## North West Rail Link Showground Road Station Structure Plan

**A Vision for Showground Station Surrounds** 







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## **Showground Road Structure Plan** 1. Introduction

### 1.1 CONTEXT

The North West Rail Link (NWRL) is a priority transport infrastructure project for the NSW Government. The NWRL will include eight new stations and services as part of a 23 kilometre link, running from Epping to Cudgegong in north west Sydney, connecting with the Epping to Chatswood Rail Link (ECRL) and Sydney's wider rail network.

The north west of Sydney is expected to experience high growth with the need for new dwellings and additional jobs to meet demand. To sustainably manage this growth, metropolitan planning aims to provide for a more compact, accessible city, capable of supporting more jobs, homes and lifestyle opportunities within close proximity of public transport.

The delivery of a new rail line in the North West is a significant investment in public infrastructure and represents an opportunity to carefully consider the wider implications of rail and to comprehensively plan for the future. The North West has great potential to become a major transportoriented corridor, delivering a significant amount of housing and employment, high levels of self-containment and an unrivalled level of amenity and lifestyle within a desirable residential community.

The NWRL will meet the challenge of future growth, by:

- **Providing rail access** between North West Sydney and Epping, Macquarie University, Macquarie Park, Chatswood, St Leonards, North Sydney and the Sydney Central Business District (CBD), including new rail services to existing centres in the Hills District, such as Castle Hill, Rouse Hill and Norwest Business Park.
- **Reducing vehicle trips**, when rail is introduced to the North West all modes of public transport will become a more attractive and accessible alternative to the private motor vehicle.
- **Improving travel times** from, to and within the North West and delivering a reliable, dependable service.

## 1.2 REPORT STRUCTURE

The following report is a study to determine the challenges and opportunities the new station will present to the Showground Road locality culminates in a collective vision and Structure Plan for the station precinct, to guide the future character of the Study Area and to reinforce the delivery of the NWRL and a new station at Showground Road. In preparing the Structure Plan, consideration has been given to the following

- 1. Role of the Study Area in the NWRL corridor. Consideration is given to the role the Study Area will perform within the rail corridor and the North West.
- 2. Analysis of the physical characteristics. A comprehensive site analysis has been undertaken to ascertain the natural and physical opportunities and constraints of the Study Area. Please refer to Section 2: Opportunities & Constraints Analysis.
- 3. Analysis of the existing planning controls in the **Study Area.** The key planning controls that apply to the Study Area have been examined to determine their ability to respond to a new rail link and station. Please refer to Section 3: Current Planning Controls.
- 4. Identification of Opportunities for Growth. Sites that may contribute to the growth of the Study Area in response to a new rail link and station have been identified. Please refer to Section 4: Opportunities for Growth.
- 5. Vision for the Study Area. The overall vision for the Study Area is informed by the above analysis. This vision will be realised through the Structure Plan, which provides an overall guide to the future character of the Study Area. Please refer to Section 5: Vision and Structure Plan
- **6.** Actions and Implementation. To achieve the overall vision for the Study Area, a series of actions to be undertaken, have been identified. Please refer to Section 6: Actions and Implementation

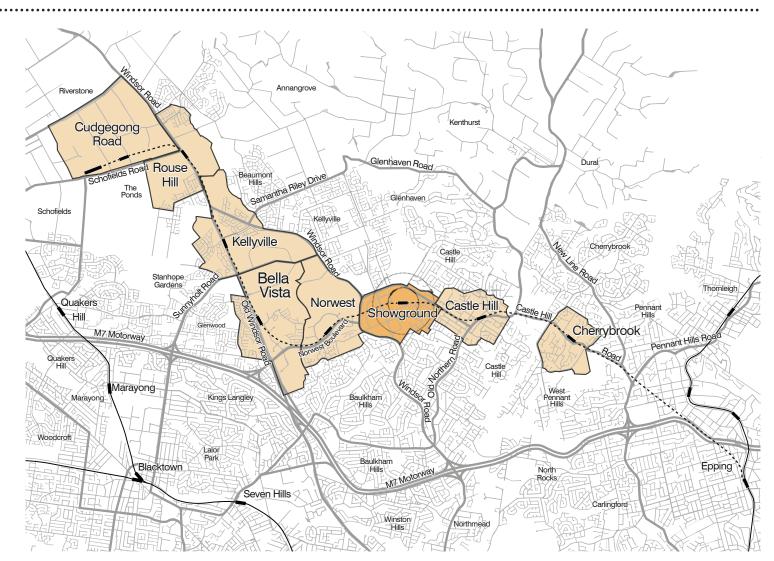


Figure 1: Showground Road Study Area, in the context of the North West Rail Link.



## 1.3 STUDY AREA LOCALITY & CHARACTER

The NWRL includes a new station at Showground Road. The new train station will be adjacent to Carrington Road.

The Showground Road Study Area currently contains a number of important civic, cultural, retail, light industrial and service uses for North Western Sydney.

The boundary of the Study Area is based on the nearest road boundary within a radius of 800m from the proposed Showground Road Station, which is a distance normally considered to reflect a 10 minute walking trip. The boundary has also been defined by taking into account the existing character, predominant land uses, built form and natural elements of the area.

The Showground Road Study Area covers approximately 271 hectares and is entirely located within the Hills Shire Local Government Area (LGA).

The Study Area extends to Showground Road and slightly beyond to the north, Windsor Road to the west and south, and Fishburn Crescent to the south-east.

The Showground Road Study Area currently contains a number of distinct precincts.

A significant amount of employment is currently generated within the Showground Road Study Area in the service, administrative, bulky goods, retailing and manufacturing industries.

The current Hills Shire Council administrative offices and depot are located on Carrington Road, adjacent to the Castle Hill Showground on Doran Drive. However, Council recently resolved to relocate its administrative offices and depot to Norwest Business Park.

The Castle Hill Showground, located in the Study Area's north-east, contains an oval and a spectator stand and a range of other buildings used throughout the year and during the annual show. In the south-east of the Study Area lies an established low density residential suburb, which adjoins residential areas of Castle Hill to the east. This area features single dwellings on large blocks, large setbacks with a leafy suburban character. The subdivision pattern, particularly between Cockayne Reserve and Victoria Avenue features a multitude of culs-de-sac.

The western half of the Study Area contains light industrial and bulky goods uses, providing essential services and employment to the surrounding suburbs. These uses are located along Victoria Road, between Showground Road and Windsor Road, in the Castle Hill Trading Zone, which is also known as Castle Hill Industrial Area. The built form character of the area generally comprises low density warehousestyle structures ranging from 1 to 3 storeys, with large setbacks, landscaping and at grade parking on site, located within a street pattern that is generally well connected to the north, but features culs-de-sac in the south.

The Study Area contains a number of areas of ecological importance, including Cockayne Reserve in the south-east and Cattai Creek corridor though the centre of the precinct, which also contribute to the leafy character of the locality and provide a visual and physical separation between the residential and light industrial areas.

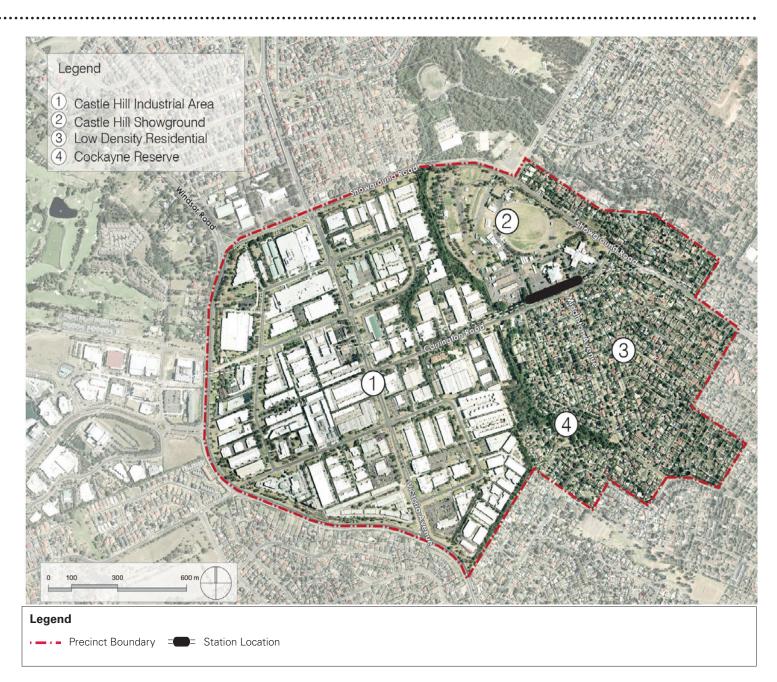


Figure 2: Showground Road Station precinct, showing station location, Study Area boundary and Key Land Uses Source: Google Maps 2012

# **Showground Road Structure Plan 2. Opportunities & Constraints Analysis**

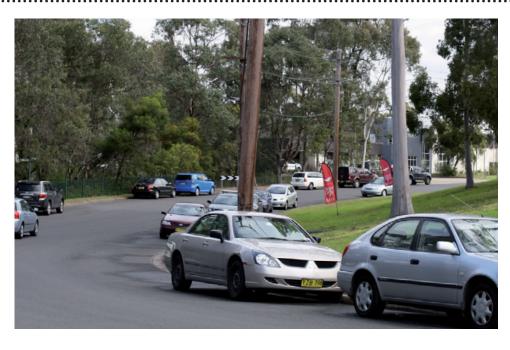
## 2.1 INTRODUCTION

This section assesses the opportunities and constraints within the Study Area. The physical characteristics of the Study Area have been mapped and analysed. The characteristics include; transport, traffic and accessibility; open space networks and ecology; topography and landslip; drainage and hydrology; bushfire risk; and infrastructure easements. Constraints related to recent development, heritage, strata-title and community-title have also been examined.

The combination of these elements reveal the overall level of constraint within the Study Area and highlight those sites which have the opportunity to change in response to a new rail link and station at Showground Road.

The analysis of the information contained within sections 2, 3 and 4 of this report have been drawn from a number of sources including;

- The Hills Shire Council
- Department of Planning and Infrastructure
- Land and Property Information Division of
- Transport for NSW.









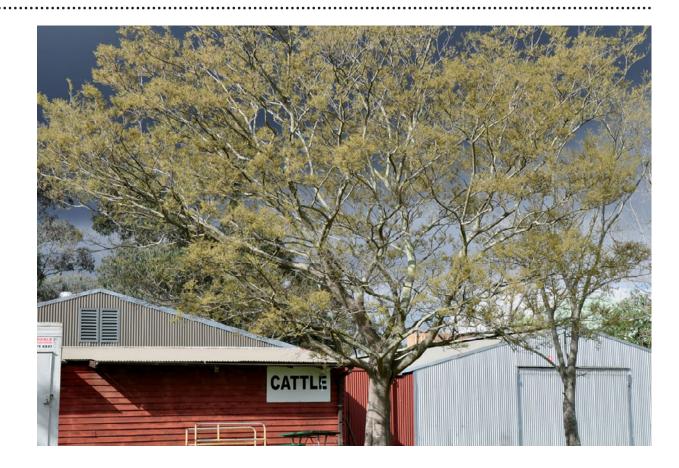












## **Showground Road Structure Plan**

## 2. Opportunities & Constraints Analysis

## 2.2 TRANSPORT, TRAFFIC & ACCESSIBILITY

The Study Area is accessible from three principal routes – Showground Road to the north, Windsor Road to the west and Victoria Avenue through the centre. Showground Road traverses in an east-west direction, linking the Study Area eastwards and westwards to Castle Hill and North/Bella Vista Business Park, respectively. Windsor Road provides the main north-south connection between the M² Motorway and suburbs to the north including Beaumont Hills and Kellyville. Victoria Road provides the major north-south link within the Study Area and runs through the existing light industrial area. Carrington Road is a secondary road providing an east-west connection between Showground Road and Victoria Road.

Within the existing light industrial area, the street pattern is large-grain and connective, feeding mainly onto Victoria Avenue and Windsor Road. In the low density residential area the road network is fine-grain and mainly connective, except around Cockayne Reserve where there are a number of culs-de-sac.

Cycling and pedestrian infrastructure is disjointed throughout the Study Area. The absence of dedicated cycling lanes creates a hostile environment for active modes of transport. Bus services are provided along Victoria Avenue, Windsor Road and Carrington Road.

Figure 4 below demonstrates the 5, 10 and 20 minute walking catchments from the proposed station location. Within the Study Area, pedestrian and cycling accessibility is restricted by barriers associated with the lack of connectivity between the station and the existing industrial area.

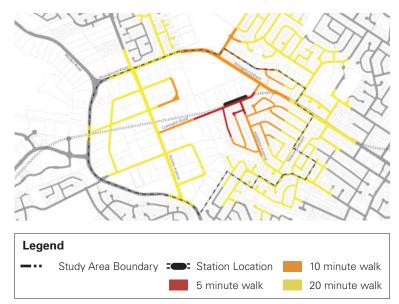


Figure 4: Walking Catchment within the Study Area

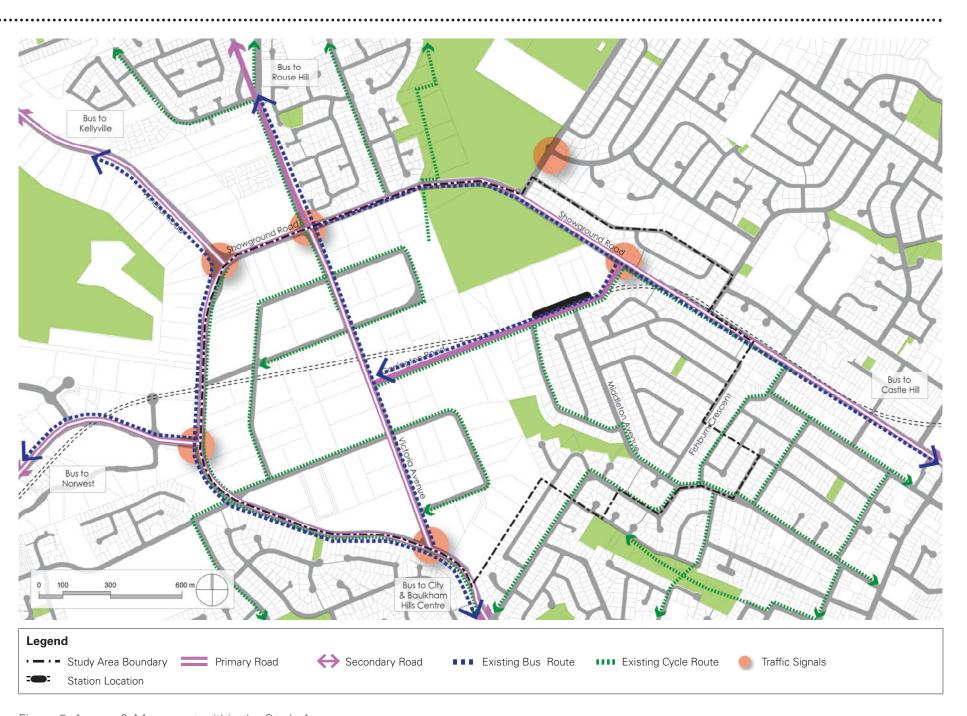


Figure 5: Access & Movement within the Study Area

**08** North West Rail Link



## 2.3 OPEN SPACE & CONSERVATION

Key open spaces within the Study Area include;

- Castle Hill Showground
- Cockayne Reserve
- Small pocket parks between Chapman and Dawes Avenues.

In terms of biodiversity, the Study Area contains an area of Shale/Sandstone Transition Forest, an Endangered Ecological Community under the NSW Threatened Species Conservation Act 1995 and the Environmental Protection and Biodiversity Conservation Act 1999 (EPBC Act), linear in shape, running north-south from the Castle Hill Showground in the north to the residential areas in the south, which is partly located within Cockayne Reserve. This tract of sensitive vegetation is a continuation of Fred Caterson Reserve to the north, which is separated by Showground Road.

An isolated pocket of Cumberland Plain Woodland, an Endangered Ecological Community under the *Threatened* Species Conservation Act 1995 and the EPBC Act, is located at the north west corner of the Study Area. The remainder of the Study Area is free from significant vegetation constraints.

Detailed ecological studies will be required to identify impacts on native vegetation and threatened flora and fauna as part of any future rezoning investigations within the Study Area.



Figure 6: Open Space & Conservation within the Study Area

# **Showground Road Structure Plan 2. Opportunities & Constraints Analysis**

## 2.4 HERITAGE

There are two heritage items of local significance located within the Study Area. Windsor Road, from Baulkham Hills to Box Hill, is also identified as a heritage item of local significance.



Figure 7: Heritage Items within the Study Area

10 North West Rail Link Showground Road Station



## 2.5 TOPOGRAPHY

The topography within the Study Area is largely undulating, forming a bowl around the Cattai Creek drainage channel that broadly runs south-to-north from Cockayne Reserve, through the western edge of Castle Hill Showground and on to Cattai Creek.

Heights within the Study Area range between approximately 64-124 metres above sea level. The highest points within the Study Area are located near the intersection of Windsor and Showground Road, and Dawes Avenue and Fishburn Crescent.



Figure 8: Topography within the Study Area

# **Showground Road Structure Plan 2. Opportunities & Constraints Analysis**

## 2.6 DRAINAGE

The Study Area is located within the Cattai Creek catchment. Cattai Creek first emerges from the stormwater drains in Cockayne Reserve and flows north along the western boundary of Castle Hill Showground through Fred Caterson Reserve before eventually draining into the Hawkesbury River to the north.

Land adjoining the creek, which includes land in industrial and residential use, has a risk of flooding. However, this flood prone land largely coincides with significant open space corridors identified in this report.

Given the significant area of drainage catchment within the Study Area, controls governing stormwater capture, treatment and re-use will need to be devised to govern any future growth.

The flooding information captured in this report is preliminary and a detailed flooding study will need to be undertaken at master plan, rezoning or development application level.

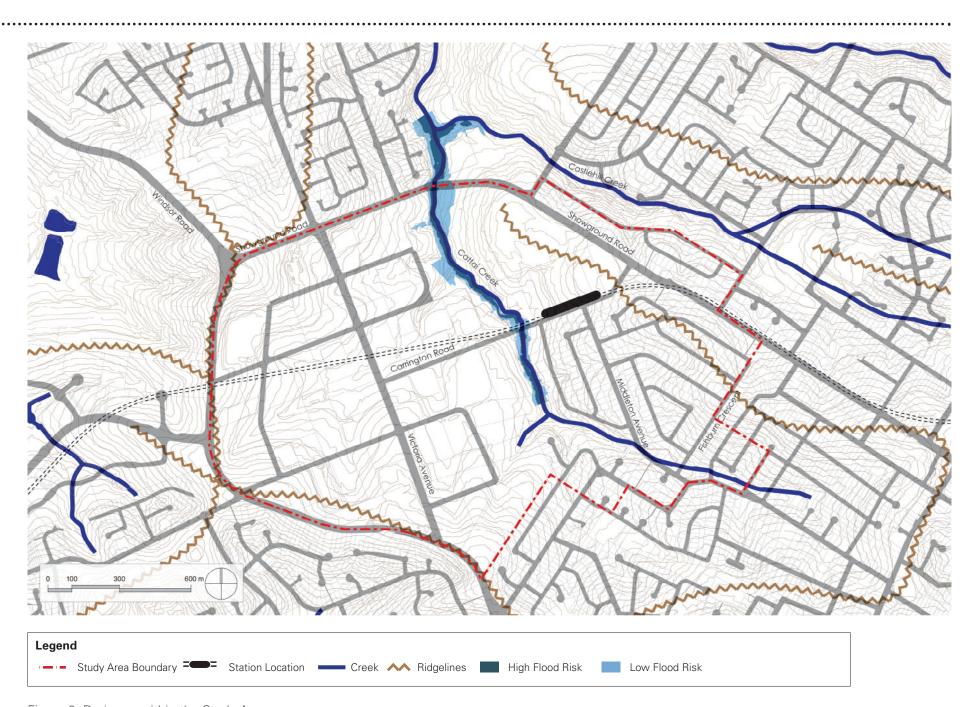


Figure 9: Drainage within the Study Area

12 North West Rail Link Showground Road Station



## 2.7 RECENT RESIDENTIAL **DEVELOPMENT**

The assessment of recent residential development includes any development that has occurred over the last 15 years.

An analysis of recent development indicates that incremental low density residential development has occurred on a very limited number of sites since 1998. These sites are in dispersed locations, north and south of Carrington Road and east of Showground Road, in the east of the Study Area.

Consideration has been given to the condition and age of the existing building stock and impact of these factors on the likelihood of land being redeveloped in the lifetime of the Structure Plan. Recent development is considered a short to medium term constraint to development as the average life cycle of a building is generally 30-40 years. A proportion of dwellings within the Study Area have been recently built and/or are of sufficient quality to be excluded as potential urban renewal redevelopment opportunity sites in the short to medium term. Refer to section 4 for an overview of the opportunity sites within the Study Area.

The recent residential development data is sourced from the Metropolitan Development Program 2011 which catalogues dwelling completions from 1998/99 – 2009/10.

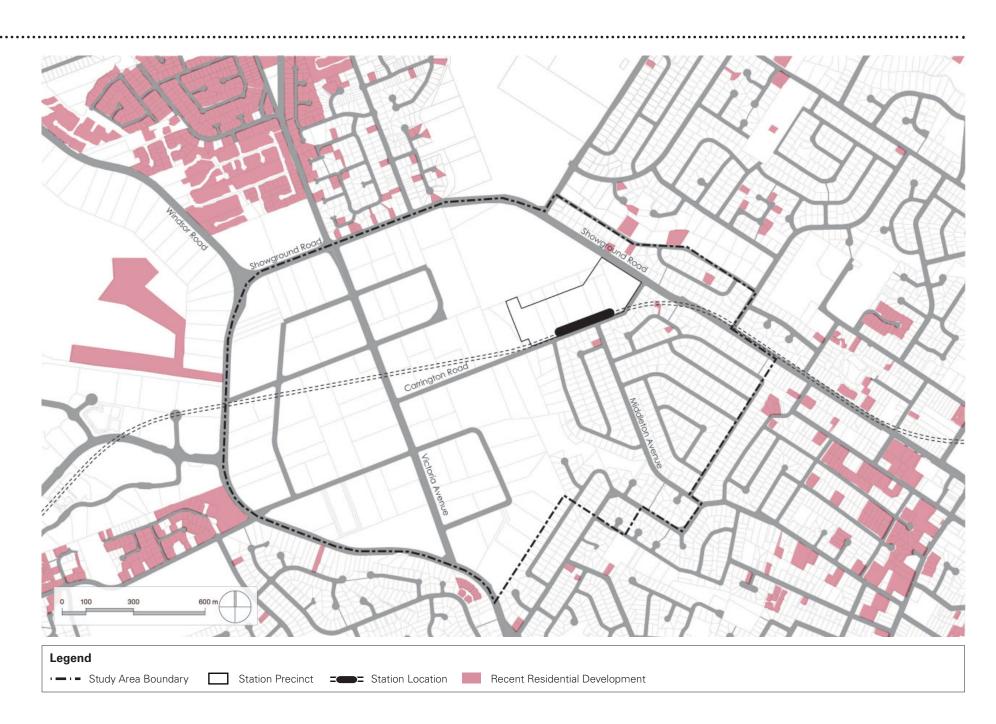


Figure 10: Recent Residential Development within the Study Area

# **Showground Road Structure Plan 3. Planning Controls**

## 2.8 OTHER CONSTRAINTS

There are a number of sites scattered within the existing industrial areas that are governed by strata title or community title arrangements. Two residential sites within the existing low density residential area are also subject to strata title ownership.

Land governed by strata or community title arrangements are considered a constraint to redevelopment, as under current legislation, the approval of all owners and lenders is first required. Accordingly, these schemes are not likely to contribute to the future residential capacity of the Study Area in the foreseeable future. However, a number of these opportuniy sites are governed by commercial strata schemes which are generally considered to be less of a constraint to redevelopment than residential strata schemes.

A parcel of bushfire prone land, classified as a 'Bushfire Zone Buffer', is located in the north of the Study Area, on land within the Castle Hill Showground.

As a result of its highly urbanised nature, the remainder of the Study Area is free of constraints related to bushfire risk.



Figure 11: Other Constraints within the Study Area



## 2.9 COMBINED CONSTRAINTS

The constraints mapping indicates there are large portions of the Study Area that are constrained.

Pockets of significant vegetation scattered across the Study Area are likely to restrict any potential growth in this area.

A number of sites within the existing industrial area, governed by strata and community title arrangements, are not likely to contribute to the future employment capacity of the Study Area into the foreseeable future.

The Cattai Creek drainage corridor running through the Study Area is a constraint but can provide the opportunity to increase community facilities, active recreation and passive recreation spaces that contribute to increased levels of amenity for workers and residents of the area in the future.



Figure 12: Combined Constraints within the Study Area

## **Showground Road Structure Plan 3. Planning Controls**

## 3.1 INTRODUCTION

This section reviews the existing land use zoning, height, floor space and lot size controls that apply to land within the Study Area.

The key planning controls applying to the Showground Road Study Area are included in The Hills Local Environmental Plan 2012.

Additional relevant controls are also contained in *The Hills* Development Control Plan 2011.

## 3.2 LAND USE

The majority of lands in the west of the Study Area, comprising existing light industrial and commercial premises, are zoned for IN2 Light Industrial. Bulky goods retail and commercial uses at sites along Victoria Road are zoned B5 Business Development. In the east, the existing Council Depot and administrative offices are zoned mixed use and B2 Local Centre, with provision for housing (R1 General Residential) to the east. The Castle Hill Showground site is zoned RE1 Public Recreation. Existing low density residential areas in the south-east are zoned R2 Low Density Residential.

A plan illustrating the Study Area's existing zoning controls is provided in Figure 12: Zoning Controls.

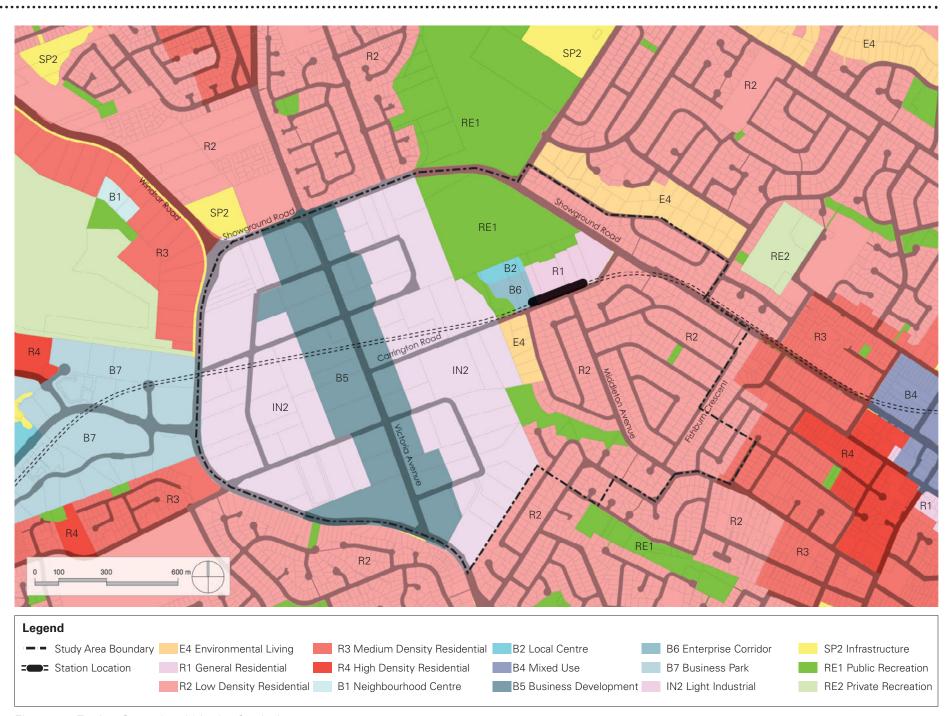


Figure 13: Zoning Controls within the Study Area



## 3.3 BUILDING HEIGHT

Lands within the Study Area are subject to height controls under the The Hills LEP 2012. The majority of lands zoned for low density residential uses (R2) would be restricted to a 9m height limit. Sites currently occupied by the Hills Shire Council administrative offices, south of the Showground are subject to 12m and 16m height controls. Lands in the west of the Study Area, comprising lands zoned for light industrial and business development uses, are subject to a 20m height control.

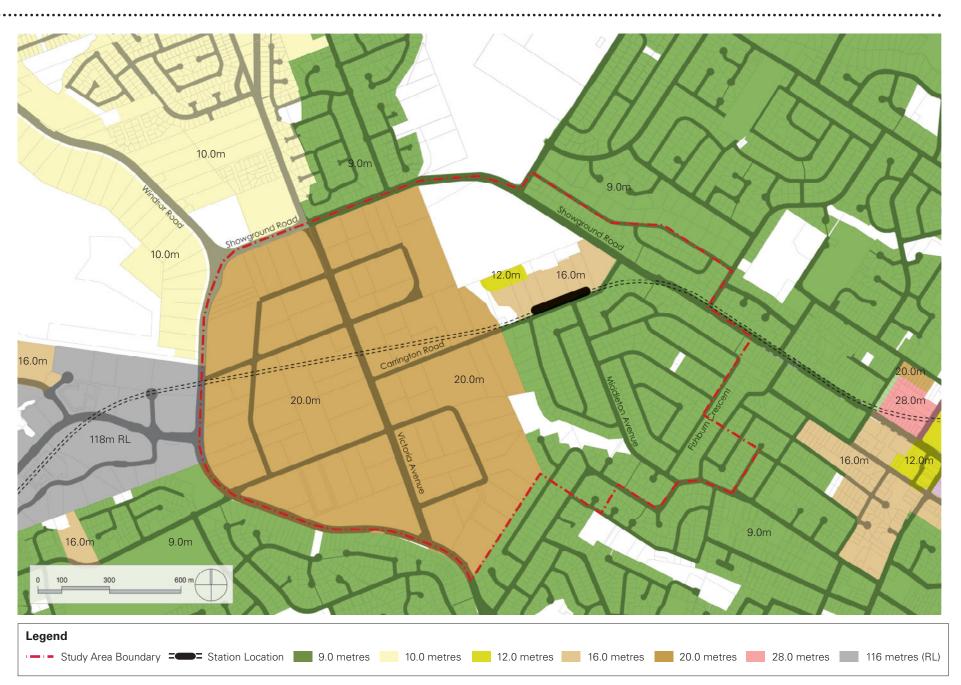


Figure 14: Building Height Controls within the Study Area

# **Showground Road Structure Plan 3. Planning Controls**

## 3.4 LOT SIZE

For light industrial and business development lands in the west of the Study Area, the minimum lot size controls are predominantly 8000m<sup>2</sup>. In the east of the Study Area, the low density residential lands, the Showground Road Station Precinct and sites currently occupied by Council buildings are subject to minimum lot sizes of 700m<sup>2</sup>. A number of large lot residential sites to the south of Carrington Road are subject to a minimum lot size of 2,000m<sup>2</sup>.

A plan illustrating the existing zoning controls is provided in Figure 14: Minimum Lot Size Controls.

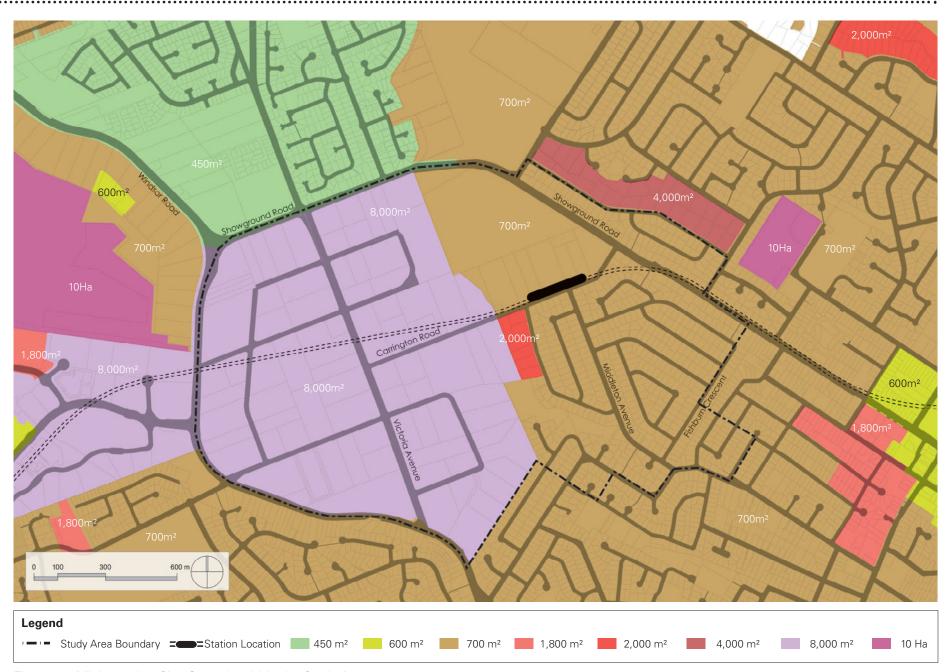


Figure 15: Minimum Lot Size Controls within the Study Area



## 3.5 FLOOR SPACE RATIO

Floor space ratio (FSR) controls refer to the relationship of the permitted built form to the area of a site.

Under The Hills Local Environmental Plan 2012, the majority of the Showground Road Study Area has an FSR of 1:1.

A plan illustrating the existing zoning controls is provided in *Figure 15: Floor Space Ratio Controls*.

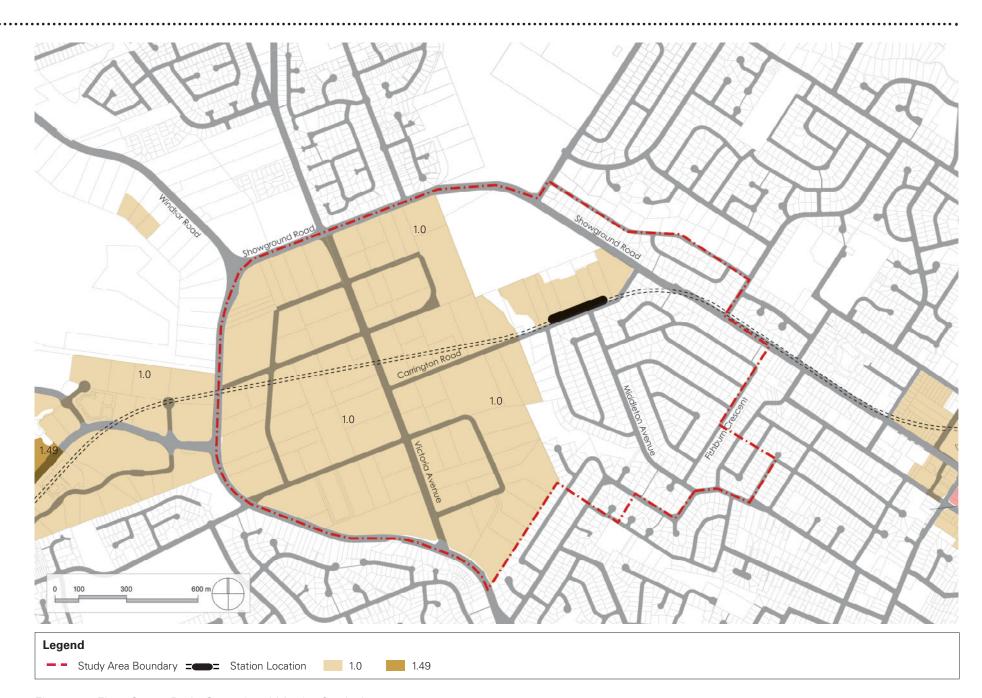


Figure 16: Floor Space Ratio Controls within the Study Area

## **Showground Road Structure Plan**

## 4. Opportunities for Growth

## 4.1 OPPORTUNITY SITES

The outcome of the review of the opportunities and constraints and the existing planning controls of the Study Area leads to the identification of sites with the most potential for renewal to complement a new rail link and station, subject to further investigations.

These opportunity sites vary in their capacity to contribute to the future growth of the Study Area. Some of the identified sites are currently unconstrained and present an immediate opportunity to stimulate growth within the corridor. However, some of the sites are currently being developed or have been developed in recent years and therefore present themselves as long-term opportunities for renewal.

The diagram adjacent highlights these opportunity sites, both short and long term. The sites located to the west of the proposed station present the fewest constraints with good connectivity and within walking distance of the proposed Showground Road station. Contiguous opportunity sites may also allow for the amalgamation of lots in to larger single landholdings.

In the Showground Road Study Area, the most significant constraints are biodiversity and open space, strata ownership and land zoned for road widening. Despite these constraints, a large proportion of the Study Area has potential to be redeveloped. Opportunity sites include lands located around the proposed station, the existing light industrial area and the low density residential area in the south-east.

The review of the existing planning controls demonstrates that controls in the east of the Study Area limit residential development to low density outcomes. While it is important to retain the leafy suburban character of the area, residential densities within walking distance to the station, particularly in areas that have not seen much redevelopment in the last 15-20 years, are suitable for medium densities.



Figure 17: Opportunity Sites within the Study Area



## 4.2 PROJECTED GROWTH UNDER **EXISTING CONTROLS**

Under the planning controls contained within the *The Hills* Local Environmental Plan 2012, the opportunity sites within Showground Road have a variety of land use, height, floor space and minimum lot size controls and could deliver a variety of uses including retail, commercial and residential.

Within the industrial, business development and local centre zones, development is governed by a permissible FSR of

A large proportion of sites within the business development and industrial areas are already developed at 50% (or above) optimisation for the site and at the optimal level for their purpose, i.e. bulky goods retailing with a large proportion of surface car parking. Therefore it is unlikely that under the current FSR controls there will be any significant renewal or uplift within the industrial or business development zones in response to the NWRL.

The existing Council depot and future location of Showground Road station is zoned a mixture of B6 Enterprise Corridor and B2 Local Centre and the Council Administrative offices and the Showground zoned for General Residential.

These controls permit up to 5 storey business, office, retail, light industrial buildings and apartments in certain locations. To achieve the desired height and FSR under the controls, 5 storey buildings would have a relatively low site coverage of 33%-20%.

In areas zoned low density, residential controls permit 3-storey single detached dwellings on minimum lots of 700m² or dual-occupancy dwellings on minimum lot sizes of 600m<sup>2</sup>. For industrial and business development areas, up to 4 storey development is permitted on minimum lot sizes of 8,000m<sup>2</sup>.

An assessment of these current controls on the opportunity sites reveals that the capacity for future growth within the Study Area is predominantly within the industrial and bulky goods retail markets.

The current controls for the Study Area could result in an additional 1,250 jobs (achieved through organic renewal of buildings over time) and 400 dwellings (including 150 apartments on the Council Administration site).

The existing planning controls require some amendments to reinforce the delivery of such a significant investment in infrastructure such as the NWRL. Current controls do not do enough to promote the growth of the Showground Road Study Area as a centre for civic, employment and residential uses, with moderate capacity for an increase in both jobs and housing. Therefore, the vision and Structure Plan contained within this report will detail the desired future character of the area and proposed land uses to complement the new rail link and station.

	RESIDI	ENTIAL	EMPLOYMENT		
	TOTAL DWELLINGS	GROWTH	TOTAL JOBS	GROWTH	
2012	750	-	7,500	-	
2036	1,150	400	8,750	1,250	

Table 4.1: Projected growth in Housing and Jobs under existing controls





## **Showground Structure Plan 5. Vision & Structure Plan**

## 5.1 VISION FOR THE STUDY AREA

The introduction of the NWRL and a station in the Showground Road Study Area has the potential to provide the catalyst for the development of the area as a mixed use centre with strong public transport links to the city and other centres throughout the north west region. A new station will provide further impetus for the area to evolve as a vibrant and active Centre comprising offices, retailing, community facilities, recreation, cultural, leisure, education and housing within walking distance of a new station.

Increased utilisation of the existing employment area could deliver a significant amount of jobs for the future residents of the North West in an area with high levels of amenity, recreation and access to public transport.

Similarly, the NWRL will also provide opportunities to increase residential densities within walking distance of the station, introducing a variety of housing types to ensure there is affordable and appropriate housing for all members of the community.

The redevelopment of major land holdings adjacent to the station provides an opportunity to deliver a vibrant hub for the local area, which could include a mixture of apartments. retail, restaurants, and potentially cultural facilities such as galleries and theatres and boutique office space within a pedestrian-oriented environment.

The Showground will remain a regional recreational asset and benefit from increased activity generated by the new residents, workers and visitors to the station.

The introduction of the NWRL will enable the Showground Road Station Precinct to become a transport hub for the local area, centred on a new train station and integrated with a bus interchange. The Showground Road station will be connected to a local feeder bus network that provides direct access for the residents of the surrounding suburbs to the NWRL and the wider Sydney Rail network.

The Study Area will provide opportunities for increased employment and housing capacities within walking/cycling distance of the station, while ensuring the local amenity, open spaces and natural environment are protected. The vision will be achieved by: identifying and assembling strategic sites and government landholdings within the Centre to attract public and private investment around a vibrant mixed-use core; and improving livability and amenities within the Centre by providing a diverse range of dwellings, retail, recreation and cultural opportunities linked by an enhanced public domain.

Underpinning this vision will be the final Structure Plan, formulated on the principles of Transit Oriented Development (TOD). TODs are generally mixed use communities within walking distance of a transit node that provide a range of residential, commercial, open space and public facilities in a way that makes it convenient and attractive to walk, cycle or use public transport for the majority of trips.



Figure 18: Images depicting the desired future character of Showground











## **Showground Road Structure Plan** 5. Vision & Structure Plan

## 5.2 PROPOSED STRUCTURE PLAN

The Structure Plan is the framework which will guide future planning within the Showground Road Study Area. It is the result of assessing the natural and built elements of the Study Area and existing planning controls. It is founded on principles of providing where possible greater connectivity and strengthening links between the station and surrounding uses.

Drawing on the analysis and existing land uses, the Study Area is proposed to become a vibrant and active hub comprising offices, light industry, retailing, community facilities, recreation, cultural, leisure, education and housing for the greater North West.

To the immediate west of the station precinct, it is proposed that over time a more intensive commercial employment will occur within the existing industrial area bounded by Showground Road to the north, the Castle Hill Showground to the east, Gladstone Road to the south and the bulky goods retail corridor of Victoria Avenue to the west. This commercial precinct will benefit from a number of public domain upgrades and direct access to station and the associated retail and recreation opportunities.

Victoria Avenue is to be reinforced as a bulky goods retail corridor which will provide a vital service function for the growing population of the North West in to the future. To the south and west of the Study Area, existing areas of industry will be retained and reinforced in to the future which perform a vital function by providing certain types of employment, services and goods for the people of the North West.

Residential uplift is proposed within the Study Area primarily located within the area adjacent to the new station. The Structure Plan provides the opportunity for a range of higher density residential development within the mixeduse village. These buildings will benefit from access to the

recreation space of the Showground, the green corridor of Cattai Creek, ground floor activity of retailing and restaurants and direct access to the station and the NWRL. To the east of the station, a variety of medium density living will be located within the residential areas within an easy 10-minute walk of the station to provide a diversity of housing within an attractive and accessible Centre to cater for the growing population of the North West.

#### **ACCESS**

New links are proposed in locations within the Study Area where they will enable intensification of the existing broad-grain road layout by enhancing connectivity and permeability. These links could be either pedestrian or vehicular connections and would be subject to detailed analysis to determine the most appropriate location and configuration. Drawing on existing significant vegetation and parks, a green network is proposed linking Cockayne Park, Castle Hill Showground and Fred Caterson Reserve. This link will become a significant pedestrian thoroughfare, linking the key attractions within the Study Area and will also provide significant habitat for wildlife within the Study Area.

The ring road network formed by Showground Road and Windsor Road will remain significant to connect the Showground Road Study Area with the Norwest and Bella Vista Business Parks and Castle Hill whilst removing a large proportion of regional through traffic from the Precinct. Gateway or entry demarcation points are proposed at entry points to the Study Area at Norwest Boulevard, Windsor Road, Victoria Avenue and Carrington Road. These are likely to take the form of a change in streetscape or defined built form.

### **PUBLIC DOMAIN**

The redevelopment of sites within the Study Area, and the establishment of a new station and transport interchange, will provide significant opportunities to improve the Study Area's public domain.

The primary public domain initiative nominated within the Showground Road Structure Plan is the upgrading of the streetscapes in and around the proposed station precinct. The creation of new and widening of existing footpaths, providing barrier-free access and introducing attractive and appropriate street furniture will be required to reinforce the introduction of the NWRL and a new station at Showground

Upgrading the public domain of the Showground Road can be achieved through a number of initiatives:

- The creation of new open space linkages, streets and connections between transport, new and existing housing, commercial, retailing and civic spaces.
- The protection of existing green spaces within the Study Area which form part of the Showground Road identity, such as Cockayne Reserve south of the station; and the Castle Hill Showground north of the station and the strengthening of the link between these significant open spaces.
- The provision of additional urban plazas, parks and open spaces for the amenity of existing and future residents and workers, particularly within the station precinct

A Public Domain Strategy will be required to detail the delivery of the above initiatives and to guide the broader character of the public domain within the Study Area. This Strategy will need to address a legible hierarchy of streetscapes, treatment of open spaces and plazas, preservation of ecological corridors, pedestrian and cycling linkages, built form response to public and private open space, signage and wayfinding, street furniture, lighting and public art.

#### **INITIATIVES**

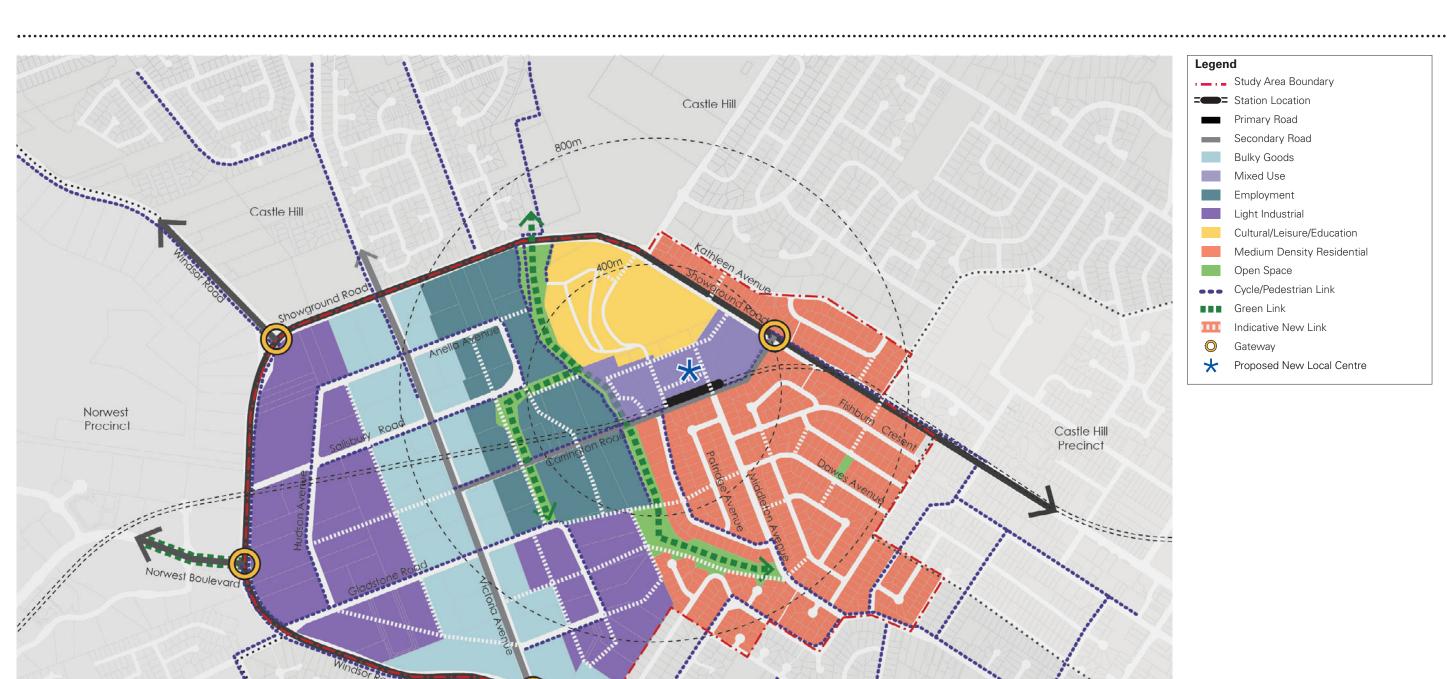
To complement the introduction of the NWRL to the Study Area a number of transport, movement and accessibility initiatives will need to be delivered to ensure safe and attractive movement to, from and within the Study Area.

Within the Showground Road Study Area, the key connectivity issue is pedestrian access across Showground Road, Victoria Avenue and Carrington Road to and from the core of Showground Road and the proposed station location. The anticipated growth within the Structure Plan and increased activity around the new station will require a number of pedestrian priority measures, such as signalised crossings and dedicated off-road paths to provide safe and attractive pedestrian and cycle access to the station from the south.

There are opportunities for dedicated, sealed cycling and pedestrian paths along Carrington Road and Victoria Avenue, which have generous setbacks available in the road reserve for such infrastructure. Pedestrian priority crossings and adequate street lighting will need to be implemented at key locations, such as along Victoria Avenue and Carrington Road, to ensure pedestrian safety and encourage walking, particularly from the residential areas in the south-east to the location of the new station.

Complementing these connections within the core will be a number of new links through the revitalised areas of medium density living, employment area and the mixed use village directly adjacent to the station and Centre. The existing large blocks will be renewed and deliver a network of mid-block connections, linking the gardens and plazas of the apartment buildings, internal courtvards of the commercial offices and the pedestrian streets of the mixed use village with the parks, Castle Hill Showground and transport interchange of the Showground Road Centre.





Castle Hill

Figure 19: Structure Plan for the Showground Road Study Area

Baulkham Hills

## **Showground Road Structure Plan 5. Vision & Structure Plan**

## **5.3 FUTURE PRECINCT CHARACTER**

The following diagrams and images demonstrate the desired future character for the sites which may contribute to the growth of the Showground Precinct in the future.

#### **Mixed Use Centre**

Objectives: To provide a mixed-use, leisure-focused precinct and local centre providing for the day to day needs of residents, that suits the surrounding character and is located in close proximity to the proposed station.

Character: It is anticipated that under the vision and Structure Plan this precinct could accommodate retail, commercial and residential buildings up to 22 storeys to accommodate tower forms at appropriate locations within close proximity to the station, subject to merit assessment It would create a mixed use local centre that is carefully designed to integrate into the existing streetscape. This precinct would also provide residents with direct access to the new rail link and station which would be located underground.

### **Public Domain and Open Space**

Objectives: To provide attractive open spaces of high amenity for the public and protect the unique character of Showground Road. To integrate and connect Castle Hill Showground with surrounding land uses and the protection of Cattai Creek.

Character: The Structure Plan identifies green open spaces for residents that are accessible and safe. They should be landscaped appropriately to integrate with and enhance the existing character of the area.



Figure 20: Proposed Location of Station Precinct



Figure 21: Proposed Location of Public Domain and Open Space







## **Employment**

Objectives: To provide for the employment needs of a growing community and to encourage the emergence of a prominent employment area with direct access to the new rail link and station. Enhancement of the public domain will provide safe and efficient access for employment areas to surrounding uses, particularly the station.

Character: It is anticipated that under the vision and Structure Plan that this precinct could accommodate large floorplate commercial offices on sites that are carefully designed to integrate into the cultural/leisure/education

### **Bulky Goods**

Objectives: To provide a vital retailing and service function for a growing community and the greater North West. As well as a public domain that provides safe and efficient access to employment areas for pedestrians and cyclists.

Character: It is anticipated that under the vision and Structure Plan this precinct could accommodate bulky good retail and service centres on sites that provide off-street parking within a landscaped setting with generous setbacks from the street.



Figure 22: Proposed Location of the Employment Area



Figure 23: Proposed Location of the Bulky Goods Area





## **Showground Road Structure Plan 5. Vision & Structure Plan**

#### Industrial

Objectives: To provide certain types of employment, services and goods for the people of the North West.

Character: It is anticipated that under the vision and Structure Plan this precinct could accommodate a variety of industrial uses on larger sites that are landscaped and that integrate into the existing streetscape.



Figure 24: Proposed Location of the Industrial Area



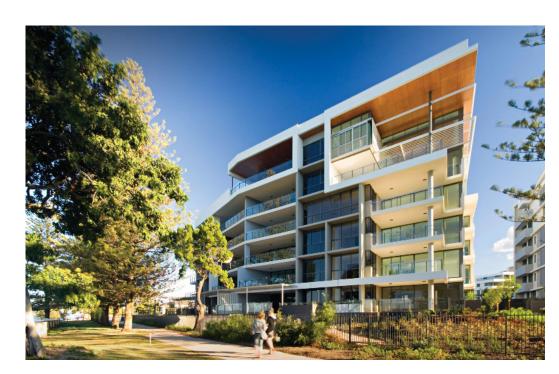
Objectives: To provide for the housing needs of a growing community and to provide a variety of housing types within close proximity of the station and associated uses.

Character: It is anticipated that under the vision and Structure Plan that this precinct could accommodate multidwelling housing only where the site is an appropriate size to deliver a high level of amenity for the existing and future residents. This could comprise of 3-6 storey apartment buildings, carefully master planned around communal open spaces and incorporating landscaped setbacks to existing streetscapes.



Figure 25: Proposed Location of Medium Density Apartment Living







## **Medium Density Townhouse Living**

Objectives: To provide for the housing needs of a growing community and to provide a variety of housing types within close proximity of the station and associated uses.

Character: It is anticipated that under the vision and Structure Plan that this precinct will evolve to become a mixture of single detached dwellings, townhouses, duplexes and medium density apartments.



Figure 26: Proposed Location of Medium Density Townhouse Living





Within the Study Area there are areas and sites which are expected to remain largely unchanged through the delivery of the NWRL and the Structure Plan.

This is due to a number of factors including existing uses, varying degrees of constraints, connectivity, accessibility and market demand.



Figure 27: Areas Expected to Remain Unchanged

## **Showground Road Structure Plan** 5. Vision & Structure Plan

## 5.4 PROJECTED GROWTH

### **Calculating Projected Growth**

The projected growth is a calculation of the amount of residential and employment development that is expected to take place in the Study Area. The projected growth calculations take into consideration the following factors:

- **Development on Opportunity Sites.** Development is projected to occur on the opportunity sites identified in Section 4.1 of this report.
- The Proposed Future Character and Built Form. The Structure Plan identifies the future desired character and built form for areas within the Study Area. These character/building types have been applied to the opportunity sites.
- **Assumptions.** A series of assumptions related to the different development types have been applied to calculate the land areas required for each built form. Details can be found in the North West Rail Link Corridor Strategy.
- **Demand.** The amount, and rate of development is influenced by market demand for different types of development within the Study Area. Market demand is determined by 'take-up' or 'realisation' rates, which reflect market conditions and has been informed by a high-level feasibility analysis. Due to the high level of amenity and quality of life afforded within the Study Area at present and the added accessibility delivered by the North West Rail Link, the take up/realisation rate is considered to be 48% for housing and 28% for employment. Take-up/realisation rates have been identified for each development type and these have been used in the projected growth calculations.

### **Projected Growth in the Study Area**

The outcome of these projected growth calculations is provided in the tables below. Total opportunity site area within the Study Area equates to approximately 163 hectares.

Application of the proposed land uses and typologies within the Structure Plan will result in a total capacity for an additional 7,500 dwellings by 2036. However, it is anticipated that 48% of this capacity will be realised, delivering an additional 3,600 dwellings within the Study

The proposed Structure Plan will result in an additional employment capacity of 35,000 jobs by 2036. However it is anticipated that only 28% of this capacity will be realised, delivering an additional 7,700 jobs within the Study Area.

## RESIDENTIAL

TYPE OF HOUSING	DWELLINGS IN 2012		DWELLINGS IN 2036		GROWTH
TTPE OF HOUSING	TOTAL	%	TOTAL	%	TOTAL
SINGLE DETACHED	500	67%	400	9%	-100
TOWNHOUSE	0	0%	350	8%	350
3-6 STOREY APARTMENT	250	33%	2,600	60%	2,350
7-12 STOREY APARTMENT	0	0%	1,000	23%	1,000
TOTAL DWELLINGS	750	100%	4,350	100%	3,600

Table 5.1: Projected Residential Growth in Showground Road under the Structure Plan

## **EMPLOYMENT**

TYPE OF JOBS	JOBS IN 2012		<b>JOBS IN 2036</b>		GROWTH
TTPE OF JOBS	TOTAL	%	TOTAL	%	TOTAL
COMMERCIAL	1,000	13%	6,400	42%	5,400
RETAIL	0	0%	800	5%	800
BULKY GOODS	4,000	53%	5,500	36%	1,500
INDUSTRIAL	2,500	33%	2,500	17%	0
TOTAL JOBS	7,500	100%	15,200	100%	7,700

Table 5.2: Projected Employment Growth in Showground Road under the Structure Plan

### **Demand Analysis**

A high level demand analysis has been undertaken to ascertain the demand for potential development scenarios on opportunity sites within the Study Area. The analysis:

- Assessed the proposed future desired character and built form, including densities, as proposed under the Structure Plan, against market conditions and demand; and
- Identified take-up/realisation rates for each land use within the Study Area, which informed the calculation of projected growth.

### Outcomes of the demand analysis:

- 1. Demand for Additional Dwellings. Future demand for additional residential development in the Study Area is estimated to be in the order of 165 dwellings per annum comprised of 25% 7-12 storey apartments, 65% 3-6 storey apartments, and 10% townhouses in addition to existing stock resulting in the total dwelling diversity shown in the adjacent table in 2036. Such demand is related to the high level of amenity and quality of life afforded within Showground Road, the demand for housing diversity and improved access to social, recreational and employment opportunities as a result of the North West Rail Link.
- 2. Demand for Employment Lands. Future demand for additional employment (commercial, retail, bulky goods and industrial) floorspace within the Study Area is projected to increase within the Study Area at a rate of 5,200m<sup>2</sup> p.a. of commercial, 1,000m<sup>2</sup> p.a. of retail, 4,000m<sup>2</sup> of bulky goods whilst industrial remains a constant.
- 3. Type and Location of Development. The demand analysis supports the provision for 7-12 storey and 3-6 storey garden apartments within the mixed use station precinct and within close walking distance of the new train station. These areas of residential uplift and renewal may serve as the catalyst for regeneration within the broader precinct. In particular, future residents will be attracted to these areas for their levels of amenity, employment opportunities, retail and community facilities and close proximity to the station.

The analysis supports the provision for townhouse development on the periphery of the Study Area where large single lots could accommodate 2-4 townhouses each and the possibility to amalgamate sites into larger contiguous landholdings exists.

In terms of future employment generating development, the feasibility analysis supports the provision for retail land-use at the mixed use area around the new station to provide for the day to day needs of residents and workers and the broader regional catchment. Future retail floorspace within Showground Road is to be located within the mixed use station precinct and is expected to increase in line with the growth of the local population catchment.

Showground Road will also provide a significant amount of employment across a variety of sectors with an employment area supported by bulky goods retailing and light industrial.

## **Showground Road Structure Plan**

## 6. Actions and Implementation



## 6.1 INTRODUCTION

The Structure Plans for the NWRL Station Precincts are to be considered at the strategic planning level, similar to that of the Subregional Strategies for Sydney. The Structure Plans are to inform, and be implemented through, appropriate zonings, amendments to built form controls and to guide the assessment of major projects and development applications within the Study Area.

To deliver the Structure Plan's projected growth, zoning and planning controls for the Study Area will require review. Current controls, such as those relating to minimum lot size, height, and FSR constrain intensification of land use and thus should be revisited. Similarly, Development Control Plans, Section 94 Schemes and Public Domain Strategies will also need to be revised in light of the NWRL. Current parking policies and minimum apartment sizes are constricting the type and variety of dwellings being offered within the Study Area.

The above will be carried out in consultation with relevant agencies, stakeholders and key landholders. Other matters for consideration include public domain, transport. accessibility and infrastructure servicing.

## 6.2 PUBLIC DOMAIN, URBAN **DESIGN & OPEN SPACE**

Consideration is to be given to public domain and open space planning for the Study Area including:

- Streetscapes, with open space linkages and connections to transport, new and existing housing and open space, commercial, retailing and civic spaces,
- The need for open spaces and civic spaces,
- Preservation of existing green spaces,
- Pedestrian and cycling linkages,
- Built form response to public and private open spaces,
- Signage and wayfinding,
- Street furniture, lighting and public art.

## 6.3 TRANSPORT, MOVEMENT AND **ACCESSIBILITY**

Consideration is to be given to transport, movement and accessibility planning for the Study Area including:

- Safe and efficient movement to, from and within the Study Area,
- Improvements to connectivity, particularly for nonvehicular transport modes, to the new station and new centres including the identification and provision of cycle and pedestrian infrastructure along key routes within the Study Area,
- Identification of improvements to bus networks serving the precinct,
- Parking requirements,
- Road upgrades, including local road widening, to accommodate increased movements associated with the introduction of a new rail station in the Showground Road Study Area,
- Bus, taxi, kiss and ride interchange integrated with the

## 6.4 INFRASTRUCTURE AND **SERVICES**

The projected growth in population and employment within the Study Area will require consideration of infrastructure networks, such as water, sewer, electricity and gas to meet projected demand.







