ROSANNA VILLAGE
(INCLUDING LEVEL CROSSING REMOVAL) URBAN DESIGN AND LANDSCAPE GUIDELINES

Banyule City Council

December 2016

Date	Version	Issue	For
12.09.2016	P1	Council review	VicRoads/Client Review
20.10.2016	-	Council Approval	Client Issue
27.10.2016	A	Council Approval	Client Issue
14.11.2016	B	Council Approval	Client Issue
08.12.2016	C	Final	Council Adoption
21.12.2016	D	Final	Council Adoption

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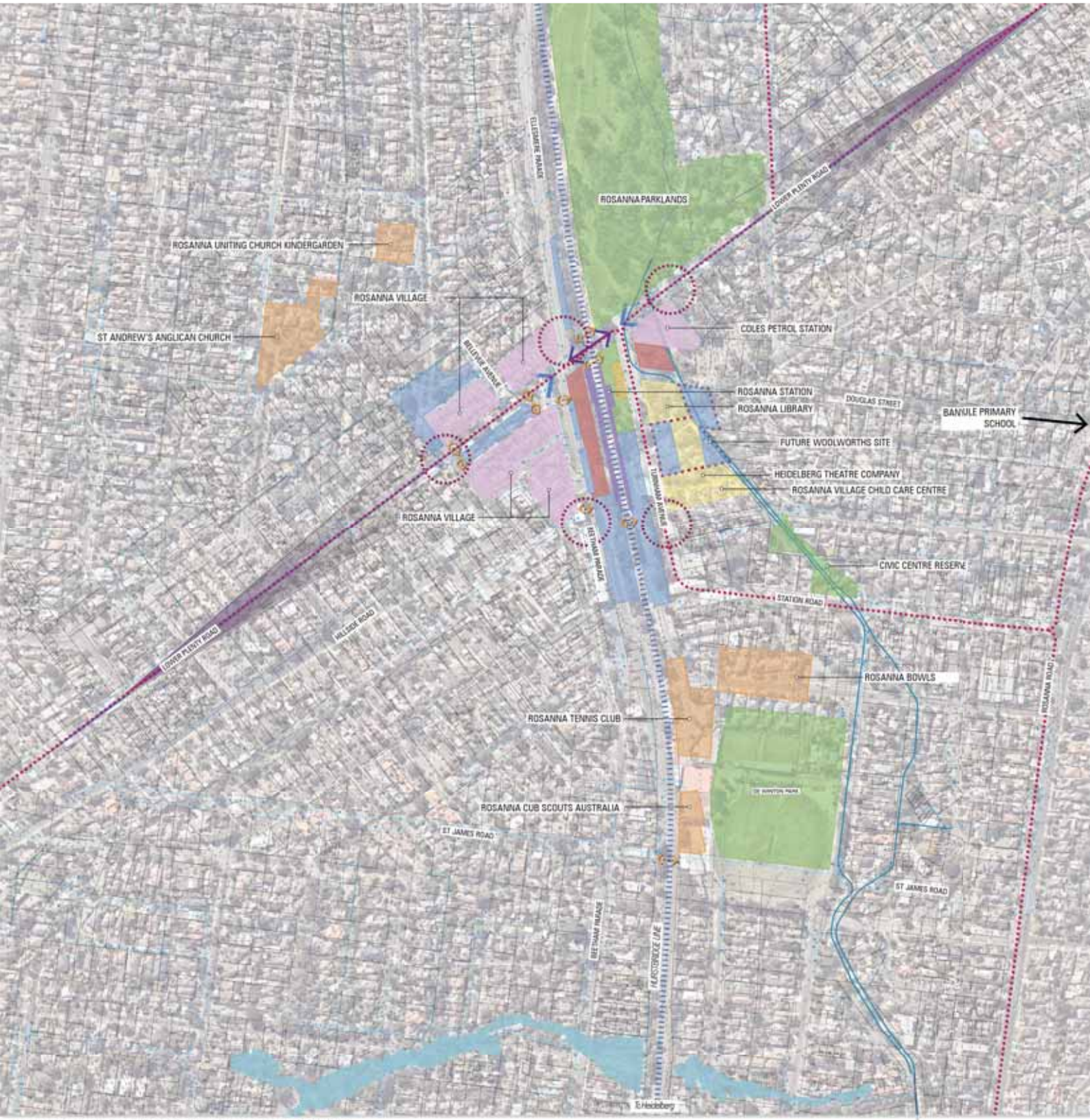


ROSANNA LEVEL CROSSING & STREETSCAPES EXISTING CONDITIONS

legend

access / connectivity
- rosanna station and platform
- pedestrian crossing
- level crossing
- entry threshold
- hill slope
- key view point
- train line

landuse / built form
- car park
- public use building
- commercial building
- public use
- mixed use building
- proposed building

landscape / environment
- green space
- public open space
- special building overlay

Project Ref:	2016.417
Dwg No.:	UDD-001
Scale:	1:1500@ A3 1:750 @ A1
Date:	10.08.2016
Revision:	P2

THE VISION

The vision for Rosanna Village is:

Place:

- *To maintain its role as one of Banyule's Neighbourhood Activity Centres, centered upon its identity as the 'cultural heart' of Rosanna.*

Planet

- *To maintain the treed village character with an emphasis on its environmental sustainability and vegetation utilising native species of various proportions and scales.*

People:

- *To enhance the community spirit of the village, providing a range of civic, specialty retail and small commercial uses connected to diverse and functional public open spaces.*

Participation:

- *To create a vibrant public realm through public art, events and programs.*

Performance:

- *To implement a well-designed, sustainable and resilient transport hub which incorporates safe and convenient pedestrian, cycle connectivity.*

KEY CHARACTER ELEMENTS OF ROSANNA VILLAGE

The key neighborhood characteristics most significant to Rosanna Village and which should be contemplated as part of any new rail infrastructure upgrades include:

- Long range views along Lower Plenty Road due to significant fall in topography at village approach.
- Substantial tree lined streets, particularly along Lower Plenty Road.
- Vegetation predominately of native varieties including canopy vegetation and under-storey planting.
- Predominant built form height of retail form of 1 to 2 storeys with a mix of building eras from fine grain Victorian and post war with a mixture of contemporary forms scattered along infill sites.
- Preferred contemporary built form height of 3 to 4 storeys.
- The highly vegetated Rosanna Parklands forming a critical landscape gateway to the Village.
- Public art forms a strong feature of Rosanna Village's identity.
- The service road to the south of Lower Plenty Road provides a semi-pedestrianised commercial core.

URBAN DESIGN FRAMEWORK DIRECTIONS

The overarching urban design directions to guide the design and development of the level crossing removal include:

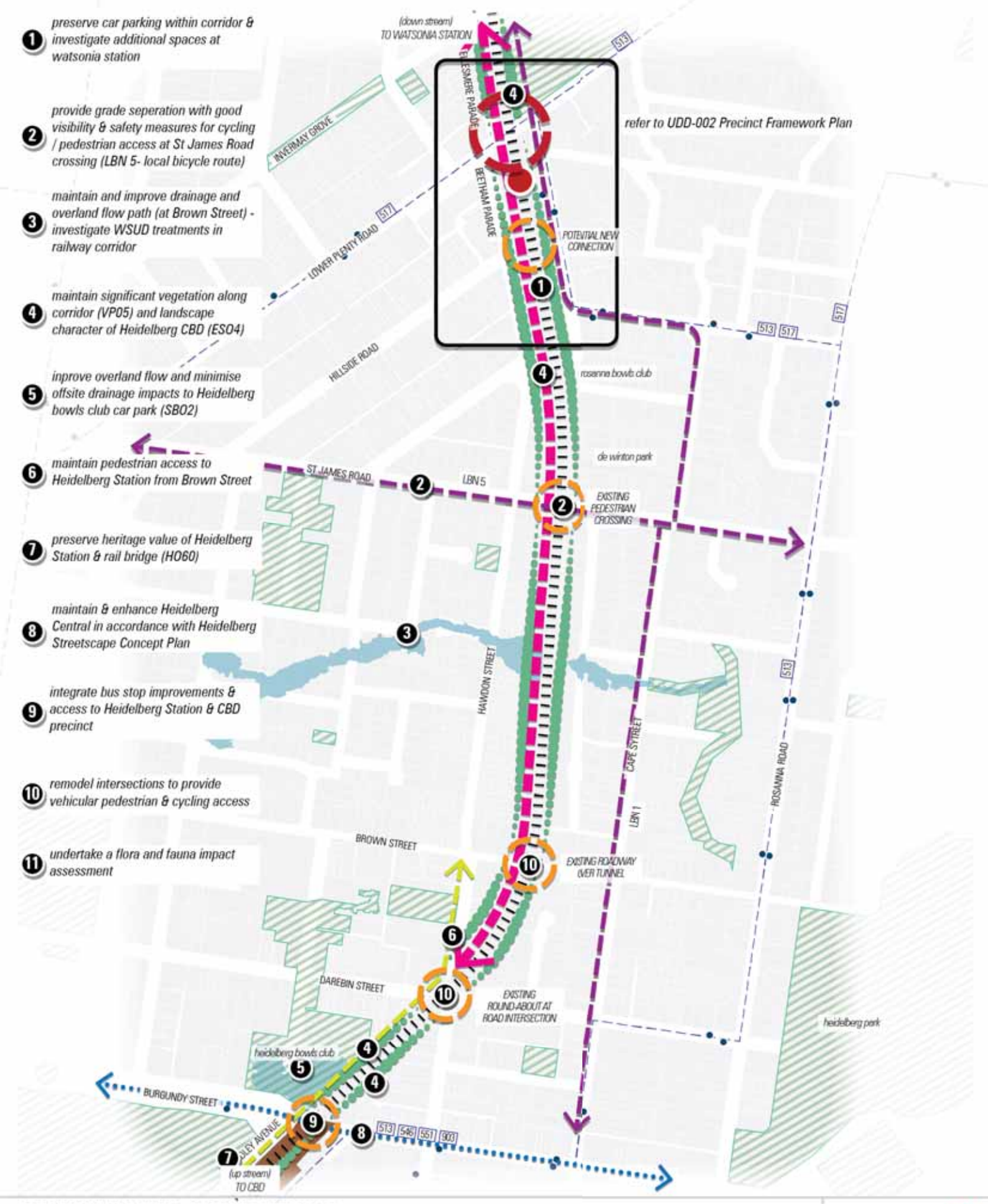
1. Preference for implementing a centralised island platform arrangement allowing pedestrian infrastructure (vertical and horizontal) to be incorporated sensitively into the overall station footprint.
2. Encourage a multi-nodal transport hub, including a bus interchange and commuter and taxi drop-off zone adjacent to the station entry to Turnham Avenue.
3. Ensure station location maintains clear connectivity with Rosanna Village and its associated retail and commercial offerings, while respecting the Village character regarding built form arrangement and design detail.
4. Implement a 40km/h shared zone to Turnham Avenue, Beetham Parade and the junction with Lower Plenty Road to manage permeable connections to and from the station.
5. Establish several new, well-connected public open spaces within Rosanna Village with incorporated public art nodes and visual links. Ensure new open spaces provide connections with Rosanna Parklands.
6. Maintain and frame long-range views to existing native canopy vegetation along the Lower Plenty Road approach, particularly to Rosanna Parklands, through a cohesively designed level crossing removal and associated station building.

Rail above road directions

- Ensure any rail bridge, over Lower Plenty Road is sensitively designed to maintain views along this road towards native canopy vegetation, particularly within Rosanna Parklands and utilises materials complementary to the character of the village.
- Ensure new rail infrastructure (including overpasses, viaducts and buildings) are designed as one cohesive architectural element.
- Manage the interface of apartments to the west through the implementation of a generous vegetation buffer and a sensitively designed sound wall.
- Avoid dark and uninviting under-croft areas.
- Seek to minimise the removal of native vegetation along the rail corridor.

Rail under road directions

- Ensure station entrances are designed to be highly legible from the public realm.
- Seek to implement a public plaza at street level which provides connections from the Village to the station on both sides of the railway corridor.
- Ensure ramps and vertical infrastructure are integrated into the overall design of the station.
- Ensure retaining walls are incorporated as part of the overall station design and avoid the presentation of blank concrete.
- Seek to minimise the removal of native vegetation along the rail corridor.

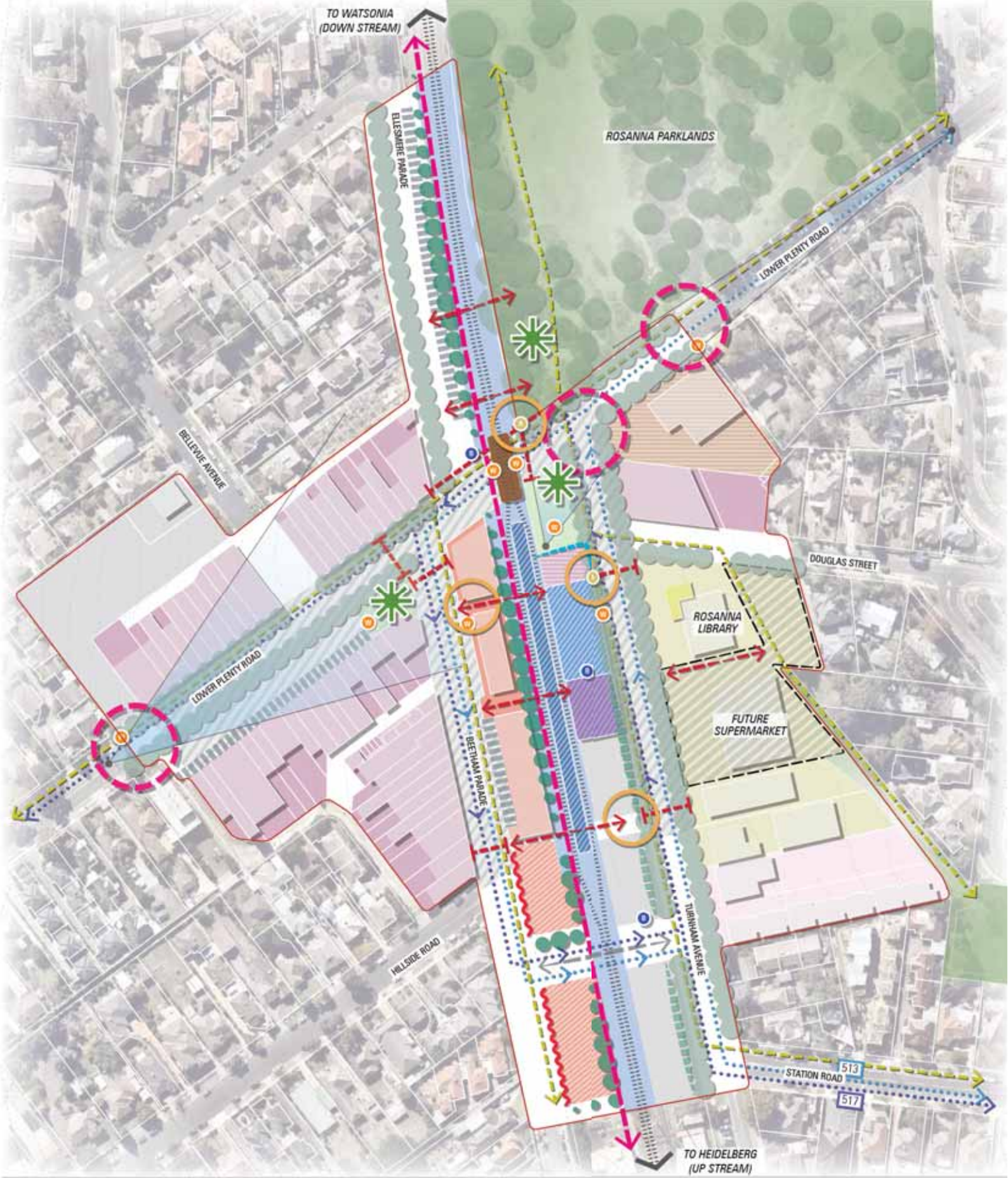


ROSANNA VILLAGE LEVEL CROSSING REMOVAL & STREETSCAPE IMPROVEMENTS

CORRIDOR FRAMEWORK PLAN

- refer to framework plan
- train station
- rail corridor
- proposed bus route improvements
- existing bus route
- proposed shared path (strategic cycle corridor)
- potential level crossing removal
- improved cycling and pedestrian network
- improved pedestrian access
- vegetation along corridor
- upgrade intersection
- special building overlay (SBO02)
- heritage overlay (HO60)
- environmental sensitivity overlay (ESO4)
- public open space
- bus stop

Project Ref:	2016.417
Dwg No.:	UDD-002
Scale:	1:5000@ A3 1:2500 @ A1
Date:	24.08.2016
Revision:	P



ROSANNA LEVEL CROSSING & STREETSCAPES DESIGN FRAMEWORK

legend

general
- study area
- existing tracks
- contours

access and connectivity
- potential pedestrian/ bicycle / bus access(one way)
- retain short-term parking
- proposed pedestrian crossing
- proposed circulation link
- potential station building
- potential platform zone
- potential bus interchange
- retain commuter car parking
- reinforce bike route
- potential bus stop locations
- prioritise bus lane

landscape and environment
- potential public open space
- upgrade public open space (plaza)
- proposed shared zone
- proposed landscape buffer
- protect and enhance existing street tree
- building setback for tree retention
- existing public open space
- potential strategic cycle corridor
- station access

landuse and builtform
- existing buildings
- active interface to public open space
- interface to respond to street condition
- proposed woolworths development
- potential development site - mixed use
- potential retail
- potential future redevelopment site
- potential community kiosk
- retail and commercial
- community & civic
- mixed use
- residential

character and identity
- gateway to Rosanna Village
- improved legibility to station entry
- proposed public art node and wayfinding
- potential bridge design to complement character
- key views to be maintained

Project Ref:	2016.417
Dwg No.:	UDD-003
Scale:	1:1500@ A3
	1:750 @ A1
Date:	14.11.2016
Revision:	-

URBAN DESIGN GUIDELINES

a well defined identity and sense of place are key to creating strong and vibrant communities

1 IDENTITY

EXISTING CONDITIONS

view of station entry and signage

existing mural on commercial form in Rosanna Village

permeable pathway conditions through parklands

OBJECTIVES

- *To develop a public realm character that supports Rosanna Village as a 'cultural heart' which is community focused and environmentally sustainable.*
- *To celebrate and enhance the 'green' character of the village and its surrounds.*
- *To preserve the cultural heritage and overall environmental value of Rosanna Parklands.*
- *To integrate new infrastructure and built form with the topography of Banyule's ridges and valleys.*

PRIORITIES

Cultural Heart

- Employ the principles of the station as a 'Community Hub', reinforcing local ownership and pride in the station and surrounds.
- Ensure movement to and from the station is supported by a range of commercial and community activities complementary to Rosanna Village.
- Enhance the identity of Rosanna Village as a 'local neighbourhood' through the design of new public spaces which respond to the character of significant built form and landscape features.
- Integrate local artwork and sculpture at key access locations along key movement corridors to enhance the gateway presence of Rosanna Village and the transport hub.

Green Village Character

- Ensure any new built form adjacent to and connecting to the station is of high quality and responds to the prevailing typology and architectural character of Rosanna Village.
- New built form is to respond to the prevailing material palette comprising recessive finishes, muted tones, natural materials i.e. stone and timber. Seek to avoid heavy use of concrete and exposed steel beams.
- Strengthen the landscape character of the village by incorporating native species and character elements drawn from Ellis Stones's vision for the nearby Rosanna Parklands into potential public open space and pedestrian links.
- Consider the implications of works within any relevant Vegetation Protection Overlay (Schedule 4 & 5) and its influence on the 'green' character of Rosanna, in particular along Turnham Avenue.
- Seek to implement new canopy vegetation within potential public open space which is complementary to the existing vegetation palette seen within Rosanna Village and surrounding public open space.
- Seek to locate new canopy vegetation in areas where screening or softening of rail infrastructure can be achieved.

Heritage

- Identify the heritage values associated with Heidelberg Station and Rosanna Woodlands and preserve heritage elements, particularly when incorporating as part of any new station building upgrade.
- Seek to incorporate indigenous heritage elements into the design of public open space, built form or artwork.
- Undertake a Cultural Heritage Management Plan and integrate recommendations, prior to the design process.
- Enhance the character of the Rosanna Parkland's through strengthening the Ellis Stones bushland theme within the park.
- Enhance the character of Rosanna Village through reference to prominent local architecture styles, such as the works by Ellis Stones and Robin Boyd.

Topography & views

- Maintain and manage key views throughout Rosanna Village to public open space including Rosanna Parklands, in particular from Lower Plenty Road to the east looking across the rail reserve to the west.
- Ensure the design of new infrastructure utilises permeable materials and effects where appropriate, to frame and/or enhance views to canopy vegetation and public open space.

PRECEDENTS

Train station

poor example of a train station interface to the public realm

good example of a train station complementing public realm

Public open space

poor example of a public open space

good example of a public open space

animation of key civic spaces, and diversity in the experience of urban places support prosperous and healthy communities

2 VIBRANCY

EXISTING CONDITIONS

existing public art within village

hospitality uses along commercial street

existing visual connection from bus shelter to station

OBJECTIVES

- *To enhance the Village area as a 'cultural' destination.*
- *To establish spaces which can support social and cultural aspects of Rosanna Village and the local community.*
- *To create diverse spaces which are memorable, functional and engaging and can be used throughout different times of the day.*
- *To enhance the cultural centre vision through engaging and integrated public art.*

PRIORITIES

Street activity

- Encourage active and diverse uses along footpaths within Rosanna Village including outdoor dining and retail and permeable pedestrian interfaces.
- Provide pause points near the Rosanna Library and Heidelberg theatre comprising seating, landscape and shade/ shelter.
- Provide pause points between mixed use form adjacent to the rail corridor comprising seating, landscape and shade/ shelter.
- Encourage new buildings adjacent to station provide active uses and passive surveillance toward pedestrian links and associated pause points.
- Ensure new open spaces implement community activity program advocating for public events and markets.

Public Art

- Establish a public art node within potential public open space to Lower Plenty Road and Turnham Avenue.
- Provide site specific artwork integrated within the whole station site plan.
- Artwork to consider having a vertical emphasis in public spaces, with 'Earthy' recessive tones.
- Establish a public art selection criteria which ensures works are of high quality and responsive to the character of Rosanna.
- Implement a signage and/ or flag strategy to enhance the vibrancy and character of Rosanna Village.
- Consider the implementation of a mural to the rear of Beetham Parade properties.
- Engage the local community during the design process of public art and signage works.
- Artwork to consider it's kinetic relationship to the functioning of the railway.

Design detail

- Provide low-level accent lighting for night-time activities and to guide pedestrian movement to and from the station.
- Coordinate accent lighting with other design elements to create a cohesive identity for Rosanna station.
- Implement modular or temporary landscape opportunities (i.e. planter boxes) to allow local businesses to interact with the public realm.

PRECEDENTS

Artwork

good examples of integrated public artwork

Village Activity

poor activation of station forecourt

good example of public plazas integrated with retail buildings and escalator

Station Activity

poor example of activation and surveillance at station frontage

good example of active uses and transparency through to station platform

Design Detail

poor example of platform design with no connection to surrounding character

good example of public sculpture integrated into platform

well connected and legible places contribute significantly to strong economies and healthy, inclusive communities

3 CONNECTIVITY & WAYFINDING

EXISTING CONDITIONS

existing commuter car parking at station

existing level crossing conditions north of station

traffic conditions at Ellesmere Parade intersection

OBJECTIVES

- *To improve pedestrian, cycling and vehicular connectivity to Rosanna Village and Rosanna Station.*
- *To promote inter-modal connections and alternate sustainable transport options.*
- *To achieve maximum legibility within Rosanna Village through a hierarchy of pathways.*
- *To enhance the physical and visual permeability of built form between Turnham Avenue and Beetham Parade.*

PRIORITIES

Connections to station

- Ensure new vehicle and car parking movement is subordinate to the movement of public transport commuters, pedestrians and cyclists.
- Ensure commuter car parking has clear pedestrian links and wayfinding to the station and Rosanna Village.
- Implement a new shared zone along Turnham Avenue to connect with Station Road and De Winton Park.
- Implement an accessible shared zone through to Beetham Parade providing safe pedestrian access from the station to Rosanna Village.
- Implement a continuous cycling and pedestrian link to Watsonia Station to the north.
- Provide physical, visual and pedestrian connections to community assets such as the Rosanna Shopping Village, Rosanna Library, Heidelberg Theatre, Rosanna Village Child-care Centre, Rosanna Parklands and De Winton Park.
- Provide a primary pedestrian/ cycle connection from the station to strategic cycling networks.
- Ensure all pedestrian routes connecting the station to key destinations within Rosanna Village are as short, direct and visually and physically unobstructed as possible.
- Enhance existing key pedestrian routes and formalise informal paths, subject to safety, pedestrian flows and rail operation requirements.

Intermodal connections

- Seek to implement a cohesive multi-modal transport hub into the overall design of the level crossing removal and subsequent station building (bus, train, taxi, private vehicle, bike etc.).
- Integrate a drop off zone / Kiss and ride facility with clear visual access in proximity to the Station entry.
- Entrances to and signage within car parks should clearly communicate and define its use as either a commuter car park or other.

Legibility and signage

- Activities surrounding the station and Rosanna Village should be easily found upon arrival at the centre by train or bus.
- New pedestrian routes are to be developed as part of an integrated public realm network and achieve connections with surrounding civic, commercial and retail uses.
- Ensure separate pedestrian and cycle routes from vehicle movement and car parking within Rosanna Village.
- Provide clear wayfinding signage to community assets, heritage elements and bicycle networks.
- Ensure wayfinding, ticket information, route maps and timetable information are prominently located and easily accessible to all users.
- Seek to reduce the need for visual clutter of signage through a highly considered movement network for all modes of transport to and from the station.

Permeability

- Ensure station entrance is easily identifiable from Lower Plenty Road, Turnham Avenue and Beetham Parade within Rosanna Village by pedestrians and cyclists.
- Ensure the design and location of station forecourts maximises outlook to surrounding land uses and pedestrian links.
- Minimise the rail corridor's divide by integrating efficient shared paths along the corridor connecting to Rosanna Village.

PRECEDENTS

Connectivity

poor example of visual connectivity

good example of a well-designed pedestrian tunnel under a viaduct

Wayfinding

poor example of wayfinding signage at station entry

good examples of way-finding signage at an entry

well integrated environments provide a sound framework for the successful development of great places

4 URBAN INTEGRATION

EXISTING CONDITIONS

existing mixed use form to rail corridor

existing car parking conditions within village

existing pedestrian path from station

OBJECTIVES

- *To ensure new rail infrastructure makes a positive contribution to Rosanna Village*
- *To ensure new built form addresses the public realm and offers positive street and rail interfaces.*
- *To integrate well-designed and functional public open spaces within Rosanna Village.*
- *To enhance connections between commercial uses, public open space as well as the wider street network to transport nodes.*

PRIORITIES

Station and associated infrastructure

- The form, scale and materiality of the new station building should respond Rosanna's preferred neighbourhood character.
- The design of the station building should be site responsive and incorporate distinguishing architectural features and treatments.
- The design should be highly adaptable and flexible to accommodate potential future technologies and programs.
- The design of the station is to address Turnham Avenue and/or Beetham Parade and should achieve active uses and passive surveillance.
- The building should incorporate clearly identifiable entry points which can be viewed from long-range distances.
- Pedestrian access is to be carefully integrated into the overall design of the station and their impact to the public realm is minimised.
- Vertical and horizontal connections are to be integrated into the overall design of the station building;
- Ensure services are integrated into the design of built form including waste, substations etc should not be freestanding or without appropriate landscape screening.
- Encourage the integration of retail and commercial uses to Beetham Parade; and
- The boundary or edges between the station and public realm should be designed to ensure a "seamless transition" between the two areas, with no obvious signs of delineation.

New built form

- The form, scale and materiality of the new buildings should respond to Rosanna's preferred neighbourhood character.
- Encourage active ground floor uses on main pedestrian paths.

Public realm

- Ensure potential public open space combines programs which connect with pedestrian movement patterns and formal pedestrian crossings.
- Ensure the design of public open space has regard to surrounding land uses associated with Rosanna Village
- Identify preferred open space types and functions within the overall design of the level crossing removal and associated station.
- Implement a public plaza or forecourt at the station entry integrating multiple activities and amenities which are coordinated with preferred pedestrian connections and vehicular drop-off zones.
- Integrate landscape buffers along sensitive interfaces including residential buildings and the Rosanna Parklands.
- Limit vertical retaining walls or embankments along sensitive interfaces such as residential buildings and Rosanna Parklands. Where they are provided ensure articulated surfaces (i.e. stone).
- Fencing should be recessive, aesthetically pleasing incorporating transparent elements and artistic treatments to minimise its visual impact and integrate with the preferred neighbourhood character.
- Underground the overhead power and communication lines to integrate the public domain and improve public amenity.

Street network

- Assess appropriate traffic connections and intersection treatments to and within Rosanna Village.
- Consider connecting the east and west of Rosanna Village by providing a secondary roadway for future bus and pedestrian networks.

PRECEDENTS

Station Building

poor example of station building entry to the public realm

good example of a station building entry when viewed from the public realm

Interface Management

poor example of apartment interface to elevated rail corridor

good example of apartment interface to elevated rail corridor

places must be sustainable, enduring and resilient in order to support and nurture current and future generations

5 RESILIENCE & SUSTAINABILITY

EXISTING CONDITIONS

existing conditions of pavement in Rosanna Village

view of station platforms from level crossing

view of bus shelters adjacent to station

OBJECTIVES

- *To cater for a diversity of uses and flexibility within Rosanna Village and the transport hub.*
- *To provide a station which integrates the built form and infrastructure with a level degree of landscape.*
- *To integrate sustainable design into the building and infrastructure works which seeks to minimise the use of energy and water resources.*
- *To ensure the design of infrastructure and new built form are easily maintainable and will age gracefully.*

PRIORITIES

Flexibility of uses

- Seek to implement a resilient, long-lasting station design through the use of a complementary material and colour palette, responding to the preferred character of Rosanna Village.
- Ensure the station building is designed to allow for the adaption of future technologies and infrastructure.
- Ensure public open spaces and plazas are designed to allow diverse and adaptable uses, to allow greater flexibility for the community.

Public Realm

- Ensure any proposed retaining walls are designed and constructed to complement the colour and material palette of Rosanna Village. This may include the use of dense vegetation buffers and materials of earthy-tones and natural finishes.
- Minimise the loss of existing canopy vegetation and seek to establish new canopy vegetation along rail corridor and within the village precinct to maintain the 'green' character of Rosanna and surrounding suburbs.

Sustainability

- Ensure materials and finishes are durable and low maintenance.
- Ensure building materials comprise low embodied energy or are carbon neutral.
- Ensure new built form seeks to minimise energy consumption and utilises renewable resources where appropriate.
- Seek to integrate WSUD principles into hard paved areas such as on-grade car parking and public plazas and limit off-site drainage impacts.
- Seek to implement permeable paving within public open space and plazas.
- Ensure drought tolerant, low maintenance or indigenous landscape species are used as part of any public open space design or landscape buffer.

- Undertake an arboricultural impact assessment along the length of the corridor and protect significant, mature vegetation.
- Ensure noise attenuation barriers are visually permeable.
- Ensure the design of the station and level crossing removal seeks to minimise noise pollution to surrounding residential land.
- Ensure lighting is baffled within and surrounding the station as to not cause light spill to surrounding residential land.
- Manage the stormwater drainage at the Darebin Road bridge and Brown Street bridge.
- Manage potential impacts of the LSIO within Rosanna Parklands.

PRECEDENTS

Retaining Walls

poor retaining wall response adjacent to residential land

good example of retaining wall design response in Rosanna Village context

Building Design

poor example of highly contemporary station design for Rosanna Village context

good example of a resilient station building allowing for future technology adaption

Landscape

poor example of landscape and public realm at station entry

good example of public realm landscape utilising drought-tolerant species

high quality urban amenity associated with access to services and the experience of great public places contributes successful, equitable and prosperous communities

6 AMENITY

EXISTING CONDITIONS

existing canopy along commercial strip

existing public infrastructure within village

existing conditions of pedestrian path to station

OBJECTIVES

- *To implement a level crossing removal and associated station building upgrade which improves the physical comfort and physiological wellbeing of public transport commuters.*
- *To improve the amenity and overall physical comfort of Rosanna Village through a highly considered site planning and design response.*
- *To ensure the level crossing removal and associated works has no adverse amenity impact on adjacent or nearby residential land.*

PRIORITIES

Station

- Implement shade and shelter solutions through transitional spaces within and surrounding the station building.
- New built form is encouraged to incorporate wide overhanging eaves pergolas or slatted sunshades, and full height windows facing north where possible.
- Provide shade and shelter solutions along the station platform.
- Lighting design of both the platforms, station buildings and commuter car parks should ensure transition lighting levels to adjoining interfaces and surrounds without causing glare or light pollution spill.
- Ensure bicycle parking is conveniently located near station platforms and is secure for daily commuters.
- Ensure station building incorporates open and accessible family friendly public toilet, end-of-ride and appropriate retail facilities.
- Provide public seating and rubbish bins in key commuter areas including along the station platform, station forecourt.

Village

- Consider the impacts of a 40km/h zone and traffic management along Lower Plenty Road to complement the existing speed restrictions in Turnham Avenue and Beetham Parade, which strengthens the pedestrian amenity of the streetscape.
- Ensure the design of new rail infrastructure does not unreasonably overshadow the public realm, in particular public open space and pedestrian connections.
- Seek to incorporate permeable effects into the design of buildings and rail infrastructure to achieve daylight to the public realm.
- Provide a publicly accessible and flexible open space which can be used by the community for differing day and night-time events.
- Provide shade elements and shelter structures within public open space.
- Activate the edge along the interface with Rosanna Parklands, with passive recreation opportunities.
- Install seating at regular intervals (100m to 200m) and at prominent public facilities, such as bus stops, public service areas and public toilets, to enable rest opportunities.

Residential development

- Ensure the design of new rail infrastructure does not unreasonably overshadow adjacent dwellings within apartment buildings.
- Ensure sound walls or barriers are implemented to minimise noise pollution. These barriers should be sensitively designed and incorporate materials and colours appropriate to the character of Rosanna Village.
- Ensure the design of new residential buildings seek (where possible) to minimise primary outlook to the rail corridor.

PRECEDENTS

Residential development

poor example of dwelling orientation to rail corridor

good example of dwelling orientation to rail corridor

Daylight & shelter

poor example of shelter and shade at station platform

good example of daylight access and shelter to station platform

Public infrastructure

poor example of bike storage at station

good example of bicycle storage unit within public realm

safe environments are essential for strong, connected and happy communities

7 SAFETY

EXISTING CONDITIONS

existing road conditions within village

existing marked pedestrian crossing within village

existing condition of level crossing at station

OBJECTIVES

- *To ensure new rail infrastructure works are designed to improve commuter safety within and around the station.*
- *To create a safe, community-oriented environment through considered design responses within Rosanna Village.*
- *To maximise visual connections and pedestrian movement within and surrounding the village and station.*

PRIORITIES

Station

- Ensure the station, interchange and its public realm linkages are supported by a range of activities and uses for various times of the day and/or night.
- Provide short and direct circulation spaces throughout the station precinct.
- Ensure the station and any associated public spaces are designed to optimise passive surveillance and include quality lighting.
- Maintain and upgrade the safety of the railway pedestrian crossings at David St and St James St, by incorporating appropriate control measures, lighting and signage.
- Employ Crime Prevention Through Environmental Design (CPTED) principles.
- Provide CCTV and adequate lighting to public undercroft areas.
- Provide durable surface materials with anti-graffiti coating.
- Enclose hidden spaces less than 1.5m in height to prevent access.
- Provide a Site Environmental / Construction Management Plan and Rail safety Management Plan for Council review and approval.
- Integrate end of ride and storage facilities for bicycle users.
- Integrate waiting areas with adequate shelter / shading and solar penetration.
- Integrate an inter-modal bus exchange within the station.

Village

- Improve and/or formalise pedestrian crossings within Rosanna Village including along Lower Plenty Road and Beetham Parade, to the station entry and community assets.
- Implement a pedestrian priority zone across the street network surrounding the station (including Lower Plenty Road, Beetham Parade and Turnham Avenue), incorporating a distinctive paved zone and other traffic calming measures to manage pedestrian safety.

Visual connectivity

- Site substations and other general rail infrastructure so they do not block or obscure visibility and are aligned to passive surveillance opportunities to reduce the risk of being vandalised (subject to safety and rail operation requirements).
- Improve safety and visibility along the western boundary Station interface with the adjoining residential developments.
- Maintain clear vehicular sightlines along Lower Plenty Road through to Rosanna Village and bisecting intersections.
- Maintain visual connections with wide pedestrian crossings or ramps or underpasses.
- Ensure safety fences are designed to be aesthetically pleasing and recessive. Ensure heights do not restrict views to and from the public realm.

PRECEDENTS

Pedestrian Crossing

poor example of pedestrian pathways to station entry

good example of pedestrian crossing to station

Visual Connectivity

poor example of visual connectivity throughout station

good example of lighting and seating design at station platform

Fencing

poor example of fencing to station platform

good example of recessive fencing to station

highly accessible and inclusive environments encourage positive activation and contribute to prosperity, well being and the perception of care within communities

8 ACCESSIBILITY

EXISTING CONDITIONS

existing conditions of footpath within village

existing conditions of pavement within village

existing public seating within village

OBJECTIVES

- *To ensure the level crossing removal is designed to encourage walking, cycling and public transport usage.*
- *To provide an accessible station that promotes independent travel.*
- *To provide functional pathways and usable public spaces designed to prioritise pedestrian movement across throughout Rosanna Village.*

PRIORITIES

Permeable access

- Ensure new pedestrian paths implement standard footpath widths to maximise accessibility to station.
- Ensure pedestrian connections (above or below) the rail corridor are designed in accordance with DDA requirements.

The Station

- Provide at least one accessible entrance to the station, preferably the principal entrance from primary public area and the community precinct.
- Consider secondary pedestrian and cycle access from Rosanna Parklands.
- Ensure DDA infrastructure is incorporated into the overall built form design of the level crossing removal and station building.
- Ensure DDA car parks are within convenient proximity to station entrances.
- Integrate elevator access in primary, open public locations (where applicable).
- Long pedestrian ramps are to be avoided. Any required ramps are to be integrated into the design of the station to achieve best functional outcome while not appearing as a dominant design feature.
- Minimise gaps between surfaces, such as at footpaths and transportation platforms.

Rosanna Village

- Provide footpaths and paving design, which is accessible for all users and considers topography.
- Rectify damage caused by construction works on the streetscape reserves.
- Ensure new public spaces and station building incorporates public seating with arm rests.
- Provide footpath surfaces within Rosanna Village to be safe and DDA compliant.
- Provide pedestrian crossings throughout Rosanna Village and community assets.

PRECEDENTS

Station entry

poor example of efficient station entry

good example of multiple access points to station entry

Cycle infrastructure

poor example of on-road cycle lane

good example of clearly demarcated cycle infrastructure

LANDSCAPE GUIDELINES

APPENDIX A

1 LANDSCAPE GUIDELINES

OBJECTIVES

RETAIN

- *To minimise the loss of existing tree canopy within the rail corridor.*
- *To preserve existing significant vegetation within the rail corridor.*

REGENERATE

- *To enhance the corridor as an environmental habitat and biodiversity corridor.*

REVEGETATE

- *To integrate the station, associated rail infrastructure public real works into the landscape character of Rosanna Woodlands.*
- *To provide a vegetated periphery to the new station precinct.*
- *Provide for appropriate vegetation replacement.*

PRIORITIES

- Protect existing significant trees within Rosanna Parklands and De Winton Park and as scheduled in the Rosanna Planning scheme.
- Undertake arborist impact assess and implement town planning recommendations.
- Provide continuous tree canopy links into established landscape areas to support biodiversity.
- Provide a landscape setting contiguous with the natural bushland vision of Ellis Stones' design within the Rosanna Parklands, using natural rockwork, indigenous planting and water.
- Allow for connections between public open space and the railway, in particular the interface with Rosanna Parklands.
- Ensure drought tolerant, low maintenance and native/indigenous species are used in the design of any public open space or landscape buffer.
- Integrate WSUD opportunities and raingardens into the design.
- Incorporate mid-storey species along the interface of Rosanna Parklands to preserve habitat, manage weed establishment and provide screening (where it doesn't limit visual access).
- Undertake an Ecological and Environmental Management Plan (including a weed management plan) that incorporates an appropriate establishment period for all planting.
- Irrigate planting within the station surrounds and consider using recycled/stored water.

BENCHMARKS

- Planting palettes to draw from indigenous vegetation communities, including: E.V.C 55, 68 and 175.
- Replacement of trees to be at a 1:5 ratio.
- Implement tree protection zones to the canopy dripline of the protected trees and mulch the surface below to 100mm depth.
- Deciduous species to only be incorporated within the immediate station precinct and assist with the creation of entries and shade opportunities.
- Planting design should generally be a 'mixed' species to reflect the 'bushland' setting, whilst employing contrasting forms and foliage.
    - To provide a full detailed planting plan and schedule for the Rosanna Parkland Interface, including Ellsemere Parade and Lower Plenty Road entrances.
- Install plantings and gardens using 'best practice' horticultural methods and care.

PLANTING PALETTES

PARKLAND AND OPEN SPACE TREES

st botanical name	common name	average height x width (m)
Acacia implexa	Lightwood	8 x 7
Acacia mearnsii	Black Wattle	10-20 x 6-10
Acacia melanoxylon	Blackwood	12-18 x 6-12
Allocasuarina verticillata	Drooping Sheoke	9 x 5
Corymbia ficifolia	Red Flowering Gum	10-15 x 5
Corymbia maculata	Spotted Gum	20-30 x 10
Eucalyptus camaldulensis var.camaldulensis	River Red Gum	20-25 x 15-20
Eucalyptus melliodora	Yellow Box	10-15 x 8-10
Eucalyptus ovata var. ovata	Swamp Gum	8-20 x 8-15
Eucalyptus rubida	Candlebark	10-30 x 10-15
Eucalyptus sideroxylon	Red Ironbark	20-15 x 5

CONSERVATION ZONES AND SCREENING AREAS

botanical name	common name	average height x width (m)
SHRUBS		
Acacia paradoxa	Hedge Wattle	2.0-3.0 x 3.0-4.0
Alyogyne huegelii	Native Hibiscus	2.0-4.0 x 2.0-4.0
Bursaria spinosa ssp. spinosa	Sweet Bursaria	3.0-4.0 x 2.0-3.0
Dodonaea viscosa subsp. cuneata	Wedge-leaf Hop-bush	3.0 x 2.0
Indigofera australis	Austral indigo	2.5 x 2.5
Melicytus dentatus	Tree Violet	2.0-4.0 x 1.0-2.0
GROUNDCOVERS, TUFTING AND GRASSES		
Acaena nova- zelandiae	Bidgee- widgee	0.3 x prostrate
Atriplex semibaccata	Creeping Saltbush	0.3 x 1.5
Bossiaea prostrata	Creeping Bossiaea	prostrate x 1.0
Chrysocephalum spp.	Chrysocephalum	
Dianella revoluta	Black-anther Flax-lily	0.6 x 0.6
Lomandra spp.	Wattle Mat-rush	0.5 x 0.5
Poa spp.	Poa	
Poa labillardieri	Common Tussock Grass	0.8 x 0.8
Poa sieberiana var. sieberiana	Grey Tussock Grass	0.4 x 0.4
Themeda triandra	Kangaroo Grass	0.5 x 0.5
Viola hederacea	Ivy-leaf Violet	0.2 x 1.0-2.0
CLIMBERS		
Clematis microphylla	Small-leaved Clematis	climber x 5.0
Hardenbergia violacea	Happy Wanderer	2.0-4.0 x 1.0-2.0

EMBANKMENTS AND SOIL BINDING PLANTS

botanical name	common name	average height x width (m)
SHRUBS		
Callistemon spp.	Callistemon	
Correa spp.	Correa	
Westringia spp.	Westringia	
GROUNDCOVERS, TUFTING AND GRASSES		
Acaena nova- zelandiae	Bidgee- widgee	0.3 x prostrate
Atriplex semibaccata	Creeping Saltbush	0.3 x 1.5
Bossiaea prostrata	Creeping Bossiaea	prostrate x 1.0
Chrysocephalum spp.	Chrysocephalum	
Dianella revoluta	Black-anther Flax-lily	0.6 x 0.6
Lomandra spp.	Wattle Mat-rush	0.5 x 0.5
Poa spp.	Poa	
Poa labillardieri	Common Tussock Grass	0.8 x 0.8
Poa sieberiana var. sieberiana	Grey Tussock Grass	0.4 x 0.4
Themeda triandra	Kangaroo Grass	0.5 x 0.5

WATER SENSITIVE URBAN DESIGN AREAS

botanical name	common name	average height x width (m)
SHRUBS		
Goodenia ovata	Hop Goodenia	1.5 x 1.5
GROUNDCOVERS, TUFTING AND GRASSES		
Acaena nova- zelandiae	Bidgee- widgee	0.3 x prostrate
Bolboschoenus medianus	Marsh Club-sedge	0.5 x 0.5
Eleocharis acuta	Common Spike-sedge	0.3-0.9
Isolepis cernua	Nodding Club-sedge	0.3 x 0.3
Juncus spp.	Juncus	
Poa labillardieri	Common Tussock Grass	0.8 x 0.8
Senecio minimus	Shrubby Fireweed	0.5 x 1.5

PUBLIC URBAN AREAS

botanical name	common name	average height x width (m)
TREES		
Acacia implexa	Lightwood	10.0 x 5.0
Allocasuarina verticillata	Drooping Sheoke	9.0 x 5.0
Corymbia citriodora 'Scentuous'	Dwarf Lemon Scented Gum	15.0 x 8.0
Eucalyptus mannifera	Brittle Gum	15.0 x 8.0-10.0
Eucalyptus sideroxylon 'Rosea'	Red Flowering Ironbark	15.0 x 6.0-10.0
Eucalyptus torquata	Coral Gum	6.0 X 3.0
Jacaranda mimosifolia	Jacaranda	10.0 x 8.0
Hymenosporum flavum	Native Frangipani	10.0 x 5.0-6.0
Melia azedarach 'Elite'	White Cedar	6.0-12.0 x 5.0-8.0
Pistacia chinensis	Chinese Pistache	8.0 x 6.0
Pyrus spp.	Pyrus	
Tristaniopsis laurina 'Luscious'	Water Gum	8.0 x 4.0
GROUNDCOVERS, TUFTING AND GRASSES		
Brachyscome multifida	Cut-Leafed Daisy	0.45 x 0.45
Correa spp.	Correa	
Dianella spp.	Dianella	
Dichondra repens	Kidney Weed	0.3 x 1.0
Lomandra spp.	Lomandra	
Viola hederacea	Native Violet	0.3 x 1.0-2.0

PLANTING PALETTES


Red Flowering Ironbark *(Eucalyptus sideroxylon 'Rosea')*


Lightwood *(Acacia implexa)*


Drooping Sheoke *(Allocasuarina verticillata)*


River Red Gum *(Eucalyptus camaldulensis)*


Jacaranda *(Jacaranda mimosifolia)*


Brittle Gum *(Eucalyptus mannifera)*


White Cedar *(Melia azedarach 'Elite')*


Chinese Pistachio (*Pistacia chinensis)*


Black-anther Flax-lily *(Dianella admixta)*


Common Tussock-grass *(Poa labillardieri)*


Common Correa *(Correa reflexa)*

PRECEDENTS

Happy Wanderer (*Hardenbergia violacea)*

Native Hibiscus *(Alyogyne huegelii)*

Chrysocephalum spp.

Kidney Weed *(Dichondra repens)*

Kangaroo Grass *(Themeda triandra)*

Cut-Leafed Daisy *(Brachyscome multifida)*

LANDSCAPE CHARACTER

REFERENCES

- Banyule City Council, 2016, *Vegetation Community Map*
- Banyule City Council, 'Weeds of Banyule'
- Banyule City Council, 2001, 'Indigenous plants for your garden'
- Banyule City Council, 2014, 'Your sustainable garden'
- Banyule City Council, 2011, 'Banyule's Tree Planting Zone Guidelines'
- Banyule City Council, 2012, 'Neighbourhood Chracter Strategy'
- Banyule City Council, 'Vegetation communities of Banyule'
- Banyule City Council City Plan, 2013, 'Protect and enhance our natural environment'
- Beardsell, C ,2000, Vegetation Communities of the City of Banyule

EVC 55: PLAINS AND GRASSY WOODLANDS

SUB-COMMUNITY: PGWOTV RIVER RED GUM)TERRACE / VALLEY)

Vegetation Communities of Banyule, Based on Cam Beardsell, 201*1*

Species	Common name	Species Notes (inc. Australian/Victorian threatened status)	Banyule Status
Trees			
Eucalyptus blakelyi	Blakely's Red Gum		1m
Eucalyptus camaldulensis var. camaldulensis	River Red Gum		1
Eucalyptus goniocalyx	Long-leaf Box		1
Eucalyptus melliodora	Yellow Box		1
Eucalyptus ovata var. ovata	Swamp Gum		1
Eucalyptus rubida	Candlebark		1m
Eucalyptus X studleyensis	Studley Park Gum	Endangered in Victoria (DEPI)	1m
Mistletoes			
Amyema miquelii	Box Mistletoe		1
Amyema pendula ssp. pendula	Drooping Mistletoe		1
Muellerina eucalyptoides	Creeping Mistletoe		1
Tall Shrubs			
Acacia implexa	Lightwood		1
Acacia mearnsii	Black Wattle		1
Acacia melanoxylon	Blackwood		1
Acacia paradoxa	Hedge Wattle		1
Acacia pycnantha	Golden Wattle		1
Allocasuarina littoralis	Black Sheoke		2 (3 4)
Allocasuarina verticillata	Drooping Sheoke		1m
Bursaria spinosa ssp. spinosa	Sweet Bursaria		1
Cassinia longifolia	Dogwood		1
Exocarpos cupressiformis	Cherry Ballart		1
Kunzea leptospermoides	Yarra Burgan	Formerly *K. ericoides*; Poorly Known in Victoria (DEPI)	1
Melicytus dentatus	Tree Violet		1
Low Shrubs			
Acacia acinacea	Gold-dust Wattle		1
Cassinia aculeata	Common Cassinia		1
Cassinia arcuata	Drooping Cassinia		1
Chrysocephalum apiculatum	Common Everlasting		1m
Chrysocephalum semipapposum (Plains form)	Clustered Everlasting (Plains form)		1m
Daviesia leptophylla	Narrow-leaf Bitter-pea		1
Dillwynia cinerascens	Grey Parrot-pea		1

Species	Common name	Species Notes (inc. Australian/Victorian threatened status)	Banyule Status
Climbers			
Cassytha glabella forma dispar	Slender Dodder-laurel		1
Cassytha pubescens	Downy Dodder-laurel		4
Clematis microphylla / C. decipiens	Slender Clematis	Formerly C. microphylla, recently split	1
Convolvulus angustissimus ssp. angustissimus	Pink Bindweed		1
Glycine clandestina	Twining Glycine		1
Hardenbergia violacea	Purple Coral-pea		1
Herbs & Groundcovers			
Acaena echinata	Sheep's Burr		1
Acaena novae-zelandiae	Bidgee-widgee		1
Acaena ovina	Australian Sheep's Burr	Formerly recorded as *A. agnipila*, but this species has been recombined into *A. ovina*	1
Acaena ovina	Hairy Sheep's Burr		1
Acrotriche serrulata	Honey-pots		1
Ajuga australis	Austral Bugle		4
Asperula conferta	Common Woodruff		1
Astroloma humifusum	Cranberry Heath		1
Bossiaea prostrata	Creeping Bossiaea		1
Brunonia australis	Blue Pincushion		1
Centrolepis strigosa ssp. strigosa	Hairy Centrolepis		1
Cotula australis	Common Cotula		1
Crassula sieberiana	Austral Stonecrop		1
Cynoglossum suaveolens	Sweet Hound's-tongue		1m
Desmodium varians	Slender Tick-trefoil	Poorly Known in Victoria (DEPI)	2 (4)
Dichondra repens	Kidney-weed		1
Drosera aberrans	Scented Sundew	Formerly *Drosera whittakeri*	1
Drosera auriculata	Tall Sundew	Formerly *Drosera peltata ssp. auriculata*	1
Drosera peltata	Pale Sundew		1
Einadia nutans ssp. Nutans	Nodding Saltbush		1
Einadia trigonos ssp. trigonos	Lax Goosefoot		1m
Euchiton japonicius	Creeping Cudweed	Formerly *Euchiton gymnocephalus*, *E. collinus*	1

Species	Common name	Species Notes (inc. Australian/Victorian threatened status)	Banyule Status
Geranium ciliocarpum/G. solanderi var. solanderi/G. sp. 27	Austral Crane's-bill	Formerly *G. solanderi*, recently split into multiple species of uncertain distribution; G. solanderi var. solanderi is Vulnerable in Victoria (DEPI)	1m
Geranium gardneri	Rough Crane's-bill	Formerly *G. trachycaule*	1
Geranium inundatum	Naked Crane's-bill		1
Glycine microphylla	Small-leaf Glycine		1
Gonocarpus tetragynus	Common Raspwort		1
Haloragis heterophylla	Varied Raspwort		1m
Hydrocotyle laxiflora	Stinking Pennywort		1
Hypericum gramineum	Small St John's Wort		1
Leptorhynchos squamatus ssp. Squamatus	Scaly Buttons		1m
Leptorhynchos tenuifolius	Wiry Buttons		1
Luzula meridionalis var. meridionalis / var. densiflora / var. flaccida	Common Woodrush	Formerly *L. meridionalis*, recently split	1
Lythrum hyssopifolia	Small Loosestrife		1
Opercularia ovata	Broad-leaf Stinkweed		1
Opercularia varia	Variable Stinkweed		1
Oxalis perennans	Grassland Wood-sorrel		1
Pimelea curviflora var. 1	Curved Rice-flower		1
Pimelea humilis	Common Rice-flower		1
Plantago varia	Variable Plantain		1
Poranthera microphylla	Small Poranthera		1
Portulaca oleracea	Common Purslane		1
Ranunculus lappaceus	Australian Buttercup		1m
Rumex brownii	Slender Dock		1
Sebaea ovata	Yellow Sebaea		4
Senecio campylocarpus	Floodplain Fireweed		3 (4)
Senecio glomeratus	Annual Fireweed		1
Senecio hispidulus	Rough Fireweed		1
Senecio quadridentatus	Cotton Fireweed		1
Senecio tenuiflorus	Narrow Groundsel	Not listed in Flora of Melbourne 2014, present in Cam Beardsell 2011	1
Solenogyne dominii	Smooth Solenogyne		1
Solenogyne gunnii	Hairy Solenogyne		4
Stackhousia monogyna	Creamy Candles		1m
Stylidium graminifolium	Grass Trigger-plant		1m
Velleia paradoxa	Spur Velleia		1m
Veronica gracilis	Slender Speedwell		1
Viola hederacea	Ivy-leaf Violet		1

Species	Common name	Species Notes (inc. Australian/Victorian threatened status)	Banyule Status
Wahlenbergia communis	Tufted Bluebell		1m
Wahlenbergia gracilis	Sprawling Bluebell		1
Wahlenbergia luteola	Yellowish Bluebell		1m
Wahlenbergia multicaulis	Many-stemmed Bluebell		1m
Grasses			
Anthosacne scabra	Common Wheat-grass	Formerly *Elymus scaber*	1
Austrostipa blackii	Crested Spear-grass		4
Austrostipa curticoma	Short-crown Spear-grass		1m
Austrostipa rudis ssp. rudis	Veined Spear-grass		1
Deyeuxia quadriseta	Reed Bent-grass		1
Dichelachne crinita	Long-hair Plume-grass		1
Eragrostis brownii	Common Love-grass		1
Hemarthria uncinata var. unicinata	Mat Grass		1m
Lachnagrostis aemula	Purplish Blown-grass	Formerly *Agrostis aemula var. aemula*	1
Lachnagrostis filiformis	Common Blown-grass	Formerly *Agrostis avenacea*	1
Microlaena stipoides var. stipoides	Weeping Grass		1
Pentapogon quadrifidus var. quadrifidus	Five-awned Spear-grass		1
Poa labillardieri var. labillardieri	Common Tussock-grass		1
Poa morrisii	Soft Tussock-grass		1
Poa rodwayi	Velvet Tussock-grass		1m
Poa sieberiana var. hirtella	Hairy Tussock-grass		1m
Poa sieberiana var. sieberiana	Grey Tussock-grass		1
Rytidosperma caespitosum	Common Wallaby-grass	Formerly *Austrodanthonia caespitosa*	1
Rytidosperma geniculatum	Kneed Wallaby-grass	Formerly *Austrodanthonia geniculata*	1
Rytidosperma indutum	Shiny Wallaby-grass	Formerly *Austrodanthonia induta*	1m
Rytidosperma laeve	Smooth Wallaby-grass	Formerly *Austrodanthonia laevis*	1
Rytidosperma penicillatum	Slender Wallaby-grass	Formerly *Austrodanthonia penicillata*	1
Rytidosperma pilosum var. pilosum	Velvet Wallaby-grass	Formerly *Austrodanthonia pilosa*	1
Rytidosperma racemosum	Stiped Wallaby-grass	Formerly *Austrodanthonia racemosa*	1
Rytidosperma setaceum var. setaceum	Bristly Wallaby-grass	Formerly *Austrodanthonia setacea*	1
Themeda triandra	Kangaroo Grass		1

Species	Common name	Species Notes (inc. Australian/Victorian threatened status)	Banyule Status
Lilies & Irises			
Arthropodium strictum	Chocolate Lily		1
Bulbine bulbosa	Bulbine Lily		1m
Burchardia umbellata	Milkmaids		1
Caesia calliantha	Blue Grass-lily		1m
Dianella admixta	Black-anther Flax-lily	Formerly *D. revoluta*, recently split	1
Dianella amoena	Matted Flax-lily	Endangered (EPBC); Threatened in Victoria (FFG); Endangered in Victoria (DEPI)	1m
Dianella laevis var. laevis	Pale Flax-lily	Formerly *D. longifolia var. longifolia*	1
Hypoxis glabella var. glabella	Tiny Star		1m
Lomandra filiformis ssp. filiformis / ssp. coriacea	Wattle Mat-rush	Formerly *L. filiformis*, recently split	1
Lomandra longifolia var. longifolia	Spiny-headed Mat-rush		1
Thysanotus patersonii	Twining Fringe-lily		1
Tricoryne elatior	Yellow Rush-lily		1
Wurmbea dioica ssp. dioica	Common Early Nancy		1
Sedges & Rushes			
Carex breviculmis	Short-stem Sedge		1
Carex incomitata	Hillside Sedge		4
Carex inversa	Common Sedge		1
Carex iynx	Tussock Sedge		1m
Juncus homalocaulis	Wiry Rush		1m
Juncus pallidus	Pale Rush		1
Juncus subsecundus	Finger Rush		1
Lepidosperma laterale	Variable Sword-sedge		1
Schoenus apogon	Common Bog-sedge		1
Orchids			
Caladenia carnea	Pink Fingers		1m
Diuris chryseopsis	Golden Moths		1m
Glossodia major	Wax-lip Orchid		1m
Microtis parviflora	Slender Onion-orchid		1
Microtis unifolia	Common Onion-orchid		1
Pterostylis melagramma	Tall Greenhood		1
Pterostylis nutans	Nodding Greenhood		1
Pterostylis pedunculata	Maroon-hood		1
Thelymitra brevifolia	Pepper-top Sun-orchid		1
Thelymitra pauciflora	Slender Sun-orchid		1
Thelymitra peniculata	Trim Sun-orchid		?