, including activity intensity, intended to be achieved in a place. This in turn gives guidance, order, and structure about the land uses, building types and densities that can be combined to produce acceptable outcomes which achieve the long term planning aspirations of Council.

The planning scheme identifies the variety of land uses, density, building forms and lot configurations generally consistent with the intended activity intensity of each place type. Because the planning intention of Council is to gradually raise the intensity of activity in selected place types (e.g. Urban neighbourhood place type) over time to greater than 35 people and/or jobs per hectare, some place types have a specified minimum density only. This will encourage development and redevelopment that brings more people and jobs into an area. Other place types (e.g. Coastal villages and Suburban neighbourhood place types) have a maximum density specified and have not been targeted for an increase in the intensity of activity because they are not centrally located or have an established low activity intensity. In these places the remaining development opportunities are unlikely to change the intensity of activity, therefore alternative modes of transport are unlikely to become viable in the planning timeframe. Other places types (e.g. next generation neighbourhood place types) seek to avoid uniformity in built form outcomes and therefore include a specified range of possible site densities.

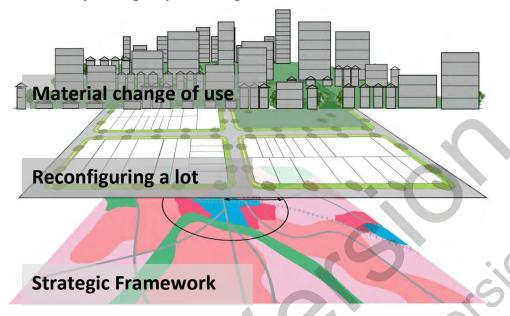
The table below lists the density targets used in the planning scheme for the residential place types and precincts previously described.

Density in the MBRC Planning Scheme	Residential place types General residential zone precincts			
	Coastal Villages	Suburban neighbourhood	Next generation neighbourhood	Urban neighbourhood
Strategic Framework	N/A	Max 11 dwellings/ha – Net residential density	35 people and/or jobs per ha (for people this equates to a minimum of 15-25 dwellings/ha – Net residential density)	60 people and/or jobs per ha (for people this equates to a minimum of 30 dwellings/ha – Net residential density)
Reconfiguring a lot code, Precinct overall outcomes	Max 11 lots/ha - Net residential density	Max 11 lots/ha – Net residential density	11-25 lots/ha – Net residential density	N/A lots/ha - *must not compromise the precincts future ability to achieve a minimum site density of 45 dwellings per hectare.
General residential zone code, Precinct overall outcomes	Max 15 dwellings/ha – Site density	Max 15 dwellings/ha – Site density	15d/ha - 75 dwellings/ ha – Site density	Minimum 45* or Minimum 75* dwellings/ha – Site density *Refer to zone code to determine applicable minimum density required.

¹ Newman, P. and Kenworthy J. 2006 Urban Design to Reduce Automobile Dependence, Opolis Vol. 2, No.1 pp. 35-52

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To achieve the land use intensity described in the Strategic framework, reconfiguring a lot density and material change of use density occurring at the site level are layered together and combined with other planning provisions for non-residential land uses like parks, schools, centres and neighbourhood hub's to create a land use intensity envisaged by the Strategic framework.



Densities sought in the Reconfiguring a lot code for the Coastal villages, Suburban and Next generation neighbourhood precincts are expressed as a number of lots per hectare rather than dwellings in recognition that at the reconfiguring a lot stage it is not always possible to know the ultimate development of each lot. However, density outcomes for reconfiguring a lot in the Urban neighbourhood precinct are different to the other precincts as the precinct will require either very small lots or very large lots to facilitate the higher densities sought. Accordingly, the outcomes for this precinct require the size of lots created ensures the minimum site density for the urban precinct can be achieved.

The densities sought in the General residential zone code appear higher than those listed in the Reconfiguring a lot code because the code expresses density as a number of dwellings per hectare. This code applies to Material change of use applications and ensures a higher concentration of dwellings on site in order to achieve the residential density or land use intensity sought by the Strategic framework.

It is important to remember that residential density is not always a reliable measure of built form intensity, nor is it the sole factor in place making. It is a tool to help inform good decision making and to help ensure objectives are met. It is not a reliable indication of how a place feels or functions.

Density targets should not be applied as a blanket control on individual sites within a broader area. This would result in monoculture rather than variety. For this reason densities in the planning scheme are either a maximum, a minimum or include a range (e.g. 15 - 75 d/ha) to avoid their use as a 'one-size fits all' planning control.

To meet housing diversity needs and make efficient use of land and services in Caboolture West, the Local plan code sets an average net residential density overall of 22 dwellings per hectare which combines the proposals for:

- Next Generation 20: Net residential densities between 15-25 dwellings per hectare with a minimum average of 20 dwellings per hectare; and
- Next Generation 30: Net residential density of a minimum average of 30 dwellings per hectare.

This is a different approach to that used in the rest of the planning scheme, however it is intended to result in the same outcome, dwelling diversity.

Calculating Residential Density:

Residential density can be measured in a number of different ways. All residential density measures are calculated using the same basic ratio formula: the number of dwellings divided by the area of land they occupy.

Residential density = Number of lots/dwellings

Land area

These two residential density measures are referred to as "Net residential density" in the reconfiguring a lot code and "Site density" in zone codes. These residential densities are further described and defined below.

The extent of land included in the land area determines the type of density measure used.

Types of density measures and extent of land included:

- **SITE** density: includes only the site area. Including internal access ways for community title developments and areas of land impacted by values or constraints (e.g. flooding, environmental areas and corridors etc.). It is the most concentrated measure of density.
- **NET** density: includes the site area in addition to local roads and local parks.

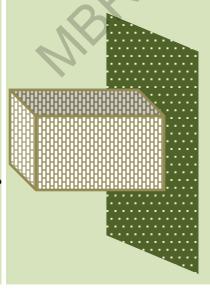
The planning scheme uses two residential density measures depending on the development (RAL or MCU) and the purpose of the outcome or the intent of the code.

The table below explains the equivalent densities between 'Net residential' and 'site' densities.

Net Residential Density (Dwellings per hectare d/ha)	10d/ha	11d/ha	15d/ha	25d/ha	30d/ha	40dh/a	50d/ha	80d/ha
Average lot area required for 1 dwelling (10,000/1.5/d/ha)	666m ²	606m ²	444m ²	266m ²	222m²	166m ²	133m ²	83m ²
Average dwellings required on a 1000m ² lot (0.1 X d/ha)	1.5 dwelling s	1.65 dwelling s	2.25 dwelling s	3.75 dwelling s	4.5 dwelling s	6 dwelling s	7.5 dwelling s	12 dwelling s
Site density (dwellings per hectare d/ha)	15d/ha	16.5d/ha	22.5 d/ha	37.5d/ha	45d/ha	60d/ha	75d/ha	120d/ha

Residential Density:

Site density = Measure of MCU density



Definition and purpose:

Site density includes only the site area and does not take into account the area of local roads and parks. It is the most concentrated measure of density.

dwellings on a site or number of residential units allowed to be developed on a site. Site density has been used in the planning scheme to ensure the efficient use of land. The purpose of site density is to indicate the intensity of

Calculation:

The total number of dwellings in a

The site area (ha), (the property on which the buildings(s) are constructed, not including roads, footpaths or parks) Site Density =

8

Site density x site area (ha) Number of dwellings = Example: 10 dwellings, sited on a 0.5ha site (10 dwellings divided by the site area of 0.5ha), equals a site density of 20d/ha.

Net residential density (NRD) = Measure of RAL density



Land included in	Land excluded from Devel
Developable land	land
All land for residential purposes	 Land for purposes other than res
Land for mixed use containing	 Parks servicing the broader region
residential uses	(district and higher order parks)

- residential uses
- Land for local parks
 Land for local roads

Higher and middle order roads (National,

state, arterial, sub-arterial or district

 Land deemed to be undevelopable due to constraints such as flooding, future roads requirements, steep land and significant vegetation.

Definition and purpose:

as well as local roads and local park as shown and listed Net residential density includes residential components in the column to the left. This measure is useful when considering the density of larger developments, such as residential subdivision.

Calculation:

Residential = Density

(NRD)

The total number of lots/dwellings Developable land (hectares)

NRD x site area (ha)* Number of dwellings =

*Note: To calculate the net residential density of a small individual site, allowance must be given for the area of local roads and parks. Using a ratio of 2:1 (residential land: local roads and park), the area of a site must be increased by a factor of 0.5 to translate site density to net

Example: A NRD of 15d/ha on a 0.5ha site (15d/ha x (0.5 x 1.5) equals 11 lots.

Note: The factor of 1.5 should not be used for sites with internal roads and public space such as community management schemes

Land use Intensity:

People and/or jobs per ha = Strategic framework intensity

PEOPLE OR JOBS PER HA is a holistic measure of intensity and includes residential uses, local roads plus local non-residential uses such as parks, shops and schools.



Definition and purpose:

It is inclusive of a local neighbourhood and a wider range of urban land uses and activities than residential density. Generally large areas of flood prone land, significant vegetation or undeveloped land are not included. It includes residential and non-residential areas.

or indicate whether there is sufficient activity in an area to The purpose of People and/or jobs per ha is to determine area meets or does not meet the vision and objectives of make the area walkable and more serviceable by public the Strategic framework rather than net or site density. jobs per ha' is a more appropriate measure of how an transport. Land use intensity figures of 'people and/or

commercial, industrial, local parks, roads and other urban land uses) less existing and forecast people and jobs for all the parcels of land within that same as net or site density. The measure of intensity or concentration of Activity intensity is measured over an area of urbanised land (residential, activities can be determined by selecting a focal point for activities (such selected area. Each of these calculated measures provide an indication kilometre radius around a focal point and then extracting estimates of as a local centre, a train station or an industrial area), measuring a 1 any large undeveloped areas and non-urban land uses. It is not the of the level of activity intensity across the urban area.

building mass to people and jobs and these conversion rates themselves contain a few thousand urban land parcels. Each land parcel contributes how much floor space is available on a site. Conversion factors such as measure of building mass on any given site i.e. how many buildings or The measure of intensity is indirectly related to residential net and site residential activity on each parcel can vary significantly depending on density as used in the planning scheme measures which are more a occupancy rates, and floor space per employee are used to convert can change over time with demographic change and changes in the economy. A 1 kilometre radius area covers 314 hectares, and may to the measure of activity intensity but residential density and nondevelopment and market feasibility at any particular point in time, factors such as historic patterns of land use, the economics of ownership or planning scheme measures.

2.2 Dwelling diversity

Dwelling diversity provides a mix of dwellings that meet the different needs of a wide range of people in society. Of all the residential places in the Moreton Bay region the Next generation neighbourhood has the greatest dwelling diversity.

Dwelling diversity is important because it enables neighbourhoods to provide for changing demographics. It helps address housing affordability issues and it provides for different lifestyle choices and life stages including young families, single people and retirees. Having a wide range of dwellings makes it easier to meet the diverse housing needs of home owners, renters, investors, families, one or two person households and first home buyers. Diverse housing in local neighbourhoods helps build diverse and socially interesting places, avoiding housing 'monocultures'. They also cater to households on a range of income levels. In addition, a diversity of housing can contribute to the visual interest of the streetscape and neighbourhood, counteracting the uniformity of built form which can occur when all the dwellings are of a similar type.

1.2.1 Principles for successful housing diversity

MBRC has 5 principles for delivering successful housing diversity in greenfield and established areas.



Affordability

Housing affordability needs to take into consideration all aspects relating to cost, not just the cost of construction. These costs include proximity to employment, schools, public transport and services and the use of materials, equipment and technology that reduce the running cost of a home. Individual dwelling design should consider issues such as orientation, building materials and insulation, to promote environmental sustainability.



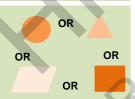
Amenity

The amenity of new dwelling occupants and neighbours is a significant issue that must be addressed when designing for housing diversity, particularly in established areas. Building designs that consider the streetscape, prevailing breezes and access to winter sun both on the site and neighbouring premises, will ensure the best possible amenity outcomes for occupants and their neighbours are achieved.



Privacy

The privacy of occupants of new dwellings and of surrounding neighbours is regularly raised as a major concern where smaller allotments and units are proposed. Appropriately designed dwellings will ensure that privacy, both visual and acoustic, is maintained, whilst not impeding active streetscape outcomes and neighbourhood interaction.



Wide choice

The housing market for smaller dwellings is not limited to one particular housing type or lot size. A wide range of housing products need to be delivered to ensure there is adequate choice for homebuyers at varying stages of life and in varying financial positions, and to ensure diversity within the overall streetscape.



Salt and peppering

It is important that diverse housing forms are not clustered in only one location in a neighbourhood, but that they are dispersed in a variety of locations. There may still be localised 'clustering' of housing types, however, it should not be to an extent that clearly identifies an area as being different to otherwise similar areas. The key to successful housing diversity is to normalise it.

3. Residential typologies

The Planning scheme defines three main residential uses - dwelling house, dual occupancy and multiple dwelling. Within each of these uses are a variety of housing types (i.e. traditional dual occupancy, loft or plex). We refer to these housing types as "residential typologies". Acknowledging that residential typologies are always changing and the distinction between attached and detached dwellings is becoming blurred, this section of the policy describes the residential typologies expected in the General residential zone. These typologies are utilised to demonstrate the variety of dwelling options available. Section 3.2 identifies which typologies are found in the three main residential places and section 3.3 describes and illustrates each typology.

3.1 Typologies defined

The use of typologies emphasises the built form rather than the use, for example a Retirement facility (use) could be located in a high rise apartment or a townhouse community. Residential typologies are used as a way of encouraging housing diversity and choices for places as desired by the Strategic framework.

The table below identifies examples of different residential typologies and what the defined use would be in the Planning scheme (refer to Schedule 1 Definitions in the planning scheme.

Typology	Use Definition		· (O)
	Dwelling House	Dual Occupancy	Multiple Dwelling
Secondary dwelling	✓	(x	X
Dwelling house (Traditional Lot)	✓	x	×
Dwelling house (Narrow Lot)	✓	× 6	*
Dual Occupancy (Traditional)	*	10	×
Dual Occupancy (Loft)	*		*
Terrace or row housing	Where individually titled	Q *	✓ Where community titled
Plex: (3 to 5 units) Triplex Quadplex Quinplex	* A	×	✓
Low Rise Apartment	*	*	✓
Medium Rise Apartment	×	*	✓
High Rise Apartment	x	*	✓
Townhouses (Managed Communities)	*	×	✓ Where community titled

Other residential use definitions include: Retirement facility, Residential care facility, Relocatable home park, Rooming accommodation, Short term accommodation, Tourist park.

3.2 Typology locations – Dwelling houses and Residential uses

The best location for each typology can vary depending on a number of factors including the place and its character, the street type and function, the width of the site and the sites location in relation to centres, neighbourhood hub's, parks and public transport. The below tables are a guide to demonstrate how these factors can be considered to determine the best location for each residential typology.



3.2.1 Suburban neighbourhood, Next generation neighbourhood and Urban neighbourhood precincts

Legend:

Street: Road Hierarchy

Laneway

Access Streets AND
Local Collector

District Collector

Sub-Arterial* / Arterial

Typology:

●Dwelling House (Traditional)	
●Dwelling House (Narrow)	
	house)
②Dwelling House (Terrace, row house	Multiple Dwelling (Low Rise
or plex)	Apartment)
⑤ Dwelling Unit	Multiple Dwelling (Medium Rise
-	Apartment)
◆Dual Occupancy (Traditional)	Multiple Dwelling (High Rise
	Apartment)
⑤ Dual Occupancy (Loft)	M Multiple Dwellings (Townhouses)

^{*}vehicle access must not be via Sub-arterial or Arterial roads.

²²**6**²**0**² − Must be adjoining or opposite public open space.

Primary Frontage	Suburban	Next Generation	Urban Neighbourhood
Width	Neighbourhood	Neighbourhood	Precinct
	Precinct	Precinct	7
>35m	040 ^{1,2}	040	0000
	046 ² 0 ²	0400	080890
	046 ² 0 ² 8 ¹ M ¹	086689 ¹ M	0860890M
	$046^{2}0^{2}8^{1}\mathbf{M}^{1}$	086689 ¹ M	6 9 890M
>30m	040 ²	040	0668
	046 ² 7 ²	0400	089890
	0000 ² 0 ² 0 ¹ M ¹	09467 89 ¹ M	0860890M
	046 ² 0 ² 3 ¹ M ¹	0846689 ¹ M	6 9 890M
>25m	0000 ²	000	06
	040 ²	0000	066689
	046 ² 0 ² 3 ¹ M ¹	0846689 ¹ M	086689M
	046 ² 0 ² 3 ¹ M ¹	09467 89 ¹ M	6 9 89M
>20m	06	06	0008
	06	06	0008
	06	088	08608
	06	088	06668
>18m	06	06	0
	09	00	08
	06	088	068
	00	086	0008
>12.5	00^{2}	000	00
	$00^{2}5$	000	00
	$00^{2}6$	000	000
	$00^{2}0$	000	00
>10m	$00^{2}6$	000	00
	$00^{2}0$	000	00
	$00^{2}5$	000	000
	00^{2}	000	00
>7.5m	0026	000	000
	0026	000	000
	$\mathbf{O}\mathbf{O}^2\mathbf{G}$	000	0088
	0026	000	000

⁹¹ – Must be within 400m walking distance of a neighbourhood hub or within 800m walking distance of a higher order or district centre.

Legend:

Street: Road Hierarchy

Neighbourhood street

Main street

Neighbourhood connector street

Typology:

⊙ Dwelling House (Traditional)	⑤ Multiple Dwelling (Plexes)
●Dwelling House (Narrow)	Multiple Dwelling (Terrace or row)
	house)
❷Dwelling House (Terrace, row house	Multiple Dwelling (Low Rise
or plex)	Apartment)
⑤ Dwelling Unit	Multiple Dwelling (Medium Rise
	Apartment)
Dual Occupancy (Traditional)	Multiple Dwelling (High Rise
	Apartment)
⑤ Dual Occupancy (Loft)	M Multiple Dwellings (Townhouses)

Primary	Next generation	Next generation
Frontage Width	neighbourhood	neighbourhood -
		Within 400m walking
		distance of a Local
		centre
>35m	0460	08878
	0800M	867890M
	0860M	69890M
>30m	0460	00000
	08460M	866890M
	08469M	60890M
>25m	0000	000
	08460M	86789M
	08469M	6089M
>20m	06	06
	088	8
	088	000
>18m	06	00
	088	86
	088	0890
>12.5	000	000
	000	288
	000	000
>10m	000	000
	000	288
	000	000
>7.5m	000	99
	000	000
2.	000	000

Legend:

Street: Road Hierarchy

Laneway
Access Streets AND Local Collector
District Collector
Sub-Arterial* / Arterial

Typology:

1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	
⊙ Dwelling House (Traditional)	Multiple Dwelling (Plexes)
●Dwelling House (Narrow)	
2Dwelling House (Terrace, row house	Multiple Dwelling (Low Rise
or plex)	Apartment)
⑤ Dwelling Unit	Multiple Dwelling (Medium Rise
· ·	Apartment)
Dual Occupancy (Traditional)	Multiple Dwelling (High Rise
	Apartment)
SDual Occupancy (Loft)	M Multiple Dwellings (Townhouses)

^{*}vehicle access must not be via Sub-arterial or Arterial roads.

• Must be within 400m walking distance of a Neighbourhood Hub or within 800m walking distance of a Higher order or District centre.

Primary Frontage	Transition precinct – All	Transition precinct –
Width	other areas	Morayfield South urban area
>35m	000	0878
	0460	080890
	086089 ¹ M	0867890M
	086089 ¹ M	60890M
>30m	000	0903
	0460	080890
	0846789 ¹ M	0866890M
	0846789 ¹ M	60890M
>25m	040	08
	0460	086789
	0846789 ¹ M	086989M
	0846689 ¹ M	6 6 89M
>20m	06	0698
	06	0000
	066	08008
+ L 1	086	06608
>18m	06	0
	06	0
	086	0€
	086	060
>12.5	000	00
	000	00
	006	000
	000	00
>10m	000	00
	000	00
	000	000
	000	00
>7.5m	000	000
	000	000
	000	0000
	000	000

3.3 Typologies described and illustrated

With a wide range of different densities provided for by the MBRC Planning Scheme and the different possibilities offered by architectural design and modern building construction, it can be difficult to visualise how these different residential typologies would look on the ground. The following is a series of illustrations and examples describing each residential typology.



Detached

Typical Height: 1-2 storeys
Typical Site 50% (excluding eves, sun shading devices,

sun shading devices, patios, balconies and other unenclosed structures)

Open Space: Backyard
Car parking Double garage,
tandem visitor space

Street Road Access Street / Hierarchy: Local Collector







Description

A single or two-storey dwelling that stands on a single lot and includes private open space. It is not attached to any other dwelling, but may be built to a side boundary.

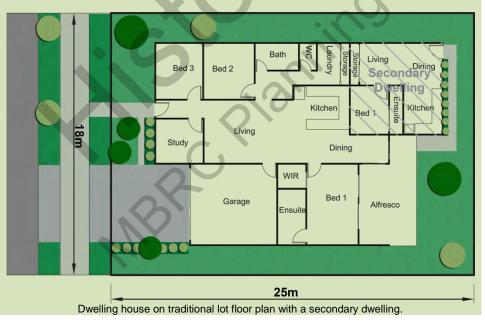
A Dwelling house may also contain a secondary dwelling. Secondary dwellings are designed and sited to appear as one with the primary dwelling house from the street and may be attached or detached from the primary dwelling. The secondary dwelling is subordinate to the primary dwelling and shares some facilities such as driveways, car parking and open space. This form of housing cannot be titled separate from the primary dwelling.

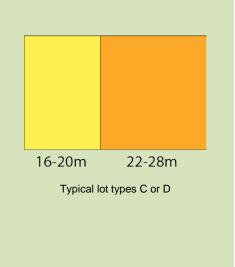






(Narangba)





Detached

Typical Height: Typical Site Cover: 1-2 storeys 50% (excluding eves,

sun shading devices, patios, balconies and other unenclosed structures)

Open Space: Backyard Car parking Configuration:

Garage, tandem or double where

access via laneway visitor space

Street Road Hierarchy: Laneway(Rear) / Access Street / Local Collector







Description

A single or two-storey dwelling that stands within its own grounds and includes private open space. It is not attached to any other dwelling, but may be built to one or both side boundaries.

A Dwelling house may also contain a secondary dwelling. Secondary dwellings are designed and sited to appear as one with the primary dwelling house from the street and may be attached or detached from the primary dwelling. The secondary dwelling is subordinate to the primary dwelling and shares some facilities such as driveways, car parking and open space. This form of housing cannot be titled separate from the primary dwelling.











Typical lot types B or A

Attached but established individually or as a group

Typical Height: Typical Site Cover:

1-3 storeys 50%-75%(depending on lot size and building height) Open Space: Backyard Single or tandem

Car parking Configuration: garage, tandem or

access via laneway or where 2 storey Street Laneway(Rear) Road Hierarchy: and Access Street / Local Collector

double where



Front of dwellings with no rear laneway access







Front of dwellings with rear laneway access

Description

Dwellings attached to other dwellings horizontally by one (for dwellings at the end of a row of terraces) or two common built to boundary walls. A terrace or row house may be a single, two or three storey dwelling with a ground level, own entry from the street or park and private open space. It is generally characterised by a consistent alignment along the street or park with adjoining dwellings. Terrace or row houses may share a driveway between two dwellings but do not generally share other facilities.

The best streetscape outcome is achieved when a terrace house has rear lane access for car parking so the street frontage is free of driveways and vehicle movements do not interfere with safe and efficient function of the street.

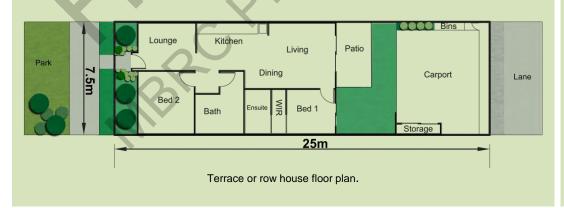
Tenure may vary for terrace or row housing; they may be established as free hold title with narrow lots built to boundary both sides or on a larger lot as a Multiple dwelling. Depending on the tenure, easements may be required to ensure the efficient construction and ongoing maintenance of this housing typology.

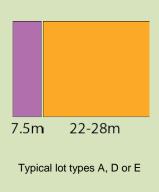


Front, adjoining park



Rear, adjoining laneway





Attached or Detached

Typical Height: 1-2 storeys Typical Site 50% - 60%

(depends on lot size and building height) Cover:

Backyard / Courtyard Open Space:

Car parking Configuration: Street Road Hierarchy:

Garage, carport Laneway(Rear) / Access Street / **Local Collector**





Description

Traditionally a single or two storey dwelling that is usually attached horizontally to one other dwelling by a common wall but may also be detached. The dwellings may share a driveway but generally all other facilities are separate. Generally the dwellings are equal in size and do not include a primary and subordinate dwelling. This form of housing may be titled separately after construction.











22-28m

Typical lot type D or E

3.3.5 Dual occupancy - Loft (incorporating a primary dwelling and a loft dwelling) 9

Typical Form

Attached or detached

Typical Height: Typical Site

Cover:

1-2 storeys 50%-75% (depends on lot size and

Open Space: building height)
Backyard /

(Fitzgibbon)

Courtyard / Balcony

Car parking Configuration:

Single garage per dwelling, accessed via laneway

Street Road Hierarchy: Laneway(Rear) / Access Street / Local Collector / District Collector / Sub-Arterial



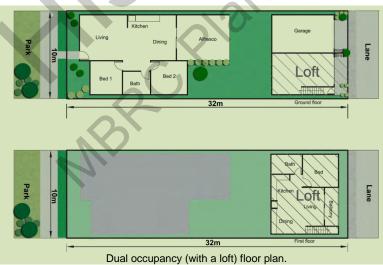
Description

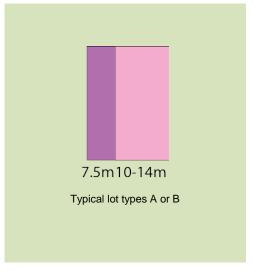
Dual occupancies can take on other forms commonly referred to as a loft or fonzy flat. These Dual occupancies consist of a single or two storey dwelling, being the primary dwelling, with one other smaller dwelling attached (horizontally or vertically). The dwellings may share a driveway but generally all other facilities are separate. In most cases, each dwelling faces a separate frontage, and are therefore typically serviced by a rear lane. This form of housing provides for a loft built above garages that provide a lockable car parking space for the primary dwelling, a lockable car parking space for the loft and a front door for the loft all accessed via the lane. This form of housing may be titled separately from the primary dwelling house after construction (via a building format plan) but requires specific design responses to ensure compliance with different building

Lofts require care in their location to ensure sufficient on-street visitor parking is available close by.

classifications.







Attached or **Detached**

Du/Lot: 3/4/5 units Typical Height: 1-3 storeys Title: Community 50%-75%

Typical Site Cover:

Open Space:

Car parking Configuration:

Courtyard Garage / carport / semi-basement / sleeved ground

level parking Street Road Access Street / Local Collector Hierarchy:



Ensuite

Plex floor plan.

Description

Small multiple dwelling buildings that are attached horizontally not vertically. Their design is highly variable and relates to site size and shape. Plex includes triplex (3 dwellings), quadplex (4 dwellings), and quinplex (5 dwellings), under standard or building format plan. Plexes typically have individual entries and driveways and have ground floor private open space.

This form of housing is ideally located on corner lots to reduce the negative impacts of multiple garage doors and driveways on the streetscape and on-street car parking.



30m+

Typical lot type E



Attached

Typical Height: 2-3 storeys Typical Site 50% - 75%

Cover: (depending on lot size and building height)

Open Space: Balconies

Configuration: Semi-basement / sleeved ground level / basements

Street Road Access Street /
Hierarchy: Local Collector /

District Collector

Note: Uses in this form may include; Retirement facility, Residential care facility, Rooming accommodation, Short term accommodation.





Description

Low rise apartments are up to three storeys in height and contain a group of dwellings which are attached vertically by a common floor/ceiling and are titled by way of a building format plan (units are located above or below each other). Access to each unit is usually through common property. Units are typically located above ground level or semi-basement car parking. Dwellings have their own private open space, typically in the form of a balcony or courtyard, but share facilities such as car parking and driveways and may contain communal open space. In the case of mixed use buildings, units are located above commercial or retail uses.







Attached

Typical Height: Typical Site Cover:

4 - 6 storeys 40% - 75% (depending on lot size

Open Space: Car parking Configuration: Balconies Semi-basement / sleeved ground level / basements

and building height)

Street Road Hierarchy: Access Street / Local Collector / District Collector / Sub-Arterial Road

Note: Uses in this form may include; Retirement facility, Residential care facility, Rooming accommodation, Short term accommodation.



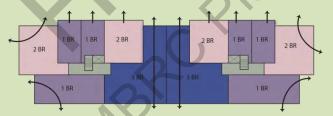




Description

Medium rise apartments are between four and six storeys in height and contain a group of dwellings that are attached by a common floor/ceiling/wall and are titled by way of a building format plan (units are located above or below each other). Dwellings have their own private open space, usually in the form of a balcony, but share facilities such as car parking and driveways and may have communal open space. Access to each unit is usually through common property. Units are typically located above basement or semi-basement car parking or in the case of mixed use buildings units are located above commercial or retail uses.





- Developments of ten or more dwellings should include a range of dwelling sizes, including studio, 1, 2 and 3+ bedroom dwellings.
- Dwelling diversification should be provided to:
 o provide a range of dwelling sizes in developments of ten or more dwellings;
 - provide different housing choice and support different lifestyles; create a diversity of occupants in a building which will contribute to more
 - successful community; provide more opportunity to create better layout by arranging different sizes of

 - apartments on one floor; create opportunity for a better apartment layout.



Attached

Typical Height: Typical Site

7 or more storeys 40%

Cover:

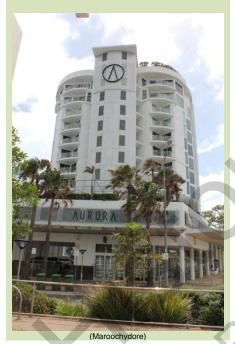
er:

Open Space: Car parking Configuration: Street Road Hierarchy: Balconies semi-basement / basements Access Street / Local Collector / District Collector /

Sub-Arterial Road

Note: Uses in this form may also include: Retirement Facility, Residential Care Facility, Rooming Accommodation, Short Term Accommodation.









Description

High rise apartments are seven storeys in height or greater and contain a group of dwellings which are attached vertically by a common floor/ceiling/wall and titled by way of a building format plan (units are located above or below each other). Dwellings have their own private open space in the form of a balcony, but share facilities such as car parking, driveways and communal open space. Access to each unit is usually through common property. Units are typically located above basement car parking or in the case of mixed use buildings units are located above commercial or retail uses.



30m+

Typical lot type E

3.3.10 Multiple dwelling – Townhouses and managed communities M

Typical Form

Attached or Detached

Typical Height: 1 – 3 storeys
Typical Site 50% - 75%
Cover: (depending on le

/er: (depending on lot size and building height)

Open Space: Courtyard / balconies

Car parking Garage accessed Configuration: via internal

driveway

Street Road Laneway(Rear) /
Hierarchy: Access Street /
Local Collector

Note: Uses in this form may also include: Retirement Facility, Residential Care Facility, Relocatable Home Park, Rooming Accommodation, Short Term Accommodation, Tourist Park.





(Brightwater)
Opposite public open space

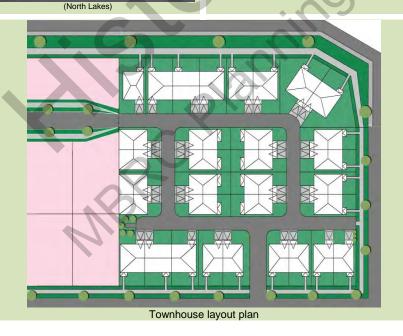


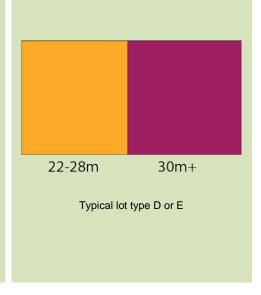
Description

These forms of development include 6 or more (5 or less would be a Plex) dwellings, either attached or detached, and usually have a number of shared facilities from open space and recreational facilities to utilities such as driveways and waste facilities.

Dwellings are generally titled by way of a building or standard format plan or other forms of legislative management schemes.







4. Building form and design

The design of buildings should be appropriate to the place in which they preside. Built form provisions relating to height, setbacks and site cover are utilised to achieve particular design outcomes that enhance local character.



(North Lakes)

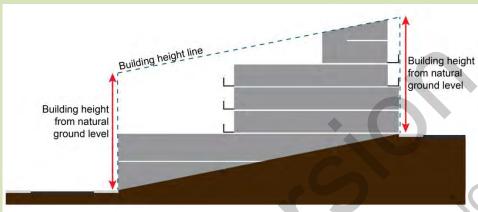
4.1 Character context

The Moreton Bay region is extensive and encompasses a range of established urban, rural and coastal areas as well as newer expanding areas. Buildings can be designed to acknowledge, interpret and express their context in order to enhance local character and identity. Character is expressed through the thoughtful interpretation of contextual design themes of the location such as the coastal or traditional urban buildings, the massing and building form, geometry of building elements, roof lines, balcony scale and treatments, choices of materials and colours.

4.2 Building height

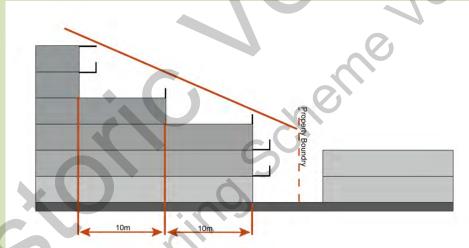
The following diagrams illustrate key features related to the performance outcomes for residential building height.

Buildings and structures have a height that responds to topographic features of the site, including slope and orientation.



Building height for slopes from front to rear.

Buildings and structures have a height that responds to the height of development on adjoining land, where contained within another precinct or zone.

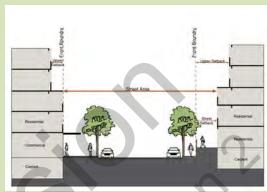


Consider transitional building height when adjoining land in a different zone. For transitioning between zones, sites directly bounding a zone with conflicting building height allowances will be required to transition heights on site by a rate of 1 storey per 10m into the site and then 2 storeys for a further 10m. Where a road separates conflicting zone heights, or is proposed between conflicting zone heights the road sufficiently creates the transition.

4.3 Setbacks

The following diagrams illustrate the residential setbacks detailed in Table 6.2.6.2.3 – Suburban neighbourhood precinct, Table 6.2.6.3.3 – Next generation neighbourhood precinct and Table 6.2.6.4.3 – Urban neighbourhood precinct of the General residential zone code.

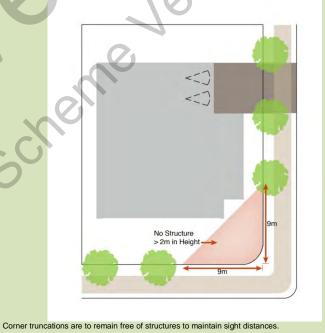


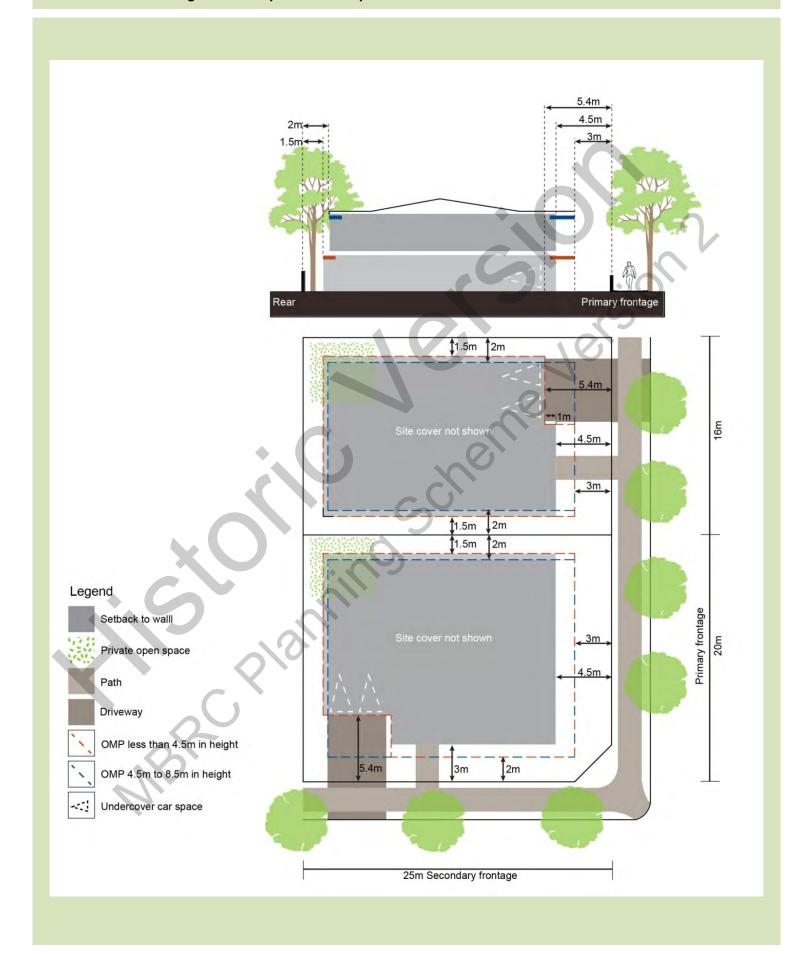


- On sites with commercial uses at ground floor, no ground floor setback from the street should be
- created.
 Upper level setbacks above podium height should contribute to the creation of a consistent podium height and streetscape character.

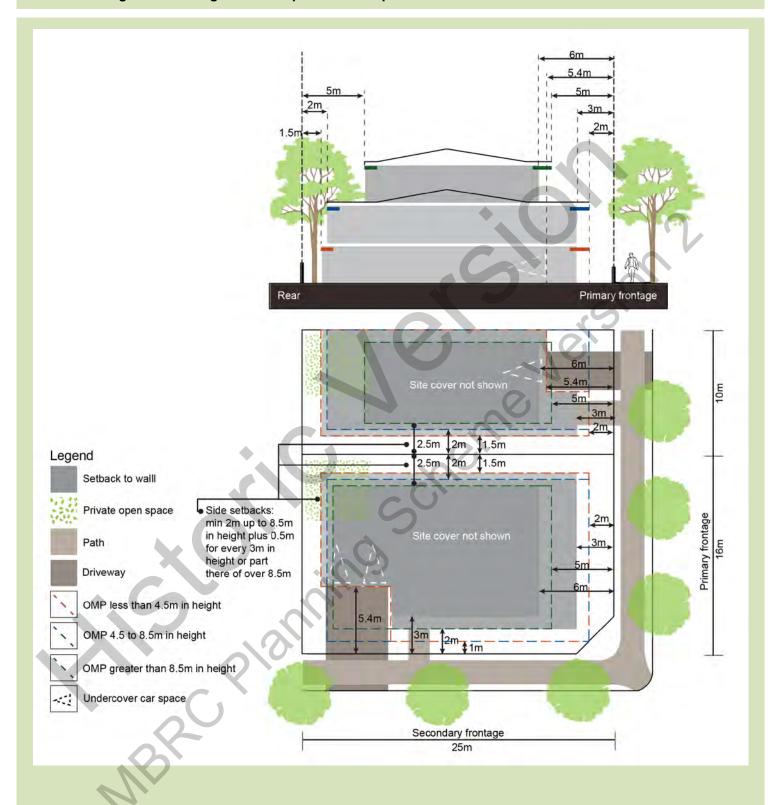


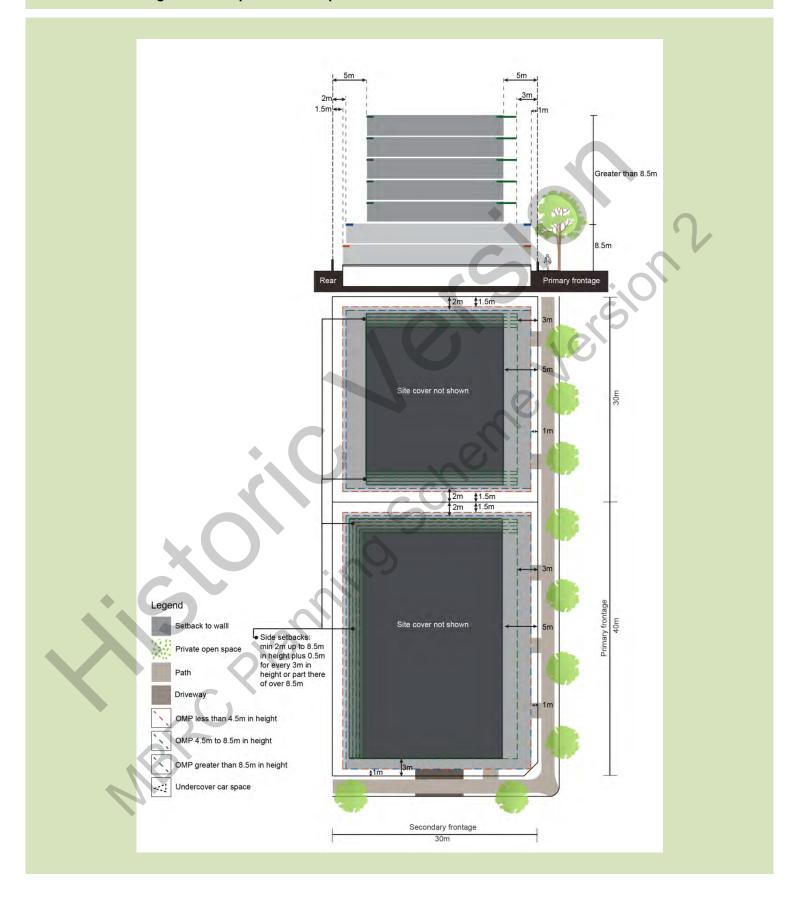
(Kawana)
Ground floor awnings, architectural features, sunshades, screens and artworks may be constructed within front setback areas, where they will improve architectural outcomes and articulation.





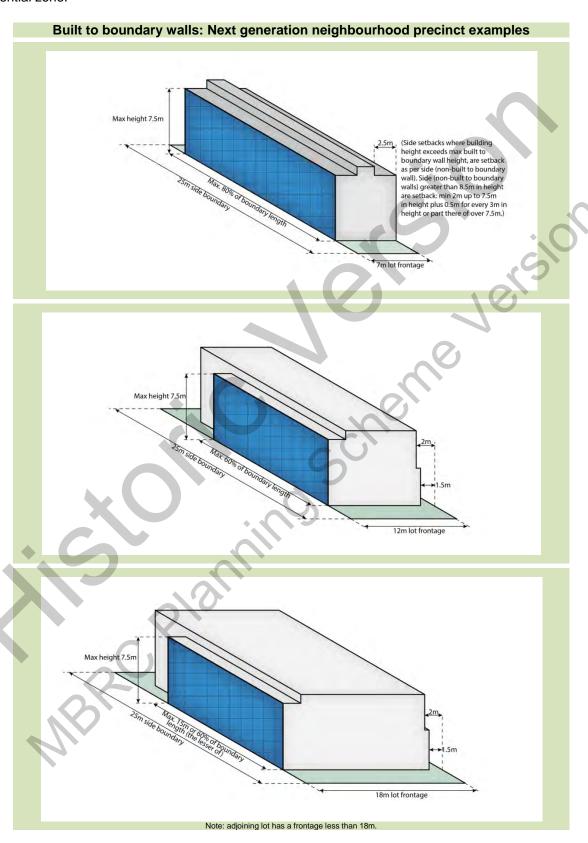
Setbacks: Next generation neighbourhood precinct example

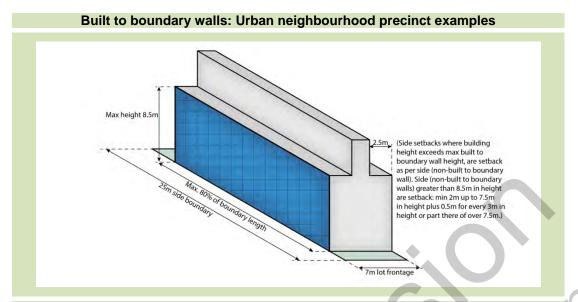


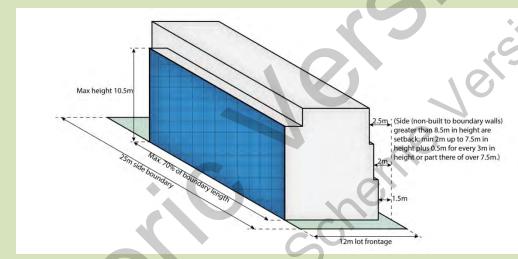


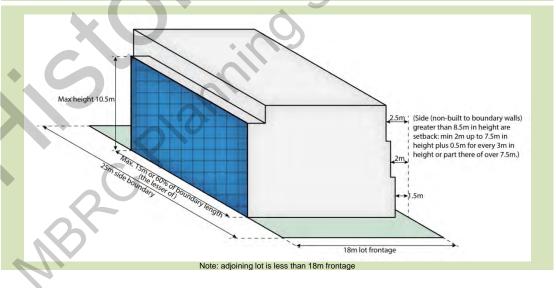
4.4 Setbacks - Built to boundary walls

The following diagrams illustrate the built to boundary length and heights detailed in Table 6.2.6.3.4 – Next generation neighbourhood precinct and Table 6.2.6.4.4 – Urban neighbourhood precinct of the General residential zone.



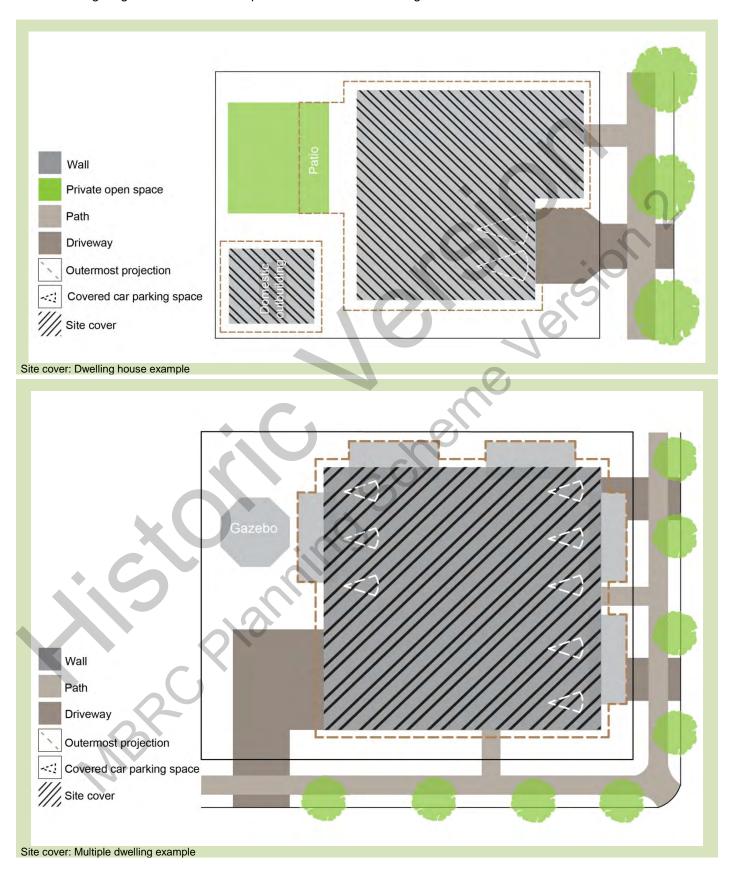


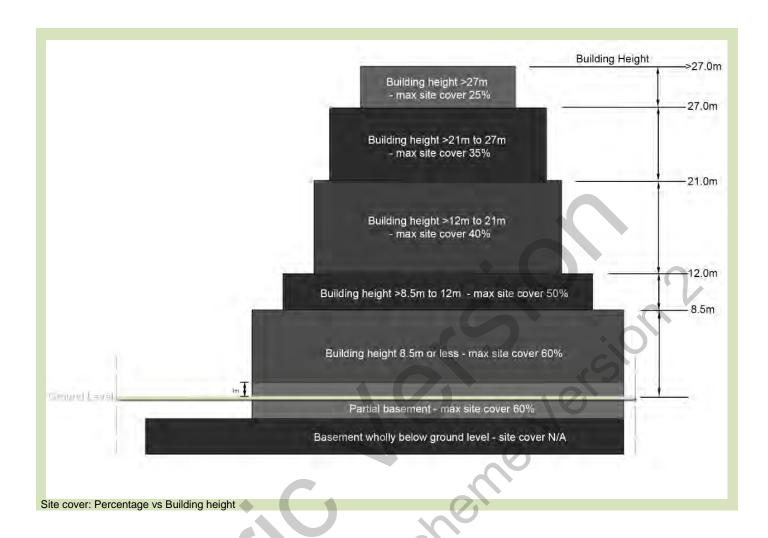




4.5 Site cover

The following diagrams illustrate those parts of a residential building included in the calculation of site cover.





4.6 Dual occupancy dispersal

Dwelling dispersal, described previously as 'salt and peppering' is achieved in the planning scheme through provisions in the Reconfiguring a lot code requiring different number of lot types depending on the zone or precinct and restricting the number of lots of the same type in a row. While this will be effective in the development of new areas of the region there are numerous established areas within the region that have the potential to result in the clustering of one housing typology unless additional design controls are applied. For example Dual occupancies (traditional) in the Suburban and Next generation neighbourhood precincts. The following diagrams illustrate different measures that can be used to ensure the appropriate dispersal of this dwelling type.

Example: Suburban neighbourhood precinct



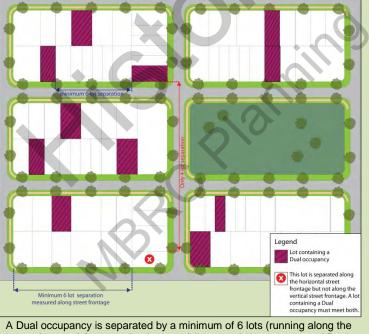
A Dual occupancy is not located within 200m (measured along the street alignment) of a lot containing an existing or approved dual occupancy.

Example: Next generation neighbourhood precinct



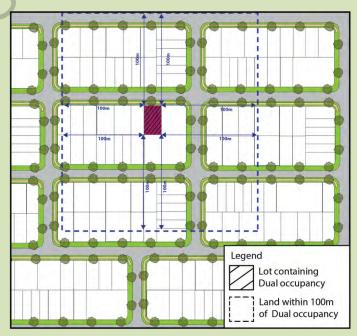
No more than 20% of sites within a block contain an existing or approved Dual occupancy. Dual occupancies should be separated by at least 1 lot not containing a Dual occupancy.

Example: Next generation neighbourhood precinct



A Dual occupancy is separated by a minimum of 6 lots (running along the street frontage) from another lot containing an existing or approved Dual occupancy.

Example: Next generation neighbourhood precinct



A Dual occupancy is not located within 100m (in all directions of an existing or approved Dual occupancy.

5. Streetscape

It is important to ensure that residential development contributes towards attractive streetscapes and security for occupants and passers-by. For these reasons development should front streets and public places providing casual surveillance and activity, whilst ensuring adequate privacy for occupants. The following diagrams illustrate the principles of integrated streetscapes, casual surveillance, screening and building appearance that contribute to attractive streetscapes.



(North Lakes)

5.1 Integrated development

Whether in a new greenfield subdivision or infilling into an established residential neighbourhood, ensuring that new dwellings are integrated into the streetscape is critical. Development will be designed to maintain and enhance connectivity with the neighbourhood through orientation of buildings to the street and other public spaces and pathways linking local destinations.

Multiple dwellings



(North lakes)
High fences and gated communities are avoided. Dwelling address streets with a front door, pedestrian access and landscaping to enhance the streetscape. Private open space areas are located to the side or rear where privacy can be provided away from the



(North Lakes)
Townhouse style Multiple dwellings can ensure integration
through ensuring dwelling address the external streets and
public spaces, and providing pedestrian connections that link to
the wider street network.



(Maroochydore)
Pedestrian and cycle pathways and links are included in between dwellings as part of a town house development or other managed community. Links should provide the most direct connection from the development to parks, centres or neighbourhood hubs.



(Chermside)
Apartment buildings ensure integration with the streetscape through clear entry points, street number and landscaping.



(Brightwater)
Townhouse style Multiple dwellings should minimise the extent of boundary fencing adjoining streets and public spaces to maintain connectivity, sightlines and surveillance.

Individual dwellings and subdivision



(Maroochydore)
Pedestrian and cycle pathways and links are included in
between lots. Links should provide the most direct connection
from the development to parks, centres or neighbourhood hubs.



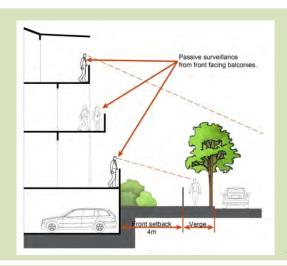
(Maroochydore)
The front door and pedestrian entry as well as habitable room windows should face all primary frontages (whether streets or public open space).



(Maroochydore)
Front door, low fence or garden, pedestrian gate and path to front door all face the primary frontage.

5.2 Casual surveillance

Through building design we can improve the safety of streets and neighbourhoods. Designing dwellings to orientate living areas and active frontages toward streets and other public places increases the level of casual surveillance. In designing dwellings with living areas orientated to public places, we need to consider the privacy of residents. Clever building and landscape design can be used to provide adequate levels of privacy while ensuring casual surveillance of public spaces.

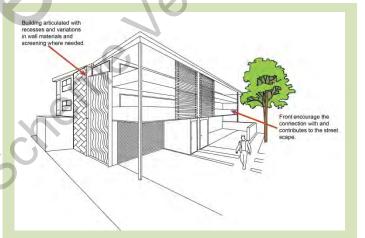




(Maroochydore)

If the proposal is adjacent to a park or other public space, the space should be substantially fronted by dwellings, whilst providing clear separation between public and private land and provide outlook for as many dwellings and other occupancies as practicable whilst avoiding a sense of privatisation of the public park







(Maroochydore)

- Building frontages with residential uses at ground floor should:

 provide individual entry doors to ground level dwellings;
- provide privacy by elevating the ground floor approx. 0.5 to 1m above street level or provide landscaping in front setbacks;
- use permeable fences to a maximum height of 1.5m;
- use landscaping to cover semi-basement ventilation;
- locate less private habitable rooms, such as living room, home office, study or kitchen to the street whenever possible

5.3 Screening - fences and walls

Screening and fencing should complement the streetscape character and help define public from private places. Screening and fencing should provide privacy to residents, without impeding casual surveillance of streets and other public places.

Good examples



Example: 0% transparent, 1.2m high

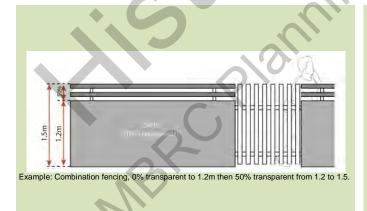


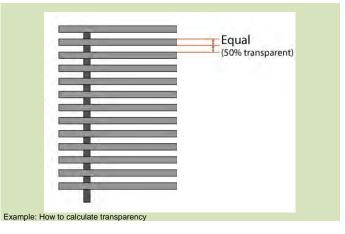


(Maroochydore) Example: 85% transparent, 1.8m high



(Maroochydore) Example: No front fencing, 1.8m high fencing at the building line







(Maroochydore)
Where solid fences are unavoidable they should include variation in material, reduce flat surfaces and incorporate landscaping in front to reduce visual dominance and assist in the prevention of graffiti.



(Maroochydore)

Combination of solid and transparent fencing with landscaping to define private area

Bad examples



(Maroochydore)
Fencing adjoining pedestrian connections and pathways should maintain casual surveillance.
A combination of solid and transparent fencing is recommended to provide safety and security while maintaining surveillance.



(Maroochydore)
Solid front fencing that is higher than 1.2m dominates the streetscape. The example above would be improved by bringing the building forward, locating private open space to the side or rear and having a solid fence not exceeding 1.2m in height with a pedestrian gate.



(Kelvin Grove)
Where a retaining wall is unavoidable the height of the retaining wall and the fence should combined and not exceed maximum fencing requirements. Additionally, the fence can be set back to allow low maintenance landscaping on top of the retaining wall in front of the fence.



Solid front fencing that is higher than 1.2m dominates the streetscape.

5.4 Building appearance

How a building looks when viewed from an adjacent street or other public area is the most evident feature of how well a building integrates into its streetscape. Buildings should be designed to:

- incorporate architectural features into the building façade at street level to create human scale;
- promote identity and diversity between adjacent dwellings;
- enable individual dwellings to be identified and directly accessible from public streets and communal areas:
- visually integrate with the intended character of the precinct through appropriate design and materials;
- avoid blank walls (excluding built to boundary walls) through articulation and architectural treatments to create visual interest;
- include roof forms that provide visual interest to both the building and the skyline and effectively screen service structures, plant and equipment from view of the street and adjoining buildings;
- provide a design that enables permeability between buildings;
- create attractive backs and sides of buildings where visible from public spaces;
- ensure domestic outbuildings do not dominate the street frontage and do not have a negative impact on the streetscape character;
- ensure that tall buildings provide architectural variation through a distinct top, middle and base section.



(Maroochydore)
Servicing and utility elements (security grills/screens, car park entry doors, shading and screening structures, signage, drain pipes, air conditioning units, lift over-runs, plant and communication equipment, and other building services) should be screened or designed as part of the building.



(Maroochydore)

Building bulk and blank walls should be reduced through the use of architectural features, recesses and projections, balconies and variations in materials and finishes.



Windows and balconies should overlook the street and other public places.



(Redcliffe)
Blank walls fronting the street should be avoided.



(Chermside) High buildings provide vertical articulation through a distinct top, middle and base section.



- (Maroochydore)

 Garages should be setback at least 1m behind the main building
- Car ports and domestic outbuildings should not be located within the front setback.

 For 2 storey buildings the garage should be recessed back from the second storey.



- Facades should be designed with an appropriate scale, rhythm and proportion, which respond
- to the building's use and the site context.

 The design of buildings and the materials and finishes used should respect the existing or future character of the area.







- (Maroochydore)

 Dwellings include elements (colours, materials and finishes) and features (roof forms, balconies, porticos) that distinguish one dwelling from another.

 Pedestrian entries should be easily identifiable.



(Maroochydore)

- Roofs include pitches, gables, skillions or other features.

 Variation in colours textures and materials, recesses projections lines (horizontal, verticle, angular).

6. Site planning and design



(North Lakes)

6.1 Site area

When looking for an allotment to develop or designing development on a particular allotment, consideration needs to be given to all the elements that take up land area and will ultimately influence the size of the allotment needed. Elements such as vehicle access; manoeuvring and parking; deep planting areas and setbacks; bin enclosures; outside drying areas and private open spaces all need to be integrated into the design of buildings and will impact on the potential yield on a site.



It is important that the development is located on a lot which has an area and dimensions capable of accommodating a well-designed and integrated building and associated facilities including:

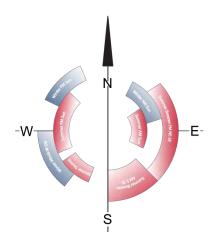
- a. vehicle access, parking and manoeuvring areas;
- b. efficient and useable communal (for Rooming accommodation or Retirement facility with dependant living) and private open space areas;
- c. deep planting zones and landscaping;
- d. adequate buffering to adjacent properties.

The following table indicates an indicative minimum area and minimum primary road frontage, depending on the overall height of the proposed building.

Height of building	Minimum lot area	Minimum primary road frontage
12m or less	800m ²	20m
>12m - 21m	1000m ²	25m
>21m - 27m	1600m ²	30m
>27m	2400m ²	35m

6.2 Private open space

The provision of private open space in any residential development is critical, particularly in a sub-tropical climate, as found in South-East Queensland.



The location and orientation of private open space is a critical element of good site planning. From mid-Autumn to mid-Spring, the sun tracks a path through our northern hemisphere making the southern sides of dwellings, shaded, cold and uninviting areas. Locating private open space and by association living areas on the northern side of buildings, improves access to warmth and light during the coolest half of the year.

Private open space also needs to be carefully located to provide a usable and functional private area for the user. With dwelling diversity comes a variety of private open space options, no longer is the backyard the only or even the best solution. Ideally the primary private open space area for a ground floor dwelling is located away from public areas to maintain privacy. This does not preclude dwellings from containing small front gardens etc. as these contribute greatly to the amenity of streetscapes.

While front yards have the ability to contribute greatly to casual surveillance and neighbourly interaction there is also a risk that site specific solutions implemented by an owner or tenant (e.g., high solid fencing, reeds etc.) can more often than not, have an adverse impact on streetscape amenity and casual surveillance.

Above ground dwellings are able to implement dwelling or site specific solutions to ensure privacy while maintaining casual surveillance. Therefore, the private open space areas for above ground dwellings are encouraged to adjoin and address streets and public areas.

Ground level dwellings Example: Multiple dwelling, townhouse







Above ground dwellings



(Marouchydub)

Provide balconies with operable screens, juliet balconies or operable walls/sliding doors with a balustrade in specific locations where noise or high winds prohibit other solutions e.g. along rail corridors, on busy roads or in tower buildings.



(Maroochydore)
Sun screens, pergolas, shutters and operable walls should be utilised to control sunlight and wind.



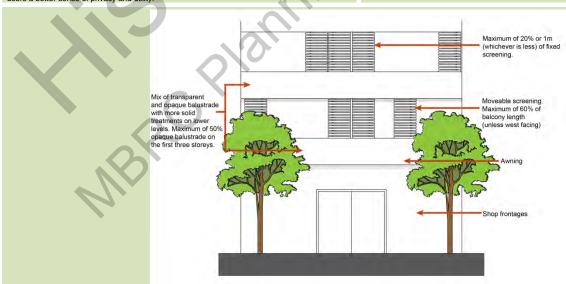
Where balconies are used to house equipment and plant such as clothes drying, air conditioners etc. this equipment should be screened.



(Maroochydore) Balconies that are partly recessed rather than projecting fully beyond the line of the building give users a better sense of privacy and utility.



(Maroochydore)
Solid balustrading can provide privacy to balconies whilst also facilitating surveillance.



6.3 Communal facilities

Communal facilities can play an important part of some residential uses. Where provided, communal open space should be functional and usable and located to reduce impacts on the amenity of other users of the site and adjoining properties.





(Taringa)

Communal open space should be easily accessible from the dwellings and other occupancies it serves and of a size and design suitable for intended users.









6.4 Car parking

Car parking is an essential feature of any residential development, however car parking areas that are poorly designed or located can dominate the streetscape resulting in inactive spaces at the front of dwellings and diminish the attractiveness of the street. To combat the potential impacts, site planning and building design should consider the following elements:

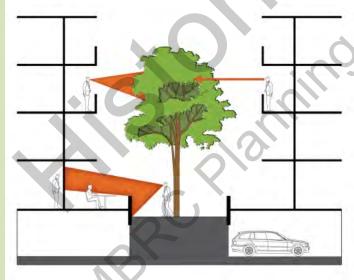
- · garages should not dominate the streetscape;
- for apartments and townhouses:
 - o parking spaces gain access via internal driveways;
 - o car parking areas are located behind the front of the building;
 - o semi-basement car parking should be considered in residential areas, allowing a raised ground floor for privacy and a naturally ventilated basement.



(Maroochydore)
Garages and car ports are to be setback from the frontage to reduce the visual dominance on the streetscape and allow tandem spaces for cars



(Maroochydore)
Garages adjoin a lane ensuring they do not dominate the streetscape.



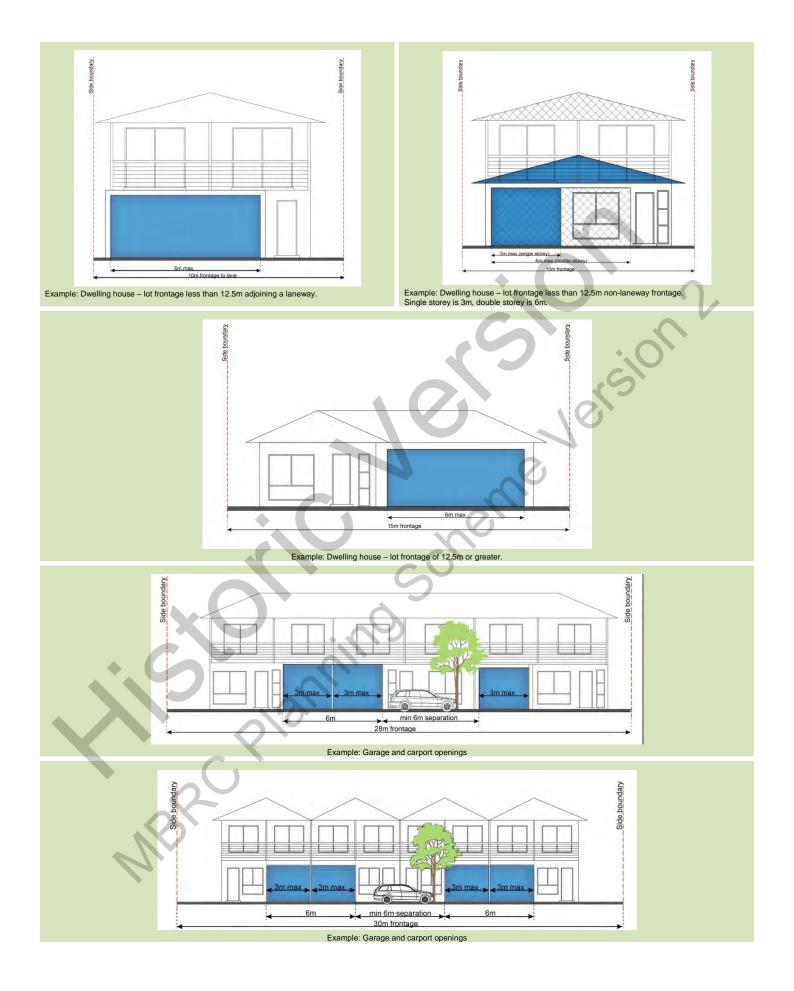
- Semi-basement car parking should be considered in residential areas, allowing a raised ground floor for privacy and a naturally ventilated basement. Landscaping should be used to screen the semi-basement.
- Basement car parking should not interfere with deep planting.



(Cotton Tree – side view. Vehicle access is from the secondary street frontage)

- For Multiple dwellings:

 at grade parking areas should be avoided. Any at grade parking should be located at the rear or side of the site, away from primary frontages and include elements to reduce noise, and lighting impacts on dwellings within the site and adjoining properties;
- car parks and vehicle access ways should be located at least 1.5 metres from the windows of habitable rooms. This setback may be reduced to 1 metre where there is a fence at least 1.5 metres high or where windowsills are at least 1.4 metres above the access way;
- where provided visitor parking is to be discernible from the street; clearly signposted; not located behind a security barrier and not placed in the deep planting zones within front setback areas.





(Suttons Beach)
The above example utilises a combination of landscaping and solid rendered balustrade to reduce the visual dominance of a protruding basement.



(Margate)
The above example uses an architectural feature forming part of the building as a way of screening ground floor parking areas.



(Clontarf - Angled side view to see screening treatments)

Mail collection, landscaping and an architectural feature forming part of the building all work together in this example to reduce the visual dominance of ground floor car parking areas.



(Clontarf - Front on view to see screening treatments in effect)
Mail collection, landscaping and an architectural feature forming part of the building all work
together in this example to reduce the visual dominance of ground floor car parking areas.



(Margate - Angled side view to see dwellings adjoining the street)
The above example includes dwellings that adjoin and orientate towards the street with ground

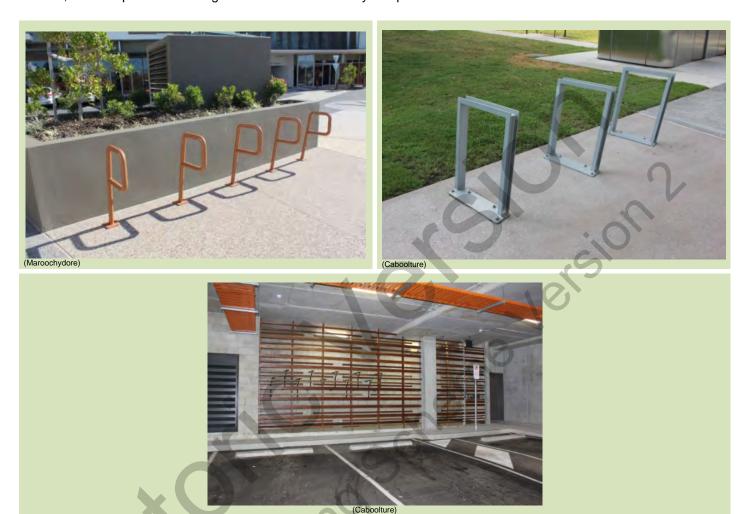
floor car parking located behind.



(Margate - Front view to see ground floor parking behind dwellings)
The above example includes dwellings that adjoin and orientate towards the street with ground floor car parking located behind.

6.5 Cycle parking

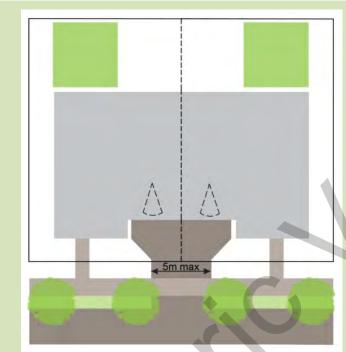
Encouraging the use of alternative transport modes such as cycling is important. Facilities should be provided in new residential developments that make it easy for residents and visitors to choose to use bicycles. The integration of secure, weather protected storage areas close to the entry/exit points of a site make it convenient for users.



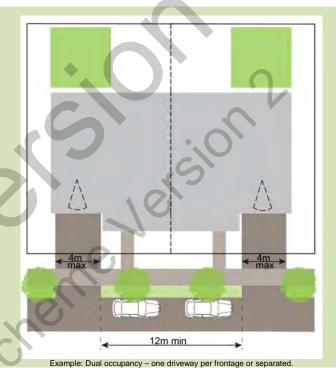
6.6 Access and driveways

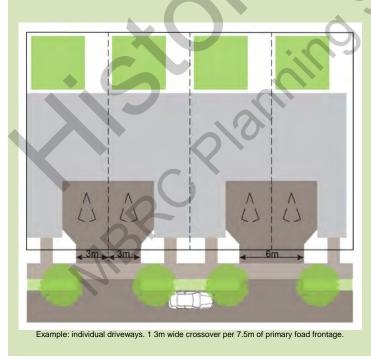
Like car parking, access and driveways are an essential element of any residential development, however if poorly designed or located they dominate the streetscape with excessive hard stand areas, prevent on-street parking, impact on the safety of pedestrians and walkable neighbourhoods and have a negative impact on traffic flows and adjoining residential uses. Access and driveways should be designed to:

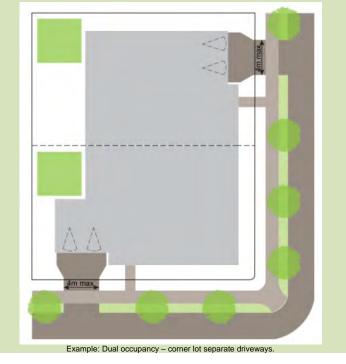
- be consolidated, shared or paired up whenever possible;
- where not paired up driveways should be separated to allow adequate space for on-street parking;
- not locate excessive hardstand areas within the front setback;
- driveways should be setback from side are rear boundaries or include screening and buffering to adjoining residential activities.

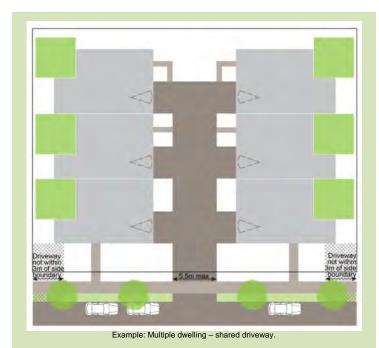


Example: Dual occupancy - shared driveway











- Cotton Tree side view. Vehicle access is from the secondary street frontage). Development:

 ensures any vehicle movement or vehicle parking areas along the side or rear boundary are acoustically screened from adjoining dwellings;

 provides a 3m wide vegetated buffer next to any movement or parking areas along the side or
- rear boundary; is separated from habitable windows to minimise noise and fumes disturbance;
- ensures that a hardstand or maneuvering areas situated on or above ground level (e.g. ramps) are located to minimise noise disturbance;
- incorporate different materials, textures and colours to driveway pavements to break up large hard stand areas, and highlight the priority of pedestrian footpaths.





(North Lakes)
Multiple dwelling unit identification display board for visitors and emergency vehicles.

6.7 Landscaping

The landscaping within a development provides many functions; therefore the design of landscaping on site needs to be carefully considered to:

- ensure it integrates with the overall site layout and building design;
- reduce the urban heat island effect and enhance and improve micro-climate conditions;
- contribute to local biodiversity;
- consider the retention of existing mature vegetation and planting of large trees on the site;
- integrate water sensitive urban design.









(Chermside)

Basement car parks that protrude above natural ground level are setback behind screen landscaping, <u>not</u> just street trees as shown above.



(Chermside)
Greening streetscape e.g Street trees



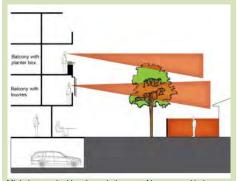
(Caboolture)
Greening streetscape e.g Planter boxes



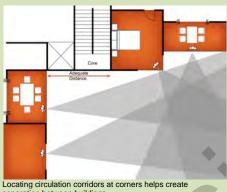


6.8 Privacy

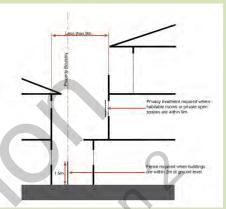
Dwellings should be designed and located on site to limit views into the secluded private open space and habitable room windows of dwellings within a development and on adjoining properties.



Minimise overlooking through the use of louvres and balcony planter boxes.



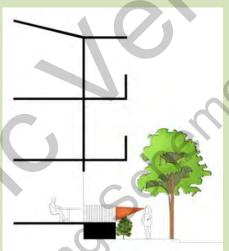
separation between buildings.



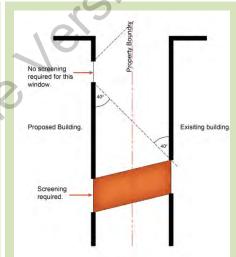
Habitable room windows, balconies, terraces, decks and patios should be designed and located to avoid direct views into secluded private open space and habitable windows of existing dwellings, within a horizontal distance of 9m.



(Maroochydore) Solid balustrading for lower level apartments increases privacy while maintaining casual surveillance.



Raised terrace and vegetation screen provides privacy for units adjoining public or communal spaces.



Offsetting adjacent habitable room windows and balconies



(Maroochydore) Screening can be used to direct specific views



Fixed screening over windows is <u>not</u> a desirable solution to overlooking as shown above. Windows should be offset or have an appropriate separation distance.



design solutions such as louvered screens with specific views, operable or fixed vertical louvres or planter boxes along the edge of balconies should be utilised to limit sight lines. Obscure glazing is the least desirable screening method for

6.9 Subtropical design

Development is designed to consider sub-tropical climate through maintaining an open and permeable built environment maximising prevailing breezes, connect indoors and outdoors in an integrated design, incorporating landscaping and architectural features to provide shelter and reduce the impacts of climatic conditions including sun, wind and rain.



(Cotton Tree)
Breezes are blocked when screens are not carefully designed. Adjustable screens can block sun when needed and provide privacy for both occupants and neighbours.

Instead of blocking wind movement louvres or other window systems that hinge or pivot should be incorporated to allow full use of the available opening. They can also act as wind scoops, improving ventilation and air flow regulating wind speed and direction



(Varsity Lakes) Houses and gardens should coexist. Plantings between buildings provides visual privacy and porous ground surfaces absorb rainfall and do not obstruct overland flow of water.



Balconies that are too small and too exposed do <u>not</u> support outdoor living as shown above. Balconies should be deep enough to gather around a table.



Dwellings achieve effective transition from indoor to outdoor spaces with large windows and doors opening onto shaded verandahs and patios.



Allow large shade trees to flourish in both private and public spaces. Preserve significant shade trees as valuable community assets. Promote longevity of trees by providing sufficient unobstructed growing space above and below

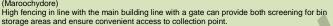


(Kawana) Avoid high solid fences that block breezes.

6.10 Site services and utility areas

Site services and utility areas should be designed and located to ensure they do not dominate or visually clutter the streetscape, are easily maintained, accessible, fit for purpose and attractive and minimise the negative impacts of site services (e.g. noise, safety, visual impacts etc.) on the amenity of public areas and other dwellings.









(Maroochydore)
Utilities such as bin storage, booster pumps and electrical transformers should orientate along internal driveways, perpendicular to the street frontage.



(Maroochydore)
Services such as fire hydrants and electrical transformers should not be visually prominent at the streetscape. Screening and landscaping should be utilised to reduce the visual dominance utility areas have on the streetscape and adjoining sites.



(Maroochydore) Semitransparent screening combined with landscaping can reduce the visual dominance of utilities while maintaining their visibility.



(Kawana)
Screening of stairwells, and air
conditioning units whilst maintaining
ventilation.



(Kawana)
Screening of stairwells, and air
conditioning units whilst maintaining
ventilation.



(Maroochydore)
Screening of air conditioning units can add visual interest to the building.



(Chermside)
Mail boxes should be protected
from weather, located close to the
building entry so as to not create
conflict between pedestrians and
vehicles. Mail boxes can achieve
good streetscape outcomes where
they strengthen the sense of
address for the building and activate
the street frontage.



(Kawana)
Screening of roof top structures needs to be considered.

6.11 Lighting

Lighting is to maximise safety and minimise adverse impact on residents and neighbours.



6.12 Waste management

The management of waste includes functional storage areas that do not dominate the streetscape. Storage areas can be co-located in garages, allocated car parking areas or incorporate into building design. Storage areas are not contained within dwellings.

Bin storage - Individual bins



(Maroochydore)
High fencing in line with the main building line with a gate can provide both screening for bin storage areas and ensure convenient access to collection point.



(Maroochydore)
High fencing in line with the main building
line with a gate can provide both screening
for bin storage areas and ensure
convenient access to collection point.



individual bins are not to be stored in an enclosed structure (e.g. garage) unless ventilated, are able to be moved from storage area to the collection point without travelling over steps or through habitable rooms and are screened from public places.



(North Lakes)
Screened bin areas must be provided and carefully designed for Dwellings on narrow lots.



(Fitzgibbon)
Screened bin areas should be provided in lanes.

Bin storage - Shared bins



(Chermside)
Bin storage areas are to be screened and aesthetically treated to not be overbearing or visually dominate the streetscape.



(Maroochydore)
Bin storage areas are not located adjacent to living and eating areas of any residence.



(Maroochydore)
Bin storage areas are to be of a sufficient size to allow for manoeuvring and cleansing.



(North Lakes) Accessible to the collection point.





6.13 Storage

Adequate storage facilities should be provided for each dwelling.





(Maroochydore) Storage provided within car parking areas should be easily accessible.



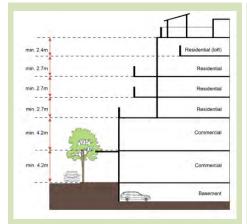
(Maroochydore)
Storage space does not include bicycle parking and should be provided in addition to the required bicycle parking space.



(Maroochydore)
Storage above car bonnets should not be the only storage provided for occupants.

6.14 Adaptable development

Land within or in proximity to a centre and public transport node is efficiently used to capitalise on the activity generated by the centre and transport not for retail and commercial purposes and to contribute to the character and activity of the area.







(Maroochydore)
Awnings and street furniture can be added once the ground floor is converted to a non-residential use.



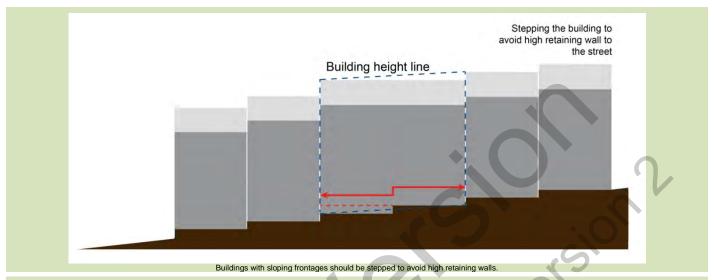




Mixed use buildings should open out onto public spaces e.g. streets, open space or plazas etc.

6.15 Sloping land

The development of sloping sites should avoid cutting and filling as it destroys the local ecology and reduces opportunities for natural ventilation. Development should utilise alternative dwelling types (e.g. terrace housing) and step the building to respond to a sites topography rather than excessive cutting and filling.









6.16 Laneway development

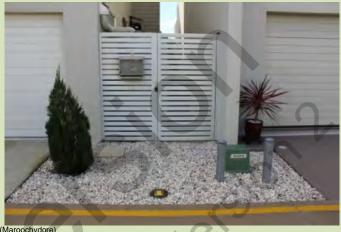
Development adjoining a laneway should be designed to ensure good levels of passive surveillance into, along and through lanes and a reasonable level of amenity and landscaping. Where front door access to a loft apartment is via the laneway, building design should also considered passive surveillance, amenity and landscaping, easy access to visitor car parking accommodation on surrounding streets, pavement treatments, lighting and adequate sight lines for vehicles and pedestrian.





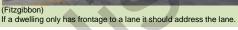
- (Maroochydore)

 All vehicle access is to be via the laneway.
 - Deep laneway lots are able to accommodate additional tandem car parking.



(Maroochydore)
Screened garbage bin storage areas with fencing and gates to reduce the dominance of garbage bins on the lane.







(Fitzaibbon) Landscaping is maximised within the lane to break up the dominance of garages and delineate









(Maroochydore) Front – adjoining park





(Maroochydore)
Front – adjoining park
Dwellings should face the non-laneway frontage



(Maroochydore) Rear – adjoining lane Lanes should reduce areas for concealment.



(Fitzgibbon)
Front – adjoining park and street beyond



7. References and resources

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