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REPORT

Arboricultural Impact Assessment

PREPARED FOR

LANDCOM
Lot 1 DP153167, Lot 6 DP1031236,
Lot 200 DP1288388.

REDLEAF
Mitchell Highway, Redmond Way
& Lone Pine Avenue
Orange NSW 2800

13th November 2025
Version 12

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1. EXECUTIVE SUMMARY

1.0.1 An Arboricultural Impact Assessment (AIA) prepared by McArdle Arboricultural Consultancy Pty Ltd, was commissioned for LANDCOM at Orange to determine the potential impacts of a proposal development on trees. The assessment provides recommendations to minimise the impacts on trees where viable.

1.0.2 The proposed residential subdivision at REDLEAF- Mitchell Highway, Redmond Place and Lone Pine Avenue Orange NSW 2800, which involves the construction of a residential masterplan community.

1.0.3 The assessment was conducted on the 26th, 27th and 28th of March 2025 and 4^{th-5th} November 2025 revised, by Jim AQF 5 Arborist Dip. Arb (Ryde) and Morena McArdle AQF 5 Dip. Arb (Ryde).

1.0.4 Four hundred and seventy (470) tree groups (consisting of 566 individual trees) were assessed on site, neighbouring properties and within the public domain.

Table 1: Summary of Tree Management Plan based on Retention Values.

Remove 28 (33 Individual trees)			
High -	Moderate 3	Low 18 (20 individuals)	Very Low 7 (10 Individuals)
-	22, 24, 27.	10, 11, 12, 13, 14, 15, 17, 23, 28, 29, 30, 423(x2), 424(x2), 426, 427, 428. Dead: 420. Exempt species: 422.	8, 9. Dead: 227a, 228a, 230a, 359, 376, 398, 421, 425,
Retain 442 (533 individual trees)			
High 13 trees	Moderate 319 (321 individual trees)	Low 96 (181 Individuals)	Very Low 14 (18 Individuals)
89, 90, 92, 96, 97, 98, 126, 127, 128, 129, 149, 186, 439.	34, 35, 36, 42, 43, 44, 45, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 59, 60, 62, 63, 64, 65, 66, 67, 68, 74, 76, 77, 78, 79, 80, 86, 87, 88, 91, 94, 95, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 130, 131, 132, 134, 135, 136, 137, 139, 140, 142, 143, 148, 152, 153, 154, 156, 157, 159, 160, 161, 162, 163, 164, 166, 167, 168a, 168b, 170, 171, 172, 173, 174, 175, 176, 178, 179, 180, 181, 182, 183, 184, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 240, 241, 242, 243, 244, 245, 246, 247, 248, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 274, 275, 276, 278, 280, 281, 282, 283, 285, 286, 287, 288, 289, 291, 292, 293, 294, 295, 296, 298, 299, 300, 301, 302, 303, 304, 306, 307, 308, 309, 310, 311, 312, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 355, 356, 358, 361, 362, 363, 365, 366, 367, 368, 369, 370, 372, 373, 374, 375, 377, 378, 383, 384, 387, 388, 389, 390, 393, 394, 395, 397, 400, 402, 403, 404, 405, 406, 407, 408, 410, 411, 412, 414, 415, 416, 417, 418, 429, 431, 433, 440, 441, 444, 445, 446, 447, 450, 451, 452, 454, 463, 465, 466, 467, 468.	1, 2, 3, 4, 5, 6, 7, 16, 18, 19, 20, 21, 25, 26,, 31, 32, 33, 37, 38, 39, 40, 46, 57, 58, 69(x2), 70(x2), 71, 72, 73(x2), 75, 81, 82, 83, 84, 85(x7), 93(x7), 99(x5), 133, 138, 141, 144, 145, 148a(x2), 148b(x6), 150(x4), 151, 153a, 155, 155a, 158, 165, 168(x3), 169, 169b, 177(x7), 185, 187, 239, 249, 250, 250a, 273, 277, 279, 284, 290, 297, 305, 313, 332, 354, 357, 360, 364, 371, 380, 381, 382, 385, 386, 391(x6), 392, 399, 401, 409, 414a, 419, 430, 432, 434, 435, 437, 438, 442, 443, 449, 453, 458, 461, 464, 469, 470(x38).	41, 61, 146, 147, 155b(x3), 169a, 379, 396, 413, 436, 448, 455, 457, 462. Exempt species: 459, 460.

1.0.5 Twenty-three (23) replacement plantings are required, in 45L volume pots, after construction, to compensate for the tree removals.

Table 2: Proposed Mitigation Measures.

Tree Protection Measures	
Fence protection	360, 463-465.
Sensitive Construction Measures	
Cut fill excavations – Non-Destructive Digging (NDD)	229-231, 237-238, 401-403, 405-407, 417-418.
Sewer and water line -adjust alignment to avoid TPZ.	455, 456, 457, 458, 459, 460, 462.
Proposed playground area	326-327.
Proposed footpath kerb and gutter	32-36, 360.

2. INTRODUCTION

2.1 Aims

2.1.1 To evaluate the condition of trees, their value for retention and identify any potential effects of the proposed development. To provide feasible alternatives to mitigate detrimental effects on trees and provide suggestions for the management and protection of the trees throughout the development process.

2.1.2 To designate and preserve Tree Protection Zones (TPZ) for trees proposed for retention, to maintain their vitality and ensure that the tree protection measures are compliant throughout the duration of works.

2.2 Scope

2.2.1 An Arboricultural Impact Assessment (AIA) was commissioned for LANDCOM at Redmond Place Orange NSW 2800, which involves the residential subdivision of three lots, Lot 1, Lot 6 and Lot 200.

2.2.2 The assessment was conducted by Jim McArdle, a licensed and registered AQF Level 5 arborist. He holds a B.Ed. (Science) from ACU and a Dip. of Arboriculture (Ryde), qualified in Tree Risk Assessment (TRA) and Quantified Tree Risk Assessment (QTRA). He currently serves as President with the Tree Contractors Association of Australia (TCAA) and is a member with Arboriculture Australia. He is author of *Arborist in Australia* (TCAA Australian Series 2025,) and a regular contributor to *Arbor Age Magazine* (2022–2025).

2.2.3 The Visual Tree Assessment (VTA) does not include below ground root excavation and no expert laboratory analyses - including internal diagnostics, inaccessible trunk and aerial inspections – were conducted. No pathology tests or soil analyses were conducted. Sketches, diagrams, graphs and photographs in this report, being intended as visual aids, are not necessarily to scale.

2.2.4 There is no additional tree-related documentation provided by the client, our analysis is based solely on our observations which include post-site research and comparisons of similar sites.

2.3. Methodology

2.3.1 The inspection was primarily conducted using ground-based collection of data to identify visible signs of tree health, structure and potential hazards. Collection data methods may include a mallet for sound test, trowel, screwdriver for compaction and probing cavities to identify pathogens pests and disease. The assessments do not involve laboratory analysis and include the following methods.

2.3.2 **Visual Tree Assessment (VTA)** (Mattheck and Breloer 1996) is a method assessing for biological and lower-level mechanical functions and signs of decay, damage or defects (Appendix A).

2.3.3 **Tree Useful Life Expectancy (TULE)** (Barrell 2001, adapted with permission for TCAA 2014) determines the time a tree can be expected to be usefully retained in normal circumstance. **Long TULE** is >40 years; **Medium TULE** is 15-40 years; **Short TULE** is 5-15 years; **No retention potential** is 0-5 years; **Remove** next 5 years; **Move or Replace** and **small, young, regularly clipped** (Appendix B).

2.3.4 **Tree AZ Categories** (Barrell 2019) classifies importance of trees on development sites, (Appendix B). **Category A:** suitable for retention and **Category Z:** not worthy of constraint (Appendix C).

2.3.5 **Retention Value Rating** (Morton 2011) determined by considering both TULE and the Landscape Significance. **High** Retention are a priority for retention. **Moderate** Retention are retained where possible. **Low** Retention are generally not a constraint to development and **Very Low** Retention may have potential hazards (Appendix C).

2.3.6 **Landscape Significance Rating** (Morton 1996) rates trees as **Significant** – based on heritage or ecological value. **Very high** – based on adjacent area surrounding the site. **High** - neighbourhood status but may have some conditions or health issues. **Moderate** - Good and Worthy of Preservation, may have minor health issues. **Low** - Worthy of Preservation, may have major conditions or health issues. **Very low** - Retain if possible and **Insignificant** - Exempt from retention (Appendix D).

2.3.7 **Planting Specifications from NATSPEC** (Clark 2003) and Australian Standard ® AS 2303-2018 Tree Stock for Landscape Use. (Appendix E).

2.3.8 Tree management and protection during development is in accordance with **Australian Standard ® AS 4970 (2025) Protection of Trees on Development Sites**.

2.3.9 Pruning of Amenity Trees is in accordance with **Australian Standards ®AS 4373 (2007)**

2.3.10 Photos with GPS waypoints were captured using the SOLOCATOR app. An iPhone 16 is used for taking the photos and these were not digitally altered.

3. SITE ANALYSIS

3.1 The Site

- 3.1.1 The land has a moderate decline from North to South.
- 3.1.2 The subsoil texture in this region consists of silty clay and the topsoil texture is silty loam. (eSpade soils 2025)
- 3.1.3 The weather in Orange, NSW experiences light to moderate winds year-round, with slightly stronger gusts during winter and spring. Prevailing winds typically come from the west and northwest

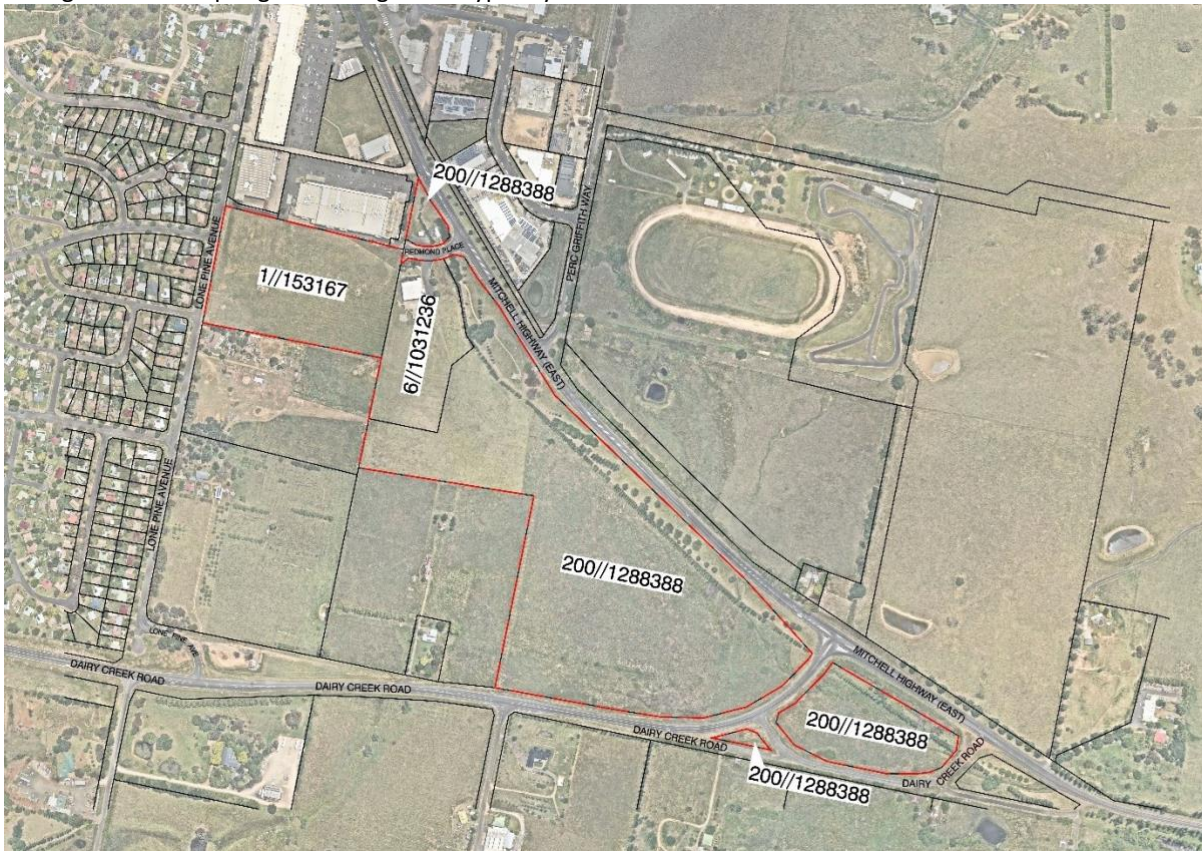


Figure 1: Aerial map of 3 Redmonde Place, 5255 Mitchell Highway, 154 Lone Pine Street and Brabham. Red line and shading indicate boundary. (Nearmaps 2025)

3.2 Legislation And Significance In The Environment

3.2.1 Commonwealth legislation regulates the **Biosecurity Act 2015**, (diseases and pests) and **Environmental Protection & Biodiversity Conservation Act 1999 (EPBC Act)** manages nationally significant species, ecological communities, and habitat protection.

3.2.2 The **NSW Biodiversity Conservation Act 2016 (BC Act)** repealed the **NSW Threatened Species Conservation Act, 1995** however, there are transitional arrangements in place between the two pieces of legislation.

3.2.3 The **NSW Environmental Planning and Assessment Act 1979 (EP&A Act)** provides the legislative framework. The **Department of Planning, Housing and Infrastructure** is responsible for establishing the framework for **Environmental Planning Instruments (EPI)**, which include **Local Environmental Plans (LEP)** and **Development Control Plans (DCP)**. **Local Government Areas (LGA)** are responsible for implementing these instruments. Tree protection is managed through **Tree Preservation Orders (TPO)**, which are part of the EPIs. The **LEP** sets zoning and tree protection rules, while the **DCP** provides guidelines to manage trees during development.

3.2.4 **State Environmental Planning Policy (SEPP) (Biodiversity and Conservation) 2021** focuses protecting biodiversity, conserving natural areas, and managing sustainable development in sensitive environments and takes precedence over a Council's **LEP** and **DCP**.

3.2.5 **State Environmental Planning Policy (SEPP) (Transport and Infrastructure) 2021** focuses on the planning and development of transport and infrastructure projects in New South Wales, ensuring they align with sustainable growth, environmental protection, and community needs.

3.2.6 The **10/50 Vegetation Clearing Code** under the **NSW Rural Fires Act 1997** allows tree removal within 10 metres and shrub clearing within 50 metres of homes in **bushfire-prone areas** to reduce bushfire risk (NSW RFS 2025).

3.2.7 Trees are regulated under Orange City Council, DCP 2004 and LEP 2011, and applies to trees defined as a woody plant with a self-supporting stem, 5 meters or more in height, or with a trunk diameter of 150mm or more at ground level. (Orange City Council 2025).

3.2.8 According to NSW Planning Portal 2025:

- a) The Local Aboriginal Land Council is ORANGE.
- b) Land zoning is RE1: Public Recreation, SP2: Infrastructure, R1: General Residential.
- c) Bushfire Prone Land (NON-EPI) is classified as Category 3 and Vegetation Buffer.
- d) Heritage values are present on neighbouring site (Orange City Council LEP 2011).
- e) This site is part of a the 10/50 Clearing Code. (NSW RFS 2025).

3.3 Planning Control Maps



Figure 2: Land Zoning SP2, R1.



Figure 3: Heritage values are present on neighbouring site



Figure 6: Bushfire Prone Land (NON-EPI) classified Category3.

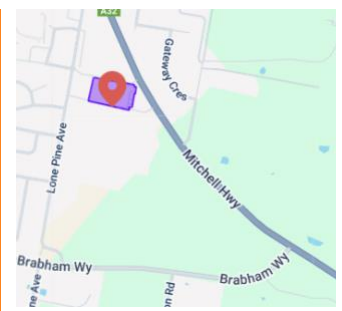


Figure 7: The site is part of a 10/50 clearing code area

4. RESULTS

4.1 Tree Schedule

Table 3: Tree Schedule - Health and Structural Condition of Trees.

(* DBH- Diameter Breast Height, DRC- Diameter Root Collar. * TPZ- Tree Protection Zone. SRZ- Structural Root Zone. * A-Z & TULE-Tree Useful Life Expectancy. Palm's TPZ extends 1m beyond the fronds.

Tree No	Location	Scientific Name Common Name	AGE years	Crown (m)	Height (m)	DBH* DRC (cm)	TPZ* (m)	SRZ* (m)	Visual Tree Assessment (VTA) – Tree Health & Condition	TULE* A-Z	Retention Value
1	DS03 Neighbour Lone Pine Rd	<i>Populus deltoides</i> Cottonwood Poplar	25	4	10	20/14/10 30	3.1	2.0	Semi-mature with damage on the stem from cattle grazing or livestock.	2D Z3	Low
2	DS03 Lone Pine Rd	<i>Populus deltoides</i> Cottonwood Poplar	25	2	10	20 20	2.4	1.7	Immature with physical damage on the stem a scar at base to 1 metre	4C Z3	Low
3	Homemaker driveway DS03	<i>Callistemonj viminalis</i> Red Bottlebrush	10	5	5	10x5 20	2.6	1.7	Immature in moderated condition multileader present.	2D A2	Low
4		<i>Callistemonj viminalis</i> Red Bottlebrush	10	4	5	10x3 25	2.0	1.9	Immature with three leaders.	2D A2	Low
5		<i>Callistemonj viminalis</i> Red Bottlebrush	10	4	5	10/10/10/ 25	2.0	1.9	Immature, heavy pruning at 12metres height. Moderate condition.	2D A2	Low
6		<i>Callistemonj viminalis</i> Red Bottlebrush	4	1	3.5	15 15	2.0	1.5	Juvenile good condition	1A A2	Low
7		<i>Callistemonj viminalis</i> Red Bottlebrush	5	3	3.5	10/10 12	2.0	1.5	Juvenile good condition and poor development.	2A	Low
8	Garden- Near Electricity box	<i>Pyrus Ussuriens</i> Ornamental pear	25	7	6	20/20/30 30	4.0	2.0	Semi mature, collapsed tree branches and fractured unions with broken branches,	5C Z7	Very low
9	Gardens near metal building DS04	<i>Pyrus Ussuriens</i> Ornamental pear	30	10	9	30/20/15/15 40	4.0	2.3	Semi mature broken branches fungal fruiting body at three metres, fractured unions	4C Z7	Very Low
10		<i>Hamamelis virginiana</i> Witch Hazel	25	4	5	10/10/10 20	2.0	1.7	Immature good condition and poor development.	2A A2	Low
11		<i>Hamamelis virginiana</i> Witch Hazel	5	3	4	10 20	2.0	1.7	Immature in good condition with multiple stems.	2A A2	Low
12		<i>Hamamelis virginiana</i> Witch Hazel	25	4	6	10/10/10 30	2.0	2.0	Immature in good condition.	2A A2	Low
13		<i>Hamamelis virginiana</i> Witch Hazel	15	3	5	10/10/10 25	2.0	1.7	Immature in good condition.	2A A2	Low
14		<i>Crataegus crus-galli</i> Hawthorn	15	6	6	10x6 30	2.9	2.0	Semi-mature with decay on the branches and around the base. Fruiting berries.	2A A2	Low
15	Gardens near metal building DS04	<i>Hamamelis virginiana</i> Witch Hazel	15	6	6	10/10/10 30	2.0	2.0	Semi-mature in good condition.	2A A2	Low
16		<i>Hamamelis virginiana</i> Witch Hazel	15	4	6	10x5 20	2.6	1.7	Immature in good condition.	2A A2	Low
17		<i>Prunus spp.</i> Plum	15	6	7	10/10/10/ 20	2.0	1.7	Immature in good condition.	2D A2	Low
18	Along Pathway	<i>Hamamelis virginiana</i> Witch Hazel	15	2	5	10/5 12	2.0	1.5	Immature in good condition	2A A2	Low
19	Along Pathway DS04	<i>Hamamelis virginiana</i> Witch Hazel	15	6	6	10x4 25	2.4	1.9	Immature in good condition.	2A A2	Low
20		<i>Hamamelis virginiana</i> Witch Hazel	15	4	7	10x5 20	2.6	1.7	Immature in good condition	2A A2	Low

Tree No	Location	Scientific Name Common Name	AGE years	Crown (m)	Height (m)	DBH* DRC (cm)	TPZ* (m)	SRZ* (m)	Visual Tree Assessment (VTA) – Tree Health & Condition	TULE* A-Z	Retention Value
21	1.2m off concrete path	<i>Acer beuegerianum</i> Trident Maple	8	3	6	10x3 15	2.0	1.5	Immature in moderate condition, with algae on stem.	2D A2	Low
22	Adjacent building DS04	<i>Betula pendula</i> Silver Birch	20	6	14	25/25 33	4.2	2.1	Semi-mature moderate condition and triple leaders.	2A A2	Moderate
23		<i>Betula pendula</i> Silver Birch	20	4	8	14 20	2.0	1.7	Immature in good condition, kink at 1metre from base.	2A A2	Low
24		<i>Betula pendula</i> Silver Birch	20	7	14	15/12/8 27	2.5	1.9	Immature in good condition	2A A2	Moderate
25		<i>Betula pendula</i> Silver Birch	20	6	14	17 22	2.0	1.8	Immature in good condition	2A A2	Low
26		<i>Betula pendula</i> Silver Birch	20	4	7	10/5 18	2.0	1.8	Immature lean to the north in moderate condition.	2A A2	Low
27	1.2m off gravel path	<i>Betula pendula</i> Silver Birch	20	7	16	15/20 28	3.0	1.9	Semi-mature moderate condition and lean to the north	2A A2	Moderate
28	DS04	<i>Pittosporum undulatum</i> Pittosporum	15	6	6	10x3 30	2.0	2.0	Immature in good condition	2A A2	Low
29	Adjacent building entrance DS04	<i>Pittosporum undulatum</i> Pittosporum	15	5	6	10/10/15 26	2.2	1.9	Immature in good condition	2A A2	Low
30		<i>Pittosporum undulatum</i> Pittosporum	15	6	6	15/10/10/15 30	3.0	2.0	Immature in good condition	2A A2	Low
31	DS03 Corner neighbour off Lone Pine Ave	<i>Prunus spp.</i> Ornamental Plum	15	3	4	10/10 15	2.0	1.5	Stock damage from browsing and compaction.	3D A2	Low
32	Opposite Metal Building carpark DS04	<i>Ulmus spp.</i> Elm	40	7	8	25/25 30	4.2	2.0	Semi-mature good condition but poorly developed, unbalanced to the south	2A A2	Low
33		<i>Ulmus spp.</i> Elm	10	4	7	10 10	2.0	2.0	Immature with unbalanced canopy and suppressed canopy	2D A2	Low
34		<i>Cupressus arizonica</i> Arizona cypress	40	10	14	40/28 50	5.9	2.5	Semi-mature good condition but poor development, hard surface impacts 50%-CARPARK	2D A2	Moderate
35		<i>Cupressus arizonica</i> Arizona cypress	40	10	14	37 40	4.4	2.3	Semi-mature with exudation, moderate condition and hard surface impacts of 50%.	2D A2	Moderate
36		<i>Cupressus arizonica</i> Arizona cypress	40	9	12	32 44	3.8	2.3	Semi-mature with the lean, damage to base of stem and unbalanced canopy.	2D A2	Moderate
37	Access carpark adjacent kerb	<i>Ulmus glabra</i> Wych Elm	15	3	6	10x6 25	2.0	1.9	Immature in good condition hard surface gutter	2A A2	Low
38	Access carpark adjacent kerb DS04	<i>Ulmus glabra</i> Wych Elm	10	3	6	10x5 20	2.0	1.7	Immature in good condition	2A A2	Low
39		<i>Ulmus glabra</i> Wych Elm	15	4	5	10x4 20	2.0	1.7	Immature in good condition	2A A2	Low
40		<i>Ulmus glabra</i> Wych Elm	10	2	5	10x4 20	2.0	1.7	Immature in good condition	2A A2	Low
41	Corner of Public Building	<i>Acacia baileyana</i> Cootamundra wattle	40	N3S8 E3W7	11	25/20/15/10 40	4.4	2.3	Mature unbalanced canopy to the southwest, Phellinus sp fungi fruiting body at 2.5metres south.	4C Z7	Very Low
42		<i>Acacia baileyana</i> Cootamundra wattle	40	10	12	24/20/22/18 40	5.2	2.3	Mature and moderate condition.	3A A2	Moderate

Tree No	Location	Scientific Name Common Name	AGE years	Crown (m)	Height (m)	DBH* DRC (cm)	TPZ* (m)	SRZ* (m)	Visual Tree Assessment (VTA) – Tree Health & Condition	TULE* A-Z	Retention Value
43	Beside footpath near Colah	<i>Populus nigra</i> Lombardy Poplar	40	8	20	40 43	4.8	2.3	Mature multiple epicormics in moderate condition with poor development.	2A A2	Moderate
44		<i>Populus nigra</i> Lombardy Poplar	40	3	17	30 34	3.6	2.1	Mature in good condition with poor development.	2D A2	Moderate
45	Beside footpath near Colah	<i>Populus nigra</i> Lombardy Poplar	40	4	17	30 40	3.6	2.3	Mature in good condition with poor development.	2D A2	Moderate
46	columnar hedge between Colah and public toilets DS04	<i>Populus nigra</i> Lombardy Poplar	35	3	8	29 32	3.5	2.1	Mature, decay on stem, poor condition and 50%dehydrated.	3D Z3	Low
47		<i>Populus nigra</i> Lombardy Poplar	35	3	16	26 32	3.6	2.1	Mature with 10% dehydration and gravel path adjacent.	2D A2	Moderate
48		<i>Populus nigra</i> Lombardy Poplar	35	3	16	27/10 32	3.5	2.1	Mature in poor condition and decay on old stubs.	2D A2	Moderate
49		<i>Populus nigra</i> Lombardy Poplar	35	4	18	30 32	4.6	2.1	Mature moderate condition with root damage and epicormic growth.	3A A2	Moderate
50		<i>Populus nigra</i> Lombardy Poplar	35	4	16	30 32	3.6	2.1	Mature moderate condition epicormics at base and damage to roots on west side.	3A A2	Moderate
51	columnar hedge North of amenities DS04	<i>Populus nigra</i> Lombardy Poplar	40	4	16	30 45	3.6	2.4	Mature moderate condition epicormics at base and damage to roots on west side.	3A A2	Moderate
52		<i>Populus nigra</i> Lombardy Poplar	35	3	16	25 32	3.0	2.1	Mature moderate condition epicormics at base and damage to roots on west side.	3A A2	Moderate
53		<i>Populus nigra</i> Lombardy Poplar	35	3	16	25 32	3.0	2.1	Mature moderate condition epicormics at base and damage to roots on west side.	3A A2	Moderate
54		<i>Populus nigra</i> Lombardy Poplar	35	5	21	30 35	3.6	2.1	Mature moderate condition epicormics at base and damage to roots on west side.	3A A2	Moderate
55		<i>Populus nigra</i> Lombardy Poplar	30	3	13	25 25	3.0	1.9	Mature moderate condition epicormics at base and damage to roots on west side.	3A A2	Moderate
56		<i>Populus nigra</i> Lombardy Poplar	30	4	20	26 30	3.1	2.0	Mature moderate condition epicormics at base and damage to roots on west side.	3A A2	Moderate
57	Northeast	<i>Populus nigra</i> Lombardy Poplar	30	3	16	24 28	2.9	1.9	Mature good condition with poor development. Algae on stem.	2A A2	Low
58	columnar hedge Northeast of amenities DS04	<i>Populus nigra</i> Lombardy Poplar	30	3	16	26 28	3.1	1.9	Mature good condition with poor development. Algae on stem.	3A A2	Low
59		<i>Populus nigra</i> Lombardy Poplar	30	3	16	30 37	3.6	2.2	Mature good condition with poor development. Root damage.	2D A2	Moderate
60		<i>Populus nigra</i> Lombardy Poplar	20	3	7	28 34	3.4	2.1	Mature in moderate condition	2D A2	Moderate
61		<i>Populus nigra</i> Lombardy Poplar	30	3	14	25 28	3.0	1.9	Mature with lean to south damage to roots lift on the west side.	4C Z3	Very Low
62		<i>Populus nigra</i> Lombardy Poplar	30	3	14	25 34	3.0	2.1	Mature in good condition with poor development	2D A2	Moderate
63		<i>Populus nigra</i> Lombardy Poplar	30	3	15	25 33	3.0	2.1	Mature in good condition with poor development	2D A2	Moderate
64		<i>Populus nigra</i> Lombardy Poplar	40	4	16	43 50	5.2	2.5	Mature in good condition with poor development	2D A2	Moderate
65	Adjacent Mitchell Highway	<i>Brachychiton populous</i> Kurrajong	50	N6S6 E7W8	18	65 70	7.8	2.9	Mature in good condition with poor development. Lean to east and algae on stem. Insect attack on leaves.	2D A2	Moderate

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66	DS04	<i>Brachychiton populnus</i> Kurrajong	<u>50</u>	12	16	60 70	7.2	2.9	Mature in good condition with poor development with insect attack on leaves.	3A A2	Moderate
67		<i>Platanus acerifolius</i> Plane tree	45	16	20	40 48	4.8	2.4	Semi mature and in good condition.	3D A2	Moderate
68		<i>Platanus acerifolius</i> Plane tree	45	16	18	60 60	7.2	2.7	Semi mature and in good condition.	2A A2	Moderate
69x2	Rear of Homemaker Centre West of Rest area. DS04	<i>Gleditsia tricanthois</i> Pseudo acacia	10	6	7	25 25	3.0	1.9	Immature in good condition.	2A A2	Low
70x2		<i>Callistemon viminalis</i> Red Bottlebrush	10	6	6	10x3 20	2.0	1.7	Immature and in good condition.	2A A2	Low
71		<i>Callistemon viminalis</i> Red Bottlebrush	15	6	6	10x3 20	2.0	1.7	Immature and in good condition.	2A A2	Low
72		<i>Acer negundo</i> Box Elder	25	6	8	25 25	3.0	1.9	Immature and in moderate condition.	2A A2	Low
73 X2		<i>Callistemon viminalis</i> Red Bottlebrush	25	6	6	10/10 20	2.0	1.7	Immature and in moderate condition.	2A A2	Low
74		<i>Acer negundo</i> Box Elder	30	N6S6 E6W6	13	25 30	3.0	2.0	Mature in moderate condition, (Deciduous).	2A A2	Moderate
75		<i>Callistemon viminalis</i> Red Bottlebrush	8	5	6	10x3 25	2.0	1.7	Immature with moderate condition and unbalanced canopy.	2D A2	Low
76	West of Redmonde Pl Adj Mitchell Hw	<i>Liquidambar styraciflau</i> Sweetgum Liquidamber	20	8	12	38 40	4.6	2.3	Semi mature algae on stem and in moderate condition.	2D A2	Moderate
77		<i>Quercus palustris</i> Pin oak	50	12	13	52 70	6.2	2.9	Semi-mature low canopy in good condition.	2A A2	Moderate
78	West of Redmonde Pl Adj Mitchell Hyw	<i>Quercus palustris</i> Pinoak	40	10	16	40 47	4.8	2.4	Semi-mature in good condition.	2A A2	Moderate
79		<i>Quercus palustris</i> Pinoak	40	N5S5 E6W4	12	40 46	4.8	2.4	Semi-mature in good condition with algae on stem	2D A2	Moderate
80	Adjacent Mitchell Hwy	<i>Liquidambar styraciflau</i> Sweetgum liquid amber	25	6	10	24 28	2.9	1.9	Immature in excellent condition moss on stem	2A A2	Moderate
81	12m off fence	<i>Liquidambar styraciflau</i> Sweetgum liquid amber	15	5	8	20 22	2.4	1.8	Immature in good condition, moss on stem	2A A2	Low
82	7m off fence	<i>Liquidambar styraciflau</i> Sweetgum liquid amber	15	6	9	20 24	2.4	1.8	Immature in good condition, moss on stem	2A A2	Low
83	Adjacent boundary fence	<i>Liquidambar styraciflau</i> Sweetgum liquid amber	15	4	8	17 22	2.0	1.8	Immature in good condition, moss on stem	1A A2	Low
84		<i>Liquidambar styraciflau</i> Sweetgum liquid amber	15	3	5	10 12	2.0	1.5	Immature in good condition, moss on stem	1A A2	Low
85 x7	Adjacent Mitchell Hwy	<i>Circus canadensis</i> Eastern Redbud	5	2-3	2-4	10-15 15	2.0	1.5	Immature in good condition, moss on stem	1A A2	Low
86	Start of DS05	<i>Ulmus minor</i> Field Elm	70	N6S3 E3W8	24	47/28 79.5	6.6	3.0	Mature twin stems unbalanced to the west and suppressed, minor decay, moderate condition.	2A A2	Moderate
87	Adjacent Mitchell Hwy	<i>Ulmus minor</i> Field Elm	70	N3S6 E2W7	25	40/31 77	5.9	3.0	Mature with lean to the south unbalanced suppressed canopy to south. Moderate condition.	3A A2	Moderate
88	Council Reserve	<i>Ulmus minor</i> Field Elm	70	N8S2E6W 6	18	52 54	6.2	2.6	Mature with minor decay at roots on south side. Scar at 3metres and minor dehydration. the	3A A2	Moderate

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89		<i>Ulmus minor</i> Field Elm	80	N11 S13 E8W8	31	100 100	12.0	3.3	Mature with major cavity at base (600mmx1m) on south side, minor dehydration at 10% and possum in tree. Previously pruned.	3D A1	High
90		<i>Ulmus minor</i> Field Elm	80	N12S8 E7 W13	30	99 100	12.0	3.3	Mature with moderate condition. Decay scar southwest base slight lean-to west. Possum trails in tree.	3A A1	High
91		<i>Ulmus minor</i> Field Elm	70	N5S7 E8W6	20	60 70	7.2	2.9	Semi-mature with moderate condition and lean to the east suppressed by T90, possum trails.	2D A2	Moderate
92		<i>Ulmus minor</i> Field Elm	70	N9S8 E8W7	24	42/45/42/51cm 123	15	3.6	Mature with multiple stems and fracture at 3m, unbalanced canopy to east west possums' trails.	2D A1	High
93 X7	Adjacent Mitchell Hwy	<i>Circus canadensis</i> <i>Eastern Redbud</i>	5	2-3	2-4	10-15 15	2.0	1.5	Immature in good condition, moss on stem.	1A A2	Low
94	Adjacent Mitchell Hwy	<i>Pinus radiata</i> Pine	50	N6S4E4W 6	8	30/30/25 50	5.9	2.5	Semi mature spreading habit with moderate condition and <i>Hedera sp</i> (Ivy vine)	2D A2	Moderate
95	On rock shelf council reserve	<i>Pinus radiata</i> Pine	50	NS10 EW10	8	40 50	4.8	2.5	Semi mature lean to the northwest in moderate condition with physical damage and pruned	3C Z7	Moderate
96	Adjacent Mitchell Hwy	<i>Eucalyptus bridgeanna</i> Apple Box	80	N14S0E7 W7	23	80/21 99	10.0	3.3	Mature with an extensive lean to the north, termite infestation, hollow 20cmx20cm at 1m on south side.	3A A1	High
97	Adj. telegraph pole 12m west	<i>Eucalyptus bridgeanna</i> Apple Box	100	N6S8 E8 W10	26	40/20 156	5.4	3.99	Mature with root damage from rock foundation, lean to the southeast, cavity on north side at 1m from cut stem,	3C A1	High
98	End of DS05	<i>Eucalyptus bridgeanna</i> Apple Box	80	N10S9E10 W10	26	30/28/25/97 161	13.0	4.04	Post Mature three stems and cavity on the east, fracture on stem.	2D A1	High
99x5		<i>Prunus Cherry spp.</i> (<i>Deciduous</i>)	3	1-3	1-3	<10 <10	2.0	1.5	Juvenile in good condition.	1A A2	low
100	Start of DS06 6m W off fence	<i>Quercus palustris</i> Pin oak	40	12	20	38 50	4.6	2.5	Immature and in good condition.	2A A2	Moderate
101	Adjacent boundary fence council reserve DS06	<i>Quercus palustris</i> Pin oak	40	12	25	47 57	5.6	2.6	Semi-mature and in good condition.	2A A2	Moderate
102		<i>Quercus palustris</i> Pin oak	30	12	20	48 48	5.8	2.4	Semi-mature in good condition moss on stem, low canopy	2A A2	Moderate
103		<i>Quercus palustris</i> Pin oak	30	10	21	49 49	5.9	2.45	Semi-mature and in good condition.	2A A2	Moderate
104		<i>Quercus palustris</i> Pin oak	25	9	17	33 35	4.0	2.1	Immature with inclusion and moderate condition.	2A A2	Moderate
105		<i>Quercus palustris</i> Pin oak	40	8	18	40 50	4.8	2.5	Semi-mature in good condition with low canopy.	2A A2	Moderate
106	10m off Mitchell Hwy	<i>Quercus palustris</i> Pin oak	40	12	24	40 50	4.8	2.5	Semi-mature in good condition with low canopy.	2A A2	Moderate
107	Adjacent Mitchell Hwy and boundary fence.	<i>Populus deltoides</i> Cottonwood Poplar	50	7	24	38/34 55	7.0	2.6	Semi mature fungal growth at south side of base of stem indicating rot, inclusion at 2m height.	2D A2	Moderate
108	council reserve	<i>Populus deltoides</i> Cottonwood Poplar	50	7	25	42 50	5.0	2.5	Semi-mature in good condition, decay at base colonizing with low canopy.	2A A2	Moderate
109		<i>Populus deltoides</i> Cottonwood Poplar	40	N4S3E7W 5	20	30/20/22 40	4.9	2.3	Semi-mature in moderate condition with damage from wooden stake to roots.	2D A2	Moderate
110		<i>Populus deltoides</i> Cottonwood Poplar	40	6	21	35 40	4.2	2.3	Semi mature, adjacent swale, unbalanced canopy to the east.	2D A2	Moderate

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111		<i>Populus deltoides</i> Cottonwood Poplar	50	8	23	50 50	6.0	2.5	Semi-mature, moss on stem minor decay and in good condition.	2D A2	Moderate
112		<i>Populus deltoides</i> Cottonwood Poplar	70	8	25	67 73	8.0	2.9	Semi-mature with twin stem and inclusion T 3Mdecay on southwest stem with epicormic growth.	2D A2	Moderate
113		<i>Populus deltoides</i> Cottonwood Poplar	50	8	25	50 55	6.0	2.6	Semi-mature with root damage at base on west side and epicormic growth.	2D A2	Moderate
114		<i>Populus deltoides</i> Cottonwood Poplar	50	8	26	50 50	6.0	2.5	Semi-mature with twin leaders and good condition. Water shoots and moss on stem.	2D A2	Moderate
115	Adjacent Mitchell Hwy and boundary fence. council reserve DS06	<i>Populus deltoides</i> Cottonwood Poplar	50	7	25	40 50	4.8	2.3	Semi mature minor root damage and decay west of stem.	2D A2	Moderate
116		<i>Populus deltoides</i> Cottonwood Poplar	50	NS7 EW6	25	47 50	5.6	2.3	Semi-mature with good condition.	2D A2	Moderate
117		<i>Populus deltoides</i> Cottonwood Poplar	60	NS8 EW6	25	60/20/20 74	7.9	2.9	Mature in good condition.	2A A2	Moderate
118	Near fence	<i>Populus deltoides</i> Cottonwood Poplar	30	N3S4E4W 2	18	30 35	3.6	2.1	Semi mature unbalanced canopy to the east and in good condition.	2D A2	Moderate
119	Adjacent Mitchell Hwy and boundary fence. Council.	<i>Populus deltoides</i> Cottonwood Poplar	50	6	23	42 52	5.0	2.5	Semi-mature in good condition.	2D A2	Moderate
120		<i>Populus deltoides</i> Cottonwood Poplar	60	8	23	53 75	6.4	2.9	Semi-mature in good condition poor development and unbalanced canopy - east with minor decay. Previously pruned.	2D A2	Moderate
121	20m off Mitchell Hwy	<i>Ulmus minor</i> Golden Elm	40	8	24	40 50	4.8	2.5	Semi-mature with twin leader and in good condition,	2A A2	Moderate
122	Adjacent boundary fence council reserve DS06	<i>Ulmus minor</i> Golden Elm	40	N4S5 E5W4	19	30/20/20 50	4.9	2.5	Semi-mature with twin leader and in good condition,	2A A2	Moderate
123		<i>Populus deltoides</i> Cottonwood Poplar	70	N8S8 E10W6	26	60 65	7.2	2.8	Mature and good condition. Lean to the east and gold-coloured algae on stem, previously pruned.	3A A2	Moderate
124		<i>Populus deltoides</i> Cottonwood Poplar	60	N5S5 E8W7	25	50 60	6.0	2.7	Mature and good condition. Lean to the east and unbalanced to the east.	3A A2	Moderate
125	10m off fence	<i>Populus deltoides</i> Cottonwood Poplar	60	N4S5E8W 7	26	50 65	6.0	2.8	Mature in moderate condition and poor development, soil compaction on east side of tree	3A A2	Moderate
126	Adjacent boundary fence council reserve	<i>Populus deltoides</i> Cottonwood Poplar	60	N5S8E6W 9	26	58 70	8.4	2.9	Mature and good condition. Lean to the east and unbalanced to the east.	3A A1	High
127		<i>Populus deltoides</i> Cottonwood Poplar	60	N6S6E6W 8	26	56 56	6.7	2.6	Mature and good condition.	3A A1	High
128		<i>Populus deltoides</i> Cottonwood Poplar	60	N7S7E6W 7	27	55 62	6.6	2.7	Mature and good condition.	3A A1	High
129		<i>Populus deltoides</i> Cottonwood Poplar	60	N6S7E7W 7	27	57 77	6.8	3.0	Mature and good condition.	3A A1	High
130	Adjacent boundary fence council reserve DS06	<i>Populus deltoides</i> Cottonwood Poplar	20	6	12	24 25	2.9	1.9	Immature in good condition with minor dehydration and unbalanced canopy to the east.	2D A2	Moderate
131		<i>Populus deltoides</i> Cottonwood Poplar	20	6	12	24 25	2.9	1.9	Immature in good condition with root damage and trenches or soil disturbance in trench like formation either side of the tree. (*Further investigation may be warranted if the history of the soil disturbance can be revealed from council.	2D A2	Moderate

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132		<i>Populus deltoides</i> Cottonwood Poplar	20	6	12	26 30	3.1	2.0	Immature in good condition.	2A A2	Moderate
133	8m off fence	<i>Populus deltoides</i> Cottonwood Poplar	25	6	12	27 30	3.2	2.0	Immature in good condition, lean to the west and swale within the root zone may affect stability.	2A Z6	Low
134	END of DS06	<i>Populus deltoides</i> Cottonwood Poplar	40	8	14	28/12/10 32	3.6	2.1	Immature and in good condition with a lean to the west and likely fauna nest at 9m*.	2D A2	Moderate
135		<i>Populus deltoides</i> Cottonwood Poplar	30	7	14	15/17 32	3.0	2.1	Immature and in good condition with a lean to the west	2D A2	Moderate
136	Start of DS08 Adjacent creek	<i>Populus deltoides</i> Cottonwood Poplar	35	8	16	38 40	4.6	2.3	Semi-mature in good condition.	2A A1	Moderate
137	Mitchell Highway swale	<i>Casuarina equisetifolia</i> Horsetail	40	8	14	44 50	5.3	2.5	Semi-mature in good condition.	2A A1	Moderate
138	Adjacent pole and cable	<i>Casuarina equisetifolia</i> Horsetail	40	8	6	40 50	4.8	2.5	Immature in good condition, lean to the east. Heavily pruned under power utilities line at 8metres.	3D A3	Low
139	Corner of Mitchell Highway and Brabham Way Council reserve	<i>Casuarina equisetifolia</i> Horsetail	40	8	12	40 50	4.8	2.5	Semi-mature in good condition.	2A A1	Moderate
140		<i>Casuarina equisetifolia</i> Horsetail	40	10	12	45 50	5.4	2.5	Semi-mature in good condition previously pruned at 8 metres.	2D A2	Moderate
141		<i>Casuarina equisetifolia</i> Horsetail	35	8	7	40 50	4.8	2.5	Semi-mature in poor condition, heavily pruned previously.	2D A2	Low
142	Adjacent Mitchell Hwy council reserve End of DS08	<i>Eucalyptus bridgeanna</i> Apple Box	30	8	16	34 35	4.1	2.1	Semi-mature in poor condition lean to the east and root damage	3A A2	Moderate
143		<i>Eucalyptus bridgeanna</i> Apple Box	40	N5S6 E6W5	16	50 55	6.0	2.6	Semi-mature previously prune with unbalanced canopy and cavity at 4metres. Failed branch at 3metres.	2A A2	Moderate
144		<i>Populus nigra</i> Lombardy Poplar	10	2	10	10 12	2.0	1.5	Immature in good condition.	1A A1	Low
145		<i>Eucalyptus bridgeanna</i> Apple Box	10	4	8	18 20	2.2	1.7	Immature unbalanced canopy	1A A1	Low
146		<i>Eucalyptus bridgeanna</i> Apple Box	50	N0S10E5 W5	16	42/44 55	7.3	2.6	Semi-mature Eastern failed leader and cavity at base unstable.	4C Z5	Very Low
147		<i>Eucalyptus viminalis</i> Manna Gum	10	N8S4E7W 13	16	44 50	5.3	2.5	Immature in good condition	2D A1	Very Low
148	Start of DS09 Swamp	<i>Eucalyptus viminalis</i> Manna	40	8	16	32/34 72	5.6	2.9	Immature with included stem and codominant leaders.	2D Z6	Moderate
148ax2	DS07 In swale adj. near T147	<i>Prunus spp (Deciduous)</i>	10	4	4	10/10/10 20	2.0	1.7	Immature in good condition.	2A A1	Low
148bx6		<i>Populus nigra</i> Lombardy Poplar	10	1	8	12 14	2.0	1.5	Immature in good condition.	1A A1	Low
149	Continue DS09 Swamp	<i>Eucalyptus bridgeanna</i> Apple Box	55	N4S6E8W 5	15	32/35/37 75	7.2	2.9	Mature in moderate condition with fauna roosting. triple leader with termite colonisation and beam crack on eastern leader.	2D Z5	High
150 X4		<i>Eucalyptus spp</i>	25	5	8	20/20/20/20 40	4.8	2.3	Semi-mature with multiple leaders, mallee habit and minor dehydration	3C Z5	Low
151	D509 boundary	<i>Populus deltoides</i> Cottonwood Poplar	10	3	12	20/10 25	2.6	1.9	Immature in good condition.	1A A1	Low
152	Start of columnar hedge	<i>Populus nigra</i> Lombardy Poplar	50	3	12	24/10 25	3.1	1.9	Semi-mature in moderate condition.	2D A2	Moderate

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153		<i>Populus nigra</i> Lombardy Poplar	50	6	28	40/12 60	5.0	2.7	Semi-mature in moderate condition.	2D A2	Moderate
154		<i>Populus nigra</i> Lombardy Poplar	50	4	24	42 50	5.04	2.5	Semi-mature in moderate condition.	2D A2	Moderate
155	DS09 South of T154.	<i>Populus deltoides</i> Cottonwood Poplar	15	2	9	10/14 25	2.0	1.9	Immature in good condition and inclusion at base.	2A A2	Low
155a	In creek	<i>Populus deltoides</i> Cottonwood Poplar	10	2	8	10 10	2.0	1.5	Immature in good condition and inclusion at base.	1C A2	Low
155bx3	Adjacent creek	<i>Populus nigra</i> Lombardy Poplar	15	1-2	8-15	10/10-20/10 20-30	2.6	1.8	Immature with moderate condition and multi stemmed.	1C A2	Very Low
156	Columnar hedge Adjacent Mitchell Hwy And boundary fence, council reserve DS09	<i>Populus deltoides</i> Cottonwood Poplar	45	4	27	42 50	5.0	2.5	Semi-mature in moderate condition.	2D A2	Moderate
157		<i>Populus deltoides</i> Cottonwood Poplar	45	4	27	40 50	4.8	2.5	Semi-mature in moderate condition.	2D A2	Moderate
158		<i>Populus deltoides</i> Cottonwood Poplar	15	2	10	20 40	2.4	2.4	Immature lean to the east and moderate condition.	1A A1	Low
159		<i>Populus nigra</i> Lombardy Poplar	45	3	25	54 70	6.5	2.9	Semi-mature in moderate condition, lean to the east.	2D A2	Moderate
160		<i>Populus nigra</i> Lombardy Poplar	45	3	25	40 50	4.8	2.5	Semi-mature in moderate condition. Concrete Slab at the base	2D A2	Moderate
161		<i>Populus nigra</i> Lombardy Poplar	45	3	26	50 60	6.0	2.7	Semi-mature in moderate condition.	2D A2	Moderate
162		<i>Populus nigra</i> Lombardy Poplar	45	3	26	39 47	4.7	2.4	Semi-mature in moderate condition.	2D A2	Moderate
163		<i>Populus nigra</i> Lombardy Poplar	50	4	26	47/14 55	5.9	2.6	Semi-mature in moderate condition.	2A A2	Moderate
164		<i>Populus nigra</i> Lombardy Poplar	50	4	26	28/45 70	6.4	2.9	Mature and inclusion at 1metre in good condition.	2D A2	Moderate
165		<i>Populus nigra</i> Lombardy Poplar	25	2	20	20 22	2.4	1.7	Immature with stake at the base and moderate condition	1D A2	Low
166		<i>Populus nigra</i> Lombardy Poplar	50	4	26	46 50	5.5	2.5	Mature in good condition.	2A A2	Moderate
167		<i>Populus nigra</i> Lombardy Poplar	50	6	28	50 65	6.0	2.8	Mature in good condition, with a twin leader.	2A A2	Moderate
168 x3	Edeg of swamp	<i>Populus nigra</i> Lombardy Poplar	50	6	28	50/25 55	6.7	2.6	Mature with moderate condition and pipe adjacent base restricting growth.	3C A2	Low
168a	3m south T168	<i>Populus nigra</i> Lombardy Poplar	60	NS6 EW4	26	40/20/25/15 80	6.4	3.0	Mature with multiple stems, moderate condition.	2D A2	Moderate
168b	3m south T168a	<i>Populus nigra</i> Lombardy Poplar	60	NS6 EW4	26	44/20 80	5.4	3.0	Mature with two stems in saturated, soil moderate condition.	2D A2	Moderate
169	Along boundary council reserve	<i>Populus nigra</i> Lombardy Poplar	40	6	26	44 50	5.3	2.5	Mature in moderate condition with	3C A2	Low
169a	Columnar hedge Adjacent Mitchell	<i>Populus nigra</i> Lombardy Poplar	10	2	8	10/10 20	2.0	1.7	Juvenile lean to the wet and a failed leader poor condition.	4C Z5	Very low
169b	Hwy	<i>Populus nigra</i> Lombardy Poplar	10	3	12	20 20	2.4	1.7	Immature in good condition.	2A A1	Low

Tree No	Location	Scientific Name Common Name	AGE years	Crown (m)	Height (m)	DBH* DRC (cm)	TPZ* (m)	SRZ* (m)	Visual Tree Assessment (VTA) – Tree Health & Condition	TULE* A-Z	Retention Value
170	And boundary fence	<i>Populus nigra</i> Lombardy Poplar	50	NS4 EW6	26	60 75	7.2	2.9	Mature in moderate condition with poor development	3A A2	Moderate
171	Council reserve	<i>Populus nigra</i> Lombardy Poplar	50	6	26	50 60	6.0	2.7	Mature in moderate condition with poor development. Included leader with twin leader at 12metres.	3A Z5	Moderate
172	DS09	<i>Populus nigra</i> Lombardy Poplar	30	3	18	30 35	3.6	4.2	Semi-mature in moderate condition with poor development	2D A2	Moderate
173		<i>Populus nigra</i> Lombardy Poplar	50	6	27	65/20/10 80	8.3	3.0	Mature in moderate condition with poor development	2D A2	Moderate
174		<i>Populus nigra</i> Lombardy Poplar	60	NS6 EW2	26	60 70	7.2	2.9	Mature in moderate condition with poor development	2D A2	Moderate
175		<i>Populus nigra</i> Lombardy Poplar	50	NS4 EW2	26	46 55	5.5	2.6	Mature in moderate condition with poor development	2D A2	Moderate
176		<i>Populus nigra</i> Lombardy Poplar	50	NS4 EW2	26	56 62	6.7	2.7	Mature in good condition.	2D A1	Moderate
177x7	Near highway	<i>Populus nigra</i> Lombardy Poplar	5	1	6-8	10 10	2.0	1.5	Juvenile in excellent condition	1A A1	Low
178		<i>Populus nigra</i> Lombardy Poplar	50	4	26	40/20 50	5.4	2.5	Mature in moderate condition with poor development, algae on stem at 15m.	2A A2	Moderate
179		<i>Populus nigra</i> Lombardy Poplar	50	NS4 EW3	26	48 55	5.8	2.6	Semi-mature in moderate condition with poor development.	2A A2	Moderate
180	Columnar hedge continues Ds09	<i>Populus nigra</i> Lombardy Poplar	60	NS4 EW3	28	55 80	6.6	3.0	Mature in moderate condition with poor development	2A A2	Moderate
181		<i>Populus nigra</i> Lombardy Poplar	60	NS6 EW3	27	60 70	7.2	2.9	Mature in moderate condition with poor development	2A A2	Moderate
182		<i>Populus nigra</i> Lombardy Poplar	60	NS4 EW3	28	55 80	6.6	3.0	Mature in moderate condition with poor development	2D A2	Moderate
183		<i>Populus nigra</i> Lombardy Poplar	60	NS6 EW3	27	65 80	7.8	3.0	Mature in moderate condition with poor development	2D A2	Moderate
184	End OF DS09	<i>Populus nigra</i> Lombardy Poplar	60	NS6 EW3	26	57 75	6.8	2.9	Mature in moderate condition with poor development	2A A2	Moderate
185	START OF DS08	<i>Populus nigra</i> Lombardy Poplar	25	3	8	22 25	2.6	1.9	Immature in moderated condition with damaged stem and minor decay.	3C A2	Low
186	DS08	<i>Populus nigra</i> Lombardy Poplar	80	6	28	80/30/25x2/15x3 200	11.0	4.43	Mature in moderate condition.	2D A2	High
187		<i>Populus nigra</i> Lombardy Poplar	15	5	12	15 20	2.0	1.7	Immature in good condition.	1A A1	Low
188	columnar hedge continues	<i>Populus nigra</i> Lombardy Poplar	40	2	18	30 40	3.6	2.3	Immature with good condition and poor development.	2A A2	Moderate
189	Adjacent boundary fence	<i>Populus nigra</i> Lombardy Poplar	60	5	28	50 60	6.0	2.7	Mature with good condition and poor development.	2A A2	Moderate
190		<i>Populus nigra</i> Lombardy Poplar	45	NS6 EW6	26	45 50	5.4	2.5	Mature with good condition and poor development.	2A A2	Moderate
191	council reserve	<i>Populus nigra</i> Lombardy Poplar	40	3	26	35 45	4.2	2.4	Semi-mature with good condition and poor development.	2A A2	Moderate
192	DS08	<i>Populus nigra</i> Lombardy Poplar	30	3	22	30 35	3.6	2.1	Immature with good condition and poor development.	2A A2	Moderate

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193		<i>Populus nigra</i> Lombardy Poplar	40	4	27	40 44	4.8	2.34	Semi-mature in moderate condition but poor development.	2D A2	Moderate
194		<i>Populus nigra</i> Lombardy Poplar	50	5	27	45 45	5.4	2.4	Semi-mature with multiple leaders at 12metres height. Good condition.	2D A2	Moderate
195		<i>Populus nigra</i> Lombardy Poplar	40	3	27	40 44	4.8	2.3	Semi-mature in moderate condition.	2D A2	Moderate
196		<i>Populus nigra</i> Lombardy Poplar	40	3	28	38 44	4.6	2.3	Semi-mature in good condition.	2A A1	Moderate
197		<i>Populus nigra</i> Lombardy Poplar	40	3	26	40 44	4.8	2.3	Semi-mature in good condition.	2A A1	Moderate
198		<i>Populus nigra</i> Lombardy Poplar	40	3	26	40 48	4.8	2.4	Semi-mature in good condition.	2A A1	Moderate
199		<i>Populus nigra</i> Lombardy Poplar	40	3	22	30/30 45	2.3	2.4	Semi-mature in good condition, inclusion at one metre.	3D A2	Moderate
200		<i>Populus nigra</i> Lombardy Poplar	40	3	22	40 45	4.8	2.5	Semi-mature in good condition.	2A A1	Moderate
201		<i>Populus nigra</i> Lombardy Poplar	50	3	24	40 60	4.8	2.7	Semi-mature in good condition.	2A A1	Moderate
202		<i>Populus nigra</i> Lombardy Poplar	50	NS4 EW3	25	40/30 70	6.0	2.9	Mature in good condition but poor development, inclusion at 1metre and twin stem.	3C A2	Moderate
203		<i>Populus nigra</i> Lombardy Poplar	50	NS4 EW3	25	41 50	4.9	2.5	Mature with good condition.	2A A1	Moderate
204	columnar hedge continues	<i>Populus nigra</i> Lombardy Poplar	50	4	24	40/20 50	4.5	2.5	Mature with moderate condition	2A A1	Moderate
205		<i>Populus nigra</i> Lombardy Poplar	50	2	20	25 30	3.0	2.0	Immature with good condition	2A A1	Moderate
206	Adjacent boundary fence	<i>Populus nigra</i> Lombardy Poplar	50	5	20	54 64	2.6	2.5	Semi-mature in good condition.	2A A1	Moderate
207		<i>Populus nigra</i> Lombardy Poplar	0	3	20	35 40	2.3	2.1	Semi-mature in good condition.	2A A1	Moderate
208	council reserve DS08	<i>Populus nigra</i> Lombardy Poplar	40	4	26	40 45	4.8	2.4	Semi-mature in good condition.	2A A1	Moderate
209		<i>Populus nigra</i> Lombardy Poplar	25	2	20	25 30	3.0	2.3	Immature in good condition but poor development.	2A A2	Moderate
210		<i>Populus nigra</i> Lombardy Poplar	40	4	24	30 35	3.6	2.1	Immature in good condition.	2A A1	Moderate
211	Each side of Brabham Way	<i>Populus nigra</i> Lombardy Poplar	25	3	24	35 45	4.1	2.4	Immature in good condition.	2A A1	Moderate
212		<i>Populus nigra</i> Lombardy Poplar	40	4	20	30 35	3.6	2.1	Semi-mature in good condition.	2A A1	Moderate
213	columnar hedge continues	<i>Populus nigra</i> Lombardy Poplar	35	4	24	40 45	4.8	2.4	Semi-mature in good condition.	2A A1	Moderate
214	Adjacent boundary fence	<i>Populus nigra</i> Lombardy Poplar	35	4	24	30 40	3.6	2.3	Semi-mature in good condition.	2A A1	Moderate
215		<i>Populus nigra</i> Lombardy Poplar	35	4	22	30 40	3.6	2.3	Semi-mature in good condition.	2A A1	Moderate

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216	council reserve DS08	<i>Populus nigra</i> Lombardy Poplar	35	4	24	33 40	4.0	2.3	Semi-mature in good condition.	2D A1	Moderate
217		<i>Populus nigra</i> Lombardy Poplar	35	5	25	40 50	4.8	2.5	Semi-mature in good condition.	2D A1	Moderate
218		<i>Populus nigra</i> Lombardy Poplar	35	4	24	44 45	5.3	2.4	Semi-mature in good condition.	2D A1	Moderate
219		<i>Populus nigra</i> Lombardy Poplar	35	4	24	35/18 45	4.7	2.4	Semi-mature in good condition.	2D A1	Moderate
220		<i>Populus nigra</i> Lombardy Poplar	35	4	23	30 32	3.6	2.1	Semi-mature in good condition.	2D A1	Moderate
221		<i>Populus nigra</i> Lombardy Poplar	35	4	20	25 35	3.0	2.1	Semi-mature in good condition.	2D A1	Moderate
222		<i>Populus nigra</i> Lombardy Poplar	35	4	10	20/20 35	3.4	2.1	Semi-mature in good condition.	2D A1	Moderate
223		<i>Populus nigra</i> Lombardy Poplar	35	4	22	30 50	3.6	2.5	Semi-mature in good condition.	2D A1	Moderate
224		<i>Populus nigra</i> Lombardy Poplar	35	4	22	34 40	4.1	2.3	Semi-mature in good condition.	2D A1	Moderate
225		<i>Populus nigra</i> Lombardy Poplar	35	3	21	30 40	3.6	2.3	Semi-mature in good condition.	2D A1	Moderate
226	Edge of swale	<i>Populus nigra</i> Lombardy Poplar	35	4	23	40 44	4.8	2.3	Semi-mature with twin leader at 8metres height and inclusion at 8metres with epicormic growth.	2D A2	Moderate
227	Adjacent pole	<i>Populus nigra</i> Lombardy Poplar	35	NS6 EW4	23	42 50	5.0	2.5	Semi-mature with scar on east side and inclusion at 8metres with epicormic growth.	3A A2	Moderate
227a		<i>Stag</i>	25	-	8	20 22	2.4	1.7	Dead no hollows fallen into Tree137.	5C A2	Very Low
228	columnar hedge continues	<i>Populus nigra</i> Lombardy Poplar	40	4	23	40 50	4.8	2.5	Semi mature minor dehydrated decayed wood.	2D A2	Moderate
228a		<i>Stag</i>	10	-	5	22 24	2.6	1.8	Dead no hollows	4C Z4	Very Low
229	Adjacent boundary fence council reserve DS08	<i>Populus nigra</i> Lombardy Poplar	50	NS5 EW3	23	32/25 50	4.9	2.5	Semi-mature in good condition.	2D A1	Moderate
230		<i>Populus nigra</i> Lombardy Poplar	45	NS5 EW3	23	40/24 50	5.6	2.5	Semi-mature in moderate condition with an inclusion at base.	2D A2	Moderate
230a		<i>Stag</i>	15	-	6	20 25	2.4	1.7	Dead no hollows	4A Z4	Very low
231		<i>Populus nigra</i> Lombardy Poplar	45	NS5 EW3	24	40/22 50	5.5	2.5	Semi-mature in good condition.	2D A1	Moderate
232		<i>Populus nigra</i> Lombardy Poplar	50	NS5 EW3	24	40 50	4.8	2.5	Semi-mature in moderate condition, with minor deadwood at 8 metres.	2D A2	Moderate
233		<i>Populus nigra</i> Lombardy Poplar	25	3	19	25 30	3.0	2.0	Semi-mature in moderate condition.	2D A1	Moderate
234		<i>Populus nigra</i> Lombardy Poplar	45	NS5 EW3	24	42 45	5.0	2.4	Semi-mature in good condition.	2D A1	Moderate
235		<i>Populus nigra</i> Lombardy Poplar	30	NS4 EW2	21	30 40	3.6	2.3	Semi-mature in good condition.	2D A1	Moderate

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236	Either side of Concrete stormwater swale	<i>Populus nigra</i> Lombardy Poplar	50	NS5 EW4	27	50 60	7.2	2.7	Semi-mature in good condition.	2D A1	Moderate
237		<i>Populus nigra</i> Lombardy Poplar	50	NS5 EW4	27	50 60	7.2	2.7	Semi-mature in good condition, in swale.	2D A1	Moderate
238	columnar hedge continues	<i>Populus nigra</i> Lombardy Poplar	50	NS5 EW4	20	45 50	5.4	2.5	Semi-mature in good condition.	2D A1	Moderate
239		<i>Populus nigra</i> Lombardy Poplar	25	3	19	20 25	2.4	1.9	Semi-mature in good condition.	2D A1	Low
240	columnar hedge continues	<i>Populus nigra</i> Lombardy Poplar	50	NS6 EW3	27	40 50	4.8	2.5	Semi-mature in good condition.	2D A1	Moderate
241		<i>Populus nigra</i> Lombardy Poplar	50	NS6 EW3	27	37 45	4.4	2.4	Semi-mature in good condition.	2D A1	Moderate
242	Adjacent survey peg	<i>Populus nigra</i> Lombardy Poplar	50	NS4 EW3	27	33 45	4.0	2.4	Semi-mature in good condition.	2D A1	Moderate
243	columnar hedge continues	<i>Populus nigra</i> Lombardy Poplar	50	NS4 EW3	27	42 50	5.0	2.5	Semi-mature in good condition.	2D A1	Moderate
244		<i>Populus nigra</i> Lombardy Poplar	50	NS4 EW3	26	40 50	4.8	2.5	Semi-mature in good condition.	2D A1	Moderate
245		<i>Populus nigra</i> Lombardy Poplar	50	NS6 EW4	28	50 55	6.0	2.6	Semi-mature in good condition.	2D A1	Moderate
246	Adjacent boundary fence	<i>Populus nigra</i> Lombardy Poplar	50	NS6 EW4	28	40 50	4.8	2.5	Semi-mature in good condition with twin leader.	2D A2	Moderate
247		<i>Populus nigra</i> Lombardy Poplar4	50	NS6 EW5	25	40 50	4.8	2.5	Semi-mature in good condition.	2D A1	Moderate
248	council reserve DS08	<i>Populus nigra</i> Lombardy Poplar	50	NS6 EW5	26	43 55	5.3	2.6	Semi-mature in good condition.	2D A1	Moderate
249		<i>Populus nigra</i> Lombardy Poplar	10	2	14	20 25	2.4	1.9	Immature and in excellent condition	1A A1	Low
250		<i>Populus nigra</i> Lombardy Poplar	5	1	6	10 10	2.0	1.5	Juvenile and in excellent condition	1A A1	Low
250a	1m South & 3m East of T251	<i>Populus nigra</i> Lombardy Poplar	10	2	12	15 20	2.4	1.7	Immature and in excellent condition	2A A1	Low
251	columnar hedge continues	<i>Populus nigra</i> Lombardy Poplar	45	NS4 EW4	20	30 30	3.6	2.0	Immature and in good condition	2A A1	Moderate
252		<i>Populus nigra</i> Lombardy Poplar	45	NS4 EW4	26	40 50	4.8	2.5	Semi-mature in good condition.	2A A1	Moderate
253	Adjacent boundary fence	<i>Populus nigra</i> Lombardy Poplar	45	NS5 EW4	26	40/10 50	4.9	2.5	Semi-mature in good condition. Moss and minor decay on stem.	2D A2	Moderate
254		<i>Populus nigra</i> Lombardy Poplar	45	NS5 EW4	26	40 50	4.8	2.5	Semi-mature in good condition. Moss and minor decay on stem.	2D A2	Moderate
255		<i>Populus nigra</i> Lombardy Poplar	45	NS5 EW4	26	50 50	6.0	2.5	Semi-mature in good condition. Moss and minor decay on stem.	2D A2	Moderate
256	Start of DS06	<i>Populus nigra</i> Lombardy Poplar	45	NS5 EW4	26	42 50	5.0	2.5	Semi-mature in good condition. Moss and termite's colonisation.	2D A2	Moderate
257	columnar hedge continues	<i>Populus nigra</i> Lombardy Poplar	45	NS5 EW3	26	42 50	5.0	2.5	Semi-mature in good condition. Moss on stem.	2D A2	Moderate

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258		<i>Populus nigra</i> Lombardy Poplar	45	NS4 EW3	26	42 50	5.0	2.5	Semi-mature in good condition. Moss on stem.	2D A2	Moderate
259	columnar hedge continues Adjacent boundary fence council reserve DS06	<i>Populus nigra</i> Lombardy Poplar	40	NS5 EW3	23	35 40	4.2	2.3	Semi-mature in good condition. Moss on stem.	2D A2	Moderate
260		<i>Populus nigra</i> Lombardy Poplar	40	3	23	33 40	4.0	2.3	Semi-mature in good condition. Moss on stem.	2D A2	Moderate
261		<i>Populus nigra</i> Lombardy Poplar	40	3	23	35 45	4.2	2.4	Semi-mature in good condition. Moss on stem.	2D A2	Moderate
262		<i>Populus nigra</i> Lombardy Poplar	30	3	20	26 35	3.1	2.1	Semi-mature in good condition. Moss on stem.	2D A2	Moderate
263		<i>Populus nigra</i> Lombardy Poplar	50	NS4 EW3	25	40 55	4.8	2.6	Semi-mature in good condition. Moss on stem.	2D A2	Moderate
264		<i>Populus nigra</i> Lombardy Poplar	50	NS4 EW3	24	41 51	4.9	2.5	Semi-mature in good condition. Moss on stem.	2D A2	Moderate
265		<i>Populus nigra</i> Lombardy Poplar	30	3	22	30 35	3.6	2.1	Semi-mature in good condition. Moss on stem.	2A A2	Moderate
266		<i>Populus nigra</i> Lombardy Poplar	35	2	18	30 35	3.6	2.1	Semi-mature in good condition. Moss on stem.	2A A2	Moderate
267		<i>Populus nigra</i> Lombardy Poplar	40	4	22	43 55	5.3	2.6	Semi-mature in good condition. Moss on stem.	2A A2	Moderate
268		<i>Populus nigra</i> Lombardy Poplar	40	3	21	34 40	4.1	2.3	Semi-mature in moderate condition with twin leader at 18metres. Moss on stem.	2D A2	Moderate
269		<i>Populus nigra</i> Lombardy Poplar	30	3	18	25 30	3.0	2.0	Immature in good condition. Moss on stem.	1A A2	Moderate
270		<i>Populus nigra</i> Lombardy Poplar	30	3	19	25/10 30	3.2	2.0	Immature in good condition. Moss on stem.	1A A2	Moderate
271		<i>Populus nigra</i> Lombardy Poplar	30	3	20	25/12 40	3.4	2.3	Immature in good condition. Moss on stem.	1A A2	Moderate
272		<i>Populus nigra</i> Lombardy Poplar	30	3	20	26 46	3.1	2.4	Immature in good condition. Moss on stem.	1A A2	Moderate
273		<i>Populus nigra</i> Lombardy Poplar	20	2	16	20/10 30	2.8	2.0	Immature in good condition. Moss on stem.	1A A2	Low
274		<i>Populus nigra</i> Lombardy Poplar	50	NS6 EW4	25	42 50	5.0	2.5	Immature in good condition. Moss on stem.	2A A2	Moderate
275		<i>Populus nigra</i> Lombardy Poplar	50	NS5 EW4	25	40 50	4.8	2.5	Semi-mature in good condition. Moss on stem.	2A A2	Moderate
276		<i>Populus nigra</i> Lombardy Poplar	50	NS4 EW3	23	38 45	4.6	2.4	Semi-mature in good condition. Moss on stem.	2A A2	Moderate
277		<i>Populus nigra</i> Lombardy Poplar	20	2	16	20/10 25	2.6	1.9	Immature in good condition with minor decay on north side.	1D A2	Low
278		<i>Populus nigra</i> Lombardy Poplar	40	NS4 EW3	22	32/17 45	4.3	2.4	Semi-mature in good condition. Moss on stem.	2A A2	Moderate
279	columnar hedge continues	<i>Populus nigra</i> Lombardy Poplar	25	3	18	25 33	3.0	2.1	Semi-mature in good condition.	1D A2	Low
280		<i>Populus nigra</i> Lombardy Poplar	45	NS4 EW3	22	36 45	4.3	2.4	Semi-mature in good condition. Moss on stem.	2A A2	Moderate

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281	Adjacent boundary fence	<i>Populus nigra</i> Lombardy Poplar	40	3	22	30 40	3.6	2.3	Semi-mature in good condition. Moss on stem.	2A A2	Moderate
282	council reserve	<i>Populus nigra</i> Lombardy Poplar	30	3	23	30 40	3.6	2.3	Semi-mature in good condition. Moss on stem.	2A A2	Moderate
283	DS06	<i>Populus nigra</i> Lombardy Poplar	40	NS4 EW3	23	37 42	4.4	2.3	Semi-mature in good condition. Moss on stem.	2A A2	Moderate
284		<i>Populus nigra</i> Lombardy Poplar	20	3	18	24/10 30	3.2	1.9	Immature in good condition. Moss on stem.	2A A2	Low
285		<i>Populus nigra</i> Lombardy Poplar	45	3	20	30 40	3.6	2.0	Semi-mature in good condition. Moss on stem.	2A A2	Moderate
286		<i>Populus nigra</i> Lombardy Poplar	40	NS4 EW3	24	30/20 50	4.3	2.5	Semi-mature in good condition. Inclusion at base 1metre.	2A A2	Moderate
287		<i>Populus nigra</i> Lombardy Poplar	45	NS4 EW3	24	37/15 50	4.8	2.5	Semi-mature in good condition. Moss on stem.	2A A2	Moderate
288	8m South-East of T124	<i>Populus nigra</i> Lombardy Poplar	40	3	23	36 45	4.3	2.3	Semi-mature in good condition. Moss on stem.	2A A2	Moderate
289	columnar hedge continues	<i>Populus nigra</i> Lombardy Poplar	45	NS4 EW3	24	36 40	4.3	2.3	Semi-mature in good condition. Moss on stem.	2A A2	Moderate
290		<i>Populus nigra</i> Lombardy Poplar	15	2	18	20 35	2.4	2.1	Immature in good condition. Moss on stem.	1A A2	Low
291		<i>Populus nigra</i> Lombardy Poplar	50	3	25	40 50	4.8	2.5	Semi-mature in good condition. Moss on stem.	2A A2	Moderate
292		<i>Populus nigra</i> Lombardy Poplar	50	3	25	40 50	4.8	2.5	Semi-mature in good condition. Moss on stem.	2A A2	Moderate
293		<i>Populus nigra</i> Lombardy Poplar	50	NS4 EW3	25	40 50	4.8	2.5	Semi-mature in good condition. Moss on stem.	2A A2	Moderate
294		<i>Populus nigra</i> Lombardy Poplar	50	NS4 EW3	25	42 50	5.0	2.5	Semi-mature in good condition. Moss on stem.	2A A2	Moderate
295		<i>Populus nigra</i> Lombardy Poplar	50	4	25	40 50	4.8	2.5	Semi-mature in good condition. Moss on stem.	2A A2	Moderate
296		<i>Populus nigra</i> Lombardy Poplar	50	4	23	38 48	4.6	2.4	Semi-mature in good condition. Moss on stem.	2A A2	Moderate
297		<i>Populus nigra</i> Lombardy Poplar	30	3	25	26 30	3.1	2.0	Immature in good condition. Moss on stem.	1A A2	Low
298		<i>Populus nigra</i> Lombardy Poplar	50	NS4 EW3	25	40 50	4.8	2.5	Mature in good condition. Moss on stem.	2A A2	Moderate
299	columnar hedge continues	<i>Populus nigra</i> Lombardy Poplar	60	NS4 EW3	25	45 60	5.4	2.7	Mature in good condition. Moss on stem.	2A A2	Moderate
300		<i>Populus nigra</i> Lombardy Poplar	50	NS3 EW2	25	45 60	5.4	2.7	Semi-mature in good condition. Moss on stem.	2A A2	Moderate
301	Adjacent boundary fence	<i>Populus nigra</i> Lombardy Poplar	45	NS4 EW3	25	45 50	5.4	2.5	Semi-mature in good condition. Moss on stem.	2A A2	Moderate
302	council reserve	<i>Populus nigra</i> Lombardy Poplar	40	NS4 EW3	25	38 45	4.6	2.4	Semi-mature in good condition. Moss on stem.	2A A2	Moderate
303	DS06	<i>Populus nigra</i> Lombardy Poplar	40	3	25	36 48	5.8	2.4	Semi-mature in good condition. Moss on stem.	2A A2	Moderate

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304		<i>Populus nigra</i> Lombardy Poplar	40	3	25	44/20 50	5.8	2.5	Semi-mature in good condition. Moss on stem.	2A A2	Moderate
305		<i>Populus nigra</i> Lombardy Poplar	20	2	19	26 30	3.1	2.0	Immature in good condition. Moss on stem.	1A A2	Low
306		<i>Populus nigra</i> Lombardy Poplar	45	NS4 EW3	24	40 50	4.8	2.5	Semi-mature in good condition. Moss on stem.	2A A2	Moderate
307		<i>Populus nigra</i> Lombardy Poplar	45	NS4 EW3	25	40 60	4.8	2.7	Semi-mature in good condition. Moss on stem.	2A A2	Moderate
308		<i>Populus nigra</i> Lombardy Poplar	45	3	25	40 50	4.8	2.5	Semi-mature in good condition. Moss on stem.	2A A2	Moderate
309		<i>Populus nigra</i> Lombardy Poplar	45	NS 5 EW 3	26	40 55	4.8	2.5	Semi-mature in good condition. Moss on stem.	2A A2	Moderate
310	Pause in hedgerow. Either side.	<i>Populus nigra</i> Lombardy Poplar	45	NS 5 EW 3	26	45 60	5.1	2.7	Semi-mature in good condition. Moss on stem.	2A A2	Moderate
311		<i>Populus nigra</i> Lombardy Poplar	50	NS4 EW3	26	35/25 50	5.1	2.5	Semi-mature in good condition. Moss on stem.	2A A2	Moderate
312	columnar hedge continues DS06	<i>Populus nigra</i> Lombardy Poplar	45	NS4 EW3	26	40 50	4.8	2.5	Semi-mature in good condition. Moss on stem.	2A A2	Moderate
313		<i>Populus nigra</i> Lombardy Poplar	20	2	26	20 25	5.2	3.0	Immature in good condition. Moss on stem.	1A A2	Low
314		<i>Populus nigra</i> Lombardy Poplar	45	NS4 EW3	26	32/10 50	4.0	2.4	Semi-mature in good condition. Moss on stem.	2A A2	Moderate
315		<i>Populus nigra</i> Lombardy Poplar	45	3	26	37 45	4.4	2.4	Semi-mature in good condition. Moss on stem.	2A A2	Moderate
316		<i>Populus nigra</i> Lombardy Poplar	45	4	23	35 45	4.2	2.4	Semi-mature in good condition. Moss on stem. Epicormics at base on south side.	2A A2	Moderate
317		<i>Populus nigra</i> Lombardy Poplar	45	NS4 EW3	24	40 50	4.8	2.5	Semi-mature in good condition. Moss on stem.	2A A2	Moderate
318		<i>Populus nigra</i> Lombardy Poplar	45	NS4 EW3	23	40 50	4.8	2.5	Semi-mature in good condition. Moss on stem.	2A A2	Moderate
319	columnar hedge continues DS06	<i>Populus nigra</i> Lombardy Poplar	40	3	23	32 45	3.8	2.4	Immature in good condition. Moss on stem.	2A A2	Moderate
320		<i>Populus nigra</i> Lombardy Poplar	40	3	23	30 40	3.6	2.0	Immature in good condition. Moss on stem.	2A A2	Moderate
321		<i>Populus nigra</i> Lombardy Poplar	40	3	23	31 38	3.7	2.0	Immature in good condition. Moss on stem.	2A A2	Moderate
322		<i>Populus nigra</i> Lombardy Poplar	40	3	23	30 40	3.6	2.3	Immature in good condition. Moss on stem.	2A A2	Moderate
323		<i>Populus nigra</i> Lombardy Poplar	40	3	23	35 40	4.2	2.3	Immature in good condition. Moss on stem.	2A A2	Moderate
324	columnar hedge continues	<i>Populus nigra</i> Lombardy Poplar	40	NS4 EW3	23	35 40	4.2	2.3	Immature in good condition. Moss on stem.	2A A2	Moderate
325	Adjacent boundary fence	<i>Populus nigra</i> Lombardy Poplar	40	NS4 EW3	25	36 40	4.3	2.3	Semi-mature in good condition. Moss on stem.	2A A2	Moderate
326		<i>Populus nigra</i> Lombardy Poplar	40	NS4 EW3	25	31 35	3.7	2.1	Semi-mature in good condition. Moss on stem.	2A A2	Moderate

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327	council reserve	<i>Populus nigra</i> Lombardy Poplar	4	NS4 EW3	23	40 50	4.8	2.5	Semi-mature in good condition. Moss on stem.	2A A2	Moderate
328	DS06	<i>Populus nigra</i> Lombardy Poplar	40	NS4 EW3	23	38 50	4.6	2.5	Semi-mature in good condition. Moss on stem.	2A A2	Moderate
329		<i>Populus nigra</i> Lombardy Poplar	45	NS4 EW3	23	39 50	4.7	2.5	Semi-mature in good condition. Moss on stem.	2A A2	Moderate
330		<i>Populus nigra</i> Lombardy Poplar	50	NS4 EW3	24	43 52	5.2	2.5	Semi-mature in good condition. Moss on stem.	2A A2	Moderate
331		<i>Populus nigra</i> Lombardy Poplar	60	NS4 EW3	25	50/10 70	6.1	2.9	Semi-mature in good condition. Moss on stem.	2A A2	Moderate
332		<i>Populus nigra</i> Lombardy Poplar	25	3	20	25 30	3.0	2.0	Immature in good condition.	1A A1	Low
333		<i>Populus nigra</i> Lombardy Poplar	45	3	22	30/10 50	3.8	2.5	Semi-mature in good condition.	2A A1	Moderate
334		<i>Populus nigra</i> Lombardy Poplar	45	NS4 EW3	24	35 45	4.2	2.4	Semi-mature in good condition.	2A A1	Moderate
335		<i>Populus nigra</i> Lombardy Poplar	40	NS4 EW3	24	40 50	4.8	2.3	Semi-mature in good condition.	2A A1	Moderate
336		<i>Populus nigra</i> Lombardy Poplar	45	NS4 EW3	24	40 50	4.8	2.5	Semi-mature in good condition.	2A A1	Moderate
337		<i>Populus nigra</i> Lombardy Poplar	45	NS4 EW3	24	36 45	4.3	2.3	Semi-mature in good condition.	2A A1	Moderate
338		<i>Populus nigra</i> Lombardy Poplar	45	3	25	32 45	3.8	2.1	Semi-mature in good condition.	2A A1	Moderate
339	DS06	<i>Populus nigra</i> Lombardy Poplar	45	3	25	37 52	4.4	2.5	Semi-mature in good condition.	2A A1	Moderate
340		<i>Populus nigra</i> Lombardy Poplar	45	3	25	40 50	4.8	2.5	Semi-mature in good condition.	2A A1	Moderate
341	Adjacent T100	<i>Populus nigra</i> Lombardy Poplar	40	3	23	38 42	4.6	2.3	Semi-mature in good condition.	2A A1	Moderate
342	columnar hedge continues	<i>Populus nigra</i> Lombardy Poplar	45	3	23	22/22 40	3.7	2.3	Semi-mature in good condition.	2A A1	Moderate
343		<i>Populus nigra</i> Lombardy Poplar	50	3	23	37 48	4.4	2.4	Semi-mature in good condition.	2A A1	Moderate
344		<i>Populus nigra</i> Lombardy Poplar	50	NS4 EW3	24	42 52	5.3	2.5	Semi-mature in good condition.	2A A1	Moderate
345		<i>Populus nigra</i> Lombardy Poplar	50	3	22	47/10 60	5.8	2.7	Semi-mature in good condition.	2A A1	Moderate
346	Last on DS06	<i>Populus nigra</i> Lombardy Poplar	40	NS4 EW3	24	30 40	3.6	2.3	Semi-mature in good condition.	2A A1	Moderate
347	DS05 columnar hedge continues	<i>Populus nigra</i> Lombardy Poplar	50	NS4 EW3	24	42 54	5.0	2.6	Semi-mature in good condition.	2A A1	Moderate
348		<i>Populus nigra</i> Lombardy Poplar	40	NS4 EW3	24	36 50	4.3	2.5	Semi-mature in good condition.	2A A1	Moderate
349		<i>Populus nigra</i> Lombardy Poplar	40	3	20	35 45	4.2	2.4	Semi-mature in good condition.	2A A1	Moderate

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350	Adjacent boundary fence	<i>Populus nigra</i> Lombardy Poplar	40	NS4 EW3	22	32 40	3.8	2.3	Semi-mature in good condition.	2A A1	Moderate
351	council reserve	<i>Populus nigra</i> Lombardy Poplar	40	3	20	40 45	4.8	2.4	Semi-mature in good condition.	2A A1	Moderate
352		<i>Populus nigra</i> Lombardy Poplar	40	3	23	22/22 40	3.7	2.3	Semi-mature in good condition.	2A A1	Moderate
353		<i>Populus nigra</i> Lombardy Poplar	40	2	16	30 40	3.6	2.3	Semi-mature in good condition.	2A A1	Moderate
354		<i>Populus nigra</i> Lombardy Poplar	25	2	21	26 30	3.1	2.0	Immature in good condition and unbalanced canopy.	2D A2	Low
355		<i>Populus nigra</i> Lombardy Poplar	35	3	21	32 40	3.8	2.3	Immature in good condition.	1A A1	Moderate
356		<i>Populus nigra</i> Lombardy Poplar	35	3	20	27 40	3.2	2.3	Immature in good condition.	2A A1	Moderate
357		<i>Populus nigra</i> Lombardy Poplar	30	3	20	26 40	3.1	2.3	Immature in good condition.	1A A1	Low
358		<i>Populus nigra</i> Lombardy Poplar	40	3	12	34 44	4.1	2.3	Semi-mature in good condition.	2A A1	Moderate
359		<i>Stag</i>	30	3	18	25 30	3.0	2.0	Dead dehydrated no hollows.	4A A1	Very low
360	columnar hedge continues	<i>Populus nigra</i> Lombardy Poplar	30	3	18	35/10 40	3.6	2.3	Immature in good condition.	2A A1	Low
361		<i>Populus nigra</i> Lombardy Poplar	30	3	18	26 40	3.1	2.3	Immature in good condition with poor development, minor decay.	1A A2	Moderate
362		<i>Populus nigra</i> Lombardy Poplar	40	3	19	35 40	4.2	2.3	Semi-mature in good condition.	2A A1	Moderate
363		<i>Populus nigra</i> Lombardy Poplar	40	3	21	28/10 40	3.6	2.3	Semi-mature in good condition.	2A A1	Moderate
364		<i>Populus nigra</i> Lombardy Poplar	25	3	21	27/8 40	3.4	2.3	Immature in good condition.	2A A1	Low
365		<i>Populus nigra</i> Lombardy Poplar	25	3	20	25 30	3.0	2.0	Immature in good condition.	2A A1	Moderate
366		<i>Populus nigra</i> Lombardy Poplar	40	3	20	30 40	3.6	2.3	Semi-mature in good condition.	2A A1	Moderate
367		<i>Populus nigra</i> Lombardy Poplar	30	3	18	25 25	3.0	1.9	Semi-mature in good condition.	2A A1	Moderate
368		<i>Populus nigra</i> Lombardy Poplar	30	3	18	36 40	4.3	2.3	Semi-mature in good condition.	2A A1	Moderate
369		<i>Populus nigra</i> Lombardy Poplar	30	3	20	33 45	4.0	2.4	Semi-mature in good condition.	2A A1	Moderate
370		<i>Populus nigra</i> Lombardy Poplar	30	3	19	32 45	3.8	2.4	Semi-mature in good condition.	2A A1	Moderate
371	columnar hedge continues	<i>Populus nigra</i> Lombardy Poplar	25	3	16	30 40	3.6	2.3	Immature in good condition. Minor decay.	1D A2	Low
372		<i>Populus nigra</i> Lombardy Poplar	35	3	20	30 40	3.6	2.3	Semi-mature in good condition.	2A A1	Moderate

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373	Adjacent boundary fence	<i>Populus nigra</i> Lombardy Poplar	35	3	20	30 40	3.6	2.3	Semi-mature in good condition.	2A A1	Moderate
374	council reserve	<i>Populus nigra</i> Lombardy Poplar	35	NS4 EW3	23	35 45	4.2	2.3	Semi-mature in good condition.	2A A1	Moderate
375	DS05	<i>Populus nigra</i> Lombardy Poplar	45	NS4 EW3	24	40 50	4.8	2.5	Semi-mature in good condition.	2A A1	Moderate
376		<i>Stag</i>	20	-	8	25 30	3.0	2.0	Dead dehydrated no hollows.	4A A1	Very low
377		<i>Populus nigra</i> Lombardy Poplar	35	3	23	34 60	4.1	2.7	Semi-mature in good condition.	2A A1	Moderate
378		<i>Populus nigra</i> Lombardy Poplar	35	3	2	30 40	3.6	2.3	Semi-mature in good condition.	2A A1	Moderate
379		<i>Stag</i>	25	-	16	26 35	3.1	2.1	Dead dehydrated no hollows.	4A Z4	Very low
380		<i>Populus nigra</i> Lombardy Poplar	30	3	16	26 30	3.1	2.0	Semi-mature in poor condition, leader broken at 6m and dehydrating.	3C Z5	Low
381		<i>Populus nigra</i> Lombardy Poplar18	30	3	18	33 43	4.0	2.3	Semi-mature in poor condition, main leader damaged at 15metres, broken off and dehydration of lading stem	3C Z5	Low
382		<i>Populus nigra</i> Lombardy Poplar	30	2	5	28 30	3.4	2.0	Semi-mature in poor condition, leader broken at 5m and dehydrating.	3C Z5	Low
383	columnar hedge continues	<i>Populus nigra</i> Lombardy Poplar	30	3	23	32 42	3.8	2.3	Semi-mature in good condition.	2A A1	Moderate
384	Adjacent boundary fence	<i>Populus nigra</i> Lombardy Poplar	40	3	23	38 50	4.6	2.2	Semi-mature in good condition.	2A A1	Moderate
385	council reserve	<i>Populus nigra</i> Lombardy Poplar	30	3	18	28/10 38	3.6	2.2	Semi-mature in poor condition, main leader dehydrating at 12m	3C A2	Low
386	DS05	<i>Populus nigra</i> Lombardy Poplar	30	3	16	30 40	3.6	2.3	Semi-mature decay in northeast at base damaged stem at 8metres. main leader dehydrating at 12m	3C Z5	Low
387		<i>Populus nigra</i> Lombardy Poplar	40	3	23	34 45	4.1	2.4	Semi-mature in good condition.	2A A1	Moderate
388		<i>Populus nigra</i> Lombardy Poplar	40	3	23	35 45	4.2	2.4	Semi-mature in good condition.	2A A1	Moderate
389		<i>Populus nigra</i> Lombardy Poplar	40	3	23	35 50	4.2	2.5	Semi-mature in good condition.	2A A1	Moderate
390		<i>Populus nigra</i> Lombardy Poplar	40	3	23	35 50	4.2	2.5	Semi-mature in good condition.	2A A1	Moderate
391 x6	Adjacent T87	<i>Ulmus minor</i> Field Elm	5	3-5	3-7	10-12 10-15	2.0	1.5	Juvenile and suckering from rootstock in good condition.	1D A2	Low
392	columnar hedge	<i>Ulmus minor</i> Field Elm	20	7	8	20/10x5 40	3.0	2.3	Immature and in good condition with spreading habit in fencelike.	2D A2	Low
393	continues	<i>Populus nigra</i> Lombardy Poplar	35	3	18	30 40	3.6	2.3	Semi-mature in moderate condition.	2A A1	Moderate
394		<i>Populus nigra</i> Lombardy Poplar	35	3	18	30 40	3.6	2.3	Semi-mature in moderate condition.	2A A1	Moderate
395	End of DS05	<i>Ulmus minor</i> Field Elm	35	2	3	10 10	2.0	1.5	Juvenile excellent condition.	2A A1	Moderate

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396	Start DS04	<i>Populus nigra</i> Lombardy Poplar	30	2	18	33 40	4.0	2.3	Immature with decay in leader lean to the northeast and damaged roots on north side. Lifting root plate.	4C Z5	Very Low
397	columnar hedge continues	<i>Populus nigra</i> Lombardy Poplar	35	2	18	38 48	4.6	2.4	Semi-mature in moderate condition.	2A A2	Moderate
398		<i>Stag</i>	25	-	8	25 30	3.0	2.0	Dead no hollows	4C Z4	Very Low
399	columnar hedge continues Adjacent boundary fence council reserve DS04 Adj corner post	<i>Populus nigra</i> Lombardy Poplar	35	3	18	41 50	4.9	2.5	Semi-mature in poor condition with lean to the northwest and root damage, decay on northern primary roots.	3C Z5	Low
400		<i>Populus nigra</i> Lombardy Poplar	35	3	19	40 50	4.8	2.5	Semi-mature in moderate condition.	2A A1	Moderate
401		<i>Populus nigra</i> Lombardy Poplar	25	2	13	26 30	3.1	2.0	Semi-mature with dehydrated main leader at 8metres in poor condition.	3D A2	Low
402		<i>Populus nigra</i> Lombardy Poplar	35	4	20	44 55	5.3	2.6	Semi-mature in moderate condition.	2A A1	Moderate
403		<i>Populus nigra</i> Lombardy Poplar	40	4	20	36 45	4.3	2.4	Semi-mature in moderate condition.	2A A1	Moderate
404		<i>Populus nigra</i> Lombardy Poplar	40	NS4 EW3	19	33 50	4.0	2.5	Semi-mature in moderate condition, previous pruning cuts throughout tree.	2D A2	Moderate
405		<i>Populus nigra</i> Lombardy Poplar	40	NS4 EW3	22	34 50	4.1	2.5	Semi-mature in moderate condition.	2D A1	Moderate
406		<i>Populus nigra</i> Lombardy Poplar	40	NS4 EW3	22	36 50	4.3	2.5	Semi-mature in moderate condition.	2D A1	Moderate
407		<i>Populus nigra</i> Lombardy Poplar	40	NS4 EW3	22	40 55	4.8	2.6	Semi-mature in poor condition. Root damage on norther roots at 1-2metres from stem	3D Z5	Moderate
408		<i>Populus nigra</i> Lombardy Poplar	40	NS4 EW3	22	36 50	4.3	2.5	Semi-mature in moderate condition, Main leader stem damaged at 18metres.	2D Z4	Moderate
409	columnar hedge continues DS04	<i>Populus nigra</i> Lombardy Poplar	35	NS4 EW3	8	30 44	3.6	2.3	Semi-mature with broken leader at 9metres from base, poor condition	3C Z5	Low
410		<i>Populus nigra</i> Lombardy Poplar	45	NS4 EW3	23	43 60	5.2	2.7	Semi-mature in moderate condition.	2D A1	Moderate
411		<i>Populus nigra</i> Lombardy Poplar	35	3	21	30 40	3.6	2.3	Semi-mature in moderate condition with 10% dehydration in upper canopy.	3D Z5	Moderate
412		<i>Populus nigra</i> Lombardy Poplar	40	NS4 EW3	23	35 50	4.2	2.5	Semi-mature minor dehydration in lower canopy. Poor condition.	3D Z5	Moderate
413		<i>Populus nigra</i> Lombardy Poplar	35	3	15	36 40	4.3	2.3	Semi-mature with a hollow at 5metres(20cmx20cm) Broken leader at6mtres with epicormic growth. Fauna likely to nest and roost*	4C Z5	Very low
414		<i>Populus nigra</i> Lombardy Poplar	40	3	23	34 50	4.1	2.5	Semi-mature in moderate condition.	2D A1	Moderate
414a	1 m southwest of T415	<i>Populous deltoides</i> Cottonwood Poplar	5	3	8	10 12	2.0	1.5	Immature lean to the southwest in moderate condition.	1A A2	low
415	columnar hedge continues DS04	<i>Populus nigra</i> Lombardy Poplar	40	3	23	33 50	4.0	2.5	Semi-mature in moderate condition.	2D A1	Moderate
416		<i>Populus nigra</i> Lombardy Poplar	25	3	20	26 40	3.1	2.3	Semi-mature in moderate condition.	2D A1	Moderate

Tree No	Location	Scientific Name Common Name	AGE years	Crown (m)	Height (m)	DBH* DRC (cm)	TPZ* (m)	SRZ* (m)	Visual Tree Assessment (VTA) – Tree Health & Condition	TULE* A-Z	Retention Value
417		<i>Populus nigra</i> Lombardy Poplar	40	4	23	37 60	4.4	2.7	Semi-mature in moderate condition.	2D A1	Moderate
418	End columnar poplars at Brabham Road	<i>Populus nigra</i> Lombardy Poplar	50	NS4 EW4	23	50 70	6.0	2.9	Semi-mature in moderate condition and dehydrated east stem at 8metrea &16metres from base. Root damage.	3D Z5	Moderate
WITHIN THE PADDOCKS											
419	DS09 Dairy creek Rd	<i>Crataegus sp.</i> Hawthorn	20	3	3	10/10/10 30	2.0	2.0	Immature in moderate condition with poor development	2D A2	Low
420	DS07 Central of lot	<i>Stag</i>	60	-	10	85 86	2.0	3.1	Dead with possible habitat- (Microbat may be utilising the under-bark area). Ecologist to check	4A A2	Low
421		<i>Stag</i>	40	-	5	34 35	10.2	2.1	Dead with possible habitat value.	4C A2	Very Low
422	D506 Adjacent swale	<i>Salix alba</i> White Willow	50	N4S3E5W 6	8	60 70	4.1	2.9	EXEMPT SPECIES Mature and in moderate condition, Scar on the stem to 1 metre indicates possible weakness in stem.	3D A2	Low
423 x2	D507 Centre of Lot Nth Brabham	<i>Crataegus sp.</i> Hawthorn	20	6	5	10x4 40	7.2	2.3	Mature and poor condition with likely fauna protection when foraging	3A A2	Low
424 x2		<i>Crataegus sp.</i> Hawthorn	20	4	5	10 10	2.6	1.5	Semi-mature in moderate condition. Likely fauna protection when foraging. (Deciduous).	2D A2	Low
425		<i>Stag</i>	25	-	5	15 20	2.0	1.5	Dead no hollows. Lean is extensive to the south.	4A Z5	Very low
426		<i>Crataegus sp.</i> Hawthorn	25	N3S3E4W 4	5	10x6 40	2.0	2.3	Mature moderate condition and cavity at base with root damage. Likely fauna protection when foraging. (Deciduous)	3C A2	Low
427		<i>Crataegus sp.</i> Hawthorn	15	3	3	10 20	2.4	1.7	Immature, moderate condition, likely fauna protection when foraging. (Deciduous)	2D A2	Low
428		<i>Crataegus sp.</i> Hawthorn	15	3	3	10x5 30	2.0	2.0	Immature, moderate condition likely fauna protection when foraging. (Deciduous)	3A A2	Low
SEWER AND WATER LINE											
429	84 Brabham way Fenceline	<i>Fraxinus angustifolia</i> Claret Ash	50	8	12	70 75	8.4	2.9	Mature, lean to west, suppressed canopy on north, good condition but poor development.	3A A2	Moderate
430		<i>Cupressus glabra.</i> Pine	30	6	13	30/20 40	4.3	2.3	Semi-mature, previously pruned, suppressed due to competition, good condition.	3C Z5	Low
431		<i>Cupressus glabra.</i> Pine	30	8	11	44/40 55	7.0	2.5	Semi-mature, lean to west, suppressed.	2A Z5	Moderate
432		<i>Betula penda</i> Silver Birch	10	6	10	20/10 25	2.6	1.8	Immature, good condition, lean to east.	3A Z5	Low
433	Brabham Way	<i>Betula penda</i> Silver Birch	12	8	16	32 40	3.8	2.2	Semi-mature, leader damaged at 12m, good condition but poor development.	3A Z5	Moderate
434		<i>Populus nigra</i> Lombardy Poplar	8	3	8	21/25 50	3.9	2.4	Semi-mature, good condition but poor development.	3A A2	Low
435	On bank of swale	<i>Populus nigra</i> Lombardy Poplar	8	4	8	70 75	8.4	2.9	Semi-mature, previously pruned at 5m.	3D A2	Low
436	Brabham Way	<i>Populus nigra</i> Lombardy Poplar	5	1	7	10/15 10	2.1	1.5	Immature, epicormic growth.	1C A2	Very low
437	Brabham Way	<i>Eucalyptus bridgesiana</i> Apple Gum	60	E16 W10 N8 S5	14	25/10/40 40	5.7	2.2	Immature, sparse foliage to east, ivy, lean to south eat, moderate condition.	2D Z5	Low

Tree No	Location	Scientific Name Common Name	AGE years	Crown (m)	Height (m)	DBH* DRC (cm)	TPZ* (m)	SRZ* (m)	Visual Tree Assessment (VTA) – Tree Health & Condition	TULE* A-Z	Retention Value
438	8m off the fenceline Private tree	<i>Eucalyptus bridgesiana</i> Apple Box	45	8	10	25/15 26	3.4	1.8	Immature, sparse foliage to east, good condition but poor development.	2A A2	Low
439	On bank of swale 10m off the west fence. Private tree	<i>Eucalyptus melliodora</i> Yellow box	80	12	22	25/25/25 35	5.1	2.1	Mature good condition, dehydrated slightly at 2m, minor deadwood. Possible HABITAT tree	3A A2	High
440	5m off fence 7m Northeast of pole	<i>Eucalyptus scoparia</i> White Gum	40	9	15	45 50	5.4	2.5	Semi-mature, good condition.	2A A1	Moderate
441	Brabham Way 8m north of pole	<i>Eucalyptus scoparia</i> White Gum	20	6	13	20 25	2.4	1.8	Immature, good condition but under development.	2A A2	Moderate
442	8m Northwest North of pole	<i>Eucalyptus scoparia</i> White Gum	15	6	11	20 25	2.4	1.8	Immature, good condition but under development.	2A A2	Low
443	Brabham Way 6m from fence	<i>Acacia species</i> Wattle	15	6	9	20 20	2.4	1.6	Semi mature good condition. Lean to south.	3A A2	Low
444	Brabham Way 6m from fence	<i>Eucalyptus melliodora</i> Yellow Box	40	8	14	20/20 48	3.3	2.4	Semi-mature, inclusion at 16m.	2A Z5	Moderate
445	Brabham Way 6m from fence	<i>Eucalyptus camaldulensis</i> River Redgum	30	8	18	30 32	3.6	2.0	Semi-mature, moderate condition.	2A A2	Moderate
446	Brabham Way 5m from fence	<i>Eucalyptus melliodora</i> Yellow Box	40	10	18	50 55	6.0	2.5	Semi-mature, moderate condition.	2A A2	Moderate
447	5m off fence Private tree	<i>Acacia species</i> Wattle	10	6	5	40 40	4.8	2.2	Juvenile, good condition but under development.	3C A2	Very low
448	5m off fence Private tree	<i>Eucalyptus bridgeanna</i> Apple Box	25	4	14	20/10 25	2.6	1.8	Immature, good condition.	2D A1	Low
449	5m off fence Private tree	<i>Eucalyptus nicholii</i> , Narrow-leaved peppermint	35	10	14	40 50	4.8	2.5	Semi-mature in good condition with insect attack in the canopy (Leaf eaters)	2D Z5	Moderate
450	5m off fence Private tree	<i>Eucalyptus camaldulensis</i> River Redgum	30	6	14	27 30	3.2	2.0	Immature in good condition and healthy canopy.	2A A2	Moderate
451	5m off fence Private tree	<i>Eucalyptus nicholii</i> , Narrow-leaved peppermint	30	9	16	25 30	3.0	2.0	Semi-mature in good condition.	2A A1	Moderate
452	5m off fence Private tree	<i>Eucalyptus melliodora</i> Yellow box	30	10	12	30 40	3.6	2.3	Semi mature in good condition.	2A A1	Moderate
453	Adjacent fence 1metre Private tree	<i>Crataegus monogyna</i> Hackberry	30	6	6	20/15 30	3.0	2.0	Semi mature in good condition.	2A A1	Low
454	Adjacent fence Private tree	<i>Eucalyptus nicholii</i> , Narrow-leaved peppermint	35	8	12	27/20/27 25	5.2	1.9	Semi mature, multi-stemmed in fair condition. One leader to the south pruned at one metre.	2A Z5	Moderate
455	Brabham Way Street Tree 3m off Telstra pit.	<i>Acacia species</i> Wattle	8	4	7	14 15	2.0	1.5	Juvenile with canopy toward the road.	3D A1	Very Low
456	Brabham Way Street in swale.	<i>Acacia species</i> Wattle	4	1	4	<10 <10	2.0	1.5	Juvenile some dehydrated completely, Dying.	4A Z4	Very Low

Tree No	Location	Scientific Name Common Name	AGE years	Crown (m)	Height (m)	DBH* DRC (cm)	TPZ* (m)	SRZ* (m)	Visual Tree Assessment (VTA) – Tree Health & Condition	TULE* A-Z	Retention Value
457	Brabham Way Street Tree	<i>Acacia species</i> Wattle	4	3	6	10 10	2.0	1.5	Immature lean to the south, moderate condition.	3A A1	Very Low
458	Brabham Way Street Tree	<i>Acacia species</i> Wattle	4	2	3	5 5	2.0	1.5	Juvenile excellent condition.	3A A1	Low
459	Brabham Way Street Tree	<i>Pinus radiata</i> Pine	50	10	20	44/30 44	6.3	2.3	EXEMPT SPECIES Semi mature triple stem with inclusions,	3A A1	Very Low
460	Lone Pine Ave Street Tree	<i>Malus Spp.</i> Apple	20	6	7	10/10/10 25	2.0	1.8	EXEMPT SPECIES Immature with multiple stems.	2C A1	Very Low
461	Lone Pine Ave Street Tree	<i>Acer buergerianum</i> Trident Maple	15	5	4	10/10/10 22	2.0	1.7	Immature with heavy pruned branches	3A A2	Low
462	Lone Pine Ave Street Tree	<i>Callistemon viminalis</i> Red Bottlebrush	30	6	4	14/14/14 30	2.8	2.0	Immature with unbalanced canopy and heavy pruned branches	3A A2	Very Low
463	Lone Pine Ave Street Tree	<i>Fraxinus angustifolia</i> Claret Ash	40	6	10	38 45	4.6	2.4	Mature with fungal colonisation on stem.	2D Z5	Moderate
464	No 109 (Private tree) adjacent fence and drive.	<i>Liquidambar styraciflua</i> Sweetgum	15	10	10	30* 32	2.4	1.8	Immature, previously pruned with unbalanced canopy.	2A A2	Low
465	Lone Pine Ave Street Tree	<i>Fraxinus angustifolia</i> Claret Ash	30	10	10	38/23/34 63	6.7	2.7	Mature with fungal colonisation on stem. Canopy full bodied.	2D Z5	Moderate
466	Street Tree Mitchell Hwy opposite Redmond Pl.	<i>Quercus palustris</i> Pin oak	20	8	8	24 28	2.9	1.9	Immature in good condition.	2A A1	Moderate
467	Adjacent pole- 4metres	<i>Quercus palustris</i> Pin oak	20	8	8	30 30	3.6	2.0	Immature in good condition	1A A1	Moderate
468		<i>Quercus palustris</i> Pin oak	20	8	9	25 32	3.0	2.1	Immature with physical damage of rubbing canopy on signage.	2A A1	Moderate
469	Brabham Way Opp Kurim Ave	<i>Crataegus sp.</i> Hawthorn	20	4	5	10 10	2.0	1.5	Semi-mature in moderate condition. Likely fauna protection when foraging. (Deciduous).	2D A2	Low
470 (x38)	From Lone Pine to Elsham Ave	<i>Quercus Robra</i> Northern Red Oak	3	<less than 1	3-4	10 10	2.0	1.5	Planted row, immature in good condition.	2A A1	Low

4.2 Impact Assessment

4.3.1 The assessment evaluates the impacts of the proposed development on the TPZ, categorising the impacts based on the extent of TPZ encroachments. Encroachments under 10% are **minor**, encroachments between 10-20% are **moderate**, while those exceeding 20% are considered **major**.

Table 4: Summary of TPZ Encroachment

Tree	Common Name	Retention Value	TPZ (m) <i>r</i>	TPZ % <i>E</i>
8	Cottonwood Poplar	Very Low	4	100%
9	Ornamental pear	Very Low	4	100%
10	Witch Hazel	Low	2	100%
11	Witch Hazel	Low	2	100%
12	Witch Hazel	Low	2	100%
13	Witch Hazel	Low	2	100%
14	Hawthorn	Low	2.9	100%
15	Witch Hazel	Low	2.0	100%
16	Witch Hazel	Low	2.6	100%
17	Prunus spp.	Low	2	100%
22	Silver Birch	Moderate	4.2	17.6%
23	Silver Birch	Low	2	16%
24	Silver Birch	Moderate	2.5	30.9%
25	Silver Birch	low	2	13.7%
26	Silver Birch	low	2	16%
28	Pittosporum	Moderate	2	39.2%
29	Pittosporum	Low	2.2	30.7%
30	Pittosporum	Low	3	38.6%
32	Elm spp.	Low	4.2	edging line
33	Elm spp.	Low	2	edging line
34	Arizona cypress	Moderate	5.9	edging line
35	Arizona cypress	Moderate	4.4	8.9%
36	Arizona cypress	Moderate	3.8	26.4%
40	Wych Elm	Low	2	edging line
98	Apple Box	High	13	0.7%
229	Lombardy Poplar	Moderate	4.9	1.8%
230	Lombardy Poplar	Moderate	5.6	2.9%
231	Lombardy Poplar	Moderate	5.5	1.6%
237	Lombardy Poplar	Moderate	7.2	19.7%
238	Lombardy Poplar	Moderate	5.4	16.7%
240	Lombardy Poplar	Moderate	4.8	2%
325	Lombardy Poplar	Moderate	4.3	4%
326	Lombardy Poplar	Moderate	3.7	10.9%
327	Lombardy Poplar	Moderate	4.8	13.5%
328	Lombardy Poplar	Moderate	4.6	2%
359	stag	very low	3	4.2%
360	Lombardy Poplar	Low	3.6	9.3%
399	Lombardy Poplar	Low	4.9	5%
400	Lombardy Poplar	Moderate	4.8	3%
402	Lombardy Poplar	Moderate	5.3	10%
403	Lombardy Poplar	Moderate	4.3	4.9%
405	Lombardy Poplar	Moderate	4.1	1%
406	Lombardy Poplar	Moderate	4.3	4%
407	Lombardy Poplar	Moderate	4.8	2%
417	Lombardy Poplar	Moderate	0.4	2%
418	Lombardy Poplar	Moderate	6	8%
420	Stag	low	2	100%
421	Stag	very low	10.2	100%
422	White Willow (EXEMPT Spp.)	Low	4.1	56%
423 x 2	Hawthorn	Low	7.2	100%
424 x 2	Hawthorn	Low	2.6	100%
425	stag	very low	2	100%
426	Hawthorn	Low	2	100%
428	Hawthorn	Low	2	100%
455	Wattle	Very low	2.0	11%
456	Wattle	Very low	2.0	8%
457	Wattle	Very low	2.0	15%
458	Wattle	Low	2.0	8%
459	Radiata Pine (EXEMPT Spp.)	Very Low	6.3	24%
460	Apple (EXEMPT Spp.)	Very low	2.0	10%
462	Red Bottlebrush	Very low	2.8	1%
464	Sweetgum	Low	2.4	1%

5. DISCUSSION

5.0.1 Four hundred and seventy (470) tree groups (consisting of 566 individual trees) were assessed on site, neighbouring properties and within the public domain.

5.1 Tree Useful Life Expectancy (TULE) and Landscape Significance

5.1.1 Thirty-five (35) tree groups (consisting of 110 Individual trees) are rated as **long TULE (1A 1B 1C)** rating indicating a useful life expectancy of more than 40 years. These trees are numbered 6, 83, 84, 85(x7), 93(x7), 99(x5), 144, 145, 151, 158, 165, 177(x7), 187, 249, 250, 269, 270, 271, 272, 273, 277, 279, 290, 297, 305, 313, 332, 355, 357, 361, 371, 391(x6), 436, 467, 148b(x6), 414a, 155a, 155b(x3), 470(x38).

5.1.2 Three hundred and forty-eight (348) tree groups (consisting of 359 individual trees) are rated as having a **medium TULE (2A 2B 2C 2D)** rating indicating a useful life expectancy of 15 to 40 more years with adequate intervention works. These trees are numbered 1, 3, 4, 5, 7, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 32, 33, 34, 35, 36, 37, 38, 39, 40, 43, 44, 45, 47, 48, 57, 59, 60, 62, 63, 64, 65, 68, 69(x2), 70(x2), 71, 72, 73(x2), 74, 75, 76, 77, 78, 79, 80, 81, 82, 86, 91, 92, 94, 98, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 130, 131, 132, 133, 134, 135, 136, 137, 139, 140, 141, 143, 147, 148, 148a(x2), 152, 153, 154, 155, 156, 157, 159, 160, 161, 162, 163, 164, 166, 167, 168a, 168b, 169b, 172, 173, 174, 175, 176, 178, 179, 180, 181, 182, 183, 184, 186, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 200, 201, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 250a, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 274, 275, 276, 278, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 291, 292, 293, 294, 295, 296, 298, 299, 300, 301, 302, 303, 304, 306, 307, 308, 309, 310, 311, 312, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 356, 358, 360, 362, 363, 364, 365, 366, 367, 368, 369, 370, 372, 373, 374, 375, 377, 378, 383, 384, 387, 388, 389, 390, 392, 393, 394, 395, 397, 400, 402, 403, 404, 405, 406, 408, 410, 414, 415, 416, 417, 419, 424(x2), 427, 431, 437, 438, 440, 441, 442, 444, 445, 446, 448, 449, 450, 451, 452, 453, 454, 460, 463, 464, 465, 466, 468, 469.

5.1.3 Seventy (70) tree groups (consisting of 73 individual trees) are rated as **short TULE (3A 3B 3C 3D)** rating indicating a useful life expectancy of 5 to 15 more years with substantial intervention works. These trees are numbered 31, 42, 46, 49, 50, 51, 52, 53, 54, 55, 56, 58, 66, 67, 87, 88, 89, 90, 95, 96, 97, 123, 124, 125, 126, 127, 128, 129, 138, 142, 149, 168(x3), 169, 170, 171, 185, 199, 202, 227, 380, 381, 382, 385, 386, 399, 401, 407, 409, 411, 412, 418, 422, 423(x2), 426, 428, 429, 430, 432, 433, 434, 435, 439, 443, 447, 455, 457, 458, 459, 461, 462.

5.1.4 Sixteen (16) tree groups (consisting of 20 individual trees) are rated as **remove TULE (4A 4B 4C)** rating due to instability or dead; numbered 2, 9, 41, 61, 146, 150(x4), 169a, 359, 376, 379, 396, 398, 413, 420, 421, 425, 456.

5.1.5 One (1) tree group (consisting of 4 individual trees) are rated as **hazardous TULE (5E 5C)** rating due to instability, numbered 8, 227a, 228a and 230a.

5.2 Retention Values

5.2.1 Retention values are established by evaluating both the factors of TULE and Landscape Significance. (Appendix C, D & E). Retention values are determined as follows.

Table 5: Retention Values

High 13 trees	Moderate 322 (324 individual trees)	Low 114 (201 individual trees)	Very Low 21 (28 Individuals)
89, 90, 92, 96, 97, 98, 126, 127, 128, 129, 149, 186, 439.	22, 24, 27, 34, 35, 36, 42, 43, 44, 45, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 59, 60, 62, 63, 64, 65, 66, 67, 68, 74, 76, 77, 78, 79, 80, 86, 87, 88, 91, 94, 95, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 130, 131, 132, 134, 135, 136, 137, 139, 140, 142, 143, 148, 152, 153, 154, 156, 157, 159, 160, 161, 162, 163, 164, 166, 167, 168a, 168b, 170, 171, 172, 173, 174, 175, 176, 178, 179, 180, 181, 182, 183, 184, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 240, 241, 242, 243, 244, 245, 246, 247, 248, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 274, 275, 276, 278, 280, 281, 282, 283, 285, 286, 287, 288, 289, 291, 292, 293, 294, 295, 296, 298, 299, 300, 301, 302, 303, 304, 306, 307, 308, 309, 310, 311, 312, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 355, 356, 358, 361, 362, 363, 365, 366, 367, 368, 369, 370, 372, 373, 374, 375, 377, 378, 383, 384, 387, 388, 389, 390, 393, 394, 395, 397, 400, 402, 403, 404, 405, 406, 407, 408, 410, 411, 412, 414, 415, 416, 417, 418, 429, 431, 433, 440, 441, 444, 445, 446, 447, 450, 451, 452, 454, 463, 465, 466, 467, 468.	1, 2, 3, 4, 5, 6, 7, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 23, 25, 26, 28, 29, 30, 31, 32, 33, 37, 38, 39, 40, 46, 57, 58, 69(x2), 70(x2), 71, 72, 73(x2), 75, 81, 82, 83, 84, 85(x7), 93(x7), 99(x5), 133, 138, 141, 144, 145, 148a(x2), 148b(x6), 150(x4), 151, 153a, 155, 155a, 158, 165, 168(x3), 169, 169b, 177(x7), 185, 187, 239, 249, 250, 250a, 273, 277, 279, 284, 290, 297, 305, 313, 332, 354, 357, 360, 364, 371, 380, 381, 382, 385, 386, 391(x6), 392, 399, 401, 409, 414a, 419, 423(x2), 424(x2), 426, 427, 428, 430, 432, 434, 435, 437, 438, 442, 443, 449, 453, 458, 461, 464, 469, 470(x38). Dead: 420. Exempt Species: 422	8, 9, 41, 61, 146, 147, 155b(x3), 169a, 396, 413, 436, 448, 455, 457, 462. Dead: 227a, 228a, 230a, 359, 376, 379, 398, 421, 425. Exempt Species: 459, 460.

5.3 Cumulative Impact Analysis

MAP #DS03 and DS04

5.3.1 **Trees 8 to 17** have *Low to Very Low Retention Values* and are significantly impacted by encroachments from the proposed footpath. In addition, trees 10-13 *Witch Hazel* have thorny branches and pose a hazard. As these trees are of low significance they will be removed.

5.3.2 **Trees 22, 23, 24** (*Silver Birch*) with *Moderate to Low Retention Values*. The trees have encroachments ranging from 17.6%, 16 and tree 26 has a major impact of 30.9%. The trees have low significance will be removed.

5.3.3 **Trees 28 to 30** (*Pittosporum*) have major encroachments ranging from 30.7%- 39.2%. The proposed footpath is within the TPZ of these trees therefore the trees will be removed.

5.3.4 **Trees 32, 36 and 40** have a minor impact from the proposed garden edging. The trees will be retained, and edging must remain at ground level with no excavation greater than 100mm.

5.3.5 **Tree 399, 400, 402, 403, 405, 406, 407, 417 and 418** (*Lombardy Poplar*) have minor encroachment from earthworks and footpath will be retained and protected.

MAP #DS05 & DS06

5.3.6 **Trees 359** is dead and **360** (*Lombardy Poplar*) has Low Retention Value and a minor encroachment of 9.3%. The tree can be retained and protected.

5.3.7 **Trees 326-327** (*Lombardy Poplar*) have moderate encroachments from the playground equipment. Both trees can be retained, and excavation must remain outside the SRZ.

5.3.8 **Tree 422** (*Willow*) is an exempt species under the Orange City Council DCP and has a major encroachment of from proposed earthworks and road of 56%. The tree will be removed.

MAP #DS07

5.3.9 **Trees 237 and 238** (*Lombardy Poplar*) have a moderate encroachment from the swale related earthworks. Although tree 237 is subject to 19.7% impact. The proposed earthworks are expected to improved water dispersion in the swale area where the tree is located, which will be beneficial to the tree in the long term. Both trees can be retained, and excavation must remain outside the SRZ.

5.3.10 **Trees 420, 421, 425**, are dead.

5.1.11 **Trees 423(x2), 424(x2), 426, 427, 428** (*Hawthorn*) have Low retention Values and 100% encroachments from the subdivision. The trees require removal.

SEWER AND WATER PLANS (*Brabham Way*)

5.3.12 **Trees 455, 456, 457, 458** (*wattle*) have encroachment ranging from 8%-15%, these trees are immature and insignificant, however they can be retained. Adjust lead-in alignment to follow the verge of Brabham Way to minimise impacts on the existing trees.

5.3.13 **Tree 459** (*Radiata Pine*) and **460** (*Apple spp.*) are exempt species under the Orange City Council DCP and have an encroachments of 24% and 10%. The tree can be retained and protected.

5.3.14 **Tree 462** (*Bottlebrush*) has a minor encroachment of 1% and can be retained and protected.

5.3.15 **Tree 464** (*Sweetgum*) is located adjacent Adina Cres. The tree has a minor impact of 1% and can be retained and protected.

5.4 Trees Proposed For Removal

Table 6: Summary of Tree Removals based on Retention Values.

Remove 28 (33 Individual trees)			
High -	Moderate 3	Low 20 (22 individuals)	Very Low 7 (10 Individuals)
-	22, 24, 27.	2, 10, 11, 12, 13, 14, 15, 16, 17, 23, 28, 29, 30, 423(x2), 424(x2), 426, 427, 428. Dead: 420. Exempt species: 422.	8, 9. Dead: 227a, 228a, 230a, 359, 376, 398, 421, 425.

5.4.2 **Tree removal and pruning** are subject to Council approval, and a permit may be required. Please check with your local government authority (LGA) for specific requirements.

5.4.3 Development without consent is subject to Review of Environmental Factors (REF) and endorsed under the requirements of the State Environmental Planning Policy (SEPP) (Transport and Infrastructure) 2021, as the mitigation measures will act as 'conditions of consent' that ensure that any impacts are not deemed to be 'significant' therefore requiring preparation of an EIS.

5.4.4 **Suitably Qualified Arborist** must have a minimum AQF 3 and work in accordance with Australian Standard® AS 4373 2007 Pruning of Amenity Trees, Work Health & Safety (WHS) Act 2011 and the WHS Regulations 2017, the Safe Work Guide to Managing Risks of Tree Trimming and Removal Work (2016) and the Code of Practice for The Amenity Tree Industry (1998). Work near powerlines must be carried out in accordance with the Code of Practice for Work Near Overhead Power Lines (SafeWork NSW). Tree contractors shall be members of Tree Contractors Association Australia (TCAA) or Arboriculture Australia (AA) and hold Workers Compensation and Public Liability Insurance to operate legally and responsibly. Tree contractors must liaise with the consulting arborist to ensure that pruning and / or removal is in accordance with specifications.

5.5 Canopy Cover Loss

5.5.1 Canopy Cover Loss calculation ($(r)^2 \times \pi$), **excludes** trees with an exempt species and dead trees.

Table 7: Existing canopy cover for retained trees.

Canopy Diameter (m)	Canopy area (per tree m ²)	Trees	Count	Total Loss (m ²)
3	7.068	11, 13, 427, 428.	4	28.272
4	12.566	10, 12, 16, 23, 424(x2),	5(6)	75.369
5	19.634	29.	1	19.634
6	28.274	14, 15, 17, 28, 30, 422, 423(x2), 462,	8(9)	254.466
7	38.484	8.	1	38.484
10	78.539	9, 464.	2	157.078
Total			21(23)	573.33m ²

5.6 Replenishment Planting

5.6.1 Twenty-three (23) trees are proposed for removal, resulting in a canopy loss of 573m².

5.6.2 The replacement of twenty-three (23) trees is expected to achieve a 10-metre canopy diameter at maturity and projected to establish a total canopy cover of 1806m². A landscape plan will detail the replacement planting to ensure the new trees effectively offset the canopy loss.

5.6.3 Consideration must be given trees endemic to the local area or native trees already part of the vegetation community on site. New plantings are to be completed in accordance with NATSPEC (Clark 2003) guidelines and Australian Standard ® AS 2303-2018 Tree Stock for Landscape Use (Appendix F) and where possible at least 3-5 metres away from buildings, away from power lines, hard-surfaces, infrastructure and underground services.

5.7 Trees Proposed For Retention

Table 8: Summary of Tree Retentions based on Retention Values.

Retain 442 (533 individual trees)			
High 13 trees	Moderate 319 (321 individual trees)	Low 96 (181 Individuals)	Very Low 14 (18 Individuals)
89, 90, 92, 96, 97, 98, 126, 127, 128, 129, 149, 186, 439.	34, 35, 36, 42, 43, 44, 45, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 59, 60, 62, 63, 64, 65, 66, 67, 68, 74, 76, 77, 78, 79, 80, 86, 87, 88, 91, 94, 95, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 130, 131, 132, 134, 135, 136, 137, 139, 140, 142, 143, 148, 152, 153, 154, 156, 157, 159, 160, 161, 162, 163, 164, 166, 167, 168a, 168b, 170, 171, 172, 173, 174, 175, 176, 178, 179, 180, 181, 182, 183, 184, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 240, 241, 242, 243, 244, 245, 246, 247, 248, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 274, 275, 276, 278, 280, 281, 282, 283, 285, 286, 287, 288, 289, 291, 292, 293, 294, 295, 296, 298, 299, 300, 301, 302, 303, 304, 306, 307, 308, 309, 310, 311, 312, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 355, 356, 358, 361, 362, 363, 365, 366, 367, 368, 369, 370, 372, 373, 374, 375, 377, 378, 383, 384, 387, 388, 389, 390, 393, 394, 395, 397, 400, 402, 403, 404, 405, 406, 407, 408, 410, 411, 412, 414, 415, 416, 417, 418, 429, 431, 433, 440, 441, 444, 445, 446, 447, 450, 451, 452, 454, 463, 465, 466, 467, 468.	1, 2, 3, 4, 5, 6, 7, 16, 18, 19, 20, 21, 25, 26, 31, 32, 33, 37, 38, 39, 40, 46, 57, 58, 69(x2), 70(x2), 71, 72, 73(x2), 75, 81, 82, 83, 84, 85(x7), 93(x7), 99(x5), 133, 138, 141, 144, 145, 148a(x2), 148b(x6), 150(x4), 151, 153a, 155, 155a, 158, 165, 168(x3), 169, 169b, 177(x7), 185, 187, 239, 249, 250, 250a, 273, 277, 279, 284, 290, 297, 305, 313, 332, 354, 357, 360, 364, 371, 380, 381, 382, 385, 386, 391(x6), 392, 399, 401, 409, 414a, 419, 430, 432, 434, 435, 437, 438, 442, 443, 449, 453, 458, 461, 464, 469, 470(x38).	41, 61, 146, 147, 155b(x3), 169a, 376, 396, 413, 436, 448, 455, 457, 462. Exempt species: 459, 460.

6. RECOMMENDATION

6.0.1 Four hundred and seventy (470) tree groups (consisting of 566 individual trees) were assessed on site, neighbouring properties and within the public domain.

Table 9: Summary of Tree Management Plan based on Retention Values.

Remove 28 (33 Individual trees)			
High -	Moderate 3	Low 18 (20 individuals)	Very Low 7 (10 Individuals)
-	22, 24, 27.	10, 11, 12, 13, 14, 15, 17, 23, 28, 29, 30, 423(x2), 424(x2), 426, 427, 428. Dead: 420. Exempt species: 422.	8, 9. Dead: 227a, 228a, 230a, 359, 376, 398, 421, 425,
Retain 442 (533 individual trees)			
High 13 trees	Moderate 319 (321 individual trees)	Low 96 (181 Individuals)	Very Low 14 (18 Individuals)
89, 90, 92, 96, 97, 98, 126, 127, 128, 129, 149, 186, 439.	34, 35, 36, 42, 43, 44, 45, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 59, 60, 62, 63, 64, 65, 66, 67, 68, 74, 76, 77, 78, 79, 80, 86, 87, 88, 91, 94, 95, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 130, 131, 132, 134, 135, 136, 137, 139, 140, 142, 143, 148, 152, 153, 154, 156, 157, 159, 160, 161, 162, 163, 164, 166, 167, 168a, 168b, 170, 171, 172, 173, 174, 175, 176, 178, 179, 180, 181, 182, 183, 184, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 240, 241, 242, 243, 244, 245, 246, 247, 248, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 274, 275, 276, 278, 280, 281, 282, 283, 285, 286, 287, 288, 289, 291, 292, 293, 294, 295, 296, 298, 299, 300, 301, 302, 303, 304, 306, 307, 308, 309, 310, 311, 312, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 355, 356, 358, 361, 362, 363, 365, 366, 367, 368, 369, 370, 372, 373, 374, 375, 377, 378, 383, 384, 387, 388, 389, 390, 393, 394, 395, 397, 400, 402, 403, 404, 405, 406, 407, 408, 410, 411, 412, 414, 415, 416, 417, 418, 429, 431, 433, 440, 441, 444, 445, 446, 447, 450, 451, 452, 454, 463, 465, 466, 467, 468.	1, 2, 3, 4, 5, 6, 7, 16, 18, 19, 20, 21, 25, 26,, 31, 32, 33, 37, 38, 39, 40, 46, 57, 58, 69(x2), 70(x2), 71, 72, 73(x2), 75, 81, 82, 83, 84, 85(x7), 93(x7), 99(x5), 133, 138, 141, 144, 145, 148a(x2), 148b(x6), 150(x4), 151, 153a, 155, 155a, 158, 165, 168(x3), 169, 169b, 177(x7), 185, 187, 239, 249, 250, 250a, 273, 277, 279, 284, 290, 297, 305, 313, 332, 354, 357, 360, 364, 371, 380, 381, 382, 385, 386, 391(x6), 392, 399, 401, 409, 414a, 419, 430, 432, 434, 435, 437, 438, 442, 443, 449, 453, 458, 461, 464, 469, 470(x38).	41, 61, 146, 147, 155b(x3), 169a, 379, 396, 413, 436, 448, 455, 457, 462. Exempt species: 459, 460.

6.0.2 Twenty-three (23) replacement plantings are required, in 45L volume pots, after construction, to compensate for the tree removals.

Table 10: Proposed Mitigation Measures.

Tree Protection Measures	
Fence protection	360, 463-465.
Sensitive Construction Measures	
Cut fill excavations – Non-Destructive Digging (NDD)	229-231, 237-238, 401-403, 405-407, 417-418.
Sewer and water line -adjust alignment to avoid TPZ.	455, 456, 457, 458, 459, 460, 462.
Proposed playground area	326-327.
Proposed footpath kerb and gutter	32-36, 360.

7. Mitigation Measures.

7.1 Trees Protection Plan

7.1.1 Trees 463, 464, 465 (adjacent Adina Cres).

- a) **Tree Protection Fencing:** A 1.8-meter-high chain wire mesh fence secured with concrete blocks, must be installed around the designated TPZ. All fencing must comply with AS4687- Temporary Fencing and Hoardings.
- a) **Relocating fences during works within TPZ zones:** Prior to construction, tree protection fencing must be installed to safeguard the TPZ. Clearly mark the TPZs using hi-visibility flags, tape or signage before moving fences. The fence panels should be lifted, not dragged and avoid heavy machinery should be avoided. A qualified arborist or site supervisor must be present on-site during fence relocation to ensure that TPZ boundaries are respected and that no damage occurs to trees or their root systems.

7.2 Sensitive Construction Methods

7.2.1 Trees 455, 456, 457, 458, 459, 460, 464 (Brabham Way Sewer Line)

The proposed lead-in alignment must follow the verge of Brabham Way. During detailed investigation, engineers must minimise impacts on the existing trees and other obstructions by adjusting the alignment to avoid their current locations.

7.2.2 Tree 229-231, 237-238, 401-403, 405-407, 417-418.

- a) **Non-destructive digging (NDD):** Use only low impact excavation techniques within or near the TPZ. Acceptable methods include lightweight tracked excavators, hand tools or high-pressure water vacuums systems. Any structural woody roots 20mm or larger must be cleanly severed to prevent tearing or splintering. Machinery must not track through the TPZ. During excavation all excavated soil must be placed outside the TPZ to avoid compaction and root damage.
- b) **Cut and fill elevation:** Use a tiered system that gradually slopes from the existing ground level, minimizing soil levels changes. The fill and cut depth must not exceed 100mm in the TPZ and fill is to be graded away from the tree stem. Use high-quality fill materials that is porous and well-draining, such as small quantities of mulch or coarse sand, mixed with topsoil. This will prevent soil compaction around tree roots and allow for proper air and water circulation.

7.2.3 Trees 326-327 Playground Area:

- a) **Excavations:** Any soil depth changes must not exceed 100mm in the TPZ and fill is to be graded away from the tree stem. Use high-quality fill materials that is porous and well-draining, such as small quantities of mulch or coarse sand, mixed with topsoil. This will prevent soil compaction around tree roots and allow for proper air and water circulation. To protect root health and maintain gaseous exchange, use a gap-graded fill material- such as 40mm gravel- to a depth of 100mm. If any structural roots 20mm or larger are encountered and require severing, consult the AQF5 Project Arborist.

7.2.4 Trees 32-36 and 360.

- a) **Kerb, gutter and footpath:** Footpaths within TPZ are to remain in place until after construction is complete. These paths should be demolished during the landscaping phase under the direction of the AQF 5 arborist. Footpaths must be constructed at grade by raking to expose the topsoil, ensuring minimal disturbance to tree roots. To protect root health and maintain gaseous exchange, use a gap-graded fill material- such as 40mm gravel- to a depth of 100mm. If any structural roots 20mm or larger are encountered and require severing, consult the AQF5 Project Arborist.

7.3 Project Arborist Hold Points

- 7.3.1 **Hoarding Waste and Amenities (HWA)** must be stored outside the TPZ's of trees.
- 7.3.2 **Signage**, with the project arborist's contact details reading 'Tree Protection Zone: Do Not Enter' in accordance with AS 1319-1994 – Safety Signage.
- 7.3.3 Appointment of an **AQF 5 Project Arborist** to implement and adhere to the Tree Protection Plan during works in accordance with Australian Standards *AS 4970-2025 Protection of Trees on Development Sites*.
- 7.3.4 **Supervise** all activities within the TPZ that may impact the tree roots, such as excavation and trenching, must be supervised by AQF 5 project arborist. The use of machinery within the TPZ is prohibited without appropriate ground protection, excavators must be on rolled tracks and not exceed 5 tonnes.
- 7.3.5 **Root pruning** can be performed by an AQF 3 Arborist or higher under the direction of the Project Arborist. No root in the Structural Root Zone (SRZ) shall be pruned. No more than 20% of the total root system must be pruned at a time. Root must be pruned with sharp clean tools. Any roots in the TPZ over 40 mm in diameter must be pruned by the Project Arborist.
- 7.3.6 **Remediation plan** by project arborist is required if trees decline or are damaged.

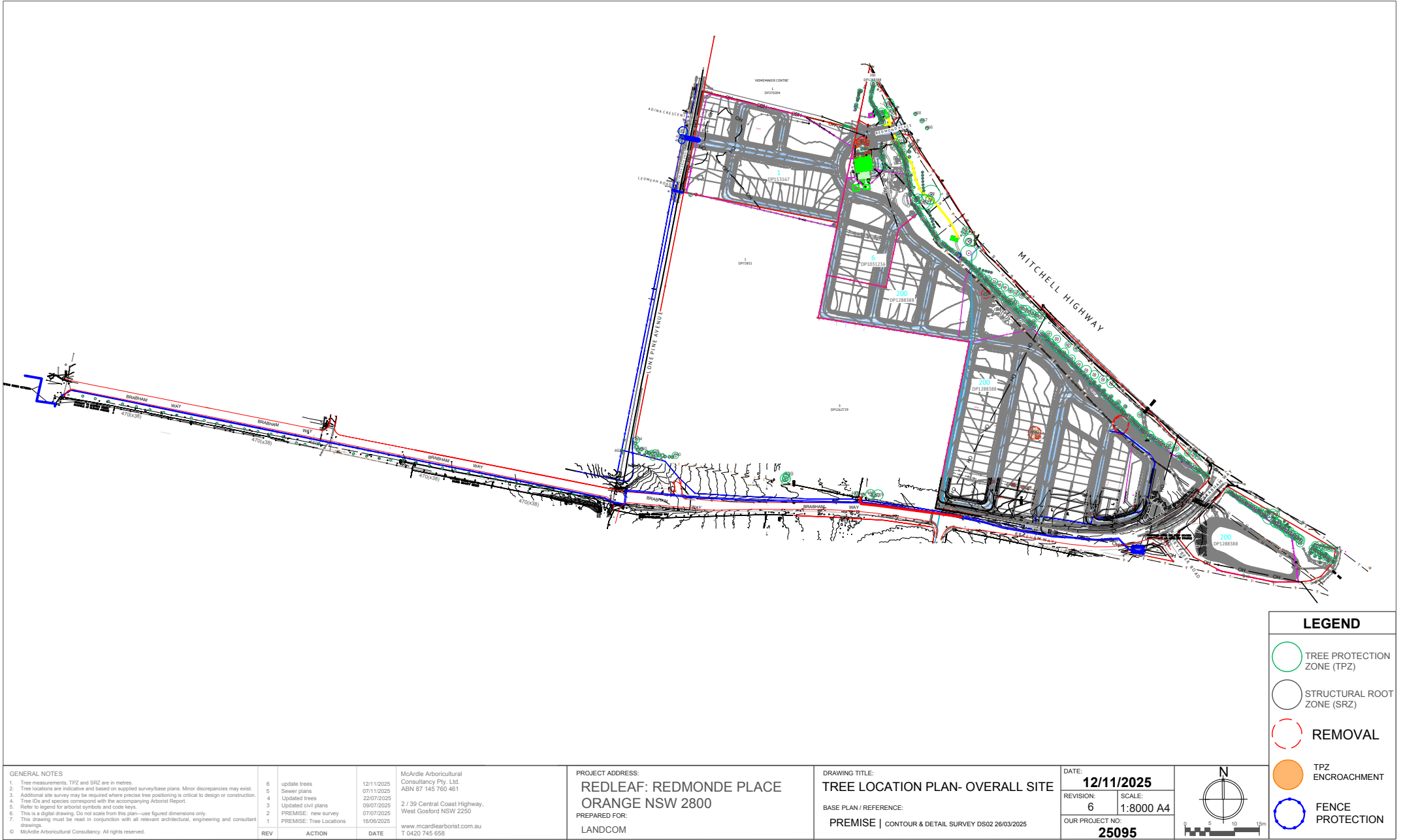
Table 11: Project Arborist Hold Points & Monitoring Schedule

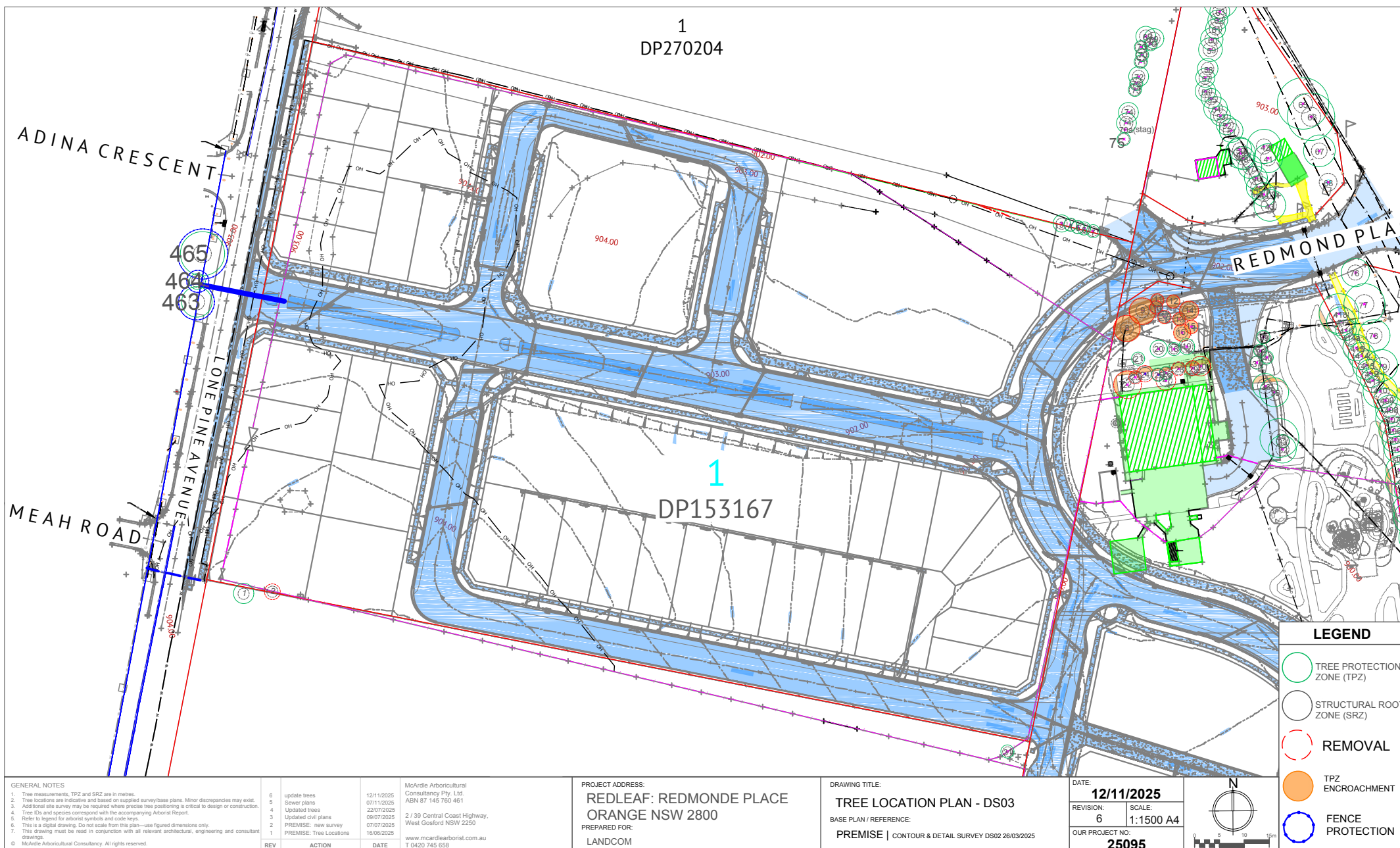
Project Arborist Hold Points & Monitoring Schedule	Timing
Obtain DA approval for Tree Protection Plan (TPP).	Pre-construction & pre-demolition
Appoint an AQF 5 Project Arborist to implement the TPP during works in accordance with Australian Standards <i>AS 4970-2025 Protection of Trees on Development Sites</i> .	
Certify tree protection installation measures for all retained trees.	
Inspect and monitor retained trees regularly and record with photographs.	
Supervise approved works within the TPZ including installation of underground services, driveway, piers or anything that may adversely affect the tree.	During Construction
Undertake any remedial works if necessary for declining tree health.	
Final certificate.	Post construction

8. TREE MANAGEMENT PLANS

The following pages include,

- 8.1 [Tree Location Plan -Overall site DS02](#)
- 8.2 [Tree Location Plan DS03](#)
- 8.3 [Tree Location Plan DS04](#)
- 8.4 [Tree Location Plan DS05](#)
- 8.5 [Tree Location Plan DS06](#)
- 8.6 [Tree Location Plan DS07](#)
- 8.7 [Tree Location Plan DS08 and DS09](#)
- 8.8 [Tree Location Plan To Kurim Ave](#)
- 8.9 [Tree Location Plan -To Elsham Ave](#)





INTRE'

3167



LEGEND



TREE PROTECTION
ZONE (TPZ)

STRUCTURAL ROOT
ZONE (SRZ)

REMOVAL

 TPZ ENCROACHMENT

FENCE
PROTECTION

GENERAL NOTES

1. Tree measurements, TPZ and SRZ are in metres.
2. Tree locations are indicative and based on supplied survey/base plans. Minor discrepancies may exist.
3. Additional site survey may be required where precise tree positioning is critical to design or construction.
4. The IDs and species correspond with the accompanying Arbourist Report.
5. Refer to legend for arborist symbols and code keys.
6. This is a digital drawing. Do not scale from this plan—use figured dimensions only.
7. This drawing must be read in conjunction with all relevant architectural, engineering and consultant drawings.

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6	update trees
5	Sewer plans
4	Updated trees
3	Updated civil plans
2	PREMISE: new survey
1	PREMISE: Tree Locations
REV	ACTION

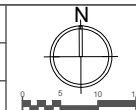
12/11/2025	McArdle Arboricultural Consultancy Pty. Ltd. ABN 87 145 760 461 2 / 39 Central Coast Highway West Gosford NSW 2250 www.mcardlearborist.com.au T 0420 745 658
07/11/2025	
22/07/2025	
09/07/2025	
07/07/2025	
16/06/2025	
DATE	

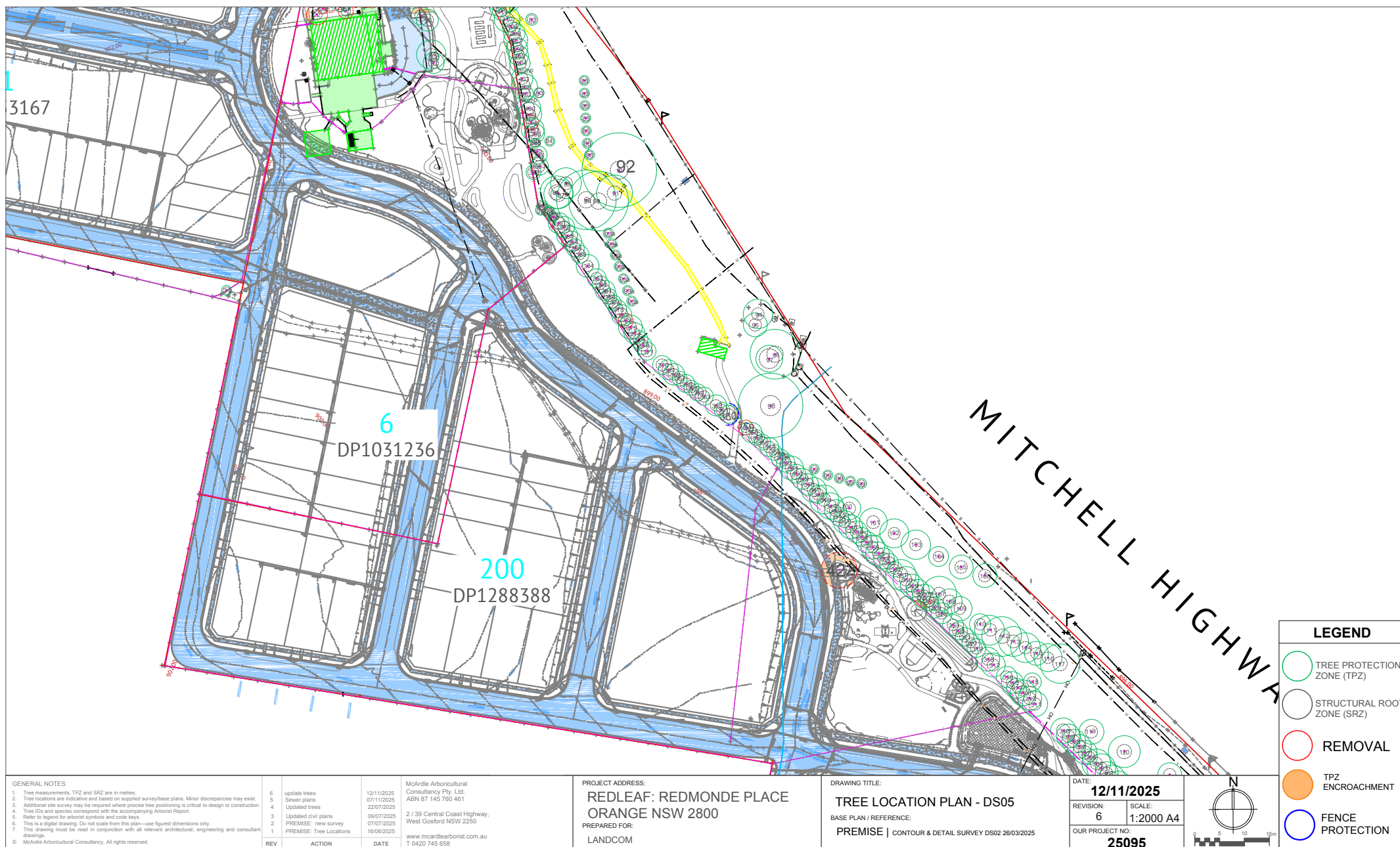
PROJECT ADDRESS:
REDLEAF: REDMONDE PLACE
ORANGE NSW 2800
PREPARED FOR:
LANDCOM

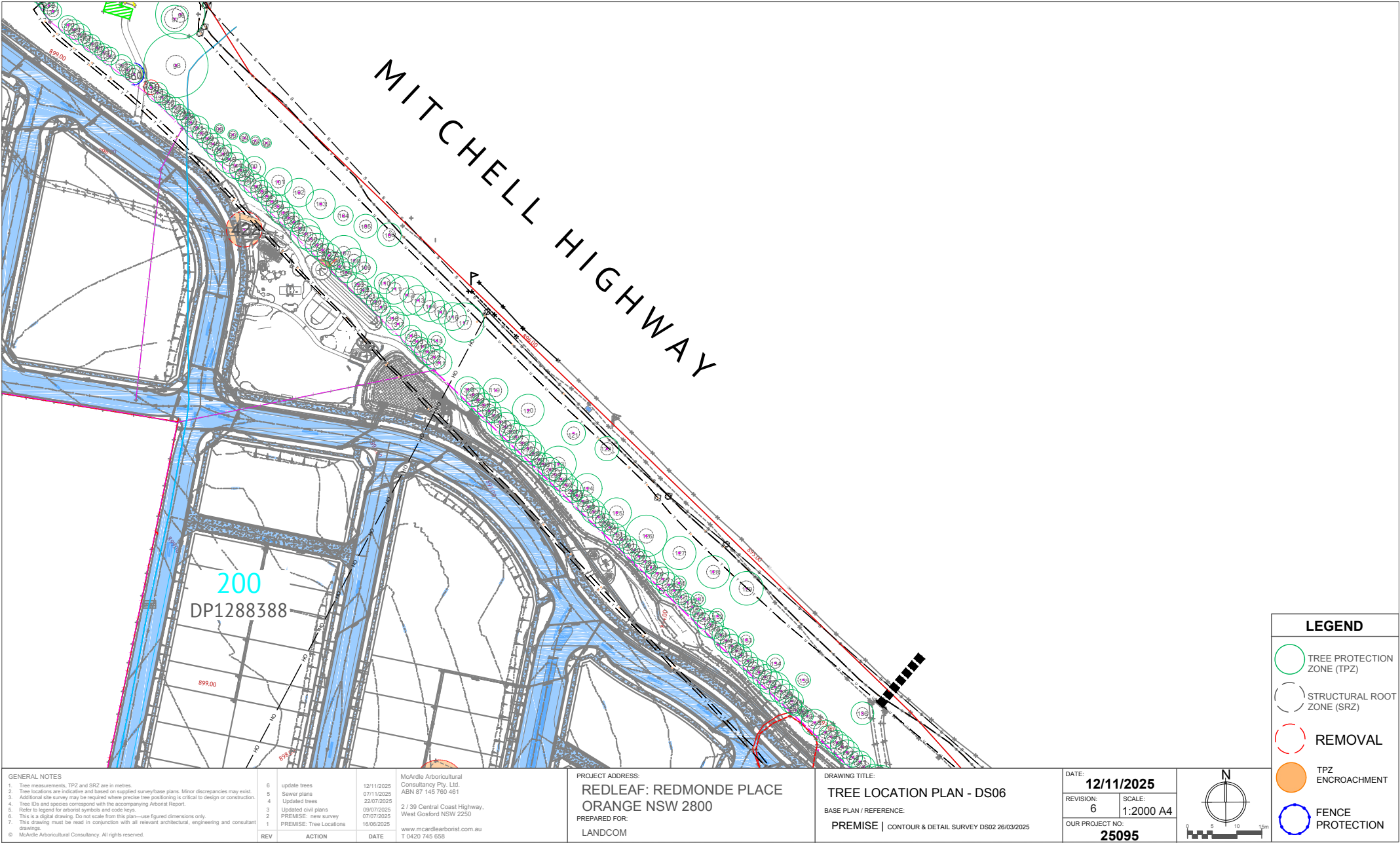
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TREE LOCATION PLAN - DS04

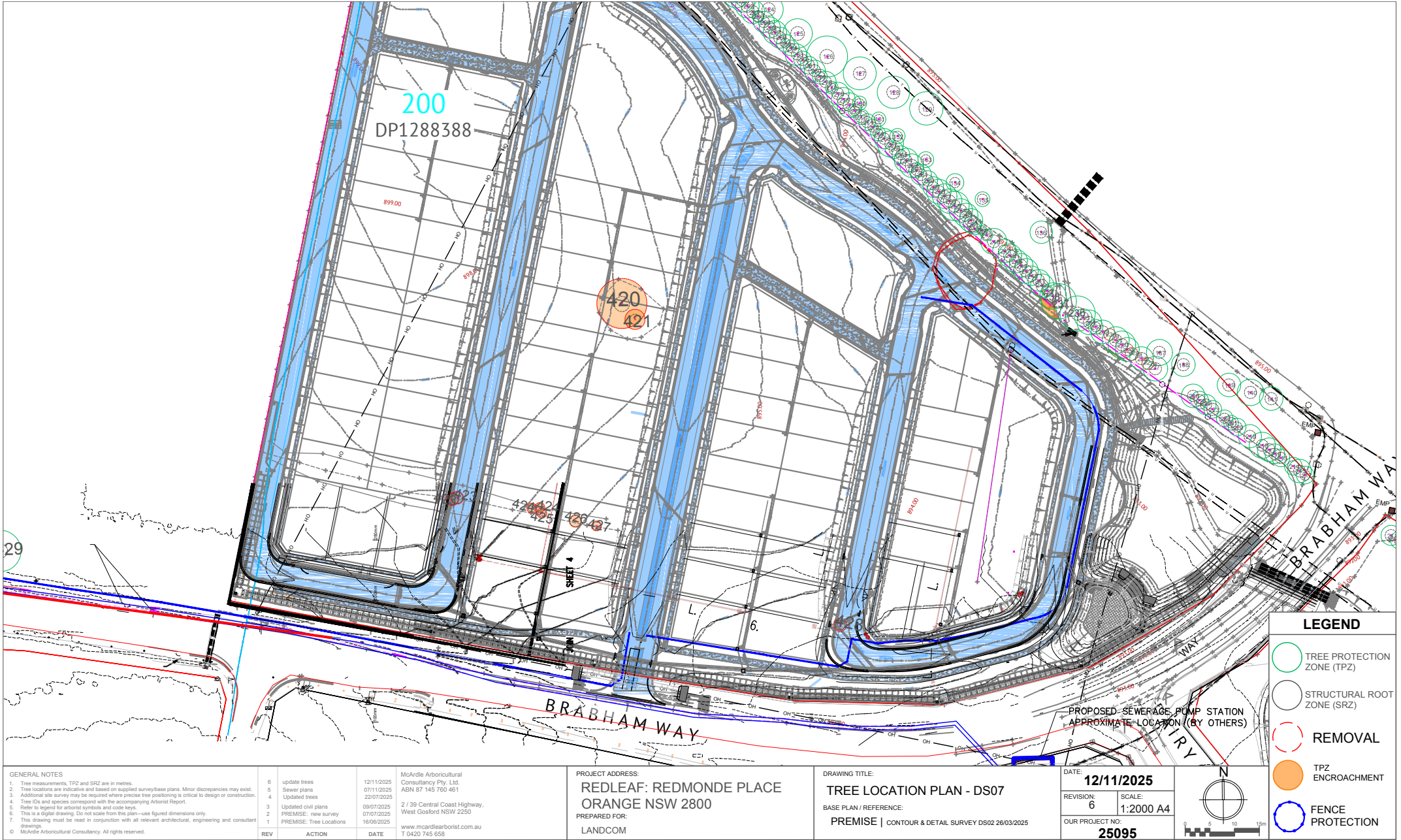
BASE PLAN / REFERENCE:
PREMISE | CONTOUR & DETAIL SURVEY DS02 26/03/2025

DATE: 12/11/2025	
REVISION: 6	SCALE: 1:1500 A4
OUR PROJECT NO: 25095	











LEGEND

TREE PROTECTION ZONE (TPZ)

STRUCTURAL ROOT ZONE (SRZ)

REMOVAL

TPZ ENCROACHMENT

FENCE PROTECTION

GENERAL NOTES

1. Tree measurements, TPZ and SRZ are in metres.
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4. Tree IDs and species correspond with the accompanying Arborist Report.
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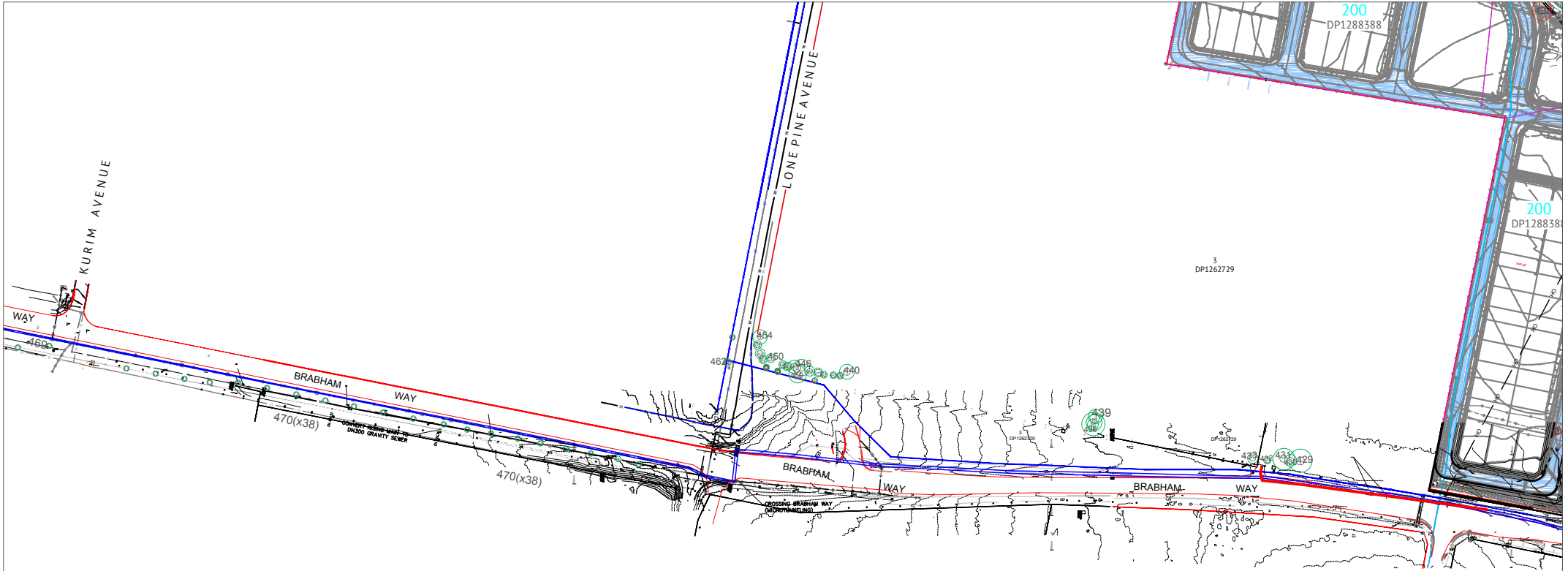
REV	ACTION	DATE
6	update trees	12/11/2025
5	Sewer plans	07/11/2025
4	Updated trees	22/07/2025
3	Updated civil plans	09/07/2025
2	PREMISE: new survey	07/07/2025
1	PREMISE: Tree Locations	16/06/2025

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West Gosford NSW 2250
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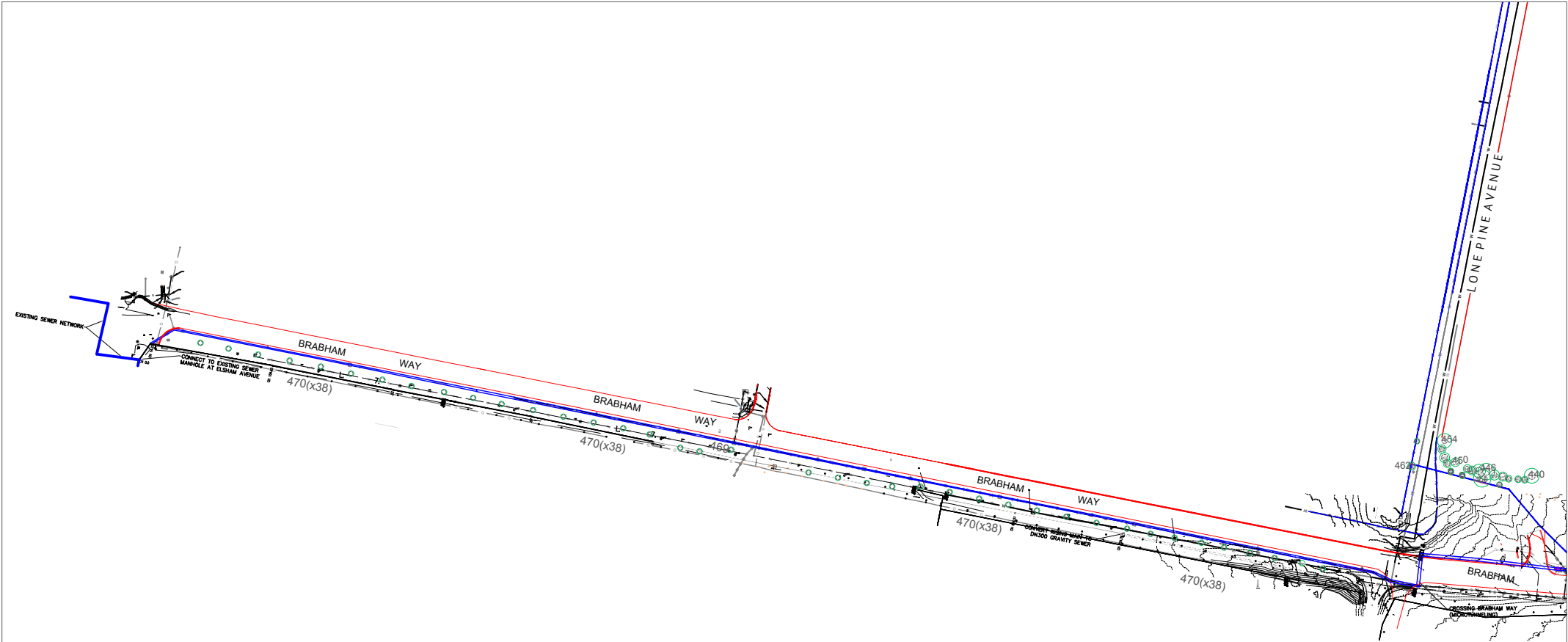
PROJECT ADDRESS:
**REDLEAF: REDMONDE PLACE
ORANGE NSW 2800**
PREPARED FOR:
LANDCOM

DRAWING TITLE:
TREE LOCATION PLAN - DS08 & 9
BASE PLAN / REFERENCE:
PREMISE | CONTOUR & DETAIL SURVEY DS02 26/03/2025

DATE: **12/11/2025**
REVISION: **6** SCALE: **1:2000 A4**
OUR PROJECT NO: **25095**



										LEGEND TREE PROTECTION ZONE (TPZ) STRUCTURAL ROOT ZONE (SRZ) REMOVAL TPZ ENCROACHMENT FENCE PROTECTION					
GENERAL NOTES 1. Tree measurements, TPZ and SRZ are in metres. 2. Tree locations are indicative and based on supplied survey/base plans. Minor discrepancies may exist. 3. Additional site survey may be required where precise tree positioning is critical to design or construction. 4. Tree IDs and species correspond with the accompanying Arborist Report. 5. Refer to legend for arborist symbols and code keys. 6. This is a digital drawing. Do not scale from this plan—use figured dimensions only. 7. This drawing must be read in conjunction with all relevant architectural, engineering and consultant drawings. © McArdle Arboricultural Consultancy. All rights reserved.				6 update trees 12/11/2025 5 Sewer plans 07/11/2025 4 Updated trees 22/07/2025 3 Updated civil plans 09/07/2025 2 PREMISE: new survey 07/07/2025 1 PREMISE: Tree Locations 16/06/2025		McArdle Arboricultural Consultancy Pty. Ltd. ABN 87 145 760 461 2 / 39 Central Coast Highway, West Gosford NSW 2250 www.mcardlearborist.com.au T 0420 745 658		PROJECT ADDRESS: REDLEAF: REDMONDE PLACE ORANGE NSW 2800 PREPARED FOR: LANDCOM		DRAWING TITLE: TREE LOCATION PLAN - Brabham to Kurim Ave BASE PLAN / REFERENCE: PREMISE CONTOUR & DETAIL SURVEY DS02 26/03/2025		DATE: 12/11/2025 REVISION: 6 SCALE: 1:4000 A4 OUR PROJECT NO: 25095		N 0 5 10 15m	



LEGEND

- TREE PROTECTION ZONE (TPZ)
- STRUCTURAL ROOT ZONE (SRZ)
- REMOVAL
- TPZ ENCROACHMENT
- FENCE PROTECTION

GENERAL NOTES

- Tree measurements, TPZ and SRZ are in metres.
- Tree locations are indicative and based on supplied survey/base plans. Minor discrepancies may exist.
- Additional site survey may be required where precise tree positioning is critical to design or construction.
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REV	ACTION	DATE
6	update trees	12/11/2025
5	Sewer plans	07/11/2025
4	Updated trees	22/07/2025
3	Updated civil plans	09/07/2025
2	PREMISE: new survey	07/07/2025
1	PREMISE: Tree Locations	16/06/2025

PROJECT ADDRESS:
**REDLEAF: REDMONDE PLACE
ORANGE NSW 2800**

PREPARED FOR:
LANDCOM

DRAWING TITLE:
**TREE LOCATION PLAN - TO ELSHAM
AVE**

BASE PLAN / REFERENCE:
PREMISE | CONTOUR & DETAIL SURVEY DS02 26/03/2025

DATE:
12/11/2025

REVISION:
6

SCALE:
1:2000 A4

OUR PROJECT NO:
25095

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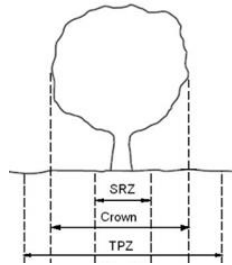
8.10 General Tree Management Specifications

Based on *Australian Standard® 4970-2025 Protection of Trees on Development Sites*.

Tree Protection Zones

Tree Protection Zone (TPZ) distances are measured as a radius from the center of the trunk at ground level and must be protected during construction. Structural Root Zone (SRZ) is a critical area for a tree's stability.

AS 4970-2025 *Protection of Trees on Development Sites* permits a 10% incursion into the TPZ (with Conditions) and incursions greater than 10% will require additional TPM.



Prohibitions for TPZ's

Prohibited activities within the TPZ of protected trees during demolition, excavation and construction, include entry onto or across protected surfaces, disposal of chemicals and liquids (including concrete and mortar slurry, solvents, paint, fuel or oil), stockpiling, storage or mixing of materials, refueling, parking, storing, washing and repairing tools, equipment, machinery and vehicles and disposal of building materials and waste.

Demolition

Tree Protection is to be installed around the retained trees and certified by the project arborist prior to any demolition, development or soil stripping.

Post Construction

Tree Protection must be removed after the final certification is determined to be compliant.

Hoarding Waste & Amenities (HWA)

HWA's must be stored outside the TPZs of the retained trees.

Installing Underground Services Within TPZ

All services must be routed outside the TPZ. If underground services must be routed within the TPZ, they must be installed by directional drilling or in manually excavated trenches. The directional drilling boring methods, such as horizontal directional drilling (HDD) must be at least 600 mm deep. The project arborist must assess the likely impacts of bore and bore pits on retained trees.

Excavations for entry/exit pits must be located outside the TPZ.

Excavation Within TPZ's

Excavations shall be undertaken under supervision of the project arborist, using sensitive, non-destructive methods (e.g., Manual excavation (hand tools), Air-spade or Hydro-vacuum excavations (sucker-truck).

Excavation is to be carried out in a manner that prevents tearing, splitting and displacement of the remaining roots; no roots greater than 40mm in diameter are damaged, pruned or removed. All care shall be taken to preserve and avoid damaging roots; excavation must not occur within the SRZ. Exposed roots shall be protected from direct sunlight by covering them with hessian or similar fabric and always kept moist.

Hand excavation and root mapping shall be undertaken along excavation lines within the TPZ. Any conflicting roots (>40mm in diameter) shall be pruned using clean, sharp secateurs or a pruning saw to ensure a clean cut, free from tears.

Backfilling is to be carried out as soon as possible.

Mulch Within TPZ

Maintain aged eucalyptus mulch to retained trees for the duration of the development in accordance with Australian Standards® AS 4454-2003 Compost, Soil Conditioners and Mulches.

Mulch must have at least 70% by mass of its particles, with a maximum size of greater than 16 mm and spread 50-75mm deep to the extent of the dripline, (never exceed 100mm depth). Mulch must not have contact with the tree trunk, apply 200mm from trunk and shaping a soil berm dish close to the root ball to facilitate establishment of watering.

Mulch across the surface of the TPZ is at the discretion of the arborist.



Protective Fencing Specification

Tree Protection Fencing must be installed to fully enclose the TPZ prior to demolition.

Fencing in accordance with AS4687 Temporary fencing. Existing boundary fences or walls shall constitute part of the TPZ where appropriate.

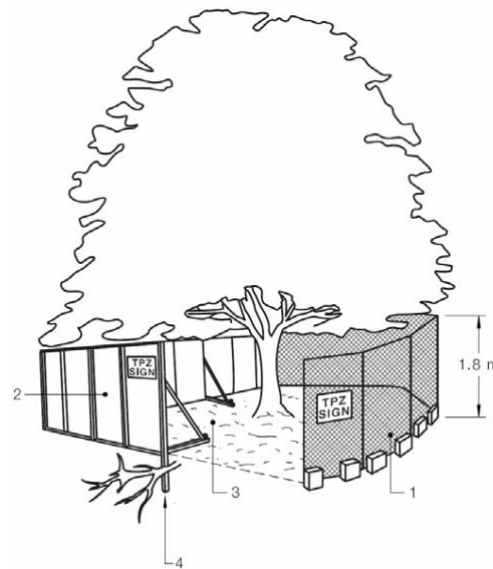
Fencing entails a 1.8-meter-high wire mesh fence, anchored with concrete.

Fencing on sloping or uneven ground will entail a 1-meter-high wire mesh fence anchored with star pickets, spaced at 2m intervals and connected by a continuous high-visibility plastic mesh fence.

Shade cloth must be affixed to the fencing.

Tree protection fencing must not be removed or altered but must be relocated with permission from the Project Arborists to access the work site.

Signage attached to the fencing and reads 'Tree Protection Zone: No Access' in accordance with AS 1319-1994 – Safety Signage.



Tree Trunk and Branch Specification

Tree Trunk Protection is required if tree protection fencing would be impractical and block access to the work site.

The method requires a layer of padding, geotextile or similar fabric wrapped around the trees' trunk.

Followed by a layer of 1.8-metre-long timber planks measuring 50mm x 100mm aligned vertically and spaced with small gaps (100mm) evenly around the trunk. The timber planks are securely fastened against the trunk using suitable strapping, must not be nailed or screwed into the trees.

Branch Protection requires adequate clearance of 250mm provided between the structure (hoarding/scaffolding), tree branches, limbs and trunk.

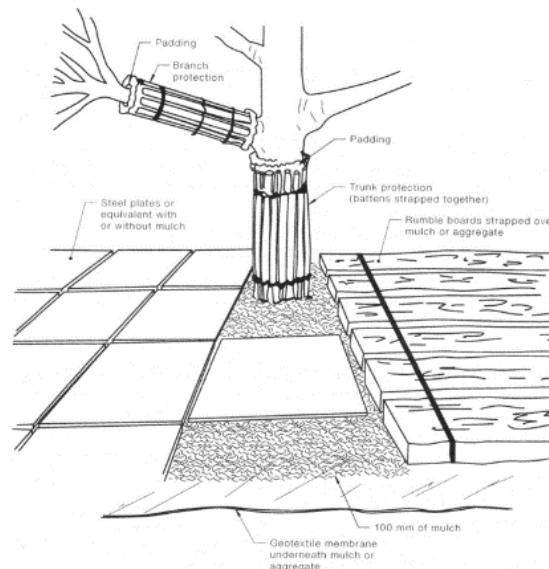
Tree trunks and or major branches located within 500mm of any hoarding or scaffolding must be protected by wrapped hessian or similar material to limit damage.

Ground / Root Protection Specification

Anticipate loads in the TPZ, to prevent root damage and soil compaction.

For foot traffic use a permeable membrane such as geotextile fabric beneath a layer of protective aggregate such as mulch or crushed rock (minimum depth of 75-100mm).

For loads over 3 tonnes use a permeable membrane such as geotextile fabric beneath a layer of mulch or crushed rocks (75-100mm) and a third layer of track mats (25mm thickness), steel plates or strapped rumble boards (120 x 65mm hardwood).



Scaffolding Specification / Canopy Protection

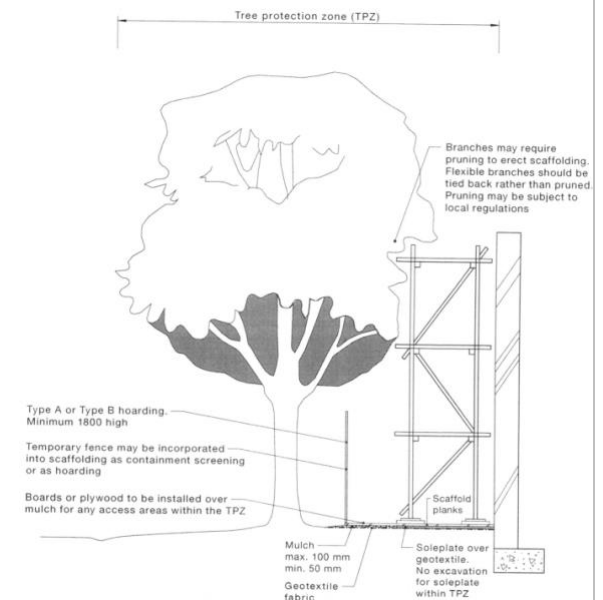
Type A hoarding must be installed directly adjacent to the tree trunk to a minimum height of 1.8m.

No branch is to be cut, broken or removed without permission from AQF5.

Branches may require pruning to erect scaffolding.

Flexible branches may be gently pushed back and tied back rather than pruned.

Support post entering the TPZ must not cut roots greater than 20mm.



9. GLOSSARY

Aerial Inspection: Where a tree is climbed by an arborist to inspect upper stem and crown for signs or symptoms of defects and disease.

Branch collar: The ring of wood tissue which forms around the base of a branch (near the branch attachment).

Cavity: A void, initiated by a wound within the trunk, branches or roots. These voids are referred to as hollows.

Co-dominant: Stems or branches equal in size and relative importance.

Crown: All the parts of a tree arising above the trunk where it terminates by its division forming branches, e.g. the branches, leaves, flowers and fruit: or the total amount of foliage supported by branches.

Crown Lifting: The removal of the lower branches of the tree.

Dead wood: Refers to any whole limb that no longer contains living tissues

Decay: Process of degradation of woody tissues by fungi or bacteria through decomposition of cellulose and lignin.

Dieback: Tree deterioration where the branches and leaves die.

Drip line: Where the canopy releases water shed from the foliage during precipitation.

Epicormic Shoots: These shoots often have a weak point of attachment. Epicormic growth/shoots are generally a survival mechanism.

Inclusion: The pattern of development at branch or stem junctions where bark is turned inward rather than pushed out. This fault is located at the point where the stems/branches meet.

Maturity: Tree age, assessed as over-mature (last 1/3 of life expectancy), mature (1/3 to 2/3 life expectancy) and semi mature (less than 1/3 life expectancy).

Resistograph® testing: A Resistograph® is a specialised machine that measures timber density by drilling a 3mm diameter probe through the wood, simultaneously plotting the results on a graph at full scale.

Structural Integrity: Describes the internal supporting timber. (Substantial to frail)

Structural root zone (SRZ): Refers to the radial distance in metres, measured from the centre of the tree stem, which defines the critical area required to maintain stability of the tree.

Target: Are people, property or activities that could be injured, damaged or disrupted by a tree.

Tree Protection Zone (TPZ): Refers to the radius distance in metres, measured from the centre of the tree stem which defines the *tree protection zone* for a tree to be retained. This is generally the minimum distance from the centre of the tree trunk where protective fencing is to be installed to create an exclusion zone associated with construction works.

Vigour: Refers to the tree's health as exhibited by the crown density, leaf colour, presence of epicormic shoots, ability to withstand disease invasion and the degree of dieback.

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APPENDIXES

Appendix A Visual Tree Assessment (VTA)

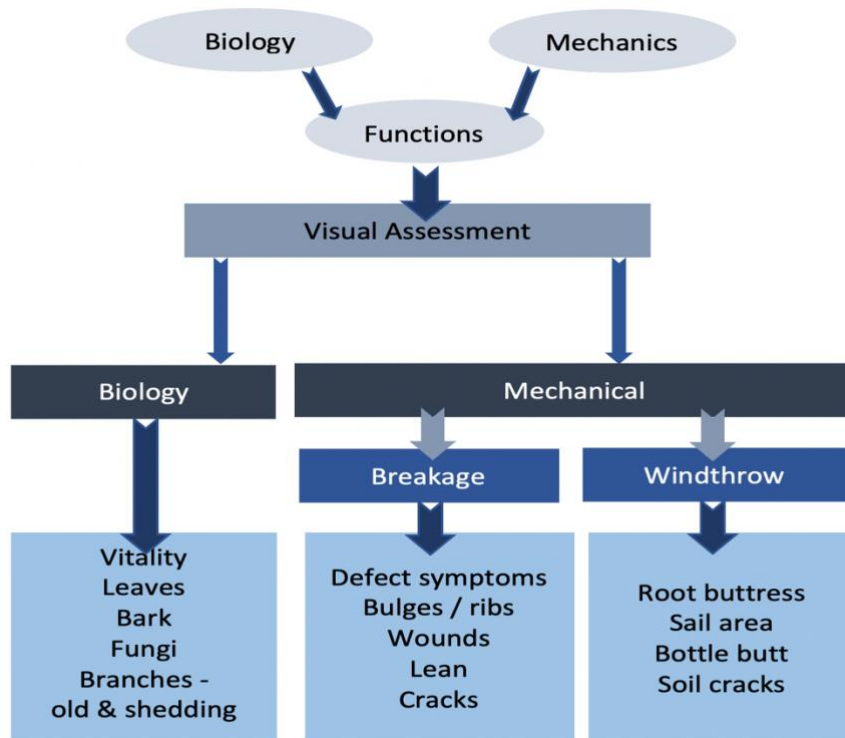


Diagram 1: VTA Chart by Claus Mattheck (1994) *The Body Language of Trees*, adapted.

Schedule 1: Categories for VTA

VISUAL TREE DIAGNOSTICS	
M-Maturity; J-Juvenile; IM-Immature; SM-Semi-Mature; M-Mature	
Health & Vigour	Condition of Tree
	3a Good Condition
	3b Good Condition but poor development
	3c Moderate.
4 Dieback is more than 20%.	
4b Epicormics	
5 Sparse Foliage Crown	5b Unbalanced Canopy
	6 Physical Damage
7 Insect damage-foliage	
7b Borers	
8 Fungal Attack -pathogen	
	9 Cavity
10 Termite activity	
	11 Lean
12b Dying	12 Heavily pruned
	13 Damage to roots
	13b Encroachment
14 Parasitic Vine Present	
15 Damage by Climbing Plant	
	16 Inclusions
17 Habitat Tree	
18 Endangered Species	

Appendix B Tree Useful Life Expectancy (TULE)

Schedule 2: SULE (2001) adapted with permission from author J. Barrell (2014) for TCAA members.

	1 LONG TULE	2 MEDIUM TULE	3 SHORT TULE	4 REMOVE	5 MOVE OR REPLACE	6 SMALL, YOUNG OR REGULARLY CLIPPED
	Trees that appeared to be retainable for more than 40 years with an acceptable degree of risk, assuming reasonable maintenance. Or with low level of risk.	Trees that appeared to be retainable for 15 to 40 years with an acceptable degree of risk, assuming reasonable maintenance. Or with low to medium level of risk.	Trees that appear to be retainable at the time of assessment for 5 to 15 years with an acceptable degree of risk, assuming reasonable maintenance. Or with medium to high level of risk.	Trees which should be removed within the next 5 years. Or with high to very high level of risk.	No potential for retention. Trees which can be readily moved or replaced. Or with very high to extreme level of risk.	Trees that can be easily transplanted or replaced.
A	Structurally sound trees located in positions that can accommodate future growth.	Trees that may only live for between 15 and 40 more years.	Trees that may only live for between 5 and 15 more years.	Dead, dying, suppressed or declining trees through disease or inhospitable conditions.	Small trees less than 5 meters (m) in height.	Small trees less than 5 meters in height.
B	Trees that could be made suitable for retention in the long term by remedial tree care.	Trees that may live for more than 40 years, but would need to be removed for safety or nuisance reasons	Trees that may live for more than 15 years, but would need to be removed for safety or nuisance reasons	Dangerous trees through instability or recent loss of adjacent trees.	Young trees less than 15 years old but over 5m in height.	Young trees less than 15 years old but over 5 meters in height.
C	Trees of special significance for historical, commemorative or rarity reasons that would warrant extraordinary efforts to secure their long-term retention.	Trees that may live for more than 40 years but should be removed to prevent interference with more suitable individuals or to provide space for new planting.	Trees that may live for more than 15 years but should be removed to prevent interference with more suitable individuals or to provide space for new planting.	Dangerous trees through structural defects including cavities, decay, bark, wounds or poor form.	Dangerous trees through structural defects including cavities, decay, included bark, wounds or poor form.	Trees that have been regularly pruned to artificially control growth.
D		Trees that could be made suitable for retention in the medium term by remedial tree care.	Trees that require substantial remedial tree care and are only suitable for retention in the short term	Damaged trees that are clearly not safe to retain.	Dangerous trees through instability or recent loss of adjacent trees.	
E				Trees that may live for more than 5 years but should be removed to prevent interference with more suitable individuals or to provide space for new planting.	High Toxicity Allegan trees, asthmatic and poisonous trees and must be removed immediately.	
F				Trees that may cause damage to existing structures within 5 years.	Dead, dying or declining trees diseased or inhospitable conditions.	
G				Trees that will become dangerous after removal of other trees for reasons given in A to F.	OTHER, with legitimate explanation	
INSPECTION FREQUENCY						
	Every 1-5 years by a competent inspector, or event monitored.	Every 1-5 years by a competent inspector, or event monitored.	Every 1-3 years by a competent inspector, or event monitored.	Ascertain timeframe up to 1 year. By a competent inspection, or event monitored.	Ascertain timeframe up to 7-12 days. By a competent inspection, or event monitored.	Bi-annually by a competent inspector.

Appendix C Tree A-Z Categories and Retention Value Rating

Schedule 3: Tree A-Z Categories Field Sheet (version 10.10-ANZ) Barrell (2019)

Criteria for Assessing the importance of Trees on Development Sites.

Figure 1: TreeAZ Categories (Version 10.10-ANZ)

CAUTION: TreeAZ assessments must be carried out by a competent person qualified and experienced in arboriculture. The following category descriptions are designed to be a brief field reference and are not intended to be self-explanatory. They must be read in conjunction with the most current explanations published at www.TreeAZ.com.

Category Z: Unimportant trees not worthy of being a material constraint

Local policy exemptions: Trees that are unsuitable for legal protection for local policy reasons including size, proximity and species

- Z1** Young or insignificant small trees, i.e. below the local size threshold for legal protection, etc
- Z2** Too close to a building, i.e. exempt from legal protection because of proximity, etc
- Z3** Species that cannot be protected for other reasons, i.e. scheduled noxious weeds, out of character in a setting of acknowledged importance, etc
- High risk of death or failure:** Trees that are likely to be removed within 10 years because of acute health issues or severe structural failure
- Z4** Dead, dying, diseased or declining
- Z5** Severe damage and/or structural defects where a high risk of failure cannot be satisfactorily reduced by reasonable remedial care, i.e. cavities, decay, included bark, wounds, excessive imbalance, overgrown and vulnerable to adverse weather conditions, etc
- Z6** Instability, i.e. poor anchorage, increased exposure, etc
- Excessive nuisance:** Trees that are likely to be removed within 10 years because of unacceptable impact on people
- Z7** Excessive, severe and intolerable inconvenience to the extent that a locally recognized court or tribunal would be likely to authorize removal, i.e. dominance, debris, interference, etc
- Z8** Excessive, severe and intolerable damage to property to the extent that a locally recognized court or tribunal would be likely to authorize removal, i.e. severe structural damage to surfacing and buildings, etc
- Good management:** Trees that are likely to be removed within 10 years through responsible management of the tree population
- Z9** Severe damage and/or structural defects where a high risk of failure can be temporarily reduced by reasonable remedial care, i.e. cavities, decay, included bark, wounds, excessive imbalance, vulnerable to adverse weather conditions, etc
- Z10** Poor condition or location with a low potential for recovery or improvement, i.e. dominated by adjacent trees or buildings, poor architectural framework, etc
- Z11** Removal would benefit better adjacent trees, i.e. relieve physical interference, suppression, etc
- Z12** Unacceptably expensive to retain, i.e. severe defects requiring excessive levels of maintenance, etc

NOTE: Z trees with a high risk of death/failure (Z4, Z5 & Z6) or causing severe inconvenience (Z7 & Z8) at the time of assessment and need an urgent risk assessment can be designated as ZZ. ZZ trees are likely to be unsuitable for retention and at the bottom of the categorization hierarchy. In contrast, although Z trees are not worthy of influencing new designs, urgent removal is not essential and they could be retained in the short term, if appropriate.

Category A: Important trees suitable for retention for more than 10 years and worthy of being a material constraint

- A1** No significant defects and could be retained with minimal remedial care
- A2** Minor defects that could be addressed by remedial care and/or work to adjacent trees
- A3** Special significance for historical, cultural, commemorative or rarity reasons that would warrant extraordinary efforts to retain for more than 10 years
- A4** Trees that may be worthy of legal protection for ecological reasons (Advisory requiring specialist assessment)

Schedule 4: Tree Retention Value. Morton, A (2011)

Evaluating Sustainability and Landscape Significance to Determine Retention Value.

RETENTION VALUE	CRITERIA AND CATEGORIES
HIGH	Trees considered worthy of preservation. Consideration should be given to their retention as a priority. Proposed site design and placement of buildings and infrastructure should consider the TPZ's as discussed in the following section to minimise any adverse impact. In addition to TPZ's, the extent of the canopy should also be considered, particularly in relation to a high-rise development. Significant pruning of the trees to accommodate the building envelope or temporary scaffolding is generally not acceptable.
MODERATE	The retention of these trees is desirable. These trees should be retained as part of any proposed development if possible, however these trees are considered less critical for retention. If these trees must be removed, replacement planting should be considered in accordance with Council's Tree Replacement Policy to compensate for loss of amenity.
LOW	Not considered worthy of special measures to ensure their preservation, due to current health, condition, or suitability. They do not have any special ecological, heritage or amenity value, or these values are substantially diminished due to their SULE. These trees should not be considered as a constraint to the future development of the site.
VERY LOW	Trees are considered potentially hazardous or very poor specimens or may be environmental or noxious weeds. The removal of these trees is therefore recommended regardless of the implications of any proposed development.

Appendix D

Landscape Significance Rating

Schedule 5: Criteria for Assessment of Landscape Significance. Morton, A (2006)

RATING	HERITAGE VALUE	ECOLOGICAL VALUE	AMENITY VALUE
SIGNIFICANT	The subject tree is listed as a Heritage Item under the Local Environment Plan (LEP) with a local, state, or national level of significance or is listed on Council's Significant Tree Register.	The subject tree is scheduled as a Threatened Species as defined under the Threatened Species Conservation Act 1995 (NSW) or the Environmental Protection and Biodiversity Conservation Act 1999.	The subject tree has a very large live crown size exceeding 300m ² with normal to dense foliage cover, is in a visually prominent position in the landscape, exhibits very good form and habit typical of the species.
	The subject tree forms part of the curtilage of a Heritage Item (building/structure/artefact as defined under the LEP) and has a known or documented association with that item.	The tree is a locally indigenous species, representative of the original vegetation of the area and is known as an important food, shelter, or nesting tree for endangered or threatened fauna species.	The subject tree makes a significant contribution to the amenity and visual character of the area by creating a sense of place or creating a sense of identity.
	The subject tree is a Commemorative Planting having been planted by an important historical person (s) or to commemorate an important historical event.	The subject tree is a remnant tree, being a tree in existence prior to development of the area.	The tree is visually prominent in view from surrounding areas, being a landmark or visible from a considerable distance.
VERY HIGH	The tree has a strong historical association with heritage items (building/structure/artefact/garden etc..) within or adjacent the property and/or exemplifies a particular era or style of landscape design associated with the original development of the site.	The tree is a locally indigenous species, representative of the original vegetation of the area and is a dominant or associated canopy species of an Endangered Ecological Community (EEC) formerly occurring in the area occupied by the site.	The subject tree has a very large live crown size exceeding 200m ² , a crown density exceeding 70% (normal-dense), is a very good representative of the species in terms of its form and branching habit or is aesthetically distinctive and makes a positive contribution to the visual character and the amenity of the area.
HIGH	The tree has a suspected historical association with a heritage item or landscape supported by anecdotal or visual evidence.	The tree is a locally indigenous species and representative of the original vegetation of the area and the tree is located within a defined Vegetation Link/Wildlife Corridor or has known wildlife habitat value.	The subject tree has a large live crown size exceeding 100m ² ; The tree is a good representative of the species in terms of its form and branching habit with minor deviations from normal (e.g., crown distortion/suppression) with a crown density of at least 70% (normal); The subject tree is visible from the street and surrounding properties and makes a positive contribution to the visual character and the amenity of the area.
MODERATE	The tree has no known or suspected historical association but does not detract or diminish the value of the item and is sympathetic to the original era of planting.	The subject tree is a non-local native or exotic species that is protected under the provisions of this DCP.	The subject tree has a medium live crown size exceeding 40m ² ; The tree is a fair representative of the species, exhibiting moderate deviations from typical form (distortion/suppression etc.) with a crown density of more than 50% (thinning to normal); and The tree is visible from surrounding properties but is not visually prominent – the view may be partially obscured by other vegetation or built forms. The tree makes a fair contribution to the visual character and amenity of the area.
LOW	The subject tree detracts from heritage values or diminishes the value of a heritage item.	The subject tree is scheduled as exempt (not protected) under the provisions of this DCP due to its species, nuisance, or position relative to building or other structures.	The subject tree has a small live crown size of less than 40m ² and can be replaced within the short term (5-10 years) with new tree planting.
VERY LOW	The subject tree is causing significant damage to a heritage item.	The subject tree is listed as an Environment Weed Species in the relevant Local Government Area, being invasive, or is a known nuisance species.	The subject tree is not visible from surrounding properties (visibility obscured) and makes a negligible contribution or has a negative impact on the amenity and visual character of the area. The tree is a poor representative of the species, showing significant deviations from the typical form and branching habit with a crown density of less than 50% (sparse).
INSIGNIFICANT	The tree is completely dead and has no visible habitat value.	The tree is a declared noxious weed under the Biosecurity Act 2015 (NSW) within the relevant Local Government Area.	The tree is completely dead and presents a potential hazard.

Appendix E Tree Planting Specifications

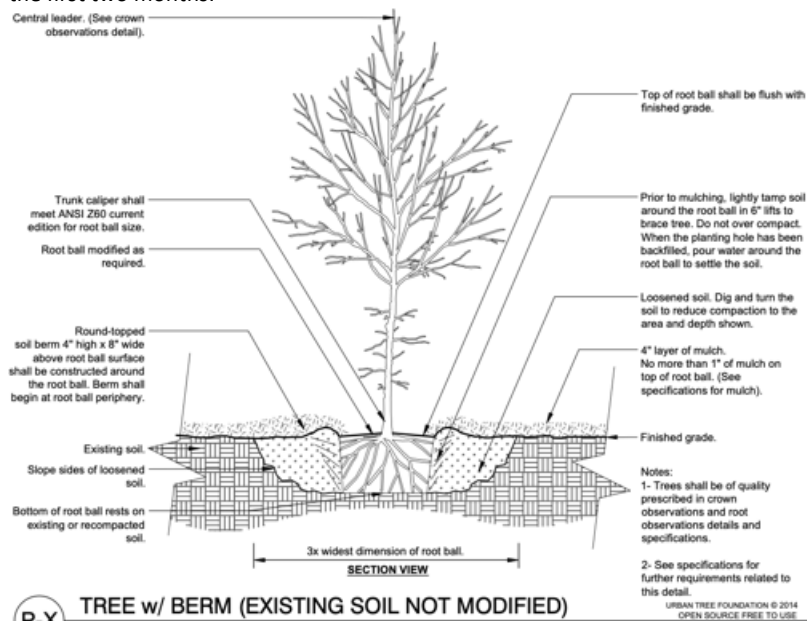
Tree planting specifications are in accordance with NATSPEC Specification for Trees, Ross Clark (2003) and Australian Standard® AS 2303-2018 – Tree Stock for Landscape Use.

Before Planting

Don't plant trees too close to buildings, in-ground pools, avoid planting under power lines and over drainage pipes or near other large trees. A consider the effect on neighbouring properties (i.e. shade, loss of views, impact on foundations, fences and services). Plant deciduous trees if you want in summer shade and winter sun. Consider shadows cast from evergreen trees. Use locally native to attract native fauna and to reduce watering required.

Basic Tree Planting

Dig the hole at least twice as wide as the pot size. Loosen the soil at the sides of the hole. Fill hole with water and allow to drain away. Place the loosened root ball in the hole. Fill back soil. The top of the root ball must be level with the surrounding soil. Water the plant deeply after planting, once a week for the first two months.



Watering Schedule adapted from *Trees Impact: 2021*

Pot size	Watering Amounts	Watering Frequency		
		1-2 weeks	3-12 weeks	After 12 weeks
45L	3 to 6 Litres	Water daily	Water every 2-3 days	Weekly, until roots are established.
100L	5 to 8 Litres			

Water less in winter or after rain

Replenishment of Native Trees Species (guide only check LGA)

Botanical Name	Common Name	Height at maturity (m)	Crown Spread at maturity (m)
<i>Leptospermum petersonii</i>	Lemon Scented Tea Tree	5-8	6-10
<i>Tristaniopsis laurina</i>	Water Gum	7-10	6-10
<i>Corymbia ficifolia</i>	Red-flowing Gum	7-10	3-6
<i>Agonis flexuosa</i>	Willow Maple	7-10	6-8
<i>Melaleuca linariifolia</i>	Snow in summer	8-12	8-10
<i>Waterhousia floribunda</i>	Weeping Lilly Pilly	8-12	5-8
<i>Corymbia ficifolia</i>	Red Flowering Gum	8-12	5-8
<i>Syzygium leuhmannii</i>	Riberry	8-12	5-8
<i>Hymenosporum flavum</i>	Native Frangipani	8-12	6-8
<i>Acacia implexa</i>	Lightwood	8-12	6-8
<i>Elaeocarpus Eumundi</i>	Eumundi Quandong	8-12	4-8
<i>Tristaniopsis laurina</i>	Water gum	9-12	6-10
<i>Callistemon viminalis</i>	Weeping Bottlebrush	10-14	8-10
<i>Melaleuca linariifolia</i>	Flax-leaved Paperbark	10-14	8-10
<i>Corymbia eximia</i>	Yellow Bloodwood	10-14	7-10
<i>Cupaniopsis anacardioides</i>	Tuckeroo	10-14	10-14
<i>Eucalyptus cinerea</i>	Argyle Apple	12-14	7-9
<i>Callistemon salignus</i>	Willow Bottlebrush	12-14	6-8
<i>Eucalyptus cinerea</i>	Argyle Apple	12-14	7-10
<i>Elaeocarpus reticulatus</i>	Blueberry Ash	15-18	8-12
<i>Brachychiton populneus</i>	Kurrajong Tree	15-18	12-15
<i>Flindersia australis</i>	Australian Teak	15-18	10-12
<i>Backhousia citriodora</i>	Lemon Scented Myrtle	18-20	6-8
<i>Lophostemon confertus</i>	Brush Box	20-22	16-20
<i>Angophora costata</i>	Smooth Bark Apple	20-22	10-12

DISCLAIMER

McArdle Arboricultural Consultancy Pty Ltd does not assume responsibility for liability associated with the tree on/or adjacent to this project site, the future demise and/or any damage which may result therefrom. They take care to obtain all information from reliable sources. All data has been verified insofar as possible; however, the consultant can neither guarantee nor be responsible for the accuracy of information provided by others.

The client must inform the company if any of the data or information provided is incorrect or insufficient, which may impact the findings and proposals mentioned in the report.

McArdle Arboricultural Consultancy Pty Ltd cannot be held responsible for any consequences as result of work carried out outside specifications, not in compliance with Australian Standards ® or by inappropriately qualified staff. If further investigations such as, aerial, drill and root test are recommended, the report shall not be considered final until all investigations have been completed, as further defects may be found.

STATEMENT OF LIMITATIONS

McArdle Arboricultural Consultancy Pty Ltd makes every effort to accurately identify current tree health and hazards. Results may or may not correlate to actual tree structural integrity. There are many factors that may contribute to limb or total tree failure. Not all these symptoms are visible. There can be hidden defects that may result in a failure even though it would seem that other, more obvious defects would be the likely cause of failure. All standing trees have an element of unpredictable risk.

The inspection was limited to a visual ground examination of the tree, without aerial inspections and below ground excavations. The assessments are limited and do not include specialised analysis. No internal diagnostics, aerial inspection and pathology test were conducted. Sketches, diagrams, graphs and photographs in this report, being intended as visual aids, are not necessarily to scale.

Due to the variable nature of living organisms and the factors that can impact their health and wellbeing, the report will only be deemed valid for a period of five months from the date it was issued.

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