URBAN DESIGN GUIDELINES FOR DEVELOPMENTS WITHIN ORCHARD PLANNING AREA

As Singapore's premier lifestyle and shopping belt, Orchard Road is a vibrant and exciting street lined with shopping malls, hotels, and food and beverage offerings. The grand tropical boulevard running through the district has long been a people magnet, always bustling with vibrant street life.

This set of guidelines aims to guide the physical development of the area to ensure that individual buildings contribute to, and strengthen the planning vision for the area and create an attractive and pedestrian friendly physical environment.

Innovative designs that do not fully confirm to the guidelines or standard building typologies can be considered, as long as these designs can fulfil the planning and Urban Design intentions, subject to URA's evaluation of the detailed proposal.

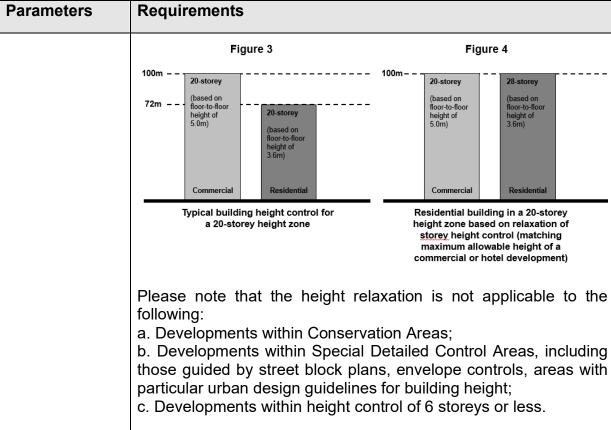
Gazetted National Monuments and conserved buildings are subject to specific preservation and conservation guidelines respectively, which will take precedence over the guidelines below.

The planning parameters and urban design guidelines are:

Parameters	Requirements
Broad Positioning & Land Use Master Plan	Orchard Road is predominantly a lifestyle and retail belt and is mainly zoned Commercial to support a mix of shops, offices and hotels. There are also several sites zoned for Hotel use to enhance the attractiveness of Orchard Road as one of Singapore's key tourist destinations.
<u>Appendix 1</u> : Boundary Plan	This is supplemented by a number of Residential and mixed Commercial & Residential sites that inject a live-in population to the area to ensure round-the-clock vibrancy.
	A generous tree-lined pedestrian mall runs through the district, connecting major developments, public open spaces and MRT stations.
	Orchard Road brings together unique sub-precincts with different personalities - Tanglin, Orchard, Somerset and Dhoby Ghaut (see Fig 1). New retail concepts and lifestyle attractions are encouraged to enhance the unique characters of each precinct.
	TANGLIN ORCHARD Shopping paradise featuring luxury and flagship stores Lush green spaces with family-friendly attractions SOMERSET Whose GHAUT SOMERSET ORCHARD SOMERSET DHOBY GHAUT SOMERSET GHAUT

Parameters	Requirements
	Fig 1. Positioning of Orchard Road sub-precincts.
	The Urban Design guidelines for Orchard Planning Area aim to achieve: a) A Walkable and Pedestrian-Friendly District By ensuring seamless, all-weather connectivity and accessibility between developments and the MRT stations; and
	b) An Attractive and Vibrant Streetscape By encouraging innovative design, varied building forms, attractive public spaces and various active uses along the Orchard Road pedestrian mall.
	Innovative projects of high quality that do not fully conform to the prevailing guidelines and planning parameters can be considered under the Strategic Development Incentive (SDI) Scheme.
Uses at the Basement, 1 st and 2 nd Storey Levels	To create vibrant precincts, attractive and pedestrian-friendly streets, activity-generating uses (AGU), such as retail, food & beverage, and other active uses are to be provided at the following locations:
Appendix 2:	The 1 st storey of developments fronting key pedestrian malls, side streets and public spaces; and
Pedestrian Network & Activity-	Alongside the underground pedestrian walkways at the basement levels of the developments.
Generating Use Plan	AGUs are also encouraged alongside 2 nd storey pedestrian links.
	For more information on AGUs, please refer to the <u>Development Control Handbook</u> .
	Fig 2. AGUs provided along Discovery Walk.

Parameters	Requirements
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Outdoor Refreshment Areas	Outdoor Refreshment Areas (ORA), i.e. outdoor dining areas, and Outdoor Kiosks are encouraged at the first storey directly fronting onto the pedestrian mall, as well as within courtyards and open plazas within private development sites that are adjacent to the public pedestrian network. The scale and design of the ORA and its structures (if any) are to complement the adjacent building. Developers are encouraged to incorporate spaces for ORAs at the design stage. The ORAs are to be clearly defined to prevent encroachment onto the adjacent pedestrian thoroughfares e.g.
	through the use of different floor finishes or planters, etc.
	For more information, please refer to Annex A.
Building Form and Massing	The overall building form and massing of individual buildings is to consider the scale, form and architectural expression of the surrounding buildings. Buildings should be designed to contribute
Appendix 3:	positively to the skyline profile of the city and pedestrian experience
Building Form Plan	along the pedestrian mall. The design of the building form and massing, together with the architectural treatment, is to consider how the building will be viewed as well as impact views from major approaches, key open spaces and pedestrian malls, as well as to create engaging and varied shopfronts along the pedestrian mall.
Building Height	Different building heights are specified for individual precincts to create a layered, three-dimensional skyline profile, to respond to the specific site context and to reinforce the character of the district.
Appendix 3: Building Form Plan	In general, the overall building height is higher around Orchard MRT station, marking it the gateway to Orchard Road. The building heights step down towards the Somerset and Tanglin Road areas.
	The maximum allowable building height is subject to the prevailing Master Plan controls and technical height controls imposed by the technical agencies. Urban Design height controls will take precedence over technical height controls if the former is lower.
	Residential Developments For Residential developments within Orchard Planning area, an equivalent building height to the maximum allowable height for a commercial building can be considered to give greater design flexibility (see Figure 3 and Figure 4). Notwithstanding this, the current development controls on maximum floor-to-floor heights for residential buildings will continue to apply.



Building Setback and Building Edge

Appendix 3: Building Form Plan

Last updated: 20 November 2020



Fig 5. The grand boulevard effect of Orchard Road is reinforced by a consistent building edge on both sides of the street. (Image courtesy of DP Architects Pte Ltd).

Parameters	Requirements
	Orchard Road has a signature image of a wide tropical boulevard flanked by trees and buildings that reinforce and define the street by relating to a common building setback line.
	Developments along Orchard Road and Scotts Road are to be set back 7.6m or 11.6m from the line of Road Reserve. This is to safeguard the generous pedestrian malls on both sides of the street, which have become vibrant staging grounds for outdoor refreshment areas, activities and events. Along Orchard Boulevard, developments are to be set back 7.6m from the line of Road Reserve to provide a lushly landscaped green buffer to complement the tree-lined boulevard.
	In order to maintain the well-defined urban streetscape, these buildings are also to be built-up to the 7.6m /11.6 m building setback line.
	Up to 40% of the building frontage can be set back further from the building setback line for articulation of the building form, so that a variety of spaces, as well as interesting building fronts can be created.
	Up to 50% of the podium facade area can also be projected within the building setback, in the form of Façade Articulations, to create more interesting and varied building frontages.
	2nd Storey Level
	BUILDING SETBACK BUILDING SET
	Buildings featuring multi-storied shop fronts with a high level of transparency and attractive lighting are highly encouraged to add vibrancy and variety to the streetscape.
	For more information on façade articulation, please refer to Annex B.
Party-Wall Developments	Selected developments are to be built up to abut the common boundary of the development to create party wall developments, which abut the common boundary with the adjacent sites and match the podium levels or the full height of the developments. This allows

Parameters Requirements developments to maximise the building footprint and creates a Appendix 3: **Building Form** continuous pedestrian walkway between developments. Window openings and façade articulation are not permitted along the party-Plan wall. Above the party-wall, developments are to be set back by a minimum of 3.0m from the common boundary for window openings. For residential towers, the residential towers are to be set back from the common boundary according to the Development Control Guidelines. Tower Setback Setback 3m from the common boundary or in compliance with Development Control Guidelines for Residential Development Party Wall Fig 7. Building setback requirement from party wall. For more information, please refer to Annex C. **Public Space** Appendix 2: 1st Storey Pedestrian Network & Activity-Generating Use Plan Last updated: 3 June 2022 Fig 8. An example of a sheltered public space with direct access to the MRT and Underground Pedestrian Network. It is important to provide public spaces within private developments for users to enjoy. Selected developments along Orchard Road are to incorporate public open spaces within the development site to support activities

that can contribute to the vibrancy of the street. These open spaces

Parameters	Requirements
	are to be well-landscaped with a high degree of visual and physical porosity.
	These public spaces are to be designed to be conducive for the staging of events, and be publicly accessible at all times. They are to be connected to the key pedestrian routes at the 1st storey (such as the pedestrian mall, adjacent open and covered walkways, through block links), and, where applicable, are encouraged to be linked and designed to be well integrated and easily accessible from the underground and elevated 2nd storey pedestrian networks within the development.
	The design of these public spaces shall comply with the Design Guidelines for Privately Owned Public Spaces (POPS).
	Relevant Circular: • Update to the Design Guidelines for Privately Owned Public Spaces (POPS)
Greenery Replacement and Landscaping	To create a green and sustainable city, all new developments will be required to incorporate landscaping in the form of sky terraces and roof gardens according to the Landscape Replacement Area (LRA) requirements. For more information, please refer to the Development Control Handbook .
Roofscape	The roof areas of both the high-rise and low-rise parts of developments are to be considered as the "fifth" elevations and designed to complement the overall form, massing and architectural treatment of each development and articulated to contribute to the skyline profile. The roofs can be designed to be usable outdoor spaces. All service areas, car parks, Mechanical & Electrical (M&E) equipment, water tanks, etc., are to be fully integrated within the overall building envelope and visually well-screened from the top and on all sides.
	Relevant Circulars:
	Screening of Mechanical and Electrical Services and Car Parks
	Guidelines to Encourage More Innovative and Better Design of Rooftops. A. Relaxation of the Gross Floor Area (GFA) Exemption Guidelines for Rooftop Covers. B. Screening of Mechanical & Electrical Services and Car Parks, on Roofs and Building Facades Within the Central Area.
Night Lighting	All commercial developments are strongly encouraged to have a well-designed night lighting scheme that expresses the architectural design and building form when seen from the pedestrian mall and street level, to contribute to the vibrancy and variety of the streetscape.

Parameters	Requirements
Pedestrian Network	The Orchard Planning Area is planned as a pedestrian-friendly area via a comprehensive pedestrian network at the 1 st storey, basement, and 2 nd storey. This network provides convenient, comfortable, and seamless connections between developments, transport facilities, and key spaces and attractions, and ensures all-weather comfort for pedestrians.
	At-Grade Pedestrian Network
Appendix 2: 1st Storey Pedestrian Network & Activity- Generating Use Plan	The at-grade pedestrian network is augmented by covered walkways which provide all-weather protected pedestrian routes. All developments are required to provide covered walkways at the 1st storey along the site boundaries / lines of Road Reserves or the designated setback lines. The covered walkways function as public amenities. They are to be kept free of obstruction at all times. In exchange, the area is exempted from GFA computation.
	The minimum width of the covered walkways is to be 5m or 3.6m, as shown on Appendix 2. Where colonnades are provided, the internal clear width of the covered walkways are to be minimum 4.4m and 3.0m respectively. To provide adequate protection for pedestrians during inclement weather, the external soffit heights are to minimally match the width of the covered walkway.
	To maintain a distinct precinct character, all covered and open walkways are to be predominantly paved in flamed-finish heavy duty grey granite tiles, laid parallel to the Road Reserve to match the existing paving along the Pedestrian Mall.
	For more information on the paving requirements, please refer to Annex D.
	Through Block Links Selected developments, especially those with long frontages, are required to provide through block links to improve permeability of the streetblock and in particular, towards the pedestrian mall.
	Covered walkways and linkways, as well as through block links may be exempted from GFA computation if they form part of the larger pedestrian network. Specific design requirements have been imposed on some key sites, depending on the locations of these through block links.
	The minimum width of through block links is 4.0m to 7.0m, unless otherwise specified. The minimum height of through block links for Orchard is 10.0m.

Parameters

Requirements





Appendix 4: Underground Pedestrian Network

Fig 9. Through block link at 313@Somerset, connecting the Somerset MRT station to Orchard Road.

<u>Underground Pedestrian Links (UPL)</u>

The Underground Pedestrian Network (UPN) complements the 1st storey pedestrian network and provides direct connection to Rapid Transit System (RTS) stations. As a guide, the UPLs are to be at least 6.0m wide (with Activity Generating Uses [AGUs] on one side) or 7.0m (with AGUs on both sides) with a minimum 4.0m (clear) internal ceiling height of the walkway, unless otherwise specified.

UPLs are to include vertical pedestrian circulation points within the building envelope to connect to the covered walkway at the 1st storey. Each vertical circulation point is to include a pair of two-way escalators, staircases, and two passenger lifts. The entire UPL and the associated vertical circulation points are to be kept open for public access during the opening hours of the RTS, unless otherwise specified.

Selected UPLs are eligible for a Cash Grant Incentive Scheme that reimburses the developer for the costs of constructing these underground links.

Relevant Circular:

Parameters	Requirements
	<u>Central Area Underground Pedestrian Network: Revisions to</u> <u>the Cash Grant Incentive Scheme</u>
Appendix 5: 2nd Storey Pedestrian Network	Elevated Pedestrian Links (EPL) The Elevated Pedestrian Network complements the at-grade and underground pedestrian network to provide seamless connectivity between developments. Building owners and developers are encouraged to provide elevated links to connect between buildings.
	EPLs are to include vertical pedestrian circulation points within the building envelope to link to the covered walkways at the 1 st storey. The entire EPL and the associated vertical circulation points are to remain open for the duration of the mall's operating hours.
	For more information, please refer to the latest <u>Annex E</u> .
	General Conditions The pedestrian network on all levels is to be designed for universal access. GFA exemption can be considered for public spaces, covered walkways, through block links and elevated walkways, subject to the prevailing Development Control Guidelines.
Servicing, Vehicular Access & Car Parks	To maintain an attractive streetscape, any above-grade car park and service areas, including refuse bin centre(s), loading / unloading bays and vehicular storage lane(s) are to be located away from the pedestrian mall, fully integrated within the overall building form, and visually well-screened from above and on all sides.
	Electrical substation(s), where required, can be located at-grade but are to be well-integrated as part of the overall building design and are not to front onto the main roads, pedestrian malls, or public spaces.
	All vehicular ingress / egress to car parks, service areas, passenger drop-off / pick-up points and taxi lay-bys, etc, including external ramps, all associated structures and fixtures, are to be be located away from the pedestrian mall and well-integrated with the building form and overall architectural treatment of the development. Sufficient holding bays for the vehicular access points to the car parks and service areas are to be provided within the development to ensure the smooth flow of vehicles along adjacent roads.
	All car parks are not to front the pedestrian mall, to create a seamless and pedestrian-friendly mall that is uninterrupted by vehicles. Developments fronting the pedestrian mall are encouraged to provide basement car parks. Where there are technical / site constraints, any above-grade car parks are to be located away from promenade and open space, and to be set back from the facade to provide active uses (retail, F&B etc) fronting onto

Parameters Requirements the pedestrian mall. Where the site configuration does not allow for active uses to be incorporated, the facade of the car parking floors is to be designed to match the rest of the building. Fig 10. Before and After: Transformation of driveway in front of Mandarin Hotel into Pedestrian Mall. Relevant Circular: Screening of Mechanical and Electrical Services and Car Parks Guidelines to Encourage More Innovative and Better Design of Rooftops. A. Relaxation of the Gross Floor Area (GFA) Exemption Guidelines for Rooftop Covers. B. Screening of Mechanical & Electrical Services and Car Parks. on Roofs and Building Facades within the Central Area Works within To achieve a pedestrian-friendly and consistent district character, all new developments or developments undergoing major Additions the Road and Alterations fronting the pedestrian mall may be required to Reserves include the upgrading of the existing pedestrian mall as part of the works. The key elements to consider are tree planting and landscaping, paving materials, pedestrian walkways etc. Open Walkway As a guide, the open walkways within the Road Reserve are safeguarded for pedestrian use and to match the paving

Parameters	Requirements
	requirements of the covered walkways. The paving pattern of the open walkways is to be coordinated with the covered walkways and the existing paving pattern along the Pedestrian Mall.
	For more information on the paving requirements, please refer to Annex D.
	Dedicated Cycling Routes Certain key roads within the Orchard Planning Area will be earmarked as dedicated cycling routes (please refer to the Special Detailed Control Plan: Connectivity Plan). The alignment, width and design of the cycling routes and associated street furniture are to be coordinated with URA and LTA.
	Tree and Shrub Planting Specifications Any new tree or shrub planting specifications for the planting verge within the adjacent Road Reserves will be subject to URA and NParks' requirements and approval.
	Connection to Commuter Facilities For developments with commuter facilities (e.g. bus stops and taxi stands) located in front of their buildings, sheltered linkways are to be provided between the covered walkways at the 1st storey to these facilities to provide direct continuous sheltered connections.