

PREPARED FOR



TYRRELLSTUDIO

## INTRODUCTION

THE BELMORE FINE GRAIN AND OPEN SPACE STUDY REPORT IS STRUCTURED IN FIVE PARTS.

#### 1.0 INTRODUCTION

- 1.1 BUILT FORM TYPOLOGIES
- 1.2 SUBDIVISION PATTERNS

#### 2.0 KEY ELEMENTS OF FINE GRAIN CHARACTER

- 2.1 FINE GRAIN RETAIL STRUCTURE
- 2.2 OPEN SPACE PROVISION
- 2.3 DEVELOPMENT TYPOLOGIES

#### 3.0 KEY OPPORTUNITY SITES

- 3.1 BELMORE SPORTSGROUND
- 3.2 RAILWAY PARADE & REDMAN PARADE

## TYRRELLSTUDIO

## INTRODUCTION: THE THREE KEY ELEMENTS OF FINE GRAIN CHARACTER

THIS REPORT IS FOCUSED ON THE EXISTING AND PROPOSED URBAN SYSTEMS OF BELMORE. IT SEEKS TO IDENTIFY POTENTIAL TO TRANSITION EXISTING FINE GRAIN URBAN VIBRANCY INTO THE NEW GRAIN OF THE URBAN SETTING.

The morphogenesis of the urban fabric of the Sydenham to Bankstown activity is that it is an outcome of an corridor is reflected in fairly distinct urban system that has developed phases and typologies.

These phases follow initial land release and subdivision, 60's population growth and the current phase of urban infill. The growth of the corridor is also related to the history of the rail line which over several transformations has allowed greater population growth.

This latest transformation from heavy rail to metro will facilitate the greatest spike in the areas growth since initial subdivision . The latest morphogenesis will be from infill to agglomeration and development of original lots once zoning has been finalised.

This study is primarily focused on the potential transitioning of the existing fine grain main street retail system into future town centre layouts and also the potential relationship between existing open space provision and future position of increased density.

The attitude taken to fine grain organically over time. Whilst this 'street life' is at risk through rapid development it may be possible to transition the life into the new urban structure with careful planning.

The report covers three key elements of the fine grain in the station precincts;

1. Fine grain retail structure.

2. Open space provision,

3. Development typologies and their morphogenesis.

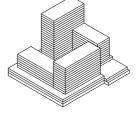
Each of these element will be analysed and strategies proposed to adapt and build upon the existing structure. The report will then provide proposed strategies for key opportunity sites that have been identified.

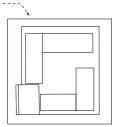
**1. FINE GRAIN RETAIL STRUCTURE**  2. OPEN SPACE **PROVISION** 

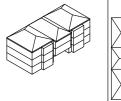
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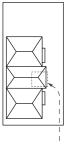


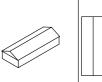
## **3. DEVELOPMENT TYPOLOGIES AND MORPHOGENESIS**













## INTRODUCTION: BUILT FORM TYPOLOGIES

Over time the development typologies have evolved to suit the growth in population and the changing methods of construction.

Apartment developments are more likely to have strata ownership and therefore less likely to be immediate targets for redevelopment.

BUILDING TYPOLOGIES OVER TIME		
Building Type	es l	Development 1880s + Development 1960s + Current development
1		DETACHED DWELLING WITH SIDE DRIVE
2		DETACHED DWELLING WITH REAR LANE
3		DETACHED DWELLING WITH FRONT GARAGE
7		2 STOREY SHOP TOP WITH REAR LANE
4		WALK-UP APARTMENT WITH SIDE DRIVE
5		WALK-UP APARTMENT WITH FRONT GARAGE
6		WALK-UP APARTMENT WITH REAR LANE
8		SHOP TOP WITH MULTI STOREY
9		PERIMETER BLOCK WITH MULTIPLE ENTRIES ONE MAJOR VEHICLE ENTRY
10		LARGE COMMERCIAL BLOCK ANCHORS

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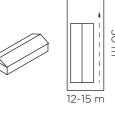
## **INTRODUCTION: BUILT FORM TYPOLOGIES**

#### SUB-DIVISION DEVELOPMENT 1880S +

Detached dwelling density: 12-15 / Ha Terraced dwelling density: 20-40 / Ha

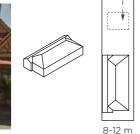
1 DETACHED DWELLING WITH SIDE DRIVE

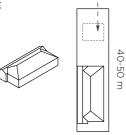


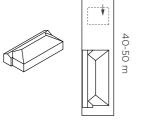


2 DETACHED DWELLING WITH REAR LANE









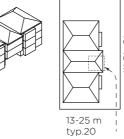
4 WALKUP APARTMENTS WITH SIDE DRIVE

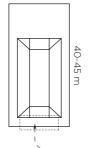
STRATA DEVELOPMENT 1960S +

Low-rise walk-up dwelling density: 60-80 / Ha



5 WALKUP APARTMENTS WITH FRONT GARAGE







10 LARGE COMMERCIAL BLOCKS ANCHORS



#### PROPOSED DEVELOPMENT

High-rise (8+ storeys) dwelling density: 300+ / Ha

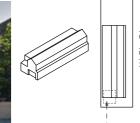
11 PODIUM AND TOWERS



7 2 STOREY SHOP TOP WITH REAR LANE

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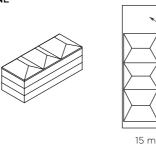
3 DETACHED DWELLING WITH FRONT GARAGE

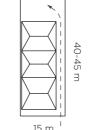








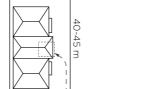




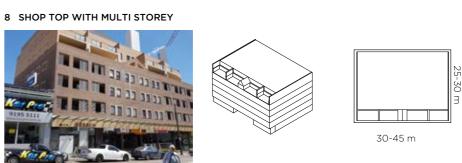




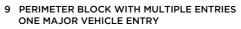












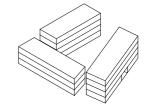


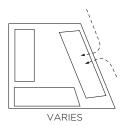


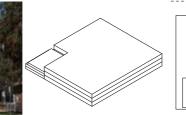
## CURRENT DEVELOPMENT

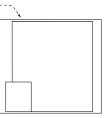
Mid-rise (5-8 storey) dwelling density: 100-160 / Ha



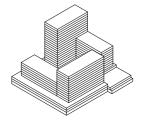


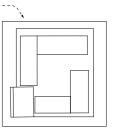






VARIES

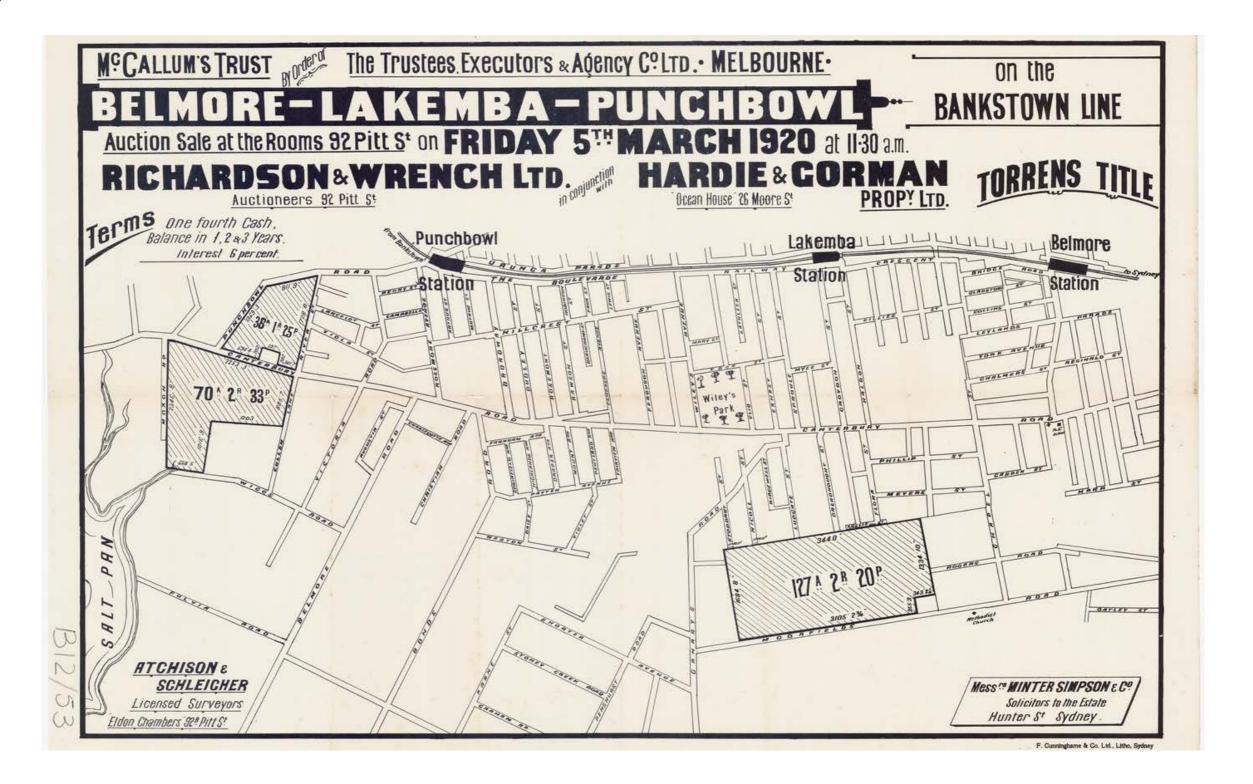




## 1.2

## SUBDIVISION PATTERNS

Early subdivision patterns are still intact in much of Belmore.



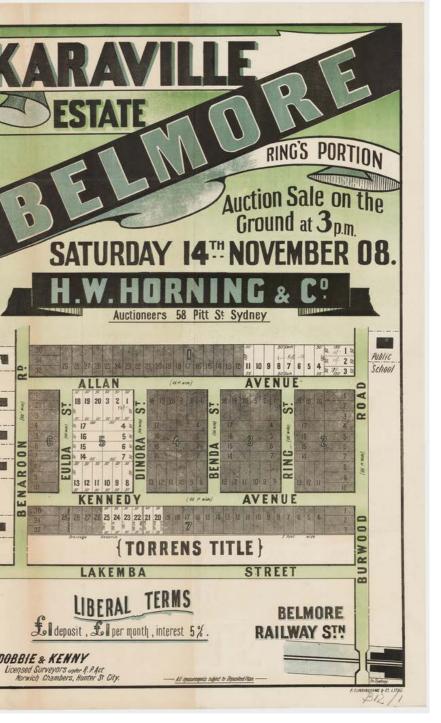
#### SUBDIVISION PATTERNS





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#### **BELMORE STATION** BANKSTOWN TO SYDENHAM: FINE GRAIN STUDY

BELMORE 1943

BELMORE STATION BANKSTOWN TO SYDENHAM: FINE GRAIN STUI

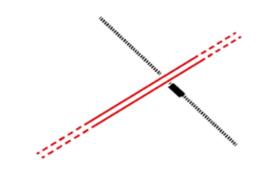


# BELMORE 2016

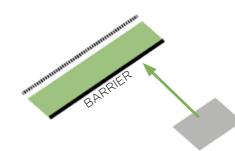


2.0

#### PRINCIPLES OF THE THREE KEY ELEMENTS **OF FINE GRAIN CHARACTER**

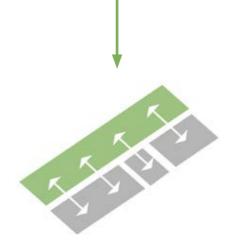


There is a vibrant fine grain retail strip along Burwood Road. The activity is supported by foot traffic and as expected diminishes with distance from station.



Some existing open space of Belmore is underperforming and underutilised. The access and built form relationships to open space are often poor and open space is not located near areas of density. located close to open space.

It is often difficult to provide an adequate provision or transit oriented development is not always



Density can be distributed along under performing open space. This will support open space upgrading neighbourhoods could be encouraged to develop and prompt the creation of a high performance connected network of open space throughout the neighbourhood.

As well as station centers, high quality around open space and provide improved links and inter-modal connections directly to stations and retail centres.

#### **RETAIL STRUCTURE**

The existing retail could transition from being a

strip supported by the station and fading with

distance, to being a network connecting to new

densities of people and reinvented public open

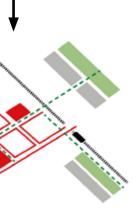
spaces.

**OPEN SPACE PROVISION** 



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## **DEVELOPMENT TYPOLOGIES**



of open space close to the station. Station-centric





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BELMORE STATION BANKSTOWN TO SYDENHAM: FINE GRAIN STUDY

#### **RETAIL STRUCTURE**

EXISTING RETAIL STRIPS ARE KEY TO FINE GRAIN VIBRANCY OF THESE SUBURBS. NEW FINE GRAIN RETAIL SYSTEMS SHOULD BE ENCOURAGED BY NEW CITY FORM SO THAT VIBRANCY REMAINS.

There is an existing pattern of successful fine grain retail along the main streets. This will either fail as development intensifies, or must be encouraged to transition to a new system, with a short window to rehouse the fine grain.

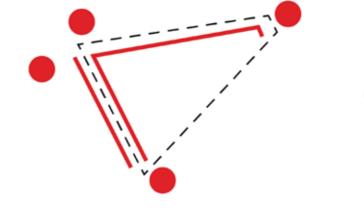
The following retail patterns or systems integrate the main strip into a cluster of anchors around the station, rather than allowing activity to dissipate further away.

To propose a new system:

- establish a conservative quantum of street retail and potential retail anchors based on projected population growth.

- suggest new arrangement of retail such that the energy and street life can transition to new, more sustainable forms; from main street structure to a cluster of offerings.





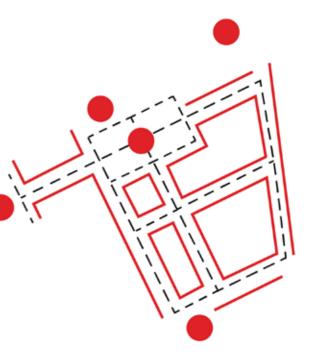
## **RETAIL DUMBBELL**

**RETAIL LOOP** 



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## **RETAIL GRID**



### **FUTURE RETAIL** REQUIREMENTS

## **BELMORE PROJECTIONS FOR 2036**

## **4000** ADDITIONAL DWELLINGS

conservatively at 2 residents per dwelling will provide housing for approximately 8,000 additional residents.

## 8,000 ADDITIONAL RESIDENTS

Supporting 0.5sqm / person is approx. 4,000sqm additional local strip retail, which equates to approximately 400m additional retail frontage.

**400M** ADDITIONAL LOCAL STRIP RETAIL FRONTAGE

## **1** NEW SMALL SUPERMARKET



## **EXISTING RETAIL STRUCTURE**

Possible location for new small supermarket to form a retail anchor on the corner of Burwood Avenue and Leylands Parade.

A new vehicular street from station to park (Myall Avenue), and a new pedestrian through site link could generate a loop of pedestrian activity between the major anchors of the park, station, supermarket and main street.

There may be potential for a new school in the existing location of the former bowls club.

## **PROPOSED FINE GRAIN RETAIL**

Fine grain retail tenancies (5-8m wide frontages) focused along new street along railway, with further tenancies along through site link, opposite park and on Leylands Parade.

Create new linear park link to station in place of existing surface car park and by realigning the easement fence.

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**BELMORE STATION** 

BANKSTOWN TO SYDENHAM: FINE GRAIN STUDY



### EXISTING RETAIL STRUCTURE

VIBRANT FINE GRAIN RETAIL ALONG MAIN ROAD, GENERALLY WITH ACTIVITY DIMINISHING WITH DISTANCE FROM STATION.







### PROPOSED **RETAIL STRUCTURE**

TRANSITION RETAIL STRIPS TO NEW RETAIL SYSTEMS BASED ON NEW ANCHORS AND FINE GRAIN RETAIL, SUPPORTED BY HEIGHTENED DENSITIES



BELMORE STATION 15 BANKSTOWN TO SYDENHAM: FINE GRAIN STUDY

2.2

## EXISTING OPEN SPACE STRUCTURE

FRAGMENTED AND UNDER-PERFORMING OPEN SPACE ON THE PERIPHERY OF PRECINCTS; GENERALLY SOME OPEN SPACE IN CENTRES AND A DEFICIENCY IN MID ZONES





#### PROPOSED **OPEN SPACE STRUCTURE**

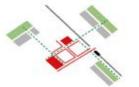
FRAMEWORK OF DENSITY DISTRIBUTED BETWEEN STATION SURROUNDS AND OPEN SPACE OPPORTUNITIES, USING DEVELOPER CONTRIBUTIONS TO REINVENT UNDER UTILISED OPEN SPACE. ALTHOUGH JUST OUTSIDE TYPICAL WALKING RADIUS, DEVELOPMENT BESIDE UNDER UTILISED GREEN SPACE PROVIDES BETTER LIVING CONDITIONS FOR FUTURE POPULATIONS.



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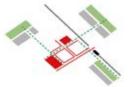
BELMORE STATION 17 BANKSTOWN TO SYDENHAM: FINE GRAIN STUDY

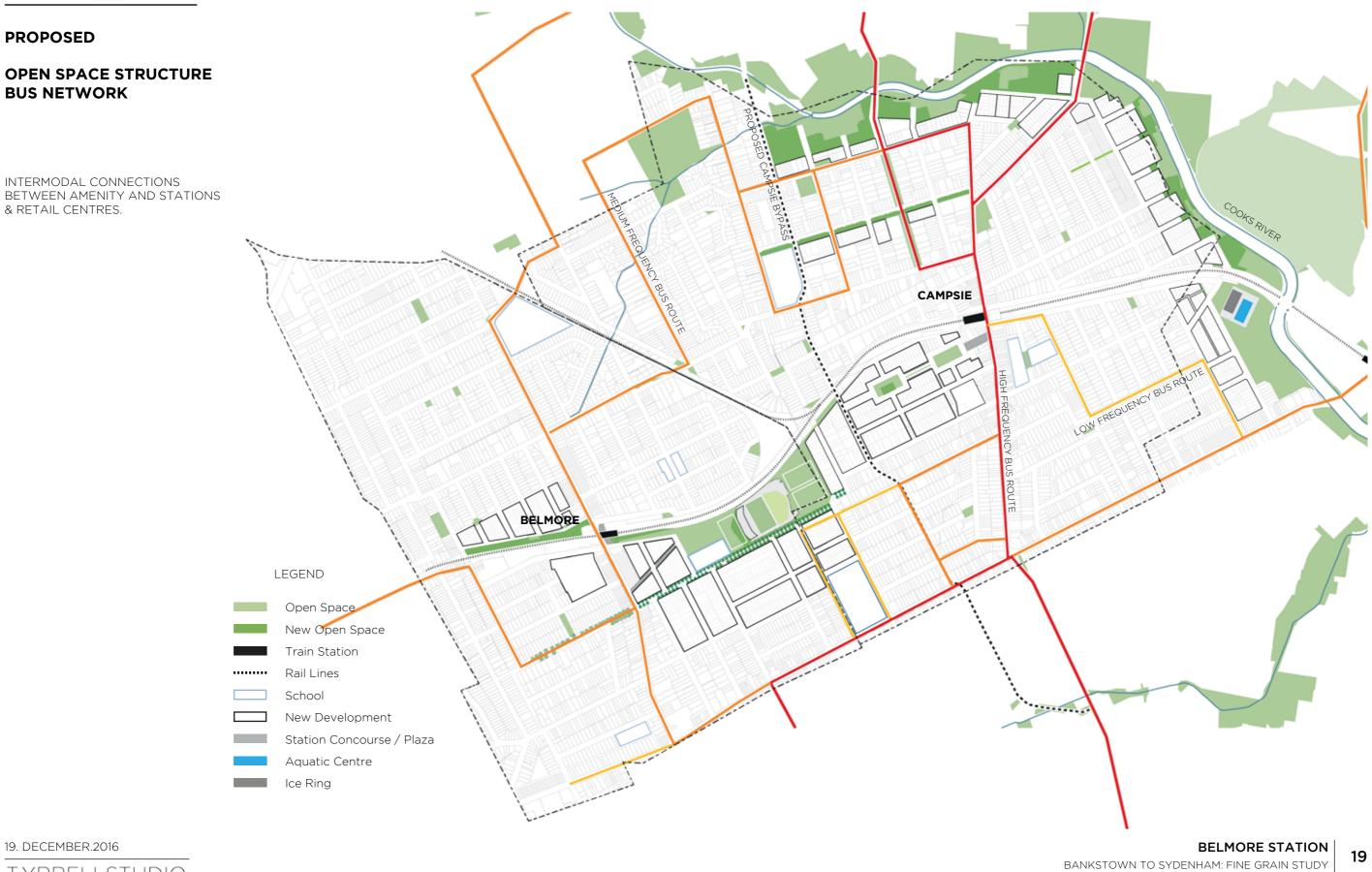




#### 18 BELMORE STATION BANKSTOWN TO SYDENHAM: FINE GRAIN STUDY









2.3

### EXISTING **DEVELOPMENT STRUCTURE**

DEVELOPMENT CURRENTLY OCCURS ON SITES WHERE RETAIL ACTIVITY PETERS OUT AT THE ENDS OF MAIN STREETS



**BELMORE STATION** 20 BANKSTOWN TO SYDENHAM: FINE GRAIN STUDY

Community Facilities

Aquatic Centre

Existing Trees

LEGEND

Open Space

Retail Rail Lines

School

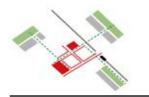
Ice Ring

Plaza

•

Train Station



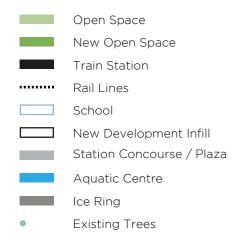


#### PROPOSED **DEVELOPMENT STRUCTURE**

INFILL DEVELOPMENT WILL BE MOST LIKELY TO FIRST OCCUR IN THE LESS CONSTRAINED SITES WHICH CONTAIN GROUPS OF LARGER SINGLE DWELLING BLOCKS RATHER THAN STRATA DEVELOPMENTS.



LEGEND



New Trees 

Pedestrian and Cycle Connection

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THREE PUBLIC DOMAIN OPPORTUNITY SITES

## 3.1 BELMORE SPORTSGROUND

## 3.2 RAILWAY PARADE & REDMAN PARADE

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## OPPORTUNITY SITE: BELMORE SPORTSGROUND



Currently, dead fenced edges surround the open space. The Peter Moore playing fields are isolated behind the Sportsground and side fences creating an unsafe condition lacking wider connectivity. The Terry Lamb Reserve is bordered by rear fences to Belmore Bowling Club and the private car park of the Belmore Sportsground. Existing surface car parks take up a lot of area in the open space. Parking could potentially be consolidated into new developments to regain open space.

The Bowling Club could potentially become additional open space, or a new community facility such as a school. There may be potential for a new street to activate and connect the southern edge of the open space, By relocating existing streets as development occurs and orienting new buildings to the park.

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West of Burwood road, Leylands Parade has high quality street trees creating a fig lined avenue. There is great potential to draw this character east to create a tree lined boulevard along the park edge.

There is potential to activate a linear park along the railway by creating a new street and retail strip connecting to the station and the existing retail on Burwood St.



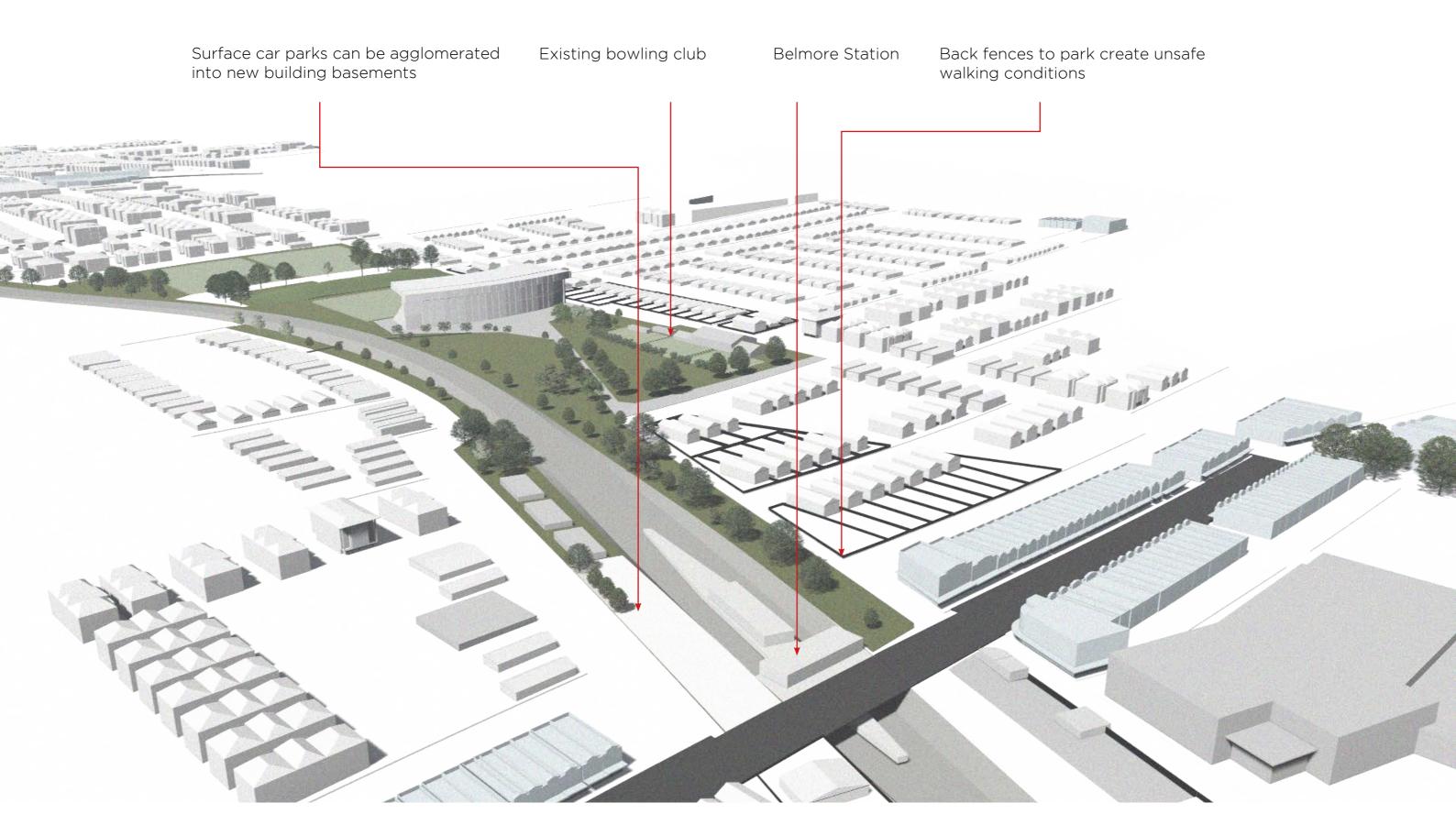
Existing fig plantings on Leylands Parade should continue along the edge of Belmore Sportsground as a new street edge between the new development and the park.



BELMORE STATION

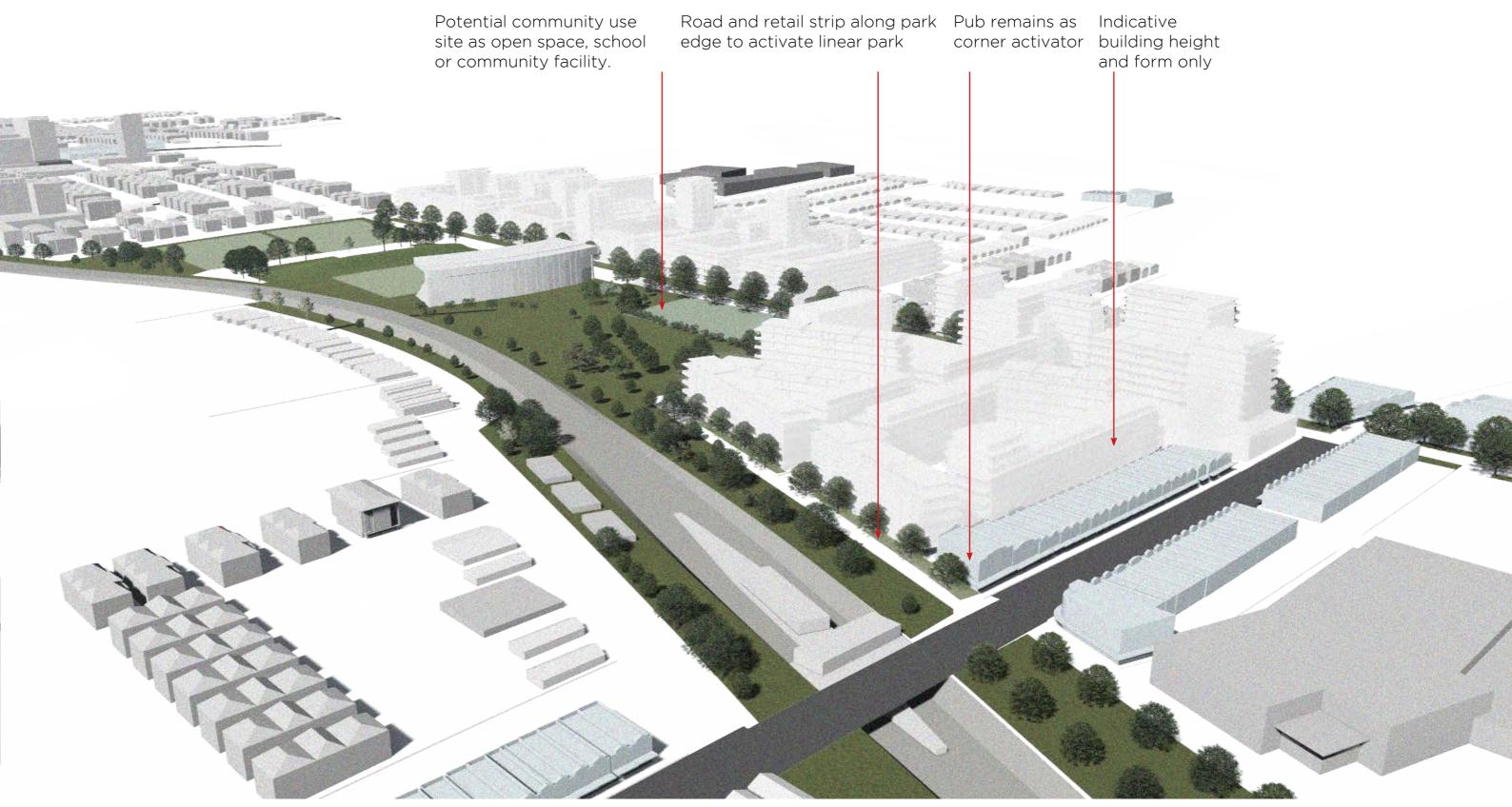
BANKSTOWN TO SYDENHAM: FINE GRAIN STUDY

## BELMORE SPORTSGROUND: EXISTING CONDITION





## **BELMORE SPORTSGROUND: PROPOSED CONDITION**

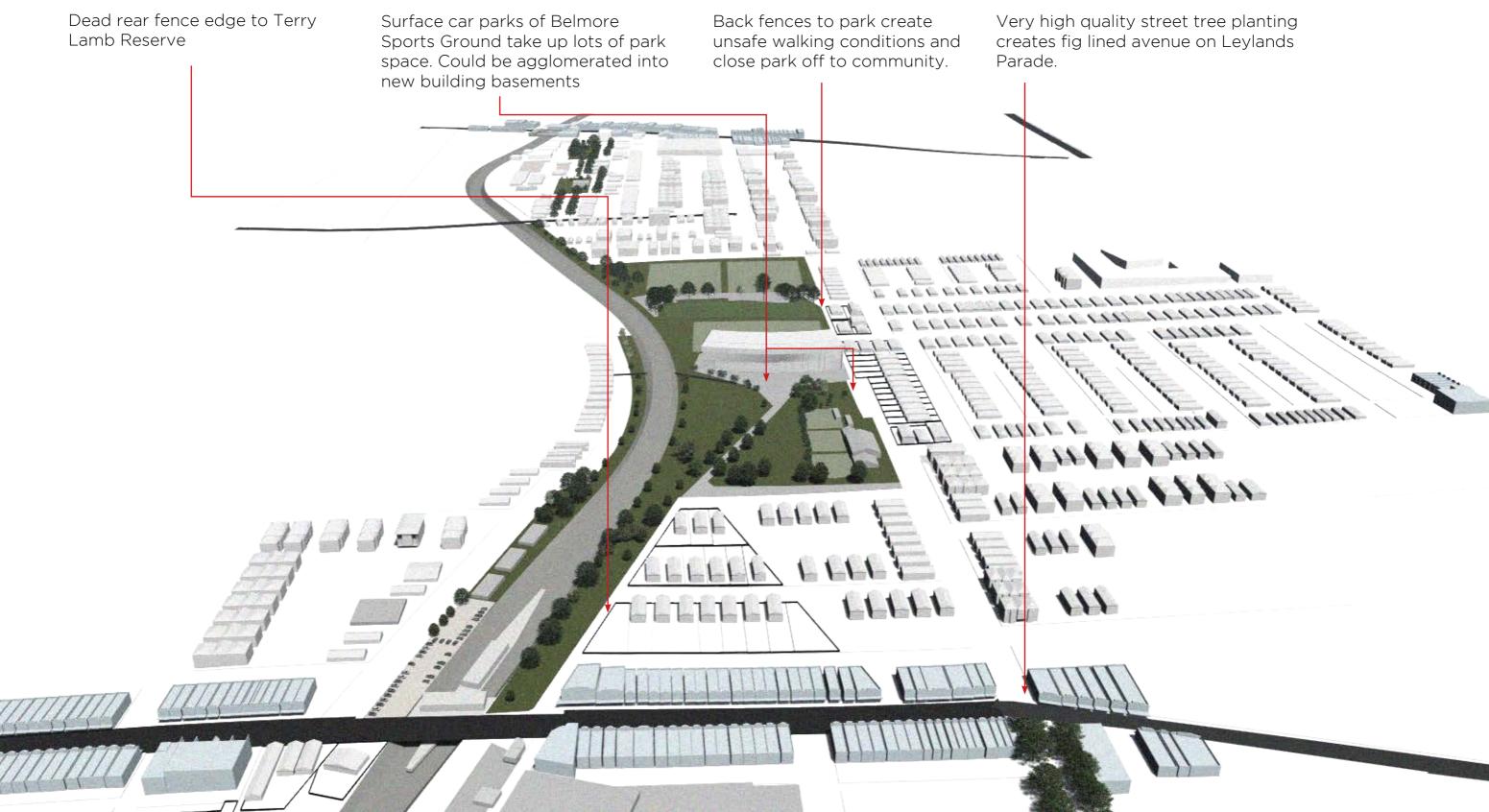


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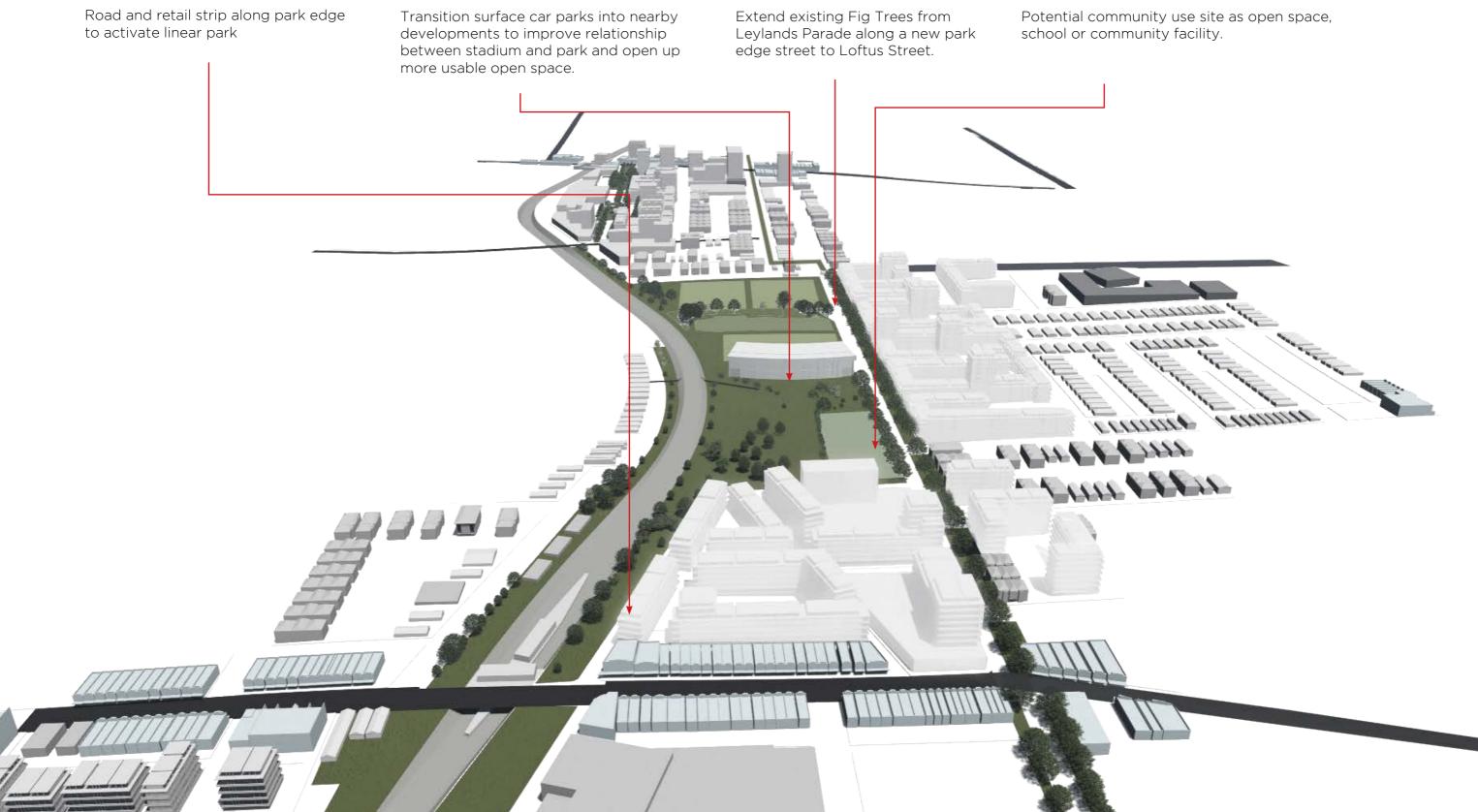
BELMORE STATION 27 BANKSTOWN TO SYDENHAM: FINE GRAIN STUDY

## **BELMORE SPORTSGROUND: EXISTING CONDITION**





## **BELMORE SPORTSGROUND: PROPOSED CONDITION**



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## **BELMORE SPORTSGROUND: EXISTING CONDITION**



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## **BELMORE SPORTSGROUND: PROPOSED CONDITION**

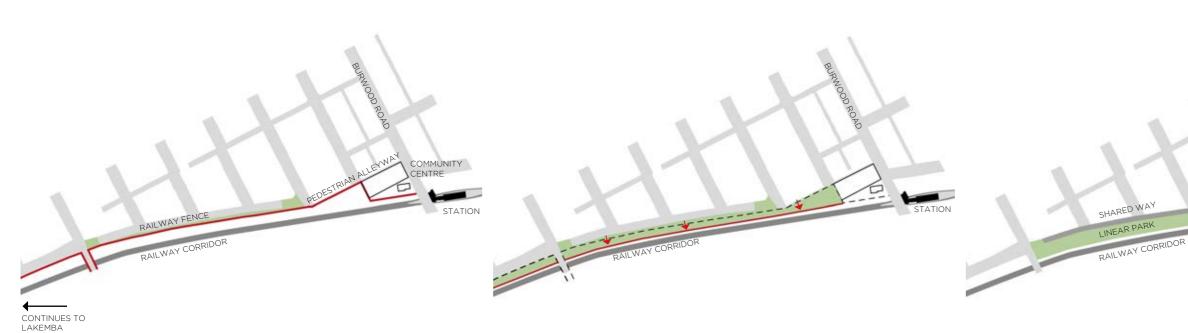




BELMORE STATION BANKSTOWN TO SYDENHAM: FINE GRAIN STUDY

## 3.2

OPPORTUNITY SITE: RAILWAY PARADE & REDMAN PARADE



The fence between the railway easement and Railway Parade isolates a wide area of under utilised open space. There is a poor connection from Railway Parade to the station, with an narrow pedestrian alleyway beside the railway fence and community centre.

There is potential to relocate the railway fence south, to the top of the embankment to create a linear park.

Potential to narrow the street to a one lane shared way and redevelop the community centre to enable an activated connection through to Burwood Road and the station.

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WAY DARK





COMMUNITY CENTRE MAXIMUM FOUR STOREY HEIGHT RAILWAY CORF

The linear park capitalises on existing mature trees along the easement, and celebrates the embankment. New development to the north is to actively address the park and to be a maximum of 4 storeys to ensure solar access.

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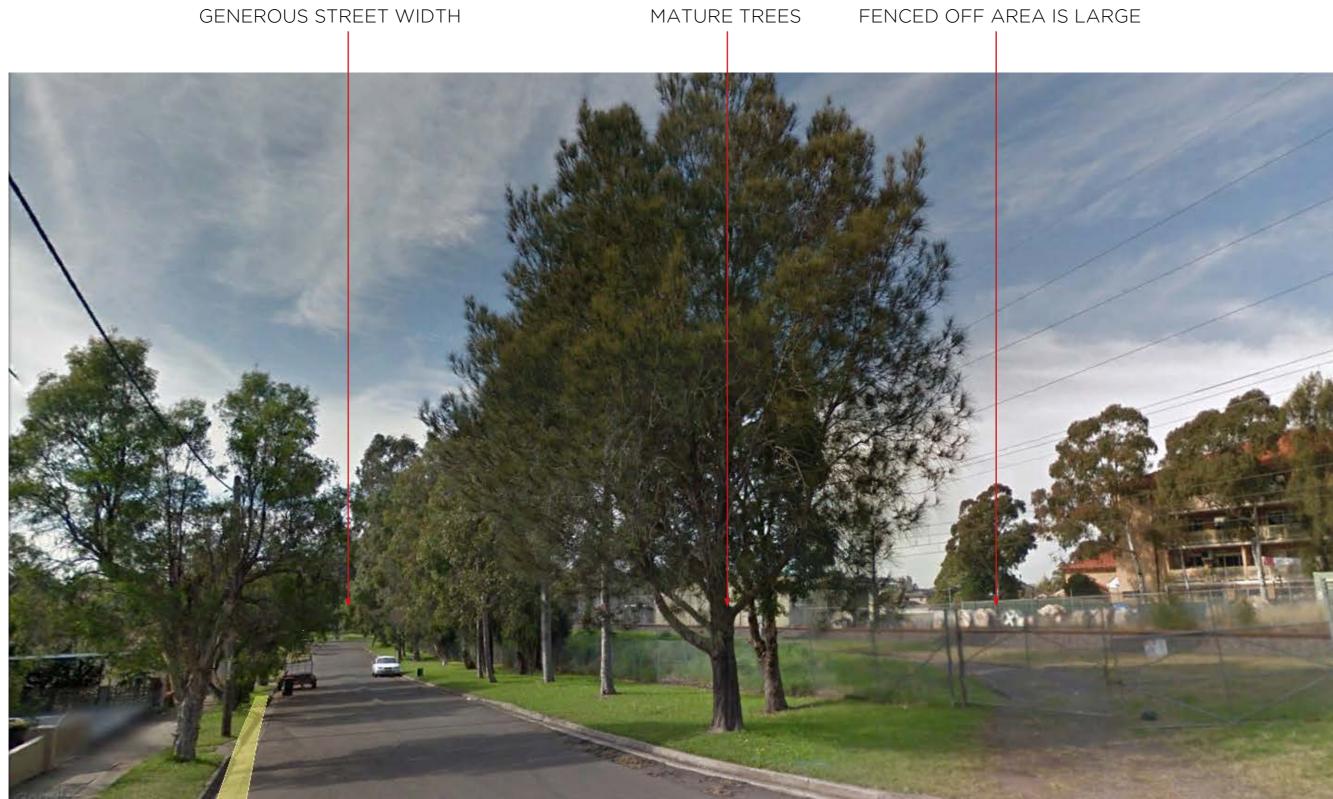
Landform based play can make use of embankments along the along the linear park and the rail corridor.



Transform industrial landforms into usable and interesting landscape spaces along the linear park.

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## **RAILWAY PARADE & REDMAN PARADE: EXISTING CONDITION**





## **RAILWAY PARADE & REDMAN PARADE: PROPOSED CONDITION**





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