















Landscape Design Report

Date issued: 20 October 2021

Prepared for:

Southern Grampians Shire Council 83 Shakespeare St, Hamilton, Victoria 3300

Prepared by:

Outerspace Landscape Architects Studio 48 Level 4, 37 Swanston Street Melbourne Vic. 3000

Contact:

Marti Fooks P 0481 389 952 E marti.f@outerspace.net.au www.outerspace.net.au ABN 56 137 837 355

Client



Engineers



Cost Consultant





Contents.

01/	Introduction.	3		
02/	Background research and site analysis	5		
03 /	Project benchmarks	12		
04/	Design proposal.	17		
05/	Material and planting palette	23		
06/	Heritage interpretation	27		
Attachments				
Α.	Planting design report.			
В.	Landscape Detailed Documentation			
C.	Engineering Documentation			

Issues and Meeting log:

Item	Date	Responsibility
Site Meeting	07.10.2020	OSLA
Presentation and submission of Phase 01 Site Analysis and Background Report	28.10.2020	OSLA
Presentation and submission of Phase 01 Site Analysis and Concept Design Report	17.12.2020	OSLA
Presentation and submission of Phase O1 Site Analysis and Concept Design Report	10.02.2021	OSLA
Submission of Landscape Design Report - For Approval	27.08.2021	OSLA
Submission of Landscape Design Report	20.10.2021	OSLA



01/ Introduction.



01/

The Botanic Gardens - Children's Garden Community Precinct project is a continuation of work outlined in the Botanic Gardens Conservation Masterplan, which has been endorsed by Heritage Victoria. With this understanding and agreed guiding principles, the project will deliver on a key recommendation to construct a Children's Garden within the existing Botanic Gardens boundaries.

The site of the proposed Children's Gardens and Community Precinct is in the Southern corner of the Hamilton Botanic Gardens. The site is approx. 5,500 sqm.

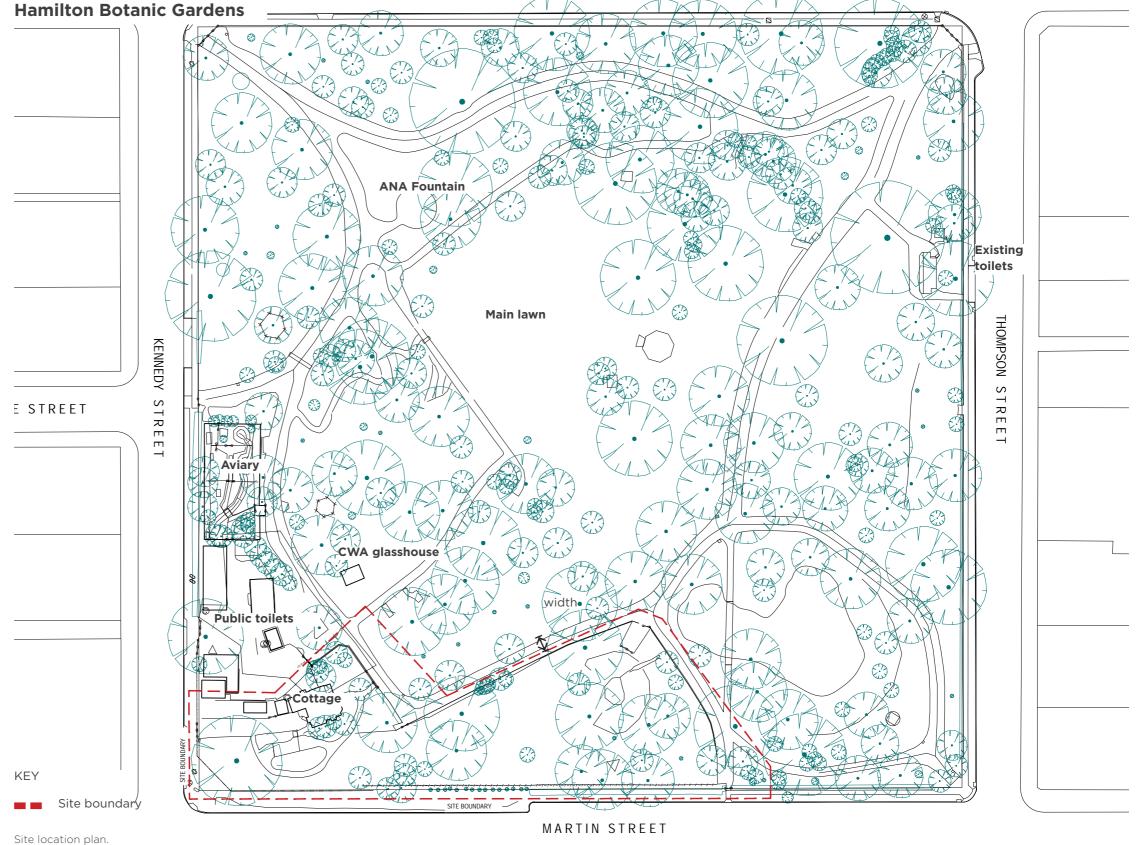
In July 2020 Southern Grampians Shire Council engaged Outerspace Landscape Architects Pty Ltd and design team to prepare the concept design and detailed design for the Children's Gardens. The Design Team consists of:

- Outerspace Landscape Architecture Landscape Architecture
- WSP Australia Civil, structural, electrical, and hydraulic Engineering
- Rider Levett Bucknall Cost Planning
- Plant Agent Specialist Planting Advice
- Artists Romanis Trinham Collaborations

L. Electrical de la constant de la c

Hamilton, Vic Location map.

Introduction.



FRENCH STREET



02/ Background research and site analysis.



E STREET

2.1/

The Hamilton Botanic Gardens is Victoria's fourth oldest botanic garden. Following it's inclusion on the Victorian Heritage Register the Hamilton Botanic Gardens has received the highest heritage protection from the State.

William Ferguson, Director and landscaper from the Royal Botanic Gardens in Melbourne, undertook the first planting in 1870. However from 1881, the gardens were developed to a plan by William Guilfoyle, the curator of the Royal Botanic Gardens and one of Australia's greatest garden designers and botanists. The Hamilton Botanic Gardens is one of the most intact examples of 19th century regional gardens in the State of Victoria, and an important example of the work of Guilfoyle.

This diagram shows the existing site survey overlaid onto Guilfoyle's 1881 drawing.



Figure 2: William Guilfoyle

William Guilfoyle

Guilfoyle's legacy.



FRENCH STREET

Diagram of existing paths and proposed paths as per the Masterplan path network



2.2/

2.2.1 / Masterplan key aspirations.

A Masterplan for the Botanic Garden was prepared in 2014 by Laidlaw and Laidlaw. This document establishes the overall vision gardens including the Children's Garden and Play space.

Extract from the Masterplan:

Nature Based Children's Play Space

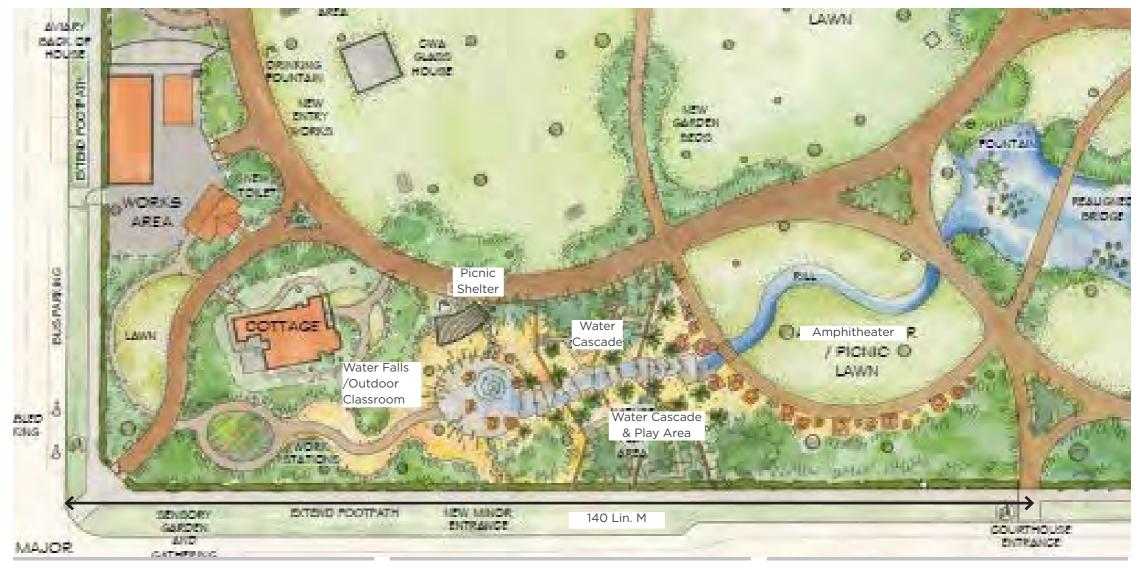
A new, nature based children's play space is proposed on the slope of the hill on the site of the former animal enclosure. The design of this space focuses on the provision of nature based, non-equipment plan with the central feature being a large water play area and rock cascade. A large, decorative paved area at the centre of the space will feature water jets and clambering rocks with water channelling towards the rock cascade. This cascade will be built using local stone and in a form that reflects the local Grange Burn and Wannon Rivers. The cascade will empty into a stone rill which dissects the lower lawn and will appear to empty into the lake, although water will actually be reticulated back to the treated water play area.

A series of stone walls will terrace the play space, with interactive planting, a rock maze, balancing and stepping logs and bluestone shards forming the remainder of the play space. The water features paved area will also double as an event / outdoor classroom space with an over-ride switch allowing the water to be switched off during these events. When water is unavailable the rock cascade will act as a climbing play elements. Picnic facilities including a shelter and BBQ, seats and a drinking fountain will service the play space and sensory garden (see section 2.12). Existing mature trees are to be retained throughout the space.

Review of Hamilton Botanic Gardens Masterplan, 2014.



Volume 1 Cover page



Masterplan drawing



E STREET

2.2.2/ Functional review.

The masterplan describes key directions for site access, DDA access and highlights the sites steep topography.

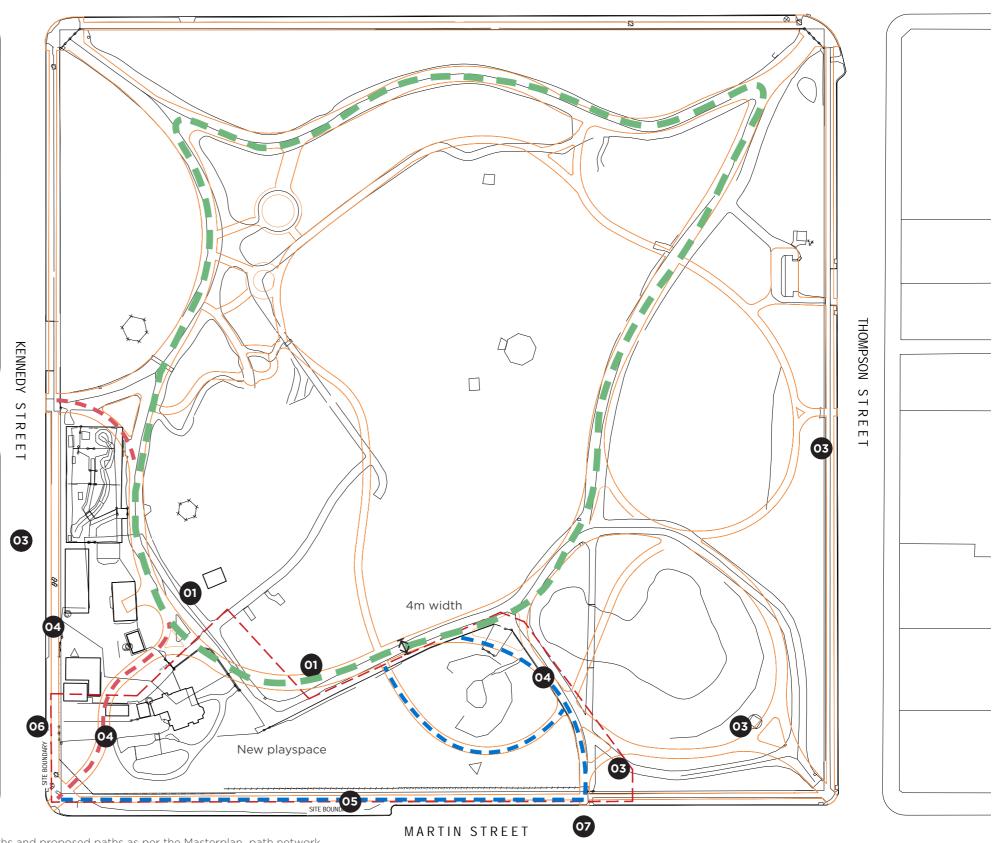
Extract: Masterplan Section 2.1 Circulation, Access and Pathways:

All pathways should continue to be of asphalt construction. When new edging or replacement of the red brick is required mild steel should be used until it is eventually rolled out across the site. Where the pathway is bordered by bluestone garden bed edging this should be retained.

- The major perimeter pathway should be modified to better reflect William Guilfoyle's intentions as per the Master Plan drawing. This path should be narrowed to 4m in width.
- All other connecting pathways should be a consistent width of 1.5m and of the same materials as the perimeter path.
- The straight path leading from the ANA Fountain to the native garden should be modified in accordance with the Master Plan drawing.
- The straight path from the play equipment to the native garden is to be removed.
- The "furcated" entrances to the Gardens intended by William Guilfoyle are to be added/reinstated. This requires modification to the perimeter pathway near the B.C. Naylor entrance.

Access to the Botanic Gardens and Carparking

- Gravel paths along French and Kennedy Streets to be eventually replaced with asphalt.
- External pathway is to be continued along Martin and Kennedy Streets.
- Disable parking bays are to be provided at the new Martin/Kennedy Street entrance.
- Martin street entrances should be a minimum 1800mm wide to allow for DDA access. ie Two wheelchairs to pass or parents with a pram and children in tow.



FRENCH STREET



2.3/

2.3.1/ Existing significant trees.

There are several significant species as part of the botanic collection in this location.

The design for the Children's Garden and Playspace has had to carefully consider the Tree Protection Zones and avoid any significant disturbance in this areas.

Refer to the Arborists Reports as follows for further information:

- Preliminary Aboricultural Report, 16th November 2020 C92104 [202011-SGSC-HamBotGdns-PAR-C92104]
- Preliminary Aboricultural Report, 29th January 2018 CC91059 [201801-SGSC-HamiltonBG-C91059-Pathworks-PAR-Ver1]

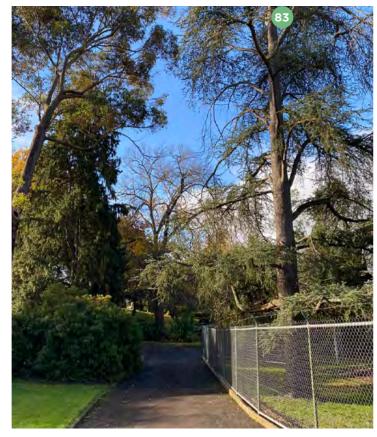
Pinus wallichiana and Pinus radiata which were present in the 1984 survey have subsequently been removed. Pinus wallichiana will be reinstated as part of this project.

Significant existing trees.

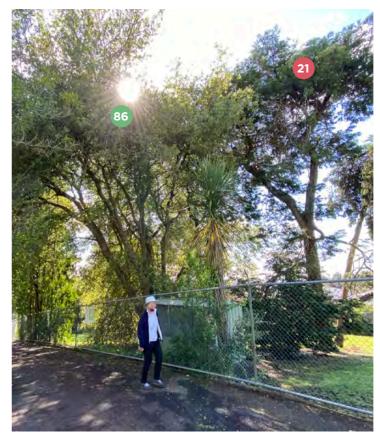
Significant Tree Schedule

Arborists Report Ref No.	Scientific name	Common Name	Proposed treatment.
86	Quercus agrifolia;	Coast Live Oak	Retain and protect
87	Hesperocyparis lusitanica;	Cedar of Goa	Retain and protect
83	Cedrus atlantica f. glauca;	Blue Atlas Cedar	Retain and protect
71	Cordyline australis;	Ti Kouka	Retain and protect
74	Cupressus torulosa;	Bhutan Cypress	Retain and protect
78	Pinus pinaster;	Maritime Pine	Retain and protect.
NA	Platycladus orientalis;	Chinese Arborvitae	Retain and protect
80	two rare Pinus sp. (planted c1985); Pinus nigra var. corsicana (now subsp. laricio).		Remove. Tree has died and must be removed. Refer to Arborists Report.

High Retention Value Trees





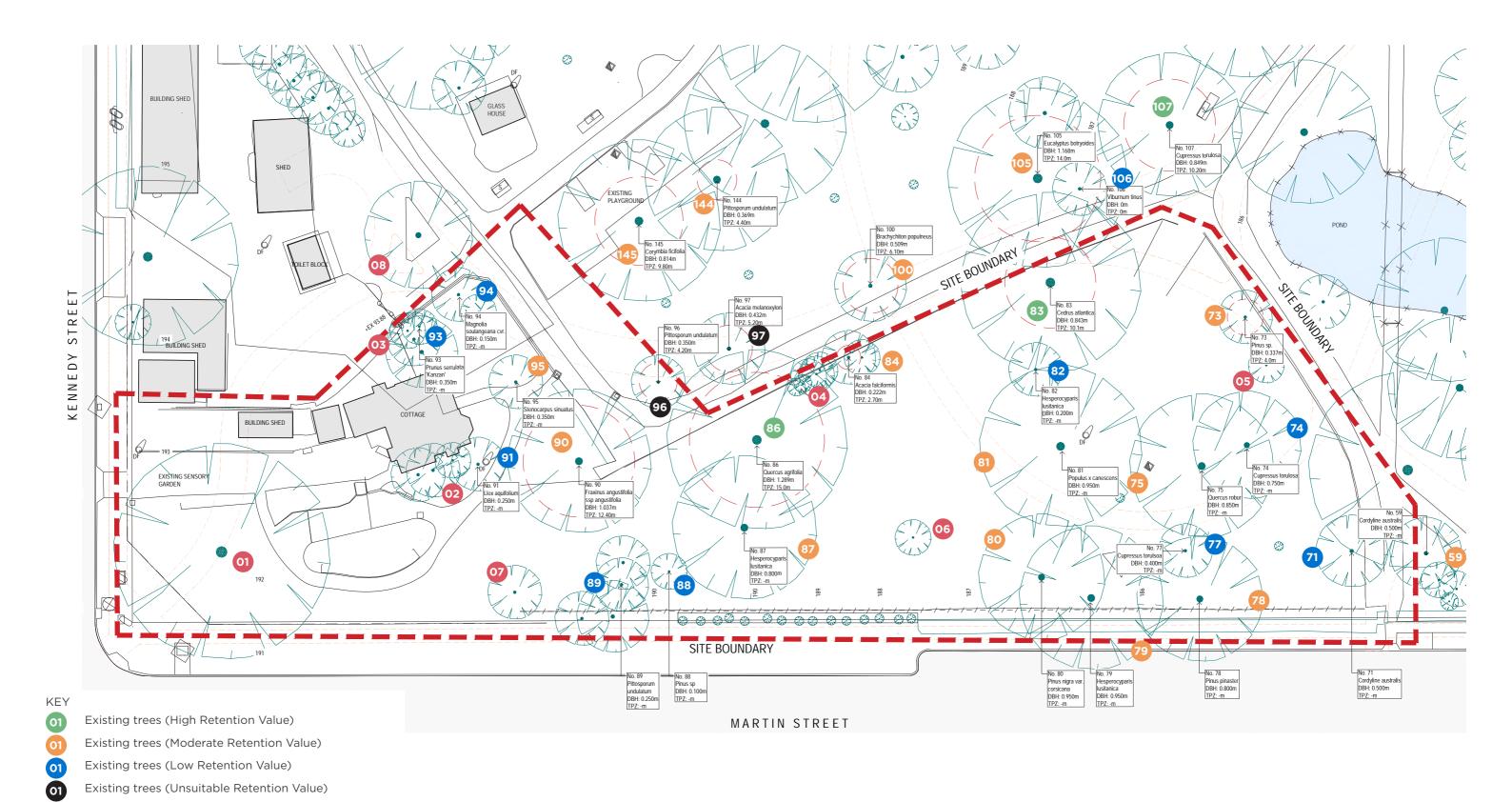




86 Quercus agrifolia National Trust Registered Category A (High Retention Value) ULE 25-50 years

2.3.2/ Significant tree location plan.

Existing trees/ Copse of trees (No Arborists Report)





2.4/

Stakeholder consultation has occurred with:

- Outerspace Landscape Architects Pty Ltd
- Plant Agent Planting Specialist
- Romanis Trinham Artists
- Friends of the Hamilton Botanic Gardens
- Gardener Frank and team
- Uncle Johnny
- Winda-Mara Aboriginal Corporation
- Budj Bim Rangers
- Heritage Victoria

Representatives of Southern Grampians Shire Council:

- Project manager Darren Ames Coordinator Recreation Services
- Evelyn Arnold
- Susannah Milne

Consultation.



Design team meeting with the Friends of Botanic Gardens.



Design team meeting with the Budj Bim Rangers



Design team meeting with the Budj Bim Rangers



03/ Project benchmarks.



03/

3.1/ The Ian Potter Foundation Children's Garden, RGB

Project benchmarks.







Water play area







Secret play areas





Open areas nearby



Playful planting



Scale Comparison

Ian Potter Children's Wild Play 1.15 Hectares

Children's Gardens and Playspace Hamilton 0.6 Hectares



Water rill

Cubbies













3.2/ Cranbourne Botanic Gardens

Key inspiration: A playful landscape rather than play elements.





Water play



Playful Masterplan







Bicycle loop





Water play



Scale Comparison

Royal Botanic Gardens Cranbourne 369.0 Hectares

Children's Gardens and Playspace Hamilton 0.6 Hectares













3.3/ Bridges Road Regional Playspace

The Bridge Road Regional Play Space is within the Bridge Road Athletics Precinct. The community input provided insight as to how children play, interact, discover, socialise and learn. This information was applied in the design process to inform the different areas and types of play across the play space.

The play space includes a variety of play equipment including a flying fox and trampolines, natural play elements such as a sensory garden and water channel, custom play elements such as monkey bars and climbing structures, and picnic facilities for the enjoyment of the whole family.

Bridge Road Playspace project budget: 1.4 million











Sand Play



Sand Play



Water Rill



Custom Bridge Structure



Bridge Road Regional Playspace 69.0 Hectares













3.4/ Centennial Park, Sydney NSW









Climbing structure



Climbing structure





Climbing structure



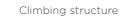


Scale Comparison

Centennial Park 1.15 Hectares

Children's Gardens and Playspace Hamilton 0.6 Hectares







04/ Design proposal.



4.1/

4.1.1 The local landscape.

The Wannon River, a perennial river of the Glenelg Hopkins catchment, is located in the Western District of Victoria, Australia.

Grange Burn is a tributary of the Wannon River and flows to the Hamilton side. The creek, as well as its surrounding areas, is important not just for recreation but also for agriculture and ecology. The waters are home to native fish, which have unfortunately become threatened over time. These include the Glenelg Spiny Crayfish, Little Galaxias, and the Variegated Pygmy Perch. The area is also home to one of the most abundant platypus populations, which visitors may see along the walking trail.

The state of the s

Victorian geology.

Design inspiration



Key watercourses and falls











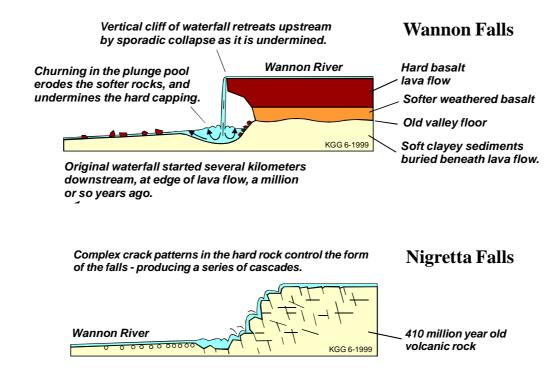
4.1.2 Sketch ideas and design generation.

Wannon Falls

The dark basalt rock of the Wannon Falls is a reminder of its volcanic origins, and deep green mosses grow in the consistently damp environment. Downstream of the Falls, rocks tumble down to form a series of rapids and the narrow river valley walls are lined with chunky outcrops of lichen covered rock.

Nigretta Falls

The Nigretta Falls are made of a much harder, older rock that has lighter terracotta tones and deep grooves incised vertically in the surface. Paths to the bottom of the Falls allow a more intimate experience with the churning waters. Both Falls are seasonally variable, with cascading floods creating dramatic and powerful overflows, that slow to a more sedate flow after periods of lesser rainfall.



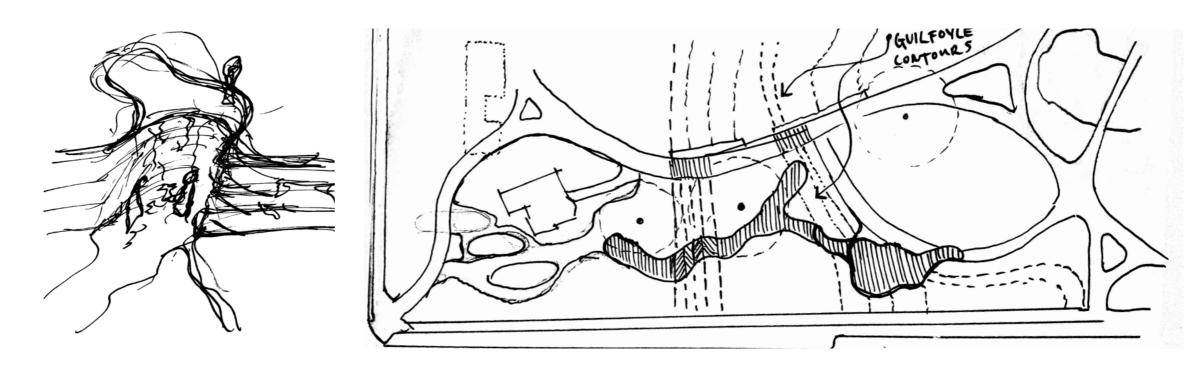


Wannon Falls



Nigretta Falls

Initial Concept Sketches





4.2/

We have created key landscape types with distinctive planting characters and materials. Each will provide children with a different play and interaction experience. The five main areas of the landscape design are:

- The grassland maze
- The lawn spill out
- The water play
- The water cascade
- The fall

These have been informed by the Masterplan and the community consultation process.

Proposed landscape typologies.

The Grassland Maze











The water





The Cascade

The Lawn Spill Out







4.3/

Proposed design.













4.3.2 Design diagrams.

Realizing the Guilfoyle pathway alignment was a key objective of the design. However, given today's DDA standards a ramp is not achievable. Instead, there is a set of DDA compliant stairs, located in between the Tree Protection Zones. This enables easier access from the Martin Street end to the Cottage. Wheelchair access is from either the Kennedy Street end new gate or from Martin street existing access.

The design has two areas of all accessible play - at the top near the water play and at the bottom near the Fall. A sloped playful garden with 1:10 falls spans between the two levels.

There is no wheelchair access into the building.

Accessible Zones and Circulation



Circulation



Wheel chair route



Accessible route (DDA)



Play route



Toilet Block



05/ Materials and planting palette.



5.1/

The proposed materials palette will be cost efficient and easy to maintain. Where possible we have used granitic gravel paving. Insitu concrete paving with exposed aggregate is used to provide with DDA accessibility and around the water channel.

The water channel is made of bluestone paving units. This represents the landscape from which it come - the basalt plains. Paths will be lined with a brick edge. There are a moment of rubber surfacing to provide area for young children to safely play.

The use of hard paving and retaining walls have been minimized as much as possible to avoid the Tree Protection Zones.

The detailing of the furniture is all consistent so that they will be easy to repair or replace if required.

Further detail on the materials selection is provided in the Landscape Selections Schedule document.

Materials palette.



Stone clad wall.



Rubber surface.



Creek bed paving. Bluestone paving units.



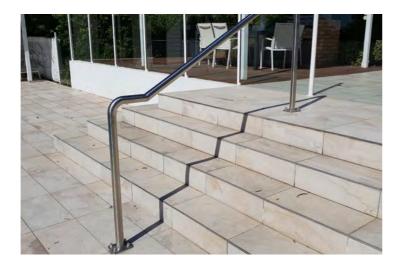
Artwork inspired by fire patterns,



Lawn.



Insitu concrete with exposed aggregate.



Hand rails stainless steel



Circular seat.



Bluestone stair case.



5.2/

Planting palette.

5.2.1 Planting selection criteria and strategies

The planting plan and approach for this project, given its context, will be instrumental to the success of a playful and interactive place. Planting selection has been developed with planting Specialist Plant Agent.

There are several planting selection criteria that were considered.

The final layouts of the plants species will be provided with the For Construction Issue.

SOCIAL

- Children's nature play
- Local community groups and events
- Recreational walkers and picnickers
- Regional visitors

ENVIRONMENTAL

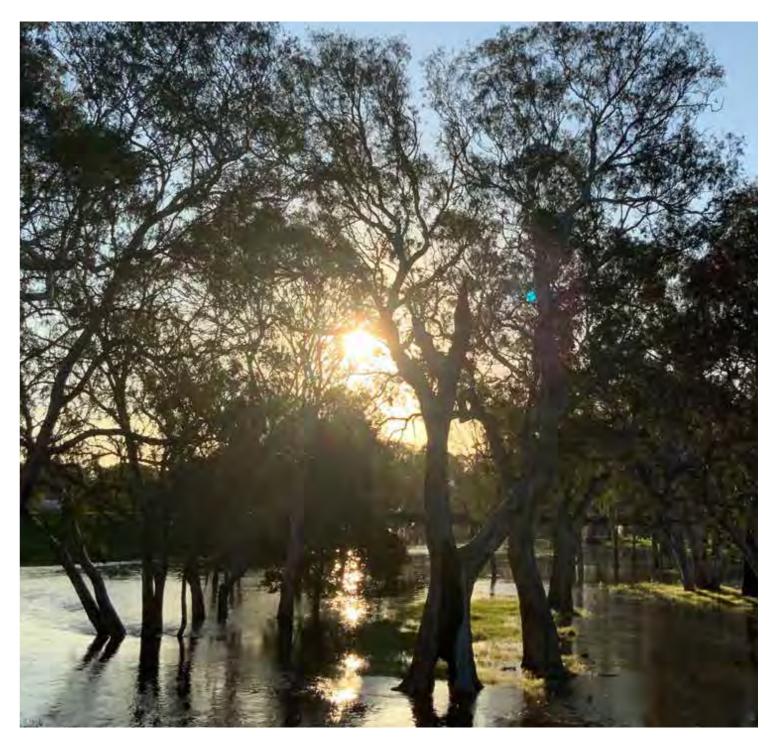
- South-west aspect
- Shade and cooling from hot dry summers
- Light and seasonal variation in cool winters
- Preserve existing significant trees
- Water: respond to seasonal inundation from surface run-off, water-logging and adjacent pond
- Basalt plains geology (impact on drainage) increase structure and diversity

ECOLOGICAL

- Water
- Existing bird and amphibian species
- Indigenous vegetation inc rare and endangered

CULTURE

- Acknowledge indigenous custodians
- Re-interpret Guilfoyle legacy
- Contemporary regional town



Landscape context from Preliminary Planting Design Concepts for Hamilton Botanic Gardens Children's Nature Play Garden











5.2.2 Planting design strategies.

The planting strategies are:

ATMOSPHERE

Amplify cooling and lushness of south-west aspect. Dappling of light to create changeable light conditions at different times of day / year

STRUCTURE

Buffer planting along street boundary and main pathway/ ramp/stairs. Integrate a safe play space.

- Robust species around rocks
- Vertical sculptural forms to cast striking silhouettes and shadows, as well for wayfinding
- Low -medium Management requirements

INDIGENOUS PRESENCE

Accentuate the geology and falls by contrasting sizes of planting combinations i.e. open mid-story

- River Reg Gum regeneration in a simulated floodplain
- Grassy swathes to accentuate low lying, open green expanse

COLONIAL HERITAGE

- Guilfoyle planting techniques
- Mass and void
- Large curving garden beds consisting of various sized shrubs
- Boundary hedge (low 1.2m high)
- Sub-tropical, exotic, bold textured foliage specimens
- Coniferous-type species near boundaries
- Cottage Sensory garden



Guilfoyle's picturesque naturalism



Ficus Parcelli









Vertical elements to announce arrival



Tea-tree groves Mass and void



06/ Heritage interpretation.



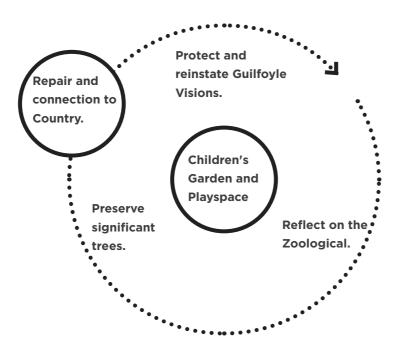
6.1/

Hamilton Botanic Garden, located on Gunditjmara Country, is significant for its botanical and zoological history. In interpreting these complex histories we aim to tell a story about the past and gesture towards the future.

The approach to artwork was developed in collaboration with Romanis Trinham collaborations. We have three/four key narratives of heritage interpretation:

- Repair and connection to country.
- Fire, A story about care and regrowth.
- Essence of before
- Protect and reinstate Guilfoyle Vision
- Reflect on Zoological
- Preserve the botanical significance

Overall approach.





Overall approach to Heritage Interpretation diagram



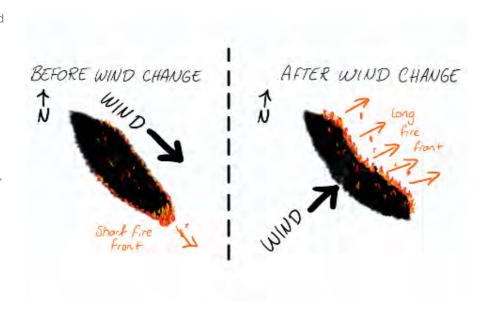
6.2/

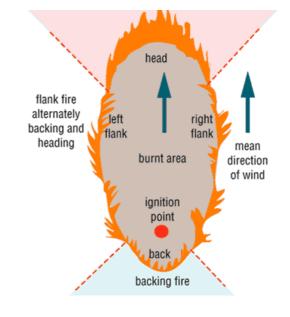
Repair and connection to Country.

6.2.1/ Fire, A story about care and regrowth

Our country is affected by bush fires that are unprecedented in their scale and fueled by unprecedented climatic conditions. Indigenous land management practices and revival of cultural burning practices could help restore our land. Traditional Owners suggest the controlled burning seasons suited to country types could save Australia from mega-fires.

Informed by discussions with the Budj Bim and Gunditjmara, integrated artwork presents fire in a playful lens of burn and heal. We believe the integrated artworks will enable education and discussion around care for country practices.





Fire movement diagram

Fire movement diagram



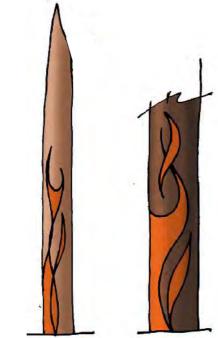




6.2.2/ Fire, A story about care and regrowth

Fire has unique behavior determined by climate, vegetation and topography. It burns outwards from the ignition point forming a ring. This behavior has been translated onto the ground surface in blackened and reddish rubber. Timber posts with fire markings and flashes of red invite children to jump from tree to tree following the fire.

After fire there is regrowth. The regrowth is abundant and bright green, taking the form of 'seedlings' creating a maze for children to run through. The seedlings will be fabricated from blackened steel with moments of iridescent green.





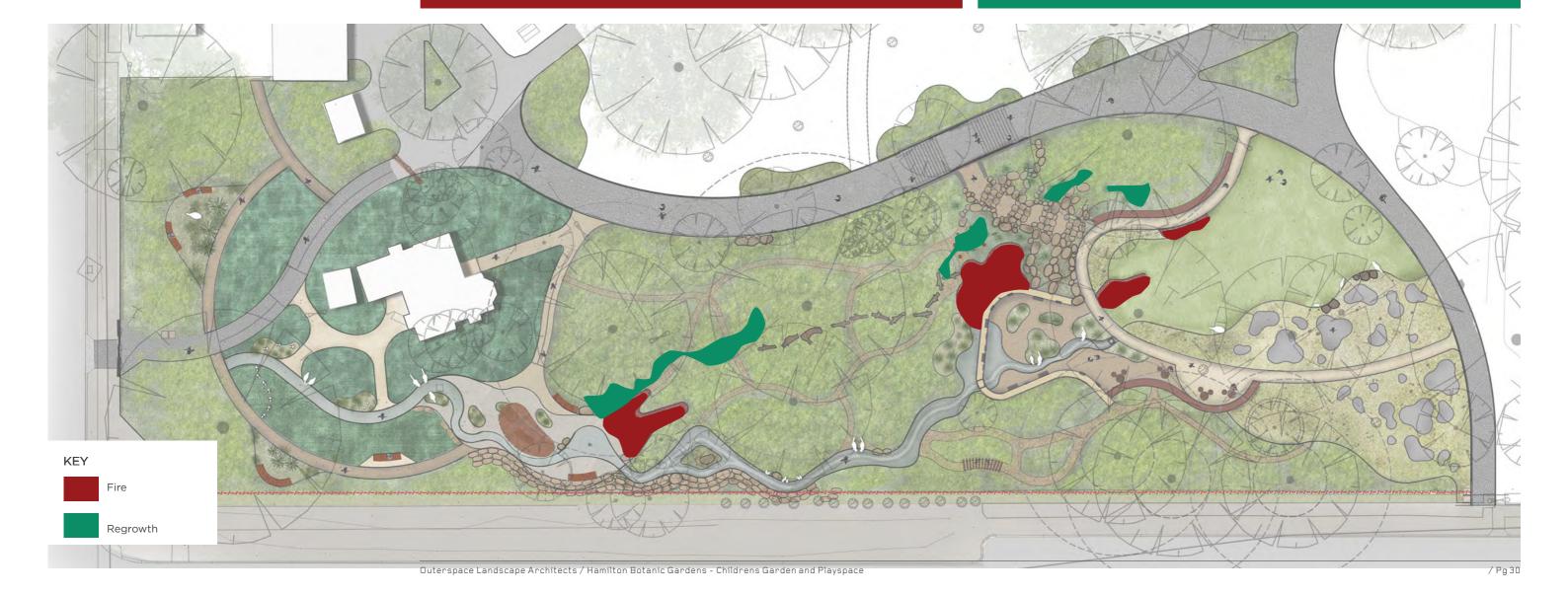






Fire Artwork Examples

Regrowth Artwork Examples





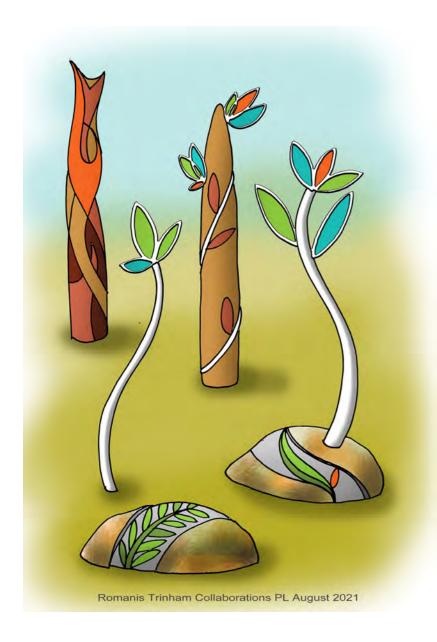






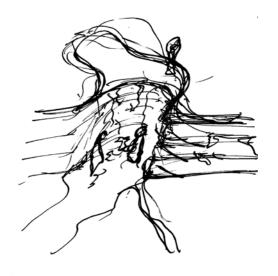


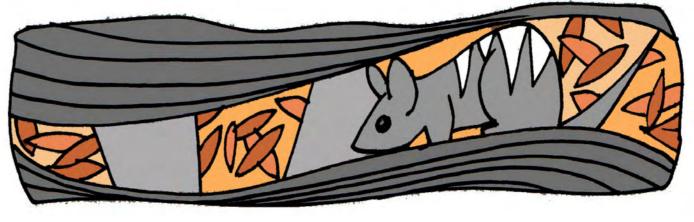
Romanis Trinham Collaborations have compiled these sketches to describe the proposed artwork elements. The locations and structural detailed are covered in the landscape drawings.



6.2.2/ Essence of before

The use of fossilised leaves in the stone will create are essence of the landscape before. Romanis Trinham Collaborations are inspired by the Gondwana era landscape and want to bring these unique elements of discovery to the children's garden. They will be located in the wall of the "The Fall'.













6.3/

Reflect on the Zoological.

6.3.1/ Key exerts from Hamilton Botanic Gardens Conservation Analysis 1993.

Although not a part of Guilfoyle's original vision, Zoological exhibits formed an important component of the Hamilton Botanic Garden since a least mid-1880's. The early fauna was predominantly exotic but in the twentieth century many more Australian animals were included. Over time however menageries have been removed due to changing fashions and animal welfare expectations

The proposed play space is sited on the corner of the gardens which was formerly a menagerie. It contained several animals including kangaroos, emus, birds and even a monkey.

We propose to interpret the Zoological history as well as the changing trends towards animals and landscape in the integrated artworks in the play space.

4.7 ZOOLOGICAL SECTION

History

The earliest known reference to animals in the Hamilton Botanic Gardens was a sum of £1 13 0 paid by the Borough of Hamilton in December 1884 being for 'Freight of Gold Fish'. (1) Possibly these were destined for the newly-formed lake, which by April 1885 certainly sported swans, as indicated by the following extract from the

Understanding from the gardener that the swans when regularly fed do not destroy the flowers your committee recommend that they be kept for the present and that the gardener be authorised to provide food for them. (2)

Curator John Wilson was twice reimbursed in 1885 for 'Food for Swans' and late that year Portland Borough Council wrote to ascertain if Hamilton would part with its swans. (3) As it appeared that the only damage to the garden caused by the swans was the trampling down of very young plants 'it was resolved that the swans

Interest in the swans was heightened in March 1886 when the uncil accepted the offer of Mr R.E. Giles of a pair of white swans for the Botanic Gardens' lake. The promiscuous mix of black and white birds caused concern in some quarters and the Hamilton Spec-tator published a letter from Samuel Winter Cooke, of Murndal, 'as to the "Albion" and "Ethiop" federating and fraternising'.

Sir - We have white swans. Black swans were put on the same sheet of water, and disappeared, though their wings were cut. It was always assumed that the white swans had driven them away. am told by a friend that he has seen, in the public gardens at Hyeres in the south of France, the two varieties on the s of water, living in apparent friendship, but my friend adds that the sheet of water was considerably larger than mine, and I know that the latter is very much more extensive than the lake at the Hamilton public gardens. I think I am correct in saying that both varieties are kept on the same sheet of water in St James' Park in London. I am inclined to be of the opinion that they will not do together on such a small lake as that at Hamilton, but the exper ent could be made. Plenty of food, ample for both kinds, might keep them friendly. (5)

In July 1893 the curator was authorised to continue to get mea for feeding the birds from Mr. Thomas Brown 'in exchange for a few flowers' although a year later he was instructed to obtain an order from the Town Clerk 'when necessary to procure seed for the birds in the gardens'. (6) In June 1892 B H Gummow had been paid 4s 6d for 'Fares & Freight for Fish & Blackbirds', fauna presumably des-

tined for liberation in the gardens. (7)

In October 1900 the Gardens Committee received a letter from the Fish Acclimatising Society, Geelong stating that fry was available. The gardener was instructed to obtain a supply of perch, trout and trench. (8) The basin of the ANA fountain (1908) was also intended to be stocked with fish and planted with aquatic plants. (9)

The earliest known reference to an aviary [q.v.] in the gardens was in 1904 and in January 1906 the Gardens Committee reco 'that about 20 yards of wire netting be provided to enable the curator to build a cage for a pair of eagles'. (10) 'Amongst other gentlemen who have contributed to the adornment of the gardens' commented the Hamilton Spectator in 1908, "is Mr W McQueen, who has donated a small aviary containing 7 canaries, and also a bushel of canary seed. Mr King has also presented another native companion.' (11)
In January 1905 the Gardens Committee recommended to the

council 'not to keep an emu in the gardens' and in July 1909 recommended that the kangaroo yards 'be removed to a place nearer the

In the 1930s, when Hamilton was sewered, plans prepared at that date recorded the existence of a large shed on Kennedy Street, (on the site of the present flight aviary), several smaller cages and a small weatherboard building adjacent to Martin Street in a fenced

animal enclosure. Monkeys were apparently once housed in the zoo-

logical enclosure. Writing in 1961, Huf recorded that Peacocks and swans used to roam the gardens, and make a nui-sance of themselves some years ago. Picnic parties found them very troublesome. Originally the bird cages were down near the ornamental lake, but were moved to their present position near Skene Street when the area for the emus and kangaroos etc. was extend-

My Council has always had a small roo maintained in the Bornais My Council has always had a small zoo, maintained in the potani-cal Gardens near the Caretaker's Residence. In conformity with the new Police Offenses (Animals) Regulations I hereby apply for an application for a permit to keep a private zoo... The birds and animals are well caref for, attended to daily and housed in recently re-built cages. Council will have to build two new cages and alter

There followed a long list of native game and from time to time this list was updated and dispatched to the Director of Fisheries and

The zoological section of Hamilton Botanic Gardens currently consists of a flight aviary [q.v.], a small animal endosure [q.v.] and a large animal enclosure (inhabited by emus and wallabies) on Martin Street. A list of native fauna held at Hamilton Botanic Gardens in

These are all kept in the small display cages opposite C.W.A. glasshouse except peacocks and hens. These free roam around the

Zoological exhibits have formed an important component of the Hamilton Botanic Gardens since at least the mid 1880s. The early fauna was predominantly exotic (swans, goldfish, blackbirds) but in the twentieth century many more Australian animals were included Such a pattern mirrors contemporary attitudes to zoological gardens

In 1857 the Zoological Society of Victoria had been formed and early the next year £3,000 and a 30 acre site in Richmond (opposite the Melbourne Botanic Gardens) were granted by the govnent. (16) A zoo was established and Ferdinand Mueller, director of the Melbourne Botanic Gardens, was also appointed as director of the zoological gardens. (17) Mueller included many animal enclosures within the botanic gardens, although these were swept away by William Guilfoyle, upon his appointment as Director at the Melbourne Botanic Gardens in 1873.

A more wide ranging body – the Acclimatisation Society of Vic-toria – was established in 1861 and included many members of the Zoological Society of Victoria amongst its number. (18) Acclimatisation of both plants and animals was popular during the nineteenth century and Edward Wilson, former Argus editor, argued in 1858 for the need for man to help increase the bounteousness of that antipodean land, Australia, that nature had so incompletely supplied with plants and animals of use to man. Moreover, he asked, had not residents in the Australian colonies an equal right to the pleasures

Native fauna as at 1991 pacific black duck

ed...Mr R. Middleton...enlarged the zoological section. (13)

In February 1965 the council approved expenditure of £400 to

re-fence the kangaroo enclosure. (14)
With introduction of new government regulations, the Town
Clerk wrote in June 1966 to the Secretary of the Fisheries and Wildlife Department:

two existing cages in order to comply with the Regulations and these works have been discussed on the site, by the City Engineer,

peacock and hens canaries lovebirds

enjoyed by Englishmen at home - the beautiful music of English birds and the thrill of hunting the same game as were hunted in England? (19) The Acclimatisation Society of Victoria was granted £5,500 and land at Royal Park, where, in the 1860s the for of the present Melbourne Zoo were established. (20) Gillbank

Dromaius novaehollandiae

Anas superciliosa

common bronzewing pigeon

australian king parrot

turquoise parrot

alexandra's parrot

cape barren geese

white cockatiel

zebra finehes

dama wallaby

stubble quail

crested pigeon

guinea pig

red-rumped parror

Exotic fauna as at 1990

wamp wallaby

king quail

white brush-tailed pos

red-browed firetail finch

red-necked wallaby

mulga parrot blue-winged parrot

Platycercus elegans

Polytelis swainsonii

Alisterus scapularis

Neophema pulchella

Neophema elegans Neophema splendida

Polytelis alexandrae

Psephotus varius Neophema Chrysosto

Cacazua roseicapilla

Ceriopsis novaehollandiae

Nymphicus hollandicus Nymphicus hollandicus Trichosurus vulpecula

103

Poephila guttata Coturnix chinensis

Aegintha Temporalis

Macropus rufogriseus

Macropus engenii Wallabia bicolor

Ocyphaps lophotes

The main purpose of these gardens [at Royal Park] was not so ne main purpose of these gardens (at Koyal Fark) was not so much to display the animals, as to provide a staging depot for animals in transit – for the re-equilibration of animals after long sea voyages, pending their despatch to a rural property or their being 'loosed' on crown land, Unfortunately this did not satisfy the public, who wanted to see exciting (and expensive) animals like lions and tigers. The public eventually won. (21)

The Winter family at Murndal were involved in the Acclimatisation Society of Victoria. Samuel Winter Cooke, nephew of Samuel Pratt Winter, corresponded regarding the swans at Hamilton Botanic Gardens; Perguson and Mueller's consignment of plants to Hamilton in 1870 rep-resented another facet of the Acclimatisation Society of Victoria.

Towards the late nineteenth century there was a marked shift in attitudes towards acclimatisation, zoos and native fauna. Whereas previously native fauna was seen as inferior 'game', it was increasingly viewed as something worthy of protection, especially in light of burgeoning nationalistic sentiment. Nature conservation was accorded increasing recognition - several reserves purely for conservation of native fauna and flora (such as Tower Hill and Wilson's Promontory) were set aside in Victoria from the 1890s – and organisations such as the Royal Australian Ornithological Union (established in 1901) catered for these new concerns. Social changes caused by industrialisation and urbanisation also triggered the development of humanitarian attitudes towards animals. (22)

This shift in attitude was demonstrated in the zoological section

of Hamilton Botanic Gardens in the early decades of the twentieth century. Whilst exotic animals were still featured, native animals were acquired in increasing numbers and the manner in which they were acquired in increasing manners and us market in market and the housed reflected changing attitudes towards confinement of animals; the move from constricted cage to open range enclosure being the most obvious manifestation of this shift. The Flight Aviary reflects the most recent change in attitude and here birds are houses in a large (albeit confined) space with vegetation attempting to simulate that found in natural habitat.

A number of the other Victorian provincial botanic gardens

such as Camperdown, Ballarat, Colac, Williamstown and Wartnambool, had animal enclosures but Hamilton is the only one which continues this tradition (with the possible exception of a small modern aviary at Williamstown). The gardens at White Hills, Bendigo, still retains zoological exhibits, although this garden can no longer be regarded as a botanic garden but rather a municipal park.

Assessment of Cultural Significance

- Zoological exhibits: A ANA Flight aviary: B
- Kangaroo yards: B Bird cages near cottage: N

- Borough of Hamilton, Ledger, 10 December 1884.
- Borough of Hamilton, Committee Minute Book No. 1, f.338, 8 April 1885.
- Borough of Hamilton, Ledger, 13 May 1885 (13s 0d); 12 August 1885 (8s 0d).
- Borough of Hamilton, Committee Minute Book No. 1, £360, 23 October 1885.
- Hamilton Spectator, 6 March 1886, p.2.
- ibid., No. 2, f.365, 25 July 1893; f.411, 9 April 1894.
- Borough of Hamilton, Ledger, 10 June 1892.
- Borough of Hamilton, Committee Minute Book No. 3, f.445, 8 October 1900.
- Hamilton Spectator, 23 March 1908, p.2.
- 10 Borough of Hamilton, Committee Minute Book No. 4, f.378, 18 lanuary 1906.
- 11 Hamilton Spectator, 29 February 1908, p.2.
- 12 Borough of Hamilton, Committee Minute Book No. 4, £317, 24 January 1905; Minute Book No. 15, £238, 8 July 1909.
- 14 Report, [11 February 1965], held in City Engineer's file.
- 15 Copy of letters on City Engineer's file, dated 7 June 1966, 28 June 1967, 6 April 1970.
- 16 Linden Gillbank, 'The origins of the Acclimatisation Society of Victoria: practical science in the wake of the gold rush, Historical Records of Australian Science, 6 (3), 1986, p.369.
- 17 D.M. Churchill, T.B. Muir & D.M. Sinkora, The published works of Ferdinand J.H. Mueller (1825-1896), Muelleria, 4 (1) 1978, p.10.
- 18 Gillbank, op.cit., p.371.
- 19 The Times, 20 and 28 October 1858 as paraphrased in Gillbank, op.cit., p.362.
- 20 Gillbank, op.cit., p.371
- 21 ibid, p.372.
- 22 This section is derived from the discussion in Francine Gilfedder, 'Aviaries in private and public gardens of Victoria: A changing perspective of the landscape', research report, M.L.A., Faculty of Architecture and Planning, University of Melbourne, 1987.



6.3.1/ Proposed sculptures.

Animal sculptures will be located along the banks of the winding water channel, reminding visitors of the previous exhibits and kept animals. There will be a mix of exotic and indigenous species, all that were previously kept at the gardens. Although the exotic animals, will mostly be located near to the cottage and sensory style English garden and the natives' species with the Australian plants, there may be a monkey to find along the way.

The indigenous species will be carved from Victorian basalt, as they are of this landscape, just as the stone is and long lasting. While the exotic animals will be sculptured from steel, perhaps in frames, telling the story of a life in cages and handled materials.

Proposed exotic animals sculptures

- Steel frame
- Fabricated materials
- Steel or composite materials



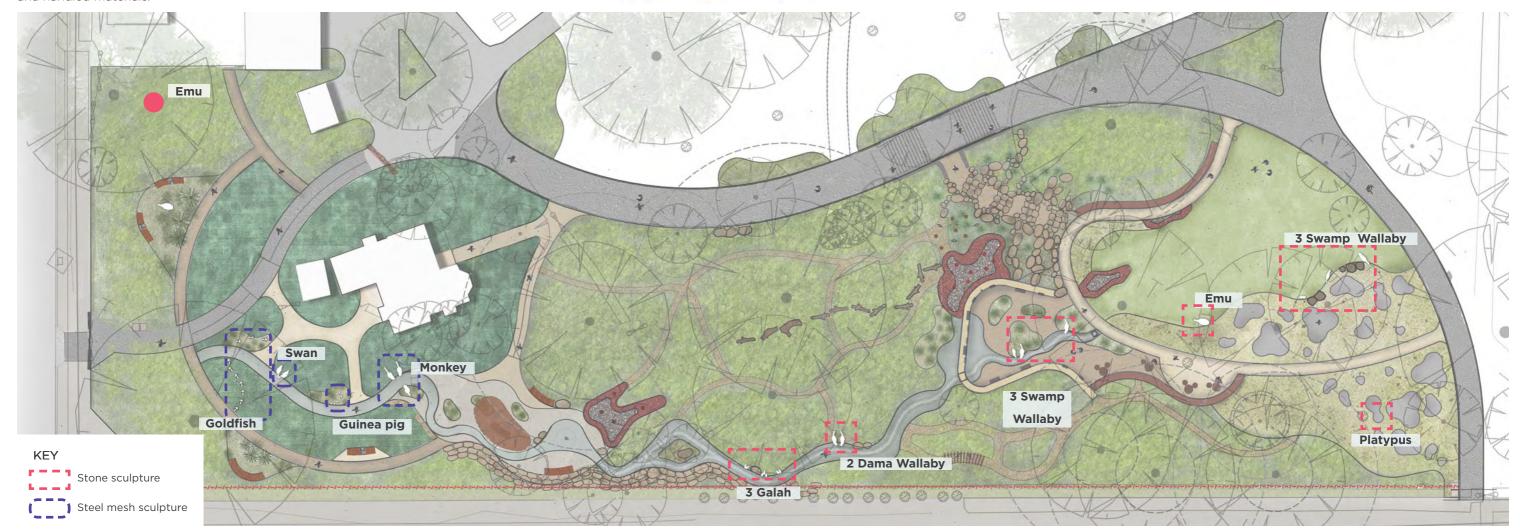
Corten and Stainless Steel rod animals, Representing cages and Topiary Frames.

Proposed native animal sculptures

- Victorian basalt natural stone
- Of country
- Long lasting
- Natural texture
- Responsive to the climate and environment











Attachment A Planting design report.

PRELIMINARY PLANTING DESIGN CONCEPTS

Hamilton Botanic Gardens CHILDREN'S NATURE PLAY GARDEN

December 2020

updated 21 April 2021

In collaboration with Outerspace Landscape Architects



INSPIRATION Landscape context

Iconic Geriwerd (Granpians) formation and vast volcanic plains of south west Victoria.

The landscape embodies an intimate relationship between the indigenous Gunditj

Mirring culture, geology, woodlands, water and fauna.

Right: Wannaon Falls steep drop and erosion from water backwash creates a vivid impression of the power of water. Mist emerging can be an element of the garden, which is accentuated by the backlighting of the open grassy woodland.

Centre: water edge inspires a close an ephemeral interaction with water

Bottom: Velvet carpet of moss hugging rocks and fill in crevices in shady, cool spots for children to feel.









INSPIRATION Landscape context







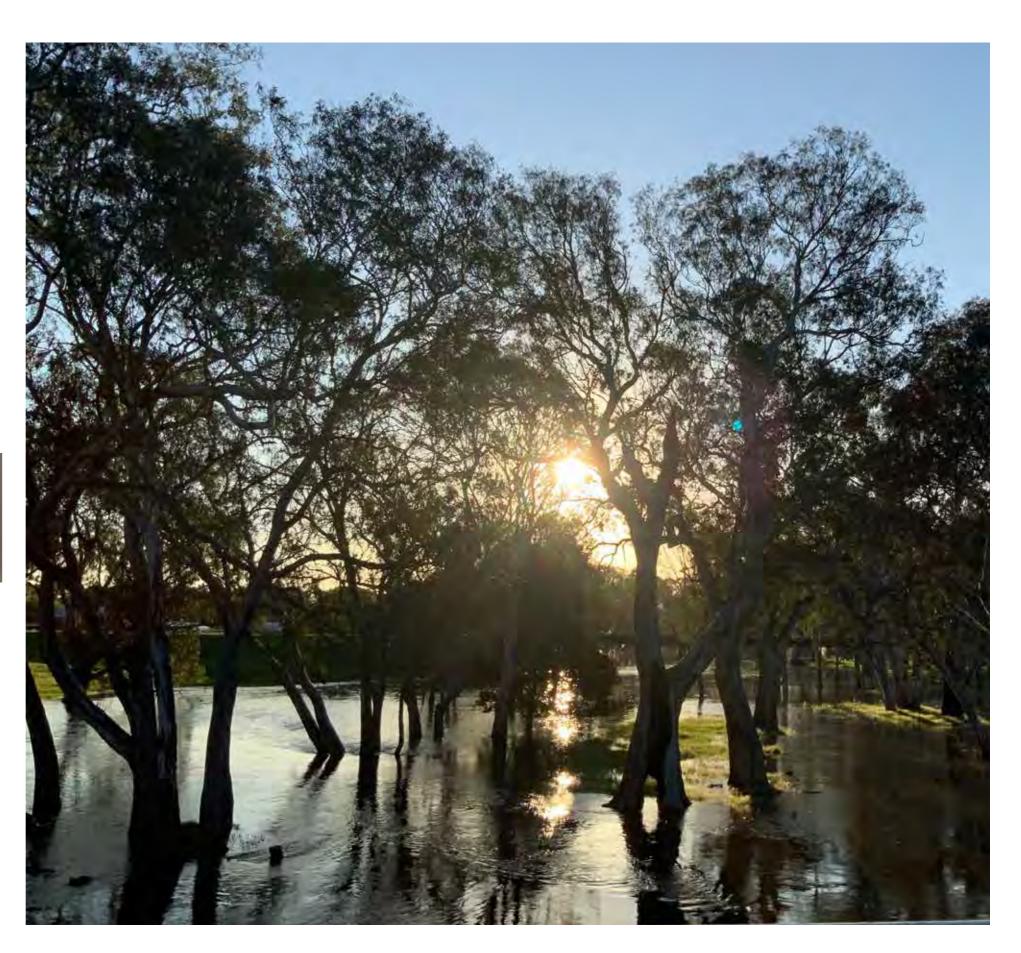




Top: Indigenous grass swathes capture wind and create sound for a more dynamic 'lawn' substitute. Mowing or whippersnipping regimes can be used to create seasonal variations in patterns, such as zigzags, swirls and mazes.

Above: woodland bird species in the region, Yellow Robin, Superb Fairy Wren Male, Spotted Pardalote,

Right: River Red Gum (*Eucalyptus camaldulensis*) river floodplain in Northern Grampians after seasonal inundation. Potential to replicate at HBG with by harvesting surface water at lowest point and planting small seedlings of species.

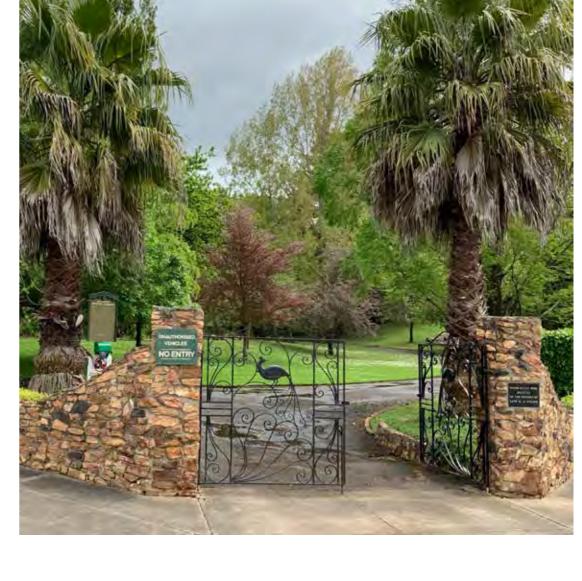


INSPIRATION Site context

Hamilton, VIC regional town in a historic agricultural region. Current regional town revitalisation initiative by state and local governments present opportunities to reignite significant landmarks and amenities, such as Hamilton Botanic Gardens (HBG).







Left: Bridge over pond at HBG is a focal point and natural transition from new Children's Nature Play Garden.
Surrounding lush, strappy species can be repeated into new planting areas, especially along water courses.
Gymea Lily (*Doryanthes excelsa and D. palmerri*) are robust, upright and feature spectacular tall red flower spike . A symphony can be created by repeat planting clumps .

Top right: stone wall a signature element of HBG. The interaction between stone and plants is a recurring theme in the planting design scheme.

Bottom right: Remnant makeshift shelter inspires ideas about cubbies, teepees, groves and caves for children to play and construct.





INSPIRATION Precedents

Looking to planting design precedents that invite play, exploration, spectacle and interaction with water. The previous use of the site as a bird enclosure was fondly remembered by many in the town and region. We hope to recreate a sense of wonder and new memories for a whole new generation of visitors to the gardens.



Top left: Royal Park Nature Play Playground, Melbourne sets a new benchmark. Playspace and planting design are expertly woven. A diverse species selection is key to the aesthetic, ecological, environmental and social performance.

Bottom left: Ian Potter Children's Garden at Royal Botanic Gardens, Melbourne is a triumph. The scale of the space is optimised by intimate groves in many different flavours.

Top right: A sensory showcase at an entrance creates a sense of occasion.

Mass planting for optimal visual and aromatic effect is needed for high impact

Bottom right: contemporary interpretation of a Guilfoyle mass planting at Horse Island. All Australian natives used for contrasting foliage and plant forms.



PLANTING: SELECTION CRITERIA

SOCIAL

Children's nature play

Local community groups and events

Recreational walkers and picnickers

Regional visitors

ENVIRONMENTAL

South-west aspect

Shade and cooling from hot dry summers

Light and seasonal variation in cool winters

Preserve existing significant trees

Water: respond to seasonal inundation from surface run-off, water-logging and adjacent pond

Basalt plains geology (impact on drainage)

Increase structure and diversity of planting

ECOLOGICAL

Water quality to support fauna

Support existing bird and amphibian species

Integrate indigenous vegetation species including rare and endangered

CULTURE

Acknowledge indigenous custodians

Re-interpret Guilfoyle legacy

Contemporary regional town



PLANTING: STRATEGIES

Planting strategies developed in response to Laidlaw & Laidlaw Masterplan, updated client brief, Outerspace Landscape Architects concept design, arborist reports and site visit (9 Oct, 2020)

ATMOSPHERE

Amplify cooling and lushness of south-west aspect Dappling of light to create changeable light conditions at different times of day / year

STRUCTURE

Buffer planting along street boundary and main pathway/ramp/stairs. Integrate as a play space.
Robust species around rocks
Vertical sculptural forms to cast striking silhouettes and shadows, as well for wayfinding
Low -medium Management requirements

INDIGENOUS PRESENCE

Accentuate the geology and falls by contrasting sizes of planting combinations, i.e. open mid-story River Reg Gum regeneration in a simulated floodplain Grassy swathes to accentuate low lying, open green expanse

COLONIAL HERITAGE

Guilfoyle planting techniques

Mass and void
Large curving garden beds c
onsisting of various sized shrubs
Boundary hedge (low 1.2m high)
Sub-tropical, exotic, bold textured foliage specimens
Coniferous-type species near boundaries

Cottage

Sensory garden

CALLITRIS COPSES

A re-interpretation to Guilfoyles penchant for conifer specimens along boundaries. Australia boasts a variety of species in the pine-like genera of Callitris. Here, grown closely to create a strong vertical upright stand, in which children can play hide and seek, build cubbies and explore.





Callitris columellaris
Callitris glaucohylla
Callitris rhomboidea
Callitris oblonga

TEA-TREE GROVES

A range of Tea Tree, *Leptospermum* species are selected for their compact habits to be cloud pruned. Ranging from small to mediums sized, the shrubs are arranged in close clumps to form groves. Crowns are contoured in irregular forms, whilst the bottom branches are lifted to create a vast play space for children, as they sit, crawl and run through the varying gaps of the understory.

Serves as an informal hedge and buffer to path edges, boundary fences and stairs. Foliage is scented and flowers are prolific.

Alternative genera are also considered to simulate a similar effect.









Leptospermum wooroonooran

Leptospermum polygalifolium ' Copper Glow'

Leptospermum 'Riot'

Leptospermum rotundifolium 'Lavender Queen'

Leptospermum 'Daydrean

ROCKY OUTCROPS

Ferny, mossy, orchids and grassy species emerge from rocks and near waterways. The various shades of green combine to create a shimmer with water and light. Hardy and shallow rooted, species are intricately woven along edges, crevices and on rock faces . A safe place can be found for rare and endangered species.







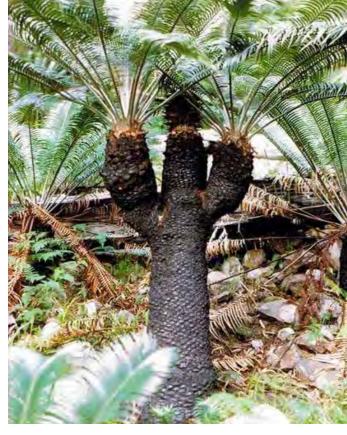












colours and compliment existing stands. The upright stems are stark, especially when accompanied by low, soft and fine textured groundcovers. Gymea Lily (Doryanthes) also used for vertical accent and creating ribbons along the contours.

CORDYLINE AND GYMEA ISLETS

Cordyline is a favourite of Guilfoyle, which display a stunning range of foliage









Mosses, Aspelenium, Brachen, Viola and

Baloskion tetraphylllumm Molineria capitulata, and Macrozamia communis

Geitonoplesium cymosum

Cyathea cooperi and Lepidozamia peroffskyana

RIVER RED GUM AND GRASSY PLAINS

Dedicated areas for self-sowing River Red Gum (Eucalyptus camaldulensis) saplings and grasses from the region. A less formal inflection to HBG, but one that is familiar in the region. Knitting this raw thread into the planting scheme is important symbolically -reconciling indigenous heritage of the landscape. It is also important ecologically for birds and amphibians to be integrated in the gardens.



Eucalyptus camaldulensis, Sapling growth and bark (detail)

GRASSES Microlaena stipoides, in spring (detail) and summer

Additional genera to consider, Danthonia, Austrostipa and Themeda





HYPER-SENSORY GARDEN

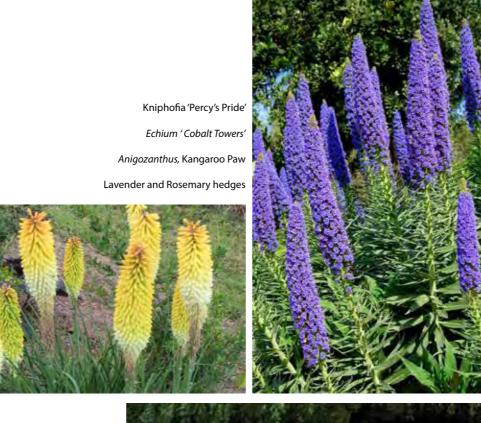
A bold array of colours and aromas planted in mass groupings to make a powerful, year-round sensory impact. The inclusion of Australian native bushfoods brings a new purpose tot the existing sensory garden area. Highly floriferous species are selected to attracted birds, insects, butterflies and bees.























PLANTING LIST

PLANTING THEME	BOTANICAL NAME	COMMON NAME	MATURE HEIGHT/ m	NOTES
CALLITRIS COPSES	Callitris columellaris	Coast Cypress Pine	8	tolerates winds
	Callitris glaucohylla	White Cypress-pin	10	
	Callitris oblonga	Pygmy Cypress Pine	5	prefers wetter conditions
	Callitris rhomboidea	Oyster Bay Pine	6	
TEA-TREE GROVES	Leptospermum wooroonooran Leptospermum polygalifolium	Wooroonooran Tea Tree	2	
	'Copper Glow'	Copper Glow Tea Tree	2-Mar	burgundy foliage, arching branches
	Leptospermum 'Riot'	'Riot' Tea Tree	1.5	bright pink flowers in spring
	Leptospermum rotundifolium 'Lavender Queen'	'Lavender Queen' Tea Tree	1.5	large showy lavender flowers
	Leptospermum 'Daydream'	'Daydream' Tea Tree	2	tolerates damp
	Leptospermum petersonii 'Little Lemon Scents'	'Little Lemon Scents' Tea Tree	2	tough, highly fragrant foliage
	Leptospermum morrisonii 'Burgundy'	'Burgundy' Tea Tree	3	burgundy foliage
	Leptospermum liversidgei 'Mozzie Blocker'	'Mozzie Blocker' Tea Tree	2	crushed leaves repel mosquitos, ideal around water bodies.
	Leptospermum obovatum 'Starry Night'	'Starry Night' Tea Tree	2.5	pendulous branches with striking white flowers
ROCKY OUTCROPS	Asplenium australasicum	Birds Nest Fern	0.6	lush wide, rosette of stiff glossy green leaves
	Blechnum neohollandicum	Prickly Rasp-fern	.34	erect, hardy fern
	Calochlaena dubia	Bracken Fern	.6-2	arching fronds, hardy
	Crinum pedunculatum	Swamp Lilly	0.6	fragrant white flowers and lush strappy foliage
	Cyathea australis	Rough Tree Fern	10	robust in sun if roots can be wet
	Cyathea cooperi	Lacy Tree Fern	3-Jan	faster growing
	Dichondra ripens	Kidney weed		round leaved matting groundcover
	Geitonoplesium cymosum	Scrambling Lilly vine	6	scrambling climber with fragrant flowers
	Lepidozamia peroffskyana	Scaly Zamia	6	prefers sheltered conditions
	Macrozamia communis	Burrawang (Cycad)	1.5-2	grows well in dry shade or sun, wide spreading fronds
	Molineria capitulata	Palm Grass	0.5	suitable for growing under mature, shaded trees

PLANTING THEME	BOTANICAL NAME	COMMON NAME	MATURE HEIGHT/ m	NOTES
CORDYLINE AND GYMEA ISLETS	Cordyline australis	Cabbage Tree	20	
	Doryanthes excelsa	Gymea Lilly	1.2	flower spike can reach between 2-4m tall
	Doryanthes palmeri	Giant spear Lilly	3	heavy 5m tall flower droops under weight. Tall sword like leaves.
RIVER RED GUM AND GRASSY PLAINS	Eucalyptus camaldulensis	River Red Gum	20+	coppice routinely to ensure multiple stems and dense vertical habit
	Austrostipa elegantissima	Feather Spear Grass	0.4	light, feathery 'puff's of seasonal flowers
	Dichelachne crinita	Longhair Plume grass	0.6	tall erect grass
	Microlaena stipoides	Weeping Grass	0.25	soft tufts suited as a lawn substitute
	Themeda triandra	Kangaroo Grass	0.5	rusty, red bronze flower heads in summer
HYPER-SENSORY GARDEN	Anigozanthus flavida cv	Kangaroo Paw	1.5	
	Echium candicans x E. pininana 'cobalt tower'	Echium ' Cobalt Towers'	2	
	Kniphofia 'Percy's Pride'	'Percy's Pride' Hot Pokers	0.7	
	Lavendula dentata	French lavender	0.6	tolerates a range of conditions, inc. humidity
	Rosmarinus officinalis 'Tuscan Blue	Tuscan Rosemary	0.6	,
Native bushfoods	Austromyrtus dulcis Backhousia citriodora	Midgenberry	0.5	
	Citrus australasica	Lemon Myrtle Finger Lime	12 2	
	2		_	

TREE REVIEW

Review arborist report of existing trees. Assess at site and select specimens to be retained. To be discussed further with stakeholders.





- RETAIN
 59 Cordyline australis
 71 Cordyline australis
 75 Quercus robur
 83 Cedrus atlantica glauca
 91 Ilex aquifolium
 93 Prunus serrulata 'Kanzan'
 94 Magnolia x soulangeana cvr.
 95 Stenocarpus sinuatus

RETAIN - confirm species

Quercus?

REQUIRE FURTHER CONSULTATION

- 78 Pinus pinaster
- 89 Pittosporum undulatum90 Fraxinus angustifolia ssp. angustifolia



Attachment B Landscape documentation.



Attachment C Engineering documentation.

