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Arboricultural Assessment & Report 34-62 Clayton Road, Clayton

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May 2020

Prepared for: I & S Investments P/L



Name and address of consultant

Dean Simonsen Treemap Arboriculture PO Box 465, Heidelberg, Victoria 3084

2 Instructions

2.1 The instructions provided to Treemap Arboriculture on 20/04/20 by I & S Investments P/L were to provide an Arboricultural assessment and report for trees located on or near the subject site, the subject site being 34-62 Clayton Road, Clayton.

3 Introduction

- 3.1 The owners of the subject site are undertaking investigations to develop the property. As part of the design and application process, the owners are undertaking a review of the vegetation located on the site. This report examines the arboricultural matters associated with this vegetation.
- 3.2 Under AS4970-2009 (Australian Standard Protection of trees on development sites), the following report would be defined as a 'Preliminary assessment and arboricultural report'. The standard indicates that "This information is to be used by planners, architects and designers, in conjunction with any planning controls and other legislation, to develop the design layout in such a way that trees selected for retention are provided with enough space."

4 Key Objectives

- 4.1 To undertake a general assessment of trees located on or near the subject site.
- 4.2 To provide an assessment of the subject trees with respect to their overall condition, structure, safety and suitability for protection.
- 4.3 To provide recommendations on the suitability of the trees for protection, and provide general tree protection advice.

5 Method

- 5.1 Site and tree inspections were conducted on Tuesday 19th May, 2020.
- The tree assessment consisted of a visual inspection, which was undertaken with regard to modern arboricultural principles and practices. The assessment did not involve a detailed examination of below ground or internal tree parts. The assessment was undertaken from the ground of the subject site to determine tree condition and species type. Measurements were taken to establish trunk and crown dimensions. No tree samples or site soil samples were taken unless specified.
- 5.3 The trees have been allocated a retention value rating which combines tree condition factors with functional and aesthetic characteristics in the context of an urban landscape. The retention or preservation of trees may not depend solely on arboricultural considerations;



- therefore, the ratings may act as a guide to assist in decisions relating to tree management and retention.
- 5.4 A feature survey plan was provided by the client (Re-establishment Feature & Level Plan prepared by Breese Pitt Dixon, Reference 10360 and dated 20/03/20). The assessed trees have been numbered on this plan (Appendix 3).

6 Observations

- The site under review presented as multiple land parcels with commercial industrial facilities. The site adjoins a Melbourne Water facility to the north and east. A public reserve adjoins the southern boundary and Clayton road frontage is located to the west. The site contained sporadic plantings of mostly Australian native trees and shrubs.
- One hundred and seventeen (117) trees were assessed in detail as part of the site review. This included 67 trees on the subject site, 1 neighbouring tree, 9 street trees and 40 park trees. The detail of each individual tree assessment is provided in table format at Appendix 1. Tree numbers within the assessment table correspond to those provided on the survey plan (Appendix 3).
- 6.3 The subject site is not influenced by any specific vegetation controls under the City of Monash Council Planning Scheme. This is based on a planning property report for the land being obtained from www.planning.vic.gov.au/ on 19/05/20.
- Trees that are native to Victoria would be influenced by Clause 52.17 (Native vegetation) of the planning scheme because the site is larger than 0.4ha. This clause has specific obligations and requirements relating to indigenous trees. There are exemptions that apply under the schedule to this clause. In particular, planted native vegetation is exempt from any requirements under this clause. The clause states at 52.17-7, Table of Exemptions;

Planted vegetation, Native vegetation that is to be removed, destroyed or lopped that was either planted or grown as a result of direct seeding.

This exemption does not apply to native vegetation planted or managed with public funding for the purpose of land protection or enhancing biodiversity unless the removal, destruction or lopping of the native vegetation is in accordance with written permission of the agency (or its successor) that provided the funding.

- 6.5 Native vegetation is defined as 'Plants that are indigenous to Victoria, including trees, shrubs, herbs, and grasses' under the Definitions of the State Planning provisions Clause 72.
- 6.6 Under Section 22.05 of the local planning scheme there is a Tree Conservation Policy. The policy applies to all land and it generally seeks to preserve existing semi-mature and mature canopy trees. However, there is no permit trigger for removing trees.
- 6.7 The site contained a generally disappointing collection of shrubs and small trees, with nearly a third of recorded trees being environmental weeds.

7 Discussion

The Australian Standard (AS4970-2009) – 'Protection of trees on development sites' puts forward a process for undertaking tree inspections and reports on property where development is being considered. It recommends a preliminary assessment be undertaken to help guide planners and property owners with regard to the preservation of existing trees; that is trees that might contribute to the completed proposal. The standard points out that the preliminary report



'information is to be used by planners, architects and designers, in conjunction with any planning controls and other legislation, to develop the design layout in such a way that trees selected for retention are provided with enough space'.

These assessments typically reveal a range of trees with varying attributes for health, structure and overall value. Some trees may be considered insignificant for their size, age, species type or condition, but they might still be considered for retention because they are situated conveniently on the site. Conversely, some trees may be exceptional for various reasons but there may be no scope for their retention because of their location or other site constraints. An objective of the tree assessment is to determine the trees that may be preferable, in terms of preservation, and to identify poor or insignificant trees that might be easily replaced or replaced with better species.

The arborist must also exercise judgement and expertise with respect to the types of trees that are deemed suitable for retention, and they should also consider what stage the tree is at in its overall lifecycle.

Of the 67 trees examined on the site proper, the following 62 trees were recommended for removal for various reasons.

The following 18 trees are recognised environmental weed species and they have no retention value

• Tree 2, 5, 15, 16, 17, 19, 22, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37 & 55

The following 4 trees were in poor health or dead

• Tree 7, 23, 39 & 66

The following 40 trees have been recommended for removal on the basis of their poor health or structure and short useful life expectancy. Poor structure was the most frequent reason for recommending removal.

• Tree 3, 4, 6, 8, 9, 10, 11, 13, 14, 18, 20, 21, 24, 25, 26, 27, 38, 40, 41, 42, 43, 44, 45, 46, 48, 49, 50, 52, 53, 54, 56, 57, 59, 60, 62, 63, 64, 65, 67 & 68

There are 5 trees that could be considered for retention on the basis of their condition.

Tree 47 Eucalyptus mannifera (Brittle Gum) was assigned a Moderate retention value.

The following 4 trees were assigned a Low retention value and their retention could be considered if adequate space is provided to them and the trees receive appropriate treatment to improve their condition. This group contains mostly smaller and younger trees.

Tree 12, 51, 58 & 61

There is no obligation under the planning scheme to retain any of the aforementioned trees. A permit is not required to remove any trees.

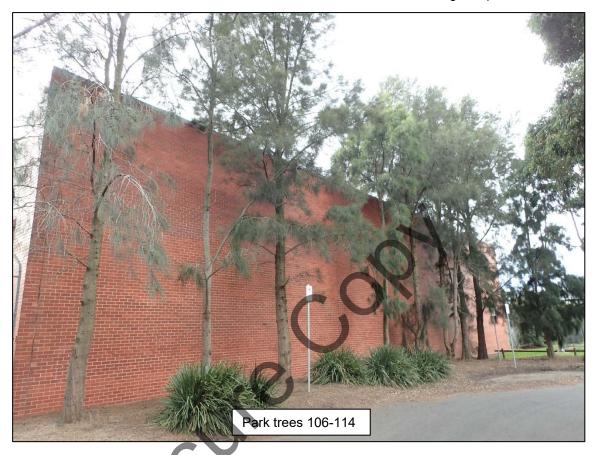
A factor that may influence development on the subject site will be the proposed design in the vicinity of neighbouring trees, park trees and the street trees.

Neighbouring tree 1 - *Eucalyptus botryoides* (Southern Mahogany) is unlikely to be influenced by any proposed design.



Street trees 69 to 77 - *Tristaniopsis laurina* (Kanooka) are small semi-mature and young trees. Some of these trees may be impacted by the proposed design.

Park trees 78-117 are located beyond the southern boundary and they consisted mainly of *Casuarina cunninghamiana* (River She-oak). The majority of trees in this group have relatively small Tree Protection Zones, which would need to be considered in the design response.



The Melbourne Water Facility to the east of the subject site contained planted clumps of trees. The average trunk dimension for these trees was 40-50cm and the trees were setback from the boundary of the subject site by more than 6m. No harm is precited to any trees on this adjoining site from any proposed development on the subject site.

There are no other tree protection matters associated with trees or shrubs on adjoining land.

7.1 Tree protection zones on development sites

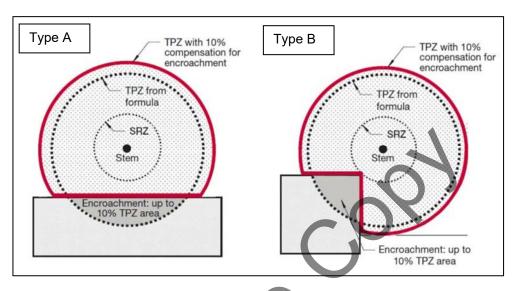
The level of encroachment and the impact to specific trees can be estimated by comparing standard or modified tree protection clearances with those clearances provided to trees in the development design (as discussed above). The overall impact towards a specific tree will be based on the severity of encroachment into the respective tree protection zones. The degree of root activity in the tree protection zone can vary significantly, which can result in more or less severe impacts to trees. The most accurate means of determining root activity in these zones is to undertake subsurface root investigations but these are often impractical. The alternative to undertaking root investigations is to assign appropriate tree protection zones.

This report adopts AS4970-2009, Australian Standard – Protection of trees on development sites as the preferred tree protection method. The method provides a tree protection zone and a tree protection fencing distance (radial measurement from trunk centre) by using the width of the



trunk at 1.4m above ground multiplied by 12. The prescribed TPZ distances are provided for each tree at Appendix 1.

There is scope to reduce the tree protection zone by an area of 10% without further investigations. The rationale for any reduced tree protection distance is detailed in AS4970-2009 (*Australian Standard – Protection of trees on development sites*). Under encroachment Type A, it is acceptable to reduce the Tree Protection Zone (TPZ) area by 10%. This translates to a reduction in radial clearance distance of approximately 33% on one side of the tree only. This can be applied if there is contiguous space around the tree for root development to occur. The following diagram, from AS4970-2009, is provided to illustrate the approach.



8 Recommendations

- 8.1 Of the 67 trees examined on the site proper, the following 62 trees were recommended for removal for various reasons.
 - 8.1.1 The following 18 trees are recognised environmental weed species and they have no retention value
 - Tree 2, 5, 15, 16, 17, 19, 22, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37 & 55
 - 8.1.2 The following 4 trees were in poor health or dead.
 - Tree 7, 23, 39 & 66
 - 8.1.3 The following 40 trees have been recommended for removal on the basis of their poor health or structure and short useful life expectancy. Poor structure was the most frequent reason for recommending removal.
 - Tree 3, 4, 6, 8, 9, 10, 11, 13, 14, 18, 20, 21, 24, 25, 26, 27, 38, 40, 41, 42, 43, 44, 45, 46, 48, 49, 50, 52, 53, 54, 56, 57, 59, 60, 62, 63, 64, 65, 67 & 68
- 8.2 There are 5 trees that could be considered for retention on the basis of their condition.
 - 8.2.1 Tree 47 Eucalyptus mannifera (Brittle Gum) was assigned a Moderate retention value.
 - 8.2.2 The following 4 trees were assigned a Low retention value and their retention could be considered if adequate space is provided to them and the trees receive appropriate



treatment to improve their condition. This group contains mostly smaller and younger trees.

- Tree 12, 51, 58 & 61
- 8.3 There is no obligation under the planning scheme to retain any of the aforementioned trees. A permit is not required to remove any trees.
- 8.4 Neighbouring tree 1 *Eucalyptus botryoides* (Southern Mahogany) is unlikely to be influenced by any proposed design.
- 8.5 Street trees 69 to 77 *Tristaniopsis laurina* (Kanooka) are small semi-mature and young trees. Some of these trees may be impacted by the proposed design.
- 8.6 Park trees 78-117 are located beyond the southern boundary and they consisted mainly of Casuarina cunninghamiana (River She-oak). The majority of trees in this group have relatively small Tree Protection Zones, which would need to be considered in the design response.
- 8.7 The Melbourne Water Facility to the east of the subject site contained planted clumps of trees. The average trunk dimension for these trees was 40-50cm and the trees were setback from the boundary of the subject site by more than 6m. No harm is precited to any trees on this adjoining site from any proposed development on the subject site.
- 8.8 Any vegetation in the study area that was not assessed as part of this report was considered insignificant, generally undesirable or sufficiently clear of any expected works.
- 8.9 Any proposed development on the site should make provision for landscaping and the planting of new trees.

Dean Simonsen (BAppSc *Melb.*) Consultant Arborist

9 References

Australian Standard AS 4970, 2009. *Protection of trees on development sites*. Standards Australia

10 Definitions

The TPZ and SRZ are defined in AS4970-2009, Australian Standard – Protection of trees on development sites as:

Tree protection zone (TPZ)

A specified area above and below ground and at a given distance from the trunk set aside for the protection of a tree's roots and crown to provide for the viability and stability of a tree to be retained where it is potentially subject to damage by development.

Structural root zone (SRZ)

The area around the base of a tree required for the tree's stability in the ground. The woody root growth and soil cohesion in this area are necessary to hold the tree upright. The SRZ is nominally circular with the trunk at its centre and is expressed by its radius in metres. This zone considers a tree's structural stability only, not the root zone required for a tree's vigour and long-term viability, which will usually be a much larger area.



11 Expertise of Arborist to prepare report

Qualifications and expertise of consultant

- Bachelor of Applied Science, Horticulture (Plant Production) University of Melbourne, Burnley College.
- Diploma of Applied Science, Horticulture (Arboriculture) University of Melbourne, Burnley College. Dux of Arboriculture.
- Twenty-eight years of experience in the arboriculture/horticulture industry (private and local government experience).
- Consultant Arborist and Director at Tree Logic Pty Ltd from June 1999 to September 2011.
- Manager of Arboriculture Royal Botanic Gardens, Melbourne (27 Months 1997-1999).
- Secretary for the Victorian Tree Industry Organisation (VTIO) 2007-2012.
- Financial member of the International Society of Arboriculture (ISA).
- Trained and licensed to use Quantified Tree Risk Assessment method (Lic No. 809).
- Presented paper at the International Society of Arboriculture Conference, 2011 at Parramatta, NSW.

Expertise to prepare report

- My qualifications and experience have primarily involved the management of tree issues in the urban landscape.
 Specifically, this has involved hazard, general or detailed assessment of tree condition on private and public land with recommendations made on preservation strategies or remedial works.
- Tree assessments to establish tree health, tree structure and arboricultural values are core components of Treemap Arboriculture's business activities.
- Prepared in excess of 2000 development reports.
- I have experience at Victorian Civil Administrative Tribunal and the magistrate's court as an expert witness on arboricultural matters.
- I have inspected and assessed well over one hundred thousand trees and managed assessment programs for at least ten times as many.



No	SPECIES	COMMON NAME	DBH (cm)	TPZ AS4970 (m)	SRZ AS4970 (m)	HxW (m)	AGE	HEALTH	STRUCTURE	FORM	ULE	COMMENT	TREE TYPE	RETENTION VALUE	RECOMMEND
1	Eucalyptus botryoides	Southern Mahogany	32	3.84	2.13	10x6	Semi-mature	Poor	Poor	Asymmetric	1 to 5 years		Victorian native	Low	Neighbour's tree
2	Hakea salicifolia	Willow-leaved Hakea	12,9,8 (17)	2.04	1.64	5x3	Semi-mature	Dead	Poor	Asymmetric	0 years	Woody weed	Australian native	None	Remove
3	Eucalyptus sp.	Gum Tree	53	6.36 8.41	2.64 2.97	5x3	Semi-mature	Fair Fair	Poor	Asymmetric	0 years	Multi stammed from base	Australian native	None	Remove
5	Eucalyptus blakelyi Melaleuca armillaris	Blakely's Red Gum Bracelet Honey-myrtle	47,43,25,15 (70.1) 23,20,15,11,10 (37.1)	4.45	2.97	14x11 7x9	Maturing Maturing	Fair	Poor Very poor	Symmetric Asymmetric	5 to 15 years 0 years	Multi-stemmed from base Collapsing, Woody weed	Victorian native Victorian native	Low None	Remove Remove
6	Photinia serratifolia	Chinese Hawthorn	20,20,20,15,15 (40.6)	4.87	2.36	9x9	Maturing	Fair	Poor	Asymmetric	5 to 15 years	Condpanie, Weday Weda	Exotic evergreen	Low	Remove
7	Acmena smithii	Lilly Pilly	25,21,20,15 (41.1)	4.93	2.37	9x5	Maturing	Poor	Poor	Minor asymmetry	1 to 5 years	In decline	Victorian native	Low	Remove
8	Acmena smithii	Lilly Pilly	41	4.92	2.37	10x7	Maturing	Fair	Fair to Poor	Minor asymmetry	15 to 30 years		Victorian native	Low	Remove
9	Acmena smithii	Lilly Pilly	20,19,16 (31.9)	3.83	2.13	10x6	Maturing	Fair	Poor	Minor asymmetry	5 to 15 years		Victorian native	Low	Remove
10	Acmena smithii Acmena smithii	Lilly Pilly Lilly Pilly	14,10 (17.2) 34,26 (42.8)	2.06 5.14	1.64 2.41	9x5 12x6	Semi-mature Maturing	Fair Fair	Fair to Poor Poor	Minor asymmetry Minor asymmetry	5 to 15 years 5 to 15 years	Bifurcation of main stem with included bark	Victorian native Victorian native	Low	Remove Remove
12	Acmena smithii	Lilly Pilly	21	2.52	1.79	11x5	Semi-mature	Fair	Fair to Poor	Minor asymmetry	15 to 30 years	Blidication of main stem with included bark	Victorian native	Low	Could be retained
13	Acmena smithii	Lilly Pilly	21,20,18 (34.1)	4.09	2.19	8x5	Semi-mature	Fair	Poor	Minor asymmetry	5 to 15 years		Victorian native	Low	Remove
14	Betula pendula 'Youngii'	Weeping Silver Birch	16	2.00	1.60	5x6	Semi-mature	Fair to Poor	Fair to Poor	Asymmetric	5 to 15 years		Exotic deciduous	Low	Remove
15	Melaleuca armillaris	Bracelet Honey-myrtle	15,15,15,15,15 (33.5)	4.02	2.18	5x7	Maturing	Fair	Very poor	Stump re-sprout	0 years	Woody weed	Victorian native	None	Remove
16	Pittosporum undulatum	Sweet Pittosporum	15	2.00	1.55 1.55	5x4	Semi-mature	Fair	Fair	Symmetric	0 years	Woody weed	Victorian native	None	Remove
17 18	Pittosporum undulatum Melaleuca linariifolia	Sweet Pittosporum Snow in Summer	15 65	2.00 7.80	2.87	5x4 7x8	Semi-mature Maturing	Fair Fair to Poor	Fair Poor	Symmetric Symmetric	0 years 5 to 15 years	Woody weed	Victorian native Australian native	None Low	Remove Remove
19	Pittosporum undulatum	Sweet Pittosporum	32,25,22,20 (50.3)	6.04	2.58	10x10	Maturing	Fair	Fair to Poor	Symmetric	0 years	Woody weed	Victorian native	None	Remove
20	Callistemon viminalis	Weeping Bottlebrush	20	2.40	1.75	3x4	Maturing	Fair	Poor	Asymmetric	1 to 5 years	,	Australian native	Low	Remove
21	Callistemon viminalis	Weeping Bottlebrush	19	2.28	1.71	5x4	Maturing	Fair	Poor	Asymmetric	1 to 5 years		Australian native	Low	Remove
22	Pittosporum undulatum	Sweet Pittosporum	20,20,20 (34.6)	4.15	2.21	7x7	Maturing	Fair	Poor	Minor asymmetry	0 years	Woody weed	Victorian native	None	Remove
23 24	Melaleuca bracteata 'Revolution Gold' Melaleuca bracteata	Black Tea-Tree Black Tea-tree	20 27,24,21 (41.8)	2.40 5.02	1.75 2.39	4x4 8x8	Semi-mature Maturing	Poor Fair to Poor	Poor Poor	Minor asymmetry Minor asymmetry	1 to 5 years 5 to 15 years		Australian native Australian native	None Low	Remove Remove
25	Eucalyptus sp.	Gum Tree	15	2.00	1.55	5x3	Maturing	Fair	Very poor	Stump re-sprout	0 years		Australian native	None	Remove
26	Eucalyptus sp.	Gum Tree	10,9,7 (15.2)	2.00	1.56	5x3	Maturing	Fair	Very poor	Stump re-sprout	0 years		Australian native	None	Remove
27	Melaleuca styphelioides	Prickly-leaved Paperbark	36	4.32	2.24	10x6	Semi-mature	Fair	Poor	Minor asymmetry	1 to 5 years		Australian native	Low	Remove
28	Hakea salicifolia	Willow-leaved Hakea	25	3.00	1.92	5x5	Maturing	Fair	Poor	Asymmetric	0 years	Woody weed	Australian native	None	Remove
29 30	Hakea salicifolia Hakea salicifolia	Willow-leaved Hakea Willow-leaved Hakea	20 15	2.40 2.00	1.75 1.55	5x4 3x2	Maturing Semi-mature	Fair Poor	Poor Poor	Asymmetric Asymmetric	0 years 0 years	Woody weed Woody weed	Australian native Australian native	None None	Remove Remove
31	Pittosporum undulatum	Sweet Pittosporum	20	2.40	1.75	5x5	Semi-mature	Fair	Poor	Asymmetric	0 years	Woody weed Woody weed	Victorian native	None	Remove
32	Hakea salicifolia	Willow-leaved Hakea	15	2.00	1.55	3x3	Semi-mature	Poor	Poor	Asymmetric	0 years	Woody weed	Australian native	None	Remove
33	Hakea salicifolia	Willow-leaved Hakea	15,15,15 (26)	3.12	1.96	5x6	Maturing	Fair to Poor	Poor	Asymmetric	0 years	Woody weed	Australian native	None	Remove
34	Hakea salicifolia	Willow-leaved Hakea	15	2.00	1.55	3x3	Maturing	Poor	Poor	Asymmetric	0 years	Woody weed	Australian native	None	Remove
35 36	Hakea salicifolia Hakea salicifolia	Willow-leaved Hakea Willow-leaved Hakea	20	2.40 2.40	1.75 1.75	3x5 4x4	Maturing Maturing	Poor	Poor	/ Asymmetric	0 years 0 years	Woody wood	Australian native Australian native	None None	Remove Remove
37	Hakea salicifolia	Willow-leaved Hakea	15	2.40	1.75	4x4 4x3	Maturing	Poor	Poor	Asymmetric Asymmetric	0 years	Woody weed Woody weed	Australian native	None	Remove
38	Callistemon 'Harkness'	Harkness Bottlebrush	15,14,11 (23.3)	2.80	1.87	4x6	Maturing	Fair	Poor	Asymmetric	1 to 5 years	Collapsing	Australian native	Low	Remove
39	Callistemon salignus	Willow Bottlebrush	21,17,15,10 (32.5)	3.90	2.15	6x5	Maturing	Poor	Poor	Asymmetric	0 years	- 1 3	Australian native	None	Remove
40	Callistemon viminalis	Weeping Bottlebrush	15,10 (18)	2.16	1.68	3x5	Maturing	Fair	Poor	Major asymmetry	0 years		Australian native	None	Remove
41	Callistemon 'Kings Park Special'	King's Park Special Bottlebrush	25	3.00 2.00	1.92	5x5	Maturing	Fair to Poor	Poor Faints Base	Minor asymmetry	1 to 5 years		Australian native	Low	Remove
42	Callistemon viminalis Callistemon 'Kings Park Special'	Weeping Bottlebrush King's Park Special Bottlebrush	15 30	3.60	1.55 2.08	5x5 5x7	Maturing Maturing	Fair Fair to Poor	Fair to Poor Poor	Minor asymmetry Minor asymmetry	1 to 5 years 1 to 5 years		Australian native Australian native	Low	Remove Remove
44	Callistemon viminalis	Weeping Bottlebrush	15	2.00	1.55	3x4	Maturing	Fair	Poor	Minor asymmetry	1 to 5 years		Australian native	Low	Remove
45	Callistemon salignus	Willow Bottlebrush	24,15,10 (30)	3.60	2.08	8x5	Maturing	Fair to Poor	Poor	Minor asymmetry	1 to 5 years		Australian native	Low	Remove
46	Callistemon viminalis	Weeping Bottlebrush	15	2.00	1.55	5x5	Maturing	Fair	Fair to Poor	Minor asymmetry	1 to 5 years		Australian native	Low	Remove
47 48	Eucalyptus mannifera Callistemon salignus	Brittle Gum Willow Bottlebrush	92,35 (98.4) 15	11.81 2.00	3.42 1.55	16x19 5x4	Maturing Semi-mature	Fair Fair to Poor	Fair Fair to Poor	Minor asymmetry Asymmetric	15 to 30 years 5 to 15 years		Victorian native Australian native	Moderate Low	Could be retained Remove
49	Acacia mearnsii	Late Black Wattle	18	2.16	1.68	8x5	Semi-mature		Fair to Poor	Asymmetric	5 to 15 years		Victorian native	Low	Remove
50	Callistemon salignus	Willow Bottlebrush	18,15 (23.4)	2.81	1.87	5x4	Semi-mature	Fair to Poor	Poor	Asymmetric	5 to 15 years		Australian native	Low	Remove
51	Eucalyptus nicholii	Narrow-leaved Peppermint	54	6.48	2.66	16x11	Maturing	Fair	Fair	Asymmetric	15 to 30 years		Australian native	Low	Could be retained
52	Photinia serratifolia	Chinese Hawthorn	25	3.00 10.08	1.92	5x5	Semi-mature	Fair	Fair to Poor	Asymmetric	5 to 15 years	Davidia a mina d	Exotic evergreen	Low	Remove
53 54	Eucalyptus nicholii Callistemon 'Kings Park Special'	Narrow-leaved Peppermint King's Park Special Bottlebrush	84 21	2.52	3.20 1.79	16x14 4x4	Maturing Maturing	Fair Fair	Poor Poor	Major asymmetry Asymmetric	5 to 15 years 5 to 15 years	Powerline pruned	Australian native Australian native	Low	Remove Remove
55	Melaleuca armillaris	Bracelet Honey-myrtle	50	6.00	2.57	7x9	Maturing	Fair	Poor	Major asymmetry	0 years	Collapsing, Woody weed	Victorian native	None	Remove
56	Callistemon 'Kings Park Special'	King's Park Special Bottlebrush	27	3.24	1.99	5x4	Maturing	Fair to Poor	Poor	Asymmetric	1 to 5 years		Australian native	Low	Remove
57	Melaleuca styphelioides	Prickly-leaved Paperbark	30,30 (42.4)	5.09	2.40	11x8	Maturing	Fair	Poor	Asymmetric	1 to 5 years		Australian native	Low	Remove
58	Cupressus sempervirens 'Swanes Golden'	Swane's Golden Pencil Pine	25	3.00 2.00	1.92 1.50	8x2 3x2	Semi-mature Semi-mature	Fair Fair	Fair Fair to Poor	Symmetric	15 to 30 years		Exotic conifer Exotic conifer	Low	Could be retained Remove
59 60	Juniperus scopulorum 'Skyrocket' Syzygium paniculatum	Skyrocket Juniper Magenta Cherry	11 15,15,12,12 (27.2)	3.26	1.99	6x6	Semi-mature	Fair	Poor	Symmetric Symmetric	5 to 15 years 5 to 15 years		Australian native	Low Low	Remove
61	Howea forsteriana	Sentry Palm	24	2.88	1.89	4x3	Maturing	Fair	Fair	Symmetric	15 to 30 years		Native Palm	Low	Could be retained
62	Viburnum tinus	Lauristine	15	2.00	1.55	3x3	Maturing	Fair	Fair to Poor	Minor asymmetry	5 to 15 years		Exotic evergreen	Low	Remove
63	Pittosporum tenuifolium	Kohuhu	15	2.00	1.55	7x5	Maturing	Fair	Fair to Poor	Minor asymmetry	5 to 15 years		Exotic evergreen	Low	Remove
64 65	Photinia serratifolia	Chinese Hawthorn Bookleaf Cypress	29 15	3.48 2.00	2.05 1.55	5x7 3x2	Maturing Maturing	Fair Fair	Fair to Poor Fair to Poor	Asymmetric Symmetric	5 to 15 years 5 to 15 years		Exotic evergreen Exotic conifer	Low Low	Remove Remove
66	Platycladus orientalis Eriobotrya japonica	Loquat	15	2.00	1.55	4x3	Maturing	Poor	Poor	Asymmetric	0 years		Exotic coniler Exotic evergreen	None	Remove
67	Citrus sp.	Citrus Tree	15	2.00	1.55	3x3	Maturing	Fair to Poor	Fair to Poor	Symmetric	5 to 15 years		Exotic evergreen	Low	Remove
68	Casuarina cunninghamiana	River She-oak	11	2.00	1.50	9x2	Semi-mature	Fair	Fair	Symmetric	30 to 50 years		Australian native	Low	Remove
69	Tristaniopsis laurina	Kanooka	15 1	2.00	1.55	3x2	Semi-mature	Fair	Fair	Symmetric	15 to 30 years		Australian native	Low	Street tree
70 71	Tristaniopsis laurina Tristaniopsis laurina	Kanooka Kanooka	1 1	2.00	1.50 1.50	1x1 1x1	Young Young	Fair Fair	Fair Fair	Symmetric Symmetric	15 to 30 years 15 to 30 years		Australian native Australian native	Low Low	Street tree Street tree
72	Tristaniopsis laurina	Kanooka	9	2.00	1.50	2x1	Semi-mature	Fair	Fair	Symmetric	15 to 30 years		Australian native	Low	Street tree
73	Tristaniopsis laurina	Kanooka	5	2.00	1.50	2x1	Semi-mature	Fair	Fair	Symmetric	15 to 30 years		Australian native	Low	Street tree
74	Tristaniopsis laurina	Kanooka	20	2.40	1.75	4x3	Semi-mature	Fair	Fair	Symmetric	15 to 30 years		Australian native	Low	Street tree
75	Tristaniopsis laurina	Kanooka	15	2.00	1.55	3x3	Semi-mature	Fair	Poor	Symmetric	5 to 15 years		Australian native	Low	Street tree
76 77	Tristaniopsis laurina Tristaniopsis laurina	Kanooka Kanooka	15 8	2.00 2.00	1.55 1.50	3x3 3x3	Semi-mature Semi-mature	Fair Fair	<u>Fair</u> Fair	Symmetric Symmetric	15 to 30 years 15 to 30 years		Australian native Australian native	Low Low	Street tree Street tree
78	Casuarina cunninghamiana	River She-oak	11,11 (15.6)	2.00	1.58	6x3	Semi-mature	Fair	Poor	Symmetric	15 to 30 years		Australian native	Low	Park tree
79	Casuarina cunninghamiana	River She-oak	31	3.72	2.11	12x6	Semi-mature	Fair	Fair	Symmetric	15 to 30 years		Australian native	Low	Park tree
80	Casuarina cunninghamiana	River She-oak	29	3.48	2.05	14x7	Semi-mature	Fair	Fair	Symmetric	15 to 30 years		Australian native	Low	Park tree
81	Casuarina cunninghamiana	River She ook	39	4.68	2.32	14x7	Semi-mature	Fair	Fair	Symmetric	15 to 30 years		Australian native	Low	Park tree
82 83	Casuarina cunninghamiana Casuarina cunninghamiana	River She-oak River She-oak	26 31	3.12 3.72	1.96 2.11	12x7 12x7	Semi-mature Semi-mature	Fair Fair	Fair Fair	Symmetric Symmetric	15 to 30 years 15 to 30 years		Australian native Australian native	Low Low	Park tree Park tree
84	Casuarina cunninghamiana Casuarina cunninghamiana	River She-oak River She-oak	25	3.00	1.92	12x7 11x6	Semi-mature	Fair	Fair	Symmetric	15 to 30 years		Australian native	Low	Park tree
85	Casuarina cunninghamiana	River She-oak	22	2.64	1.82	10x4	Semi-mature	Fair	Fair	Symmetric	15 to 30 years		Australian native	Low	Park tree
86	Casuarina cunninghamiana	River She-oak	29	3.48	2.05	10x5	Semi-mature	Fair	Fair	Symmetric	15 to 30 years		Australian native	Low	Park tree
87	Eucalyptus camaldulensis	River Red Gum	32	3.84	2.13	9x10	Semi-mature	Fair	Fair to Poor	Major asymmetry	15 to 30 years		Victorian native	Low	Park tree
88 89	Casuarina cunninghamiana Casuarina cunninghamiana	River She-oak River She-oak	18 24	2.16 2.88	1.68 1.89	11x5 13x5	Semi-mature Semi-mature	Fair Fair	<u>Fair</u> Fair	Symmetric Symmetric	15 to 30 years 15 to 30 years		Australian native Australian native	Low Low	Park tree Park tree
90	Casuarina cunningnamiana Casuarina cunninghamiana	River Sne-oak River She-oak	29	3.48	2.05	13X5 14X7	Semi-mature Semi-mature	Fair	Fair Fair	Symmetric	15 to 30 years		Australian native	Low	Park tree Park tree
91	Casuarina cunninghamiana	River She-oak	24	2.88	1.89	13x6	Semi-mature	Fair	Fair	Symmetric	15 to 30 years		Australian native	Low	Park tree
92	Casuarina cunninghamiana	River She-oak	24	2.88	1.89	12x5	Semi-mature	Fair	Fair	Symmetric	15 to 30 years		Australian native	Low	Park tree
93	Casuarina cunninghamiana	River She-oak	21	2.52	1.79	12x5	Semi-mature	Fair	Fair	Symmetric	15 to 30 years		Australian native	Low	Park tree

Tree Assessment Detail - 34-62 Clayton Road, Clayton May 2020 Appendix 1

No	SPECIES	COMMON NAME	DBH (cm)	TPZ AS4970 (m)	SRZ AS4970 (m)	HxW (m)	AGE	HEALTH	STRUCTURE	FORM	ULE	COMMENT TREE TYPE	RETENTION	RECOMMEND
			` '	` ,	` ,	` ,							VALUE	
94	Casuarina cunninghamiana	River She-oak	29	3.48	2.05	10x6	Semi-mature	Fair	Fair	Symmetric	15 to 30 years	Australian native	Low	Park tree
95	Casuarina cunninghamiana	River She-oak	29	3.48	2.05	12x5	Semi-mature	Fair	Fair	Symmetric	15 to 30 years	Australian native	Low	Park tree
96	Casuarina cunninghamiana	River She-oak	24	2.88	1.89	12x5	Semi-mature	Fair	Fair	Symmetric	15 to 30 years	Australian native	Low	Park tree
97	Casuarina cunninghamiana	River She-oak	24	2.88	1.89	11x6	Semi-mature	Fair	Fair	Symmetric	15 to 30 years	Australian native	Low	Park tree
98	Casuarina cunninghamiana	River She-oak	22	2.64	1.82	11x5	Semi-mature	Fair	Fair	Symmetric	15 to 30 years	Australian native	Low	Park tree
99	Casuarina cunninghamiana	River She-oak	19	2.28	1.71	10x5	Semi-mature	Fair	Fair	Symmetric	15 to 30 years	Australian native	Low	Park tree
100	Casuarina cunninghamiana	River She-oak	23	2.76	1.86	9x5	Semi-mature	Fair	Fair	Symmetric	15 to 30 years	Australian native	Low	Park tree
101	Casuarina cunninghamiana	River She-oak	21	2.52	1.79	9x5	Semi-mature	Fair	Fair	Symmetric	15 to 30 years	Australian native	Low	Park tree
102	Casuarina cunninghamiana	River She-oak	30	3.60	2.08	12x5	Semi-mature	Fair	Fair	Symmetric	15 to 30 years	Australian native	Low	Park tree
103	Casuarina cunninghamiana	River She-oak	30	3.60	2.08	12x5	Semi-mature	Fair	Fair	Symmetric	15 to 30 years	Australian native	Low	Park tree
104	Casuarina cunninghamiana	River She-oak	36	4.32	2.24	12x6	Semi-mature	Fair	Fair	Symmetric	15 to 30 years	Australian native	Low	Park tree
105	Casuarina cunninghamiana	River She-oak	35	4.20	2.22	12x6	Semi-mature	Fair	Fair	Symmetric	15 to 30 years	Australian native	Low	Park tree
106	Casuarina cunninghamiana	River She-oak	32	3.84	2.13	12x6	Semi-mature	Fair	Fair	Symmetric	15 to 30 years	Australian native	Low	Park tree
107	Casuarina cunninghamiana	River She-oak	22	2.64	1.82	12x6	Semi-mature	Fair	Fair	Symmetric	15 to 30 years	Australian native	Low	Park tree
108	Casuarina cunninghamiana	River She-oak	38	4.56	2.29	15x7	Semi-mature	Fair	Fair	Symmetric	15 to 30 years	Australian native	Low	Park tree
109	Casuarina cunninghamiana	River She-oak	24	2.88	1.89	13x5	Semi-mature	Fair	Fair	Symmetric	15 to 30 years	Australian native	Low	Park tree
110	Casuarina cunninghamiana	River She-oak	36	4.32	2.24	15x6	Semi-mature	Fair	Fair	Symmetric	15 to 30 years	Australian native	Low	Park tree
111	Casuarina cunninghamiana	River She-oak	27,20 (33.6)	4.03	2.18	13x6	Semi-mature	Fair	Fair	Symmetric	15 to 30 years	Australian native	Low	Park tree
112	Casuarina cunninghamiana	River She-oak	36	4.32	2.24	15x8	Semi-mature	Fair	Fair	Symmetric	15 to 30 years	Australian native	Low	Park tree
113	Casuarina cunninghamiana	River She-oak	43	5.16	2.42	15x8	Semi-mature	Fair	Fair	Symmetric	15 to 30 years	Australian native	Low	Park tree
114	Casuarina cunninghamiana	River She-oak	29	3.48	2.05	12x6	Semi-mature	Fair	Fair	Symmetric	15 to 30 years	Australian native	Low	Park tree
115	Eucalyptus camaldulensis	River Red Gum	24	2.88	1.89	8x10	Semi-mature	Fair	Fair	Minor asymmetry	15 to 30 years	Victorian native	Low	Park tree
116	Eucalyptus camaldulensis	River Red Gum	27,19 (33)	3.96	2.16	10x9	Semi-mature	Fair	Fair	Minor asymmetry	15 to 30 years	Victorian native	Low	Park tree
117	Eucalyptus camaldulensis	River Red Gum	29	3.48	2.05	6x10	Semi-mature	Fair	Poor	Major asymmetry	15 to 30 years	Victorian native	Low	Park tree



Appendix 2 Descriptors (Version C - 2013)

Field name		Descriptio	n									
No.		Tree identification number. Unique numbers are assigned to each assessed individual tree or tree group.										
Species		Identifies the tree using the international taxonomic classification system of binomial (or trinomial) nomenclature (genus, species, variety and cultivar).										
Common Name						ral litaratura	More than one					
Common Name		Provides the common name as occurs in current Australian horticultural literature. More than one common name can exist for a single tree species, or several species can share the same common										
DDI (D)		name.										
DBH (Diameter a	at	Indicates the trunk diameter (expressed in centimetres) of an individual tree usually measured at										
breast height)		1.4m above the existing ground level. Multiple stemmed trees are calculated using a formula to combine the stems into a single stem for tree protection zone calculations.										
TPZ (Tree protection		Tree protection zone expressed as a radial distance in metres, measured from trunk centre.										
zone)		Based on AS 4970										
TPZr (Tree protection		Reduced tree protection zone expressed as a radial distance in metres measured from trunk centre and justified according to a standard (Usually AS4970) or other method.										
zone reduced)	/idth\						a whole metres					
HxW (Height x W	/iatn)	indicates n	eignt and widt	h of single tree and meas	surement generally	expressed in	n whole metres					
Age		Description	n									
Young		Sapling tree and/or recently planted										
Semi-mature		Tree rapidly increasing in size and yet to achieve expected size in situation										
Maturing		Specimen approaching expected size in situation, with reduced incremental growth										
Over-mature		Tree is senescent and in decline										
Health		Term assig	ned that provi	des a broad description of	of the health and vig	our of the tr	ee.					
<u>Ratings</u>	(Good	Fair	Fair to Poor	Poor V	ery poor	Dead					
Structure		Term assigned that provides a broad description of the structure and stability of the tree.										
<u>Ratings</u>	(Good	Fair	Fair to Poor	Poor V	ery poor	Failed					
Form		Description										
Symmetric		Evenly balanced crown										
Asymmetric		Crown biased in one direction; can be minor or major										
Stump re-sprout		Adventitious shoots originating from stump or trunk										
Manipulated		Hedge, poll	ard, topiary, w	indrow; managed for spec	ific landscape use o	aesthetic o	utcome					
Comment		Additional (comments that	t provide specific detail o	n the condition of th	e tree or ma	nagement					
Comment		requiremen		t provide specific detail of	True condition of th	C ti CC Oi iiic	magement					
Tree type		Descriptio	n									
Indigenous		Occurs naturally in the area or region of the subject site										
Victorian native		Occurs naturally within some part of Victoria (not exclusively) but is not indigenous										
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										
Palm		Woody monocotyledon										
Other		Other descriptions as indicated										
			<u> </u>									
Retention value			rating provide ent decisions.	d on tree based on asses	ssment factors. Pro	vided as a g	guide for					
Ratings			ligh	Moderate	Low		None					
			J									

Descriptors reviewed annually and subject to change

Consider

removal

Remove

Recommended action based on condition of the tree with reference to proposed site changes

Street tree

Neighbour's

Tree

Transplant

Already

removed

Recommend

Responses

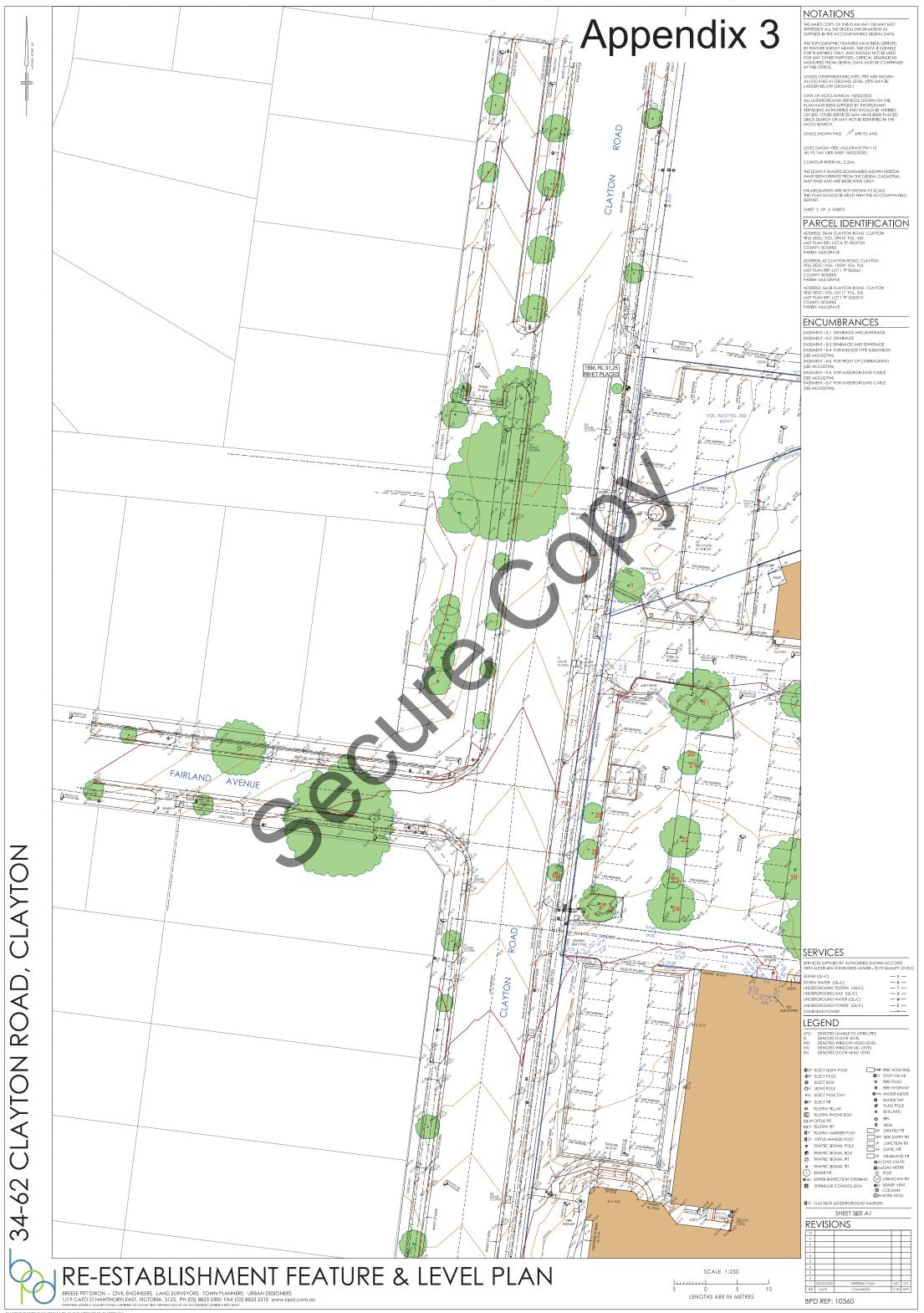
Retain

Could be

retained

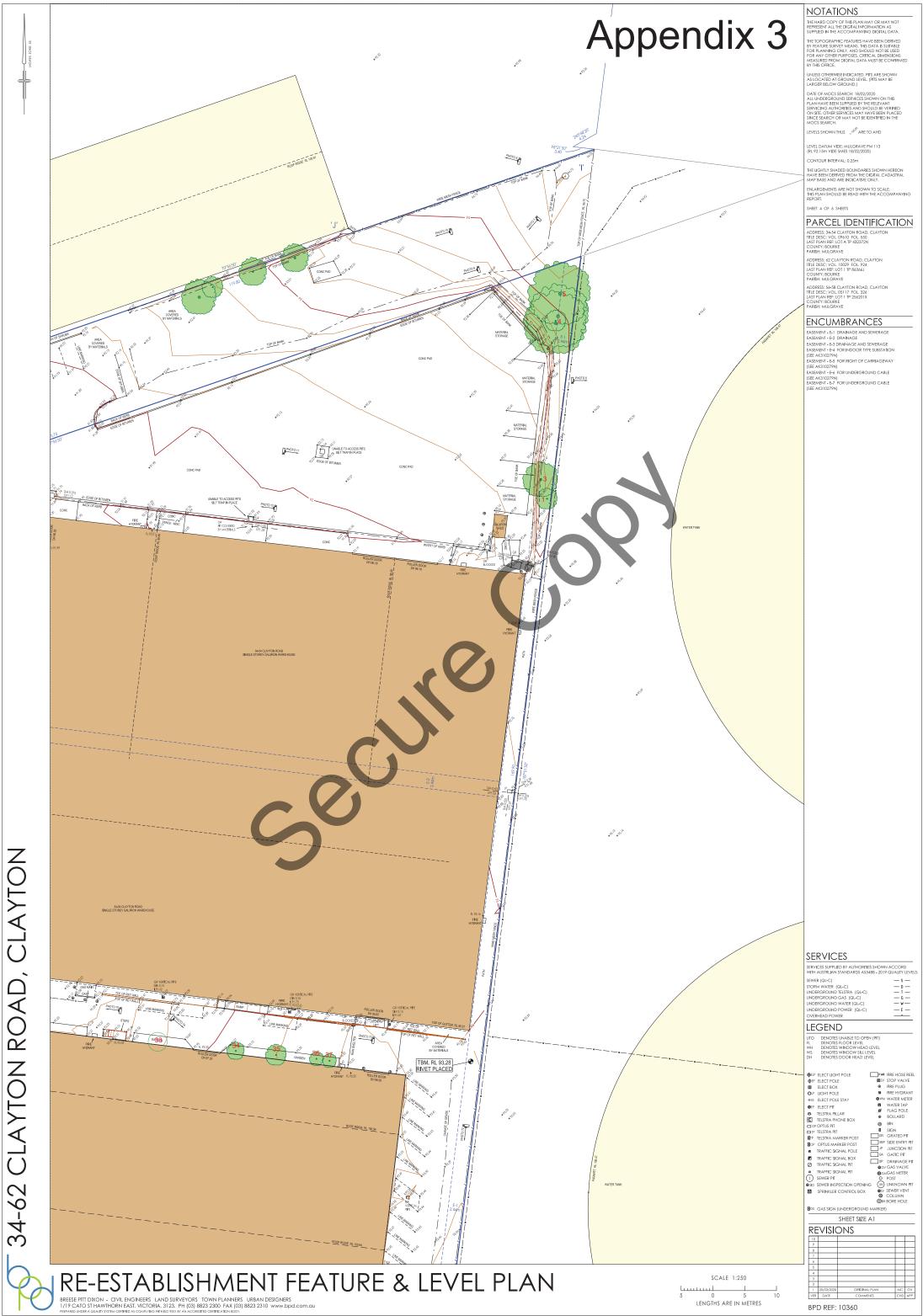


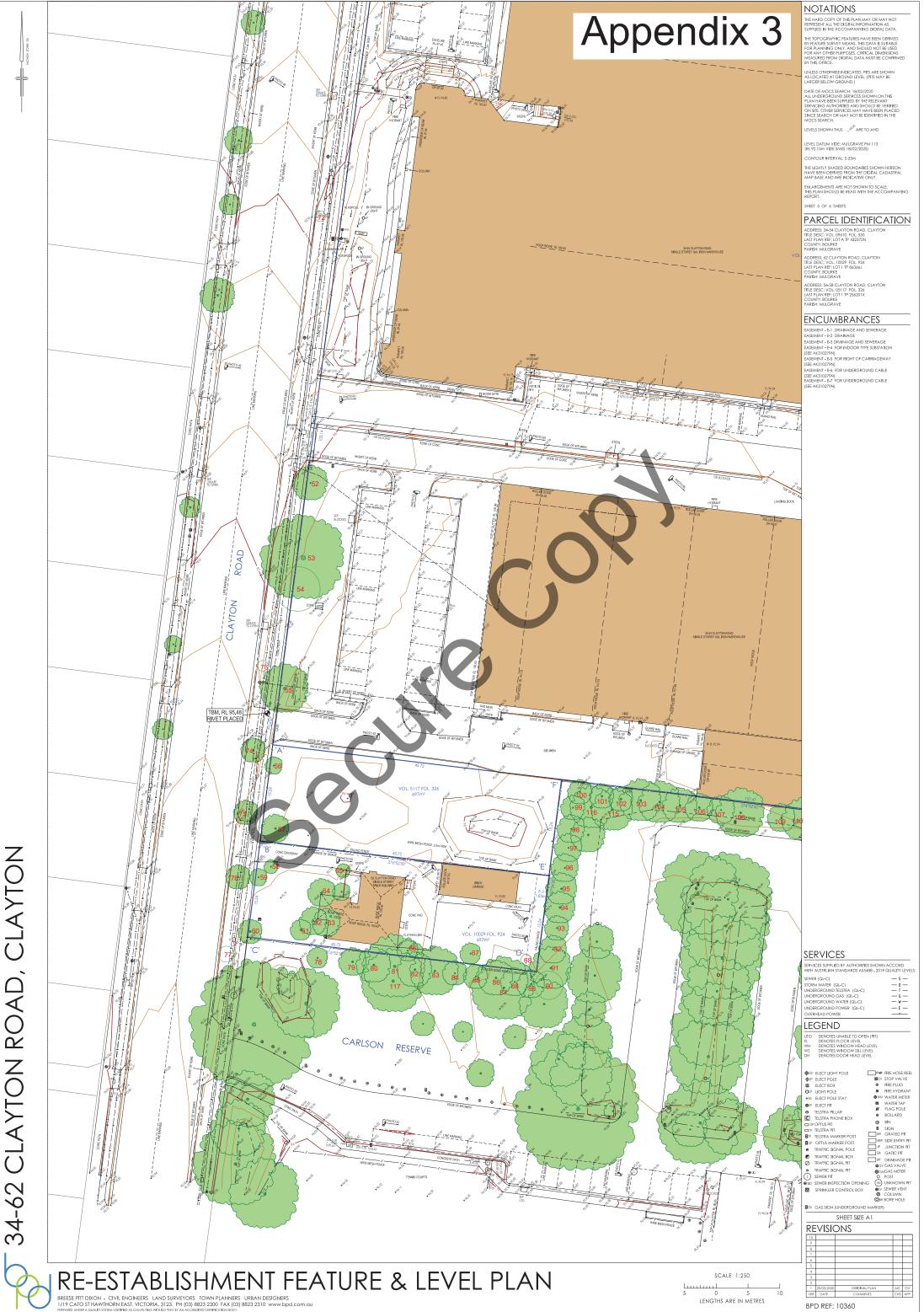
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SERVICES SUPPLIED BY AUTHORITIES SHOWN ACCORD
WITH AUSTRIJAN STANDARDS ASSA88 - 2019 QUALITY LEVEL

NOTATIONS

BPD REF: 10360

0 5 LENGTHS ARE IN METRES

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