Appendix J

Open Space and Community Facilities

Assessment

Kellyville Station Precinct





Open Space and Community Facilities Assessment



Kellyville Priority Precinct

Prepared for the NSW Department of Planning and Environment

For Public Exhibition

August 2015

14429

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Executive Summary

Due to its alignment with the North West Rail Link, Kellyville has been selected by the NSW Government as a Priority Precinct. Under this designation, the government is planning to provide more homes and jobs close to the rail station. To guide this outcome, a new planning framework has been established that will deliver 4,300 new homes and 2,170 new jobs in a high density residential and mixed use, transit oriented form.

To support this growth, a public open space network is proposed. The network, which includes both new open space and augmentation and embellishment of existing open space, comprises 11.18 ha broken up into 2.68 ha of passive open space and 8.50 ha of active open space. Key features include the Caddies Creek sporting complex, which will include a new outdoor, multi-purpose playing field, the Arnold Avenue neighbourhood park and a connected network of linear and linkage open space. This is in additional to the existing 155.8 ha of active and passive open space, and 2.20 ha of other open space such as areas used for revegetation.

The proposed open space network does not align with traditional numerical standards for quantum. However, it is widely accepted that reliance on such standards is a poor indicator of the suitability of open space for an incoming population. Rather, a balanced consideration of a range of factors such as distribution, type and role, quality, forecast future demographics and recreation participation trends is required. Assessment of the network against these factors shows that it performs well in a number of key areas. In particular, the open space network will ensure that new homes are within a 5 minute walk (400m) of open space, and the extent of linear and linkage open space will cater for walking and cycling, which are two of Australia's most popular recreation activities. Furthermore, the allocation of large areas of well-located land for land intensive sporting fields does not represent the highest and best use of land, particularly where there are suitable alternative locations closeby.

On this basis, the proposed open space network is considered to be adequate to cater for the likely recreation needs of the incoming community

Factoring in proposed additional population, best practice and considering benchmark standards, it is recommended that one neighbourhood scale community facility having a minimum area of around $400-500\text{m}^2$ should be provided to service both the Bella Vista and Kellyville precincts. Due to its role as a larger centre having a greater amount of employment and residential development, it is recommended that this facility be provided in the adjoining Bella Vista precinct in a central location, ideally adjoining or near the civic plaza, and incorporate flexible, multi-purpose space/s that can be configured to suit a broad range of indoor recreation activities. It is also recommended that additional library space of approximately 200-300 square metres and potentially incorporating internet and computer services and reading spaces be co-located or integrated with this community facility.

Glossary

Full name	Abbreviated name and acronyms
Kellyville Station Precinct	the Precinct
Kellyville Station Precinct Structure Plan	the Structure Plan
The Department of Planning and Environment	the Department
The Hills Shire Council	the Council (only where there will be no confusion about which council referred to)
Blacktown City Council	the Council (only where there will be no confusion about which council referred to)
The Hills Local Government Area	The Hills LGA
North West Rail Link	NWRL
North West Rail Link Corridor Strategy	NWRL Corridor Strategy
The Hills Local Environmental Plan 2012	The Hills LEP 2012
The Hills Development Control Plan 2012	The Hills DCP 2012

1.0 Introduction

This report has been prepared by JBA and provides an assessment of open space and community facilities relating to the proposed rezoning of the Kellyville Station Precinct.

The Kellyville Station Precinct was announced by the NSW Government in August 2014. The precinct is one of number of Priority Precincts which aim to provide for more homes, jobs and improved public spaces close to transport and services. One of the key goals for Priority Precincts is to increase housing choice and affordability by delivering increased housing supply in an environmentally, socially and economically sustainable manner.

The Kellyville Station Precinct covers approximately 437 hectares, and includes the area within an 800 metre radius, or roughly a 10 minute walk, of the new Kellyville Station. The boundary has also taken into account the surrounding road network, natural features, and the development pattern of the area.

The precinct covers two local government areas. Land on the eastern side of Old Windsor Road is located within the Hills Local Government Area, and land on the western side of Old Windsor Road is within the Blacktown Local Government Area.

The vision for the Kellyville Station Precinct is for a vibrant, predominantly residential area offering a mix of housing types within walking distance of the new station, along with local shops, community facilities, and improved open space network.

The Kellyville Station Precinct is a long term project that will be delivered over the next 25 years

1.1 Scope and content of this study

JBA has been engaged by the Department to identify the existing provision of, and future requirements and opportunities for, open space and community infrastructure to meet the needs of the forecast new populations within the Bella Vista and Kellyville Station precinct catchments.

This report relates to the Kellyville Station Precinct. A separate report covers the Bella Vista Station Precinct.

The scope of this assessment includes:

- open space (passive and active);
- recreation facilities;
- multi-purpose community centres;
- libraries; and
- education facilities.

Childcare facilities are not included in this assessment as these facilities are provided for by the private sector within the Hills district. The planning framework established for the precinct will provide adequate opportunities for these facilities to be provided both within the areas proposed to be upzoned as well as in surrounding areas.

Likewise, the need for and provision of healthcare services (public or private) and emergency services is addressed via other processes and is not the responsibility of local government.

The scale and extent of the Kellyville Station precinct requires planning for open space and social infrastructure needs to take a holistic view. Accordingly, this report has also

considered and taken into account the findings of the open space and social infrastructure review being undertaken for the Bella Vista Station and Showgrounds Station Precincts.

The recommendations within this report have informed the urban design and proposed planning controls for the precincts to ensure that appropriate open space and community infrastructure will be provided to meet the needs of the future population.

Approach

This report provides a broad, high level assessment of the existing and proposed future open space and social infrastructure requirements and entails:

- review of the existing state and local planning policy context;
- peer review of existing studies of community and recreation facility needs;
- preparation of existing and future demographic profiles using ABS Census data,
 Department Population and Household Projections and local data sources;
- desktop audit of existing and planned social infrastructure within the Precinct;
- high level assessment of the future demand for local and regional open space and social infrastructure, including the types of facilities, potential for enhancement of existing facilities and likely land take for new facilities;
- identification of potential future requirements for regional open space and social infrastructure (e.g. location, quantum) having regard to the planned and projected incoming population; and
- identification of leading practice in the provision of community facilities and open space planning and developing social planning principles to guide precinct design.

1.2 Report structure

This report is structured as follows:

- Section 1: introduction, report scope and overview of the proposed precinct;
- Section 2: outline of the strategic planning framework applicable to the precinct;
- Section 3: overview of existing demographics, open space and community infrastructure provisions within the precinct;
- Section 4: summary of the projected population and its characteristics under the precinct;
- Section 5: assessment of open space requirements for the incoming population;
- Section 6: assessment of community facility requirements for the incoming population; and
- Section 7: assessment of the education requirements for the incoming population.

1.3 Priority Precinct overview

Priority precincts are areas with good access to existing or planned transport infrastructure and that have potential to provide for significant growth in housing and jobs. The program is based on the following key principles:

- a strategic precinct-based approach (rather than a single site or development);
- close involvement with local government at an early stage and throughout the investigation process;
- precincts located in close proximity to existing and planned transport and service infrastructure;

- comprehensive engagement with the community throughout the precinct investigation process; and
- development controls that are economically feasible and consistent with market demand.

The Kellyville Station precinct offers the opportunity to provide increased housing diversity in the local area as well as a revitalised town centre providing local jobs and services. The proposed Kellyville Station precinct plan is presented at **Figure 1.**

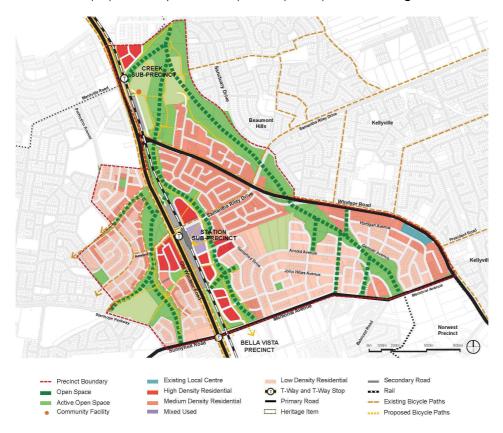


Figure 1 – Proposed Kellyville Station precinct plan *Source: CM+*

2.0 Strategic planning framework

2.1 State level

A Plan for Growing Sydney (2014)

In December 2014 the Department released A Plan for Growing Sydney – the metropolitan plan to guide development over the next 20 years. The plan envisages the metropolitan population of Sydney will grow by 1.6 million people, 900,000 of these living in Western Sydney, and the need to provide an additional 664,000 new homes by 2031.

Goal Three of the metropolitan plan aims to create a great place to live with communities that are strong, healthy and well connected. In order to deliver on this goal, the plan directs the implementation of the Sydney Green Grid project, which provides a metropolitan scale network of cycleways and connections between regional parks.

A Plan for Growing Sydney identifies the Kellyville Station precinct as a "Priority Precinct – major urban renewal" as shown in **Figure 2** below.

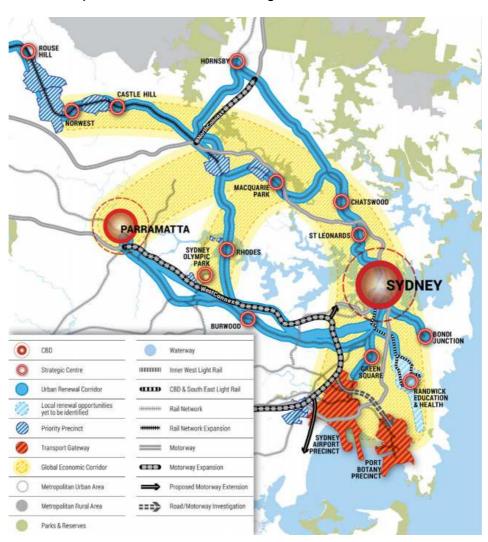


Figure 2 – A Plan for Growing Sydney Source: Department of Planning and Environment

North West Rail Link Corridor Strategy

The North West Rail Link Structure Plan, including Structure Plans for each station and its surrounds, has been prepared to guide development over the next 20-25 years (see Error! Reference source not found.).

The Kellyville Station Structure Plan (**Figure 3**) sets out that the introduction of the NWRL and a station at Kellyville has the potential to further reinforce Kellyville as a major residential area for Sydney's North West. A new station will provide further impetus for Kellyville to evolve as a transit oriented, predominantly residential area offering high, medium and low density housing options as well as local centre shopping.

The Structure Plan also identifies green spaces that will aim to provide attractive open spaces of high amenity for the public (**Figure 4**).



Figure 3 – Kellyville Station Structure Plan Source: Transport for NSW / Department of Planning and Infrastructure



Figure 4 – Indicative location of open space and public domain *Source:* Transport for NSW / Department of Planning and Infrastructure

The Green Grid

Within the context of the NWRL corridor, 265.6ha of existing open space has been identified. Undertaken by the NSW Government Architect's Office, the Green Grid analyses the entire open space network of the Sydney Metropolitan Region and promotes urban greening. This urban greening will provide a spatial framework for regional planning in Sydney. The study aims to increase access to open space at a local, district and regional level. It promotes provision for shared pathways, adaptable open space and connections between town centres using existing open space corridors. It also advocates an appreciation for Sydney's diverse natural and cultural environment, as well promotes the multifunctional nature of the environmental, health, social and economic benefits of open space.

Of relevance to the Precinct's open space planning are the aforementioned general green grid aims, as well as the promotion of sustainable greenspace design, active living and conservation of the natural environment and heritage landscapes

2.2 Local level

The Draft Local Strategy

The draft Local Strategy communicates Council's future plan for the Hills LGA. The document aims to provide certainty and direction to the wider community by outlining a number of state planning objectives, as well as providing a plan to respond to local needs.

The strategy recognises the importance of environmental wellbeing, and the essential role that open space, walking trails and sporting fields play in achieving a sustainable future. Council outlines their commitment to improving existing open space and walking and cycle ways, and the importance that such infrastructure plays in meeting the recreational, cultural and entertainment needs of the population. In addition to this, key directions of the strategy are the provision of diverse and high quality open space facilities, the establishment of an accessible network of connected walking and bike paths and improvements to public domain in order to encourage community use. The strategy also identifies the need for community facility locations to be incorporated into the overall neighbourhood design, to ensure community mix and cater to the population.

There are no specific directions for the Precinct.

Hills Shire Recreation Strategy 2007

The Hills Shire Recreation Strategy 2007 strategy includes an assessment of the community's recreation needs, including both active (organised) sports participation and passive (informal/not organised) participation. Baulkham Hills Shire in 2007 had approximately 416 open space reserves with a total combined area of around 1500 hectares. The strategy identified that there may be a lack of variety in open space provision in specific suburbs.

Under the Strategy, the methodology for open space planning in the Shire, particularly in new release areas such as Kellyville, Rouse Hill and the Balmoral Road Release Area, was changed to be based on a needs analysis as opposed to the historical standard of 2.83 hectares per 1,000 people. The strategy includes an implementation plan includes high priority (1-3 years), medium priority (4-6 years) and low priority (7-10 years) recommendations.

Draft Hills Shire Integrated Open Space Strategy 2014

In 2013, the Hills Shire Council undertook a detailed review of existing open space and the open space needs of the Shire's future population. The draft Hills Shire Integrated Open Space Strategy 2014 was prepared for the consideration of Council. The Open Space Strategy sets out that participation rates in recreation and leisure activities are

unlikely to change over the next 15 years but that due to population, the number of people participating in recreation will increase. The Strategy estimates that more than 80% of the Hills Shire residents are likely to use open space for sporting, physical activity and social activities at least once per year. The participation rate for each activity and the expected number of residents using that open space facility are reproduced in **Table 1**.

Table 1 - Participation rates under the Draft Hills Shire Integrated Open Space Strategy

Open Space Facility	Participation rate	Expected level of use 2031
Off-road trails	54%	135,600
Grass sportsgrounds	19%	47,200
Swimming pools	14%	35,400
Tennis / netball / courts	10%	24,700
Skate parks	7%	18,500
Golf courses	6%	15,400
Bushland recreation area	6%	14,400
Waterway / lake	3%	7,400
Lawn bowls greens	2%	4,600
Outdoor basketball courts	2%	3,900
Motorsport	1%	2,900
BMX track	1%	2,800
Hockey facility	1%	2,700
Target sports facilities	1%	2,000
Equestrian facilities	1%	2,000

The Open Space Strategy sets out that school-aged children are the largest users of public open space, especially active outdoor space. The Strategy projects that this age group will continue to account for 22% of the population of the Shire. Conversely, the strategy sets out that young adults (20-34 years) make up only 18% of the Shire's population and require a different range of recreation facilities, located between home and work. Older people (aged 65 years and over) make up approximately 12% and an increasing proportion of the population. There is an increasing need for parks and trails to encourage older people to remain active and social later in life.

Social Infrastructure Discussion Paper

Council's Social Infrastructure Discussion Paper outlines potential opportunities for the Precinct as a result of its forecasted population growth. The paper suggests the opportunity for the establishment of a bicycle lane through the Precinct in order to meet recreational demand, and the possibility of a multipurpose facility to be used for conferences, concerts and elite sporting events. Council suggests that a number of 'cultural actions' are to be undertaken in the following years, including the integration of the principles outlined in the Cultural Strategy with any plans for the Castle Hill Showground.

Cultural Plan for Baulkham Hills Shire

The Cultural Plan for the Baulkham Hills Shire contains a number of strategies to further the cultural, social, economic and environmental development of the LGA. A main focus of the document is to interact with the community, and work towards building a strong identity by bringing together people and place. The plan's goals

involve the creation of a place that is liveable and inspiring, perfecting a balance between private learning opportunities and public creative expression, and planning for healthy cities. The underlying principles and goals set out by Council through the Plan should remain central in current and future strategies for the Precinct.

Recreation Strategy

Introduced in 2007, Council's Recreational Strategy assesses the recreation needs of its community. The study involves an analysis of the area's demographic characteristics, trends found in the level of sport participation, current levels of open space provision, and the supply of recreational facilities. The strategy identifies and categorises the needs of the community in regards to recreation facilities. These involve issues such as the need for building upgrades and increased community awareness of sport opportunities.

Taking into consideration the findings of the strategy, plans for the Precinct must address these issues in order to ensure that the needs of The Hills LGA community are met

Tracks and Trails Strategy

The Tracks and Trails Strategy outlines a number of principles to improve existing pedestrian and cycle networks throughout The Hills LGA. The Strategy provides a brief analysis of the networks already in existence, stating that older suburbs are less likely to have an integrated footpath and cycleway network, and that the opportunity to develop walking trails in order to add to recreational experiences is evident. The current cycleway throughout the Precinct is made up of both on and off-road paths, although continuous interruptions to the cycle network is evident. Similarly, areas within the Precinct are lacking footpath infrastructure.

Through an improved pedestrian and cycle network, Council aims to provide opportunities for the wider community to participate in a healthy and active lifestyle. In order to achieve a successful pedestrian and cycleway network, it will be essential to incorporate a number of principles, including the provision of safe and attractive tracks and trails, the creation of walkable neighbourhoods, the fostering of community spirit, the establishment of accessible walking and cycling networks, and promotional strategies to encourage all members of the community to get active. The Strategy ensures that incorporating these principles into a policy will be essential in achieving the vision of enabling healthy lifestyles.

Bike Plan Review

Council's Bike Plan Review provides an analysis of current and future demands of bicycle riders in The Hills LGA, with the aim of creating an environment in which cycling is made easier and more attractive.

At present, cycle ways run along Carrington Road, Victoria Avenue and Windsor Road. Additionally, many bicycle pathways can be found inside Fred Caterson Reserve, consisting of both unsealed and concrete paved routes.

When looking specifically to the Precinct, there appears to be a lack of cycle ways connecting the surrounding open space areas. The review identifies areas such as Castle Hill as a prime location for urban renewal strategies to promote cycle ways and greater bicycle accessibility in order to reduce reliance on cars.

Two roads within the Precinct are identified in the review of dangerous cycling locations and environments; Windsor Road and Showground Road. Both are currently considered dangerous due to: speeding cars and trucks; a lack of safe crossing points; poor road surfaces; and dangerous intersections.

Balmoral Road Release Area Section 94 Plan No. 12

The Balmoral Road release area is located partly within the Precinct. The Hills Shire Contributions Plan No. 12 – Balmoral Road Release Area came into effect on 26 September 2006. This plan levied residential development within the area to which the plan applies to provide local infrastructure to service the incoming population. The Balmoral Road Section 94 Plan planned for a projected population growth of approximately 13,012 residents by 2021. The Hills Shire Contributions Plan No. 12 – Balmoral Road Release Area identified open space and community facilities that would be funded through the collection of levies under the plan.

The plan identified the need for 35.8 hectares of additional open space which was broken down as follows:

- 27.66 hectares of district open space;
- 4.42 hectares of local open space;
- 3.43 hectares of greenway links and pedestrian connections.

The Plan also set out the following community facilities:

- Kellyville Park Community Centre;
- Indoor Recreational Centre Kellyville Park;
- Indoor Recreational Centre Burnie Mullane Sports Complex; and
- Expansion of Rouse Hill Regional Centre library.

3.0 Existing situation

3.1 The Kellyville Station precinct

The Kellyville Station Precinct covers an area of approximately 320 hectares of land in Sydney's north-west.

The precinct is focussed around the Kellyville Station of the NWRL, currently under construction. The precinct is predominantly within the Hills Shire Council area, with parts of the precinct extending into the Blacktown Council area.

The precinct is bound to the south by Memorial Drive, running east-west between Windsor Road and Old Windsor Road. Old Windsor Road, dissecting the western portion of the precinct, provides connection to Seven Hills Road and the M7 Motorway.

Adjoining the precinct to the north is the new Rouse Hill town centre, providing local services including retailing, library, community hub and pool. The precinct contains a portion of the Norwest Business Park and covers approximately half the area of the Balmoral Road Release Area – a low density residential land release area. The Balmoral Road Release Area is in the early stages of development with small pockets of residential development currently under construction. The precinct also covers the recent low density residential development of Beaumont Hills and Stanhope Gardens.

3.2 Community profile

Population characteristics

In 2011, the Kellyville Station precinct area had a population 7,924. The area has a large percentage of school aged children (27%) and a median age of 32 years. 41.4% of residents were born overseas and a further 69.1% of residents had one or both parents born overseas.

Demographic information prepared by the Department provides that the precinct's age profile mirrored that of The Hills as a whole. Even though a proportion of the Kellyville Station population lives in the Blacktown LGA, there is no similarity to Blacktown's age profile. Therefore, comparison in **Table 2** has been made between the Kellyville precinct area, The Hills Shire and the Sydney Statistical Division.

Table 2 - Key demographic features

Characteristic	Kellyville Station precinct area		The Hills Shire		Sydney Statistical Division	
	Number	Percentage	Number	Percentage	Number	Percentage
Under 15	2,148	27.1%	36,877	21%	801,837	19%
15-39	3,125	39.4%	57,887	33%	1,622,604	38%
40-64	2,251	28.4%	61,745	34%	1,336,048	31%
65+	400	5%	20,505	11%	525,728	12%
Median Age	37.6		32.7		35.7	
Born Overseas		41.4%		33.6%		38%
Language other than		37%		29%		37%

Characteristic	Kellyville Station precinct area		The Hil	lls Shire	Sydney Statistical Division	
	Number	Percentage	Number	Percentage	Number	Percentage
English spoken at home						
Tertiary Educated		44.8%		60.3%		54.9%
Unemployment		4.7%		4.1%		5.7%
Housing Stress		39.4%		40.9%		44.7%
Median annual household income	\$104,000 - \$129,999 per year		Not provided		\$65,000 - \$77,999 per year	

Household Characteristics

The key household characteristics for the Kellyville Station precinct are presented in **Table 3**. In 2011, the Kellyville precinct had an average household size of 3.3 people. This is substantially higher than the Sydney average of 2.69 persons per household. This is further explained by the dwelling characteristics of the area with 92% of the population living in detached dwellings, 4% in semi-detached or townhouse style dwellings, and 4% living in apartment buildings within the area.

In the Kellyville Station precinct, 72% of households own two or more vehicles. A further 27% of households own one car. This accounts for a large private vehicle dependency within the area, with 78% of households driving to work, compared with the Sydney average of 67%.

Table 3 – Key household characteristics

Characteristic	Kellyville Station precinct area		The Hills Shire		Sydney Statistical Division	
	Number	Percentage	Number	Percentage	Number	Percentage
Lone person		7%		8%		22%
Multiple and other		5%		3%		3%
Couple no children		20%		24%		22%
Single parent		9%		8%		10%
Couple with children		55%		50%		35%
Average Household size	3.28		3.09		2.69	
Apartments		4%		5%		30%
Semidetached/Townhouse		4%		11%		13%
Detached dwelling		92%		84%		57%
Rented		21%		16%		33%
Owner occupier		79%		84%		67%

Forecast Population Change

The Australian Bureau of Statistics and the Hills Shire Council have prepared population and dwelling forecasts for the suburbs of Kellyville and Beaumont Hills (both laying

within the Kellyville Station precinct) to 2031. The combined area is expected to contain an additional 9,399 by 2031 taking the total dwellings to approximately 18,030. This increase, despite a falling household size, will result in an increase in population of 27,069 taking the total population to approximately 56,348 people. The number of school aged children within the area is expected to increase by 5,220 children and the number of people aged 65 and older is expected to increase to 11% of the population. The projected age profile of the area is presented in **Figure 5**.

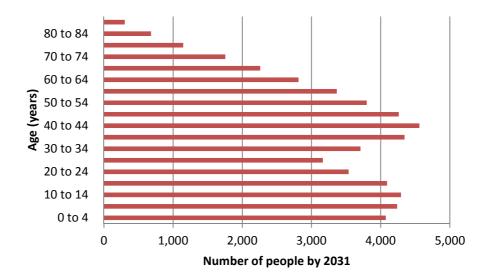


Figure 5 – Population pyramid by 2031

Source: .id and JBA

3.3 Existing open space and community facilities

A significant number of existing facilities are located within and immediately surrounding the Bella Vista Station and Kellyville Station precincts. A summary of the existing open space and community facilities are presented in **Table 4**. The location of facilities is presented in **Figure 6**.

Existing facilities range from sporting ovals and complexes, to informal recreation areas with playgrounds and barbeque facilities, to large corridors primarily servicing as drainage networks but providing off-road trails and links through the area. Examples of existing open space within and surrounding the precinct are presented in **Figure 7** and their location is shown in **Figure 8**.

Table 4 – Existing open space, recreation and community facilities

Type of Facility	Number			
Active Open Space				
Playing Fields and Ovals	40			
Courts	30.5			
Skate Parks	1			
Passive Recreation Areas				
Number of parks	15			
Playgrounds	12			
Off-Road Networks and Trails				
Number of trails	10			
Total Distance	16 kilometres			
Riparian Corridor				
Total area (SP2 zoned land)	157 hectares			
Indoor Recreation Facilities				
Number of facilities	2			
Community Facilities/Spaces				
Number of facilities	6			

Under its contributions plans, The Hills Shire Council is also planning on the delivery of a number of additional, or the embellishment of existing, open spaces and community facilities. This includes the acquisition of land for the new Arnold Avenue district park, the extension of Kellyville Park and the upgrade of Burns Road Park.

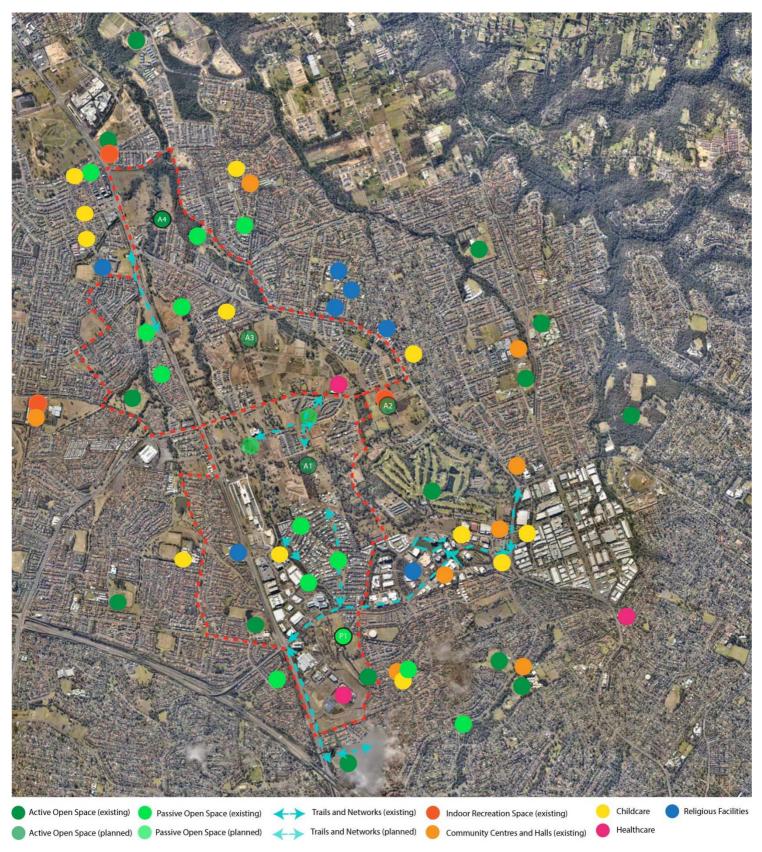


Figure 6 – Existing open space and community facilities *Source: Nearmap and JBA*

A3 – Arnold Avenue Sporting Complex

Arnold Avenue Sporting Complex was identified as a new district park to be provided through Contributions Plan No. 12. The new facility will have an area of approximately seven hectares and provide a cricket oval for the summer season and two soccer fields during the winter season. The facility will also provide an at grade car park, amenities and informal open spaces. The master plan for Arnold Avenue Sporting Complex is presented at **Figure 8**.

A4 – Caddies Creek Sporting Complex

The Caddies Creek site was identified by the Hills Shire Council as a potential location for a new sporting facility to serve the growing population of Kellyville. The site is located on land owned by Sydney Water that will be leased to Council. Council has developed a master plan for the Caddies Creek Sporting Complex that includes one cricket oval, three playing fields, baseball diamond and general amenities (see **Figure 9**).





Riparian Corridor

The Outlook Nature Reserve

Figure 7 – Examples of existing open space *Source: JBA*



Figure 8 – Arnold Avenue sports complex

Source: The Hills Shire



Figure 9 – Proposed Caddies Creek sporting complex *Source: The Hills Shire*

3.4 Existing educational facilities

Within the precinct and the area immediately surrounding are a number of primary and secondary schools operated by both the private sector and the NSW Department of Education and Communities. These existing facilities are summarised in **Table 5**.

Table 5 – Existing schools within and surrounding the precinct

Name	Address	Public/Private
Primary		
Crestwood Public School	38 Peel Rd, Baulkham Hills	Public
Parklea Public School	205 Glenwood Park Dr, Glenwood	Public
Kellyville Ridge Public School	Greenwich St, Kellyville Ridge	Public
Beaumont Hills Public School	The Parkway, Beaumont Hills	Public
Kellyville Public School	35A Windsor Rd, Kellyville	Public
Ironbark Ridge Public School	Ironbark Ridge Road, Rouse Hill	Public
John XXIII Catholic Primary School	160 Perfection Ave, Stanhope	Private (Catholic)
Our Lady of the Rosary Primary School	8 Diana Ave, Kellyville	Private (Catholic)
St Angela's Primary School	40 Harrington Avenue, Castle Hill	Private (Catholic)
Secondary		
Crestwood High School	17 Chapel Ln, Baulkham Hills	Public
Glenwood High School	Forman Ave, Glenwood	Public
Tallowood School	44 Redden Dr, Kellyville	Public
Kellyville High School	York & Queensbury Avenue, Kellyville	Public
Rouse Hill High School	105 Withers Road, Rouse Hill	Public
K-12		
William Clarke College	1 Morris Grove, Kellyville	Private (Anglican)
St Michael's School	5 Chapel Ln, Baulkham Hills	Private (Catholic)

4.0 Projected population growth

4.1 The draft Kellyville Station precinct

The draft Kellyville Station precinct envisages an additional 4,300 dwellings within the Precinct over the next 20 years. Growth is planned to occur in a series of large opportunity sites located close to the rail station and areas of highest amenity such as parkland and open space. Arnold Avenue was initially considered as a potential candidate to accommodate additional dwellings. However, this area was removed from further consideration following research that showed the vast majority of land in this area was already either occupied by dwellings or approved for dwellings. Increased building bulk and scale associated with increased FSR and heights would likely result in poor amenity outcomes for existing development.

An average occupancy rate of 2.1 people per dwelling is utilised to determine future population. Whilst the final dwelling mix and sizes will vary over time, this assumed occupancy rate provides a reasonable estimate considering the location and form of the proposed housing under the precinct. This occupancy rate is generally consistent with that used in other comparable precincts around Sydney.

In other parts of the precinct a number of additional dwellings have either been recently constructed or are planned for development. The open space and community infrastructure needs of these residents will be met through council's provision of facilities identified in its development contributions plan.

Non-residential population growth

2,170 jobs will be accommodated in the precinct by 2036. This is broadly in line with the expectations of the Structure Plan.

Projected demographic characteristics

The demographic characteristics of the incoming population is expected to differ from that of a traditional suburban demographic profile. Based on the analysis of similar precincts around Sydney, research undertaken by Hill PDA¹, anticipated the following characteristics within the incoming population:

- increased working aged residents (ie 15-44 years);
- increased multiculturalism –with new migrants being attached to living within close proximity to a railway station and apartment style living;
- increasing professional working couples without children; and
- increased skilled labour force.

These characteristics have an influence on the type of open space and community facilities to be provided.

¹ Hill PDA (2014), North West Rail Link Market Research

5.0 Open space and recreation

5.1 Open space provision

The Kellyville Station precinct proposes to provide an additional 11.18ha of open space within the Precinct (see **Figure 10**). This includes 2.68ha of passive open space and 8.5ha of active open space. This is in additional to the existing 155.8ha of active and passive open space, and 2.2ha of other open space such as areas used for revegetation. Selected key public spaces are described in greater detail below.

Existing & Committed	
Passive	134.2
Active (Caddies Creek, Arnold Avenue and Stanhope Gardens)	21.6
Sub-Total	155.8
Proposed New Passive	
Civic Plaza	0.13
White Hart Inn	0.15
Local Neighbourhood Parks (x3 @0.8ha each)	2.4
Sub-Total	2.68
Proposed New Active	
Sport Field (augmentation of Caddies Creek Reserve)	5.7
Courts Precinct	2.8
Sub-Total	8.5
Other	
Vegetation, parking etc under viaduct	2.2
Sub-Total	2.2
Total	169.18

The distribution of existing and proposed new public open spaces will mean that dwellings within the precinct will be located within a 800m distance of a publicly accessible open space.

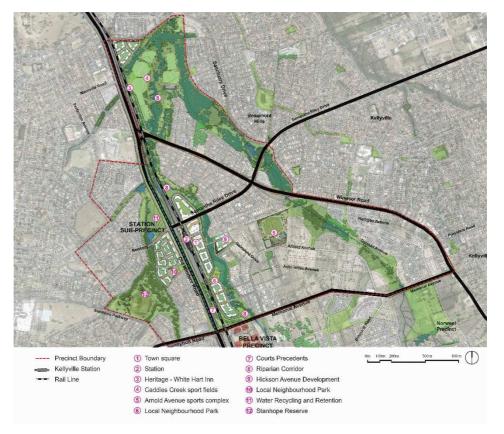


Figure 10 – Proposed open space provision *Source: CM+*

Caddies Creek Sporting Complex extension

The precinct proposal caters for an extension to the Caddies Creek Sporting Complex. This will be in the form of a logical extension from the proposed baseball diamond on the north-west portion of the complex. The extension will provide approximately 5.7ha of additional open space, including:

- Additional AFL/cricket /football oval;
- Amenities building(s);
- Pedestrian/cycle connections;
- Heritage interpretation area;
- BBQ and picnic facilities;
- Playgrounds;
- Dog off leash areas; and
- Seats, bins, bubblers.

Part of the additional space is located beneath the rail corridor so as to maximise the utilisation of this space.



Figure 11 – Example of the type of open space that may be established in the Caddies Creek Sporting Complex extension

Civic plaza

The precinct proposal includes the provision of a civic plaza adjacent to Kellyville Station. At 1,300m², the civic plaza will provide a formal and informal meeting space for the community and an opportunity space for local community events. Bordered by active uses including cafes, eateries, local shops and a community/civic space, the civic plaza will aim to provide:

- Public art/water feature
- Shade planting or shade structures
- Hard and soft landscaped areas
- Furniture
- Lighting.



Figure 12 - Precedent examples of a civic plaza

Arnold Avenue Neighbourhood Park

The precinct includes a neighbourhood park located within the Arnold Avenue area. This park would serve the increase in residential density within the immediate vicinity and compliment the already proposed Arnold Avenue Reserve sporting fields. The proposed park, at approximately 6.9ha would primarily consist of passive open space areas, including off-leash dog areas, playgrounds, BBQ and picnic facilities. The park would provide a green connection to both Arnold Avenue Reserve and Kellyville Station with proposed off-road pedestrian and cycle path. While not included in the calculations for new public open space, its size, type and location proximate to the opportunity sites will mean that it will service the incoming population.





Figure 13 – Example of the type of open space that may be established in the Arnold Avenue Neighbourhood Park

6.0 Needs assessment

6.1 Assessment of adequacy

Assessment of the adequacy of proposed open space for an incoming population is a complex process that requires balanced consideration of a range of quantitative and qualitative criteria.

To guide this process, the former NSW Department of Planning published the *Recreation and Open Space Planning Guidelines for Local Government* (the Guidelines). These guidelines have become the NSW standard for open space planning within communities.

The key directions of these guidelines have been adapted to inform assessment of the proposed open space within the Kellyville station and Bella Vista station precincts. Key criteria used in this assessment have included:

- amount;
- type and role;
- distribution;
- quality;
- demographics, in particular trends; and
- benchmarking with other similar renewal locations.

Amount

Since the mid-20th century, the provision of open space in most new NSW communities has largely been based on quantifiable numerical benchmarks². These benchmarks often took the form of a rate of open space per head of population or in some cases a percentage of land to be allocated for such purposes as part of subdivision. The current default in many parts of NSW is a rate of 2.8ha per 1,000 new residents. This rate features in a number of planning frameworks, including the NSW Government's Growth Centres Code and local government open space strategies and development contributions plans³. As an alternative, the Guidelines suggest a default rate of 15% of non-industrial land be allocated for open space purposes.

Type and role

The Guidelines suggest that a variety of open space types and roles is required within an area.

Typical types of open space are:

- Parks;
- Linear and linkage; and
- Outdoor sport.

City of Canterbury 2010, Strategic Recreation Plan

Marrickville Council 2011, Recreation Needs for Marrickville

Stratcorp 2006, Woolhara Recreational Needs Assessment and Strategy

² A.J. Veal, University of Technology Sydney 2009, Open Space Planning Standards in Australia: in Search of Origins: U-Plan Project Paper 1

³ Bankstown City Council 2012, Open Space Strategic Plan 2022

This refers to the main function of the open space. Within this main function, a range of other functions can be accommodated. This includes whether the space is catering for active uses, eg ball kick about space, walking and cycling, passive uses, eg seating, and whether it is aligned with a natural feature such as a creek or other waterbody.

Typical roles are:

- Local;
- District; and
- Regional.

This refers to the catchment size for which the open space caters.

Distribution

Distribution is a good measure of accessibility. Locating public open space within a walking distance of homes is likely to increase the patronage of these open spaces, and increase the likelihood of patrons walking or cycling to the open space which has attendant health benefits and extends the length of the recreational activity. It is particularly important where rates of car ownership are low or for older or mobility challenged persons.

The Guidelines identify the following distribution criteria.

Table 6 - Distribution criteria

Туре	Role	Distance from most dwellings (m / km)
Parks	Local	400m
	District	2km
	Regional	5 – 10km
Linear and linkage	Local	N/a
	District	N/a
	Regional	5 – 10km
Outdoor sport	Regional	1km
	Regional	2km
	Regional	5 – 10km

Another good measure of accessibility is ensuring that residents are located within a comfortable walking distance, usually up to 10 minutes (800m) of an open space.

Quality

Providing for quality open space is important in areas that are undergoing substantial growth and change such as the precinct. Quality is affected by a number of factors, including:

- Useability;
- Layout and design;
- Facilities; and
- Maintenance.

In particular, open space should not be located on constrained land that is subject to issues such as steep topography, frequent flooding, bushfire risk or contamination.

Demographics

Review of Australian Bureau of Statistics data has identified that there is a number of broad societal trends that hare currently occurring throughout Australia that have an impact on open space planning⁴. These changes include:

- a growing population;
- changing population composition;
- emergence and increased use of technology, including at home;
- longer working hours and consequent reduction in leisure time; and
- families with both adults working.

Based on recent Department research⁵, the Sydney metropolitan region is also experiencing a number of key demographic changes. These include:

- greater proportion of older person (aged 65 +);
- smaller household size, with an increase in couple only and lone person households; and
- more people born overseas.

Hill PDA was commissioned by UrbanGrowth NSW to undertake research into the demographic characteristics of recent, comparable precincts in the Sydney metropolitan region⁶. Their findings indicated that in such areas, there are:

- more working aged residents;
- more professional working couples (15-44) without children;
- more people born overseas;
- less traditional nuclear families;
- more skilled workers, in particular managers and professionals;
- less vehicle ownership; and
- more renters.

Recreation participation and trends

These demographic changes are having an impact on the use of public open space, in particular recreation participation characteristics.

The Australian Bureau of Statistics data and the Australian sports commission administered Exercise, Recreation and Sport Survey (ERASS) which ran from 2001 to 2010 provide an insight into these changes⁷⁸.

Recreation participation patterns have changed significantly in the past 10 years.

In 2010, 82.3% of Australians aged 15 years and over participated in at least one physical activity for exercise, recreation or sport in the previous 12 months. This was a

⁴ Australian Bureau of Statistics 2014, Population by Age and Sex, Australia, States and Territories

⁵ NSW Department of Planning and Environment 2014, NSW Population, Household and Dwelling Projections

⁶ Hill PDA 2014, North West Rail Link Market Research Advice

⁷ Australian Sports Commission 2010, Exercise, Recreation and Sport Survey

⁸ Marrickville Council 2011, Recreation Needs for Marrickville

significant increase from the 77.8 per cent recorded in 2001. Walking was the most popular activity for both males and females, with 35.9 per cent of the population participating at least once in walking for exercise, recreation or sport in 2010. Walking was also the most frequently participated in activity (averaging 3 times per week) with aerobics/fitness, weight training and running averaging twice per week. Other activities popular with both males and females included aerobics/fitness, swimming, cycling, running, golf tennis and bushwalking

The recreation survey demonstrated that regular participation was much higher for non-organised activities (38.5 per cent) than it was for organised activities (12 per cent).

One of the most prominent trends has been a high growth in individual fitness activities including walking (for pleasure and fitness), swimming, aerobics/fitness programs, weight training and cycling. There has also been substantial growth in other non-team/non-club activities, such as aerobics/fitness, cycling and running (and parallel declines in more traditional activities such as swimming, tennis and golf)

Overall, the increase in participation in organised physical activity participation in NSW since 2001 (8 per cent) has been slightly lower that the relevant population (15 years+) growth in the same period (10 per cent).

Benchmarking

Comparison with other areas within Sydney currently undergoing renewal for additional homes and jobs in higher density settings is also useful. The following table provides an overview of open space provision in selected brownfield and infill renewal locations.

Table 7 – Open space benchmarking

Precinct	Open Space 1,000 population	Features
Rhodes Peninsula	0.87ha/1,000 population	Cycleways and pedestrian routes through foreshore reserve and public streets
		 Bicycle parking station for 200-300 bicycles Network of open space along foreshore
		Multi-purpose community centre
		Town Square
Epping Priority Precinct	0.12ha/1,000 population	 Hornsby Shire Council is considering works including an extension and upgrade to West Epping Park
		 Parramatta City Council is considering a range of upgrades to the public domain
Harold Park	1.9ha/1,000 population	Public open space
		Common open space
		 Landscaped streetscapes
		Green roofs
Wolli Creek (Discovery Point Precinct)	0.87ha/1,000 population	District Park totalling 2.3ha with frontage to Cooks River
		 Local and neighbourhood parks including open space above the railway line and within a civic village square
		Cooks River revitalisation

Precinct	Open Space 1,000 population	Features
Central Park Broadway	0.17ha/1,000 population	 District and neighbourhood pocket parks Street landscaping including a shared path network with local area connections
St Leonards (Forum)	0.194ha/1,000 population	 Terraced public open space with water feature and seating Direct access to local retail and café uses
Sydneygate, Waterloo	0.07ha/1,000 population	 Informal passive open space Waking paths Landscaping and street furniture, including seating Linear connection with broader open space network

As can be seen from these examples, the rate of open space provision per head of new population is substantially less than that specified in traditional quantitative standards. This is particularly the case in infill locations such as Epping. This reflects the difficulty in providing new open space, in particular large, land intensive playing fields, in renewal locations due to land fragmentation. Furthermore, the provision of such open spaces would need to occur at the expense of homes and jobs, which is arguably against the primary purpose of creating growth precincts. This demonstrates that the application of traditional, quantitative standards to more urban, transit oriented development contexts is inappropriate, and a more multi-faceted, qualitative approach is needed. In particular, this involves consideration of social infrastructure as well as open space.

The table also shows that in these areas the focus on new open space has been on centrally located urban open spaces such as plazas, linear open space corridors, often including walking and cycling facilities and aligned with waterways, and upgrades to the public domain.

6.2 Implications for open space planning in the precinct

The application of traditional quantifiable standards to TOD contexts is inappropriate for a range of reasons, including:

- the origins of such controls in the earlier part of the 20th century and their application to greenfield, lower density settings;
- different demographics and lifestyle preferences;
- limited evidence supporting the specified rates;
- application of a simplistic, one size fits all method that does not account for individual local context and character differences;
- the frequent lack of correlation between amount and quality of open space; and
- failure to account for the challenge of delivering new open space in established communities such as precincts that are undergoing renewal.

Rather, these quantum standards are a useful starting point. It is only in combination with other factors such as type and role, distribution, quality, responsiveness to forecast future demographics and emerging trends and comparison with other similar renewal locations that a fair assessment of adequacy can be made.

Table 8 provides an overview of the open space outcomes for the Kellyville and Bella Vista precincts. Note that this is a nett figure which is adjusts the total population to account for existing and planned dwellings.

Table 8 – Assessment against traditional quantum standards

Precinct	Nett additional population	Nett additional dwellings	Proposed new open space (ha)	Ha/1,000 nett additional people
Kellyville	7,447	3,546	11.18	1.5
Bella Vista	5,792	2,758	18.14	3.13
Combined	13,239	6,304	29.32	2.32

Despite not achieving traditional quantitative standards, the proposed open space network performs well when assessed against other comparable renewal precincts. The quantum of open space in the precinct significantly exceeds that of the nearest benchmarked precinct, which is Harold Park at 1.9ha/1,000 population.

Despite not achieving traditional quantitative standards, the proposed open space network performs well when assessed against other comparable renewal precincts. The quantum of open space in the precinct significantly exceeds that of the nearest benchmarked precinct, which is Harold Park at 1.9ha/1,000 population.

Based on a benchmark of 0.5ha for active open space by way of sporting fields and courts, **Table 9** indicates the quantum of active open space required in the Kellyville Station Precinct whilst considering the trends and participation rates discussed in Council's 'Integrated Open Space Plan' 2014.

Table 9 - Assessment against participation rates

Outdoor facility type	% of the population wanting to use type of open space	Number of residents wanting to use type of open space	Quantum of Open Space required per nett additional people in Kellyville (0.5ha/1000person)
Off-road trails	(48.2%)	3,549.93	1.74ha
Grass sportsgrounds	(16.8%)	1,237.32	0.62ha
Swimming pools	(12.6%)	927.99	0.46ha
Tennis / netball / courts	(8.8%)	648.12	0.32ha
Skate parks	(6.6%)	486.09	0.24ha
Golf courses	(5.5%)	405.08	0.20ha
Bushland recreation area	(4.9%)	360.89	0.18ha
Waterway / lake	(2.6%)	191.49	0.10ha
Lawn bowls greens	(1.6%)	117.84	0.06ha
Outdoor basketball courts	(1.4%)	103.11	0.05ha
Motorsport	(1%)	73.65	0.04ha
BMX track	(0.9%)	66.29	0.03ha
Hockey facility	(0.96%)	70.70	0.04ha
Target sports facilities	(0.72%)	47.51	0.02ha

Outdoor facility type		Number of residents wanting to use type of open space	Quantum of Open Space required per nett additional people in Kellyville (0.5ha/1000person)
Equestrian facilities	(0.72%)	47.51	0.024ha

On the basis of a more qualitative based approach and using a representative quantitative figure, the active recreational standards and estimated needs indicated in the 'Integrated Open Space Plan' and the indicative standards for the provision of recreational facilities in the Department's 'Draft Development Contributions Guidelines', are not appropriate for the context of the study areas.

The open space proposed for the precinct is appropriate on a number of grounds, including:

- distribution;
- useability;
- quality;
- responsiveness to demographics and recreation trends; and
- highest and best use of land.

Distribution

In terms of distribution, all proposed new dwellings will be located within a comfortable 5 minute walk (400m) of an open space (refer **Figure 14**). The accessibility of the proposed open space will be increasingly important to the forecast future population due to an increase in the number of older persons, lesser ownership of private motor vehicles and less leisure time.



Figure 14 – Open space distribution *Source: Context*

Useability

The proposed network incorporates a broad range of open, ranging from district level outdoor sports parks at Caddies Creek to local parks such as the civic plazas at each town centre. In particular, the precinct will be served by an extensive and connected network of linear and linkage parks largely aligned with riparian corridors.

Useability

The proposed open space network is not located on areas of significant physical constraint. While parts of the network are affected by flooding, this is for the one in one hundred year event.

Quality

The increase in population will provide contributions from developers that can be used to upgrade the quality of existing open spaces, and the provision of new high quality opens spaces. This potentially includes a range of new facilities and infrastructure, such as amenities blocks and furniture such as seating and lighting. The alignment of most of the linear and linkage open spaces with riparian corridors will also provide them with enhanced amenity. Much of the perimeter of most open spaces will be adjoined by public roads, providing a high lev el of physical and visual permeability, providing more accessible and safer recreation spaces. Particular attention will be afforded to the layout, design and embellishment of the civic plazas as important community and social gathering places.

Responsiveness to demographics and recreation trends

Demographic changes and recreation participation and trends will have an impact on the use and planning of open space. In particular, the increase in working age residents and older persons, corresponding decline in the proportion amount of school age children and broad societal trends such as longer working hours resulting in a more time poor population will result in greater demand for open space that cater for informal recreational activities such as walking. Informal activities such as walking can be well accommodated in the proposed extensive and connected linear and linkage corridors. Further, the increase in time poor, working age people will place greater demand on facilities that have more flexible opening hours such as indoor recreation facilities, including fitness centres and gymnasiums. Time poor working age people may also choose to access open space and recreational facilities closer to their workplaces as well, many of which will be located outside of the precincts.

The increase in people born overseas, and the consequent increase in multi-cultural, will increase demand for spaces that can accommodate non-traditional recreational activities. These activities often tend to be suited to smaller, indoor spaces rather than large outdoor spaces such as playing fields. This can be potentially provided for in the two indoor activity / community spaces proposed for the Bella Vista precincts.

Conversely, while still popular, these changes and trends will likely result in less demand for open spaces such as large playing fields that cater for traditional organised sporting activities. Despite this, the Caddies Creek sporting complex will be augmented with the provision of a new outdoor multi-purpose sports fields that could cater for AFL, cricket and / or football. The scale of the Caddies Creek sporting complex will cater for a district wide catchment, and as such service both the Kellyville and Bella Vista precincts.

The increase in older persons and lone person households will create demand for open spaces that can facilitate informal community interaction and socialising. The provision of a centrally located civic plaza in each precinct, which has the potential to be colocated with a community centre, can foster this outcome.

Highest and best use of land

The main purpose of the Priority Precinct program, which has been reflected in planning for Kellyville and Bella Vista, is the creation of more homes and jobs in accessible locations close to public transport, in this case rail. Delivery of this outcome requires careful consideration of the highest and best use of and, with the most accessible land closest to public transport being allocated for homes and jobs, supplemented by open space and community facilities. The allocation of large areas of land for land intensive sporting fields in these locations does not represent the highest and best use of land, particularly where there are suitable alternative locations closely. The proposed opens space network provides a range of smaller, accessible opens spaces within and close to the growth precincts, makes innovative sue of otherwise land under the rail viaducts for recreation uses and makes existing open space work harder through augmentation and embellishment, in particular through the proviso of an additional multi-purpose outdoor sporting field at Caddies Creek. On this basis, the proposed planning framework, including the open space network, is considered to represent a fair balance of land use, and highest and best use of land given density, height and other key parameters.

6.3 Conclusion

The precinct, both in terms of its setting and design, is consistent with the principles of transit oriented development (TOD). The application of traditional, quantum based standards for the provision of open space largely relate to greenfield, lower density contexts, and as such are not appropriate to TOD settings. This is evidenced in benchmarking with comparable precincts in the metropolitan area, which has demonstrated that substantially lesser amounts of land is provided for the purposes of public open space., However, this benchmarking has also shown that this is offset by the high quality and useability of open space that is provided, with extensive facilities for increasingly popular activities such as walking and cycling being provided and embellishments such as public art, seating, lighting being common. Based on a balanced consideration of performance against more traditional evaluation criteria such as amount, other factors such as distribution, the likely needs of the future community based on observed societal and demographic changes, difficulties in delivering open space in renewal locations and the primary aim of the Priority Precinct program to deliver more homes and jobs close to rail, the proposed open space network is considered to be adequate to cater for the likely recreation needs of the incoming community such to consideration of the recommendations in Section 6.4 of this report.

6.4 Recommendations

Principles

Based on the needs assessment, it is recommended that the following principles be considered in any future open space planning and design for the precinct:

- connected provide an integrated network of open spaces
- accessible ensure most people are able to comfortably walk to an open space
- diverse provide for a variety of open space and recreation experiences
- safe provide high levels of surveillance from public roads and adjoining buildings
- attractive ensure open space is well designed and maintained
- **flexible** ensure open space is configured to cater for a range of activities and is sufficiently robust to accommodate usage pressures
- innovative ensure open space makes use of different, including the use of otherwise underutilised land

Initiatives

These principles can be translated into a number of initiatives:

- ensure the open space network caters for a range of passive and active recreation activities
- prioritise the accommodation of activities with the greatest participation rates and / or those that show a sustained increased in participation rates such as walking in the linear and linkage open spaces
- extend the existing Caddies Creek sporting complex through the provision of an additional sporting fields that cater for a district catchment
- provide a centrally located civic plaza within each of the precincts relative to the rail station and town centres, ideally co-located with an indoor community or recreation facility
- consider upgrades to existing sporting fields to more robust synthetic surfaces
- designate otherwise underused land under the rail line for recreation purposes
- provide flexible and adaptable open spaces.



Linear open space corridors



Children's play equipment



High quality public domain

Figure 15 – Examples of open space *Source: JBA*

High quality public domain

7.0 Community facility requirements

7.1 Overview

Community facilities includes facilities such as multi-purpose community centres, meeting rooms, performance spaces, community hubs and libraries. The planning for new community facilities is typically based on the following hierarchy of population catchments:

- neighbourhood level facilities: such as local community centres that cater for a local population of around 5,000 to 10,000-15,000 people;
- district level facilities: such as libraries that cater for a larger population catchment of between 15,000 and 50,000 people; and
- regional level facilities: such as major cultural centres that cater populations of 50,000 / 100,000+.

Given these population parameters it is necessary to consider the combined Kellyville and Bella Vista precincts together when planning for community facilities as well as their surrounding neighbourhoods.

Benchmarks

There are no universally adopted benchmarks or guidelines for the provision of community facilities at a local government level. In the absence of specific benchmarks, the following best practice principles should be used to inform the location and design of future community facilities within the precinct. There requirements have been derived from similar studies in other LGAs⁹ and should be utilised as guide for all new and upgraded facilities.

Issue	Principle
Visually prominent	Locate in a highly visible location, such as a main street, that is central to the population catchment
Well integrated	Co-locate near/in retail centres and/or with other community facilities such as schools and other community services
High accessibility	Locate within walking distance of public transport and be well connected to the pedestrian/bicycle network to ensure highest levels of accessibility
Place making	Locate facilities adjacent to open space areas, town squares or plazas to enhance the civic presence of the facility and place making opportunities
Multipurpose design	Design to accommodate a range of different activities at the same time and allow for future expansion
High public safety	Location, facility and management meet best practice requirements for public safety as per Crime Prevention Through Environmental Design (CPTED)
Sustainable design	Design for high levels of sustainability to assist with long term operational efficiency

⁹ Community Facility Needs Assessment and Development Study Final Report (2007), Heather Nesbitt Planning for Auburn Council and Wentworth Point Urban Activation Precinct Community Facilities Study (2013), Elton Consulting for Department of Planning and Infrastructure

7.2 Multi-purpose community centres

There are no existing multi-purpose community centres located within either of the precincts. Existing local community centres nearby include:

- Wrights Road Community Centre;
- Beaumont Hills Community Centre;
- Village Green Community Centre; and
- Stanhope Gardens Leisure Centre.

The Hills Shire Council is currently planning a new local community centre to be located at Kellyville Park Community Centre.

For community and social outcomes it is best practice to provide a multi-purpose community centre as part of large scale renewal projects. On this basis, factoring in proposed additional population and considering benchmark standards, one neighbourhood scale community facility having a minimum area of around 400 – 500m² should be provided to service both the Bella Vista and Kellyville precincts.

Due to its role as a larger centre having a greater amount of employment and residential development than either Kellyville or Showground precincts, it is recommended that the Bella Vista precinct is the most appropriate location for the community facility. The centre should centrally located, ideally adjoining or near the civic plaza, and incorporate flexible, multi-purpose space/s that can be configured to suit a broad range of indoor recreation activities. An emerging and appropriate trend is to co-locate such space as part of a larger multi-functional centre, possibly including a new generation business hub or library. This should be considered to maximise community and social benefit. Most existing community facilities are located outside of centres and all are removed from high quality public transport facilities. The proposed new facility will provide an alternative offering by being highly accessible to not just the immediate business and residential catchment but also to a larger area.

The proposed scale of population increase resulting from the precinct is not considered sufficient to warrant the establishment of a new multi-purpose community centre within the Blacktown LGA. Development in the Blacktown LGA will generate contributions towards the upgrade of facilities in the LGA.

7.3 Libraries

Existing provision

The Hills Shire Council currently operates two primary libraries at Castle Hill and Rouse Hill with branch libraries at Carlingford, Dural and Baulkham Hills. Blacktown Council operates five libraries, with the Denis Johnson Branch Library and the Lalor Park Branch Library within the vicinity of the Kellyville precinct. The existing library facilities are presented in **Table 10**.

Table 10 - Existing library facilities

Name	Location	
The Hills Shire		
Vinegar Hill Memorial Library	29 Main Street, Rouse Hill Town Centre, Rouse Hill	
Baulkham Hills Branch Library	Railway Street, Baulkham Hills	
Castle Hill Library	Cnr Castle & Pennant Sts, Castle Hill	
Carlingford Branch Library	Lloyds Avenue, Carlingford	

Name	Location
Dural Branch Library	Pellitt Lane, Dural
Blacktown City	
Lalor Park Branch Library	Cnr Freeman Street and Northcott Road, Lalor Park
Dennis Johnson Branch Library	Cnr Stanhope Parkway & Sentry Drive, Stanhope Gardens
Riverstone Library & Digital Hub	1st Floor, Marketown, cnr Market Street & Riverstone Parade, Riverstone
Our Library @ The Mount Druitt Hub	Ayres Grove, Mt Druitt
Max Webber Library	Cnr Flushcombe Road & Alpha Street, Blacktown

Planning for Libraries

Neither The Hills Shire Council nor Blacktown City Council have strategies in place to inform the need or location of future library facilities. The *Growth Centres Development Code 2006* provides a benchmark for the provision of libraries being:

- Branch Library: 1:33,000 with 2,400sqm area; and
- District Library: 1:40,000 with 2,400sqm area.

People Places, published by the State Library of NSW, provides the following rates for the delivery of library services. The floor space areas, shown in **Table 11** below, relate to the level of participants rather than the expected population. Projected participants of fewer than 2,750 persons will generate the minimum gross floor area of 190 square metres. This demonstrates the out-of-date type of facility prescribed by the *Growth Centres Development Code 2006*.

Table 11 – Floor area requirements for new library facilities

Projected population served	Floor area (sqm per 1,000)
fewer than 20,000	57.5
20,001 to 35,000	39
35,001 to 65,000	35
65,001 to 100,000	31
more than 100,000	28

Expected demand

The Kellyville precinct is projected to result in an increase of approximately 9,000 nett additional people within the precinct over the next 20 years. The combined population increase between the Bella Vista and Kellyville precincts are expected to be 17,000 people. The raw population increase is not large enough to justify a new branch library between the precincts but in order to mitigate the increase in demand on existing services, it is recommended that a smaller community centre, including limited Council library services, be provided within the Bella Vista precinct. Potent facilities may include:

- Library collection service;
- Internet and computer services;
- Reading spaces; and
- Activity rooms.

A facility to cater for the incoming population, based on the formula prescribed above, would require a floor area of approximately 200-300 square metres.

To maximise accessibility and patronage and to promote synergies, it is recommended that this facility be co-located, or integrated with the recommended new community facility in a central location such as the civic plaza.

8.0 Educational facilities

The Department has undertaken discussions with the Department of Education and Communities with regards to the likely provision of primary and secondary schools within the Precinct and more broadly within the NWRL corridor. The additional school students likely to be generated by the infill development in the Precinct and its surrounds are identified in the Department's report.

9.0 References

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