Elster Creek and Elwood Main Drain Flood Mitigation Works (Phase 1 – Elwood Diversion Drain Augmentation)

Planning Report – City of Port Phillip

City of Port Phillip
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Prepared for Melbourne Water
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Document Acceptance

Action	Name	Signed	Date
Prepared by	Annie Harwood and Hannah Littlejohn		18 December 2024
Reviewed by	Amy Gason		18 December 2024
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on behalf of	Water4Good		

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1 Introduction

This Planning Report has been prepared by Water4Good on behalf of Melbourne Water for activities associated with the Elster Creek and Elwood Main Drain (MD) Flood Mitigation Works (the Project). The planning permit application is triggered under the Port Phillip Planning Scheme to:

- Remove and plant any vegetation pursuant to Clause 43.02: Design and Development Overlay – Schedule 10 (DDO10)

1.1 Project overview

The Elwood area was originally low lying marshland which was reclaimed progressively from 1865 through the construction of a canal system for drainage and by filling large areas of land to be used for housing. In 1955, a diversion drain was constructed from the intersection of New Street and Murphy Street to Port Philip Bay at the western end of Head Street (The Elwood Diversion Drain), including the construction of the concrete pier which is colloquially known as the Elwood Pier (i.e. HO515). In 1996, a large retarding basin and lake system was constructed in Elsternwick Park to provide attenuation of flood peak flows however the residential catchment downstream of the park is still significantly affected (more than 600 homes) during 1% Annual Exceedance Probability (AEP) events.

The Project aims to reduce the impact of flooding downstream of Elsternwick Park, by diverting additional floodwater via the augmented Elsternwick Diversion Drain, direct to the Bay.

The Project objectives will be achieved by diverting flows away from Elster Creek through a proposed overland floodway in Elsternwick Park, under Bent Avenue through existing culverts and towards a new drain inlet structure.

The works will be delivered as two distinct and separate phases[1]:

- Works west of Elsternwick Park and onto the foreshore of Port Phillip Bay (**Phase 1**) i.e. the subject of this application.
- [Not within scope of this planning permit application: Works within Elsternwick Park & Yalukit Willam Nature Park (Phase 2).]

Works west of Elsternwick Park and onto the Port Phillip Bay foreshore (Phase 1): Drain augmentation

The subject of this planning application is the proposed works during Phase 1 shown in Figure 1 which include:

- Installation of 660m of dual 4.2m x 2.1m[2] x 2.44m pre-cast culverts (below ground) from Elsternwick Park (across St. Kilda St, Ormond Esplanade, Elwood Reserve and Head St) to the Port Phillip Bay foreshore
- Construction of an expanded beach outlet structure, to replace the existing structure that has reached the end of its life, with an asset that consist of 5 rows of 4.2m wide culverts, 2.4m high and which extends approximately 60m into Port Phillip Bay (the same length as the current beach outlet that is to be replaced by the larger outlet structure)

[1] The scope of works pertaining to this Planning Permit application is that of Phase 1 only. A separate Planning Permit application will be submitted (if required) for works pertaining to Phase 2 once the detailed design is sufficiently progressed to be sufficient to inform a consent application

[2] Depth is 2.1m high from inlet to far side of Ormond Esplanade, 2.4m from Ormond Esplanade to Head Street, 1.8m crossing head street and then up to 2.4m at Elwood Pier.

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- Reprofiling of Head Street road to allow sufficient cover over the piles crossing beneath it, existing road drainage will be modified as per the new arrangement.
- Modification of existing inlet structure in Elsternwick Park and re-profiling of the ground in that location.
- Site reinstatement back to existing conditions or to agreed landscaping conditions as negotiated with the relevant Council, as appropriate.

A copy of the Approved Construction Drawings are provided for information at Appendix A.



Figure 1: Drain augmentation (Phase 1)

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Works within Elsternwick Park & Elsternwick Nature Park (Phase 2): Overland floodway

For information and completeness, works within Elsternwick Park & Yalukit Willam Nature Park associated with Phase 2 are described below, however these are not within the scope of this planning permit application.

Proposed works during Phase 2 include:

- Modification of the existing Elster Creek Throttle
- Earthworks within Elsternwick Park to create a floodway (from Elster Creek to Bent Avenue culverts)
- Modifications to the artificial lake in Elsternwick Park (south of Bent Avenue)

The construction methodology was developed to reduce impacts on the receiving environment and limit disruption to existing recreational values such as the beach, public paths and roads (note: sporting activities will be relocated to an alternate location during construction).

The Project will be delivered in stages and environmental impacts will be managed through a Construction Environment Management Plan (CEMP).

Construction is proposed to commence in June 2025, with an approximately 22 month works duration. Pier works are scheduled to occur in January 2026 (pending tender schedule submission). It is noted that this is a conservative scenario, and dates will be adjusted once the baseline program is prepared in March 2025 following contract award to the construction contractor.

1.2 Environmental and planning approvals review

As the Project is in an environmentally sensitive location, environmental planning and ecological due diligence assessments were undertaken within the Project Area to inform understanding of the site's environmental context.

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Findings from these due diligence investigations were utilised to guide and facilitate Project development, identify the most significant environmental values to prioritise impact avoidance, and support the relevant statutory approval processes. An overview of how these investigations informed the Project's primary approval pathway is outlined in Table 1.

The Project will also obtain construction phase approvals (e.g. local law permits), as required.

Table 1: Approvals overview review

Relevant legislation & approval	Authority	Approval required?	Discussion
Environment Protection and Biodiversity Conservation Act 1999 (EPBC Act)	Department of Climate Change, Energy, the Environment and Water (DCCEEW)	No	There are no identified 'matters of national environmental significance' located within the Project Area.
Environmental Effects Act 1978 (EE Act)	Department of Transport and Planning	No	The project does not trigger the requirement for a referral under the EE Act as: • Native vegetation removal is less than 10 hectares, • There was no State Significant (FFG Act listed) flora observed in the area during the Biodiversity Assessment, • There was no State Significant fauna observed in the area during the Biodiversity Assessment, • Given the modified nature of the Project Area and the landscape context, significant fauna species are considered unlikely to rely on habitat within the Project area for foraging or breeding purposes.
Planning and Environment Act 1987	City of Bayside	Yes	An assessment of the proposed works under the relevant planning controls was undertaken and found that a planning permit is required pursuant to the following sections of the Bayside Planning Scheme: • Vegetation Protection Overlay – Schedule 1 (VPO1) (native vegetation removal) • Heritage Overlay – Schedule 515 (HO515) (demolition of a heritage structure) • Clause 52.17 – Native Vegetation A separate planning permit application will be submitted to City of Bayside.
	City of Port Phillip	Yes	An assessment of the proposed works under the relevant planning controls was undertaken and found that a planning permit is required pursuant to the following sections of the Port Phillip Planning Scheme: • DDO10 (vegetation removal and planting) These triggers are discussed further in Section 4.

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Relevant legislation & approval	Authority	Approval required?	Discussion
Flora and Fauna Guarantee Ac 1988 (FFG Act)	Department of Energy, Environment and Climate Action (DEECA)	No	There were no State significant flora and fauna recorded during the ecological field assessment.
Marine and Coastal Act 2018 (MACA)	DEECA	Yes	The project includes works within marine and coastal Crown land, and therefore MACA consent is required to be obtained from DEECA. The MACA consent application will be submitted concurrently to the planning permit application, with a copy provided to both Council and DEECA.
Aboriginal Heritage Act 2006	Wadawurrung Traditional Owners Aboriginal Corporation	No	A Preliminary Aboriginal Heritage Test (PAHT) has been approved for the Project which confirms the presence of significant ground disturbance and an exemption from the preparation of a Cultural Heritage Management Plan (CHMP) under the *Aboriginal Heritage Act 2006*. A copy of the approved PAHT is provided at Appendix B.
Heritage Act 2017	Heritage Victoria	No	No Victorian Heritage Register (VHR) or Victorian Heritage Inventory (VHI) sites are located within the Project Area.

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2 Site description

2.1 Project Area

The Project Area (refer to Figure 2) is located approximately eight kilometres south east of the Melbourne CBD. The Project is located within a complex environment and must acknowledge and respond to:

- The coastal context;
- The mosaic of stakeholder and landholder interfaces; and
- Delivery/construction specific requirements (e.g. laydown and temporary works).

The Project Area spans across two Local Government Areas (LGAs) – City of Bayside and City of Port Phillip[3].



Figure 2: Project Area Map

2.2 Land ownership

A significant portion of land within the Project Area is Crown Land including Head Street Reserve, the foreshore sporting fields and Elwood Foreshore (refer to Figure 3).

With respect to the management of land within road reserves, sporting facilities, parks, and waterways, the following land managers have responsibility:

- Road reserves – Ormond Esplanade and St Kilda Street – VicRoads (Department of Transport)
- Road reserves – Head Street – Local Road (Council boundary intersects centre of road)
- Foreshore Sporting Fields, Elwood Foreshore, Head Street Reserve – City of Port Phillip
- Port Phillip Bay Local Ports Manager – Parks Victoria

[3] A planning permit is also triggered for the project under the Bayside Planning Scheme.

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- Elster Creek – Melbourne Water.



Figure 3: Land Ownership in the Project Area

2.3 Land subject to planning approval

Planning approval is required to facilitate the proposed works in the parcels of land identified in Table 2 and Figure 4.

Table 2: Title particulars and land ownership

Map ID	Address	Crown description	Crown land administrator	Encumbrances
1	69A Ormond Esplanade Elwood	Crown Allotment 13A at Elwood, Parish of Prahran	City of Port Phillip	Reservation MI181848N. This encumbrance permanently reserves this Crown land for public recreation purposes.
2	T1/135A Ormond Esplanade, Elwood	Crown Allotment 13B at Elwood, Parish of Prahran	City of Port Phillip	Reservation MI181843Y. This encumbrance temporarily reserves this Crown land for public recreation purposes.
3	T1/135A Ormond Esplanade, Elwood	Crown Allotment 13C at Elwood, Parish of Prahran	City of Port Phillip	Reservation MI181829S. This encumbrance temporarily reserves this Crown land for public recreation purposes.

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Figure 4: Land subject to planning approval

Title particulars are provided at details are provided in Appendix C.

Melbourne Water are currently in discussions with City of Port Phillip about the Project and obtaining a land use agreement to occupy Council land during construction.

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3 Legislation and planning context

The Project Area is located within the Cities of Bayside and Port Phillip. Therefore, the Bayside and Port Phillip Planning Schemes provide the framework that prescribes the statutory planning controls under the *Planning and Environment Act 1987* for the Project.

A planning permit is triggered for the project under the Bayside and Port Phillip Planning Schemes, however, the following sections only discuss planning controls under the Port Phillip Planning Scheme.

The proposed works are considered a 'minor utility installation' which is defined at *Clause 73.03 – Land Use Terms* of the Port Phillip Planning Scheme as land used for a utility installation comprising of:

b. Storm or flood water drains or retarding basins

3.1 Planning policy frameworks

The State and Local planning policy framework includes a number of policies that are relevant to the consideration of the Application. The key clauses and their objectives are outlined below.

3.1.1 State planning policy framework

***Clause 12: Environmental and* landscape values**

Planning should help to protect the health of ecological systems and the biodiversity they support (including ecosystems, habitats, species and genetic diversity) and conserve areas with identified environmental and landscape values.

Planning must implement environmental principles for ecologically sustainable development that have been established by international and national agreements. Foremost amongst the national agreements is the Intergovernmental Agreement on the Environment, which sets out key principles for environmental policy in Australia. Other agreements include the National Strategy for Ecologically Sustainable Development, National Greenhouse Strategy, the National Water Quality Management Strategy, Australia's Strategy for Nature 2019-2030, the National Forest Policy Statement and National Environment Protection Measures.

Planning should protect, restore and enhance sites and features of nature conservation, biodiversity, geological or landscape value.

Clause 13: Environmental risks and amenity

Planning should strengthen the resilience and safety of communities by adopting a best practice environmental management and risk management approach.

Planning should identify, prevent and minimise the risk of harm to the environment, human health, and amenity through:

- Land use and development compatibility.
- Effective controls to prevent or mitigate significant impacts.

Planning should identify and manage the potential for the environment and environmental changes to impact on the economic, environmental or social wellbeing of society.

Planning should ensure development and risk mitigation does not detrimentally interfere with important natural processes.

Planning should prepare for and respond to the impacts of climate change.

Clause 14: Natural resource management

Planning is to assist in the conservation and wise use of natural resources including energy, water, land, stone and minerals to support both environmental quality and sustainable development.

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Planning should ensure agricultural land is managed sustainably, while acknowledging the economic importance of agricultural production.

Clause 15: Built environment and heritage

Planning is to recognise the role of urban design, building design, heritage and energy and resource efficiency in delivering liveable and sustainable cities, towns and neighbourhoods.

Planning should ensure all land use and development appropriately responds to its surrounding landscape and character, valued built form and cultural context.

Planning should protect places and sites with significant heritage, architectural, aesthetic, natural, scientific and cultural value.

Planning should incorporate measures to protect culturally significant heritage places in locations exposed to climate related hazards.

Planning must support the establishment and maintenance of communities by delivering functional, accessible, safe and diverse physical and social environments, through the appropriate location of use and development and through high quality buildings and urban design.

Planning should promote excellence in the built environment and create places that:

- Are enjoyable, engaging, and comfortable to be in.
- Support human health and community wellbeing.
- Accommodate people of all abilities, ages and cultures.
- Contribute positively to local character and sense of place.
- Reflect the particular characteristics and cultural identity of the community.
- Enhance the function, amenity and safety of the public realm.

Planning should promote development that is environmentally sustainable and minimise detrimental impacts on the built and natural environment.

Planning should facilitate development that:

- Is adapted and resilient to climate related hazards.
- Supports the transition to net zero greenhouse gas emissions.
- Minimises waste generation and supports resource recovery.
- Conserves potable water.
- Supports the use of, and access to, low emission forms of transport.
- Protects and enhances natural values.
- Minimises off-site detrimental impacts on people and the environment.

3.1.2 Local planning policy framework

Clause 12.01-L: Urban Forest

Retain significant trees.

Encourage opportunities for landscaping that contribute to biodiversity and provide habitat including the planting of canopy trees and green roofs and walls.

Support tree and plant selection suitable to a drier climate, and resistant to storms.

Ensure development protects significant trees and vegetation through siting and design.

Support innovative approaches to landscape design and construction, including greater use of indigenous plant species and species that benefit biodiversity.

Clause 12.02-1L: Protection of Port Phillip's coast

Protect and enhance coastal trees and vegetation along the foreshore to provide shade, enhance biodiversity and provide wildlife habitat.

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Protect and enhance beach dunes through vegetation, fencing and design solutions.

Protect key sites of natural heritage significance within the Port Phillip foreshore, including:

- Remnant foreshore grassland in Perce White Reserve.
- Coastal dune vegetation in the Princes Street and Kerferd Road Foreshore area, Port Melbourne.
- Remnant coastal dune grassland and planted native vegetation in the West Beach and Fraser Street dunes.
- Remnant coastal dune scrub in Point Ormond Reserve.
- Remnant Estuarine Flats Grassland in St Kilda West Beach and Sandridge Foreshore in Port Melbourne.
- Tea Tree Reserve and Elwood Foreshore Reserve.

Ensure design and development of all maritime structures (land and sea based):

- Can provide for the needs of boater and other users on both land and in the water.
- Minimises any adverse environmental impact, including impacts on water quality, sediment movement and significant environmental features.
- Can be integrated with other community amenities.
- Provides shared access.
- Maximises public benefit.

Clause 15.03-2S: Aboriginal cultural heritage

Identify, assess and document places of Aboriginal cultural heritage significance, in consultation with relevant Registered Aboriginal Parties, as a basis for their inclusion in the planning scheme.

Provide for the protection and conservation of pre-contact and post-contact Aboriginal cultural heritage places.

Ensure that permit approvals align with the recommendations of any relevant Cultural Heritage Management Plan approved under the Aboriginal Heritage Act 2006.

3.2 Zoning

The portion of the Project Area within the City of Port Phillip traverses several different zones under the Port Phillip Planning Scheme (refer to

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Figure 5), including:

- Public Park and Recreation Zone (PPRZ)
- Neighbourhood Residential Zone – Schedule 1 (NRZ1): *Neighbourhood Residential Areas – Fine Grain Inner Urban*
- Transport Zone 2 (TRZ2): *Principal road network*
- General Residential Zone – Schedule 1 (GRZ1): *General Residential Areas*

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Figure 5: Port Phillip Planning Zones in the Project Area

3.3 Overlays

The portion of the Project Area within the City of Port Phillip is affected by a number of overlays under the Port Phillip Planning Scheme (refer to

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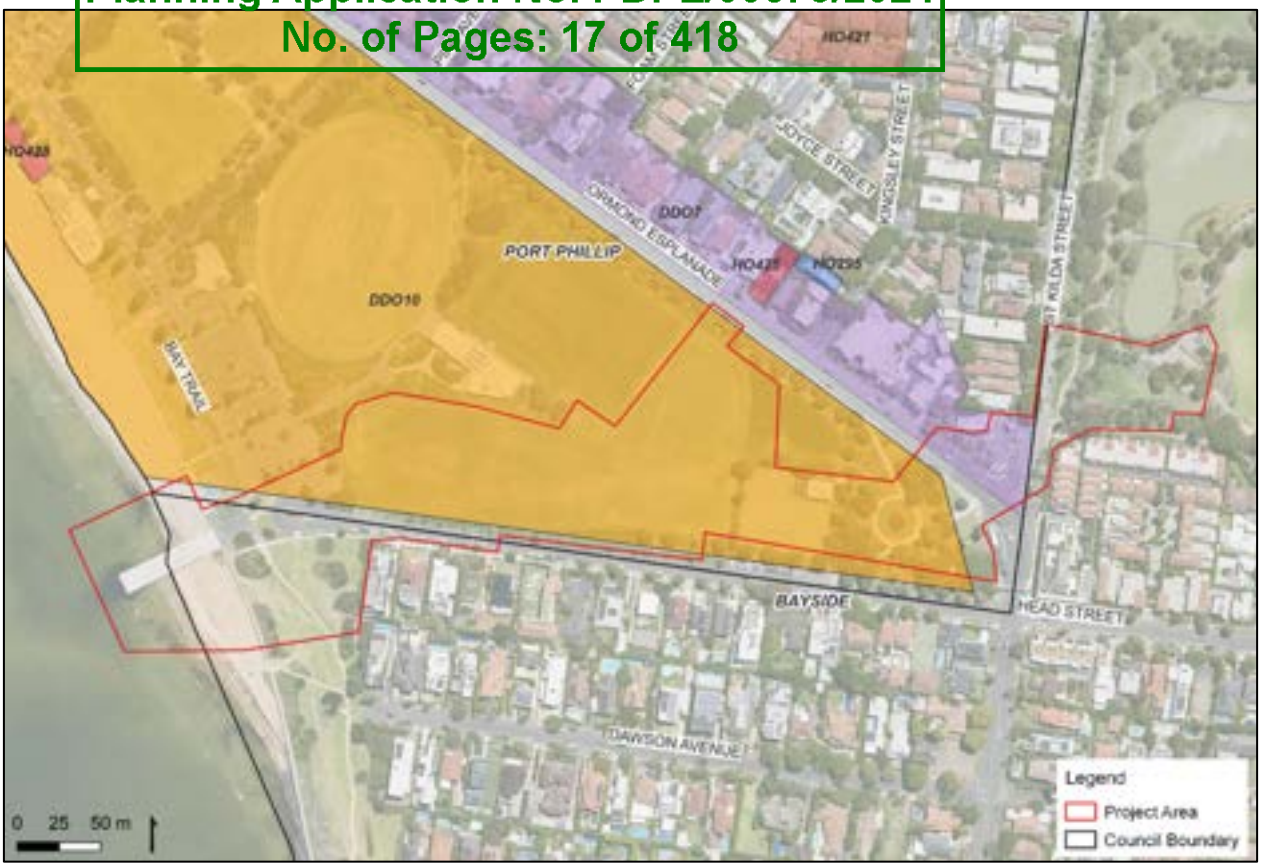


Figure 6 and



Figure 7), including:

- Design and Development Overlay – Schedule 7 (DDO7): *Marine Parade and Ormond Esplanade*
- Design and Development Overlay – Schedule 10 (DDO10): *Port Phillip Coastal Area*

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- Special Building Overlay – Schedule 2 (SBO2): *Port Phillip City Council Local Drain*



Figure 6: Port Phillip Planning Scheme Overlays (all except Land Management) and the Project Area

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Figure 7: Port Phillip Planning Scheme Overlays (Land Management) and the Project Area

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4 Planning permit triggers

An assessment of the proposed works against the relevant controls of the Port Phillip Planning Scheme was undertaken to determine the planning permit triggers.

The Project is considered a 'minor utility installation' as defined under Clause 73.03 – Land use terms of the Port Phillip Planning Scheme as land used for a utility installation comprising of storm or flood water drains or retarding basins.

Under Clauses 62.01 (Uses not requiring a permit) and 62.02-1 (Buildings and works not requiring a permit) of the Port Philiip Planning Scheme, minor utility installations are exempt from the requirements of a planning permit for land use and buildings and works.

The Project does however trigger planning permit requirements under specific overlays affecting the Project Area under the Port Phillip Planning Scheme, including to:

- Remove and plant any vegetation within the Design and Development Overlay – Schedule 10 (DDO10) – *Clause 43.02-2*

The complete assessment of the planning controls under the Port Phillip Planning Scheme is provided at Appendix D.

4.1 Design and Development Overlay – Schedule 10

Under the Port Phillip Planning Scheme, the DDO10 aims to:

- Co-ordinate development in the Port Phillip Bay coastal area,
- Preserve the existing beaches and natural beauty of the Port Phillip Bay coastal area and to prevent deterioration of the foreshore, and
- Improve facilities in the Port Phillip Bay coastal area to enable the full enjoyment of the area by the public.

The DDO10 intersects with the Project Area along the coastal foreshore area bounded by Head Street and Ormond Esplanade (refer to Figure 8).

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Figure 8: DDO10 and the Project Area

A planning permit is triggered to remove and plant vegetation within the DDO10 under the Port Phillip Planning Scheme.

4.1.1 Proposed vegetation impacts within the DDO10

As identified in Figure 8 (and Appendix E), vegetation comprising 37 individual trees and three (3) tree groups as well as understory vegetation, are required to be removed within the DDO10 to facilitate the Project.

The remaining 88 trees within the DDO10 will be retained, with 52 of these now sitting outside the defined Project Area which was reduced to minimise impacts, and a further 36, which sit within or close to the Project Area but can be retained through the implementation of mitigation measures (e.g. installation of Tree Protection Zone (TPZ) fencing).

Details of the tress to be impacted within the DDO10 are provided in Table 3 and expanded on in the Tree Impact Assessment Report and Addendum to Tree Report at Appendix F.

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Table 3: Trees proposed for removal within DDO10

Tree ID	Common Name	Origin	DBH (cm)	Height x width (m)	Heath	Structure	Arborist rating	ULE (years)	Discussion
17	Norfolk Island Pine	AusC	33	8 x 6	Fair	Fair to Poor	Mod.C	11 to 20	The Structural Root Zones (SRZ) of trees #17 and #18 will be impacted by the works as they are located in an area required for access during construction. Due to the constrained works area, impacts to these trees cannot be avoided.
23	Coast Banksia	I(p)	38 at 0.8m	7 x 6	Fair	Fair	Mod.B	21 to 40	The SRZ of tree #23 will be impacted by the works as it is located in an area required for crane placement and access during construction. Due to the constrained works area, impacts to this tree cannot be avoided.
41	Coast Banksia	I(p)	36, 27, 26	8 x 7	Fair	Fair	Mod.B	21 to 40	Tree #41 will be impacted by the works as it is located in an area required for crane placement, laydown and access during construction. Due to the constrained works area, impacts to this tree cannot be avoided.
67	Silky oak	AusN	28	8 x 7	Fair to Poor	Fair	Mod.B	>40	Trees #67 to #72 will be impacted by the works as they are located within the Head Street work zone, which requires clearing to facilitate construction of the new drain.
68	Red-flowering gum	AusN	24	6 x 5	Fair	Fair	Mod.B	>40	
69	Golden Monterey Cyprus	Exotic	60, 51, 44, 37	13 x 13	Fair	Fair to Poor	Mod.B	21 to 40	
70	Prickly-leaved Paperbark	AusN	44, 30, 22	8 x 10	Fair	Fair	Mod.B	21 to 40	
71	Prickly-leaved Paperbark	AusN	41, 38	7 x 9	Fair	Fair	Mod.B	21 to 40	

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Tree ID	Common Name	Origin	DBH (cm)	Height x width (m)	Heath	Structure	Arbo ist ratin(	ULE (years)	Discussion
72	Prickly-leaved Paperbark	AusN	38, 34, 33	9 x 11	Fair	Fair	Mod.B	21 to 40	
81	Karaka	Exotic	20, 18, 16, 16, 12	5 x 6	Fair to Poor	Fair to Poor	Mod.C	11 to 20	Trees #81 to #90 will be impacted by the works as they are located within the Head Street work zone, which requires clearing to facilitate construction of the new drain.
82	Norfolk Island Hibiscus	AusN	37	9 x 8	Fair	Fair	Mod.B	21 to 40	
83	Common Fig	Exotic	10, 8, 8	3 x 4	Fair to Poor	Fair to Poor	Low	1 to 5	
84	Cabbage Tree	Exotic	20, 20 (est.)	4 x 3	Fair to Poor	Poor	Low	1 to 5	
85	Norfolk Island Pine	AusC	44	16 x 8	Fair to Poor	Fair	Mod.C	21 to 40	
86	Chinese Elm	Exotic	40, 27	11 x 16	Fair	Fair	Mod.A	21 to 40	
87	Norfolk Island Hibiscus	AusN	47, 39, 27	11 x 16	Fair	Fair	Mod.B	11 to 20	
88	Karaka	Exotic	15, 15, 14, 13, (multi-stem)	6 x 6	Fair	Fair	Mod.C	11 to 20	
89	Holly Oak	Exotic	24, 17 (est.)	5 x 7	Fair	Fair to Poor	Mod.B	11 to 20	

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Tree ID	Common Name	Origin	DBH (cm)	Height x width (m)	Heath	Structure	Arborist rating	ULE (years)	Discussion
90	Yellow-wood	Exotic	40	11 x 8	Fair	Fair	Mod.B	11 to 20	
96	Illawarra Flame Tree	AusN	27	5 x 6	Fair	Fair	Mod.B	> 40	Tree #96 will be impacted by the works as they are located within the Head Street work zone, which requires clearing to facilitate construction of the new drain.
111	Norfolk Island Hibiscus	AusN	23 (est.)	9 x 7	Fair	Fair	Mod.B	21 to 40	Trees #111 to #113 will be impacted by the works as they are located within the Head Street work zone, which requires clearing to facilitate construction of the new drain.
112	Norfolk Island Hibiscus	AusN	35, 16 (est.)	10 x 9	Fair	Fair	Mod.B	21 to 40	
113	Manna Ash	Exotic	50	12 x 11	Fair	Fair	Mod.B	11 to 20	
125	Norfolk Island Hibiscus	AusN	67	10 x 10	Good	Fair	Mod.A	21 to 40	Trees #125 and #126 are located within the works area, and will be impacted by open trenching to the south. Impacts to these trees cannot be avoided.
128	Norfolk Island Hibiscus	AusN	42, 32, 17	10 x 7	Good	Fair to Poor	Mod.B	21 to 40	
438	Drooping She-oak	VicN	11	4 x 4	Fair	Fair to Poor	Mod.C	11 to 20	Trees #438 to #444 are located in the proposed access point to the construction site along Ormond Esplanade. Whole impacts to these trees cannot be avoided, the proposed access point has been located to minimise impacts to trees along Ormond Esplanade.
439	Norfolk Island Hibiscus	AusN	13, 10, 7, 7	6 x 5	Fair	Fair to Poor	Mod.C	11 to 20	
440	Drooping She-oak	VicN	36	7 x 8	Fair	Fair to Poor	Mod.C	11 to 20	
441	Norfolk Island Hibiscus	AusN	22, 22, 9	7 x 7	Fair	Fair to Poor	Mod.C	11 to 20	

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Tree ID	Common Name	Origin	DBH (cm)	Height x width (m)	Heath	Structure	Arborist rating	ULE (years)	Comment
442	Drooping She-oak	VicN	20	5 x 6	Fair to Poor	Fair to Poor	Mod.C	6 to 10	
443	Drooping She-oak	VicN	5	3 x 1	Fair	Fair to Poor	Low	11 to 20	
444	Norfolk Island Hibiscus	AusN	47	7 x 7	Fair	Fair	Mod. B	21 to 40	
451	Variegated Coprosma	Exotic	13	4 x 4	Fair	Fair to Poor	Mod.C	11 to 20	Trees #451 to #455, and tree groups G4, G5 and G6 will be impacted by the works as they are located within the Head Street work zone, which requires clearing to facilitate construction of the new drain.
452	Spindle Tree	Exotic	6, 6, 6, 5, 4	2 x 5	Fair	Fair	Mod.C	11 to 20	
453	Japanese Privet	Exotic	3, 2, 2, 2, 2	3 x 3	Fair	Fair to Poor	Mod.C	11 to 20	
454	Coast Banksia	VicN	9	4 x 2	Fair	Fair	Mod.C	21 to 40	
455	Holly Oak	Exotic	31	7 x 6	Fair	Fair	Mod. B	21 to 40	
G4	Spindle Trees, Golden Varlegated	Exotic	10 (est.)	2 to 3 x 3 to 5	Fair	Fair	Mod.C	11 to 20	
G5	Cape Honeysuckle	Exotic	9 (multi-stem)	2 to 3 x 5 to 8	Fair	Fair	Low	6 to 10	
G6	Crape Myrtle	Exotic	12 (multi-stem)	4 x 5	Fair	Fair	Mod.B	21 to 40	

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Tree ID	Common Name	Origin	DBH (cm)	Height x width (m)	Heath	Structure	Arborist rating	ULE (years)	Discussion

NOTE: AusC = Australian conifer, AusN = Australian native I(p), = Indigenous (planted), VicN = Victorian native, DBH = Diameter at Breast Height, ULE = Useful Life Expectancy

4.1.2 Proposed planting within the DDO10

The Project Area including the land covered by the DDO10, will be rehabilitated and landscaped at the conclusion of the proposed works.

A Landscape Specification document (Appendix G) has been prepared to support the tender process, and outlines the tender, construction and maintenance instructions for the Contractor to undertake landscape works. A high level reinstatement plan is included in the Landscape Specification document, and a detailed Landscape Plan will be prepared as a conditional requirement to this planning permit. The Landscape Plan will align with the Elwood Foreshore Precinct Master Plan focusing on increasing indigenous and coastal vegetation in the area, including replacing trees impacted by the project with advanced specimens.

Additionally, an agreement is progressing between Melbourne Water and City of Port Phillip whereby Melbourne Water will provide resources to facilitate a reinstatement program managed by Council in accordance with the Elwood Foreshore Precinct Master Plan.

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5 Planning analysis

5.1 State and local planning policy

In addition to the clauses that trigger a planning permit, the application has considered the relevant sections of the Port Phillip Planning Scheme's planning policy framework. This framework was reviewed against the proposed works and Project location to identify the policies relevant to the Project. It is considered that the proposed works support the objectives of the state and local planning policy framework, as outlined in Table 4.

Table 4: Planning policy assessment

Clause	Objective	Response
Environment and landscape values		
Clause 12.01-1S Protection of biodiversity	To protect and enhance Victoria's biodiversity.	The Project has identified environmentally sensitive areas through the undertaking of several specialist studies including a marine ecosystem assessment (field study), biodiversity assessment (desktop and field study) and tree impact assessment. The Project has considered the biodiversity values of the local environment identified through these assessments and has sought to avoid impacts to vegetation and fauna habitat. The Project Team has embedded the mitigation measures proposed by the specialist studies into design considerations to reduce the impacts to ecologically sensitive areas, where possible. An application for works on marine and coastal Crown land (i.e., MACA consent) will be submitted and the Project will fulfil all conditions under the approval to ensure any potential impacts to the marine and coastal environment are avoided or minimised. Works will be delivered in accordance with a project-specific CEMP to define the environmental management controls during construction. This will include implementing Tree Protection Zones, no-go zones around ecologically sensitive areas of the site and sediment controls to prevent sediment-laden water leaving the site and entering local waterways.
Clause 12.01-2S Native vegetation management	To ensure that there is no net loss to biodiversity as a result of the removal, destruction or lopping of native vegetation.	
Clause 12.02-1S Marine and coastal environment	To protect and enhance the marine and coastal environment.	
Clause 12.02-2S Marine and coastal environment	To ensure the use and development of marine and coastal Crown land is ecologically sustainable, minimises impacts on cultural and environmental values, and improves public benefit for current and future generations.	
Clause 12.05-1S Significant environments and landscapes	To protect and conserve environmentally sensitive areas.	
Clause 12.05-2S Significant environments and landscapes	To protect and enhance significant landscapes and open spaces that contribute to character, identity and sustainable environments.	
Environmental risks and amenity		

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Clause	Objective	Response
Clause 13.01-1S Climate change impacts	To minimise the impacts of natural hazards and adapt to the impacts of climate change through risk-based planning.	The Elster Creek catchment is prone to widespread flooding, which has been consequential to the Elwood locality and surrounding suburbs. Given the increased prevalence of heavy rain and storm events due to climate change, this Project is an adaptation approach that will reduce the risk of flooding into the future, with an enhanced stormwater drainage system and increased capacity to divert stormwater during high rainfall, storms or floods.
13.01-2S Climate change impacts	To plan for and manage coastal hazard risk and climate change impacts.	
13.03-1S Floodplains	To assist the protection of: • Life, property and community infrastructure from flood hazard, including coastal inundation, riverine and overland flows. • Floodplain areas of environmental significance or of importance to river, wetland or coastal health.	
13.04-1S Soil degradation	To ensure that contaminated and potentially contaminated land is used and developed safely.	The Project's CEMP will include controls to manage contaminated land (if soil investigations indicate contaminated land is likely to occur), an unexpected finds procedure for potentially contaminated land or acid sulfate soils, noise controls, air quality controls in accordance with EPA construction guidelines and the General Environmental Duty. Measures to keep the community safe and informed of the Project during construction will also be contained within the CEMP.
13.05-1S Noise	To assist the management of noise effects on sensitive land uses.	
13.06-1S Air quality	To assist the protection and improvement of air quality.	
13.07-1S Amenity, human health and safety	To protect community amenity, human health and safety while facilitating appropriate commercial, industrial, infrastructure or other uses with potential adverse off-site impacts.	
Natural resource management		
14.02-2S Water	To protect water quality.	The Project's CEMP will include management controls for erosion, sediment and surface water runoff impacts associated with the Project, to prevent the degradation of local waterways and waterbodies.
Built environment and heritage		

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Clause	Objective	Response
15.03-2S Heritage	To ensure the protection and conservation of places of Aboriginal cultural heritage significance.	A Preliminary Aboriginal Heritage Test (PAHT) has been prepared and approved for the Project Area, which confirms the presence of significant ground disturbance and an exemption from the preparation of a Cultural Heritage Management Plan (CHMP) under the Aboriginal Heritage Act 2006. The Project's CEMP will define an unexpected finds procedure to be followed in the event of discovering an artefact.

5.2 Design and Development Overlay – Schedule 10

Section 2.0 of the DDO10 states that a permit is required to remove or plant any vegetation.

The works have been iteratively designed and sited to protect vegetation within the DDO10, with a focus on high value trees. During the investigation phase of the Project, a Tree Impact Assessment Report and Addendum to Tree Report (refer to Appendix F) was prepared for the Project, which found that there were 100 trees, and three (3) tree groups present within the portion of the project's investigation area which intersects with the DDO10.

As outlined in Section 4.1.1, vegetation comprising 37 individual trees and three (3) tree groups as well as understory vegetation, are required to be removed within the DDO10 to facilitate the Project.

The remaining 88 trees within the DDO10 will be retained, with 52 of these now sitting outside the defined Project Area which was reduced to minimise impacts, and a further 36 which sit within or close to the Project Area but can be retained through the implementation of mitigation measures.

Mitigation measures to be implemented to enable retention of these 35 trees are outlined in Table 5.

Table 5: Trees within the DDO10 to be retained through implementation of mitigation measures

Tree ID	Common Name	Arb. rating	Discussion and mitigation measures to be implemented
19	Coast Banksia	Mod.B	While the Arborist Report indicates that trees #19 to #22 would be impacted by the construction footprint, they are only impacted by alignment of the existing drain and therefore do not require removal to facilitate the works. These trees will be protected through the installation of Tree Protection Zone (TPZ) fencing.
20	Coast Banksia	Mod.C	
21	Coast Banksia	Mod.B	
22	Coast Tea-tree	Mod.C	
24	Coast Banksia	Mod.B	While the Arborist Report indicates that there will be minor TPZ impact to trees #24 and #28 from the proposed crane placement, the construction team have reviewed this impact and indicated that there is sufficient space south of the tree, and therefore it would not require removal to facilitate the works. These trees will be protected through the installation of TPZ fencing.
28	Coast Banksia	Mod.C	

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Tree ID	Common Name	Arb. rating	Discussion and mitigation measures to be implemented
52	Norfolk Island Hibiscus	Mod.A	While the Arborist Report indicates that the TPZ of Tree #52 and the SRZ of tree #54 would be impacted by the construction footprint, they are only impacted by alignment of the existing drain and therefore do not require removal to facilitate the works. These trees will be protected through the installation of TPZ fencing.
54	Cape Chestnut	Mod.B	
55	Port Jackson Fig	High	Impacts from TPZ incursion to the north (works associated with the old drain) and for the new culvert, to the south will be mitigated to prevent unsustainable levels of TPZ disturbance. Tree protection advice received from the project Arborist (Appendix H) to protect tree #55 include: • Avoidance of works associated with the existing drain within the TPZ of this tree. • Modification of works associated with the new culvert to reduce the level of excavation within the TPZ. • Adoption of a temporary retaining system in the area to reduce the battering requirement, thereby diminishing the TPZ impact level (edge of works approximately 11m from tree). • Arborist supervision If works come to less than 9m from the tree, so that roots in the area can be appropriately managed and documented. • Establishment of steel mesh fencing around the tree as per tree protection advice provided by the Project Arborist.
56	Norfolk Island Hibiscus	Mod.A	While the Arborist Report indicates the SRZ of tree #56 will be impacted by the works as it is located in an area required for construction of the new culvert, the construction team have reviewed this impact and indicated that removal can be avoided through the installation of TPZ fencing. Some pruning of Tree #56 may be required.
64	Southern Mahogany	Mod. A	Impacts from TPZ incursion associated with the works zone will be mitigated to prevent unsustainable levels of TPZ disturbance by excluding this area from work activities. Tree protection advice received from the project Arborist (Appendix H to protect tree #64 includes establishment of steel mesh fencing around the tree as outlined in Appendix H. • TPZ incursion is from the 'works zone', which intercepts a major portion of the tree's TPZ. Melbourne Water has indicated that this area can be excluded from works activities with steel mesh fencing. • Steel mesh fencing must be established around the tree as per tree protection advice provided by the Project Arborist.
65	Prickly-leaved Paperbark	Mod.B	While the Arborist Report indicates trees #65 and #66 would be impacted by the construction footprint, the construction team have reviewed this impact and confirmed that these trees are outside of the traffic zone and can be retained. These trees will be protected through the installation of TPZ fencing.
66	Prickly-leaved Paperbark	Mod.B	
74	Moreton Bay Fig	Mod.C	

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Tree ID	Common Name	Arb. rating	Discussion and mitigation measures to be implemented
75	Port Jackson Pine	Mod.C	While the Arborist Report indicates that trees #74 to #78 would be impacted by the construction footprint, they are only impacted by alignment of the existing drain and therefore do not require removal to facilitate the works. These trees will be protected through the installation of TPZ fencing.
76	Port Jackson Pine	Mod.C	
77	Port Jackson Pine	Mod.C	
78	Norfolk Island Hibiscus	Mod.A	
80	Cotoneaster	Low	While the Arborist Report indicates that the SRZ of tree #80 will be impacted by the construction footprint, the construction team have reviewed the impact, and the works in this area have been designed to avoid open trenching and therefore this tree can be retained. This tree will be protected through the installation of TPZ fencing.
91	Holly Oak	Low	While the Arborist Report indicates that trees #91 to #95 would be impacted by the construction footprint, the construction team have reviewed this impact and indicated that removal can be avoided through the installation of TPZ fencing.
92	Sweet Pittosporum	Low	
93	Holly Oak	Mod.B	
95	Prickly-leaved Paperbark	Mod.B	
94	Port Jackson Fig	High	Impacts from TPZ incursion associated with the works zone will be mitigated to prevent unsustainable levels of TPZ disturbance. Tree protection advice received from the project Arborist (Appendix H) to protect tree #94 include: • Establishment of steel protection fencing around the canopy dripline as per tree protection advice provided by the Project Arborist. • The project Arborist and manager having a meeting prior to commencement of works to discuss traffic requirements within the TPZ, as the fencing may need to be modified to enable vehicle movements. Additionally, designated vehicle paths can be determined onsite between the arborist and site manager. • Installation of ground protection system to protect tree roots from compaction for any paths passing through the TPZ. Ground protection is to comprise a base layer of geofabric under aggregate (40mm coarse screenings to a depth of 150mm) and a covering layer to distribute point loading (e.g. bog mats, 7mm screenings on the surface to 50mm depth, steel plates, rumble boards etc.). A geogrid system may be required to prevent aggregate from spreading under heavy vehicle loads. • On site discussion between project Arborist and manager in relation to canopy pruning requirements. In general pruning should be limited to <10% of the total live crown and must be undertaken by a suitably qualified climbing arborist prior to commencement of works. Pruning must be in accordance with *AS4373 – Pruning of Amenity trees.*

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Tree ID	Common Name	Arb. rating	Discussion and mitigation measures to be implemented
97	Prickly-leaved Paperbark	Mod.B	While the Arborist Report indicates that tree #97 would be impacted by the construction footprint, the construction team have reviewed this impact and indicated that removal can be avoided through the installation of TPZ fencing.
98	Sweet Pittosporum	Low	While the Arborist Report indicates that the SRZ of tree #98 will be impacted by the construction footprint, the construction team reviewed this impact and indicated that removal can be avoided through the installation of TPZ fencing.
100	Norfolk Island Hibiscus	Mod.A	While the Arborist Report indicates that there will be minor impact to the TPZ of tree #100 from the construction footprint, the construction team reviewed this impact and indicated that removal can be avoided through the installation of TPZ fencing.
103	Shining Privet	Low	While the Arborist Report indicates that there will be minor impact to the TPZs of trees #103, #104, #105, #107 and #109 from the construction footprint, the construction team reviewed this impact and indicated that these are trees are outside the traffic zone, and will not require removal. These trees will be protected through the installation of TPZ fencing.
104	Norfolk Island Hibiscus	Mod.B	
105	Norfolk Island Hibiscus	Mod.B	
107	Norfolk Island Hibiscus	Mod.B	
109	Norfolk Island Hibiscus	Mod.B	
114	Drooping She-oak	Mod.B	While the Arborist Report indicates that there will be minor impact to the TPZs of trees #114 to #121 from the construction footprint, the construction team reviewed this impact and indicated that these are trees are outside the traffic zone, and will not require removal. These trees will be protected through the installation of TPZ fencing.
115	Coast Tea-tree	Low	
116	Shining Privet	Low	
117	Norfolk Island Hibiscus	Mod.B	
118	Sweet Pittosporum	Low	
119	Cotoneaster	Low	
120	Sweet Pittosporum	Low	
121	Norfolk Island Hibiscus	Mod.A	

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Tree ID	Common Name	Arb. rating	Discussion and mitigation measures to be implemented
446	Norfolk Island Hibiscus	Mod. B	While the Arborist Report indicates that there will be a major impact to the TPZ of tree #446, this tree is located outside the project boundary, and can be protected through the installation of TPZ fencing.

Further to avoiding and minimise impacts to vegetation within the DDO10, the Project has considered each of the decision guidelines listed at Section 6.0 of the DDO10, with a response provided to each guideline at Table 6.

Table 6: DDO10 application requirements

Decision Guideline	Response
The proposed development will not adversely impact upon natural ecosystems, coastal processes, and the scenic landscape of foreshore areas.	Following completion of the Project, the impacted area will be rehabilitated in collaboration with the City of Port Phillip to ensure the scenic landscape is not impacted, Additionally, while this application only relates to vegetation removal and planting, the wider Project has undertaken the following assessments: • An assessment of potential construction impacts to coastal processes which were concluded to be 'low'. • A marine assessment that outlined mitigation measures that must be included in the CEMP to mitigate impacts on the marine environment. These measures included sediment control, litter control and spill prevention. It is noted that a MACA consent application will be submitted concurrently to the planning permit application, with a copy provided to both Council and DEECA. The MACA consent application discusses these assessments in greater detail.
The risk of pollution is minimised through the establishment of performance standards and monitoring regimes.	The Project will prepare and implement a CEMP that includes mitigation measures relating to spill prevention and litter control during construction. Management controls will include: • Provision of suitable and sufficient receptacles at work areas to facilitate correct segregation of waste. • All receptacles to be enclosed with a lid, labelled and used correctly to avoid contamination. • All wastes to be classified, stored, tracked, transported, and treated in accordance with regulatory requirements, including the use of licensed transporters and treatment facilities. It is noted that a MACA consent application will be submitted concurrently to the planning permit application, with a copy provided to both Council and DEECA. The MACA consent application includes a draft environmental risk assessment, which outlines the above management controls in greater detail.
The location, bulk and external appearance of proposed buildings or works is in	Not applicable, as this application only relates to vegetation removal and planting. However, it is noted all works associated with the project which are located within the City of Port Phillip will be underground, and therefore there will be no permanent visual impact from the proposed works.

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Decision Guideline	Response
keeping the character and appearance of the foreshore.	
The natural beauty and future use and enjoyment of Port Phillip Bay and the foreshore by the public is enhanced.	While the proposed works will result in the removal of vegetation, the Project Area including the land covered by the DDO10, will be rehabilitated and landscaped at the conclusion of the proposed works. A detailed Landscape Plan will be prepared as a conditional requirement to this planning permit. The Landscape Plan will align with the Elwood Foreshore Precinct Master Plan focusing on increasing indigenous and coastal vegetation in the area, including replacing trees impacted by the project with advanced specimens.
The effect of the discharge of any sewage, sullage or effluent on the environment will be minimal and such discharge will be permitted only where all practical alternatives have been exhausted.	Not applicable, as this application only relates to vegetation removal and planting required to facilitate the augmentation of the existing stormwater drain, and therefore there will be no discharge of sewage, sullage or effluent.
The construction of any building or works, or planting or removal of vegetation will not cause any deterioration of the Port Phillip Coastal Area by erosion or by deposits of sand or silt or any other reason.	The works have been iteratively designed and sited to minimise the area of impact and reduce the amount of vegetation impacted within the DDO10 to the minimum extent necessary to facilitate the works. A CEMP will be developed and implemented by the Project. This will include management controls for erosion, sediment and surface water runoff impacts associated with the Project. Following completion of the works the area will be reinstated and replanted to support ongoing soil stability.
The proposed development is generally consistent with the Incorporated Document St Kilda Foreshore Urban Design Framework (2002).	The Project Area is not within the Study Area of the Incorporated Document St Kilda Foreshore Urban Design Framework (2002), however reinstatement of the Project Area will be consistent with the Elwood Foreshore Precinct Master Plan.

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6 Construction management

Environmental and approvals management throughout construction of the Project will be governed by a project-specific CEMP to support compliance with environmental regulatory requirements. The CEMP will outline the construction methodology in further detail and define construction and environmental management controls.

The CEMP will be a 'live' document for the duration of construction, assessing the risk and likelihood of potential construction related hazards, such as dust, erosion and sediment, noise, flora and fauna, runoff and spills. Environmental controls will be implemented to reduce the risk of harm to human health and the environment.

Prior to construction, temporary environmental controls will be installed in accordance with the CEMP including tree protection, sediment controls and identifying no-go zones for sensitive areas of the Site. All contractors engaged in construction of the Project will be made aware of the ecologically sensitive areas to reduce the likelihood of disturbance and unauthorised incursions into protected areas. It will be a requirement in the CEMP to ensure a consultant arborist is on-site to supervise any excavation works where TPZ encroachment is anticipated.

Protection of marine ecological values will be a focus area of the CEMP, to ensure there are no offsite impacts in Port Philip Bay during demolition of the Elwood Pier and during construction of the augmented drainage assets. Environmental controls will aim to prevent spills, sediment release and the introduction of marine pests into the coastal environment.

The CEMP will define tree protection measures which have been determined by a qualified arborist during the Tree Impact Assessment and define designated access roads to reduce impacts upon existing vegetation. The construction team will include a dedicated construction project manager who will be available to discuss community concerns and implement response measures where required.

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7 Community engagement

Melbourne Water has actively engaged with community, local residents, local businesses and key stakeholders to identify areas and values of interest and respond to community questions and concerns.

7.1 Community engagement objectives

Communications and engagement objectives for the Project include:

- Build effective relationships with stakeholders to ensure the project is delivered safely, efficiently and with minimal impacts to residents, businesses, community groups, agencies and organisations.
- Understand stakeholder and community values by providing opportunities for feedback and show how feedback has influenced the project.
- Educate the community about the important function of the drain and why the duplication works are needed.
- Keep key stakeholders and the community informed about the project works, potential impacts and mitigation measures.
- Demonstrate Melbourne Water's customer-focused approach.

7.2 Community engagement to date

Key community engagement activities to date include:

- A range of community pop-ups including a presence at the Elwood Farmer's Market, and pop-up marquee presence at Elwood Park, Elsternwick Park and Elwood Pier. During these community pop-ups we heard that overall, communities in Elwood and Brighton strongly welcome the project and are supportive of its long-term benefits, especially from those who have experienced flooding to their properties. The most frequently topics of conversation were about:
  - How the project works
  - Managing litter
  - Whether water quality or quantity will be impacted by this project.

  As a result of this feedback, Melbourne Water has established a collaborative partnership with Councils in the Elster Creek catchment on a whole-of-catchment analysis and action plan for litter. This will look at where litter is coming from (including mapping major generation sources and accumulation hotspots), how it's transported, and associated impacts to our waterways and identifying the most effective solutions.

  During the community pop-up event at the Elwood Pier there was some interest in the pier widening as part of this project, but community were supportive of the widening and pleased to the hear the heritage look will be retained.
- Targeted meetings with local sporting clubs, including the Elwood Croquet Club
- Targeted meetings with local community members
- Door knocking local residents across the broader project area
- Meetings with local residents
- Meetings with local businesses including the Bayside Gardenworld Nursery, which will be directly impacted by the project
- Various community bulletins introducing the project and inviting participation by promoting upcoming community pop-ups and the project's Let's Talk page
- Project control group meetings, and monthly working group meetings with representatives from both City of Port Phillip Council and Bayside Council
- Councillor briefings with both City of Port Phillip Council and Bayside Council
- MP briefings

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- Developed interagency communications and engagement plan between Melbourne Water, City of Port Phillip Council, and Bayside Council to align on key messages across Council masterplans and Melbourne Water's project, so all parties are equipped to respond to community questions about works in the broader area.
- Developed online engagement platform – Let's Talk page where people can learn more about the project and anticipated impacts, ask the project team a question and understand how each aspect of the project design works in the interactive project map.
- Established dedicated project phone number and email address where community members can ask questions and learn more about the project directly from the project team.

7.3 Upcoming community engagement

Upcoming community engagement activities include:

- In person and online meetings with local sporting clubs using the Elwood Park sporting ovals and pavilion
- In person meetings with the Elwood Croquet Club
- Meetings with local clubs using the foreshore area
- Online project information sessions
- Development of project video explaining purpose of the project, how it works and project benefits
- In-person Council meetings to brief newly elected Councillors
- Community pop-up information sessions
- Door knocking local residents across the broader project area
- Project newsletters and community bulletins.

Melbourne Water will continue to work closely with community, local residents, local businesses and key stakeholders to proactively provide advanced notice of any impacts or disruptions. Melbourne Water will continue to identify areas of interest and respond to questions and concerns at all stages of the project.

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8 Summary

The proposal to grant a planning permit to facilitate the construction of the Project is considered consistent with the purpose and intent of the policies and requirements contained within the Port Phillip Planning Scheme.

The Project is an essential infrastructure project and is required to reduce the impact of flooding downstream of Elsternwick Park.

The works have been designed and sited to protect the character and environmental values of the Elwood Foreshore. Where possible the Project has sought to avoid impacts to ecological and heritage values and where not possible, appropriate mitigations will be implemented to minimise impact under the required regulatory approval regimes.

We have determined that the Project is appropriate and has demonstrated due regard to all of the relevant planning considerations. We therefore request that a permit be granted in respect of the associated application.

City of Port Phillip
Advertised Document
Planning Application No. PDPL/00673/2024
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Appendix A: Approved Construction Drawings

City of Port Phillip
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Planning Application No. PDPL/00673/2024
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ELWOOD DIVERSION DRAIN



LOCALITY PLAN
N.T.S.

City of Port Phillip
Advertised Document
Planning Application No. PDPL/00673/2024
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REV	DESCRIPTION	COMPANY	PROJECT OR WO NUMBER	DRAWN	ENG. CHECK	PR. MAN. APP'D	DATE
0	ISSUED FOR TENDER	W4G	D10134	DMcA	KK	MC	16/10/24

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Melbourne Water
D10134 - ELWOOD DIVERSION DRAIN

DRAFTER	DESIGNER	PROJECT MANAGER APPROVAL	CLIENT REP. APPROVAL
S.SERGIENKO	M. BUCKLEY	M. CALDECOTT	
DRAFTING CHECK	ENGINEERING REVIEW		
D.McAULIFFE	K. KUHANESAN		

TITLE
ELWOOD DIVERSION DRAIN
CIVIL WORKS
LOCALITY PLAN

PROJECT DATUM	Original Size	MELBOURNE WATER CORPORATION	
GDA 1994 MGA Zone 55	A1	C 4925/05/280	0
SCALE N.T.S.		CODE MWC DRAWING NUMBER	REV

Cad File:O:\G&N\CAD\Projects\MEG250\21\Drawings\Civil\4925_05_280.dwg
16 Oct, 2024 - 3:57pm
Last Edited: KI55626

Document Set ID: 8588168
Version: 1, Version Date: 08/01/2025

DRAWING LIST

DRAWING TITLE		DRAWING NUMBER
CIVIL WORKS	LOCALITY PLAN	4925/05/280
CIVIL WORKS	DRAWING LIST	4925/05/281
CIVIL WORKS	GENERAL NOTES AND LEGEND	4925/05/282
CULVERT - GENERAL ARRANGEMENT	KEY PLAN	4925/05/290
CULVERT - GENERAL ARRANGEMENT	PLAN - SHEET 1 OF 5	4925/05/291
CULVERT - GENERAL ARRANGEMENT	PLAN - SHEET 2 OF 5	4925/05/292
CULVERT - GENERAL ARRANGEMENT	PLAN - SHEET 3 OF 5	4925/05/293
CULVERT - GENERAL ARRANGEMENT	PLAN - SHEET 4 OF 5	4925/05/294
CULVERT - GENERAL ARRANGEMENT	PLAN - SHEET 5 OF 5	4925/05/295
CULVERT - GENERAL ARRANGEMENT	LONGITUDINAL SECTION - SHEET 1 OF 5	4925/05/300
CULVERT - GENERAL ARRANGEMENT	LONGITUDINAL SECTION - SHEET 2 OF 5	4925/05/301
CULVERT - GENERAL ARRANGEMENT	LONGITUDINAL SECTION - SHEET 3 OF 5	4925/05/302
CULVERT - GENERAL ARRANGEMENT	LONGITUDINAL SECTION - SHEET 4 OF 5	4925/05/303
CULVERT - GENERAL ARRANGEMENT	LONGITUDINAL SECTION - SHEET 5 OF 5	4925/05/304
ELWOOD PIER	DETAILS	4925/05/306
CHAMBER AT CH 73.250	DETAILS	4925/05/310
CHAMBER AT CH 150.000	DETAILS	4925/05/312
CHAMBER AT CH 406.032	DETAILS	4925/05/314
CHAMBER AT CH 465.000 AND 500.059	DETAILS	4925/05/316
CHAMBER AT CH 537.807	DETAILS	4925/05/318
INLET CHAMBER	DETAILS	4925/05/320
CHAMBER AT CH 230.000	DETAILS	4925/05/322

DRAWING LIST

DRAWING TITLE		DRAWING NUMBER
HEAD STREET REPROFILING	PLAN	4925/05/330
HEAD STREET REPROFILING	LONGITUDINAL SECTION	4925/05/331
HEAD STREET REPROFILING	CROSS SECTIONS - SHEET 1 OF 2	4925/05/332
HEAD STREET REPROFILING	CROSS SECTIONS - SHEET 2 OF 2	4925/05/333
TYPICAL SECTIONS AND PAVEMENT	DETAILS	4925/05/335
HEAD STREET DRAINAGE	PLAN	4925/05/336
HEAD STREET DRAINAGE	LONGITUDINAL SECTION AND PIT SCHEDULE	4925/05/337
ST KILDA ROAD REINSTATEMENT	GENERAL ARRANGEMENT	4925/05/340
PAVEMENT REINSTATEMENT	DETAILS	4925/05/345
INLET PIT EARTHWORKS REINSTATEMENT	GENERAL ARRANGEMENT	4925/05/350
INLET PIT EARTHWORKS REINSTATEMENT	SECTIONS - SHEET 1 OF 2	4925/05/351
INLET PIT EARTHWORKS REINSTATEMENT	SECTIONS - SHEET 2 OF 2	4925/05/352
OUTLET DN750 DRAINAGE PIPE REINSTATEMENT	GENERAL ARRANGEMENT	4925/05/355

City of Port Phillip
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Melbourne Water
D10134 - ELWOOD DIVERSION DRAIN

DRAFTER	DESIGNER	PROJECT MANAGER APPROVAL	CLIENT REP. APPROVAL
S.SERGIENKO	M. BUCKLEY	M. CALDECOTT	
DRAFTING CHECK	ENGINEERING REVIEW		
D.McAULIFFE	K. KUHANESAN		

TITLE: ELWOOD DIVERSION DRAIN
CIVIL WORKS
DRAWING LIST

PROJECT DATUM: GDA 1994 MGA Zone 55
SCALE: N.T.S.
Original Size: A1

MELBOURNE WATER CORPORATION
CODE: C | MWC DRAWING NUMBER: 4925/05/281 | REV: 0

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Last Edited: KI55626 16 Oct, 2024 - 3:58pm

Document Set ID: 8588168
Version: 1, Version Date: 08/01/2025

GENERAL NOTES:

G1. READ THESE NOTES IN CONJUNCTION WITH OTHER ENGINEERING DRAWINGS AND SPECIFICATIONS, AND WITH SUCH OTHER WRITTEN INSTRUCTIONS ISSUED. REFER TO DRAWINGS FOR SETTING OUT AND DETAIL DIMENSIONS. IN CASE OF DISCREPANCY, PRECEDENCE IS GIVEN TO DRAWINGS, THEN NOTES, THEN SPECIFICATION.

G2. DO NOT OBTAIN DIMENSIONS BY SCALING FROM DRAWINGS.

G3. UNO=UNLESS NOTED OTHERWISE, SLS=SERVICEABILITY LIMIT STATE, ULS=ULTIMATE LIMIT STATE, NSL=NATURAL SURFACE LEVEL, FSL=FINISHED SURFACE LEVEL

G4. DIMENSIONS ARE IN MILLIMETRES, LEVELS ARE IN METRES UNO, CHAINAGES ARE IN METRES UNO.

G5. DATUM FOR LEVELS IS AHD (AUSTRALIAN HEIGHT DATUM). CO-ORDINATES ARE TO MGA94, ZONE 55 (MAP GRID OF AUSTRALIA).

G6. SURVEY AND SETTING OUT UNDERTAKEN BY A REGISTERED SURVEYOR.

G7. CARE WAS TAKEN AROUND HAZARDS ASSOCIATED WITH BURIED, CONCEALED OR OVERHEAD SERVICES. SERVICE PROVING WAS UNDERTAKEN TO ESTABLISH LOCATION OF AND PROTECT EXISTING SERVICES AT SITE. SERVICES SHOWN ON DRAWINGS ARE IN APPROXIMATE LOCATIONS ONLY. SERVICES OTHER THAN THOSE SHOWN MAY EXIST ON SITE.

G8. WORKMANSHIP AND MATERIALS COMPLY WITH REQUIREMENTS OF AUSTRALIAN STANDARDS, BUILDING CODE OF AUSTRALIA (BCA) AND BY-LAWS AND ORDINANCES OF RELEVANT BUILDING AUTHORITIES. ALL STANDARDS REFERRED TO ARE THOSE CURRENT (AS AMENDED) AT COMMENCEMENT OF CONTRACT.

G9. DRAWINGS DO NOT SHOW DETAILS OF ALL FIXTURES, INSERTS, SLEEVES, RECESSES OR OPENINGS etc REQUIRED.

G10. CONTRACTOR REINSTATED ASSETS SUCH AS K&C, PITS, PIPES, ROADS, NATURE STRIPS, PARKS, ETC. TO EXISTING CONDITION (PRE CONSTRUCTION) TO THE SATISFACTION OF THE RELEVANT COUNCIL/RESPONSIBLE AUTHORITY.

G11. TESTING PERFORMED BY AN INDEPENDENT NATA (NATIONAL ASSOCIATION OF TESTING AUTHORITIES) ACCREDITED AUTHORITY, TEST REPORTS PROVIDED TO MELBOURNE WATER.

G12. METALS WERE SEPARATED FROM INCOMPATIBLE MATERIALS (eg STAINLESS STEEL, GALVANIZED STEEL, UNGALVANIZED STEEL AND TREATED TIMBER etc) BY CONCEALED LAYERS OF SUITABLE INERT MATERIALS OF SUITABLE THICKNESS. PLASTIC SLEEVES AND WASHERS WERE USED FOR BOLTS.

G13. EXTERNAL ELEMENTS ARE THOSE EXPOSED TO WEATHER, RAIN AND WATER PENETRATION IN FINAL WORKS.

DESIGN SURVEY

SN1. THE FOLLOWING NOTES AND CONTROL INFORMATION HAVE BEEN REPLICATED FROM VERIS DRG No. 302500-014.

SN2. LEVELS MAY EXIST THAT HAVE BEEN TURNED OFF FOR PLOTTING CLARITY.

SN3. THE MAPBASE SHOWN HAS NOT BEEN VERIFIED BY FIELD SURVEY.

SN4. DATE OF SURVEY: 11th OCTOBER 2021.

SN5. CO-ORDINATE DATUM - MGA94 ZONE 55 VIDE GNSS OBSERVATIONS AND CONFIRMED TO MOORABBIN PM462.

SN6. LEVEL DATUM - AHD BASED ON MOORABBIN PM462(RL2.037). TBM'S SHOWN HEREON HAVE BEEN DERIVED FROM GPS SURVEY.

SERVICES LEVEL AND SERVICES NOTES:

SL1. SERVICE PROVING PERFORMED BY QEST IN FEBRUARY 2017. POTHOLE LEVES DOCUMENTED IN TAYLORS FINAL SURVEY. REFER TO QEST NDD SITE CARDS FOR DETAILS.

SL2. SUPPORT PIPE SPANS OTHERWISE SUSPENDED.

SL3. SAND BAGGING ABOVE EXPOSED GAS PIPES WHEN LEFT UNATTENDED OR TRAVERSING PIPES WITH SUSPENDED LOADS.

SL4. ADHERENCE TO POLICY EP-DR-2606-A1- CONDITIONS FOR WORKS NEAR GAS TRANSMISSION PIPELINES.

SL5. ADHERENCE TO BEDDING MATERIAL REQUIREMENTS WHEN BACKFILL WAS REQUIRED AS DETAILED IN MULTINET GAS ENGINEERING STANDARD EP-DD-4060 - SELECTION OF BEDDING MATERIALS FOR PIPE SYSTEMS;

- THE PIPE FIRMLY AND UNIFORMLY BEDDED AND LOCATED CLEAR FROM ROCKS AND OTHER HARD FORMATIONS, TO A LEVEL NOT LESS THAN 150mm UNDER, AROUND AND ABOVE THE TOP OF THE MAIN OR SERVICE
- BEDDING CONTAINS NO ORGANIC MATERIAL THAT WILL AFFECT BEDDING MATERIAL PERFORMANCE AND IS FREE OF MATERIALS THAT WOULD BE PHYSICALLY OR CHEMICALLY HARMFUL TO ANY PIPE COMPONENT.

DRAINAGE WORKS

GENERAL NOTES:

DW1. ALL PIPELINES CONSTRUCTED TO THE DIMENSIONS AND LEVELS SHOWN ON THE DRAWINGS.

DW2. PIPES LAID IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

DW3. PIPES LAID TRUE TO THE LINES, LEVELS AND GRADES SHOWN ON THE DRAWINGS AND WITHIN THIS CLAUSE. WHERE APPLICABLE, THE PIPELINE TOP MARK WAS UPPERMOST AND THE LIFTING HOLES SEALED PRIOR TO BACKFILLING.

DW4. PIPES LAID WITH THEIR BARRELS CONTINUOUSLY AND UNIFORMLY SUPPORTED. HOLES WERE EXCAVATED IN THE BEDDING TO PREVENT THE PIPES BEING SUPPORTED ONLY AT THE SOCKETS. THE NUMBER OF HOLES EXCAVATED ARE THE MINIMUM NECESSARY TO ACHIEVE THE CORRECT JOINT ASSEMBLY.

DW5. RC PIPES LAID ON HS2 GRANULAR BEDDING IN ACCORDANCE WITH MWC STANDARD DWG 7251/08/419.

DW6. THE FOUNDATION OF THE PIPELINE IS FREE OF ORGANIC, FOREIGN SOFT, GRANULAR OR OTHER DELETERIOUS MATERIAL. WHERE THIS MATERIAL IS ENCOUNTERED, THE MATERIAL WAS REMOVED AND REPLACED USING COHESIVE FILL

-THE ALLOWABLE BEARING CAPACITY FOR THE PIPELINE IS 70KPa.

DW7. REINSTATEMENT IN ACCORDANCE WITH THE RELEVANT STATUTORY AUTHORITY IN THIS CASE:

- VICROADS
- CITY OF PORT PHILIP
- CITY OF BAYSIDE

PIPE LAYING AND JOINTING:

DW8. NO BEDDING MATERIAL PLACED UNTIL THE PREPARED TRENCH FLOOR WAS INSPECTED.

DW9. COMPACT AND SHAPE BEDDING PROVIDED CONTINUOUS SUPPORT OF PIPES.

DW10. UNLESS OTHERWISE PERMITTED, PIPES LAYING COMMENCED AT THE OUTLET END AND PROCEEDED UPSTREAM.

DW11. FOR RUBBER RING JOINTING SYSTEMS, JOINTS WERE FORMED BY PLACING RINGS EVENLY OVER THE PIPE SPIGOT WITHOUT TWIST AND ROLLING IT INTO THE SOCKET. SPIGOTS WERE ALWAYS BE INSERTED SQUARELY INTO SOCKETS.

DW12. BACKFILL MATERIAL PLACED EVENLY AND UNIFORMLY AROUND THE PIPELINE AND COMPACTED INTO PLACE IN SUCH A MANNER AS NOT TO DISPLACE THE PIPES.

PIPE-LAYING TOLERANCES:

DW13. PIPELINES CONSTRUCTED TO THE TOLERANCES DESCRIBED BELOW, UNLESS OTHERWISE SPECIFIED ON THE DRAWINGS:

PLAN - THE DEPARTURE AT ANY POINT FROM THE POSITION INDICATED ON THE DRAWINGS DID NOT EXCEED 30 MM.

LEVEL - IF REDUCED LEVELS ARE SPECIFIED ON THE DRAWINGS, THE DRAIN DID NOT DEVIATE FROM ITS SPECIFIED LEVEL BY MORE THAN 10 mm HIGHER OR 10mm LOWER.

GRADE - THE GRADE AT ANY PART OF A DRAIN WAS NOT MORE THAN 4% FLATTER THAN THAT SPECIFIED ON THE DRAWINGS. BACKFALL AT ANY POINT IS NOT PERMITTED.

COMPACTION AND BACKFILLING:

DW15. BACKFILL AND COMPACTION IN ACCORDANCE WITH THE DWGS AND MWC STD DWG 7251/08/419.

DW16. UNLESS OTHERWISE STATED IN THE DRAWING, BACKFILL AND COMPACTION TESTING IN ACCORDANCE WITH VICROADS STD SPECIFICATION 701 - UNDERGROUND STORM WATER DRAINS. TESTING WAS AS OUTLINED IN SECTION 701.15.

DW17. TESTING CARRIED OUT BY A NATA REGISTERED TESTER IN ACCORDANCE WITH THE CURRENT VERSION OF AS 1289 OR ASTM D2922.

DW18. COMPACTION AND BACKFILLING ON ROADWAYS IN ACCORDANCE WITH THE RELEVANT STATUTORY AUTHORITY. MELBOURNE WATER STANDARDS UNLESS OTHERWISE NOTED.

EXISTING SERVICES LEGEND:

C(B)	QL-B: COMMUNICATIONS
C(D)	QL-D: COMMUNICATIONS
D(A)	QL-A: DRAINAGE
D(B)	QL-B: DRAINAGE
D(C)	QL-C: DRAINAGE
D(D)	QL-D: DRAINAGE
	QL-B: ELECTRICITY OH
E(B)	QL-B: ELECTRICITY UG
E(D)	QL-D: ELECTRICITY UG
G(B)	QL-B: GAS
G(C)	QL-C: GAS
G(D)	QL-D: GAS
S(A)	QL-A: SEWER
S(D)	QL-D: SEWER
W(B)	QL-B: WATER
W(D)	QL-D: WATER
	CONSTRUCTION BOUNDARY

City of Port Phillip
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REV	DESCRIPTION	COMPANY	PROJECT OR WO NUMBER	DRAWN	ENG. CHECK	PR. MAN. APP'D	DATE
0	ISSUED FOR TENDER	W4G	D10134	DMcA	KK	MC	16/10/24

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Melbourne Water
D10134 - ELWOOD DIVERSION DRAIN

DRAFTER	DESIGNER	PROJECT MANAGER APPROVAL	CLIENT REP. APPROVAL
S.SERGIENKO	M. BUCKLEY	M. CALDECOTT	
DRAFTING CHECK	ENGINEERING REVIEW		
D.McAULIFFE	K. KUHANESAN		

TITLE: ELWOOD DIVERSION DRAIN
CIVIL WORKS
GENERAL NOTES AND LEGEND

PROJECT DATUM	Original Size	MELBOURNE WATER CORPORATION	
GDA 1994 MGA Zone 55	A1	C	4925/05/282	0
SCALE N.T.S.		CODE	MWC DRAWING NUMBER	REV

Document Set ID: 8588168
Version: 1, Version Date: 08/01/2025

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16 Oct, 2024 - 3:58pm
Last Edited: KI55626



KEY PLAN
SCALE 1:1000

NOTES:

1. FOR ELWOOD DRAINAGE PLANS REFER DWG 4925/05/291 TO 295.
2. FOR ELWOOD DRAINAGE LONGITUDINAL SECTIONS REFER DWG 4925/05/300 TO 304.
3. FOR IN-SITU PIT DETAILS REFER DWG 4925/05/310 TO 324.
4. FOR ST KILDA ROAD REISTATEMENT REFER DWG 4925/05/340.
5. FOR HEAD STREET REINSTATEMENT REFER DWG 4925/05/330.
6. TO BE READ IN CONJUNCTION WITH LANDSCAPE DRAWINGS REFER DWG 4925/05/01 FOR DETAILS OF LANDSCAPE DRAWINGS.
7. TO BE READ IN CONJUNCTION WITH STRUCTURAL DRAWINGS REFER DWG 4925/05/100 FOR LIST OF STRUCTURAL DRAWINGS.
8. TO BE READ IN CONJUNCTION WITH STRUCTURAL DRAWINGS REFER DWG 4925/05/100 FOR LIST OF STRUCTURAL DRAWINGS.
9. TO BE READ IN CONJUNCTION WITH CONSTRUCTION SPECIFICATION .
10. TO BE READ IN CONJUNCTION WITH PROJECT NOTICE.

City of Port Phillip
Advertised Document
Planning Application No. PDPL/00673/2024
No. of Pages: 43 of 418

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REV	DESCRIPTION	COMPANY	PROJECT OR WO NUMBER	DRAWN	ENG. CHECK	PR. MAN. APP'D	DATE
0	ISSUED FOR TENDER	W4G	D10134	DMcA	KK	MC	16/10/24

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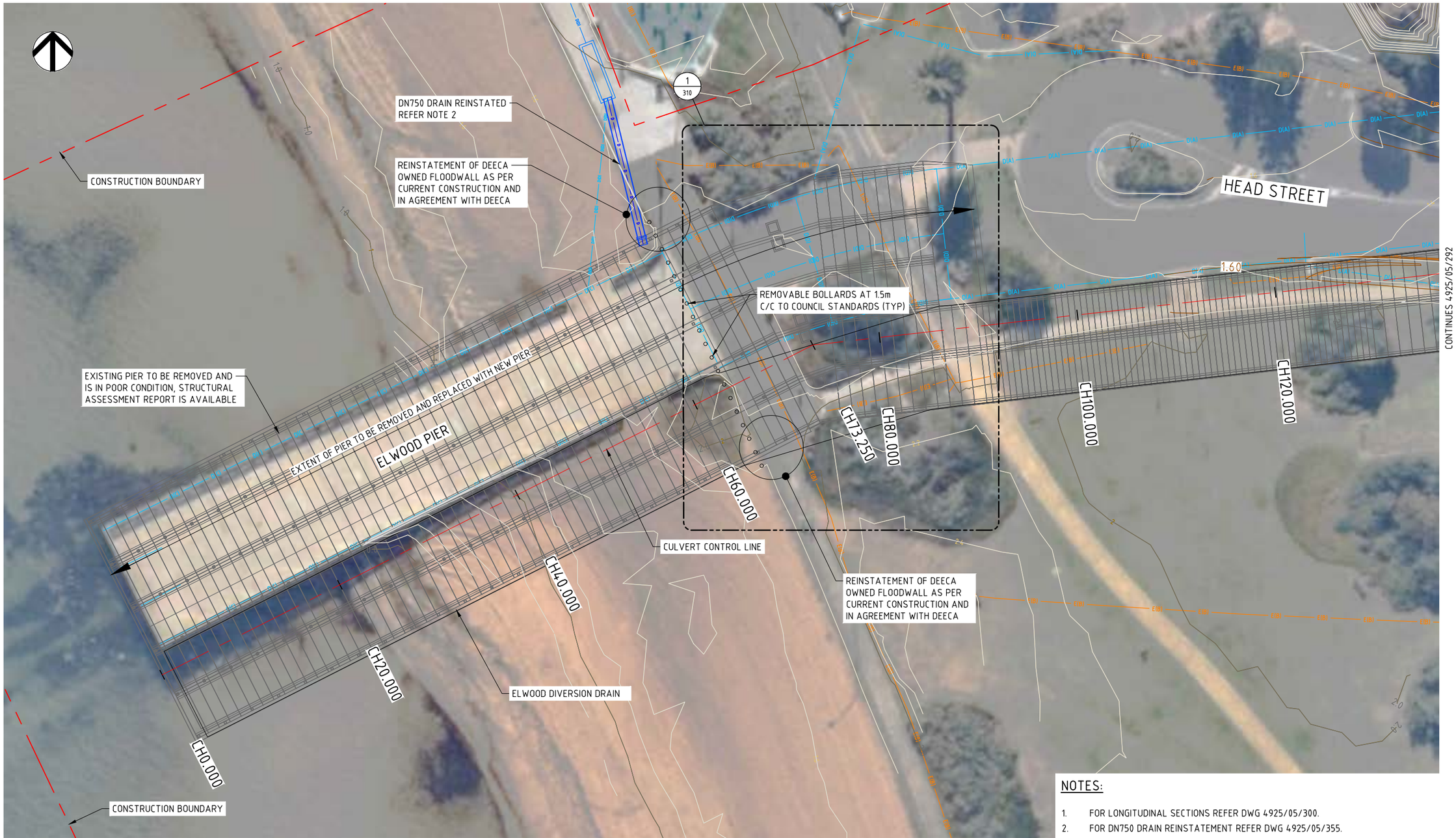
DRAFTER	DESIGNER	PROJECT MANAGER APPROVAL	CLIENT REP. APPROVAL
S.SERGIENKO	M. BUCKLEY	M. CALDECOTT	
DRAFTING CHECK	ENGINEERING REVIEW		
D.McAULIFFE	K. KUHANESAN		

TITLE
ELWOOD DIVERSION DRAIN
CULVERT - GENERAL ARRANGEMENT
KEY PLAN

PROJECT DATUM	Original Size	MELBOURNE WATER CORPORATION	
GDA 1994 MGA Zone 55	A1	C 4925/05/290	0
SCALE 1:1000		CODE MWC DRAWING NUMBER	REV

Document Set ID: 8588168
Version: 1, Version Date: 08/01/2025

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Last Edited: KI55626



PLAN
SCALE 1:200

SCALE 1: 200 — 0 4 8 12 16 — SCALE IN m

NOTES:

1. FOR LONGITUDINAL SECTIONS REFER DWG 4925/05/300.
2. FOR DN750 DRAIN REINSTATEMENT REFER DWG 4925/05/355.
3. FOR ELWOOD PIER SETOUT AND DETAILS REFER DWG 4925/05/306.

City of Port Phillip
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Planning Application No. PDPL/00673/2024
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REV	DESCRIPTION	COMPANY	PROJECT OR WO NUMBER	DRAWN	ENG. CHECK	PR. MAN. APPD	DATE
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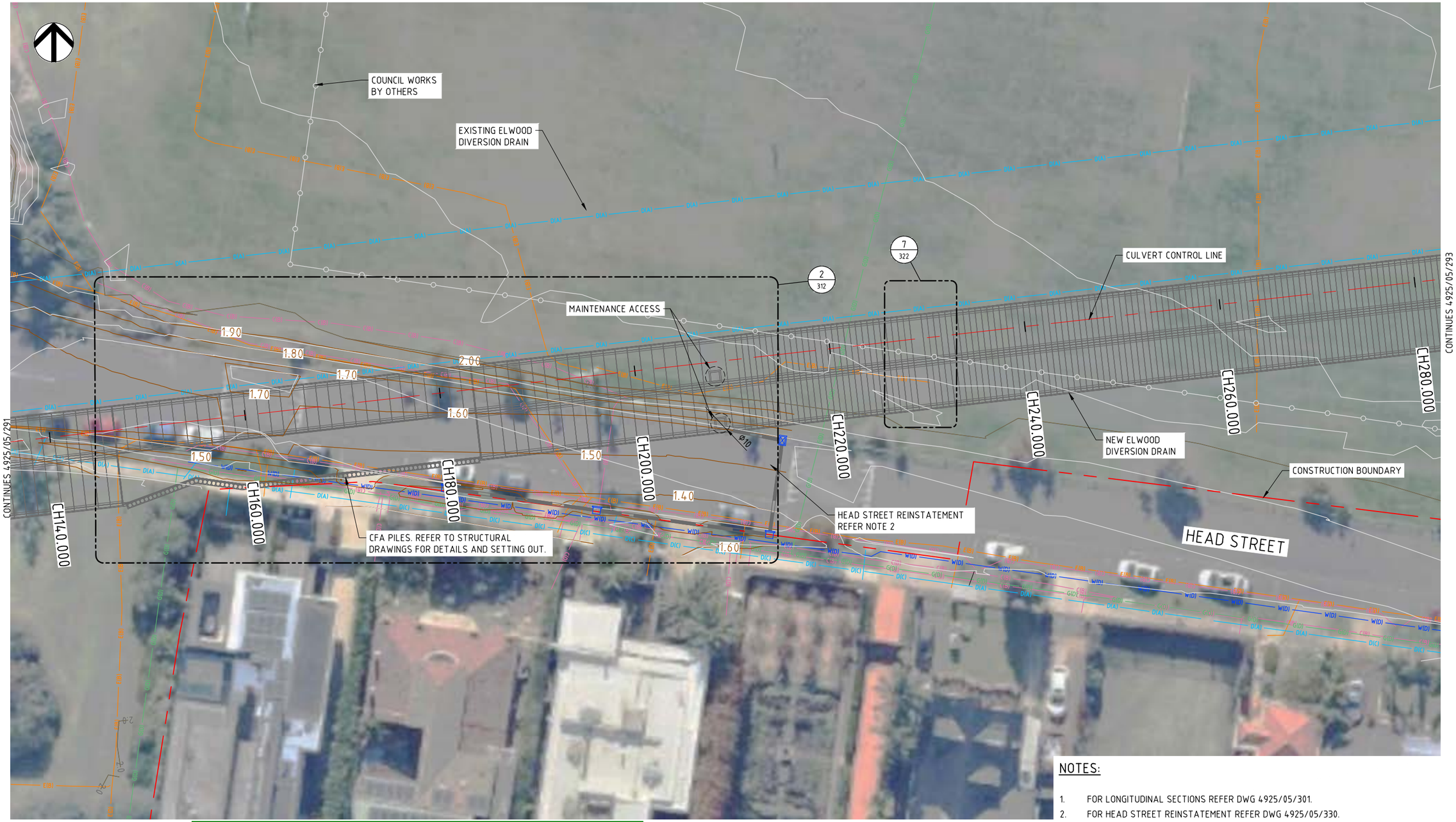
Melbourne Water
D10134 - ELWOOD DIVERSION DRAIN

DRAFTER	DESIGNER	PROJECT MANAGER APPROVAL	CLIENT REP. APPROVAL
S.SERGIENKO	M. BUCKLEY	M. CALDECOTT	
DRAFTING CHECK	ENGINEERING REVIEW		
D.McAULIFFE	K. KUHANESAN		

TITLE
ELWOOD DIVERSION DRAIN
CULVERT - GENERAL ARRANGEMENT
PLAN - SHEET 1 OF 5

PROJECT DATUM	Original Size	MELBOURNE WATER CORPORATION	
GDA 1994 MGA Zone 55	A1	C 4925/05/291	0
SCALE 1:200		CODE MWC DRAWING NUMBER	REV

Document Set ID: 8588168
Version: 1, Version Date: 08/01/2025



NOTES:

1. FOR LONGITUDINAL SECTIONS REFER DWG 4925/05/301.
2. FOR HEAD STREET REINSTATEMENT REFER DWG 4925/05/330.

PLAN
SCALE 1:200

SCALE 1: 200 — SCALE IN m

City of Port Phillip
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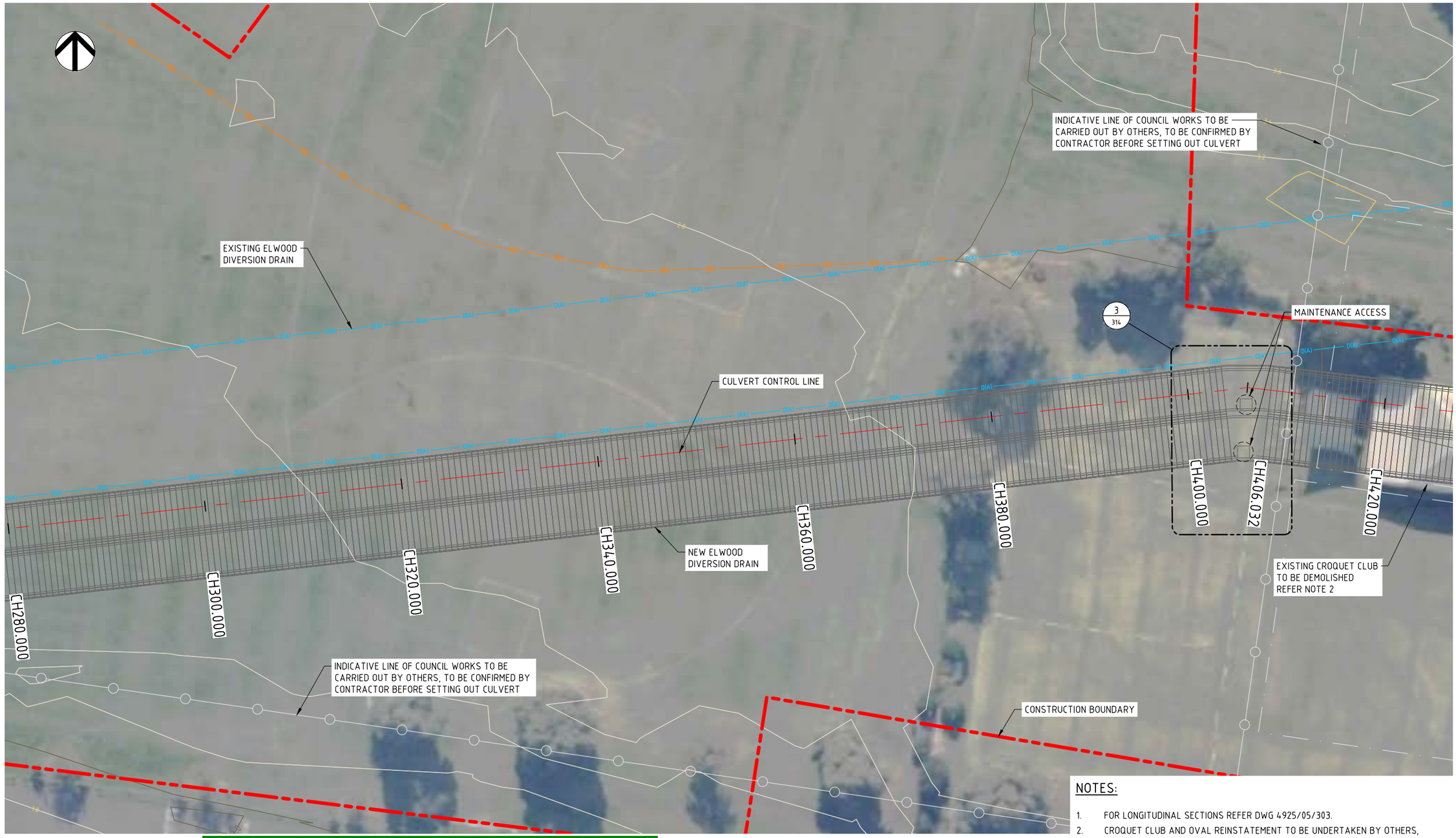
DRAFTER	DESIGNER	PROJECT MANAGER APPROVAL	CLIENT REP. APPROVAL
S.SERGIENKO	M. BUCKLEY	M. CALDECOTT	
DRAFTING CHECK	ENGINEERING REVIEW		
D.McAULIFFE	K. KUHANESAN		

TITLE
ELWOOD DIVERSION DRAIN
CULVERT - GENERAL ARRANGEMENT
PLAN - SHEET 2 OF 5

PROJECT DATUM	Original Size	MELBOURNE WATER CORPORATION	
GDA 1994 MGA Zone 55	A1	C 4925/05/292	0
SCALE 1:200		CODE MWC DRAWING NUMBER	REV

Document Set ID: 8588168
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16 Oct, 2024 - 3:58pm
Last Edited: K155626



PLAN
SCALE 1:200

NOTES:

1. FOR LONGITUDINAL SECTIONS REFER DWG 4925/05/303.
2. CROQUET CLUB AND OVAL REINSTATEMENT TO BE UNDERTAKEN BY OTHERS, INDICATIVE LAYOUT PROVIDED FOR INFORMATION SUBJECT TO FINAL APPROVAL BY CITY OF PORT PHILLIP COUNCIL.

SCALE 1: 200 — 0 4 8 12 16 SCALE IN m

City of Port Phillip
Advertised Document
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No. of Pages: 46 of 418

NOT FOR CONSTRUCTION

REV	DESCRIPTION	COMPANY	PROJECT OR WO NUMBER	DRAWN	ENG. CHECK	PR. MAN. APPD	DATE
0	ISSUED FOR TENDER	W4G	D10134	DMcA	KK	MC	16/10/24

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Melbourne Water
D10134 - ELWOOD DIVERSION DRAIN

DRAFTER	DESIGNER	PROJECT MANAGER APPROVAL	CLIENT REP. APPROVAL
S.SERGIENKO	M. BUCKLEY	M. CALDECOTT	
DRAFTING CHECK	ENGINEERING REVIEW		
D.McAULIFFE	K. KUHANESAN		

TITLE
ELWOOD DIVERSION DRAIN
CULVERT - GENERAL ARRANGEMENT
PLAN - SHEET 3 OF 5

PROJECT DATUM GDA 1994 MGA Zone 55
SCALE 1:200
Original Size A1

MELBOURNE WATER CORPORATION

CODE	MWC DRAWING NUMBER	REV
C	4925/05/293	0

Document Set ID: 8588168
Version: 1, Version Date: 08/01/2025

Last Edited: ka084z9 17 Oct, 2024 - 3:48pm Cad File:O:\G&N\CAD\Projects\MEG250\21\Drawings\Civil\4925_05_293.dwg



PLAN
SCALE 1:200

SCALE 1: 200 — 0 4 8 12 16 SCALE IN m

NOTES:

1. FOR LONGITUDINAL SECTIONS REFER DWG 4925/05/304.
2. CROQUET CLUB AND OVAL REINSTATEMENT TO BE UNDERTAKEN BY OTHERS, INDICATIVE LAYOUT PROVIDED FOR INFORMATION SUBJECT TO FINAL APPROVAL BY CITY OF PORT PHILLIP COUNCIL.
3. FOR ST KILDA ROAD REFER DWG 4925/05/340.

City of Port Phillip
Advertised Document
Planning Application No. PDPL/00673/2024
No. of Pages: 47 of 418

NOT FOR CONSTRUCTION

REV	DESCRIPTION	COMPANY	PROJECT OR WO NUMBER	DRAWN	ENG. CHECK	PR. MAN. APP'D	DATE
0	ISSUED FOR TENDER	W4G	D10134	DMcA	KK	MC	16/10/24

MEG250-21-DW-CV-GAR-0005-Rev0

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Melbourne Water

D10134 - ELWOOD DIVERSION DRAIN

DRAFTER	DESIGNER	PROJECT MANAGER APPROVAL	CLIENT REP. APPROVAL
S.SERGIENKO	M. BUCKLEY	M. CALDECOTT	
DRAFTING CHECK	ENGINEERING REVIEW		
D.McAULIFFE	K. KUHANESAN		

TITLE
ELWOOD DIVERSION DRAIN
CULVERT - GENERAL ARRANGEMENT
PLAN - SHEET 4 OF 5

PROJECT DATUM GDA 1994 MGA Zone 55
SCALE 1:200
Original Size A1

MELBOURNE WATER CORPORATION

CODE	MWC DRAWING NUMBER	REV
C	4925/05/294	0

Cad File:O:\G&I\CAD\Projects\MEG250\21\Drawings\Civil\4925_05_294.dwg
16 Oct, 2024 - 3:59pm
Last Edited: K155626

Document Set ID: 8588168
Version: 1, Version Date: 08/01/2025



NOTES:

1. FOR LONGITUDINAL SECTIONS REFER DWG 4925/05/304.
2. FOR INLET PIT REINSTATEMENT REFER DWG 4925/05/350.

PLAN
SCALE 1:200

SCALE 1: 200 — SCALE IN m (0, 4, 8, 12, 16)

City of Port Phillip
Advertised Document
Planning Application No. PDPL/00673/2024
No. of Pages: 48 of 418

NOT FOR CONSTRUCTION

REV	DESCRIPTION	COMPANY	PROJECT OR WO NUMBER	DRAWN	ENG. CHECK	PR. MAN. APPD	DATE
0	ISSUED FOR TENDER	W4G	D10134	DMcA	KK	MC	16/10/24

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D10134 - ELWOOD DIVERSION DRAIN

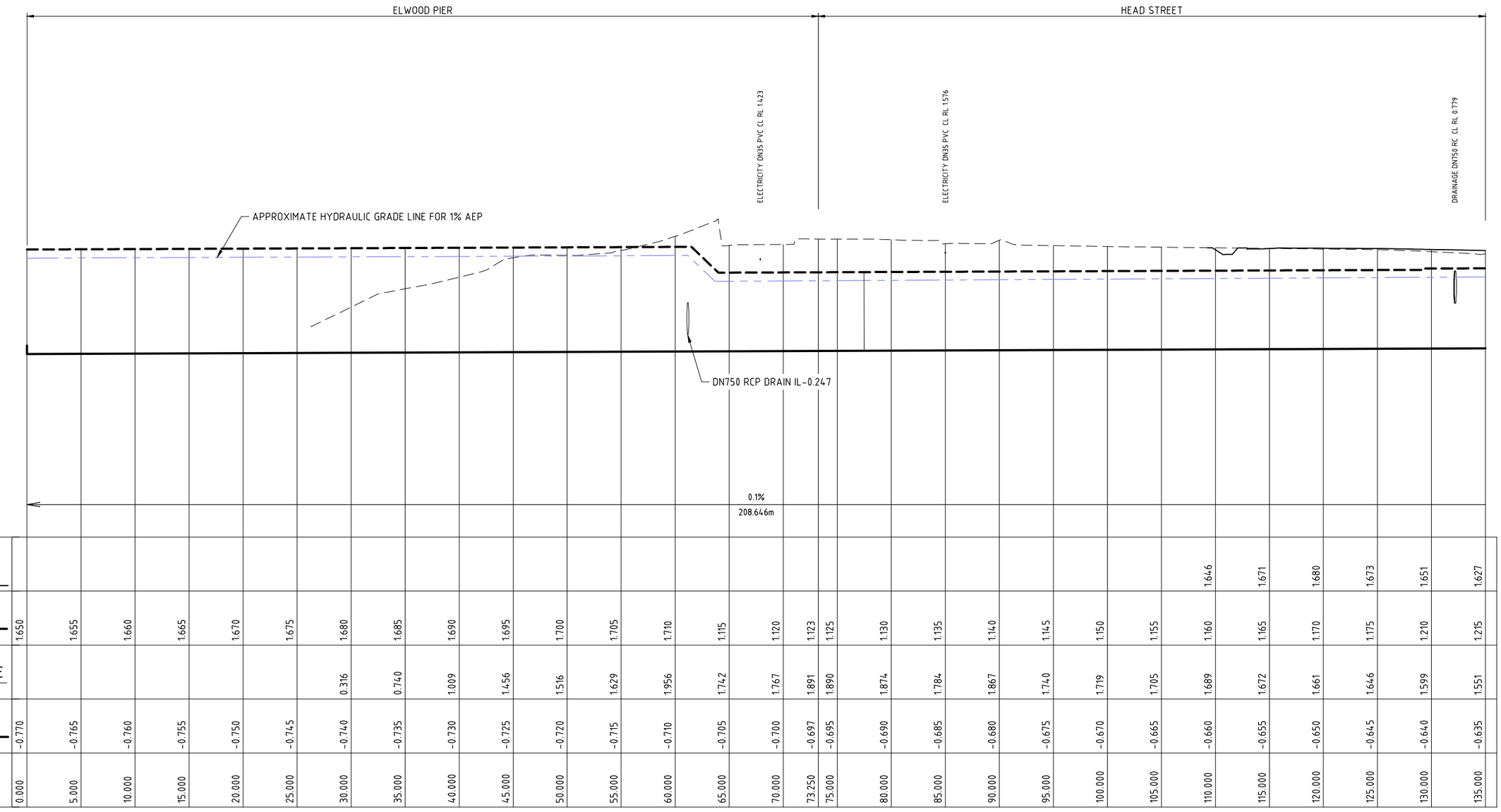
DRAFTER	DESIGNER	PROJECT MANAGER APPROVAL	CLIENT REP. APPROVAL
S.SERGIENKO	M. BUCKLEY	M. CALDECOTT	
DRAFTING CHECK	ENGINEERING REVIEW		
D.McAULIFFE	K. KUHANESAN		

TITLE
ELWOOD DIVERSION DRAIN
CULVERT - GENERAL ARRANGEMENT
PLAN - SHEET 5 OF 5

PROJECT DATUM	Original Size	MELBOURNE WATER CORPORATION	
GDA 1994 MGA Zone 55	A1	C 4925/05/295	0
SCALE 1:200		CODE MWC DRAWING NUMBER	REV

Document Set ID: 8588168
Version: 1, Version Date: 08/01/2025

Last Edited: K155626 16. Oct, 2024 - 3:59pm Cad File:O:\G&I\CAD\Projects\MEG250\21\Drawings\Civil\4925_05_295.dwg



CULVERT GRADE														0.1%																		
LENGTH														208.646m																		
DATUM R.L.-5.00																																
HEAD ST DESIGN SURFACE																										1.646	1.671	1.680	1.673	1.651	1.627	
TOP OF CULVERT	1.650	1.655	1.660	1.665	1.670	1.675	1.680	1.685	1.690	1.695	1.700	1.705	1.710	1.115	1.120	1.123	1.125	1.130	1.135	1.140	1.145	1.150	1.155	1.160	1.165	1.170	1.175	1.210	1.215	
EXISTING SURFACE							0.316	0.740	1.009	1.456	1.516	1.629	1.956	1.742	1.767	1.891	1.890	1.874	1.784	1.867	1.740	1.719	1.705	1.689	1.672	1.661	1.646	1.599	1.551	
CULVERT CONTROL LINE IL	-0.770	-0.765	-0.760	-0.755	-0.750	-0.745	-0.740	-0.735	-0.730	-0.725	-0.720	-0.715	-0.710	-0.705	-0.700	-0.697	-0.695	-0.690	-0.685	-0.680	-0.675	-0.670	-0.665	-0.660	-0.655	-0.650	-0.645	-0.640	-0.635	
CHAINAGE	0.000	5.000	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000	55.000	60.000	65.000	70.000	73.250	75.000	80.000	85.000	90.000	95.000	100.000	105.000	110.000	115.000	120.000	125.000	130.000	135.000	

CULVERT CONTROL LINE - LONGITUDINAL SECTION

HORIZONTAL SCALE 1 : 200
VERTICAL SCALE 1 : 50

SCALE 1: 50 — 0 1 2 3 4 — SCALE IN m

SCALE 1: 200 — 0 4 8 12 16 — SCALE IN m

City of Port Phillip
Advertised Document
Planning Application No. PDPL/00673/2024
No. of Pages: 49 of 418

NOT FOR CONSTRUCTION

REV	DESCRIPTION	COMPANY	PROJECT OR WO NUMBER	DRAWN	ENG. CHECK	PR. MAN. APP'D	DATE
0	ISSUED FOR TENDER	W4G	D10134	DMcA	KK	MC	16/10/24

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Melbourne Water
D10134 - ELWOOD DIVERSION DRAIN

DRAFTER	DESIGNER	PROJECT MANAGER APPROVAL	CLIENT REP. APPROVAL
S.SERGIENKO	M. BUCKLEY	M. CALDECOTT	
DRAFTING CHECK	ENGINEERING REVIEW		
D.McAULIFFE	K. KUHANESAN		

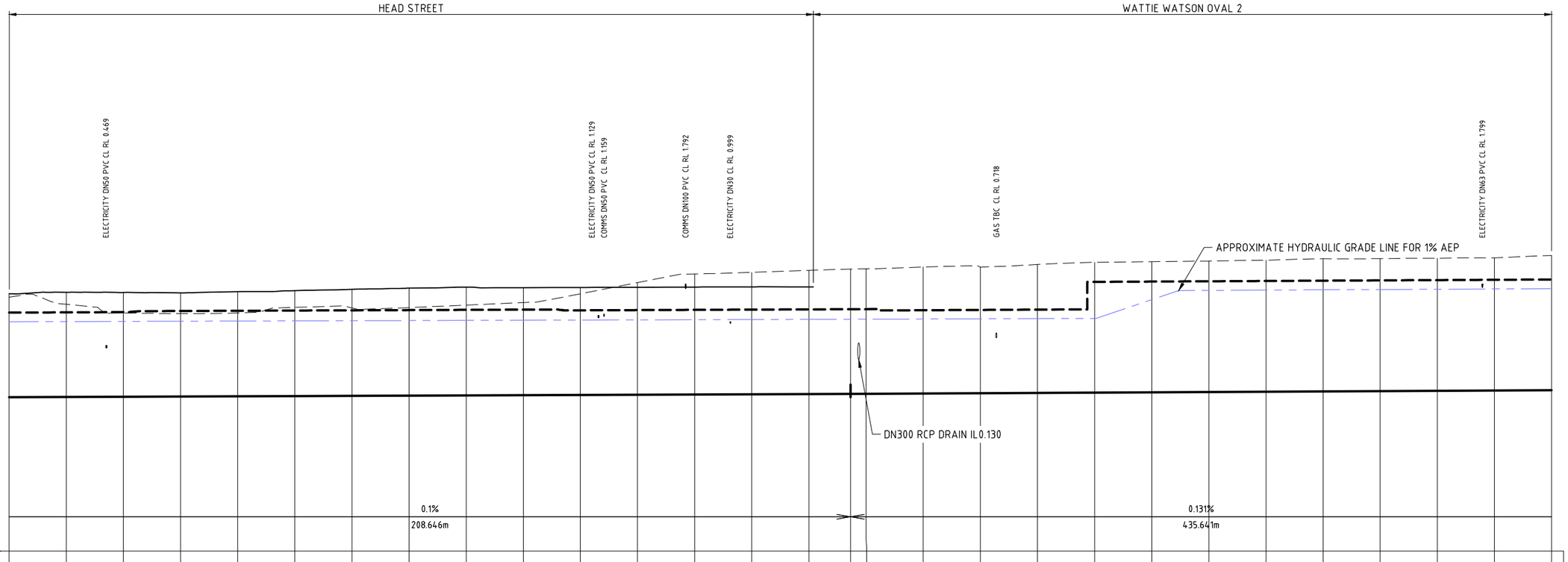
TITLE
ELWOOD DIVERSION DRAIN
CULVERT - GENERAL ARRANGEMENT
LONGITUDINAL SECTION - SHEET 1 OF 5

PROJECT DATUM	Original Size	MELBOURNE WATER CORPORATION	
GDA 1994 MGA Zone 55	A1	C 4925/05/300	0
SCALE AS SHOWN		CODE MWC DRAWING NUMBER	REV

MWC DRAWING NUMBER: 4925_05_300
CODE: C
REV: 0

Last Edited: KIS5626 16 Oct, 2024 - 3:59pm Cad File:O:\G&N\CAD\Projects\MEG250\21\Drawings\Civil\4925_05_300.dwg

Document Set ID: 8588168
Version: 1, Version Date: 08/01/2025



CULVERT GRADE								0.1%																0.131%						
LENGTH								208.646m																435.641m						
DATUM R.L.-4.00																														
HEAD ST DESIGN SURFACE	1.627	1.659	1.656	1.645	1.671	1.697	1.723	1.749	1.772	1.761	1.765	1.769	1.773	1.776	1.776															
TOP OF CULVERT	1.215	1.220	1.225	1.250	1.255	1.260	1.265	1.270	1.275	1.280	1.265	1.270	1.275	1.280	1.285	1.289	1.290	1.267	1.274	1.280	1.887	1.893	1.900	1.906	1.913	1.919	1.926	1.933	1.939	
EXISTING SURFACE	1.551	1.396	1.205	1.195	1.207	1.329	1.318	1.324	1.379	1.434	1.627	1.871	2.061	2.095	2.137	2.167	2.173	2.211	2.211	2.267	2.313	2.329	2.341	2.361	2.393	2.395	2.403	2.412	2.464	
CULVERT CONTROL LINE IL	-0.635	-0.630	-0.625	-0.620	-0.615	-0.610	-0.605	-0.600	-0.595	-0.590	-0.585	-0.580	-0.575	-0.570	-0.565	-0.561	-0.560	-0.553	-0.546	-0.540	-0.533	-0.527	-0.520	-0.514	-0.507	-0.501	-0.494	-0.487	-0.481	
CHAINAGE	135.000	140.000	145.000	150.000	155.000	160.000	165.000	170.000	175.000	180.000	185.000	190.000	195.000	200.000	205.000	208.646	210.000	215.000	220.000	225.000	230.000	235.000	240.000	245.000	250.000	255.000	260.000	265.000	270.000	

CULVERT CONTROL LINE - LONGITUDINAL SECTION

HORIZONTAL SCALE 1 : 200
VERTICAL SCALE 1 : 50

SCALE 1: 50 — 0 1 2 3 4 SCALE IN m

SCALE 1: 200 — 0 4 8 12 16 SCALE IN m

City of Port Phillip
Advertised Document
Planning Application No. PDPL/00673/2024
No. of Pages: 50 of 418

NOT FOR CONSTRUCTION

REV	DESCRIPTION	COMPANY	PROJECT OR WO NUMBER	DRAWN	ENG. CHECK	PR. MAN. APP'D	DATE
0	ISSUED FOR TENDER	W4G	D10134	DMcA	KK	MC	16/10/24

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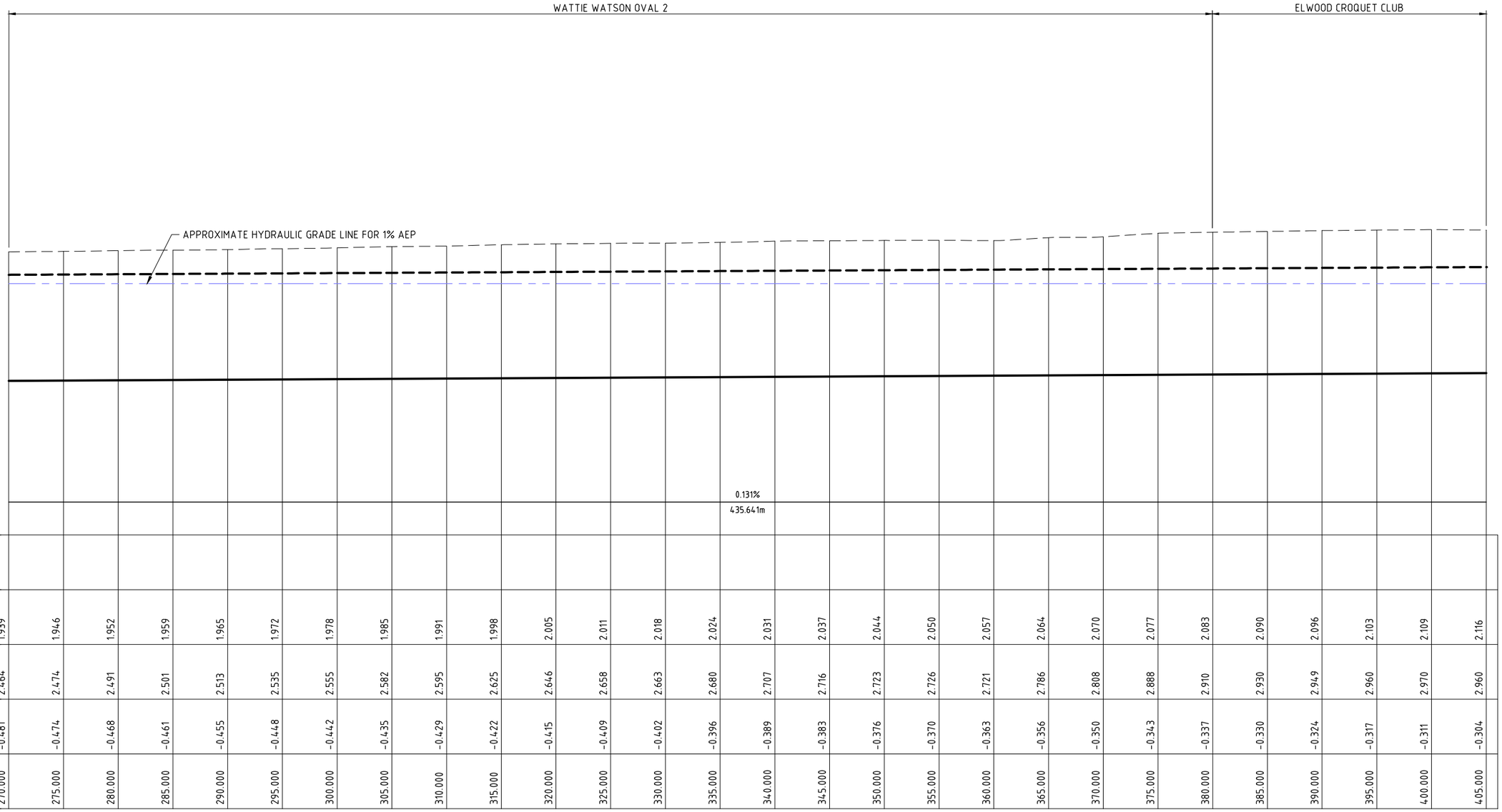
D10134 - ELWOOD DIVERSION DRAIN

DRAFTER	DESIGNER	PROJECT MANAGER APPROVAL	CLIENT REP. APPROVAL
S.SERGIENKO	M. BUCKLEY	M. CALDECOTT	
DRAFTING CHECK	ENGINEERING REVIEW		
D.McAULIFFE	K. KUHANESAN		

TITLE
ELWOOD DIVERSION DRAIN
CULVERT - GENERAL ARRANGEMENT
LONGITUDINAL SECTION - SHEET 2 OF 5

PROJECT DATUM	Original Size	MELBOURNE WATER CORPORATION	
GDA 1994 MGA Zone 55	A1	C	4925/05/301 0
SCALE AS SHOWN		CODE	MWC DRAWING NUMBER REV

Document Set ID: 8588168
Version: 1, Version Date: 08/01/2025



CULVERT GRADE														0.131%																
LENGTH														435.641m																
DATUM R.L.-4.00																														
HEAD ST DESIGN SURFACE																														
TOP OF CULVERT	1.939	1.946	1.952	1.959	1.965	1.972	1.978	1.985	1.991	1.998	2.005	2.011	2.018	2.024	2.031	2.037	2.044	2.050	2.057	2.064	2.070	2.077	2.083	2.090	2.096	2.103	2.109	2.116		
EXISTING SURFACE	2.464	2.474	2.491	2.501	2.513	2.535	2.555	2.582	2.595	2.625	2.646	2.658	2.663	2.680	2.707	2.716	2.723	2.726	2.721	2.786	2.808	2.888	2.910	2.930	2.949	2.960	2.970	2.960		
CULVERT CONTROL LINE IL	-0.481	-0.474	-0.468	-0.461	-0.455	-0.448	-0.442	-0.435	-0.429	-0.422	-0.415	-0.409	-0.402	-0.396	-0.389	-0.383	-0.376	-0.370	-0.363	-0.356	-0.350	-0.343	-0.337	-0.330	-0.324	-0.317	-0.311	-0.304		
CHAINAGE	270.000	275.000	280.000	285.000	290.000	295.000	300.000	305.000	310.000	315.000	320.000	325.000	330.000	335.000	340.000	345.000	350.000	355.000	360.000	365.000	370.000	375.000	380.000	385.000	390.000	395.000	400.000	405.000		

CULVERT CONTROL LINE - LONGITUDINAL SECTION

HORIZONTAL SCALE 1 : 200
VERTICAL SCALE 1 : 50

0 1 2 3 4
SCALE 1: 50 SCALE IN m

0 4 8 12 16
SCALE 1: 200 SCALE IN m

City of Port Phillip
Advertised Document
Planning Application No. PDPL/00673/2024
No. of Pages: 51 of 418

NOT FOR CONSTRUCTION

REV	DESCRIPTION	COMPANY	PROJECT OR WO NUMBER	DRAWN	ENG. CHECK	PR. MAN. APP'D	DATE
0	ISSUED FOR TENDER	W4G	D10134	DMcA	KK	MC	16/10/24

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D10134 - ELWOOD DIVERSION DRAIN

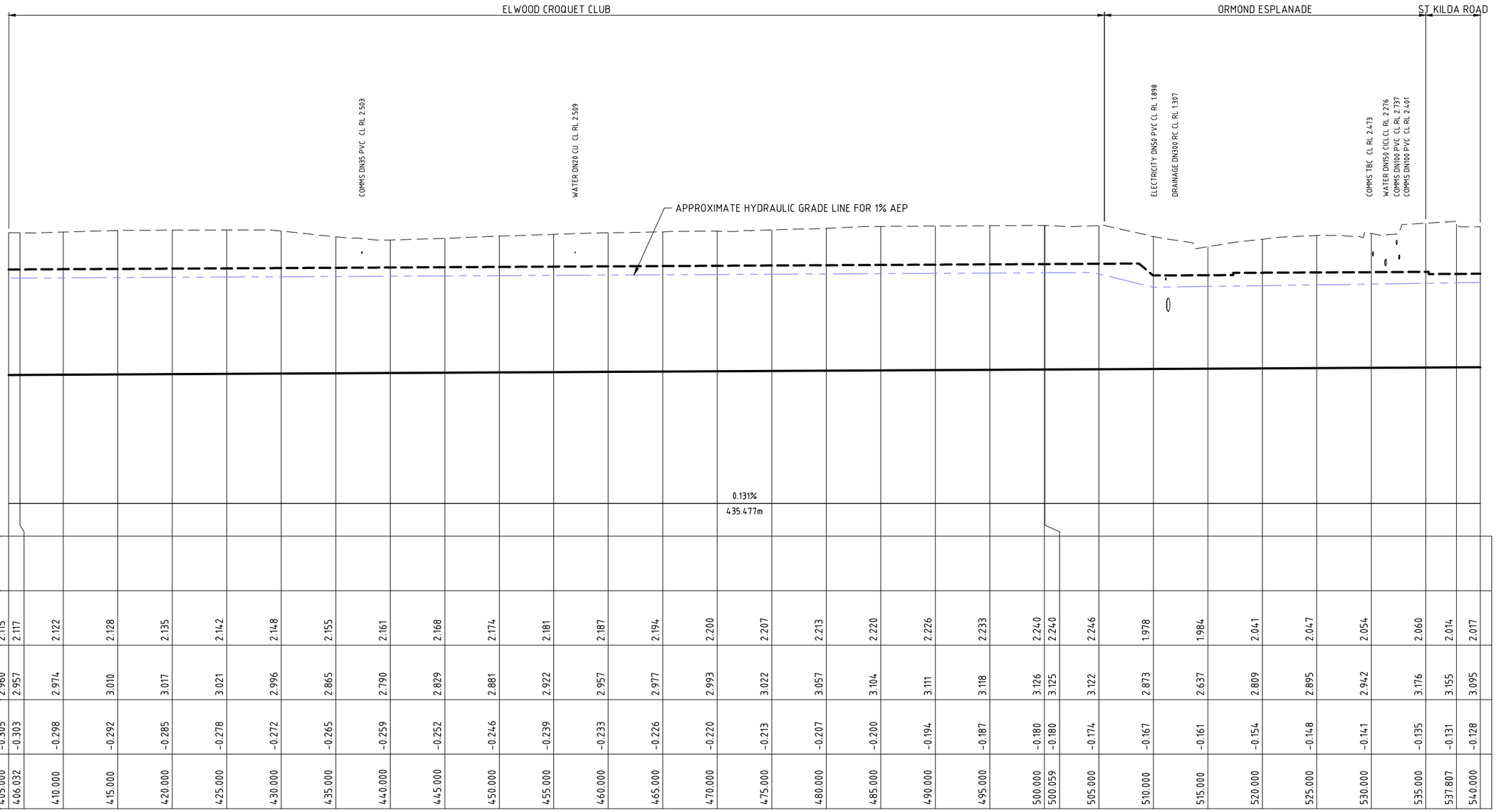
DRAFTER	DESIGNER	PROJECT MANAGER APPROVAL	CLIENT REP. APPROVAL
S.SERGIENKO	M. BUCKLEY	M. CALDECOTT	
DRAFTING CHECK	ENGINEERING REVIEW		
D.McAULIFFE	K. KUHANESAN		

TITLE
ELWOOD DIVERSION DRAIN
CULVERT - GENERAL ARRANGEMENT
LONGITUDINAL SECTION - SHEET 3 OF 5

PROJECT DATUM	Original Size	MELBOURNE WATER CORPORATION	
GDA 1994 MGA Zone 55	A1	C	4925/05/302	0
SCALE AS SHOWN		CODE	MWC DRAWING NUMBER	REV

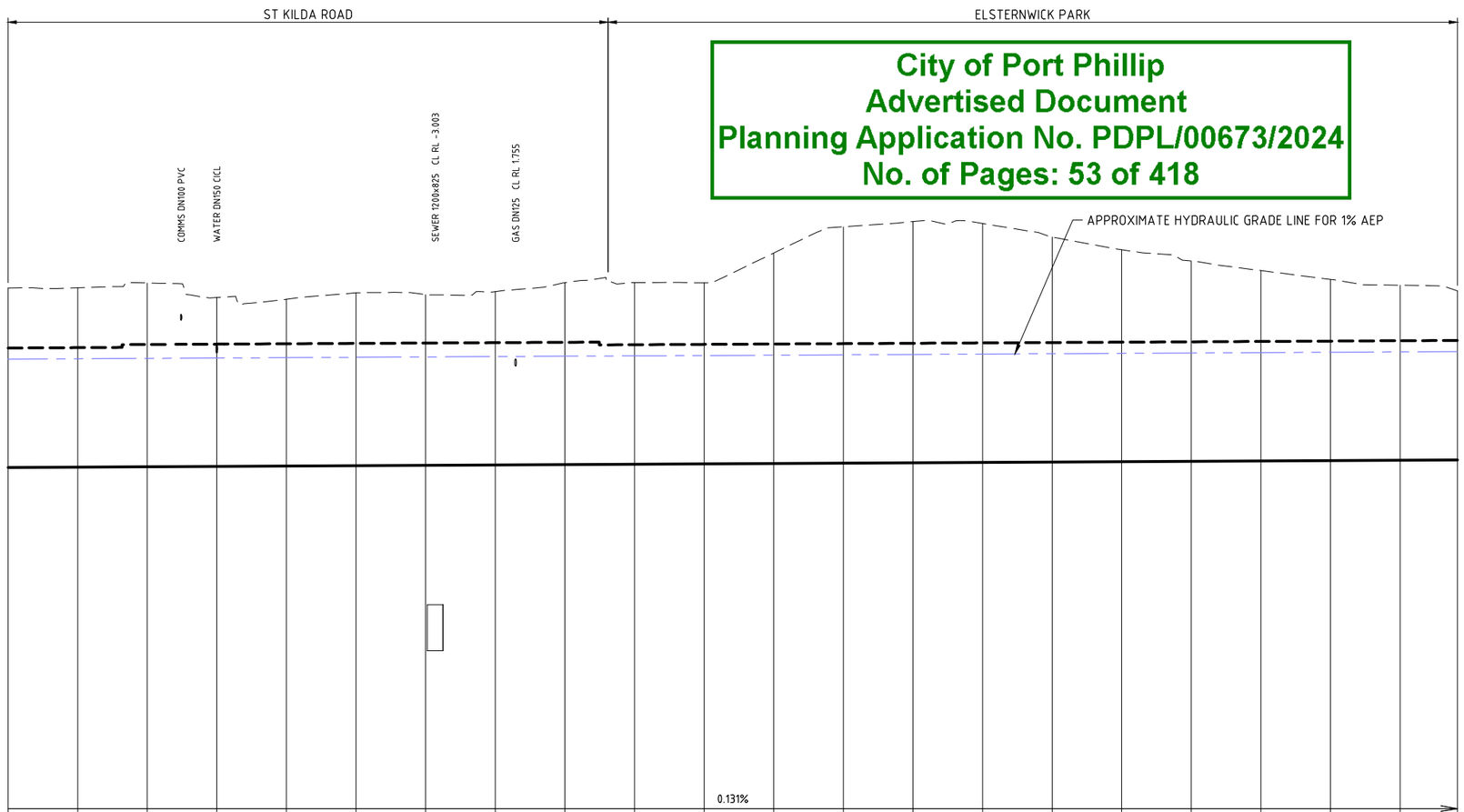
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16 Oct, 2024 - 3:59pm
Last Edited: KI55626

Document Set ID: 8588168
Version: 1, Version Date: 08/01/2025


ELWOOD CROQUET CLUB
ORMOND ESPLANADE
ST KILDA ROAD
COMMS DN35 PVC CL RL 2.503
WATER DN20 CU CL RL 2.509
APPROXIMATE HYDRAULIC GRADE LINE FOR 1% AEP
ELECTRICITY DN50 PVC CL RL 1.898
DRAINAGE DN300 RC CL RL 1.307
COMMS TBC CL RL 2.473
WATER DN150 CICLCL RL 2.276
COMMS DN100 PVC CL RL 2.737
COMMS DN100 PVC CL RL 2.401

| | | |

City of Port Phillip
Advertised Document
Planning Application No. PDPL/00673/2024
No. of Pages: 53 of 418



CULVERT GRADE											0.131%											
LENGTH											435.477m											
DATUM R.L.-7.00																						
HEAD ST DESIGN SURFACE																						
TOP OF CULVERT	2.017	2.023	2.080	2.086	2.093	2.100	2.106	2.113	2.119	2.076	2.082	2.089	2.095	2.102	2.108	2.115	2.121	2.128	2.135	2.141	2.148	
EXISTING SURFACE	3.095	3.098	3.184	2.922	2.893	3.008	2.975	3.029	3.188	3.190	3.186	3.722	4.192	4.284	4.253	4.010	3.780	3.580	3.407	3.247	3.144	3.043
CULVERT CONTROL LINE IL	-0.128	-0.122	-0.115	-0.109	-0.102	-0.095	-0.089	-0.082	-0.076	-0.069	-0.063	-0.056	-0.050	-0.043	-0.037	-0.030	-0.024	-0.017	-0.010	-0.004	0.003	0.008
CHAINAGE	540.000	545.000	550.000	555.000	560.000	565.000	570.000	575.000	580.000	585.000	590.000	595.000	600.000	605.000	610.000	615.000	620.000	625.000	630.000	635.000	640.000	644.123

CULVERT CONTROL LINE - LONGITUDINAL SECTION

HORIZONTAL SCALE 1 : 200
VERTICAL SCALE 1 : 50

0 1 2 3 4
SCALE 1: 50 SCALE IN m

0 4 8 12 16
SCALE 1: 200 SCALE IN m

NOT FOR CONSTRUCTION

REV	DESCRIPTION	COMPANY	PROJECT OR WO NUMBER	DRAWN	ENG. CHECK	PR. MAN. APP'D	DATE
0	ISSUED FOR TENDER	W4G	D10134	DMcA	KK	RR	16/10/24

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D10134 - ELWOOD DIVERSION DRAIN

DRAFTER	DESIGNER	PROJECT MANAGER APPROVAL	CLIENT REP. APPROVAL
S.SERGIENKO	M. BUCKLEY	M. CALDECOTT	
DRAFTING CHECK	ENGINEERING REVIEW		
D.McAULIFFE	K. KUHANESAN		

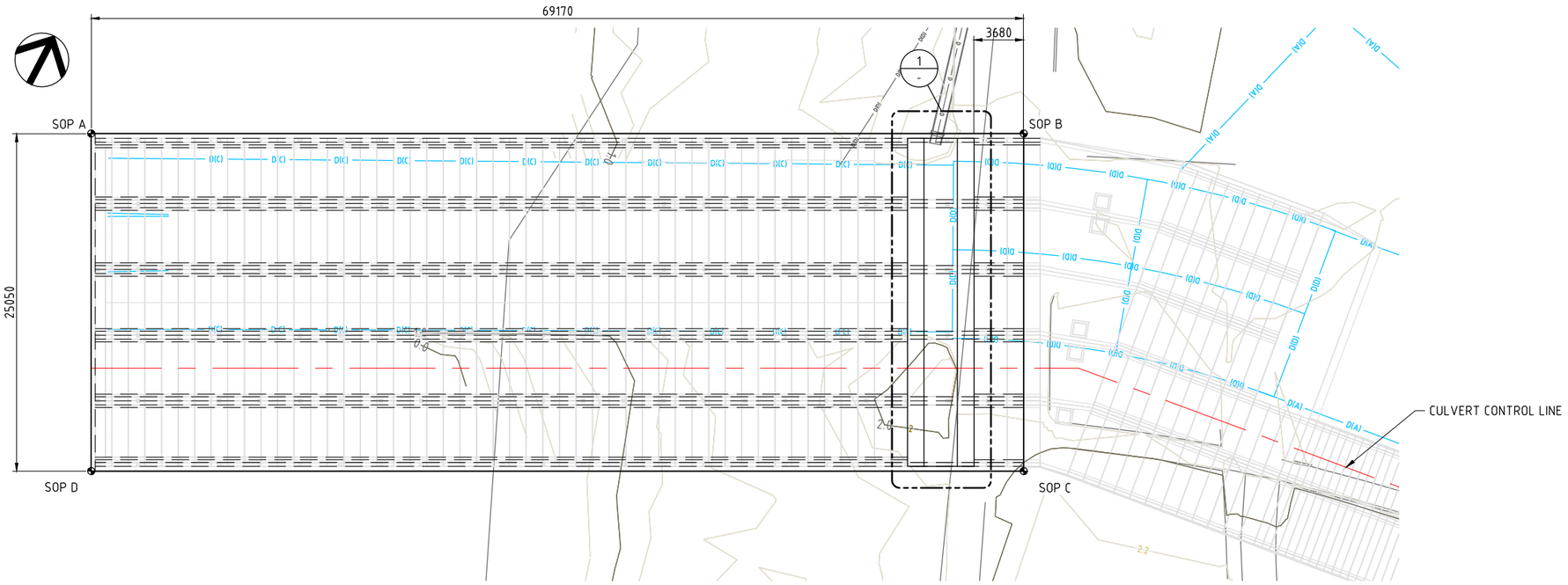
TITLE
ELWOOD DIVERSION DRAIN
CULVERT - GENERAL ARRANGEMENT
LONGITUDINAL SECTION - SHEET 5 OF 5

PROJECT DATUM GDA 1994 MGA Zone 55
SCALE AS SHOWN
Original Size A1

MELBOURNE WATER CORPORATION
CODE C | MWC DRAWING NUMBER 4925/05/304 | REV 0

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Last Edited: KI55626 16 Oct, 2024 - 3:59pm

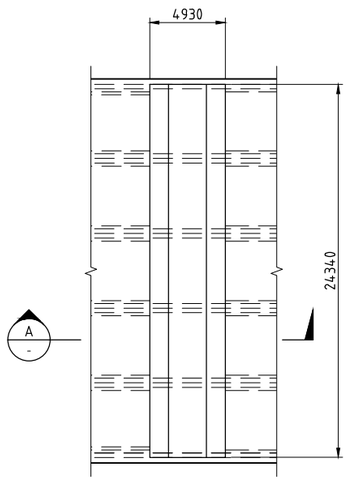
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Version: 1, Version Date: 08/01/2025



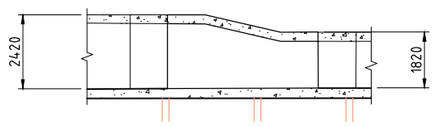
PLAN – ELWOOD PIER
SCALE 1:200

SET OUT DATA

SOP NO	EASTING	NORTHING
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SOP B	322841.441	5804348.877
SOP C	322852.755	5804326.527
SOP D	322791.043	5804295.288



DETAIL 1
SCALE 1:200



SECTION A
SCALE 1:100

City of Port Phillip
Advertised Document
Planning Application No. PDPL/00673/2024
No. of Pages: 54 of 418

NOTES:

1. REFER TO STRUCTURAL DRAWINGS FOR ROOF AND BASE SLAB CONSTRUCTION DETAILS.

NOT FOR CONSTRUCTION

SCALE 1:200 (0, 4, 8, 12, 16) SCALE IN m

REV	DESCRIPTION	COMPANY	PROJECT OR WO NUMBER	DRAWN	ENG. CHECK	PR. MAN. APP'D	DATE
0	ISSUED FOR TENDER	W4G	D10134	DMcA	KK	MC	16/10/24

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Melbourne Water
D10134 - ELWOOD DIVERSION DRAIN

DRAFTER	DESIGNER	PROJECT MANAGER APPROVAL	CLIENT REP. APPROVAL
S.SERGIENKO	M. BUCKLEY	M. CALDECOTT	
DRAFTING CHECK	ENGINEERING REVIEW		
D.McAULIFFE	K. KUHANESAN		

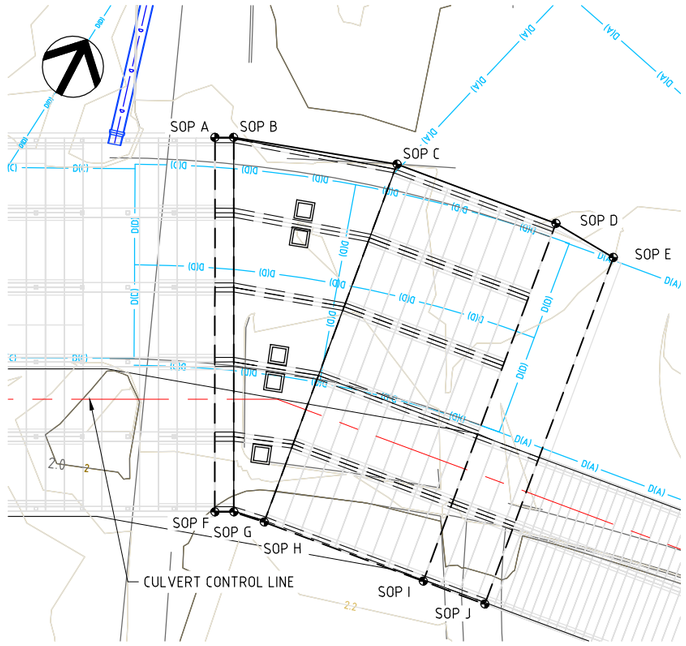
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ELWOOD PIER
DETAILS

PROJECT DATUM: GDA 1994 MGA Zone 55
SCALE: 1:100
Original Size: A1

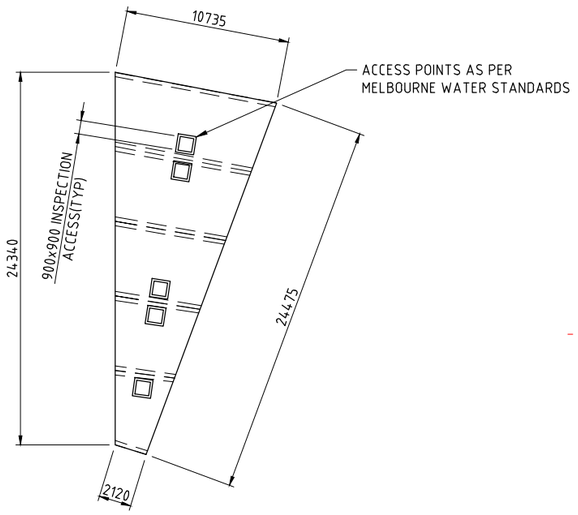
MELBOURNE WATER CORPORATION
C — 4925/05/306 — 0
CODE — MWC DRAWING NUMBER — REV

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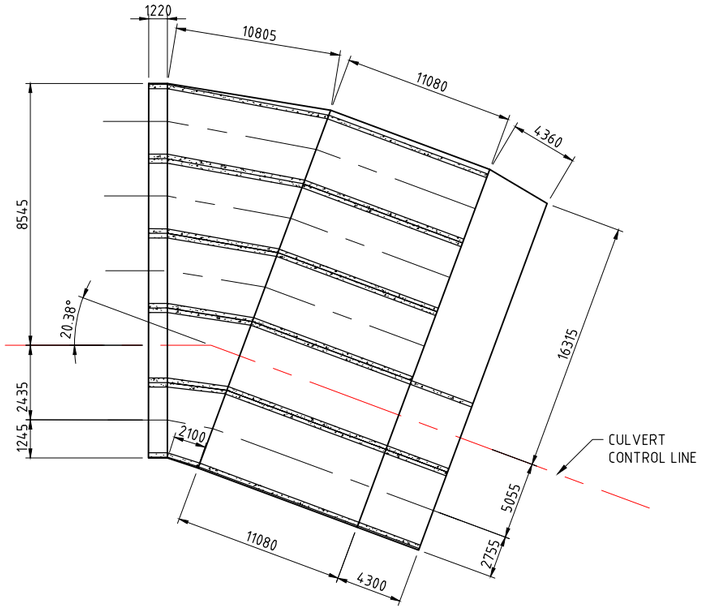
Document Set ID: 8588168
Version: 1, Version Date: 08/01/2025



DETAIL 1/291
SCALE 1:200



PLAN - ROOF SLAB
SCALE 1:200



PLAN - BASE SLAB
SCALE 1:200

SET OUT DATA

SOP NO	EASTING	NORTHING
SOP A	322841.577	5804348.609
SOP B	322842.674	5804349.165
SOP C	322852.981	5804352.410
SOP D	322863.987	5804353.661
SOP E	322868.340	5804353.366
SOP F	322852.620	5804326.795
SOP G	322853.717	5804327.350
SOP H	322855.792	5804327.664
SOP I	322866.799	5804328.912
SOP J	322871.063	5804329.396

City of Port Phillip
Advertised Document
Planning Application No. PDPL/00673/2024
No. of Pages: 55 of 418

NOTES:

1. REFER TO STRUCTURAL DRAWINGS FOR ROOF AND BASE SLAB CONSTRUCTION DETAILS.

SCALE 1:200 (0, 4, 8, 12, 16 SCALE IN m)

NOT FOR CONSTRUCTION

REV	DESCRIPTION	COMPANY	PROJECT OR WO NUMBER	DRAWN	ENG. CHECK	PR. MAN. APP'D	DATE
0	ISSUED FOR TENDER	W4G	D10134	DMcA	KK	MC	16/10/24

MEG250-21-DW-CV-STL-0011-Rev0

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Melbourne Water
D10134 - ELWOOD DIVERSION DRAIN

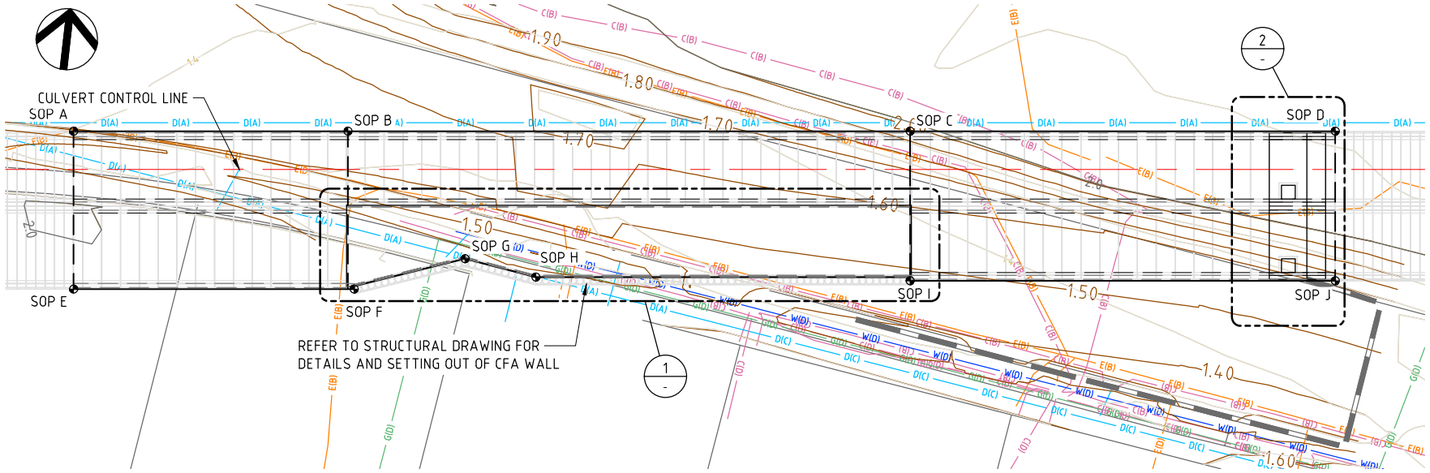
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S.SERGIENKO	M. BUCKLEY	M. CALDECOTT	
DRAFTING CHECK	ENGINEERING REVIEW		
D.McAULIFFE	K. KUHANESAN		

TITLE: ELWOOD DIVERSION DRAIN
CHAMBER AT CH 73.250
DETAILS

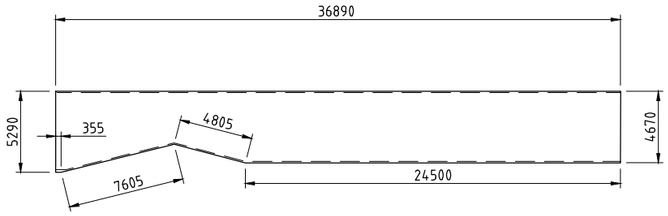
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MELBOURNE WATER CORPORATION
C 4925/05/310 0
CODE | MWC DRAWING NUMBER | REV

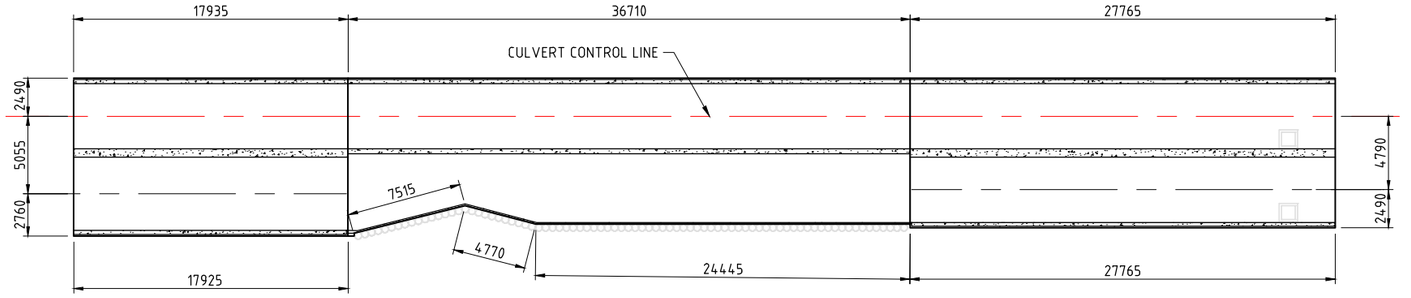
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16 Oct, 2024 - 4.08pm
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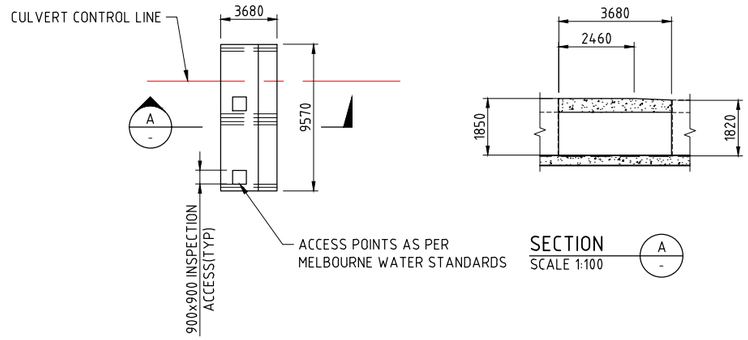
DETAIL 2/292
SCALE 1:200



PLAN - ROOF SLAB 1/-
SCALE 1:200



PLAN - BASE SLAB
SCALE 1:200



SECTION A/-
SCALE 1:100

PLAN - ROOF SLAB 2/-
SCALE 1:200

SET OUT DATA

SOP NO	EASTING	NORTHING
SOP A	322907.786	5804343.938
SOP B	322925.597	5804345.962
SOP C	322962.071	5804350.106
SOP D	322989.658	5804353.240
SOP E	322908.950	5804333.699
SOP F	322927.157	5804335.768
SOP G	322934.134	5804338.543
SOP H	322938.859	5804337.877
SOP I	322963.174	5804340.398
SOP J	322990.762	5804343.533

SCALE 1: 100 — 0 2 4 6 8 — SCALE IN m

SCALE 1: 200 — 0 4 8 12 16 — SCALE IN m

NOTES:

1. REFER TO STRUCTURAL DRAWINGS FOR ROOF AND BASE SLAB CONSTRUCTION DETAILS.

City of Port Phillip
Advertised Document
Planning Application No. PDPL/00673/2024
No. of Pages: 56 of 418

NOT FOR CONSTRUCTION

REV	DESCRIPTION	COMPANY	PROJECT OR WO NUMBER	DRAWN	ENG. CHECK	PR. MAN. APP'D	DATE
0	ISSUED FOR TENDER	W4G	D10134	DMcA	KK	MC	16/10/24

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Melbourne Water
D10134 - ELWOOD DIVERSION DRAIN

DRAFTER	DESIGNER	PROJECT MANAGER APPROVAL	CLIENT REP. APPROVAL
S.SERGIENKO	M. BUCKLEY	M. CALDECOTT	
DRAFTING CHECK	ENGINEERING REVIEW		
D.McAULIFFE	K. KUHANESAN		

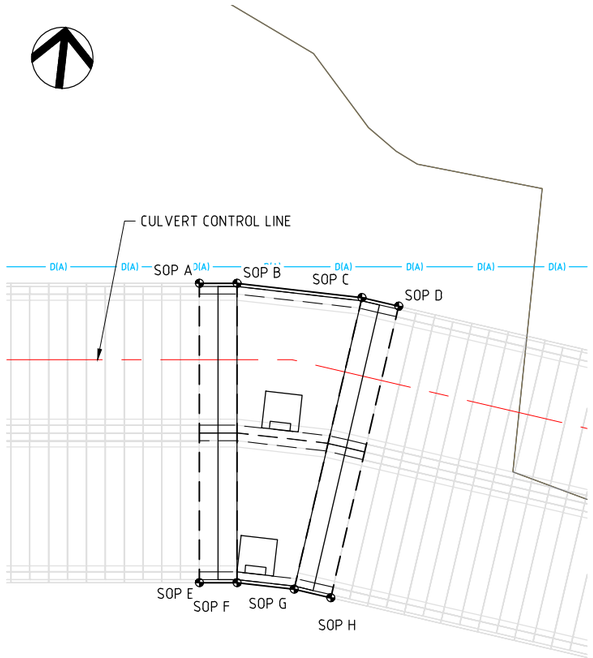
TITLE: ELWOOD DIVERSION DRAIN
CHAMBER AT CH 150.000
DETAILS

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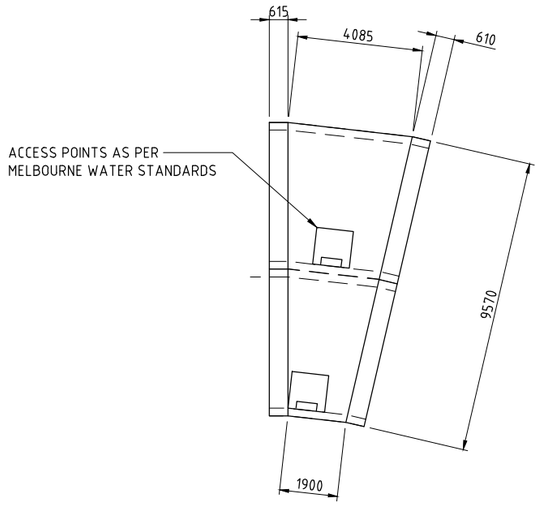
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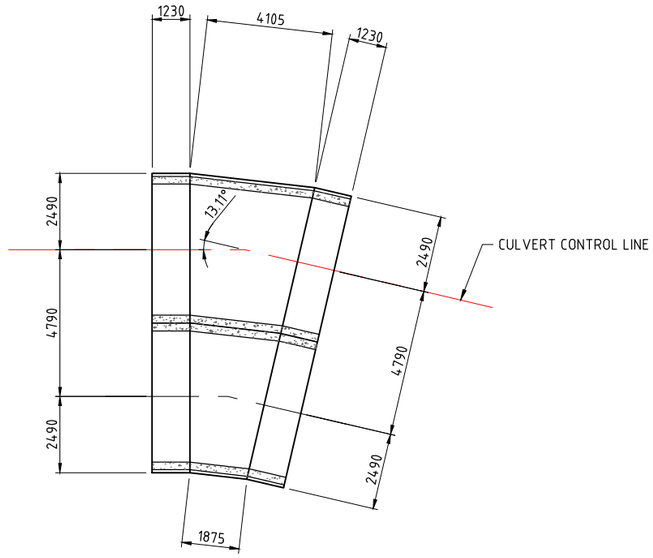
City of Port Phillip
Advertised Document
Planning Application No. PDPL/00673/2024
No. of Pages: 57 of 418



DETAIL 3/293
SCALE 1:100



PLAN - ROOF SLAB
SCALE 1:100



PLAN - BASE SLAB
SCALE 1:100

SET OUT DATA

SOP NO	EASTING	NORTHINNG
SOP A	323180.312	5804374.900
SOP B	323181.534	5804375.039
SOP C	323185.639	5804375.036
SOP D	323186.861	5804374.894
SOP E	323181.415	5804365.193
SOP F	323182.637	5804365.332
SOP G	323184.512	5804365.332
SOP H	323185.733	5804365.190

NOTES:

1. REFER TO STRUCTURAL DRAWINGS FOR ROOF AND BASE SLAB CONSTRUCTION DETAILS.

0 1 2 3 4
SCALE 1: 50 SCALE IN m

NOT FOR CONSTRUCTION

REV	DESCRIPTION	COMPANY	PROJECT OR WO NUMBER	DRAWN	ENG. CHECK	PR. MAN. APP'D	DATE
0	ISSUED FOR TENDER	W4G	D10134	DMcA	KK	MC	16/10/24

MEG250-21-DW-CV-STL-0015-Rev0

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Melbourne Water
D10134 - ELWOOD DIVERSION DRAIN

DRAFTER	DESIGNER	PROJECT MANAGER APPROVAL	CLIENT REP. APPROVAL
S.SERGIENKO	M. BUCKLEY	M. CALDECOTT	
DRAFTING CHECK	ENGINEERING REVIEW		
D.McAULIFFE	K. KUHANESAN		

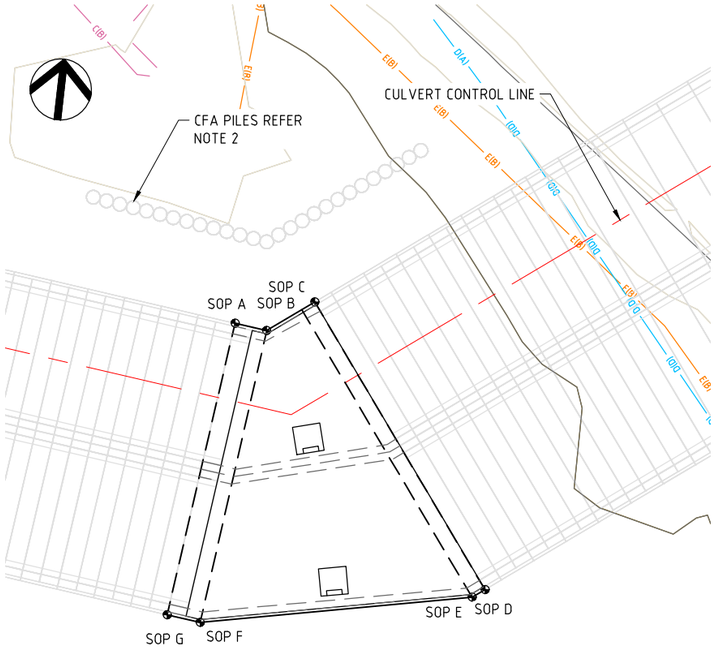
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CHAMBER AT CH 406.032
DETAILS

PROJECT DATUM: GDA 1994 MGA Zone 55
SCALE: 1:100
Original Size: A1

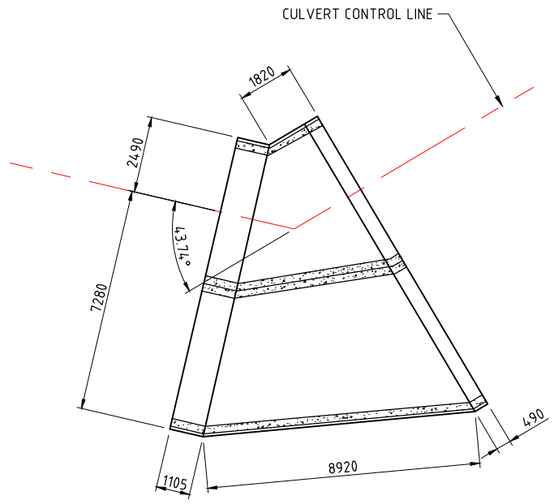
MELBOURNE WATER CORPORATION
CODE: C
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REV: 0

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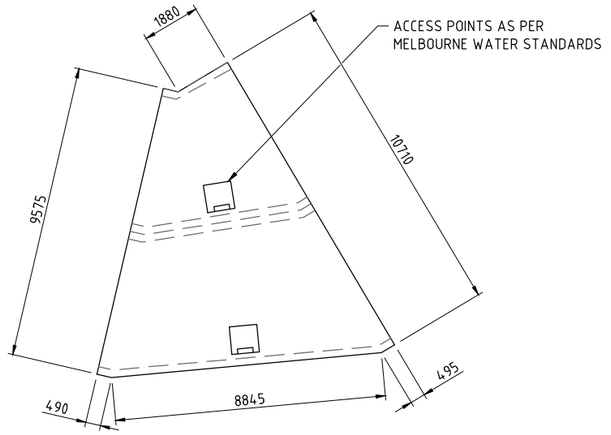
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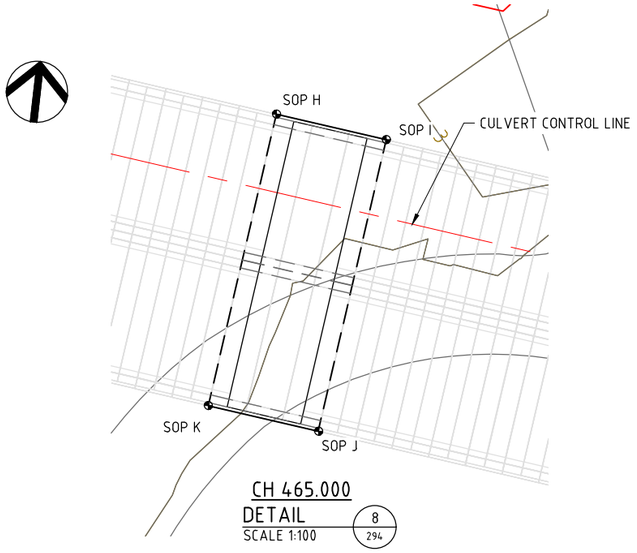
CH 500.059
DETAIL 4
SCALE 1:100 294



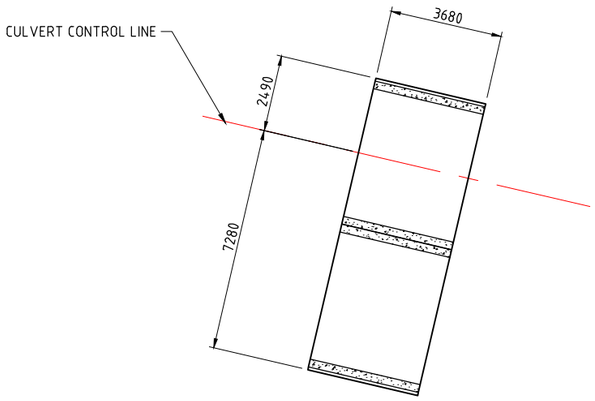
PLAN BASE SLAB
SCALE 1:100



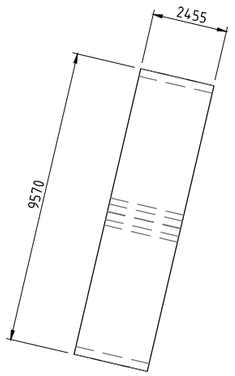
PLAN ROOF SLAB
SCALE 1:100



CH 465.000
DETAIL 8
SCALE 1:100 294



PLAN BASE SLAB
SCALE 1:50



PLAN ROOF SLAB
SCALE 1:100

SET OUT DATA

SOP NO	EASTING	NORTHING
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SOP B	323275.876	5804364.547
SOP C	323277.336	5804365.652
SOP D	323283.919	5804356.952
SOP E	323283.529	5804356.656
SOP F	323274.799	5804354.836
SOP G	323273.701	5804354.964
SOP H	323240.620	5804368.645
SOP I	323244.275	5804368.220
SOP J	323243.158	5804358.514
SOP K	323239.482	5804358.942

NOTES:

1. REFER TO STRUCTURAL DRAWINGS FOR ROOF AND BASE SLAB CONSTRUCTION DETAILS.
2. FOR CFA PILE DETAILS AND SETTING OUT REFER TO STRUCTURAL DRAWINGS.

City of Port Phillip
Advertised Document
Planning Application No. PDPL/00673/2024
No. of Pages: 58 of 418

SCALE 1: 100 — 0 2 4 6 8 — SCALE IN m

NOT FOR CONSTRUCTION

REV	DESCRIPTION	COMPANY	PROJECT OR WO NUMBER	DRAWN	ENG. CHECK	PR. MAN. APP'D	DATE
0	ISSUED FOR TENDER	W4G	D10134	DMcA	KK	MC	16/10/24

MEG250-21-DW-CV-STL-0017-Rev0

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Melbourne Water
D10134 - ELWOOD DIVERSION DRAIN

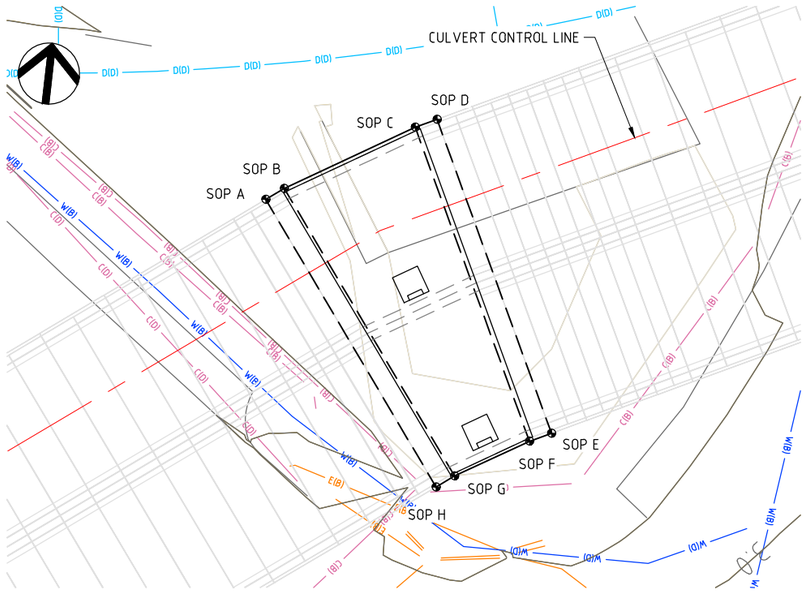
DRAFTER	DESIGNER	PROJECT MANAGER APPROVAL	CLIENT REP. APPROVAL
S.SERGIENKO	M. BUCKLEY	M. CALDECOTT	
DRAFTING CHECK	ENGINEERING REVIEW		
D.McAULIFFE	K. KUHANESAN		

TITLE: ELWOOD DIVERSION DRAIN
CHAMBER AT CH 465.000 AND 500.059
DETAILS

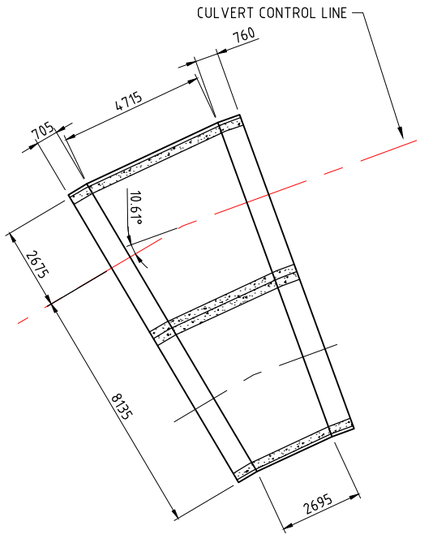
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MELBOURNE WATER CORPORATION
CODE: C
MWC DRAWING NUMBER: 4925/05/316
REV: 0

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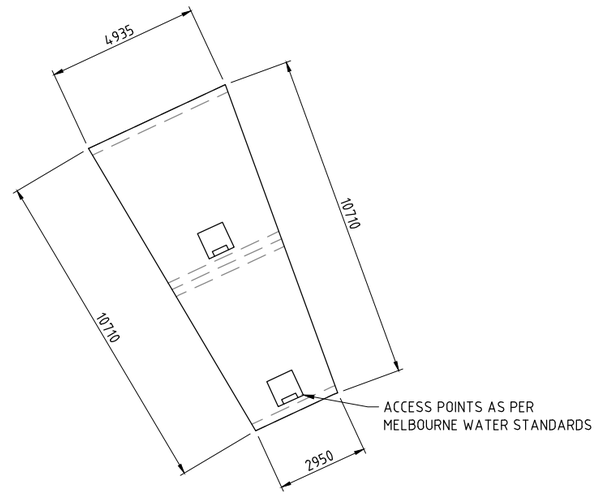
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Version: 1, Version Date: 08/01/2025



DETAIL 5/294
SCALE 1:100



PLAN BASE SLAB
SCALE 1:100



PLAN ROOF SLAB
SCALE 1:100

City of Port Phillip
Advertised Document
Planning Application No. PDPL/00673/2024
No. of Pages: 59 of 418

SET OUT DATA

SOP NO	EASTING	NORTHING
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SOP C	323307.847	5804388.165
SOP D	323308.528	5804388.505
SOP E	323313.397	5804378.742
SOP F	323312.716	5804378.402
SOP G	323310.411	5804376.997
SOP H	323309.849	5804376.573

NOTES:

1. REFER TO STRUCTURAL DRAWINGS FOR ROOF AND BASE SLAB CONSTRUCTION DETAILS.

SCALE 1: 100 SCALE IN m

NOT FOR CONSTRUCTION

REV	DESCRIPTION	COMPANY	PROJECT OR WO NUMBER	DRAWN	ENG. CHECK	PR. MAN. APP'D	DATE
0	ISSUED FOR TENDER	W4G	D10134	DMcA	KK	MC	16/10/24

MEG250-21-DW-CV-STL-0019-Rev0

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Melbourne Water
D10134 - ELWOOD DIVERSION DRAIN

DRAFTER	DESIGNER	PROJECT MANAGER APPROVAL	CLIENT REP. APPROVAL
S.SERGIENKO	M. BUCKLEY	M. CALDECOTT	
DRAFTING CHECK	ENGINEERING REVIEW		
D.McAULIFFE	K. KUHANESAN		

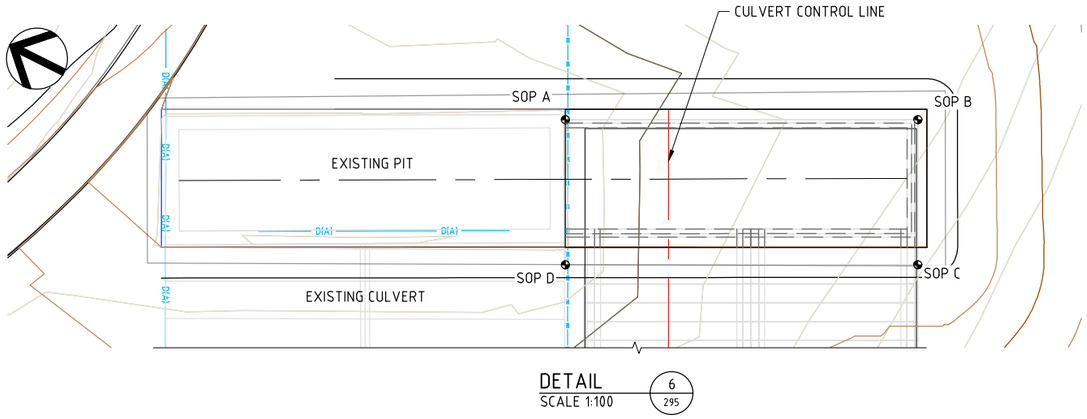
TITLE: ELWOOD DIVERSION DRAIN
CHAMBER AT CH 537.807
DETAILS

PROJECT DATUM: GDA 1994 MGA Zone 55
SCALE: 1:100
Original Size: A1

MELBOURNE WATER CORPORATION
C | 4925/05/318 | 0
CODE | MWC DRAWING NUMBER | REV

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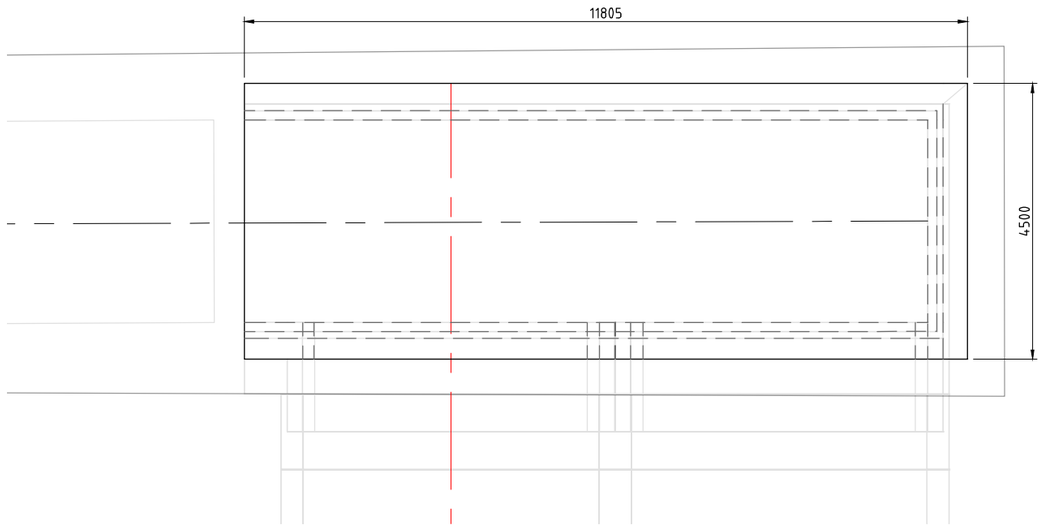


DETAIL 6/295
SCALE 1:100

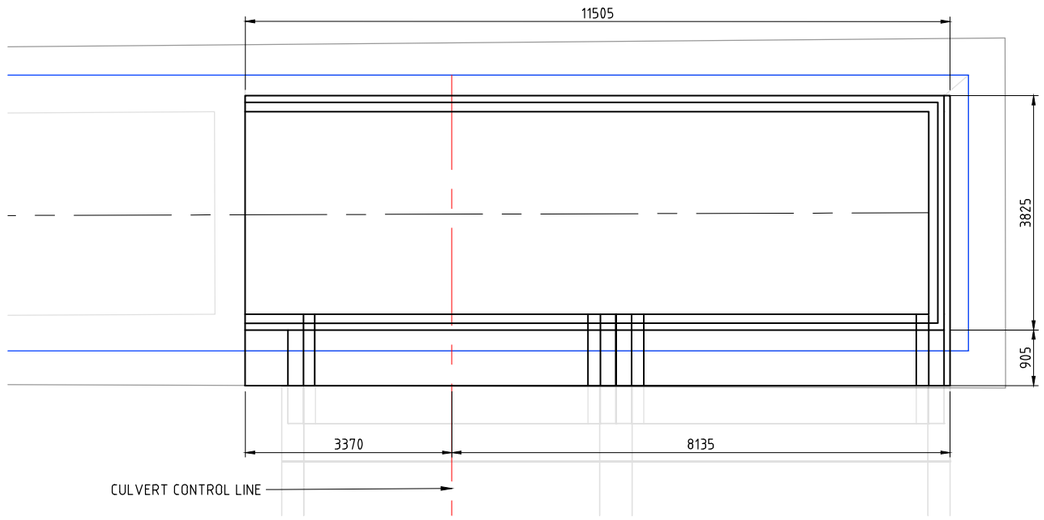
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SOP D	323396.193	5804432.893

City of Port Phillip
Advertised Document
Planning Application No. PDPL/00673/2024
No. of Pages: 60 of 418



PLAN ROOF SLAB
SCALE 1:50



PLAN BASE SLAB
SCALE 1:50

NOTES:

1. REFER TO STRUCTURAL DRAWINGS FOR ROOF AND BASE SLAB CONSTRUCTION DETAILS.

SCALE 1: 100 — SCALE IN m (0 2 4 6 8)

SCALE 1: 50 — SCALE IN m (0 1 2 3 4)

NOT FOR CONSTRUCTION

REV	DESCRIPTION	COMPANY	PROJECT OR WO NUMBER	DRAWN	ENG. CHECK	PR. MAN. APP'D	DATE
0	ISSUED FOR TENDER	W4G	D10134	DMcA	KK	MC	16/10/24

MEG250-21-DW-CV-STL-0021-Rev0

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Melbourne Water
D10134 - ELWOOD DIVERSION DRAIN

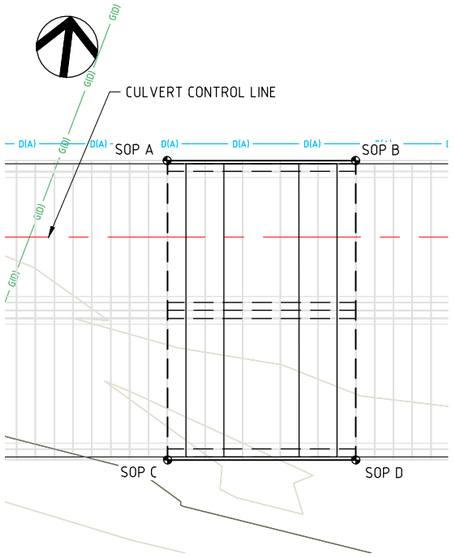
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S.SERGIENKO	M. BUCKLEY	M. CALDECOTT	
DRAFTING CHECK	ENGINEERING REVIEW		
D.McAULIFFE	K. KUHANESAN		

TITLE: ELWOOD DIVERSION DRAIN
INLET CHAMBER
DETAILS

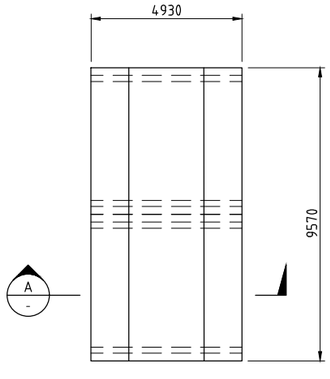
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MELBOURNE WATER CORPORATION
CODE: C
MWC DRAWING NUMBER: 4925/05/320
REV: 0

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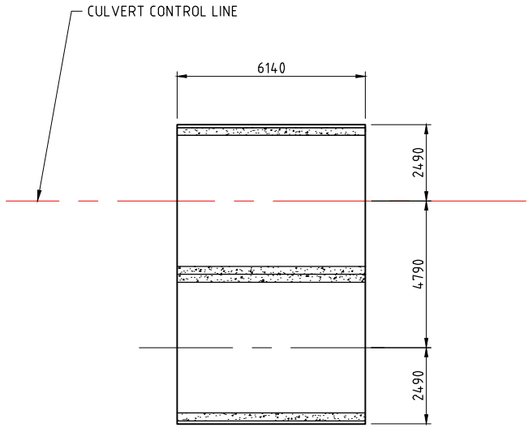
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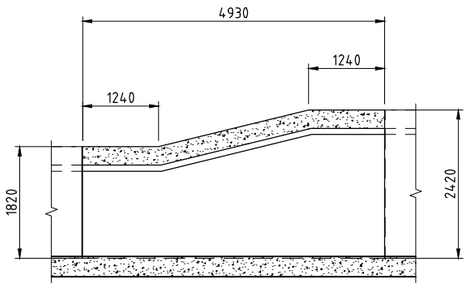
DETAIL 7/292
SCALE 1:100



PLAN - ROOF SLAB
SCALE 1:100



PLAN - BASE SLAB
SCALE 1:100



SECTION A/-
SCALE 1:50

City of Port Phillip
Advertised Document
Planning Application No. PDPL/00673/2024
No. of Pages: 61 of 418

SET OUT DATA

SOP NO	EASTING	NORTHING
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SOP B	323010.435	5804355.600
SOP C	323005.438	5804345.200
SOP D	323011.539	5804345.893

NOTES:

1. REFER TO STRUCTURAL DRAWINGS FOR ROOF AND BASE SLAB CONSTRUCTION DETAILS.

NOT FOR CONSTRUCTION

SCALE 1: 50 — SCALE IN m (0 1 2 3 4)

SCALE 1: 100 — SCALE IN m (0 2 4 6 8)

REV	DESCRIPTION	COMPANY	PROJECT OR WO NUMBER	DRAWN	ENG. CHECK	PR. MAN. APP'D	DATE
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Melbourne Water
D10134 - ELWOOD DIVERSION DRAIN

DRAFTER	DESIGNER	PROJECT MANAGER APPROVAL	CLIENT REP. APPROVAL
I. SERGIENKO	M. BUCKLEY	M. CALDECOTT	
DRAFTING CHECK	ENGINEERING REVIEW		
D.McAULIFFE	K. KUHANESAN		

TITLE: ELWOOD DIVERSION DRAIN
CHAMBER AT CH 230.000
DETAILS

PROJECT DATUM: GDA 1994 MGA Zone 55
SCALE: 1:100
Original Size: A1

MELBOURNE WATER CORPORATION
C — 4925/05/322 — 0
CODE — MWC DRAWING NUMBER — REV

Last Edited: K155626 16 Oct, 2024 - 4:02pm Cad File:O:\G&I\CAD\Projects\MEG250\21\Drawings\Civil\4925_05_322.dwg

Document Set ID: 8588168
Version: 1, Version Date: 08/01/2025

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16 Oct, 2024 - 4:55pm
Last Edited: KY55626

EXISTING ELWOOD DIVERSION DRAIN
ORMOND ESPLANADE
COUNCIL WORKS BY OTHERS
CONSTRUCTION BOUNDARY
~80m² GRAVEL FOOTPATH TO BE REINSTATED AS PER COPP'S STANDARD DETAIL ON 'CPP3107' ON DRAWING 'PERMEABLE PAVEMENT PEBBLE MIX PAVING'
~12m OF BLUESTONE KERB TO BE REINSTATED AS PER COPP'S STANDARD DETAIL 'CPP1203' ON DRAWING 'BLUESTONE KERBS'
NO STANDING SIGN
DRIVEWAY/ENTRANCE TO 419 ORMOND ESPLANADE TO BE REINSTATED AS PER COPP'S STANDARD DETAIL ON 'CPP1501' ON DRAWING 'CONCRETE VEHICLE CROSSING'
~35m² OF CONCRETE FOOTPATH & NATURE STRIP EACH TO BE REINSTATED AS PER COPP'S STANDARD DETAIL 'CPP1302' ON DRAWING 'FOOTPATH PAVEMENT CONCRETE'
SPEED LIMIT SIGN
TRAFFIC LIGHT W PEDESTRIAN CROSSING TO BE REINSTATED AS PER COPP'S DETAIL 'CPP3515' ON DRAWING MULTI-USE POLE
ELECTRICITY POLE
EXISTING HOBSONS BAY MH TO BE DECOMMISSIONED AS PER DETAILS ON 'MEG250-21-DW-ST-PLC-0050 & MEG250-21-DW-ST-PLC-0051' ON DRAWING 'HOBSONS BAY SEWER ACCESS REMOVAL DETAILS'
EXISTING ELECTRICITY PIT
CLEARWAY SIGN
ELECTRICITY PIT
ELECTRICAL SUBSTATION
~90m OF CONCRETE KERB TO BE REINSTATED
VICROADS SIGNALS BOX TO BE REINSTATED AS PER, ' TCS 016:2023 TRAFFIC SIGNAL CONTROLLERS SUPPLY AND INSTALLATION' GUIDE
EXISTING ELECTRICITY PIT
ELECTRICITY POLE(POTENTIALLY IMPACTED)
ST KILDA STREET
~60m OF WOODEN BOLLARDS TO BE REINSTATED
ELECTRICITY POLE
PARKING SIGN/RUBBISH BIN STATION
BUS ZONE SIGN
PARK ENTRANCE BIKE RAMP
~1.5m OF BLUESTONE KERB, & 3.5m² NATURE STRIP & FOOTPATH TO BE REINSTATED AS PER BAYSIDE CITY COUNCIL'S STANDARD DETAIL 'BCC302.B' ON DRAWING 'BLUE STONE KERB AND CHANNEL PROFILES' 'BCC202' ON DRAWING 'CONCRETE FOOTPATH CONSTRUCTION'
EXISTING GRATED ENTRY PIT
CULVERT CONTROL LINE
PROPERTY LOT ENTRANCE DRIVEWAY TO BE REINSTATED (460 ST KILDA ST) AS PER BAYSIDE COUNCIL'S DETAIL 'BCC401C' ON DRAWING VEHICLE CROSSINGS IN STREETS WITH NATURE STRIPS
NEW ELWOOD DIVERSION DRAIN
EXISTING BUS STOP
FIRE HYDRANT
APPROX. 6m PRIVATE PROPERTY WALL TO BE REINSTATED
EXISTING MH
ELECTRICITY POLE (TO BE REMOVED PRIOR TO CONSTRUCTION)
~27m OF BLUESTONE KERB TO BE REINSTATED AS PER BAYSIDE CITY COUNCIL'S STANDARD DETAIL 'BCC302.B' ON DRAWING 'BLUE STONE KERB AND CHANNEL PROFILES'
~40m² OF CONCRETE FOOTPATH & NATURE STRIP EACH TO BE REINSTATED AS PER BAYSIDE CITY COUNCIL'S STANDARD DETAIL 'BCC202' ON DRAWING 'CONCRETE FOOTPATH CONSTRUCTION'
~50m OF CONCRETE KERB TO BE REINSTATED AS PER COPP'S STANDARD DETAIL 'CPP1201' ON DRAWING 'CONCRETE KERBS'
PEDESTRIAN CROSSING RAMP
EXISTING ELECTRICITY PIT
ELECTRICITY POLE
~60m² CONCRETE MEDIAN STRIP TO BE REINSTATED ALONG WITH PEDESTRIAN CROSSING RAMP AS PER BAYSIDE COUNCIL'S STANDARD DETAIL 'BCC202' ON DRAWING 'CONCRETE FOOTPATH CONSTRUCTION' (TO BE AGREED WITH COPP COUNCIL)
KEEP LEFT SIGN
PEDESTRIAN CROSSING RAMP TO BE REINSTATED AS PER COPP'S DETAILS ON 'CPP1504' OF DRAWING 'CROSSING ASPHALT PAVING WITH NO EDGING'
TRAFFIC LIGHT W PEDESTRIAN CROSSING TO BE REINSTATED AS PER COPP'S DETAIL 'CPP3515' ON DRAWING MULTI-USE POLE
TRAFFIC LIGHT W PEDESTRIAN CROSSING TO BE REINSTATED AS PER COPP'S DETAIL 'CPP3515' ON DRAWING MULTI-USE POLE

0 5 10 15 20
SCALE 1: 250 SCALE IN m

PLAN
SCALE 1:250

NOT FOR CONSTRUCTION

City of Port Phillip
Advertised Document
Planning Application No. PDPL/00673/2024
No. of Pages: 62 of 418

REV	DESCRIPTION	COMPANY	PROJECT OR WO NUMBER	DRAWN	ENG. CHECK	PR. MAN. APP'D	DATE
0	ISSUED FOR TENDER	W4G	D10134	DMcA	KK	MC	16/10/24

MEG250-21-DW-CV-GAR-0040-Rev0

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Melbourne Water
D10134 - ELWOOD DIVERSION DRAIN

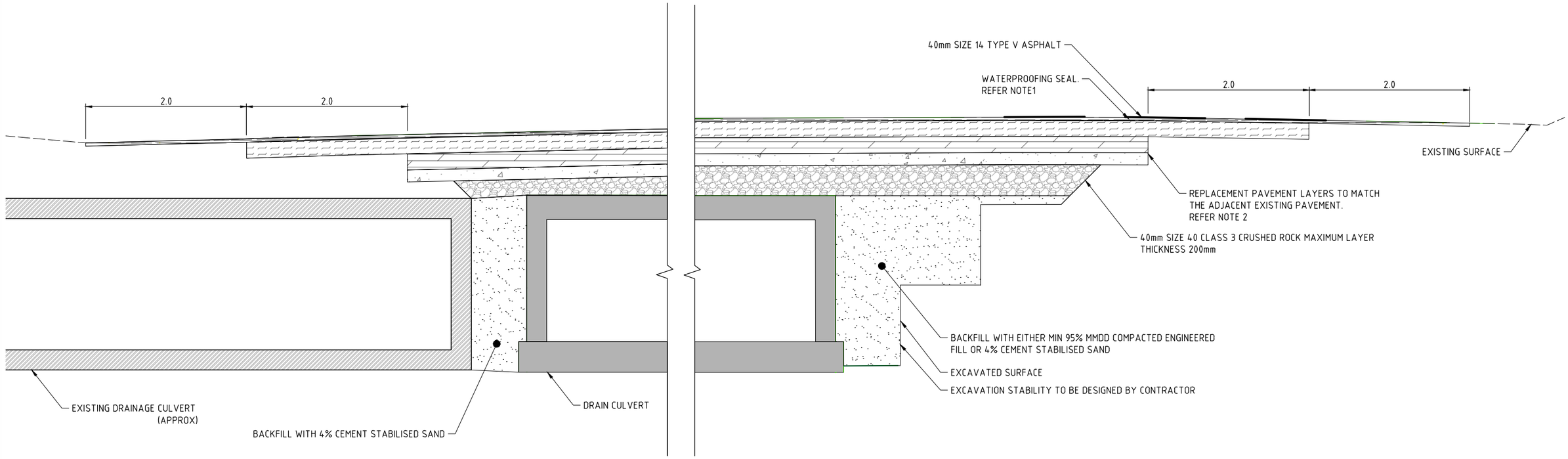
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S.SERGIENKO	M. BUCKLEY	M. CALDECOTT	
DRAFTING CHECK	ENGINEERING REVIEW		
D.McAULIFFE	K. KUHANESAN		

TITLE
ELWOOD DIVERSION DRAIN
ST KILDA ROAD REINSTATEMENT
GENERAL ARRANGEMENT

PROJECT DATUM GDA 1994 MGA Zone 55
SCALE 1:100
Original Size A1

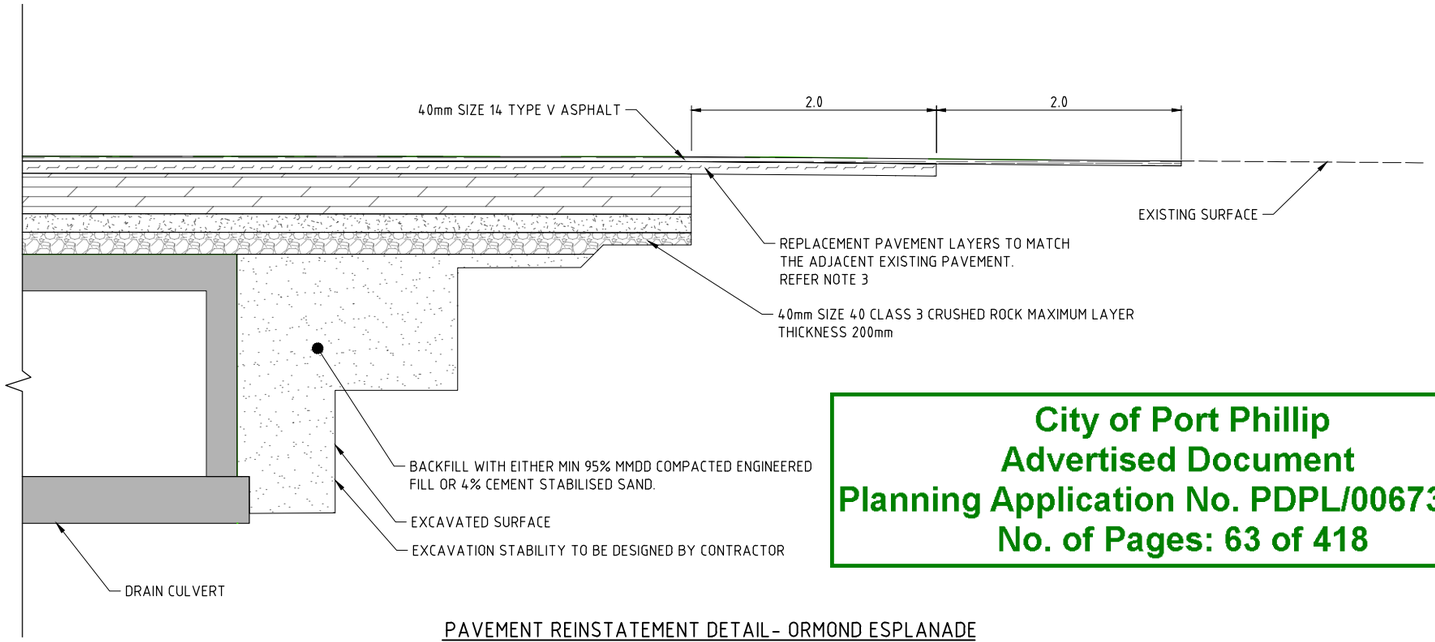
MELBOURNE WATER CORPORATION
C | 4925/05/340 | 0
CODE | MWC DRAWING NUMBER | REV

Document Set ID: 8588168
Version: 1, Version Date: 08/01/2025



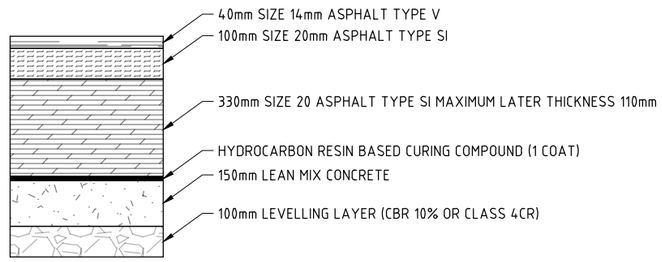
PAVEMENT REINSTATEMENT DETAIL-ST KILDA STREET

SCALE 1:25



PAVEMENT REINSTATEMENT DETAIL- ORMOND ESPLANADE

SCALE 1:25



ASSUMED PAVEMENT COMPOSITION FOR ORMOND ESPLANADE REINSTATEMENT

SCALE 1:10

City of Port Phillip
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NOTES:

1. WATERPROOFING SEAL
   BITUMEN EMULSION PRIMERSEAL, SIZE 7mm AGGREGATE.
   EMULSION TO NOT EXCEED 60% BITUMEN CONTENT.
   APPLIED AT A MINIMUM RATE OF 0.9 L/m^2 OF RESIDUAL BINDER
2. PAVEMENT REINSTATEMENT DETAIL BASED ON CITY OF PORT PHILLIP LOCAL ROAD ASPHALT PAVEMENT DRAWING CPP1101. REINSTATEMENT IS TO MATCH THE EXISTING PAVEMENT OF ST. KILDA STREET.
3. THE PAVEMENT REINSTATEMENT DETAIL FOR ORMOND ESPLANADE IS BASED ON THE ASSUMED PAVEMENT COMPOSITION. REINSTATEMENT IS TO MATCH THE EXISTING PAVEMENT OF ORMOND ESPLANADE.

SCALE 1: 25 — 0, 0.5, 1, 1.5, 2 — SCALE IN m
SCALE 1: 10 — 0, 0.2, 0.4, 0.6, 0.8 — SCALE IN m

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REV	DESCRIPTION	COMPANY	PROJECT OR WO NUMBER	DRAWN	ENG. CHECK	PR. MAN. APP'D	DATE
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D10134 - ELWOOD DIVERSION DRAIN

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S.SERGIENKO	M. BUCKLEY	M. CALDECOTT	
DRAFTING CHECK	ENGINEERING REVIEW		
D.McAULIFFE	K. KUHANESAN		

TITLE: ELWOOD DIVERSION DRAIN
PAVEMENT REINSTATEMENT
DETAILS

PROJECT DATUM: GDA 1994 MGA Zone 55
SCALE: 1:100
Original Size: A1

MELBOURNE WATER CORPORATION

CODE	MWC DRAWING NUMBER	REV
C	4925/05/345	0

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Last Edited: KI55626 16 Oct, 2024 - 4:03pm

Document Set ID: 8588168
Version: 1, Version Date: 08/01/2025

13m OF TLB600 TRUCAST PRECAST RETAINING WALL. TOP SET FLUSH WITH FOOTPATH. HANDRAIL FIXED TO TOP OF RAISED SECTION OF FOOTPATH IN ACCORDANCE WITH MELBOURNE WATER STANDARD DETAIL ON CORP AM S021.

SIGNAGE TO BE ERECTED TO WARN PUBLIC THAT THEY ARE WALKING IN A FORMAL FLOOD RETARDING BASIN AND FOOTPATH IS A SPILLWAY. EXACT WORDING TO BE AGREED WITH MELBOURNE WATER

ST KILDA STREET

EXISTING ELWOOD DIVERSION DRAIN

FOOTPATH MODIFICATION CONTROL LINE. REFER 4925/05/351 FOR LONGITUDINAL SECTION. FOOTPATH REINSTATED IN LINE WITH ACCORDANCE WITH CoB DETAIL ON DRAWING BCC201

INLET PIT. REFER 4925/05/154 FOR DETAILS

CONCRETE SLAB 600mm WIDE TO MW DETAILS

CULVERT CONTROL LINE

NEW ELWOOD DIVERSION DRAIN

EXISTING EMBANKMENT TO BE REINSTATED IN LINE WITH REQUIREMENTS OF RETARDING BASIN DETAIL SHOWN ON DRAWING 4920/06/003

LEGEND:

- FOOTPATH TO BE RAISED
- FOOTPATH TO BE LOWERED
- CONTOURS EXISTING
- CONTOURS DESIGN
- FLOW DIRECTION
- CONSTRUCTION BOUNDARY

PLAN
SCALE 1:200

SCALE 1: 200 — SCALE IN m

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REV	DESCRIPTION	COMPANY	PROJECT OR WO NUMBER	DRAWN	ENG. CHECK	PR. MAN. APP'D	DATE
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D10134 - ELWOOD DIVERSION DRAIN

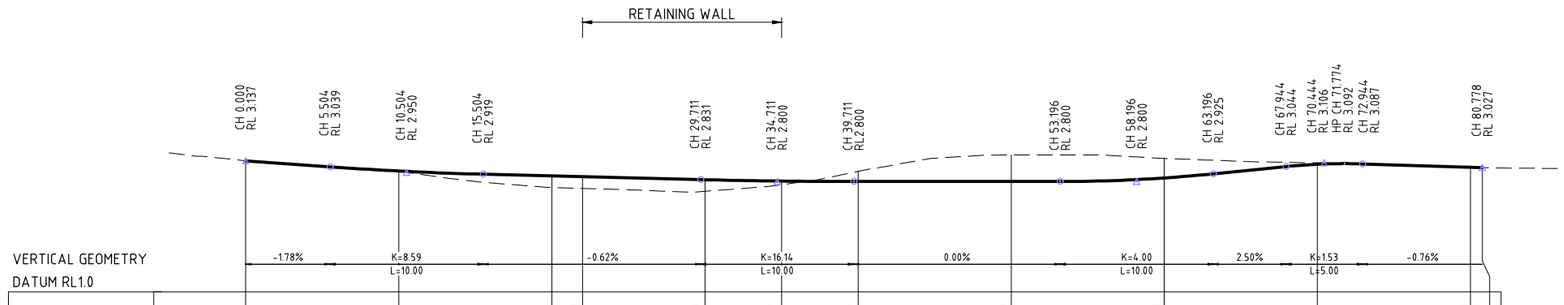
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S.SERGIENKO	M. BUCKLEY	M. CALDECOTT	
DRAFTING CHECK	ENGINEERING REVIEW		
D.McAULIFFE	K. KUHANESAN		

TITLE
ELWOOD DIVERSION DRAIN
INLET PIT EARTHWORKS REINSTATEMENT
GENERAL ARRANGEMENT

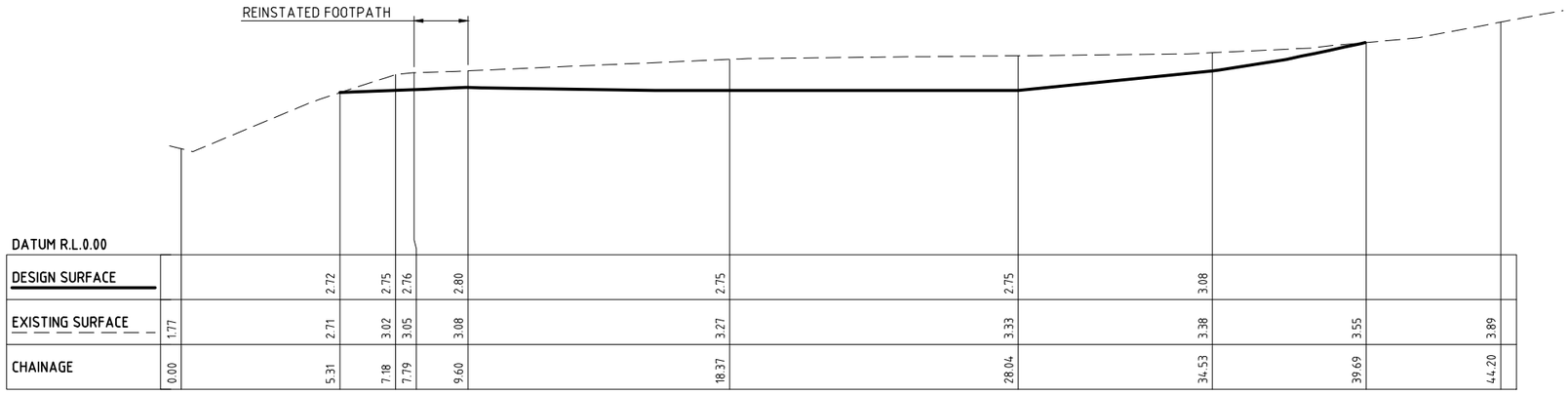
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SCALE 1:100		CODE	MWC DRAWING NUMBER	REV

Document Set ID: 8588168
Version: 1, Version Date: 08/01/2025

City of Port Phillip
Advertised Document
Planning Application No. PDPL/00673/2024
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FOOTPATH REINSTATEMENT CONTROL LINE LONGITUDINAL SECTION
SCALE 1:200H 1:50V



SECTION A
SCALE 1:100H 1:50V

SCALE 1: 50 — 0 1 2 3 4 SCALE IN m
SCALE 1: 100 — 0 2 4 6 8 SCALE IN m
SCALE 1: 200 — 0 4 8 12 16 SCALE IN m

NOT FOR CONSTRUCTION

REV	DESCRIPTION	COMPANY	PROJECT OR WO NUMBER	DRAWN	ENG. CHECK	PR. MAN. APP'D	DATE
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DRAFTER	DESIGNER	PROJECT MANAGER APPROVAL	CLIENT REP. APPROVAL
S. SERGIENKO	M. BUCKLEY	M. CALDECOTT	
DRAFTING CHECK	ENGINEERING REVIEW		
D.McAULIFFE	K. KUHANESAN		

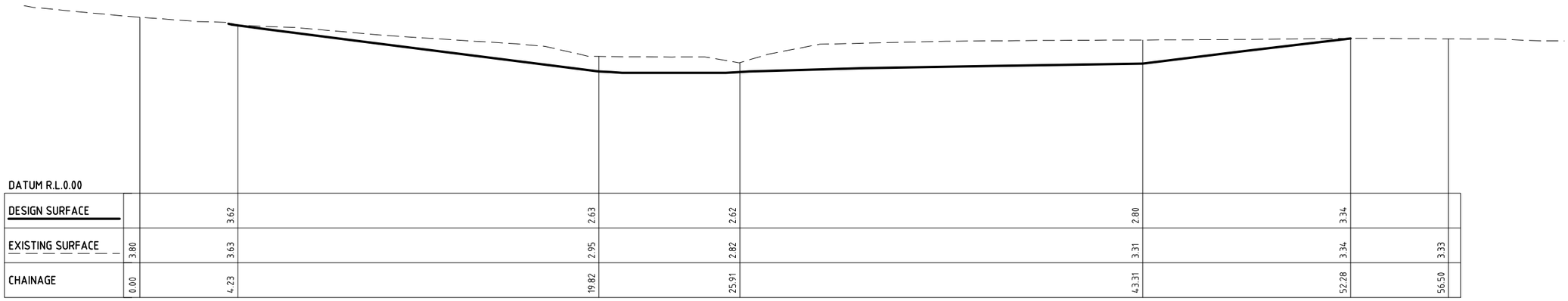
TITLE
ELWOOD DIVERSION DRAIN
INLET PIT EARTHWORKS REINSTATEMENT
SECTIONS, SHEET 1 OF 2

PROJECT DATUM GDA 1994 MGA Zone 55
SCALE AS SHOWN
Original Size A1

MELBOURNE WATER CORPORATION
C 4925/05/351 0
CODE MWC DRAWING NUMBER REV

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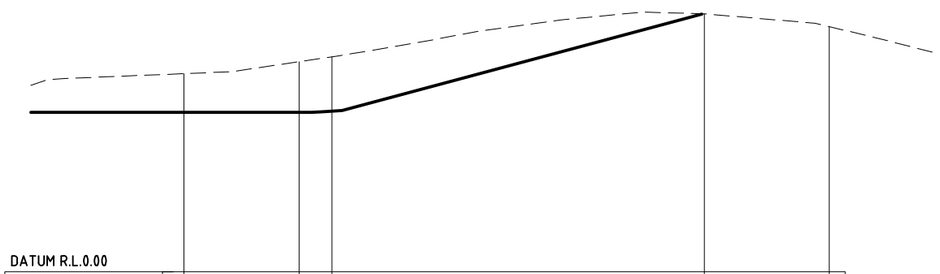
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DATUM R.L.0.00												
DESIGN SURFACE		3.62		2.63		2.62		2.80		3.34		
EXISTING SURFACE	3.80	3.63		2.95		2.82		3.31		3.34		3.33
CHAINAGE	0.00	4.23		19.82		25.91		43.31		52.28		56.50

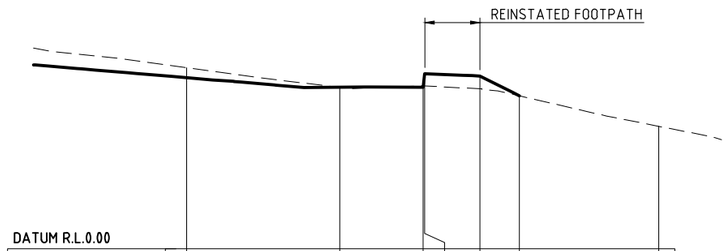
SECTION B
SCALE 1:100H 1:50V

City of Port Phillip
Advertised Document
Planning Application No. PDPL/00673/2024
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DATUM R.L.0.00							
DESIGN SURFACE	2.60	2.60	2.62				
EXISTING SURFACE	3.23	3.43	3.51		4.21	4.00	
CHAINAGE	0.00	3.76	4.83		17.00	21.08	

SECTION C
SCALE 1:100H 1:50V



DATUM R.L.0.00								
DESIGN SURFACE	2.79	2.64	2.63	2.84	2.82	2.50		
EXISTING SURFACE	2.95	2.63	2.66	2.66	2.61	2.49	2.00	
CHAINAGE	0.00	5.00	7.72	7.77	9.57	10.87	15.42	

SECTION D
SCALE 1:100H 1:50V

0 1 2 3 4
SCALE 1: 50 SCALE IN m

0 2 4 6 8
SCALE 1: 100 SCALE IN m

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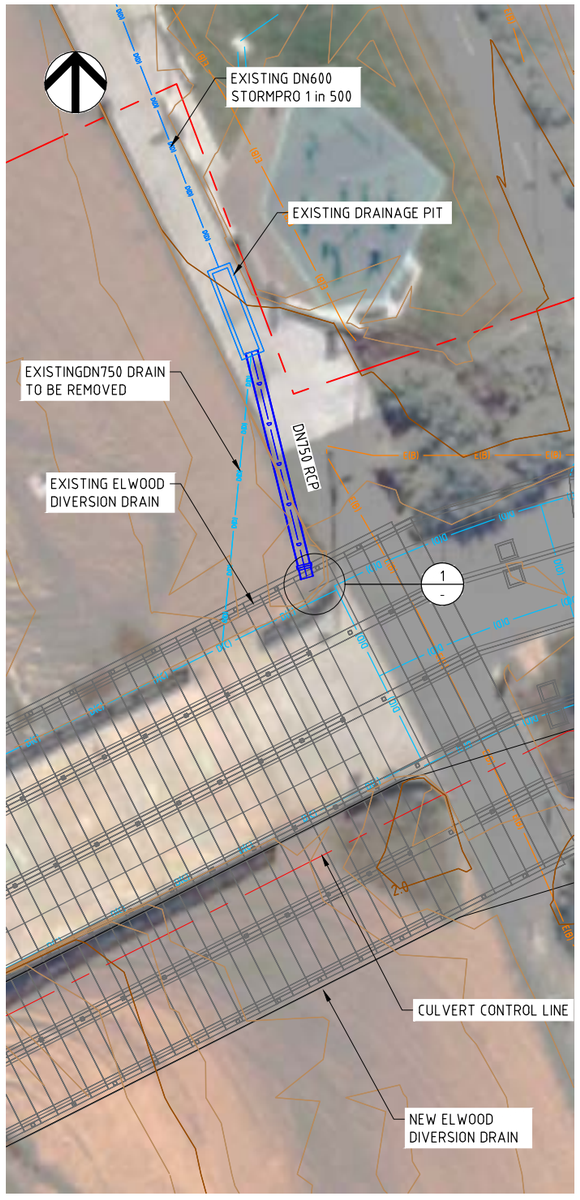
Melbourne Water
D10134 - ELWOOD DIVERSION DRAIN

DRAFTER	DESIGNER	PROJECT MANAGER APPROVAL	CLIENT REP. APPROVAL
S. SERGIENKO	M. BUCKLEY	M. CALDECOTT	
DRAFTING CHECK	ENGINEERING REVIEW		
D.McAULIFFE	K. KUHANESAN		

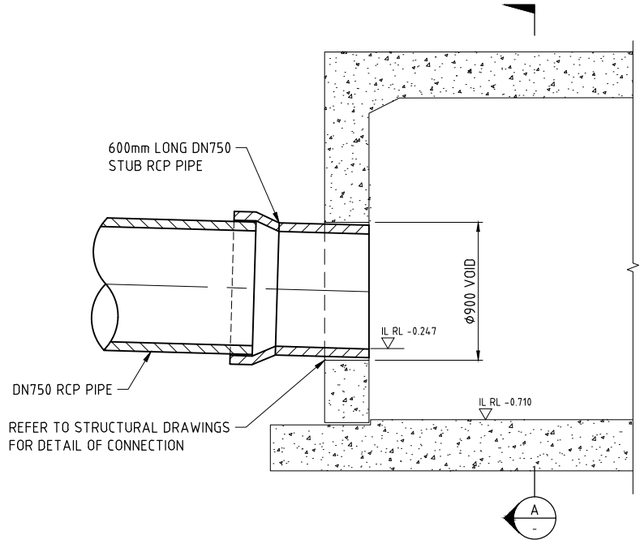
TITLE
ELWOOD DIVERSION DRAIN
INLET PIT EARTHWORKS REINSTATEMENT
SECTIONS, SHEET 2 OF 2

PROJECT DATUM	Original Size	MELBOURNE WATER CORPORATION	
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SCALE AS SHOWN		CODE MWC DRAWING NUMBER	REV

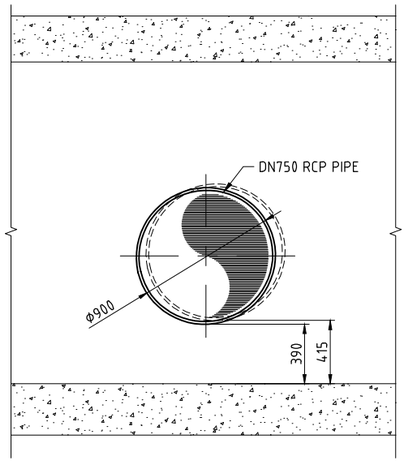
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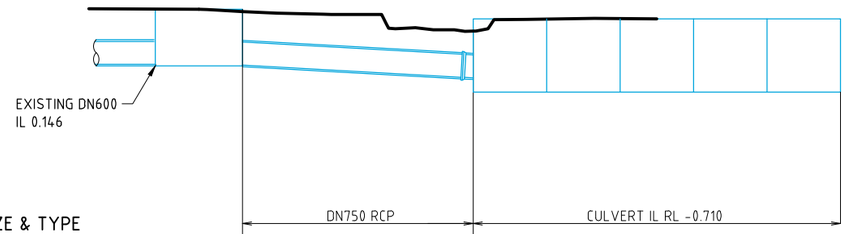
PLAN
SCALE 1:200



DETAIL 1
SCALE 1:20



SECTION A
SCALE 1:20



PIPE SIZE & TYPE		DN750 RCP	
SLOPE (1 IN X)		35.7	
Datum R.L.		-7.0	
DEPTH TO INVERT	1.990	1.815	1.927
INVERT LEVEL		0.175	-0.247
EXISTING SURFACE			1.680
CHAINAGE		14.845	15.071

15.071

DN750 RCP DRAIN LONGITUDINAL SECTION
SCALE 1:200 H, 1:100 V

SCALE 1: 20 — 0 0.4 0.8 1.2 1.6 — SCALE IN m
SCALE 1: 100 — 0 2 4 6 8 — SCALE IN m
SCALE 1: 200 — 0 4 8 12 16 — SCALE IN m

City of Port Phillip
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Planning Application No. PDPL/00673/2024
No. of Pages: 67 of 418

NOT FOR CONSTRUCTION

REV	DESCRIPTION	COMPANY	PROJECT OR WO NUMBER	DRAWN	ENG. CHECK	PR. MAN. APP'D	DATE
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Melbourne Water
D10134 - ELWOOD DIVERSION DRAIN

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S.SERGIENKO	M. BUCKLEY	M. CALDECOTT	
DRAFTING CHECK	ENGINEERING REVIEW		
D.McAULIFFE	K. KUHANESAN		

TITLE
ELWOOD DIVERSION DRAIN
OUTLET DN750 DRAINAGE PIPE REINSTATEMENT
GENERAL ARRANGEMENT

PROJECT DATUM	Original Size	MELBOURNE WATER CORPORATION	
GDA 1994 MGA Zone 55	A1	C 4925/05/355	0
SCALE 1:100		CODE MWC DRAWING NUMBER	REV

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Appendix B: Approved PAHT

City of Port Phillip
Advertised Document
Planning Application No. PDPL/00673/2024
No. of Pages: 68 of 418

Document Set ID: 8588168
Version: 1, Version Date: 08/01/2025

Form to assist compliance with Regulation 77 of the Aboriginal Heritage Regulations 2018

Application for Certification of a Preliminary Aboriginal Heritage Test for the purposes of the *Aboriginal Heritage Act 2006*

This form specifies the format in which an application should be prepared when a person is seeking certification of a preliminary Aboriginal heritage test under the *Aboriginal Heritage Act 2006* ('Act'). Attach additional sheets where further space is required. This form may be used with a TAX INVOICE (if applicable) when fully completed and payment is made. Refer to the Australian Taxation Office website for information on the requirements of tax invoices. The prescribed fee* for this evaluation is:

PAHT Name: _Elsternwick Main Drain Redevelopment_ **Prescribed Fee $** 706.41

SECTION 1 – Applicant information

Name of applicant: _Peter Clark

Business name: _Melbourne Water

Postal address: _990 La Trobe Street, Docklands Victoria 3008

Telephone number: _03 9679 7502 Fax number: ___

Email address: _peter.clark@melbournewater.com.au ABN (if any): ___81 945 386 953

I certify that, to the best of my knowledge and belief, the information supplied in this application is correct and complete. I agree to indemnify the Secretary, the Minister and the Crown against all claims, damages, costs, liabilities or loss including in relation to all actions, claims or demands which may be made in connection with the certification of any preliminary Aboriginal heritage test as a result of this application.

Signed: DocuSigned by: Peter Clark E84120902B3419... Date: 26 / 04 / 2022

[APPLICANT NAME]

OUTCOMES

TO BE COMPLETED BY THE APPLICANT

	Yes	No
Is a cultural heritage management plan required by the Aboriginal Heritage Regulations 2018?	☐	✓
Is any Aboriginal cultural heritage present in the activity area?	☐	✓
Is it likely the activity will impact any Aboriginal cultural heritage?	☐	✓
Is an authorisation to harm Aboriginal cultural heritage needed to allow the activity to proceed in its current form?	☐	✓

CERTIFICATION

TO BE COMPLETED BY THE SECRETARY (OR DELEGATE)

	Yes	No
I have considered the preliminary Aboriginal heritage test, and I am satisfied that the preliminary Aboriginal heritage test has been prepared in accordance with the prescribed form for the purposes of section 49B of the *Aboriginal Heritage Act 2006* and Schedule 6 of the Aboriginal Heritage Regulations 2018.	✓	☐

Acting under authority delegated to me by the Secretary, Department of Premier and Cabinet, and pursuant to section 49C(2) of the *Aboriginal Heritage Act 2006*, I hereby certify / refuse to certify this preliminary Aboriginal heritage test:

Signed: ..... PAHT Number: 295

Name: HARRY WEBBER

Title: DIRECTOR HERITAGE SERVICES

Dated: 2 / 5 / 2022

Compliance with this certified Preliminary Aboriginal Heritage Test is mandatory should the proposed activity occur. Officers from the Department of Premier and Cabinet may attend the subject land to monitor compliance with the *Aboriginal Heritage Act 2006*.

It is an offence under section 27 and 28 of the *Aboriginal Heritage Act 2006* to do an act that harms Aboriginal cultural heritage.

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** refer to regulation 83 of the Aboriginal Heritage Regulations for details relating to preliminary Aboriginal heritage test prescribed fees*

SECTION 2: Person(s) involved in preparing the test

If the preliminary Aboriginal heritage test was prepared by another person / organisation on behalf of the applicant:

Name of representative(s): Lexie Branda-Pawlaczyk

Business name: Ecology & Heritage Partners

Postal address: 292 Mt Alexander Road, Ascot Vale, Victoria, 3032

Telephone number: 1300 839 325 Fax number:

Email address: Lbranda-pawlaczyk@ehpartners.com.au ABN (if any): 65 685 233 760

SECTION 3: Land owner or occupant of the activity area

Name of land owner / occupant: **Please see Appendix 3 for more information.**

Business name:

Postal address:

Telephone number: Fax number:

Email address: ABN (if any):

SECTION 4: Description of the activity area

Provide a detailed description of the proposed activity area, including a statement detailing the previous land use and a description of the location and nature of any areas of cultural heritage sensitivity located within the proposed activity area (include additional information in attachments if required). Include as part of the application a:

- map (to scale, and including a north arrow) of the proposed activity area and any associated areas of cultural heritage sensitivity or locations of Aboriginal cultural heritage; and
- shp. file (projected to GDA94) accurately showing the location of the proposed activity area.

Description of the activity area

Melbourne Water are proposing a Drain upgrade/Augmentation in Elsternwick, Brighton and Elwood, Victoria.

The proposed activity area comprises approximately a 660 m alignment, from Elsternwick Park to Port Phillip Bay and heads south west from Elsternwick Park, crossing St Kilda Street ad Ormond Esplanade, traversing Elwood Park before reaching the Head Street Brighton Concrete Pier (Bayside HO515). The proposed activity area encompasses a larger area (Map 1) to allow for option assessments, as depicted on Figure 1.

The proposed activity area also falls within the jurisdiction of the Port Phillip and Westernport Catchment Management Authority and lies within the Bayside and Port Phillip Local Government Areas. It is currently zoned Public Park and Recreation Zone (PPRZ), General Residential Zone (GRZ1) and Road Zone Category 1 (RDZ1). Identified areas of cultural heritage sensitivity under the Aboriginal Heritage Regulations 2018) within the proposed activity area include land within 200 m of Elster Creek (r.26), Coastal Crown Land (r.30) and Coastal Land (r.31).

The general proposed activity area is located within a highly urbanised area, with residential housing, commercial properties, landscaped parks and constructed roads. However, much of Elwood was originally swamp (Brown-May & Swain (eds) 2005:234) which was reclaimed in the late 19th and early 20th centuries, being filled in for housing (completed by 1905). These works included the construction of the Elwood Canal between 1888 and 1897 (SKHS 2021), which is the north-western extension of the Elster Creek, north of the proposed activity area.

A search of the VAHR was carried out on 05 August 2021 for Aboriginal Places within a 2 km radius of the proposed activity area (Map 2). A total of three registered Aboriginal Places were recorded within the search area (Table 1). These Places consist of a total of three Place types, comprising four components. None of the registered Places are located within the proposed activity area, and the closest Place to the proposed activity area is located 1.2 km south west.



Figure 1: Proposed alignment options (purple, blue and orange) with the existing drain footprint in yellow

Size of the proposed activity area (small, medium or large)[+]: Small Activity

Address: Please See Appendix 3.

Volume and folio details: Please see Appendix 3

Registered Aboriginal parties for the proposed activity area: Bunurong Land Council Aboriginal Corporation

Local Government Council for the proposed activity area: The Bayside and Port Phillip Local Government Areas

[+]*Refer to the definitions of large activity, medium-sized activity and small activity in regulation 81 of the Aboriginal Heritage Regulations 2018.*

SECTION 5 – Description of the activity

Provide a detailed description of the proposed activity, including:

- a description of whether the proposed activity is a listed high impact activity under Division 5 of the Aboriginal Heritage Regulations 2018; and
- a description of how the proposed activity will or will not cause significant ground disturbance.

The proposed activity comprises of approximately 600m alignment, from Elsternwick Park to Port Phillip Bay and heads south west from Elsternwick Park, crossing St Kilda Street ad Ormond Esplanade, traversing Elwood Park before reaching the Head Street Brighton Concrete Pier (Bayside HO515). The proposed activity area encompasses a larger area (Map 1) to allow for option assessments, as depicted on Figure 1 (above).

The scope of the "Elsternwick Creek Elwood Diversion Drain Upgrade/Augmentation" Project (D10134) is:

- The construction of approximately 660 metres of new underground drainage from Elsternwick Park to Port Phillip Bay with a desired capacity of approximately 35m3/s; and
- The construction of associated inlet, outlet, and maintenance pits.

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While the current proposal is to expand the current alignment of the existing Elsternwick Drain, Water4Good have also proposed alternate alignments (Figure 1). This assessment will provide advice and legislative obligations with reference to heritage for all options as seen in Figure 1. In all cases, the alignments include the construction of a pipeline that exceeds 500 m.

The proposed activity is a high impact activity under (r.46(1)(b)(xxvii)(B)) – a utility installation, construction of a pipeline with a length exceeding 500 metres. However the proposed activity area is not within an area of cultural heritage

sensitivity under r. 26 (2), r.30 (2) and r.31 (2). If part of the land specified in sub-regulation (1) has been subject to significant ground disturbance, that part is not an area of cultural heritage sensitivity.

	Yes	*No*
Will the proposed activity cause significant ground disturbance?		✔
Is the proposed activity a high impact activity listed under Division 5 of Part 2 of the Aboriginal Heritage Regulations 2018?	✔	
Is a statutory authorisation required to use the land for a purpose specified under regulation 46(1) (refer to regulation 58)?	✔	

SECTION 6: Background assessment

Provide a description of the geographic region, landforms, and geomorphology of which the proposed activity area forms a part and how they relate to the Aboriginal cultural heritage of this region area (include additional information in attachments if required):

Geographic region

The geographic region defined for this PAHT is by a 2km radius from the activity area. The activity area is within the 7.1.1 coastal plains with ridge and dunefields (Brighton, Cranbourne) geomorphological unit.

Forming the geographic region on the geomorphology of the proposed activity area can assist in giving a more accurate understanding of known Aboriginal Place types relevant to the proposed activity area. A geographic region based on geomorphology best represents the types and frequency of Aboriginal cultural material that may be present within the proposed activity area and helps to omit registered Aboriginal Places that are not typical of the geomorphology of the proposed activity area but rather, of different geomorphological units that may skew the data.

Bioregion

The activity area is located within the Gippsland Plain (GipP) bioregion, located in the south-east of Victoria.

The Gippsland Plain is characterized by flat low lying coastal and alluvial plains with a gradually undulating landscape, that is dominated by barrier dunes, swampy flats and floodplains (Delwp 2021a). This bioregion is generally below 200m above sea level, but its coastline includes dues and cliffs, with sandy beaches and extensive mud and sand flats in the shallow inlets (DWELP 2021a). The bioregion has an average of 500 to 1100mm of rain a year, with the major of rainfall in winter, with a rain-shadow in to the eat created by the Strzelecki Rangers, and has a temperate climate. The main rivers that drain the bioregion include the Avon, Bass, Latrobe, Macalister, Mitchell, Tambo, Tarwin, Thompson and Yarra.

The vegetation in the activity area is diverse and is characterized by grassy woodland/heathy woodland to the east, Grassy Woodland/Damp Sands Herb-rich Woodland Mosaic in areas to west and south-west, coast Banksia woodland/ coastal dune scrub mosaic on the shoreline, and some patches Sedgy Swamp Woodland.

Geology

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The proposed activity area is located in the Brighton group (Nb) geological unit which is comprised of sedimentary Fluvial which includes gravel, sand and silt, of the Neogene age (Miocene to Pliocene). The geographic region comprises a total of three geological units, the Brighton group (Nb), swamp and lake deposits (Qm1) and the alluvium (Qal).

Geomorphology and soils

The proposed activity area is located in the geomorphological unit (GMU): 7.1.1 coastal plains with ridge and dunefields (Brighton, Cranbourne). The geographic region is also located in the geomorphological unit (GMU): 7.1.1 coastal plains with ridge and dunefields (Brighton, Cranbourne).

Geomorphological unit 7.1.1 lies within the Eastern plains region of Victoria and as is characterized by coastal plains with ridges and dunes found in the Brighton, Cranbourne and Tyabb areas. Sand of variable thickness overlies the ridges and dunes in this area, formed by the sediments of the Neogene Age (DJPR 2020b). The series of parallel low dune ridges of the northwest lie parallel to the present coastline, which is are believed to be characteristic of the Neogene coastlines and dune ridges. The climate is humid to sub-humid, with rainfall that is generally distributed throughout the year.

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The soils in this bioregion vary between the terrain. In the upper terrain, soils are comprised of texture contrast soils (Chromosols, Sodosols) and the soils associated with the Lowland Forest ecosystem comprising of gradational texture soils (Dermosols). The soils in the dune support Heathy Woodland and Damp Sands Herb-rich Woodland ecosystems, which are predominately sandy soils (Podosols and Tenosols). Pale yellow and grey texture soils (Hydrosols) can be found in the fertile floodplains and swamps which support Swamp Scrub, Plains Grassy Woodland, Plains Grassy Forest, Plains Grassland and Gilgai Wetland ecosystems.

Hydrology

The activity area is located on the coast of Port Phillip Bay with the western most boundary extending into the Bay. The eastern most boundary covers Elsternwick Park Lake, the remnant of a former coastal swamp that fed into Elster Creek. Located about 370m north of the activity area, Elster Creek is a narrow watercourse that drains into Port Phillip Bay.

Vegetation

The activity area contains eight former Ecological Vegetation Classes (EVCs). These include, EVC 175 Grassy Woodland which comprises most of the inland area of the geographic region. EVC 175 is composed of open eucalypt woodland of medium height (15m) occurring on gentle slopes or undulating hills. EVC 3 Damp Sands Herb-rich Woodland occurs on deep sandy topsoils towards the coast of the geographic region. It is comprised of low grassy, and bracken dominated open eucalypt forest of medium height (15m) with a dense shrub layer and ground layer of grasses and herbs. EVC 48 Heathy Woodland occurs immediately before the coastline within the geographic region. It is comprised of eucalypt dominated low woodland (10m) with a diverse understory of ericoid-leaved shrubs. Where fires have occurred, this understory gives way to a dense cover of bracken. EVC 53 Swamp Scrub occurs along the banks of Elster Creek. It is composed of closed scrub up to 8m tall in alluvial deposits. Primary plant species within this EVC include the Swamp Paperbark (*Melaleuca ericifolia*) and Woolly Tea Tree (*Leptospermum lanigerum*). Moss and lichens dominate the ground cpover. EVC 707 Sedgy Swamp Woodland occurs to the north of the geographic region and is comprised of 15m tall eucalypt woodland, and a sedge dominated ground layer. It occurs on seasonally wet sandy soils. EVC 719 includes a mosaic of Grassy Woodland (EVC 175) and Damp sands Herb-rich Woodland (EVC 3) both detailed earlier. EVC 892 is also a mosaic, comprised of both EVC 48 (detailed earlier) Heathy Woodland and EVC 6 Sand Heathland. EVC 6 is comprised of treeless heathland growing on deep infertile sands. A dense and low heathy shrub layer is the dominant vegetation form while trees and grasses are mostly absent. EVC 921 is also a mosaic, comprised of Coast Banksia Woodland (EVC 2), dominated by an overstory of coastal banksia species with a medium shrub layer and an understory of herbs and sedges. It also includes EVC 160 Coastal Dune Scrub, characterised by closed scrub up to 5m tall occurring on secondary dunes near beach bays and lake shores.

Provide a description of the results of the search of the Victorian Aboriginal Heritage Register, including the access number, a list of reports and cultural heritage management plans relevant to the proposed activity area (include additional information as attachments if required):

A search of the VAHR was carried out on 08 February 2021 with access number 9577 for Aboriginal Places within a 2 km radius of the proposed activity area. A total of three registered Aboriginal Places were recorded within the search area (Map 2). These Places consist of a total of three Place types, comprising four components (Including Aboriginal Historical References (Table 1). None of the registered Places are located within the proposed activity area, and the closest Place to the proposed activity area is located 1.2 km southwest. A full list of Aboriginal Places in the search area is provided in Table 2.

A further two Places are recorded in the search but omitted from this data. These Places are Object Collections, which represent assemblages that are being stored at a location other than the registered Place (such as RAP offices, historical societies and Heritage Advisor offices). They are not representative of the archaeological character of the area and have therefore been omitted from the data presented in Table 1.

Table 1: Summary of Previously Identified Aboriginal Place Types within 2 km of the Proposed activity area

Place Type	Number of Components	Percentage (%)
Low Density Artefact Distributions	2	50
Shell Midden	1	25
Aboriginal Historical Place	1	25
Total	**4**	**100**

There is no previously recorded Aboriginal cultural heritage in the activity area. However, there are three registered Aboriginal Places that were recorded in within a 2km radius of the proposed activity area (Table 2). A further two Places

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are recorded in the search. These Places are Object Collections which represent assemblages that are being stored at a location other than the registered Place (such as RAP offices, historical societies and Heritage Advisor offices). They are not representative of the archaeological character of the area.

Table 2: Aboriginal Places within 2.5 km of the Proposed activity area

VAHR Place Number	Place Name	Component Number	Place Type	Distance to Proposed activity area (m)
7822-0027	POINT ORMOND	7822-0027-1	Shell Midden	1248
7822-2330	BOTANICA SPRINGS 5	7822-2330-4	Object Collection	1251
7822-3034	Brighton Historical Society Collection	7822-3034-1	Object Collection	2230
7922-0962	BRIGHTON CORROBOREE GROUND	7922-0962-1	Aboriginal Historical Place	1961
7922-1444	123 Martin Street Brighton	7922-1444-2	Low Density Artefact Distribution	1137
7922-1444	123 Martin Street Brighton	7922-1444-3	Low Density Artefact Distribution	1137

Previous Archaeological investigations

A search of the VAHR for archaeological reports and surveys within the geographic region returned a total of 24 archaeological reports. These included CHMPs, surveys and test excavations, Heritage management reports, and other desktop-based investigations. There are four local archaeological reports within 1 km of the activity area. These reports are directly relevant in helping to understand the likelihood of Aboriginal cultural heritage being present within the present activity area and have thus been summarised.

Burch and Evans (2018)

Burch and Evans (2018) prepared a complex CHMP (#16028) for a proposed multi dwelling development at 1/9 and 2/9 North Road in Brighton, located approximately 525m south-west of the proposed activity area. The proposed development involved demolition of existing structures within the activity area and disturbance to maximum depth of 3.5m for the construction of multi dwelling apartments. A standard assessment was conducted within the activity area; however, no surface heritage was located. Complex assessment consisted of one test pit (1x1m) and three shovel test pits. The complex assessment revealed that the activity area was largely comprised of controlled fill mixed with sandy sediments, overlying a natural clay base. No Aboriginal cultural heritage was identified.

Radudino (2019)

Radudino (2019) prepared a complex CHMP (#16888) for a multi dwelling development and a basement carpark at 1-3 Foam Street in Elwood, located approximately 620m north of the proposed activity area. The proposed development involved disturbance to the maximum depth of 4 metres for the construction of the twelve apartments, basement car park and lift pit. A standard assessment was conducted within the activity area; however, no surface heritage was located. Complex assessment consisted of one test pit (1x1m) and five shovel test pits. No Aboriginal heritage was identified.

Reich (2019)

Reich (2019) prepared a desktop/standard CHMP (#16359) for a proposed mixed development at 10-16 Selwyn Street in Elsternwick, located approximately 1km northeast of the proposed activity area. The proposed development involved the demolition of the site and disturbance to the maximum depth of 12m, for the construction of a supermarket, two above ground towers for residential apartments, an area for communal terraces, landscaping and other works required. The Desktop assessment found no Aboriginal places recorded within the activity area. A standard assessment was conducted within the activity area. No Aboriginal heritage was identified. It was proposed that complex testing be conducted after the sealed surfaces had been removed.

Filihia and Holzheimer (2016)

Filihia and Holzheimer (2016) prepared a complex CHMP (#14331) for a proposed residential and commercial development at 123-127 Martin Street in Brighton, 1.1km southeast of the proposed activity area. The proposed development involved disturbance of maximum depth of 3m for the construction of twenty-seven apartments, three offices, two shops and basement parking. A standard assessment was conducted with no new Aboriginal sites found.

Complex assessment consisted of one test pit (1x1m) and two shovel test pits (400x400mm). The complex assessment uncovered one new Aboriginal site VAHR 7922- 1444 (123 Martin Street, Brighton). Two artefacts were recovered, between 600-700mm in depth within a disturbed deposit. Recommendations were made for the harm and removal of Aboriginal Cultural Heritage as the site was of low archaeological and scientific significance and harm could not be avoided.

SECTION 7: Ground inspection

Provide a statement of the method and conduct of the ground inspection (if any) of the proposed activity area and the names and roles of the persons who participated in the inspection:

A site visit was carried out on 9 March 2022 by Lexie Branda-Pawlaczyk (Heritage Advisor). The site inspection was not a formal archaeological survey and not intended for the purpose of identifying cultural heritage material. The purpose of the site inspection was to determine the landforms of the proposed activity area and any to identify any evident ground disturbance.

The site inspection was carried out across all three options for the proposed alignment of the outfall pipeline. For the purpose of reporting, these areas will be subsequently referred to as Alignment 1 (Blue) (A1), Alignment 2 (Orange) (A2) and Alignment 3 (Purple) (A3) (Map 3). The participant traversed these areas on foot. It is likely that laydown and construction areas will be required for the construction of the pipeline and therefore this assessment will review all three options as one activity within the extent of the proposed activity area.

A1 commences from Elsternwick Park Lake, a modified body of water to intersect St Kilda Street, along Joyce Steet and Kingsley Street, across Ormond Esplanade. It intersects Northeast to southwest across Padre Football Club Oval to align with the Elwood Pier.

A2 commences from the southernmost point of Elsternwick Park Lake, intersecting the corner of St Kilda Street and Ormond Esplanade. It is position further south of A3 intersecting through Head Street Reserve before following the northern verge area of Head Street, prior to alignment with the pier.

A3 commence s from the southernmost point of Elsternwick Park Lake, intersecting the corner of St Kilda Street and Ormond Esplanade. It run south of A1 align through Padre Football Club Oval. It is the same current alignment as the existing pipeline.

Previous Ground Disturbance

From the results of the site inspection, the proposed activity area is highly disturbed. Several forms of ground disturbance were encountered during the site inspection (Plates 7 to 9). These include:

- Modification of the Elsternwick Park Lake (Plate 1) and modification of Elsternwick Park landform (Plate 2)
- Construction of over and underground utilities and services including an existing pipeline (Plate 3, Plate 4).
- Construction of Major Roadways (St. Kilda Street, Ormond Esplanade) and residential roads (Joyce Street, Head Street and Kingsley Street) (Plate 5, Plate 6).
- Construction of residential properties.
- Construction of the Elwood pier (Plate 7).
- Construction of Elwood beach parking facilities (Plate 8)
- Construction and levelling of Head Street Reserve, Padre Football club and Elwood City Soccer club ovals.

From the site inspection, it can be determined that the entire activity area has been subject to ground disturbance.

If a survey for Aboriginal cultural heritage is undertaken, the results of that survey (whether or not it is registered under section 34A of the Aboriginal Heritage Act 2006, *must be submitted as part of this application.*

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Plate 1: Facing south showing constructed footpath along Elsternwick Park Lake, with modified raise landform surrounding the lake (L. Branda-Pawlaczyk).



Plate 2: facing west showing souths end of the Elsternwick Park Lake with stabilised waters' edge. (L. Branda-Pawlaczyk).



Plate 3: Facing west showing constructed drainage pit, depth of up to 5m below surface to the south of Elsternwick Park Lake, (L. Branda-Pawlaczyk).



Plate 4: facing east, utility pits visible to the Northwest of Head Street Reserve, and west of the Elwood Croquet Club (L. Branda-Pawlaczyk).

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Plate 5: Facing west to Ormond Esplanade (L. Branda-Pawlaczyk).



Plate 6: Facing south showing the corner of Ormond Esplanade and St. Kilda Street (L. Branda-Pawlaczyk).



Plate 7: Facing southeast showing constructed concrete Elwood Pier. (L. Branda-Pawlaczyk).



Plate 8: facing west showing souths end of the Elsternwick Park Lake with stabilised waters' edge. (L. Branda-Pawlaczyk).



Plate 9: Facing North showing completed levelled and modified Head Street Reserve (L. Branda-Pawlaczyk).



Plate 10: facing west showing constructed football ovals. (L. Branda-Pawlaczyk).

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Current Services Investigation - Dial Before you Dig.

A dial before you dig search was undertaken on the 18 March 2022, for known underground assets in the proposed activity area. The following service providers listed assets in or surrounding the proposed activity area (Appendix 1). A review of each has been provided below.

Melbourne Water: Underground storm water drainage pipeline running east-west intersecting with Head Street and St Kilda Street and running northeast after St Kilda Street. One Sewer main pipeline running north-south on the eastern side of St Kilda Street.

Bayside City Council: Underground drainage pipe and approximately 10 drainage pits running beneath southern side of Head Street. Connects with Melbourne Water pipeline.

NBN: Telecommunications cables beneath entire extent of Head Street and Ormond Esplanade within activity area.

United Energy Distribution: Electrical cables (LV UG) beneath Head Street, bisecting activity area north to south and street lighting cables beneath Ormond Esplanade, St. Kilda Street, Joyce Street and Kingsley Street.

South East Water: Water Main services beneath Ormond Esplanade, St. Kilda Street, Joyce Street and Kingsley Street. There are also multiple installed fire hydrants within the proposed activity area.

Multinet Gas: High pressure gas mains beneath Ormond Esplanade, St. Kilda Street, Joyce Street and Kingsley Street. Low pressure gas main along Head Street connection to the Elwood Park Pavilion.

Optus: Telecommunications cables beneath entire extent of Head Street, St. Kilda Street and Ormond Esplanade within activity area. There are Optus Fibre optic underneath Head Street reserve.

City of Port Phillip: There are multiple drainage pipes and pits across the Elwood Beach parking area, underneath the sports ovals in the northern and southern portions, beneath Ormond Esplanade, St. Kilda Street, Joyce Street and Kingsley Street.

SECTION 8: Aboriginal cultural heritage

Provide a detailed description of any Aboriginal cultural heritage in the activity area, including the registration number of the Aboriginal cultural heritage on the Victorian Aboriginal Heritage Register (Register):

There are no registered Aboriginal places in the proposed activity area. No areas of archaeological potential were identified during the site inspection.

SECTION 9: Consultation

Provide details of any consultation undertaken (if any) with any relevant Registered Aboriginal Parties (RAP) or Traditional Owner groups, including:

- A summary of the information provided by a relevant RAP or other person about the Aboriginal cultural heritage in the proposed activity area; and
- Any oral information provided by a relevant RAP or other person about the Aboriginal cultural heritage in the proposed activity area, if the person who provided the information consents.

Consultation with the relevant RAP was not included within the scope of this project

SECTION 10: Significant ground disturbance

Provide a detailed description (including of the nature and extent) of the evidence of significant ground disturbance (if any) that has occurred within the activity area. Attach any figures, maps, (to scale, and including a north arrow) or aerial photographs as required:

There is an existing Elwood Diversion Drain underground along the same or similar alignment as the proposed upgraded drain. This original drain was constructed between 1955 and 1957 (SKHS 2021) and an associated retarding basin was constructed in the Elsternwick Park in 1996. The general study area is located within a highly urbanised area, with residential housing, commercial properties, landscaped parks and constructed roads. However, much of Elwood was originally swamp (Brown-May & Swain (eds) 2005:234) which was reclaimed in the late 19th and early 20th centuries, being filled in for housing (completed by 1905). These works included the construction of the Elwood Canal between 1888 and 1897 (SKHS 2021; Figure 3), which is the north-western extension of the Elster Creek, north of the study area.

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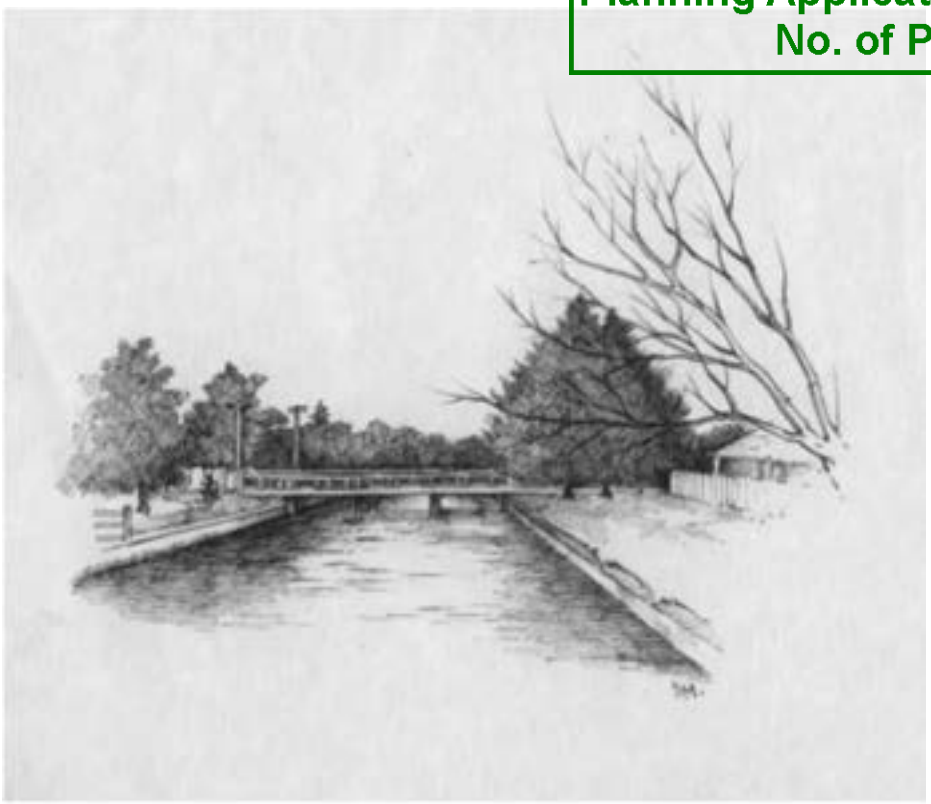


Figure 2: "Elwood Canal", sketch by Sharyn Madder (date unknown; source: SKHS 2021)



Figure 3: Recent Aerial Imagery (Near Map 2015) (Source DWELP 2022).

Recent Aerial imagery demonstrates the significance ground disturbance has occurred throughout the intensive development of the proposed activity area (Figure 2). this included disturbance (as noted in the site inspection) Construction of utilities, roads, residential properties, Elwood pier, parking facilities, Head Street Reserve, Elwood Park and construction and modification of Elsternwick Park. From the recent aerial imagery, it can be determined that the entire activity area has been subject to ground disturbance.

SECTION 11: Conclusions

Provide details of:

- whether a cultural heritage management plan is required in relation to the proposed activity;
- whether there has been significant ground disturbance in the proposed activity area and, if so, the nature and extent of the disturbance;
- any other action recommended to protect or preserve any Aboriginal cultural heritage in the proposed activity area, including;
    - whether it is likely there is Aboriginal cultural heritage located in the activity area (other than that included on the Register)
    - what precautions should be undertaken to avoid harming Aboriginal cultural heritage
    - whether it would appear a cultural heritage permit or cultural heritage management plan must be sought to allow harm to Aboriginal cultural heritage before the activity can proceed; and
- any obstacles encountered in preparing the test.

The following conclusions are made regarding the requirement for a CHMP for the proposed activity:

- The proposed activity includes a utility installation, construction of a pipeline with a length exceeding 500 metres; under r.46(1)(a)(b)(xxvii)(B)
- The proposed pipe for Option A2 is an existing pipe; therefore, the project is not a high impact activity under r.46(3) – carrying out of works on land is not a high impact activity if is it for, or associated with, a purpose listed under subregulation (1)(b) for which the land was being lawfully used immediately before 28 May 2007.
- The activity area is not within an area of cultural heritage sensitivity under r.30 (2) - If part of an area of coastal Crown land has been subject to significant ground disturbance, that part is not an area of cultural heritage sensitivity and;
- The activity area is not within an area of cultural heritage sensitivity under r. 26 (2), r.30 (2) and r.31 (2).If part of the land specified in subregulation (1) has been subject to significant ground disturbance, that part is not an area of cultural heritage sensitivity.

The proposed activity area has also been disturbed and impacted from prior road and utility development and construction. Disturbance consists of vegetation clearance, sub-surface service installation, soil removal and benching, construction of concrete paths, sealed and gravel base roads, construction of ovals and manufactured parks. This was confirmed by aerial imagery, DBYD search and a site inspection previous archaeological investigation in the area. The previous archaeological investigations also concluded that it was unlikely that Aboriginal cultural heritage would be present within their activity area, which shared similar constructions and developments as the activity area for this investigation.

Under the *Aboriginal Heritage Act 2006*, all Aboriginal cultural heritage Places are protected. The findings of this PAHT have identified that the presence of Aboriginal cultural heritage is unlikely to be located within the activity area.

The proposed activity is a high impact activity under r.46(1)(a)(b)(xxvii)(B); however, the activity area is not within an area of cultural heritage sensitivity under r. 26 (2), r.30 (2) and r.31 (2). Therefore, a mandatory Cultural Heritage Management Plan is not required for the proposed activity.

There are no further Aboriginal cultural heritage requirements under the *Aboriginal Heritage Act 2006* for the proposed works and no further recommendations. There were no obstacles to preparing this PAHT.

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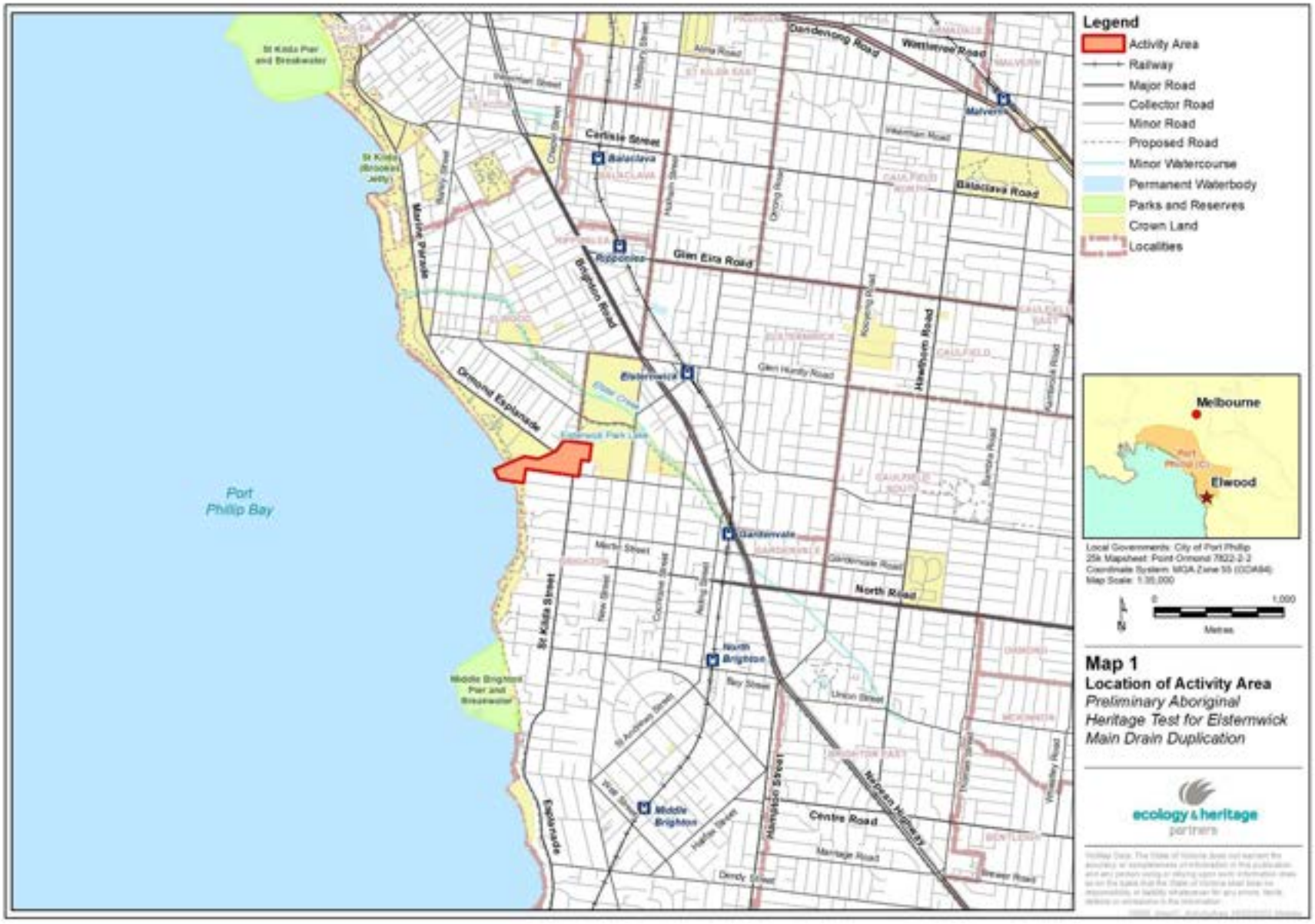
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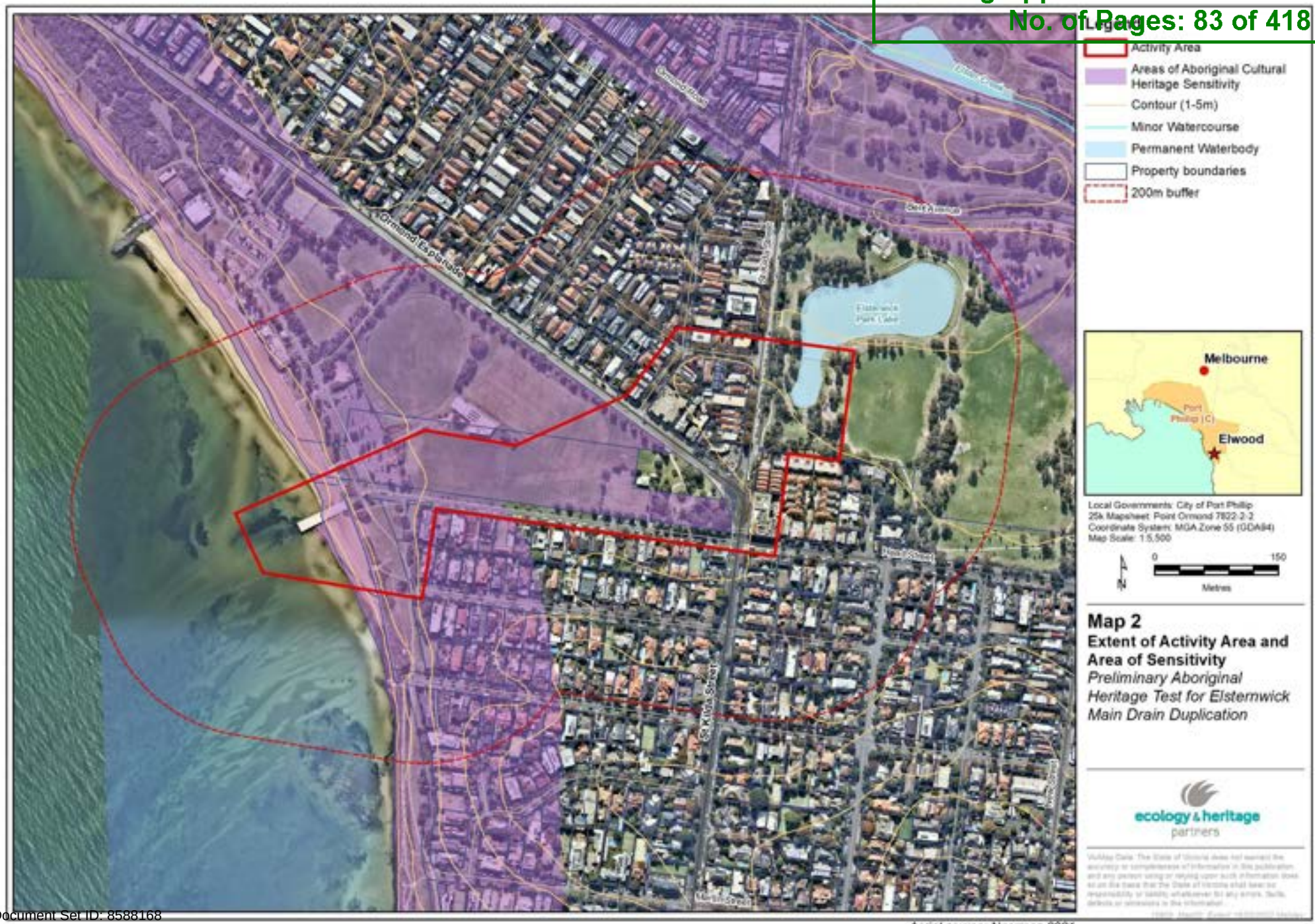
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APPENDIX 1 – MAPS

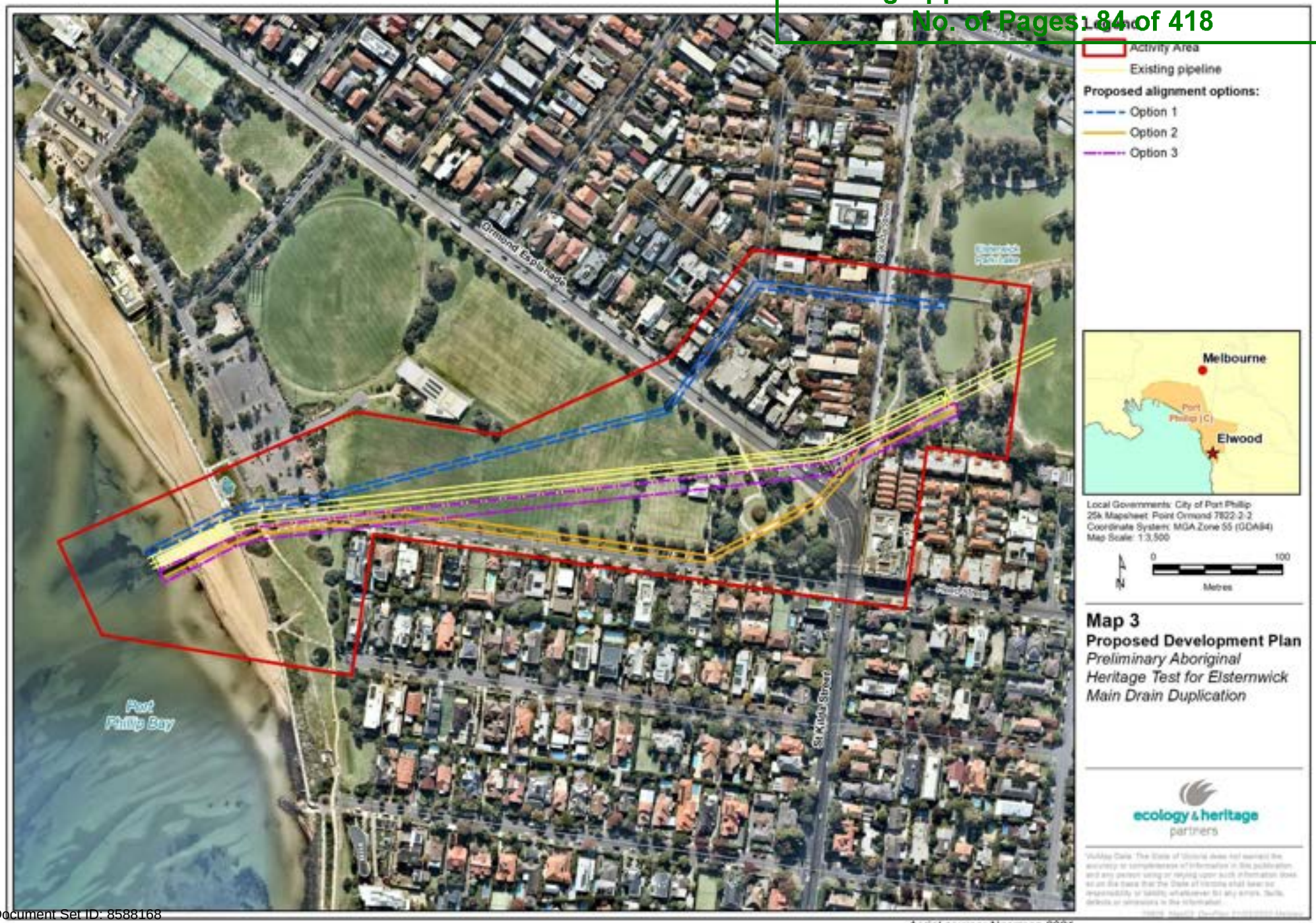


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Aerial source: Nearmap 2021

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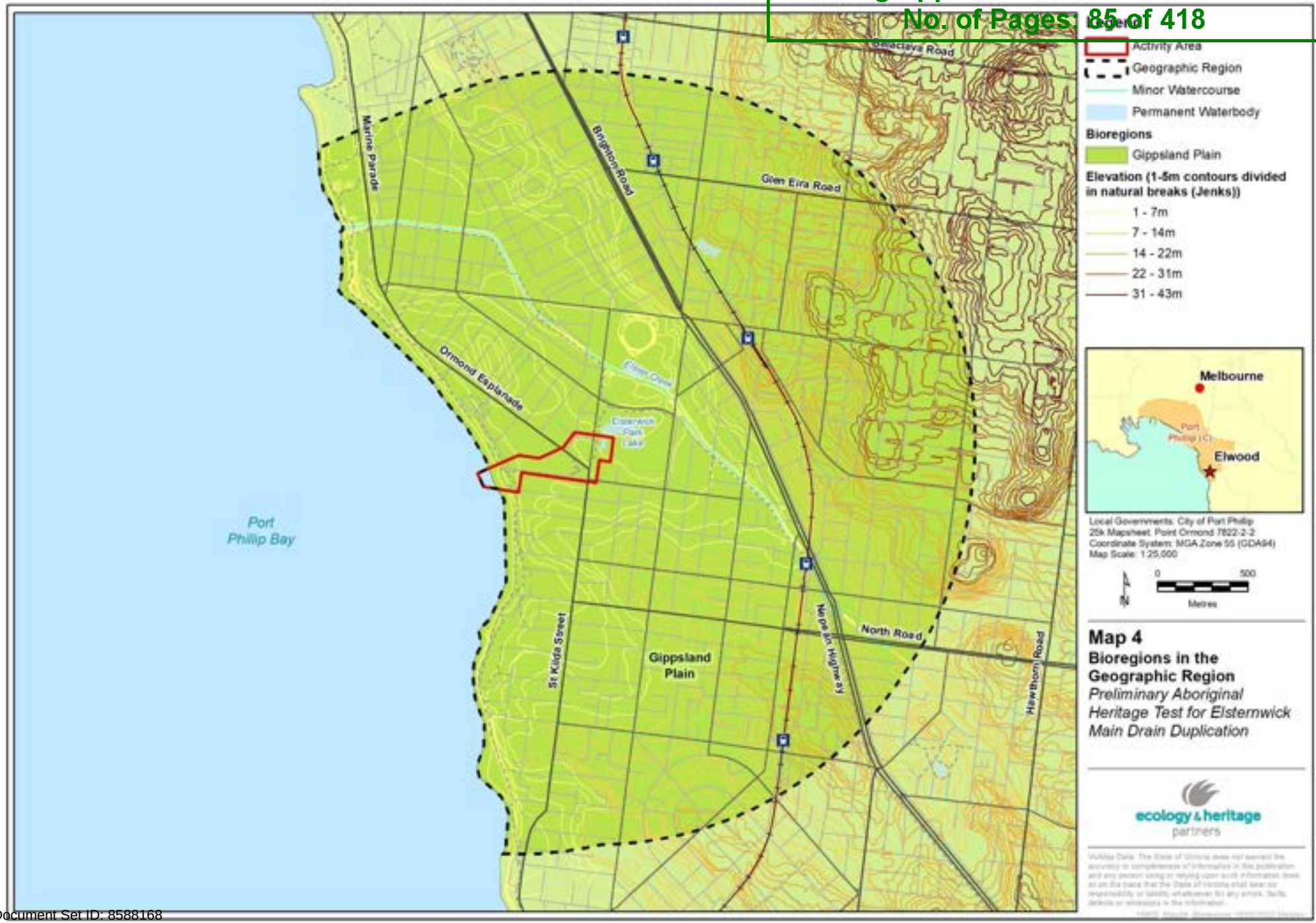


Map 3
Proposed Development Plan
Preliminary Aboriginal Heritage Test for Elsternwick Main Drain Duplication

ecology & heritage partners

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Map 4
Bioregions in the Geographic Region
Preliminary Aboriginal Heritage Test for Elsternwick Main Drain Duplication

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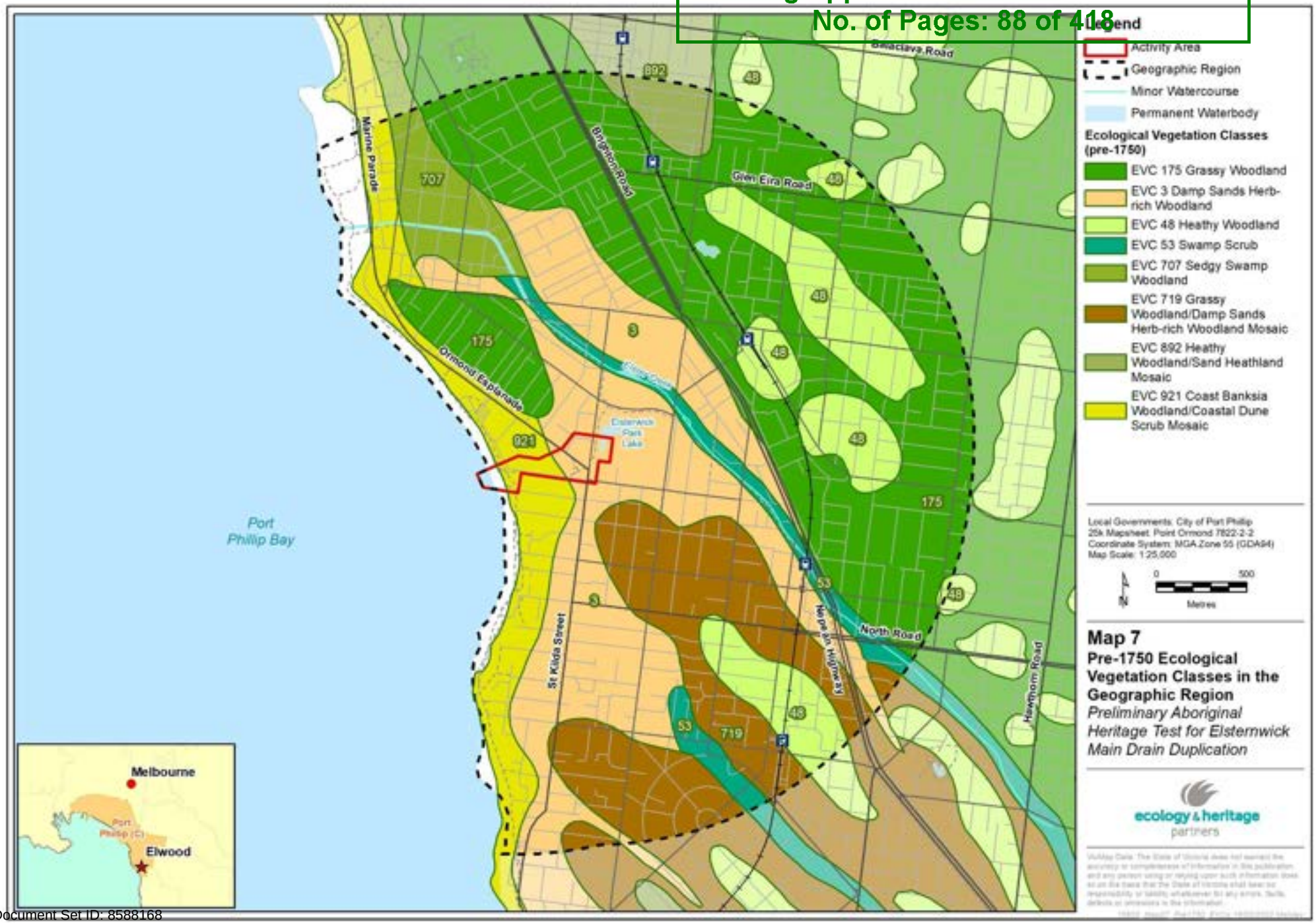
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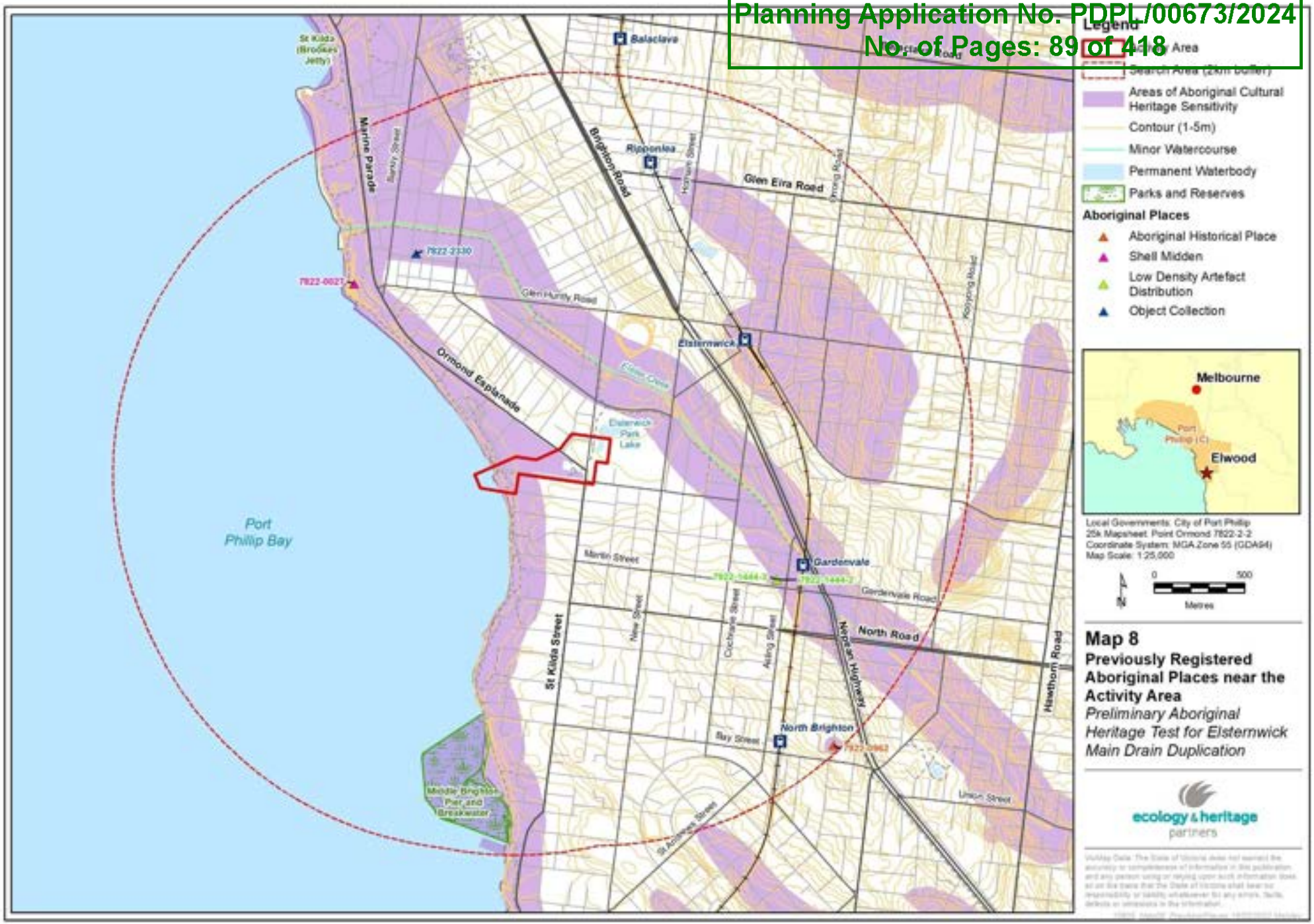
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APPENDIX 2 – DBYD PLANS

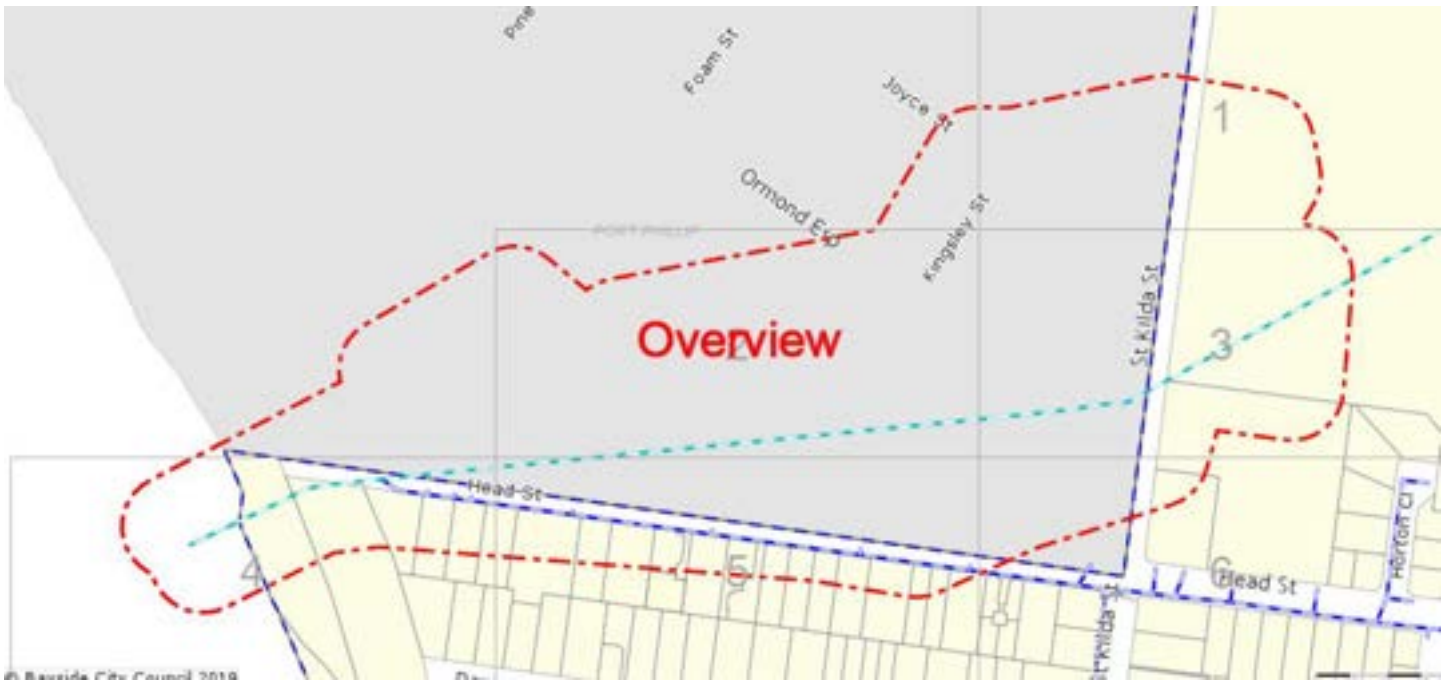


Figure 4 Melbourne water asset locations

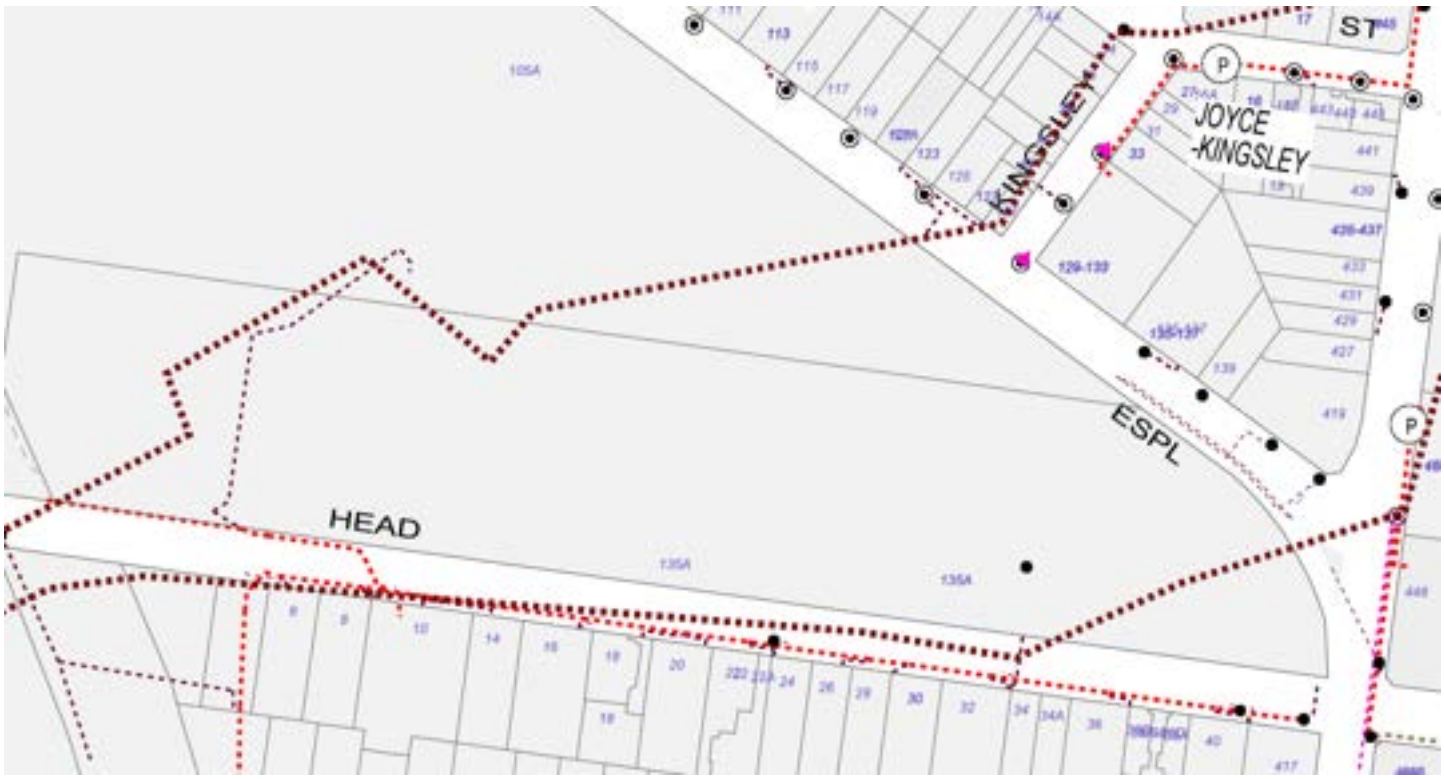


Figure 5 United Energy Company cables within proposed activity area

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Figure 6 Melbourne Water sewer main locations

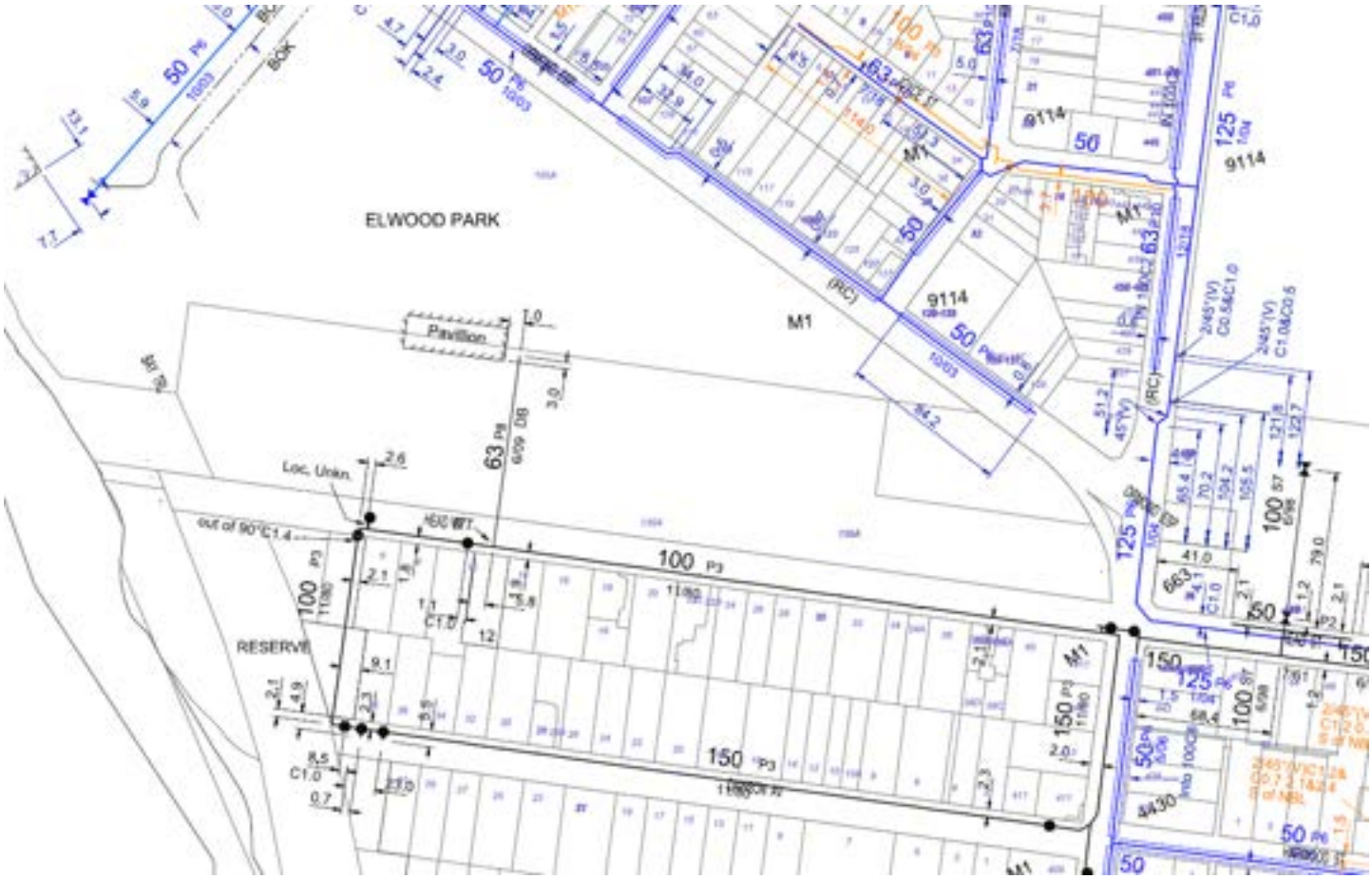


Figure 7 Multinet Gas Networks

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Figure 8 Optus



Figure 9 South East Water

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APPENDIX 3 – CADASTRAL DETAILS

Table 2: Cadastral Details of the proposed Activity Area

Lot	Title Plan	Address	LGA	Vol/Folio	Owner/Occupier
4	TP868238	164 Glenhuntly Road, Brighton	Bayside City Council	11766/796	Crown
8A	PP3416C	8A Head Street, Brighton	Bayside City Council	11766/745	Crown
13A	PP3416C	135A Head Street, Brighton	Bayside City Council	11766/752	Crown
13B	PP3416C	135A Head Street, Brighton	Bayside City Council	11766/757	Crown
13C	PP3416C	135A Head Street, Brighton	Bayside City Council	11766/752	Crown
4	TP868238	419 St Kilda Street, Brighton	Bayside City Council	09411/582	Wah Cheung
1	TP703342	N/A	Bayside City Council	N/A	Road Reserve, Not Occupied
13D	PP3416C	15 Elwood Foreshore, Brighton	Bayside City Council	11766/752	Crown
!3E	PP3416C	15 Elwood Foreshore, Brighton	Bayside City Council	11766/752	Crown

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Appendix C: Title Particulars

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CROWN FOLIO STATEMENT

VOLUME 11766 FOLIO 759 Security no : 124120135789Y
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CROWN FOLIO

LAND DESCRIPTION

Crown Allotment 13A at Elwood Parish of Prahran.
Created by instrument MI181846S 06/08/2016

CROWN LAND ADMINISTRATOR

PORT PHILLIP CITY COUNCIL of 99A CARLISLE STREET ST KILDA VIC 3182
MI181846S 06/08/2016

STATUS, ENCUMBRANCES AND NOTICES

RESERVATION MI181848N 06/08/2016
PERMANENT
PUBLIC RECREATION

DIAGRAM LOCATION

SEE CD070845F FOR FURTHER DETAILS AND BOUNDARIES

ACTIVITY IN THE LAST 125 DAYS

NIL

DOCUMENT END

Home	Account: **324137**		Authority Fee(GST exclusive): **$9.50** Service Fee(GST exclusive): **$0.00** GST Payable: **$0.00** Total: **$9.50**	25/11/2024 05:03PM

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CROWN DIAGRAM

CD070845F

Location of Land

Parish : PRAHRAN
Township : ELWOOD:AT (PRAHRAN)
Allotment : 13A

This plan has been created to assist in locating a Crown land parcel

Warning: No warranty is given as to the accuracy or completeness of this plan

Any derived dimensions are approximate

Standard Parcel Identifier (SPI) : 13A\PP3416C

Vicmap Parcel PFI : 52518366

Coordinate Position

MGA : 322710, 5804830 (55)

Melways Directory Reference : 67 B4 (ed. 35)

Compiled from VICMAP cadastral mapping data

Date: 22/05/2009

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CROWN FOLIO

LAND DESCRIPTION

Crown Allotment 13B at Elwood Parish of Prahran.
Created by instrument MI181841D 06/08/2016

CROWN LAND ADMINISTRATOR

PORT PHILLIP CITY COUNCIL of 99A CARLISLE STREET ST KILDA VIC 3182
MI181841D 06/08/2016

STATUS, ENCUMBRANCES AND NOTICES

RESERVATION MI181843Y 06/08/2016
TEMPORARY
PUBLIC RECREATION

DIAGRAM LOCATION

SEE CD070843K FOR FURTHER DETAILS AND BOUNDARIES

ACTIVITY IN THE LAST 125 DAYS

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CROWN DIAGRAM

CD070843K

Location of Land

Parish : PRAHRAN
Township : ELWOOD:AT (PRAHRAN)
Allotment : 13B

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Any derived dimensions are approximate

Standard Parcel Identifier (SPI) : 13B\PP3416C

Vicmap Parcel PFI : 52518369

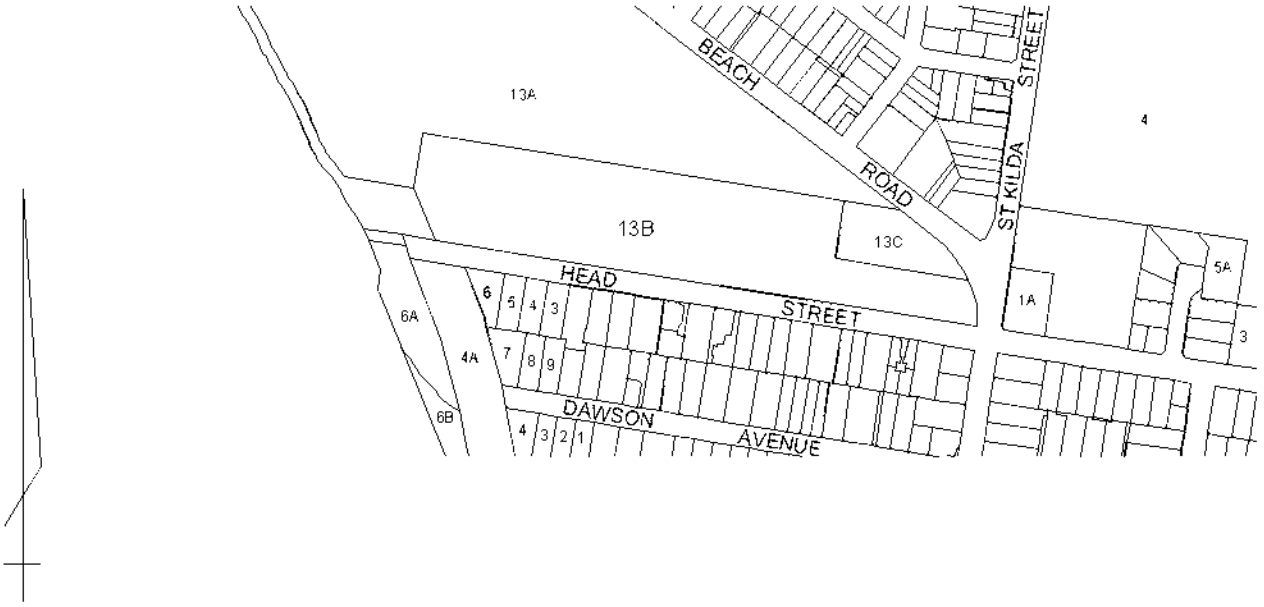
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Melways Directory Reference : 67 C5 (ed. 35)

Compiled from VICMAP cadastral mapping data

Date: 22/05/2009



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CROWN FOLIO

LAND DESCRIPTION

Crown Allotment 13C at Elwood Parish of Prahran.
Created by instrument MI181827W 06/08/2016

CROWN LAND ADMINISTRATOR

PORT PHILLIP CITY COUNCIL of 99A CARLISLE STREET ST KILDA VIC 3182
MI181827W 06/08/2016

STATUS, ENCUMBRANCES AND NOTICES

RESERVATION MI181829S 06/08/2016
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CROWN DIAGRAM

CD070838C

Location of Land

Parish : PRAHRAN
Township : ELWOOD:AT (PRAHRAN)
Allotment : 13C

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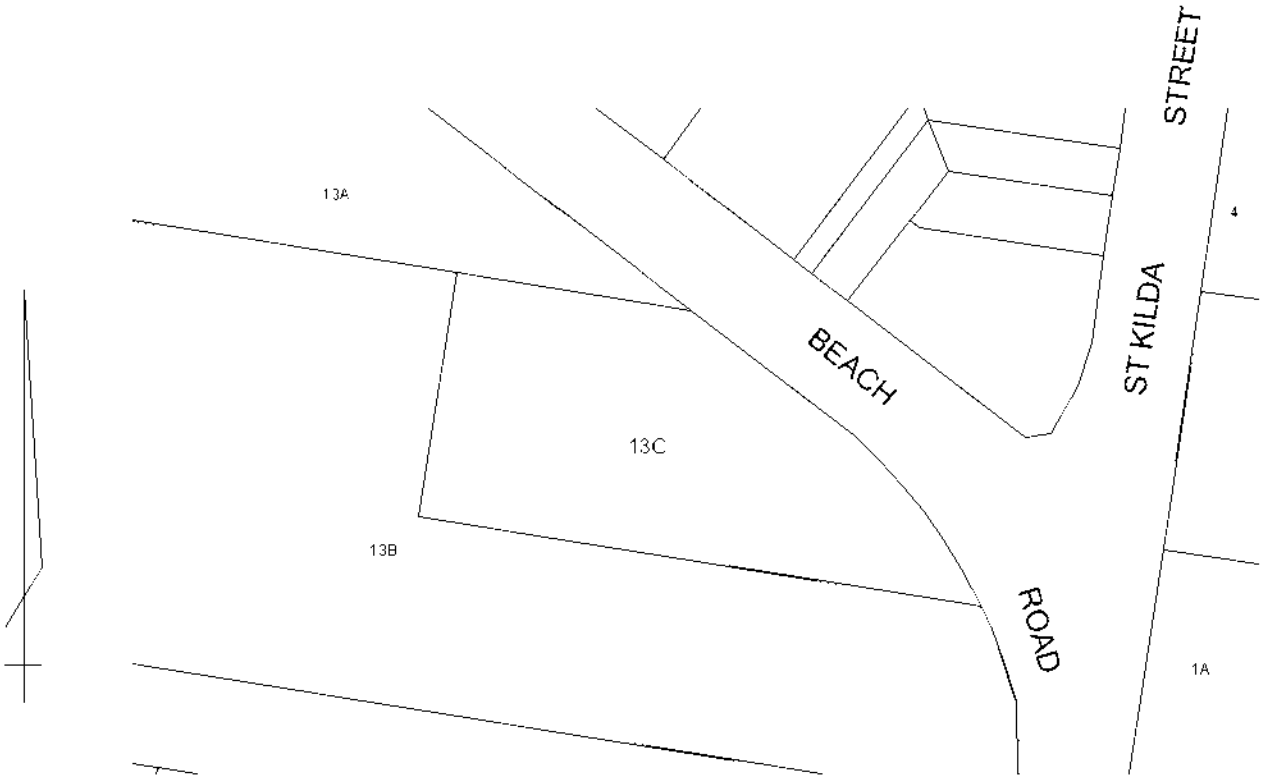
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Appendix D: Planning Permit Triggers Assessment

An assessment of the proposed works against the relevant controls of the Port Phillip Planning Scheme was undertaken to determine the planning permit triggers, and is provided below.

Planning Control	Permit Triggered?			Justification
	Building & works	Use	Veg removal	
ZONES				
GRZ1 Clause 32.08	No	No	No	Under the GRZ1, a minor utility installation is a Section 1 Use – permit not required. Pursuant to Clause 62.02-1, a planning permit is not required for buildings or works associated with a minor utility installation. The GRZ1 does not contain any specific requirements relating to vegetation impacts.
NRZ1 Clause 32.09	No	No	No	Under the NRZ1, a minor utility installation is a Section 1 Use – permit not required. Pursuant to Clause 62.02-1, a planning permit is not required for buildings or works associated with a minor utility installation. The NRZ1 does not contain any specific requirements relating to vegetation impacts.
PPRZ Clause 36.02	No	No	No	Under the PPRZ, a minor utility installation is a Section 1 Use – permit not required. Pursuant to Clause 62.02-1, a planning permit is not required for buildings or works associated with a minor utility installation. The PPRZ does not contain any specific requirements relating to vegetation impacts.
TRZ2 Clause 36.04	No	No	No	Under the RDZ1, a minor utility installation is a Section 1 Use – permit not required. Pursuant to Clause 62.02-1, a planning permit is not required for buildings or works associated with a minor utility installation. The TRZ2 does not contain any specific requirements relating to vegetation impacts.
OVERLAYS				
DDO7 Clause 43.02	No	No	No	Pursuant to Clause 62.02-1, a planning permit is not required for buildings or works associated with a minor utility installation.

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Planning Control	Permit Triggered?			Justification
	Building & works	Use	Veg removal	
				The DDO7 does not contain any specific requirements relating to vegetation impacts, or land use.
DDO10 Clause 43.02	No	No	Yes	Pursuant to Clause 62.02-1, a planning permit is not required for buildings or works associated with a minor utility installation. Pursuant to DDO10, a planning permit is required to remove or plant vegetation. As the works require removal and planting of vegetation, a planning permit is triggered. The DDO10 does not contain any specific requirements relating to land use.
SBO2 Clause 44.05	No	No	No	Pursuant to Clause 62.02-1, a planning permit is not required for buildings or works associated with a minor utility installation.
PARTICULAR PROVISIONS				
Clause 52.17 - Native Vegetation	No	No	No	Pursuant to Clause 52.17, a planning permit is required to remove, destroy or lop native vegetation, including dead native vegetation. There are no impacts to native vegetation proposed within the City of Port Philip.
Clause 52.29 – Land adjacent to the Principal Road Network	No	No	No	Pursuant to Clause 52.29-2, a planning permit is required to create or alter access to a road in a TRZ2. No changes to existing access to St Kilda Street or Ormand Esplanade the PAO1 are proposed. As such, a planning permit is not required under Clause 52.29-2.

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Appendix E: Vegetation to be impacted – DDO10

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Site Plan: Vegetation to be impacted - DDO10

Elwood Diversion Drain Augmentation

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Legend

- DDO10 Tree - Retain
- DDO10 Tree - Remove
- Trees not subject to planning approval - impacts will be discussed with Council
- Bayside trees - impacts considered under separate approval
- DDO10 Tree Group - Remove

Tree Impact Plan
- Groups
- TPZs
- Group TPZ

- Project Area
- Council Boundary

Overlays (Port Phillip)
- DDO10



DATA SOURCES
Vic Data, Tree Logic; Imagery: MetroMap, 2024

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Appendix F: Tree Impact Assessment Report and Addendum to Tree Report

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Tree Impact Assessment Report

MELBOURNE WATER –

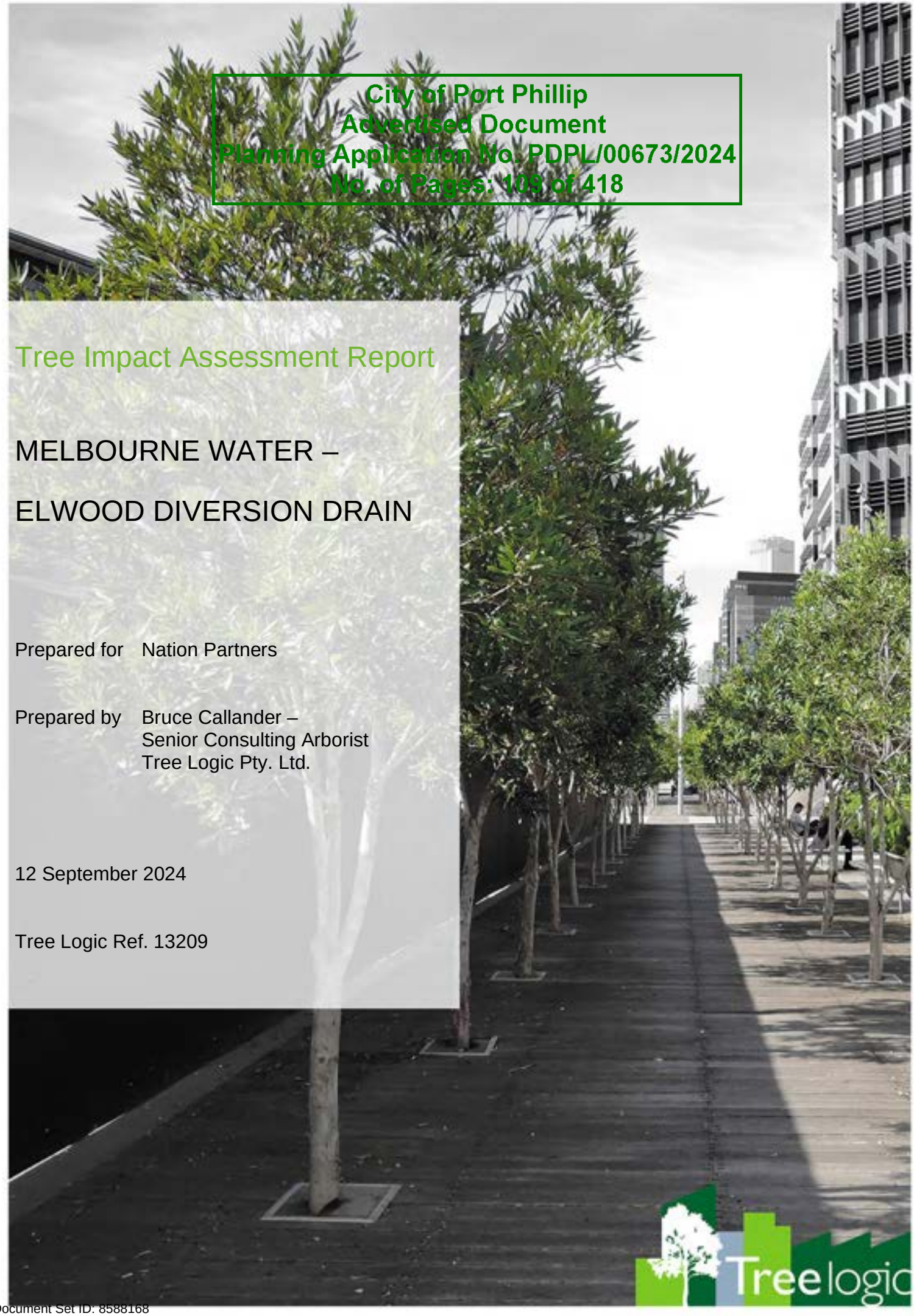
ELWOOD DIVERSION DRAIN

Prepared for Nation Partners

Prepared by Bruce Callander –
Senior Consulting Arborist
Tree Logic Pty. Ltd.

12 September 2024

Tree Logic Ref. 13209



Document Set ID: 8588168
Version: 1, Version Date: 08/01/2025

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Construction Guidelines 135

TL_13209_Tree report_MW Elwood Diversion Drain.

File No.	Version	Author	Issue date	Edits	Issued by.
13209	V1	Bruce Callander	19/04/2024	Preliminary report	BC
13209	V2	Bruce Callander	12/09/2024	Tree impact assessment report	BC

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1 Executive Summary

1.1 Tree Logic was engaged by Nation Partners to undertake an arboricultural assessment and prepare a report for trees associated with the proposed Elwood Diversion Drain.
The primary objectives of the arboricultural report include;

- Assess trees within the defined tree study area and provide information on the species, origin, dimensions, health and structure of the trees and their arboricultural values.
- Determine the Tree Protection Zones (TPZ) for trees compliant with AS4970 'Protection of trees on development sites'.
- Determine if trees are subject to permit and offset under any council planning overlays or Native Vegetation – Clause 52.17.

1.2 The tree study area extends from the Elwood Canal through parts of Elsternwick Park and the Elwood Foreshore reserves.

Refer to Plate 1 below.



Plate 1: Tree study area shown by red outline.

1.3 The tree population was assessed as 414 individual trees and 19 groups of trees of either similar species or age class & size comprising approximately 256 additional trees.

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It included approximately 70 different species including 12 species that may occur naturally in the locale and be considered indigenous despite all vegetation having been planted.

1.4 All tree features were attributed an arboricultural rating which reflects the retention value of the trees.

- Three (3) trees were attributed an arboricultural rating of High, being prominent trees in better than typical condition for the species with additional historical or ecological values.
- Thirty five (35) trees were attributed an arboricultural rating of Moderate A, being prominent trees in better than typical condition for the species
- One hundred and seventy three (173) trees were attributed an arboricultural rating of Moderate B, being middle of the range and typical of the species.
- One hundred and fifty five (155) trees were rated Moderate C, being either maturing trees that were developing health and structural deficiencies and tending towards being of Low arboricultural value or being younger trees of relatively small size.
- Fifty eight (58) tree features were rated Low, being either trees with health and / or structural deficiencies or established woody weed trees.
- Nine (9) trees were rated Very low, being either defective or dead and are generally recommended for removal unless providing some habitat value.

1.5 Three hundred and three (303) tree features exist within the Bayside council area and one hundred and thirty (130) exist within the City of Port Phillip. Each of these councils have a Tree Protection Local Law that seeks to protect trees of 150 to 155 centimetres circumference measured at 1.0 metres above ground level.

- Seventy seven (77) trees will be subject to the Bayside Local Law and 213 are undersize.
- Fifty (50) trees will be subject to the Port Phillip Local Law and 80 are undersize.
- Sixteen (16) trees and three (3) groups exist within the Bayside Vegetation Protection Overlay – Schedule 1 (VPO1) and would trigger additional permit requirement under VPO1.
- Despite approximately 245 tree features being of a species considered as indigenous to the locale, it is concluded that the majority are planted specimens associated with the coastal plantings around carparks and shared paths or with the wetlands in Elsternwick Park that were established in 1999. Being planted specimens they would not be subject to permit and offset requirements under Native Vegetation Clause 52.17 were they to be removed. Refer to Section 3.

1.6 At the time of preparing the Tree Impact Report, plans of the proposed works to duplicate the Elwood Diversion Drain were provided for review.

- Full impact assessment details are provided in Section 6 and summarised in Table 5.
- The perceived tree impacts are also identified and colour coded in the tree assessment data in Appendix 1 and the Tree & TPZ maps in Appendix 2.

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1.7 Retention suitability will be dependent on the proposed landscape setting in which trees are intended to be retained. The following recommendations are provided for consideration in the design process.

- On the basis of future site safety and potential amenity, preference should be given to retaining trees of High and Moderate arboricultural value in built areas, or areas of increased target potential.
    - Small trees of Low arboricultural value that are otherwise in reasonable condition (Fair-poor or better Health and /or Structure) may offer a potential established tree resource, even if only as an interim measure.
    - Trees of Low arboricultural value should not compromise reasonable design intent.
    - Low or Very Low rated trees with health or structural deficiencies (Poor or worse Health and/or Structure) or trees recognized as environmental weed species should generally be considered for removal based on sound arboricultural opinion.
    - Trees under third party ownership such as neighbouring trees must be duly protected unless the tree owner authorises works to occur to the tree or within the TPZ.

1.8 Appropriate tree protection fencing must be established and maintained around all trees to be retained.

1.9 Where the trees exist in adjacent properties, the part of the TPZ that exists within the subject site must still be protected to avoid adversely affecting the tree or compacting the soil within the root zone of roadside or neighbour's trees.

1.10 Refer to Appendix 1 for full tree assessment details and Appendix 2 for Tree and TPZ maps.

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2 Method

2.1 A site inspection was carried out on Wednesday and Thursday, April 10th & 11th, 2024 during mild conditions by Bruce Callander (Senior Consultant Arborist – Dip. Hort. – Cert 5 Arb.), Thiet Nguyen (Consultant Arborist - Master of Forestry, TRAQ trained and qualified) and Ethan Lua (Consultant Arborist - ISA Cert Arb, BEnv(LscapeArch).

2.2 The trees were inspected from the ground and observations were made of the growing environment and surrounding area.

2.3 Each tree feature was plotted on ruggedized mobile field tablet computers using a combination of aerial imagery, extracts from Feature Survey plan for the Plan of Survey-Elsternwick Wetlands-Nth of Bent Ave (Surfcoast: Proj 2023-425) and Elwood_Diversion_Drain_LiDAR_Contours, cadastral layers (property boundaries, easements, council overlays), in conjunction with GPS and measuring tool. The location of each tree and group is indicated in Appendix 2 using GIS mapping displayed on aerial imagery of the site and is colour coded based on arboricultural value.

2.4 Observations were made of the assessed trees to determine the species, origin, age class and condition with measurements taken to establish tree crown height (measured with a height meter) and crown width (paced) and trunk dimensions (measured 1.4 metres above ground level with a diameter tape unless otherwise stated).

2.5 Assessment details of individual trees are listed in Appendix 1 and a copy of the tree location plan can be seen in Appendix 2. Descriptors used in the assessment can be seen in Appendix 3.

2.6 Photographs of trees and their environs were taken for further reference when preparing the report.

2.7 Each of the assessed trees was attributed an ‘Arboricultural Rating’. The arboricultural rating correlates the combination of tree condition factors (health and structure) with tree amenity value. Definitions of arboricultural ratings can be seen in Appendix 3.

2.8 The assessed trees have been allocated tree protection zones (TPZ). The Australian Standard, AS 4970-2009, has been used as a guide in the allocation of TPZs for the assessed trees. This method provides a TPZ that addresses both the stability and growing requirements of a tree. TPZ distances are measured as a radius, from the centre of the trunk at (or near) ground level. All TPZ measurements are provided in Appendix 1 and displayed on the tree location plan in Appendix 2.

2.9 Documents reviewed:

- Planning Property reports for 462 St Kilda Street, Brighton, T1/135A Ormond Esplanade, Elwood & 4 Head Street, Brighton.
- Public Park and Recreation Zone (PPRZ) (Bayside), Public Park and Recreation Zone (PPRZ) (Port Phillip) Vegetation Protection Overlay - Schedule 1 (VPO1), Special Building Overlay (SBO)
- extracts from Feature Survey plan for the Plan of Survey-Elsternwick Wetlands-Nth of Bent Ave (Surfcoast: Proj 2023-425) and Elwood_Diversion_Drain_LiDAR_Contours
- Native Vegetation – Clause 52.17 pertaining to naturally occurring trees native to Victoria (not planted specimens) on land greater than 4,000 square metres.

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3 Permit requirements

3.1 The tree study area spans parts of both the Cities of Port Phillip and Bayside council region.

- The study area is generally zoned for Public Park and Recreation Zone (PPRZ).

3.2 The City of Bayside Tree Protection Local Law (B_TPLL) requires a permit for the removal of any tree with cumulative trunk circumference of 155 cm or more measured at 1 metre above ground level.

- 77 trees will trigger permit requirement under Bayside TPLL and 213 are undersize.

3.3 The City of Port Phillip Tree Protection Local Law (PP_TPLL) requires a permit for the removal of any tree with cumulative trunk circumference of 150 cm or more measured at 1 metre above ground level.

- 50 trees will trigger permit requirement under Port Phillip TPLL and 80 are undersize.

3.4 Sixteen (16) trees and three (3) groups exist within the Bayside Vegetation Protection Overlay – Schedule 1 (VPO1 and would trigger additional permit requirement under VPO1.

3.5 Despite approximately 245 tree features being of a species considered as indigenous to the locale, it is concluded that the majority are planted specimens associated with the coastal plantings around carparks and shared paths or with the wetlands in Elsternwick Park that were established in 1999. Being planted specimens they would not be subject to permit and offset requirements under Native Vegetation Clause 52.17 were they to be removed.

3.6 Based on species, origin and location as well as the trunk circumferences the applicable permit or overlay requirement is identified and summarised for each tree feature in Table 1.

Table 1: Summary of applicable Overlays and / or possible Permit and offset requirement.

LGA	LL_Permit	Count	tree_nos
Bayside	VPO1	13	1, 2, 4, 5, 6, 7, 8, 11, 12, 15, G1, G2, G3
	Undersize	213	3, 9, 10, 13, 14, 135, 138, 140, 142, 144, 147, 148, 149, 150, 151, 152, 156, 157, 158, 161, 162, 163, 164, 165, 166, 168, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 216, 217, 218, 219, 220, 221, 222, 223, 224, 226, 227, 228, 229, 230, 232, 233, 235, 236, 237, 240, 241, 243, 244, 245, 246, 247, 248, 250, 251, 252, 253, 255, 256, 258, 259, 261, 262, 263, 264, 265, 266, 267, 268, 269, 272, 273, 275, 276, 277, 278, 279, 280, 282, 283, 284, 285, 287, 292, 293, 294, 295, 297, 298, 299, 301, 303, 304, 305, 306, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 323, 327, 328, 329, 331, 334, 335, 336, 337, 338, 339, 342, 344, 346, 347, 349, 351, 355, 363, 367, 369, 370, 372, 374, 375, 377, 378, 379, 380, 381, 382, 384, 385, 386, 387, 388, 390, 391, 394, 396, 397, 398, 399, 400, 402, 403, 404, 406, 407, 408, 409, 411, 412, 413, G7, G8, G12, G9, G10, G11, G13, G16, G18, G15, G14, G19
	LL_permit	77	153, 154, 155, 159, 160, 167, 169, 185, 199, 212, 213, 214, 215, 225, 231, 234, 238, 239, 242, 249, 254, 257, 260, 270, 271, 274, 281, 286, 288, 289, 290, 291, 296, 300, 302, 307, 308, 309, 322, 324, 325, 326, 330, 332, 333, 340, 341, 343, 345, 348, 350, 352, 353, 354, 356, 357, 358, 359, 360, 361, 362, 364, 365, 366, 368, 371, 373, 376, 383, 389, 392, 393, 395, 401, 405, 410, G17
Port Phillip	Undersize	80	17, 18, 19, 20, 21, 22, 23, 26, 27, 29, 30, 32, 33, 34, 35, 36, 37, 38, 39, 40, 43, 44, 45, 46, 47, 53, 54, 57, 62, 63, 67, 68, 73, 74, 75, 76, 77, 79, 82, 83, 84, 85, 89, 90, 91, 92, 96, 101, 102, 103, 108, 110, 111, 114, 115, 116, 117, 118, 119, 122, 123, 124, 126, 127, 129, 130, 131, 132, 133, 134, 136, 137, 139, 141, 143, 145, 146, G5, G4, G6
	LL_permit	50	16, 24, 25, 28, 31, 41, 42, 48, 49, 50, 51, 52, 55, 56, 58, 59, 60, 61, 64, 65, 66, 69, 70, 71, 72, 78, 80, 81, 86, 87, 88, 93, 94, 95, 97, 98, 99, 100, 104, 105, 106, 107, 109, 112, 113, 120, 121, 125, 128, 414

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4 Observations

4.1 Four hundred and thirty three (433) tree features were inspected and recorded during the tree assessment within the defined tree study area. They included 414 individual trees and 19 groups of trees comprising approximately 256 constituent trees within the groups.

4.2 The site is highly modified with established sports playing fields, carparks, walking trails, local roads associated with the Elwood Foreshore and extensive parklands, wetlands, revegetation beds and walking trails associated with the Elsternwick Park to the south of Bent Avenue and former Elsternwick golf course to the north of Bent Avenue.

Refer to Plate 1 below.



Plate 1: Aerial view of the tree study area associated with Elwood Diversion Drain.

4.3 **Tree species**

Approximately seventy four (74) different species were recorded during the tree assessment made up of assorted planted native or exotic species. Refer to Table 2 for the thirty (30) most prevalent tree species and their origins recorded during the tree survey.

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Table 2: Tree species and origins – 30 most prevalent.

Botanic name	Common Name	Origin	Count
Eucalyptus camaldulensis	River Red Gum	Indigenous (Planted)	100
Allocasuarina verticillata	Drooping She-oak	Indigenous (Planted)	33
Lagunaria patersonia	Norfolk Island Hibiscus	Australian native	26
Eucalyptus melliodora	Yellow Box	Indigenous (Planted)	25
Banksia integrifolia	Coast Banksia	Indigenous (Planted)	20
Eucalyptus ovata	Swamp Gum	Indigenous (Planted)	18
Corymbia maculata	Spotted Gum	Victorian native	17
Acacia implexa	Lightwood	Indigenous (Planted)	11
Melaleuca armillaris	Bracelet Honey-myrtle	Victorian native	11
Melaleuca styphelioides	Prickly-leaved Paperbark	Australian native	10
Bursaria spinosa	Sweet Bursaria	Indigenous (Planted)	8
Lophostemon confertus	Brush Box	Australian native	8
Acacia melanoxylon	Blackwood	Indigenous (Planted)	7
Fraxinus angustifolia	Narrow-leaved Ash	Exotic deciduous	7
Leptospermum laevigatum	Coast Tea-tree	Indigenous (Planted)	6
Myoporum insulare	Boobialla	Indigenous (Planted)	6
Araucaria heterophylla	Norfolk Island Pine	Australian conifer	5
Cupressus macrocarpa	Monterey Cypress	Exotic conifer	5
Eucalyptus botryoides	Southern Mahogany	Victorian native	5
Fraxinus angustifolia subsp. angustifolia	Desert Ash	Exotic deciduous	5
Pittosporum undulatum	Sweet Pittosporum	Victorian native	5
Callitris rhomboidea	Port Jackson Pine	Australian conifer	4
Eucalyptus sideroxylon	Red Ironbark	Australian native	4
Ligustrum lucidum	Shining Privet	Exotic evergreen	4
Prunus cerasifera 'Nigra'	Purple Leaf Cherry Plum	Exotic deciduous	4
Corymbia ficifolia	Red-flowering Gum	Australian native	3
Corynocarpus laevigatus	Karaka	Exotic evergreen	3
Ficus rubiginosa	Port Jackson Fig	Australian native	3
Gleditsia triacanthos	Honey Locust	Exotic deciduous	3
Quercus ilex	Holly Oak	Exotic evergreen	3

4.4 A summary of the tree population sorted by Origin is provided below in Table 3:

Table 3: Trees by origin

origin_typ	Count of origin_typ
Indigenous (Planted)	244
Indigenous (Planted), Victorian native	1
Victorian native	41
Australian native	73
Australian conifer	10
Exotic deciduous	30
Exotic evergreen	20
Exotic conifer	11
Exotic evergreen, Exotic deciduous	1
Exotic palm	2
Grand Total	433

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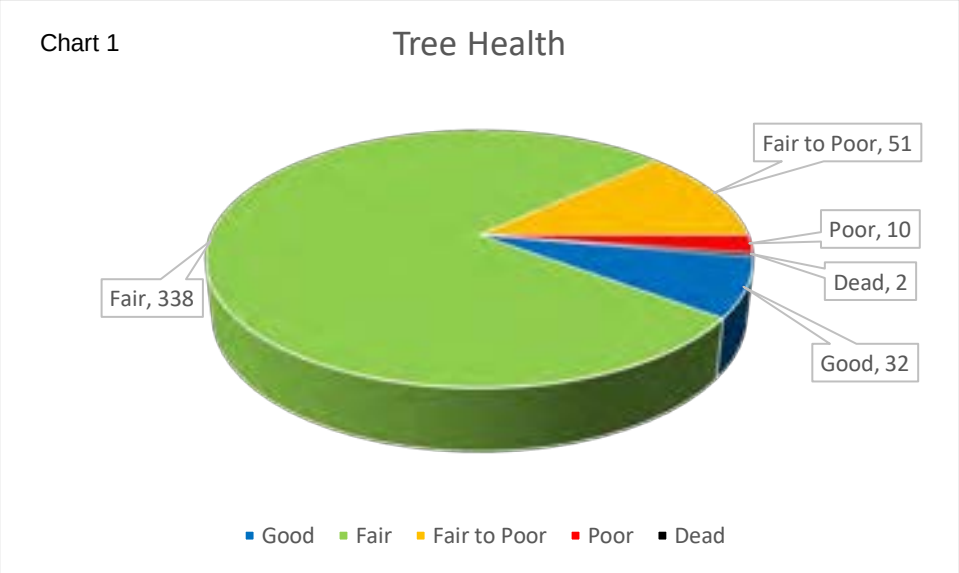
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4.5 **Tree health** was assessed based on foliage colour, size and density as well as shoot initiation and elongation where possible.

The majority of trees displayed Fair or better health with typical or better foliage colour, size and density and shoot extension.

Refer to Chart 1 below for a summary of Tree Health rating.

Chart 1

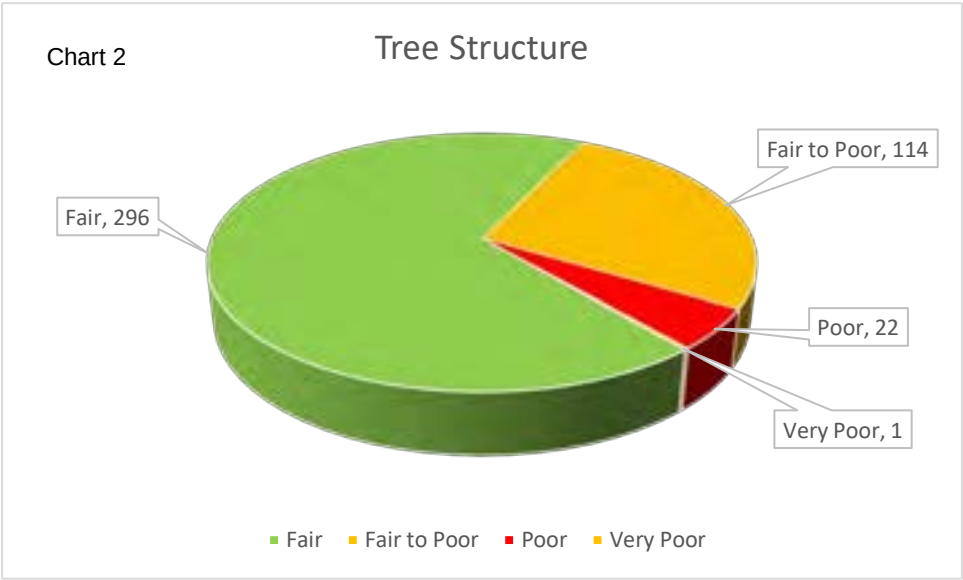


4.6 **Tree structure** was assessed for structural defects and deficiencies and likelihood of failures.

The majority of trees were considered to display Fair or better Structure attributable to the high level of maintenance afforded to the trees and the landscape within the public open space managed by both councils.

Refer to Chart 2 below for a summary of Tree Structure ratings.

Chart 2



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4.7 Arboricultural Rating

The assessed trees were attributed an arboricultural rating. This rating relates to the combination of tree condition factors, including health and structure (arboricultural merit), and also conveys an amenity value.

It should be noted that the arboricultural rating is different to the conservation/ecological values placed on trees by other professions. Refer to Table 4:

Table 4: Tree numbers sorted by Arboricultural ratings.

Arboricultural rating	Count	Tree numbers
High	3	55, 61, 94
Moderate A	35	16, 49, 52, 56, 58, 64, 78, 86, 100, 121, 125, 163, 212, 213, 214, 215, 225, 231, 239, 242, 249, 262, 270, 286, 288, 290, 300, 308, 309, 310, 332, 333, 352, 353, 399
Moderate B	173	3, 4, 6, 7, 8, 18, 19, 21, 23, 24, 30, 31, 40, 41, 42, 44, 46, 47, 48, 50, 51, 54, 57, 60, 62, 65, 66, 67, 68, 69, 70, 71, 72, 73, 82, 87, 89, 90, 93, 95, 96, 97, 99, 104, 105, 107, 109, 110, 111, 112, 113, 114, 117, 126, 128, 129, 133, 134, 135, 138, 140, 143, 148, 149, 150, 151, 152, 153, 154, 155, 160, 161, 162, 165, 168, 169, 170, 171, 172, 173, 181, 194, 196, 203, 204, 205, 206, 208, 209, 211, 220, 221, 226, 228, 229, 234, 236, 237, 238, 244, 245, 246, 248, 251, 254, 257, 260, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 285, 287, 289, 291, 292, 293, 294, 296, 298, 299, 301, 302, 304, 305, 307, 315, 317, 318, 320, 321, 327, 329, 330, 331, 336, 340, 341, 342, 343, 344, 345, 349, 350, 355, 356, 362, 363, 372, 389, 392, 393, 395, 398, 401, 402, 407, 408, 410, 412, 413, 414, G6, G14
Moderate C	155	1, 2, 5, 9, 10, 11, 12, 13, 15, 17, 20, 22, 25, 26, 27, 28, 29, 32, 33, 34, 38, 43, 45, 53, 74, 75, 76, 77, 79, 81, 85, 88, 122, 123, 124, 127, 130, 131, 132, 136, 137, 139, 141, 144, 145, 146, 147, 156, 157, 158, 159, 164, 166, 167, 174, 175, 176, 177, 179, 180, 183, 185, 188, 190, 191, 192, 193, 195, 198, 200, 201, 202, 210, 216, 217, 222, 224, 227, 230, 232, 233, 235, 240, 241, 243, 247, 250, 252, 253, 255, 256, 258, 259, 261, 263, 264, 265, 266, 267, 268, 284, 295, 297, 303, 306, 311, 312, 313, 314, 316, 319, 323, 324, 325, 326, 328, 334, 335, 337, 338, 339, 346, 351, 358, 360, 361, 365, 366, 368, 369, 377, 378, 379, 394, 396, 397, 400, 403, 404, 405, 406, 409, 411, G1, G2, G3, G5, G7, G8, G12, G9, G10, G11, G15, G19
Low	58	14, 35, 36, 37, 39, 59, 63, 80, 83, 84, 91, 92, 98, 101, 102, 103, 106, 115, 116, 118, 119, 120, 142, 182, 184, 186, 187, 189, 197, 199, 207, 218, 223, 269, 322, 347, 348, 357, 359, 364, 367, 370, 371, 376, 380, 381, 382, 383, 384, 385, 386, 387, 388, 390, 391, G4, G13, G17
Very Low	9	108, 178, 219, 354, 373, 374, 375, G16, G18
Total	433	

- Trees rated High or Moderate A are generally prominent trees and a feature of the surrounding landscape that display better than typical characteristics of the species growing in this setting under prevailing conditions. High rated trees have additional significance associated with age, being indigenous or exceptional quality.
- Trees rated Moderate B are typical examples of the species growing in this setting under prevailing conditions.
- Trees attributed a rating of Moderate C are either small trees in Fair condition or maturing trees with health or structural deficiencies and that are trending towards becoming of Low arboricultural value.
- Trees rated Low may be retained if not directly impacted by any proposed works but are generally not worthy of being a constraint on reasonable design intent and outcome delivery.
- Trees rated Very Low are mostly defective, dead or declining and are generally unsuitable to retain.

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5 Tree Protection Zones

The Tree Protection Zones (TPZs) provided for each tree in the Tree Assessment Table in Appendix 1 are calculated using the formula provided in the Australian Standard AS4970 where the Radial TPZ = Trunk diameter (DBH) measured in metres at 1.4m above grade and multiplied by 12.
TPZ distances are measured as a radius from the centre of the trunk at (or near) ground level.
The method for calculating, applying and managing the tree protection zone is described in Appendix 4.

The TPZ forms an area around a tree or group of trees that addresses both the stability and growing requirements of a tree. Construction and worksite activities within the TPZ need to be determined to assess their impacts in order to preserve tree condition.

Minor encroachment, up to 10% of the TPZ area, is generally permissible provided encroachment is compensated for by recruitment of an equal area contiguous with the TPZ. Encroachment greater than 10% is considered major encroachment under AS4970 and is only permissible if it can be demonstrated that after such encroachment the tree would remain viable. Refer to Figure 2A and 2B.

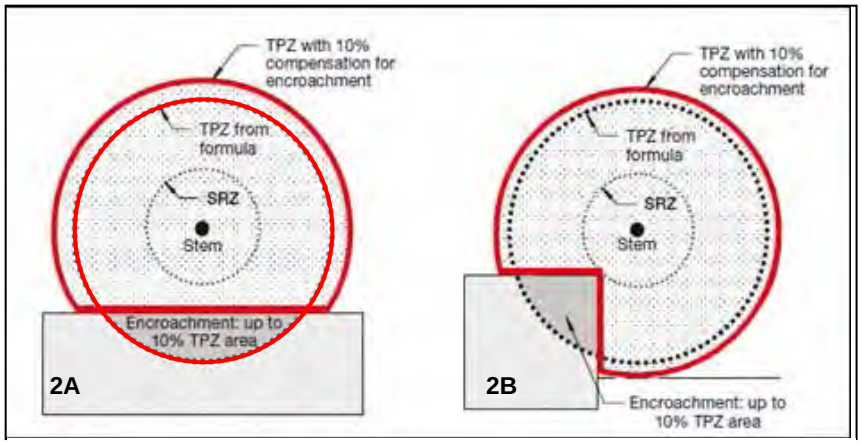


Figure 2: 2A & 2B - Examples of minor encroachment into a TPZ.
Extract from: AS4970-2009, Appendix D, pg. 30 of 32

Existing built form or other landscape elements that are present within the TPZ that may have either restricted root development or have effectively shut out water and oxygen to any underlying tree roots should be considered when allocating TPZ and any level of TPZ encroachment by new works.

The Structural Root Zone (SRZ) provided for each tree has been calculated using the method provided in AS4970. The SRZ is the area in which the larger woody roots required for tree stability are found close to the trunk and which then generally taper rapidly. This is the minimum area recommended to maintain tree stability but does not reflect the area required to sustain tree health. No works should occur within the SRZ radius as tree stability could be compromised.
See Appendix 4 for TPZ establishment and types of encroachment.

Trees that are under third party ownership must be afforded due consideration and minimum tree protection requirements during any construction works to ensure they are successfully sustained.
All TPZ measurements are provided in the tree assessment data in Appendix 1.

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6 Design review and Tree impact assessment

The pre – development arboricultural inspection report provides planners and designers with information on whether trees are worthy or not of being a constraint on the proposed repurposing of the site.

It also provides a basis on which to identify when and where potential impacts to trees will occur from various design elements and evaluates the possible severity of the impact during the design phase of any site redevelopment.

Trees grow in a delicate balance with their environment and any changes to that balance must be minimised if a tree is to remain in a healthy state and fulfil its potential.
It is rarely possible to repair stressed and injured trees, so damage needs to be avoided during all stages of development and construction.
Tree protection cannot be achieved without a proactive approach. The planning and design stages of any construction project can be instrumental and determine the success of tree preservation.

The hierarchy of principles for tree protection are:

- Avoid damage to the subject trees
- Minimize damage to the subject trees
- Replace the subject trees and improve the landscape (as a last resort).

6.1 At the time of preparing the tree impact assessment report plans of the southern extents of the proposed culvert duplication and associated works were provided for review. The plans show works extending from the Bay Outlet, across the Elwood recreational reserve, across Ormond Esplanade and into the south-western corner of Elsternwick Park. The plans include the existing culvert, immediate construction impact zone, access paths, crane operation areas, storage & turning areas, site sheds and paths of access & egress.

6.2 The existing culvert has been factored into the impact assessment though it is understood that in some areas there will be no alteration to existing conditions, where as in other areas works will occur on both sides of the existing culvert which are likely to cause impacts to trees above the culvert.

6.3 Based on a review of the site plans the following impacts have been identified;

- Two hundred & sixty one (261) trees can be retained without direct impacts. These trees are primarily in the northern section of the tree study area outside the design footprint.
- Eighteen (18) trees will have minor TPZ encroachment of less than 10%.
- Three (3) trees will have major TPZ encroachment of more than 15%.
    - It is noted that Tree 55 has encroachment of 41%, partly associated with the existing culvert and road crossing works. If no change to conditions over the existing drain are required or beyond the excavation of the new culvert, then this tree may be sustainable.

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- Trees 64 & 315 have perceived impacts of 16 & 15% respectively associated with abutting the work zones (not excavation). These trees may be sustainable with appropriate TPZ exclusion fencing and ground buffering.

- Sixteen (16) trees will have construction impacts extending into the Structural Root Zone (SRZ). If excavation works occur within the SRZ there is a high likelihood the trees will decline and potentially fall over. These trees are generally considered to be unsustainable and Lost.
  - If the perceived encroachment does not include direct excavation or other construction impacts and the root zone conditions are not disturbed (i.e. existing hard pavement remains in place) or are abutting the work zone (not excavation), then these trees may be sustainable with appropriate TPZ exclusion fencing and ground buffering.

- One hundred & twenty eight (128) tree features exist within the proposed works footprint and are generally not sustainable and are considered to be Lost.
  - If the perceived encroachment does not include direct excavation or other construction impact and the root zone conditions are not disturbed (i.e. existing hard pavement remains in place) then these trees may be sustainable with appropriate TPZ exclusion fencing and ground buffering.

- Seven (7) groups of trees are partially intersected by the proposed construction footprint. Those individual trees within the group that exist within the construction footprint will need to be removed.
  - Trees within the groups that exist beyond the footprint should be able to be excluded from impact and retained.

6.4 Table 5 provides a summary of tree numbers sorted by perceived impacts.
The impacts are colour-coded to reflect a traffic light system whereby

- Trees shown as Green can be retained & works can proceed with TPZ exclusion fencing isolating the trees from any work zones.
- Yellow trees can be retained & works can proceed with TPZ exclusion fencing established at edge of works where works intersect the TPZ.
- Amber trees may be retained if the design footprint can be reviewed to minimise TPZ encroachment.
- Red trees are considered at risk of dying and falling over unless the design can be amended or if percieved encroachment actually does not require site disruption within the SRZ and TPZ encroachment is minimised to 10% or less.
- Black trees are considered unsustainable being within the construction impact zone (unless the design can be amended or if percieved encroachment actually does not require site disruption).

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Table 5: Summary of perceived tree impacts

Impact	Count	tree_nos
None Can be retained if TPZ exclusion fencing is established and maintained during the full construction process.	261	1, 2, 4, 5, 6, 7, 8, 25, 26, 27, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 53, 60, 61, 62, 63, 73, 79, 99, 101, 102, 106, 108, 110, 122, 123, 135, 138, 140, 142, 144, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 210, 211, 212, 213, 216, 224, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, G12, G13, G16, G17, G18, G15, G14, G19
TPZ Retain with TPZ fencing.	18	20, 21, 24, 28, 52, 100, 103, 104, 105, 107, 109, 121, 124, 157, 214, 217, 223, 225
TPZ_Major * At risk. Review design	3	55, 64, 315
SRZ * At risk of dying & falling over	16	17, 19, 23, 54, 56, 58, 59, 65, 80, 98, 126, 209, 215, 219, 314, 414
Within * Cannot be sustained	128	3, 9, 10, 11, 12, 13, 14, 15, 16, 18, 22, 41, 57, 66, 67, 68, 69, 70, 71, 72, 74, 75, 76, 77, 78, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 125, 127, 128, 129, 130, 131, 132, 133, 134, 136, 137, 139, 141, 143, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 158, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 218, 220, 221, 222, 310, 311, 312, 313, G1, G4, G6, G9
Groups partly Within footprint	7	G2, G3, G5, G7, G8, G10, G11
* Exceptions may apply to these trees if existing culvert or TPZ conditions remain undisturbed		52, 54, 55, 56, 74 to 78, 80, 314, 315, 414

6.5 Retention suitability will ultimately be dependent on the proposed landscape setting in which trees are intended to be retained.

6.6 On the basis of future site safety and potential amenity, preference should be given to retaining trees of High and Moderate arboricultural value in built areas, or areas of increased target potential.

- Small trees of Low arboricultural value that are otherwise in reasonable condition (Fair-poor or better Health and /or Structure) may offer a potential established tree resource, even if only as an interim measure.
- Trees under third party ownership such as roadside and neighbouring trees must be duly protected unless the tree owner authorises works to occur to the tree or within the TPZ.
- Trees of Low arboricultural value should not compromise reasonable design intent.
- Low rated trees with health or structural deficiencies (Poor or worse Health and/or Structure) or trees recognized as environmental weed species should generally be considered for removal based on sound arboricultural opinion.
- Trees attributed and arboricultural rating of Very Low are not suitable to retain and should be removed.

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7 Tree Protection Zone establishment

7.1 The tree protection zones for all trees to be retained within the site must be clearly shown on all design drawings and plans with appropriate notations so that all staff and contractors are aware of the responsibility to protect trees throughout the design, development and delivery of the project.

7.2 Tree Protection Zones must be established prior to commencing any works onsite including demolition, bulk earthworks, trenching, construction, landscaping activity, delivery and storage of materials or placement of site sheds.

7.3 Appropriate tree protection fencing must be maintained around all trees to be retained for the duration of all works on site.

7.4 The part of the TPZ that exists within the subject site must still be protected with appropriate ground buffering materials to avoid adversely impacting the tree by damaging tree roots or compacting the soil within the root zone of the street trees.

7.5 Design should ensure appropriate growing space is allocated for all trees that are to be retained.
If infrastructure is constructed too close to any of the retained trees, there is potential for damage to occur resulting from incremental root growth.
Damage to paving from root activity is most likely to occur within 2 m of the trunk base of a tree where the large woody structural roots may contributes to upheaval. It is recommended that a minimum 2 metre clearance is provided from any tree to any hard paved surface.

7.6 No form of excavation for trenching for installation of underground services is permitted within the nominated TPZ areas for any retained trees without prior consultation with the council and / or site arborist, to avoid severing roots that could be vital to the stability and continued sustainability of the retained trees.

- Trenching for the installation of any and all underground services must be designed to avoid encroaching the TPZ of any retained trees.
- If it is unavoidable that an underground service must pass through a defined TPZ, the service must be installed via directional boring at a minimum depth of 750mm to the top of the bore head.
  All entry and exit points for the boring must be located beyond the TPZ radius.
- Lubricants or waste water from the boring process must not be permitted to enter or contaminate the soils within the TPZ.

7.7 TPZs for council street trees must be fenced to the back of kerb, edge of any foot path or crossover and to the radial distance of the TPZ within the nature strip to prevent storage of materials or spoil or vehicular access damaging the trees or compacting soil within the TPZ. The TPZ fencing should not hinder pedestrian access unless an alternative arrangement has been approved by the relevant authorities.

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7.8 The TPZ fencing must be in the form of either temporary fencing panels with concrete block feet and locked together, water filled barriers with locking pins installed or 2 metre tall star pickets at 2 metre spacing with top wire supporting fluro para-webbing.
Whichever TPZ fencing is used, it must be sufficiently robust to withstand knocks and bumps from plant and machinery, delivery vehicles and effectively exclude or prevent any storage of materials dumping of spoil or waste products being disposed of in the Tree Protection Zone.

7.9 Appropriate signage stating 'Tree Protection Zone- No access' is to be fixed to the fencing to alert people as to importance of the tree protection zone. Refer to Figure 1 for fencing example.



Figure 1. Above left - Example of TPZ fencing above right -Example of TPZ signage.

7.10 The following activities must be excluded from or controlled within the Tree Protection Zones (TPZ) unless otherwise approved by the relevant authority or the Project Arborist.

- Machine excavation (including trenching) for continuous strip footings or installation of underground services or road base.
- Alteration of soil levels including placement of fill unless specified by design & project arborist.
- Storage of wastes or materials (including fuels, oils or chemicals)
- Preparation of or cleaning of any cement products
- Storage and or parking of vehicles or any plant/machinery within TPZ
- Washing down of equipment
- Installation of utilities
- Physical damage of any kind to the tree (including direct attachment of anything into the tree)
- Soil cultivation unless specified by design & project arborist.

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7.11 Temporary facilities and site sheds may be established on existing hard stand if already present within a TPZ providing there is no physical impacts to the trees and no requirement to penetrate the surface within the TPZ for installation of footings or underground services. Access / egress to these facilities must not encroach or compact the native soil within the TPZ.

Refer to Appendix 1 for all tree data, Appendix 2 for Tree Location and TPZ maps and Appendix 3 for Tree Descriptors.

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8 Conclusion

8.1 Tree Logic was engaged to undertake a preliminary inspection and assessment of trees within the specific study area associated with the Melbourne Water Elwood Diversion Drain Project. Refer to Plate 1 for the tree study area.

8.2 Four hundred and thirty three (433) tree features were recorded comprising 414 individual trees and 19 Tree groups (made up of approximately 256 constituent trees within the groups).

8.3 One hundred and forty tree features are subject to permit requirements either under Bayside Vegetation Protection Overlay (VPO) or Bayside and Port Phillip Tree Protection Local Law.

- None of the trees are considered to be subject to permit and offset under Native Vegetation – Clause 52.17 as it was determined that all native vegetation is planted and therefore exempt under Clause 52.17-7.

Refer to Table 1 at Section 3 for tree numbers sorted by permit requirements.

8.4 The trees generally displayed health and structural condition considered to be better than typical for the various species growing in this location under prevailing conditions. This is generally attributable to the higher-than-normal level of routine care and maintenance afforded the trees and landscape by council management teams and contractors.

8.5 Each tree feature was attributed an arboricultural rating which summarises the condition of the tree, its amenity value and contribution to the landscape and its suitability to retain.
Refer to Section 4 for observations of the trees' attributes and Table 4 for tree numbers sorted by Arboricultural ratings.

8.6 A review of the final design alignment and associated construction impact zones was completed based on CAD plans that identify the existing and new culvert alignments, crane locations, access paths, storage & turning areas, site sheds & car parking and required work zones. Results of the tree impact assessment are provided in Section 6 and Table 5, Appendix 1-Tree impact assessment data and Appendix 2B-TPZ impact maps. The impacts are colour-coded to reflect a traffic light system whereby

- Trees shown as Green can be retained & works can proceed with TPZ exclusion fencing
- Yellow trees can be retained & works can proceed with TPZ exclusion fencing at edge of works
- Amber trees may be retained if the design footprint can be reviewed to minimise TPZ encroachment.
- Red trees are considered at risk of dying and falling over (unless the design can be amended or if percieved encroachment actually does not require site disruption)
- Black trees are considered unsustainable being within the construction impact zone (unless the design can be amended or if percieved encroachment actually does not require site disruption).

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8.7 Retention suitability will ultimately be dependent on the proposed landscape setting in which trees are intended to be retained.
On the basis of future site safety and potential amenity, preference should be given to retaining trees of High and Moderate arboricultural value in built areas, or areas of increased target potential.

- Small trees of Low arboricultural value that are otherwise in reasonable condition (Fair-poor or better Health and /or Structure) may offer a potential established tree resource, even if only as an interim measure.
- Trees of Low arboricultural value should not compromise reasonable design intent.
- Low rated trees with health or structural deficiencies (Poor or worse Health and/or Structure) or trees recognized as environmental weed species should generally be considered for removal based on sound arboricultural opinion.
- Trees attributed and arboricultural rating of Very Low are not suitable to retain and should be removed.

8.8 Tree Protection Zone measures must be implemented prior to commencing any works onsite, including demolition, bulk earthworks, trenching, construction, landscaping activity, delivery and storage of materials or placement of site sheds.
Recommendations and guidelines on TPZ establishment and management are provided in Section 6 and Appendix 4

8.9 The tree protection zones for all trees to be retained within the site must be clearly shown on all design drawings and plans with appropriate notations so that all staff and contractors are aware of the responsibility to protect trees throughout the design, development and delivery of the project.

8.10 The tree assessment data is attached in Appendix 1 in tabular form.
The tree location and numbering plans are attached as Appendix 2 with separate colours sorted by Arboricultural rating.

8.11 Tree condition can change rapidly because of environmental and other influences. It is recommended that regular inspections are undertaken to identify changes to tree condition on a 3-to-5-year cycle or following local severe or damaging weather events.

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I am available to answer any questions arising from this report.

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Signed 

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Appendix 1: Tree Assessment Data: Elwood Diversion Drain

Refer to next 17 pages

Key:

DBH = Diameter at breast height (1.4m up trunk) unless otherwise indicated.

Arb. Rating = Arboricultural rating.

TPZ = Tree protection zone in radial metres. SRZ = Structural root zone in radial metres.

Tree impacts are colour-coded to reflect a traffic light system whereby

- Trees shown as Green can be retained & works can proceed with TPZ exclusion fencing
- Yellow trees can be retained & works can proceed with TPZ exclusion fencing at edge of works
- Amber trees may be retained if the design footprint can be reviewed to minimise TPZ encroachment.
- Red trees are considered at risk of dying and falling over (unless the design can be amended or if percieved encroachment actually does not require site disruption)
- Black trees are considered unsustainable being within the construction impact zone (unless the design can be amended or if percieved encroachment actually does not require site disruption).

Definition of the descriptor categories used in the assessment can be seen in Appendix 3.

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treeid	species	comm_name	age_class	origin_typ	dbh_cm	height x width (m)	health	structure	arb_rating	ule_yrs	comments	tpz_rad_m	str_rad_m	LGA	tl_Permit	Impact_name	Impact	%TPZ_enc
1	*Myoporum insulare*	Boobialla	Over-mature	Indigenous (Planted)	14,14 (est.)	3 x 6	Fair	Fair to Poor	Mod.C	6 to 10	Sprawling shrub.	2.4	2.1	BAYSIDE	VPO1	NA	None	0
2	*Myoporum insulare*	Boobialla	Maturing	Indigenous (Planted)	16,15 (est.)	4 x 6	Fair	Fair	Mod.C	6 to 10	Sprawling shrub.	2.6	2.1	BAYSIDE	VPO1	NA	None	0
3	*Tamarix sp.*	Tamarisk	Early-mature	Exotic evergreen	8,8,7,6 (est.)	4 x 6	Fair	Fair to Poor	Mod.B	11 to 20	Sprawling shrub.	2	1.8	BAYSIDE	BS_Undersize	Storage/Turning area - 100.01%	Within	100.01
4	*Banksia integrifolia*	Coast Banksia	Early-mature	Indigenous (Planted)	18,17,17,16 (est.)	6 x 6	Fair	Fair	Mod.B	21 to 40	Vine infested. At base.	4.1	2.1	BAYSIDE	VPO1	NA	None	0
5	*Banksia integrifolia*	Coast Banksia	Semi-mature	Indigenous (Planted)	15 (est.)	5 x 5	Fair	Fair to Poor	Mod.C	11 to 20	Vine infested.	2	1.7	BAYSIDE	VPO1	NA	None	0
6	*Allocasuarina verticillata*	Drooping She-oak	Maturing	Indigenous (Planted)	54	5 x 7	Good	Fair	Mod.B	11 to 20	Over-extended limbs developing, west.	6.5	2.7	BAYSIDE	VPO1	NA	None	0
7	*Banksia integrifolia*	Coast Banksia	Maturing	Indigenous (Planted)	54 @0.8m	10 x 7	Fair	Fair	Mod.B	21 to 40	Past limb failure.	6.5	2.7	BAYSIDE	VPO1	NA	None	0
8	*Allocasuarina verticillata*	Drooping She-oak	Early-mature	Indigenous (Planted)	30 (est.)	5 x 6	Fair	Fair	Mod.B	11 to 20	Over-extended limbs developing, ne. Wind-swept.	3.6	2.1	BAYSIDE	VPO1	NA	None	0
9	*Cupressus macrocarpa*	Monterey Cypress	Early-mature	Exotic conifer	23 (est.)	4 x 6	Fair to Poor	Fair to Poor	Mod.C	11 to 20	Neighbour's tree, over-extended limbs developing. Wind-swept.	2.8	2.1	BAYSIDE	BS_Undersize	Access track - 7.4%,Bay2-0503 - 100.0%,Storage/Turning area - 92.59%	Within	100
10	*Acacia saligna*	Golden Wreath Wattle	Semi-mature	Australian native	10,8,7,6 (est.)	2 x 4	Fair	Fair to Poor	Mod.C	6 to 10	Hedged.	2	1.6	BAYSIDE	BS_Undersize	Access track - 54.17%,Bay1-Outlet-0502 - 100.01%,Crane - 100.01%,Crane - 45.83%	Within	100.01
11	*Leptospermum laevigatum*	Coast Tea-tree	Early-mature	Indigenous (Planted)	10,9,8 (est.)	3 x 5	Fair	Fair to Poor	Mod.C	11 to 20	Sprawling tree in garden bed.	2	1.6	BAYSIDE	VPO1	Access track - 100.01%,Bay1-Outlet-0502 - 100.01%,New Culvert - 100.01%	Within	100.01
12	*Leptospermum laevigatum*	Coast Tea-tree	Maturing	Indigenous (Planted)	24	3 x 6	Fair to Poor	Fair to Poor	Mod.C	11 to 20	Trunk leaning, east. Windswept.	2.9	1.9	BAYSIDE	VPO1	Access track - 100.0%,New Culvert - 100.0%	Within	100
13	*Araucaria heterophylla*	Norfolk Island Pine	Early-mature	Australian conifer	18	7 x 4	Fair	Fair	Mod.C	>40	Reduced foliage density.	2.2	1.8	BAYSIDE	BS_Undersize	Access track - 99.99%,New Culvert - 99.99%	Within	99.99
14	*Araucaria heterophylla*	Norfolk Island Pine	Young	Australian conifer	6	2 x 1	Fair to Poor	Fair	Low	21 to 40	Salt-burn.	2	1.5	BAYSIDE	BS_Undersize	Access track - 100.01%,Old drain - 100.01%	Within	100.01
15	*Leptospermum laevigatum*	Coast Tea-tree	Semi-mature	Indigenous (Planted)	4,3,2,2	2 x 2	Fair	Fair to Poor	Mod.C	11 to 20	Sprawling tree in garden bed.	2	1.5	BAYSIDE	VPO1	Access track - 4.19%,Bay1-Outlet-0502 - 100.01%,Old drain - 5.17%	Within	100.01
16	*Phoenix canariensis*	Canary Island Date Palm	Maturing	Exotic palm	100	14 x 6	Fair	Fair	Mod.A	>40	1 row of depleted fronds.	4	3.4	PORT PHILLIP	PP_LL_permit	Access track - 3.45%,Crane - 100.01%,Old drain - 3.49%	Within	100.01
17	*Araucaria heterophylla*	Norfolk Island Pine	Early-mature	Australian conifer	33	8 x 6	Fair	Fair to Poor	Mod.C	11 to 20	Incipient decay, trunk wounds, west.	4	2.2	PORT PHILLIP	PP_Undersize	Access track - 33.3%,Access track2 - 30.56%,Old drain - 14.37%	SRZ	38.92
18	*Allocasuarina verticillata*	Drooping She-oak	Maturing	Indigenous (Planted)	26	6 x 5	Fair	Fair	Mod.B	21 to 40	Acute forks.	3.1	2.2	PORT PHILLIP	PP_Undersize	Access track - 35.98%,Access track2 - 29.79%,Old drain - 66.17%	Within	82.15
19	*Banksia integrifolia*	Coast Banksia	Early-mature	Indigenous (Planted)	32	6 x 5	Fair	Fair	Mod.B	21 to 40		3.8	2.2	PORT PHILLIP	PP_Undersize	Old drain - 18.95%	SRZ	18.95
20	*Banksia integrifolia*	Coast Banksia	Semi-mature	Indigenous (Planted)	10,6 (est.)	4 x 2	Fair	Fair	Mod.C	21 to 40	Vine infested.	2	1.5	PORT PHILLIP	PP_Undersize	Access track - 3.33%,Access track2 - 3.26%	TPZ	3.33
21	*Banksia integrifolia*	Coast Banksia	Early-mature	Indigenous (Planted)	28,15 (est.)	6 x 5	Fair	Fair	Mod.B	21 to 40	Trunk obscured by vine.	3.8	2.2	PORT PHILLIP	PP_Undersize	Access track - 2.41%,Access track2 - 2.33%	TPZ	2.41
22	*Leptospermum laevigatum*	Coast Tea-tree	Early-mature	Indigenous (Planted)	11,7,5,4 (est.)	3 x 4	Fair	Fair	Mod.C	11 to 20	Vine infested.	2	1.6	PORT PHILLIP	PP_Undersize	Access track - 52.47%,Access track2 - 42.51%	Within	52.47
23	*Banksia integrifolia*	Coast Banksia	Early-mature	Indigenous (Planted)	38 @0.8m	7 x 6	Fair	Fair	Mod.B	21 to 40		4.6	2.3	PORT PHILLIP	PP_Undersize	Access track - 0.82%,Access track2 - 2.88%,Crane - 32.68%	SRZ	35.55
24	*Banksia integrifolia*	Coast Banksia	Maturing	Indigenous (Planted)	19,18,16,14	5 x 5	Fair	Fair	Mod.B	11 to 20		4	2.4	PORT PHILLIP	PP_LL_permit	Crane - 8.03%	TPZ	8.03
25	*Banksia integrifolia*	Coast Banksia	Maturing	Indigenous (Planted)	15,11,11,10,7	5 x 5	Fair	Fair to Poor	Mod.C	11 to 20		2.9	2.2	PORT PHILLIP	PP_LL_permit	NA	None	0

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treeid	species	comm_name	age_class	origin_typ	dbh_cm	height x width (m)	health	structure	arb_rating	ule_yrs	comments	impact_radius	structural_radius	LGA	LL_permit	Impact_name	impact	%TPZ_enc
26	*Myoporum insulare*	Boobialla	Early-mature	Indigenous (Planted)	15,7,6,5 (est.)	2 x 4	Fair	Fair to Poor	Mod.C	11 to 20		2	1.7	PORT PHILLIP	PP_Undersize	NA	None	0
27	*Banksia integrifolia*	Coast Banksia	Early-mature	Indigenous (Planted)	24	4 x 4	Fair to Poor	Fair	Mod.C	11 to 20	Minor dieback, nth.	2.9	1.9	PORT PHILLIP	PP_Undersize	NA	None	0
28	*Banksia integrifolia*	Coast Banksia	Maturing	Indigenous (Planted)	26,23,17	7 x 6	Fair to Poor	Fair	Mod.C	11 to 20	Tip dieback.	4.6	2.4	PORT PHILLIP	PP_LL_permit	Crane - 0.66%	TPZ	0.66
29	*Banksia integrifolia*	Coast Banksia	Semi-mature	Indigenous (Planted)	13,12	3 x 3	Fair	Fair	Mod.C	11 to 20		2.1	1.8	PORT PHILLIP	PP_Undersize	NA	None	0
30	*Banksia integrifolia*	Coast Banksia	Early-mature	Indigenous (Planted)	16,13	5 x 3	Fair	Fair	Mod.B	11 to 20		2.5	1.8	PORT PHILLIP	PP_Undersize	NA	None	0
31	*Banksia integrifolia*	Coast Banksia	Early-mature	Indigenous (Planted)	25,24,20	6 x 7	Fair	Fair	Mod.B	11 to 20	Reduced foliage density. In new cut-out.	4.8	2.4	PORT PHILLIP	PP_LL_permit	NA	None	0
32	*Leptospermum laevigatum*	Coast Tea-tree	Semi-mature	Indigenous (Planted)	12	3 x 2	Fair	Fair	Mod.C	21 to 40	Trunk leaning, east.	2	1.5	PORT PHILLIP	PP_Undersize	NA	None	0
33	*Allocasuarina verticillata*	Drooping She-oak	Semi-mature	Indigenous (Planted)	16,12,11 (est.)	4 x 4	Fair	Fair	Mod.C	21 to 40	Partly suppressed - crown bias, nth.	2.7	1.7	PORT PHILLIP	PP_Undersize	NA	None	0
34	*Allocasuarina verticillata*	Drooping She-oak	Semi-mature	Indigenous (Planted)	14,12,10	4 x 4	Fair	Fair	Mod.C	21 to 40		2.5	1.6	PORT PHILLIP	PP_Undersize	NA	None	0
35	*Acacia paradoxa*	Hedge Wattle	Early-mature	Victorian native	8,6,6,5	3 x 4	Fair	Fair	Low	6 to 10		2	1.5	PORT PHILLIP	PP_Undersize	NA	None	0
36	*Allocasuarina verticillata*	Drooping She-oak	Semi-mature	Indigenous (Planted)	10 (est.)	3 x 3	Fair	Fair	Low	6 to 10		2	1.5	PORT PHILLIP	PP_Undersize	NA	None	0
37	*Myoporum insulare*	Boobialla	Early-mature	Indigenous (Planted)	8 (multi-stem)	3 x 4	Fair	Fair to Poor	Low	11 to 20	Multi-stemmed, shrub.	2	1.5	PORT PHILLIP	PP_Undersize	NA	None	0
38	*Allocasuarina verticillata*	Drooping She-oak	Semi-mature	Indigenous (Planted)	15,13	3 x 3	Fair	Fair	Mod.C	21 to 40		2.4	1.7	PORT PHILLIP	PP_Undersize	NA	None	0
39	*Myoporum insulare*	Boobialla	Early-mature	Indigenous (Planted)	8	3 x 4	Fair	Fair to Poor	Low	11 to 20	Multi-stemmed, shrub.	2	1.5	PORT PHILLIP	PP_Undersize	NA	None	0
40	*Allocasuarina verticillata*	Drooping She-oak	Early-mature	Indigenous (Planted)	38 (est.)	6 x 6	Good	Fair	Mod.B	21 to 40	Vine infested. On lower trunk.	4.6	2.3	PORT PHILLIP	PP_Undersize	NA	None	0
41	*Banksia integrifolia*	Coast Banksia	Early-mature	Indigenous (Planted)	36,27,26	8 x 7	Fair	Fair	Mod.B	21 to 40		6.2	2.8	PORT PHILLIP	PP_LL_permit	Access track - 7.62%,Access track2 - 9.77%,Crane - 91.56%,Head St Work zone - 2.95%,Site access - 2.95% / (Non-Contiguous Areas: Crane - 8.44%)	Within	100
42	*Allocasuarina verticillata*	Drooping She-oak	Early-mature	Indigenous (Planted)	45,40,20@0.1m	6 x 12	Fair	Fair to Poor	Mod.B	11 to 20	Subsiding limbs, nw.	7.6	2.8	PORT PHILLIP	PP_LL_permit	NA	None	0
43	*Allocasuarina verticillata*	Drooping She-oak	Semi-mature	Indigenous (Planted)	20,16,9	6 x 5	Fair	Fair to Poor	Mod.C	11 to 20	Partly suppressed - crown bias, east.	3.1	2.2	PORT PHILLIP	PP_Undersize	NA	None	0
44	*Allocasuarina verticillata*	Drooping She-oak	Semi-mature	Indigenous (Planted)	23	5 x 5	Good	Fair	Mod.B	21 to 40		2.8	1.8	PORT PHILLIP	PP_Undersize	NA	None	0
45	*Allocasuarina verticillata*	Drooping She-oak	Semi-mature	Indigenous (Planted)	16	4 x 3	Fair	Fair	Mod.C	21 to 40	Partly suppressed - crown bias, east.	2	1.6	PORT PHILLIP	PP_Undersize	NA	None	0
46	*Allocasuarina verticillata*	Drooping She-oak	Semi-mature	Indigenous (Planted)	20	5 x 6	Fair	Fair	Mod.B	21 to 40		2.4	1.8	PORT PHILLIP	PP_Undersize	NA	None	0
47	*Allocasuarina verticillata*	Drooping She-oak	Early-mature	Indigenous (Planted)	24	6 x 6	Good	Fair	Mod.B	21 to 40		2.9	1.9	PORT PHILLIP	PP_Undersize	NA	None	0
48	*Lagunaria patersonia*	Norfolk Island Hibiscus	Early-mature	Australian native	51	11 x 9	Fair	Fair	Mod.B	21 to 40		6.1	2.7	PORT PHILLIP	PP_LL_permit	NA	None	0
49	*Lagunaria patersonia*	Norfolk Island Hibiscus	Maturing	Australian native	54	9 x 9	Fair	Fair	Mod.A	21 to 40		6.5	2.7	PORT PHILLIP	PP_LL_permit	NA	None	0
50	*Lagunaria patersonia*	Norfolk Island Hibiscus	Maturing	Australian native	29,28,25,21,20	9 x 10	Fair	Fair to Poor	Mod.B	21 to 40	Multi-stemmed.	6.7	2.8	PORT PHILLIP	PP_LL_permit	NA	None	0
51	*Corynocarpus laevigatus*	Karaka	Maturing	Exotic evergreen	22,20,17,16	4 x 5	Fair	Fair to Poor	Mod.B	11 to 20		4.5	2.6	PORT PHILLIP	PP_LL_permit	NA	None	0
52	*Lagunaria patersonia*	Norfolk Island Hibiscus	Maturing	Australian native	72 @1.0m	10 x 10	Fair	Fair	Mod.A	21 to 40		8.6	2.9	PORT PHILLIP	PP_LL_permit	Old drain - 4.17%	TPZ	4.17
53	*Callitris rhomboidea*	Port Jackson Pine	Young	Australian conifer	2	2 x 1	Fair to Poor	Fair	Mod.C	11 to 20	Minor dieback.	2	1.5	PORT PHILLIP	PP_Undersize	NA	None	0
54	*Calodendrum capense*	Cape Chestnut	Early-mature	Exotic evergreen	14	4 x 4	Fair	Fair	Mod.B	21 to 40	Reduced foliage density.	2	1.6	PORT PHILLIP	PP_Undersize	Old drain - 30.57%	SRZ	30.57

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treeid	species	comm_name	age_class	origin_typ	dbh_cm	height x width (m)	health	structure	arb_rating	ule_yrs	comments	tpz_rad_m	srz_rad_m	LGA	PL_Permit	Impact_name	Impact	%TPZ_enc
55	*Ficus rubiginosa*	Port Jackson Fig	Maturing	Australian native	107	13 x 20	Good	Fair	High	>40		12.8	3.4	PORT PHILLIP	PP_LL_permit	Head St Work zone - 17.22%,New Culvert - 8.64%,Old drain - 23.63%,Road crossing - 0.2%	TPZ_Major	40.95
56	*Lagunaria patersonia*	Norfolk Island Hibiscus	Maturing	Australian native	87 @1.0m	10 x 11	Fair	Fair	Mod.A	21 to 40		10.4	3.2	PORT PHILLIP	PP_LL_permit	Head St Work zone - 26.05%,New Culvert - 13.32%,Old drain - 5.13%,Road crossing - 25.26%	SRZ	50.12
57	*Lagunaria patersonia*	Norfolk Island Hibiscus	Early-mature	Australian native	37	7 x 8	Fair	Fair	Mod.B	>40		4.4	2.3	PORT PHILLIP	PP_Undersize	Crane - 56.83%,Crane - 48.6%,Head St Work zone - 34.83%,New Culvert - 37.04%,Road crossing - 51.4% / (Non-Contiguous Areas: Head St Work zone - 8.56%)	Within	100.01
58	*Lagunaria patersonia*	Norfolk Island Hibiscus	Maturing	Australian native	68 @1.0m	10 x 8	Fair	Fair	Mod.A	21 to 40		8.2	2.8	PORT PHILLIP	PP_LL_permit	Head St Work zone - 33.25%,Road crossing - 31.02%	SRZ	42.11
59	*Ligustrum lucidum 'Tricolour'*	Tricolor Privet	Maturing	Exotic evergreen	17,15,15,15,12	4 x 5	Fair to Poor	Fair to Poor	Low	6 to 10	30-40% dieback & reverting to green.	4	2.2	PORT PHILLIP	PP_LL_permit	Head St Work zone - 39.73%	SRZ	39.73
60	*Lagunaria patersonia*	Norfolk Island Hibiscus	Early-mature	Australian native	35,36,18	10 x 7	Fair	Fair	Mod.B	21 to 40	Partly suppressed - crown bias, east.	6.4	2.6	PORT PHILLIP	PP_LL_permit	NA	None	0
61	*Ficus rubiginosa*	Port Jackson Fig	Maturing	Australian native	113@1.0m	15 x 25	Good	Fair	High	>40		13.6	3.5	PORT PHILLIP	PP_LL_permit	NA	None	0
62	*Lagunaria patersonia*	Norfolk Island Hibiscus	Early-mature	Australian native	43@1.2m	7 x 6	Fair	Fair to Poor	Mod.B	11 to 20	Past powerline clearance.	5.2	2.4	PORT PHILLIP	PP_Undersize	NA	None	0
63	*Melaleuca styphelioides*	Prickly-leaved Paperbark	Semi-mature	Australian native	20,18	5 x 4	Fair	Fair to Poor	Low	11 to 20	Partly suppressed - crown bias west.	3.2	2.1	PORT PHILLIP	PP_Undersize	NA	None	0
64	*Eucalyptus botryoides*	Southern Mahogany	Maturing	Victorian native	109	25 x 19	Fair	Fair	Mod.A	21 to 40		13.1	3.7	PORT PHILLIP	PP_LL_permit	Head St Work zone - 16.3%	TPZ_Major	16.3
65	*Melaleuca styphelioides*	Prickly-leaved Paperbark	Early-mature	Australian native	43,35	7 x 9	Fair	Fair	Mod.B	21 to 40	Northeast.	6.7	2.6	PORT PHILLIP	PP_LL_permit	Head St Work zone - 31.57%	SRZ	31.57
66	*Melaleuca styphelioides*	Prickly-leaved Paperbark	Early-mature	Australian native	49,30	7 x 9	Fair	Fair	Mod.B	11 to 20		6.9	2.7	PORT PHILLIP	PP_LL_permit	Head St Work zone - 69.16%	Within	69.16
67	*Grevillea robusta*	Silky Oak	Early-mature	Australian native	28	8 x 7	Fair to Poor	Fair	Mod.B	>40		3.4	2.1	PORT PHILLIP	PP_Undersize	Head St Work zone - 100.0%	Within	100
68	*Corymbia ficifolia*	Red-flowering Gum	Early-mature	Australian native	24	6 x 5	Fair	Fair	Mod.B	>40	Basal wound to SW likely from mowing.	2.9	2	PORT PHILLIP	PP_Undersize	Head St Work zone - 100.0%	Within	100
69	*Cupressus macrocarpa 'Goldcrest'*	Golden Monterey Cypress	Maturing	Exotic conifer	60,51,44,37	13 x 13	Fair	Fair to Poor	Mod.B	21 to 40	Past failures, one stem reduced.	11.7	3.3	PORT PHILLIP	PP_LL_permit	Crane - 30.97%,Head St Work zone - 69.02%	Within	100
70	*Melaleuca styphelioides*	Prickly-leaved Paperbark	Maturing	Australian native	44,30,22	8 x 10	Fair	Fair	Mod.B	21 to 40	Reduced foliage density.	6.9	3.1	PORT PHILLIP	PP_LL_permit	Crane - 49.57%,Head St Work zone - 50.43%	Within	100
71	*Melaleuca styphelioides*	Prickly-leaved Paperbark	Maturing	Australian native	41,38	7 x 9	Fair	Fair	Mod.B	21 to 40		6.7	2.5	PORT PHILLIP	PP_LL_permit	Crane - 81.21%,Head St Work zone - 19.06%,New Culvert - 18.99%	Within	100
72	*Melaleuca styphelioides*	Prickly-leaved Paperbark	Maturing	Australian native	38,34,33	9 x 11	Fair	Fair	Mod.B	21 to 40		7.3	2.8	PORT PHILLIP	PP_LL_permit	Head St Work zone - 99.92%,New Culvert - 92.69%	Within	99.92
73	*Brachychiton acerifolius*	Illawarra Flame Tree	Semi-mature	Australian native	18	4 x 4	Good	Fair	Mod.B	>40		2.2	1.7	PORT PHILLIP	PP_Undersize	NA	None	0
74	*Ficus macrophylla*	Moreton Bay Fig	Semi-mature	Australian native	11	4 x 2	Fair	Fair	Mod.C	>40		2	1.6	PORT PHILLIP	PP_Undersize	Old drain - 100.01%	Within	100.01
75	*Callitris rhomboidea*	Port Jackson Pine	Young	Australian conifer	6	3 x 1	Fair	Fair	Mod.C	21 to 40		2	1.5	PORT PHILLIP	PP_Undersize	Old drain - 100.01%	Within	100.01
76	*Callitris rhomboidea*	Port Jackson Pine	Young	Australian conifer	6	2 x 1	Fair	Fair	Mod.C	11 to 20		2	1.5	PORT PHILLIP	PP_Undersize	Old drain - 100.01%	Within	100.01
77	*Callitris rhomboidea*	Port Jackson Pine	Young	Australian conifer	3	2 x 1	Fair to Poor	Fair	Mod.C	11 to 20	Minor dieback.	2	1.5	PORT PHILLIP	PP_Undersize	Old drain - 100.01%	Within	100.01
78	*Lagunaria patersonia*	Norfolk Island Hibiscus	Maturing	Australian native	53	9 x 10	Good	Fair	Mod.A	21 to 40		6.4	2.8	PORT PHILLIP	PP_LL_permit	Old drain - 63.54%	Within	63.54

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79	*Agonis flexuosa*	Willow Myrtle	Young	Australian native	2	2 x 1	Fair	Fair	Mod.C	11 to 40		2	1.5	PORT PHILLIP	PP_Undersize	NA	None	0
80	*Cotoneaster sp.*	Cotoneaster	Maturing	Exotic evergreen	23,22,20,18,16	5 x 8	Fair to Poor	Fair to Poor	Low	6 to 10	Minor dieback, woody weed sp	5.4	3	PORT PHILLIP	PP_LL_permit	Head St Work zone - 26.46%,Old drain - 25.97%	SRZ	52.44
81	*Corynocarpus laevigatus*	Karaka	Maturing	Exotic evergreen	20,18,16,16,12	5 x 6	Fair to Poor	Fair to Poor	Mod.C	11 to 20	Minor dieback.	4.5	2.8	PORT PHILLIP	PP_LL_permit	Head St Work zone - 96.28%,New Culvert - 2.09%	Within	96.28
82	*Lagunaria patersonia*	Norfolk Island Hibiscus	Early-mature	Australian native	37	9 x 8	Fair	Fair	Mod.B	21 to 40		4.4	2.3	PORT PHILLIP	PP_Undersize	Head St Work zone - 100.01%,New Culvert - 21.12%	Within	100.01
83	*Ficus carica*	Common Fig	Semi-mature	Exotic deciduous	10,8,8	3 x 4	Fair to Poor	Fair to Poor	Low	1 to 5	Growing through fence & against building.	2	1.8	PORT PHILLIP	PP_Undersize	Head St Work zone - 100.01%	Within	100.01
84	*Cordyline australis*	Cabbage Tree	Early-mature	Exotic evergreen	20,20 (est.)	4 x 3	Fair to Poor	Poor	Low	1 to 5	Ivy on trunk.	3.4	2.1	PORT PHILLIP	PP_Undersize	Head St Work zone - 100.0%,New Culvert - 85.64%	Within	100
85	*Araucaria heterophylla*	Norfolk Island Pine	Early-mature	Australian conifer	44	16 x 8	Fair to Poor	Fair	Mod.C	21 to 40	Reduced foliage density.	5.3	2.5	PORT PHILLIP	PP_Undersize	Crane - 5.48%,Head St Work zone - 94.63%,New Culvert - 94.64%	Within	100
86	*Ulmus parvifolia*	Chinese Elm	Maturing	Exotic deciduous	40,27	11 x 16	Fair	Fair	Mod.A	21 to 40	Over-extended limbs developing. & down to ground level.	5.8	2.5	PORT PHILLIP	PP_LL_permit	Crane - 34.32%,Head St Work zone - 65.89%,New Culvert - 65.9%	Within	100
87	*Lagunaria patersonia*	Norfolk Island Hibiscus	Maturing	Australian native	47,39,27	11 x 10	Fair	Fair	Mod.B	11 to 20	Close to entrance path.	8	2.9	PORT PHILLIP	PP_LL_permit	Crane - 73.28%,Head St Work zone - 26.72%	Within	100
88	*Corynocarpus laevigatus*	Karaka	Maturing	Exotic evergreen	15,15,14,13 (multi-stem)	6 x 6	Fair	Fair	Mod.C	11 to 20		3.4	2.5	PORT PHILLIP	PP_LL_permit	Crane - 54.77%,Head St Work zone - 45.23%	Within	100
89	*Quercus ilex*	Holly Oak	Early-mature	Exotic evergreen	24,17 (est.)	5 x 7	Fair	Fair to Poor	Mod.B	11 to 20	Hedged along path.	3.5	2.2	PORT PHILLIP	PP_Undersize	Crane - 1.76%,Head St Work zone - 98.24%	Within	99.99
90	*Afrocarpus falcata*	Yellow-wood	Maturing	Exotic conifer	40	11 x 8	Fair	Fair	Mod.B	11 to 20	Trunk leaning, east.	4.8	2.3	PORT PHILLIP	PP_Undersize	Head St Work zone - 100.0%	Within	100
91	*Quercus ilex*	Holly Oak	Early-mature	Exotic evergreen	27 (est.)	6 x 5	Fair	Fair to Poor	Low	11 to 20	Neighbour's tree, partly suppressed - crown bias, nth. Associated w tree in park to east of path.	3.2	2.1	PORT PHILLIP	PP_Undersize	Head St Work zone - 99.99%	Within	99.99
92	*Pittosporum undulatum*	Sweet Pittosporum	Semi-mature	Victorian native	13,9,6	5 x 4	Fair	Fair to Poor	Low	6 to 10	Neighbour's tree, woody weed sp Multi-stemmed Cotoneaster to Sth.	2	1.7	PORT PHILLIP	PP_Undersize	Head St Work zone - 100.01%	Within	100.01
93	*Quercus ilex*	Holly Oak	Early-mature	Exotic evergreen	32, 30, 21	8 x 8	Fair	Fair	Mod.B	21 to 40	Cluster of 3 trees at 1.5m spacing.	5.8	2.2	PORT PHILLIP	PP_LL_permit	Head St Work zone - 94.87%	Within	94.87
94	*Ficus rubiginosa*	Port Jackson Fig	Maturing	Australian native	94 @1.0m	13 x 19	Fair	Fair	High	>40		11.3	3.2	PORT PHILLIP	PP_LL_permit	Crane - 1.13%,Head St Work zone - 86.19% / (Non-Contiguous Areas: Head St Work zone - 13.81%)	Within	100
95	*Melaleuca styphelioides*	Prickly-leaved Paperbark	Maturing	Australian native	52	9 x 9	Fair	Fair	Mod.B	21 to 40		6.2	2.6	PORT PHILLIP	PP_LL_permit	Head St Work zone - 74.87%	Within	74.87
96	*Brachychiton acerifolius*	Illawarra Flame Tree	Semi-mature	Australian native	27	5 x 6	Fair	Fair	Mod.B	>40		3.2	2.1	PORT PHILLIP	PP_Undersize	Head St Work zone - 99.99%	Within	99.99
97	*Melaleuca styphelioides*	Prickly-leaved Paperbark	Early-mature	Australian native	49,31,28	7 x 8	Fair	Fair	Mod.B	21 to 40		7.7	2.8	PORT PHILLIP	PP_LL_permit	Head St Work zone - 72.64%	Within	72.64
98	*Pittosporum undulatum*	Sweet Pittosporum	Early-mature	Victorian native	26,20,18	7 x 7	Fair to Poor	Fair to Poor	Low	6 to 10	Dieback, woody weed sp	4.5	2.6	PORT PHILLIP	PP_LL_permit	Head St Work zone - 30.49%	SRZ	30.49
99	*Melaleuca styphelioides*	Prickly-leaved Paperbark	Early-mature	Australian native	35,25,18	7 x 7	Fair	Fair	Mod.B	21 to 40		5.6	2.5	PORT PHILLIP	PP_LL_permit	NA	None	0
100	*Lagunaria patersonia*	Norfolk Island Hibiscus	Maturing	Australian native	69	10 x 10	Fair	Fair	Mod.A	21 to 40		8.3	2.9	PORT PHILLIP	PP_LL_permit	Head St Work zone - 6.7%	TPZ	6.7
101	*Ligustrum lucidum*	Shining Privet	Semi-mature	Exotic evergreen	15	6 x 4	Fair	Fair to Poor	Low	1 to 5	Woody weed sp	2	1.7	PORT PHILLIP	PP_Undersize	NA	None	0
102	*Ligustrum lucidum*	Shining Privet	Semi-mature	Exotic evergreen	10,8	6 x 5	Fair	Fair to Poor	Low	1 to 5	Woody weed sp	2	1.6	PORT PHILLIP	PP_Undersize	NA	None	0
103	*Ligustrum lucidum*	Shining Privet	Early-mature	Exotic evergreen	15,14,11	6 x 5	Fair	Fair to Poor	Low	1 to 5	Woody weed sp	2.8	2	PORT PHILLIP	PP_Undersize	Head St Work zone - 7.2%	TPZ	7.2
104	*Lagunaria patersonia*	Norfolk Island Hibiscus	Maturing	Australian native	80 (est.)	11 x 10	Fair	Fair	Mod.B	11 to 20	Neighbour's tree.	9.6	3.1	PORT PHILLIP	PP_LL_permit	Head St Work zone - 8.35%	TPZ	8.35

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105	*Lagunaria patersonia*	Norfolk Island Hibiscus	Maturing	Australian native	75 (est.)	10 x 10	Fair to Poor	Fair	Mod.B	11 to 20	Neighbour's tree, reduced foliage density	8	3	PORT PHILLIP	PP_LL_permit	Head St Work zone - 7.11%	TPZ	7.13
106	*Pittosporum undulatum*	Sweet Pittosporum	Semi-mature	Victorian native	22,16,15,14,10	5 x 8	Fair to Poor	Fair to Poor	Low	6 to 10	Neighbour's tree, woody weed sp	4.3	2.6	PORT PHILLIP	PP_LL_permit	NA	None	0
107	*Lagunaria patersonia*	Norfolk Island Hibiscus	Maturing	Australian native	68	10 x 10	Good	Fair	Mod.B	11 to 20	Neighbour's tree.	8.2	2.9	PORT PHILLIP	PP_LL_permit	Head St Work zone - 2.79%	TPZ	2.79
108	*Coprosma repens*	Mirror Bush	Maturing	Exotic evergreen	2,2,2,2 (multi-stem)	2 x 2	Fair	Poor	Very Low	1 to 5	Neighbour's tree, woody weed sp	2	1.5	PORT PHILLIP	PP_Undersize	NA	None	0
109	*Lagunaria patersonia*	Norfolk Island Hibiscus	Maturing	Australian native	71 (est.)	12 x 11	Fair	Fair	Mod.B	11 to 20	Neighbour's tree, woody weed sp	8.5	3	PORT PHILLIP	PP_LL_permit	Head St Work zone - 0.11%,Head St Work zone - 4.44%	TPZ	4.44
110	*Allocasuarina verticillata*	Drooping She-oak	Semi-mature	Indigenous (Planted)	17 @1.0m	4 x 4	Good	Fair	Mod.B	21 to 40		2	1.6	PORT PHILLIP	PP_Undersize	NA	None	0
111	*Lagunaria patersonia*	Norfolk Island Hibiscus	Early-mature	Australian native	23 (est.)	9 x 7	Fair	Fair	Mod.B	21 to 40	Neighbour's tree. In Croquet club.	2.8	1.9	PORT PHILLIP	PP_Undersize	Head St Work zone - 100.0%,New Culvert - 52.78%	Within	100
112	*Lagunaria patersonia*	Norfolk Island Hibiscus	Early-mature	Australian native	35,16 (est.)	10 x 9	Fair	Fair	Mod.B	21 to 40	In Croquet club.	4.6	2.6	PORT PHILLIP	PP_LL_permit	Crane - 0.0%,Head St Work zone - 99.99%,New Culvert - 75.98%	Within	99.99
113	*Fraxinus ornus*	Manna Ash	Maturing	Exotic deciduous	50	12 x 11	Fair	Fair	Mod.B	11 to 20	Graft at base.	6	2.6	PORT PHILLIP	PP_LL_permit	Crane - 4.72%,Head St Work zone - 97.89%,Head St Work zone - 100.0%,Old drain - 94.7%,Site access - 0.01% / (Non-Contiguous Areas: Site access - 4.7%)	Within	100
114	*Allocasuarina verticillata*	Drooping She-oak	Early-mature	Indigenous (Planted)	32	8 x 7	Fair	Fair	Mod.B	21 to 40	Weed infested. W coprosma at base.	3.8	2.2	PORT PHILLIP	PP_Undersize	Crane - 6.96%,Head St Work zone - 100.01%,Old drain - 64.6%,Site access - 0.0%	Within	100.01
115	*Leptospermum laevigatum*	Coast Tea-tree	Maturing	Indigenous (Planted)	25	3 x 6	Fair	Poor	Low	6 to 10	Collapsed-still growing. Along ground.	3	2.6	PORT PHILLIP	PP_Undersize	Head St Work zone - 65.04%,Old drain - 100.01%	Within	100.01
116	*Ligustrum lucidum*	Shining Privet	Early-mature	Exotic evergreen	10,9,8,7	3 x 4	Fair to Poor	Fair to Poor	Low	1 to 5	Dieback, woody weed sp	2	1.8	PORT PHILLIP	PP_Undersize	Old drain - 100.01%	Within	100.01
117	*Lagunaria patersonia*	Norfolk Island Hibiscus	Early-mature	Australian native	25	7 x 5	Fair	Fair	Mod.B	11 to 20	In Croquet club.	3	1.9	PORT PHILLIP	PP_Undersize	Head St Work zone - 26.97%,Old drain - 100.01%	Within	100.01
118	*Pittosporum undulatum*	Sweet Pittosporum	Maturing	Victorian native	32	8 x 5	Fair	Fair to Poor	Low	6 to 10	Woody weed sp In Croquet club.	3.8	2.1	PORT PHILLIP	PP_Undersize	Head St Work zone - 34.38%,Old drain - 100.01%	Within	100.01
119	*Cotoneaster sp.*	Cotoneaster	Maturing	Exotic evergreen	18,11,9 (est.)	5 x 5	Fair	Fair to Poor	Low	1 to 5	Woody weed sp In Croquet club.	2.5	2.3	PORT PHILLIP	PP_Undersize	Head St Work zone - 31.39%,Old drain - 99.98%	Within	99.98
120	*Pittosporum undulatum*	Sweet Pittosporum	Maturing	Victorian native	23,22,18 (est.)	8 x 7	Fair	Fair to Poor	Low	6 to 10	Woody weed sp In Croquet club.	4.4	2.4	PORT PHILLIP	PP_LL_permit	Head St Work zone - 38.07%,Old drain - 83.04%	Within	100.01
121	*Lagunaria patersonia*	Norfolk Island Hibiscus	Maturing	Australian native	61 @1.0m	10 x 11	Good	Fair	Mod.A	21 to 40		7.3	2.8	PORT PHILLIP	PP_LL_permit	Head St Work zone - 2.59%	TPZ	2.59
122	*Lagunaria patersonia*	Norfolk Island Hibiscus	Maturing	Australian native	27	7 x 5	Fair to Poor	Fair	Mod.C	21 to 40	Reduced foliage density.	3.2	2.1	PORT PHILLIP	PP_Undersize	NA	None	0
123	*Allocasuarina verticillata*	Drooping She-oak	Early-mature	Indigenous (Planted)	15	5 x 6	Good	Fair to Poor	Mod.C	21 to 40	Young Coast Banksias planted to SW	2	1.6	PORT PHILLIP	PP_Undersize	NA	None	0
124	*Banksia integrifolia*	Coast Banksia	Young	Indigenous (Planted)	8	3 x 1	Fair	Fair	Mod.C	21 to 40		2	1.5	PORT PHILLIP	PP_Undersize	Head St Work zone - 0.73%	TPZ	0.73
125	*Lagunaria patersonia*	Norfolk Island Hibiscus	Maturing	Australian native	67	10 x 10	Good	Fair	Mod.A	21 to 40		8	2.8	PORT PHILLIP	PP_LL_permit	Head St Work zone - 100.0%,Head St Work zone - 8.41%	Within	100
126	*Allocasuarina verticillata*	Drooping She-oak	Semi-mature	Indigenous (Planted)	15	4 x 4	Good	Fair to Poor	Mod.B	21 to 40		2	1.6	PORT PHILLIP	PP_Undersize	Head St Work zone - 45.65%	SRZ	45.65
127	*Allocasuarina verticillata*	Drooping She-oak	Early-mature	Indigenous (Planted)	16	6 x 6	Fair	Fair	Mod.C	21 to 40	Young Coast Banksias planted to SE & SW.	2	1.6	PORT PHILLIP	PP_Undersize	Head St Work zone - 62.31%,Head St Work zone - 63.33%	Within	63.33
128	*Lagunaria patersonia*	Norfolk Island Hibiscus	Maturing	Australian native	42,32,17	10 x 7	Good	Fair to Poor	Mod.B	21 to 40	Incipient decay, past stem failure, trunk wounds, ne.	6.7	2.9	PORT PHILLIP	PP_LL_permit	Head St Work zone - 100.0%	Within	100
129	*Allocasuarina verticillata*	Drooping She-oak	Early-mature	Indigenous (Planted)	17	4 x 5	Fair	Fair	Mod.B	21 to 40	Trunk kink, Young Coast Banksias planted to SE & SW.	2	1.6	PORT PHILLIP	PP_Undersize	Head St Work zone - 54.31%,Head St Work zone - 55.75%	Within	55.75

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treeid	species	comm_name	age_class	origin_typ	dbh_cm	height x width (m)	health	structure	arb_rating	ule_yrs	comments	tpz_radius_m	srz_radius_m	LGA	LL_Permit	Impact_name	Impact	%TPZ_enc
130	*Allocasuarina verticillata*	Drooping She-oak	Early-mature	Indigenous (Planted)	17	5 x 5	Fair	Fair to Poor	Mod.C	11 to 20	Crossing branches. Young Coast Banksias planted to SE & SW.	2	1.7	PORT PHILLIP	PP_Undersize	Head St Work zone - 85.9%,Head St Work zone - 67.76%	Within	67.76
131	*Allocasuarina verticillata*	Drooping She-oak	Early-mature	Indigenous (Planted)	17	4 x 5	Fair	Fair	Mod.C	21 to 40	Young Coast Banksias planted to SE & SW.	2	1.7	PORT PHILLIP	PP_Undersize	Head St Work zone - 82.52%	Within	82.52
132	*Allocasuarina verticillata*	Drooping She-oak	Early-mature	Indigenous (Planted)	16	3 x 5	Fair	Fair	Mod.C	21 to 40	Young Coast Banksias planted to SE.	2	1.5	PORT PHILLIP	PP_Undersize	Head St Work zone - 92.42%	Within	92.42
133	*Allocasuarina verticillata*	Drooping She-oak	Early-mature	Indigenous (Planted)	22 @1.0m	5 x 6	Fair	Fair	Mod.B	21 to 40	Young Coast Banksias planted to SE & SW.	2.6	1.8	PORT PHILLIP	PP_Undersize	Head St Work zone - 93.49%	Within	93.49
134	*Allocasuarina verticillata*	Drooping She-oak	Semi-mature	Indigenous (Planted)	15,14	4 x 5	Good	Fair	Mod.B	21 to 40	Young Coast Banksias planted to SE & SW.	2.5	1.7	PORT PHILLIP	PP_Undersize	Head St Work zone - 99.17%	Within	99.17
135	*Lagunaria patersonia*	Norfolk Island Hibiscus	Early-mature	Australian native	34	9 x 7	Fair	Fair	Mod.B	11 to 20		4.1	2.3	BAYSIDE	BS_Undersize	NA	None	0
136	*Banksia integrifolia*	Coast Banksia	Semi-mature	Indigenous (Planted)	13	3 x 3	Fair	Fair	Mod.C	>40		2	1.6	PORT PHILLIP	PP_Undersize	Head St Work zone - 74.67%	Within	74.67
137	*Banksia integrifolia*	Coast Banksia	Semi-mature	Indigenous (Planted)	11	3 x 2	Fair	Fair	Mod.C	>40		2	1.5	PORT PHILLIP	PP_Undersize	Head St Work zone - 80.26%	Within	80.26
138	*Quercus palustris*	Pin Oak	Early-mature	Exotic deciduous	18	6 x 6	Fair	Fair	Mod.B	21 to 40		2.2	1.8	BAYSIDE	BS_Undersize	NA	None	0
139	*Banksia integrifolia*	Coast Banksia	Semi-mature	Indigenous (Planted)	14	4 x 3	Fair	Fair	Mod.C	>40		2	1.6	PORT PHILLIP	PP_Undersize	Head St Work zone - 91.7%,New Culvert - 69.9%	Within	91.7
140	*Lagunaria patersonia*	Norfolk Island Hibiscus	Early-mature	Australian native	33	7 x 5	Fair	Fair	Mod.B	21 to 40		4	2.3	BAYSIDE	BS_Undersize	NA	None	0
141	*Banksia integrifolia*	Coast Banksia	Semi-mature	Indigenous (Planted)	14 @1.0m	4 x 3	Fair	Fair	Mod.C	>40		2	1.6	PORT PHILLIP	PP_Undersize	Head St Work zone - 82.52%,New Culvert - 100.01%	Within	100.01
142	*Allocasuarina verticillata*	Drooping She-oak	Young	Indigenous (Planted)	3	1 x 1	Fair	Fair to Poor	Low	6 to 10	Lopped.	2	1.5	BAYSIDE	BS_Undersize	NA	None	0
143	*Allocasuarina verticillata*	Drooping She-oak	Early-mature	Indigenous (Planted)	16	4 x 4	Fair	Fair	Mod.B	21 to 40		2	1.6	PORT PHILLIP	PP_Undersize	Head St Work zone - 100.01%,New Culvert - 73.93%,Old drain - 26.02%	Within	100.01
144	*Allocasuarina verticillata*	Drooping She-oak	Young	Indigenous (Planted)	3	2 x 1	Fair	Fair	Mod.C	11 to 20		2	1.5	BAYSIDE	BS_Undersize	NA	None	0
145	*Allocasuarina verticillata*	Drooping She-oak	Semi-mature	Indigenous (Planted)	16	5 x 5	Fair	Fair	Mod.C	21 to 40	Young Coast Banksias planted to SW.	2	1.7	PORT PHILLIP	PP_Undersize	Head St Work zone - 100.01%,New Culvert - 4.72%,Old drain - 95.25%	Within	100.01
146	*Allocasuarina verticillata*	Drooping She-oak	Semi-mature	Indigenous (Planted)	12	2 x 2	Fair	Fair to Poor	Mod.C	11 to 20	Trunk leaning, se. Stunted.	2	1.5	PORT PHILLIP	PP_Undersize	Head St Work zone - 96.85%,Old drain - 100.01%	Within	100.01
147	*Platanus Xacerifolia*	London Plane	Young	Exotic deciduous	1	2 x 1	Fair to Poor	Fair	Mod.C	11 to 20		2	1.5	BAYSIDE	BS_Undersize	New Culvert - 100.01%	Within	100.01
148	*Araucaria heterophylla*	Norfolk Island Pine	Early-mature	Australian conifer	31	11 x 7	Good	Fair	Mod.B	21 to 40		3.7	2.2	BAYSIDE	BS_Undersize	Access track - 100.0%,New Culvert - 100.0%	Within	100
149	*Pyrus calleryana*	Callery's Pear	Early-mature	Exotic deciduous	30 (est.)	7 x 10	Fair	Fair	Mod.B	11 to 20	Neighbour's tree. In raised bed.	3.6	2.1	BAYSIDE	BS_Undersize	New Culvert - 45.3%,North Workzone - 62.89%,Road crossing - 62.89%	Within	62.89
150	*Gleditsia triacanthos*	Honey Locust	Early-mature	Exotic deciduous	15	4 x 4	Fair	Fair	Mod.B	21 to 40		2	1.6	BAYSIDE	BS_Undersize	New Culvert - 84.36%,North Workzone - 100.01%,Road crossing - 29.75%	Within	100.01
151	*Gleditsia triacanthos*	Honey Locust	Early-mature	Exotic deciduous	17	5 x 5	Fair	Fair	Mod.B	21 to 40		2	1.6	BAYSIDE	BS_Undersize	New Culvert - 100.01%,North Workzone - 100.01%,Road crossing - 100.01%	Within	100.01
152	*Gleditsia triacanthos*	Honey Locust	Early-mature	Exotic deciduous	17,13	5 x 6	Fair	Fair	Mod.B	21 to 40		2.6	1.6	BAYSIDE	BS_Undersize	New Culvert - 99.99%,North Workzone - 99.99%,Road crossing - 99.99%	Within	99.99
153	*Cupressus sempervirens 'Stricta'*	Pencil Pine	Maturing	Exotic conifer	60 (est.)	16 x 3	Fair	Fair	Mod.B	21 to 40		7.2	2.6	BAYSIDE	BS_LL_permit	New Culvert - 36.11%,North Workzone - 94.13%,Old drain - 57.59%,Road crossing - 96.84%	Within	100
154	*Eucalyptus sideroxylon*	Red Ironbark	Early-mature	Australian native	58	14 x 13	Fair	Fair	Mod.B	21 to 40	Possum grazing, reduced foliage density.	7	2.8	BAYSIDE	BS_LL_permit	New Culvert - 86.62%,North Workzone - 99.99%,Old drain - 5.96% / (Non-Contiguous Areas: New Culvert - 13.38%)	Within	100

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155	*Eucalyptus botryoides*	Southern Mahogany	Maturing	Victorian native	86	24 x 17	Fair	Fair	Mod.B	21 to 40	Habitat hollows, partly suppressed - crown bias, nth. Past clearance prune on Sth side.	10.3	3.2	BAYSIDE	BS_LL_permit	New Culvert - 53.11%,North Workzone - 64.82%,Road crossing - 4.23% / (Non-Contiguous Areas: New Culvert - 46.89%)	Within	100
156	*Acacia implexa*	Lightwood	Early-mature	Indigenous (Planted)	17,16	7 x 7	Fair	Fair to Poor	Mod.C	11 to 20		2.8	2.1	BAYSIDE	BS_Undersize	New Culvert - 100.0%,North Workzone - 100.0%	Within	100
157	*Hoheria populnea*	Lacebark	Early-mature	Exotic evergreen	25 (est.)	6 x 6	Fair	Fair	Mod.C	11 to 20	Neighbour's tree.	3	2	BAYSIDE	BS_Undersize	North Workzone - 1.15%	TPZ	1.15
158	*Grevillea sp.*	Grevillea	Early-mature	Australian native	13 @<=0.5m	2 x 4	Fair	Fair to Poor	Mod.C	11 to 20	Collapsed-still growing. G longistyla cultivar.	2	1.6	BAYSIDE	BS_Undersize	North Workzone - 100.01%	Within	100.01
159	*Eucalyptus ovata*	Swamp Gum	Early-mature	Indigenous (Planted)	33,24	12 x 10	Fair	Fair to Poor	Mod.C	11 to 20	Trunk leaning, nw.	4.9	2.4	BAYSIDE	BS_LL_permit	NA	None	0
160	*Eucalyptus botryoides*	Southern Mahogany	Maturing	Victorian native	88	24 x 20	Fair	Fair	Mod.B	11 to 20	Over-extended limbs developing, nth.	10.6	3.2	BAYSIDE	BS_LL_permit	NA	None	0
161	*Corymbia maculata*	Spotted Gum	Early-mature	Victorian native	35	15 x 12	Fair to Poor	Fair	Mod.B	21 to 40	Suppressed.	4.2	2.4	BAYSIDE	BS_Undersize	NA	None	0
162	*Corymbia maculata*	Spotted Gum	Early-mature	Victorian native	28	13 x 7	Fair	Fair	Mod.B	21 to 40		3.4	2.1	BAYSIDE	BS_Undersize	NA	None	0
163	*Corymbia maculata*	Spotted Gum	Early-mature	Victorian native	38	12 x 14	Fair	Fair	Mod.A	>40		4.6	2.4	BAYSIDE	BS_Undersize	NA	None	0
164	*Acacia implexa*	Lightwood	Semi-mature	Indigenous (Planted)	9	3 x 2	Fair	Fair	Mod.C	11 to 20		2	1.5	BAYSIDE	BS_Undersize	NA	None	0
165	*Corymbia citriodora*	Lemon-scented Gum	Early-mature	Australian native	36	13 x 10	Fair to Poor	Fair	Mod.B	21 to 40		4.3	2.3	BAYSIDE	BS_Undersize	NA	None	0
166	*Eucalyptus camaldulensis*	River Red Gum	Semi-mature	Indigenous (Planted)	15	4 x 4	Fair	Fair	Mod.C	>40		2	1.7	BAYSIDE	BS_Undersize	NA	None	0
167	*Eucalyptus melliodora*	Yellow Box	Early-mature	Indigenous (Planted)	29,19	11 x 8	Fair	Fair to Poor	Mod.C	21 to 40	Included bark forks w compression flaring. Reduce lesser co-dominant stem	4.2	2.2	BAYSIDE	BS_LL_permit	NA	None	0
168	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	31	9 x 9	Fair	Fair	Mod.B	>40		3.7	2.3	BAYSIDE	BS_Undersize	NA	None	0
169	*Eucalyptus melliodora*	Yellow Box	Early-mature	Indigenous (Planted)	52	15 x 12	Fair	Fair to Poor	Mod.B	21 to 40	Co-dominant stems w compression flaring. Reduce lesser co-dominant stem	6.2	2.2	BAYSIDE	BS_LL_permit	NA	None	0
170	*Eucalyptus leucoxylon 'Rosea'*	Pink-flowered Yellow Gum	Semi-mature	Australian native	12	5 x 4	Fair	Fair	Mod.B	>40		2	1.5	BAYSIDE	BS_Undersize	NA	None	0
171	*Eucalyptus ovata*	Swamp Gum	Early-mature	Indigenous (Planted)	36	9 x 9	Fair	Fair	Mod.B	21 to 40	Partly suppressed - crown bias, over-extended limbs developing, nth.	4.3	2.3	BAYSIDE	BS_Undersize	NA	None	0
172	*Allocasuarina verticillata*	Drooping She-oak	Early-mature	Indigenous (Planted)	19	6 x 4	Fair	Fair	Mod.B	21 to 40		2.3	1.8	BAYSIDE	BS_Undersize	North Workzone - 100.01%	Within	100.01
173	*Acacia implexa*	Lightwood	Early-mature	Indigenous (Planted)	23	6 x 5	Fair	Fair	Mod.B	21 to 40		2.8	1.9	BAYSIDE	BS_Undersize	North Workzone - 100.0%	Within	100
174	*Bursaria spinosa*	Sweet Bursaria	Early-mature	Indigenous (Planted)	16,15,10	5 x 6	Fair	Fair to Poor	Mod.C	11 to 20	Vine infested. Remove vines	2.9	1.9	BAYSIDE	BS_Undersize	North Workzone - 100.0%	Within	100
175	*Myoporum insulare*	Boobialla	Semi-mature	Indigenous (Planted)	10,9,8	2 x 5	Fair	Fair to Poor	Mod.C	11 to 20	Sprawling shrub.	2	1.6	BAYSIDE	BS_Undersize	New Culvert - 84.01%,North Workzone - 100.01%	Within	100.01
176	*Acacia melanoxylon*	Blackwood	Semi-mature	Indigenous (Planted)	13	5 x 4	Fair	Fair	Mod.C	21 to 40		2	1.6	BAYSIDE	BS_Undersize	New Culvert - 66.27%,North Workzone - 100.01%	Within	100.01
177	*Bursaria spinosa*	Sweet Bursaria	Early-mature	Indigenous (Planted)	13,11,10	5 x 6	Fair	Fair	Mod.C	21 to 40		2.4	1.8	BAYSIDE	BS_Undersize	North Workzone - 99.99%	Within	99.99
178	*Acacia melanoxylon*	Blackwood	Semi-mature	Indigenous (Planted)	12	4 x 3	Dead	Poor	Very Low	<1		2	1.6	BAYSIDE	BS_Undersize	New Culvert - 64.89%,North Workzone - 100.01%	Within	100.01
179	*Acacia implexa*	Lightwood	Maturing	Indigenous (Planted)	34	10 x 7	Fair	Fair to Poor	Mod.C	11 to 20	Peppercorn tree at Sth base.	4.1	2.3	BAYSIDE	BS_Undersize	New Culvert - 41.32%,North Workzone - 99.99%	Within	99.99
180	*Eucalyptus ovata*	Swamp Gum	Early-mature	Indigenous (Planted)	37	8 x 8	Fair to Poor	Fair to Poor	Mod.C	11 to 20	Minor dieback.	4.4	2.5	BAYSIDE	BS_Undersize	North Workzone - 100.01%,Old drain - 100.01%	Within	100.01
181	*Bursaria spinosa*	Sweet Bursaria	Early-mature	Indigenous (Planted)	16,12,11	5 x 6	Good	Fair	Mod.B	21 to 40	Clipped for path clearance.	2.7	2.1	BAYSIDE	BS_Undersize	North Workzone - 100.01%,Old drain - 93.22%	Within	100.01

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182	*Acacia implexa*	Lightwood	Early-mature	Indigenous (Planted)	20	6 x 5	Fair to Poor	Fair to Poor	Low	6 to 10	Canker/galls. Dieback assoc w fasciation.	2.4	1.9	BAYSIDE	BS_Undersize	North Workzone - 99.99%,Old drain - 99.99%	Within	99.99
183	*Acacia implexa*	Lightwood	Early-mature	Indigenous (Planted)	14,8,7	6 x 4	Fair to Poor	Fair to Poor	Mod.C	11 to 20	Canker/galls, multi-stemmed, trunk leaning, west.	2	1.7	BAYSIDE	BS_Undersize	Crane - 86.28%,North Workzone - 13.73%	Within	100.01
184	*Acacia implexa*	Lightwood	Early-mature	Indigenous (Planted)	24,21	8 x 6	Fair to Poor	Fair to Poor	Low	6 to 10	Canker/galls. Dieback assoc w fasciation.	3.8	2.3	BAYSIDE	BS_Undersize	Crane - 24.92%,North Workzone - 75.09%,Old drain - 50.46%	Within	100.01
185	*Melaleuca styphelioides*	Prickly-leaved Paperbark	Early-mature	Australian native	16,13,10,10	5 x 5	Fair	Fair	Mod.C	21 to 40		3	2.1	BAYSIDE	BS_LL_permit	Crane - 100.01%	Within	100.01
186	*Acacia implexa*	Lightwood	Early-mature	Indigenous (Planted)	16	7 x 4	Fair to Poor	Fair to Poor	Low	6 to 10	Canker/galls. Dieback assoc w fasciation.	2	1.8	BAYSIDE	BS_Undersize	North Workzone - 100.01%,Old drain - 100.01%	Within	100.01
187	*Acacia implexa*	Lightwood	Maturing	Indigenous (Planted)	27	8 x 7	Poor	Fair to Poor	Low	1 to 5	Canker/galls, declining. Dieback assoc w fasciation.	3.2	2.1	BAYSIDE	BS_Undersize	North Workzone - 99.99%,Old drain - 99.99%	Within	99.99
188	*Bursaria spinosa*	Sweet Bursaria	Early-mature	Indigenous (Planted)	13,12,11,9	4 x 5	Fair	Fair	Mod.C	11 to 20		2.5	2	BAYSIDE	BS_Undersize	North Workzone - 99.98%,Old drain - 99.98%	Within	99.98
189	*Eucalyptus ovata*	Swamp Gum	Semi-mature	Indigenous (Planted)	16	6 x 5	Poor	Poor	Low	6 to 10	Main leader dead.	2	1.7	BAYSIDE	BS_Undersize	Crane - 84.59%,North Workzone - 15.42%	Within	100.01
190	*Acacia implexa*	Lightwood	Early-mature	Indigenous (Planted)	18	6 x 4	Fair to Poor	Fair to Poor	Mod.C	11 to 20	Canker/galls.	2.2	1.8	BAYSIDE	BS_Undersize	Crane - 99.99%	Within	99.99
191	*Bursaria spinosa*	Sweet Bursaria	Early-mature	Indigenous (Planted)	9,8,8	3 x 3	Fair	Fair	Mod.C	11 to 20		2	1.6	BAYSIDE	BS_Undersize	Crane - 100.01%	Within	100.01
192	*Bursaria spinosa*	Sweet Bursaria	Early-mature	Indigenous (Planted)	8,7	4 x 4	Fair	Fair	Mod.C	11 to 20		2	1.7	BAYSIDE	BS_Undersize	Crane - 0.94%,North Workzone - 99.07%	Within	100.01
193	*Acacia melanoxylon*	Blackwood	Early-mature	Indigenous (Planted)	10,8,7	4 x 4	Fair	Fair to Poor	Mod.C	11 to 20	Multi-stemmed.	2	1.8	BAYSIDE	BS_Undersize	Crane - 100.01%	Within	100.01
194	*Eucalyptus melliodora*	Yellow Box	Semi-mature	Indigenous (Planted)	16	7 x 5	Good	Fair	Mod.B	>40		2	1.6	BAYSIDE	BS_Undersize	Crane - 81.65%,North Workzone - 18.35%	Within	100.01
195	*Bursaria spinosa*	Sweet Bursaria	Early-mature	Indigenous (Planted)	10,9,8	4 x 3	Fair	Fair	Mod.C	11 to 20		2	1.6	BAYSIDE	BS_Undersize	Crane - 100.01%	Within	100.01
196	*Allocasuarina littoralis*	Black She-oak	Early-mature	Indigenous (Planted)	17	5 x 4	Fair	Fair	Mod.B	21 to 40		2	1.8	BAYSIDE	BS_Undersize	Crane - 100.01%	Within	100.01
197	*Acacia implexa*	Lightwood	Early-mature	Indigenous (Planted)	20	9 x 4	Poor	Fair to Poor	Low	6 to 10	Canker/galls, included bark forksw compression flaring. Dieback assoc w fasciation.	2.4	1.9	BAYSIDE	BS_Undersize	Crane - 99.99%	Within	99.99
198	*Acacia melanoxylon*	Blackwood	Semi-mature	Indigenous (Planted)	15	6 x 5	Fair	Fair to Poor	Mod.C	11 to 20	Partly suppressed - crown bias, se. Rubbing Swamp Gum to Nth.	2	1.7	BAYSIDE	BS_Undersize	Crane - 86.85%,North Workzone - 13.16%	Within	100.01
199	*Eucalyptus ovata*	Swamp Gum	Early-mature	Indigenous (Planted)	20,16,15	9 x 8	Poor	Poor	Low	1 to 5	Declining, main leader dead, multi-stemmed.	3.6	2.5	BAYSIDE	BS_LL_permit	Crane - 57.1%,North Workzone - 42.9%,Old drain - 5.97%	Within	99.99
200	*Bursaria spinosa*	Sweet Bursaria	Early-mature	Indigenous (Planted)	10,10,8	4 x 4	Fair	Fair	Mod.C	11 to 20		2	1.7	BAYSIDE	BS_Undersize	Crane - 20.97%,North Workzone - 79.03%,Old drain - 3.53%	Within	100.01
201	*Acacia melanoxylon*	Blackwood	Semi-mature	Indigenous (Planted)	11,10,9,9	4 x 4	Fair	Fair to Poor	Mod.C	11 to 20	Multi-stemmed.	2	1.8	BAYSIDE	BS_Undersize	Crane - 3.1%,North Workzone - 96.91%,Old drain - 54.3%	Within	100.01
202	*Eucalyptus ovata*	Swamp Gum	Semi-mature	Indigenous (Planted)	40	9 x 8	Fair	Fair to Poor	Mod.C	11 to 20	Incipient decay, limb wounds, past stem failure.	4.8	2.5	BAYSIDE	BS_Undersize	Crane - 3.18%,North Workzone - 96.82%,Old drain - 66.3%	Within	100
203	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	37	9 x 9	Fair	Fair	Mod.B	>40	Partly suppressed - crown bias, nw.	4.4	2.3	BAYSIDE	BS_Undersize	North Workzone - 100.01%,Old drain - 37.62%	Within	100.01
204	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	37	11 x 9	Fair	Fair	Mod.B	>40		4.4	2.3	BAYSIDE	BS_Undersize	North Workzone - 100.01%	Within	100.01
205	*Eucalyptus melliodora*	Yellow Box	Early-mature	Indigenous (Planted)	23,16	7 x 6	Fair	Fair	Mod.B	>40	Partly suppressed - crown bias, nth.	3.4	2.1	BAYSIDE	BS_Undersize	North Workzone - 100.0%,Old drain - 74.09%	Within	100
206	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	28	9 x 5	Fair	Fair	Mod.B	>40		3.4	2	BAYSIDE	BS_Undersize	North Workzone - 98.04%,Old drain - 4.23%	Within	98.04
207	*Acacia mearnsii*	Late Black Wattle	Over-mature	Indigenous (Planted)	28,13	10 x 6	Poor	Poor	Low	1 to 5	Borers, in irreversible decline, partly suppressed - crown bias, nw.	3.7	2.4	BAYSIDE	BS_Undersize	North Workzone - 75.99%,Old drain - 35.38%	Within	76.07
208	*Eucalyptus cornuta*	Yate	Early-mature	Australian native	28	13 x 10	Fair	Fair	Mod.B	21 to 40		3.4	2.3	BAYSIDE	BS_Undersize	North Workzone - 55.76%,Old drain - 15.03%	Within	55.84

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treeid	species	comm_name	age_class	origin_typ	dbh_cm	height x width (m)	health	structure	arb_rating	ule_yrs	comments	tpz_rad_m	srz_rad_m	LGA	LL_Permit	Impact_name	Impact	%TPZ_enc
209	*Eucalyptus melliodora*	Yellow Box	Early-mature	Indigenous (Planted)	47	14 x 9	Fair	Fair to Poor	Mod.B	21 to 40	Co-dominant stems w compression flaring, partly suppressed - crown bias-NE. Reduce lesser co-dominant stem	5.6	2.4	BAYSIDE	BS_Undersize	North Workzone - 61.45%,Old drain - 47.96%	SRZ	61.59
210	*Acacia melanoxylon*	Blackwood	Semi-mature	Indigenous (Planted)	12	3 x 2	Fair	Fair	Mod.C	11 to 20		2	1.5	BAYSIDE	BS_Undersize	NA	None	0
211	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	47	11 x 9	Fair	Fair	Mod.B	>40		5.6	2.6	BAYSIDE	BS_Undersize	NA	None	0
212	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	50	11 x 10	Good	Fair	Mod.A	>40		6	2.7	BAYSIDE	BS_LL_permit	NA	None	0
213	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	55	13 x 12	Fair	Fair	Mod.A	>40	Over-extended limbs developing.	6.6	2.8	BAYSIDE	BS_LL_permit	NA	None	0
214	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	68 @1.0m	15 x 12	Good	Fair	Mod.A	>40		8.2	3	BAYSIDE	BS_LL_permit	North Workzone - 0.68%,Old drain - 0.7%	TPZ	0.7
215	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	59,25,16	14 x 10	Good	Fair	Mod.A	>40	Deadwood.	7.9	3	BAYSIDE	BS_LL_permit	Crane - 7.27%,North Workzone - 38.55% / (Non-Contiguous Areas: North Workzone - 7.27%)	SRZ	45.83
216	*Eucalyptus camaldulensis*	River Red Gum	Semi-mature	Indigenous (Planted)	11 (est.)	6 x 3	Fair	Fair	Mod.C	>40	Natural recruitment.	2	1.5	BAYSIDE	BS_Undersize	NA	None	0
217	*Acacia melanoxylon*	Blackwood	Early-mature	Indigenous (Planted)	12,12,11,10	5 x 4	Fair	Fair	Mod.C	11 to 20	Leaning trunk. Cluster of 4 trees.	2.7	1.6	BAYSIDE	BS_Undersize	North Workzone - 6.13%	TPZ	6.13
218	*Eucalyptus melliodora*	Yellow Box	Early-mature	Indigenous (Planted)	27	7 x 4	Poor	Poor	Low	1 to 5	Declining, main leader dead.	3.2	2.1	BAYSIDE	BS_Undersize	North Workzone - 92.27%	Within	92.27
219	*Eucalyptus melliodora*	Yellow Box	Early-mature	Indigenous (Planted)	30 (est.)	10 x 6	Dead	Very Poor	Very Low	<1		3.6	2.1	BAYSIDE	BS_Undersize	North Workzone - 34.44%	SRZ	34.44
220	*Eucalyptus melliodora*	Yellow Box	Early-mature	Indigenous (Planted)	30	11 x 8	Fair	Fair	Mod.B	21 to 40	Girdling root.	3.6	2.3	BAYSIDE	BS_Undersize	North Workzone - 75.17%,Old drain - 8.29%	Within	75.17
221	*Eucalyptus melliodora*	Yellow Box	Early-mature	Indigenous (Planted)	30	15 x 8	Fair	Fair	Mod.B	21 to 40		3.6	2.1	BAYSIDE	BS_Undersize	North Workzone - 81.8%,Old drain - 24.41%	Within	81.8
222	*Eucalyptus melliodora*	Yellow Box	Early-mature	Indigenous (Planted)	40	15 x 8	Fair	Fair to Poor	Mod.C	21 to 40	Congested primary union. At 7m.	4.8	2.4	BAYSIDE	BS_Undersize	North Workzone - 54.42%,Old drain - 20.31%	Within	54.42
223	*Eucalyptus ovata*	Swamp Gum	Early-mature	Indigenous (Planted)	35 (est.)	10 x 8	Poor	Poor	Low	6 to 10	Epicormic shoots, past branch failure, reduced foliage density, trunk wounds.	4.2	2.4	BAYSIDE	BS_Undersize	North Workzone - 4.15%	TPZ	4.15
224	*Eucalyptus ovata*	Swamp Gum	Early-mature	Indigenous (Planted)	30	8 x 8	Fair to Poor	Fair to Poor	Mod.C	11 to 20	Leaning trunk, reduced foliage density.	3.6	2.1	BAYSIDE	BS_Undersize	NA	None	0
225	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	65	14 x 14	Fair	Fair	Mod.A	>40		7.8	3	BAYSIDE	BS_LL_permit	North Workzone - 2.78%,Old drain - 1.96%	TPZ	2.78
226	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	38	11 x 7	Fair	Fair to Poor	Mod.B	21 to 40	Past limb failure, trunk wounds.	4.6	2.5	BAYSIDE	BS_Undersize	NA	None	0
227	*Eucalyptus camaldulensis*	River Red Gum	Young	Indigenous (Planted)	8	4 x 2	Fair	Fair	Mod.C	>40		2	1.5	BAYSIDE	BS_Undersize	NA	None	0
228	*Eucalyptus camaldulensis*	River Red Gum	Semi-mature	Indigenous (Planted)	32	10 x 6	Fair	Fair	Mod.B	>40		3.8	2.2	BAYSIDE	BS_Undersize	NA	None	0
229	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	45 (est.)	15 x 8	Fair	Fair	Mod.B	>40		5.4	2.5	BAYSIDE	BS_Undersize	NA	None	0
230	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	40	14 x 8	Fair	Fair to Poor	Mod.C	21 to 40	Past branch failure.	4.8	2.4	BAYSIDE	BS_Undersize	NA	None	0
231	*Eucalyptus camaldulensis*	River Red Gum	Maturing	Indigenous (Planted)	64	18 x 12	Fair	Fair	Mod.A	>40	Exposed roots.	7.7	2.9	BAYSIDE	BS_LL_permit	NA	None	0
232	*Eucalyptus camaldulensis*	River Red Gum	Young	Indigenous (Planted)	8	6 x 2	Fair	Fair	Mod.C	>40		2	3.3	BAYSIDE	BS_Undersize	NA	None	0
233	*Eucalyptus camaldulensis*	River Red Gum	Young	Indigenous (Planted)	7	4 x 2	Fair	Fair	Mod.C	>40		2	1.5	BAYSIDE	BS_Undersize	NA	None	0
234	*Eucalyptus camaldulensis*	River Red Gum	Maturing	Indigenous (Planted)	40,35 (est.)	9 x 15	Fair	Fair to Poor	Mod.B	>40	Past branch failure, past limb failure. Low canopy.	6.4	2.6	BAYSIDE	BS_LL_permit	NA	None	0
235	*Eucalyptus camaldulensis*	River Red Gum	Semi-mature	Indigenous (Planted)	20	12 x 5	Fair	Fair	Mod.C	>40		2.4	1.8	BAYSIDE	BS_Undersize	NA	None	0
236	*Eucalyptus camaldulensis*	River Red Gum	Semi-mature	Indigenous (Planted)	30	13 x 8	Fair	Fair	Mod.B	>40		3.6	2.3	BAYSIDE	BS_Undersize	NA	None	0
237	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	40 (est.)	16 x 8	Fair	Fair	Mod.B	>40		4.8	2.5	BAYSIDE	BS_Undersize	NA	None	0

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238	*Eucalyptus camaldulensis*	River Red Gum	Maturing	Indigenous (Planted)	51	13 x 13	Fair	Fair	Mod.B	21 to 40		6.1	2.7	BAYSIDE	BS_LL_permit	NA	None	0
239	*Eucalyptus camaldulensis*	River Red Gum	Maturing	Indigenous (Planted)	52	16 x 10	Fair	Fair	Mod.A	>40		6.2	2.7	BAYSIDE	BS_LL_permit	NA	None	0
240	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	32	12 x 8	Fair	Fair	Mod.C	21 to 40		3.8	2.3	BAYSIDE	BS_Undersize	NA	None	0
241	*Eucalyptus camaldulensis*	River Red Gum	Young	Indigenous (Planted)	5	3 x 2	Fair	Fair	Mod.C	>40		2	1.5	BAYSIDE	BS_Undersize	NA	None	0
242	*Eucalyptus camaldulensis*	River Red Gum	Maturing	Indigenous (Planted)	59	16 x 10	Fair	Fair	Mod.A	>40		7.1	2.8	BAYSIDE	BS_LL_permit	NA	None	0
243	*Eucalyptus camaldulensis*	River Red Gum	Young	Indigenous (Planted)	5	3 x 2	Fair	Fair	Mod.C	>40		2	1.5	BAYSIDE	BS_Undersize	NA	None	0
244	*Eucalyptus melliodora*	Yellow Box	Early-mature	Indigenous (Planted)	37	14 x 8	Fair	Fair	Mod.B	21 to 40		4.4	2.4	BAYSIDE	BS_Undersize	NA	None	0
245	*Eucalyptus melliodora*	Yellow Box	Semi-mature	Indigenous (Planted)	27	14 x 8	Fair	Fair	Mod.B	21 to 40		3.2	2.1	BAYSIDE	BS_Undersize	NA	None	0
246	*Eucalyptus melliodora*	Yellow Box	Semi-mature	Indigenous (Planted)	27	14 x 8	Fair	Fair	Mod.B	21 to 40		3.2	2.1	BAYSIDE	BS_Undersize	NA	None	0
247	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	39	15 x 10	Fair to Poor	Fair to Poor	Mod.C	21 to 40	Chlorotic foliage.	4.7	2.4	BAYSIDE	BS_Undersize	NA	None	0
248	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	42	15 x 10	Fair	Fair	Mod.B	21 to 40		5	2.5	BAYSIDE	BS_Undersize	NA	None	0
249	*Eucalyptus camaldulensis*	River Red Gum	Maturing	Indigenous (Planted)	60	17 x 12	Fair	Fair	Mod.A	>40		7.2	3.1	BAYSIDE	BS_LL_permit	NA	None	0
250	*Eucalyptus camaldulensis*	River Red Gum	Semi-mature	Indigenous (Planted)	15	6 x 10	Fair	Fair to Poor	Mod.C	21 to 40	Suppressed.	2	1.7	BAYSIDE	BS_Undersize	NA	None	0
251	*Eucalyptus camaldulensis*	River Red Gum	Maturing	Indigenous (Planted)	45	13 x 10	Fair	Fair	Mod.B	21 to 40		5.4	2.7	BAYSIDE	BS_Undersize	NA	None	0
252	*Eucalyptus camaldulensis*	River Red Gum	Young	Indigenous (Planted)	5	4 x 2	Fair	Fair	Mod.C	>40		2	1.5	BAYSIDE	BS_Undersize	NA	None	0
253	*Eucalyptus ovata*	Swamp Gum	Early-mature	Indigenous (Planted)	37	10 x 8	Fair	Fair to Poor	Mod.C	11 to 20	Exposed roots, trunk wounds.	4.4	2.5	BAYSIDE	BS_Undersize	NA	None	0
254	*Eucalyptus camaldulensis*	River Red Gum	Maturing	Indigenous (Planted)	55	10 x 10	Fair	Fair to Poor	Mod.B	21 to 40	Low canopy. Clearance pruning - pedestrian	6.6	2.7	BAYSIDE	BS_LL_permit	NA	None	0
255	*Eucalyptus melliodora*	Yellow Box	Maturing	Indigenous (Planted)	46	15 x 12	Fair	Fair to Poor	Mod.C	21 to 40	Past limb failure.	5.5	2.6	BAYSIDE	BS_Undersize	NA	None	0
256	*Eucalyptus melliodora*	Yellow Box	Early-mature	Indigenous (Planted)	34 @0.8m	9 x 10	Fair	Fair	Mod.C	21 to 40		4.1	2.3	BAYSIDE	BS_Undersize	NA	None	0
257	*Eucalyptus melliodora*	Yellow Box	Maturing	Indigenous (Planted)	51	14 x 10	Fair	Fair	Mod.B	21 to 40		6.1	2.6	BAYSIDE	BS_LL_permit	NA	None	0
258	*Eucalyptus camaldulensis*	River Red Gum	Semi-mature	Indigenous (Planted)	12	5 x 3	Fair	Fair	Mod.C	>40	Natural recruitment plus 2 mor saplings within 1m.	2	1.5	BAYSIDE	BS_Undersize	NA	None	0
259	*Eucalyptus camaldulensis*	River Red Gum	Semi-mature	Indigenous (Planted)	11	5 x 3	Fair	Fair	Mod.C	>40		2	1.5	BAYSIDE	BS_Undersize	NA	None	0
260	*Eucalyptus ovata*	Swamp Gum	Early-mature	Indigenous (Planted)	33,32 (est.)	6 x 9	Fair	Fair to Poor	Mod.B	11 to 20		5.5	2.4	BAYSIDE	BS_LL_permit	NA	None	0
261	*Eucalyptus camaldulensis*	River Red Gum	Young	Indigenous (Planted)	8	5 x 2	Fair	Fair	Mod.C	>40		2	1.5	BAYSIDE	BS_Undersize	NA	None	0
262	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	45	14 x 14	Good	Fair	Mod.A	>40		5.4	2.6	BAYSIDE	BS_Undersize	NA	None	0
263	*Eucalyptus camaldulensis*	River Red Gum	Young	Indigenous (Planted)	8	5 x 2	Fair	Fair	Mod.C	>40		2	3.3	BAYSIDE	BS_Undersize	NA	None	0
264	*Eucalyptus camaldulensis*	River Red Gum	Young	Indigenous (Planted)	10	5 x 3	Fair	Fair	Mod.C	>40		2	1.5	BAYSIDE	BS_Undersize	NA	None	0
265	*Eucalyptus camaldulensis*	River Red Gum	Young	Indigenous (Planted)	10	6 x 3	Fair	Fair	Mod.C	>40		2	1.5	BAYSIDE	BS_Undersize	NA	None	0
266	*Eucalyptus camaldulensis*	River Red Gum	Young	Indigenous (Planted)	12	6 x 5	Fair	Fair	Mod.C	>40		2	1.5	BAYSIDE	BS_Undersize	NA	None	0
267	*Eucalyptus camaldulensis*	River Red Gum	Young	Indigenous (Planted)	12,6	5 x 4	Fair	Fair	Mod.C	>40		2	1.5	BAYSIDE	BS_Undersize	NA	None	0
268	*Eucalyptus camaldulensis*	River Red Gum	Young	Indigenous (Planted)	15 (est.)	5 x 4	Fair	Fair	Mod.C	>40		2	1.6	BAYSIDE	BS_Undersize	NA	None	0
269	*Casuarina cunninghamiana*	River She-oak	Young	Australian native	8	5 x 3	Fair	Fair	Low	11 to 20		2	1.5	BAYSIDE	BS_Undersize	NA	None	0

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270	*Eucalyptus ovata*	Swamp Gum	Maturing	Indigenous (Planted)	63 (est.)	10 x 17	Good	Fair	Mod.A	21 to 40		7.6	2.8	BAYSIDE	BS_LL_permit	NA	None	0
271	*Eucalyptus ovata*	Swamp Gum	Maturing	Indigenous (Planted)	57	12 x 15	Fair	Fair to Poor	Mod.B	21 to 40	Past limb failure, trunk wounds, over-extended limbs developing-SE & NW. Reduce over-extended branch	6.8	2.8	BAYSIDE	BS_LL_permit	NA	None	0
272	*Eucalyptus melliodora*	Yellow Box	Maturing	Indigenous (Planted)	41	20 x 10	Fair	Fair	Mod.B	21 to 40	Co-dominant stems.	4.9	2.5	BAYSIDE	BS_Undersize	NA	None	0
273	*Corymbia maculata*	Spotted Gum	Semi-mature	Victorian native	33	15 x 10	Fair	Fair	Mod.B	21 to 40	Exposed roots.	4	2.4	BAYSIDE	BS_Undersize	NA	None	0
274	*Eucalyptus camaldulensis*	River Red Gum	Maturing	Indigenous (Planted)	83	18 x 15	Fair to Poor	Fair	Mod.B	11 to 20	Bracket fungi, exposed roots.	10	3.3	BAYSIDE	BS_LL_permit	NA	None	0
275	*Corymbia maculata*	Spotted Gum	Maturing	Victorian native	45	15 x 12	Fair	Fair	Mod.B	21 to 40	Exposed roots.	5.4	2.5	BAYSIDE	BS_Undersize	NA	None	0
276	*Eucalyptus melliodora*	Yellow Box	Early-mature	Indigenous (Planted)	44	12 x 8	Fair	Fair	Mod.B	>40	Acute forks.	5.3	2.5	BAYSIDE	BS_Undersize	NA	None	0
277	*Eucalyptus melliodora*	Yellow Box	Early-mature	Indigenous (Planted)	41	11 x 9	Fair	Fair	Mod.B	21 to 40	Co-dominant stems.	4.9	2.4	BAYSIDE	BS_Undersize	NA	None	0
278	*Eucalyptus melliodora*	Yellow Box	Early-mature	Indigenous (Planted)	43	15 x 5	Fair	Fair	Mod.B	21 to 40	Co-dominant stems, included bark.	5.2	2.5	BAYSIDE	BS_Undersize	NA	None	0
279	*Eucalyptus melliodora*	Yellow Box	Early-mature	Indigenous (Planted)	30	12 x 6	Fair	Fair	Mod.B	21 to 40		3.6	2.2	BAYSIDE	BS_Undersize	NA	None	0
280	*Eucalyptus melliodora*	Yellow Box	Early-mature	Indigenous (Planted)	46	12 x 7	Fair	Fair	Mod.B	21 to 40		5.5	2.5	BAYSIDE	BS_Undersize	NA	None	0
281	*Eucalyptus melliodora*	Yellow Box	Early-mature	Indigenous (Planted)	62	12 x 9	Fair	Fair	Mod.B	21 to 40	Co-dominant forks.	7.4	2.6	BAYSIDE	BS_LL_permit	NA	None	0
282	*Eucalyptus melliodora*	Yellow Box	Early-mature	Indigenous (Planted)	35	9 x 5	Fair	Fair	Mod.B	21 to 40		4.2	2.3	BAYSIDE	BS_Undersize	NA	None	0
283	*Eucalyptus melliodora*	Yellow Box	Early-mature	Indigenous (Planted)	34	11 x 6	Fair	Fair	Mod.B	21 to 40		4.1	2.3	BAYSIDE	BS_Undersize	NA	None	0
284	*Eucalyptus ovata*	Swamp Gum	Early-mature	Indigenous (Planted)	44	10 x 10	Fair to Poor	Fair	Mod.C	21 to 40	Reduced foliage density.	5.3	2.5	BAYSIDE	BS_Undersize	NA	None	0
285	*Eucalyptus ovata*	Swamp Gum	Early-mature	Indigenous (Planted)	40	9 x 9	Fair	Fair	Mod.B	21 to 40		4.8	2.4	BAYSIDE	BS_Undersize	NA	None	0
286	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	84	16 x 12	Fair	Fair	Mod.A	>40	Crossing branches.	10.1	3.2	BAYSIDE	BS_LL_permit	NA	None	0
287	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	40	11 x 9	Fair	Fair	Mod.B	21 to 40		4.8	2.4	BAYSIDE	BS_Undersize	NA	None	0
288	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	87	15 x 16	Fair	Fair	Mod.A	>40		10.4	3.2	BAYSIDE	BS_LL_permit	NA	None	0
289	*Lophostemon confertus*	Brush Box	Early-mature	Australian native	25,20,15,10	6 x 6	Fair	Fair	Mod.B	11 to 20		4.4	2.2	BAYSIDE	BS_LL_permit	NA	None	0
290	*Eucalyptus camaldulensis*	River Red Gum	Maturing	Indigenous (Planted)	100	16 x 21	Good	Fair	Mod.A	>40		12	3.6	BAYSIDE	BS_LL_permit	NA	None	0
291	*Eucalyptus sideroxylon*	Red Ironbark	Early-mature	Australian native	67	13 x 12	Fair	Fair	Mod.B	21 to 40	Co-dominant stems w compression flaring.	8	2.8	BAYSIDE	BS_LL_permit	NA	None	0
292	*Corymbia maculata*	Spotted Gum	Early-mature	Victorian native	32	12 x 9	Fair	Fair	Mod.B	21 to 40		3.8	2.4	BAYSIDE	BS_Undersize	NA	None	0
293	*Corymbia maculata*	Spotted Gum	Early-mature	Victorian native	28	12 x 7	Fair	Fair	Mod.B	21 to 40		3.4	2	BAYSIDE	BS_Undersize	NA	None	0
294	*Corymbia maculata*	Spotted Gum	Early-mature	Victorian native	32	12 x 11	Fair	Fair	Mod.B	21 to 40		3.8	2.4	BAYSIDE	BS_Undersize	NA	None	0
295	*Grevillea robusta*	Silky Oak	Semi-mature	Australian native	26	10 x 5	Fair	Fair	Mod.C	21 to 40		3.1	2	BAYSIDE	BS_Undersize	NA	None	0
296	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	80	15 x 11	Fair	Fair	Mod.B	>40	Incipient decay, past branch failure, trunk wounds.	9.6	3.2	BAYSIDE	BS_LL_permit	NA	None	0
297	*Callistemon salignus*	Willow Bottlebrush	Semi-mature	Australian native	16	4 x 4	Fair	Fair	Mod.C	21 to 40	Acute forks.	2	1.8	BAYSIDE	BS_Undersize	NA	None	0
298	*Corymbia maculata*	Spotted Gum	Early-mature	Victorian native	32	10 x 6	Fair	Fair	Mod.B	21 to 40		3.8	2.2	BAYSIDE	BS_Undersize	NA	None	0
299	*Corymbia maculata*	Spotted Gum	Early-mature	Victorian native	26	10 x 7	Fair	Fair	Mod.B	21 to 40		3.1	2	BAYSIDE	BS_Undersize	NA	None	0
300	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	57,55,40	16 x 13	Good	Fair	Mod.A	>40		10.6	3.4	BAYSIDE	BS_LL_permit	NA	None	0

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treeid	species	comm_name	age_class	origin_typ	dbh_cm	height x width (m)	health	structure	arb_rating	ule_yrs	comments	trz_rad_m	srz_rad_m	LGA	LL_Permit	Impact_name	Impact	%TPZ_enc
301	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	42	14 x 8	Fair	Fair	Mod.B	21 to 40	Co-dominant forks.	5	2.5	BAYSIDE	BS_Undersize	NA	None	0
302	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	62	15 x 8	Fair	Fair	Mod.B	21 to 40	Mower damage to surface roots.	7.4	2.9	BAYSIDE	BS_LL_permit	NA	None	0
303	*Eucalyptus camaldulensis*	River Red Gum	Semi-mature	Indigenous (Planted)	11	5 x 2	Fair	Fair	Mod.C	>40		2	1.5	BAYSIDE	BS_Undersize	NA	None	0
304	*Eucalyptus camaldulensis*	River Red Gum	Semi-mature	Indigenous (Planted)	46	14 x 8	Fair	Fair	Mod.B	>40		5.5	2.6	BAYSIDE	BS_Undersize	NA	None	0
305	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	45	11 x 8	Fair	Fair	Mod.B	>40	Co-dominant stems, past branch failure.	5.4	2.5	BAYSIDE	BS_Undersize	NA	None	0
306	*Eucalyptus camaldulensis*	River Red Gum	Semi-mature	Indigenous (Planted)	12	5 x 2	Fair	Fair	Mod.C	>40		2	1.5	BAYSIDE	BS_Undersize	NA	None	0
307	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	57	17 x 9	Fair	Fair	Mod.B	>40	Co-dominant stems.	6.8	2.8	BAYSIDE	BS_LL_permit	NA	None	0
308	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	49	11 x 10	Good	Fair	Mod.A	>40		5.9	2.6	BAYSIDE	BS_LL_permit	NA	None	0
309	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	66	14 x 13	Good	Fair	Mod.A	>40	1 Girdling root.	7.9	3	BAYSIDE	BS_LL_permit	NA	None	0
310	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	47	11 x 10	Fair	Fair	Mod.A	>40	Deadwood.	5.6	2.7	BAYSIDE	BS_Undersize	North Workzone - 64.34%	Within	64.34
311	*Syzygium australe*	Scrub Cherry	Young	Australian native	8 @<=0.5m	2 x 1	Fair	Fair	Mod.C	21 to 40	Street tree.	2	1.5	BAYSIDE	BS_Undersize	North Workzone - 65.52%,Road crossing - 44.28%	Within	89.84
312	*Prunus cerasifera 'Nigra'*	Purple Leaf Cherry Plum	Maturing	Exotic deciduous	32 @0.8m	4 x 6	Fair	Fair to Poor	Mod.C	11 to 20	Street tree, suckers.	3.8	2.1	BAYSIDE	BS_Undersize	North Workzone - 63.65%	Within	63.65
313	*Corymbia ficifolia*	Red-flowering Gum	Early-mature	Australian native	19,14,13	3 x 5	Fair to Poor	Fair to Poor	Mod.C	11 to 20	Crossing branches, reduced foliage density.	3.2	1.8	BAYSIDE	BS_Undersize	North Workzone - 99.99%	Within	99.99
314	*Prunus cerasifera 'Nigra'*	Purple Leaf Cherry Plum	Maturing	Exotic deciduous	27 @<=0.5m	5 x 4	Fair	Poor	Mod.C	6 to 10	Basal wounds, incipient decay, street tree.	3.2	2.1	BAYSIDE	BS_Undersize	North Workzone - 42.74%	SRZ	42.74
315	*Lophostemon confertus*	Brush Box	Early-mature	Australian native	40	7 x 7	Good	Fair	Mod.B	>40		4.8	2.4	BAYSIDE	BS_Undersize	North Workzone - 15.12%	TPZ_Major	15.12
316	*Prunus cerasifera 'Nigra'*	Purple Leaf Cherry Plum	Maturing	Exotic deciduous	24 @0.8m	4 x 6	Fair	Fair to Poor	Mod.C	11 to 20	Basal wounds, street tree.	2.9	2.1	BAYSIDE	BS_Undersize	NA	None	0
317	*Lophostemon confertus*	Brush Box	Early-mature	Australian native	25	5 x 6	Fair	Fair	Mod.B	21 to 40	Partly suppressed - crown bias, nth.	3	2.1	BAYSIDE	BS_Undersize	NA	None	0
318	*Lophostemon confertus*	Brush Box	Early-mature	Australian native	33	7 x 7	Good	Fair	Mod.B	>40		4	2.3	BAYSIDE	BS_Undersize	NA	None	0
319	*Prunus cerasifera 'Nigra'*	Purple Leaf Cherry Plum	Maturing	Exotic deciduous	25 @0.8m	4 x 5	Fair to Poor	Fair to Poor	Mod.C	11 to 20	Basal wounds, incipient decay, street tree.	3	2.1	BAYSIDE	BS_Undersize	NA	None	0
320	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	45	11 x 9	Fair	Fair	Mod.B	>40	Co-dominant stems.	5.4	2.5	BAYSIDE	BS_Undersize	NA	None	0
321	*Lophostemon confertus*	Brush Box	Early-mature	Australian native	28	7 x 5	Fair	Fair	Mod.B	21 to 40	Partly suppressed - crown bias.	3.4	2.1	BAYSIDE	BS_Undersize	NA	None	0
322	*Melaleuca armillaris*	Bracelet Honey-myrtle	Early-mature	Victorian native	29,27	5 x 7	Fair to Poor	Fair to Poor	Low	6 to 10	Basal decay, basal wounds, cavity, deadwood.	4.8	2.3	BAYSIDE	BS_LL_permit	NA	None	0
323	*Lophostemon confertus*	Brush Box	Semi-mature	Australian native	21	6 x 5	Fair	Fair	Mod.C	21 to 40	Suppressed.	2.5	1.8	BAYSIDE	BS_Undersize	NA	None	0
324	*Melaleuca armillaris*	Bracelet Honey-myrtle	Early-mature	Victorian native	52	7 x 8	Fair	Fair to Poor	Mod.C	11 to 20	Deadwood.	6.2	2.7	BAYSIDE	BS_LL_permit	NA	None	0
325	*Cupressus sempervirens*	Italian Cypress	Early-mature	Exotic conifer	21,19,15,10,5	8 x 4	Fair	Fair to Poor	Mod.C	11 to 20	Congested primary union.	4	2.1	BAYSIDE	BS_LL_permit	NA	None	0
326	*Melaleuca armillaris*	Bracelet Honey-myrtle	Early-mature	Victorian native	28,28,25,25	5 x 7	Fair to Poor	Fair	Mod.C	11 to 20	Congested primary union, crossing branches.	6.4	3.4	BAYSIDE	BS_LL_permit	NA	None	0
327	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	38	12 x 10	Fair	Fair	Mod.B	21 to 40		4.6	2.5	BAYSIDE	BS_Undersize	NA	None	0
328	*Eucalyptus camaldulensis*	River Red Gum	Semi-mature	Indigenous (Planted)	20	12 x 5	Fair	Fair	Mod.C	>40		2.4	1.8	BAYSIDE	BS_Undersize	NA	None	0
329	*Eucalyptus camaldulensis*	River Red Gum	Semi-mature	Indigenous (Planted)	28	13 x 6	Fair	Fair	Mod.B	>40		3.4	2.2	BAYSIDE	BS_Undersize	NA	None	0

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330	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	27,20,20	14 x 8	Fair	Fair	Mod.B	21 to 40		4.7	2.8	BAYSIDE	BS_LL_permit	NA	None	0
331	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	42	15 x 10	Fair	Fair	Mod.B	21 to 40		5	2.5	BAYSIDE	BS_Undersize	NA	None	0
332	*Eucalyptus camaldulensis*	River Red Gum	Maturing	Indigenous (Planted)	60	16 x 10	Fair	Fair	Mod.A	>40	Surface roots.	7.2	3	BAYSIDE	BS_LL_permit	NA	None	0
333	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	35,31	10 x 8	Good	Fair	Mod.A	>40	Acute forks, co-dominant stems. Reduce lesser co-dominant stem	5.6	2.7	BAYSIDE	BS_LL_permit	NA	None	0
334	*Eucalyptus camaldulensis*	River Red Gum	Young	Indigenous (Planted)	4	3 x 1	Fair	Fair	Mod.C	>40		2	1.5	BAYSIDE	BS_Undersize	NA	None	0
335	*Eucalyptus camaldulensis*	River Red Gum	Young	Indigenous (Planted)	2	2 x 1	Fair to Poor	Fair	Mod.C	>40	Minor dieback.	2	1.5	BAYSIDE	BS_Undersize	NA	None	0
336	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	35	14 x 8	Fair	Fair	Mod.B	21 to 40		4.2	2.3	BAYSIDE	BS_Undersize	NA	None	0
337	*Eucalyptus camaldulensis*	River Red Gum	Semi-mature	Indigenous (Planted)	25	10 x 6	Fair	Fair to Poor	Mod.C	21 to 40	Girdling root.	3	2.1	BAYSIDE	BS_Undersize	NA	None	0
338	*Eucalyptus camaldulensis*	River Red Gum	Semi-mature	Indigenous (Planted)	20	8 x 6	Fair to Poor	Fair to Poor	Mod.C	21 to 40		2.4	1.9	BAYSIDE	BS_Undersize	NA	None	0
339	*Eucalyptus camaldulensis*	River Red Gum	Semi-mature	Indigenous (Planted)	20	10 x 5	Fair to Poor	Fair to Poor	Mod.C	21 to 40		2.4	2	BAYSIDE	BS_Undersize	NA	None	0
340	*Eucalyptus camaldulensis*	River Red Gum	Maturing	Indigenous (Planted)	51	13 x 10	Fair	Fair	Mod.B	21 to 40		6.1	2.7	BAYSIDE	BS_LL_permit	NA	None	0
341	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	78	15 x 13	Fair	Fair to Poor	Mod.B	21 to 40	Basal wounds, included bark forks, trunk wounds, partly suppressed - crown bias.	9.4	3.2	BAYSIDE	BS_LL_permit	NA	None	0
342	*Corymbia maculata*	Spotted Gum	Early-mature	Victorian native	33	12 x 8	Fair	Fair	Mod.B	>40	Partly suppressed - crown bias, nth.	4	2.3	BAYSIDE	BS_Undersize	NA	None	0
343	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	68	14 x 11	Fair	Fair	Mod.B	21 to 40	Acute forks, partly suppressed - crown bias, sw.	8.2	3.1	BAYSIDE	BS_LL_permit	NA	None	0
344	*Ulmus procera*	English Elm	Early-mature	Exotic deciduous	42	6 x 7	Fair	Fair	Mod.B	21 to 40		5	2.5	BAYSIDE	BS_Undersize	NA	None	0
345	*Eucalyptus ovata*	Swamp Gum	Early-mature	Indigenous (Planted)	52	13 x 14	Fair	Fair	Mod.B	21 to 40	Over-extended limbs developing.	6.2	2.7	BAYSIDE	BS_LL_permit	NA	None	0
346	*Agathis robusta*	Queensland Kauri	Semi-mature	Australian conifer	10	4 x 2	Fair	Fair	Mod.C	>40	Side shoots emerging below 1m need to be pruned away.	2	1.5	BAYSIDE	BS_Undersize	NA	None	0
347	*Melaleuca armillaris*	Bracelet Honey-myrtle	Early-mature	Victorian native	30 (est.)	7 x 10	Fair to Poor	Poor	Low	11 to 20		3.6	2.3	BAYSIDE	BS_Undersize	NA	None	0
348	*Eucalyptus ovata*	Swamp Gum	Maturing	Indigenous (Planted)	88,47	12 x 10	Poor	Poor	Low	1 to 5	Main leader dead.	12	3.4	BAYSIDE	BS_LL_permit	NA	None	0
349	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	46	7 x 8	Fair	Fair	Mod.B	>40		5.5	2.5	BAYSIDE	BS_Undersize	NA	None	0
350	*Eucalyptus camaldulensis*	River Red Gum	Maturing	Indigenous (Planted)	63	12 x 10	Fair to Poor	Fair	Mod.B	21 to 40		7.6	2.8	BAYSIDE	BS_LL_permit	NA	None	0
351	*Eucalyptus camaldulensis*	River Red Gum	Semi-mature	Indigenous (Planted)	24	6 x 5	Fair to Poor	Fair to Poor	Mod.C	21 to 40		2.9	1.9	BAYSIDE	BS_Undersize	NA	None	0
352	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	63	16 x 14	Fair	Fair	Mod.A	>40	Acute forks.	7.6	2.8	BAYSIDE	BS_LL_permit	NA	None	0
353	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	72	14 x 15	Fair	Fair	Mod.A	>40		8.6	3	BAYSIDE	BS_LL_permit	NA	None	0
354	*Eucalyptus botryoides*	Southern Mahogany	Over-mature	Victorian native	67,26,26,13,11	5 x 9	Fair to Poor	Poor	Very Low	1 to 5	Stump re-sprout. Remove to cut stump	9.4	3.6	BAYSIDE	BS_LL_permit	NA	None	0
355	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	35	7 x 6	Fair	Fair	Mod.B	>40		4.2	2.3	BAYSIDE	BS_Undersize	NA	None	0
356	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	54	8 x 9	Fair	Fair	Mod.B	>40		6.5	2.7	BAYSIDE	BS_LL_permit	NA	None	0
357	*Populus Xcanadensis*	Grey Poplar	Early-mature	Exotic deciduous	78	12 x 11	Fair to Poor	Fair to Poor	Low	6 to 10	Dieback advancing, habitat hollows.	9.4	2.7	BAYSIDE	BS_LL_permit	NA	None	0
358	*Cupressus macrocarpa 'Goldcrest'*	Golden Monterey Cypress	Maturing	Exotic conifer	74	8 x 12	Fair	Fair	Mod.C	11 to 20		8.9	3.1	BAYSIDE	BS_LL_permit	NA	None	0
359	*Eucalyptus botryoides*	Southern Mahogany	Early-mature	Victorian native	23,22,21,18	9 x 9	Fair to Poor	Fair to Poor	Low	11 to 20		5.1	2.8	BAYSIDE	BS_LL_permit	NA	None	0

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360	*Eucalyptus ovata*	Swamp Gum	Maturing	Indigenous (Planted)	50	10 x 12	Fair	Fair to Poor	Mod.C	21 to 40		6	2.6	BAYSIDE	BS_LL_permit	NA	None	0
361	*Cupressus macrocarpa*	Monterey Cypress	Maturing	Exotic conifer	112,52	14 x 16	Fair	Fair to Poor	Mod.C	11 to 20	Basal wounds, past branch failure, trunk wounds. Low canopy.	14.8	3.8	BAYSIDE	BS_LL_permit	NA	None	0
362	*Cupressus macrocarpa*	Monterey Cypress	Maturing	Exotic conifer	120, 55,51	16 x 15	Fair	Fair	Mod.B	21 to 40		15	4.1	BAYSIDE	BS_LL_permit	NA	None	0
363	*Eucalyptus sideroxylon*	Red Ironbark	Semi-mature	Australian native	35	10 x 6	Fair	Fair	Mod.B	21 to 40		4.2	2.3	BAYSIDE	BS_Undersize	NA	None	0
364	*Melaleuca armillaris*	Bracelet Honey-myrtle	Maturing	Victorian native	38,26,25,12	7 x 8	Fair	Poor	Low	11 to 20	Active split.	6.4	2.9	BAYSIDE	BS_LL_permit	NA	None	0
365	*Melaleuca armillaris*	Bracelet Honey-myrtle	Semi-mature	Victorian native	30,28,25,17,13	6 x 8	Fair	Fair	Mod.C	11 to 20		6.3	2.9	BAYSIDE	BS_LL_permit	NA	None	0
366	*Melaleuca armillaris*	Bracelet Honey-myrtle	Maturing	Victorian native	57,46	6 x 8	Fair	Fair to Poor	Mod.C	11 to 20		8.8	2.9	BAYSIDE	BS_LL_permit	NA	None	0
367	*Melaleuca armillaris*	Bracelet Honey-myrtle	Maturing	Victorian native	26,17	5 x 8	Fair to Poor	Poor	Low	11 to 20	Leaning trunk.	3.7	2.3	BAYSIDE	BS_Undersize	NA	None	0
368	*Melaleuca armillaris*	Bracelet Honey-myrtle	Maturing	Victorian native	65,30	6 x 10	Fair	Fair to Poor	Mod.C	11 to 20		8.6	2.9	BAYSIDE	BS_LL_permit	NA	None	0
369	*Melaleuca armillaris*	Bracelet Honey-myrtle	Early-mature	Victorian native	30	6 x 8	Fair	Fair	Mod.C	11 to 20		3.6	2.3	BAYSIDE	BS_Undersize	NA	None	0
370	*Albizia julibrissin*	Silk Tree	Semi-mature	Exotic deciduous	6,5	2 x 3	Fair	Fair to Poor	Low	1 to 5	Woody weed sp	2	1.5	BAYSIDE	BS_Undersize	NA	None	0
371	*Fraxinus angustifolia subsp. angustifolia*	Desert Ash	Maturing	Exotic deciduous	16,15,14,13,12 (est.)	7 x 8	Fair	Poor	Low	1 to 5	Multi-stemmed, stump re-sprout, woody weed sp. Remove to cut stump	3.8	2.6	BAYSIDE	BS_LL_permit	NA	None	0
372	*Phoenix canariensis*	Canary Island Date Palm	Early-mature	Exotic palm	45 (est.)	7 x 6	Fair	Fair	Mod.B	21 to 40	Observed from afar. IMG_2265_JPG.	4	2.5	BAYSIDE	BS_Undersize	NA	None	0
373	*Fraxinus angustifolia subsp. angustifolia*	Desert Ash	Maturing	Exotic deciduous	38,36 (est.)	10 x 10	Fair	Fair to Poor	Very Low	1 to 5	Woody weed sp	6.3	2.8	BAYSIDE	BS_LL_permit	NA	None	0
374	*Fraxinus angustifolia subsp. angustifolia*	Desert Ash	Semi-mature	Exotic deciduous	8,4	4 x 2	Fair	Poor	Very Low	1 to 5	Suckering, woody weed sp	2	1.5	BAYSIDE	BS_Undersize	NA	None	0
375	*Fraxinus angustifolia subsp. angustifolia*	Desert Ash	Semi-mature	Exotic deciduous	10,8,8,6,5	4 x 3	Fair	Poor	Very Low	1 to 5	Suckering, woody weed sp	2	1.5	BAYSIDE	BS_Undersize	NA	None	0
376	*Melaleuca armillaris*	Bracelet Honey-myrtle	Over-mature	Victorian native	60	5 x 8	Fair	Poor	Low	1 to 5	Collapsing, subsiding limbs.	7.2	2.8	BAYSIDE	BS_LL_permit	NA	None	0
377	*Allocasuarina verticillata*	Drooping She-oak	Young	Indigenous (Planted)	4	3 x 1	Fair	Fair to Poor	Mod.C	11 to 20	Included bark forks. Formative pruning	2	1.5	BAYSIDE	BS_Undersize	NA	None	0
378	*Acacia mearnsii*	Late Black Wattle	Semi-mature	Indigenous (Planted)	9	5 x 4	Fair	Fair	Mod.C	11 to 20		2	1.5	BAYSIDE	BS_Undersize	NA	None	0
379	*Allocasuarina verticillata*	Drooping She-oak	Young	Indigenous (Planted)	4	3 x 1	Fair	Fair to Poor	Mod.C	11 to 20	Included bark forks. Formative pruning	2	1.5	BAYSIDE	BS_Undersize	NA	None	0
380	*Lophostemon confertus*	Brush Box	Semi-mature	Australian native	13,12,10,10	4 x 5	Fair	Fair to Poor	Low	11 to 20		2.7	2.1	BAYSIDE	BS_Undersize	NA	None	0
381	*Lophostemon confertus*	Brush Box	Semi-mature	Australian native	24	4 x 5	Fair	Fair to Poor	Low	11 to 20		2.9	1.9	BAYSIDE	BS_Undersize	NA	None	0
382	*Fraxinus angustifolia*	Narrow-leaved Ash	Young	Exotic deciduous	5,5,5	5 x 3	Poor	Poor	Low	6 to 10		2	1.5	BAYSIDE	BS_Undersize	NA	None	0
383	*Cupressus macrocarpa*	Monterey Cypress	Early-mature	Exotic conifer	30,25 (est.)	10 x 8	Poor	Poor	Low	6 to 10	Tip dieback.	4.7	2.4	BAYSIDE	BS_LL_permit	NA	None	0
384	*Fraxinus angustifolia*	Narrow-leaved Ash	Young	Exotic deciduous	5,5	5 x 2	Fair	Fair	Low	11 to 20		2	1.5	BAYSIDE	BS_Undersize	NA	None	0
385	*Fraxinus angustifolia*	Narrow-leaved Ash	Young	Exotic deciduous	3	4 x 2	Fair	Fair	Low	11 to 20		2	1.5	BAYSIDE	BS_Undersize	NA	None	0
386	*Fraxinus angustifolia*	Narrow-leaved Ash	Young	Exotic deciduous	5	4 x 2	Fair	Fair	Low	11 to 20		2	1.5	BAYSIDE	BS_Undersize	NA	None	0

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387	*Fraxinus angustifolia*	Narrow-leaved Ash	Young	Exotic deciduous	5	4 x 2	Fair	Fair	Low	11 to 20		2	1.5	BAYSIDE	BS_Undersize	NA	None	0
388	*Fraxinus angustifolia*	Narrow-leaved Ash	Young	Exotic deciduous	5	4 x 2	Fair	Fair	Low	6 to 10		2	1.5	BAYSIDE	BS_Undersize	NA	None	0
389	*Eucalyptus cladocalyx*	Sugar Gum	Maturing	Australian native	141	24 x 18	Fair	Fair to Poor	Mod.B	11 to 20	Crossing branches, past branch failure.	15	4	BAYSIDE	BS_LL_permit	NA	None	0
390	*Fraxinus angustifolia*	Narrow-leaved Ash	Young	Exotic deciduous	6,5	4 x 2	Fair	Fair	Low	11 to 20		2	1.5	BAYSIDE	BS_Undersize	NA	None	0
391	*Callistemon salignus*	Willow Bottlebrush	Young	Australian native	3	2 x 1	Fair	Fair	Low	11 to 20		2	1.5	BAYSIDE	BS_Undersize	NA	None	0
392	*Eucalyptus camaldulensis*	River Red Gum	Maturing	Indigenous (Planted)	71	18 x 12	Fair	Fair	Mod.B	21 to 40		8.5	2.9	BAYSIDE	BS_LL_permit	NA	None	0
393	*Corymbia maculata*	Spotted Gum	Semi-mature	Victorian native	44,24	14 x 10	Fair	Fair	Mod.B	21 to 40		6	2.6	BAYSIDE	BS_LL_permit	NA	None	0
394	*Corymbia maculata*	Spotted Gum	Semi-mature	Victorian native	17	10 x 6	Fair	Fair	Mod.C	21 to 40		2	1.7	BAYSIDE	BS_Undersize	NA	None	0
395	*Eucalyptus camaldulensis*	River Red Gum	Maturing	Indigenous (Planted)	77	16 x 12	Fair	Fair	Mod.B	21 to 40		9.2	3.2	BAYSIDE	BS_LL_permit	NA	None	0
396	*Corymbia maculata*	Spotted Gum	Early-mature	Victorian native	41	15 x 11	Fair	Fair to Poor	Mod.C	11 to 20	Included bark forks w compression flaring. Reduce lesser co-dominant stem	4.9	2.4	BAYSIDE	BS_Undersize	NA	None	0
397	*Corymbia maculata*	Spotted Gum	Semi-mature	Victorian native	19	8 x 5	Fair	Fair	Mod.C	21 to 40	Suppressed.	2.3	1.7	BAYSIDE	BS_Undersize	NA	None	0
398	*Corymbia maculata*	Spotted Gum	Early-mature	Victorian native	38	15 x 11	Fair	Fair	Mod.B	>40		4.6	2.4	BAYSIDE	BS_Undersize	NA	None	0
399	*Corymbia citriodora*	Lemon-scented Gum	Early-mature	Australian native	41	15 x 12	Good	Fair	Mod.A	>40		4.9	2.4	BAYSIDE	BS_Undersize	NA	None	0
400	*Eucalyptus sideroxylon*	Red Ironbark	Early-mature	Australian native	40	9 x 6	Fair	Fair to Poor	Mod.C	11 to 20		4.8	2.3	BAYSIDE	BS_Undersize	NA	None	0
401	*Corymbia maculata*	Spotted Gum	Early-mature	Victorian native	49	15 x 9	Fair	Fair to Poor	Mod.B	21 to 40	Co-dominant stems w compression flaring.	5.9	2.5	BAYSIDE	BS_LL_permit	NA	None	0
402	*Eucalyptus leucoxylon 'Rosea'*	Pink-flowered Yellow Gum	Early-mature	Australian native	21,16	5 x 6	Fair	Fair	Mod.B	21 to 40	Acute forks.	3.2	2.1	BAYSIDE	BS_Undersize	NA	None	0
403	*Corymbia ficifolia*	Red-flowering Gum	Semi-mature	Australian native	23	6 x 4	Fair to Poor	Fair to Poor	Mod.C	11 to 20		2.8	1.8	BAYSIDE	BS_Undersize	NA	None	0
404	*Eucalyptus kitsoniana*	Gippsland Mallee	Semi-mature	Victorian native	28,10,8	8 x 5	Fair	Fair	Mod.C	21 to 40		3.6	2.1	BAYSIDE	BS_Undersize	NA	None	0
405	*Eucalyptus cladocalyx*	Sugar Gum	Maturing	Australian native	165,75	11 x 19	Fair	Fair to Poor	Mod.C	11 to 20	Past limb failure, trunk wounds. Past stem removal & crown reduction.	15	4.2	BAYSIDE	BS_LL_permit	NA	None	0
406	*Eucalyptus camaldulensis*	River Red Gum	Young	Indigenous (Planted)	10,6	5 x 5	Fair	Fair	Mod.C	>40		2	1.7	BAYSIDE	BS_Undersize	NA	None	0
407	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	40 @0.8;1.0m	14 x 10	Fair	Fair	Mod.B	21 to 40		4.8	2.4	BAYSIDE	BS_Undersize	NA	None	0
408	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	35	12 x 10	Fair	Fair	Mod.B	21 to 40		4.2	2.3	BAYSIDE	BS_Undersize	NA	None	0
409	*Eucalyptus ovata*	Swamp Gum	Early-mature	Indigenous (Planted)	30	10 x 6	Fair to Poor	Fair to Poor	Mod.C	11 to 20		3.6	2.1	BAYSIDE	BS_Undersize	NA	None	0
410	*Eucalyptus camaldulensis*	River Red Gum	Semi-mature	Indigenous (Planted)	25,20,20 (est.)	14 x 10	Fair	Fair	Mod.B	21 to 40		4.5	2.3	BAYSIDE	BS_LL_permit	NA	None	0
411	*Eucalyptus camaldulensis*	River Red Gum	Semi-mature	Indigenous (Planted)	12	5 x 4	Fair	Fair	Mod.C	21 to 40		2	1.5	BAYSIDE	BS_Undersize	NA	None	0
412	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	21 (est.)	10 x 7	Fair	Fair	Mod.B	>40		2.5	2	BAYSIDE	BS_Undersize	NA	None	0
413	*Eucalyptus camaldulensis*	River Red Gum	Semi-mature	Indigenous (Planted)	20	12 x 7	Fair	Fair	Mod.B	21 to 40		2.4	1.8	BAYSIDE	BS_Undersize	NA	None	0
414	*Platanus Xacerifolia*	London Plane	Maturing	Exotic deciduous	95	16 x 15	Fair	Fair	Mod.B	11 to 20	Street tree. limited growing space, abutting BoK.Crown bias-East	11.4	3.3	PORT PHILLIP	PP_LL_permit	Old drain - 39.76%,Road crossing - 44.8%	SRZ	55.67

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treeid	species	comm_name	age_class	origin_typ	dbh_cm	height x width (m)	health	structure	arb_rating	ule_yrs	comments	tpz_rad_m	srz_rad_m	LGA	LL_Permit	Impact_name	Impact	%TPZ_enc
G1	*Acacia longifolia var. sophorae, Correa alba, Leptospermum laevigatum*	Coast Wattle, White Correa, Coast Tea-tree	Early-mature	Indigenous (Planted)	10 (est.)	3 x 3	Fair	Fair to Poor	Mod.C	11 to 20	Group of ~10 trees. Sprawling garden bed.	2	1.5	BAYSIDE	VPO1	Access track - 0.3%,Crane - 16.66%,Storage/Turning area - 82.73%	Within	99.68
G2	*Leptospermum laevigatum, Myoporum insulare, Westringia glabra*	Coast Tea-tree, Boobialla, Violet Westringia	Early-mature	Indigenous (Planted)	10 (est.)	3 to 5 x 3 to 5	Fair	Fair to Poor	Mod.C	11 to 20	Group of ~10 trees.	2	1.5	BAYSIDE	VPO1	Access track - 17.5%,Storage/Turning area - 54.24%	71.74% Within footprint	71.74
G3	*Leptospermum laevigatum, Westringia glabra*	Coast Tea-tree, Violet Westringia	Early-mature	Indigenous (Planted)	10 (est.)	3 to 5 x 3 to 5	Fair	Fair to Poor	Mod.C	11 to 20	Group of ~10 trees. Vine infested.	2	1.5	BAYSIDE	VPO1	Access track - 3.52%,Storage/Turning area - 1.16% / (Non-Contiguous Areas: Access track - 1.16%)	4.67% Within footprint	4.67
G5	*Euonymus japonicus, Euonymus japonicus 'Aureomarginatus'*	Spindle Tree, Golden Variegated Spindle Tree	Early-mature	Exotic evergreen, Exotic evergreen	10 (est.)	2 to 3 x 3 to 5	Fair	Fair	Mod.C	11 to 20	Group of 4 Shrubs.	2	1.5	PORT PHILLIP	PP_Undersize	Head St Work zone - 68.05%	68.05% Within footprint	68.05
G4	*Tecomaria capensis*	Cape Honeysuckle	Maturing	Exotic evergreen	9 (multi-stem)	2 to 3 x 5 to 8	Fair	Fair	Low	6 to 10	Group of Suckering. Vines.	2	1.5	PORT PHILLIP	PP_Undersize	Head St Work zone - 100.0%,New Culvert - 99.27%,Road crossing - 29.53%	Within	100
G6	*Lagerstroemia indica*	Crape Myrtle	Early-mature	Exotic deciduous	12 (multi-stem)	4 x 5	Fair	Fair	Mod.B	21 to 40	Group of 9 trees. Arranged in circle 1.2m apart.	2	1.8	PORT PHILLIP	PP_Undersize	Crane - 93.81%,Head St Work zone - 6.2%	Within	100.01
G7	*Juniperus chinensis*	Chinese Juniper	Early-mature	Exotic conifer	7	2 x 1	Fair	Fair	Mod.C	11 to 20	Group of 6 clipped trees.	2	1.6	BAYSIDE	BS_Undersize	New Culvert - 79.25%,North Workzone - 85.48%,Road crossing - 63.66% / (Non-Contiguous Areas: New Culvert - 0.32%)	85.48% Within footprint	85.48
G8	*Acacia implexa, Acacia paradoxa, Bursaria spinosa, Eucalyptus camaldulensis, Myoporum insulare*	Lightwood, Hedge Wattle, Sweet Bursaria, River Red Gum, Boobialla	Semi-mature	Indigenous (Planted)	10 (multi-stem)	2 to 5 x 3 to 5	Fair	Fair to Poor	Mod.C	11 to 20	Group of ~50 trees.	2	1.6	BAYSIDE	BS_Undersize	New Culvert - 16.81%,North Workzone - 67.08%,Old drain - 13.42%,Road crossing - 0.4%	67.08% Within footprint	67.08
G12	*Eucalyptus camaldulensis*	River Red Gum	Young	Indigenous (Planted)	9	3 to 6 x 1 to 2	Fair	Fair	Mod.C	>40	Group of ~11 trees. Natural recruitment.	2	1.5	BAYSIDE	BS_Undersize	NA	None	0
G9	*Acacia implexa, Bursaria spinosa, Correa alba*	Lightwood, Sweet Bursaria, White Correa	Semi-mature	Indigenous (Planted)	5	1 to 3 x 1 to 3	Fair	Fair to Poor	Mod.C	11 to 20	Group of ~15 trees.	2	1.5	BAYSIDE	BS_Undersize	Crane - 60.81%,North Workzone - 39.19%,Old drain - 21.55%	Within	100
G10	*Acacia implexa, Acacia melanoxylon, Acacia paradoxa, Correa alba, Correa reflexa, Eucalyptus melliodora*	Lightwood, Blackwood, Hedge Wattle, White Correa, Common Correa	Semi-mature	Indigenous (Planted)	2	1 to 3 x 1 to 3	Fair	Fair	Mod.C	11 to 20	Group of ~20 trees. Understorey & groundcovers.	2	1.5	BAYSIDE	BS_Undersize	New Culvert - 0.52%,North Workzone - 59.83%,Old drain - 37.7%	59.86% Within footprint	59.86

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treeid	species	comm_name	age_class	origin_typ	dbh_cm	height x width (m)	health	structure	arb_rating	ule_yrs	comments	tpz_rad_m	srz_rad_m	LGA	LL_Permit	Impact_name	Impact	%TPZ_enc
G11	*Acacia paradoxa, Correa alba, Eucalyptus camaldulensis, Eucalyptus melliodora, Westringia glabra*	Hedge Wattle, White Correa, River Red Gum, Yellow Box, Violet Westringia	Semi-mature	Indigenous (Planted), Victorian native	6	1 to 3 x 1 to 3	Fair	Fair	Mod.C	11 to 20	Group of ~15 trees.	2	1.5	BAYSIDE	BS_Undersize	North Workzone - 34.73%,Old drain - 34.36% / (Non-Contiguous Areas: North Workzone - 0.29%,Old drain - 0.7%)	35.06% Within footprint	35.06
G13	*Acacia paradoxa*	Hedge Wattle	Early-mature	Victorian native	3	1 to 2 x 2 to 3	Fair	Fair	Low	11 to 20	Group of ~16 prickly shrubs.	2	3.1	BAYSIDE	BS_Undersize	NA	None	0
G16	*Fraxinus angustifolia subsp. angustifolia*	Desert Ash	Semi-mature	Exotic deciduous	9	3 x 1	Fair	Fair to Poor	Very Low	<1	Group of ~7 trees. Suckering, woody weed sp Remove & poison cut stumps	2	1.5	BAYSIDE	BS_Undersize	NA	None	0
G17	*Cupressus macrocarpa*	Monterey Cypress	Maturing	Exotic conifer	60,50,45	13 x 14	Fair to Poor	Fair to Poor	Low	6 to 10	Group of ~7 trees. Minor dieback, subsiding limbs.	10.8	3.6	BAYSIDE	BS_LL_permit	NA	None	0
G18	*Coprosma repens, Fraxinus angustifolia subsp. angustifolia*	Mirror Bush, Desert Ash	Early-mature	Exotic evergreen, Exotic deciduous	20	3 to 10 x 3 to 10	Fair to Poor	Poor	Very Low	1 to 5	Group of ~15 trees. Suckering, woody weed sp	2.4	1.8	BAYSIDE	BS_Undersize	NA	None	0
G15	*Eucalyptus camaldulensis*	River Red Gum	Semi-mature	Indigenous (Planted)	9	4 x 2	Fair	Fair	Mod.C	21 to 40	Group of ~6 trees. Recruiting row of Red Gums.	2	1.5	BAYSIDE	BS_Undersize	NA	None	0
G14	*Eucalyptus camaldulensis*	River Red Gum	Semi-mature	Indigenous (Planted)	12	7 x 3	Fair	Fair	Mod.B	21 to 40	Group of ~3 trees.	2	1.5	BAYSIDE	BS_Undersize	NA	None	0
G19	*Eucalyptus camaldulensis, Eucalyptus ovata*	River Red Gum, Swamp Gum	Semi-mature	Indigenous (Planted)	10	45570 x 45414	Fair to Poor	Fair to Poor	Mod.C	21 to 40	Group of ~5 trees.	2	1.5	BAYSIDE	BS_Undersize	NA	None	0

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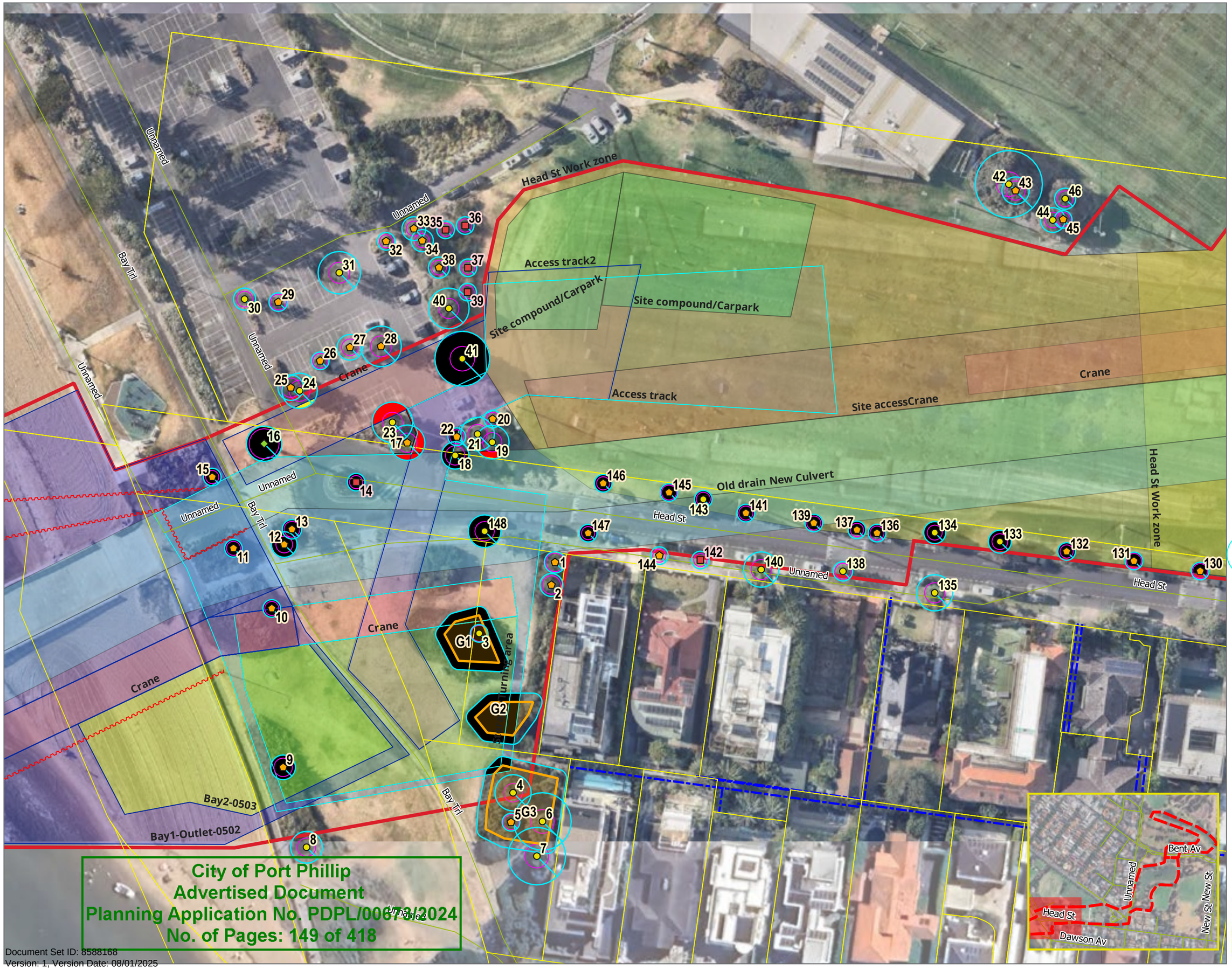
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Appendix 2: Tree Protection Zone Impacts Plan: Elwood Diversion Drain

Refer to following 6 pages

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LEGEND

Trees by Arb rating
- Mod-A
- Mod-B
- Mod-C
- Low
- Very Low

Groups by Arb rating
- Mod-C

TL_impacts_240909
- TPZ
- SRZ
- Within

footprint
- Access track
- Bay1-Outlet-0502
- Bay2-0503
- Crane
- Head St Work zone
- New Culvert
- Old drain
- Site access
- Site compound/Carpark
- Storage/Turning area
- cadastre
- easements
- Tree Protection Zone
- Structural Root Zone

APPENDIX 2
TREE PROTECTION ZONE ENCROACHMENT

MAP NO. 1 / 6

PROJECT
Elster & Elwood Drain Project

CLIENT
Nation Partners

TL REF.
13209

DATE
2024-09-11

DATA SOURCES
NearMap aerial imagery- 21/3/24
KBR design layers 24-09-10

TREE LOCATION DISCLAIMER
Tree locations are approximate

COORDINATE REFERENCE SYSTEM
EPSG:28355 | GDA 94 MGA Zone 55

0 10 20m

TREELOGIC PTY LTD
ABN: 95 080 021 610
TEL: 1300 656 926
4 / 21 Eugene Tce
Ringwood, VIC
Australia 3134

Treelogic
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Ormond Esp
Kingsley St
St Kilda St
Unnamed
Road crossing
Site access Crane
Crane
Old drain
New Culvert
Head St Work zone
Head St
North Workzone
Dawson Av
Bent Av
New St

LEGEND

Trees by Arb rating
- High
- Mod-A
- Mod-B
- Mod-C
- Low
- Very Low

Groups by Arb rating
- Mod-B
- Mod-C
- Low
- Very Low

TL_impacts_240909
- TPZ
- SRZ
- Within
- TPZ_Major

footprint
- Crane
- Head St Work zone
- New Culvert
- North Workzone
- Old drain
- Road crossing
- Site access

Tree Protection Zone
Structural Root Zone
cadastre
easements

APPENDIX 2

TREE PROTECTION ZONE ENCROACHMENT

MAP NO. 2 / 6

PROJECT
Elster & Elwood Drain Project

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DATE
2024-09-11

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EPSG:28355 | GDA 94 MGA Zone 55

0 10 20m

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LEGEND

Trees by Arb rating
- Mod-A
- Mod-B
- Mod-C
- Low
- Very Low

Groups by Arb rating
- Mod-C
- Low
- Very Low

TL_impacts_240909
- TPZ
- SRZ
- Within
- TPZ_Major

footprint
- Crane
- New Culvert
- North Workzone
- Old drain
- Road crossing
- cadastre
- easements

Tree Protection Zone
Structural Root Zone

APPENDIX 2
TREE PROTECTION ZONE ENCROACHMENT

MAP NO. 3 / 6

PROJECT
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DATE
2024-09-11

DATA SOURCES
NearMap aerial imagery- 21/3/24
KBR design layers 24-09-10

TREE LOCATION DISCLAIMER
Tree locations are approximate

COORDINATE REFERENCE SYSTEM
EPSG:28355 | GDA 94 MGA Zone 55

0 10 20m

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Bent Av
St Kilda St
Phyllis St
Unnamed
Elster Canal Path

LEGEND

Trees by Arb rating
- Mod-A
- Mod-B
- Mod-C
- Low
- Very Low

Groups by Arb rating
- Mod-B
- Mod-C
- Low
- Very Low
- cadastre
- easements

Tree Protection Zone
Structural Root Zone

APPENDIX 2
TREE PROTECTION ZONE ENCROACHMENT

MAP NO. 4 / 6

PROJECT
Elster & Elwood Drain Project

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Nation Partners

TL REF.
13209

DATE
2024-09-11

DATA SOURCES
NearMap aerial imagery- 21/3/24
KBR design layers 24-09-10

TREE LOCATION DISCLAIMER
Tree locations are approximate

COORDINATE REFERENCE SYSTEM
EPSG:28355 | GDA 94 MGA Zone 55

0 10 20m

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LEGEND

Trees by Arb rating
- Mod-A
- Mod-B
- Mod-C
- Low
- Very Low

Groups by Arb rating
- Low
- Very Low
- cadastre

Tree Protection Zone
Structural Root Zone

APPENDIX 2

TREE PROTECTION ZONE ENCROACHMENT

MAP NO. 5 / 6

PROJECT
Elster & Elwood Drain Project

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Nation Partners

TL REF.
13209

DATE
2024-09-11

DATA SOURCES
NearMap aerial imagery- 21/3/24
KBR design layers 24-09-10

TREE LOCATION DISCLAIMER
Tree locations are approximate

COORDINATE REFERENCE SYSTEM
EPSG:28355 | GDA 94 MGA Zone 55

0 10 20m

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Australia 3134

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Version: 1, Version Date: 08/01/2025



LEGEND

Trees by Arb rating

- Mod-A
- Mod-B
- Mod-C
- Low
- Very Low
- cadastre

APPENDIX 2

TREE PROTECTION ZONE ENCROACHMENT

MAP NO. 6 / 6

PROJECT

Elster & Elwood Drain Project

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Nation Partners

TL REF.
13209

DATE
2024-09-11

DATA SOURCES

NearMap aerial imagery- 21/3/24
KBR design layers 24-09-10

TREE LOCATION DISCLAIMER

Tree locations are approximate

COORDINATE REFERENCE SYSTEM

EPSG:28355 | GDA 94 MGA Zone 55

0 10 20m

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Australia 3134

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Tree Pictures

Tree ID:1. *Myoporum insulare* (Boobialla), Over-mature Indigenous (Planted).
DBH: 14,14 (est.)cm. HxW (m): 3 x 6. Health: Fair. Structure: Fair to Poor. Arb. Rating: Mod.C. Sprawling shrub.. TPZ (rad. m): 2.4. SRZ (rad. m): 2.1. Permit: VPO1.



Tree ID:2. *Myoporum insulare* (Boobialla), Maturing Indigenous (Planted).
DBH: 16,15 (est.)cm. HxW (m): 4 x 6. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. Sprawling shrub.. TPZ (rad. m): 2.6. SRZ (rad. m): 2.1. Permit: VPO1.



Tree ID:3. *Tamarix sp.* (Tamarisk), Early-mature Exotic evergreen.
DBH: 8,8,7,6 (est.)cm. HxW (m): 4 x 6. Health: Fair. Structure: Fair to Poor. Arb. Rating: Mod.B. Sprawling shrub.. TPZ (rad. m): 2. SRZ (rad. m): 1.8. Permit: BS_Undersize.



Tree ID:4. *Banksia integrifolia* (Coast Banksia), Early-mature Indigenous (Planted).
DBH: 18,17,17,16 (est.)cm. HxW (m): 6 x 6. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. Vine infested. At base.. TPZ (rad. m): 4.1. SRZ (rad. m): 2.1. Permit: VPO1.



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Tree ID:5. *Banksia integrifolia* (Coast Banksia), Semi-mature Indigenous (Planted).
DBH: 15 (est.)cm. HxW (m): 5 x 5. Health: Fair. Structure: Fair to Poor. Arb. Rating: Mod.C. Vine infested.. TPZ (rad. m): 2. SRZ (rad. m): 1.7. Permit: VPO1.



Tree ID:6. *Allocasuarina verticillata* (Drooping She-oak), Maturing Indigenous (Planted).
DBH: 54cm. HxW (m): 5 x 7. Health: Good. Structure: Fair. Arb. Rating: Mod.B. Over-extended limbs developing, west.. TPZ (rad. m): 6.5. SRZ (rad. m): 2.7. Permit: VPO1.



Tree ID:7. *Banksia integrifolia* (Coast Banksia), Maturing Indigenous (Planted).
DBH: 54 @0.8mcm. HxW (m): 10 x 7. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. Past limb failure.. TPZ (rad. m): 6.5. SRZ (rad. m): 2.7. Permit: VPO1.



Tree ID:8. *Allocasuarina verticillata* (Drooping She-oak), Early-mature Indigenous (Planted).
DBH: 30 (est.)cm. HxW (m): 5 x 6. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. Over-extended limbs developing, ne. Wind-swept.. TPZ (rad. m): 3.6. SRZ (rad. m): 2.1. Permit: VPO1.



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Tree ID:9. *Cupressus macrocarpa* (Monterey Cypress), Early-mature Exotic conifer.
DBH: 23 (est.)cm. HxW (m): 4 x 6. Health: Fair to Poor. Structure: Fair to Poor. Arb. Rating: Mod.C. Neighbour's tree, over-extended limbs developing. Wind-swept.. TPZ (rad. m): 2.8. SRZ (rad. m): 2.1. Permit: BS_Undersize.



Tree ID:10. *Acacia saligna* (Golden Wreath Wattle), Semi-mature Australian native.
DBH: 10,8,7,6 (est.)cm. HxW (m): 2 x 4. Health: Fair. Structure: Fair to Poor. Arb. Rating: Mod.C. Hedged.. TPZ (rad. m): 2. SRZ (rad. m): 1.6. Permit: BS_Undersize.



Tree ID:11. *Leptospermum laevigatum* (Coast Tea-tree), Early-mature Indigenous (Planted).
DBH: 10,9,8 (est.)cm. HxW (m): 3 x 5. Health: Fair. Structure: Fair to Poor. Arb. Rating: Mod.C. Sprawling tree in garden bed.. TPZ (rad. m): 2. SRZ (rad. m): 1.6. Permit: VPO1.



Tree ID:12. *Leptospermum laevigatum* (Coast Tea-tree), Maturing Indigenous (Planted).
DBH: 24cm. HxW (m): 3 x 6. Health: Fair to Poor. Structure: Fair to Poor. Arb. Rating: Mod.C. Trunk leaning, east. Windswept.. TPZ (rad. m): 2.9. SRZ (rad. m): 1.9. Permit: VPO1.



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Tree ID:13. *Araucaria heterophylla* (Norfolk Island Pine), Early-mature Australian conifer.
DBH: 18cm. HxW (m): 7 x 4. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. Reduced foliage density.. TPZ (rad. m): 2.2. SRZ (rad. m): 1.8. Permit: BS_Undersize.



Tree ID:14. *Araucaria heterophylla* (Norfolk Island Pine), Young Australian conifer.
DBH: 6cm. HxW (m): 2 x 1. Health: Fair to Poor. Structure: Fair. Arb. Rating: Low. Salt-burn.. TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: BS_Undersize.



Tree ID:15. *Leptospermum laevigatum* (Coast Tea-tree), Semi-mature Indigenous (Planted).
DBH: 4,3,2,2cm. HxW (m): 2 x 2. Health: Fair. Structure: Fair to Poor. Arb. Rating: Mod.C. Sprawling tree in garden bed.. TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: VPO1.



Tree ID:16. *Phoenix canariensis* (Canary Island Date Palm), Maturing Exotic palm.
DBH: 100cm. HxW (m): 14 x 6. Health: Fair. Structure: Fair. Arb. Rating: Mod.A. 1 row of depleted fronds.. TPZ (rad. m): 4. SRZ (rad. m): 3.4. Permit: PP_LL_permit.



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Tree ID:17. *Araucaria heterophylla* (Norfolk Island Pine), Early-mature Australian conifer.
DBH: 33cm. HxW (m): 8 x 6. Health: Fair. Structure: Fair to Poor. Arb. Rating: Mod.C. Incipient decay, trunk wounds, west.. TPZ (rad. m): 4. SRZ (rad. m): 2.2. Permit: PP_Undersize.



Tree ID:18. *Allocasuarina verticillata* (Drooping She-oak), Maturing Indigenous (Planted).
DBH: 26cm. HxW (m): 6 x 5. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. Acute forks.. TPZ (rad. m): 3.1. SRZ (rad. m): 2.2. Permit: PP_Undersize.



Tree ID:19. *Banksia integrifolia* (Coast Banksia), Early-mature Indigenous (Planted).
DBH: 32cm. HxW (m): 6 x 5. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. . TPZ (rad. m): 3.8. SRZ (rad. m): 2.2. Permit: PP_Undersize.



Tree ID:20. *Banksia integrifolia* (Coast Banksia), Semi-mature Indigenous (Planted).
DBH: 10,6 (est.)cm. HxW (m): 4 x 2. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. Vine infested.. TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: PP_Undersize.



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Tree ID:21. *Banksia integrifolia* (Coast Banksia), Early-mature Indigenous (Planted).
DBH: 28,15 (est.)cm. HxW (m): 6 x 5. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. Trunk obscured by vine.. TPZ (rad. m): 3.8. SRZ (rad. m): 2.2. Permit: PP_Undersize.



Tree ID:22. *Leptospermum laevigatum* (Coast Tea-tree), Early-mature Indigenous (Planted).
DBH: 11,7,5,4 (est.)cm. HxW (m): 3 x 4. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. Vine infested.. TPZ (rad. m): 2. SRZ (rad. m): 1.6. Permit: PP_Undersize.



Tree ID:23. *Banksia integrifolia* (Coast Banksia), Early-mature Indigenous (Planted).
DBH: 38 @0.8mcm. HxW (m): 7 x 6. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. . TPZ (rad. m): 4.6. SRZ (rad. m): 2.3. Permit: PP_Undersize.



Tree ID:24. *Banksia integrifolia* (Coast Banksia), Maturing Indigenous (Planted).
DBH: 19,18,16,14cm. HxW (m): 5 x 5. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. . TPZ (rad. m): 4. SRZ (rad. m): 2.4. Permit: PP_LL_permit.



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Tree ID:25. *Banksia integrifolia* (Coast Banksia), Maturing Indigenous (Planted).
DBH: 15,11,11,10,7cm. HxW (m): 5 x 5. Health: Fair. Structure: Fair to Poor. Arb. Rating: Mod.C. . TPZ (rad. m): 2.9. SRZ (rad. m): 2.2. Permit: PP_LL_permit.



Tree ID:27. *Banksia integrifolia* (Coast Banksia), Early-mature Indigenous (Planted).
DBH: 24cm. HxW (m): 4 x 4. Health: Fair to Poor. Structure: Fair. Arb. Rating: Mod.C. Minor dieback, nth.. TPZ (rad. m): 2.9. SRZ (rad. m): 1.9. Permit: PP_Undersize.



Tree ID:26. *Myoporum insulare* (Boobialla), Early-mature Indigenous (Planted).
DBH: 15,7,6,5 (est.)cm. HxW (m): 2 x 4. Health: Fair. Structure: Fair to Poor. Arb. Rating: Mod.C. . TPZ (rad. m): 2. SRZ (rad. m): 1.7. Permit: PP_Undersize.



Tree ID:28. *Banksia integrifolia* (Coast Banksia), Maturing Indigenous (Planted).
DBH: 26,23,17cm. HxW (m): 7 x 6. Health: Fair to Poor. Structure: Fair. Arb. Rating: Mod.C. Tip dieback.. TPZ (rad. m): 4.6. SRZ (rad. m): 2.4. Permit: PP_LL_permit.



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Tree ID:29. *Banksia integrifolia* (Coast Banksia), Semi-mature Indigenous (Planted).
DBH: 13,12cm. HxW (m): 3 x 3. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. . TPZ (rad. m): 2.1. SRZ (rad. m): 1.8. Permit: PP_Undersize.



Tree ID:30. *Banksia integrifolia* (Coast Banksia), Early-mature Indigenous (Planted).
DBH: 16,13cm. HxW (m): 5 x 3. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. . TPZ (rad. m): 2.5. SRZ (rad. m): 1.8. Permit: PP_Undersize.



Tree ID:31. *Banksia integrifolia* (Coast Banksia), Early-mature Indigenous (Planted).
DBH: 25,24,20cm. HxW (m): 6 x 7. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. Reduced foliage density. In new cut-out.. TPZ (rad. m): 4.8. SRZ (rad. m): 2.4. Permit: PP_LL_permit.



Tree ID:32. *Leptospermum laevigatum* (Coast Tea-tree), Semi-mature Indigenous (Planted).
DBH: 12cm. HxW (m): 3 x 2. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. Trunk leaning, east.. TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: PP_Undersize.



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Tree ID:33. *Allocasuarina verticillata* (Drooping She-oak), Semi-mature Indigenous (Planted).
DBH: 16,12,11 (est.)cm. HxW (m): 4 x 4. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. Partly suppressed - crown bias, nth.. TPZ (rad. m): 2.7. SRZ (rad. m): 1.7. Permit: PP_Undersize.



Tree ID:34. *Allocasuarina verticillata* (Drooping She-oak), Semi-mature Indigenous (Planted).
DBH: 14,12,10cm. HxW (m): 4 x 4. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. . TPZ (rad. m): 2.5. SRZ (rad. m): 1.6. Permit: PP_Undersize.



Tree ID:35. *Acacia paradoxa* (Hedge Wattle), Early-mature Victorian native.
DBH: 8,6,6,5cm. HxW (m): 3 x 4. Health: Fair. Structure: Fair. Arb. Rating: Low. . TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: PP_Undersize.



Tree ID:36. *Allocasuarina verticillata* (Drooping She-oak), Semi-mature Indigenous (Planted).
DBH: 10 (est.)cm. HxW (m): 3 x 3. Health: Fair. Structure: Fair. Arb. Rating: Low. . TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: PP_Undersize.



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Tree ID:37. *Myoporum insulare* (Boobialla), Early-mature Indigenous (Planted).
DBH: 8 (multi-stem)cm. HxW (m): 3 x 4. Health: Fair. Structure: Fair to Poor. Arb. Rating: Low. Multi-stemmed, shrub.. TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: PP_Undersize.



Tree ID:38. *Allocasuarina verticillata* (Drooping She-oak), Semi-mature Indigenous (Planted).
DBH: 15,13cm. HxW (m): 3 x 3. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. . TPZ (rad. m): 2.4. SRZ (rad. m): 1.7. Permit: PP_Undersize.



Tree ID:39. *Myoporum insulare* (Boobialla), Early-mature Indigenous (Planted).
DBH: 8cm. HxW (m): 3 x 4. Health: Fair. Structure: Fair to Poor. Arb. Rating: Low. Multi-stemmed, shrub.. TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: PP_Undersize.



Tree ID:40. *Allocasuarina verticillata* (Drooping She-oak), Early-mature Indigenous (Planted).
DBH: 38 (est.)cm. HxW (m): 6 x 6. Health: Good. Structure: Fair. Arb. Rating: Mod.B. Vine infested. On lower trunk.. TPZ (rad. m): 4.6. SRZ (rad. m): 2.3. Permit: PP_Undersize.



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Tree ID:41. *Banksia integrifolia* (Coast Banksia), Early-mature Indigenous (Planted).
DBH: 36,27,26cm. HxW (m): 8 x 7. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. . TPZ (rad. m): 6.2. SRZ (rad. m): 2.8. Permit: PP_LL_permit.



Tree ID:42. *Allocasuarina verticillata* (Drooping She-oak), Early-mature Indigenous (Planted).
DBH: 45,40,20@0.1mcm. HxW (m): 6 x 12. Health: Fair. Structure: Fair to Poor. Arb. Rating: Mod.B. Subsiding limbs, nw.. TPZ (rad. m): 7.6. SRZ (rad. m): 2.8. Permit: PP_LL_permit.



Tree ID:43. *Allocasuarina verticillata* (Drooping She-oak), Semi-mature Indigenous (Planted).
DBH: 20,16,9cm. HxW (m): 6 x 5. Health: Fair. Structure: Fair to Poor. Arb. Rating: Mod.C. Partly suppressed - crown bias, east.. TPZ (rad. m): 3.1. SRZ (rad. m): 2.2. Permit: PP_Undersize.



Tree ID:44. *Allocasuarina verticillata* (Drooping She-oak), Semi-mature Indigenous (Planted).
DBH: 23cm. HxW (m): 5 x 5. Health: Good. Structure: Fair. Arb. Rating: Mod.B. . TPZ (rad. m): 2.8. SRZ (rad. m): 1.8. Permit: PP_Undersize.



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Tree ID:45. *Allocasuarina verticillata* (Drooping She-oak), Semi-mature Indigenous (Planted).
DBH: 16cm. HxW (m): 4 x 3. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. Partly suppressed - crown bias, east.. TPZ (rad. m): 2. SRZ (rad. m): 1.6. Permit: PP_Undersize.



Tree ID:46. *Allocasuarina verticillata* (Drooping She-oak), Semi-mature Indigenous (Planted).
DBH: 20cm. HxW (m): 5 x 6. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. . TPZ (rad. m): 2.4. SRZ (rad. m): 1.8. Permit: PP_Undersize.



Tree ID:47. *Allocasuarina verticillata* (Drooping She-oak), Early-mature Indigenous (Planted).
DBH: 24cm. HxW (m): 6 x 6. Health: Good. Structure: Fair. Arb. Rating: Mod.B. . TPZ (rad. m): 2.9. SRZ (rad. m): 1.9. Permit: PP_Undersize.



Tree ID:48. *Lagunaria patersonia* (Norfolk Island Hibiscus), Early-mature Australian native.
DBH: 51cm. HxW (m): 11 x 9. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. . TPZ (rad. m): 6.1. SRZ (rad. m): 2.7. Permit: PP_LL_permit.



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Tree ID:49. *Lagunaria patersonia* (Norfolk Island Hibiscus), Maturing Australian native.
DBH: 54cm. HxW (m): 9 x 9. Health: Fair. Structure: Fair. Arb. Rating: Mod.A. . TPZ (rad. m): 6.5. SRZ (rad. m): 2.7. Permit: PP_LL_permit.



Tree ID:51. *Corynocarpus laevigatus* (Karaka), Maturing Exotic evergreen.
DBH: 22,20,17,16cm. HxW (m): 4 x 5. Health: Fair. Structure: Fair to Poor. Arb. Rating: Mod.B. . TPZ (rad. m): 4.5. SRZ (rad. m): 2.6. Permit: PP_LL_permit.



Tree ID:50. *Lagunaria patersonia* (Norfolk Island Hibiscus), Maturing Australian native.
DBH: 29,28,25,21,20cm. HxW (m): 9 x 10. Health: Fair. Structure: Fair to Poor. Arb. Rating: Mod.B. Multi-stemmed.. TPZ (rad. m): 6.7. SRZ (rad. m): 2.8. Permit: PP_LL_permit.



Tree ID:52. *Lagunaria patersonia* (Norfolk Island Hibiscus), Maturing Australian native.
DBH: 72 @1.0mcm. HxW (m): 10 x 10. Health: Fair. Structure: Fair. Arb. Rating: Mod.A. . TPZ (rad. m): 8.6. SRZ (rad. m): 2.9. Permit: PP_LL_permit.



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Tree ID:53. *Callitris rhomboidea* (Port Jackson Pine), Young Australian conifer.
DBH: 2cm. HxW (m): 2 x 1. Health: Fair to Poor. Structure: Fair. Arb. Rating: Mod.C. Minor dieback.. TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: PP_Undersize.



Tree ID:54. *Calodendrum capense* (Cape Chestnut), Early-mature Exotic evergreen.
DBH: 14cm. HxW (m): 4 x 4. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. Reduced foliage density.. TPZ (rad. m): 2. SRZ (rad. m): 1.6. Permit: PP_Undersize.



Tree ID:55. *Ficus rubiginosa* (Port Jackson Fig), Maturing Australian native.
DBH: 107cm. HxW (m): 13 x 20. Health: Good. Structure: Fair. Arb. Rating: High. . TPZ (rad. m): 12.8. SRZ (rad. m): 3.4. Permit: PP_LL_permit.



Tree ID:56. *Lagunaria patersonia* (Norfolk Island Hibiscus), Maturing Australian native.
DBH: 87 @1.0mcm. HxW (m): 10 x 11. Health: Fair. Structure: Fair. Arb. Rating: Mod.A. . TPZ (rad. m): 10.4. SRZ (rad. m): 3.2. Permit: PP_LL_permit.



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Tree ID:57. *Lagunaria patersonia* (Norfolk Island Hibiscus), Early-mature Australian native.
DBH: 37cm. HxW (m): 7 x 8. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. . TPZ (rad. m): 4.4. SRZ (rad. m): 2.3. Permit: PP_Undersize.



Tree ID:58. *Lagunaria patersonia* (Norfolk Island Hibiscus), Maturing Australian native.
DBH: 68 @1.0mcm. HxW (m): 10 x 8. Health: Fair. Structure: Fair. Arb. Rating: Mod.A. . TPZ (rad. m): 8.2. SRZ (rad. m): 2.8. Permit: PP_LL_permit.



Tree ID:59. *Ligustrum lucidum 'Tricolour'* (Tricolour Privet), Maturing Exotic evergreen.
DBH: 17,15,15,15,12cm. HxW (m): 4 x 5. Health: Fair to Poor. Structure: Fair to Poor. Arb. Rating: Low. 30-40% dieback & reverting to green.. TPZ (rad. m): 4. SRZ (rad. m): 2.2. Permit: PP_LL_permit.



Tree ID:60. *Lagunaria patersonia* (Norfolk Island Hibiscus), Early-mature Australian native.
DBH: 35,36,18cm. HxW (m): 10 x 7. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. Partly suppressed - crown bias, east.. TPZ (rad. m): 6.4. SRZ (rad. m): 2.6. Permit: PP_LL_permit.



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Tree ID:61. *Ficus rubiginosa* (Port Jackson Fig), Maturing Australian native.
DBH: 113@1.0mcm. HxW (m): 15 x 25. Health: Good. Structure: Fair. Arb. Rating: High. . TPZ (rad. m): 13.6. SRZ (rad. m): 3.5. Permit: PP_LL_permit.



Tree ID:62. *Lagunaria patersonia* (Norfolk Island Hibiscus), Early-mature Australian native.
DBH: 43@1.2mcm. HxW (m): 7 x 6. Health: Fair. Structure: Fair to Poor. Arb. Rating: Mod.B. Past powerline clearance.. TPZ (rad. m): 5.2. SRZ (rad. m): 2.4. Permit: PP_Undersize.



Tree ID:63. *Melaleuca styphelioides* (Prickly-leaved Paperbark), Semi-mature Australian native.
DBH: 20,18cm. HxW (m): 5 x 4. Health: Fair. Structure: Fair to Poor. Arb. Rating: Low. Partly suppressed - crown bias west.. TPZ (rad. m): 3.2. SRZ (rad. m): 2.1. Permit: PP_Undersize.



Tree ID:64. *Eucalyptus botryoides* (Southern Mahogany), Maturing Victorian native.
DBH: 109cm. HxW (m): 25 x 19. Health: Fair. Structure: Fair. Arb. Rating: Mod.A. . TPZ (rad. m): 13.1. SRZ (rad. m): 3.7. Permit: PP_LL_permit.



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Tree ID:65. *Melaleuca styphelioides* (Prickly-leaved Paperbark), Early-mature Australian native.
DBH: 43,35cm. HxW (m): 7 x 9. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. Northeast.. TPZ (rad. m): 6.7. SRZ (rad. m): 2.6. Permit: PP_LL_permit.



Tree ID:66. *Melaleuca styphelioides* (Prickly-leaved Paperbark), Early-mature Australian native.
DBH: 49,30cm. HxW (m): 7 x 9. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. . TPZ (rad. m): 6.9. SRZ (rad. m): 2.7. Permit: PP_LL_permit.



Tree ID:67. *Grevillea robusta* (Silky Oak), Early-mature Australian native.
DBH: 28cm. HxW (m): 8 x 7. Health: Fair to Poor. Structure: Fair. Arb. Rating: Mod.B. . TPZ (rad. m): 3.4. SRZ (rad. m): 2.1. Permit: PP_Undersize.



Tree ID:68. *Corymbia ficifolia* (Red-flowering Gum), Early-mature Australian native.
DBH: 24cm. HxW (m): 6 x 5. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. Basal wound to SW likely from mowing.. TPZ (rad. m): 2.9. SRZ (rad. m): 2. Permit: PP_Undersize.



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Tree ID:69. *Cupressus macrocarpa 'Goldcrest'* (Golden Monterey Cypress), Maturing Exotic conifer.
DBH: 60,51,44,37cm. HxW (m): 13 x 13. Health: Fair. Structure: Fair to Poor. Arb. Rating: Mod.B. Past failures, one stem reduced.. TPZ (rad. m): 11.7. SRZ (rad. m): 3.3. Permit: PP_LL_permit.



Tree ID:70. *Melaleuca styphelioides* (Prickly-leaved Paperbark), Maturing Australian native.
DBH: 44,30,22cm. HxW (m): 8 x 10. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. Reduced foliage density.. TPZ (rad. m): 6.9. SRZ (rad. m): 3.1. Permit: PP_LL_permit.



Tree ID:71. *Melaleuca styphelioides* (Prickly-leaved Paperbark), Maturing Australian native.
DBH: 41,38cm. HxW (m): 7 x 9. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. . TPZ (rad. m): 6.7. SRZ (rad. m): 2.5. Permit: PP_LL_permit.



Tree ID:72. *Melaleuca styphelioides* (Prickly-leaved Paperbark), Maturing Australian native.
DBH: 38,34,33cm. HxW (m): 9 x 11. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. . TPZ (rad. m): 7.3. SRZ (rad. m): 2.8. Permit: PP_LL_permit.



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Tree ID:73. *Brachychiton acerifolius* (Illawarra Flame Tree), Semi-mature Australian native.
DBH: 18cm. HxW (m): 4 x 4. Health: Good. Structure: Fair. Arb. Rating: Mod.B. . TPZ (rad. m): 2.2. SRZ (rad. m): 1.7. Permit: PP_Undersize.



Tree ID:74. *Ficus macrophylla* (Moreton Bay Fig), Semi-mature Australian native.
DBH: 11cm. HxW (m): 4 x 2. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. . TPZ (rad. m): 2. SRZ (rad. m): 1.6. Permit: PP_Undersize.



Tree ID:75. *Callitris rhomboidea* (Port Jackson Pine), Young Australian conifer.
DBH: 6cm. HxW (m): 3 x 1. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. . TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: PP_Undersize.



Tree ID:76. *Callitris rhomboidea* (Port Jackson Pine), Young Australian conifer.
DBH: 6cm. HxW (m): 2 x 1. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. . TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: PP_Undersize.



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Tree ID:77. *Callitris rhomboidea* (Port Jackson Pine), Young Australian conifer.
DBH: 3cm. HxW (m): 2 x 1. Health: Fair to Poor. Structure: Fair. Arb. Rating: Mod.C. Minor dieback.. TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: PP_Undersize.



Tree ID:78. *Lagunaria patersonia* (Norfolk Island Hibiscus), Maturing Australian native.
DBH: 53cm. HxW (m): 9 x 10. Health: Good. Structure: Fair. Arb. Rating: Mod.A. . TPZ (rad. m): 6.4. SRZ (rad. m): 2.8. Permit: PP_LL_permit.



Tree ID:79. *Agonis flexuosa* (Willow Myrtle), Young Australian native.
DBH: 2cm. HxW (m): 2 x 1. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. . TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: PP_Undersize.



Tree ID:80. *Cotoneaster sp.* (Cotoneaster), Maturing Exotic evergreen.
DBH: 23,22,20,18,16cm. HxW (m): 5 x 8. Health: Fair to Poor. Structure: Fair to Poor. Arb. Rating: Low. Minor dieback, woody weed sp. TPZ (rad. m): 5.4. SRZ (rad. m): 3. Permit: PP_LL_permit.



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Tree ID:81. *Corynocarpus laevigatus* (Karaka), Maturing Exotic evergreen.
DBH: 20,18,16,16,12cm. HxW (m): 5 x 6. Health: Fair to Poor. Structure: Fair to Poor. Arb. Rating: Mod.C. Minor dieback.. TPZ (rad. m): 4.5. SRZ (rad. m): 2.8. Permit: PP_LL_permit.



Tree ID:82. *Lagunaria patersonia* (Norfolk Island Hibiscus), Early-mature Australian native.
DBH: 37cm. HxW (m): 9 x 8. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. . TPZ (rad. m): 4.4. SRZ (rad. m): 2.3. Permit: PP_Undersize.



Tree ID:83. *Ficus carica* (Common Fig), Semi-mature Exotic deciduous.
DBH: 10,8,8cm. HxW (m): 3 x 4. Health: Fair to Poor. Structure: Fair to Poor. Arb. Rating: Low. Growing through fence & against building.. TPZ (rad. m): 2. SRZ (rad. m): 1.8. Permit: PP_Undersize.



Tree ID:84. *Cordyline australis* (Cabbage Tree), Early-mature Exotic evergreen.
DBH: 20,20 (est.)cm. HxW (m): 4 x 3. Health: Fair to Poor. Structure: Poor. Arb. Rating: Low. Ivy on trunk.. TPZ (rad. m): 3.4. SRZ (rad. m): 2.1. Permit: PP_Undersize.



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Tree ID:85. *Araucaria heterophylla* (Norfolk Island Pine), Early-mature Australian conifer.
DBH: 44cm. HxW (m): 16 x 8. Health: Fair to Poor. Structure: Fair. Arb. Rating: Mod.C. Reduced foliage density.. TPZ (rad. m): 5.3. SRZ (rad. m): 2.5. Permit: PP_Undersize.



Tree ID:87. *Lagunaria patersonia* (Norfolk Island Hibiscus), Maturing Australian native.
DBH: 47,39,27cm. HxW (m): 11 x 10. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. Close to entrance path.. TPZ (rad. m): 8. SRZ (rad. m): 2.9. Permit: PP_LL_permit.



Tree ID:86. *Ulmus parvifolia* (Chinese Elm), Maturing Exotic deciduous.
DBH: 40,27cm. HxW (m): 11 x 16. Health: Fair. Structure: Fair. Arb. Rating: Mod.A. Over-extended limbs developing. & down to ground level.. TPZ (rad. m): 5.8. SRZ (rad. m): 2.5. Permit: PP_LL_permit.



Tree ID:88. *Corynocarpus laevigatus* (Karaka), Maturing Exotic evergreen.
DBH: 15,15,14,13 (multi-stem)cm. HxW (m): 6 x 6. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. . TPZ (rad. m): 3.4. SRZ (rad. m): 2.5. Permit: PP_LL_permit.



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Tree ID:89. *Quercus ilex* (Holly Oak), Early-mature Exotic evergreen.
DBH: 24,17 (est.)cm. HxW (m): 5 x 7. Health: Fair. Structure: Fair to Poor. Arb. Rating: Mod.B. Hedged along path.. TPZ (rad. m): 3.5. SRZ (rad. m): 2.2. Permit: PP_Undersize.



Tree ID:90. *Afrocarpus falcata* (Yellow-wood), Maturing Exotic conifer.
DBH: 40cm. HxW (m): 11 x 8. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. Trunk leaning, east.. TPZ (rad. m): 4.8. SRZ (rad. m): 2.3. Permit: PP_Undersize.



Tree ID:91. *Quercus ilex* (Holly Oak), Early-mature Exotic evergreen.
DBH: 27 (est.)cm. HxW (m): 6 x 5. Health: Fair. Structure: Fair to Poor. Arb. Rating: Low. Neighbour's tree, partly suppressed - crown bias, nth. Associated w tree in park to east of path.. TPZ (rad. m): 3.2. SRZ (rad. m): 2.1. Permit: PP_Undersize.



Tree ID:92. *Pittosporum undulatum* (Sweet Pittosporum), Semi-mature Victorian native.
DBH: 13,9,6cm. HxW (m): 5 x 4. Health: Fair. Structure: Fair to Poor. Arb. Rating: Low. Neighbour's tree, woody weed sp Multi-stemmed Cotoneaster to Sth.. TPZ (rad. m): 2. SRZ (rad. m): 1.7. Permit: PP_Undersize.



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Tree ID:93. *Quercus ilex* (Holly Oak), Early-mature Exotic evergreen.
DBH: 32, 30, 21cm. HxW (m): 8 x 8. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. Cluster of 3 trees at 1.5m spacing.. TPZ (rad. m): 5.8. SRZ (rad. m): 2.2. Permit: PP_LL_permit.



Tree ID:94. *Ficus rubiginosa* (Port Jackson Fig), Maturing Australian native.
DBH: 94 @1.0mcm. HxW (m): 13 x 19. Health: Fair. Structure: Fair. Arb. Rating: High. . TPZ (rad. m): 11.3. SRZ (rad. m): 3.2. Permit: PP_LL_permit.



Tree ID:95. *Melaleuca styphelioides* (Prickly-leaved Paperbark), Maturing Australian native.
DBH: 52cm. HxW (m): 9 x 9. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. . TPZ (rad. m): 6.2. SRZ (rad. m): 2.6. Permit: PP_LL_permit.



Tree ID:96. *Brachychiton acerifolius* (Illawarra Flame Tree), Semi-mature Australian native.
DBH: 27cm. HxW (m): 5 x 6. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. . TPZ (rad. m): 3.2. SRZ (rad. m): 2.1. Permit: PP_Undersize.



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Tree ID:97. *Melaleuca styphelioides* (Prickly-leaved Paperbark), Early-mature Australian native.
DBH: 49,31,28cm. HxW (m): 7 x 8. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. . TPZ (rad. m): 7.7. SRZ (rad. m): 2.8. Permit: PP_LL_permit.



Tree ID:99. *Melaleuca styphelioides* (Prickly-leaved Paperbark), Early-mature Australian native.
DBH: 35,25,18cm. HxW (m): 7 x 7. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. . TPZ (rad. m): 5.6. SRZ (rad. m): 2.5. Permit: PP_LL_permit.



Tree ID:98. *Pittosporum undulatum* (Sweet Pittosporum), Early-mature Victorian native.
DBH: 26,20,18cm. HxW (m): 7 x 7. Health: Fair to Poor. Structure: Fair to Poor. Arb. Rating: Low. Dieback, woody weed sp. TPZ (rad. m): 4.5. SRZ (rad. m): 2.6. Permit: PP_LL_permit.



Tree ID:100. *Lagunaria patersonia* (Norfolk Island Hibiscus), Maturing Australian native.
DBH: 69cm. HxW (m): 10 x 10. Health: Fair. Structure: Fair. Arb. Rating: Mod.A. . TPZ (rad. m): 8.3. SRZ (rad. m): 2.9. Permit: PP_LL_permit.



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Tree ID:101. *Ligustrum lucidum* (Shining Privet), Semi-mature Exotic evergreen.
DBH: 15cm. HxW (m): 6 x 4. Health: Fair. Structure: Fair to Poor. Arb. Rating: Low. Woody weed sp. TPZ (rad. m): 2. SRZ (rad. m): 1.7. Permit: PP_Undersize.



Tree ID:102. *Ligustrum lucidum* (Shining Privet), Semi-mature Exotic evergreen.
DBH: 10,8cm. HxW (m): 6 x 5. Health: Fair. Structure: Fair to Poor. Arb. Rating: Low. Woody weed sp. TPZ (rad. m): 2. SRZ (rad. m): 1.6. Permit: PP_Undersize.



Tree ID:103. *Ligustrum lucidum* (Shining Privet), Early-mature Exotic evergreen.
DBH: 15,14,11cm. HxW (m): 6 x 5. Health: Fair. Structure: Fair to Poor. Arb. Rating: Low. Woody weed sp. TPZ (rad. m): 2.8. SRZ (rad. m): 2. Permit: PP_Undersize.



Tree ID:104. *Lagunaria patersonia* (Norfolk Island Hibiscus), Maturing Australian native.
DBH: 80 (est.)cm. HxW (m): 11 x 10. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. Neighbour's tree.. TPZ (rad. m): 9.6. SRZ (rad. m): 3.1. Permit: PP_LL_permit.



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Tree ID:105. *Lagunaria patersonia* (Norfolk Island Hibiscus), Maturing Australian native.
DBH: 75 (est.)cm. HxW (m): 10 x 10. Health: Fair to Poor. Structure: Fair. Arb. Rating: Mod.B. Neighbour's tree, reduced foliage density.. TPZ (rad. m): 9. SRZ (rad. m): 3. Permit: PP_LL_permit.



Tree ID:106. *Pittosporum undulatum* (Sweet Pittosporum), Semi-mature Victorian native.
DBH: 22,16,15,14,10cm. HxW (m): 5 x 8. Health: Fair to Poor. Structure: Fair to Poor. Arb. Rating: Low. Neighbour's tree, woody weed sp. TPZ (rad. m): 4.3. SRZ (rad. m): 2.6. Permit: PP_LL_permit.



Tree ID:107. *Lagunaria patersonia* (Norfolk Island Hibiscus), Maturing Australian native.
DBH: 68cm. HxW (m): 10 x 10. Health: Good. Structure: Fair. Arb. Rating: Mod.B. Neighbour's tree.. TPZ (rad. m): 8.2. SRZ (rad. m): 2.9. Permit: PP_LL_permit.



Tree ID:108. *Coprosma repens* (Mirror Bush), Maturing Exotic evergreen.
DBH: 2,2,2,2 (multi-stem)cm. HxW (m): 2 x 2. Health: Fair. Structure: Poor. Arb. Rating: Very Low. Neighbour's tree, woody weed sp. TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: PP_Undersize.



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Tree ID:109. *Lagunaria patersonia* (Norfolk Island Hibiscus), Maturing Australian native.
DBH: 71 (est.)cm. HxW (m): 12 x 11. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. Neighbour's tree, woody weed sp. TPZ (rad. m): 8.5. SRZ (rad. m): 3. Permit: PP_LL_permit.



Tree ID:111. *Lagunaria patersonia* (Norfolk Island Hibiscus), Early-mature Australian native.
DBH: 23 (est.)cm. HxW (m): 9 x 7. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. Neighbour's tree. In Croquet club.. TPZ (rad. m): 2.8. SRZ (rad. m): 1.9. Permit: PP_Undersize.



Tree ID:110. *Allocasuarina verticillata* (Drooping She-oak), Semi-mature Indigenous (Planted).
DBH: 17 @1.0mcm. HxW (m): 4 x 4. Health: Good. Structure: Fair. Arb. Rating: Mod.B. . TPZ (rad. m): 2. SRZ (rad. m): 1.6. Permit: PP_Undersize.



Tree ID:113. *Fraxinus ornus* (Manna Ash), Maturing Exotic deciduous.
DBH: 50cm. HxW (m): 12 x 11. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. Graft at base.. TPZ (rad. m): 6. SRZ (rad. m): 2.6. Permit: PP_LL_permit.



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Tree ID:114. *Allocasuarina verticillata* (Drooping She-oak), Early-mature Indigenous (Planted).
DBH: 32cm. HxW (m): 8 x 7. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. Weed infested. W coprosma at base.. TPZ (rad. m): 3.8. SRZ (rad. m): 2.2. Permit: PP_Undersize.



Tree ID:115. *Leptospermum laevigatum* (Coast Tea-tree), Maturing Indigenous (Planted).
DBH: 25cm. HxW (m): 3 x 6. Health: Fair. Structure: Poor. Arb. Rating: Low. Collapsed-still growing. Along ground.. TPZ (rad. m): 3. SRZ (rad. m): 2.6. Permit: PP_Undersize.



Tree ID:116. *Ligustrum lucidum* (Shining Privet), Early-mature Exotic evergreen.
DBH: 10,9,8,7cm. HxW (m): 3 x 4. Health: Fair to Poor. Structure: Fair to Poor. Arb. Rating: Low. Dieback, woody weed sp. TPZ (rad. m): 2. SRZ (rad. m): 1.8. Permit: PP_Undersize.



Tree ID:117. *Lagunaria patersonia* (Norfolk Island Hibiscus), Early-mature Australian native.
DBH: 25cm. HxW (m): 7 x 5. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. In Croquet club.. TPZ (rad. m): 3. SRZ (rad. m): 1.9. Permit: PP_Undersize.



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Tree ID:118. *Pittosporum undulatum* (Sweet Pittosporum), Maturing Victorian native.
DBH: 32cm. HxW (m): 8 x 5. Health: Fair. Structure: Fair to Poor. Arb. Rating: Low. Woody weed sp In Croquet club.. TPZ (rad. m): 3.8. SRZ (rad. m): 2.1. Permit: PP_Undersize.



Tree ID:120. *Pittosporum undulatum* (Sweet Pittosporum), Maturing Victorian native.
DBH: 23,22,18 (est.)cm. HxW (m): 8 x 7. Health: Fair. Structure: Fair to Poor. Arb. Rating: Low. Woody weed sp In Croquet club.. TPZ (rad. m): 4.4. SRZ (rad. m): 2.4. Permit: PP_LL_permit.



Tree ID:119. *Cotoneaster sp.* (Cotoneaster), Maturing Exotic evergreen.
DBH: 18,11,9 (est.)cm. HxW (m): 5 x 5. Health: Fair. Structure: Fair to Poor. Arb. Rating: Low. Woody weed sp In Croquet club.. TPZ (rad. m): 2.5. SRZ (rad. m): 2.3. Permit: PP_Undersize.



Tree ID:121. *Lagunaria patersonia* (Norfolk Island Hibiscus), Maturing Australian native.
DBH: 61 @1.0mcm. HxW (m): 10 x 11. Health: Good. Structure: Fair. Arb. Rating: Mod.A. . TPZ (rad. m): 7.3. SRZ (rad. m): 2.8. Permit: PP_LL_permit.



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Tree ID:122. *Lagunaria patersonia* (Norfolk Island Hibiscus), Maturing Australian native.
DBH: 27cm. HxW (m): 7 x 5. Health: Fair to Poor. Structure: Fair. Arb. Rating: Mod.C. Reduced foliage density.. TPZ (rad. m): 3.2. SRZ (rad. m): 2.1. Permit: PP_Undersize.



Tree ID:123. *Allocasuarina verticillata* (Drooping She-oak), Early-mature Indigenous (Planted).
DBH: 15cm. HxW (m): 5 x 6. Health: Good. Structure: Fair to Poor. Arb. Rating: Mod.C. Young Coast Banksias planted to SW. TPZ (rad. m): 2. SRZ (rad. m): 1.6. Permit: PP_Undersize.



Tree ID:124. *Banksia integrifolia* (Coast Banksia), Young Indigenous (Planted).
DBH: 8cm. HxW (m): 3 x 1. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. . TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: PP_Undersize.



Tree ID:125. *Lagunaria patersonia* (Norfolk Island Hibiscus), Maturing Australian native.
DBH: 67cm. HxW (m): 10 x 10. Health: Good. Structure: Fair. Arb. Rating: Mod.A. . TPZ (rad. m): 8. SRZ (rad. m): 2.8. Permit: PP_LL_permit.



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Tree ID:126. *Allocasuarina verticillata* (Drooping She-oak), Semi-mature Indigenous (Planted).
DBH: 15cm. HxW (m): 4 x 4. Health: Good. Structure: Fair to Poor. Arb. Rating: Mod.B. . TPZ (rad. m): 2. SRZ (rad. m): 1.6. Permit: PP_Undersize.



Tree ID:127. *Allocasuarina verticillata* (Drooping She-oak), Early-mature Indigenous (Planted).
DBH: 16cm. HxW (m): 6 x 6. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. Young Coast Banksias planted to SE & SW.. TPZ (rad. m): 2. SRZ (rad. m): 1.6. Permit: PP_Undersize.



Tree ID:128. *Lagunaria patersonia* (Norfolk Island Hibiscus), Maturing Australian native.
DBH: 42,32,17cm. HxW (m): 10 x 7. Health: Good. Structure: Fair to Poor. Arb. Rating: Mod.B. Incipient decay, past stem failure, trunk wounds, ne.. TPZ (rad. m): 6.7. SRZ (rad. m): 2.9. Permit: PP_LL_permit.



Tree ID:129. *Allocasuarina verticillata* (Drooping She-oak), Early-mature Indigenous (Planted).
DBH: 17cm. HxW (m): 4 x 5. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. Trunk kink, Young Coast Banksias planted to SE & SW.. TPZ (rad. m): 2. SRZ (rad. m): 1.6. Permit: PP_Undersize.



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Tree ID:130. *Allocasuarina verticillata* (Drooping She-oak), Early-mature Indigenous (Planted).
DBH: 17cm. HxW (m): 5 x 5. Health: Fair. Structure: Fair to Poor. Arb. Rating: Mod.C. Crossing branches. Young Coast Banksias planted to SE & SW.. TPZ (rad. m): 2. SRZ (rad. m): 1.7. Permit: PP_Undersize.



Tree ID:131. *Allocasuarina verticillata* (Drooping She-oak), Early-mature Indigenous (Planted).
DBH: 17cm. HxW (m): 4 x 5. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. Young Coast Banksias planted to SE & SW.. TPZ (rad. m): 2. SRZ (rad. m): 1.7. Permit: PP_Undersize.



Tree ID:132. *Allocasuarina verticillata* (Drooping She-oak), Early-mature Indigenous (Planted).
DBH: 16cm. HxW (m): 3 x 5. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. Young Coast Banksias planted to SE.. TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: PP_Undersize.



Tree ID:133. *Allocasuarina verticillata* (Drooping She-oak), Early-mature Indigenous (Planted).
DBH: 22 @1.0mcm. HxW (m): 5 x 6. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. Young Coast Banksias planted to SE & SW.. TPZ (rad. m): 2.6. SRZ (rad. m): 1.8. Permit: PP_Undersize.



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Tree ID:134. *Allocasuarina verticillata* (Drooping She-oak), Semi-mature Indigenous (Planted).
DBH: 15,14cm. HxW (m): 4 x 5. Health: Good. Structure: Fair. Arb. Rating: Mod.B. Young Coast Banksias planted to SE & SW.. TPZ (rad. m): 2.5. SRZ (rad. m): 1.7. Permit: PP_Undersize.



Tree ID:135. *Lagunaria patersonia* (Norfolk Island Hibiscus), Early-mature Australian native.
DBH: 34cm. HxW (m): 9 x 7. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. . TPZ (rad. m): 4.1. SRZ (rad. m): 2.3. Permit: BS_Undersize.



Tree ID:136. *Banksia integrifolia* (Coast Banksia), Semi-mature Indigenous (Planted).
DBH: 13cm. HxW (m): 3 x 3. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. . TPZ (rad. m): 2. SRZ (rad. m): 1.6. Permit: PP_Undersize.



Tree ID:137. *Banksia integrifolia* (Coast Banksia), Semi-mature Indigenous (Planted).
DBH: 11cm. HxW (m): 3 x 2. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. . TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: PP_Undersize.



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Tree ID:138. *Quercus palustris* (Pin Oak), Early-mature Exotic deciduous.
DBH: 18cm. HxW (m): 6 x 6. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. . TPZ (rad. m): 2.2. SRZ (rad. m): 1.8. Permit: BS_Undersize.



Tree ID:139. *Banksia integrifolia* (Coast Banksia), Semi-mature Indigenous (Planted).
DBH: 14cm. HxW (m): 4 x 3. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. . TPZ (rad. m): 2. SRZ (rad. m): 1.6. Permit: PP_Undersize.



Tree ID:140. *Lagunaria patersonia* (Norfolk Island Hibiscus), Early-mature Australian native.
DBH: 33cm. HxW (m): 7 x 5. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. . TPZ (rad. m): 4. SRZ (rad. m): 2.3. Permit: BS_Undersize.



Tree ID:141. *Banksia integrifolia* (Coast Banksia), Semi-mature Indigenous (Planted).
DBH: 14 @1.0mcm. HxW (m): 4 x 3. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. . TPZ (rad. m): 2. SRZ (rad. m): 1.6. Permit: PP_Undersize.



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Tree ID:142. *Allocasuarina verticillata* (Drooping She-oak), Young Indigenous (Planted).
DBH: 3cm. HxW (m): 1 x 1. Health: Fair. Structure: Fair to Poor. Arb. Rating: Low. Lopped.. TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: BS_Undersize.



Tree ID:143. *Allocasuarina verticillata* (Drooping She-oak), Early-mature Indigenous (Planted).
DBH: 16cm. HxW (m): 4 x 4. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. . TPZ (rad. m): 2. SRZ (rad. m): 1.6. Permit: PP_Undersize.



Tree ID:144. *Allocasuarina verticillata* (Drooping She-oak), Young Indigenous (Planted).
DBH: 3cm. HxW (m): 2 x 1. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. . TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: BS_Undersize.



Tree ID:145. *Allocasuarina verticillata* (Drooping She-oak), Semi-mature Indigenous (Planted).
DBH: 16cm. HxW (m): 5 x 5. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. Young Coast Banksias planted to SW.. TPZ (rad. m): 2. SRZ (rad. m): 1.7. Permit: PP_Undersize.



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Tree ID:146. *Allocasuarina verticillata* (Drooping She-oak), Semi-mature Indigenous (Planted).
DBH: 12cm. HxW (m): 2 x 2. Health: Fair. Structure: Fair to Poor. Arb. Rating: Mod.C. Trunk leaning, se. Stunted.. TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: PP_Undersize.



Tree ID:147. *Platanus Xacerifolia* (London Plane), Young Exotic deciduous.
DBH: 1cm. HxW (m): 2 x 1. Health: Fair to Poor. Structure: Fair. Arb. Rating: Mod.C. . TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: BS_Undersize.



Tree ID:148. *Araucaria heterophylla* (Norfolk Island Pine), Early-mature Australian conifer.
DBH: 31cm. HxW (m): 11 x 7. Health: Good. Structure: Fair. Arb. Rating: Mod.B. . TPZ (rad. m): 3.7. SRZ (rad. m): 2.2. Permit: BS_Undersize.



Tree ID:149. *Pyrus calleryana* (Callery's Pear), Early-mature Exotic deciduous.
DBH: 30 (est.)cm. HxW (m): 7 x 10. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. Neighbour's tree. In raised bed.. TPZ (rad. m): 3.6. SRZ (rad. m): 2.1. Permit: BS_Undersize.



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Tree ID:150. *Gleditsia triacanthos* (Honey Locust), Early-mature Exotic deciduous.
DBH: 15cm. HxW (m): 4 x 4. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. . TPZ (rad. m): 2. SRZ (rad. m): 1.6. Permit: BS_Undersize.



Tree ID:151. *Gleditsia triacanthos* (Honey Locust), Early-mature Exotic deciduous.
DBH: 17cm. HxW (m): 5 x 5. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. . TPZ (rad. m): 2. SRZ (rad. m): 1.6. Permit: BS_Undersize.



Tree ID:152. *Gleditsia triacanthos* (Honey Locust), Early-mature Exotic deciduous.
DBH: 17,13cm. HxW (m): 5 x 6. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. . TPZ (rad. m): 2.6. SRZ (rad. m): 1.6. Permit: BS_Undersize.



Tree ID:153. *Cupressus sempervirens 'Stricta'* (Pencil Pine), Maturing Exotic conifer.
DBH: 60 (est.)cm. HxW (m): 16 x 3. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. . TPZ (rad. m): 7.2. SRZ (rad. m): 2.6. Permit: BS_LL_permit.



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Tree ID:154. *Eucalyptus sideroxylon* (Red Ironbark), Early-mature Australian native.
DBH: 58cm. HxW (m): 14 x 13. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. Possum grazing, reduced foliage density.. TPZ (rad. m): 7. SRZ (rad. m): 2.8. Permit: BS_LL_permit.



Tree ID:155. *Eucalyptus botryoides* (Southern Mahogany), Maturing Victorian native.
DBH: 86cm. HxW (m): 24 x 17. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. Habitat hollows, partly suppressed - crown bias, nth. Past clearance prune on Sth side.. TPZ (rad. m): 10.3. SRZ (rad. m): 3.2. Permit: BS_LL_permit.



Tree ID:156. *Acacia implexa* (Lightwood), Early-mature Indigenous (Planted).
DBH: 17,16cm. HxW (m): 7 x 7. Health: Fair. Structure: Fair to Poor. Arb. Rating: Mod.C. . TPZ (rad. m): 2.8. SRZ (rad. m): 2.1. Permit: BS_Undersize.



Tree ID:157. *Hoheria populnea* (Lacebark), Early-mature Exotic evergreen.
DBH: 25 (est.)cm. HxW (m): 6 x 6. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. Neighbour's tree.. TPZ (rad. m): 3. SRZ (rad. m): 2. Permit: BS_Undersize.



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Tree ID:158. *Grevillea sp.* (Grevillea), Early-mature Australian native.
DBH: 13 @<=0.5mcm. HxW (m): 2 x 4. Health: Fair. Structure: Fair to Poor. Arb. Rating: Mod.C. Collapsed-still growing. G longistyla cultivar.. TPZ (rad. m): 2. SRZ (rad. m): 1.6. Permit: BS_Undersize.



Tree ID:159. *Eucalyptus ovata* (Swamp Gum), Early-mature Indigenous (Planted).
DBH: 33,24cm. HxW (m): 12 x 10. Health: Fair. Structure: Fair to Poor. Arb. Rating: Mod.C. Trunk leaning, nw.. TPZ (rad. m): 4.9. SRZ (rad. m): 2.4. Permit: BS_LL_permit.



Tree ID:160. *Eucalyptus botryoides* (Southern Mahogany), Maturing Victorian native.
DBH: 88cm. HxW (m): 24 x 20. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. Over-extended limbs developing, nth.. TPZ (rad. m): 10.6. SRZ (rad. m): 3.2. Permit: BS_LL_permit.



Tree ID:161. *Corymbia maculata* (Spotted Gum), Early-mature Victorian native.
DBH: 35cm. HxW (m): 15 x 12. Health: Fair to Poor. Structure: Fair. Arb. Rating: Mod.B. Suppressed.. TPZ (rad. m): 4.2. SRZ (rad. m): 2.4. Permit: BS_Undersize.



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Tree ID:162. *Corymbia maculata* (Spotted Gum), Early-mature Victorian native.
DBH: 28cm. HxW (m): 13 x 7. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. . TPZ (rad. m): 3.4. SRZ (rad. m): 2.1. Permit: BS_Undersize.



Tree ID:163. *Corymbia maculata* (Spotted Gum), Early-mature Victorian native.
DBH: 38cm. HxW (m): 12 x 14. Health: Fair. Structure: Fair. Arb. Rating: Mod.A. . TPZ (rad. m): 4.6. SRZ (rad. m): 2.4. Permit: BS_Undersize.



Tree ID:164. *Acacia implexa* (Lightwood), Semi-mature Indigenous (Planted).
DBH: 9cm. HxW (m): 3 x 2. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. . TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: BS_Undersize.



Tree ID:165. *Corymbia citriodora* (Lemon-scented Gum), Early-mature Australian native.
DBH: 36cm. HxW (m): 13 x 10. Health: Fair to Poor. Structure: Fair. Arb. Rating: Mod.B. . TPZ (rad. m): 4.3. SRZ (rad. m): 2.3. Permit: BS_Undersize.



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Tree ID:166. *Eucalyptus camaldulensis* (River Red Gum), Semi-mature Indigenous (Planted).
DBH: 15cm. HxW (m): 4 x 4. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. . TPZ (rad. m): 2. SRZ (rad. m): 1.7. Permit: BS_Undersize.



Tree ID:168. *Eucalyptus camaldulensis* (River Red Gum), Early-mature Indigenous (Planted).
DBH: 31cm. HxW (m): 9 x 9. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. . TPZ (rad. m): 3.7. SRZ (rad. m): 2.3. Permit: BS_Undersize.



Tree ID:167. *Eucalyptus melliodora* (Yellow Box), Early-mature Indigenous (Planted).
DBH: 29,19cm. HxW (m): 11 x 8. Health: Fair. Structure: Fair to Poor. Arb. Rating: Mod.C. Included bark forks w compression flaring.
Reduce lesser co-dominant stem. TPZ (rad. m): 4.2. SRZ (rad. m): 2.2. Permit: BS_LL_permit.



Tree ID:169. *Eucalyptus melliodora* (Yellow Box), Early-mature Indigenous (Planted).
DBH: 52cm. HxW (m): 15 x 12. Health: Fair. Structure: Fair to Poor. Arb. Rating: Mod.B. Co-dominant stems w compression flaring.
Reduce lesser co-dominant stem. TPZ (rad. m): 6.2. SRZ (rad. m): 2.2. Permit: BS_LL_permit.



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Tree ID:170. *Eucalyptus leucoxylon 'Rosea'* (Pink-flowered Yellow Gum), Semi-mature Australian native.
DBH: 12cm. HxW (m): 5 x 4. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. . TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: BS_Undersize.



Tree ID:171. *Eucalyptus ovata* (Swamp Gum), Early-mature Indigenous (Planted).
DBH: 36cm. HxW (m): 9 x 9. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. Partly suppressed - crown bias, over-extended limbs developing, nth.. TPZ (rad. m): 4.3. SRZ (rad. m): 2.3. Permit: BS_Undersize.



Tree ID:172. *Allocasuarina verticillata* (Drooping She-oak), Early-mature Indigenous (Planted).
DBH: 19cm. HxW (m): 6 x 4. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. . TPZ (rad. m): 2.3. SRZ (rad. m): 1.8. Permit: BS_Undersize.



Tree ID:173. *Acacia implexa* (Lightwood), Early-mature Indigenous (Planted).
DBH: 23cm. HxW (m): 6 x 5. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. . TPZ (rad. m): 2.8. SRZ (rad. m): 1.9. Permit: BS_Undersize.



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Tree ID:174. *Bursaria spinosa* (Sweet Bursaria), Early-mature Indigenous (Planted).
DBH: 16,15,10cm. HxW (m): 5 x 6. Health: Fair. Structure: Fair to Poor. Arb. Rating: Mod.C. Vine infested. Remove vines. TPZ (rad. m): 2.9. SRZ (rad. m): 1.9. Permit: BS_Undersize.



Tree ID:175. *Myoporum insulare* (Boobialla), Semi-mature Indigenous (Planted).
DBH: 10,9,8cm. HxW (m): 2 x 5. Health: Fair. Structure: Fair to Poor. Arb. Rating: Mod.C. Sprawling shrub.. TPZ (rad. m): 2. SRZ (rad. m): 1.6. Permit: BS_Undersize.



Tree ID:176. *Acacia melanoxylon* (Blackwood), Semi-mature Indigenous (Planted).
DBH: 13cm. HxW (m): 5 x 4. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. . TPZ (rad. m): 2. SRZ (rad. m): 1.6. Permit: BS_Undersize.



Tree ID:177. *Bursaria spinosa* (Sweet Bursaria), Early-mature Indigenous (Planted).
DBH: 13,11,10cm. HxW (m): 5 x 6. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. . TPZ (rad. m): 2.4. SRZ (rad. m): 1.8. Permit: BS_Undersize.



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Tree ID:178. *Acacia melanoxylon* (Blackwood), Semi-mature Indigenous (Planted).
DBH: 12cm. HxW (m): 4 x 3. Health: Dead. Structure: Poor. Arb. Rating: Very Low. . TPZ (rad. m): 2. SRZ (rad. m): 1.6. Permit: BS_Undersize.



Tree ID:179. *Acacia implexa* (Lightwood), Maturing Indigenous (Planted).
DBH: 34cm. HxW (m): 10 x 7. Health: Fair. Structure: Fair to Poor. Arb. Rating: Mod.C. Peppercorn tree at Sth base.. TPZ (rad. m): 4.1. SRZ (rad. m): 2.3. Permit: BS_Undersize.



Tree ID:180. *Eucalyptus ovata* (Swamp Gum), Early-mature Indigenous (Planted).
DBH: 37cm. HxW (m): 8 x 8. Health: Fair to Poor. Structure: Fair to Poor. Arb. Rating: Mod.C. Minor dieback.. TPZ (rad. m): 4.4. SRZ (rad. m): 2.5. Permit: BS_Undersize.



Tree ID:181. *Bursaria spinosa* (Sweet Bursaria), Early-mature Indigenous (Planted).
DBH: 16,12,11cm. HxW (m): 5 x 6. Health: Good. Structure: Fair. Arb. Rating: Mod.B. Clipped for path clearance.. TPZ (rad. m): 2.7. SRZ (rad. m): 2.1. Permit: BS_Undersize.



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Tree ID:182. *Acacia implexa* (Lightwood), Early-mature Indigenous (Planted).
DBH: 20cm. HxW (m): 6 x 5. Health: Fair to Poor. Structure: Fair to Poor. Arb. Rating: Low. Canker/galls. Dieback assoc w fasciation.. TPZ (rad. m): 2.4. SRZ (rad. m): 1.8. Permit: BS_Undersize.



Tree ID:183. *Acacia implexa* (Lightwood), Early-mature Indigenous (Planted).
DBH: 14,8,7cm. HxW (m): 6 x 4. Health: Fair to Poor. Structure: Fair to Poor. Arb. Rating: Mod.C. Canker/galls, multi-stemmed, trunk leaning, west.. TPZ (rad. m): 2. SRZ (rad. m): 1.7. Permit: BS_Undersize.



Tree ID:184. *Acacia implexa* (Lightwood), Early-mature Indigenous (Planted).
DBH: 24,21cm. HxW (m): 8 x 6. Health: Fair to Poor. Structure: Fair to Poor. Arb. Rating: Low. Canker/galls. Dieback assoc w fasciation.. TPZ (rad. m): 3.8. SRZ (rad. m): 2.3. Permit: BS_Undersize.



Tree ID:185. *Melaleuca styphelioides* (Prickly-leaved Paperbark), Early-mature Australian native.
DBH: 16,13,10,10cm. HxW (m): 5 x 5. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. . TPZ (rad. m): 3. SRZ (rad. m): 2.1. Permit: BS_LL_permit.



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Tree ID:186. *Acacia implexa* (Lightwood), Early-mature Indigenous (Planted).
DBH: 16cm. HxW (m): 7 x 4. Health: Fair to Poor. Structure: Fair to Poor. Arb. Rating: Low. Canker/galls. Dieback assoc w fasciation.. TPZ (rad. m): 2. SRZ (rad. m): 1.8. Permit: BS_Undersize.



Tree ID:187. *Acacia implexa* (Lightwood), Maturing Indigenous (Planted).
DBH: 27cm. HxW (m): 8 x 7. Health: Poor. Structure: Fair to Poor. Arb. Rating: Low. Canker/galls, declining. Dieback assoc w fasciation.. TPZ (rad. m): 3.2. SRZ (rad. m): 2.1. Permit: BS_Undersize.



Tree ID:188. *Bursaria spinosa* (Sweet Bursaria), Early-mature Indigenous (Planted).
DBH: 13,12,11,9cm. HxW (m): 4 x 5. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. . TPZ (rad. m): 2.5. SRZ (rad. m): 2. Permit: BS_Undersize.



Tree ID:189. *Eucalyptus ovata* (Swamp Gum), Semi-mature Indigenous (Planted).
DBH: 16cm. HxW (m): 6 x 5. Health: Poor. Structure: Poor. Arb. Rating: Low. Main leader dead.. TPZ (rad. m): 2. SRZ (rad. m): 1.7. Permit: BS_Undersize.



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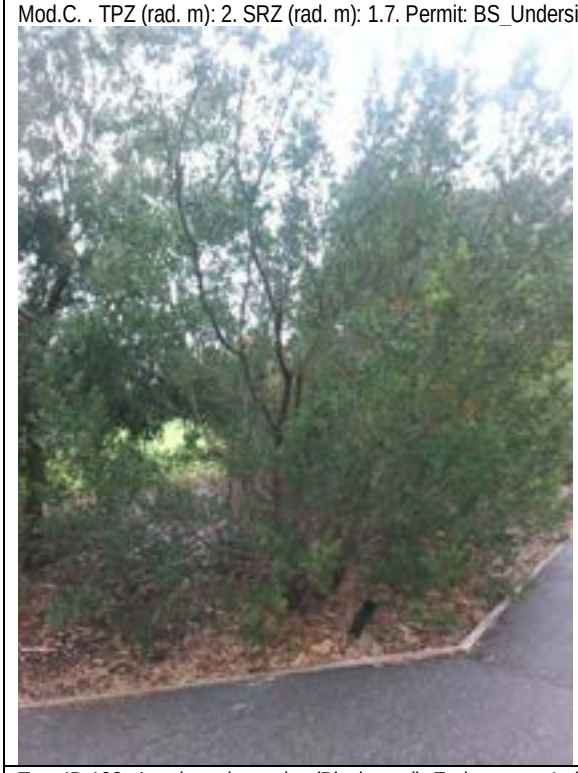
Tree ID:190. *Acacia implexa* (Lightwood), Early-mature Indigenous (Planted).
DBH: 18cm. HxW (m): 6 x 4. Health: Fair to Poor. Structure: Fair to Poor. Arb. Rating: Mod.C. Canker/galls.. TPZ (rad. m): 2.2. SRZ (rad. m): 1.8. Permit: BS_Undersize.



Tree ID:191. *Bursaria spinosa* (Sweet Bursaria), Early-mature Indigenous (Planted).
DBH: 9,8,8cm. HxW (m): 3 x 3. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. . TPZ (rad. m): 2. SRZ (rad. m): 1.6. Permit: BS_Undersize.



Tree ID:192. *Bursaria spinosa* (Sweet Bursaria), Early-mature Indigenous (Planted).
DBH: 8,7cm. HxW (m): 4 x 4. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. . TPZ (rad. m): 2. SRZ (rad. m): 1.7. Permit: BS_Undersize.



Tree ID:193. *Acacia melanoxylon* (Blackwood), Early-mature Indigenous (Planted).
DBH: 10,8,7cm. HxW (m): 4 x 4. Health: Fair. Structure: Fair to Poor. Arb. Rating: Mod.C. Multi-stemmed.. TPZ (rad. m): 2. SRZ (rad. m): 1.8. Permit: BS_Undersize.



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Tree ID:194. *Eucalyptus melliodora* (Yellow Box), Semi-mature Indigenous (Planted).
DBH: 16cm. HxW (m): 7 x 5. Health: Good. Structure: Fair. Arb. Rating: Mod.B. . TPZ (rad. m): 2. SRZ (rad. m): 1.6. Permit: BS_Undersize.



Tree ID:195. *Bursaria spinosa* (Sweet Bursaria), Early-mature Indigenous (Planted).
DBH: 10,9,8cm. HxW (m): 4 x 3. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. . TPZ (rad. m): 2. SRZ (rad. m): 1.6. Permit: BS_Undersize.



Tree ID:196. *Allocasuarina littoralis* (Black She-oak), Early-mature Indigenous (Planted).
DBH: 17cm. HxW (m): 5 x 4. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. . TPZ (rad. m): 2. SRZ (rad. m): 1.8. Permit: BS_Undersize.



Tree ID:197. *Acacia implexa* (Lightwood), Early-mature Indigenous (Planted).
DBH: 20cm. HxW (m): 9 x 4. Health: Poor. Structure: Fair to Poor. Arb. Rating: Low. Canker/galls, included bark forksw compression flaring. Dieback assoc w fasciation.. TPZ (rad. m): 2.4. SRZ (rad. m): 1.9. Permit: BS_Undersize.



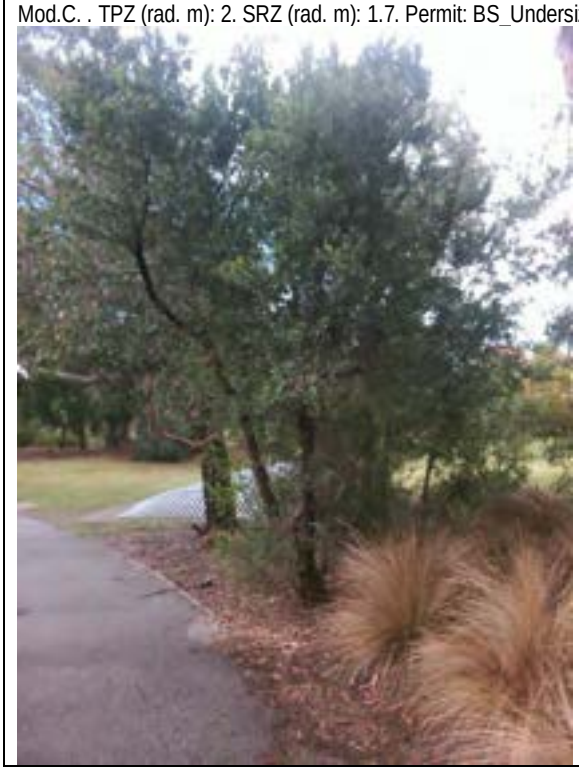
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Tree ID:199. *Eucalyptus ovata* (Swamp Gum), Early-mature Indigenous (Planted).
DBH: 20,16,15cm. HxW (m): 9 x 8. Health: Poor. Structure: Poor. Arb. Rating: Low. Declining, main leader dead, multi-stemmed.. TPZ (rad. m): 3.6. SRZ (rad. m): 2.5. Permit: BS_LL_permit.



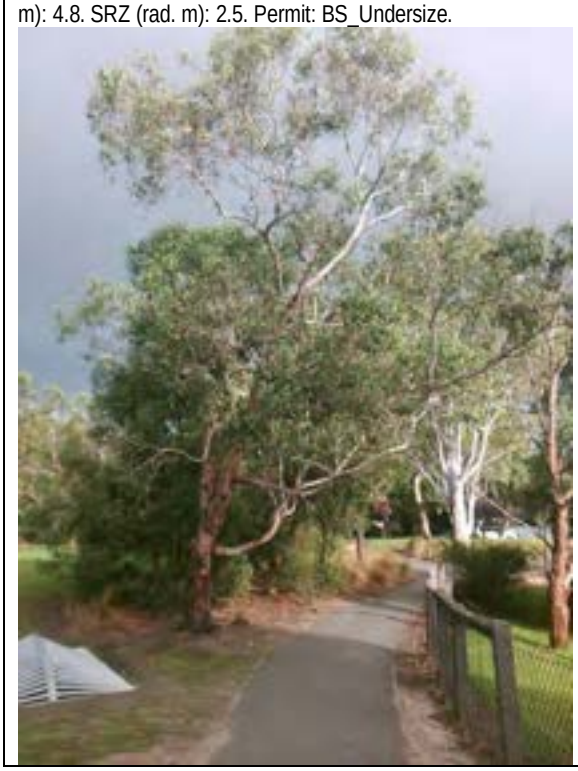
Tree ID:200. *Bursaria spinosa* (Sweet Bursaria), Early-mature Indigenous (Planted).
DBH: 10,10,8cm. HxW (m): 4 x 4. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. . TPZ (rad. m): 2. SRZ (rad. m): 1.7. Permit: BS_Undersize.



Tree ID:201. *Acacia melanoxylon* (Blackwood), Semi-mature Indigenous (Planted).
DBH: 11,10,9,9cm. HxW (m): 4 x 4. Health: Fair. Structure: Fair to Poor. Arb. Rating: Mod.C. Multi-stemmed.. TPZ (rad. m): 2. SRZ (rad. m): 1.8. Permit: BS_Undersize.



Tree ID:202. *Eucalyptus ovata* (Swamp Gum), Semi-mature Indigenous (Planted).
DBH: 40cm. HxW (m): 9 x 8. Health: Fair. Structure: Fair to Poor. Arb. Rating: Mod.C. Incipient decay, limb wounds, past stem failure.. TPZ (rad. m): 4.8. SRZ (rad. m): 2.5. Permit: BS_Undersize.



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Tree ID:203. *Eucalyptus camaldulensis* (River Red Gum), Early-mature Indigenous (Planted).
DBH: 37cm. HxW (m): 9 x 9. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. Partly suppressed - crown bias, nw.. TPZ (rad. m): 4.4. SRZ (rad. m): 2.3. Permit: BS_Undersize.



Tree ID:205. *Eucalyptus melliodora* (Yellow Box), Early-mature Indigenous (Planted).
DBH: 23,16cm. HxW (m): 7 x 6. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. Partly suppressed - crown bias, nth.. TPZ (rad. m): 3.4. SRZ (rad. m): 2.1. Permit: BS_Undersize.



Tree ID:204. *Eucalyptus camaldulensis* (River Red Gum), Early-mature Indigenous (Planted).
DBH: 37cm. HxW (m): 11 x 9. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. . TPZ (rad. m): 4.4. SRZ (rad. m): 2.3. Permit: BS_Undersize.



Tree ID:206. *Eucalyptus camaldulensis* (River Red Gum), Early-mature Indigenous (Planted).
DBH: 28cm. HxW (m): 9 x 5. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. . TPZ (rad. m): 3.4. SRZ (rad. m): 2. Permit: BS_Undersize.



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Tree ID:207. *Acacia mearnsii* (Late Black Wattle), Over-mature Indigenous (Planted).
DBH: 28,13cm. HxW (m): 10 x 6. Health: Poor. Structure: Poor. Arb. Rating: Low. Borers, in irreversible decline, partly suppressed - crown bias, nw.. TPZ (rad. m): 3.7. SRZ (rad. m): 2.4. Permit: BS_Undersize.



Tree ID:208. *Eucalyptus cornuta* (Yate), Early-mature Australian native.
DBH: 28cm. HxW (m): 13 x 10. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. . TPZ (rad. m): 3.4. SRZ (rad. m): 2.3. Permit: BS_Undersize.



Tree ID:209. *Eucalyptus melliodora* (Yellow Box), Early-mature Indigenous (Planted).
DBH: 47cm. HxW (m): 14 x 9. Health: Fair. Structure: Fair to Poor. Arb. Rating: Mod.B. Co-dominant stems w compression flaring, partly suppressed - crown bias-NE.
Reduce lesser co-dominant stem. TPZ (rad. m): 5.6. SRZ (rad. m): 2.4. Permit: BS_Undersize.



Tree ID:210. *Acacia melanoxylon* (Blackwood), Semi-mature Indigenous (Planted).
DBH: 12cm. HxW (m): 3 x 2. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. . TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: BS_Undersize.



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Tree ID:211. *Eucalyptus camaldulensis* (River Red Gum), Early-mature Indigenous (Planted).
DBH: 47cm. HxW (m): 11 x 9. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. . TPZ (rad. m): 5.6. SRZ (rad. m): 2.6. Permit: BS_Undersize.



Tree ID:212. *Eucalyptus camaldulensis* (River Red Gum), Early-mature Indigenous (Planted).
DBH: 50cm. HxW (m): 11 x 10. Health: Good. Structure: Fair. Arb. Rating: Mod.A. . TPZ (rad. m): 6. SRZ (rad. m): 2.7. Permit: BS_LL_permit.



Tree ID:213. *Eucalyptus camaldulensis* (River Red Gum), Early-mature Indigenous (Planted).
DBH: 55cm. HxW (m): 13 x 12. Health: Fair. Structure: Fair. Arb. Rating: Mod.A. Over-extended limbs developing.. TPZ (rad. m): 6.6. SRZ (rad. m): 2.8. Permit: BS_LL_permit.



Tree ID:214. *Eucalyptus camaldulensis* (River Red Gum), Early-mature Indigenous (Planted).
DBH: 68 @1.0mcm. HxW (m): 15 x 12. Health: Good. Structure: Fair. Arb. Rating: Mod.A. . TPZ (rad. m): 8.2. SRZ (rad. m): 3. Permit: BS_LL_permit.



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Tree ID:215. *Eucalyptus camaldulensis* (River Red Gum), Early-mature Indigenous (Planted).
DBH: 59,25,16cm. HxW (m): 14 x 10. Health: Good. Structure: Fair. Arb. Rating: Mod.A. Deadwood.. TPZ (rad. m): 7.9. SRZ (rad. m): 3. Permit: BS_LL_permit.



Tree ID:216. *Eucalyptus camaldulensis* (River Red Gum), Semi-mature Indigenous.
DBH: 11 (est.)cm. HxW (m): 6 x 3. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. Natural recruitment.. TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: BS_Undersize.



Tree ID:217. *Acacia melanoxylon* (Blackwood), Early-mature Indigenous (Planted).
DBH: 12,12,11,10cm. HxW (m): 5 x 4. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. Leaning trunk. Cluster of 4 trees.. TPZ (rad. m): 2.7. SRZ (rad. m): 1.6. Permit: BS_Undersize.



Tree ID:218. *Eucalyptus melliodora* (Yellow Box), Early-mature Indigenous (Planted).
DBH: 27cm. HxW (m): 7 x 4. Health: Poor. Structure: Poor. Arb. Rating: Low. Declining, main leader dead.. TPZ (rad. m): 3.2. SRZ (rad. m): 2.1. Permit: BS_Undersize.



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Tree ID:219. *Eucalyptus melliodora* (Yellow Box), Early-mature Indigenous (Planted).
DBH: 30 (est.)cm. HxW (m): 10 x 6. Health: Dead. Structure: Very Poor. Arb. Rating: Very Low. . TPZ (rad. m): 3.6. SRZ (rad. m): 2.1. Permit: BS_Undersize.



Tree ID:220. *Eucalyptus melliodora* (Yellow Box), Early-mature Indigenous (Planted).
DBH: 30cm. HxW (m): 11 x 8. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. Girdling root.. TPZ (rad. m): 3.6. SRZ (rad. m): 2.3. Permit: BS_Undersize.



Tree ID:221. *Eucalyptus melliodora* (Yellow Box), Early-mature Indigenous (Planted).
DBH: 30cm. HxW (m): 15 x 8. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. . TPZ (rad. m): 3.6. SRZ (rad. m): 2.1. Permit: BS_Undersize.



Tree ID:222. *Eucalyptus melliodora* (Yellow Box), Early-mature Indigenous (Planted).
DBH: 40cm. HxW (m): 15 x 8. Health: Fair. Structure: Fair to Poor. Arb. Rating: Mod.C. Congested primary union. At 7m.. TPZ (rad. m): 4.8. SRZ (rad. m): 2.4. Permit: BS_Undersize.



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Tree ID:223. *Eucalyptus ovata* (Swamp Gum), Early-mature Indigenous (Planted).
DBH: 35 (est.)cm. HxW (m): 10 x 8. Health: Poor. Structure: Poor. Arb. Rating: Low. Epicormic shoots, past branch failure, reduced foliage density, trunk wounds.. TPZ (rad. m): 4.2. SRZ (rad. m): 2.4. Permit: BS_Undersize.



Tree ID:224. *Eucalyptus ovata* (Swamp Gum), Early-mature Indigenous (Planted).
DBH: 30cm. HxW (m): 8 x 8. Health: Fair to Poor. Structure: Fair to Poor. Arb. Rating: Mod.C. Leaning trunk, reduced foliage density.. TPZ (rad. m): 3.6. SRZ (rad. m): 2.1. Permit: BS_Undersize.



Tree ID:225. *Eucalyptus camaldulensis* (River Red Gum), Early-mature Indigenous (Planted).
DBH: 65cm. HxW (m): 14 x 14. Health: Fair. Structure: Fair. Arb. Rating: Mod.A. . TPZ (rad. m): 7.8. SRZ (rad. m): 3. Permit: BS_LL_permit.



Tree ID:226. *Eucalyptus camaldulensis* (River Red Gum), Early-mature Indigenous (Planted).
DBH: 38cm. HxW (m): 11 x 7. Health: Fair. Structure: Fair to Poor. Arb. Rating: Mod.B. Past limb failure, trunk wounds.. TPZ (rad. m): 4.6. SRZ (rad. m): 2.5. Permit: BS_Undersize.



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Tree ID:227. *Eucalyptus camaldulensis* (River Red Gum), Young Indigenous (Planted).
DBH: 8cm. HxW (m): 4 x 2. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. . TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: BS_Undersize.



Tree ID:228. *Eucalyptus camaldulensis* (River Red Gum), Semi-mature Indigenous (Planted).
DBH: 32cm. HxW (m): 10 x 6. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. . TPZ (rad. m): 3.8. SRZ (rad. m): 2.2. Permit: BS_Undersize.



Tree ID:229. *Eucalyptus camaldulensis* (River Red Gum), Early-mature Indigenous (Planted).
DBH: 45 (est.)cm. HxW (m): 15 x 8. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. . TPZ (rad. m): 5.4. SRZ (rad. m): 2.5. Permit: BS_Undersize.



Tree ID:230. *Eucalyptus camaldulensis* (River Red Gum), Early-mature Indigenous (Planted).
DBH: 40cm. HxW (m): 14 x 8. Health: Fair. Structure: Fair to Poor. Arb. Rating: Mod.C. Past branch failure.. TPZ (rad. m): 4.8. SRZ (rad. m): 2.4. Permit: BS_Undersize.



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Tree ID:231. *Eucalyptus camaldulensis* (River Red Gum), Maturing Indigenous (Planted).
DBH: 64cm. HxW (m): 18 x 12. Health: Fair. Structure: Fair. Arb. Rating: Mod.A. Exposed roots.. TPZ (rad. m): 7.7. SRZ (rad. m): 2.9. Permit: BS_LL_permit.



Tree ID:234. *Eucalyptus camaldulensis* (River Red Gum), Maturing Indigenous (Planted).
DBH: 40,35 (est.)cm. HxW (m): 9 x 15. Health: Fair. Structure: Fair to Poor. Arb. Rating: Mod.B. Past branch failure, past limb failure. Low canopy.. TPZ (rad. m): 6.4. SRZ (rad. m): 2.6. Permit: BS_LL_permit.



Tree ID:233. *Eucalyptus camaldulensis* (River Red Gum), Young Indigenous (Planted).
DBH: 7cm. HxW (m): 4 x 2. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. . TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: BS_Undersize.



Tree ID:235. *Eucalyptus camaldulensis* (River Red Gum), Semi-mature Indigenous (Planted).
DBH: 20cm. HxW (m): 12 x 5. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. . TPZ (rad. m): 2.4. SRZ (rad. m): 1.8. Permit: BS_Undersize.



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Tree ID:236. *Eucalyptus camaldulensis* (River Red Gum), Semi-mature Indigenous (Planted).
DBH: 30cm. HxW (m): 13 x 8. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. . TPZ (rad. m): 3.6. SRZ (rad. m): 2.3. Permit: BS_Undersize.



Tree ID:238. *Eucalyptus camaldulensis* (River Red Gum), Maturing Indigenous (Planted).
DBH: 51cm. HxW (m): 13 x 13. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. . TPZ (rad. m): 6.1. SRZ (rad. m): 2.7. Permit: BS_LL_permit.



Tree ID:237. *Eucalyptus camaldulensis* (River Red Gum), Early-mature Indigenous (Planted).
DBH: 40 (est.)cm. HxW (m): 16 x 8. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. . TPZ (rad. m): 4.8. SRZ (rad. m): 2.5. Permit: BS_Undersize.



Tree ID:239. *Eucalyptus camaldulensis* (River Red Gum), Maturing Indigenous (Planted).
DBH: 52cm. HxW (m): 16 x 10. Health: Fair. Structure: Fair. Arb. Rating: Mod.A. . TPZ (rad. m): 6.2. SRZ (rad. m): 2.7. Permit: BS_LL_permit.



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Tree ID:240. *Eucalyptus camaldulensis* (River Red Gum), Early-mature Indigenous (Planted).
DBH: 32cm. HxW (m): 12 x 8. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. . TPZ (rad. m): 3.8. SRZ (rad. m): 2.3. Permit: BS_Undersize.



Tree ID:241. *Eucalyptus camaldulensis* (River Red Gum), Young Indigenous (Planted).
DBH: 5cm. HxW (m): 3 x 2. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. . TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: BS_Undersize.



Tree ID:242. *Eucalyptus camaldulensis* (River Red Gum), Maturing Indigenous (Planted).
DBH: 59cm. HxW (m): 16 x 10. Health: Fair. Structure: Fair. Arb. Rating: Mod.A. . TPZ (rad. m): 7.1. SRZ (rad. m): 2.8. Permit: BS_LL_permit.



Tree ID:243. *Eucalyptus camaldulensis* (River Red Gum), Young Indigenous (Planted).
DBH: 5cm. HxW (m): 3 x 2. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. . TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: BS_Undersize.



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Tree ID:244. *Eucalyptus melliodora* (Yellow Box), Early-mature Indigenous (Planted).
DBH: 37cm. HxW (m): 14 x 8. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. . TPZ (rad. m): 4.4. SRZ (rad. m): 2.4. Permit: BS_Undersize.



Tree ID:245. *Eucalyptus melliodora* (Yellow Box), Semi-mature Indigenous (Planted).
DBH: 27cm. HxW (m): 14 x 8. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. . TPZ (rad. m): 3.2. SRZ (rad. m): 2.1. Permit: BS_Undersize.



Tree ID:246. *Eucalyptus melliodora* (Yellow Box), Semi-mature Indigenous (Planted).
DBH: 27cm. HxW (m): 14 x 8. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. . TPZ (rad. m): 3.2. SRZ (rad. m): 2.1. Permit: BS_Undersize.



Tree ID:247. *Eucalyptus camaldulensis* (River Red Gum), Early-mature Indigenous (Planted).
DBH: 39cm. HxW (m): 15 x 10. Health: Fair to Poor. Structure: Fair to Poor. Arb. Rating: Mod.C. Chlorotic foliage.. TPZ (rad. m): 4.7. SRZ (rad. m): 2.4. Permit: BS_Undersize.



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Tree ID:248. *Eucalyptus camaldulensis* (River Red Gum), Early-mature Indigenous (Planted).
DBH: 42cm. HxW (m): 15 x 10. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. . TPZ (rad. m): 5. SRZ (rad. m): 2.5. Permit: BS_Undersize.



Tree ID:249. *Eucalyptus camaldulensis* (River Red Gum), Maturing Indigenous (Planted).
DBH: 60cm. HxW (m): 17 x 12. Health: Fair. Structure: Fair. Arb. Rating: Mod.A. . TPZ (rad. m): 7.2. SRZ (rad. m): 3.1. Permit: BS_LL_permit.



Tree ID:250. *Eucalyptus camaldulensis* (River Red Gum), Semi-mature Indigenous (Planted).
DBH: 15cm. HxW (m): 6 x 10. Health: Fair. Structure: Fair to Poor. Arb. Rating: Mod.C. Suppressed.. TPZ (rad. m): 2. SRZ (rad. m): 1.7. Permit: BS_Undersize.



Tree ID:251. *Eucalyptus camaldulensis* (River Red Gum), Maturing Indigenous (Planted).
DBH: 45cm. HxW (m): 13 x 10. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. . TPZ (rad. m): 5.4. SRZ (rad. m): 2.7. Permit: BS_Undersize.



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Tree ID:252. *Eucalyptus camaldulensis* (River Red Gum), Young Indigenous (Planted).
DBH: 5cm. HxW (m): 4 x 2. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. . TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: BS_Undersize.



Tree ID:253. *Eucalyptus ovata* (Swamp Gum), Early-mature Indigenous (Planted).
DBH: 37cm. HxW (m): 10 x 8. Health: Fair. Structure: Fair to Poor. Arb. Rating: Mod.C. Exposed roots, trunk wounds.. TPZ (rad. m): 4.4. SRZ (rad. m): 2.5. Permit: BS_Undersize.



Tree ID:254. *Eucalyptus camaldulensis* (River Red Gum), Maturing Indigenous (Planted).
DBH: 55cm. HxW (m): 10 x 10. Health: Fair. Structure: Fair to Poor. Arb. Rating: Mod.B. Low canopy.
Clearance pruning - pedestrian. TPZ (rad. m): 6.6. SRZ (rad. m): 2.7. Permit: BS_LL_permit.



Tree ID:255. *Eucalyptus melliodora* (Yellow Box), Maturing Indigenous (Planted).
DBH: 46cm. HxW (m): 15 x 12. Health: Fair. Structure: Fair to Poor. Arb. Rating: Mod.C. Past limb failure.. TPZ (rad. m): 5.5. SRZ (rad. m): 2.6. Permit: BS_Undersize.



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Tree ID:256. *Eucalyptus melliodora* (Yellow Box), Early-mature Indigenous (Planted).
DBH: 34 @0.8mcm. HxW (m): 9 x 10. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. . TPZ (rad. m): 4.1. SRZ (rad. m): 2.3. Permit: BS_Undersize.



Tree ID:257. *Eucalyptus melliodora* (Yellow Box), Maturing Indigenous (Planted).
DBH: 51cm. HxW (m): 14 x 10. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. . TPZ (rad. m): 6.1. SRZ (rad. m): 2.6. Permit: BS_LL_permit.



Tree ID:258. *Eucalyptus camaldulensis* (River Red Gum), Semi-mature Indigenous (Planted).
DBH: 12cm. HxW (m): 5 x 3. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. Natural recruitment plus 2 mor saplings within 1m.. TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: BS_Undersize.



Tree ID:259. *Eucalyptus camaldulensis* (River Red Gum), Semi-mature Indigenous (Planted).
DBH: 11cm. HxW (m): 5 x 3. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. . TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: BS_Undersize.



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Tree ID:260. *Eucalyptus ovata* (Swamp Gum), Early-mature Indigenous (Planted).
DBH: 33,32 (est.)cm. HxW (m): 6 x 9. Health: Fair. Structure: Fair to Poor. Arb. Rating: Mod.B. . TPZ (rad. m): 5.5. SRZ (rad. m): 2.4. Permit: BS_LL_permit.



Tree ID:261. *Eucalyptus camaldulensis* (River Red Gum), Young Indigenous (Planted).
DBH: 8cm. HxW (m): 5 x 2. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. . TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: BS_Undersize.



Tree ID:262. *Eucalyptus camaldulensis* (River Red Gum), Early-mature Indigenous (Planted).
DBH: 45cm. HxW (m): 14 x 14. Health: Good. Structure: Fair. Arb. Rating: Mod.A. . TPZ (rad. m): 5.4. SRZ (rad. m): 2.6. Permit: BS_Undersize.



Tree ID:263. *Eucalyptus camaldulensis* (River Red Gum), Young Indigenous (Planted).
DBH: 8cm. HxW (m): 5 x 2. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. . TPZ (rad. m): 2. SRZ (rad. m): 3.3. Permit: BS_Undersize.



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Tree ID:264. *Eucalyptus camaldulensis* (River Red Gum), Young Indigenous (Planted).
DBH: 10cm. HxW (m): 5 x 3. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. . TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: BS_Undersize.



Tree ID:265. *Eucalyptus camaldulensis* (River Red Gum), Young Indigenous (Planted).
DBH: 10cm. HxW (m): 6 x 3. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. . TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: BS_Undersize.



Tree ID:266. *Eucalyptus camaldulensis* (River Red Gum), Young Indigenous (Planted).
DBH: 12cm. HxW (m): 6 x 5. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. . TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: BS_Undersize.



Tree ID:267. *Eucalyptus camaldulensis* (River Red Gum), Young Indigenous (Planted).
DBH: 12,6cm. HxW (m): 5 x 4. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. . TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: BS_Undersize.



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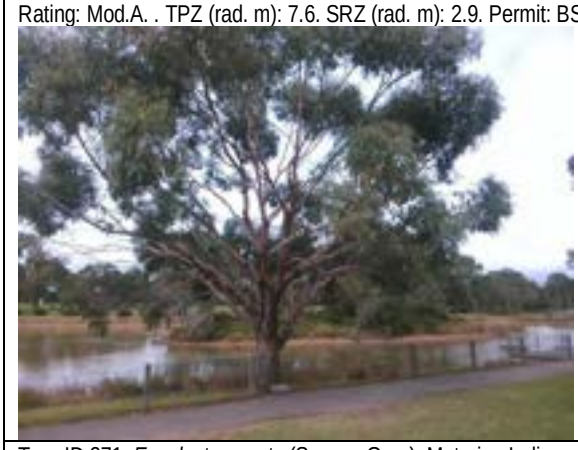
Tree ID:268. *Eucalyptus camaldulensis* (River Red Gum), Young Indigenous (Planted).
DBH: 15 (est.)cm. HxW (m): 5 x 4. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. . TPZ (rad. m): 2. SRZ (rad. m): 1.6. Permit: BS_Undersize.



Tree ID:269. *Casuarina cunninghamiana* (River She-oak), Young Australian native.
DBH: 8cm. HxW (m): 5 x 3. Health: Fair. Structure: Fair. Arb. Rating: Low. . TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: BS_Undersize.



Tree ID:270. *Eucalyptus ovata* (Swamp Gum), Maturing Indigenous (Planted).
DBH: 63 (est.)cm. HxW (m): 10 x 17. Health: Good. Structure: Fair. Arb. Rating: Mod.A. . TPZ (rad. m): 7.6. SRZ (rad. m): 2.9. Permit: BS_LL_permit.



Tree ID:271. *Eucalyptus ovata* (Swamp Gum), Maturing Indigenous (Planted).
DBH: 57cm. HxW (m): 12 x 15. Health: Fair. Structure: Fair to Poor. Arb. Rating: Mod.B. Past limb failure, trunk wounds, over-extended limbs developing-SE & NW. Reduce over-extended branch. TPZ (rad. m): 6.8. SRZ (rad. m): 2.8. Permit: BS_LL_permit.



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Tree ID:272. *Eucalyptus melliodora* (Yellow Box), Maturing Indigenous (Planted).
DBH: 41cm. HxW (m): 20 x 10. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. Co-dominant stems.. TPZ (rad. m): 4.9. SRZ (rad. m): 2.5. Permit: BS_Undersize.



Tree ID:273. *Corymbia maculata* (Spotted Gum), Semi-mature Victorian native.
DBH: 33cm. HxW (m): 15 x 10. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. Exposed roots.. TPZ (rad. m): 4. SRZ (rad. m): 2.4. Permit: BS_Undersize.



Tree ID:274. *Eucalyptus camaldulensis* (River Red Gum), Maturing Indigenous (Planted).
DBH: 83cm. HxW (m): 18 x 15. Health: Fair to Poor. Structure: Fair. Arb. Rating: Mod.B. Bracket fungi, exposed roots.. TPZ (rad. m): 10. SRZ (rad. m): 3.3. Permit: BS_LL_permit.



Tree ID:275. *Corymbia maculata* (Spotted Gum), Maturing Victorian native.
DBH: 45cm. HxW (m): 15 x 12. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. Exposed roots.. TPZ (rad. m): 5.4. SRZ (rad. m): 2.5. Permit: BS_Undersize.



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Tree ID:276. *Eucalyptus melliodora* (Yellow Box), Early-mature Indigenous (Planted).
DBH: 44cm. HxW (m): 12 x 8. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. Acute forks.. TPZ (rad. m): 5.3. SRZ (rad. m): 2.5. Permit: BS_Undersize.



Tree ID:278. *Eucalyptus melliodora* (Yellow Box), Early-mature Indigenous (Planted).
DBH: 43cm. HxW (m): 15 x 5. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. Co-dominant stems, included bark.. TPZ (rad. m): 5.2. SRZ (rad. m): 2.5. Permit: BS_Undersize.



Tree ID:280. *Eucalyptus melliodora* (Yellow Box), Early-mature Indigenous (Planted).
DBH: 46cm. HxW (m): 12 x 7. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. . TPZ (rad. m): 5.5. SRZ (rad. m): 2.5. Permit: BS_Undersize.



Tree ID:281. *Eucalyptus melliodora* (Yellow Box), Early-mature Indigenous (Planted).
DBH: 62cm. HxW (m): 12 x 9. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. Co-dominant forks.. TPZ (rad. m): 7.4. SRZ (rad. m): 2.6. Permit: BS_LL_permit.



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Tree ID:282. *Eucalyptus melliodora* (Yellow Box), Early-mature Indigenous (Planted).
DBH: 35cm. HxW (m): 9 x 5. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. . TPZ (rad. m): 4.2. SRZ (rad. m): 2.3. Permit: BS_Undersize.



Tree ID:283. *Eucalyptus melliodora* (Yellow Box), Early-mature Indigenous (Planted).
DBH: 34cm. HxW (m): 11 x 6. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. . TPZ (rad. m): 4.1. SRZ (rad. m): 2.3. Permit: BS_Undersize.



Tree ID:284. *Eucalyptus ovata* (Swamp Gum), Early-mature Indigenous (Planted).
DBH: 44cm. HxW (m): 10 x 10. Health: Fair to Poor. Structure: Fair. Arb. Rating: Mod.C. Reduced foliage density.. TPZ (rad. m): 5.3. SRZ (rad. m): 2.5. Permit: BS_Undersize.



Tree ID:285. *Eucalyptus ovata* (Swamp Gum), Early-mature Indigenous (Planted).
DBH: 40cm. HxW (m): 9 x 9. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. . TPZ (rad. m): 4.8. SRZ (rad. m): 2.4. Permit: BS_Undersize.



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Tree ID:286. *Eucalyptus camaldulensis* (River Red Gum), Early-mature Indigenous (Planted).
DBH: 84cm. HxW (m): 16 x 12. Health: Fair. Structure: Fair. Arb. Rating: Mod.A. Crossing branches.. TPZ (rad. m): 10.1. SRZ (rad. m): 3.2. Permit: BS_LL_permit.



Tree ID:288. *Eucalyptus camaldulensis* (River Red Gum), Early-mature Indigenous (Planted).
DBH: 87cm. HxW (m): 15 x 16. Health: Fair. Structure: Fair. Arb. Rating: Mod.A. . TPZ (rad. m): 10.4. SRZ (rad. m): 3.2. Permit: BS_LL_permit.



Tree ID:290. *Eucalyptus camaldulensis* (River Red Gum), Maturing Indigenous (Planted).
DBH: 100cm. HxW (m): 16 x 21. Health: Good. Structure: Fair. Arb. Rating: Mod.A. . TPZ (rad. m): 12. SRZ (rad. m): 3.6. Permit: BS_LL_permit.



Tree ID:291. *Eucalyptus sideroxylon* (Red Ironbark), Early-mature Australian native.
DBH: 67cm. HxW (m): 13 x 12. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. Co-dominant stems w compression flaring.. TPZ (rad. m): 8. SRZ (rad. m): 2.8. Permit: BS_LL_permit.



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Tree ID:294. *Corymbia maculata* (Spotted Gum), Early-mature Victorian native.
DBH: 32cm. HxW (m): 12 x 11. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. . TPZ (rad. m): 3.8. SRZ (rad. m): 2.4. Permit: BS_Undersize.



Tree ID:298. *Corymbia maculata* (Spotted Gum), Early-mature Victorian native.
DBH: 32cm. HxW (m): 10 x 6. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. . TPZ (rad. m): 3.8. SRZ (rad. m): 2.2. Permit: BS_Undersize.



Tree ID:296. *Eucalyptus camaldulensis* (River Red Gum), Early-mature Indigenous (Planted).
DBH: 80cm. HxW (m): 15 x 11. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. Incipient decay, past branch failure, trunk wounds.. TPZ (rad. m): 9.6. SRZ (rad. m): 3.2. Permit: BS_LL_permit.



Tree ID:300. *Eucalyptus camaldulensis* (River Red Gum), Early-mature Indigenous (Planted).
DBH: 57,55,40cm. HxW (m): 16 x 13. Health: Good. Structure: Fair. Arb. Rating: Mod.A. . TPZ (rad. m): 10.6. SRZ (rad. m): 3.4. Permit: BS_LL_permit.



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Tree ID:301. *Eucalyptus camaldulensis* (River Red Gum), Early-mature Indigenous (Planted).
DBH: 42cm. HxW (m): 14 x 8. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. Co-dominant forks.. TPZ (rad. m): 5. SRZ (rad. m): 2.5. Permit: BS_Undersize.



Tree ID:305. *Eucalyptus camaldulensis* (River Red Gum), Early-mature Indigenous (Planted).
DBH: 45cm. HxW (m): 11 x 8. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. Co-dominant stems, past branch failure.. TPZ (rad. m): 5.4. SRZ (rad. m): 2.5. Permit: BS_Undersize.



Tree ID:304. *Eucalyptus camaldulensis* (River Red Gum), Semi-mature Indigenous (Planted).
DBH: 46cm. HxW (m): 14 x 8. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. . TPZ (rad. m): 5.5. SRZ (rad. m): 2.6. Permit: BS_Undersize.



Tree ID:306. *Eucalyptus camaldulensis* (River Red Gum), Semi-mature Indigenous (Planted).
DBH: 12cm. HxW (m): 5 x 2. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. . TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: BS_Undersize.



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Tree ID:307. *Eucalyptus camaldulensis* (River Red Gum), Early-mature Indigenous (Planted).
DBH: 57cm. HxW (m): 17 x 9. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. Co-dominant stems.. TPZ (rad. m): 6.8. SRZ (rad. m): 2.8. Permit: BS_LL_permit.



Tree ID:308. *Eucalyptus camaldulensis* (River Red Gum), Early-mature Indigenous (Planted).
DBH: 49cm. HxW (m): 11 x 10. Health: Good. Structure: Fair. Arb. Rating: Mod.A. . TPZ (rad. m): 5.9. SRZ (rad. m): 2.6. Permit: BS_LL_permit.



Tree ID:309. *Eucalyptus camaldulensis* (River Red Gum), Early-mature Indigenous (Planted).
DBH: 66cm. HxW (m): 14 x 13. Health: Good. Structure: Fair. Arb. Rating: Mod.A. 1 Girdling root.. TPZ (rad. m): 7.9. SRZ (rad. m): 3. Permit: BS_LL_permit.



Tree ID:310. *Eucalyptus camaldulensis* (River Red Gum), Early-mature Indigenous (Planted).
DBH: 47cm. HxW (m): 11 x 10. Health: Fair. Structure: Fair. Arb. Rating: Mod.A. Deadwood.. TPZ (rad. m): 5.6. SRZ (rad. m): 2.7. Permit: BS_Undersize.



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Tree ID:311. *Syzygium australe* (Scrub Cherry), Young Australian native.
DBH: 8 @<=0.5mcm. HxW (m): 2 x 1. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. Street tree.. TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: BS_Undersize.



Tree ID:312. *Prunus cerasifera 'Nigra'* (Purple Leaf Cherry Plum), Maturing Exotic deciduous.
DBH: 32 @0.8mcm. HxW (m): 4 x 6. Health: Fair. Structure: Fair to Poor. Arb. Rating: Mod.C. Street tree, suckers.. TPZ (rad. m): 3.8. SRZ (rad. m): 2.1. Permit: BS_Undersize.



Tree ID:313. *Corymbia ficifolia* (Red-flowering Gum), Early-mature Australian native.
DBH: 19,14,13cm. HxW (m): 3 x 5. Health: Fair to Poor. Structure: Fair to Poor. Arb. Rating: Mod.C. Crossing branches, reduced foliage density.. TPZ (rad. m): 3.2. SRZ (rad. m): 1.8. Permit: BS_Undersize.



Tree ID:314. *Prunus cerasifera 'Nigra'* (Purple Leaf Cherry Plum), Maturing Exotic deciduous.
DBH: 27 @<=0.5mcm. HxW (m): 5 x 4. Health: Fair. Structure: Poor. Arb. Rating: Mod.C. Basal wounds, incipient decay, street tree.. TPZ (rad. m): 3.2. SRZ (rad. m): 2.1. Permit: BS_Undersize.



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Tree ID:315. *Lophostemon confertus* (Brush Box), Early-mature Australian native.
DBH: 40cm. HxW (m): 7 x 7. Health: Good. Structure: Fair. Arb. Rating: Mod.B. . TPZ (rad. m): 4.8. SRZ (rad. m): 2.4. Permit: BS_Undersize.



Tree ID:316. *Prunus cerasifera 'Nigra'* (Purple Leaf Cherry Plum), Maturing Exotic deciduous.
DBH: 24 @0.8mcm. HxW (m): 4 x 6. Health: Fair. Structure: Fair to Poor. Arb. Rating: Mod.C. Basal wounds, street tree.. TPZ (rad. m): 2.9. SRZ (rad. m): 2.1. Permit: BS_Undersize.



Tree ID:317. *Lophostemon confertus* (Brush Box), Early-mature Australian native.
DBH: 25cm. HxW (m): 5 x 6. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. Partly suppressed - crown bias, nth.. TPZ (rad. m): 3. SRZ (rad. m): 2.1. Permit: BS_Undersize.



Tree ID:318. *Lophostemon confertus* (Brush Box), Early-mature Australian native.
DBH: 33cm. HxW (m): 7 x 7. Health: Good. Structure: Fair. Arb. Rating: Mod.B. . TPZ (rad. m): 4. SRZ (rad. m): 2.3. Permit: BS_Undersize.



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Tree ID:319. *Prunus cerasifera 'Nigra'* (Purple Leaf Cherry Plum), Maturing Exotic deciduous.
DBH: 25 @0.8mcm. HxW (m): 4 x 5. Health: Fair to Poor. Structure: Fair to Poor. Arb. Rating: Mod.C. Basal wounds, incipient decay, street tree.. TPZ (rad. m): 3. SRZ (rad. m): 2.1. Permit: BS_Undersize.



Tree ID:320. *Eucalyptus camaldulensis* (River Red Gum), Early-mature Indigenous (Planted).
DBH: 45cm. HxW (m): 11 x 9. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. Co-dominant stems.. TPZ (rad. m): 5.4. SRZ (rad. m): 2.5. Permit: BS_Undersize.



Tree ID:327. *Eucalyptus camaldulensis* (River Red Gum), Early-mature Indigenous (Planted).
DBH: 38cm. HxW (m): 12 x 10. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. . TPZ (rad. m): 4.6. SRZ (rad. m): 2.5. Permit: BS_Undersize.



Tree ID:328. *Eucalyptus camaldulensis* (River Red Gum), Semi-mature Indigenous (Planted).
DBH: 20cm. HxW (m): 12 x 5. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. . TPZ (rad. m): 2.4. SRZ (rad. m): 1.8. Permit: BS_Undersize.



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Tree ID:329. *Eucalyptus camaldulensis* (River Red Gum), Semi-mature Indigenous (Planted).
DBH: 28cm. HxW (m): 13 x 6. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. . TPZ (rad. m): 3.4. SRZ (rad. m): 2.2. Permit: BS_Undersize.



Tree ID:330. *Eucalyptus camaldulensis* (River Red Gum), Early-mature Indigenous (Planted).
DBH: 27,20,20cm. HxW (m): 14 x 8. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. . TPZ (rad. m): 4.7. SRZ (rad. m): 2.3. Permit: BS_LL_permit.



Tree ID:331. *Eucalyptus camaldulensis* (River Red Gum), Early-mature Indigenous (Planted).
DBH: 42cm. HxW (m): 15 x 10. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. . TPZ (rad. m): 5. SRZ (rad. m): 2.5. Permit: BS_Undersize.



Tree ID:332. *Eucalyptus camaldulensis* (River Red Gum), Maturing Indigenous (Planted).
DBH: 60cm. HxW (m): 16 x 10. Health: Fair. Structure: Fair. Arb. Rating: Mod.A. Surface roots.. TPZ (rad. m): 7.2. SRZ (rad. m): 3. Permit: BS_LL_permit.



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Tree ID:333. *Eucalyptus camaldulensis* (River Red Gum), Early-mature Indigenous (Planted).
DBH: 35,31cm. HxW (m): 10 x 8. Health: Good. Structure: Fair. Arb. Rating: Mod.A. Acute forks, co-dominant stems.
Reduce lesser co-dominant stem. TPZ (rad. m): 5.6. SRZ (rad. m): 2.7. Permit: BS_LL_permit.



Tree ID:334. *Eucalyptus camaldulensis* (River Red Gum), Young Indigenous (Planted).
DBH: 4cm. HxW (m): 3 x 1. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. . TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: BS_Undersize.



Tree ID:335. *Eucalyptus camaldulensis* (River Red Gum), Young Indigenous (Planted).
DBH: 2cm. HxW (m): 2 x 1. Health: Fair to Poor. Structure: Fair. Arb. Rating: Mod.C. Minor dieback.. TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: BS_Undersize.



Tree ID:336. *Eucalyptus camaldulensis* (River Red Gum), Early-mature Indigenous (Planted).
DBH: 35cm. HxW (m): 14 x 8. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. . TPZ (rad. m): 4.2. SRZ (rad. m): 2.3. Permit: BS_Undersize.



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Tree ID:337. *Eucalyptus camaldulensis* (River Red Gum), Semi-mature Indigenous (Planted).
DBH: 25cm. HxW (m): 10 x 6. Health: Fair. Structure: Fair to Poor. Arb. Rating: Mod.C. Girdling root.. TPZ (rad. m): 3. SRZ (rad. m): 2.1. Permit: BS_Undersize.



Tree ID:338. *Eucalyptus camaldulensis* (River Red Gum), Semi-mature Indigenous (Planted).
DBH: 20cm. HxW (m): 8 x 6. Health: Fair to Poor. Structure: Fair to Poor. Arb. Rating: Mod.C. . TPZ (rad. m): 2.4. SRZ (rad. m): 1.9. Permit: BS_Undersize.



Tree ID:339. *Eucalyptus camaldulensis* (River Red Gum), Semi-mature Indigenous (Planted).
DBH: 20cm. HxW (m): 10 x 5. Health: Fair to Poor. Structure: Fair to Poor. Arb. Rating: Mod.C. . TPZ (rad. m): 2.4. SRZ (rad. m): 2. Permit: BS_Undersize.



Tree ID:340. *Eucalyptus camaldulensis* (River Red Gum), Maturing Indigenous (Planted).
DBH: 51cm. HxW (m): 13 x 10. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. . TPZ (rad. m): 6.1. SRZ (rad. m): 2.7. Permit: BS_LL_permit.



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Tree ID:341. *Eucalyptus camaldulensis* (River Red Gum), Early-mature Indigenous (Planted).
DBH: 78cm. HxW (m): 15 x 13. Health: Fair. Structure: Fair to Poor. Arb. Rating: Mod.B. Basal wounds, included bark forks, trunk wounds, partly suppressed - crown bias.. TPZ (rad. m): 9.4. SRZ (rad. m): 3.2. Permit: BS_LL_permit.



Tree ID:342. *Corymbia maculata* (Spotted Gum), Early-mature Victorian native.
DBH: 33cm. HxW (m): 12 x 8. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. Partly suppressed - crown bias, nth.. TPZ (rad. m): 4. SRZ (rad. m): 2.3. Permit: BS_Undersize.



Tree ID:343. *Eucalyptus camaldulensis* (River Red Gum), Early-mature Indigenous (Planted).
DBH: 68cm. HxW (m): 14 x 11. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. Acute forks, partly suppressed - crown bias, sw.. TPZ (rad. m): 8.2. SRZ (rad. m): 3.1. Permit: BS_LL_permit.



Tree ID:344. *Ulmus procera* (English Elm), Early-mature Exotic deciduous.
DBH: 42cm. HxW (m): 6 x 7. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. . TPZ (rad. m): 5. SRZ (rad. m): 2.5. Permit: BS_Undersize.



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Tree ID:345. *Eucalyptus ovata* (Swamp Gum), Early-mature Indigenous (Planted).
DBH: 52cm. HxW (m): 13 x 14. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. Over-extended limbs developing.. TPZ (rad. m): 6.2. SRZ (rad. m): 2.7. Permit: BS_LL_permit.



Tree ID:346. *Agathis robusta* (Queensland Kauri), Semi-mature Australian conifer.
DBH: 10cm. HxW (m): 4 x 2. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. Side shoots emerging below 1m need to be pruned away.. TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: BS_Undersize.



Tree ID:347. *Melaleuca armillaris* (Bracelet Honey-myrtle), Early-mature Victorian native.
DBH: 30 (est.)cm. HxW (m): 7 x 10. Health: Fair to Poor. Structure: Poor. Arb. Rating: Low. . TPZ (rad. m): 3.6. SRZ (rad. m): 2.3. Permit: BS_Undersize.



Tree ID:348. *Eucalyptus ovata* (Swamp Gum), Maturing Indigenous (Planted).
DBH: 88,47cm. HxW (m): 12 x 10. Health: Poor. Structure: Poor. Arb. Rating: Low. Main leader dead.. TPZ (rad. m): 12. SRZ (rad. m): 3.4. Permit: BS_LL_permit.



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Tree ID:349. *Eucalyptus camaldulensis* (River Red Gum), Early-mature Indigenous (Planted).
DBH: 46cm. HxW (m): 7 x 8. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. . TPZ (rad. m): 5.5. SRZ (rad. m): 2.5. Permit: BS_Undersize.



Tree ID:350. *Eucalyptus camaldulensis* (River Red Gum), Maturing Indigenous (Planted).
DBH: 63cm. HxW (m): 12 x 10. Health: Fair to Poor. Structure: Fair. Arb. Rating: Mod.B. . TPZ (rad. m): 7.6. SRZ (rad. m): 2.8. Permit: BS_LL_permit.



Tree ID:351. *Eucalyptus camaldulensis* (River Red Gum), Semi-mature Indigenous (Planted).
DBH: 24cm. HxW (m): 6 x 5. Health: Fair to Poor. Structure: Fair to Poor. Arb. Rating: Mod.C. . TPZ (rad. m): 2.9. SRZ (rad. m): 1.9. Permit: BS_Undersize.



Tree ID:352. *Eucalyptus camaldulensis* (River Red Gum), Early-mature Indigenous (Planted).
DBH: 63cm. HxW (m): 16 x 14. Health: Fair. Structure: Fair. Arb. Rating: Mod.A. Acute forks.. TPZ (rad. m): 7.6. SRZ (rad. m): 2.8. Permit: BS_LL_permit.



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Tree ID:353. *Eucalyptus camaldulensis* (River Red Gum), Early-mature Indigenous (Planted).
DBH: 72cm. HxW (m): 14 x 15. Health: Fair. Structure: Fair. Arb. Rating: Mod.A. . TPZ (rad. m): 8.6. SRZ (rad. m): 3. Permit: BS_LL_permit.



Tree ID:354. *Eucalyptus botryoides* (Southern Mahogany), Over-mature Victorian native.
DBH: 67,26,26,13,11cm. HxW (m): 5 x 9. Health: Fair to Poor. Structure: Poor. Arb. Rating: Very Low. Stump re-sprout.
Remove to cut stump. TPZ (rad. m): 9.4. SRZ (rad. m): 3.6. Permit: BS_LL_permit.



Tree ID:355. *Eucalyptus camaldulensis* (River Red Gum), Early-mature Indigenous (Planted).
DBH: 35cm. HxW (m): 7 x 6. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. . TPZ (rad. m): 4.2. SRZ (rad. m): 2.3. Permit: BS_Undersize.



Tree ID:356. *Eucalyptus camaldulensis* (River Red Gum), Early-mature Indigenous (Planted).
DBH: 54cm. HxW (m): 8 x 9. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. . TPZ (rad. m): 6.5. SRZ (rad. m): 2.7. Permit: BS_LL_permit.



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Tree ID:357. *Populus Xcanadensis* (Grey Poplar), Early-mature Exotic deciduous.
DBH: 78cm. HxW (m): 12 x 11. Health: Fair to Poor. Structure: Fair to Poor. Arb. Rating: Low. Dieback advancing, habitat hollows.. TPZ (rad. m): 9.4. SRZ (rad. m): 2.7. Permit: BS_LL_permit.



Tree ID:358. *Cupressus macrocarpa 'Goldcrest'* (Golden Monterey Cypress), Maturing Exotic conifer.
DBH: 74cm. HxW (m): 8 x 12. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. . TPZ (rad. m): 8.9. SRZ (rad. m): 3.1. Permit: BS_LL_permit.



Tree ID:359. *Eucalyptus botryoides* (Southern Mahogany), Early-mature Victorian native.
DBH: 23,22,21,18cm. HxW (m): 9 x 9. Health: Fair to Poor. Structure: Fair to Poor. Arb. Rating: Low. . TPZ (rad. m): 5.1. SRZ (rad. m): 2.8. Permit: BS_LL_permit.



Tree ID:360. *Eucalyptus ovata* (Swamp Gum), Maturing Indigenous (Planted).
DBH: 50cm. HxW (m): 10 x 12. Health: Fair. Structure: Fair to Poor. Arb. Rating: Mod.C. . TPZ (rad. m): 6. SRZ (rad. m): 2.6. Permit: BS_LL_permit.



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Tree ID:361. *Cupressus macrocarpa* (Monterey Cypress), Maturing Exotic conifer.
DBH: 112,52cm. HxW (m): 14 x 16. Health: Fair. Structure: Fair to Poor. Arb. Rating: Mod.C. Basal wounds, past branch failure, trunk wounds. Low canopy.. TPZ (rad. m): 14.8. SRZ (rad. m): 3.8. Permit: BS_LL_permit.



Tree ID:362. *Cupressus macrocarpa* (Monterey Cypress), Maturing Exotic conifer.
DBH: 120, 55,51cm. HxW (m): 16 x 15. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. . TPZ (rad. m): 15. SRZ (rad. m): 4.1. Permit: BS_LL_permit.



Tree ID:363. *Eucalyptus sideroxylon* (Red Ironbark), Semi-mature Australian native.
DBH: 35cm. HxW (m): 10 x 6. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. . TPZ (rad. m): 4.2. SRZ (rad. m): 2.3. Permit: BS_Undersize.



Tree ID:364. *Melaleuca armillaris* (Bracelet Honey-myrtle), Maturing Victorian native.
DBH: 38,26,25,12cm. HxW (m): 7 x 8. Health: Fair. Structure: Poor. Arb. Rating: Low. Active split.. TPZ (rad. m): 6.4. SRZ (rad. m): 2.9. Permit: BS_LL_permit.



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Tree ID:365. *Melaleuca armillaris* (Bracelet Honey-myrtle), Semi-mature Victorian native.
DBH: 30,28,25,17,13cm. HxW (m): 6 x 8. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. . TPZ (rad. m): 6.3. SRZ (rad. m): 2.9. Permit: BS_LL_permit.



Tree ID:366. *Melaleuca armillaris* (Bracelet Honey-myrtle), Maturing Victorian native.
DBH: 57,46cm. HxW (m): 6 x 8. Health: Fair. Structure: Fair to Poor. Arb. Rating: Mod.C. . TPZ (rad. m): 8.8. SRZ (rad. m): 2.9. Permit: BS_LL_permit.



Tree ID:367. *Melaleuca armillaris* (Bracelet Honey-myrtle), Maturing Victorian native.
DBH: 26,17cm. HxW (m): 5 x 8. Health: Fair to Poor. Structure: Poor. Arb. Rating: Low. Leaning trunk.. TPZ (rad. m): 3.7. SRZ (rad. m): 2.3. Permit: BS_Undersize.



Tree ID:368. *Melaleuca armillaris* (Bracelet Honey-myrtle), Maturing Victorian native.
DBH: 65,30cm. HxW (m): 6 x 10. Health: Fair. Structure: Fair to Poor. Arb. Rating: Mod.C. . TPZ (rad. m): 8.6. SRZ (rad. m): 2.9. Permit: BS_LL_permit.



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Tree ID:369. *Melaleuca armillaris* (Bracelet Honey-myrtle), Early-mature Victorian native.
DBH: 30cm. HxW (m): 6 x 8. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. . TPZ (rad. m): 3.6. SRZ (rad. m): 2.3. Permit: BS_Undersize.



Tree ID:370. *Albizia julibrissin* (Silk Tree), Semi-mature Exotic deciduous.
DBH: 6,5cm. HxW (m): 2 x 3. Health: Fair. Structure: Fair to Poor. Arb. Rating: Low. Woody weed sp. TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: BS_Undersize.



Tree ID:371. *Fraxinus angustifolia subsp. angustifolia* (Desert Ash), Maturing Exotic deciduous.
DBH: 16,15,14,13,12 (est.)cm. HxW (m): 7 x 8. Health: Fair. Structure: Poor. Arb. Rating: Low. Multi-stemmed, stump re-sprout, woody weed sp. Remove to cut stump. TPZ (rad. m): 3.8. SRZ (rad. m): 2.6. Permit: BS_LL_permit.



Tree ID:372. *Phoenix canariensis* (Canary Island Date Palm), Early-mature Exotic palm.
DBH: 45 (est.)cm. HxW (m): 7 x 6. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. Observed from afar. IMG_2265_JPG.. TPZ (rad. m): 4. SRZ (rad. m): 2.5. Permit: BS_Undersize.



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Tree ID:373. *Fraxinus angustifolia subsp. angustifolia* (Desert Ash), Maturing Exotic deciduous.
DBH: 38,36 (est.)cm. HxW (m): 10 x 10. Health: Fair. Structure: Fair to Poor. Arb. Rating: Very Low. Woody weed sp. TPZ (rad. m): 6.3. SRZ (rad. m): 2.8. Permit: BS_LL_permit.



Tree ID:374. *Fraxinus angustifolia subsp. angustifolia* (Desert Ash), Semi-mature Exotic deciduous.
DBH: 8,4cm. HxW (m): 4 x 2. Health: Fair. Structure: Poor. Arb. Rating: Very Low. Suckering, woody weed sp. TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: BS_Undersize.



Tree ID:375. *Fraxinus angustifolia subsp. angustifolia* (Desert Ash), Semi-mature Exotic deciduous.
DBH: 10,8,8,6,5cm. HxW (m): 4 x 3. Health: Fair. Structure: Poor. Arb. Rating: Very Low. Suckering, woody weed sp. TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: BS_Undersize.



Tree ID:376. *Melaleuca armillaris* (Bracelet Honey-myrtle), Over-mature Victorian native.
DBH: 60cm. HxW (m): 5 x 8. Health: Fair. Structure: Poor. Arb. Rating: Low. Collapsing, subsiding limbs.. TPZ (rad. m): 7.2. SRZ (rad. m): 2.8. Permit: BS_LL_permit.



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Tree ID:377. *Allocasuarina verticillata* (Drooping She-oak), Young Indigenous (Planted).
DBH: 4cm. HxW (m): 3 x 1. Health: Fair. Structure: Fair to Poor. Arb. Rating: Mod.C. Included bark forks.
Formative pruning. TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: BS_Undersize.



Tree ID:378. *Acacia mearnsii* (Late Black Wattle), Semi-mature Indigenous (Planted).
DBH: 9cm. HxW (m): 5 x 4. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. . TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: BS_Undersize.



Tree ID:380. *Lophostemon confertus* (Brush Box), Semi-mature Australian native.
DBH: 13,12,10,10cm. HxW (m): 4 x 5. Health: Fair. Structure: Fair to Poor. Arb. Rating: Low. . TPZ (rad. m): 2.7. SRZ (rad. m): 2.1. Permit: BS_Undersize.



Tree ID:381. *Lophostemon confertus* (Brush Box), Semi-mature Australian native.
DBH: 24cm. HxW (m): 4 x 5. Health: Fair. Structure: Fair to Poor. Arb. Rating: Low. . TPZ (rad. m): 2.9. SRZ (rad. m): 1.9. Permit: BS_Undersize.



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Tree ID:382. *Fraxinus angustifolia* (Narrow-leaved Ash), Young Exotic deciduous.
DBH: 5,5,5cm. HxW (m): 5 x 3. Health: Poor. Structure: Poor. Arb. Rating: Low. . TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: BS_Undersize.



Tree ID:383. *Cupressus macrocarpa* (Monterey Cypress), Early-mature Exotic conifer.
DBH: 30,25 (est.)cm. HxW (m): 10 x 8. Health: Poor. Structure: Poor. Arb. Rating: Low. Tip dieback.. TPZ (rad. m): 4.7. SRZ (rad. m): 2.4. Permit: BS_LL_permit.



Tree ID:384. *Fraxinus angustifolia* (Narrow-leaved Ash), Young Exotic deciduous.
DBH: 5,5cm. HxW (m): 5 x 2. Health: Fair. Structure: Fair. Arb. Rating: Low. . TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: BS_Undersize.



Tree ID:385. *Fraxinus angustifolia* (Narrow-leaved Ash), Young Exotic deciduous.
DBH: 3cm. HxW (m): 4 x 2. Health: Fair. Structure: Fair. Arb. Rating: Low. . TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: BS_Undersize.



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Tree ID:386. *Fraxinus angustifolia* (Narrow-leaved Ash), Young Exotic deciduous.
DBH: 5cm. HxW (m): 4 x 2. Health: Fair. Structure: Fair. Arb. Rating: Low. . TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: BS_Undersize.



Tree ID:387. *Fraxinus angustifolia* (Narrow-leaved Ash), Young Exotic deciduous.
DBH: 5cm. HxW (m): 4 x 2. Health: Fair. Structure: Fair. Arb. Rating: Low. . TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: BS_Undersize.



Tree ID:388. *Fraxinus angustifolia* (Narrow-leaved Ash), Young Exotic deciduous.
DBH: 5cm. HxW (m): 4 x 2. Health: Fair. Structure: Fair. Arb. Rating: Low. . TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: BS_Undersize.



Tree ID:389. *Eucalyptus cladocalyx* (Sugar Gum), Maturing Australian native.
DBH: 141cm. HxW (m): 24 x 18. Health: Fair. Structure: Fair to Poor. Arb. Rating: Mod.B. Crossing branches, past branch failure.. TPZ (rad. m): 15. SRZ (rad. m): 4. Permit: BS_LL_permit.



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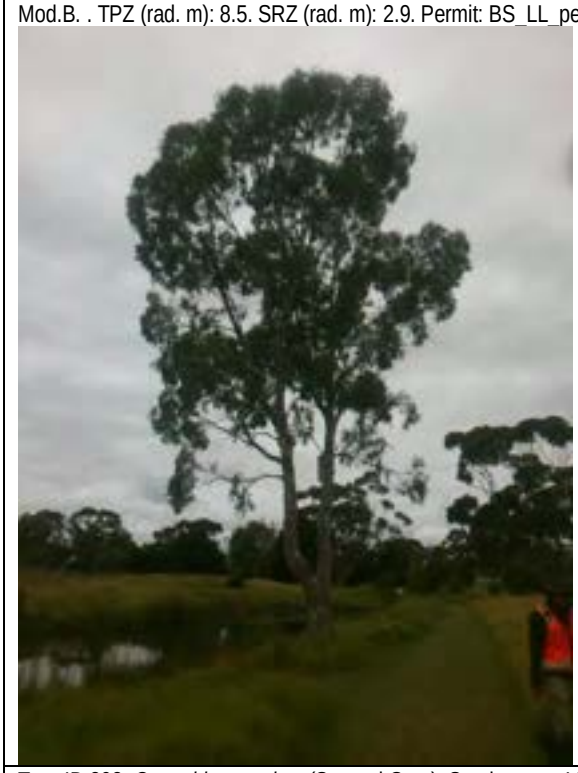
Tree ID:390. *Fraxinus angustifolia* (Narrow-leaved Ash), Young Exotic deciduous.
DBH: 6,5cm. HxW (m): 4 x 2. Health: Fair. Structure: Fair. Arb. Rating: Low. . TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: BS_Undersize.



Tree ID:391. *Callistemon salignus* (Willow Bottlebrush), Young Australian native.
DBH: 3cm. HxW (m): 2 x 1. Health: Fair. Structure: Fair. Arb. Rating: Low. . TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: BS_Undersize.



Tree ID:392. *Eucalyptus camaldulensis* (River Red Gum), Maturing Indigenous (Planted).
DBH: 71cm. HxW (m): 18 x 12. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. . TPZ (rad. m): 8.5. SRZ (rad. m): 2.9. Permit: BS_LL_permit.



Tree ID:393. *Corymbia maculata* (Spotted Gum), Semi-mature Victorian native.
DBH: 44,24cm. HxW (m): 14 x 10. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. . TPZ (rad. m): 6. SRZ (rad. m): 2.6. Permit: BS_LL_permit.



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Tree ID:394. *Corymbia maculata* (Spotted Gum), Semi-mature Victorian native.
DBH: 17cm. HxW (m): 10 x 6. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. . TPZ (rad. m): 2. SRZ (rad. m): 1.7. Permit: BS_Undersize.



Tree ID:395. *Eucalyptus camaldulensis* (River Red Gum), Maturing Indigenous (Planted).
DBH: 77cm. HxW (m): 16 x 12. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. . TPZ (rad. m): 9.2. SRZ (rad. m): 3.2. Permit: BS_LL_permit.



Tree ID:396. *Corymbia maculata* (Spotted Gum), Early-mature Victorian native.
DBH: 41cm. HxW (m): 15 x 11. Health: Fair. Structure: Fair to Poor. Arb. Rating: Mod.C. Included bark forks w compression flaring.
Reduce lesser co-dominant stem. TPZ (rad. m): 4.9. SRZ (rad. m): 2.4. Permit: BS_Undersize.



Tree ID:397. *Corymbia maculata* (Spotted Gum), Semi-mature Victorian native.
DBH: 19cm. HxW (m): 8 x 5. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. Suppressed.. TPZ (rad. m): 2.3. SRZ (rad. m): 1.7. Permit: BS_Undersize.



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Tree ID:398. *Corymbia maculata* (Spotted Gum), Early-mature Victorian native.
DBH: 38cm. HxW (m): 15 x 11. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. . TPZ (rad. m): 4.6. SRZ (rad. m): 2.4. Permit: BS_Undersize.



Tree ID:399. *Corymbia citriodora* (Lemon-scented Gum), Early-mature Australian native.
DBH: 41cm. HxW (m): 15 x 12. Health: Good. Structure: Fair. Arb. Rating: Mod.A. . TPZ (rad. m): 4.9. SRZ (rad. m): 2.4. Permit: BS_Undersize.



Tree ID:400. *Eucalyptus sideroxylon* (Red Ironbark), Early-mature Australian native.
DBH: 40cm. HxW (m): 9 x 6. Health: Fair. Structure: Fair to Poor. Arb. Rating: Mod.C. . TPZ (rad. m): 4.8. SRZ (rad. m): 2.3. Permit: BS_Undersize.



Tree ID:401. *Corymbia maculata* (Spotted Gum), Early-mature Victorian native.
DBH: 49cm. HxW (m): 15 x 9. Health: Fair. Structure: Fair to Poor. Arb. Rating: Mod.B. Co-dominant stems w compression flaring.. TPZ (rad. m): 5.9. SRZ (rad. m): 2.5. Permit: BS_LL_permit.



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Tree ID:402. *Eucalyptus leucoxylon 'Rosea'* (Pink-flowered Yellow Gum), Early-mature Australian native.
DBH: 21,16cm. HxW (m): 5 x 6. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. Acute forks.. TPZ (rad. m): 3.2. SRZ (rad. m): 2.1. Permit: BS_Undersize.



Tree ID:403. *Corymbia ficifolia* (Red-flowering Gum), Semi-mature Australian native.
DBH: 23cm. HxW (m): 6 x 4. Health: Fair to Poor. Structure: Fair to Poor. Arb. Rating: Mod.C. . TPZ (rad. m): 2.8. SRZ (rad. m): 1.8. Permit: BS_Undersize.



Tree ID:404. *Eucalyptus kitsoniana* (Gippsland Mallee), Semi-mature Victorian native.
DBH: 28,10,8cm. HxW (m): 8 x 5. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. . TPZ (rad. m): 3.6. SRZ (rad. m): 2.1. Permit: BS_Undersize.



Tree ID:405. *Eucalyptus cladocalyx* (Sugar Gum), Maturing Australian native.
DBH: 165,75cm. HxW (m): 11 x 19. Health: Fair. Structure: Fair to Poor. Arb. Rating: Mod.C. Past limb failure, trunk wounds. Past stem removal & crown reduction.. TPZ (rad. m): 15. SRZ (rad. m): 4.2. Permit: BS_LL_permit.



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Tree ID:406. *Eucalyptus camaldulensis* (River Red Gum), Young Indigenous (Planted).
DBH: 10,6cm. HxW (m): 5 x 5. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. . TPZ (rad. m): 2. SRZ (rad. m): 1.7. Permit: BS_Undersize.



Tree ID:412. *Eucalyptus camaldulensis* (River Red Gum), Early-mature Indigenous (Planted).
DBH: 21 (est.)cm. HxW (m): 10 x 7. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. . TPZ (rad. m): 2.5. SRZ (rad. m): 2. Permit: BS_Undersize.



Tree ID:411. *Eucalyptus camaldulensis* (River Red Gum), Semi-mature Indigenous (Planted).
DBH: 12cm. HxW (m): 5 x 4. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. . TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: BS_Undersize.



Tree ID:414. *Platanus Xacerifolia* (London Plane), Maturing Exotic deciduous.
DBH: 95cm. HxW (m): 16 x 15. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. Street tree. limited growing space, abutting BoK.Crown bias-East.
TPZ (rad. m): 11.4. SRZ (rad. m): 3.3. Permit: PP_LL_permit.



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Tree ID:G1. *Acacia longifolia var. sophorae, Correa alba, Leptospermum laevigatum* (Coast Wattle, White Correa, Coast Tea-tree), Early-mature Indigenous (Planted).
DBH: 10 (est.)cm. HxW (m): 3 x 3. Health: Fair. Structure: Fair to Poor. Arb. Rating: Mod.C. Group of ~10 trees. Sprawling garden bed.. TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: VPO1.



Tree ID:G2. *Leptospermum laevigatum, Myoporum insulare, Westringia glabra* (Coast Tea-tree, Boobialla, Violet Westringia), Early-mature Indigenous (Planted).
DBH: 10 (est.)cm. HxW (m): 3 to 5 x 3 to 5. Health: Fair. Structure: Fair to Poor. Arb. Rating: Mod.C. Group of ~10 trees. . TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: VPO1.



Tree ID:G3. *Leptospermum laevigatum, Westringia glabra* (Coast Tea-tree, Violet Westringia), Early-mature Indigenous (Planted).
DBH: 10 (est.)cm. HxW (m): 3 to 5 x 3 to 5. Health: Fair. Structure: Fair to Poor. Arb. Rating: Mod.C. Group of ~10 trees. Vine infested.. TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: VPO1.



Tree ID:G5. *Euonymus japonicus, Euonymus japonicus 'Aureomarginatus'* (Spindle Tree, Golden Variegated Spindle Tree), Early-mature Exotic evergreen, Exotic evergreen.
DBH: 10 (est.)cm. HxW (m): 2 to 3 x 3 to 5. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. Group of 4 Shrubs.. TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: PP_Undersize.



Tree ID:G4. *Tecomaria capensis* (Cape Honeysuckle), Maturing Exotic evergreen.
DBH: 9 (multi-stem)cm. HxW (m): 2 to 3 x 5 to 8. Health: Fair. Structure: Fair. Arb. Rating: Low. Group of Suckering. Vines.. TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: PP_Undersize.



Tree ID:G6. *Lagerstroemia indica* (Crape Myrtle), Early-mature Exotic deciduous.
DBH: 12 (multi-stem)cm. HxW (m): 4 x 5. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. Group of 9 trees. Arranged in circle 1.2m apart.. TPZ (rad. m): 2. SRZ (rad. m): 1.8. Permit: PP_Undersize.



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Tree ID:G7. *Juniperus chinensis* (Chinese Juniper), Early-mature Exotic conifer.
DBH: 7cm. HxW (m): 2 x 1. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. Group of 6 clipped trees. . TPZ (rad. m): 2. SRZ (rad. m): 1.6. Permit: BS_Undersize.



Tree ID:G8. *Acacia implexa, Acacia paradoxa, Bursaria spinosa, Eucalyptus camaldulensis, Myoporum insulare* (Lightwood, Hedge Wattle, Sweet Bursaria, River Red Gum, Boobialla), Semi-mature Indigenous (Planted).
DBH: 10 (multi-stem)cm. HxW (m): 2 to 5 x 3 to 5. Health: Fair. Structure: Fair to Poor. Arb. Rating: Mod.C. Group of ~50 trees. . TPZ (rad. m): 2. SRZ (rad. m): 1.6. Permit: BS_Undersize.



Tree ID:G12. *Eucalyptus camaldulensis* (River Red Gum), Young Indigenous.
DBH: 9cm. HxW (m): 3 to 6 x 1 to 2. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. Group of ~11 trees. Natural recruitment.. TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: BS_Undersize.



Tree ID:G9. *Acacia implexa, Bursaria spinosa, Correa alba* (Lightwood, Sweet Bursaria, White Correa), Semi-mature Indigenous (Planted).
DBH: 5cm. HxW (m): 1 to 3 x 1 to 3. Health: Fair. Structure: Fair to Poor. Arb. Rating: Mod.C. Group of ~15 trees. . TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: BS_Undersize.



Tree ID:G10. *Acacia implexa, Acacia melanoxylon, Acacia paradoxa, Correa alba, Correa reflexa, Eucalyptus melliodora* (Lightwood, Blackwood, Hedge Wattle, White Correa, Common Correa), Semi-mature Indigenous (Planted).
DBH: 2cm. HxW (m): 1 to 3 x 1 to 3. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. Group of ~20 trees. Understorey & groundcovers.. TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: BS_Undersize.



Tree ID:G11. *Acacia paradoxa, Correa alba, Eucalyptus camaldulensis, Eucalyptus melliodora, Westringia glabra* (Hedge Wattle, White Correa, River Red Gum, Yellow Box, Violet Westringia), Semi-mature Indigenous (Planted), Victorian native.
DBH: 6cm. HxW (m): 1 to 3 x 1 to 3. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. Group of ~15 trees. . TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: BS_Undersize.



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Tree ID:G13. *Acacia paradoxa* (Hedge Wattle), Early-mature Victorian native.
DBH: 3cm. HxW (m): 1 to 2 x 2 to 3. Health: Fair. Structure: Fair. Arb. Rating: Low. Group of ~16 prickly shrubs.. TPZ (rad. m): 2. SRZ (rad. m): 3.1. Permit: BS_Undersize.



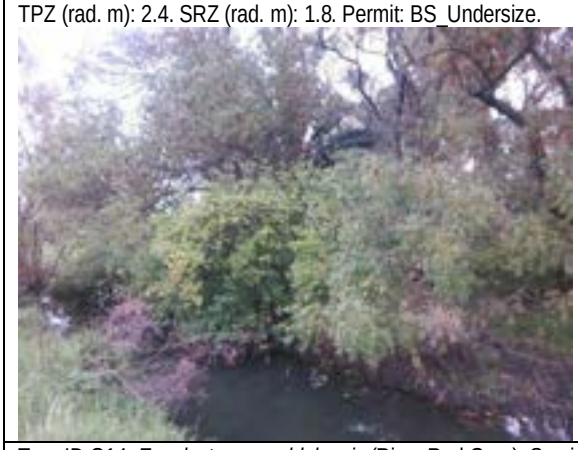
Tree ID:G16. *Fraxinus angustifolia subsp. angustifolia* (Desert Ash), Semi-mature Exotic deciduous.
DBH: 9cm. HxW (m): 3 x 1. Health: Fair. Structure: Fair to Poor. Arb. Rating: Very Low. Group of ~7 trees. Suckering, woody weed sp
Remove & poison cut stumps. TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: BS_Undersize.



Tree ID:G17. *Cupressus macrocarpa* (Monterey Cypress), Maturing Exotic conifer.
DBH: 60,50,45cm. HxW (m): 13 x 14. Health: Fair to Poor. Structure: Fair to Poor. Arb. Rating: Low. Group of ~7 trees. Minor dieback, subsiding limbs.. TPZ (rad. m): 10.8. SRZ (rad. m): 3.6. Permit: BS_LL_permit.



Tree ID:G18. *Coprosma repens, Fraxinus angustifolia subsp. angustifolia* (Mirror Bush, Desert Ash), Early-mature Exotic evergreen, Exotic deciduous.
DBH: 20cm. HxW (m): 3 to 10 x 3 to 10. Health: Fair to Poor. Structure: Poor. Arb. Rating: Very Low. Group of ~15 trees. Suckering, woody weed sp.
TPZ (rad. m): 2.4. SRZ (rad. m): 1.8. Permit: BS_Undersize.



Tree ID:G14. *Eucalyptus camaldulensis* (River Red Gum), Semi-mature Indigenous (Planted).
DBH: 12cm. HxW (m): 7 x 3. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. Group of ~3 trees. . TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: BS_Undersize.



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Appendix 3: Arboricultural Descriptors (June 2017)

Note that not all of the described tree descriptors may be used in a tree assessment and report. The assessment is undertaken with regard to contemporary arboricultural practices and consists of a visual inspection of external and above-ground tree parts.

1. Tree Condition

The assessment of tree condition evaluates factors of health and structure. The descriptors of health and structure attributed to a tree evaluate the individual specimen to what could be considered typical for that species growing in its location under current climatic conditions. For example, some species can display inherently poor branching architecture, such as multiple acute branch attachments with included bark. Whilst these structural defects may technically be considered arboriculturally poor, they are typical for the species and may not constitute an increased risk of failure. These trees may be assigned a structural rating of fair-poor (rather than poor) at the discretion of the assessor.

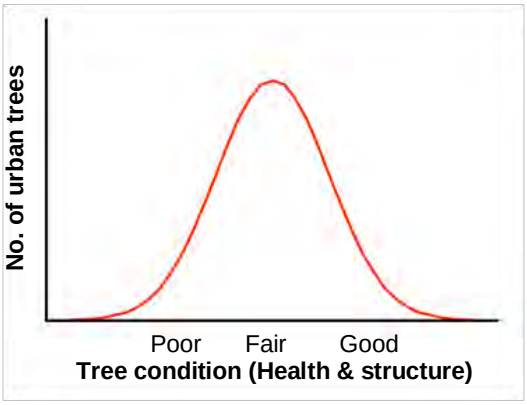


Diagram 1: Indicative normal distribution curve for tree condition

Diagram 1, provides an indicative distribution curve for tree condition to illustrate that within a normal tree population the majority of specimens are centrally located within the condition range (normal distribution curve). Furthermore, that those individual trees with an assessed condition approaching the outer ends of the spectrum occur less often.

2. Tree Name

Provides botanical name, (genus, species, variety and cultivar) according to accepted international code of taxonomic classification, and common name.

3. Tree Type

Describes the general geographic origin of the species and its type e.g. deciduous or evergreen.

Category	Description
Indigenous	Occurs naturally in the area or region of the subject site. Remnant.
Victorian native	Occurs naturally within some part of the State of Victoria (not exclusively) but is not indigenous (component of EVC benchmark). Could be planted indigenous trees.
Australian native	Occurs naturally within Australia but is not a Victorian native or indigenous
Exotic deciduous	Occurs outside of Australia and typically sheds its leaves during winter
Exotic evergreen	Occurs outside of Australia and typically holds its leaves all year round
Exotic conifer	Occurs outside of Australia and is classified as a gymnosperm
Native conifer	Occurs naturally within Australia and is classified as a gymnosperm
Native Palm	Occurs naturally within Australia. Woody monocotyledon
Exotic Palm	Occurs outside of Australia. Woody monocotyledon

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4. Height and Width

Indicates height and width of the individual tree; dimensions are expressed in metres. Crown heights are measured with a height meter where possible. Due to the topography of some sites and/or the density of vegetation it may not be possible to do this for every tree. Tree heights may be estimated in line with previous height meter readings in conjunction with assessor's experience. Crown widths are generally paced (estimated) at the widest axis or can be measured on two axes and averaged. In some instances the crown width can be measured on the four cardinal direction points (North, South, East and West).

Crown height, crown spread are generally recorded to the nearest half metre (crown spread would be rounded up) for dimensions up to 10 m and the nearest whole metre for dimensions over 10 m. Estimated dimensions (e.g. for off-site or otherwise inaccessible trees where accurate data cannot be recovered) shall be clearly identified in the assessment data.

5. Trunk diameters

The position where trunk diameters are captured may vary dependent on the requirements of the specific assessment and an individual trees specific characteristics. DBH is the typical trunk diameter captured as it relates to the allocation of tree protection distances. The basal trunk diameter assists in the allocation of a structural root zone. Some municipalities require trunk diameters be captured at different heights, with 1.0 m above grade being a common requirement. The specific planning schemes will be checked to ascertain requirements.

Stem diameters shall be recorded in centimetres, rounded to the nearest 1 cm (0.01 m).

Diameter at Breast Height (DBH)

Indicates the trunk diameter (expressed in centimetres) of an individual tree measured at 1.4m above the existing ground level or where otherwise indicated, multiple leaders are measured individually. Plants with multiple leader habit may be measured at the base. The range of methods to suit particular trunk shapes, configurations and site conditions can be seen in Appendix A of Australian Standard *AS 4970-2009 Protection of trees on development site*s. Measurements undertaken using foresters tape or builders tape.

Basal trunk diameter

The basal dimension is the trunk diameter measured at the base of the trunk or main stem(s) immediately above the root buttress. Used to ascertain the Structural Root Zone (SRZ) as outlined in AS4970.

6. Age class

Relates to the physiological stage of the tree's life cycle.

Category	Description
Young	Sapling tree and/or recently planted. Approximately 5 or less years in location.
Semi-mature	Tree increasing in size and yet to achieve expected size in situation. Primary developmental stage.
Early-mature	Tree established, generally growing vigorously. > 50% of attainable age/size.
Mature	Specimen approaching expected size in situation, with reduced incremental growth.
Over-mature	Mature full-size with a retrenching crown. Tree is senescent and in decline. Significant decay generally present.

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7. Health

Assesses various attributes to describe the overall health and vigour of the tree.

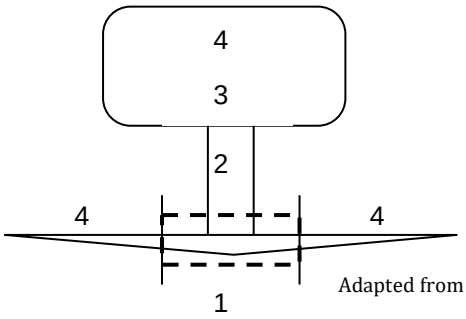
Health Category	Vigour, Extension growth	Decline symptoms, Deadwood, Dieback	Foliage density, colour, size, intactness	Pests and or disease
Good	Above typical. Excellent. Full canopy density	Negligible	Better than typical	Negligible
Fair	Typical vigour. >80% canopy density	Minor or expected. Little or no dead wood	Typical. Minor deficiencies or defects could be present.	Minor, within damage thresholds
Fair to Poor	Below typical - low vigour	More than typical. Small sub-branch dieback	Exhibiting deficiencies. Could be thinning, or smaller	Exceeds damage thresholds
Poor	Minimal - declining	Excessive, large and/or prominent amount & size of dead wood	Exhibiting severe deficiencies. Thinning foliage, generally smaller or deformed	Extreme and contributing to decline
Dead	N/A	N/A	N/A	N/A

8. Structure

Assesses principal components of tree structure (Diagram 2).
Structure ratings will also take into account general branching architecture, stem taper, live crown ratio, crown symmetry (bias or lean) and crown position such as tree being suppressed amongst more dominant trees.

Diagram 2: Tree structure zones

1. Root plate & lower stem
2. Trunk
3. Primary branch support
4. Outer crown & roots



Adapted from Coder (1996)

The lowest or worst descriptor assigned to the tree in any column could generally be the overall rating assigned to the tree. The assessment for structure is limited to observations of external and above ground tree parts. It does not include any exploratory assessment of underground or internal tree parts unless this is requested as part of the investigation. Trees are assessed and then given a rating for a point in time. Generally, trees with a poor or very poor structure are beyond the benefit of practical arboricultural treatments.

The management of trees in the urban environment requires appropriate arboricultural input and consideration of risk. Risk potential will take into account the combination of likelihood of failure and impact, including the perceived importance of the target(s). See table over page.

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Structure Category	Zone 1 - Root plate & lower stem	Zone 2 - Trunk	Zone 3 - Primary branch support	Zone 4 - Outer crown and roots
Good	No obvious damage, disease or decay; obvious basal flare / stable in ground	No obvious damage, disease or decay; well tapered	Well formed, attached, spaced and tapered. No history of failure.	No obvious damage, disease, decay or structural defect. No history of failure.
Fair	Minor damage or decay. Basal flare present.	Minor damage or decay	Generally well attached, spaced and tapered branches. Minor structural deficiencies may be present or developing. No history of branch failure.	Minor damage, disease or decay; minor branch end-weight or over-extension. No history of branch failure.
Fair to Poor	Moderate damage or decay; minimal basal flare.	Moderate damage or decay; approaching recognised thresholds	Weak, decayed or with acute branch attachments; previous branch failure evidence.	Moderate damage, disease or decay; moderate branch end-weight or over-extension. Minor branch failure evident.
Poor	Major damage, disease or decay; fungal fruiting bodies present. Excessive lean placing pressure on root plate	Major damage, disease or decay; exceeds recognised thresholds; fungal fruiting bodies present. Acute lean. Stump re-sprout	Decayed, cavities or has acute branch attachments with included bark; excessive compression flaring; failure likely. Evidence of major branch failure.	Major damage, disease or decay; fungal fruiting bodies present; major branch end-weight or over-extension. Branch failure evident.
Very Poor	Excessive damage, disease or decay; unstable / loose in ground; altered exposure; failure probable	Excessive damage, disease or decay; cavities. Excessive lean. Stump re-sprout	Decayed, cavities or branch attachments with active split; failure imminent. History of major branch failure.	Excessive damage, disease or decay; excessive branch end-weight or over-extension. History of branch failure.

Useful life expectancy

Assessment of useful life expectancy provides an indication of health and tree appropriateness and involves an estimate of how long a tree is likely to remain in the landscape based on species, stage of life (cycle), health, amenity, environmental services contribution, conflicts with adjacent infrastructure and risk to the community. It would enable tree managers to develop long-term plans for the eventual removal and replacement of existing trees in the public realm. It is not a measure of the biological life of the tree within the natural range of the species. It is more a measure of the health status and the trees positive contribution to the urban landscape.

Within an urban landscape context, particularly in relation to street trees, it could be considered a point where the costs to maintain the asset (tree) outweigh the benefits the tree is returning.

The assessment is based on the site conditions not being significantly altered and that any prescribed maintenance works are carried out (site conditions are presumed to remain relatively constant and the tree would be maintained under scheduled maintenance programs). See table over page.

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Useful Life Expectancy category	Typical characteristics
<1 year (No remaining ULE)	Tree may be dead or mostly dead. Tree may exhibit major structural faults. Tree may be an imminent failure hazard. Excessive infrastructure damage with high risk potential that cannot be remedied.
1-5 years (Transitory, Brief)	Tree is exhibiting severe chronic decline. Crown is likely to be less than 50% typical density. Crown may be mostly epicormic growth. Dieback of large limbs is common (large deadwood may have been pruned out). Tree may be over-mature and senescing. Infrastructure conflicts with heightened risk potential. Tree has outgrown site constraints.
6-10 years (Short)	Tree is exhibiting chronic decline. Crown density will be less than typical and epicormic growth is likely to present. The crown may still be mostly entire, but some dieback is likely to be evident. Dieback may include large limbs. Over-mature and senescing or early decline symptoms in short-lived species. Early infrastructure conflicts with potential to increase regardless of management inputs.
11-20 years (Moderate)	Tree not showing symptoms of chronic decline, but growth characteristics are likely to be reduced (bud development, extension growth etc.). Tree may be over-mature and beginning to senesce. Potential for infrastructure conflicts regardless of management inputs.
21-40 years (Moderately long)	Trees displaying normal growth characteristics but vigour is likely to be reduced (bud development, extension growth etc.). Tree may be growing in restricted environment (e.g. streetscapes) or may be in late maturity. Semi-mature and mature trees exhibiting normal growth characteristics. Juvenile trees in streetscapes.
>40 years (Long)	Generally juvenile and semi-mature trees exhibiting normal growth characteristics within adequate spaces to sustain growth, such as in parks or open space. Could also pertain to maturing, long-lived trees. Tree well suited to the site with negligible potential for infrastructure conflicts.

Note that ULE may change for a tree dependent on the prevailing climatic conditions, which can either increase or decrease, or sudden changes to a tree's growing environment creating an acute stress.

The ULE may not be applicable for trees that are manipulated, such as topiary, or grown for specific horticultural purposes, such as fruit trees.

There may be instances where remedial tree maintenance could be extend a tree's ULE.

9. Arboricultural Rating

Relates to the combination of tree condition factors, including health and structure (arboricultural merit), and also conveys an amenity value. Amenity relates to the trees biological, functional and aesthetic characteristics (Hitchmough 1994) within an urban landscape context. The presence of any serious disease or tree-related hazards that would impact risk potential are taken into account. See table over page.

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Arboricultural rating Category	Description
High	Tree of high quality in good to fair condition; good vigour. Generally a prominent arboricultural/landscape feature. Particularly good example of the species; rare or uncommon. Tree may have significant conservation or other cultural value. These trees have the potential to be a medium- to long-term components of the landscape (moderately long to long ULE) if managed appropriately. Retention of these trees is highly desirable.
Moderate	*General* - Tree of moderate quality, in fair or better condition. Tree may have a condition, and or structural problem that will respond to arboricultural treatment. These trees have the potential to be a moderate- to long-term component of the landscape (moderate to long ULE) if managed appropriately. Retention of these trees is generally desirable. The following sub-categories relate predominately to age and size and amenity.
	A. Moderate to large, maturing tree. Contributes to the landscape character. Tree may have conservation or other cultural value.
	B. Moderate sized, established tree, > 50% of attainable age/size. Contributes to the landscape character. Maturing tree with amenity value but with identified deficiencies
	C. Small and/or semi-mature tree, established, >5 years in the location. May not be a dominant canopy. No special qualities. Maturing tree, accumulating deficiencies, trending towards being of Low arboricultural value.
Low	Unremarkable tree of low quality or little amenity value. Tree in either poor health or with poor structure or a combination. Short to transitory useful life expectancy. Tree is not significant because of either its size or age, such as young trees with a stem diameter below 15 cm. Trees regularly pruned to restrict size. These trees are easily replaceable. Tree (species) is functionally inappropriate to specific location and would be expected to be problematic if retained. Retention of such trees may be considered if not requiring a disproportionate expenditure of resources for a tree in its condition and location.
None	Trees of low quality with an estimated remaining life expectancy of less than 5 years. Tree has either a severe structural defect or health problem or combination that cannot be sustained with practical arboricultural techniques and the loss of the tree would be expected in the short term. Trees that are dead or are showing signs of significant, immediate, and irreversible overall decline. Tree infected with pathogens of significance to either the health or safety of the tree or other adjacent trees. Tree whose retention would not be viable after the removal of adjacent trees (includes trees that have developed in close spaced groups and would not be expected to acclimatise to severe alterations to surrounding environment – removal of adjacent shelter trees). Tree has a detrimental effect on the environment, for example, the tree is a recognised environmental woody weed with potential to spread into waterways or natural areas. Unremarkable tree of no material landscape, conservation or other cultural value.

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Trees have many values, not all of which are considered when an arboricultural assessment is undertaken. However, individual trees or tree group features may be considered important community resources because of unique or noteworthy characteristics or values other than their age, dimensions, health or structural condition. Recognition of one or more of the following criterion is designed to highlight other considerations that may influence the future management of such trees.

Significance	Description
Horticultural Value/ Rarity	Outstanding horticultural or genetic value; could be an important source of propagating stock, including specimens that are particularly resistant to disease or exposure. Any tree of a species or variety that is rare.
Historic, Aboriginal Cultural or Heritage Value	Tree could have value as a remnant of a particular important historical period or a remnant of a site or activity no longer in action. Tree has a recognised association with historic aboriginal activities, including scar trees. Tree commemorates a particular occasion, including plantings by notable people, or having associations with an important event in local history.
Ecological Value	Tree could have value as habitat for indigenous wildlife, including providing breeding, foraging or roosting habitat, or is a component of a wildlife reserve. Remnant Indigenous vegetation that contribute to biological diversity

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Appendix 4: Tree protection zones

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Introduction

In order to sustain trees on a development site consideration must be given to the establishment of tree protection zones.

The physical dimensions of tree protection zones can sometimes be difficult to define. The projection of a tree's crown can provide a guide but is by no means the definitive measure. The unpredictable nature of roots and their growth, differences between species and their tolerances, and observable and hidden changes to the trees growing environment, as a result of development, are variables that must be considered.

Most vigorous, broad canopied trees survive well if the area within the drip-line of the canopy is protected. Fine root density is usually greater beneath the canopy than beyond (Gilman, 1997). If few to no roots over 3cm in diameter are encountered and severed during excavation the tree will probably tolerate the impact and root loss. A healthy tree can sustain a loss of between 30% and 50% of absorbing roots (Harris, Clark, Matheny, 1999), however encroachment into the structural root system of a tree may be problematic.

The structural root system of a tree is responsible for ensuring the stability of the entire tree structure in the ground. A tree could not sustain loss of structural root system and be expected to survive let alone stand up to average annual wind loads upon the crown.

Allocation of tree protection zone (TPZ)

The method of allocating a TPZ to a particular tree will be influenced by site factors, the tree species, its age and developed form.

Once it has been established, through an arboricultural assessment, which trees and tree groups are to be retained, the next step will require careful management through the development process to minimise any impacts on the designated trees. The successful retention of trees on any particular site will require the commitment and understanding of all parties involved in the development process. The most important activity, after determining the trees that will be retained is the implementation of a TPZ.

The intention of tree protection zones is to:

- mitigate tree hazards;
- provide adequate root space to sustain the health and aesthetics of the tree into the future;
- minimise changes to the trees growing environment, which is particularly important for mature specimens;
- minimise physical damage to the root system, canopy and trunk; and
- define the physical alignment of the tree protection fencing

Tree protection

The most important consideration for the successful retention of trees is to allow appropriate above and below ground space for the trees to continue to grow. This requires the allocation of tree protection zones for retained trees.

The Australian Standard AS 4970-2009 Protection of trees on development sites has been used as a guide in the allocation of TPZs for the assessed trees.

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The TPZ for individual trees is calculated based on trunk (stem) diameter (DBH), measured at 1.4 metres up from ground level. The radius of the TPZ is calculated by multiplying the trees DBH by 12. The method provides a TPZ that addresses both the stability and growing requirements of a tree. TPZ distances are measured as a radius from the centre of the trunk at (or near) ground level. The minimum TPZ should be no less than 2m and the maximum no more than 15m radius. The TPZ of palms should be not less than 1.0m outside the crown projection.

Encroachment into the TPZ is permissible under certain circumstances though is dependent on both site conditions and tree characteristics. Minor encroachment, up to 10% of the TPZ, is generally permissible provided encroachment is compensated for by recruitment of an equal area contiguous with the TPZ. Examples are provided in Diagram 1. Encroachment greater than 10% is considered major encroachment under AS4970-2009 and is only permissible if it can be demonstrated that after such encroachment the tree would remain viable.

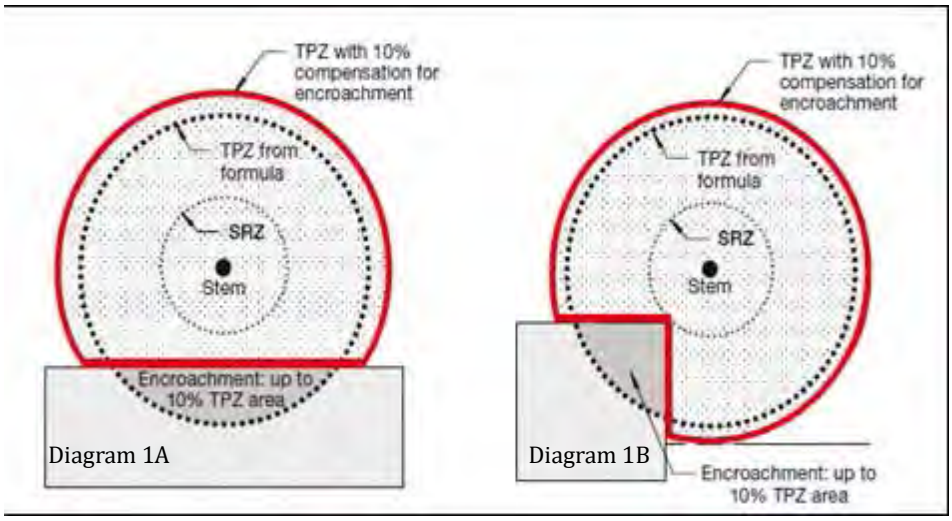


Diagram 1: Examples of minor encroachment into a TPZ.

(Extract from: AS4970-2009, Appendix D, p30 of 32)

The 10% encroachment on one side equates to approximately ⅓ radial distance. Tree root growth is opportunistic and occurs where the essentials to life (primarily air and water) are present. Heterogeneous soil conditions, existing barriers, hard surfaces and buildings may have inhibited the development of a symmetrically radiating root system.

Existing infrastructure around some trees may be within the TPZ or root plate radius. The roots of some trees may have grown in response to the site conditions and therefore if existing hard surfaces and building alignments are utilised in new designs the impacts on the trees should be minimal. The most reliable way to estimate root disturbance is to find out where the roots are in relation to the demolition, excavation or construction works that will take place (Matheny & Clark, 1998). Exploratory excavation prior to commencement of construction can help establish the extent of the root system and where it may be appropriate to excavate or build.

The TPZ should also give consideration to the canopy and overall form of the tree. If the canopy requires severe pruning in order to accommodate a building and in the process the form of the tree is diminished it may be worthwhile considering altering the design or removing the tree.

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General tree protection guidelines

The most important factors are:

- Prior to construction works the trees nominated for tree works should be pruned to remove larger dead wood. Pruning works may also identify other tree hazards that require remedial works.
- Installation of tree protection fencing. Once the tree protection zones have been determined the next step is to mulch the zone with woodchip and erect tree protection fencing. This must be completed prior to any materials being brought on-site, erection of temporary site facilities or demolition/earth works. The protection fencing must be sturdy and withstand winds and construction impacts. The protection fence should only be moved with approval of the site supervisor. Other root zone protection methods can be incorporated if the TPZ area needs to be traversed.
- Appropriate signage is to be fixed to the fencing to alert people as to importance of the tree protection zone.
- The importance of tree preservation must be communicated to all relevant parties involved with the site.
- Inspection of trees during excavation works.

Exploratory excavation

The most reliable way to estimate root disturbance is to find out where the roots are in relation to the demolition, excavation or construction works that will take place (Matheny & Clark, 1998).

Exploratory excavation prior to commencement of construction can help establish the extent of the root system and where it may be appropriate to excavate or build. This also allows management decisions to be made and allows time for redesign works if required.

Any exploratory excavation within the allocated TPZ is to be undertaken with due care of the roots. Minor exploration is possible with hand tools. More extensive exploration may require the use of high pressure water or air excavation techniques. Either hydraulic or pneumatic excavation techniques will safely expose tree roots; both have specific benefits dependent on the situation and soil type. An arborist is to be consulted on which system is best suited for the site conditions.

Substantial roots are to be exposed and left intact.

Once roots are exposed decisions can be made regarding the management of the tree. Decisions will be dependent on the tree species, its condition, its age, its relative tolerance to root loss, and the amount of root system exposed and requiring pruning.

Other alternative measures to encroaching the TPZ may include boring or tunnelling.

How to determine the diameter of a substantial root

The size of a substantial root will vary according to the distance of the exposed root to the trunk of the tree. The further away from the trunk of a tree that a root is, the less significant the root is likely to be to the tree's health and stability.

The determination of what is a substantial root is often difficult because the form, depth and spread of roots will vary between species and sites. However, because smaller roots are connected to larger roots in a framework, there can be no doubt that if larger roots are severed, the smaller roots attached to them will die. Therefore, the larger the root, the more significant it may be.

Gilman (1997) suggests that trees may contain 4-11 major lateral roots and that the five largest lateral roots account (act as a conduit) for 75% of the total root system.

These large lateral roots quickly taper within a distance to the tree, this distance is identified as the Structural Root Zone (SRZ). Within the SRZ distance, all roots and the soil surrounding the roots are deemed significant.

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No root or soil disturbance is permitted within the SRZ.
In the area outside the SRZ the tree may tolerate the loss of one or a number of roots. The table below indicates the size of tree roots, outside the SRZ that would be deemed substantial for various tree heights. The assessment of combined root loss within the TPZ would need to be undertaken by an arborist on an individual basis because the location of the tree, its condition and environment would need to be assessed.

Table 1: Estimated significant root sizes outside SRZ

Height of tree	Diameter of root
Less than 5m	≥ 30mm
Between 5m - 15m	≥ 50mm
More than 15m	≥ 70mm

Ground buffering

Where works are required to be undertaken within the Tree root zone without penetration of the surface, ground buffering and trunk and limb protection must be provided to minimise the potential for soil to become compacted and avoid potential for impact wounds to occur to surface roots, trunk or limbs. Refer below.

Diagram 2: Examples of ground buffering and trunk and limb protection.

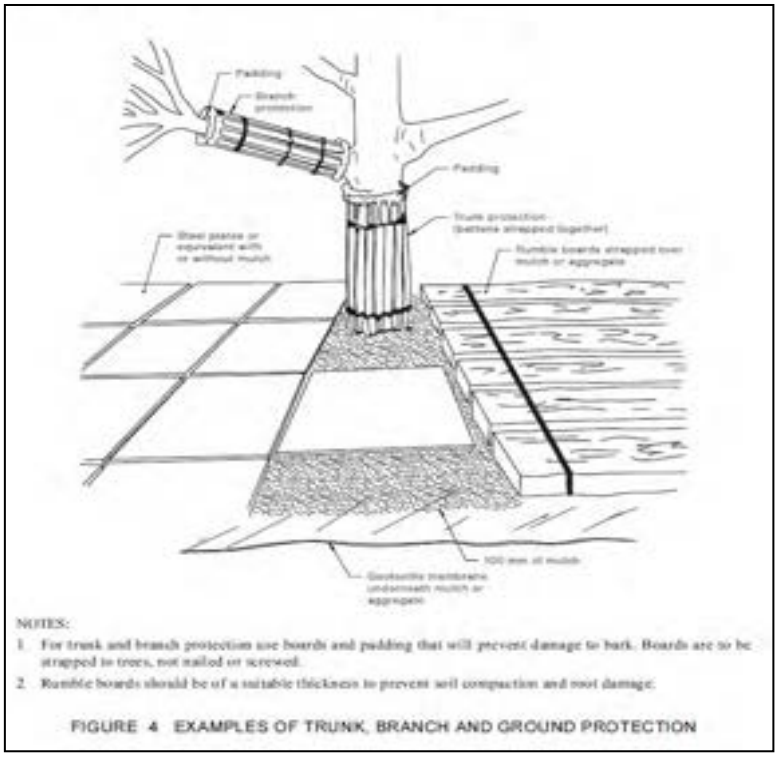


FIGURE 4 EXAMPLES OF TRUNK, BRANCH AND GROUND PROTECTION

(Extract from: AS4970-2009, Appendix D, pg17)

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Construction Guidelines

The following are guidelines that must be implemented to minimise the impact of the proposed construction works on the retained trees.

- The Tree Protection Zone (TPZ) is fenced and clearly marked at all times. The actual fence specifications should be a minimum of 1.2 - 1.5 metres of chain mesh or like fence with 1.8 meter posts (e.g. treated pine or star pickets) or like support every 3-4 metres and a top line of high visibility plastic hazard tape. The posts should be strong enough to sustain knocks from on site excavation equipment. This fence will deter the placement of building materials, entry of heavy equipment and vehicles and also the entry of workers and/or the public into the TPZ. Note: There are many different variations on the construction type and material used for TPZ fences, suffice to say that the fence should satisfy the responsible authority.
- Contractors and site workers should receive written and verbal instruction as to the importance of tree protection and preservation within the site. Successful tree preservation occurs when there is a commitment from all relevant parties involved in designing, constructing and managing a development project. Members of the project team need to interact with each other to minimise the impacts to the trees, either through design decisions or construction practices. The importance of tree preservation must be communicated to all relevant parties involved with the site.
- The consultant arborist is on-site to supervise excavation works around the existing trees where the TPZ will be encroached.
- A layer of organic mulch (woodchips) to a depth of no more than 100mm should be placed over the root systems within the TPZ of trees, which are to be retained so as to assist with moisture retention and to reduce the impact of compaction.
- No persons, vehicles or machinery to enter the TPZ without the consent of the consulting arborist or site manager.
- Where machinery is required to operate inside the TPZ it must be a small skid drive machine (i.e Dingo or similar) operating only forwards and backwards in a radial direction facing the tree trunk and not altering direction whilst inside the TPZ to avoid damaging, compacting or scuffing the roots.
- Any underground service installations within the allocated TPZ should be bored and utility authorities should common trench where possible.
- No fuel, oil dumps or chemicals shall be allowed in or stored on the TPZ and the servicing and re-fuelling of equipment and vehicles should be carried out away from the root zones.
- No storage of material, equipment or temporary building should take place over the root zone of any tree.
- Nothing whatsoever should be attached to any tree including temporary services wires, nails, screws or any other fixing device.
- Supplementary watering should be provided to all trees through any dry periods during and after the construction process. Proper watering is the most important maintenance task in terms of successfully retaining the designated trees. The areas under the canopy drip lines should be mulched with woodchip to a depth of no more than 100mm. The mulch will help maintain soil moisture levels. Testing with a soil probe in a number of locations around the tree will help ascertain soil moisture levels and requirements to irrigate. Water needs to be applied slowly to avoid runoff. A daily watering with 5 litres of water for every 30 mm of trunk calliper may provide the most even soil moisture level for roots (Watson & Himelick, 1997), however light frequent irrigations should be avoided. Irrigation should wet the entire root zone and be allowed to dry out prior to another application. Watering should continue from October until April.

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RE: Arboricultural Consultancy

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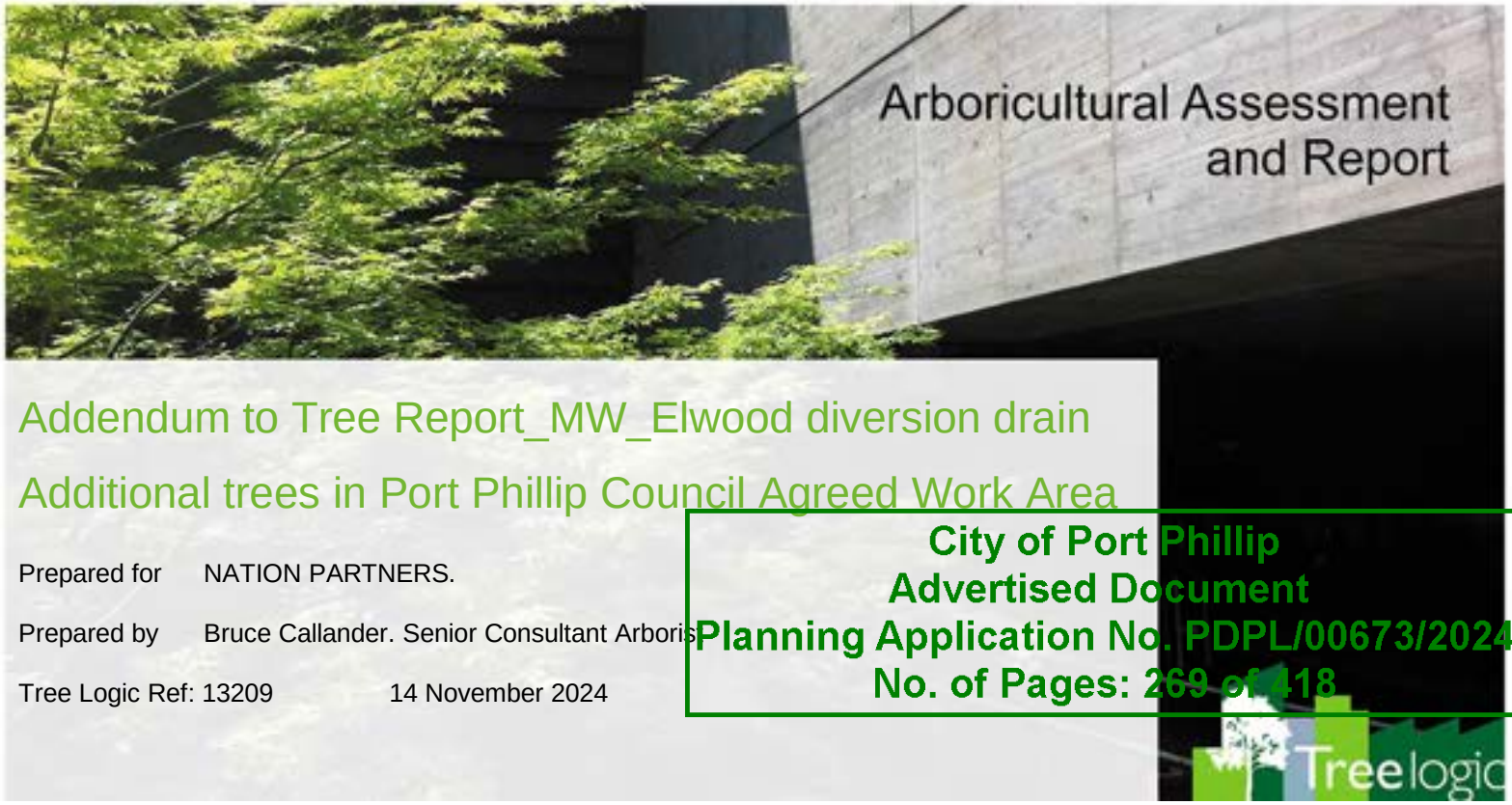
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Arboricultural Assessment and Report

Addendum to Tree Report_MW_Elwood diversion drain

Additional trees in Port Phillip Council Agreed Work Area

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Prepared for NATION PARTNERS.

Prepared by Bruce Callander. Senior Consultant Arborist

Tree Logic Ref: 13209 14 November 2024

Tree Logic was engaged by Nation Partners to undertake a targeted arboricultural inspection of additional trees within a modified works area for the Melbourne Water Elwood Diversion Drain project that has been agreed to by City of Port Phillip. The additional trees were either previously outside the original defined tree study area or were young, planted trees that were below the size threshold specified in the scope of works. City of Port Phillip (CoPP) Council requested further information on these additional trees for offset purposes.

Forty one (41) trees were assessed in addition to the 414 trees and 19 tree groups previously assessed and recorded in the Tree Impact Assessment Report (Prepared by Tree Logic, ref: 13209, dated, 12/9/2024).

The additional trees are numbered 415 to 455 inclusive.

Refer to Plate 1 for the extents of the CoPP Council agreed area. See Appendix 2 for tree locations & numbers.



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Trees 415 to 430 were young Coast Banksia planted along Head Street, Trees 431 to 435 were young planted Drooping She-oaks growing to the north-west of the work area, Trees 436 to 450 were early mature specimens of Drooping She-oak and Norfolk Island Hibiscus trees growing on Ormond Esplanade next to or within the entry to the CoPP agreed works area, and Trees 451 to 455 were growing amid other vegetation east of the Croquet club.

All trees displayed Fair Health typical of the species growing in this environment.
The majority of trees displayed Fair and acceptable structural condition.

The assessed trees were attributed an arboricultural rating. This rating relates to the combination of tree condition factors, including health and structure (arboricultural merit), and also conveys an amenity value. It should be noted that the arboricultural rating is different to the conservation/ecological values placed on trees by other professions. Refer to Table 2:

Refer to Table 1: Tree numbers sorted by Arboricultural ratings.

Table 1: Tree numbers sorted by Arboricultural ratings.

Arboricultural rating	Count	Tree numbers
Moderate B	10	436, 437, 444, 445, 446, 447, 448, 449, 450, 455
Moderate C	29	415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 433, 434, 435, 438, 439, 440, 441, 442, 451, 452, 453, 454
Low	2	432, 443
Total	41	

- Trees rated Moderate B, being typical of the species growing in this setting under prevailing conditions.
- Trees attributed a rating of Moderate C are either small trees in Fair condition or, in this case, are maturing trees with health or structural deficiencies and that are trending towards becoming of Low arboricultural value.
- Trees rated Low are generally not worthy of being a constraint on reasonable design intent and outcome delivery. They may be retained if not directly impacted by any proposed works

The CoPP agreed works area was used as the modified works footprint to complete an impact assessment for these additional trees.
On the basis of the modified / CoPP agreed works area;

- 13 trees can be retained without any direct TPZ encroachment.
- Tree 446 is potentially has major TPZ encroachment of approximately 15%. It is likely the TPZ encroachment into the works area can be excluded from any impacts with ground buffering/fencing.
- 15 trees will have SRZ encroachment and may be at risk of decline and falling over.
- 12 trees exist within the agreed works area and would be expected to be removed.

Updated TPZ encroachment and potential tree impacts table for the entire project area is provided below in Table 2.

The impacts are colour-coded to reflect a traffic light system whereby

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- Trees shown as Green can be retained & works can proceed with TPZ exclusion fencing isolating the trees from any work zones.
- Yellow trees can be retained & works can proceed with TPZ exclusion fencing established at edge of works where works intersect the TPZ.
- Amber trees may be retained if the design footprint can be reviewed to minimise TPZ encroachment.
- Red trees are considered at risk of dying and falling over unless the design can be amended or if percieved encroachment actually does not require site disruption within the SRZ and TPZ encroachment is minimised to 10% or less.
- Black trees are considered unsustainable being within the construction impact zone (unless the design can be amended or if percieved encroachment actually does not require site disruption).

Table 2: Summary of TPZ encroachment from modified works area agreed by CoPP and perceived tree impacts. Additional tree numbers are *italicised & underlined*.

Impact	Count	Tree numbers
None Can be retained if TPZ exclusion fencing is established and maintained during the full construction process.	295	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 19, 20, 21, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 60, 62, 63, 74, 75, 76, 77, 78, 79, 98, 99, 100, 101, 102, 103, 106, 108, 110, 116, 135, 138, 140, 142, 144, 147, 148, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 210, 211, 212, 213, 216, 224, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, *416, 431, 432, 433, 434, 435, 436, 437, 445, 447, 448, 449, 450,* G12, G13, G16, G17, G18, G15, G14, G19
TPZ Retain with TPZ fencing.	13	61, 64, 65, 107, 109, 114, 121, 157, 214, 217, 223, 225, *414*
TPZ_Major * At risk. Review design	4	104, 105, 315, *446*
SRZ * At risk of dying & falling over	25	18, 22, 95, 97, 115, 124, 209, 215, 219, 314, *417, 418, 419, 420, 422, 423, 424, 425, 426, 427, 428, 429, 438, 444, 455*
Within CoPP agreed works area * Unlikely to be retained	130	14, 16, 17, 23, 41, 55, 56, 57, 58, 59, 66, 67, 68, 69, 70, 71, 72, 73, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 96, 111, 112, 113, 117, 118, 119, 120, 122, 123, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 136, 137, 139, 141, 143, 145, 146, 149, 150, 151, 152, 153, 154, 155, 156, 158, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 218, 220, 221, 222, 310, 311, 312, 313, *415, 421, 430, 439, 440, 441, 442, 443, 451, 452, 453, 454,* G1, G4, G6, G9
Groups partly Within footprint	7	G2, G3, G5, G7, G8, G10, G11
* Exceptions may apply to these trees if existing culvert or TPZ conditions remain undisturbed & excluded from impacts		52, 54, 55, 56, 74 to 78, 80, 314, 315, 414

Retention suitability will ultimately be dependent on the proposed landscape setting in which trees are intended to be retained.

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Permit requirements

All trees are within the area covered by Schedule 10 Design and Development Overlay (DDO10).
Under DDO10, a permit is required to remove (or Plant) any vegetation.

Four (4) of the trees would also trigger the CoPP Tree Protection Local Law.
Thirty seven (37) trees are undersize and would not trigger permit under the Local Law (but still trigger permit under DDO10).

An updated list of tree permit requirements for the entire project is provided below in Table 3.
Additional tree numbers are *italicised & underlined*

LGA	Permit trigger	Count	tree_nos
Port Phillip CC	DDO10, CoPP_LL_permit	48	24, 25, 28, 31, 41, 42, 48, 49, 50, 51, 52, 55, 56, 64, 65, 66, 69, 70, 71, 72, 78, 80, 81, 86, 87, 88, 93, 94, 95, 97, 98, 99, 100, 104, 105, 106, 107, 109, 112, 113, 120, 121, 125, 128, *437, 441, 446, 448*
	DDO10, CoPP_Undersize	80	17, 19, 20, 21, 22, 23, 26, 27, 29, 30, 32, 33, 34, 35, 36, 37, 38, 39, 40, 43, 44, 45, 46, 47, 53, 54, 63, 67, 68, 73, 74, 75, 76, 77, 79, 82, 83, 84, 85, 89, 90, 91, 92, 96, 101, 102, 103, 108, 111, 114, 115, 116, 117, 118, 119, 122, *415, 431, 432, 433, 434, 435, 436, 438, 439, 440, 442, 443, 444, 445, 447, 449, 450, 451, 452, 453, 454, 455*, G5, G4
	CoPP_LL_permit	6	16, 58, 59, 60, 61, 414
	CoPP_Undersize	37	18, 57, 62, 110, 123, 124, 126, 127, 129, 130, 131, 132, 133, 134, 136, 137, 139, 141, 143, 145, 146, *416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430,* G6
Bayside CC	BS_VPO1	13	1, 2, 4, 5, 6, 7, 8, 11, 12, 15, G1, G2, G3
	BS_LL_permit	77	153, 154, 155, 159, 160, 167, 169, 185, 199, 212, 213, 214, 215, 225, 231, 234, 238, 239, 242, 249, 254, 257, 260, 270, 271, 274, 281, 286, 288, 289, 290, 291, 296, 300, 302, 307, 308, 309, 322, 324, 325, 326, 330, 332, 333, 340, 341, 343, 345, 348, 350, 352, 353, 354, 356, 357, 358, 359, 360, 361, 362, 364, 365, 366, 368, 371, 373, 376, 383, 389, 392, 393, 395, 401, 405, 410, G17
	BS_Undersize	213	3, 9, 10, 13, 14, 135, 138, 140, 142, 144, 147, 148, 149, 150, 151, 152, 156, 157, 158, 161, 162, 163, 164, 165, 166, 168, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 216, 217, 218, 219, 220, 221, 222, 223, 224, 226, 227, 228, 229, 230, 232, 233, 235, 236, 237, 240, 241, 243, 244, 245, 246, 247, 248, 250, 251, 252, 253, 255, 256, 258, 259, 261, 262, 263, 264, 265, 266, 267, 268, 269, 272, 273, 275, 276, 277, 278, 279, 280, 282, 283, 284, 285, 287, 292, 293, 294, 295, 297, 298, 299, 301, 303, 304, 305, 306, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 323, 327, 328, 329, 331, 334, 335, 336, 337, 338, 339, 342, 344, 346, 347, 349, 351, 355, 363, 367, 369, 370, 372, 374, 375, 377, 378, 379, 380, 381, 382, 384, 385, 386, 387, 388, 390, 391, 394, 396, 397, 398, 399, 400, 402, 403, 404, 406, 407, 408, 409, 411, 412, 413, G7, G8, G12, G9, G10, G11, G13, G16, G18, G15, G14, G19
	Grand Total	474	

5 Tree Protection Zones

The Tree Protection Zones (TPZs) provided for each tree in the Tree Assessment Table in Appendix 1 are calculated using the formula provided in the Australian Standard AS4970 where the Radial TPZ = Trunk diameter (DBH) measured in metres at 1.4m above grade and multiplied by 12.

All tree protection zone establishment and management recommendations described in the original report apply to the additional trees.

Refer to Appendix 1 for all tree data and Appendix 2 for updated Tree Location and TPZ maps.

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Conclusion

Tree Logic was engaged by Nation Partners to undertake assessment of additional trees that were either previously outside the original defined tree study area or were young, planted trees that were generally below the size threshold specified in the original scope of works.
Refer to Plate 1 for the tree study area.

Updated table showing perceived TPZ encroachment impacts for the entire project area is provided in Table 3.

Updated table showing Permit Requirements for the entire project area is provided in Table 3.

A full version of the updated tree assessment data for the whole project area is attached in Appendix 1 in tabular form.

An updated set of Tree Location, Numbering and TPZ plans for the entire project area are attached as Appendix 2, colour coded by Arboricultural rating and TPZ encroachment impacts.

Tree condition can change rapidly because of environmental and other influences. It is recommended that regular inspections are undertaken to identify changes to tree condition on a 3-to-5-year cycle or following local severe or damaging weather events.

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Signed 

Bruce Callander Senior Consultant Arborist Treelogic P/L

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References and bibliography:

Australian Standard (4970-2009) Protection of Trees on development sites. Standards Australia, Sydney NSW Australia

Clark, J.R. & Matheny, N.P (1998), Trees and Development: A technical guide to preservation of trees during land development. ISA, Champaign, Illinois.

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Dunstan, JA. (2017) International Society of Arboriculture– Tree Risk Assessment Manual (2nd edition). ISA, Champaign, Illinois.

Native Vegetation – Clause 52.17 pertaining to naturally occurring trees native to Victoria (not planted specimens) on land greater than 4,000 square metres.

Planning Property reports for 135A ORMOND ESPLANADE ELWOOD 3184

- Schedule 10 Design and Development Overlay (DDO10)
- City of Port Phillip Tree Protection Local Law (PP_TPLL)

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Appendix 1: Updated Tree Assessment Data (includes 41 additional trees)

Refer to the following 16 pages

Key:

DBH = Diameter at breast height (1.4m up trunk) unless otherwise indicated.

Arb. Rating = Arboricultural rating.

TPZ = Tree protection zone in radial metres. SRZ = Structural root zone in radial metres.

Definition of the descriptor categories used in the assessment can be seen in Appendix 3.

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treeid	species	comm_name	age_class	origin_typ	dbh_cm	height x width (m)	health	structure	arb_rating	ule_yrs	comments	tpz_rad_m	srz_rad_m	LL_Permit	impact_name	impact	%TPZ_encroached	works class	rec_works	priority
1	*Myoporum insulare*	Boobialla	Over-mature	Indigenous (Planted)	14,14 (est.)	3 x 6	Fair	Fair to Poor	Mod.C	6 to 10	Sprawling shrub.	2.4	2.1	VPO1	NA	None	0	None required		NA
2	*Myoporum insulare*	Boobialla	Maturing	Indigenous (Planted)	16,15 (est.)	4 x 6	Fair	Fair	Mod.C	6 to 10	Sprawling shrub.	2.6	2.1	VPO1	NA	None	1	None required		NA
3	*Tamarix sp.*	Tamarisk	Early-mature	Exotic evergreen	8,8,7,6 (est.)	4 x 6	Fair	Fair to Poor	Mod.B	11 to 20	Sprawling shrub.	2	1.8	BS_Undersize	NA	None	2	None required		NA
4	*Banksia integrifolia*	Coast Banksia	Early-mature	Indigenous (Planted)	18,17,17,16 (est.)	6 x 6	Fair	Fair	Mod.B	21 to 40	Vine infested. At base.	4.1	2.1	VPO1	NA	None	0	None required		NA
5	*Banksia integrifolia*	Coast Banksia	Semi-mature	Indigenous (Planted)	15 (est.)	5 x 5	Fair	Fair to Poor	Mod.C	11 to 20	Vine infested.	2	1.7	VPO1	NA	None	0	None required		NA
6	*Allocasuarina verticillata*	Drooping She-oak	Maturing	Indigenous (Planted)	54	5 x 7	Good	Fair	Mod.B	11 to 20	Over-extended limbs developing, west.	6.5	2.7	VPO1	NA	None	0	None required		NA
7	*Banksia integrifolia*	Coast Banksia	Maturing	Indigenous (Planted)	54 @0.8m	10 x 7	Fair	Fair	Mod.B	21 to 40	Past limb failure.	6.5	2.7	VPO1	NA	None	0	None required		NA
8	*Allocasuarina verticillata*	Drooping She-oak	Early-mature	Indigenous (Planted)	30 (est.)	5 x 6	Fair	Fair	Mod.B	11 to 20	Over-extended limbs developing, ne. Wind-swept.	3.6	2.1	VPO1	NA	None	0	None required		NA
9	*Cupressus macrocarpa*	Monterey Cypress	Early-mature	Exotic conifer	23 (est.)	4 x 6	Fair to Poor	Fair to Poor	Mod.C	11 to 20	Neighbour's tree, over-extended limbs developing. Wind-swept.	2.8	2.1	BS_Undersize	NA	None	0	None required		NA
10	*Acacia saligna*	Golden Wreath Wattle	Semi-mature	Australian native	10,8,7,6 (est.)	2 x 4	Fair	Fair to Poor	Mod.C	6 to 10	Hedged.	2	1.6	BS_Undersize	NA	None	0	None required		NA
11	*Leptospermum laevigatum*	Coast Tea-tree	Early-mature	Indigenous (Planted)	10,9,8 (est.)	3 x 5	Fair	Fair to Poor	Mod.C	11 to 20	Sprawling tree in garden bed.	2	1.6	VPO1	NA	None	0	None required		NA
12	*Leptospermum laevigatum*	Coast Tea-tree	Maturing	Indigenous (Planted)	24	3 x 6	Fair to Poor	Fair to Poor	Mod.C	11 to 20	Trunk leaning, east. Windswept.	2.9	1.9	VPO1	NA	None	0	None required		NA
13	*Araucaria heterophylla*	Norfolk Island Pine	Early-mature	Australian conifer	18	7 x 4	Fair	Fair	Mod.C	>40	Reduced foliage density.	2.2	1.8	BS_Undersize	NA	None	0	None required		NA
14	*Araucaria heterophylla*	Norfolk Island Pine	Young	Australian conifer	6	2 x 1	Fair to Poor	Fair	Low	21 to 40	Salt-burn.	2	1.5	BS_Undersize	CoPP agreed area - 77.23%	Within	77.23	None required		NA
15	*Leptospermum laevigatum*	Coast Tea-tree	Semi-mature	Indigenous (Planted)	4,3,2,2	2 x 2	Fair	Fair to Poor	Mod.C	11 to 20	Sprawling tree in garden bed.	2	1.5	VPO1	NA	None	0	None required		NA
16	*Phoenix canariensis*	Canary Island Date Palm	Maturing	Exotic palm	100	14 x 6	Fair	Fair	Mod.A	>40	1 row of depleted fronds.	4	3.4	PP_LL_permit	CoPP agreed area - 99.9%	Within	99.9	None required		NA
17	*Araucaria heterophylla*	Norfolk Island Pine	Early-mature	Australian conifer	33	8 x 6	Fair	Fair to Poor	Mod.C	11 to 20	Incipient decay, trunk wounds, west.	4	2.2	DDO10, PP_Undersize	CoPP agreed area - 100.01%	Within	100.01	None required		NA
18	*Allocasuarina verticillata*	Drooping She-oak	Maturing	Indigenous (Planted)	26	6 x 5	Fair	Fair	Mod.B	21 to 40	Acute forks.	3.1	2.2	PP_Undersize	CoPP agreed area - 14.73%	SRZ	14.73	None required		NA
19	*Banksia integrifolia*	Coast Banksia	Early-mature	Indigenous (Planted)	32	6 x 5	Fair	Fair	Mod.B	21 to 40		3.8	2.2	DDO10, PP_Undersize	NA	None	0	None required		NA
20	*Banksia integrifolia*	Coast Banksia	Semi-mature	Indigenous (Planted)	10,6 (est.)	4 x 2	Fair	Fair	Mod.C	21 to 40	Vine infested.	2	1.5	DDO10, PP_Undersize	NA	None	0	None required		NA
21	*Banksia integrifolia*	Coast Banksia	Early-mature	Indigenous (Planted)	28,15 (est.)	6 x 5	Fair	Fair	Mod.B	21 to 40	Trunk obscured by vine.	3.8	2.2	DDO10, PP_Undersize	NA	None	0	None required		NA
22	*Leptospermum laevigatum*	Coast Tea-tree	Early-mature	Indigenous (Planted)	11,7,5,4 (est.)	3 x 4	Fair	Fair	Mod.C	11 to 20	Vine infested.	2	1.6	DDO10, PP_Undersize	CoPP agreed area - 9.85%	SRZ	9.85	None required		NA
23	*Banksia integrifolia*	Coast Banksia	Early-mature	Indigenous (Planted)	38 @0.8m	7 x 6	Fair	Fair	Mod.B	21 to 40		4.6	2.3	DDO10, PP_Undersize	CoPP agreed area - 99.99%	Within	99.99	None required		NA
24	*Banksia integrifolia*	Coast Banksia	Maturing	Indigenous (Planted)	19,18,16,14	5 x 5	Fair	Fair	Mod.B	11 to 20		4	2.4	DDO10, PP_LL_permit	NA	None	0	None required		NA
25	*Banksia integrifolia*	Coast Banksia	Maturing	Indigenous (Planted)	15,11,11,10,7	5 x 5	Fair	Fair to Poor	Mod.C	11 to 20		2.9	2.2	DDO10, PP_LL_permit	NA	None	0	None required		NA
26	*Myoporum insulare*	Boobialla	Early-mature	Indigenous (Planted)	15,7,6,5 (est.)	2 x 4	Fair	Fair to Poor	Mod.C	11 to 20		2	1.7	DDO10, PP_Undersize	NA	None	0	None required		NA
27	*Banksia integrifolia*	Coast Banksia	Early-mature	Indigenous (Planted)	24	4 x 4	Fair to Poor	Fair	Mod.C	11 to 20	Minor dieback, nth.	2.9	1.9	DDO10, PP_Undersize	NA	None	0	None required		NA
28	*Banksia integrifolia*	Coast Banksia	Maturing	Indigenous (Planted)	26,23,17	7 x 6	Fair to Poor	Fair	Mod.C	11 to 20	Tip dieback.	4.6	2.4	DDO10, PP_LL_permit	NA	None	0	None required		NA
29	*Banksia integrifolia*	Coast Banksia	Semi-mature	Indigenous (Planted)	13,12	3 x 3	Fair	Fair	Mod.C	11 to 20		2.1	1.8	DDO10, PP_Undersize	NA	None	0	None required		NA
30	*Banksia integrifolia*	Coast Banksia	Early-mature	Indigenous (Planted)	16,13	5 x 3	Fair	Fair	Mod.B	11 to 20		2.5	1.8	DDO10, PP_Undersize	NA	None	0	None required		NA
31	*Banksia integrifolia*	Coast Banksia	Early-mature	Indigenous (Planted)	25,24,20	6 x 7	Fair	Fair	Mod.B	11 to 20	Reduced foliage density. In new cut-out.	4.8	2.4	DDO10, PP_LL_permit	NA	None	0	None required		NA
32	*Leptospermum laevigatum*	Coast Tea-tree	Semi-mature	Indigenous (Planted)	12	3 x 2	Fair	Fair	Mod.C	21 to 40	Trunk leaning, east.	2	1.5	DDO10, PP_Undersize	NA	None	0	None required		NA
33	*Allocasuarina verticillata*	Drooping She-oak	Semi-mature	Indigenous (Planted)	16,12,11 (est.)	4 x 4	Fair	Fair	Mod.C	21 to 40	Partly suppressed - crown bias, nth.	2.7	1.7	DDO10, PP_Undersize	NA	None	0	None required		NA
34	*Allocasuarina verticillata*	Drooping She-oak	Semi-mature	Indigenous (Planted)	14,12,10	4 x 4	Fair	Fair	Mod.C	21 to 40		2.5	1.6	DDO10, PP_Undersize	NA	None	0	None required		NA
35	*Acacia paradoxa*	Hedge Wattle	Early-mature	Victorian native	8,6,6,5	3 x 4	Fair	Fair	Low	6 to 10		2	1.5	DDO10, PP_Undersize	NA	None	0	None required		NA
36	*Allocasuarina verticillata*	Drooping She-oak	Semi-mature	Indigenous (Planted)	10 (est.)	3 x 3	Fair	Fair	Low	6 to 10		2	1.5	DDO10, PP_Undersize	NA	None	0	None required		NA
37	*Myoporum insulare*	Boobialla	Early-mature	Indigenous (Planted)	8 (multi-stem)	3 x 4	Fair	Fair to Poor	Low	11 to 20	Multi-stemmed, shrub.	2	1.5	DDO10, PP_Undersize	NA	None	0	None required		NA

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38	*Allocasuarina verticillata*	Drooping She-oak	Semi-mature	Indigenous (Planted)	15,13	3 x 3	Fair	Fair	Mod.C	21 to 40		2.4	1.7	DDO10, PP_Undersize	NA	None	0	None required		NA
39	*Myoporum insulare*	Boobialla	Early-mature	Indigenous (Planted)	8	3 x 4	Fair	Fair to Poor	Low	11 to 20	Multi-stemmed, shrub.	2	1.5	DDO10, PP_Undersize	NA	None	0	None required		NA
40	*Allocasuarina verticillata*	Drooping She-oak	Early-mature	Indigenous (Planted)	38 (est.)	6 x 6	Good	Fair	Mod.B	21 to 40	Vine infested. On lower trunk.	4.6	2.3	DDO10, PP_Undersize	NA	None	0	None required		NA
41	*Banksia integrifolia*	Coast Banksia	Early-mature	Indigenous (Planted)	36,27,26	8 x 7	Fair	Fair	Mod.B	21 to 40		6.2	2.8	DDO10, PP_LL_permit	CoPP agreed area - 57.42%	Within	57.42	None required		NA
42	*Allocasuarina verticillata*	Drooping She-oak	Early-mature	Indigenous (Planted)	45,40,20@ 0.1m	6 x 12	Fair	Fair to Poor	Mod.B	11 to 20	Subsiding limbs, nw.	7.6	2.8	DDO10, PP_LL_permit	NA	None	0	None required		NA
43	*Allocasuarina verticillata*	Drooping She-oak	Semi-mature	Indigenous (Planted)	20,16,9	6 x 5	Fair	Fair to Poor	Mod.C	11 to 20	Partly suppressed - crown bias, east.	3.1	2.2	DDO10, PP_Undersize	NA	None	0	None required		NA
44	*Allocasuarina verticillata*	Drooping She-oak	Semi-mature	Indigenous (Planted)	23	5 x 5	Good	Fair	Mod.B	21 to 40		2.8	1.8	DDO10, PP_Undersize	NA	None	0	None required		NA
45	*Allocasuarina verticillata*	Drooping She-oak	Semi-mature	Indigenous (Planted)	16	4 x 3	Fair	Fair	Mod.C	21 to 40	Partly suppressed - crown bias, east.	2	1.6	DDO10, PP_Undersize	NA	None	0	None required		NA
46	*Allocasuarina verticillata*	Drooping She-oak	Semi-mature	Indigenous (Planted)	20	5 x 6	Fair	Fair	Mod.B	21 to 40		2.4	1.8	DDO10, PP_Undersize	NA	None	0	None required		NA
47	*Allocasuarina verticillata*	Drooping She-oak	Early-mature	Indigenous (Planted)	24	6 x 6	Good	Fair	Mod.B	21 to 40		2.9	1.9	DDO10, PP_Undersize	NA	None	0	None required		NA
48	*Lagunaria patersonia*	Norfolk Island Hibiscus	Early-mature	Australian native	51	11 x 9	Fair	Fair	Mod.B	21 to 40		6.1	2.7	DDO10, PP_LL_permit	NA	None	0	None required		NA
49	*Lagunaria patersonia*	Norfolk Island Hibiscus	Maturing	Australian native	54	9 x 9	Fair	Fair	Mod.A	21 to 40		6.5	2.7	DDO10, PP_LL_permit	NA	None	0	None required		NA
50	*Lagunaria patersonia*	Norfolk Island Hibiscus	Maturing	Australian native	29,28,25,2 1,20	9 x 10	Fair	Fair to Poor	Mod.B	21 to 40	Multi-stemmed.	6.7	2.8	DDO10, PP_LL_permit	NA	None	0	None required		NA
51	*Corynocarpus laevigatus*	Karaka	Maturing	Exotic evergreen	22,20,17,1 6	4 x 5	Fair	Fair to Poor	Mod.B	11 to 20		4.5	2.6	DDO10, PP_LL_permit	NA	None	0	None required		NA
52	*Lagunaria patersonia*	Norfolk Island Hibiscus	Maturing	Australian native	72 @1.0m	10 x 10	Fair	Fair	Mod.A	21 to 40		8.6	2.9	DDO10, PP_LL_permit	NA	None	0	None required		NA
53	*Callitris rhomboidea*	Port Jackson Pine	Young	Australian conifer	2	2 x 1	Fair to Poor	Fair	Mod.C	11 to 20	Minor dieback.	2	1.5	DDO10, PP_Undersize	NA	None	0	None required		NA
54	*Calodendrum capense*	Cape Chestnut	Early-mature	Exotic evergreen	14	4 x 4	Fair	Fair	Mod.B	21 to 40	Reduced foliage density.	2	1.6	DDO10, PP_Undersize	NA	None	0	None required		NA
55	*Ficus rubiginosa*	Port Jackson Fig	Maturing	Australian native	107	13 x 20	Good	Fair	High	>40		12.8	3.4	DDO10, PP_LL_permit	CoPP agreed area - 91.68%	Within	91.68	None required		NA
56	*Lagunaria patersonia*	Norfolk Island Hibiscus	Maturing	Australian native	87 @1.0m	10 x 11	Fair	Fair	Mod.A	21 to 40		10.4	3.2	DDO10, PP_LL_permit	CoPP agreed area - 100.0%	Within	100	None required		NA
57	*Lagunaria patersonia*	Norfolk Island Hibiscus	Early-mature	Australian native	37	7 x 8	Fair	Fair	Mod.B	>40		4.4	2.3	PP_Undersize	CoPP agreed area - 100.01%	Within	100.01	None required		NA
58	*Lagunaria patersonia*	Norfolk Island Hibiscus	Maturing	Australian native	68 @1.0m	10 x 8	Fair	Fair	Mod.A	21 to 40		8.2	2.8	PP_LL_permit	CoPP agreed area - 56.67%	Within	56.67	None required		NA
59	*Ligustrum lucidum 'Tricolour'*	Tricolor Privet	Maturing	Exotic evergreen	17,15,15,1 5,12	4 x 5	Fair to Poor	Fair to Poor	Low	6 to 10	30-40% dieback & reverting to green.	4	2.2	PP_LL_permit	CoPP agreed area - 100.01%	Within	100.01	None required		NA
60	*Lagunaria patersonia*	Norfolk Island Hibiscus	Early-mature	Australian native	35,36,18	10 x 7	Fair	Fair	Mod.B	21 to 40	Partly suppressed - crown bias, east.	6.4	2.6	PP_LL_permit	NA	None	0	None required		NA
61	*Ficus rubiginosa*	Port Jackson Fig	Maturing	Australian native	113@1.0m	15 x 25	Good	Fair	High	>40		13.6	3.5	PP_LL_permit	CoPP agreed area - 1.61%	TPZ	1.61	None required		NA
62	*Lagunaria patersonia*	Norfolk Island Hibiscus	Early-mature	Australian native	43@1.2m	7 x 6	Fair	Fair to Poor	Mod.B	11 to 20	Past powerline clearance.	5.2	2.4	PP_Undersize	NA	None	0	None required		NA
63	*Melaleuca styphelioides*	Prickly-leaved Paperbark	Semi-mature	Australian native	20,18	5 x 4	Fair	Fair to Poor	Low	11 to 20	Partly suppressed - crown bias west.	3.2	2.1	DDO10, PP_Undersize	NA	None	0	None required		NA
64	*Eucalyptus botryoides*	Southern Mahogany	Maturing	Victorian native	109	25 x 19	Fair	Fair	Mod.A	21 to 40		13.1	3.7	DDO10, PP_LL_permit	CoPP agreed area - 5.17%	TPZ	5.17	None required		NA
65	*Melaleuca styphelioides*	Prickly-leaved Paperbark	Early-mature	Australian native	43,35	7 x 9	Fair	Fair	Mod.B	21 to 40	Northeast.	6.7	2.6	DDO10, PP_LL_permit	CoPP agreed area - 7.65%	TPZ	7.65	None required		NA
66	*Melaleuca styphelioides*	Prickly-leaved Paperbark	Early-mature	Australian native	49,30	7 x 9	Fair	Fair	Mod.B	11 to 20		6.9	2.7	DDO10, PP_LL_permit	CoPP agreed area - 58.04%	Within	58.04	None required		NA
67	*Grevillea robusta*	Silky Oak	Early-mature	Australian native	28	8 x 7	Fair to Poor	Fair	Mod.B	>40		3.4	2.1	DDO10, PP_Undersize	CoPP agreed area - 100.0%	Within	100	None required		NA
68	*Corymbia ficifolia*	Red-flowering Gum	Early-mature	Australian native	24	6 x 5	Fair	Fair	Mod.B	>40	Basal wound to SW likely from mowing.	2.9	2	DDO10, PP_Undersize	CoPP agreed area - 100.0%	Within	100	None required		NA

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69	*Cupressus macrocarpa 'Goldcrest'*	Golden Monterey Cypress	Maturing	Exotic conifer	60,51,44,37	13 x 13	Fair	Fair to Poor	Mod.B	21 to 40	Past failures, one stem reduced.	11.7	3.3	DDO10, PP_LL_permit	CoPP agreed area - 100.0%	Within	100	None required		NA
70	*Melaleuca styphelioides*	Prickly-leaved Paperbark	Maturing	Australian native	44,30,22	8 x 10	Fair	Fair	Mod.B	21 to 40	Reduced foliage density.	6.9	3.1	DDO10, PP_LL_permit	CoPP agreed area - 100.0%	Within	100	None required		NA
71	*Melaleuca styphelioides*	Prickly-leaved Paperbark	Maturing	Australian native	41,38	7 x 9	Fair	Fair	Mod.B	21 to 40		6.7	2.5	DDO10, PP_LL_permit	CoPP agreed area - 100.0%	Within	100	None required		NA
72	*Melaleuca styphelioides*	Prickly-leaved Paperbark	Maturing	Australian native	38,34,33	9 x 11	Fair	Fair	Mod.B	21 to 40		7.3	2.8	DDO10, PP_LL_permit	CoPP agreed area - 100.0%	Within	100	None required		NA
73	*Brachychiton acerifolius*	Illawarra Flame Tree	Semi-mature	Australian native	18	4 x 4	Good	Fair	Mod.B	>40		2.2	1.7	DDO10, PP_Undersize	CoPP agreed area - 99.99%	Within	99.99	None required		NA
74	*Ficus macrophylla*	Moreton Bay Fig	Semi-mature	Australian native	11	4 x 2	Fair	Fair	Mod.C	>40		2	1.6	DDO10, PP_Undersize	NA	None	0	None required		NA
75	*Callitris rhomboidea*	Port Jackson Pine	Young	Australian conifer	6	3 x 1	Fair	Fair	Mod.C	21 to 40		2	1.5	DDO10, PP_Undersize	NA	None	0	None required		NA
76	*Callitris rhomboidea*	Port Jackson Pine	Young	Australian conifer	6	2 x 1	Fair	Fair	Mod.C	11 to 20		2	1.5	DDO10, PP_Undersize	NA	None	0	None required		NA
77	*Callitris rhomboidea*	Port Jackson Pine	Young	Australian conifer	3	2 x 1	Fair to Poor	Fair	Mod.C	11 to 20	Minor dieback.	2	1.5	DDO10, PP_Undersize	NA	None	0	None required		NA
78	*Lagunaria patersonia*	Norfolk Island Hibiscus	Maturing	Australian native	53	9 x 10	Good	Fair	Mod.A	21 to 40		6.4	2.8	DDO10, PP_LL_permit	NA	None	0	None required		NA
79	*Agonis flexuosa*	Willow Myrtle	Young	Australian native	2	2 x 1	Fair	Fair	Mod.C	21 to 40		2	1.5	DDO10, PP_Undersize	NA	None	0	None required		NA
80	*Cotoneaster sp.*	Cotoneaster	Maturing	Exotic evergreen	23,22,20,18,16	5 x 8	Fair to Poor	Fair to Poor	Low	6 to 10	Minor dieback, woody weed sp	5.4	3	DDO10, PP_LL_permit	CoPP agreed area - 76.33%	Within	76.33	None required		NA
81	*Corynocarpus laevigatus*	Karaka	Maturing	Exotic evergreen	20,18,16,16,12	5 x 6	Fair to Poor	Fair to Poor	Mod.C	11 to 20	Minor dieback.	4.5	2.8	DDO10, PP_LL_permit	CoPP agreed area - 100.0%	Within	100	None required		NA
82	*Lagunaria patersonia*	Norfolk Island Hibiscus	Early-mature	Australian native	37	9 x 8	Fair	Fair	Mod.B	21 to 40		4.4	2.3	DDO10, PP_Undersize	CoPP agreed area - 100.01%	Within	100.01	None required		NA
83	*Ficus carica*	Common Fig	Semi-mature	Exotic deciduous	10,8,8	3 x 4	Fair to Poor	Fair to Poor	Low	1 to 5	Growing through fence & against building.	2	1.8	DDO10, PP_Undersize	CoPP agreed area - 100.01%	Within	100.01	None required		NA
84	*Cordyline australis*	Cabbage Tree	Early-mature	Exotic evergreen	20,20 (est.)	4 x 3	Fair to Poor	Poor	Low	1 to 5	Ivy on trunk.	3.4	2.1	DDO10, PP_Undersize	CoPP agreed area - 100.0%	Within	100	None required		NA
85	*Araucaria heterophylla*	Norfolk Island Pine	Early-mature	Australian conifer	44	16 x 8	Fair to Poor	Fair	Mod.C	21 to 40	Reduced foliage density.	5.3	2.5	DDO10, PP_Undersize	CoPP agreed area - 100.0%	Within	100	None required		NA
86	*Ulmus parvifolia*	Chinese Elm	Maturing	Exotic deciduous	40,27	11 x 16	Fair	Fair	Mod.A	21 to 40	Over-extended limbs developing. & down to ground level.	5.8	2.5	DDO10, PP_LL_permit	CoPP agreed area - 100.0%	Within	100	None required		NA
87	*Lagunaria patersonia*	Norfolk Island Hibiscus	Maturing	Australian native	47,39,27	11 x 10	Fair	Fair	Mod.B	11 to 20	Close to entrance path.	8	2.9	DDO10, PP_LL_permit	CoPP agreed area - 100.0%	Within	100	None required		NA
88	*Corynocarpus laevigatus*	Karaka	Maturing	Exotic evergreen	15,15,14,13 (multi-stem)	6 x 6	Fair	Fair	Mod.C	11 to 20		3.4	2.5	DDO10, PP_LL_permit	CoPP agreed area - 100.0%	Within	100	None required		NA
89	*Quercus ilex*	Holly Oak	Early-mature	Exotic evergreen	24,17 (est.)	5 x 7	Fair	Fair to Poor	Mod.B	11 to 20	Hedged along path.	3.5	2.2	DDO10, PP_Undersize	CoPP agreed area - 99.99%	Within	99.99	None required		NA
90	*Afrocarpus falcata*	Yellow-wood	Maturing	Exotic conifer	40	11 x 8	Fair	Fair	Mod.B	11 to 20	Trunk leaning, east.	4.8	2.3	DDO10, PP_Undersize	CoPP agreed area - 100.0%	Within	100	None required		NA
91	*Quercus ilex*	Holly Oak	Early-mature	Exotic evergreen	27 (est.)	6 x 5	Fair	Fair to Poor	Low	11 to 20	Neighbour's tree, partly suppressed - crown bias, nth. Associated w tree in park to east of path.	3.2	2.1	DDO10, PP_Undersize	CoPP agreed area - 90.69%	Within	90.69	None required		NA
92	*Pittosporum undulatum*	Sweet Pittosporum	Semi-mature	Victorian native	13,9,6	5 x 4	Fair	Fair to Poor	Low	6 to 10	Neighbour's tree, woody weed sp Multi-stemmed Cotoneaster to Sth.	2	1.7	DDO10, PP_Undersize	CoPP agreed area - 73.33%	Within	73.33	None required		NA
93	*Quercus ilex*	Holly Oak	Early-mature	Exotic evergreen	32, 30, 21	8 x 8	Fair	Fair	Mod.B	21 to 40	Cluster of 3 trees at 1.5m spacing.	5.8	2.2	DDO10, PP_LL_permit	CoPP agreed area - 69.16%	Within	69.16	None required		NA
94	*Ficus rubiginosa*	Port Jackson Fig	Maturing	Australian native	94 @1.0m	13 x 19	Fair	Fair	High	>40		11.3	3.2	DDO10, PP_LL_permit	CoPP agreed area - 65.12%	Within	65.12	None required		NA
95	*Melaleuca styphelioides*	Prickly-leaved Paperbark	Maturing	Australian native	52	9 x 9	Fair	Fair	Mod.B	21 to 40		6.2	2.6	DDO10, PP_LL_permit	CoPP agreed area - 30.83%	SRZ	30.83	None required		NA
96	*Brachychiton acerifolius*	Illawarra Flame Tree	Semi-mature	Australian native	27	5 x 6	Fair	Fair	Mod.B	>40		3.2	2.1	DDO10, PP_Undersize	CoPP agreed area - 83.4%	Within	83.4	None required		NA
97	*Melaleuca styphelioides*	Prickly-leaved Paperbark	Early-mature	Australian native	49,31,28	7 x 8	Fair	Fair	Mod.B	21 to 40		7.7	2.8	DDO10, PP_LL_permit	CoPP agreed area - 39.53%	SRZ	39.53	None required		NA
98	*Pittosporum undulatum*	Sweet Pittosporum	Early-mature	Victorian native	26,20,18	7 x 7	Fair to Poor	Fair to Poor	Low	6 to 10	Dieback, woody weed sp	4.5	2.6	DDO10, PP_LL_permit	NA	None	0	None required		NA
99	*Melaleuca styphelioides*	Prickly-leaved Paperbark	Early-mature	Australian native	35,25,18	7 x 7	Fair	Fair	Mod.B	21 to 40		5.6	2.5	DDO10, PP_LL_permit	NA	None	0	None required		NA
100	*Lagunaria patersonia*	Norfolk Island Hibiscus	Maturing	Australian native	69	10 x 10	Fair	Fair	Mod.A	21 to 40		8.3	2.9	DDO10, PP_LL_permit	NA	None	0	None required		NA
101	*Ligustrum lucidum*	Shining Privet	Semi-mature	Exotic evergreen	15	6 x 4	Fair	Fair to Poor	Low	1 to 5	Woody weed sp	2	1.7	DDO10, PP_Undersize	NA	None	0	None required		NA

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102	*Ligustrum lucidum*	Shining Privet	Semi-mature	Exotic evergreen	10,8	6 x 5	Fair	Fair to Poor	Low	1 to 5	Woody weed sp	2	1.6	DDO10, PP_Undersize	NA	None	0	None required		NA
103	*Ligustrum lucidum*	Shining Privet	Early-mature	Exotic evergreen	15,14,11	6 x 5	Fair	Fair to Poor	Low	1 to 5	Woody weed sp	2.8	2	DDO10, PP_Undersize	NA	None	0	None required		NA
104	*Lagunaria patersonia*	Norfolk Island Hibiscus	Maturing	Australian native	80 (est.)	11 x 10	Fair	Fair	Mod.B	11 to 20	Neighbour's tree.	9.6	3.1	DDO10, PP_LL_permit	CoPP agreed area - 16.39%	TPZ_Major	16.39	None required		NA
105	*Lagunaria patersonia*	Norfolk Island Hibiscus	Maturing	Australian native	75 (est.)	10 x 10	Fair to Poor	Fair	Mod.B	11 to 20	Neighbour's tree, reduced foliage density.	9	3	DDO10, PP_LL_permit	CoPP agreed area - 19.22%	TPZ_Major	19.22	None required		NA
106	*Pittosporum undulatum*	Sweet Pittosporum	Semi-mature	Victorian native	22,16,15,14,10	5 x 8	Fair to Poor	Fair to Poor	Low	6 to 10	Neighbour's tree, woody weed sp	4.3	2.6	DDO10, PP_LL_permit	NA	None	0	None required		NA
107	*Lagunaria patersonia*	Norfolk Island Hibiscus	Maturing	Australian native	68	10 x 10	Good	Fair	Mod.B	11 to 20	Neighbour's tree.	8.2	2.9	DDO10, PP_LL_permit	CoPP agreed area - 11.5%	TPZ	11.5	None required		NA
108	*Coprosma repens*	Mirror Bush	Maturing	Exotic evergreen	2,2,2,2 (multi-stem)	2 x 2	Fair	Poor	Very Low	1 to 5	Neighbour's tree, woody weed sp	2	1.5	DDO10, PP_Undersize	NA	None	0	None required		NA
109	*Lagunaria patersonia*	Norfolk Island Hibiscus	Maturing	Australian native	71 (est.)	12 x 11	Fair	Fair	Mod.B	11 to 20	Neighbour's tree, woody weed sp	8.5	3	DDO10, PP_LL_permit	CoPP agreed area - 10.93%	TPZ	10.93	None required		NA
110	*Allocasuarina verticillata*	Drooping She-oak	Semi-mature	Indigenous (Planted)	17 @1.0m	4 x 4	Good	Fair	Mod.B	21 to 40		2	1.6	PP_Undersize	NA	None	0	None required		NA
111	*Lagunaria patersonia*	Norfolk Island Hibiscus	Early-mature	Australian native	23 (est.)	9 x 7	Fair	Fair	Mod.B	21 to 40	Neighbour's tree. In Croquet club.	2.8	1.9	DDO10, PP_Undersize	CoPP agreed area - 100.0%	Within	100	None required		NA
112	*Lagunaria patersonia*	Norfolk Island Hibiscus	Early-mature	Australian native	35,16 (est.)	10 x 9	Fair	Fair	Mod.B	21 to 40	In Croquet club.	4.6	2.6	DDO10, PP_LL_permit	CoPP agreed area - 99.99%	Within	99.99	None required		NA
113	*Fraxinus ornus*	Manna Ash	Maturing	Exotic deciduous	50	12 x 11	Fair	Fair	Mod.B	11 to 20	Graft at base.	6	2.6	DDO10, PP_LL_permit	CoPP agreed area - 100.0%	Within	100	None required		NA
114	*Allocasuarina verticillata*	Drooping She-oak	Early-mature	Indigenous (Planted)	32	8 x 7	Fair	Fair	Mod.B	21 to 40	Weed infested. W coprosma at base.	3.8	2.2	DDO10, PP_Undersize	CoPP agreed area - 1.34%	TPZ	1.34	None required		NA
115	*Leptospermum laevigatum*	Coast Tea-tree	Maturing	Indigenous (Planted)	25	3 x 6	Fair	Poor	Low	6 to 10	Collapsed-still growing. Along ground.	3	2.6	DDO10, PP_Undersize	CoPP agreed area - 20.12%	SRZ	20.12	None required		NA
116	*Ligustrum lucidum*	Shining Privet	Early-mature	Exotic evergreen	10,9,8,7	3 x 4	Fair to Poor	Fair to Poor	Low	1 to 5	Dieback, woody weed sp	2	1.8	DDO10, PP_Undersize	NA	None	0	None required		NA
117	*Lagunaria patersonia*	Norfolk Island Hibiscus	Early-mature	Australian native	25	7 x 5	Fair	Fair	Mod.B	11 to 20	In Croquet club.	3	1.9	DDO10, PP_Undersize	CoPP agreed area - 52.92%	Within	52.92	None required		NA
118	*Pittosporum undulatum*	Sweet Pittosporum	Maturing	Victorian native	32	8 x 5	Fair	Fair to Poor	Low	6 to 10	Woody weed sp In Croquet club.	3.8	2.1	DDO10, PP_Undersize	CoPP agreed area - 53.92%	Within	53.92	None required		NA
119	*Cotoneaster sp.*	Cotoneaster	Maturing	Exotic evergreen	18,11,9 (est.)	5 x 5	Fair	Fair to Poor	Low	1 to 5	Woody weed sp In Croquet club.	2.5	2.3	DDO10, PP_Undersize	CoPP agreed area - 58.87%	Within	58.87	None required		NA
120	*Pittosporum undulatum*	Sweet Pittosporum	Maturing	Victorian native	23,22,18 (est.)	8 x 7	Fair	Fair to Poor	Low	6 to 10	Woody weed sp In Croquet club.	4.4	2.4	DDO10, PP_LL_permit	CoPP agreed area - 52.12%	Within	52.12	None required		NA
121	*Lagunaria patersonia*	Norfolk Island Hibiscus	Maturing	Australian native	61 @1.0m	10 x 11	Good	Fair	Mod.A	21 to 40		7.3	2.8	DDO10, PP_LL_permit	CoPP agreed area - 7.07%	TPZ	7.07	None required		NA
122	*Lagunaria patersonia*	Norfolk Island Hibiscus	Maturing	Australian native	27	7 x 5	Fair to Poor	Fair	Mod.C	21 to 40	Reduced foliage density.	3.2	2.1	DDO10, PP_Undersize	CoPP agreed area - 99.99%	Within	99.99	None required		NA
123	*Allocasuarina verticillata*	Drooping She-oak	Early-mature	Indigenous (Planted)	15	5 x 6	Good	Fair to Poor	Mod.C	21 to 40	Young Coast Banksias planted to SW	2	1.6	PP_Undersize	CoPP agreed area - 74.98%	Within	74.98	None required		NA
124	*Banksia integrifolia*	Coast Banksia	Young	Indigenous (Planted)	8	3 x 1	Fair	Fair	Mod.C	21 to 40		2	1.5	PP_Undersize	CoPP agreed area - 24.88%	SRZ	24.88	None required		NA
125	*Lagunaria patersonia*	Norfolk Island Hibiscus	Maturing	Australian native	67	10 x 10	Good	Fair	Mod.A	21 to 40		8	2.8	DDO10, PP_LL_permit	CoPP agreed area - 100.0%	Within	100	None required		NA
126	*Allocasuarina verticillata*	Drooping She-oak	Semi-mature	Indigenous (Planted)	15	4 x 4	Good	Fair to Poor	Mod.B	21 to 40		2	1.6	PP_Undersize	CoPP agreed area - 70.3%	Within	70.3	None required		NA
127	*Allocasuarina verticillata*	Drooping She-oak	Early-mature	Indigenous (Planted)	16	6 x 6	Fair	Fair	Mod.C	21 to 40	Young Coast Banksias planted to SE & SW.	2	1.6	PP_Undersize	CoPP agreed area - 78.3%	Within	78.3	None required		NA
128	*Lagunaria patersonia*	Norfolk Island Hibiscus	Maturing	Australian native	42,32,17	10 x 7	Good	Fair to Poor	Mod.B	21 to 40	Incipient decay, past stem failure, trunk wounds, ne.	6.7	2.9	DDO10, PP_LL_permit	CoPP agreed area - 100.0%	Within	100	None required		NA
129	*Allocasuarina verticillata*	Drooping She-oak	Early-mature	Indigenous (Planted)	17	4 x 5	Fair	Fair	Mod.B	21 to 40	Trunk kink, Young Coast Banksias planted to SE & SW.	2	1.6	PP_Undersize	CoPP agreed area - 66.9%	Within	66.9	None required		NA
130	*Allocasuarina verticillata*	Drooping She-oak	Early-mature	Indigenous (Planted)	17	5 x 5	Fair	Fair to Poor	Mod.C	11 to 20	Crossing branches. Young Coast Banksias planted to SE & SW.	2	1.7	PP_Undersize	CoPP agreed area - 68.5%	Within	68.5	None required		NA
131	*Allocasuarina verticillata*	Drooping She-oak	Early-mature	Indigenous (Planted)	17	4 x 5	Fair	Fair	Mod.C	21 to 40	Young Coast Banksias planted to SE & SW.	2	1.7	PP_Undersize	CoPP agreed area - 76.9%	Within	76.9	None required		NA
132	*Allocasuarina verticillata*	Drooping She-oak	Early-mature	Indigenous (Planted)	16	3 x 5	Fair	Fair	Mod.C	21 to 40	Young Coast Banksias planted to SE.	2	1.5	PP_Undersize	CoPP agreed area - 79.77%	Within	79.77	None required		NA
133	*Allocasuarina verticillata*	Drooping She-oak	Early-mature	Indigenous (Planted)	22 @1.0m	5 x 6	Fair	Fair	Mod.B	21 to 40	Young Coast Banksias planted to SE & SW.	2.6	1.8	PP_Undersize	CoPP agreed area - 77.55%	Within	77.55	None required		NA
134	*Allocasuarina verticillata*	Drooping She-oak	Semi-mature	Indigenous (Planted)	15,14	4 x 5	Good	Fair	Mod.B	21 to 40	Young Coast Banksias planted to SE & SW.	2.5	1.7	PP_Undersize	CoPP agreed area - 78.94%	Within	78.94	None required		NA

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treeid	species	comm_name	age_class	origin_typ	dbh_cm	height x width (m)	health	structure	arb_rating	ule_yrs	comments	tpz_rad_m	sz_rad_m	LL_permit	Impact_name	Impact_%	%TPZ_enc	works class	rec_works	priority
135	*Lagunaria patersonia*	Norfolk Island Hibiscus	Early-mature	Australian native	34	9 x 7	Fair	Fair	Mod.B	11 to 20		4.1	2.3	BS_Undersize	NA	None	0	None required		NA
136	*Banksia integrifolia*	Coast Banksia	Semi-mature	Indigenous (Planted)	13	3 x 3	Fair	Fair	Mod.C	>40		2	1.6	PP_Undersize	CoPP agreed area - 28.62%,CoPP agreed area - 73.44%	Within	100.01	None required		NA
137	*Banksia integrifolia*	Coast Banksia	Semi-mature	Indigenous (Planted)	11	3 x 2	Fair	Fair	Mod.C	>40		2	1.5	PP_Undersize	CoPP agreed area - 31.26%,CoPP agreed area - 70.58%	Within	100.01	None required		NA
138	*Quercus palustris*	Pin Oak	Early-mature	Exotic deciduous	18	6 x 6	Fair	Fair	Mod.B	21 to 40		2.2	1.8	BS_Undersize	NA	None	0	None required		NA
139	*Banksia integrifolia*	Coast Banksia	Semi-mature	Indigenous (Planted)	14	4 x 3	Fair	Fair	Mod.C	>40		2	1.6	PP_Undersize	CoPP agreed area - 38.12%,CoPP agreed area - 63.22%	Within	100.01	None required		NA
140	*Lagunaria patersonia*	Norfolk Island Hibiscus	Early-mature	Australian native	33	7 x 5	Fair	Fair	Mod.B	21 to 40		4	2.3	BS_Undersize	NA	None	0	None required		NA
141	*Banksia integrifolia*	Coast Banksia	Semi-mature	Indigenous (Planted)	14 @1.0m	4 x 3	Fair	Fair	Mod.C	>40		2	1.6	PP_Undersize	CoPP agreed area - 42.92%,CoPP agreed area - 57.54%	Within	100.01	None required		NA
142	*Allocasuarina verticillata*	Drooping She-oak	Young	Indigenous (Planted)	3	1 x 1	Fair	Fair to Poor	Low	6 to 10	Lopped.	2	1.5	BS_Undersize	NA	None	0	None required		NA
143	*Allocasuarina verticillata*	Drooping She-oak	Early-mature	Indigenous (Planted)	16	4 x 4	Fair	Fair	Mod.B	21 to 40		2	1.6	PP_Undersize	CoPP agreed area - 94.01%,CoPP agreed area - 6.19%	Within	100.01	None required		NA
144	*Allocasuarina verticillata*	Drooping She-oak	Young	Indigenous (Planted)	3	2 x 1	Fair	Fair	Mod.C	11 to 20		2	1.5	BS_Undersize	NA	None	0	None required		NA
145	*Allocasuarina verticillata*	Drooping She-oak	Semi-mature	Indigenous (Planted)	16	5 x 5	Fair	Fair	Mod.C	21 to 40	Young Coast Banksias planted to SW.	2	1.7	PP_Undersize	CoPP agreed area - 100.01%	Within	100.01	None required		NA
146	*Allocasuarina verticillata*	Drooping She-oak	Semi-mature	Indigenous (Planted)	12	2 x 2	Fair	Fair to Poor	Mod.C	11 to 20	Trunk leaning, se. Stunted.	2	1.5	PP_Undersize	CoPP agreed area - 100.01%	Within	100.01	None required		NA
147	*Platanus Xacerifolia*	London Plane	Young	Exotic deciduous	1	2 x 1	Fair to Poor	Fair	Mod.C	11 to 20		2	1.5	BS_Undersize	NA	None	0	None required		NA
148	*Araucaria heterophylla*	Norfolk Island Pine	Early-mature	Australian conifer	31	11 x 7	Good	Fair	Mod.B	21 to 40		3.7	2.2	BS_Undersize	NA	None	0	None required		NA
149	*Pyrus calleryana*	Callery's Pear	Early-mature	Exotic deciduous	30 (est.)	7 x 10	Fair	Fair	Mod.B	11 to 20	Neighbour's tree. In raised bed.	3.6	2.1	BS_Undersize	New Culvert - 45.3%,North Workzone - 62.89%,Road crossing - 62.89%	Within	62.89	None required		NA
150	*Gleditsia triacanthos*	Honey Locust	Early-mature	Exotic deciduous	15	4 x 4	Fair	Fair	Mod.B	21 to 40		2	1.6	BS_Undersize	New Culvert - 84.36%,North Workzone - 100.01%,Road crossing - 29.75%	Within	100.01	None required		NA
151	*Gleditsia triacanthos*	Honey Locust	Early-mature	Exotic deciduous	17	5 x 5	Fair	Fair	Mod.B	21 to 40		2	1.6	BS_Undersize	New Culvert - 100.01%,North Workzone - 100.01%,Road crossing - 100.01%	Within	100.01	None required		NA
152	*Gleditsia triacanthos*	Honey Locust	Early-mature	Exotic deciduous	17,13	5 x 6	Fair	Fair	Mod.B	21 to 40		2.6	1.6	BS_Undersize	New Culvert - 99.99%,North Workzone - 99.99%,Road crossing - 99.99%	Within	99.99	None required		NA
153	*Cupressus sempervirens 'Stricta'*	Pencil Pine	Maturing	Exotic conifer	60 (est.)	16 x 3	Fair	Fair	Mod.B	21 to 40		7.2	2.6	BS_LL_permit	New Culvert - 36.11%,North Workzone - 94.13%,Old drain - 57.59%,Road crossing - 96.84%	Within	100	None required		NA
154	*Eucalyptus sideroxylon*	Red Ironbark	Early-mature	Australian native	58	14 x 13	Fair	Fair	Mod.B	21 to 40	Possum grazing, reduced foliage density.	7	2.8	BS_LL_permit	New Culvert - 86.62%,North Workzone - 99.99%,Old drain - 5.96% / (Non-Contiguous Areas: New Culvert - 13.38%)	Within	100	None required		NA
155	*Eucalyptus botryoides*	Southern Mahogany	Maturing	Victorian native	86	24 x 17	Fair	Fair	Mod.B	21 to 40	Habitat hollows, partly suppressed - crown bias, nth. Past clearance prune on Sth side.	10.3	3.2	BS_LL_permit	New Culvert - 53.11%,North Workzone - 64.82%,Road crossing - 4.23% / (Non-Contiguous Areas: New Culvert - 46.89%)	Within	100	None required		NA
156	*Acacia implexa*	Lightwood	Early-mature	Indigenous (Planted)	17,16	7 x 7	Fair	Fair to Poor	Mod.C	11 to 20		2.8	2.1	BS_Undersize	New Culvert - 100.0%,North Workzone - 100.0%	Within	100	None required		NA
157	*Hoheria populnea*	Lacebark	Early-mature	Exotic evergreen	25 (est.)	6 x 6	Fair	Fair	Mod.C	11 to 20	Neighbour's tree.	3	2	BS_Undersize	North Workzone - 1.15%	TPZ	1.15	None required		NA
158	*Grevillea sp.*	Grevillea	Early-mature	Australian native	13 @<=0.5m	2 x 4	Fair	Fair to Poor	Mod.C	11 to 20	Collapsed-still growing. G longistyla cultivar.	2	1.6	BS_Undersize	North Workzone - 100.01%	Within	100.01	None required		NA
159	*Eucalyptus ovata*	Swamp Gum	Early-mature	Indigenous (Planted)	33,24	12 x 10	Fair	Fair to Poor	Mod.C	11 to 20	Trunk leaning, nw.	4.9	2.4	BS_LL_permit	NA	None	0	None required		NA
160	*Eucalyptus botryoides*	Southern Mahogany	Maturing	Victorian native	88	24 x 20	Fair	Fair	Mod.B	11 to 20	Over-extended limbs developing, nth.	10.6	3.2	BS_LL_permit	NA	None	0	None required		NA
161	*Corymbia maculata*	Spotted Gum	Early-mature	Victorian native	35	15 x 12	Fair to Poor	Fair	Mod.B	21 to 40	Suppressed.	4.2	2.4	BS_Undersize	NA	None	0	None required		NA
162	*Corymbia maculata*	Spotted Gum	Early-mature	Victorian native	28	13 x 7	Fair	Fair	Mod.B	21 to 40		3.4	2.1	BS_Undersize	NA	None	0	None required		NA

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treeid	species	comm_name	age_class	origin_typ	dbh_cm	height x width (m)	health	structure	arb_rating	ule_yrs	comments	tpz_rad_m	srz_rad_m	LL_Permit	Impact_name	Impact	%TPZ_enc	works class	rec_works	priority
163	*Corymbia maculata*	Spotted Gum	Early-mature	Victorian native	38	12 x 14	Fair	Fair	Mod.A	>40		4.6	2.4	BS_Undersize	NA	None	0	None required		NA
164	*Acacia implexa*	Lightwood	Semi-mature	Indigenous (Planted)	9	3 x 2	Fair	Fair	Mod.C	11 to 20		2	1.5	BS_Undersize	NA	None	0	None required		NA
165	*Corymbia citriodora*	Lemon-scented Gum	Early-mature	Australian native	36	13 x 10	Fair to Poor	Fair	Mod.B	21 to 40		4.3	2.3	BS_Undersize	NA	None	0	None required		NA
166	*Eucalyptus camaldulensis*	River Red Gum	Semi-mature	Indigenous (Planted)	15	4 x 4	Fair	Fair	Mod.C	>40		2	1.7	BS_Undersize	NA	None	0	None required		NA
167	*Eucalyptus melliodora*	Yellow Box	Early-mature	Indigenous (Planted)	29,19	11 x 8	Fair	Fair to Poor	Mod.C	21 to 40	Included bark forks w compression flaring. Reduce lesser co-dominant stem	4.2	2.2	BS_LL_permit	NA	None	0	Selective pruning	Reduce lesser co-dominant stem	Med
168	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	31	9 x 9	Fair	Fair	Mod.B	>40		3.7	2.3	BS_Undersize	NA	None	0	None required		NA
169	*Eucalyptus melliodora*	Yellow Box	Early-mature	Indigenous (Planted)	52	15 x 12	Fair	Fair to Poor	Mod.B	21 to 40	Co-dominant stems w compression flaring. Reduce lesser co-dominant stem	6.2	2.2	BS_LL_permit	NA	None	0	Selective pruning	Reduce lesser co-dominant stem	Med
170	*Eucalyptus leucoxylon 'Rosea'*	Pink-flowered Yellow Gum	Semi-mature	Australian native	12	5 x 4	Fair	Fair	Mod.B	>40		2	1.5	BS_Undersize	NA	None	0	None required		NA
171	*Eucalyptus ovata*	Swamp Gum	Early-mature	Indigenous (Planted)	36	9 x 9	Fair	Fair	Mod.B	21 to 40	Partly suppressed - crown bias, over-extended limbs developing, nth.	4.3	2.3	BS_Undersize	NA	None	0	None required		NA
172	*Allocasuarina verticillata*	Drooping She-oak	Early-mature	Indigenous (Planted)	19	6 x 4	Fair	Fair	Mod.B	21 to 40		2.3	1.8	BS_Undersize	North Workzone - 100.01%	Within	100.01	None required		NA
173	*Acacia implexa*	Lightwood	Early-mature	Indigenous (Planted)	23	6 x 5	Fair	Fair	Mod.B	21 to 40		2.8	1.9	BS_Undersize	North Workzone - 100.0%	Within	100	None required		NA
174	*Bursaria spinosa*	Sweet Bursaria	Early-mature	Indigenous (Planted)	16,15,10	5 x 6	Fair	Fair to Poor	Mod.C	11 to 20	Vine infested. Remove vines	2.9	1.9	BS_Undersize	North Workzone - 100.0%	Within	100	Crown maintenance	Remove vines	Med
175	*Myoporum insulare*	Boobialla	Semi-mature	Indigenous (Planted)	10,9,8	2 x 5	Fair	Fair to Poor	Mod.C	11 to 20	Sprawling shrub.	2	1.6	BS_Undersize	New Culvert - 84.01%,North Workzone - 100.01%	Within	100.01	None required		NA
176	*Acacia melanoxylon*	Blackwood	Semi-mature	Indigenous (Planted)	13	5 x 4	Fair	Fair	Mod.C	21 to 40		2	1.6	BS_Undersize	New Culvert - 66.27%,North Workzone - 100.01%	Within	100.01	None required		NA
177	*Bursaria spinosa*	Sweet Bursaria	Early-mature	Indigenous (Planted)	13,11,10	5 x 6	Fair	Fair	Mod.C	21 to 40		2.4	1.8	BS_Undersize	North Workzone - 99.99%	Within	99.99	None required		NA
178	*Acacia melanoxylon*	Blackwood	Semi-mature	Indigenous (Planted)	12	4 x 3	Dead	Poor	Very Low	<1		2	1.6	BS_Undersize	New Culvert - 64.89%,North Workzone - 100.01%	Within	100.01	None required		NA
179	*Acacia implexa*	Lightwood	Maturing	Indigenous (Planted)	34	10 x 7	Fair	Fair to Poor	Mod.C	11 to 20	Peppercorn tree at Sth base.	4.1	2.3	BS_Undersize	New Culvert - 41.32%,North Workzone - 99.99%	Within	99.99	None required		NA
180	*Eucalyptus ovata*	Swamp Gum	Early-mature	Indigenous (Planted)	37	8 x 8	Fair to Poor	Fair to Poor	Mod.C	11 to 20	Minor dieback.	4.4	2.5	BS_Undersize	North Workzone - 100.01%,Old drain - 100.01%	Within	100.01	None required		NA
181	*Bursaria spinosa*	Sweet Bursaria	Early-mature	Indigenous (Planted)	16,12,11	5 x 6	Good	Fair	Mod.B	21 to 40	Clipped for path clearance.	2.7	2.1	BS_Undersize	North Workzone - 100.01%,Old drain - 93.22%	Within	100.01	None required		NA
182	*Acacia implexa*	Lightwood	Early-mature	Indigenous (Planted)	20	6 x 5	Fair to Poor	Fair to Poor	Low	6 to 10	Canker/galls. Dieback assoc w fasciation.	2.4	1.8	BS_Undersize	North Workzone - 99.99%,Old drain - 99.99%	Within	99.99	None required		NA
183	*Acacia implexa*	Lightwood	Early-mature	Indigenous (Planted)	14,8,7	6 x 4	Fair to Poor	Fair to Poor	Mod.C	11 to 20	Canker/galls, multi-stemmed, trunk leaning, west.	2	1.7	BS_Undersize	Crane - 86.28%,North Workzone - 13.73%	Within	100.01	None required		NA
184	*Acacia implexa*	Lightwood	Early-mature	Indigenous (Planted)	24,21	8 x 6	Fair to Poor	Fair to Poor	Low	6 to 10	Canker/galls. Dieback assoc w fasciation.	3.8	2.3	BS_Undersize	Crane - 24.92%,North Workzone - 75.09%,Old drain - 50.46%	Within	100.01	None required		NA
185	*Melaleuca styphelioides*	Prickly-leaved Paperbark	Early-mature	Australian native	16,13,10,10	5 x 5	Fair	Fair	Mod.C	21 to 40		3	2.1	BS_LL_permit	Crane - 100.01%	Within	100.01	None required		NA
186	*Acacia implexa*	Lightwood	Early-mature	Indigenous (Planted)	16	7 x 4	Fair to Poor	Fair to Poor	Low	6 to 10	Canker/galls. Dieback assoc w fasciation.	2	1.8	BS_Undersize	North Workzone - 100.01%,Old drain - 100.01%	Within	100.01	None required		NA
187	*Acacia implexa*	Lightwood	Maturing	Indigenous (Planted)	27	8 x 7	Poor	Fair to Poor	Low	1 to 5	Canker/galls, declining. Dieback assoc w fasciation.	3.2	2.1	BS_Undersize	North Workzone - 99.99%,Old drain - 99.99%	Within	99.99	None required		NA
188	*Bursaria spinosa*	Sweet Bursaria	Early-mature	Indigenous (Planted)	13,12,11,9	4 x 5	Fair	Fair	Mod.C	11 to 20		2.5	2	BS_Undersize	North Workzone - 99.98%,Old drain - 99.98%	Within	99.98	None required		NA
189	*Eucalyptus ovata*	Swamp Gum	Semi-mature	Indigenous (Planted)	16	6 x 5	Poor	Poor	Low	6 to 10	Main leader dead.	2	1.7	BS_Undersize	Crane - 84.59%,North Workzone - 15.42%	Within	100.01	None required		NA
190	*Acacia implexa*	Lightwood	Early-mature	Indigenous (Planted)	18	6 x 4	Fair to Poor	Fair to Poor	Mod.C	11 to 20	Canker/galls.	2.2	1.8	BS_Undersize	Crane - 99.99%	Within	99.99	None required		NA
191	*Bursaria spinosa*	Sweet Bursaria	Early-mature	Indigenous (Planted)	9,8,8	3 x 3	Fair	Fair	Mod.C	11 to 20		2	1.6	BS_Undersize	Crane - 100.01%	Within	100.01	None required		NA
192	*Bursaria spinosa*	Sweet Bursaria	Early-mature	Indigenous (Planted)	8,7	4 x 4	Fair	Fair	Mod.C	11 to 20		2	1.7	BS_Undersize	Crane - 0.94%,North Workzone - 99.07%	Within	100.01	None required		NA
193	*Acacia melanoxylon*	Blackwood	Early-mature	Indigenous (Planted)	10,8,7	4 x 4	Fair	Fair to Poor	Mod.C	11 to 20	Multi-stemmed.	2	1.8	BS_Undersize	Crane - 100.01%	Within	100.01	None required		NA
194	*Eucalyptus melliodora*	Yellow Box	Semi-mature	Indigenous (Planted)	16	7 x 5	Good	Fair	Mod.B	>40		2	1.6	BS_Undersize	Crane - 81.65%,North Workzone - 18.35%	Within	100.01	None required		NA

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treeid	species	comm_name	age_class	origin_typ	dbh_cm	height x width (m)	health	structure	arb_rating	ule_yrs	comments	tpz_rad_m	srz_rad_m	TLL_Permit	Impact name	Impact	%TPZ effected	works class	rec_works	priority
195	*Bursaria spinosa*	Sweet Bursaria	Early-mature	Indigenous (Planted)	10,9,8	4 x 3	Fair	Fair	Mod.C	11 to 20		2	1.6	BS_Undersize	Crane - 100.01%	Within	100.01	None required		NA
196	*Allocasuarina littoralis*	Black She-oak	Early-mature	Indigenous (Planted)	17	5 x 4	Fair	Fair	Mod.B	21 to 40		2	1.8	BS_Undersize	Crane - 100.01%	Within	100.01	None required		NA
197	*Acacia implexa*	Lightwood	Early-mature	Indigenous (Planted)	20	9 x 4	Poor	Fair to Poor	Low	6 to 10	Canker/galls, included bark forksw compression flaring. Dieback assoc w fasciation.	2.4	1.9	BS_Undersize	Crane - 99.99%	Within	99.99	None required		NA
198	*Acacia melanoxylon*	Blackwood	Semi-mature	Indigenous (Planted)	15	6 x 5	Fair	Fair to Poor	Mod.C	11 to 20	Partly suppressed - crown bias, se. Rubbing Swamp Gum to Nth.	2	1.7	BS_Undersize	Crane - 86.85%,North Workzone - 13.16%	Within	100.01	None required		NA
199	*Eucalyptus ovata*	Swamp Gum	Early-mature	Indigenous (Planted)	20,16,15	9 x 8	Poor	Poor	Low	1 to 5	Declining, main leader dead, multi-stemmed.	3.6	2.5	BS_LL_permit	Crane - 57.1%,North Workzone - 42.9%,Old drain - 5.97%	Within	99.99	None required		NA
200	*Bursaria spinosa*	Sweet Bursaria	Early-mature	Indigenous (Planted)	10,10,8	4 x 4	Fair	Fair	Mod.C	11 to 20		2	1.7	BS_Undersize	Crane - 20.97%,North Workzone - 79.03%,Old drain - 3.53%	Within	100.01	None required		NA
201	*Acacia melanoxylon*	Blackwood	Semi-mature	Indigenous (Planted)	11,10,9,9	4 x 4	Fair	Fair to Poor	Mod.C	11 to 20	Multi-stemmed.	2	1.8	BS_Undersize	Crane - 3.1%,North Workzone - 96.91%,Old drain - 54.3%	Within	100.01	None required		NA
202	*Eucalyptus ovata*	Swamp Gum	Semi-mature	Indigenous (Planted)	40	9 x 8	Fair	Fair to Poor	Mod.C	11 to 20	Incipient decay, limb wounds, past stem failure.	4.8	2.5	BS_Undersize	Crane - 3.18%,North Workzone - 96.82%,Old drain - 66.3%	Within	100	None required		NA
203	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	37	9 x 9	Fair	Fair	Mod.B	>40	Partly suppressed - crown bias, nw.	4.4	2.3	BS_Undersize	North Workzone - 100.01%,Old drain - 37.62%	Within	100.01	None required		NA
204	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	37	11 x 9	Fair	Fair	Mod.B	>40		4.4	2.3	BS_Undersize	North Workzone - 100.01%	Within	100.01	None required		NA
205	*Eucalyptus melliodora*	Yellow Box	Early-mature	Indigenous (Planted)	23,16	7 x 6	Fair	Fair	Mod.B	>40	Partly suppressed - crown bias, nth.	3.4	2.1	BS_Undersize	North Workzone - 100.0%,Old drain - 74.09%	Within	100	None required		NA
206	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	28	9 x 5	Fair	Fair	Mod.B	>40		3.4	2	BS_Undersize	North Workzone - 98.04%,Old drain - 4.23%	Within	98.04	None required		NA
207	*Acacia mearnsii*	Late Black Wattle	Over-mature	Indigenous (Planted)	28,13	10 x 6	Poor	Poor	Low	1 to 5	Borers, in irreversible decline, partly suppressed - crown bias, nw.	3.7	2.4	BS_Undersize	North Workzone - 75.99%,Old drain - 35.38%	Within	76.07	None required		NA
208	*Eucalyptus cornuta*	Yate	Early-mature	Australian native	28	13 x 10	Fair	Fair	Mod.B	21 to 40		3.4	2.3	BS_Undersize	North Workzone - 55.76%,Old drain - 15.03%	Within	55.84	None required		NA
209	*Eucalyptus melliodora*	Yellow Box	Early-mature	Indigenous (Planted)	47	14 x 9	Fair	Fair to Poor	Mod.B	21 to 40	Co-dominant stems w compression flaring, partly suppressed - crown bias-NE. Reduce lesser co-dominant stem	5.6	2.4	BS_Undersize	North Workzone - 61.45%,Old drain - 47.96%	SRZ	61.59	Selective pruning	Reduce lesser co-dominant stem	Med
210	*Acacia melanoxylon*	Blackwood	Semi-mature	Indigenous (Planted)	12	3 x 2	Fair	Fair	Mod.C	11 to 20		2	1.5	BS_Undersize	NA	None	0	None required		NA
211	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	47	11 x 9	Fair	Fair	Mod.B	>40		5.6	2.6	BS_Undersize	NA	None	0	None required		NA
212	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	50	11 x 10	Good	Fair	Mod.A	>40		6	2.7	BS_LL_permit	NA	None	0	None required		NA
213	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	55	13 x 12	Fair	Fair	Mod.A	>40	Over-extended limbs developing.	6.6	2.8	BS_LL_permit	NA	None	0	None required		NA
214	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	68 @1.0m	15 x 12	Good	Fair	Mod.A	>40		8.2	3	BS_LL_permit	North Workzone - 0.68%,Old drain - 0.7%	TPZ	0.7	None required		NA
215	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	59,25,16	14 x 10	Good	Fair	Mod.A	>40	Deadwood.	7.9	3	BS_LL_permit	Crane - 7.27%,North Workzone - 38.55% / (Non-Contiguous Areas: North Workzone - 7.27%)	SRZ	45.83	None required		NA
216	*Eucalyptus camaldulensis*	River Red Gum	Semi-mature	Indigenous (Planted)	11 (est.)	6 x 3	Fair	Fair	Mod.C	>40	Natural recruitment.	2	1.5	BS_Undersize	NA	None	0	None required		NA
217	*Acacia melanoxylon*	Blackwood	Early-mature	Indigenous (Planted)	12,12,11,10	5 x 4	Fair	Fair	Mod.C	11 to 20	Leaning trunk. Cluster of 4 trees.	2.7	1.6	BS_Undersize	North Workzone - 6.13%	TPZ	6.13	None required		NA
218	*Eucalyptus melliodora*	Yellow Box	Early-mature	Indigenous (Planted)	27	7 x 4	Poor	Poor	Low	1 to 5	Declining, main leader dead.	3.2	2.1	BS_Undersize	North Workzone - 92.27%	Within	92.27	None required		NA
219	*Eucalyptus melliodora*	Yellow Box	Early-mature	Indigenous (Planted)	30 (est.)	10 x 6	Dead	Very Poor	Very Low	<1		3.6	2.1	BS_Undersize	North Workzone - 34.44%	SRZ	34.44	None required		NA
220	*Eucalyptus melliodora*	Yellow Box	Early-mature	Indigenous (Planted)	30	11 x 8	Fair	Fair	Mod.B	21 to 40	Girdling root.	3.6	2.3	BS_Undersize	North Workzone - 75.17%,Old drain - 8.29%	Within	75.17	None required		NA
221	*Eucalyptus melliodora*	Yellow Box	Early-mature	Indigenous (Planted)	30	15 x 8	Fair	Fair	Mod.B	21 to 40		3.6	2.1	BS_Undersize	North Workzone - 81.8%,Old drain - 24.41%	Within	81.8	None required		NA
222	*Eucalyptus melliodora*	Yellow Box	Early-mature	Indigenous (Planted)	40	15 x 8	Fair	Fair to Poor	Mod.C	21 to 40	Congested primary union. At 7m.	4.8	2.4	BS_Undersize	North Workzone - 54.42%,Old drain - 20.31%	Within	54.42	None required		NA
223	*Eucalyptus ovata*	Swamp Gum	Early-mature	Indigenous (Planted)	35 (est.)	10 x 8	Poor	Poor	Low	6 to 10	Epicormic shoots, past branch failure, reduced foliage density, trunk wounds.	4.2	2.4	BS_Undersize	North Workzone - 4.15%	TPZ	4.15	None required		NA
224	*Eucalyptus ovata*	Swamp Gum	Early-mature	Indigenous (Planted)	30	8 x 8	Fair to Poor	Fair to Poor	Mod.C	11 to 20	Leaning trunk, reduced foliage density.	3.6	2.1	BS_Undersize	NA	None	0	None required		NA

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225	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	65	14 x 14	Fair	Fair	Mod.A	>40		7.8	3	BS_LL_permit	Both Work zone & Grade 5% drain - 1.96%	TPZ	2.78	None required		NA
226	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	38	11 x 7	Fair	Fair to Poor	Mod.B	21 to 40	Past limb failure, trunk wounds.	4.6	2.5	BS_Undersize	NA	None	0	None required		NA
227	*Eucalyptus camaldulensis*	River Red Gum	Young	Indigenous (Planted)	8	4 x 2	Fair	Fair	Mod.C	>40		2	1.5	BS_Undersize	NA	None	0	None required		NA
228	*Eucalyptus camaldulensis*	River Red Gum	Semi-mature	Indigenous (Planted)	32	10 x 6	Fair	Fair	Mod.B	>40		3.8	2.2	BS_Undersize	NA	None	0	None required		NA
229	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	45 (est.)	15 x 8	Fair	Fair	Mod.B	>40		5.4	2.5	BS_Undersize	NA	None	0	None required		NA
230	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	40	14 x 8	Fair	Fair to Poor	Mod.C	21 to 40	Past branch failure.	4.8	2.4	BS_Undersize	NA	None	0	None required		NA
231	*Eucalyptus camaldulensis*	River Red Gum	Maturing	Indigenous (Planted)	64	18 x 12	Fair	Fair	Mod.A	>40	Exposed roots.	7.7	2.9	BS_LL_permit	NA	None	0	None required		NA
232	*Eucalyptus camaldulensis*	River Red Gum	Young	Indigenous (Planted)	8	6 x 2	Fair	Fair	Mod.C	>40		2	3.3	BS_Undersize	NA	None	0	None required		NA
233	*Eucalyptus camaldulensis*	River Red Gum	Young	Indigenous (Planted)	7	4 x 2	Fair	Fair	Mod.C	>40		2	1.5	BS_Undersize	NA	None	0	None required		NA
234	*Eucalyptus camaldulensis*	River Red Gum	Maturing	Indigenous (Planted)	40,35 (est.)	9 x 15	Fair	Fair to Poor	Mod.B	>40	Past branch failure, past limb failure. Low canopy.	6.4	2.6	BS_LL_permit	NA	None	0	None required		NA
235	*Eucalyptus camaldulensis*	River Red Gum	Semi-mature	Indigenous (Planted)	20	12 x 5	Fair	Fair	Mod.C	>40		2.4	1.8	BS_Undersize	NA	None	0	None required		NA
236	*Eucalyptus camaldulensis*	River Red Gum	Semi-mature	Indigenous (Planted)	30	13 x 8	Fair	Fair	Mod.B	>40		3.6	2.3	BS_Undersize	NA	None	0	None required		NA
237	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	40 (est.)	16 x 8	Fair	Fair	Mod.B	>40		4.8	2.5	BS_Undersize	NA	None	0	None required		NA
238	*Eucalyptus camaldulensis*	River Red Gum	Maturing	Indigenous (Planted)	51	13 x 13	Fair	Fair	Mod.B	21 to 40		6.1	2.7	BS_LL_permit	NA	None	0	None required		NA
239	*Eucalyptus camaldulensis*	River Red Gum	Maturing	Indigenous (Planted)	52	16 x 10	Fair	Fair	Mod.A	>40		6.2	2.7	BS_LL_permit	NA	None	0	None required		NA
240	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	32	12 x 8	Fair	Fair	Mod.C	21 to 40		3.8	2.3	BS_Undersize	NA	None	0	None required		NA
241	*Eucalyptus camaldulensis*	River Red Gum	Young	Indigenous (Planted)	5	3 x 2	Fair	Fair	Mod.C	>40		2	1.5	BS_Undersize	NA	None	0	None required		NA
242	*Eucalyptus camaldulensis*	River Red Gum	Maturing	Indigenous (Planted)	59	16 x 10	Fair	Fair	Mod.A	>40		7.1	2.8	BS_LL_permit	NA	None	0	None required		NA
243	*Eucalyptus camaldulensis*	River Red Gum	Young	Indigenous (Planted)	5	3 x 2	Fair	Fair	Mod.C	>40		2	1.5	BS_Undersize	NA	None	0	None required		NA
244	*Eucalyptus melliodora*	Yellow Box	Early-mature	Indigenous (Planted)	37	14 x 8	Fair	Fair	Mod.B	21 to 40		4.4	2.4	BS_Undersize	NA	None	0	None required		NA
245	*Eucalyptus melliodora*	Yellow Box	Semi-mature	Indigenous (Planted)	27	14 x 8	Fair	Fair	Mod.B	21 to 40		3.2	2.1	BS_Undersize	NA	None	0	None required		NA
246	*Eucalyptus melliodora*	Yellow Box	Semi-mature	Indigenous (Planted)	27	14 x 8	Fair	Fair	Mod.B	21 to 40		3.2	2.1	BS_Undersize	NA	None	0	None required		NA
247	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	39	15 x 10	Fair to Poor	Fair to Poor	Mod.C	21 to 40	Chlorotic foliage.	4.7	2.4	BS_Undersize	NA	None	0	None required		NA
248	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	42	15 x 10	Fair	Fair	Mod.B	21 to 40		5	2.5	BS_Undersize	NA	None	0	None required		NA
249	*Eucalyptus camaldulensis*	River Red Gum	Maturing	Indigenous (Planted)	60	17 x 12	Fair	Fair	Mod.A	>40		7.2	3.1	BS_LL_permit	NA	None	0	None required		NA
250	*Eucalyptus camaldulensis*	River Red Gum	Semi-mature	Indigenous (Planted)	15	6 x 10	Fair	Fair to Poor	Mod.C	21 to 40	Suppressed.	2	1.7	BS_Undersize	NA	None	0	None required		NA
251	*Eucalyptus camaldulensis*	River Red Gum	Maturing	Indigenous (Planted)	45	13 x 10	Fair	Fair	Mod.B	21 to 40		5.4	2.7	BS_Undersize	NA	None	0	None required		NA
252	*Eucalyptus camaldulensis*	River Red Gum	Young	Indigenous (Planted)	5	4 x 2	Fair	Fair	Mod.C	>40		2	1.5	BS_Undersize	NA	None	0	None required		NA
253	*Eucalyptus ovata*	Swamp Gum	Early-mature	Indigenous (Planted)	37	10 x 8	Fair	Fair to Poor	Mod.C	11 to 20	Exposed roots, trunk wounds.	4.4	2.5	BS_Undersize	NA	None	0	None required		NA
254	*Eucalyptus camaldulensis*	River Red Gum	Maturing	Indigenous (Planted)	55	10 x 10	Fair	Fair to Poor	Mod.B	21 to 40	Low canopy. Clearance pruning - pedestrian	6.6	2.7	BS_LL_permit	NA	None	0	Clearance pruning	Clearance pruning - pedestrian	Med
255	*Eucalyptus melliodora*	Yellow Box	Maturing	Indigenous (Planted)	46	15 x 12	Fair	Fair to Poor	Mod.C	21 to 40	Past limb failure.	5.5	2.6	BS_Undersize	NA	None	0	None required		NA
256	*Eucalyptus melliodora*	Yellow Box	Early-mature	Indigenous (Planted)	34 @0.8m	9 x 10	Fair	Fair	Mod.C	21 to 40		4.1	2.3	BS_Undersize	NA	None	0	None required		NA
257	*Eucalyptus melliodora*	Yellow Box	Maturing	Indigenous (Planted)	51	14 x 10	Fair	Fair	Mod.B	21 to 40		6.1	2.6	BS_LL_permit	NA	None	0	None required		NA
258	*Eucalyptus camaldulensis*	River Red Gum	Semi-mature	Indigenous (Planted)	12	5 x 3	Fair	Fair	Mod.C	>40	Natural recruitment plus 2 mor saplings within 1m.	2	1.5	BS_Undersize	NA	None	0	None required		NA
259	*Eucalyptus camaldulensis*	River Red Gum	Semi-mature	Indigenous (Planted)	11	5 x 3	Fair	Fair	Mod.C	>40		2	1.5	BS_Undersize	NA	None	0	None required		NA
260	*Eucalyptus ovata*	Swamp Gum	Early-mature	Indigenous (Planted)	33,32 (est.)	6 x 9	Fair	Fair to Poor	Mod.B	11 to 20		5.5	2.4	BS_LL_permit	NA	None	0	None required		NA
261	*Eucalyptus camaldulensis*	River Red Gum	Young	Indigenous (Planted)	8	5 x 2	Fair	Fair	Mod.C	>40		2	1.5	BS_Undersize	NA	None	0	None required		NA

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262	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	45	14 x 14	Good	Fair	Mod.A	>40		5.4	2.6	BS_Undersize	NA	None	0	None required		NA
263	*Eucalyptus camaldulensis*	River Red Gum	Young	Indigenous (Planted)	8	5 x 2	Fair	Fair	Mod.C	>40		2	3.3	BS_Undersize	NA	None	0	None required		NA
264	*Eucalyptus camaldulensis*	River Red Gum	Young	Indigenous (Planted)	10	5 x 3	Fair	Fair	Mod.C	>40		2	1.5	BS_Undersize	NA	None	0	None required		NA
265	*Eucalyptus camaldulensis*	River Red Gum	Young	Indigenous (Planted)	10	6 x 3	Fair	Fair	Mod.C	>40		2	1.5	BS_Undersize	NA	None	0	None required		NA
266	*Eucalyptus camaldulensis*	River Red Gum	Young	Indigenous (Planted)	12	6 x 5	Fair	Fair	Mod.C	>40		2	1.5	BS_Undersize	NA	None	0	None required		NA
267	*Eucalyptus camaldulensis*	River Red Gum	Young	Indigenous (Planted)	12,6	5 x 4	Fair	Fair	Mod.C	>40		2	1.5	BS_Undersize	NA	None	0	None required		NA
268	*Eucalyptus camaldulensis*	River Red Gum	Young	Indigenous (Planted)	15 (est.)	5 x 4	Fair	Fair	Mod.C	>40		2	1.6	BS_Undersize	NA	None	0	None required		NA
269	*Casuarina cunninghamiana*	River She-oak	Young	Australian native	8	5 x 3	Fair	Fair	Low	11 to 20		2	1.5	BS_Undersize	NA	None	0	None required		NA
270	*Eucalyptus ovata*	Swamp Gum	Maturing	Indigenous (Planted)	63 (est.)	10 x 17	Good	Fair	Mod.A	21 to 40		7.6	2.9	BS_LL_permit	NA	None	0	None required		NA
271	*Eucalyptus ovata*	Swamp Gum	Maturing	Indigenous (Planted)	57	12 x 15	Fair	Fair to Poor	Mod.B	21 to 40	Past limb failure, trunk wounds, over-extended limbs developing-SE & NW. Reduce over-extended branch	6.8	2.8	BS_LL_permit	NA	None	0	Selective pruning	Reduce over-extended branch	Med
272	*Eucalyptus melliodora*	Yellow Box	Maturing	Indigenous (Planted)	41	20 x 10	Fair	Fair	Mod.B	21 to 40	Co-dominant stems.	4.9	2.5	BS_Undersize	NA	None	0	None required		NA
273	*Corymbia maculata*	Spotted Gum	Semi-mature	Victorian native	33	15 x 10	Fair	Fair	Mod.B	21 to 40	Exposed roots.	4	2.4	BS_Undersize	NA	None	0	None required		NA
274	*Eucalyptus camaldulensis*	River Red Gum	Maturing	Indigenous (Planted)	83	18 x 15	Fair to Poor	Fair	Mod.B	11 to 20	Bracket fungi, exposed roots.	10	3.3	BS_LL_permit	NA	None	0	None required		NA
275	*Corymbia maculata*	Spotted Gum	Maturing	Victorian native	45	15 x 12	Fair	Fair	Mod.B	21 to 40	Exposed roots.	5.4	2.5	BS_Undersize	NA	None	0	None required		NA
276	*Eucalyptus melliodora*	Yellow Box	Early-mature	Indigenous (Planted)	44	12 x 8	Fair	Fair	Mod.B	>40	Acute forks.	5.3	2.5	BS_Undersize	NA	None	0	None required		NA
277	*Eucalyptus melliodora*	Yellow Box	Early-mature	Indigenous (Planted)	41	11 x 9	Fair	Fair	Mod.B	21 to 40	Co-dominant stems.	4.9	2.4	BS_Undersize	NA	None	0	None required		NA
278	*Eucalyptus melliodora*	Yellow Box	Early-mature	Indigenous (Planted)	43	15 x 5	Fair	Fair	Mod.B	21 to 40	Co-dominant stems, included bark.	5.2	2.5	BS_Undersize	NA	None	0	None required		NA
279	*Eucalyptus melliodora*	Yellow Box	Early-mature	Indigenous (Planted)	30	12 x 6	Fair	Fair	Mod.B	21 to 40		3.6	2.2	BS_Undersize	NA	None	0	None required		NA
280	*Eucalyptus melliodora*	Yellow Box	Early-mature	Indigenous (Planted)	46	12 x 7	Fair	Fair	Mod.B	21 to 40		5.5	2.5	BS_Undersize	NA	None	0	None required		NA
281	*Eucalyptus melliodora*	Yellow Box	Early-mature	Indigenous (Planted)	62	12 x 9	Fair	Fair	Mod.B	21 to 40	Co-dominant forks.	7.4	2.6	BS_LL_permit	NA	None	0	None required		NA
282	*Eucalyptus melliodora*	Yellow Box	Early-mature	Indigenous (Planted)	35	9 x 5	Fair	Fair	Mod.B	21 to 40		4.2	2.3	BS_Undersize	NA	None	0	None required		NA
283	*Eucalyptus melliodora*	Yellow Box	Early-mature	Indigenous (Planted)	34	11 x 6	Fair	Fair	Mod.B	21 to 40		4.1	2.3	BS_Undersize	NA	None	0	None required		NA
284	*Eucalyptus ovata*	Swamp Gum	Early-mature	Indigenous (Planted)	44	10 x 10	Fair to Poor	Fair	Mod.C	21 to 40	Reduced foliage density.	5.3	2.5	BS_Undersize	NA	None	0	None required		NA
285	*Eucalyptus ovata*	Swamp Gum	Early-mature	Indigenous (Planted)	40	9 x 9	Fair	Fair	Mod.B	21 to 40		4.8	2.4	BS_Undersize	NA	None	0	None required		NA
286	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	84	16 x 12	Fair	Fair	Mod.A	>40	Crossing branches.	10.1	3.2	BS_LL_permit	NA	None	0	None required		NA
287	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	40	11 x 9	Fair	Fair	Mod.B	21 to 40		4.8	2.4	BS_Undersize	NA	None	0	None required		NA
288	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	87	15 x 16	Fair	Fair	Mod.A	>40		10.4	3.2	BS_LL_permit	NA	None	0	None required		NA
289	*Lophostemon confertus*	Brush Box	Early-mature	Australian native	25,20,15,10	6 x 6	Fair	Fair	Mod.B	11 to 20		4.4	2.2	BS_LL_permit	NA	None	0	None required		NA
290	*Eucalyptus camaldulensis*	River Red Gum	Maturing	Indigenous (Planted)	100	16 x 21	Good	Fair	Mod.A	>40		12	3.6	BS_LL_permit	NA	None	0	None required		NA
291	*Eucalyptus sideroxylon*	Red Ironbark	Early-mature	Australian native	67	13 x 12	Fair	Fair	Mod.B	21 to 40	Co-dominant stems w compression flaring.	8	2.8	BS_LL_permit	NA	None	0	None required		NA
292	*Corymbia maculata*	Spotted Gum	Early-mature	Victorian native	32	12 x 9	Fair	Fair	Mod.B	21 to 40		3.8	2.4	BS_Undersize	NA	None	0	None required		NA
293	*Corymbia maculata*	Spotted Gum	Early-mature	Victorian native	28	12 x 7	Fair	Fair	Mod.B	21 to 40		3.4	2	BS_Undersize	NA	None	0	None required		NA
294	*Corymbia maculata*	Spotted Gum	Early-mature	Victorian native	32	12 x 11	Fair	Fair	Mod.B	21 to 40		3.8	2.4	BS_Undersize	NA	None	0	None required		NA
295	*Grevillea robusta*	Silky Oak	Semi-mature	Australian native	26	10 x 5	Fair	Fair	Mod.C	21 to 40		3.1	2	BS_Undersize	NA	None	0	None required		NA
296	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	80	15 x 11	Fair	Fair	Mod.B	>40	Incipient decay, past branch failure, trunk wounds.	9.6	3.2	BS_LL_permit	NA	None	0	None required		NA
297	*Callistemon salignus*	Willow Bottlebrush	Semi-mature	Australian native	16	4 x 4	Fair	Fair	Mod.C	21 to 40	Acute forks.	2	1.8	BS_Undersize	NA	None	0	None required		NA

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298	*Corymbia maculata*	Spotted Gum	Early-mature	Victorian native	32	10 x 6	Fair	Fair	Mod.B	21 to 40		3.8	2.2	BS_Undersize	NA	None	0	None required		NA
299	*Corymbia maculata*	Spotted Gum	Early-mature	Victorian native	26	10 x 7	Fair	Fair	Mod.B	21 to 40		3.1	2	BS_Undersize	NA	None	0	None required		NA
300	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	57,55,40	16 x 13	Good	Fair	Mod.A	>40		10.6	3.4	BS_LL_permit	NA	None	0	None required		NA
301	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	42	14 x 8	Fair	Fair	Mod.B	21 to 40	Co-dominant forks.	5	2.5	BS_Undersize	NA	None	0	None required		NA
302	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	62	15 x 8	Fair	Fair	Mod.B	21 to 40	Mower damage to surface roots.	7.4	2.9	BS_LL_permit	NA	None	0	None required		NA
303	*Eucalyptus camaldulensis*	River Red Gum	Semi-mature	Indigenous (Planted)	11	5 x 2	Fair	Fair	Mod.C	>40		2	1.5	BS_Undersize	NA	None	0	None required		NA
304	*Eucalyptus camaldulensis*	River Red Gum	Semi-mature	Indigenous (Planted)	46	14 x 8	Fair	Fair	Mod.B	>40		5.5	2.6	BS_Undersize	NA	None	0	None required		NA
305	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	45	11 x 8	Fair	Fair	Mod.B	>40	Co-dominant stems, past branch failure.	5.4	2.5	BS_Undersize	NA	None	0	None required		NA
306	*Eucalyptus camaldulensis*	River Red Gum	Semi-mature	Indigenous (Planted)	12	5 x 2	Fair	Fair	Mod.C	>40		2	1.5	BS_Undersize	NA	None	0	None required		NA
307	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	57	17 x 9	Fair	Fair	Mod.B	>40	Co-dominant stems.	6.8	2.8	BS_LL_permit	NA	None	0	None required		NA
308	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	49	11 x 10	Good	Fair	Mod.A	>40		5.9	2.6	BS_LL_permit	NA	None	0	None required		NA
309	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	66	14 x 13	Good	Fair	Mod.A	>40	1 Girdling root.	7.9	3	BS_LL_permit	NA	None	0	None required		NA
310	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	47	11 x 10	Fair	Fair	Mod.A	>40	Deadwood.	5.6	2.7	BS_Undersize	North Workzone - 64.34%	Within	64.34	None required		NA
311	*Syzygium australe*	Scrub Cherry	Young	Australian native	8 @<=0.5m	2 x 1	Fair	Fair	Mod.C	21 to 40	Street tree.	2	1.5	BS_Undersize	North Workzone - 65.52%,Road crossing - 44.28%	Within	89.84	None required		NA
312	*Prunus cerasifera 'Nigra'*	Purple Leaf Cherry Plum	Maturing	Exotic deciduous	32 @0.8m	4 x 6	Fair	Fair to Poor	Mod.C	11 to 20	Street tree, suckers.	3.8	2.1	BS_Undersize	North Workzone - 63.65%	Within	63.65	None required		NA
313	*Corymbia ficifolia*	Red-flowering Gum	Early-mature	Australian native	19,14,13	3 x 5	Fair to Poor	Fair to Poor	Mod.C	11 to 20	Crossing branches, reduced foliage density.	3.2	1.8	BS_Undersize	North Workzone - 99.99%	Within	99.99	None required		NA
314	*Prunus cerasifera 'Nigra'*	Purple Leaf Cherry Plum	Maturing	Exotic deciduous	27 @<=0.5m	5 x 4	Fair	Poor	Mod.C	6 to 10	Basal wounds, incipient decay, street tree.	3.2	2.1	BS_Undersize	North Workzone - 42.74%	SRZ	42.74	None required		NA
315	*Lophostemon confertus*	Brush Box	Early-mature	Australian native	40	7 x 7	Good	Fair	Mod.B	>40		4.8	2.4	BS_Undersize	North Workzone - 15.12%	TPZ_Major	15.12	None required		NA
316	*Prunus cerasifera 'Nigra'*	Purple Leaf Cherry Plum	Maturing	Exotic deciduous	24 @0.8m	4 x 6	Fair	Fair to Poor	Mod.C	11 to 20	Basal wounds, street tree.	2.9	2.1	BS_Undersize	NA	None	0	None required		NA
317	*Lophostemon confertus*	Brush Box	Early-mature	Australian native	25	5 x 6	Fair	Fair	Mod.B	21 to 40	Partly suppressed - crown bias, nth.	3	2.1	BS_Undersize	NA	None	0	None required		NA
318	*Lophostemon confertus*	Brush Box	Early-mature	Australian native	33	7 x 7	Good	Fair	Mod.B	>40		4	2.3	BS_Undersize	NA	None	0	None required		NA
319	*Prunus cerasifera 'Nigra'*	Purple Leaf Cherry Plum	Maturing	Exotic deciduous	25 @0.8m	4 x 5	Fair to Poor	Fair to Poor	Mod.C	11 to 20	Basal wounds, incipient decay, street tree.	3	2.1	BS_Undersize	NA	None	0	None required		NA
320	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	45	11 x 9	Fair	Fair	Mod.B	>40	Co-dominant stems.	5.4	2.5	BS_Undersize	NA	None	0	None required		NA
321	*Lophostemon confertus*	Brush Box	Early-mature	Australian native	28	7 x 5	Fair	Fair	Mod.B	21 to 40	Partly suppressed - crown bias.	3.4	2.1	BS_Undersize	NA	None	0	None required		NA
322	*Melaleuca armillaris*	Bracelet Honey-myrtle	Early-mature	Victorian native	29,27	5 x 7	Fair to Poor	Fair to Poor	Low	6 to 10	Basal decay, basal wounds, cavity, deadwood.	4.8	2.3	BS_LL_permit	NA	None	0	None required		NA
323	*Lophostemon confertus*	Brush Box	Semi-mature	Australian native	21	6 x 5	Fair	Fair	Mod.C	21 to 40	Suppressed.	2.5	1.8	BS_Undersize	NA	None	0	None required		NA
324	*Melaleuca armillaris*	Bracelet Honey-myrtle	Early-mature	Victorian native	52	7 x 8	Fair	Fair to Poor	Mod.C	11 to 20	Deadwood.	6.2	2.7	BS_LL_permit	NA	None	0	None required		NA
325	*Cupressus sempervirens*	Italian Cypress	Early-mature	Exotic conifer	21,19,15,10,5	8 x 4	Fair	Fair to Poor	Mod.C	11 to 20	Congested primary union.	4	2.1	BS_LL_permit	NA	None	0	None required		NA
326	*Melaleuca armillaris*	Bracelet Honey-myrtle	Early-mature	Victorian native	28,28,25,25	5 x 7	Fair to Poor	Fair	Mod.C	11 to 20	Congested primary union, crossing branches.	6.4	3.4	BS_LL_permit	NA	None	0	None required		NA
327	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	38	12 x 10	Fair	Fair	Mod.B	21 to 40		4.6	2.5	BS_Undersize	NA	None	0	None required		NA
328	*Eucalyptus camaldulensis*	River Red Gum	Semi-mature	Indigenous (Planted)	20	12 x 5	Fair	Fair	Mod.C	>40		2.4	1.8	BS_Undersize	NA	None	0	None required		NA
329	*Eucalyptus camaldulensis*	River Red Gum	Semi-mature	Indigenous (Planted)	28	13 x 6	Fair	Fair	Mod.B	>40		3.4	2.2	BS_Undersize	NA	None	0	None required		NA
330	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	27,20,20	14 x 8	Fair	Fair	Mod.B	21 to 40		4.7	2.3	BS_LL_permit	NA	None	0	None required		NA
331	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	42	15 x 10	Fair	Fair	Mod.B	21 to 40		5	2.5	BS_Undersize	NA	None	0	None required		NA
332	*Eucalyptus camaldulensis*	River Red Gum	Maturing	Indigenous (Planted)	60	16 x 10	Fair	Fair	Mod.A	>40	Surface roots.	7.2	3	BS_LL_permit	NA	None	0	None required		NA

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333	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	35,31	10 x 8	Good	Fair	Mod.A	>40	Acute forks, co-dominant stems. Reduce lesser co-dominant stem	5.6	2.7	BS_LL_permit	NA	None	0	Selective pruning	Reduce lesser co-dominant stem	Med
334	*Eucalyptus camaldulensis*	River Red Gum	Young	Indigenous (Planted)	4	3 x 1	Fair	Fair	Mod.C	>40		2	1.5	BS_Undersize	NA	None	0	None required		NA
335	*Eucalyptus camaldulensis*	River Red Gum	Young	Indigenous (Planted)	2	2 x 1	Fair to Poor	Fair	Mod.C	>40	Minor dieback.	2	1.5	BS_Undersize	NA	None	0	None required		NA
336	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	35	14 x 8	Fair	Fair	Mod.B	21 to 40		4.2	2.3	BS_Undersize	NA	None	0	None required		NA
337	*Eucalyptus camaldulensis*	River Red Gum	Semi-mature	Indigenous (Planted)	25	10 x 6	Fair	Fair to Poor	Mod.C	21 to 40	Girdling root.	3	2.1	BS_Undersize	NA	None	0	None required		NA
338	*Eucalyptus camaldulensis*	River Red Gum	Semi-mature	Indigenous (Planted)	20	8 x 6	Fair to Poor	Fair to Poor	Mod.C	21 to 40		2.4	1.9	BS_Undersize	NA	None	0	None required		NA
339	*Eucalyptus camaldulensis*	River Red Gum	Semi-mature	Indigenous (Planted)	20	10 x 5	Fair to Poor	Fair to Poor	Mod.C	21 to 40		2.4	2	BS_Undersize	NA	None	0	None required		NA
340	*Eucalyptus camaldulensis*	River Red Gum	Maturing	Indigenous (Planted)	51	13 x 10	Fair	Fair	Mod.B	21 to 40		6.1	2.7	BS_LL_permit	NA	None	0	None required		NA
341	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	78	15 x 13	Fair	Fair to Poor	Mod.B	21 to 40	Basal wounds, included bark forks, trunk wounds, partly suppressed - crown bias.	9.4	3.2	BS_LL_permit	NA	None	0	None required		NA
342	*Corymbia maculata*	Spotted Gum	Early-mature	Victorian native	33	12 x 8	Fair	Fair	Mod.B	>40	Partly suppressed - crown bias, nth.	4	2.3	BS_Undersize	NA	None	0	None required		NA
343	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	68	14 x 11	Fair	Fair	Mod.B	21 to 40	Acute forks, partly suppressed - crown bias, sw.	8.2	3.1	BS_LL_permit	NA	None	0	None required		NA
344	*Ulmus procera*	English Elm	Early-mature	Exotic deciduous	42	6 x 7	Fair	Fair	Mod.B	21 to 40		5	2.5	BS_Undersize	NA	None	0	None required		NA
345	*Eucalyptus ovata*	Swamp Gum	Early-mature	Indigenous (Planted)	52	13 x 14	Fair	Fair	Mod.B	21 to 40	Over-extended limbs developing.	6.2	2.7	BS_LL_permit	NA	None	0	None required		NA
346	*Agathis robusta*	Queensland Kauri	Semi-mature	Australian conifer	10	4 x 2	Fair	Fair	Mod.C	>40	Side shoots emerging below 1m need to be pruned away.	2	1.5	BS_Undersize	NA	None	0	Formative pruning	Formative pruning, Other tasks - see comments	Med
347	*Melaleuca armillaris*	Bracelet Honey-myrtle	Early-mature	Victorian native	30 (est.)	7 x 10	Fair to Poor	Poor	Low	11 to 20		3.6	2.3	BS_Undersize	NA	None	0	None required		NA
348	*Eucalyptus ovata*	Swamp Gum	Maturing	Indigenous (Planted)	88,47	12 x 10	Poor	Poor	Low	1 to 5	Main leader dead.	12	3.4	BS_LL_permit	NA	None	0	None required		NA
349	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	46	7 x 8	Fair	Fair	Mod.B	>40		5.5	2.5	BS_Undersize	NA	None	0	None required		NA
350	*Eucalyptus camaldulensis*	River Red Gum	Maturing	Indigenous (Planted)	63	12 x 10	Fair to Poor	Fair	Mod.B	21 to 40		7.6	2.8	BS_LL_permit	NA	None	0	None required		NA
351	*Eucalyptus camaldulensis*	River Red Gum	Semi-mature	Indigenous (Planted)	24	6 x 5	Fair to Poor	Fair to Poor	Mod.C	21 to 40		2.9	1.9	BS_Undersize	NA	None	0	None required		NA
352	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	63	16 x 14	Fair	Fair	Mod.A	>40	Acute forks.	7.6	2.8	BS_LL_permit	NA	None	0	None required		NA
353	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	72	14 x 15	Fair	Fair	Mod.A	>40		8.6	3	BS_LL_permit	NA	None	0	None required		NA
354	*Eucalyptus botryoides*	Southern Mahogany	Over-mature	Victorian native	67,26,26,13,11	5 x 9	Fair to Poor	Poor	Very Low	1 to 5	Stump re-sprout. Remove to cut stump	9.4	3.6	BS_LL_permit	NA	None	0	Tree removal	Remove to cut stump	Med
355	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	35	7 x 6	Fair	Fair	Mod.B	>40		4.2	2.3	BS_Undersize	NA	None	0	None required		NA
356	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	54	8 x 9	Fair	Fair	Mod.B	>40		6.5	2.7	BS_LL_permit	NA	None	0	None required		NA
357	*Populus Xcanadensis*	Grey Poplar	Early-mature	Exotic deciduous	78	12 x 11	Fair to Poor	Fair to Poor	Low	6 to 10	Dieback advancing, habitat hollows.	9.4	2.7	BS_LL_permit	NA	None	0	None required		NA
358	*Cupressus macrocarpa 'Goldcrest'*	Golden Monterey Cypress	Maturing	Exotic conifer	74	8 x 12	Fair	Fair	Mod.C	11 to 20		8.9	3.1	BS_LL_permit	NA	None	0	None required		NA
359	*Eucalyptus botryoides*	Southern Mahogany	Early-mature	Victorian native	23,22,21,18	9 x 9	Fair to Poor	Fair to Poor	Low	11 to 20		5.1	2.8	BS_LL_permit	NA	None	0	None required		NA
360	*Eucalyptus ovata*	Swamp Gum	Maturing	Indigenous (Planted)	50	10 x 12	Fair	Fair to Poor	Mod.C	21 to 40		6	2.6	BS_LL_permit	NA	None	0	None required		NA
361	*Cupressus macrocarpa*	Monterey Cypress	Maturing	Exotic conifer	112,52	14 x 16	Fair	Fair to Poor	Mod.C	11 to 20	Basal wounds, past branch failure, trunk wounds. Low canopy.	14.8	3.8	BS_LL_permit	NA	None	0	None required		NA
362	*Cupressus macrocarpa*	Monterey Cypress	Maturing	Exotic conifer	120, 55,51	16 x 15	Fair	Fair	Mod.B	21 to 40		15	4.1	BS_LL_permit	NA	None	0	None required		NA
363	*Eucalyptus sideroxylon*	Red Ironbark	Semi-mature	Australian native	35	10 x 6	Fair	Fair	Mod.B	21 to 40		4.2	2.3	BS_Undersize	NA	None	0	None required		NA
364	*Melaleuca armillaris*	Bracelet Honey-myrtle	Maturing	Victorian native	38,26,25,12	7 x 8	Fair	Poor	Low	11 to 20	Active split.	6.4	2.9	BS_LL_permit	NA	None	0	None required		NA
365	*Melaleuca armillaris*	Bracelet Honey-myrtle	Semi-mature	Victorian native	30,28,25,17,13	6 x 8	Fair	Fair	Mod.C	11 to 20		6.3	2.9	BS_LL_permit	NA	None	0	None required		NA
366	*Melaleuca armillaris*	Bracelet Honey-myrtle	Maturing	Victorian native	57,46	6 x 8	Fair	Fair to Poor	Mod.C	11 to 20		8.8	2.9	BS_LL_permit	NA	None	0	None required		NA

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367	*Melaleuca armillaris*	Bracelet Honey-myrtle	Maturing	Victorian native	26,17	5 x 8	Fair to Poor	Poor	Low	11 to 20	Leaning trunk.	7.7	2.8	BS_Undersize	NA	None	0	None required		NA
368	*Melaleuca armillaris*	Bracelet Honey-myrtle	Maturing	Victorian native	65,30	6 x 10	Fair	Fair to Poor	Mod.C	11 to 20		8.6	2.9	BS_LL_permit	NA	None	0	None required		NA
369	*Melaleuca armillaris*	Bracelet Honey-myrtle	Early-mature	Victorian native	30	6 x 8	Fair	Fair	Mod.C	11 to 20		3.6	2.3	BS_Undersize	NA	None	0	None required		NA
370	*Albizia julibrissin*	Silk Tree	Semi-mature	Exotic deciduous	6,5	2 x 3	Fair	Fair to Poor	Low	1 to 5	Woody weed sp	2	1.5	BS_Undersize	NA	None	0	None required		NA
371	*Fraxinus angustifolia subsp. angustifolia*	Desert Ash	Maturing	Exotic deciduous	16,15,14,13,12 (est.)	7 x 8	Fair	Poor	Low	1 to 5	Multi-stemmed, stump re-sprout, woody weed sp. Remove to cut stump	3.8	2.6	BS_LL_permit	NA	None	0	Tree removal	Remove to cut stump	Med
372	*Phoenix canariensis*	Canary Island Date Palm	Early-mature	Exotic palm	45 (est.)	7 x 6	Fair	Fair	Mod.B	21 to 40	Observed from afar. IMG_2265_JPG.	4	2.5	BS_Undersize	NA	None	0	None required		NA
373	*Fraxinus angustifolia subsp. angustifolia*	Desert Ash	Maturing	Exotic deciduous	38,36 (est.)	10 x 10	Fair	Fair to Poor	Very Low	1 to 5	Woody weed sp	6.3	2.8	BS_LL_permit	NA	None	0	None required		NA
374	*Fraxinus angustifolia subsp. angustifolia*	Desert Ash	Semi-mature	Exotic deciduous	8,4	4 x 2	Fair	Poor	Very Low	1 to 5	Suckering, woody weed sp	2	1.5	BS_Undersize	NA	None	0	None required		NA
375	*Fraxinus angustifolia subsp. angustifolia*	Desert Ash	Semi-mature	Exotic deciduous	10,8,8,6,5	4 x 3	Fair	Poor	Very Low	1 to 5	Suckering, woody weed sp	2	1.5	BS_Undersize	NA	None	0	None required		NA
376	*Melaleuca armillaris*	Bracelet Honey-myrtle	Over-mature	Victorian native	60	5 x 8	Fair	Poor	Low	1 to 5	Collapsing, subsiding limbs.	7.2	2.8	BS_LL_permit	NA	None	0	None required		NA
377	*Allocasuarina verticillata*	Drooping She-oak	Young	Indigenous (Planted)	4	3 x 1	Fair	Fair to Poor	Mod.C	11 to 20	Included bark forks. Formative pruning	2	1.5	BS_Undersize	NA	None	0	Formative pruning	Formative pruning	Med
378	*Acacia mearnsii*	Late Black Wattle	Semi-mature	Indigenous (Planted)	9	5 x 4	Fair	Fair	Mod.C	11 to 20		2	1.5	BS_Undersize	NA	None	0	None required		NA
379	*Allocasuarina verticillata*	Drooping She-oak	Young	Indigenous (Planted)	4	3 x 1	Fair	Fair to Poor	Mod.C	11 to 20	Included bark forks. Formative pruning	2	1.5	BS_Undersize	NA	None	0	Formative pruning	Formative pruning	Med
380	*Lophostemon confertus*	Brush Box	Semi-mature	Australian native	13,12,10,10	4 x 5	Fair	Fair to Poor	Low	11 to 20		2.7	2.1	BS_Undersize	NA	None	0	None required		NA
381	*Lophostemon confertus*	Brush Box	Semi-mature	Australian native	24	4 x 5	Fair	Fair to Poor	Low	11 to 20		2.9	1.9	BS_Undersize	NA	None	0	None required		NA
382	*Fraxinus angustifolia*	Narrow-leaved Ash	Young	Exotic deciduous	5,5,5	5 x 3	Poor	Poor	Low	6 to 10		2	1.5	BS_Undersize	NA	None	0	None required		NA
383	*Cupressus macrocarpa*	Monterey Cypress	Early-mature	Exotic conifer	30,25 (est.)	10 x 8	Poor	Poor	Low	6 to 10	Tip dieback.	4.7	2.4	BS_LL_permit	NA	None	0	None required		NA
384	*Fraxinus angustifolia*	Narrow-leaved Ash	Young	Exotic deciduous	5,5	5 x 2	Fair	Fair	Low	11 to 20		2	1.5	BS_Undersize	NA	None	0	None required		NA
385	*Fraxinus angustifolia*	Narrow-leaved Ash	Young	Exotic deciduous	3	4 x 2	Fair	Fair	Low	11 to 20		2	1.5	BS_Undersize	NA	None	0	None required		NA
386	*Fraxinus angustifolia*	Narrow-leaved Ash	Young	Exotic deciduous	5	4 x 2	Fair	Fair	Low	11 to 20		2	1.5	BS_Undersize	NA	None	0	None required		NA
387	*Fraxinus angustifolia*	Narrow-leaved Ash	Young	Exotic deciduous	5	4 x 2	Fair	Fair	Low	11 to 20		2	1.5	BS_Undersize	NA	None	0	None required		NA
388	*Fraxinus angustifolia*	Narrow-leaved Ash	Young	Exotic deciduous	5	4 x 2	Fair	Fair	Low	6 to 10		2	1.5	BS_Undersize	NA	None	0	None required		NA
389	*Eucalyptus cladocalyx*	Sugar Gum	Maturing	Australian native	141	24 x 18	Fair	Fair to Poor	Mod.B	11 to 20	Crossing branches, past branch failure.	15	4	BS_LL_permit	NA	None	0	None required		NA
390	*Fraxinus angustifolia*	Narrow-leaved Ash	Young	Exotic deciduous	6,5	4 x 2	Fair	Fair	Low	11 to 20		2	1.5	BS_Undersize	NA	None	0	None required		NA
391	*Callistemon salignus*	Willow Bottlebrush	Young	Australian native	3	2 x 1	Fair	Fair	Low	11 to 20		2	1.5	BS_Undersize	NA	None	0	None required		NA
392	*Eucalyptus camaldulensis*	River Red Gum	Maturing	Indigenous (Planted)	71	18 x 12	Fair	Fair	Mod.B	21 to 40		8.5	2.9	BS_LL_permit	NA	None	0	None required		NA
393	*Corymbia maculata*	Spotted Gum	Semi-mature	Victorian native	44,24	14 x 10	Fair	Fair	Mod.B	21 to 40		6	2.6	BS_LL_permit	NA	None	0	None required		NA
394	*Corymbia maculata*	Spotted Gum	Semi-mature	Victorian native	17	10 x 6	Fair	Fair	Mod.C	21 to 40		2	1.7	BS_Undersize	NA	None	0	None required		NA
395	*Eucalyptus camaldulensis*	River Red Gum	Maturing	Indigenous (Planted)	77	16 x 12	Fair	Fair	Mod.B	21 to 40		9.2	3.2	BS_LL_permit	NA	None	0	None required		NA
396	*Corymbia maculata*	Spotted Gum	Early-mature	Victorian native	41	15 x 11	Fair	Fair to Poor	Mod.C	11 to 20	Included bark forks w compression flaring. Reduce lesser co-dominant stem	4.9	2.4	BS_Undersize	NA	None	0	Selective pruning	Reduce lesser co-dominant stem	Med
397	*Corymbia maculata*	Spotted Gum	Semi-mature	Victorian native	19	8 x 5	Fair	Fair	Mod.C	21 to 40	Suppressed.	2.3	1.7	BS_Undersize	NA	None	0	None required		NA
398	*Corymbia maculata*	Spotted Gum	Early-mature	Victorian native	38	15 x 11	Fair	Fair	Mod.B	>40		4.6	2.4	BS_Undersize	NA	None	0	None required		NA

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399	*Corymbia citriodora*	Lemon-scented Gum	Early-mature	Australian native	41	15 x 12	Good	Fair	Mod.A	>40		4.9	2.4	BS_Undersize	NA	None	0	None required		NA
400	*Eucalyptus sideroxylon*	Red Ironbark	Early-mature	Australian native	40	9 x 6	Fair	Fair to Poor	Mod.C	11 to 20		4.8	2.3	BS_Undersize	NA	None	0	None required		NA
401	*Corymbia maculata*	Spotted Gum	Early-mature	Victorian native	49	15 x 9	Fair	Fair to Poor	Mod.B	21 to 40	Co-dominant stems w compression flaring.	5.9	2.5	BS_LL_permit	NA	None	0	None required		NA
402	*Eucalyptus leucoxylon 'Rosea'*	Pink-flowered Yellow Gum	Early-mature	Australian native	21,16	5 x 6	Fair	Fair	Mod.B	21 to 40	Acute forks.	3.2	2.1	BS_Undersize	NA	None	0	None required		NA
403	*Corymbia ficifolia*	Red-flowering Gum	Semi-mature	Australian native	23	6 x 4	Fair to Poor	Fair to Poor	Mod.C	11 to 20		2.8	1.8	BS_Undersize	NA	None	0	None required		NA
404	*Eucalyptus kitsoniana*	Gippsland Mallee	Semi-mature	Victorian native	28,10,8	8 x 5	Fair	Fair	Mod.C	21 to 40		3.6	2.1	BS_Undersize	NA	None	0	None required		NA
405	*Eucalyptus cladocalyx*	Sugar Gum	Maturing	Australian native	165,75	11 x 19	Fair	Fair to Poor	Mod.C	11 to 20	Past limb failure, trunk wounds. Past stem removal & crown reduction.	15	4.2	BS_LL_permit	NA	None	0	None required		NA
406	*Eucalyptus camaldulensis*	River Red Gum	Young	Indigenous (Planted)	10,6	5 x 5	Fair	Fair	Mod.C	>40		2	1.7	BS_Undersize	NA	None	0	None required		NA
407	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	40 @0.8;1.0m	14 x 10	Fair	Fair	Mod.B	21 to 40		4.8	2.4	BS_Undersize	NA	None	0	None required		NA
408	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	35	12 x 10	Fair	Fair	Mod.B	21 to 40		4.2	2.3	BS_Undersize	NA	None	0	None required		NA
409	*Eucalyptus ovata*	Swamp Gum	Early-mature	Indigenous (Planted)	30	10 x 6	Fair to Poor	Fair to Poor	Mod.C	11 to 20		3.6	2.1	BS_Undersize	NA	None	0	None required		NA
410	*Eucalyptus camaldulensis*	River Red Gum	Semi-mature	Indigenous (Planted)	25,20,20 (est.)	14 x 10	Fair	Fair	Mod.B	21 to 40		4.5	2.3	BS_LL_permit	NA	None	0	None required		NA
411	*Eucalyptus camaldulensis*	River Red Gum	Semi-mature	Indigenous (Planted)	12	5 x 4	Fair	Fair	Mod.C	21 to 40		2	1.5	BS_Undersize	NA	None	0	None required		NA
412	*Eucalyptus camaldulensis*	River Red Gum	Early-mature	Indigenous (Planted)	21 (est.)	10 x 7	Fair	Fair	Mod.B	>40		2.5	2	BS_Undersize	NA	None	0	None required		NA
413	*Eucalyptus camaldulensis*	River Red Gum	Semi-mature	Indigenous (Planted)	20	12 x 7	Fair	Fair	Mod.B	21 to 40		2.4	1.8	BS_Undersize	NA	None	0	None required		NA
414	*Platanus Xacerifolia*	London Plane	Maturing	Exotic deciduous	95	16 x 15	Fair	Fair	Mod.B	11 to 20	Street tree. limited growing space, abutting BoK.Crown bias-East	11.4	3.3	PP_LL_permit	CoPP agreed area - 11.43%	TPZ	11.43	None required		NA
415	*Quercus ilex*	Holly Oak	Semi-mature	Exotic evergreen	4	2 x 1	Fair	Fair	Mod.C	>40		2	1.5	DDO10, PP_Undersize	CoPP agreed area - 72.52%	Within	72.52	None required		NA
416	*Banksia integrifolia*	Coast Banksia	Young	Victorian native	6	3 x 1	Fair	Fair	Mod.C	21 to 40	Partly suppressed - crown bias, sth.	2	1.5	PP_Undersize	NA	None	0	None required		NA
417	*Banksia integrifolia*	Coast Banksia	Semi-mature	Victorian native	9	3 x 2	Fair	Fair	Mod.C	21 to 40		2	1.5	PP_Undersize	CoPP agreed area - 45.61%	SRZ	45.61	None required		NA
418	*Banksia integrifolia*	Coast Banksia	Semi-mature	Victorian native	7	2 x 1	Fair	Fair	Mod.C	21 to 40		2	1.5	PP_Undersize	CoPP agreed area - 46.45%	SRZ	46.45	None required		NA
419	*Banksia integrifolia*	Coast Banksia	Semi-mature	Victorian native	6	2 x 1	Fair	Fair	Mod.C	21 to 40		2	1.5	PP_Undersize	CoPP agreed area - 37.53%	SRZ	37.53	None required		NA
420	*Banksia integrifolia*	Coast Banksia	Semi-mature	Victorian native	10	3 x 2	Fair	Fair	Mod.C	21 to 40		2	1.5	PP_Undersize	CoPP agreed area - 44.88%	SRZ	44.88	None required		NA
421	*Banksia integrifolia*	Coast Banksia	Semi-mature	Victorian native	8	5 x 2	Fair	Fair	Mod.C	21 to 40		2	1.5	PP_Undersize	CoPP agreed area - 53.75%	Within	53.75	None required		NA
422	*Banksia integrifolia*	Coast Banksia	Semi-mature	Victorian native	8	4 x 2	Fair	Fair	Mod.C	21 to 40		2	1.5	PP_Undersize	CoPP agreed area - 47.16%	SRZ	47.16	None required		NA
423	*Banksia integrifolia*	Coast Banksia	Semi-mature	Victorian native	8	3 x 3	Fair to Poor	Fair	Mod.C	21 to 40	Canker/galls, partly suppressed - crown bias, sth.	2	1.5	PP_Undersize	CoPP agreed area - 44.83%	SRZ	44.83	None required		NA
424	*Banksia integrifolia*	Coast Banksia	Semi-mature	Victorian native	12	3 x 3	Fair	Fair	Mod.C	21 to 40		2	1.5	PP_Undersize	CoPP agreed area - 41.73%	SRZ	41.73	None required		NA
425	*Banksia integrifolia*	Coast Banksia	Semi-mature	Victorian native	9	2 x 3	Fair	Fair	Mod.C	21 to 40		2	1.5	PP_Undersize	CoPP agreed area - 33.45%	SRZ	33.45	None required		NA
426	*Banksia integrifolia*	Coast Banksia	Semi-mature	Victorian native	9	3 x 2	Fair	Fair	Mod.C	21 to 40		2	1.5	PP_Undersize	CoPP agreed area - 32.02%	SRZ	32.02	None required		NA
427	*Banksia integrifolia*	Coast Banksia	Semi-mature	Victorian native	8	3 x 3	Fair	Fair	Mod.C	21 to 40	Partly suppressed - crown bias, sw.	2	1.5	PP_Undersize	CoPP agreed area - 32.13%	SRZ	32.13	None required		NA
428	*Banksia integrifolia*	Coast Banksia	Semi-mature	Victorian native	10	3 x 2	Fair	Fair	Mod.C	21 to 40	Canker/galls.	2	1.5	PP_Undersize	CoPP agreed area - 32.22%	SRZ	32.22	None required		NA
429	*Banksia integrifolia*	Coast Banksia	Semi-mature	Victorian native	9	3 x 2	Fair	Fair	Mod.C	21 to 40		2	1.5	PP_Undersize	CoPP agreed area - 34.24%,CoPP agreed area - 2.82%	SRZ	36.94	None required		NA
430	*Banksia integrifolia*	Coast Banksia	Semi-mature	Victorian native	8	2 x 2	Fair	Fair	Mod.C	21 to 40		2	1.5	PP_Undersize	CoPP agreed area - 44.14%,CoPP agreed area - 56.69%	Within	100.01	None required		NA
431	*Allocasuarina verticillata*	Drooping She-oak	Semi-mature	Victorian native	10	3 x 3	Fair	Fair	Mod.C	21 to 40		2	1.5	DDO10, PP_Undersize	NA	None	0	None required		NA
432	*Allocasuarina verticillata*	Drooping She-oak	Semi-mature	Victorian native	6	3 x 1	Fair	Fair to Poor	Low	11 to 20	Basal wounds, trunk wounds.	2	1.5	DDO10, PP_Undersize	NA	None	0	None required		NA
433	*Allocasuarina verticillata*	Drooping She-oak	Semi-mature	Victorian native	9	3 x 2	Fair	Fair	Mod.C	21 to 40		2	1.5	DDO10, PP_Undersize	NA	None	0	None required		NA

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434	*Allocasuarina verticillata*	Drooping She-oak	Semi-mature	Victorian native	9	3 x 3	Good	Fair	Mod.C	21 to 40		2	1.5	DDO10, PP_Undersize	NA	None	0	None required		NA
435	*Allocasuarina verticillata*	Drooping She-oak	Semi-mature	Victorian native	8	5 x 2	Good	Fair	Mod.C	11 to 20	Basal wounds.	2	1.5	DDO10, PP_Undersize	NA	None	0	None required		NA
436	*Allocasuarina verticillata*	Drooping She-oak	Maturing	Victorian native	44	7 x 10	Good	Fair	Mod.B	21 to 40	Acute forks, included bark forks, over-extended limbs developing, nth.	5.3	2.5	DDO10, PP_Undersize	NA	None	0	None required		NA
437	*Lagunaria patersonia*	Norfolk Island Hibiscus	Early-mature	Australian native	23,20,15,14	7 x 9	Fair	Fair	Mod.B	21 to 40	Multi-stemmed.	4.4	2.5	DDO10, PP_LL_permit	NA	None	0	None required		NA
438	*Allocasuarina verticillata*	Drooping She-oak	Semi-mature	Victorian native	11	4 x 4	Fair	Fair to Poor	Mod.C	11 to 20	Congested primary union, lopped.	2	1.5	DDO10, PP_Undersize	CoPP agreed area - 31.82%	SRZ	31.82	None required		NA
439	*Lagunaria patersonia*	Norfolk Island Hibiscus	Early-mature	Australian native	13,10,7,7	6 x 5	Fair	Fair to Poor	Mod.C	11 to 20	Multi-stemmed.	2	2.1	DDO10, PP_Undersize	CoPP agreed area - 100.01%	Within	100.01	None required		NA
440	*Allocasuarina verticillata*	Drooping She-oak	Maturing	Victorian native	36	7 x 8	Fair	Fair to Poor	Mod.C	11 to 20	Included bark forksw compression flaring.	4.3	2.2	DDO10, PP_Undersize	CoPP agreed area - 100.0%	Within	100	None required		NA
441	*Lagunaria patersonia*	Norfolk Island Hibiscus	Early-mature	Australian native	22,22,9	7 x 7	Fair	Fair to Poor	Mod.C	11 to 20	Co-dominant stems, included bark.	3.7	2.4	DDO10, PP_LL_permit	CoPP agreed area - 100.0%	Within	100	None required		NA
442	*Allocasuarina verticillata*	Drooping She-oak	Early-mature	Victorian native	20	5 x 6	Fair to Poor	Fair to Poor	Mod.C	6 to 10	Dieback, main leader dead, partly suppressed - crown bias, nth.	2.4	1.8	DDO10, PP_Undersize	CoPP agreed area - 99.99%	Within	99.99	None required		NA
443	*Allocasuarina verticillata*	Drooping She-oak	Young	Victorian native	5	3 x 1	Fair	Fair to Poor	Low	11 to 20	Partly suppressed - crown bias, nth. 75cm off path.	2	1.5	DDO10, PP_Undersize	CoPP agreed area - 91.27% / (Non-Contiguous Areas: CoPP agreed area - 8.73%)	Within	100.01	None required		NA
444	*Lagunaria patersonia*	Norfolk Island Hibiscus	Maturing	Australian native	47	7 x 7	Fair	Fair	Mod.B	21 to 40		5.6	2.4	DDO10, PP_Undersize	CoPP agreed area - 38.73%	SRZ	38.73	None required		NA
445	*Allocasuarina verticillata*	Drooping She-oak	Semi-mature	Victorian native	15	5 x 6	Fair	Fair	Mod.B	21 to 40		2	1.6	DDO10, PP_Undersize	NA	None	0	None required		NA
446	*Lagunaria patersonia*	Norfolk Island Hibiscus	Maturing	Australian native	61	9 x 10	Fair	Fair	Mod.B	21 to 40		7.3	3	DDO10, PP_LL_permit	CoPP agreed area - 14.8%	TPZ_Major	14.8	None required		NA
447	*Allocasuarina verticillata*	Drooping She-oak	Early-mature	Victorian native	23	5 x 6	Good	Fair	Mod.B	21 to 40		2.8	1.9	DDO10, PP_Undersize	NA	None	0	None required		NA
448	*Lagunaria patersonia*	Norfolk Island Hibiscus	Maturing	Australian native	54	8 x 9	Fair	Fair	Mod.B	21 to 40		6.5	2.7	DDO10, PP_LL_permit	NA	None	0	None required		NA
449	*Allocasuarina verticillata*	Drooping She-oak	Maturing	Victorian native	26	6 x 7	Fair	Fair	Mod.B	21 to 40		3.1	2	DDO10, PP_Undersize	NA	None	0	None required		NA
450	*Lagunaria patersonia*	Norfolk Island Hibiscus	Maturing	Australian native	42	8 x 7	Fair	Fair	Mod.B	21 to 40		5	2.5	DDO10, PP_Undersize	NA	None	0	None required		NA
451	*Coprosma Xkirkii*	Variegated Coprosma	Early-mature	Exotic evergreen	13	4 x 4	Fair	Fair to Poor	Mod.C	11 to 20	Woody weed sp C lucida?.	2	1.5	DDO10, PP_Undersize	CoPP agreed area - 100.01%	Within	100.01	None required		NA
452	*Euonymus japonicus*	Spindle Tree	Early-mature	Exotic evergreen	6,6,6,5,4	2 x 5	Fair	Fair	Mod.C	11 to 20	Hedged.	2	1.8	DDO10, PP_Undersize	CoPP agreed area - 100.01%	Within	100.01	None required		NA
453	*Ligustrum ovalifolium*	Japanese Privet	Early-mature	Exotic evergreen	3,2,2,2,2	3 x 3	Fair	Fair to Poor	Mod.C	11 to 20	Multi-stemmed, woody weed sp	2	1.8	DDO10, PP_Undersize	CoPP agreed area - 100.01%	Within	100.01	None required		NA
454	*Banksia integrifolia*	Coast Banksia	Semi-mature	Victorian native	9	4 x 2	Fair	Fair	Mod.C	21 to 40		2	1.5	DDO10, PP_Undersize	CoPP agreed area - 100.01%	Within	100.01	None required		NA
455	*Quercus ilex*	Holly Oak	Early-mature	Exotic evergreen	31	7 x 6	Fair	Fair	Mod.B	21 to 40	Partly suppressed - crown bias, sw.	3.7	2.2	DDO10, PP_Undersize	CoPP agreed area - 46.21%	SRZ	46.21	None required		NA

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G1	*Acacia longifolia var. sophorae, Correa alba, Leptospermum laevigatum*	Coast Wattle, White Correa, Coast Tea-tree	Early-mature	Indigenous (Planted)	10 (est.)	3 x 3	Fair	Fair to Poor	Mod.C	11 to 20	Group of ~10 trees. Sprawling garden bed.	2	1.5	VPO1	Access track - 0.3%,Crane - 16.66%,Storage/Turning area - 82.73%	Within	99.68	None required		NA
G2	*Leptospermum laevigatum, Myoporum insulare, Westringia glabra*	Coast Tea-tree, Boobialla, Violet Westringia	Early-mature	Indigenous (Planted)	10 (est.)	3 to 5 x 3 to 5	Fair	Fair to Poor	Mod.C	11 to 20	Group of ~10 trees.	2	1.5	VPO1	Access track - 17.5%,Storage/Turning area - 54.24%	71.74% Within footprint	71.74	None required		NA
G3	*Leptospermum laevigatum, Westringia glabra*	Coast Tea-tree, Violet Westringia	Early-mature	Indigenous (Planted)	10 (est.)	3 to 5 x 3 to 5	Fair	Fair to Poor	Mod.C	11 to 20	Group of ~10 trees. Vine infested.	2	1.5	VPO1	Access track - 3.52%,Storage/Turning area - 1.16% / (Non-Contiguous Areas: Access track - 1.16%)	4.67% Within footprint	4.67	None required		NA
G5	*Euonymus japonicus, Euonymus japonicus 'Aureomarginatus'*	Spindle Tree, Golden Variegated Spindle Tree	Early-mature	Exotic evergreen, Exotic evergreen	10 (est.)	2 to 3 x 3 to 5	Fair	Fair	Mod.C	11 to 20	Group of 4 Shrubs.	2	1.5	DDO10, PP_Undersize	Head St Work zone - 68.05%	68.05% Within footprint	68.05	None required		NA
G4	*Tecomaria capensis*	Cape Honeysuckle	Maturing	Exotic evergreen	9 (multi-stem)	2 to 3 x 5 to 8	Fair	Fair	Low	6 to 10	Group of Suckering. Vines.	2	1.5	DDO10, PP_Undersize	Head St Work zone - 100.0%,New Culvert - 99.27%,Road crossing - 29.53%	Within	100	None required		NA
G6	*Lagerstroemia indica*	Crape Myrtle	Early-mature	Exotic deciduous	12 (multi-stem)	4 x 5	Fair	Fair	Mod.B	21 to 40	Group of 9 trees. Arranged in circle 1.2m apart.	2	1.8	PP_Undersize	Crane - 93.81%,Head St Work zone - 6.2%	Within	100.01	None required		NA
G7	*Juniperus chinensis*	Chinese Juniper	Early-mature	Exotic conifer	7	2 x 1	Fair	Fair	Mod.C	11 to 20	Group of 6 clipped trees.	2	1.6	BS_Undersize	New Culvert - 79.25%,North Workzone - 85.48%,Road crossing - 63.66% / (Non-Contiguous Areas: New Culvert - 0.32%)	85.48% Within footprint	85.48	None required		NA
G8	*Acacia implexa, Acacia paradoxa, Bursaria spinosa, Eucalyptus camaldulensis, Myoporum insulare*	Lightwood, Hedge Wattle, Sweet Bursaria, River Red Gum, Boobialla	Semi-mature	Indigenous (Planted)	10 (multi-stem)	2 to 5 x 3 to 5	Fair	Fair to Poor	Mod.C	11 to 20	Group of ~50 trees.	2	1.6	BS_Undersize	New Culvert - 16.81%,North Workzone - 67.08%,Old drain - 13.42%,Road crossing - 0.4%	67.08% Within footprint	67.08	None required		NA
G12	*Eucalyptus camaldulensis*	River Red Gum	Young	Indigenous (Planted)	9	3 to 6 x 1 to 2	Fair	Fair	Mod.C	>40	Group of ~11 trees. Natural recruitment.	2	1.5	BS_Undersize	NA	None	0	None required		NA
G9	*Acacia implexa, Bursaria spinosa, Correa alba*	Lightwood, Sweet Bursaria, White Correa	Semi-mature	Indigenous (Planted)	5	1 to 3 x 1 to 3	Fair	Fair to Poor	Mod.C	11 to 20	Group of ~15 trees.	2	1.5	BS_Undersize	Crane - 60.81%,North Workzone - 39.19%,Old drain - 21.55%	Within	100	None required		NA
G10	*Acacia implexa, Acacia melanoxylon, Acacia paradoxa, Correa alba, Correa reflexa, Eucalyptus melliodora*	Lightwood, Blackwood, Hedge Wattle, White Correa, Common Correa	Semi-mature	Indigenous (Planted)	2	1 to 3 x 1 to 3	Fair	Fair	Mod.C	11 to 20	Group of ~20 trees. Understorey & groundcovers.	2	1.5	BS_Undersize	New Culvert - 0.52%,North Workzone - 59.83%,Old drain - 37.7%	59.86% Within footprint	59.86	None required		NA
G11	*Acacia paradoxa, Correa alba, Eucalyptus camaldulensis, Eucalyptus melliodora, Westringia glabra*	Hedge Wattle, White Correa, River Red Gum, Yellow Box, Violet Westringia	Semi-mature	Indigenous (Planted), Victorian native	6	1 to 3 x 1 to 3	Fair	Fair	Mod.C	11 to 20	Group of ~15 trees.	2	1.5	BS_Undersize	North Workzone - 34.73%,Old drain - 34.36% / (Non-Contiguous Areas: North Workzone - 0.29%,Old drain - 0.7%)	35.06% Within footprint	35.06	None required		NA
G13	*Acacia paradoxa*	Hedge Wattle	Early-mature	Victorian native	3	1 to 2 x 2 to 3	Fair	Fair	Low	11 to 20	Group of ~16 prickly shrubs.	2	3.1	BS_Undersize	NA	None	0	None required		NA
G16	*Fraxinus angustifolia subsp. angustifolia*	Desert Ash	Semi-mature	Exotic deciduous	9	3 x 1	Fair	Fair to Poor	Very Low	<1	Group of ~7 trees. Suckering, woody weed sp Remove & poison cut stumps	2	1.5	BS_Undersize	NA	None	0	Tree removal	Remove to cut stump	Med
G17	*Cupressus macrocarpa*	Monterey Cypress	Maturing	Exotic conifer	60,50,45	13 x 14	Fair to Poor	Fair to Poor	Low	6 to 10	Group of ~7 trees. Minor dieback, subsiding limbs.	10.8	3.6	BS_LL_permit	NA	None	0	None required		NA

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treeid	species	comm_name	age_class	origin_typ	dbh_cm	height x width (m)	health	structure	arb_rating	ule_yrs	comments	tpz_rad_m	srz_rad_m	LL_Permit	Impact_name	Impact	%TPZ_enc	works class	rec_works	priority
G18	*Coprosma repens, Fraxinus angustifolia subsp. angustifolia*	Mirror Bush, Desert Ash	Early-mature	Exotic evergreen, Exotic deciduous	20	3 to 10 x 3 to 10	Fair to Poor	Poor	Very Low	1 to 5	Group of ~15 trees. Suckering, woody weed sp	2.4	1.8	BS_Undersize	NA	None	0	None required		NA
G15	*Eucalyptus camaldulensis*	River Red Gum	Semi-mature	Indigenous (Planted)	9	4 x 2	Fair	Fair	Mod.C	21 to 40	Group of ~6 trees. Recruiting row of Red Gums.	2	1.5	BS_Undersize	NA	None	0	None required		NA
G14	*Eucalyptus camaldulensis*	River Red Gum	Semi-mature	Indigenous (Planted)	12	7 x 3	Fair	Fair	Mod.B	21 to 40	Group of ~3 trees.	2	1.5	BS_Undersize	NA	None	0	None required		NA
G19	*Eucalyptus camaldulensis, Eucalyptus ovata*	River Red Gum, Swamp Gum	Semi-mature	Indigenous (Planted)	10	45570 x 45414	Fair to Poor	Fair to Poor	Mod.C	21 to 40	Group of ~5 trees.	2	1.5	BS_Undersize	NA	None	0	None required		NA

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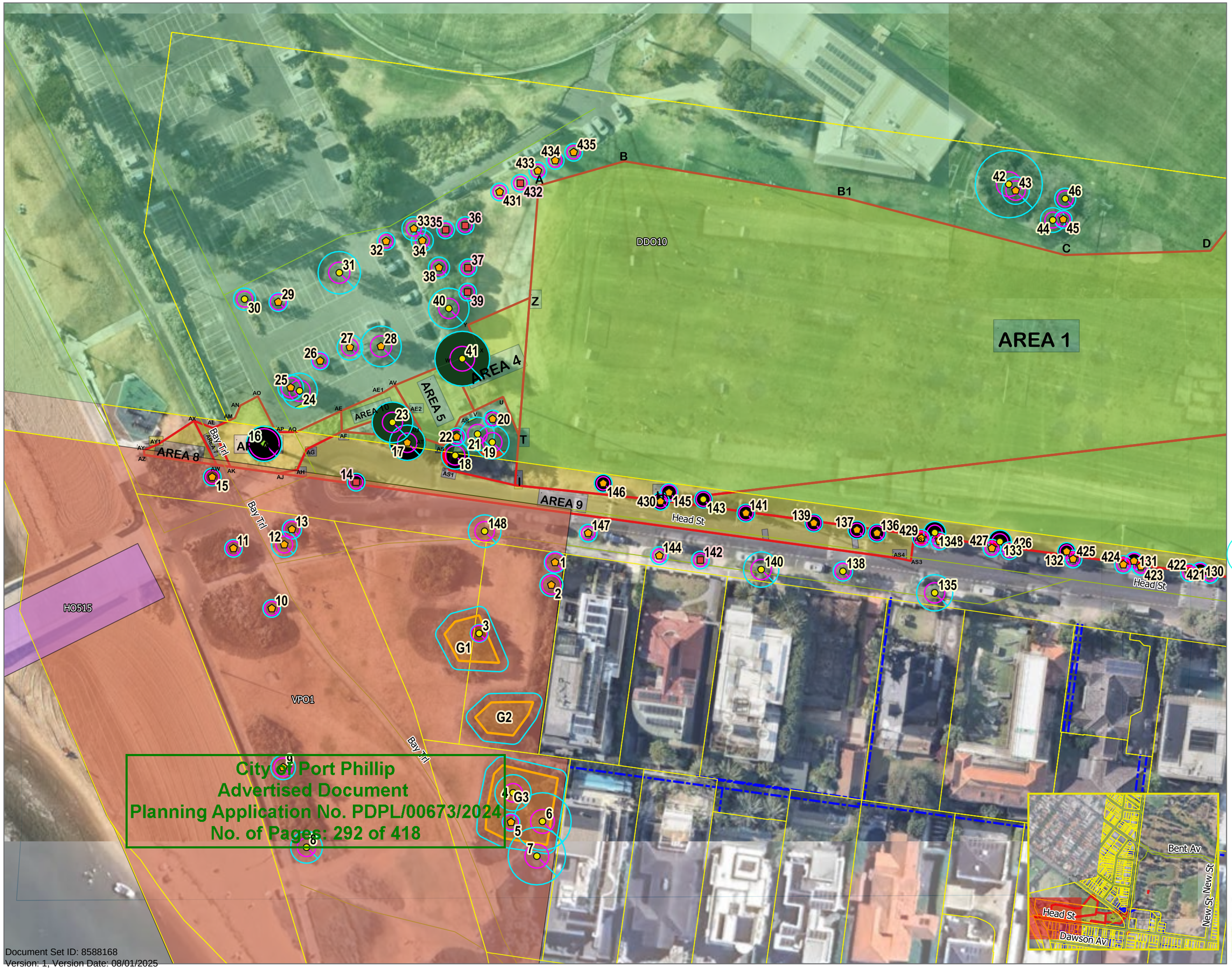
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Appendix 2: Updated Tree Location & TPZ Plan with impacts:

Refer to following 6 pages

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LEGEND

Trees by Arb rating
- Mod-A
- Mod-B
- Mod-C
- Low
- Very Low

Groups by Arb rating
- Mod-C

TPZ_impacts_2411
- SRZ
- Within

TL_impacts_240909
- TPZ
- SRZ
- Within
- cadastre
- easements

overlays
- DDO10
- HO515
- VPO1

Tree Protection Zone
Structural Root Zone

APPENDIX 2
TREE PROTECTION ZONE ENCROACHMENT

MAP NO. 1 / 6

PROJECT
Elster & Elwood Drain Project

CLIENT
Nation Partners

TL REF.
13209

DATE
2024-11-14

DATA SOURCES
NearMap aerial imagery- 21/3/24
KBR design layers 24-09-10

TREE LOCATION DISCLAIMER
Tree locations are approximate

COORDINATE REFERENCE SYSTEM
EPSG:28355 | GDA 94 MGA Zone 55

0 10 20m

TREELOGIC PTY LTD
ABN: 95 080 021 610
TEL: 1300 656 926
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LEGEND

Trees by Arb rating
- High
- Mod-A
- Mod-B
- Mod-C
- Low
- Very Low

Groups by Arb rating
- Mod-B
- Mod-C
- Low
- Very Low

TPZ_impacts_2411
- TPZ
- TPZ_Major
- SRZ
- Within

TL_impacts_240909
- Within
- cadastre
- easements

overlays
- DDO10
- HO425

Tree Protection Zone
Structural Root Zone

APPENDIX 2

TREE PROTECTION ZONE ENCROACHMENT

MAP NO. 2 / 6

PROJECT
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2024-11-14

DATA SOURCES
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TREE LOCATION DISCLAIMER
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EPSG:28355 | GDA 94 MGA Zone 55

0 10 20m

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LEGEND

Trees by Arb rating
- Mod-A
- Mod-B
- Mod-C
- Low
- Very Low

Groups by Arb rating
- Mod-C
- Low
- Very Low

TPZ_impacts_2411
- TPZ

TL_impacts_240909
- TPZ
- TPZ_Major
- SRZ
- Within
- cadastre
- easements

Tree Protection Zone
Structural Root Zone

APPENDIX 2
TREE PROTECTION ZONE ENCROACHMENT

MAP NO. 3 / 6

PROJECT
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DATE
2024-11-14

DATA SOURCES
NearMap aerial imagery- 21/3/24
KBR design layers 24-09-10

TREE LOCATION DISCLAIMER
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COORDINATE REFERENCE SYSTEM
EPSG:28355 | GDA 94 MGA Zone 55

0 10 20m

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HO435
Bent Av
St Kilda St
Phyllis St
Elster Canal Path

LEGEND

Trees by Arb rating
- Mod-A
- Mod-B
- Mod-C
- Low
- Very Low

Groups by Arb rating
- Mod-B
- Mod-C
- Low
- Very Low
- cadastre
- easements

overlays
- HO435

Tree Protection Zone
Structural Root Zone

APPENDIX 2

TREE PROTECTION ZONE ENCROACHMENT

MAP NO. 4 / 6

PROJECT
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DATE
2024-11-14

DATA SOURCES
NearMap aerial imagery- 21/3/24
KBR design layers 24-09-10

TREE LOCATION DISCLAIMER
Tree locations are approximate

COORDINATE REFERENCE SYSTEM
EPSG:28355 | GDA 94 MGA Zone 55

0 10 20m

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LEGEND

Trees by Arb rating
- Mod-A
- Mod-B
- Mod-C
- Low
- Very Low

Groups by Arb rating
- Low
- Very Low
- cadastre

overlays
- PO1

Tree Protection Zone
Structural Root Zone

APPENDIX 2

TREE PROTECTION ZONE ENCROACHMENT

MAP NO. 5 / 6

PROJECT
Elster & Elwood Drain Project

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DATE
2024-11-14

DATA SOURCES
NearMap aerial imagery- 21/3/24
KBR design layers 24-09-10

TREE LOCATION DISCLAIMER
Tree locations are approximate

COORDINATE REFERENCE SYSTEM
EPSG:28355 | GDA 94 MGA Zone 55

0 10 20m

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LEGEND

Trees by Arb rating

- Mod-A
- Mod-B
- Mod-C
- Low
- Very Low
- cadastre

overlays

- HO435

Tree Protection Zone
Structural Root Zone

APPENDIX 2

TREE PROTECTION ZONE ENCROACHMENT

MAP NO. 6 / 6

PROJECT

Elster & Elwood Drain Project

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DATE
2024-11-14

DATA SOURCES
NearMap aerial imagery- 21/3/24
KBR design layers 24-09-10

TREE LOCATION DISCLAIMER
Tree locations are approximate

COORDINATE REFERENCE SYSTEM
EPSG:28355 | GDA 94 MGA Zone 55

0 10 20m

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Pictures of Additional Tree *(415 to 451 inclusive)*

Tree ID:415. *Quercus ilex* (Holly Oak), Semi-mature Exotic evergreen.
DBH: 4cm. HxW (m): 2 x 1. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. . TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: DDO10, PP_Undersize.



Tree ID:416. *Banksia integrifolia* (Coast Banksia), Young Victorian native.
DBH: 6cm. HxW (m): 3 x 1. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. Partly suppressed - crown bias, sth. TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: DDO10, PP_Undersize.



Tree ID:417. *Banksia integrifolia* (Coast Banksia), Semi-mature Victorian native.
DBH: 9cm. HxW (m): 3 x 2. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. . TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: DDO10, PP_Undersize.



Tree ID:418. *Banksia integrifolia* (Coast Banksia), Semi-mature Victorian native.
DBH: 7cm. HxW (m): 2 x 1. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. . TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: DDO10, PP_Undersize.



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Tree ID:419. *Banksia integrifolia* (Coast Banksia), Semi-mature Victorian native.
DBH: 6cm. HxW (m): 2 x 1. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. . TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: DDO10, PP_Undersize.



Tree ID:421. *Banksia integrifolia* (Coast Banksia), Semi-mature Victorian native.
DBH: 8cm. HxW (m): 5 x 2. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. . TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: DDO10, PP_Undersize.



Tree ID:420. *Banksia integrifolia* (Coast Banksia), Semi-mature Victorian native.
DBH: 10cm. HxW (m): 3 x 2. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. . TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: DDO10, PP_Undersize.



Tree ID:422. *Banksia integrifolia* (Coast Banksia), Semi-mature Victorian native.
DBH: 8cm. HxW (m): 4 x 2. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. . TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: DDO10, PP_Undersize.



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Tree ID:423. *Banksia integrifolia* (Coast Banksia), Semi-mature Victorian native.
DBH: 8cm. HxW (m): 3 x 3. Health: Fair to Poor. Structure: Fair. Arb. Rating: Mod.C. Canker/galls, partly suppressed - crown bias, sth. TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: DDO10, PP_Undersize.



Tree ID:425. *Banksia integrifolia* (Coast Banksia), Semi-mature Victorian native.
DBH: 9cm. HxW (m): 2 x 3. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. . TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: DDO10, PP_Undersize.



Tree ID:424. *Banksia integrifolia* (Coast Banksia), Semi-mature Victorian native.
DBH: 12cm. HxW (m): 3 x 3. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. . TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: DDO10, PP_Undersize.



Tree ID:426. *Banksia integrifolia* (Coast Banksia), Semi-mature Victorian native.
DBH: 9cm. HxW (m): 3 x 2. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. . TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: DDO10, PP_Undersize.



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Tree ID:427. *Banksia integrifolia* (Coast Banksia), Semi-mature Victorian native.
DBH: 8cm. HxW (m): 3 x 3. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. Partly suppressed - crown bias, sw. TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: DDO10, PP_Undersize.



Tree ID:429. *Banksia integrifolia* (Coast Banksia), Semi-mature Victorian native.
DBH: 9cm. HxW (m): 3 x 2. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. . TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: DDO10, PP_Undersize.



Tree ID:428. *Banksia integrifolia* (Coast Banksia), Semi-mature Victorian native.
DBH: 10cm. HxW (m): 3 x 2. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. Canker/galls. TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: DDO10, PP_Undersize.



Tree ID:430. *Banksia integrifolia* (Coast Banksia), Semi-mature Victorian native.
DBH: 8cm. HxW (m): 2 x 2. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. . TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: DDO10, PP_Undersize.



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Tree ID:431. *Allocasuarina verticillata* (Drooping She-oak), Semi-mature Victorian native.
DBH: 10cm. HxW (m): 3 x 3. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. . TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: DDO10, PP_Undersize.



Tree ID:433. *Allocasuarina verticillata* (Drooping She-oak), Semi-mature Victorian native.
DBH: 9cm. HxW (m): 3 x 2. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. . TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: DDO10, PP_Undersize.



Tree ID:432. *Allocasuarina verticillata* (Drooping She-oak), Semi-mature Victorian native.
DBH: 6cm. HxW (m): 3 x 1. Health: Fair. Structure: Fair to Poor. Arb. Rating: Low. Basal wounds, trunk wounds. TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: DDO10, PP_Undersize.



Tree ID:434. *Allocasuarina verticillata* (Drooping She-oak), Semi-mature Victorian native.
DBH: 9cm. HxW (m): 3 x 3. Health: Good. Structure: Fair. Arb. Rating: Mod.C. . TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: DDO10, PP_Undersize.



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Tree ID:435. *Allocasuarina verticillata* (Drooping She-oak), Semi-mature Victorian native.
DBH: 8cm. HxW (m): 5 x 2. Health: Good. Structure: Fair. Arb. Rating: Mod.C. Basal wounds. TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: DDO10, PP_Undersize.



Tree ID:436. *Allocasuarina verticillata* (Drooping She-oak), Maturing Victorian native.
DBH: 44cm. HxW (m): 7 x 10. Health: Good. Structure: Fair. Arb. Rating: Mod.B. Acute forks, included bark forks, over-extended limbs developing, nth. TPZ (rad. m): 5.3. SRZ (rad. m): 2.5. Permit: DDO10, PP_Undersize.



Tree ID:437. *Lagunaria patersonia* (Norfolk Island Hibiscus), Early-mature Australian native.
DBH: 23,20,15,14cm. HxW (m): 7 x 9. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. Multi-stemmed. TPZ (rad. m): 4.4. SRZ (rad. m): 2.5. Permit: DDO10, PP_LL_permit.



Tree ID:438. *Allocasuarina verticillata* (Drooping She-oak), Semi-mature Victorian native.
DBH: 11cm. HxW (m): 4 x 4. Health: Fair. Structure: Fair to Poor. Arb. Rating: Mod.C. Congested primary union, lopped. TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: DDO10, PP_Undersize.



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Tree ID:439. *Lagunaria patersonia* (Norfolk Island Hibiscus), Early-mature Australian native.
DBH: 13,10,7,7cm. HxW (m): 6 x 5. Health: Fair. Structure: Fair to Poor. Arb. Rating: Mod.C. Multi-stemmed. TPZ (rad. m): 2. SRZ (rad. m): 2.1. Permit: DDO10, PP_Undersize.



Tree ID:441. *Lagunaria patersonia* (Norfolk Island Hibiscus), Early-mature Australian native.
DBH: 22,22,9cm. HxW (m): 7 x 7. Health: Fair. Structure: Fair to Poor. Arb. Rating: Mod.C. Co-dominant stems, included bark. TPZ (rad. m): 3.7. SRZ (rad. m): 2.4. Permit: DDO10, PP_LL_permit.



Tree ID:440. *Allocasuarina verticillata* (Drooping She-oak), Maturing Victorian native.
DBH: 36cm. HxW (m): 7 x 8. Health: Fair. Structure: Fair to Poor. Arb. Rating: Mod.C. Included bark forksw compression flaring. TPZ (rad. m): 4.3. SRZ (rad. m): 2.2. Permit: DDO10, PP_Undersize.



Tree ID:442. *Allocasuarina verticillata* (Drooping She-oak), Early-mature Victorian native.
DBH: 20cm. HxW (m): 5 x 6. Health: Fair to Poor. Structure: Fair to Poor. Arb. Rating: Mod.C. Dieback, main leader dead, partly suppressed - crown bias, nth. TPZ (rad. m): 2.4. SRZ (rad. m): 1.8. Permit: DDO10, PP_Undersize.



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Tree ID:443. *Allocasuarina verticillata* (Drooping She-oak), Young Victorian native.
DBH: 5cm. HxW (m): 3 x 1. Health: Fair. Structure: Fair to Poor. Arb. Rating: Low. Partly suppressed - crown bias, nth. 75cm off path. TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: DDO10, PP_Undersize.



Tree ID:445. *Allocasuarina verticillata* (Drooping She-oak), Semi-mature Victorian native.
DBH: 15cm. HxW (m): 5 x 6. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. . TPZ (rad. m): 2. SRZ (rad. m): 1.6. Permit: DDO10, PP_Undersize.



Tree ID:444. *Lagunaria patersonia* (Norfolk Island Hibiscus), Maturing Australian native.
DBH: 47cm. HxW (m): 7 x 7. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. . TPZ (rad. m): 5.6. SRZ (rad. m): 2.4. Permit: DDO10, PP_Undersize.



Tree ID:446. *Lagunaria patersonia* (Norfolk Island Hibiscus), Maturing Australian native.
DBH: 61cm. HxW (m): 9 x 10. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. . TPZ (rad. m): 7.3. SRZ (rad. m): 3. Permit: DDO10, PP_LL_permit.



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Tree ID:447. *Allocasuarina verticillata* (Drooping She-oak), Early-mature Victorian native.
DBH: 23cm. HxW (m): 5 x 6. Health: Good. Structure: Fair. Arb. Rating: Mod.B. . TPZ (rad. m): 2.8. SRZ (rad. m): 1.9. Permit: DDO10, PP_Undersize.



Tree ID:448. *Lagunaria patersonia* (Norfolk Island Hibiscus), Maturing Australian native.
DBH: 54cm. HxW (m): 8 x 9. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. . TPZ (rad. m): 6.5. SRZ (rad. m): 2.7. Permit: DDO10, PP_LL_permit.



Tree ID:449. *Allocasuarina verticillata* (Drooping She-oak), Maturing Victorian native.
DBH: 26cm. HxW (m): 6 x 7. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. . TPZ (rad. m): 3.1. SRZ (rad. m): 2. Permit: DDO10, PP_Undersize.



Tree ID:450. *Lagunaria patersonia* (Norfolk Island Hibiscus), Maturing Australian native.
DBH: 42cm. HxW (m): 8 x 7. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. . TPZ (rad. m): 5. SRZ (rad. m): 2.5. Permit: DDO10, PP_Undersize.



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Tree ID:451. *Coprosma Xkirkii* (Variegated Coprosma), Early-mature Exotic evergreen.
DBH: 13cm. HxW (m): 4 x 4. Health: Fair. Structure: Fair to Poor. Arb. Rating: Mod.C. Woody weed sp C lucida?. TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: DDO10, PP_Undersize.



Tree ID:452. *Euonymus japonicus* (Spindle Tree), Early-mature Exotic evergreen.
DBH: 6,6,6,5,4cm. HxW (m): 2 x 5. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. Hedged. TPZ (rad. m): 2. SRZ (rad. m): 1.8. Permit: DDO10, PP_Undersize.



Tree ID:453. *Ligustrum ovalifolium* (Japanese Privet), Early-mature Exotic evergreen.
DBH: 3,2,2,2,2cm. HxW (m): 3 x 3. Health: Fair. Structure: Fair to Poor. Arb. Rating: Mod.C. Multi-stemmed, woody weed sp. TPZ (rad. m): 2. SRZ (rad. m): 1.8. Permit: DDO10, PP_Undersize.



Tree ID:454. *Banksia integrifolia* (Coast Banksia), Semi-mature Victorian native.
DBH: 9cm. HxW (m): 4 x 2. Health: Fair. Structure: Fair. Arb. Rating: Mod.C. . TPZ (rad. m): 2. SRZ (rad. m): 1.5. Permit: DDO10, PP_Undersize.



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Tree ID:455. *Quercus ilex* (Holly Oak), Early-mature Exotic evergreen. DBH: 31cm. HxW (m): 7 x 6. Health: Fair. Structure: Fair. Arb. Rating: Mod.B. Partly suppressed - crown bias, sw. TPZ (rad. m): 3.7. SRZ (rad. m): 2.2. Permit: DDO10, PP_Undersize.



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Appendix 3: Arboricultural Descriptors

(June 2018)

Note that not all of the described tree descriptors may be used in a tree assessment and report. The assessment is undertaken with regard to contemporary arboricultural practices and consists of a visual inspection of external and above-ground tree parts.

1. Tree Condition

The assessment of tree condition evaluates factors of health and structure. The descriptors of health and structure attributed to a tree evaluate the individual specimen to what could be considered typical for that species growing in its location under current climatic conditions. For example, some species can display inherently poor branching architecture, such as multiple acute branch attachments with included bark. Whilst these structural defects may technically be considered arboriculturally poor, they are typical for the species and may not constitute an increased risk of failure. These trees may be assigned a structural rating of fair-poor (rather than poor) at the discretion of the assessor.

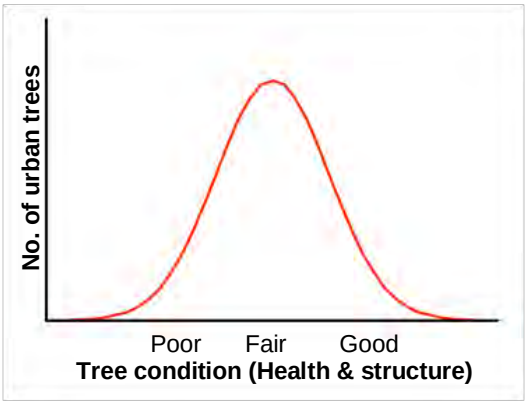


Diagram 1: Indicative normal distribution curve

Diagram 1, provides an indicative distribution curve for tree condition to illustrate that within a normal tree population the majority of specimens are centrally located within the condition range (normal distribution curve). Furthermore, that those individual trees with an assessed condition approaching the outer ends of the spectrum occur less often.

2. Tree Name

Provides botanical name, (genus, species, variety and cultivar) according to accepted international code of taxonomic classification, and common name.

3. Tree Type

Describes the general geographic origin of the species and its type e.g. deciduous or evergreen.

Category	Description
Indigenous	Occurs naturally in the area or region of the subject site. Remnant.
Victorian native	Occurs naturally within some part of the State of Victoria (not exclusively) but is not indigenous (component of EVC benchmark). Could be planted indigenous trees.
Australian native	Occurs naturally within Australia but is not a Victorian native or indigenous
Exotic deciduous	Occurs outside of Australia and typically sheds its leaves during winter
Exotic evergreen	Occurs outside of Australia and typically holds its leaves all year round
Exotic conifer	Occurs outside of Australia and is classified as a gymnosperm
Native conifer	Occurs naturally within Australia and is classified as a gymnosperm
Native Palm	Occurs naturally within Australia. Woody monocotyledon
Exotic Palm	Occurs outside of Australia. Woody monocotyledon

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4. Height and Width

Indicates height and width of the individual tree; dimensions are expressed in metres. Crown heights are measured with a height meter where possible. Due to the topography of some sites and/or the density of vegetation it may not be possible to do this for every tree. Tree heights may be estimated in line with previous height meter readings in conjunction with assessor's experience. Crown widths are generally paced (estimated) at the widest axis or can be measured on two axes and averaged. In some instances the crown width can be measured on the four cardinal direction points (North, South, East and West).

Crown height, crown spread are generally recorded to the nearest half metre (crown spread would be rounded up) for dimensions up to 10 m and the nearest whole metre for dimensions over 10 m. Estimated dimensions (e.g. for off-site or otherwise inaccessible trees where accurate data cannot be recovered) shall be clearly identified in the assessment data.

5. Trunk diameters

The position where trunk diameters are captured may vary dependent on the requirements of the specific assessment and an individual trees specific characteristics. DBH is the typical trunk diameter captured as it relates to the allocation of tree protection distances. The basal trunk diameter assists in the allocation of a structural root zone. Some municipalities require trunk diameters be captured at different heights, with 1.0 m above grade being a common requirement. The specific planning schemes will be checked to ascertain requirements.

Stem diameters shall be recorded in centimetres, rounded to the nearest 1 cm (0.01 m).

Diameter at Breast Height (DBH)

Indicates the trunk diameter (expressed in centimetres) of an individual tree measured at 1.4m above the existing ground level or where otherwise indicated, multiple leaders are measured individually. Plants with multiple leader habit may be measured at the base. The range of methods to suit particular trunk shapes, configurations and site conditions can be seen in Appendix A of Australian Standard *AS 4970-2009 Protection of trees on development site*s. Measurements undertaken using foresters tape or builders tape.

Basal trunk diameter

The basal dimension is the trunk diameter measured at the base of the trunk or main stem(s) immediately above the root buttress. Used to ascertain the Structural Root Zone (SRZ) as outlined in AS4970.

6. Age class

Relates to the physiological stage of the tree's life cycle.

Category	Description
Young	Sapling tree and/or recently planted. Approximately 5 or less years in location.
Semi-mature	Tree increasing in size and yet to achieve expected size in situation. Primary developmental stage.
Early-mature	Tree established, generally growing vigorously. > 50% of attainable age/size.
Mature	Specimen approaching expected size in situation, with reduced incremental growth.
Over-mature	Mature full-size with a retrenching crown. Tree is senescent and in decline. Significant decay generally present.

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7. Health

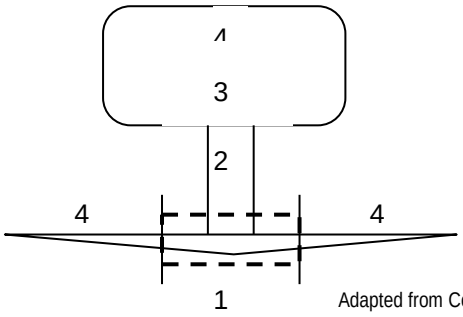
Assesses various attributes to describe the overall health and vigour of the tree.

Health Category	Vigour, Extension growth	Decline symptoms, Deadwood, Dieback	Foliage density, colour, size, intactness	Pests and or disease
Good	Above typical. Excellent. Full canopy density	Negligible	Better than typical	Negligible
Fair	Typical vigour. >80% canopy density	Minor or expected. Little or no dead wood	Typical. Minor deficiencies or defects could be present.	Minor, within damage thresholds
Fair to Poor	Below typical - low vigour	More than typical. Small sub-branch dieback	Exhibiting deficiencies. Could be thinning, or smaller	Exceeds damage thresholds
Poor	Minimal - declining	Excessive, large and/or prominent amount & size of dead wood	Exhibiting severe deficiencies. Thinning foliage, generally smaller or deformed	Extreme and contributing to decline
Dead	N/A	N/A	N/A	N/A

8. Structure

Assesses principal components of tree structure (Diagram 2).
Structure ratings will also take into account general branching architecture, stem taper, live crown ratio, crown symmetry (bias or lean) and crown position such as tree being suppressed amongst more dominant trees.

Diagram 2: Tree structure zones



1. Root plate & lower stem
2. Trunk
3. Primary branch support

Adapted from Coder (1996)

The lowest or worst descriptor assigned to the tree in any column could generally be the overall rating assigned to the tree. The assessment for structure is limited to observations of external and above ground tree parts. It does not include any exploratory assessment of underground or internal tree parts unless this is requested as part of the investigation. Trees are assessed and then given a rating for a point in time. Generally, trees with a poor or very poor structure are beyond the benefit of practical arboricultural treatments.

The management of trees in the urban environment requires appropriate arboricultural input and consideration of risk. Risk potential will take into account the combination of likelihood of failure and impact, including the perceived importance of the target(s). See table over page.

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Structure Category	Zone 1 - Root plate & lower stem	Zone 2 - Trunk	Zone 3 - Primary branch support	Zone 4 - Outer crown and roots
Good	No obvious damage, disease or decay; obvious basal flare / stable in ground	No obvious damage, disease or decay; well tapered	Well formed, attached, spaced and tapered. No history of failure.	No obvious damage, disease, decay or structural defect. No history of failure.
Fair	Minor damage or decay. Basal flare present.	Minor damage or decay	Generally well attached, spaced and tapered branches. Minor structural deficiencies may be present or developing. No history of branch failure.	Minor damage, disease or decay; minor branch end-weight or over-extension. No history of branch failure.
Fair to Poor	Moderate damage or decay; minimal basal flare.	Moderate damage or decay; approaching recognised thresholds	Weak, decayed or with acute branch attachments; previous branch failure evidence.	Moderate damage, disease or decay; moderate branch end-weight or over-extension. Minor branch failure evident.
Poor	Major damage, disease or decay; fungal fruiting bodies present. Excessive lean placing pressure on root plate	Major damage, disease or decay; exceeds recognised thresholds; fungal fruiting bodies present. Acute lean. Stump re-sprout	Decayed, cavities or has acute branch attachments with included bark; excessive compression flaring; failure likely. Evidence of major branch failure.	Major damage, disease or decay; fungal fruiting bodies present; major branch end-weight or over-extension. Branch failure evident.
Very Poor	Excessive damage, disease or decay; unstable / loose in ground; altered exposure; failure probable	Excessive damage, disease or decay; cavities. Excessive lean. Stump re-sprout	Decayed, cavities or branch attachments with active split; failure imminent. History of major branch failure.	Excessive damage, disease or decay; excessive branch end-weight or over-extension. History of branch failure.

Useful life expectancy

Assessment of useful life expectancy provides an indication of health and tree appropriateness and involves an estimate of how long a tree is likely to remain in the landscape based on species, stage of life (cycle), health, amenity, environmental services contribution, conflicts with adjacent infrastructure and risk to the community. It would enable tree managers to develop long-term plans for the eventual removal and replacement of existing trees in the public realm. It is not a measure of the biological life of the tree within the natural range of the species. It is more a measure of the health status and the trees positive contribution to the urban landscape.

Within an urban landscape context, particularly in relation to street trees, it could be considered a point where the costs to maintain the asset (tree) outweigh the benefits the tree is returning.

The assessment is based on the site conditions not being significantly altered and that any prescribed maintenance works are carried out (site conditions are presumed to remain relatively constant and the tree would be maintained under scheduled maintenance programs). See table over page.

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Useful Life Expectancy category	Typical characteristics
<1 year (No remaining ULE)	Tree may be dead or mostly dead. Tree may exhibit major structural faults. Tree may be an imminent failure hazard. Excessive infrastructure damage with high risk potential that cannot be remedied.
1-5 years (Transitory, Brief)	Tree is exhibiting severe chronic decline. Crown is likely to be less than 50% typical density. Crown may be mostly epicormic growth. Dieback of large limbs is common (large deadwood may have been pruned out). Tree may be over-mature and senescing. Infrastructure conflicts with heightened risk potential. Tree has outgrown site constraints.
6-10 years (Short)	Tree is exhibiting chronic decline. Crown density will be less than typical and epicormic growth is likely to present. The crown may still be mostly entire, but some dieback is likely to be evident. Dieback may include large limbs. Over-mature and senescing or early decline symptoms in short-lived species. Early infrastructure conflicts with potential to increase regardless of management inputs.
11-20 years (Moderate)	Tree not showing symptoms of chronic decline, but growth characteristics are likely to be reduced (bud development, extension growth etc.). Tree may be over-mature and beginning to senesce. Potential for infrastructure conflicts regardless of management inputs.
21-40 years (Moderately long)	Trees displaying normal growth characteristics but vigour is likely to be reduced (bud development, extension growth etc.). Tree may be growing in restricted environment (e.g. streetscapes) or may be in late maturity. Semi-mature and mature trees exhibiting normal growth characteristics. Juvenile trees in streetscapes.
>40 years (Long)	Generally juvenile and semi-mature trees exhibiting normal growth characteristics within adequate spaces to sustain growth, such as in parks or open space. Could also pertain to maturing, long-lived trees. Tree well suited to the site with negligible potential for infrastructure conflicts.

Note that ULE may change for a tree dependent on the prevailing climatic conditions, which can either increase or decrease, or sudden changes to a tree's growing environment creating an acute stress.

The ULE may not be applicable for trees that are manipulated, such as topiary, or grown for specific horticultural purposes, such as fruit trees.

There may be instances where remedial tree maintenance could be extend a tree's ULE.

9. Arboricultural Rating

Relates to the combination of tree condition factors, including health and structure (arboricultural merit), and also conveys an amenity value. Amenity relates to the trees biological, functional and aesthetic characteristics (Hitchmough 1994) within an urban landscape context. The presence of any serious disease or tree-related hazards that would impact risk potential are taken into account. See table over page.

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Arboricultural rating Category	Description
High	Tree of high quality in good to fair condition; good vigour. Generally a prominent arboricultural/landscape feature. Particularly good example of the species; rare or uncommon. Tree may have significant conservation or other cultural value. These trees have the potential to be a medium- to long-term components of the landscape (moderately long to long ULE) if managed appropriately. Retention of these trees is highly desirable.
Moderate	*General -* Tree of moderate quality, in fair or better condition. Tree may have a condition, and or structural problem that will respond to arboricultural treatment. These trees have the potential to be a moderate- to long-term component of the landscape (moderate to long ULE) if managed appropriately. Retention of these trees is generally desirable. The following sub-categories relate predominately to age and size and amenity.
	A. Moderate to large, maturing tree. Contributes to the landscape character. Tree may have conservation or other cultural value.
	B. Moderate sized, established tree, > 50% of attainable age/size. Contributes to the landscape character. Maturing tree with amenity value but with identified deficiencies
	C. Small and/or semi-mature tree, established, >5 years in the location. May not be a dominant canopy. No special qualities. Maturing tree, accumulating deficiencies, trending towards being of Low arboricultural value.
Low	Unremarkable tree of low quality or little amenity value. Tree in either poor health or with poor structure or a combination. Short to transitory useful life expectancy. Tree is not significant because of either its size or age, such as young trees with a stem diameter below 15 cm. Trees regularly pruned to restrict size. These trees are easily replaceable. Tree (species) is functionally inappropriate to specific location and would be expected to be problematic if retained. Retention of such trees may be considered if not requiring a disproportionate expenditure of resources for a tree in its condition and location.
Very Low	Trees of low quality with an estimated remaining life expectancy of less than 5 years. Tree has either a severe structural defect or health problem or combination that cannot be sustained with practical arboricultural techniques and the loss of the tree would be expected in the short term. Trees that are dead or are showing signs of significant, immediate, and irreversible overall decline. Tree infected with pathogens of significance to either the health or safety of the tree or other adjacent trees. Tree whose retention would not be viable after the removal of adjacent trees (includes trees that have developed in close spaced groups and would not be expected to acclimatise to severe alterations to surrounding environment – removal of adjacent shelter trees). Tree has a detrimental effect on the environment, for example, the tree is a recognised environmental woody weed with potential to spread into waterways or natural areas. Unremarkable tree of no material landscape, conservation or other cultural value.

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Trees have many values, not all of which are considered when an arboricultural assessment is undertaken. However, individual trees or tree group features may be considered important community resources because of unique or noteworthy characteristics or values other than their age, dimensions, health or structural condition. Recognition of one or more of the following criterion is designed to highlight other considerations that may influence the future management of such trees.

Significance	Description
Horticultural Value/ Rarity	Outstanding horticultural or genetic value; could be an important source of propagating stock, including specimens that are particularly resistant to disease or exposure. Any tree of a species or variety that is rare.
Historic, Aboriginal Cultural or Heritage Value	Tree could have value as a remnant of a particular important historical period or a remnant of a site or activity no longer in action. Tree has a recognised association with historic aboriginal activities, including scar trees. Tree commemorates a particular occasion, including plantings by notable people, or having associations with an important event in local history.
Ecological Value	Tree could have value as habitat for indigenous wildlife, including providing breeding, foraging or roosting habitat, or is a component of a wildlife reserve. Remnant Indigenous vegetation that contribute to biological diversity

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Appendix 4: Tree protection zones

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Introduction

In order to sustain trees on a development site consideration must be given to the establishment of tree protection zones.

The physical dimensions of tree protection zones can sometimes be difficult to define. The projection of a tree's crown can provide a guide but is by no means the definitive measure. The unpredictable nature of roots and their growth, differences between species and their tolerances, and observable and hidden changes to the trees growing environment, as a result of development, are variables that must be considered.

Most vigorous, broad canopied trees survive well if the area within the drip-line of the canopy is protected. Fine root density is usually greater beneath the canopy than beyond (Gilman, 1997). If few to no roots over 3cm in diameter are encountered and severed during excavation the tree will probably tolerate the impact and root loss. A healthy tree can sustain a loss of between 30% and 50% of absorbing roots (Harris, Clark, Matheny, 1999), however encroachment into the structural root system of a tree may be problematic.

The structural root system of a tree is responsible for ensuring the stability of the entire tree structure in the ground. A tree could not sustain loss of structural root system and be expected to survive let alone stand up to average annual wind loads upon the crown.

Allocation of tree protection zone (TPZ)

The method of allocating a TPZ to a particular tree will be influenced by site factors, the tree species, its age and developed form.

Once it has been established, through an arboricultural assessment, which trees and tree groups are to be retained, the next step will require careful management through the development process to minimise any impacts on the designated trees. The successful retention of trees on any particular site will require the commitment and understanding of all parties involved in the development process. The most important activity, after determining the trees that will be retained is the implementation of a TPZ.

The intention of tree protection zones is to:

- mitigate tree hazards;
- provide adequate root space to sustain the health and aesthetics of the tree into the future;
- minimise changes to the trees growing environment, which is particularly important for mature specimens;
- minimise physical damage to the root system, canopy and trunk; and
- define the physical alignment of the tree protection fencing

Tree protection

The most important consideration for the successful retention of trees is to allow appropriate above and below ground space for the trees to continue to grow. This requires the allocation of tree protection zones for retained trees.

The Australian Standard AS 4970-2009 Protection of trees on development sites has been used as a guide in the allocation of TPZs for the assessed trees.

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The TPZ for individual trees is calculated based on trunk (stem) diameter (DBH), measured at 1.4 metres up from ground level. The radius of the TPZ is calculated by multiplying the trees DBH by 12. The method provides a TPZ that addresses both the stability and growing requirements of a tree. TPZ distances are measured as a radius from the centre of the trunk at (or near) ground level. The minimum TPZ should be no less than 2m and the maximum no more than 15m radius. The TPZ of palms should be not less than 1.0m outside the crown projection.

Encroachment into the TPZ is permissible under certain circumstances though is dependent on both site conditions and tree characteristics. Minor encroachment, up to 10% of the TPZ, is generally permissible provided encroachment is compensated for by recruitment of an equal area contiguous with the TPZ. Examples are provided in Diagram 1. Encroachment greater than 10% is considered major encroachment under AS4970-2009 and is only permissible if it can be demonstrated that after such encroachment the tree would remain viable.

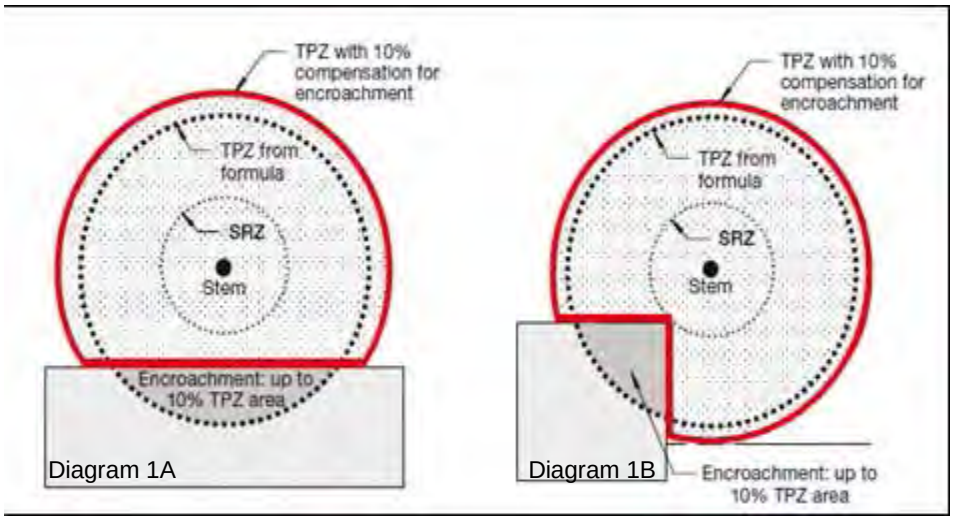


Diagram 1: Examples of minor encroachment into a TPZ.

(Extract from: AS4970-2009, Appendix D, p30 of 32)

The 10% encroachment on one side equates to approximately ⅓ radial distance. Tree root growth is opportunistic and occurs where the essentials to life (primarily air and water) are present. Heterogeneous soil conditions, existing barriers, hard surfaces and buildings may have inhibited the development of a symmetrically radiating root system.

Existing infrastructure around some trees may be within the TPZ or root plate radius. The roots of some trees may have grown in response to the site conditions and therefore if existing hard surfaces and building alignments are utilised in new designs the impacts on the trees should be minimal. The most reliable way to estimate root disturbance is to find out where the roots are in relation to the demolition, excavation or construction works that will take place (Matheny & Clark, 1998). Exploratory excavation prior to commencement of construction can help establish the extent of the root system and where it may be appropriate to excavate or build.

The TPZ should also give consideration to the canopy and overall form of the tree. If the canopy requires severe pruning in order to accommodate a building and in the process the form of the tree is diminished it may be worthwhile considering altering the design or removing the tree.

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General tree protection guidelines

The most important factors are:

- Prior to construction works the trees nominated for tree works should be pruned to remove larger dead wood. Pruning works may also identify other tree hazards that require remedial works.
- Installation of tree protection fencing. Once the tree protection zones have been determined the next step is to mulch the zone with woodchip and erect tree protection fencing. This must be completed prior to any materials being brought on-site, erection of temporary site facilities or demolition/earth works. The protection fencing must be sturdy and withstand winds and construction impacts. The protection fence should only be moved with approval of the site supervisor. Other root zone protection methods can be incorporated if the TPZ area needs to be traversed.
- Appropriate signage is to be fixed to the fencing to alert people as to importance of the tree protection zone.
- The importance of tree preservation must be communicated to all relevant parties involved with the site.
- Inspection of trees during excavation works.

TPZ fencing

TPZ fencing must be in the form of either temporary fencing panels with concrete block feet and locked together or water filled barriers with locking pins installed. TPZ fencing must be sufficiently robust to withstand knocks and bumps from plant and machinery, delivery vehicles, storage of materials and dumping of spoil.

- Appropriate signage stating 'Tree protection Zone- No access' is to be fixed to the fencing to alert people as to importance of the tree protection zone.

Refer to Figure 1 for fencing example.



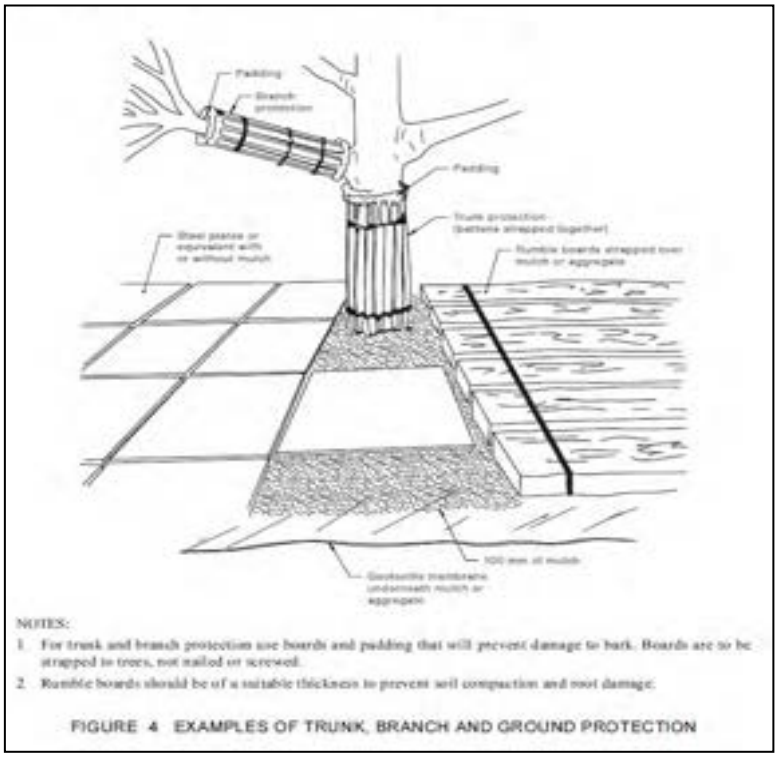
Figure 1. Above left - Example of TPZ fencing above right -Example of TPZ signage.

Ground buffering

Where works are required to be undertaken within the Tree root zone without penetration of the surface, ground buffering and trunk and limb protection must be provided to minimise the potential for soil to become compacted and avoid potential for impact wounds to occur to surface roots, trunk or limbs.
Refer to Diagram 2 below.

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Diagram 2: Examples of ground buffering and trunk and limb protection.



(Extract from: AS4970-2009, Appendix D, pg17)

Exploratory excavation

The most reliable way to estimate root disturbance is to find out where the roots are in relation to the demolition, excavation or construction works that will take place (Matheny & Clark, 1998).

Exploratory excavation prior to commencement of construction can help establish the extent of the root system and where it may be appropriate to excavate or build. This also allows management decisions to be made and allows time for redesign works if required.

Any exploratory excavation within the allocated TPZ is to be undertaken with due care of the roots. Minor exploration is possible with hand tools. More extensive exploration may require the use of high pressure water or air excavation techniques. Either hydraulic or pneumatic excavation techniques will safely expose tree roots; both have specific benefits dependent on the situation and soil type. An arborist is to be consulted on which system is best suited for the site conditions.

Substantial roots are to be exposed and left intact.

Once roots are exposed decisions can be made regarding the management of the tree. Decisions will be dependent on the tree species, its condition, its age, its relative tolerance to root loss, and the amount of root system exposed and requiring pruning.

Other alternative measures to encroaching the TPZ may include boring or tunnelling.

How to determine the diameter of a substantial root

The size of a substantial root will vary according to the distance of the exposed root to the trunk of the tree. The further away from the trunk of a tree that a root is, the less significant the root is likely to be to the tree's health and stability.

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The determination of what is a substantial root is often difficult because the form, depth and spread of roots will vary between species and sites. However, because smaller roots are connected to larger roots in a framework, there can be no doubt that if larger roots are severed, the smaller roots attached to them will die. Therefore, the larger the root, the more significant it may be.

Gilman (1997) suggests that trees may contain 4-11 major lateral roots and that the five largest lateral roots account (act as a conduit) for 75% of the total root system.

These large lateral roots quickly taper within a distance to the tree, this distance is identified as the Structural Root Zone (SRZ). Within the SRZ distance, all roots and the soil surrounding the roots are deemed significant.

No root or soil disturbance is permitted within the SRZ.
In the area outside the SRZ the tree may tolerate the loss of one or a number of roots. The table below indicates the size of tree roots, outside the SRZ that would be deemed substantial for various tree heights. The assessment of combined root loss within the TPZ would need to be undertaken by an arborist on an individual basis because the location of the tree, its condition and environment would need to be assessed.

Table 1: Estimated significant root sizes outside SRZ

Height of tree	Diameter of root
Less than 5m	≥ 30mm
Between 5m - 15m	≥ 50mm
More than 15m	≥ 70mm

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Construction Guidelines

The following are guidelines that must be implemented to minimise the impact of the proposed construction works on the retained trees.

- The Tree Protection Zone (TPZ) is fenced and clearly marked at all times. The actual fence specifications should be a minimum of 1.2 - 1.5 metres of chain mesh or like fence with 1.8 meter posts (e.g. treated pine or star pickets) or like support every 3-4 metres and a top line of high visibility plastic hazard tape. The posts should be strong enough to sustain knocks from on site excavation equipment. This fence will deter the placement of building materials, entry of heavy equipment and vehicles and also the entry of workers and/or the public into the TPZ. Note: There are many different variations on the construction type and material used for TPZ fences, suffice to say that the fence should satisfy the responsible authority.
- Contractors and site workers should receive written and verbal instruction as to the importance of tree protection and preservation within the site. Successful tree preservation occurs when there is a commitment from all relevant parties involved in designing, constructing and managing a development project. Members of the project team need to interact with each other to minimise the impacts to the trees, either through design decisions or construction practices. The importance of tree preservation must be communicated to all relevant parties involved with the site.
- The consultant arborist is on-site to supervise excavation works around the existing trees where the TPZ will be encroached.
- A layer of organic mulch (woodchips) to a depth of no more than 100mm should be placed over the root systems within the TPZ of trees, which are to be retained so as to assist with moisture retention and to reduce the impact of compaction.
- No persons, vehicles or machinery to enter the TPZ without the consent of the consulting arborist or site manager.
- Where machinery is required to operate inside the TPZ it must be a small skid drive machine (i.e Dingo or similar) operating only forwards and backwards in a radial direction facing the tree trunk and not altering direction whilst inside the TPZ to avoid damaging, compacting or scuffing the roots.
- Any underground service installations within the allocated TPZ should be bored and utility authorities should common trench where possible.
- No fuel, oil dumps or chemicals shall be allowed in or stored on the TPZ and the servicing and re-fuelling of equipment and vehicles should be carried out away from the root zones.
- No storage of material, equipment or temporary building should take place over the root zone of any tree.
- Nothing whatsoever should be attached to any tree including temporary services wires, nails, screws or any other fixing device.
- Supplementary watering should be provided to all trees through any dry periods during and after the construction process. Proper watering is the most important maintenance task in terms of successfully retaining the designated trees. The areas under the canopy drip lines should be mulched with woodchip to a depth of no more than 100mm. The mulch will help maintain soil moisture levels. Testing with a soil probe in a number of locations around the tree will help ascertain soil moisture levels and requirements to irrigate. Water needs to be applied slowly to avoid runoff. A daily watering with 5 litres of water for every 30 mm of trunk calliper may provide the most even soil moisture level for roots (Watson & Himelick, 1997), however light frequent irrigations should be avoided. Irrigation should wet the entire root zone and be allowed to dry out prior to another application. Watering should continue from October until April.

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- To the writer's knowledge all facts, matter and all assumptions upon which the Report proceeds have been stated within the body of the report and all opinion contained within the report will be fully researched and referenced and any such opinion not duly researched is based upon the writer's experience and observations.

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Appendix G: Landscape Specification document

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LANDSCAPE SPECIFICATION

ELSTERNWICK MAIN DRAIN AUGMENTATION

DRAFT FOR REVIEW

Bent Ave, Brighton

Prepared for:
Melbourne Water

DOCUMENT NO: MEG250-21-TD-EV-SPC-0001,

Date:14.10.24

Revision : A

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URBIS

URB-LA-P0039825-SP

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Urbis' Economic and Social Advisory team has received ISO 20252 Certification for the provision of Economic and Social Research and Evaluation.
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1. NOTES TO THE CONTRACTOR

This Landscape Specification outlines the tender, construction and maintenance instructions for the Contractor to undertake Landscape Works documented by Urbis.

1.1. SCOPE OF WORK

The scope of works is described in the Landscape Works Package which includes:

- These General and Technical Specification Notes
- Schedule of Landscape Works
- Plant Schedule
- Drawings;

and any other documentation, which may be issued during the tender period and the construction of the works. Refer also to documentation prepared for the project by other Consultants.

The Contractor shall be responsible for and shall provide all necessary materials, labour and equipment to carry out the works shown in this Landscape Works Package.

1.2. DEFINITIONS

'Contractor'	means a person, business or company who has entered into a Contract with the Head Contractor or Client to provide landscape works as described in the Contract, the contract drawings and contract specification. This includes employees, sub-contractors and agents of the person, business or company
'Defects Liability Period'	equivalent to the specified maintenance period
'Establishment Period'	equivalent to the specified maintenance period
'Landscape Architect'	means the nominated representative of Urbis working on behalf of the client
'Project Manager'	means the nominated representative of the Client
'The Site'	the area where the contracted works are to be undertaken
'The Works'	the activities included in the Contract that have been outlined in the Landscape Works Package

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1.3. QUALIFICATIONS

The Contractor's personnel shall be suitably qualified and competent in all aspects of the landscape works and shall be conversant with all relevant Australian Standards and other relevant regulations / guidelines.

Landscape works must be supervised by an onsite qualified person / foreman who is experienced in this work. The whole of the work must be executed to the requirements of the specification.

A Qualified Landscape Person:

- For Supervising landscape construction and establishment works - is considered to be a person with a minimum of 5 years current experience in commercial landscape construction projects.
- For undertaking landscape rehabilitation construction and establishment works - is considered to be a person with a minimum of 5 years current experience in commercial land revegetation and regeneration.
- For being the supervising Project Arborist and preparing arborist certification - is considered to be a person with a minimum of an AQF Level 5 qualification in Arboriculture and a minimum 5 years current experience in tree protection, hazard identification / mitigation, AS 4970 (Protection of trees on development sites) and AS 2303 (tree stock for landscape use) assessment.
- For assessing and certifying soil quality - is considered to be an Agronomist with a minimum of 3 years current experience in soil testing
- For all maintenance work to new and existing trees – is considered to be an Arborist with formal qualifications (AQF Level 3) or at least five (5) years recognised experience in Arboriculture.

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2. QUALITY AND RESPONSIBILITIES

2.1. RESPONSIBILITY

The Contractor shall be responsible for and shall provide all necessary materials, labour and equipment to carry out the works as well as any exploratory works required to ascertain the exact position of existing services and required processes to ensure their protection. All the Contractor's employees are to be made aware of any underground services.

The Contractor is responsible for the management of the construction site and control of construction activities throughout the period of the Contract, with particular attention to reducing the impact of the construction work on members of the public, adjacent and nearby properties and other areas of the site not part of the Contract.

Prior to commencing work the Contractor must contact the Melbourne Water PM to attain the most current Landscape Works Package documentation.

2.2. SAFETY AND CONDUCT

The Contractor is responsible for:

- Carrying out the Contract in a safe manner. Taking due care to prevent injuries to the public or to people involved in the project.
- Ensuring the supply and erection of construction zone fencing to protect their works for the duration of the contract works, if not done so by the Head Contractor already. Contractor to confirm.
- Coordinating and facilitating pedestrian and vehicular traffic flow safely and unhindered around and the works/site, if not done so by the Head Contractor already. Contractor to confirm.
- Ensuring there is to be no foul language, racist, sexist, violent or degrading behaviour.

The Contractor will immediately notify and furnish a written report to the Melbourne Water PM if any of the following occurs in connection with the works:

- Accidents involving death or personal injury;
- Accidents involving loss of time;
- Incidents with accident potential such as equipment failure, collapses and the like.

2.3. ENVIRONMENTAL PROTECTION

The Contractor will ensure that all materials and the execution of the work are ecologically sound, environmentally benign and consistent with the principles of sustainable development.

The Contractor is to ensure that no damage occurs to any existing trees or other plants which:

- Are specified to be retained;
- Are beyond the extent of works;
- Need not be removed or damaged during the course of the works.

The Contractor will prevent the spread of dirt and mud along roads and paths. The Contractor will install silt and sedimentation control for the work.

At all times the Contractor shall ensure that dust resulting from work in progress including excavation, backfilling, grading and dust from stockpiles is kept to an absolute minimum by use of a water truck or other approved methods.

Construction works shall be undertaken pursuant to the Environmental Protection Policy – Noise (EPP) in relation to control of noise from construction activities.

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The Contractor will be responsible for assessing any potential wildlife problems when tendering and during the course of the works. Allowance must be made for any protection or control of such pests the Contractor deems necessary including the prevention of Fire Ants entering the site via equipment, machinery, materials or plant stock.

Subsequent wildlife damage to planting or other works will be deemed as defective work and subject to replacement as per the normal contract conditions. Any proposed method of protection or control of pests must be agreed with the Melbourne Water PM prior to use on site.

Landscape works must not obstruct overland flow paths and must include adequate drainage to minimise ponding. Mulch or any floatable material must not be located in swales, overland flow paths or around grated drains; and must not encroach onto kerb and channel, footpaths, pedestrian or vehicular/ circulation areas.

2.4. EXISTING WORKS

Where works are adjacent to existing works, the Contractor is responsible for making the proper junction between new and existing works and for rectifying any damage caused by the Contractor to the adjoining works.

The Contractor shall not disturb the existing ground surface outside of works areas or locations shown on the drawings. However, if there is any damage outside of these areas, rectification works are to occur immediately.

2.5. WORKING NEAR HERITAGE ASSETS

The Contractor is required to protect the surfaces and footings of the heritage assets to ensure the works do not cause any damage. This includes installing temporary protection to brickwork and stonework and the installation of separation strips when new works (such as paving) abut heritage buildings.

Any damage must be reported to the Melbourne Water PM and will need to be repaired by suitably qualified tradespeople experienced in the repair of heritage assets.

A senior Archaeologist must be on-site at all times during any at-grade excavation works:

- that extend below the level of previous ground disturbance associated with existing structures or services
- are in areas identified as High or Moderate Archaeological Potential
- to oversee that excavations are cleaned and inspected every 10cm (minimum), excluding boreholes

Within areas identified as Low to Nil Archaeological Potential an archaeologist is not required to be directly on-site during any excavation work.

Avoid automatic watering systems close to heritage facades.

2.6. WORKMANSHIP, QUALITY & REGULATIONS

Performance of work is to be in accordance with all applicable laws, rules and regulations required by authorities having jurisdiction over such work. All work needs to comply with the National Construction Code (NCC) and relevant Australian Standards and Authority standards as applicable. In the absence of any other reference to standards, refer to the relevant current Australian Standard.

Any work which is not complying needs to be notified to the Melbourne Water PM.

The landscape works must be coordinated with all relevant authorities and compliant with the development Conditions of Approval and permits.

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Any work or materials, which, in the opinion of the Melbourne Water PM, do not meet appropriate industry standards of workmanship or quality will be rejected. It will be the Contractor's responsibility to remove rejected work and reinstall it to an acceptable standard at no additional cost to the Head Contractor / Client.

2.7. PRODUCTS, MATERIALS AND SAMPLES

Substitutions, product details and technical information for all materials and proprietary items are to be submitted to the Melbourne Water PM, and written approval gained prior to inclusion into the works. Obtain and submit reports on relevant tests by an independent testing authority as per this Landscape Specification or as requested by the Melbourne Water PM.

Overseas products and materials must be accompanied by relevant certification from a registered Australian Testing Authority to confirm the product or material achieves the performance requirements complying with the National Construction Code (NCC), relevant current Australian Standards, Green Star Requirement (if applicable) or any other relevant standards.

There are to be no sharp protrusions or abrasive edges, obtrusive fittings or fixtures. Each colour is to be a uniform finish and there is to be no staining of adjacent materials. All materials are to be corrosion free.

All materials likely to deteriorate by exposure to the weather shall be kept under cover at a location approved by the Melbourne Water PM. The Contractor shall be held responsible for loss or deterioration of materials (including plants) occurring during loading, unloading, transit or storage, no matter what the cause.

Supply samples as stated in the respective sections of this Landscape Specification. The Contractor is required to gain written approval from the Melbourne Water PM prior to inclusion into the works.

If a sample is not approved, samples are to be rectified or removed and replaced as required by the Melbourne Water PM. If approved, samples may be retained to form a part of the completed works.

Following approval, all remaining works are to match the quality of the sample.

2.8. MATERIAL AND SOIL TESTING & CERTIFICATION

Any testing required must be carried out by an authority registered with the National Association of Testing Authorities (NATA) to perform the specified testing.

The Contractor shall provide a Construction Certification Form 16 for all proposed structural elements certified under Form 15. The Contractor will need to provide a Certification Form 15 for all design and construct components (ie. timber decking).

Provide confirmation of compliant luminosity contrast testing of specified tactile surface ground indicators on a sample section of pavement.

If site soils are to be used, it is the Contractor's responsibility to undertake testing to ensure that all site soil is suitable for use and complies with the requirements set out in this Landscape Specification. Any rectification to the existing site soil required to bring it to the standard required is to be carried out by the Contractor at no additional cost to the Client.

All laboratory testing of soil shall be performed by a NATA approved soil laboratory. Site soil sampling shall be carried out in locations selected by the Melbourne Water PM. The recommended soil testing laboratory is SESL Australia.

2.9. CHANGES TO THE DESIGN

Any changes to the documented design due to constraints or unexpected issues on site needs to be reported to the Melbourne Water PM. The Contractor is not to proceed without a written approval by the Melbourne Water PM.

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2.10. PLANT PROCUREMENT

The Contractor will provide photographic evidence of the trees and plants to be supplied within 7 days of the upon award of the Contract. Within 4 weeks after the award of the Contract, all trees and plants are to be secured, with confirmation in writing to the Melbourne Water PM accompanied by photographic evidence of the actual plants secured. All trees and palms are to be tagged and numbered and photos are to be supplied from at least 2 different angles of the specimen. Adequate notification is to be provided to the Melbourne Water PM to enable nursery site visits to be carried out for final approval.

If suitable plants are not available due to ordering not occurring within the required 4 weeks of the award of the Contract, the Contractor is responsible for supplying suitable matching species in the same or larger size for the approval of the Melbourne Water PM.

It is the Contractor's responsibility to inspect all plants delivered to site, prior to unloading from the delivery truck. Any plants not suitable for installation will be rejected and sent back for replacement. Any plants that are unsuitable for installation due to poor form, heat, wind or water shock, overgrown form, disease, root binding or other damage are to be rejected. If any unsuitable plants are installed, and then rejected by the Melbourne Water PM, the rejected plants will be replaced by the Contractor at their expense.

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3. PRELIMINARIES

3.1. PROGRAM

Prior to commencement of works, the Contractor must submit to the Melbourne Water PM a detailed construction program which addresses supply, delivery to site, and installation of all Landscape works as well as identify any risks with the ordering of materials (expected lead times). The forecast commencement date and program must be advised a minimum of four weeks prior to commencing on site. Notification of intent to start site works to be supplied these parties one week prior to site works. An Inspection schedule shall be developed in conjunction with the Melbourne Water PM.

3.2. DILAPIDATION SURVEY

The Contractor shall prepare a dilapidation survey in the form of a detailed photographic record of the conditions of adjacent existing trees (trunks and canopies), buildings, awnings, structures, features, poles, street furniture and the like, adjacent to the works before commencing any site works. This may lead to a simple resolution of possible future disputes.

A fully documented dilapidation report is to be submitted to the Melbourne Water PM. This report and following site inspection are to be approved by the Melbourne Water PM prior to the Contractor undertaking of any site works.

3.3. DOCUMENTATION BY THE CONTRACTOR

Provide the Melbourne Water PM with all requested work method statements, programs and quality assurance manuals.

Documents, which are to be prepared and updated as required by the Contractor, include but are not limited to the following:

- Construction Program
- Environmental Management Plan which will include, noise, dust, vibration, sedimentation and water management controls;
- Access Management Plan which will include pedestrian, bicycle and vehicular traffic management and indicate proposed construction fencing details, extent and duration;
- Safety and Incident Management Plan which will include safe-work methodology, incident management protocols and risk management initiatives proposed by the Contractor;
- Method Statements where noted on the drawings

These and any other documents, which may be required, are to be submitted to the Melbourne Water PM for review.

3.4. SUPPLIERS

The Contractor shall provide a complete list of proposed suppliers for the works within 7 days of the Letter of Acceptance for review by the Melbourne Water PM.

- Within 14 days of the date of letter of acceptance, furnish proof of ordering the required materials, in particular the plants, and advise the Melbourne Water PM immediately if any supply difficulties are encountered.
- No extension of time or cost variation will be granted if any material or product is not available because of late ordering.

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3.5. MATERIAL SAMPLES & FINISHES

Samples, substitutions, product details and technical information for all materials and proprietary items are to be submitted to the Melbourne Water PM, and written approval gained prior to inclusion into the works. Obtain and submit reports on relevant tests by an independent testing authority as per this Specification or as requested by the Melbourne Water PM.

All materials are to be without sharp protrusions or abrasive edges, obtrusive fitting or fixtures. Each colour is to be a uniform finish and there is to be no staining of adjacent materials. All materials are to be corrosion free. The Contractor is to make good any damaged paving, kerbing, walls, services or structure outside the extent of works and any damage to existing building facades or structural.

If not approved, samples are to be rectified or removed and replaced as required by the Melbourne Water PM. If approved, samples may be retained to form a part of the completed works.

Following approval, all remaining works are to match the quality of the sample.

3.6. MATERIAL AND SOIL TESTING & CERTIFICATION

Any testing required must be carried out by an authority registered with the National Association of Testing Authorities (NATA) to perform the specified testing.

The Contractor shall provide a Construction Certification Form 16 for all proposed structural elements certified under Form 15. The Contractor will need to provide Certification Form 15 for all design and construct components (i.e. timber decking).

3.7. RECORD DRAWINGS BY THE CONTRACTOR

Submit record drawings and updates to the main project Revit model showing:

- the “as installed” locations of all drainage lines, other underground services, any existing services uncovered during construction, and any conduits installed for future services;
- All constructed elements undertaken as part of the contracted works, including any rectification works.

Use the same borders, title block and base information as the Contract Drawings.

3.8. SETTING OUT

Prior to commencing each stage of the landscape works, set out alignments of all paths, walls and planting must be inspected and approved by the Melbourne Water PM.

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4. EXECUTION OF WORK

4.1. PROGRAM AND MANAGEMENT PLANS

Provide all work method statements, programs and quality assurance manuals, which are to be prepared and updated as required by the Contractor. Confirm with the Melbourne Water PM the full list of required documents. These may include but are not limited to the following:

- Construction Program which includes supply, lead times, delivery to site and installation of all Landscape Works;
- Environmental Management Plan which will include, noise, dust, vibration, sedimentation and water management controls;
- Access Management Plan which will include pedestrian, bicycle and vehicular traffic management and indicate proposed construction fencing details, extent and duration;
- Safety and Incident Management Plan which will include safe-work methodology, incident management protocols and risk management initiatives proposed by the Contractor;
- Method Statements where requested;
- Dilapidation Survey which includes detailed photographic record of the conditions of adjacent existing trees (trunks and canopies), buildings, awnings, structures, features, poles, street furniture and the like, adjacent to the works before commencing any site works.
- As-Built Drawings which includes Cad and PDF drawings showing all constructed elements, all amendments, locations of all drainage and irrigation lines and other underground services including any existing services uncovered during construction

4.2. SITE PRELIMINARY WORKS

The Contractor shall be responsible for any exploratory works required to ascertain the exact position of existing services and required processes to ensure their protection. All of the Contractor's and Head Contractor's employees are to be made aware of any underground services.

Install anything required to complete the works including but not limited to:

- Temporary Contractor's facilities;
- Environmental protection;
- Protection of work and making good;
- Construction and tree protection zone fencing (e.g.1800mm high chain wire mesh fence panels on concrete "feet". Refer to the Schedule of Landscape Works). Confirm if fencing has already been installed or is within the Head Contractor's scope;
- Public safety measures and provision for vehicular and/or pedestrian traffic control around the site (Confirm the extent required with the Head Contractor).

4.3. DEMOLITION

Confirm with the Head Contractor the extent of the Landscape Contractor's scope. Demolish and remove all items shown on the Demolition Plan(s) to be removed. Retain and protect all items noted to be retained and protected. Traffic signs are to be removed accordance to traffic engineering documentation if applicable. Tree removal is to be in accordance with Tree Protection Plan(s) if applicable.

4.4. EARTH WORKS

General

Cut and fill as required to complete the works. The Contractor is confirm with the Head Contractor that the Civil Contractor will provide finished earthworks levels +/- 150mm from required landscape levels. Refer to the Civil Engineering documents to confirm required finished levels. Remove spoil and excess fill from site.

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The Contractor will be required to achieve smooth even grading to landscape areas. The Contractor shall allow to remove existing excess plant matter, debris, rubble or other loose materials likely to interfere with the new work and consolidate the fill to all resulting excavations. The Contractor is required to carry out final trimming of grades for the entire works. Any areas of discrepancy from the drawings should be brought to the attention of the Melbourne Water PM. Fine softscape grading shall be undertaken with a tolerance of ± 25mm.

Spot levels take precedence over contour lines and ground profile lines.

Under pavement / hardscape, the subgrade is to be compacted to 95% minimum dry density ratio (+ 0mm-25mm of design levels) prior to sub-base placement. Any areas of soft ground are to be excavated & replaced with suitable fill and compacted to prevent subsidence. Ensure all areas are free draining and no ponding of water occurs. Subsoil drains to have minimum fall of 1:100.

Under softscape areas, fill in layers approximately 150 mm thick and compact to 85% of the dry density ratio of the surrounding soil as determined by AS 1289, to minimise slumping. Corners and intersections of planes shall be rounded, gradual and curves generous. When grading from path edges, provide horizontal shoulders, minimum width 500 mm, before any change of level.

Earth Mounds

Earth mounds shall be formed using site soil (bulk earthworks) and planting soil. The profile shall be such that the placement of planting soil and mulch shall bring the mounds to the finished levels shown on the drawings. Slopes to mounds shall be no greater than 1:3 unless otherwise shown on the drawings. Ensure the existing subgrade in locations of proposed mounds is ripped to 150mm deep prior to formation of the mounds.

Rake over all mounds for a smooth profile.

Filling in layers as stated above.

Subgrade

Under all at-grade hardscape (incl. pavement, walls, steps etc) the subgrade is to be compacted to 95% minimum dry density ratio (+0mm, -25mm of design levels) prior to sub-base placement. Any areas of soft ground are to be excavated and replaced with suitable full and compacted to prevent subsidence. Ensure all areas are free draining and no ponding of water occurs.

The subgrade surface is to be left free from rubbish, stores, felled timber and brush, and left smooth and clean, true to the grade and levels shown on the drawings.

4.5. SETTING OUT

Prior to commencing each stage of the landscape works, the alignments of all paths, walls and planting must be inspected and approved by the Melbourne Water PM. This may include key set-out points for pavement patterns.

4.6. INSPECTIONS

The Contractor must request the Melbourne Water PM to attend the required inspections noted in this document and as advised by the Melbourne Water PM. An inspection schedule shall be developed in conjunction with the Melbourne Water PM.

The Melbourne Water PM shall undertake inspections of construction work carried out by the Contractor throughout the period of the Contract. Any delays or extensions to the program or maintenance period, and associated costs arising from lack of notification to the Melbourne Water PM (or Landscape Architect) by the Contractor, are to be borne by the Contractor. The Contractor is to provide at least 48 hours' notice to the Melbourne Water PM and prior to any inspection required. The Melbourne Water PM is to provide at least 36 hours notice to the Landscape Architect prior to any inspection.

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Work is not to proceed without approval from the Melbourne Water PM. Failure to gain approvals may result in rectification of substantial amounts of work at the Contractor's expense.

Minimum required inspections to be included are:

- Prestart meeting
- Material / samples review inspections
- Construction inspections
- Condition of plants after delivery to site and prior to planting
- Planting set out before planting
- Practical Completion Inspection
- Defects Completion inspection
- End of Establishment Maintenance Inspection
- Quality Control inspections
- Handover

The Melbourne Water PM may inspect the works without notice at any time.

Pre-Start Meeting

The landscape pre-start meeting must be conducted prior to work commencing on site, giving at least 5 business days' notice.

The pre-start meeting must be attended by the:

- Melbourne Water PM
- Landscape Contractor
- Landscape Architect
- Council and/or relevant stakeholder representative
- All other relevant parties.

Soil Inspections and Testing

An agronomist shall undertake inspections, sampling and testing of each separate batch of imported soil throughout the period of the Contract. The Melbourne Water PM is to provide at least 48 hours' notice to the Landscape Architect prior to any inspection that an agronomist will be on-site with all reporting due within 48 hours after the inspection.

The Contractor shall be responsible for engaging a qualified Agronomist for inspections and testing.

Structural Inspections During Construction

A Structural Engineer engaged by the Contractor shall undertake inspections of structural construction work carried out by the Contractor throughout the period of the Contract. The Contractor is to provide at least 48 hours-notice to the Melbourne Water PM prior to any inspection that the Structural Engineer will be on-site with all reporting (Structural Certifications) due within 48 hours after the inspection.

Practical Completion Inspection

At Practical Completion the Contractor, the Landscape Architect and the Melbourne Water PM shall carry out a joint inspection to ensure all landscape works have reached Practical Completion.

Items identified requiring attention, during the inspection are to be addressed immediately or as agreed.

Practical Completion marks the start of the Establishment Maintenance and Defects Liability period.

Prior to the Practical Completion Inspection, the Contractor must provide the certificates below to the Melbourne Water PM:

- Certification that all landscaping works have been completed in accordance with the approvals

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- Soil Scientist certifications
- Pavement slip resistance and luminance contrast certifications
- Disabled access certification that the works meet all standards requirements
- Wall, furniture and surface certification of anti-graffiti treatment application
- Maintenance manuals, parts and manufacturer's guarantees for all furniture, pavement, seals, fixtures or other products used

End of Establishment Maintenance Inspection

Three months prior to the agreed end of Establishment Maintenance period the Contractor, the Landscape Architect, the Melbourne Water PM and the Project Manager shall carry out a joint inspection to ensure all landscape works are being maintained to the required standards and as agreed.

Items identified requiring attention, during the inspection are to be addressed prior to the end of the Establishment Maintenance period or as agreed.

Quality Control Inspection

Two weeks prior to the agreed end of the Establishment Maintenance period the Contractor, Landscape Architect and the Melbourne Water PM shall carry out an inspection to ensure all landscape works are ready for the hand-over.

Items identified requiring attention during the inspection are to be addressed immediately.

Handover

At the end of the Establishment Maintenance period the Contractor, the Landscape Architect and the Melbourne Water PM shall carry out a joint inspection to ensure all landscape works are maintained and cleaned to the Client's expectation.

Prior to the handover the Contractor must provide the certificates below to the Melbourne Water PM:

- Arborist certification that all trees and palms have been inspected and any pruning works for public safety and longevity of the tree/s have been completed.
- Proof of completion of all maintenance works which were required within the Establishment Maintenance period.

4.7. INSPECTION SCHEDULE

	Inspections
1	Prestart Meeting (1x inspection)
2	Construction period inspections as per Hold point schedule (4 x inspections)
3	Practical Completion Inspection (1x inspection)
4	Defects Completion Inspection (1x inspection)
5	Council On-Maintenance Inspection (1x inspection)
6	End of Establishment Maintenance Inspection (1x inspection)
7	Client / Council Off Maintenance Handover Inspection (1x inspection)

No sub-staging, separable portions or trade packages have been allowed for during documentation or construction. It is assumed that the landscape set is suitable for trade packages purposes.

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No allowance has been made for Urbis to make changes to the plant schedules or drawings, nor for updated client / approval authority approvals or Contractor liaison arising from lack of early plant procurement by the contractor, leading to unavailability of specified trees or plants. This work will be done on hourly rate basis, payable by the Head Contractor.

No allowance has been made for us to make modifications to our CAD (2D) or Revit (3D) documentation during construction based on site changes, or updates from other consultants for example. It is assumed that any changes will be captured as part of the “As-constructed” scope.

No allowance has been made to attend regular site co-ordination meetings. If these meetings align with the above listed site inspections, the Landscape Architect will assess if attendance is required.

If additional inspections to those listed above are required due to incorrectly installed works, or failure to order materials and plant stock, or to maintain the completed works sufficiently to achieve handover, the costs for additional Landscape Architects inspections are to the responsibility of the Contractor / Head Contractor.

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5. HOLD POINTS

The Contractor **must** request the Melbourne Water PM to attend inspections at the required hold points noted below. It is the Contractor's responsibility to adequately notify the Melbourne Water PM. It is the Melbourne Water PM's responsibility to invite any other parties (e.g. Landscape Architect, Project Manager or Client) to also attend relevant hold point inspections.

Sufficient time needs to be provided to allow for the potential rejection of works and re-work or re-ordering of materials, to not affect the overall project delivery timeframes.

Lead times for ordering of all components, in addition to and allowing for hold point inspections or shop drawing reviews, must be organised by and is the responsibility of the Contractor.

Any failure to co-ordinate these points resulting in delays, or demolition and re-construction of works, extension of program or maintenance periods or the ability for handover certification to be undertaken, are the responsibility of the Contractor.

The Contractor must get the Melbourne Water PM to sign off / approve the successful actioning of each of the hold points generally in the order the hold points are listed.

5.1. HOLD POINT SCHEDULE

	HOLD POINTS	Contractor Sign-off date	Melbourne Water PM Sign-off and date
1	Council / Authority approvals conditions have been received by the Contractor / Head Contractor and they confirm that the Landscape Works Package incorporates these conditions		
2	Tree, palm and plant species ordered within 4 weeks of the award of construction contract. Early approval is critical to avoid construction delays		
3	Compliant advanced tree and palm nursery stock approval obtained from the Melbourne Water PM either through photos supplied or via nursery visit		
4	Tree protection fencing in place		
5	Tree anchors in place for on-structure planting areas		
6	Irrigation conduits in place under or through walls, slabs and pathways		
Samples			
1	Sample panels provided for all pavement types		
2	Sample walls provided for all wall types		
3	Sample, shop drawings or supply information for all furniture types where relevant		
4	Sample, shop drawings or supply information for all balustrade / handrail / fence and gate types where relevant		

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	HOLD POINTS	Contractor Sign-off date	Melbourne Water PM Sign-off and date
Soil Testing			
1	Provide compliant soil test results of each different batch of proposed imported soil type prior to the delivery to the Melbourne Water PM. Early testing and approval is critical to avoid construction delays		
2	Soil delivery dockets showing soil supplier and batch information. Copies of dockets are to be supplied to the Melbourne Water PM for approval and record.		
3	Provide compliant soil test results of installed imported soil test results prior to planting. 1 test per 50m^3 or per batch, whichever is lessor.		
Set out (Hardscape pavement)			
1	Correct set out of hardscape areas		
2	Set out of walls and edges		
Grading			
1	At-grade subsoil drainage installed, tested and working correctly prior to backfilling. Photographs and written confirmation supplied to the Melbourne Water PM.		
2	Pavement area subgrade suitably compacted prior to spreading subbase material. Photographs, test results, and written confirmation supplied to the Melbourne Water PM.		
3	Planter boxes and planting areas clean of all rubbish and construction debris prior to soil placement. Photographs and written confirmation supplied to the Melbourne Water PM		
Planting			
1	Photographs of all compliant, proposed, secured plants to be sent to the Melbourne Water PM for approval		
2	Written confirmation from nurseries that any plants located within shade houses have been relocated to allow for full sun hardening, a minimum of 8 weeks prior to delivery date		
3	Cultivated subgrade to all turf and planting areas to specified depths. Site inspection by the Melbourne Water PM or photographs of all areas of cultivation prior to imported soil or salvaged site soil placement supplied for approval. It is critical that this is recorded and approved.		
4	Site fencing installed to exclude all site traffic from cultivated future turf and planting areas. Photographs provided to the Melbourne Water PM		

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	for approval. Ensure no cultivated areas are recompacted by site traffic. This is critical to ensure long term plant growth success.		
5	Setout and installation of tree holes and or trenches.		
6	Plants / transplants when delivered to site, prior to being unloaded from the truck. Contractor to check for transport related damage, plant form and confirm suitability for installation.		
7	Layout and orientation of trees prior to planting.		

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6. EXISTING TREE PROTECTION

6.1. GENERAL SPECIFICATIONS

The Contractor shall be responsible for protecting all existing vegetation to be retained from malicious or accidental damage including provision of temporary protective fencing where necessary and shall ensure that no live branches are damaged or removed and no roots over 25mm are severed from trees without the express prior permission of the Melbourne Water PM.

Site Induction

All personnel entering the site shall be issued by the Melbourne Water PM with a summary detailing the importance of the trees, the methods of protection in place and the precautions to be taken when working near the trees. This summary outlines the significant penalties for breaches of tree protection requirements.

The Contractor is to ensure all other contractors on or entering the site are aware that works are not permitted within the Tree Protection Zone. The Contractor must ensure any works within this area are controlled and in line with this Specification.

Tree Protection Zone and Pruning

All Tree Protection Areas, root zone protection and canopy pruning works are to be managed in accordance with AS4970 'Protection of trees on development sites' and AS 4373, 'Pruning of amenity trees'.

Work Prohibited within the Tree Protection Zone

Within the Tree Protection Zone, excavation and work other than specified, storage or placement of facilities are prohibited, such as:

- Machine excavation for underground services or footings
- Storage or stockpiling of materials, soil, construction material, rubbish, diesel
- Placement of site sheds / facilities
- Mixing materials (e.g. concrete)
- Cleaning of equipment / tools (e.g. paint brushes, wheel barrows)
- Lighting fires in any situation unless authorised and situated where they will not cause damage to existing trees, shrubs or hedges.
- Prevent drainage run-off from adjacent construction areas as they it is commonly toxic to tree roots
- Washing out of materials
- Altering (raising or lowering) of existing ground levels other than specified

Work within the Tree Protection and Canopy Zone

All work within the Tree Protection and Canopy Zone of existing trees is to be done with extreme care. No damage shall be caused to the canopy of the existing trees. Where necessary tie back branches.

Allow for hand-working only within this zone.

If hand-working is not possible, use mat protection on the ground for load spreading. Within the Tree Protection Zone no compaction is allowed. Use systems in accordance with AS4970 'Protection of trees on development sites'. Propose a system to the Melbourne Water PM and obtain approval prior to any work.

Prior to any excavation works for footings, piling etc. 600mm deep pot holing using vacuum excavation needs to be undertaken for each location to look for structural roots. An arborist is to review the excavation for potential damage and submit a report for approval and instruction to the Melbourne Water PM. After obtaining the arborist report the Contractor shall submit an action plan for the completion of the construction works.

No works to occur are within the Structural Root Zone to ensure structural support of tree is maintained. Typically this is within the drip line of the tree canopy, but is dependant on the tree species. Any tree which is

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over 3m high and requiring adjacent works within the likely Structural Root Zone will require written advice from a certified Arborist.

Two weeks prior to commencing pot holding works notify the Melbourne Water PM. Submit photographic evidence for each hole identified with a numbering system and located on a plan.

Notice
The Contractor is to give at least 48 hrs notice to the Melbourne Water PM to be present on site at all times when decisions or actions that affect the trees are taken.

Adjacent work
Excavation or trenching immediately adjoining the Tree Protection Zone is to be temporarily stabilised until the permanent restraint (e.g. new retaining wall or trench backfilled) is complete to prevent collapse or erosion within the Tree Protection Zone.

6.2. TREE PROTECTION TYPES

TP01: Tree Protection Type – Tree Protection Zone

Weed removal - Poison weeds with a non-residual Glyphosate based herbicide or Roundup Bioactive or similar. Large weeds and unwanted shrubs / groundcovers are to be removed by hand. Maintain the area weed free for the duration of the works.
Mulch - Place 75mm depth of 1" (medium') Hoop Pine bark or wood chip mulch made from other trees removed from site or 15mm grade aged pine bark fines organic mulch (conforming to AS 4454). To prevent fungal problems do not place mulch against the base of tree trunks.
Watering - Hand water every 4 days (unless there has been more than 30mm of rainfall since the last watering) using "A" class recycled water from a water truck or install a temporary irrigation system. The irrigation system is to be an above ground (under the mulch) fully automatic drip irrigation system suitable to operate for the duration of the works until the permanent irrigation system is installed. It is to include a reliable battery powered controller, poly pipe with drippers to maintain the soil at field capacity and, if connected to mains water, a backflow prevention device to meet authority approvals. Irrigation must comply with applicable water restrictions. Water enough to keep the Tree Protection Zone soil at field capacity. Refer to the drawings for the irrigation connection point(s).
Access - Access within the Tree Protection Zone is only permitted with the approval of the Melbourne Water PM

TP02: Tree Protection Type – Tree Protection Zone Fencing

Material - Prefabricated chain wire mesh fence panels. (Star pickets, bunting or danger tape are not acceptable.)
Size - 1800mm high x 2400mm long (typical) panels
Screening - Fix shade cloth to the full height of the outside (i.e. away from the tree) of the fence
Sediment Control - Place hay bales along the base of the fence on the uphill side to the tree(s) being protected to prevent erosion and silt movement into the fenced area
Footings - Above ground precast concrete "feet"
Penalties - Penalties apply for breaching this Tree Protection Zone
Duration - Install the fence prior to demolition works starting and leave in place until the commencement of the landscape works
Extents – If not shown on drawings then the Tree Protection Zone layout/ dimensions must be as per AS4970 -

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TP03: Tree Protection Type – Canopy Pruning

Task - Prune dead branches for safety. Quantity and location of pruning to be co-ordinated with the Melbourne Water PM for approval.
Deadwood - Remove deadwood greater than or equal to 20mm diameter.
Quality - Pruning must be done by a qualified Tree Surgeon/Arborist with a minimum qualification of a Certificate in Arboriculture National Arborist Association of Australia membership in accordance with AS 4373 - Pruning of amenity trees

TP04: Tree Protection Type - Minor Groundworks & Weed Removal

Extent - Around retained trees as noted on the drawing
Weeding - Poison all weed species using a non-residual glyphosate based herbicide
Rubbish removal - Remove all rubbish
Mulch depth & type - Supply and spread >5mm deep, 1" ("Medium") Hoop Pine Bark over the entire area
Work method - To prevent tree root damage all work is to be done by hand. No machinery is allowed.

6.3. ROOT PROTECTION TYPES

RP01: Root Protection Type – Root Barrier

Material / model - Purpose made HDPE (High Density PolyEthylene) root barrier, roll form, 750 gsm, black, dimpled surface (to reduce lifting)
Manufacturer / supplier - Treemax (Ph: 07 3823 5313) or Nylex or approved equivalent
Material dimensions – 1500mm deep or similarly approved by Melbourne Water PM, 0.7 - 0.75mm thick
Joins - Minimise joins. Connect separate pieces with 20mm wide double sided Butyl tape from Treemax (Ph: 07 3823 5313) to ensure no root penetration through the root barrier joins
Levels - Top edge of barrier is to finish flush with the adjacent top of path, or kerb. Seal the top edge of the barrier to the side of the pavement using 20mm wide double-sided Butyl Tape to prevent water & root access
Installation – Use a "ditch witch" or water knife to create a narrow trench (approx. 75-150mm wide) for the barrier. Hand trim any roots and cut using a sharp saw. Where applicable, the dimpled surface is to be closest to the tree. Place the barrier directly against the adjacent hard edge (ie path, kerb, wall). Backfill the trench on the "tree side" of the trench with site soil. Refer to City of Port Phillip standard details CPP3412
Sample - If a product different to that specified above is proposed, a sample piece to be provided for approval by the Melbourne Water PM prior to installation.

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RP02: Root Protection Type – Root Pruning

Root pruning is only to occur outside the structural root zone of the tree.

Overview:

Root pruning is when tree roots are cleanly severed from the tree in order to prevent damage which would be caused during adjacent excavation. A trench of soil along the root pruning alignment is removed by hand or utilizing an air or water knife so the roots can be seen before pruning. This is called making a “root pruning trench”. Once exposed, the roots are cleanly cut, then soil is commonly put back into the root pruning trench to encourage root regrowth in that area prior to the proposed adjacent excavation. This system prevents future problems with the tree, during adjacent excavation, by minimizing damage to its roots.

Before digging:

A certified Arborist must be onsite to perform or supervise the root pruning. If major roots (e.g. Over 50mm diameter) will be pruned, or a large percentage (e.g. over 30%) of the roots will be pruned, the tree may require other types of care. For mature trees, no more than 30% of roots may be pruned.

Digging Process :

The root pruning trench should be opened up in a way that exposes the roots while leaving them intact. Use hand tools, a water knife or an air knife. Do NOT use an excavator, as this will pull on the roots and possibly damage the trunk. If a root larger than 50mm is exposed, leave this root intact and contact the Arborist. Once the roots are exposed, use a SHARP tool to cleanly cut all roots which are between 25-50mm diameter, to the depth of the proposed disturbance. Appropriate tools include sharp shears, handsaws, a root pruner, a reciprocating saw or any other sharp tool which leaves a clean cut. Do not use a chainsaw or chain trencher to make the final cuts.

Post Pruning:

Tree roots must be kept moist after pruning. If cut roots ends will be left exposed for more than 8 hours, cover the cut face of retained roots with moist hessian. Fill the hole with high quality site soil, apply root inducing hormone to the trench and mulch the area with 1" (medium') Hoop Pine Bark to a depth of 75mm, and water

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7. TREE / PALM TRANSPLANTING

7.1. GENERAL SPECIFICATIONS

Site Induction

All personnel entering the site shall be issued with a summary detailing the importance of the trees, the methods of protection in place and the precautions to be taken when working near the trees. This summary outlines the significant penalties for breaches of tree protection requirements.

Relevant Standards

All work must be done in strict accordance with AS 4970 'Protection of trees on development sites'

Transplanting within Construction Site

If trees or palms are to be transplanted from one location to another within the nominated construction site, it is the Contractor's responsibility to ensure that the transplant occurs once only (i.e. not double handling), to the final location. Tree protection methods are to be undertaken before and after transplant occurs. If due to construction staging requirements, the transplant needs to be stored in an alternate location, on or off site, it is the Contractor's responsibility to undertake all requirements to ensure sustained and ongoing plant re-establishment and growth throughout the construction and maintenance periods.

If sufficient damage (defined by the Melbourne Water PM) or failure of transplant occurs due to Contractor / Head Contractor negligence, replacement stock of the same species and size will be provided by the Contractor / Head Contractor at their cost.

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7.2. TRANSPLANTING OF TREES AND PALMS

Tree / Palm Transplanting – Transplanting works
Methodology - Prior to undertaking transplanting works on-site, seek and gain approval from the Melbourne Water PM of your proposed Transplanting Methodology and Procedures. Clearly show and document any temporary transplant storage locations and maintenance methodology. Any temporary transplant storage location is to comply with the below protection, fencing, irrigation and maintenance regimes. Any temporary transplant location is to be outside of the site construction zones to ensure no damage or construction impact occurs to the transplant. **Transport** - Move the tree or palm in a covered truck to avoid wind damage and shock. Carefully tie in the branches and fronds to avoid damage. Cover and secure the root ball surface during transport to prevent soil and moisture loss. Ensure the root ball and hessian wrapping is well watered every 12 hours if on the truck for more than 12 hours. **Placement** - Prior to excavating, mark north on the tree or palm and reposition to match original orientation at the transplanted location. Plant the rootball level and typically in the same orientation as it was growing previously. The root ball base must sit directly on the subgrade to eliminate settling (i.e. don't place fill under it except potentially a shallow layer of compacted sand for leveling). The root ball surface must be flush with or up to 100mm above adjacent proposed levels. Gain approval of the tree orientation and placement from the Melbourne Water PM prior to unhooking it from the crane. **Guying** - Ex Ground and transplanted anchoring system: Use Platipus Earth Anchoring Rootball Fixing System – Plat-Mat 'RF2P' with 4 legs (or equivalent approved). All steel components to be 316 stainless streel. Confirm with manufacturer if this system is acceptable for this particular situation. Installed to manufacturer's specification. **Interim Maintenance** - Allow for the root ball to be temporarily watered ensuring it and its surrounds remain at field capacity from the time of transplanting. All responsibility for the successful establishment and growth of transplants is to be borne by the Contractor. **Establishment Maintenance** – Refer to the Establishment Maintenance section of this specification

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8. TREE REMOVAL

8.1. GENERAL SPECIFICATION

Refer to the Tree Protection Plan(s) for numbers and locations of trees to be removed. Confirm with the Head Contractor that this item has not been already included in the Demolition Contractor's scope.

8.2. TREE REMOVAL WORKS

Tree Removal - Removal Works
Height / Depth - Remove trees to 300mm (max.) above ground. Stump Grinding - Remove / grind all stumps to 300mm below ground level. Do not fill the hole to allow for planting soil placement later. Clean-up and remove debris. Wood Chip / Mulch - Mulch/chip trees on site to less than 75mm size pieces and spread as mulch (75mm deep) under other site trees as directed by the Melbourne Water PM, remove from site or place in the designated on-site mulch stockpile location. Remove from site and dispose of any diseased plant material, weed species or material harmful to plant growth if used as mulch. No logs or debris are to be left on site (unless otherwise noted).

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9. DRAINAGE

9.1. GENERAL SPECIFICATION

All drainage grates are to be lockable.

All bends or curves of drainage channels to be built with a mitre cut at the end of each channel.

All grates to be heel safe with a max. slot width of 7mm.

All grates to be compliant with the slip resistant requirements of the National Construction Code (NCC) and Australian Standards AS/NZS 4586 2013, AS HB 198 2014 as specifies for the adjacent pavement.

All grates to meet the wheelchair and walking cane safety requirements as per AS 1428.2

All grates to be flush with adjacent finishes.

All sizes and calculations must be approved by the Hydraulic Engineer.

Load classifications (e.g. Class A, B, C and D) are specified as per AS 3996.

Drainage

All at-grade garden beds are to have a subsoil drainage line located at the garden bed edge on the lower side of the slope at the base of the imported soil profile. Subsoil drainage is to be connected to a stormwater outlet.

All at-grade turf areas are to have a subsoil drainage line located at the edge of the turf area on the lower side of the slope at the base of the imported soil profile adjacent to pavement areas or walls to ensure no water built-up. Connect to stormwater outlet. Refer to the Civil Engineers' documentation for stormwater connection points and details.

9.2. DRAINAGE TYPES - DRAINS

SSD: Drainage Type - Subsoil Drainage Line (i.e. Ag Line)

Product — 100mm perforated flexible PVC pipe without filter sock. Vinidex 'Draincoil' or approved equivalent
Trench width – 300mm
Trench depth – Varies (Refer to Sections for depths), typically at the base of the imported soil depth, falling at min. 1:100. All subsoil drainage lines are to be connected and discharged to the stormwater system as per Civil Engineers' documentation
Trench backfill / drainage material - Drainage aggregate, 5-7mm blue metal screenings
Installation - Connect to the drainage line stub provided by the Civil Contractor or directly into the immediate adjacent stormwater pit where applicable. This connection point determines the lowest point of the subsoil drain. Where connecting directly into the stormwater pit seal around the connection point to prevent aggregate or soil from entering the pit.

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10. EDGES

10.1. GENERAL SPECIFICATIONS

Samples

Install a minimum 2.5m long typical portion of each different edge type showing materials, colour, finish and joints for approval by the Superindendent. If acceptable, this sample should be retained as a quality benchmark and shall form part of the finished works.

10.2. EDGE TYPES

ED01: Edge Type – Bluestones Edge

Material – Bluestone
Surface Finish – Sawn Bluestone
Colour – Natural
Dimensions – 200mm wide x 995mm long x 40mm thick. Confirm sizing with City of Port Phillip prior to order and installation.
Sub-base depth/material

- Bedding – 25mm min bedding mortar & slurry mixes for unit paving as approved by Council.
- *Base – 25MPa 100mm thick concrete base. Refer City of Port Phillip detail* CPP1304 for reinforcements.
- Sub-base – 50mm layer Class 2 crushed rock.
- *Note – Refer City of Port Phillip Standard engineering details for footings instillation*

Joints – Place 200mm zipped Abelflex jointing material or equivalent approved by Council to fit snugly between concrete slabs. Seal top of joint with 'THC-901' by Tremo (colour grey) or equivalent approved by Council
Levels—The top of the edge must be flush with the adjacent footpath. A maximum of 25 mm set down to the adjacent garden bed.
Installation – Prior to installation, Refer to City of Port Phillip Standard engineering details for footings and installation. Refer CPP1304

ED02: Edge Type– Bluestones Edge (Raised)

Material – 150mm wide Bluestone
Surface Finish - Dressed
Colour – Natural
Dimensions – 150mm wide x Height Varies (150 mm-300 mm). refer to landscape documentation for height
Sub-base depth/material – 75mm min 25MPa Concrete

- Bedding – 75mm compacted Class 2 FCR.
- *Note – Refer City of Port Phillip Standard engineering details for footings instillation*

Joints – All grouted joints are to be min 10mm and Max 30mm wide.

- Grout to be made up of the following:
  - 16% Cement
  - 16% Stonedust
  - 67% Blushed Washed Sand
  - 1% Lime with Bayer synthetic colour oxide added at a rate of 40kg/m3 thoroughly mixed through the grout (Charcoal Mix)

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Levels - Top of edge to be flush with adjacent garden bed/turfed area. The base of the edge is to be 150 – 300mm above the adjacent footpath. Refer landscape documentation for height
Installation – Prior to instillation Refer City of Port Phillip Standard engineering details for footings and instillation

ED03: Edge Type– Dressed Bluestones Curb (150mm)

Material – 150mm wide Bluestone
Surface Finish - Dressed
Colour – Natural
Dimensions – 150mm wide. Refer City of Port Phillip Standard details, CPP1203
Levels - Top surface is to be 50mm above concrete bedding. Refer City of Port Phillip Standard details, CPP1203
Sub-base depth/material – 75mm min 25MPa Concrete

- **Bedding –** 75mm compacted Class 2 FCR.

Note – Refer City of Port Phillip Standard details, CPP1203
Joints – All grouted joints are to be min 10mm and Max 30mm wide.

- Grout to be made up of the following:
  - 16% Cement
  - 16% Stonedust
  - 67% Blushed Washed Sand
  - 1% Lime with Bayer synthetic colour oxide added at a rate of 40kg/m3 thoroughly mixed through the grout (Charcoal Mix)

Levels - Top surface is to be 50mm above concrete bedding. Refer City of Port Phillip Standard details, CPP1203
Installation – Prior to instillation Refer City of Port Phillip Standard details, CPP1203

ED04: Edge Type – Steel Edge

Material – 100 x 50 x 5mm Grade 300 mild steel joining plate (non galvanised)
Dimensions - 100mm deep x 5mm thick, Flat plate
Levels - Top surface is to finish flush with the adjacent turf and or garden bed
Installation – steel joining plate (non galvanised) fixed to edging with M6 30mm long mild steel bolts with nuts. – Prior to instillation Refer City of Port Phillip Standard details, CPP3201

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11. PAVEMENT

11.1. GENERAL SPECIFICATIONS

Each different pavement type is to have a uniform finish and colour. The pavement is to be constructed true to the documented line and levels without local irregularities.

All pavers, sealants, bedding, adhesives and grout must be installed as per the manufacturer's specification.

Samples

Install a minimum 10m^2 sample area of each different pavement type showing materials, surface pattern, colour, finish and joints for approval by the Melbourne Water PM. If acceptable, this sample should be retained as a quality benchmark and shall form part of the finished works.

Drainage

Ensure positive drainage to the kerb and drainage inlet grates to prevent ponding. Grout for direct stick pavements are to be water repellent. Ensure there is less than 5mm deep water ponding 15 minutes after rain has stopped,

Falls are to be achieved in the base slab or topping slab not via variations in the depth of the mortar bed, adhesive or sand bed.

Ensure a threshold grade change or ramp is maintained at every door to allow for minimum Australian Standard and National Construction Code (NCC) compliant level difference between lower external levels and higher internal floor levels are achieved.

Ensure positive drainage to kerbs and drainage inlet grates to prevent ponding.

Slip Resistance

Ensure pavement finishes including sealers, tactiles and directional pavers are compliant with the slip resistance requirements of the National Construction Code (NCC) and Australian Standards AS/NZS 4586 2013, AS HB 198 2014.

Ramp surfaces must have a slip resistance classification of minimum R11 rating for the oil-wet ramp test as per Table 5 of AS / NZS 4586-2013.

Provide complying slip resistance test results for all pavement finishes and types as per the table below and specific pavement type specification to the Melbourne Water PM.

Location	Wet pendulum test	Oil-wet inclining platform test / Wet-Barefoot test
External pavements, Ramps steeper than 1:20 gradient but not steeper than 1:14	P4	R11
Ramps steeper than 1:14 gradient but not steeper than 1:8	P5	R12
Stairs treads and landings	P4	R11
Swimming pool surrounds and communal shower rooms	P4	B
Swimming pool ramps and stairs leading into water	P5	C

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Luminescence Contrast Testing
Contrast between stair tread paver and stair nosing to be tested and compliant with AS1428. Contrast between tactile indicators and adjacent pavement to be tested and compliant with AS1428. Provide the compliant test results to the Melbourne Water PM.

Efflorescence
Take all necessary measures to ensure no efflorescence occurs. Select base materials and include admixtures to prevent the occurrence of efflorescence.

Structural Requirements
Refer to the Structural Engineer's Specifications for slab thicknesses, cover to reinforcing, reinforcing, concrete MPa and base course requirements. Structural Engineer's Specifications take precedence over the requirements noted in this Specification. The structural slab is to be fully cured prior to pavement installation.

Levels
Ensure there is no more than 2mm different in height between adjoining pavement segments, other adjoining pavements, top of kerbs or pit covers (unless specified otherwise).

Spot levels take precedence over contour lines.

Tactile Indicators
Install tactile indicators in accordance with AS1428. Compliant luminaire contrast levels between the pavement and tactiles are to be confirmed by the Contractor prior to ordering and installation.

Construction Joints
All joints are to be laid out as indicated on the drawing(s). If the location and type of construction joints are not shown on the drawings, submit proposed location and detail of construction joints to the Melbourne Water PM for approval prior to the start of formwork placement. Periods of stoppage in concrete pouring of 3/4 hour or more are deemed to require construction joints.

Ensure that joint widths between pavers at dowelled construction joints are equal to the underlying concrete pavement joint widths and exactly aligned with the base concrete joint location. The concrete base slab should not be designed solely as a jointed reinforced concrete pavement (JRCP) but must be designed and detailed to avoid differential strains between the pavers and the concrete slab.

Expansion Joints
All visible expansion joints are to be 10mm wide zipped polyethylene foam (e.g. Abelflex) sealed with an approved coloured sealant (e.g. Sikaflex or equivalent). Colour to match the lightest coloured adjacent pavement. Expansion joints in structural slab underneath (both suspended and at-grade slab) are to be carried through to the topping and upper pavement surface in the exact same locations and widths.

Control Joints
To be 20mm deep cut saws. Make the joint straight and true, and free from blemishes impermissible for its surface finish class.

Natural Stone Pavement Consistency
To ensure the consistency of all stone used across the site, including other consultant works, the natural stone shall be supplied from the same section of the same quarry. Confirm with the Melbourne Water PM the source and colour of all other site examples of stone. Source samples of stones to be installed by others to ensure matching of works are achieved.

Solar Reflectance Index (SRI)
Pavements must achieve an SRI of >39 to achieve Green Star Compliance for Heat Island Effect Reduction. Provide test result or data sheets detailing the compliant SRI rating for any pavement types.

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11.2. CONCRETE WORKS

General

This section applies to insitu-concrete and pre-cast concrete elements.

All components of concrete works such as concrete mix, water-cement ratio, concrete strength, pigment quantities, formwork types, release agent, sand type and sealer shall be as per the Structural and Civil Engineer's specification and be kept consistent throughout the project to avoid differences between the elements.

Regulatory Standards & Industry Association Reference Publications

The following relevant Industry Association reference publications and guide standards should be use for the relevant work:

- CCAA Cement Concrete & Aggregates Australia www.concrete.net.au
- CCAA Guides series, including the following as applicable:
- CCAA T57 Guide to Off-Form Concrete Finishes
- CCAA T59 Guide to Concrete Flatwork Finishes
- CCAA Data Sheets series, including the following as applicable:
- CCAA Data Sheet – Avoiding Surface Imperfections in Concrete
- CCAA Data Sheet – Removing Stains from Concrete
- CCAA Data Sheet – Cleaning Concrete
- NPCAA - Precast Concrete Handbook
- AS 3610 – Formwork for Concrete
- AS 3600 – Concrete Structures
- AS 1379 – Specification and Supply of Concrete
- Local Authorities Applicable Regulations
- Building Code of Australia including Standards referenced in the NCC/BCA.

Shop Drawings

Formwork drawings and documentation are to be prepared by the nominated Sub-contractor that show the arrangement of panels, joints, bolts, tie-rod holes and similar visible elements in the formed surface, form linings, form coatings, and where applicable the reuse of formwork and shall be submitted for approval. Approval for the formwork pattern is to be gained from the Melbourne Water PM prior to the commencement of works.

Ensure tie-rod hole locations are uniform. Use junction details that avoid poor weathering performance.

Test Panels

Cast the panels using the formwork, concrete, colour, compaction equipment, form release agents, curing and formwork removal methods, which are to be used in the final work. Supply sample panels to AS 3610 for the application specified. Test panels to be approved in writing by the Melbourne Water PM before starting any works.

If test panels are approved they are to serve as a benchmark for all future works. Protect test panel to make sure no adjacent material stains it. The approved test panel may be integrated into the final work.

Inspections

During construction a number of holding points shall be established to allow for inspection and approval before progressing to the next stage of construction. Any surface which fails to match the agreed sample for colour, aggregate distribution, and tonal range shall be repaired / replaced to the Melbourne Water PM's approval. Minor imperfections shall be repaired by filling with a cement based coloured slurry and reground to ensure surface appearance is consistent. The below show the minimum required inspections:

- Before starting works for approval of test panels

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- Before placing of concrete to trenches and formwork
- Before applying coatings, chemical stains or sealers
- At completion

Any works which have any of the following defects must be completely replaced prior to the Date of Practical Completion:

- Surface stains
- Surface crazing or cracking.
- Surfaces that have a deviation from a 3-metre straightedge greater than 3mm.
- Off-form surfaces that show any honeycombing or bubbles to the surface.
- Any concrete that fails to achieve required strength.
- Patching of defects in concrete will not be permitted.

Formwork

Design and construct formwork so that the concrete, when cast in the forms will have the dimensions, shape, profile, location, and surface finish as specified. Make provision for dimensional changes, deflections, and cambers resulting from the application of applied loads, temperature changes and concrete shrinkage and creep. Tolerances of the concrete when stripped will be in accordance with the appropriate clause of AS 3610.

Use formwork compliant with AS 3610 and its minimum acceptable quality of surfaces for various classes of surface finish.

Strip formwork in accordance with the recommendations of AS 3610, Table: "Recommended Minimum Stripping Times". If construction loads greater than the live load shown on the engineer's drawings are placed on the structure, fix emergency shoring to the satisfaction of the Melbourne Water PM.

If formwork fails to meet the requirements of this specification, it may be rejected along with any concrete which has been cast in it. In that case, remove the rejected concrete, form construction joints, reconstruct the formwork, and recast the concrete.

Choose formwork materials to meet the requirements of surface finish, tolerances, load capacity, absorbency, watertightness and stability. Use the same formwork type throughout the entire works to avoid differences in water-cement ratio. Confirm suitability of formwork for the required surface finish quality with the manufacturer. Consider new formwork panels as each will change water absorbency with re-use or use the same 'old' formwork panels next to each other to achieve consistency.

Inspect works prior to placing reinforcement to identify form panels which needs replacement in order to achieve the quality of finish specified. If new boards need to be primed, consider different results of variable absorbency of boards.

Formwork shall be constructed with tight joints and no gaps at corners or edges. Ensure that the joints remain tight during placement.

Use the same form release agent throughout the project.

Where not detailed, form 5mm fillets, on the surface of all corners and angles.

Concrete Testing

Perform concrete tests in accordance with AS 1012 (all parts) 'Methods of Testing Concrete'. The methods and frequency of sampling and the identification and testing of cylinders are to be in accordance with project control testing AS 3600 & AS 1379 'Specification and Supply of Concrete'.

Tests to be carried out shall be as follows:

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- 28 day compressive strength tests;
- On site slump tests (on the first batch of concrete)

Concrete Supply

Ingredients, concrete mix, water-cement ratio, concrete strength and pigment quantities shall be kept consistent throughout the project. Ensure concrete is thoroughly mixed.

Immediately before placing concrete in excavations, ensure that the excavation is free from water and fallen materials and that the sides of excavations are such that no material will fall into freshly placed concrete.

Convey concrete from the mixer to the place of final position without delay and by means that will prevent segregation and loss of materials.

Admixtures are to be approved by the Melbourne Water PM in writing prior to purchasing. If admixtures are approved, comply with AS 3600. Place concrete in compliance with AS 3600.

Concrete Placement

Secure reinforcement in place, remove surplus end of tie-wire, surplus nails and other extraneous metal objects in contact with the forms and make sure that expansion joint material, anchors, and other embedded items are in position. Fix cores and embedded items to prevent movement during concrete placing. In locating embedded items, do not cut or displace reinforcement, or cut hardened concrete.

For adjoining elements to be fixed to or supported on the concrete, provide for the required fixings. Where applicable, provide for temporary support of the adjoining elements during construction of the concrete works.

Formwork is to be cleaned of all debris immediately before placing of concrete. Remove water ponding to prevent differences in water-cement ratio between bottom and top of the slab.

The concrete shall be placed at a continuous rate and consistency for each section of the work. In walls, the placing rate shall be such that the lateral pressure assumed in the formwork design is not exceeded. The settlement in each layer shall be substantially complete before the next layer is placed. The Contractor shall take care to avoid the formation of cold joints.

Do not insert fixings using explosive tools.

Precast elements shall be a minimum grade of S32 (to AS 1379) placed by an appropriate means. The concrete shall be delivered to site with a slump of 80 - 100mm, or as recommended by the Structural or Civil Engineer.

Tolerances on Placement

Maximum deviation from correct positions:

- Embedded items generally: ± 10 mm.
- Fasteners, including anchor bolts: ± 3 mm.
- Anchor bolt groups for structural steel: To AS 4100.

Compact concrete by mechanical vibration to the maximum practicable density, free of air or stone pockets. Concrete not compacted will be rejected.

Inappropriate use of vibrators (e.g. by "travelling" concrete by use of vibrators) is not permitted and will cause immediate rejection of the concrete component.

Hot Weather Placing

When the surrounding outdoor shade temperature exceeds 38°C, do not place concrete. To prevent premature stiffening of the fresh mix and reduce water absorption and evaporation losses, utilise protection

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methods to prevent the rapid loss and evaporation of free mixing water from the concrete. Be sure to mix, transport, place and compact the concrete as rapidly as possible.

Before and during placing maintain the formwork and reinforcement at 32°C using protection, cold water spraying, or other effective means. When placed in the forms, the temperature of the concrete must not exceed 35˚C for normal concrete in footings, beams, columns, walls and slabs and 27°C for concrete in large mass concrete sections, or concrete of strength 40MPa or greater, in sections exceeding 600 mm in thickness.

Select one or more of the following methods of maintaining the specified temperature of the placed concrete:

- Use chilled mixing water.
- Spray the coarse aggregate using cold water.
- Cover the container in which the concrete is transported to the forms.
- Cool the concrete using liquid nitrogen injection before placing.
- A combination of these methods.

Curing and Protecting Concrete

Take responsibility for the curing and protection of the concrete. For example: protect freshly cast concrete from premature drying and excessively hot or cold temperatures. Erect windbreaks to shield the concrete surface during and after placing. Maintain the concrete at a reasonably constant temperature with minimum moisture loss for the curing period, compliant with AS 3600.

Cure as soon as the surface of the concrete has hardened sufficiently to prevent damage but in no case later than two hours after the finishing operation has been completed.

Cure by the following means:

- The use of waterproof paper, or
- The use of an approved polyethylene building film, or
- The use of other approved moisture retaining covering.

If a method other than polyethylene film is adopted, secure the covering material against the concrete for the full length of edges and laps and at frequent intervals between so that no air circulation at the concrete surfaces occurs.

Continue final curing for seven days for normal Portland cement concrete. For high early strength concrete, continue the final curing for three days. Prevent rapid drying out at the end of the curing period. Keep wet any steel forms heated by the sun and wood forms in contact with the concrete during the final curing period.

When the mean temperature of the air during curing is less than 5°C, maintain the temperature of the concrete between 10°C and 20°C for the required curing period.

When the mean temperature of the air is in excess of 30°C during curing and moist curing is not employed, cover the surface with an approved heat reflecting plastic membrane. Apply this treatment for the whole of the curing period.

Take special care with curing off-form concrete to avoid differences in colour. Curing compounds shall comply with AS 3799. Produce uniform colour on adjacent surfaces.

Remove debris and form work from each area after stripping concrete as work sections are completed. Leave each area clean to the satisfaction of the Melbourne Water PM.

Quality of Surface Finish

Set out concrete formwork to give a regular arrangement of panels, joints, bolt holes and similar visible elements in the formed surface. The permissible deviations for the surface finish class should be as per AS3610. For the finish class refer to the Schedule of Landscape Works as the class finish may vary

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according to the concrete's specific function and location. Surface finish of visible concrete to be Class 2 unless specified otherwise.

Acceptable minimum quality of surface (from AS 3610)

Quality of surface finish	Class 1		Class 2		Class 3		Class 4		Class 5	
Blowholes	Refer to photographs in AS 3610 for examples						N/A		N/A	
Form face deflection	Lesser of 2mm or span/360		Lesser of 3mm or span/270		Greater of 3mm or span/270		Greater of 3mm or span/270		N/A	
	Maximum tolerances for straight elements with smooth surface, in mm									
Percentage of readings	95	100	90	100	80	100	70	100	70	100
Face step										
Within the element	1	2	2	3	3	5	5	8	-	-
At in situ construction joint	2	3	2	3	3	5	5	8		
Surface undulations**										
L = 300 (a-b) ≤	1	2	2	4	3	4	5	7	-	-
L = 1500 (a-b) ≤	2	4	3	6	5	7	8	10		
Flatness										
1.25 grid	4	5	6	7	7	10	-	-	-	-
At 5m over 10m	5	7	7	10	10	15				
(not applicable for precast concrete)										
Out of plumb										
Height < 3m	3	5	4	6	5	7	-	-	-	-
3 < height < 8m	6	8	8	10	10	12				
(not applicable for precast concrete)										

Finished Concrete Elements

Tie-rod holes are to be filled unless otherwise stated. Holes to be filled with material matching the surface colour and finish, as approved on the test panel prior to application.

Use penetrating sealer on all concrete works.

Exposed Aggregate Concrete

Expose the aggregate of the freshly placed concrete surface until the matrix aggregate is in uniform relief. Do not use acid, chemicals or other solutions, i.e. sugar. The Contractor is to provide a method statement for approval by the Melbourne Water PM, providing methodology for exposing the aggregate. Under no circumstances shall the exposing / washing technique or method affect adjacent works. Any adjacent works affected shall be cleaned up, repaired or replaced at the Contractor's expense.

Coloured Concrete

Where coloured concrete is specified the colour is to be full depth colour finish i.e. pigment evenly mixed throughout the mass of concrete. Refer to the Schedule of Landscape Works for concrete pigment and colour. All surfaces shall be finished uniformly. Refer to the manufacturer's recommendations for surface finishing & curing.

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11.3. PAVEMENT PROFILES – IN-SITU CONCRETE

PA01A: Pavement Profile – Concrete, Pedestrian – At-Grade

Material – In-situ concrete. Indicatively 100mm thickness (Refer to Structural Engineer's documentation). Indicative minimum grade N32 (Refer to Structural Engineer's documentation).
Colour – Grey cement
Surface finish – Light broomed. Apply finish after joints have been tooled
Slip rating – Wet Pendulum Class rating 'P4' and slip resistant R11. All areas steeper than 1:14 to be Wet Pendulum Class rating 'P5' and slip resistant R12.
Sealer – Penetrating, non-yellowing protective sealer for concrete floors. CCS Streetscape or approved equivalent.
Sub-base depth / material – As per Structural Engineer's documentation. Remove any soft areas that could lead to settlement and cracking and replace with suitable compacted material capable of supporting the base material
Reinforcing – *Refer City of Port Phillip detail* CPP1302 for reinforcements
Expansion joints - Approved 12mm wide bituminous jointing strip or approved proprietary expansion joint for full width & depth of path between pours. Max spacing 15m. *Refer City of Port Phillip detail* CPP1302
Control joints - Tooled control joints at 2m intervals unless shown otherwise on the drawings

PA01B: Pavement Profile – Concrete, Vehicle – At-Grade

Material – In-situ concrete. Indicatively 200mm thickness (Refer to Structural Engineer's documentation). Indicative minimum grade N32 (Refer to Structural Engineer's documentation).
Colour – Grey cement
Surface finish – Light broomed. Apply finish after joints have been tooled
Slip rating – Wet Pendulum Class rating 'P4' and slip resistant R11. All areas steeper than 1:14 to be Wet Pendulum Class rating 'P5' and slip resistant R12.
Sub-base depth / material – As per Structural Engineer's documentation. Remove any soft areas that could lead to settlement and cracking and replace with suitable compacted material capable of supporting the base material
Reinforcing – *Refer City of Port Phillip detail* CPP1302 for reinforcements
Expansion joints - Maximum contraction joint spacing: 4.25m or no less than 20 times the slab thickness. *Refer City of Port Phillip detail* CPP1302

11.4. PAVEMENT PROFILES - PAVERS

PA02: Pavement Profile – Existing feature Mosaic tiles – Pedestrian, On-Structure

Material – Porcelain tiles (existing to be removed and reinstalled)
Dimensions – Approximately 100mm x 100mm x 6mm. Pattern 500m(L) x 700mm(W) x 6mm
Slip rating – The existing tile is to be reviewed. If slip rating not meet, Install clear anti slip[treatment to tiles.
Joints – Approximate 3mm wide Laticrete '500 Series Sanded Grout' mixed with Laticrete '1776 Latex Admix'. Colour to match surrounding pavements (Grey concrete).
Bedding – 10mm deep synthetic tile adhesive (Mapei or Latricrete)
Build up :

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- Poreclain tile 6mm (to be confirmed)
- Bedding 10mm

Instillation – Surrounding Concrete pavement to be poured with a 16 mm set-down(Tile thickness + Bedding Thickness) to allow for a flush tile finish with the thickness of the surrounding pavement.

11.5. PAVEMENT PROFILES – ASPHALT

PA03A: Pavement Profile – Asphalt – Pedestrian, At-Grade

Material – Indicatively 35mm thick of 7mm type L. Refer City of Port Phillip engineer detail CPP1301
Slip rating – Wet Pendulum Class rating 'P4' and slip resistant R11. All areas steeper than 1:14 to be Wet Pendulum Class rating 'P5' and slip resistant R12.
Installation and subgrade - Refer City of Port Phillip engineer detail CPP1301

PA03B: Pavement Profile – Asphalt – Vehicle, On-Structure

Material – Indicatively 40mm layer, Size 14 Type H 40mm layer, Size 14 Type V at roundabouts. To be in accordance with VicRoads Standard Section 407 - Hot Mix Asphalt. Refer City of Port Phillip engineer detail CPP1102
Slip rating – Wet Pendulum Class rating 'P4' and slip-resistant R11. All areas steeper than 1:14 are to have a wet pendulum class rating of 'P5' and slip resistant R12.
Installation and subgrade:

- Site-specific geotechnical investigations shall be undertaken prior to selecting a particular pavement profile based on the local subgrade conditions.
- Refer to City of Port Phillip engineer detail CPP1301

11.6. PAVEMENT PROFILES – PLAY AND SPORT FINISHES

PA04: Pavement Profile – Painted Sports Surface - Pedestrian, At-Grade

Material – MPS STREET BOND 150
Finish

- Primer – Streetbond epoxy primer
- Paint – Streetbond150 (apply 3 coats). Thickness approximately 1-2mm total

Fixing – Surface to be primed Streetbond epoxy primer, the surface to be painted directly to the primed surface.
Supplier – MPS Paving Systems Australia
Colour – Multiple colours (art instillation, colour TBC)
Sub-base depth/material – Applied directly to grey concrete base. Refer to supplier instillation guide for specification

Notes – Sample to be poured prior to instillation. Confirmation of Streetbond150 slip rating before installation

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11.7. PAVEMENT PROFILES – POROUS PAVEMENT

PA05: Pavement Profile – Compacted Gravel - Pedestrian, At-Grade

Material – Cement stabilised compacted gravel pavement top layer installed at 100mm full compacted depth, to 100mm subbase. Refer to City of Port Phillip standard details
Surface Finish - Ensure finished level does not sit proud of the surrounding surface finishes.
Supplier – Contractor to provide supplier for landscape architect and Melbourne Water PM approval
Colour – Tuscan Toppings, fine grained
Sub-base depth / material – 100mm class 3 compacted crushed rock Refer to City of Port Phillip standard details.
Reinforcing – N/A
Notes – Colour, spread of aggregate and levels are all to be uniform, achieved through consistent finishing practices. All final finishing should be done in the same direction. Areas of substantial patchiness will not be approved.

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11.8. PAVEMENT PROFILES – TACTILE GROUND SURFACE INDICATORS (TGSI)

TA01 – Tactile Type – Concrete Paver Tactiles

Material – Concrete Paver -Warning Tactiles
Product Code – Classic Tredfex
Size – 300 x 300mm
Surface Finish – Surface finish to meet AS1428, R11 Slip Rating and 30% Luminance Contrast to Pavement
Supplier – Seton or Similar Approved
Colour – Black (to be reviewed as per surface finish prior order and instillation)
Notes – Install tactile indicators as per manufacturers specification. Allow set down in surrounding features for the flush transition from warning tactile to adjacent pavements.
Note – All pram ramps, ramps, stairs, and kerb ramps are to have tactile as per AS1428.1 and per the Accessibility consultant's report/documentation. Contractor to confirm luminance contrast compliance against adjacent pavement.

TA02 – Tactile Type – Concrete Directional Paver Tactiles

Material – Concrete Paver - Directional Tactiles
Product Code – Classic Tredfex
Size – 300 x 300mm
Surface Finish – Surface finish to meet AS1428, R11 Slip Rating and 30% Luminance Contrast to Pavement
Supplier – Seton or Similar Approved
Colour – Black (to be reviewed as per surface finish prior to order and instillation.
Notes – Install tactile indicators as per manufacturers specification. Allow set down in surrounding features for the flush transition from warning tactile to adjacent pavements.
Note – All pram ramps, ramps, stairs, and kerb ramps are to have tactile as per AS1428.1 and per the Accessibility consultant's report/documentation. Contractor to confirm luminance contrast compliance against adjacent pavement.

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12. WALLS

12.1. GENERAL SPECIFICATIONS

All concrete works to comply with Concrete Sections of this specification.

Walls are to be constructed true to the documented line, levels and detail. Capping is to have a fall inwards (i.e. towards planting or backfill / upslope) to allow water shedding. There is to be no more than 2mm difference in height between adjoining facing segments or between adjoining capping segments.

Expansion joints, facing and wall capping segments are to be set out as indicated on the drawings and as directed on site by the Melbourne Water PM. Unless otherwise documented, cuts are to be carried out to achieve a gap of no more than 3mm between adjoining segments or other adjoining surfaces or structures. Slip resistance for the capping is to be compliant with AS 3661.1.

Walls are to be less than 1% from detailed face angles with zero subsidence. Horizontal wall members are to not sag.

Manufacturer's Technical Publications
References to the manufacturer's products or recommendations shall be deemed to incorporate reference to their technical literature and recommendations applicable to the construction type.

Expansion Joints
All visible expansion joints to be max. 10mm wide, sealed with coloured silicon sealant over backing rod. Sikaflex or equivalent. Colour to match adjacent surface finish colour.

Control Joints
Place control joints on the top surface of walls, at the centrelines of anti-skate seat notches where applicable.

Wall Heights
Refer to Grading Plans

Efflorescence
Take all necessary measurement to ensure no efflorescence occurs. Select base materials and include admixtures to prevent occurrence of efflorescence.

Filter Fabric
Lay filter fabric over the top of drainage cell to the base and up the sides (where documented) of the walls. Secure filter fabric between wall body and internal cladding (cladding to be min 150mm deep). If rendering is used apply 150mm wide aluminium collar in the same colour as rendered finish to fix filter fabric to wall. Also refer to Garden Type section.

Sample
Install a minimum 2.5m long sample area of each different wall type showing materials, surface pattern, colour, finish and joints for approval by the Melbourne Water PM. If acceptable, this sample should be retained as a quality benchmark and shall form part of the finished works.

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12.2. WALL TYPES

WA01: Wall Type – Concrete Block wall with Bluestone capping

Material –
- Concrete blockwork wall to match existing.
- Bluestone capping to match existing

Dimensions :
- Concrete blockwork - Nom 800mm(w) x 250mm(H) x 400mm(D). Size to be confirmed on site to match existing
- Bluestone capping - Nom 800mm(w) x 250mm(H) x 400mm(D). Size to be confirmed on site to match existing

Surface finish :
- Concrete Blockwork - Split face to match existing
- Bluestone capping - Natural

Colour :
- Concrete blockwork - Match existing
- Bluestone capping – Natural

Sealer/ant graffiti coating – to manufactures specification.

Waterproofing – Refer to structural engineers' documentation.

Structural Requirements & Footings - Refer to structural engineers' documentation.

Notes – Wall to tie in neatly with existing blockwork wall. Above information regarding sizing, product and colour is to be considered indicative only and it is the responsibility of the contractor to seek samples to find best match to existing blockwork wall. Where length of block wall is being demolished, blocks may be repurposed if restored to a suitably aesthetic and structurally sounds condition. Proposed reclaimed blocks are to be reviewed by structural engineer and landscape architect prior to reuse.

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13. FURNITURE

13.1. GENERAL SPECIFICATIONS

Alternatives and substitutes

Approval is to be gained from the Melbourne Water PM by the Landscape Contractor for any alternatives or substitutions prior to manufacture or purchase of materials.

Ensure all furniture items are treated with an anti-graffiti paint, such as Dry treat 'Stain-Proof Original' or approved equivalent. Coating is to be applied prior to site delivery and installation.

Sample

Install product sample of each different furniture type showing materials, surface pattern, colour, finish and joints for approval by the Melbourne Water PM. If acceptable, this sample should be retained as a quality benchmark and shall form part of the finished works.

Footings

Install footings in accordance with the manufacture's or Structural Engineer's specification. Shallow foundations for areas on-structure and over services or service chambers are to be installed in accordance with the Structural Engineer's specification.

13.2. FURNITURE TYPES

FU01A: Furniture Type – Bench Seat

Model – Seating – Timber Slatted
Supplier – For fabrication and installation details, contact the City of Port Phillip
Dimensions:

- Seat – 1895mm(L) x 420mm(H) x 620mm(D)
- Battens - 1800mm(L) x 40mm(H) x 30mm(D)

Materials:

- Frame – Stainless steel, 316
- Battens – Recycled Hardwood

Anti-Graffiti Protection – Furniture manufacturer is to apply 1 coat of clear, anti-graffiti paint, Dry treat 'Stain-Proof Original', Application: Ensure paint is applied prior to delivering and installing on-site, and in accordance with the manufacturer's recommendations.
Frame Colour – Stainless Steel
Slat Surface Finish – Smooth dressed
Fixing – For fabrication and installation details, contact the City of Port Phillip: Refer CP4301 for seat Cpp4502 for footing

FU01B: Furniture Type – Bench Seat – With Armrest and Backrest

Model – Seating – Timber Slatted
Supplier – For fabrication and installation details, contact the City of Port Phillip
Dimensions:

- Seat – 1895mm(L) x 885mm(H) x 650mm(D)
- Battens - 1800mm(L) x 40mm(H) x 30mm(D)

Materials:

- Frame – Stainless steel, 316

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- Battens – Recycled Hardwood

Anti-Graffiti Protection – Furniture manufacturer is to apply 1 coat of clear, anti-graffiti paint, Dry treat 'Stain-Proof Original', Application: Ensure paint is applied prior to delivering and installing on-site, and in accordance with the manufacturer's recommendations.
Frame Colour – Stainless Steel
Slat Surface Finish – Smooth-dressed
Fixing – For fabrication and installation details, contact the City of Port Phillip: Refer CP4301 for seat CPP4502 for footing

FU02: Furniture Type - Bike Rack

Model – Bike Hoop
Supplier – For fabrication details contact the City of Port Phillip
Dimensions – 800mm(W) x 1000mm(H), 120mm round steel
Materials – Stainless steel, 316
Colour – Stainless Steel
Anti-Graffiti Protection – Furniture manufacturer is to apply 1 coat of clear, anti-graffiti paint, Dry treat 'Stain-Proof Original', Application: Ensure paint is applied prior to delivering and installing on-site, and in accordance with the manufacturer's recommendations.
Fixing – For fabrication and installation details, contact the City of Port Phillip. Refer CP4101 for seat CPP4501 for footing

FU03: Furniture Type - Drinking Fountain

Model – Arqua Dog Bubbler. Or similarly approved by Melbourne Water PM
Supplier – Street Furniture
Dimensions – 770mm (W) x 240mm (D) x 1125mm (H)
Materials – Stainless Steel 316, Powder coated (colour TBC)
Anti-Graffiti Protection – Furniture manufacturer is to apply 1 coat of clear, anti-graffiti paint, Dry treat 'Stain-Proof Original', Application: Ensure paint is applied prior to delivering and installing on-site, and in accordance with the manufacturer's recommendations.
Installation- As per manufacturer's specification

FU04A: Furniture Type – Fixed Bollard

Model – Alfresco Bollard SB2255, Bolt down fixings
Supplier- Commercial Systems Australia (CSA)
Dimensions- 140mm(w) x 95mm(d) x 1000mm(h)
Frame – Powder coated mild steel 304, colour Dulux Black,
Battens - Australian Hardwood Timber (Class 1), Quantum Gold oil
Installation – Removable in ground sleeve fixing to manufacturers specification.

FU04B: Furniture Type – Removable Bollard

Model – Alfresco Bollard SB2255, removable in ground sleeve option
Supplier- Commercial Systems Australia (CSA)
Dimensions- 140mm(w) x 95mm(d) x 1000mm(h)
Frame – Powder coated mild steel 304, colour Dulux Black,

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Battens - Australian Hardwood Timber (Class 1), Quantum Gold oil
Installation – Removable in ground sleeve fixing to manufacturers specification.

FU05: Furniture Type – Fixed Bollard

Model — Composite Bollard
Supplier- For fabrication and installation details, contact the City of Port Phillip: Refer Detail CPP3514
Dimensions- 125mm(W) x 125mm(L) x 1060mm (H)
Frame – Composite. Colour Brunswick Green
Installation – Direct Bury or Fixed. For installation details, contact the City of Port Phillip: Refer Detail CPP3514
Note – Red, white or yellow reflective tape 100 x 75mm fixed to post and faced towards approaching traffic. Required where posts are adjacent to road kerb and / or if specified by Council. To manufactures specification.

FU06: Furniture Type – Bin Units

Model – 240L Bin Enclosure
Supplier – For fabrication and installation details contact the City of Port Phillip. Refer Detail CPP4201
Dimensions – 886mm(W) x 670mm(D) x 1020mm(H) to fit 240L bin
Materials –

- Frame – Perforated Stainless Steel 316
- Lid – Stainless Steel 316

Colour –

- Frame – Stainless Steel 316
- Lid – Mirror Finish

Fixings – Anchor fixed into concrete footing
Base - 900w x 900w x 150d 25MPa concrete footing coloured to match pavement surface
Installation – For fabrication and installation details contact the City of Port Phillip. Refer Detail CPP4201

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14. BALUSTRADE / HANDRAILS / FENCES / GATES

14.1. GENERAL SPECIFICATIONS

Balustrades and handrails are to be compliant with AS1428.

All steelwork is to be hot dip galvanised and powder coated as described in this specification. Each connection between aluminium and steel must be fully isolated with a neoprene washer, plates and sleeves or similar.

Sample

Install a minimum 2.5m long sample area of each different balustrade, handrail and fence type showing materials, surface pattern, colour, finish and joints for approval by the Melbourne Water PM. If acceptable, this sample should be retained as a quality benchmark and shall form part of the finished works.

Shop drawings for all non-standard items need to be provided by the Contractor.

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14.2. BALUSTRADE TYPES

BA01: Balustrade type –Balustrade, Powder Coated Steel

Material :
- Vertical Members - Mild steel
- Hand rest – Hardwood Timber
- Top Plate - Mild steel (top plate under top rail),
- Low Plate - Mild steel (horizontal members lower balustrade)

Material Dimensions:
- Vertical Members – 1100mm(H) x 100mm(W) x 6mm(T) plate
- Hand rest – 140mm(W) x 45mm (T) x 1500mm(L)
- Top Plate - 100mm(W) x 10mm(T) x 1500mm(L)
- Low Plate - 100mm(W) x 10mm(T) x 1500mm(L)

Configuration – 1500mm long module panel. Each vertical member is spaced at 100mm centers. Seamlessly joined from one end to the other. Allow 45mm from FFL to low plate.

Finish :
- Vertical Members – Powder coated (Balustrade).
- Hand rest – Smooth sanded and stained (Timber)
- Top Plate - Powder coated (Balustrade).
- Low Plate - Powder coated (Balustrade).

Colour:
- Mild Steel - Black (Balustrade).
- Timber - Clear Stain (Timber top rail)

Fixing – Surfaced mounted with Anchor fixed into concrete base.

Note: See Image Below for an indicative design look and feel



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14.3. FENCE TYPES

FE01: Fence Type 01 - Post and Pipe Fence

Material:
- Pipe - Galvanized and unpainted
- Posts - Treated Pine

Material Dimensions:
- Pipe – 60.33mm OD, 3.6mm thick
- Posts – 125mm(W) x 125mm(L) x 1060mm(H). Note All wooden posts to have pyramid style top with 30° chamfer

Colour – Natural

Concrete Footings – 600mm (D) x 425mm(Dia)

Installation – For Installation details, contact the City of Port Phillip. Refer detail CP3504

FE02: Fence Type 02 – Chain and Mesh Fencing

Material:
- Mesh - Black PVC coated chain mesh.
- Posts - Treated Pine

Material Dimensions:
- Mesh – 60.33mm OD, 3.6mm thick
- Posts – 125mm(W) x 125mm(L) x 1200mm(H). Note All wooden posts to have pyramid style top with 30° chamfer

Colour :
- Mesh – Powder Coated Black
- Posts – Treated Pine dressed all around.

Concrete Footings – 700mm (D) x 400mm(Dia)

Gate - Vehicle entry gate to be standard weldmesh farm gate 3.66m long and 1.20m high, plus fittings . Gate to be chained both ends to prevent theft.

Fixings - Galvanised, powder coated black oval flange fixing. Metal rail to fit into opening 25mm minimum. Use epoxy glue weld or tapping screw for additional joint strength

Installation – For Installation details, contact the City of Port Phillip. Refer detail CP3502

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15. LANDSCAPE STRUCTURES

15.1. GENERAL SPECIFICATIONS

All steelwork is to be hot dip galvanised and powder coated as described in this specification. Each connection between aluminium and steel must be fully isolated with a neoprene washer, plates and sleeves or similar

Sample

Install a minimum 2.5m long or 2.5m2 sample area of each different structure type showing materials, surface pattern, colour, finish and joints for approval by the Melbourne Water PM. If acceptable, this sample should be retained as a quality benchmark and shall form part of the finished works.

Shop drawings for all non-standard items need to be provided by the Contractor.

15.2. LANDSCAPE STRUCTURE TYPES

LS01: Landscape Structure Type – Custom Landscape Arbour

Location – Refer to landscape drawings
Description – Steel arbour with timber inserts and high gauge tension wire and off stands
Materials -

- Cross beam –Mild steel UB – size to be confirmed by structural engineer
- Post - Mild steel UB – size to be confirmed by structural engineer
- Inserts – Hardwood Timber
- Wire Trellis – S/S high gauge tension wire and fixings. Ronstan system or approved similar by Landscape Architect/ Melbourne Water PM

Dimensions:
Height, typ 3700, width varies, min 3000, max 5500

- Cross beam – nom 200x133 UB – subject to structural engineers' details
- Post - nom 200x133 UB – subject to structural engineers' details
- Insert – 180mm(W) x 20mm(D). sizing to allow timber to fit inside I Beam. Thickness confirmed prior to order and installation.
- Wire Trellis – S/S 316 tension wire and fixings

Finishes :

- Cross beam – Powder coat steel, colour: Charcoal (nom DURALLOY® CHARCOAL SATIN 27288351) or approved similar
- Post - Powder coat steel, colour: Charcoal (nom DURALLOY® CHARCOAL SATIN 27288351) or approved similar
- Insert -
- Wire Trellis – S/S tension wire 4mm Dia

Frame/Footings – Refer to structural engineers' documentation. Where no structural engineers' documentation is provided, it is the responsibility of the contractor to obtain structurally certified shop drawings prior to ordering of materials and construction
Installation – In accordance with detail drawings and structural engineers' documentation.
Notes - Cover to structural engineers' detail. Where footing is located in garden bed, cover to be min 300mm to allow for planting. Fabricators shop drawings of steel arbours to be provided for Landscape Architect and Melbourne Water PM approval prior to fabrication.

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16. SOIL

16.1. GENERAL SPECIFICATION

Quality Assurance and Control

Soil sample testing results are to be provided to ensure soils meet the specification requirements prior to and after installation. If the samples do not meet the performance specification, corrective actions must be undertaken at no additional cost to the Melbourne Water PM. Samples and testing results are to be submitted to the Melbourne Water PM by the contractor, and written approval to be obtained by the Melbourne Water PM before ordering or using the soil.

Soil Testing

All laboratory testing of work carried out shall be performed by a soil laboratory with the NATA and are to conform with all relevant Australian standards. Site soil sampling shall be carried out in locations selected by the Melbourne Water PM. Soil testing is to be carried out by SESL Australia.

All testing must be arranged by the Contractor, and carried out by an accredited laboratory. The test certificate will be accompanied by a statement of compliance from a competent person (e.g. qualified agronomist horticulturist or soil scientist).

Compliance certificates will be in the form of a report by the Contractor clearly stating the material is compliant, with an attachment showing the test results. In the case of minor non-compliance, a clear statement must be obtained from a qualified independent agronomist waiving the compliance and certifying the sample will perform the same as the specified soil.

Soil that is not compliant with this specification but is compliant with AS 4419 will not be accepted. Only soil compliant with this specification will be accepted. (Note that some measurement techniques from AS 4419 have been referenced for use in this specification).

No soil is to be purchased or installed until initial compliance testing certification has been demonstrated and approved by the Melbourne Water PM.

Delivery dockets for all imported soil are to be provided to the Melbourne Water PM immediately upon delivery, to demonstrate the approved soils are being supplied.

Manufacturer's Product Representation

For imported soils from manufacturers, a 'product representation' document produced by the supplier may be accepted as a compliance certificate if:

- it is an off-the-shelf product line, not a custom mix and
- a representative test certificate is available and is acceptably recent (within 1 month) and
- the testing covers all those criteria in the Urbis specification and complies and
- the manufacturer's quality assurance system is externally certified.

Quality Control During Construction

The Contractor must submit samples of blended soils or imported soil mixes at regular (max. 3 monthly) intervals during construction for the purposes of demonstrating continued compliance of quality control.

Test Submissions & Frequency

Submit representative samples of approx. 5 kg of each product specification, packed and labelled to indicate the source and the specification to be met. The samples must be taken in a representative manner. The

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Contractor must use the testing frequencies indicated in Table 1 below. Variations to the frequencies in this table are permitted on the submission to the Melbourne Water PM and approval of an alternative testing program that clearly achieves the desired outcome of quality control. Materials supplied from operations that have a third-party-endorsed quality assurance program may be acceptable pending submission of the relevant documentation.

Table 1. Outline of the required testing frequency to achieve compliance testing. Samples must be tested to the performance criteria indicated in the product specification.

Specification	Activity	Minimum Quality Control Test Frequency
At-grade soil, Turf	Turf areas	1 per 1000 m^3
At-grade soil, Gardens	Mass planting areas and trees	1 per 500 m^3
At-grade soil, Turf and Gardens for Stormwater Management	Turf, mass planting areas and trees in stormwater management areas	1 per 100 m^3
On-structure soil, Turf and Gardens	Turf, mass planting areas and trees	1 per 100 m^3

Note: Where the total volume is less than the stated quality control testing frequency volumes, the initial compliance certification certificate must be deemed to demonstrate compliance.

Minor Non-compliance

The Contractor will undertake corrective procedures to bring any non-compliant soil that has been installed, within compliance in accordance with the agronomist's advice.

Substantial Non-compliance

In the event that quality control samples and test results show substantial non-compliance from the approved specification target ranges, the Contractor is to provide methodology to rectify in place or remove and replace all non-compliant soils.

Record Keeping

Initial compliance certification records of all soils must be kept by the Contractor in an easily retrievable manner that provides for traceability of purchase and location on site. Each compliance certification for all the soils used on site must be identified by date, quantity supplied and a copy of the soil ingredients used to reach compliance. Each batch of soil must be identified by date of manufacture, quantity and a corresponding test result and must link into when the material was delivered and where the material was placed on site.

Unwanted Material

The soil must be free from any debris, existing plant matter, rubble, microplastics, plastics, glass, waste or other contaminated materials likely to interfere with the quality of the soil.

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16.2. SOIL TYPES

The following soil test result requirements meet or exceed AS 4419 requirements. All test results must comply with the below testing requirements. Compliance with AS 4419 does not mean acceptance under this specification.

At-Grade Soil - Turf

Quality – Soil must be free from any 'unwanted materials'

Physical properties particle sizes

Property	Units	Target Range	
2.0 mm (fine gravel)	% retained by mass	< 10	
1.0 mm (very coarse sand)		< 10	
0.5 mm (coarse sand)		10 - 30	30 - 50
0.25 mm (medium sand)		20 - 40	
0.1 mm (fine sand)		10 – 30	
0.05 (very fine sand)		5 – 15 (max 25 % combine vfs, Si + Clay combined)	
0.002 mm (silt)		5 – 10 (< 12 % Si + Clay combined)	
< 0.002 mm (clay)		3 – 8 (< 12 % Si + Clay combined)	
Large particles		2 – 20 mm = < 10 %, > 20mm = 0 %	
(OM) Organic matter content	**% dwb (dry weight basis)**	**Underlay Range 2 – 10%**	
Permeability	mm/hour	> 20 (@32 drops by McIntyre Jakobsen)	
Wettability (AS4419)	mm/min	> 5	
Dispersibility in water		1 or 2 (AS 4419 Category)	

Chemical Properties

Property	Units	Target Range
pH in water (1:5)	pH units	5.4 – 7.5
pH in $CaCl_2$ (1:5)	pH units	5.2 – 7.5
Electrical conductivity (1:5) (EC)	dS/m	< 0.75
Exchangeable Na percentage	% of eCEC	< 6
Exchangeable Ca/Mg ratio	Ratio	3 - 9
Available phosphorus Mehlich 3 Olsen	mg/kg	20 – 100 20 - 50
Available nitrogen (nitrate N + ammonium N)	mg/kg	20 - 60

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At-Grade Soil – Gardens

Quality – Soil must be free from any 'unwanted materials'

Physical properties particle sizes

Property	Units	Target Range
Texture, preferred range	n/a	Sandy loam to clay loam
(OM) Organic matter content	**% dwb (dry weight basis)**	**Medium Organic Range 10 -15%**
Permeability	mm/hour	> 20 (@ 32 drops by McIntyre Jakobsen)
Wettability (AS4419)	mm/min	> 5
Dispensability in water		1 or 2 (AS 4419 Category)
Large particles (naturally occurring)		
2 – 20mm	% w/w	< 20
> 20mm	% w/w	< 10
Visible contaminants > 2mm (glass, plastic and metal	% w/w	< 0.5

Chemical properties

Property	Units	Target Range
pH in water (1:5) standard range	pH units	5.4 – 6.8
pH in $CaCl_2$ (1:5) standard range	pH units	5.2 – 6.5
pH in $CaCl_2$ (1:5) alkaline range	pH units	6.8 – 8.0
pH in $CaCl_2$ (1:5) alkaline range	pH units	6.5 – 7.5
Electrical conductivity (1:5) (EC)	dS/m	< 0.75
Phosphorus – P-tolerant / standard plants	mg/kg	30 - 100
Phosphorus for P-sensitive plants, alkaline soil methods 9B1 or 9C1	mg/kg	< 20
Sodium (NA)	% of eCEC	< 7 %
Potassium (K)	% of eCEC	3 – 15 %
Calcium (Ca) method 18F1 (or 15A1 in alkaline soils)	% of eCEC	50 - 80
Exchangeable magnesium (Mg)	% of eCEC	10 - 30
Exchangeable aluminium (Al)	% of eCEC	< 5
Exchangeable Ca/Mg ratio	w/w	3-9
Available iron (Fe)	mg/kg	100 - 400
Available manganese (Mn)	mg/kg	25 - 100
Available zinc (Zn)	mg/kg	5 - 30
Available copper (Cu)	mg/kg	1 - 15
Available boron (B)	mg/kg	0.5 - 5
Available nitrogen (nitrate N + ammonium N)	mg/kg	> 20

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17. GARDENS

17.1. GENERAL SPECIFICATION

Samples
Supply soil sample testing reports as per the soil section above in the frequency specified.

Supply a 1 litre bag of each different mulch type to the Melbourne Water PM for approval prior to ordering and placement.

Soil Specification
All soil types are specified in the general soil specification above.

All soil is to be consolidated yet not compacted. All soil is to be installed to levels which allow for settlement, so that at off-maintenance (where applicable) all surface levels are to those detailed in the documents. Additional volume allowances are to be made by the Contractor to ensure this requirement is met.

All soil is to be free of weed seeds and is to be non-toxic to living organisms. On-structure planters are to be free from any debris/rubble immediately prior to drainage and soil placement.

Evenly grade between Reduced Levels (RL's) i.e. (spot levels).

Inside Planter Walls
Wrap the waterproofing up the inside of the planter walls. Use a protection board to protect the waterproofing membrane. Lay nonwoven, needle punched filter fabric to base and up the sides of the planter walls. Fix flashing through neoprene washer and seal flashing with flexible sealant on the top.

Planter Drainage
Planters on-structure are to be drained with a topping slab (with a minimum depth of 30mm and a maximum depth of 100mm)at a fall of 1:100 minimum to the subsoil drain and Draining Inspection Upstand. Refer to the Architects documentation for the topping slab.

Soil Trench Underneath Pavement
In areas where soil is placed underneath the pavement, Stratavault shall be installed. Install suspended slab for pavement and supporting walls, where required, to the boundary of the soil trench zone. No further structural support to be placed within the soil volume.

Planter Maintenance Access
All façade planters are to have a maintenance access either from inside the building or via rope access. All planters wider than 500mm to have maintenance access anchor points.

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17.2. GARDEN PROFILES

GA01: Garden Bed Profile – At-Grade
Mulch – 75mm depth, 'Medium' grade, 10-20mm fine Bark Mulch (aged / composted bark) **Soil** – 150mm depth imported topsoil **Subgrade Preparation** - Remove all existing weed material using glyphosate herbicide (to be applied minimum two weeks prior to lawn installation). Rip to 300mm depth. Where clay conditions are found, incorporate gypsum or clay breaker at the rate of 100g/m2.

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18. TURF

18.1. GENERAL SPECIFICATIONS

Samples
Supply soil testing reports as per Soil section in this specification, in the frequency specified.

Soil Specification
All soil types are specified in the general soil specification above.

All soil is to be consolidated yet not compacted. All soil is to be installed to levels which allow for settlement, so that at off-maintenance (where applicable) all surface levels are to those detailed in the documents. Additional volume allowances are to be made by the Contractor to ensure this requirement is met.

All soil is to be free of weed seeds and is to be non-toxic to living organisms. On-structure planters are to be free from any debris/rubble immediately prior to drainage and soil placement.

Evenly grade between Reduced Levels (RL's) i.e. (spot levels).Inside Planter Walls

Wrap the waterproofing up the inside of the planter walls. Use a protection board to protect the waterproofing membrane. Lay nonwoven, needle punched filter fabric to base and up the sides of the planter walls. Fix flashing through neoprene washer and seal flashing with flexible sealant on the top.

Turf pattern / joints
Lay a perimeter strip and then lay infill sods with staggered tightly butted joints. Dress joints and edges with soil (the same soil as used under turf) as required to prevent the turf from drying out and to provide a smooth transition to adjacent levels.

Watering
Water twice daily for the first week after laying to ensure rapid root establishment.

Top Dressing
Spread 10mm depth of medium washed river sand approximately 6 - 8 weeks after laying turf.

Quality
All turf must be AusGAP certified turf.

18.2. TURF PROFILES

TU01: Turf Profile – At-Grade

Turf Type - Kikuyus
Roll type - 600mm x 1.7m rolls (recommended for minimal wastage)
Soil - 200mm depth 'On grade soil media -Turf'
Subgrade Preparation - Remove all existing weed material using glyphosate herbicide (to be applied minimum two weeks prior to lawn installation). Rip to 150mm depth. Where clay conditions are found, incorporate gypsum or clay breaker at the rate of 100g/m2
Installation - To finish flush with adjacent surface levels. Top-dress with 10mm layer of clean washed river sand to achieve uniform surface if uneven. Top-dressing only to be undertaken in growing seasons (September to March)

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TU02: Turf Profile – Hydroseed - At-Grade

Turf Type – Hydroseed Mix
Description: Warm season mix 60% Perennial rye, 40% kikuyu (or similar approved)
Supplier: ecoDynamics or similar approved (Ph) 1300 78 22 66
Instillation - Supply and install hydroseed to areas as indicated on plans. To be free of weeds, fungus, insect pests or other deleterious matter and achieve 90% coverage after maintenance period. Spray the hydroseed evenly on top of 150mm depth top soil, along the land contours.

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19. PLANTING

19.1. GENERAL SPECIFICATIONS

Quality

All plants in containers 45L and over are to conform to AS 2303 “Tree Stock for Landscape Use”. The Contractor is to supply the Melbourne Water PM with a written compliance certificate for all plants 45L and over from a qualified Arborist.

All plants are to be vigorous and appropriately acclimatised with a rootball that is full but not restrained.

The root ball and canopy of all plants are to be balanced and the stem / trunk sufficiently developed so that the plants stay upright without staking and/or guying.

The Contractor must inspect and accept or reject plants / transplants immediately after being unloaded on site to check quantity, quality, vigour, health, crown balance (+/ - 20% from stem axis) and symmetry, crown density, pests (< 10% of foliage), growth uniformity (max. internode <1.2 x shortest internode), included bark, sun scald, root division / direction (>90% down and / or outwards) and occupancy (> 90% rootball intact when removed from container) and rootball soil volume.

Sampling

Partial destructive sampling as outlined in AS 2303 is likely to be carried out on some trees and plants. Trees and plants that fail may cause entire batches of trees and plants to be rejected.

Plant Substitutions

Any potential species substitutions or changes to nominated container or canopy sizes are to be noted in the tender as potential alternatives. No substitutions are to be purchased or installed unless approved in writing by the Melbourne Water PM.

Palm Heights

Palm heights are measured from the rootball surface to the base of the frond shaft for smooth trunk palms such as Bangalow, Alexandra and Royal Palms. Heights are measured to the base of the lowest fronds (after any required frond pruning / removal) for rough trunk palms such as Canary Island Date Palms, Livistonas and Washingtonias. Palm heights are never measured to the tip of the fronds.

Any specific height measurement notes in the plant schedule for individual palm species take precedence over this section of the specification.

Installation

Plants are to be installed in the locations shown on the planting plan(s). The tops of root balls of plants 45L and over are to be level with or up to 50mm higher than the surrounding soil level. Create watering "saucers" around all plants from containers larger than 5 litres (ie 200mm diameter). Do not pile up mulch against the base of the plant stem/trunk.

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19.2. PLANT INSTALLATION

Plant Installation: 100L – At-Grade

Planting hole - Excavate a hole no deeper than the rootball. **The hole is to be 4 times the diameter of the rootball.** Rip the sides of the hole prior to planting without disturbing the interfacing road sub-base (for street trees).
Watering dish - Form a 75mm high, 600 mm diameter mounded soil watering dish around the tree. Infill the water dish with mulch, ensuring mulch is clear of the trunk/stem. Fill the dish with water regularly during the initial plant establishment period.
Staking - Drive stakes into the ground outside the rootball, to approximately one third of their length, avoiding damage to roots. Install 3 times 50mm x 50mm x 2400mm stakes. Provide hessian ties fixed securely to the stakes. Tie at half the height of the main stem. Others as necessary to stabilise the plant. All ties to be loose fitting to allow stem movement.

Plant Installation: 45L – At-Grade

Planting Hole - Excavate a hole no deeper than the rootball. **The hole is to be 5 times the diameter of the rootball.** Rip the sides of the hole prior to planting.
Watering Dish - Form a 50mm high, 400mm diameter mounded soil watering dish around the tree. Infill the water dish with mulch, ensuring mulch is clear of the trunk/stem. Fill the dish with water regularly during the initial plant establishment period.
Staking - Drive stakes into the ground outside the rootball, to approximately one third of their length, avoiding damage to roots. Install three 50mm x 50mm x 1800mm stakes. Provide hessian ties fixed securely to the stakes. Tie at half the height of the main stem. Others as necessary to stabilise the plant. All ties to be loose fitting.

Plant Installation: 400mm – 140mm pot – At Grade

Planting Hole - Excavate a hole no deeper than the rootball. The hole is to be 3 times the diameter of the rootball.
Watering Dish - Form a mounded soil watering dish around the plant. Infill the water dish with mulch **ensuring no mulch is in contact with the plant crown.**.

Plant Installation: 75mm tubes– At Grade

Planting Hole - Hole diameter: The hole is to be 3 times the diameter of the rootball. The sides of the hole are to be rough to allow future root penetration. The bottom of the hole shall be decompacted to a depth of 100 mm
Watering Dish - Form a mounded soil watering dish around the plant.

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20. IRRIGATION

20.1. GENERAL SPECIFICATIONS

It is the Head Contractors responsibility to co-ordinate all required Approval Authorities connection approvals and certificates.

Individual courtyards / levels / areas are to be capable of being individually programmed.

A meter is to be installed to measure the amount of water used by the system.

All irrigation designs within all landscape and turf areas must apply a distribution uniformity equal to or greater than 75%.

The scheduling of the irrigation system (Automatic Control Programs) shall be set to achieve the maximum efficiencies possible. The application rate of the system must not be greater than the infiltration rate of the soil. Pooling of irrigation water on the surface will not be accepted. Adding “cycle & soak” to the irrigation programs will eliminate this scenario where the application rate of the irrigation system exceeds the infiltration rate of the soil.

All irrigation conduits on basement and podium are to be cast into the structural slab. This and all penetration through the structural slab are to be closely coordinated with the Structural Engineer and Hydraulic Engineer.

A full description of the system and its components are to be listed in the submitted design documentation of the Irrigation Contractor. This documentation should include drawings and schedule of quantities. *It is the responsibility of the Irrigation Contractor to ensure they have all the relevant documentation and to provide a detailed Schedule of quantities.* If a "Lump Sum" submission is tendered it will be presumed that all the required items have been included in the Tender price.

If existing services are located on site, it is the Contractor’s responsibility to source all existing as-constructed information for all services for local authorities or/and client before commencement of works. The Contractor must obtain approval from the Client prior to commencement of any excavation in the vicinity of existing services.

Submit all documents to the Melbourne Water PM for review and approval. Locations of meter boxes, mains connections and valve and meter box locations to be approved by Melbourne Water PM.

The equipment and installation processes described are intended to produce an irrigation system which complies with all applicable industry and local authority and Australian standards.

The Irrigation Contractor will inspect the site and verify the available water flow and pressure, prior to lodgement of design and tender. The Irrigation Contractor will be responsible for all works required. Items not specifically described in this Specification, but which would normally be required to produce a fully functioning irrigation system are to be considered part of the required works.

It is the Irrigation Contractor’s responsibility to bring to the Melbourne Water PM’s attention any concerns, potential obstacles or possible improvements before construction commences.

20.2. IRRIGATION TYPES

Permanent Automated Sub-surface and Surface Spray Irrigation System
Description – Design, supply, installation and commissioning of a permanent automated sub-surface and surface spray irrigation system. To include pump, controller and all electricals. **Water supply -** From the on-site rainwater collection tank(s) and from the potable main water connection.

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Extent - The system is to cover all new gardens beds, trees/palms and lawns
Capacity - The system is to be capable of supplying 32mm of water/week/m2 over all areas. It is to be designed to operate for 10 years (minimum).
Installation – For planting areas water is to be delivered via sub-surface (ie. under the mulch but above the soil) drip lines. Conduits are to be provided under paving, walls etc by the Head Contractor. Individual trees (100 litre and over) are to be fitted with a drip line around the root ball. For turf areas, water is to be delivered via pop up sprays, with a minimum overlap of 30 degrees to irrigation zones.
Pit Installation - Valve pits are to be set on a 200mm deep bed of gravel for drainage. Pit covers are to be level with the soil surface.
Plumbing - Include plumbing connection to the main line, all valves and backflow prevention. Install a suitably sized pump and housing to provide the necessary flow rates and pressure. Incorporate the ability to automatically switch to mains water (if allowed) when the rainwater tank is dry. A dedicated GPO is to be provided by the Head Contractor.
Controller - Locate a central multi-station controller in a lockable box as directed by the Melbourne Water PM. Allocate 1 station for each private lawn, 1 for any communal lawn, 1 for each private garden area and several for the different communal garden areas to accommodate different microclimates and plant water requirements. A dedicated GPO is to be provided by the Head Contractor.
Rain sensor – Locate a rain sensor in a suitable spot and connect it to the controller
Authority Approvals – Gain approval of all work by the regulatory authority.
As Builts - Prepare and supply as-installed drawings and commission the system.

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21. ESTABLISHMENT MAINTENANCE

21.1. GENERAL

The work contained in this section comprises the Establishment Maintenance of all works executed under this contract. The Establishment Maintenance period begins at the issue of the Certificate of Practical Completion. Maintain the contract areas for the period outlined in the Schedule of Landscape Works.

Maintenance of the works prior to the date of Practical Completion shall not be included in this period.

If the maintenance period is extended by the Builder, it is the Contractors' responsibility to meet the capital and maintenance costs of elements.

Promptly make good any defects or damage resulting from defective construction, materials or workmanship to the complete satisfaction of the Melbourne Water PM during this period. The cost of replacement is the responsibility of the Contractor. In the event of any failure to rectify defective work, the Melbourne Water PM may instruct that the work be carried out by another company, the cost of which will be charged to the Contractor.

Stolen or vandalised items and plants are not required to be replaced by the Contractor as part of their Establishment Maintenance responsibilities. Such replacement and rectification work is to be done by the contractor and invoiced to the Client for their payment. It is the Contractor's responsibility to source and replace them at the originally specified size.

It is the Contractor's responsibility to highlight areas or items which may require additional maintenance management beyond the normal facility management. These include emptying of rubbish bins, general regular cleaning etc.

Prior to the handover, allow for a clean up to presentation standard of the entire landscape works area.

Tasks which are required on a 12-month interval are to be complete prior to the end of the end of Maintenance Establishment inspection. This includes all timber surfaces to be recoated with protective treatment as specified.

21.2. TREE TRANSPLANTING / PROTECTION MAINTENANCE

The start date for maintenance of transplanted trees and palms begins the day the tree(s) or palm(s) are placed in their proposed final location and backfilled. The period from the transplanting of all plants until the start of certified On-Maintenance period is to be considered in addition to the required full maintenance period. The required maintenance period is not completed until certified Off-Maintenance is granted.

Carry out all maintenance activities on the transplant(s) necessary to ensure they become fully re-established within the Establishment Maintenance period and are returned to a healthy and vigorous state with a min. 90% of the original foliage density (i.e. excluding epicormic growth).

Watering

The tree(s) may require large volumes of water to be applied by hand at the time of planting and repeated twice weekly during the initial period (min. 6 weeks). Test, rectify and adjust the irrigation system or watering regime as necessary to maintain optimum soil moisture levels in and around the root plate(s). The root plate (and not the surrounding backfill soil) is the tree's main water source for many months after transplanting. Ensure it is kept moist (but not over watered) at all times.

Wrapping

For thin or smooth bark trees, if more than 40% of the foliage is shed due to post-transplant stress then the trunk and branches (greater than 50mm diameter) are to be wrapped with light coloured biodegradable

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paper or hessian to reduce bark scalding. Wrap from the bottom of the trunk upwards so the layers overlap and thus shed water.

Soil testing

Provide detailed chemical and physical test results of the root plate of each tree and backfill soil 2 weeks prior to the completion of the Establishment Maintenance period. Rectify any identified chemical or physical soil imbalances as per the testing laboratory recommendations prior to the completion of the Establishment Maintenance period.

21.3. ESTABLISHMENT MAINTENANCE LOG

Keep a detailed maintenance log of all activities undertaken including watering regimes and fertiliser applications. This log is to be given to the Melbourne Water PM and Facility Manager at the completion of the Establishment Maintenance period.

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21.4. ESTABLISHMENT MAINTENANCE TASKS

Task	Standard
Turfed areas	• Test, rectify and adjust the watering regimes or water manually regularly as necessary to maintain optimum soil moisture levels in all areas • Fertilize at 3-month intervals • Aerate at 12-month intervals • Replace bare patches over 1m2 immediately • Trim edges to maintain straight or gently curved lines as per the design intent • Check regularly for pest infection and apply pest treatment • Weed regularly to keep weed infestation to zero • Mow regularly as required • Apply 10mm deep clean washed river sand as a top dressing at 12-month intervals
Garden beds	• Test, rectify and adjust the watering regimes or water manually regularly as necessary to maintain optimum soil moisture levels in all areas • Replace failed plans immediately with the originally specified species plant sizes and container sizes • Clean all leaves of plants which are undercover at a monthly interval • Weed regularly (weekly) • Top up organic mulch at 6-month intervals • Top up gravel mulch as required • Mulched surfaces are to be kept clean and tidy and free of any deleterious material and foreign matter • Check plants weekly for pest and disease infestation • Spray for pests and disease infestations when a pest and fungal attack has been identified • Apply a balance of man-made and natural slow release fertiliser to all planting areas at 3-month intervals. • Check for signs of nutrient deficiencies (yellowing of leaves, failure to thrive), and adapt fertiliser regime to suit. Treat as required • Aerate at 12-month intervals • Clean all fallen leaves at monthly intervals and more frequently during autumn
Trees and shrubs	• Trees may require up to 50L of water to be applied by hand at the time of planting and repeated twice weekly during the initial period (minimum 6 weeks). Test, rectify and adjust the watering regimes or water manually regularly as necessary to maintain optimum soil moisture levels in all areas • Replace failed plants immediately with the originally specified species plant sizes and container sizes • Adjust and/or replace stakes and ties monthly. Remove staking and visible guying after 11 months or sooner if the plant is self supporting. • Prune shrubs and trees in accordance with the maintenance manual. In general, shrubs and trees will be tip pruned to ensure a strong, sound form and dense, bushy appearance. Remove overhanging branches or foliage that prevents proper function of a space e.g. pathways, seating areas, sightlines. Remove branches which are at risk of storm damage • All tree pruning to be carried out by a qualified Arborist • Apply root hormone periodically once new roots have begun to grow (fertiliser is unlikely to be effective until new roots are absorbing water).

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	• Clean all fallen leaves of trees and shrubs at monthly intervals and more frequently during autumn • Weed regularly (weekly) • Top up organic mulch at 6-month intervals • Top up gravel mulch as required • Mulched surfaces are to be kept clean and tidy and free of any deleterious material and foreign matter • Check plants weekly for pest and disease infestation • Spray for pests and disease infestations when the pest and fungal attack has been identified • Apply a balance of man-made and natural slow release fertiliser to all planting areas at 3-month intervals. • Check for signs of nutrient deficiencies (yellowing of leaves, failure to thrive), and adapt fertiliser regime to suit. Treat as required • Aerate at 12-month intervals
Irrigation	• Adjust irrigation control as required to suit the respective season and rainfall • Check irrigation system for possible leaks and sound operation of automatic system monthly • Flush irrigation system at 12-month intervals. • Maintain irrigation components as required by the manufacturer's manual
External furniture and structure	• Maintained in accordance with manufacturer's instructions • Apply sealer in accordance with manufacturer's instructions
Timber Works	• Inspect monthly • Remove of splinters, replace cracked, cupped or degraded boards as identified at inspection • Apply a light sand and preservative coat in accordance with manufacturer's specification at 6-month intervals • Retightening and/or replacement of fixings at 12-month intervals
Tree / Palm Transplanting	• Monitor / adjust the irrigation system or watering regime in liaison with the Landscape Contractor, water if required • Test, rectify and adjust the watering regimes or water manually regularly as necessary to maintain optimum soil moisture levels in all areas • Spray for pests and disease infestations when the pest and fungal attack has been identified • Apply fertiliser once root growth & water uptake has begun • Wrap trunk/branch to prevent sun scald if necessary due to leaf loss >40% • Prune dieback • Top up soil and mulch • For thin or smooth bark trees, if more than 40% of the foliage is shed due to post-transplant stress then the trunk and branches (greater than 50mm diameter) are to be wrapped with light coloured biodegradable paper or hessian to reduce bark scalding. Wrap from the bottom of the trunk upwards so the layers overlap and thus shed water. • Organise soil testing • Adjust and/or replace stakes and ties monthly. Remove staking and visible guying after 11 months.

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Version: 1, Version Date: 08/01/2025

	• Weed regularly (weekly)

WORK IN PROGRESS

City of Port Phillip
Advertised Document
Planning Application No. PDPL/00673/2024
No. of Pages: 393 of 418

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Version: 1, Version Date: 08/01/2025

APPENDIX A

WORK IN PROGRESS

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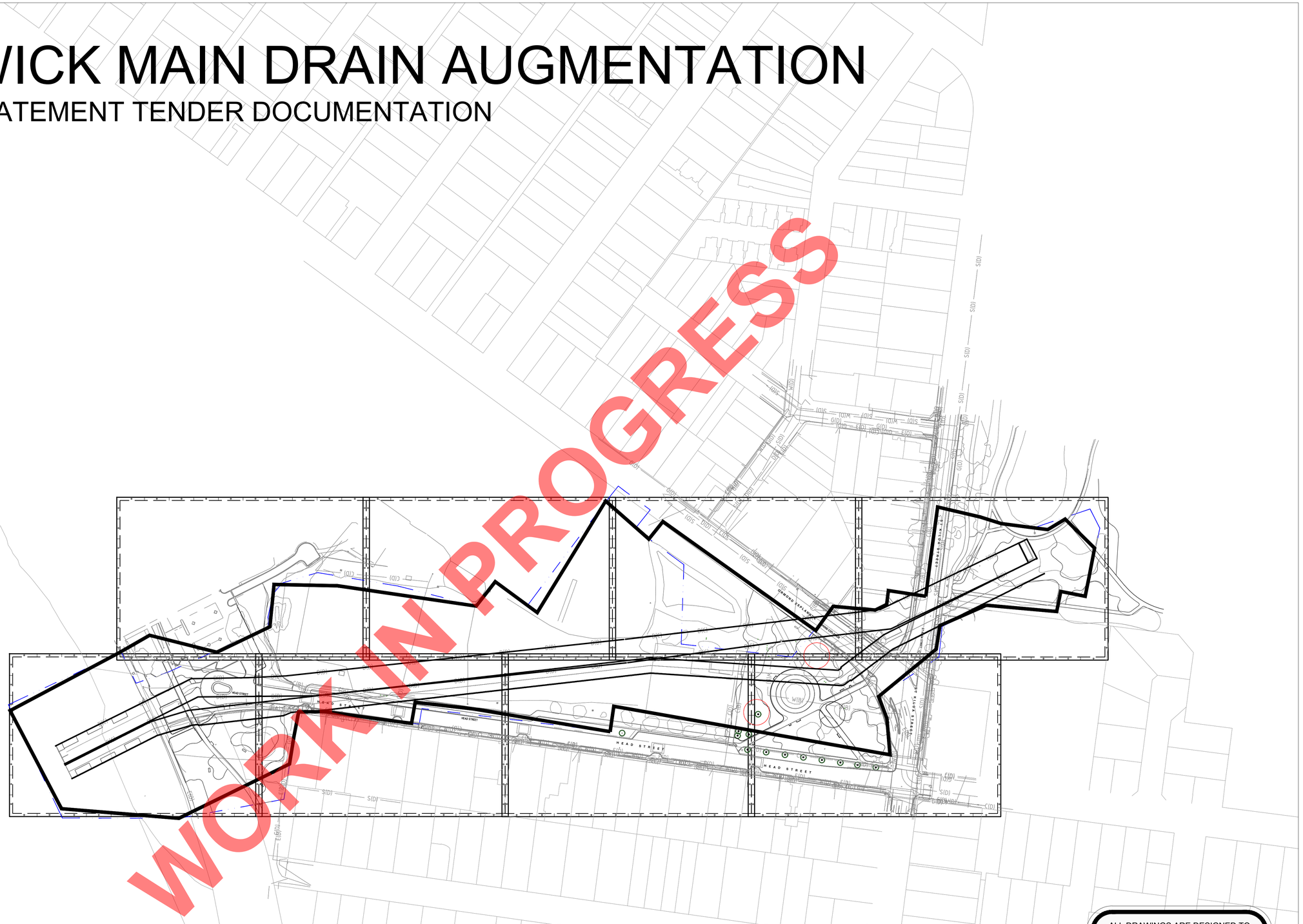
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Version: 1, Version Date: 08/01/2025

ELSTERNWICK MAIN DRAIN AUGMENTATION

LANDSCAPE REINSTATEMENT TENDER DOCUMENTATION

Sheet List Table	
Sheet Number	Sheet Title
001-CS	COVER SHEET
002-CS	COVER SHEET 02
003-CS	COVER SHEET 03
201-FI	FINISHES PLAN SHEET 1
202-FI	FINISHES PLAN SHEET 2
203-FI	FINISHES PLAN SHEET 3
204-FI	FINISHES PLAN SHEET 4
205-FI	FINISHES PLAN SHEET 5
206-FI	FINISHES PLAN SHEET 6
207-FI	FINISHES PLAN SHEET 7
208-FI	FINISHES PLAN SHEET 8
501-PL	PLANTING PLAN 01
502-PL	PLANTING PLAN 02
503-PL	PLANTING PLAN 03
504-PL	PLANTING PLAN 04
505-PL	PLANTING PLAN 05
506-PL	PLANTING PLAN 06
507-PL	PLANTING PLAN 07
508-PL	PLANTING PLAN 08
901-DT	DETAILS 01
902-DT	DETAILS 02
903-DT	DETAILS 03



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PROJECT
ELWOOD MAIN DRAIN AUGMENTATION

KEY PLAN

REV	DESCRIPTION	DWN	CHK	DATE
A	FOR REVIEW	HS	BB	

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PROJECT DIRECTOR: BRENTON BEGGS

CLIENT
MELBOURNE WATER

DRAWING TITLE
COVER SHEET

ISSUE
FOR REVIEW

PROJECT NO.
P0039825

SCALE
1:100 @ A1 1:200 @ A3
1 2 3 4 5m

NORTH

DRAWING NO.
001-CS

REVISION
A

Document Set ID: 8588168
Version: 1, Version Date: 08/01/2025

GENERAL LEGEND

EXTENT OF WORKS

SHEET JOIN LINE

PROPERTY BOUNDARY

EXISTING WALL
RETAINED

TREE LEGEND

EXISTING TREE
TO BE RETAINED

EXISTING TREE
TO BE REMOVED

EXISTING TREE
TO BE TRANSPLANTED
REFER LANDSCAPE SPECIFICATION

TREE
REFER PLANTING PLANS AND PLANT SCHEDULE

FINISHES LEGEND
REFER LANDSCAPE SPECIFICATION FOR DETAILS & FINISHES

PAVEMENT TYPES

PA01A: PAVEMENT TYPE 01A
CONCRETE PAVING (PEDESTRIAN-LOADING)
REFER TO LANDSCAPE SPECIFICATION

PA01B: PAVEMENT TYPE 02B
CONCRETE PAVEMENT (VEHICLE-LOADING)
REFER TO LANDSCAPE SPECIFICATION

PA02: PAVEMENT TYPE 02
EXISTING FEATURE MOSAIC TILE
REFER TO LANDSCAPE SPECIFICATION

PA03A: PAVEMENT TYPE 03A
ASPHALT (PEDESTRIAN-LOADING)
REFER TO LANDSCAPE SPECIFICATION

PA03B: PAVEMENT TYPE 03B
ASPHALT (VEHICLE-LOADING)
REFER TO LANDSCAPE SPECIFICATION

PA04: PAVEMENT TYPE 04
PAINTED SPORTED SURFACE
REFER TO LANDSCAPE SPECIFICATION

PA05: PAVEMENT TYPE 05
COMPACTED GRAVEL
REFER TO LANDSCAPE SPECIFICATION

GARDEN TYPES

GA01: GARDEN TYPE 01
GARDBEN BED PROFILE - AT-GRADE
REFER LANDSCAPE SPECIFICATION

TURF TYPES

TU01: TURF TYPE
REFER LANDSCAPE SPECIFICATION

EDGE TYPES

ED01: EDGE TYPE 01
FLUSH CONCRETE EDGE
REFER LANDSCAPE SPECIFICATION

ED02: EDGE TYPE 02
BLUESTONE EDGE (RAISED)
REFER LANDSCAPE SPECIFICATION

ED03: EDGE TYPE 03
DRESSED BLUESTONE CURB (150mm)
REFER LANDSCAPE SPECIFICATION

ED04: EDGE TYPE 04
STEEL EDGE
REFER LANDSCAPE SPECIFICATION

ED05: EDGE TYPE 05
SPADE EDGE
REFER LANDSCAPE SPECIFICATION

WALL TYPES

WA01: WALL TYPE 01
CONCRETE BLOCK WALL WITH BLUESTONE CAPPING
REFER LANDSCAPE SPECIFICATION

FURNITURE LEGEND
REFER LANDSCAPE SPECIFICATION

FURNITURE TYPES

FU01: FURNITURE TYPE 01
BENCH SEAT
REFER LANDSCAPE SPECIFICATION

FU02: FURNITURE TYPE 02
BIKE RACK
REFER LANDSCAPE SPECIFICATION

FU03: FURNITURE TYPE 03
DRINKING FOUNTAIN
REFER LANDSCAPE SPECIFICATION

FU04A: FURNITURE TYPE 04A
FIXED BOLLARD
REFER LANDSCAPE SPECIFICATION

FU04B: FURNITURE TYPE 04B
REMOVEABLE BOLLARD
REFER LANDSCAPE SPECIFICATION

FU05: PAVEMENT TYPE 05
FIXED BOLLARD
REFER LANDSCAPE SPECIFICATION

FU06: PAVEMENT TYPE 06
BIN UNIT
REFER LANDSCAPE SPECIFICATION

BALUSTRATE TYPES

BA01: BALUSTRADE TYPE 01
POWDER COATED PIER BALUSTRADE
REFER LANDSCAPE SPECIFICATION

FENCE TYPES

FE01: FENCE TYPE 01
POST AND PIPE FENCE
REFER LANDSCAPE SPECIFICATION

FE02: FENCE TYPE 02
CHAIN AND MESH FENCE
REFER LANDSCAPE SPECIFICATION

MISCELLANEOUS

TA01: TACTILE TYPE 01
COCNRETE PAVER WARNING TACTILES
REFER LANDSCAPE SPECIFICATION

TA02: TACTILE TYPE 02
COCNRETE PAVER DIRECTIONAL TACTILES
REFER LANDSCAPE SPECIFICATION

MI02: MISCELLANEOUS TYPE 01
CUSTOM LANDSCAPE ARBOUR
REFER LANDSCAPE SPECIFICATION

PLANTING SCHEDULE

TREES

PLANT CODE	POT SIZE	SPACING	Qty.
REMOVED	100 Litre	AS SHOWN	1
PROPOSED	100 Litre	AS SHOWN	31
TRANSPLANTED	100 Litre	AS SHOWN	1
EXISTING	100 Litre	AS SHOWN	1

MIX_01 (%)

PLANT CODE	(%)	SPACING	POT SIZE	Area	Qty.
SHRUBS	40	500 mm	14 cm	2327.2 m²	9308
GROUNDCOVERS	30	500 mm	14 cm	1745.4 m²	6980
GRASSES	30	500 mm	14 cm	1745.4 m²	6980

PLANT LIST
SPECIES TO BE SELECTED FROM

TREES
SHRUBS
GRASSES
GROUNDCOVERS

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PROJECT
ELWOOD MAIN DRAIN AUGMENTATION

KEY PLAN

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CLIENT
MELBOURNE WATER

DRAWING TITLE
COVER SHEET 02

ISSUE

PROJECT NO.
P0039825

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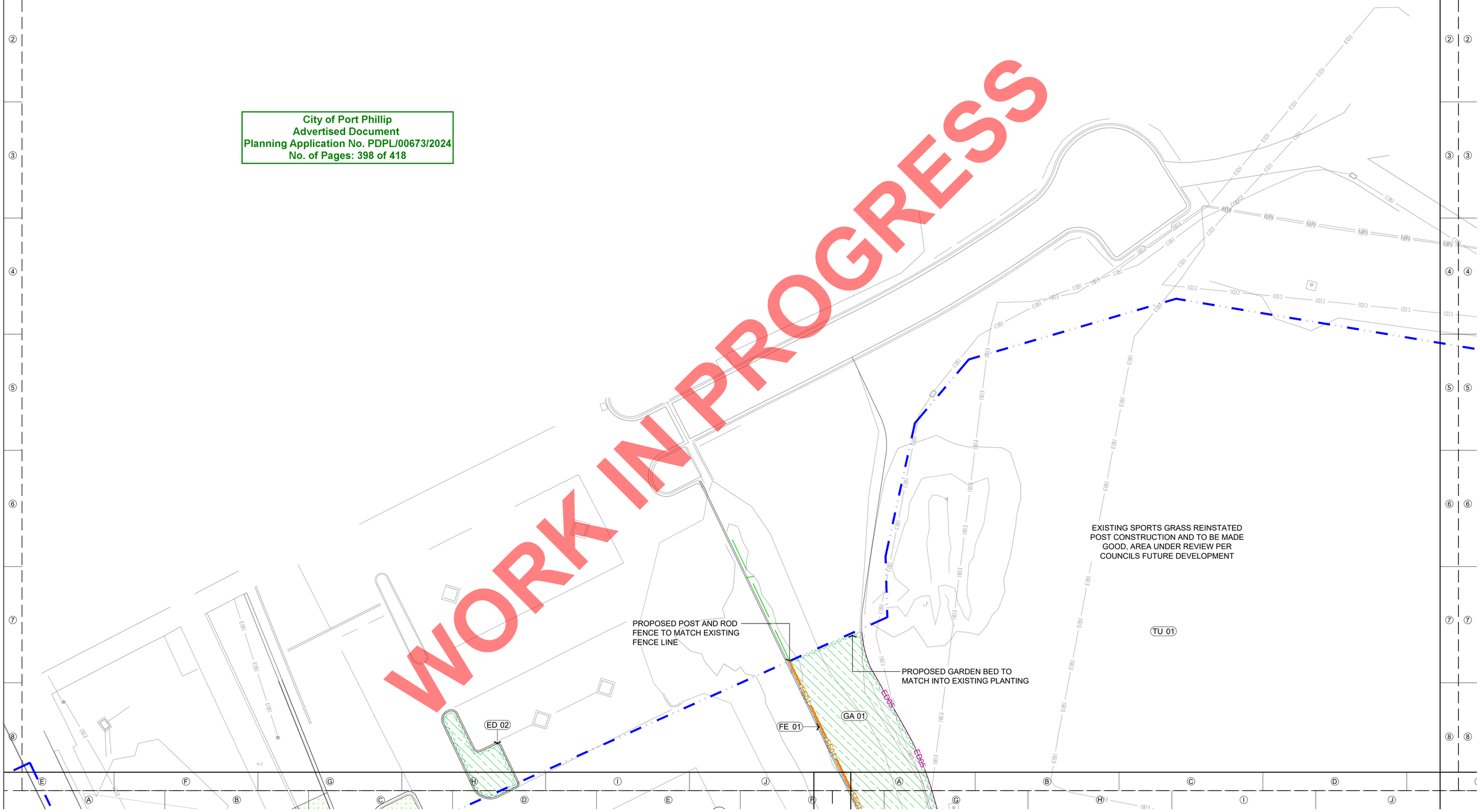
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Planning Application No. PDPL/00673/2024
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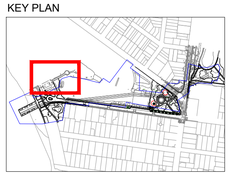
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PROJECT DIRECTOR: BRENTON BEGGS

CLIENT
MELBOURNE WATER
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DRAWING TITLE
FINISHES PLAN SHEET 1
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ISSUE

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P0039825

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WORK IN PROGRESS

EXISTING EXERCISE AREA TO BE RETAINED

PROPOSED SURFACE FINISH TO MATCH INTO EXISTING AND MADE GOOD

DESIGN AND LAYOUT OF PIER FURNITURE TO FUTURE DETAIL

EXISTING BLUE STONE ISLAND UPSTAND TO BE REINSTATED

BLUE STONE KERB REINSTATED AS PER EXISTING

REINSTATED SIGNAGE ALONG BLUESTONE WALL

EXISTING BLUESTONE WALL TO BE REINSTATED ALONG BAY TRAIL

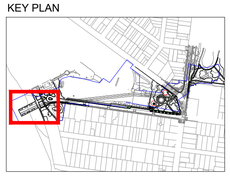
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PROJECT

ELWOOD MAIN DRAIN AUGMENTATION

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CLIENT
MELBOURNE WATER

DRAWING TITLE
FINISHES PLAN SHEET 2

ISSUE

SCALE
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NORTH

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202-FI

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P0039825

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WORK IN PROGRESS

EXISTING SPORTS GRASS REINSTATED POST CONSTRUCTION AND TO BE MADE GOOD, AREA UNDER REVIEW PER COUNCILS FUTURE DEVELOPMENT

TU 01

TU 01

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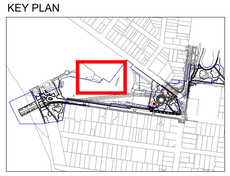
PROJECT

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CLIENT
MELBOURNE WATER
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FINISHES PLAN SHEET 3
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P0039825

SCALE
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NORTH

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203-FI

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EXISTING SPORTS GRASS REINSTATED POST CONSTRUCTION AND TO BE MADE GOOD, AREA UNDER REVIEW PER COUNCILS FUTURE DEVELOPMENT

PROPOSED POST AND ROD FENCE TO MATCH EXISTING FENCE LINE

REINSTATED BLUESTONE KERB TO MATCH INTO EXISTING KERB, REFER CIVIL DOCUMENTATION FOR FURTHER DETAILS

HEAD STREET

WORK IN PROGRESS

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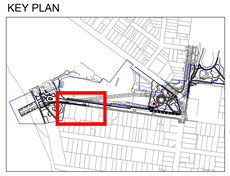
PROJECT

ELWOOD MAIN DRAIN AUGMENTATION

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KEY PLAN



REV | DESCRIPTION | DWN | CHK | DATE

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PROJECT DIRECTOR: BRENTON BEGGS

CLIENT
MELBOURNE WATER

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DRAWING TITLE
FINISHES PLAN SHEET 4

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ISSUE

PROJECT NO.
P0039825

SCALE
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1 2 3 4 5m

NORTH

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204-FI

REVISION

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Version: 1, Version Date: 08/01/2025

City of Port Phillip
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No. of Pages: 402 of 418

WORK IN PROGRESS

EXISTING SPORTS GRASS REINSTATED POST CONSTRUCTION AND TO BE MADE GOOD, AREA UNDER REVIEW PER COUNCILS FUTURE DEVELOPMENT

PROPOSED GARDEN BED TO MATCH INTO EXISTING PLANTING

ORMOND ESPLANADE

GA 01

TU 01

ED 05

ED 05

GA 01

ED 05

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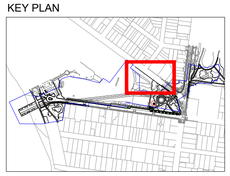
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KEY PLAN



REV | DESCRIPTION | DWN | CHK | DATE

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PROJECT DIRECTOR: BRENTON BEGGS

CLIENT
MELBOURNE WATER

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DRAWING TITLE
FINISHES PLAN SHEET 5

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ISSUE

PROJECT NO.
P0039825

SCALE
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NORTH

DRAWING NO.
205-FI

REVISION

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EXISTING SPORTS GRASS REINSTATED POST CONSTRUCTION AND TO BE MADE GOOD, AREA UNDER REVIEW PER COUNCILS FUTURE DEVELOPMENT

TU 01

EXISTING POST AND ROD FENCE TO BE RETAINED

H E A D S T R E E T

GA 01

ED 05

ED 06

City of Port Phillip
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Planning Application No. PDPL/00673/2024
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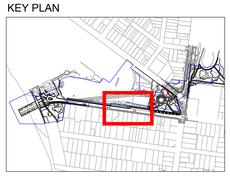
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PROJECT

ELWOOD MAIN DRAIN AUGMENTATION

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PROJECT DIRECTOR: BRENTON BEGGS

CLIENT
MELBOURNE WATER

DRAWING TITLE
FINISHES PLAN SHEET 6

ISSUE

PROJECT NO.
P0039825

SCALE
1:100 @ A1 1:200 @ A3
1 2 3 4 5m

NORTH

DRAWING NO.
206-FI

REVISION

Document Set ID: 8588168
Version: 1, Version Date: 08/01/2025

ST KILDA STREET

EXISTING CHAIN LINK FENCE TO BE RETAINED

PROPOSED CHAIN LINK FENCE TO MATCH INTO EXISTING FENCE

EXISTING GARDEN BED TO BE RETAINED AND MADE GOOD

PROPOSED GARDEN BED TO MATCH INTO EXISTING PLANTING

PROPOSED COMPACTED GRAVEL TO MATCH INTO EXISTING SURFACE FINISH

PROPOSED GARDEN BED TO MATCH INTO EXISTING PLANTING

PROPOSED COMPACTED GRAVEL TO MATCH INTO EXISTING SURFACE FINISH

LANDSCAPE DESIGN UNDER REVIEW TO BE ALIGNED WITH CIVIL DOCUMENTATION

REINSTATED TURF VERGE TO MATCH INTO EXISTING, TO BED MADE GOOD

WORK IN PROGRESS

City of Port Phillip
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Planning Application No. PDPL/00673/2024
No. of Pages: 404 of 418

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PROJECT
ELWOOD MAIN DRAIN AUGMENTATION

KEY PLAN

REV DESCRIPTION DWN CHK DATE

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PROJECT DIRECTOR: BRENTON BEGGS

CLIENT
MELBOURNE WATER

ISSUE ----
PROJECT NO. P0039825
SCALE 1:100 @ A1 1:200 @ A3
NORTH

DRAWING TITLE
FINISHES PLAN SHEET 7

DRAWING NO. 207-FI
REVISION ----

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Advertised Document
Planning Application No. PDPL/00673/2024
No. of Pages: 405 of 418

ST KILDA STREET

HEAD STREET

EXISTING POST AND ROD FENCE TO BE RETAINED

EXISTING TURF VERGE TO BE RETAINED AND MADE GOOD

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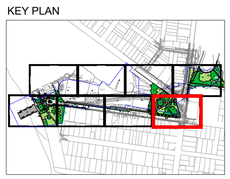
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PROJECT

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DRAWING TITLE
FINISHES PLAN SHEET 8

ISSUE

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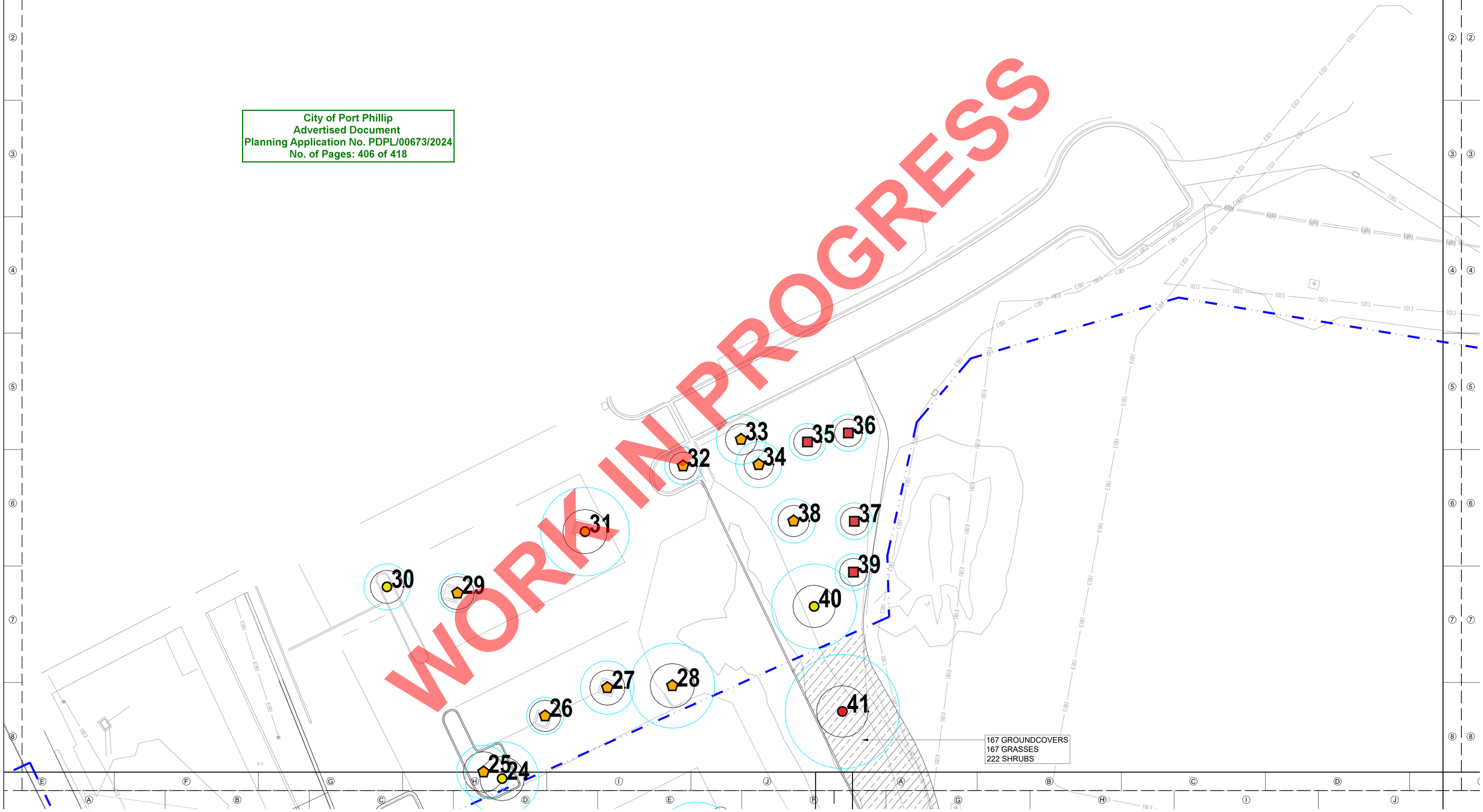
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Advertised Document
Planning Application No. PDPL/00673/2024
No. of Pages: 406 of 418

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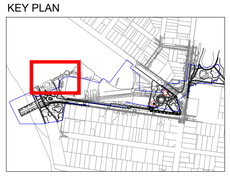


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PROJECT
ELWOOD MAIN DRAIN AUGMENTATION

KEY PLAN



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PROJECT DIRECTOR: BRENTON BEGGS

CLIENT
MELBOURNE WATER

DRAWING TITLE
PLANTING PLAN 01

ISSUE

PROJECT NO.
P0039825

SCALE
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1 2 3 4 5m

NORTH

DRAWING NO.
501-PL

REVISION

Document Set ID: 8588168
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City of Port Phillip
Advertised Document
Planning Application No. PDPL/00673/2024
No. of Pages: 407 of 418

WORK IN PROGRESS

161 GROUNDCOVERS
161 GRASSES
215 SHRUBS

189 GROUNDCOVERS
189 GRASSES
251 SHRUBS

40 GROUNDCOVERS
40 GRASSES
54 SHRUBS

26 GROUNDCOVERS
26 GRASSES
34 SHRUBS

89 GROUNDCOVERS
89 GRASSES
119 SHRUBS

292 GROUNDCOVERS
292 GRASSES
389 SHRUBS

125 GROUNDCOVERS
125 GRASSES
167 SHRUBS

191 GROUNDCOVERS
191 GRASSES
255 SHRUBS

88 GROUNDCOVERS
88 GRASSES
117 SHRUBS

190 GROUNDCOVERS
190 GRASSES
254 SHRUBS

129 GROUNDCOVERS
129 GRASSES
172 SHRUBS

196 GROUNDCOVERS
196 GRASSES
262 SHRUBS

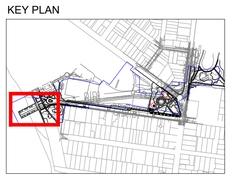
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PROJECT
ELWOOD MAIN DRAIN AUGMENTATION

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CLIENT
MELBOURNE WATER

DRAWING TITLE
PLANTING PLAN 02

ISSUE

PROJECT NO.
P0039825

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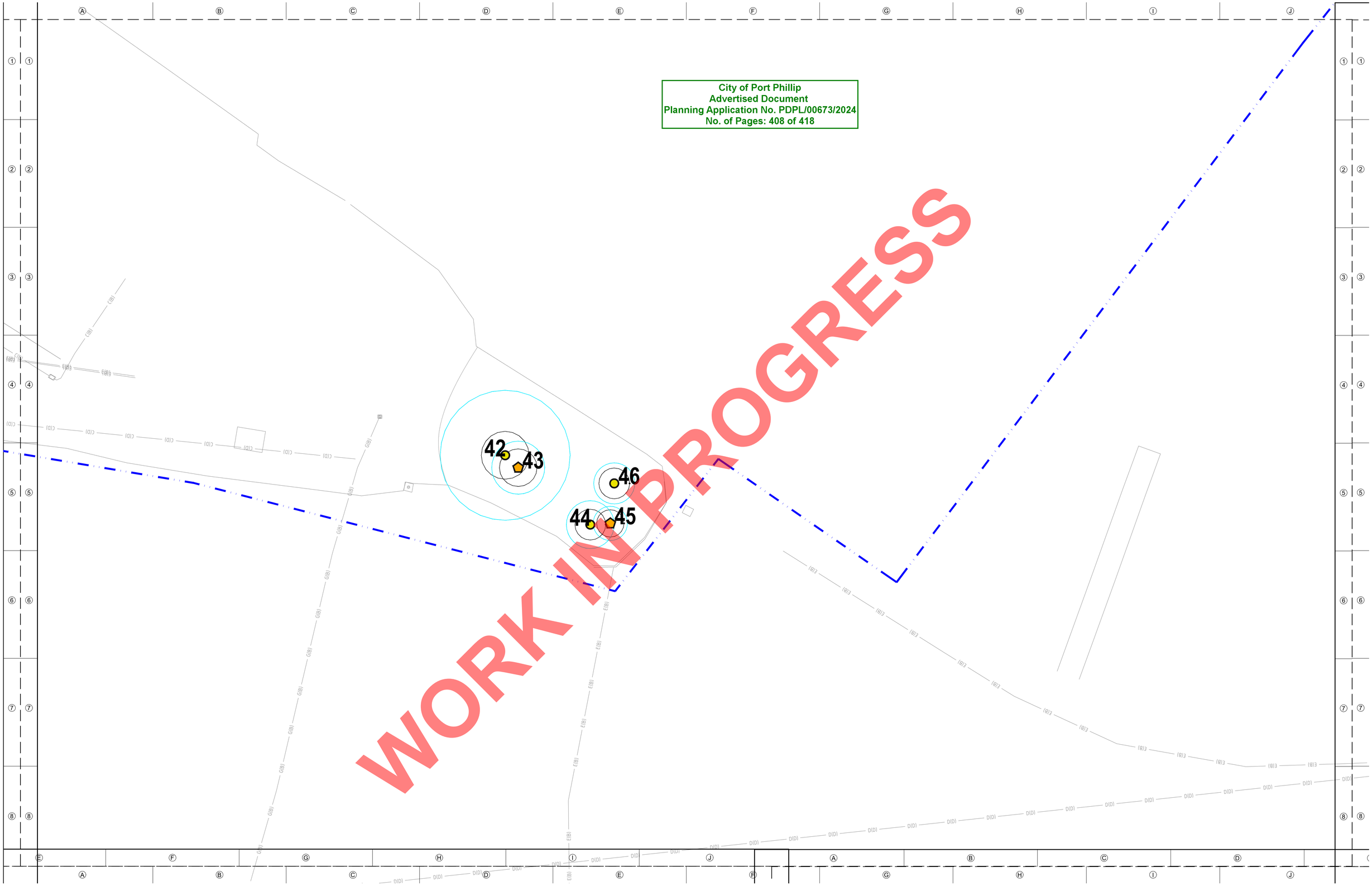
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REVISION

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Advertised Document
Planning Application No. PDPL/00673/2024
No. of Pages: 408 of 418

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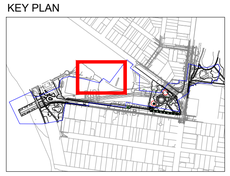
PROJECT

ELWOOD MAIN DRAIN AUGMENTATION

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PROJECT DIRECTOR: BRENTON BEGGS

CLIENT
MELBOURNE WATER
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DRAWING TITLE
PLANTING PLAN 03
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ISSUE

PROJECT NO.
P0039825

SCALE
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1 2 3 4 5m

NORTH

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503-PL

REVISION

Document Set ID: 8588168
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324 GROUNDCOVERS
324 GRASSES
432 SHRUBS

9 GROUNDCOVERS
9 GRASSES
12 SHRUBS

216 GROUNDCOVERS
216 GRASSES
288 SHRUBS

340 GROUNDCOVERS
340 GRASSES
453 SHRUBS

HEAD STREET

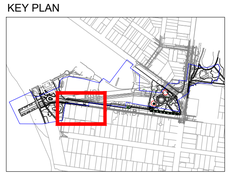
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City of Port Phillip
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Planning Application No. PDPL/00673/2024
No. of Pages: 409 of 418

PROJECT

ELWOOD MAIN DRAIN AUGMENTATION

KEY PLAN



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PROJECT DIRECTOR: BRENTON BEGGS

CLIENT
MELBOURNE WATER

ISSUE

PROJECT NO.
P0039825

SCALE
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NORTH

DRAWING TITLE
PLANTING PLAN 04

DRAWING NO.
504-PL

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No. of Pages: 410 of 418

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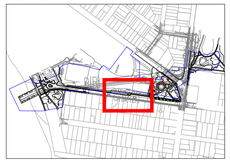
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CLIENT
MELBOURNE WATER
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DRAWING TITLE
PLANTING PLAN 05
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ISSUE

PROJECT NO.
P0039825

SCALE
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NORTH

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City of Port Phillip
Advertised Document
Planning Application No. PDPL/00673/2024
No. of Pages: 411 of 418

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PROJECT DIRECTOR: BRENTON BEGGS

CLIENT
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DRAWING TITLE
PLANTING PLAN 06
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ISSUE

PROJECT NO.
P0039825

SCALE
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NORTH

DRAWING NO.
506-PL

REVISION

Document Set ID: 8588168
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PLOT DATE: 16.10.2024
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ST KILDA STREET

770 GROUNDCOVERS
770 GRASSES
1026 SHRUBS

1316 GROUNDCOVERS
1316 GRASSES
1755 SHRUBS

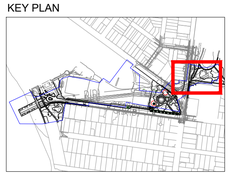
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Planning Application No. PDPL/00673/2024
No. of Pages: 412 of 418

PROJECT

ELWOOD MAIN DRAIN AUGMENTATION

KEY PLAN



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CLIENT
MELBOURNE WATER

DRAWING TITLE
PLANTING PLAN 07

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PROJECT NO.
P0039825

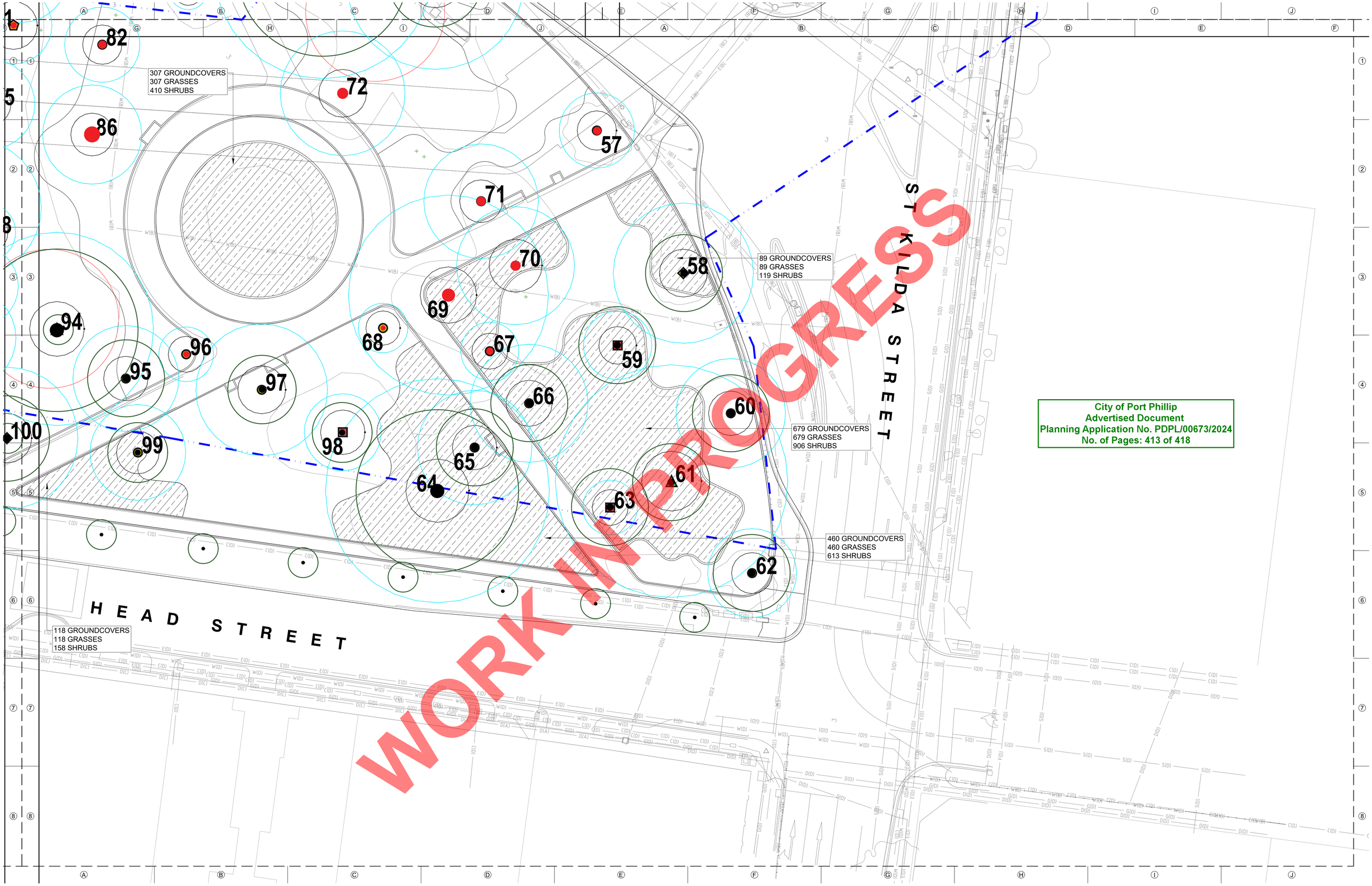
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DRAWING NO.
507-PL

REVISION

Document Set ID: 8588168
Version: 1, Version Date: 08/01/2025



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Planning Application No. PDPL/00673/2024
No. of Pages: 413 of 418

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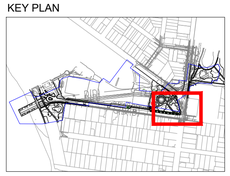
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KEY PLAN



REV	DESCRIPTION	DWN	CHK	DATE

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PROJECT DIRECTOR: BRENTON BEGGS

CLIENT
MELBOURNE WATER
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DRAWING TITLE
PLANTING PLAN 08
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ISSUE

PROJECT NO.
P0039825

SCALE
1:100 @ A1 1:200 @ A3
1 2 3 4 5m

NORTH

DRAWING NO.
508-PL

REVISION

Document Set ID: 8588168
Version: 1, Version Date: 08/01/2025

Appendix H: Tree Protection Advice

City of Port Phillip
Advertised Document
Planning Application No. PDPL/00673/2024
No. of Pages: 414 of 418

Document Set ID: 8588168
Version: 1, Version Date: 08/01/2025

Unit 4, 21 Eugene Terrace
Ringwood Victoria 3134

ABN: 95 080 021 610

T 03 9870 7700
M 0429 782 195

harry.webb@treelogic.com.au

25 September 2024

City of Port Phillip
Advertised Document
Planning Application No. PDPL/00673/2024
No. of Pages: 415 of 418

Luis Plata
Melbourne Water
990 La Trobe Street
Melbourne, 3001

RE: 013209 – Tree protection advice – Trees 55,64,94

This report is in addition to the arboricultural report prepared by Tree logic for the Melbourne Water Elster Creek & Elwood Diversion Drain project, Ref: 013209, dated 11 September 2024. The purpose is to provide tree protection recommendations for three trees (Trees 55, 64, 94) that were flagged to have major impacts from the design, but are intended to be retained.

Tree details, extracted from Appendix 1 of the arboricultural report are shown in Table 1, below.

Tree impacts and recommendations are seen in Figures 1-2. Recommendations are also outlined in the discussion below.

Table 1. Tree details.

treeid	species	comm_name	age_class	dbh_cm	hxw	health	structure	arb_rating	tpz_rad_m	srz_rad_m
55	*Ficus rubiginosa*	Port Jackson Fig	Maturing	107	13x20	Good	Fair	High	12.8	3.4
64	*Eucalyptus botryoides*	Southern Mahogany	Maturing	109	25x19	Fair	Fair	Mod.A	13.1	3.7
94	*Ficus rubiginosa*	Port Jackson Fig	Maturing	94 @1.0m	13x19	Fair	Fair	High	11.3	3.2

Tree 55:

- Major TPZ incursion was anticipated to the north (works associated with the old drain) and for the new culvert, to the south. Both of these areas of impact need to be mitigated to prevent unsustainable levels of TPZ disturbance. As seen in Figure 1:

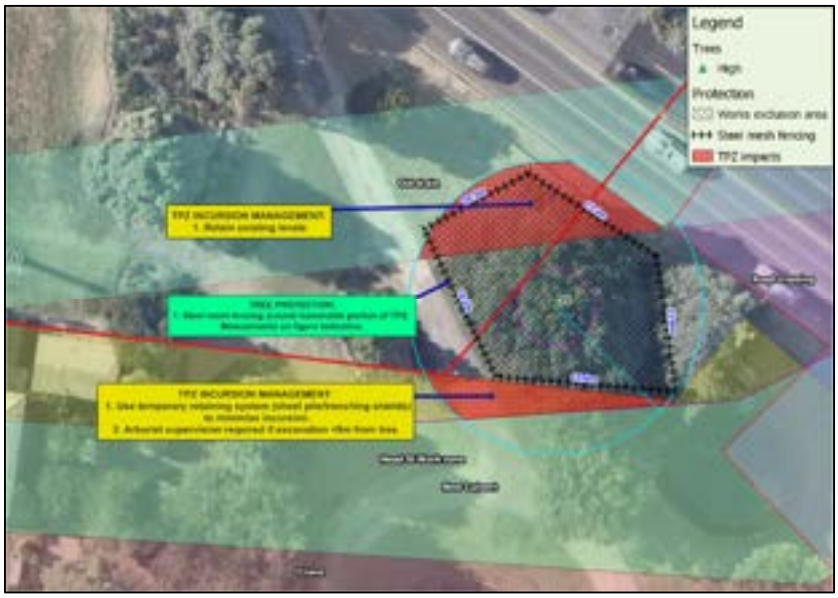


Figure 1. Impacts and actions required to preserve Tree 55.

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- Works associated with the existing drain should be avoided within the TPZ of this tree.
- Works associated with the new culvert should be modified to reduce the level of excavation within the TPZ. It is understood that adopting a temporary retaining system in this area will reduce the battering requirement, thereby diminishing the TPZ impact level (edge of works approximately 11m from tree).
- If works come to less than 9m from the tree, then arborist supervision is required so that roots in the area can be appropriately managed and documented.
- Steel mesh fencing must be established around the tree as outlined in Figure 1.

Tree 64:

- TPZ incursion is from the 'works zone', which intercepts a major portion of the tree's TPZ. Melbourne Water has indicated that this area can be excluded from works activities with steel mesh fencing. Approximate steel mesh fencing dimensions are shown in Figure 2.

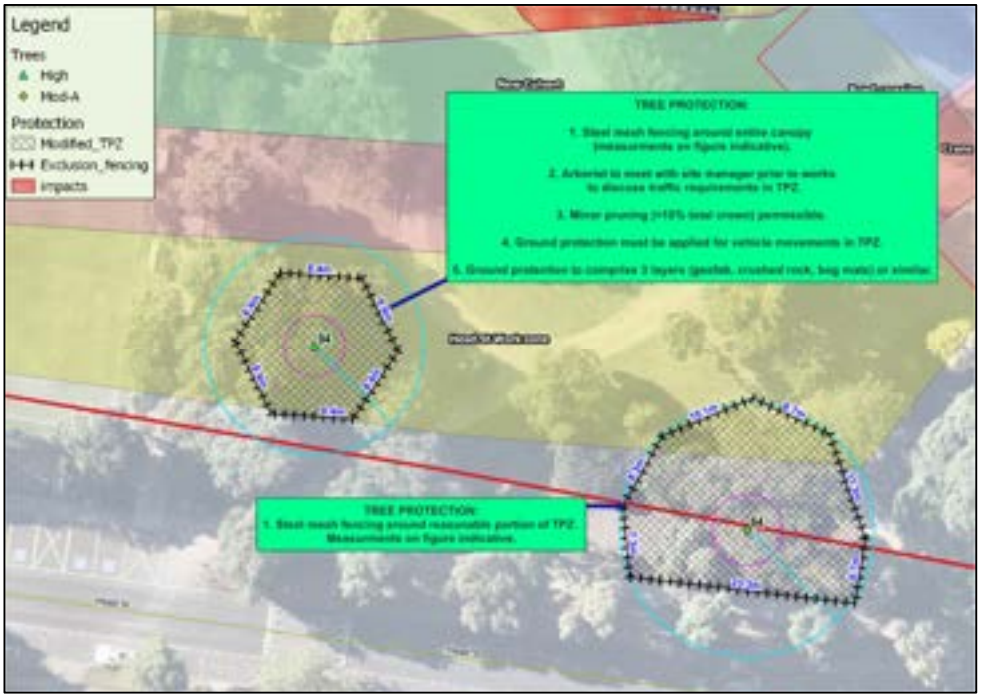


Figure 2. Actions required to preserve Trees 64 & 94.

Tree 94:

- The tree is entirely within the 'works zone' and is at high risk of TPZ impacts. Melbourne Water has indicated a willingness to protect the tree so the following is advised:
    - Establish steel protection fencing around the canopy dripline (approximate measurements shown in Figure 2).
    - Arborist to meet with site manager prior to commencement of works to discuss traffic requirements within the TPZ. The fencing may need to be modified to enable vehicle movements. Designated vehicle paths can be determined onsite between the arborist and site manager. Paths passing through the TPZ must have a ground protection system installed to protect tree roots from compaction. Ground protection is to comprise a base layer of geofabric under aggregate (40mm coarse screenings to a depth of 150mm) and a covering layer to distribute point loading (e.g. bog mats, 7mm screenings on the surface to 50mm depth, steel plates, rumble boards etc.). A

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geogrid system may be required to prevent aggregate from spreading under heavy vehicle loads. See Figures 3-4 below as ground protection examples.

- Canopy pruning requirements can also be discussed during the site meeting. In general pruning should be limited to <10% of the total live crown and must be undertaken by a suitably qualified climbing arborist prior to commencement of works. Pruning must be in accordance with AS4373 – *Pruning of Amenity trees*.



Figure 3. Example of ground protection system using geofabric, crushed rock and bog mats.



Figure 4. Example of ground protection system using geofabric, crushed rock, and finer aggregate covering layer within geohex™.

I am available to answer any questions arising from this report.

Yours Sincerely,

Harry Webb
Consultant Arborist
MSc.(Bot.) Grad. Cert. Arb.

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