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Naturally Trees
PO Box 5085
Elanora Heights
NSW 2101, Australia
Phone: 0417250420
info@naturallytrees.com.au
www.naturallytrees.com.au
ABN: 58 359 914 843

Arboricultural Impact Appraisal and Method Statement

(Revision C)

STAGE 2 and 3 WORKS
Teloopa, NSW

Prepared for
Fraser's Property Australia Pty Ltd

2 November 2022

by Andrew Scales
Dip. Horticulture / Dip. Arboriculture AQF5

PO Box 5085, Elanora Heights NSW 2101
E: info@naturallytrees.com.au M: 0417 250 420

Summary

This State Significant Development Application (SSDA) seeks Concept Approval for the staged redevelopment of the Telopea Estate, as well as a detailed proposal for the first stage of development. The Concept proposal sets out the maximum building envelopes and gross floor area (GFA) that can be accommodated across the Estate, and identifies the land uses and public infrastructure upgrades to be provided. The Concept Proposal will establish the planning and development framework against which any future development application will be assessed.

This report relates to Stage 2 and 3 of the Concept Application. Stage 1 and 1A are addressed in a separate report.

I have inspected all the trees that could be affected and list their details in Appendix 2. Based on this information, I provide guidance to project architect on the constraints these trees impose on the use of the site. The current layout is a result of this detailed consultation and has evolved taking full account of these constraints.

Eighty-three high category trees and two-hundred and fifty-five low category trees will be lost for reasonable building footprints to be established on each parcel in Stages 2 and 3. However, a comprehensive landscaping scheme to mitigate these losses is proposed that will include the planting of new trees. The proposed changes may adversely affect a further eighty high category trees and one-hundred and one and three low category trees if appropriate protective measures are not taken. However, if adequate precautions to protect the retained trees are specified and implemented through the arboricultural method statement included in this report, the development proposal is expected to have a moderate to high impact on the contribution of trees to local amenity or character.

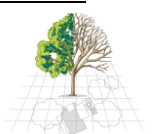


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1. INTRODUCTION

1.1 **Instruction:** This report has been prepared on behalf of Frasers Property Australia Pty Ltd (Frasers) and accompanies a State Significant Development Application (SSDA) submitted to the NSW Department of Planning, and Environment (DPIE). The SSDA seeks Concept Approval, in accordance with Division 4.4 of the Environmental Planning and Assessment Act 1979 (EP&A Act), for the staged redevelopment of the 'Telopea Estate'. This report relates to the Concept Application for development, known as 'Stage 2' and 'Stage 3'.

1.2 **Purpose of this report:** This report investigates the impact of the proposed development on trees and provides the following guidelines for appropriate tree management and protective measures:

- a schedule of the relevant trees to include basic data and a condition assessment;
- an appraisal of the impact of the proposal on trees and any resulting impact that has on local character and amenity;
- a preliminary arboricultural method statement setting out appropriate protective measures and management for trees to be retained.

The report provides an analysis of the impact of the development proposal on trees with additional guidance on appropriate management and protective measures for Stage 2 and Stage 3 of the Concept Application. Its primary purpose is for the council to review the tree information in support of the planning submission and use as the basis for issuing a planning consent or engaging in further discussions towards that end. Within this planning process, it will be available for inspection by people other than tree experts, so the information is presented to be helpful to those without a detailed knowledge of the subject.

1.3 **Qualifications and experience:** I have based this report on my site observations and the provided information, and I have come to conclusions in the light of my experience. I have experience and qualifications in arboriculture and include a summary in Appendix 1.

1.4 **Documents and information provided:** Frasers Property Australia provided me with copies of the following documents:

- Survey Plan, Dwg No. 191-19G (Sheet 1 to 36), by Craig and Rhodes dated 16 March 2020; and
- Masterplan, Dwg No. DA01.MP.120 4, DA01.MP.220 2, DA01.MP.320 2 and DA02.MP.130 3, by Bates Smart Pty Ltd dated 7 October 2022.



- 1.5 **Scope of this report:** This report is only concerned with five-hundred and nineteen trees located within five metres of proposed works located on the Concept Application land in Stages 2 and 3. It takes no account of other trees, shrubs or groundcovers within the site unless stated otherwise. It includes a preliminary assessment based on the site visit and the documents provided, listed in 1.4 above.



2. THE LAYOUT DESIGN

- 2.1 **Tree AZ method of tree assessment:** The TreeAZ assessment method determines the worthiness of trees in the planning process. TreeAZ is based on a systematic method of assessing whether individual trees are important and how much weight they should be given in management considerations. Simplistically, trees assessed as potentially important are categorised as 'A' and those assessed as less important are categorised as 'Z'. Further explanation of TreeAZ can be found in Appendix 3.

In the context of new development, all the Z trees are discounted as a material constraint in layout design. All the A trees are potentially important and they dictate the design constraints. This relatively simple constraints information is suitable for use by the architect to optimise the retention of the best trees in the context of other material considerations.

2.2 Site visit and collection of data

- 2.2.1 **Site visit:** I carried out an unaccompanied site visit on 20 January 2020. All my observations were from ground level without detailed investigations and I estimated all dimensions unless otherwise indicated. I did not have access to trees on other private properties and have confined observations of them to what was visible from within the property. The weather at the time of inspection was clear and dry with good visibility.
- 2.2.2 **Brief site description:** The Telopea Estate is located in the Parramatta Local Government Area (LGA). It is approximately 4km north-east of the Parramatta Central Business District (CBD), 6km south-west of Macquarie Park Strategic Centre, and 17km from Sydney CBD (refer Figure 1).



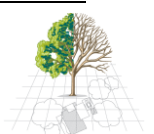
Figure 1: The location of the Stage 2 and 3 works (www.googlemaps.com).



The Telopea Concept Plan site is approximately 13.4 (ha) and comprises 99 individual allotments. It currently accommodates 486 social housing dwellings, across a mix of single dwelling, townhouse, and 3-9 storey residential flat buildings as well as the existing community facilities including the Dundas Community Centre, Dundas Branch Library, Community Health Centre, Hope Connect church, and Telopea Christian Centre. However, the report relates to Stages 2 and 4 of the Concept Application

A variety of ornamental, coniferous and locally indigenous trees are scattered throughout the site area and the site boundaries.

- 2.2.3 **Collection of basic data:** I inspected each tree and have collected information on species, height, diameter, maturity and potential for contribution to amenity in a development context. I have recorded this information in the tree schedule included, with explanatory notes, in Appendix 2. Each tree was then allocated to one of four categories (AA, A, Z or ZZ), which reflected its suitability as a material constraint on development.
- 2.2.4 **Identification and location of the trees:** I have illustrated the locations of the significant trees on the Tree Management Plan (Plan TMP01) included as Appendix 8. This plan is for illustrative purposes only and it should not be used for directly scaling measurements.
- 2.2.5 **Advanced interpretation of data:** Australian Standard *Protection of trees on development sites* (AS4970-2009), recommends that the trunk diameter measurement for each tree is used to calculate the tree protection zone (TPZ), which can then be interpreted to identify the design constraints and, once a layout has been consented, the exclusion zone is to be protected by barriers.
- 2.3 **The use of the tree information in layout design:** Following my inspection of the trees, the information listed in Appendix 2 was used to provide constraints guidance based on the locations of all the A trees. All the Z trees were discounted because they were not considered worthy of being a material constraint. This guidance identified two zones of constraint based on the following considerations:
- **The tree protection zone (TPZ)** is an area where ground disturbance must be carefully controlled. The TPZ was established according to the recommendations set out in AS4970-2009 and is the radial offset distance of twelve (x12) times the trunk diameter. In principle, a maximum encroachment of 10% is acceptable within the TPZ and a high level of care is needed during any activities that are authorised within it if important trees are to be successfully retained.
 - **The structural root zone (SRZ)** is a radial distance from the centre of a tree's trunk, where it is likely that structural, woody roots would be encountered. The distance is calculated on trunk flare diameter at ground level. The SRZ may also be influenced by natural or built structures, such as rocks and footings. The SRZ only needs to be calculated when major encroachment (>10%) into a TPZ is proposed.



3. ARBORICULTURAL IMPACT APPRAISAL

3.1 **Summary of the impact on trees:** I have assessed the impact of the proposal on trees by the extent of disturbance in TPZs and the encroachment of structures into the SRZ (as set out briefly in 2.3 above and more extensively in Appendix 2). All the trees that may be affected by the development proposal are listed in Table 1

Table 1: Summary of existing trees and trees that may be affected by development

Impact	Reason	Important trees		Unimportant trees	
		AA	A	Z	ZZ
Retained trees that may be affected through disturbance to TPZs	Removal of existing surfacing/structures/landscaping and/or installation of new surfacing/structures/landscaping	61, 70, 71, 88, 90, 117, 300, 405, 479	1, 6, 11, 36, 47, 60, 62, 81, 89, 91, 101, 115, 127, 136, 143, 145, 162, 173, 177, 185, 237, 238, 239, 240, 241, 253, 257, 268, 269, 283, 292, 297, 303, 304, 305, 308, 321, 332, 333, 335, 337, 339, 340, 346, 363, 364, 366, 372, 392, 395, 413, 430, 431, 432, 433, 442, 446, 451, 452, 453, 454, 458, 459, 460, 461, 462, 463, 482, 498, 506, 512	17, 18, 19, 34, 35, 48, 49, 63, 64, 76, 80, 82, 106, 116, 126, 138, 164, 165, 166, 175, 186, 193, 198, 215, 219, 236, 242, 251, 254, 255, 260, 296, 299, 302, 311, 323, 324, 325, 327, 331, 349, 362, 371, 383, 384, 385, 387, 388, 389, 390, 391, 393, 394, 406, 412, 425, 434, 435, 445, 447, 457, 464, 465, 466, 467, 489, 490, 491, 492, 493, 494, 495, 499, 504, 507	50, 51, 52, 53, 86, 111, 132, 144, 172, 174, 176, 234, 235, 252, 301, 360, 361, 367, 373, 374, 375, 376, 377, 450, 484, 500
Trees to be removed	Building and driveway construction and/or level variations within TPZ	184, 348	2, 7, 8, 20, 24, 32, 45, 54, 57, 59, 65, 66, 67, 77, 84, 85, 87, 103, 107, 109, 118, 120, 124, 130, 133, 135, 139, 140, 141, 147, 161, 170, 182, 183, 187, 194, 199, 200, 209, 220, 221, 243, 261, 262, 266, 279, 284, 293, 294, 314, 319, 322, 330, 336, 338, 347, 350, 351, 352, 354, 357, 378, 380, 399, 410, 426, 436, 437, 441, 455, 470, 472, 473, 475, 478, 480, 485, 497, 502, 503, 518	3, 4, 5, 9, 10, 12, 13, 14, 15, 16, 21, 22, 23, 25, 26, 28, 29, 30, 31, 37, 38, 39, 40, 41, 42, 46, 58, 68, 74, 75, 93, 94, 95, 96, 97, 98, 100, 102, 104, 105, 112, 113, 114, 123, 125, 128, 129, 131, 134, 137, 142, 146, 148, 149, 150, 154, 157, 158, 159, 163, 167, 171, 178, 179, 180, 181, 188, 189, 190, 191, 192, 195, 201, 202, 203, 204, 205, 206, 207, 208, 212, 213, 214, 222, 226, 227, 228, 230, 232, 245, 246, 250, 258, 265, 267, 271, 273, 274, 275, 276, 277, 278, 280, 281, 282, 285, 287, 288, 290, 291, 298, 306, 307, 310, 312, 313, 315, 320, 328, 334, 341, 342, 343, 344, 345, 353, 356, 358, 359, 365, 368, 381, 382, 386, 396, 400, 401, 404, 407, 411, 415, 416, 417, 418, 419, 420, 429, 438, 439, 440, 443, 444, 448, 449, 456, 468, 469, 471, 474, 476, 477, 481, 483, 488, 496, 501, 508, 509, 510, 513, 514, 516, 517, 519	27, 33, 43, 44, 55, 56, 69, 72, 73, 78, 79, 83, 92, 99, 108, 110, 119, 121, 122, 151, 152, 153, 155, 156, 160, 168, 169, 196, 197, 210, 211, 216, 217, 218, 223, 224, 225, 229, 231, 233, 244, 247, 248, 249, 256, 259, 263, 264, 270, 272, 286, 289, 295, 309, 316, 317, 318, 326, 329, 355, 369, 370, 379, 397, 398, 402, 403, 408, 409, 414, 421, 422, 423, 424, 427, 428, 486, 487, 505, 511, 515



3.2 Detailed impact appraisal

3.2.1 **Category AA and A trees to be lost:** The proposed development will necessitate the removal of eighty-three high category trees. These trees are considered moderate to high significance and display good health and condition. To compensate for loss of amenity, consideration should be given to replacement planting within the site.

3.2.2 **Category AA and A trees that could potentially be adversely affected through TPZ disturbance:** Eighty category A and AA trees could potentially be adversely affected through disturbance to their TPZs as follows:

- The eighty trees nominated for retention are important trees with a high potential to contribute to amenity so any adverse impacts on them should be minimised. These trees are mostly located within the proposed 'deep soil' areas and clear of proposed construction works.

If it is intended to retain these trees, design and/or siting modification would be required to be considered to accommodate setbacks as prescribed by the Australian Standard AS4970-2009 *Protection of trees on development sites*. Specifically, the proposed buildings would need to be positioned to accommodate tree canopies and provide adequate clearance for site access during construction. Existing ground levels would be required to remain within their TPZ to avoid severance of structural and feeder roots.

Tree sensitive construction measures must be implemented if works are to proceed within, or near, their TPZ as prescribed by the Australian Standard AS4970-2009 *Protection of trees on development sites*. Similarly, excavation works required to be undertaken within the TPZ should be performed by hand under the supervision of the project arborist. Existing ground levels would be required to remain within their TPZ, and the below ground services to be relocated outside their TPZ to avoid severance of structural roots.

3.2.3 **Low category trees to be retained:** One-hundred and one low category trees could be successfully retained without any adverse effects if appropriate protective measures are properly specified and controlled through a detailed arboricultural method statement.

3.2.4 **Low category trees to be removed:** The proposed development will necessitate the removal of two-hundred and fifty-five of low and very low retention value. None of these trees are considered significant or worthy of special measures to ensure their preservation. It should be noted that Trees 27, 38, 42, 55, 92, 110, 122, 123, 151, 152, 153, 155, 156, 160, 168, 169, 171, 196, 197, 211, 217, 223, 224, 225, 229, 231, 233, 244, 247, 250, 256, 263, 264, 272, 276, 286, 289, 290, 291, 295, 309, 316, 317, 318, 320, 326, 341, 355, 358, 359, 369, 370, 396, 397, 398, 400, 402, 403, 408, 409, 411, 414, 415, 416, 417, 418, 421, 422, 423, 429, 424, 427, 440, 444, 449, 469, 505 and 511 are exempt under Part 5.4 of Parramatta Development Control Plan 2011 *Preservation of Trees and Vegetation*.



3.3 Proposals to mitigate any impact

- 3.3.1 **Protection of retained trees:** The successful retention of trees within the site will depend on the quality of the protection and the administrative procedures to ensure protective measures remain in place throughout the development. An effective way of doing this is through an arboricultural method statement that can be specifically referred to in the planning condition. An arboricultural method statement for this site is set out in detail in Section 4.
- 3.3.2 **New planting:** In the context of the loss of trees, a comprehensive new landscaping scheme is proposed including semi-mature trees to be planted within available areas in prominent locations. The new trees should have the potential to reach a significant height without excessive inconvenience and be sustainable into the long term, significantly improving the potential of the site to contribute to local amenity and character.
- 3.3.3 **Summary of the impact on local amenity:** Eighty-three high category trees and two-hundred and fifty-five low category trees will be lost for reasonable building footprints to be established on each parcel in Stages 2 and 3. However, a comprehensive landscaping scheme to mitigate these losses is proposed that will include the planting of new trees. The proposed changes may adversely affect a further eighty high category trees and one-hundred and one and three low category trees if appropriate protective measures are not taken. However, if adequate precautions to protect the retained trees are specified and implemented through the arboricultural method statement included in this report, the development proposal is expected to have a moderate to high impact on the contribution of trees to local amenity or character.



4. ARBORICULTURAL METHOD STATEMENT

4.1 Introduction

- 4.1.1 **Terms of reference:** The impact appraisal in Section 3 identified the potential impacts on trees caused by proposed development. Section 4 is an arboricultural method statement setting out management and protection details that must be implemented to secure successful tree retention. It has evolved from Australian Standard AS4970-2009 *Protection of trees on development sites*.
- 4.1.2 **Plan TMP01:** Plan TMP01 in Appendix 8 is illustrative and based entirely on provided information. This plan should only be used for dealing with the tree issues and all scaled measurements must be checked against the original submission documents. The precise location of all protective measures must be confirmed at the pre-commencement meeting before any demolition or construction activity starts. Its base is the existing land survey, which has the proposed layout superimposed so the two can be easily compared. It shows the existing trees numbered, with high categories (A) highlighted in green triangles and low categories (Z) highlighted in blue rectangles. It also shows the locations of the proposed protective measures.

4.2 Tree protection with fencing and ground protection

- 4.2.1 **Protection fencing:** Tree protection fencing must comply with AS4970 (section 4.3) recommendations. An illustrative guide is included as Appendix 4. The approximate location of the barriers and the TPZs is illustrated on plan TMP01. The precise location of the fencing must be agreed with the project Arborist before any development activity starts.
- 4.2.2 **Ground protection:** Any TPZs outside the protective fencing must be covered in ground protection based on AS4970 recommendations until there is no risk of damage from the demolition and construction activity. An illustrative specification for this ground protection is included as Appendix 5. On this site, it must be installed near retained trees if access is required across a TPZ before any demolition and construction starts.
- 4.3 **Precautions when working in TPZs:** Any work in TPZs must be done with care as set out in Appendix 6. On this site, special precautions must be taken near retained trees as illustrated on plan TMP01 and summarised below:
- **Removal of existing surfacing/structures and replacement with new surfacing/structures:** Retained trees may be adversely affected by the demolition and construction works or the installation of new surfacing. Any adverse impact must be minimised by following the guidance set out in Appendix 6.



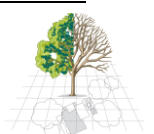
- **Installation of new soft landscaping:** All landscaping activity within TPZs has the potential to cause severe damage and any adverse impact must be minimised by following the guidance set out in Section 7 of Appendix 6.
- **Installation of new services or upgrading of existing services:** It is often difficult to clearly establish the detail of services until the construction is in progress. Where possible, it is proposed to use the existing services into the site and keep all new services outside TPZs. However, where existing services within TPZs require upgrading or new services have to be installed in TPZs, great care must be taken to minimise any disturbance. Trenchless installation should be the preferred option but if that is not feasible, any excavation must be carried out by hand according to the guidelines set out in Section 6 of Appendix 6. If services do need to be installed within TPZs, consultation must be obtained from the project Arborist and/or council before any works are carried out.
- **Damage to street trees:** Any damage to street trees as a result of erection of hoardings, scaffolding or due to the loading/unloading of vehicles adjacent the site must be immediately reported to the Council's Street Tree Contract Coordinator, in order to determine the appropriate action for maintaining the health and structural integrity of any damaged street tree.

4.4 Other tree related works

- 4.4.1 **Site storage, cement mixing and washing points:** All site storage areas, cement mixing and washing points for equipment and vehicles must be outside TPZs unless otherwise agreed with the project Arborist and/or council. Where there is a risk of polluted water run-off into TPZs, heavy-duty plastic sheeting and sandbags must be used to contain spillages and prevent contamination.
- 4.4.2 **Pruning:** Any pruning that is required to accommodate hoardings, scaffolding or to accommodate the unloading/loading of vehicles and has been approved by Council shall be carried out by a qualified Arborist (AQF3) and must be in accordance with AS4373 Australian Standards 'Pruning of Amenity Trees'.

4.5 Programme of tree protection and supervision

- 4.5.1 **Overview:** Tree protection cannot be reliably implemented without arboricultural input. The nature and extent of that input varies according to the complexity of the issues and the resources available on site. For this site, a summary of the level of arboricultural input that is likely to be required is set out in Appendix 7. The project arborist must be instructed to work within this framework to oversee the implementation of the protective measures and management proposals set out in this arboricultural method statement.



The framework in Appendix 7 must form the basis for the discharge of planning conditions through site visits by the project arborist. These supervisory actions must be confirmed by formal letters circulated to all relevant parties. These permanent records of each site visit will accumulate to provide the proof of compliance and allow conditions to be discharged as the development progresses. The developer must instruct the project arborist to comply with the supervision requirements set out in this document before any work begins on site.

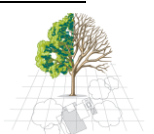
4.5.2 Phasing of arboricultural input: Trees can only be properly budgeted for and factored into the developing work programmes if the overall project management takes full account of tree issues once consent is confirmed. The project arborist must be involved in the following phases of the project management:

1. Administrative preparation before work starts on site: It is normal for a development proposal to vary considerably from the expectations before consent as the detailed planning of implementation evolves. The early instruction of the project arborist ensures that tree issues are factored into the complexities of site management and can often help ease site pressures through creative approaches to tree protection. Pre-commencement discussions between the project arborist and the developer's team is an effective means of managing the tree issues with difficult constraints.

2. Pre-commencement site meeting: A pre-commencement meeting must be held on site before any of the demolition and construction work begins. This must be attended by the site manager and the project arborist. Any clarifications or modifications to the consented details must be recorded and circulated to all parties in writing. This meeting is where the details of the programme of tree protection will be agreed and finalised by all parties, which will then form the basis of any supervision arrangements between the project arborist and the developer.

3. Site supervision: Once the site is active, the project arborist must visit at an interval agreed at the pre-commencement site meeting. The supervision arrangement must be sufficiently flexible to allow the supervision of all sensitive works as they occur. The project arborist's initial role is to liaise with developer to ensure that appropriate protective measures are designed and in place before any works start on site. Once the site is working, that role will switch to monitoring compliance with arboricultural conditions and advising on any tree problems that arise or modifications that become necessary.

4.6 Site management: It is the developer's responsibility to ensure that the details of this arboricultural method statement and any agreed amendments are known and understood by all site personnel. Copies of the agreed documents must be kept on site at all times and the site manager must brief all personnel who could have an impact on trees on the specific tree protection requirements. This must be a part of the site induction procedures and written into appropriate site management documents.



5. HOW TO USE THIS REPORT

5.1 **Limitations:** It is common that the detail of logistical issues such as site storage and the build programme are not finalised until after consent is issued. As this report has been prepared in advance of consent, some of its content may need to be updated as more detailed information becomes available once the post-consent project management starts. Although this document will remain the primary reference in the event of any disputes, some of its content may be superseded by authorised post-consent amendments.

5.2 **Suggestions for the effective use of this report:** Section 4 of this report, including the relevant appendices, is designed as an enforcement reference. It is constructed so the council can directly reference the detail in a planning condition. Referencing the report by name and relating conditions to specific subsections is an effective means of reducing confusion and facilitating enforcement in the event of problems during implementation. More specifically, the following issues should be directly referenced in the conditions for this site:

1. Pre-commencement meeting	4.5
2. Protection fence	4.2.1 and Appendix 4
3. Ground protection	4.2.2 and Appendix 5
4. Removal of surfacing/structures	4.3 and Appendix 6 (Section 4)
5. Installation of surfacing/structures	4.3 and Appendices 6 (Section 5)
6. Services	4.3 and Appendix 6 (Section 6)
7. Landscaping	4.3 and Appendix 6 (Section 7)
8. Programming of tree protection	4.5 and Appendix 7
9. Arboricultural supervision	4.5 and Appendix 7

Each of the above matters shall be supervised by the project arborist and the relevant conditions can only be discharged once that supervision has been confirmed in writing to the relevant parties. The last column of the table in Appendix 7 is to be used so that the various supervision issues can be recorded as they are confirmed by supervision letters. It is intended to act as a summary quick reference to help keep track of the progress of the supervision.



6. OTHER CONSIDERATIONS

- 6.1 **Trees subject to statutory controls:** The subject trees (excluding trees listed in Table 2) are legally protected under Part 5.4 of Parramatta Development Control Plan 2011 *Preservation of Trees and Vegetation*. It will be necessary to consult the council before any pruning or removal works other than certain exemptions can be carried out.

Table 2: Exempt trees under Part 5.4 of Parramatta Development Control Plan 2011 *Preservation of Trees and Vegetation*.

Exempt trees
27, 38, 42, 50, 51, 52, 53, 55, 76, 82, 92, 106, 110, 111, 112, 122, 123, 126, 151, 152, 153, 155, 156, 160, 168, 169, 171, 196, 197, 211, 217, 223, 224, 225, 229, 231, 233, 244, 247, 250, 252, 256, 263, 264, 272, 276, 286, 289, 290, 291, 295, 301, 309, 316, 317, 318, 320, 326, 341, 355, 358, 359, 369, 370, 393, 396, 397, 398, 400, 402, 403, 406, 408, 409, 411, 414, 415, 416, 417, 418, 421, 422, 423, 429, 424, 427, 440, 444, 449, 457, 469, 495, 500, 505, 511

- 6.2 **Trees outside the property:** Trees located in the adjacent properties effectively out of the control of LAHC. It will not be possible to easily carry out the recommended works without the full co-operation of the tree owners. The implications of non-cooperation require legal interpretation and are beyond the scope of this report.

7. BIBLIOGRAPHY

7.1 List of references:

Australian Standard AS4373-2007 *Pruning of Amenity Trees*.
Standards Australia.

Australian Standard AS4970-2009 *Protection of trees on development sites*.
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International Society of Arboriculture, Savoy, Illinois.

Mattheck, Dr. Claus R., Breloer, Helge (1995) The Body Language of Trees - A Handbook for Failure Analysis;
The Stationery Office, London. England.

Robinson, L (1994) Field Guide to the Native Plants of Sydney
Kangaroo Press, Kenthurst NSW



8. DISCLAIMER

8.1 Limitations on use of this report:

This report is to be utilized in its entirety only. Any written or verbal submission, report or presentation that includes statements taken from the findings, discussions, conclusions or recommendations made in this report, may only be used where the whole of the original report (or a copy) is referenced in, and directly attached to that submission, report or presentation.

ASSUMPTIONS

Care has been taken to obtain all information from reliable sources. All data has been verified insofar as possible: however, Naturally Trees can neither guarantee nor be responsible for the accuracy of information provided by others.

Unless stated otherwise:

- *Information contained in this report covers only those trees that were examined and reflects the condition of those trees at time of inspection: and*
- *The inspection was limited to visual examination of the subject trees without dissection, excavation, probing or coring. There is no warranty or guarantee, expressed or implied, that problems or deficiencies of the subject trees may not arise in the future.*

Yours sincerely



Andrew Scales
Dip. Horticulture
Dip. Arboriculture AQF5



APPENDIX 1

Brief qualifications and experience of Andrew Scales

1. Qualifications:

Associate Diploma Horticulture	Northern Sydney Institute of TAFE	1998
Certificate in Tree Surgery	Northern Sydney Institute of TAFE	1998
Diploma of Horticulture (Arboriculture)	Northern Sydney Institute of TAFE	2006
Diploma of Arboriculture AQF5	Northern Sydney Institute of TAFE	2019

2. Practical experience:

Being involved in the arboricultural/horticultural industry for in excess of 20 years, I have developed skills and expertise recognized in the industry. Involvement in the construction industry and tertiary studies has provided me with a good knowledge of tree requirements within construction sites.

As director of Naturally Trees, in this year alone I have undertaken hundreds of arboricultural consultancy projects and have been engaged by a range of clients to undertake tree assessments. I have gained a wide range of practical tree knowledge through tree removal and pruning works.

3. Continuing professional development:

Visual Tree Assessment (Prof. Dr. Claus Mattheck)	Northern Sydney Institute of TAFE	2001
Wood Decay in Trees (F.W.M.R.Schwarze)	Northern Sydney Institute of TAFE	2004
Visual Tree Assessment (Prof. Dr. Claus Mattheck)	Carlton Hotel, Parramatta NSW	2004
Tree A-Z / Report Writing (Jeremy Barrell)	Northern Sydney Institute of TAFE	2006
Up by Roots – Healthy Soils and Trees in the Built Environment (James Urban)	The Sebel Parramatta NSW	2008
Tree Injection for Insect Control (Statement of Attainment)	Northern Sydney Institute of TAFE	2008
Quantified Tree Risk Assessment (QTRA) Registered Licensee #1655	South Western Sydney Institute TAFE	2011
Practitioners Guide to Visual Tree Assessment	South Western Sydney Institute TAFE	2011
Quantified Tree Risk Assessment (QTRA) Registered Licensee #1655	Richmond College NSW TAFE	2014
VALID Approach to Likelihood of Failure (David Evans)	Centennial Park NSW	2017



APPENDIX 2

Tree schedule

NOTE: Colour annotation is AA & A trees with green background; Z & ZZ trees with blue background; trees to be removed in red text.

No.	Genus species	Height	Spread	DBH	TPZ	Foliage %	Age class	Defects/Comment	Location	Services	Significance	Tree AZ
1	<i>Melaleuca quinquenervia</i>	9	6	350	4.2	80%	M	Nil	Grass	Kerb	M	A1
2	<i>Eucalyptus scoparia</i>	9	5	300	3.6	70%	M	Nil	Grass	Nil	M	A1
3	<i>Chamaecyparis sp.</i>	8	5	300	3.6	60%	M	Nil	Grass	Nil	M	Z12
4	<i>Chamaecyparis sp.</i>	8	5	300	3.6	60%	M	Nil	Grass	Nil	M	Z12
5	<i>Pittosporum undulatum</i>	7	5	250	3.0	70%	M	Co-dominant	Grass	Adj. structure	M	Z1
6	<i>Melaleuca armillaris</i>	8	6	400	4.8	80%	M	Nil	Garden	Adj. building	M	A1
7	<i>Stenocarpus sinuatus</i>	9	6	300	3.6	90%	M	Nil	Grass	Adj. building	M	A1
8	<i>Syzygium paniculata</i>	12	10	450	5.4	80%	M	Nil	Gravel	Adj. structure	H	A1
9	<i>Jacaranda mimosifolia</i>	8	7	350	4.2	70%	M	Nil	Grass	Nil	M	Z1
10	<i>Jacaranda mimosifolia</i>	7	6	300	3.6	70%	M	Co-dominant	Grass	Nil	M	Z1
11	<i>Grevillea robusta</i>	14	9	400	4.8	70%	M	Nil	Grass	Nil	M	A1
12	<i>Cinnamomum camphora</i>	12	9	450	5.4	70%	M	Nil	Grass	Nil	M	Z10
13	<i>Cinnamomum camphora</i>	9	7	250	3.0	70%	S	Nil	Grass	Nil	L	Z10
14	<i>Pyrus sp.</i>	7	7	300	3.6	80%	M	Co-dominant	Grass	Nil	M	Z1
15	<i>Jacaranda mimosifolia</i>	7	6	300	3.6	70%	M	Co-dominant	Grass	Nil	M	Z1
16	<i>Pinus radiata</i>	10	9	400	4.8	60%	O	Nil	Grass	Adj. structure	M	Z4
17	<i>Callistemon sp.</i>	4	4	150	2.0	60%	M	Lopped	Grass	LV wires	L	Z1
18	<i>Callistemon sp.</i>	5	5	250	3.0	60%	M	Lopped	Grass	LV wires	L	Z1
19	<i>Callistemon sp.</i>	5	5	250	3.0	60%	M	Lopped	Grass	LV wires	L	Z1
20	<i>Grevillea robusta</i>	12	8	350	4.2	70%	M	Nil	Grass	Nil	M	A1
21	<i>Grevillea robusta</i>	10	4	250	3.0	70%	S	Co-dominant	Grass	Nil	M	Z10
22	<i>Liquidambar styraciflua</i>	14	12	450	5.4	80%	M	Co-dominant Included bark	Grass	Adj. driveway	H	Z9
23	<i>Pittosporum undulatum</i>	6	4	150	2.0	80%	S	Nil	Garden	Nil	L	Z1
24	<i>Liquidambar styraciflua</i>	16	10	450	5.4	80%	M	Co-dominant	Garden	Nil	H	A1
25	<i>Callistemon sp.</i>	6	4	150	2.0	70%	M	Nil	Grass	Nil	L	Z1
26	<i>Callistemon sp.</i>	6	4	150	2.0	70%	M	Nil	Grass	Nil	L	Z1
27	<i>Olea sp.</i>	5	3	100	2.0	70%	M	Nil	Grass	Nil	L	ZZ3
28	<i>Eucalyptus sideroxylon</i>	16	10	450	5.4	40%	M	Nil	Garden	Adj. driveway	H	Z4
29	<i>Eucalyptus sideroxylon</i>	16	10	450	5.4	40%	M	Nil	Garden	Adj. driveway	H	Z4



No.	Genus species	Height	Spread	DBH	TPZ	Foliage %	Age class	Defects/Comment	Location	Services	Significance	Tree AZ
30	<i>Eucalyptus sideroxylon</i>	16	10	450	5.4	40%	M Nil		Garden	Adj. driveway	H	Z4
31	<i>Jacaranda mimosifolia</i>	8	6	300	3.6	70%	M Nil		Grass	Nil	M	Z1
32	<i>Araucaria heterophylla</i>	16	9	400	4.8	80%	M Nil		Grass	Nil	H	A1
33	<i>Cupressus sp.</i>	9	6	250	3.0	50%	O Dieback		Grass	Nil	M	ZZ4
34	<i>Callistemon sp.</i>	5	4	150	2.0	60%	M Co-dominant		Grass	Nil	L	Z1
35	<i>Callistemon sp.</i>	5	4	150	2.0	60%	M Co-dominant		Grass	Nil	L	Z1
36	<i>Melaleuca quinquenervia</i>	9	6	350	4.2	80%	M Nil		Grass	Nil	M	A1
37	<i>Corymbia maculata</i>	12	9	400	4.8	50%	M Nil		Grass	Nil	M	Z4
38	<i>Schinus terebinthifolia</i>	7	5	250	3.0	70%	M Nil		Grass	Nil	L	Z3
39	<i>Grevillea robusta</i>	20	14	600	7.2	50%	O Dieback		Garden	Adj. building	H	Z10
40	<i>Eriobotrya japonica</i>	6	6	200	2.4	80%	M Nil		Garden	Nil	L	Z3
41	<i>Jacaranda mimosifolia</i>	7	4	200	2.4	70%	S Nil		Garden	Adj. driveway	L	Z1
42	<i>Morus sp.</i>	5	5	250	3.0	70%	M Nil		Garden	Nil	L	Z3
43	<i>Eriobotrya japonica</i>	6	4	150	2.0	70%	M Nil		Grass	Adj. driveway	L	ZZ3
44	<i>Cinnamomum camphora</i>	6	4	150	2.0	90%	S Nil		Garden	Adj. building	L	ZZ1
45	<i>Jacaranda mimosifolia</i>	10	9	350	4.2	70%	M Co-dominant		Grass	Nil	M	A1
46	<i>Callistemon sp.</i>	6	4	250	3.0	80%	M Nil		Grass	Nil	L	Z1
47	<i>Jacaranda mimosifolia</i>	9	10	300	3.6	80%	M Nil		Grass	Nil	M	A1
48	<i>Callistemon sp.</i>	5	4	250	3.0	70%	M Nil		Grass	LV wires	L	Z1
49	<i>Callistemon sp.</i>	5	4	250	3.0	70%	M Nil		Grass	LV wires	L	Z1
50	<i>Syagrus romanzoffiana</i>	7	3	250	3.0	70%	M Nil		Grass	Nil	L	ZZ3
51	<i>Syagrus romanzoffiana</i>	7	3	250	3.0	70%	M Nil		Grass	Nil	L	ZZ3
52	<i>Syagrus romanzoffiana</i>	7	3	250	3.0	70%	M Nil		Grass	Nil	L	ZZ3
53	<i>Syagrus romanzoffiana</i>	7	3	250	3.0	70%	M Nil		Grass	Nil	L	ZZ3
54	<i>Cedrus deodara</i>	14	12	600	7.2	80%	M Nil		Grass	Nil	H	A1
55	<i>Ligustrum sp.</i>	8	5	250	3.0	70%	M Nil		Grass	Adj. building	L	ZZ3
56	<i>Cinnamomum camphora</i>	8	4	200	2.4	80%	S Nil		Garden	Nil	L	ZZ1
57	<i>Cedrus deodara</i>	14	12	600	7.2	80%	M Nil		Grass	Nil	H	A1
58	<i>Cupressus sp.</i>	7	5	250	3.0	70%	M Co-dominant		Grass	Nil	L	Z1
59	<i>Callistemon sp.</i>	7	7	300	3.6	70%	M Co-dominant		Grass	Nil	M	A1
60	<i>Liquidambar styraciflua</i>	14	12	500	6.0	80%	M Nil		Grass	Nil	M	A1
61	<i>Eucalyptus saligna</i>	28	20	900	10.8	80%	M Cavity on NE side trunk		Grass	Nil	H	AA1
62	<i>Liquidambar styraciflua</i>	14	10	600	7.2	80%	M Nil		Gravel	Nil	H	A1
63	<i>Liquidambar styraciflua</i>	10	6	400	4.8	70%	M Nil		Gravel	Nil	M	Z10



No.	Genus species	Height	Spread	DBH	TPZ	Foliage %	Age class	Defects/Comment	Location	Services	Significance	Tree AZ
64	Jacaranda mimosifolia	9	7	300	3.6	60%	M	Dieback	Garden	Nil	L	Z4
65	Jacaranda mimosifolia	16	12	500	6.0	80%	M	Co-dominant	Grass	Nil	M	A1
66	Jacaranda mimosifolia	16	12	500	6.0	80%	M	Co-dominant	Grass	Nil	M	A1
67	Cupressus sp.	12	8	500	6.0	80%	M	Nil	Grass	Nil	M	A1
68	Pittosporum undulatum	9	6	350	4.2	70%	M	Nil	Grass	Nil	L	Z10
69	Eucalyptus scoparia	8	7	450	5.4	30%	O	Failed central leader	Grass	LV wires	M	ZZ4
70	Eucalyptus sideroxylon	24	16	600	7.2	90%	M	Nil	Grass	Nil	H	AA1
71	Eucalyptus robusta	24	20	700	8.4	80%	M	Nil	Grass	Nil	H	AA1
72	Eucalyptus scoparia	10	8	350	4.2	30%	O	Dieback	Grass	Nil	M	ZZ4
73	Eucalyptus scoparia	18	10	600	7.2	60%	O	Bracket fungi Cavity Failures	Grass	Adj. building	H	ZZ5
74	Chamaecyparis sp.	10	6	350	4.2	70%	M	Nil	Grass	Nil	M	Z10
75	Chamaecyparis sp.	10	6	350	4.2	70%	M	Nil	Grass	Nil	M	Z10
76	Melia azedarach	9	7	350	4.2	70%	S	Included bark	Garden	Nil	M	Z3
77	Cupressus sp.	16	9	600	7.2	80%	M	Nil	Grass	Adj. structure	H	A1
78	Eucalyptus paniculata	18	14	600	7.2	0%	M	Dead tree	Grass	Adj. building	H	ZZ4
79	Eucalyptus sideroxylon	16	10	450	5.4	20%	M	Bracket fungi Cavity	Grass	Adj. structure	M	ZZ4
80	Cinnamomum camphora	12	7	350	4.2	70%	M	Nil	Garden	Adj. structure	M	Z10
81	Cedrus deodara	18	14	700	8.4	80%	M	Nil	Garden	Adj. building	H	A1
82	Schinus terebinthifolia	16	14	900	10.8	70%	M	Leaning	Garden	Adj. structure	H	Z3
83	Cinnamomum camphora	9	8	250	3.0	70%	S	Nil	Garden	Adj. building	L	ZZ1
84	Cupressus sp.	16	7	500	6.0	80%	M	Nil	Grass	Nil	M	A1
85	Cupressus sp.	16	7	500	6.0	80%	M	Nil	Grass	Nil	M	A1
86	Eucalyptus scoparia	10	9	450	5.4	50%	O	Bracket fungi Cavity Dieback	Grass	Nil	M	ZZ4
87	Cupressus sp.	16	7	500	6.0	80%	M	Nil	Grass	Nil	M	A1
88	Eucalyptus paniculata	22	16	600	7.2	80%	M	Nil	Grass	Nil	H	AA1
89	Eucalyptus robusta	12	10	450	5.4	70%	M	Nil	Grass	Nil	H	A1
90	Eucalyptus robusta	20	16	700	8.4	80%	M	Nil	Grass	Nil	H	AA1
91	Pinus patula	22	16	600	7.2	80%	M	Nil	Grass	Nil	H	A1
92	Eucalyptus sp.	16	12	500	6.0	0%	O	Dead tree	Grass	Adj. building	M	ZZ4
93	Cinnamomum camphora	12	7	450	5.4	70%	M	Nil	Garden	LV wires	M	Z10
94	Cinnamomum camphora	9	7	300	3.6	80%	S	Nil	Garden	Adj. building	M	Z1
95	Camellia sp.	5	5	150	2.0	80%	M	Nil	Grass	Nil	L	Z1
96	Ceratopetalum gummiferum	8	5	200	2.4	70%	M	Nil	Garden	Nil	L	Z1
97	Grevillea robusta	14	7	300	3.6	80%	S	Nil	Garden	Adj. building	M	Z10



No.	Genus species	Height	Spread	DBH	TPZ	Foliage %	Age class	Defects/Comment	Location	Services	Significance	Tree AZ
98	<i>Pittosporum undulatum</i>	8	6	200	2.4	70%	M	Nil	Garden	Nil	L	Z1
99	<i>Mangifera sp.</i>	6	6	200	2.4	70%	M	Dieback	Garden	Adj. building	L	ZZ4
100	<i>Cinnamomum camphora</i>	12	8	300	3.6	70%	S	Nil	Garden	Adj. building	M	Z10
101	<i>Pittosporum undulatum</i>	10	8	350	4.2	80%	M	Nil	Grass	Nil	M	A1
102	<i>Cinnamomum camphora</i>	8	7	300	3.6	80%	M	Nil	Garden	Nil	M	Z1
103	<i>Cedrus deodara</i>	18	14	700	8.4	80%	M	Co-dominant	Grass	Nil	H	A1
104	<i>Cinnamomum camphora</i>	8	5	250	3.0	80%	M	Nil	Garden	Adj. building	L	Z1
105	<i>Mangifera sp.</i>	5	5	200	2.4	80%	M	Nil	Grass	Nil	L	Z3
106	<i>Syagrus romanzoffiana</i>	12	4	300	3.6	90%	M	Nil	Grass	Nil	M	Z3
107	<i>Jacaranda mimosifolia</i>	14	14	700	8.4	80%	M	Nil	Grass	Nil	H	A1
108	<i>Cinnamomum camphora</i>	8	6	150	2.0	90%	S	Nil	Garden	Nil	L	ZZ1
109	<i>Grevillea robusta</i>	20	14	600	7.2	80%	M	Nil	Grass	Nil	H	A1
110	<i>Ficus elastica</i>	14	14	600	7.2	90%	M	Co-dominant	Garden	Nil	H	ZZ3
111	<i>Schinus terebinthifolia</i>	7	6	450	5.4	60%	M	Lopped, Epicormic	Grass	LV wires	M	ZZ5
112	<i>Melia azedarach</i>	10	9	400	4.8	80%	M	Leaning	Garden	Adj. structure	M	Z3
113	<i>Jacaranda mimosifolia</i>	8	6	250	3.0	70%	M	Co-dominant	Garden	Nil	L	Z1
114	<i>Jacaranda mimosifolia</i>	8	6	250	3.0	70%	M	Co-dominant	Garden	Nil	L	Z1
115	<i>Liquidambar styraciflua</i>	14	12	500	6.0	80%	M	Nil	Grass	Nil	M	A1
116	<i>Lagerstroemia indica</i>	6	5	100	2.0	70%	M	Epicormic growth	Grass	Nil	L	Z1
117	<i>Eucalyptus saligna</i>	24	20	700	8.4	80%	M	Nil	Grass	Nil	H	AA1
118	<i>Casuarina cunninghamiana</i>	16	10	500	6.0	80%	M	Included bark	Grass	Nil	M	A2
119	<i>Callistemon sp.</i>	6	3	150	2.0	60%	O	Borer Dieback	Grass	Nil	L	ZZ4
120	<i>Jacaranda mimosifolia</i>	10	10	450	5.4	80%	M	Nil	Garden	Nil	M	A1
121	<i>Lagerstroemia indica</i>	7	5	150	2.0	70%	M	Epicormic growth Lopped	Garden	Nil	L	ZZ5
122	<i>Schefflera actinophylla</i>	6	5	150	2.0	60%	M	Co-dominant	Garden	Nil	L	ZZ3
123	<i>Ficus elastica</i>	14	12	700	8.4	80%	M	Co-dominant	Garden	Nil	M	Z3
124	<i>Jacaranda mimosifolia</i>	12	8	450	5.4	70%	M	Nil	Grass	Nil	M	A1
125	<i>Cinnamomum camphora</i>	16	14	450	5.4	80%	M	Nil	Garden	Nil	M	Z10
126	<i>Melia azedarach</i>	12	9	400	4.8	60%	M	Heavily pruned	Garden	Nil	M	Z3
127	<i>Fraxinus sp.</i>	8	8	400	4.8	80%	M	Nil	Grass	Kerb	M	A1
128	<i>Jacaranda mimosifolia</i>	8	6	150	2.0	70%	S	Co-dominant	Garden	Adj. structure	L	Z1
129	<i>Cupressus sp.</i>	7	3	200	2.4	60%	M	Dieback	Grass	Nil	L	Z4
130	<i>Callistemon sp.</i>	8	8	350	4.2	80%	M	Nil	Grass	Nil	M	A1
131	<i>Magnolia sp.</i>	5	4	100	2.0	80%	M	Co-dominant	Grass	Nil	L	Z1



No.	Genus species	Height	Spread	DBH	TPZ	Foliage %	Age class	Defects/Comment	Location	Services	Significance	Tree AZ
132	<i>Jacaranda mimosifolia</i>	9	8	350	4.2	40%	O	Epicormic growth Lopped	Garden	Nil	M	ZZ5
133	<i>Eucalyptus botryoides</i>	24	20	800	9.6	80%	M	Bracket fungi on second upright bough Cavity	Gravel	Adj. building	H	A2
134	<i>Brachychiton acerifolius</i>	9	6	300	3.6	70%	M	Nil	Gravel	Adj. structure	M	Z10
135	<i>Jacaranda mimosifolia</i>	12	10	400	4.8	80%	M	Nil	Gravel	Adj. building	M	A1
136	<i>Liquidambar styraciflua</i>	18	16	600	7.2	90%	M	Co-dominant	Garden	Adj. building	M	A1
137	<i>Jacaranda mimosifolia</i>	9	7	250	3.0	70%	M	Co-dominant	Grass	Adj. building	L	Z10
138	<i>Callistemon sp.</i>	7	4	150	2.0	70%	M	Nil	Grass	Nil	L	Z1
139	<i>Liquidambar styraciflua</i>	14	9	350	4.2	80%	M	Nil	Garden	Nil	M	A1
140	<i>Liquidambar styraciflua</i>	14	9	350	4.2	80%	M	Nil	Garden	Nil	M	A1
141	<i>Pittosporum undulatum</i>	10	8	350	4.2	80%	M	Nil	Garden	Nil	M	A1
142	<i>Callistemon sp.</i>	6	4	150	2.0	80%	M	Nil	Grass	Nil	L	Z1
143	<i>Melaleuca quinquenervia</i>	10	9	450	5.4	70%	M	Nil	Garden	Nil	M	A1
144	<i>Cinnamomum camphora</i>	8	3	100	2.0	80%	S	Clump of sucker-growth	Garden	Nil	L	ZZ5
145	<i>Araucaria heterophylla</i>	16	9	600	7.2	90%	M	Nil	Grass	Nil	H	A1
146	<i>Lagerstroemia indica</i>	7	5	200	2.4	70%	M	Nil	Grass	Nil	L	Z1
147	<i>Metasequoia glyptostroboides</i>	10	7	350	4.2	70%	M	Nil	Grass	Nil	M	A1
148	<i>Mangifera sp.</i>	6	5	250	3.0	70%	M	Nil	Grass	Nil	L	Z3
149	<i>Melaleuca linariifolia</i>	8	6	250	3.0	70%	M	Nil	Grass	Nil	L	Z10
150	<i>Ficus benjamina</i>	12	10	400	4.8	80%	M	Co-dominant	Garden	Adj. structure	M	Z10
151	<i>Ligustrum sp.</i>	9	5	150	2.0	80%	S	Co-dominant	Garden	Nil	L	ZZ3
152	<i>Ligustrum sp.</i>	9	5	150	2.0	80%	S	Co-dominant	Garden	Nil	L	ZZ3
153	<i>Ligustrum sp.</i>	9	5	150	2.0	80%	S	Co-dominant	Garden	Nil	L	ZZ3
154	<i>Cinnamomum camphora</i>	12	9	350	4.2	80%	M	Nil	Garden	Nil	M	Z10
155	<i>Ligustrum sp.</i>	8	8	300	3.6	70%	M	Nil	Garden	Nil	M	ZZ3
156	<i>Morus sp.</i>	7	5	300	3.6	50%	O	Epicormic growth Lopped	Grass	Nil	L	ZZ5
157	<i>Photinia glabra</i>	6	4	150	2.0	80%	M	Epicormic growth Lopped	Garden	Adj. structure	L	Z9
158	<i>Cupressus sp.</i>	10	4	300	3.6	60%	M	Nil	Grass	Nil	L	Z10
159	<i>Cupressus sp.</i>	10	4	300	3.6	60%	M	Nil	Grass	Nil	L	Z10
160	<i>Olea sp.</i>	5	4	100	2.0	80%	M	Nil	Grass	Nil	L	ZZ3
161	<i>Jacaranda mimosifolia</i>	12	10	350	4.2	70%	M	Nil	Grass	Nil	M	A1
162	<i>Jacaranda mimosifolia</i>	12	10	400	4.8	70%	M	Nil	Grass	Nil	M	A1
163	<i>Cinnamomum camphora</i>	7	4	200	2.4	80%	S	Nil	Garden	Nil	L	Z1
164	<i>Callistemon sp.</i>	7	5	200	2.4	70%	M	Nil	Grass	Nil	L	Z1
165	<i>Callistemon sp.</i>	7	5	200	2.4	70%	M	Nil	Grass	Nil	L	Z1



No.	Genus species	Height	Spread	DBH	TPZ	Foliage %	Age class	Defects/Comment	Location	Services	Significance	Tree AZ
166	<i>Callistemon sp.</i>	7	5	200	2.4	70%	M	Nil	Grass	Nil	L	Z1
167	<i>Cupressus sp.</i>	6	5	300	3.6	80%	S	Nil	Grass	Nil	L	Z1
168	<i>Ligustrum sp.</i>	9	7	200	2.4	90%	S	Co-dominant	Grass	Nil	L	ZZ3
169	<i>Ligustrum sp.</i>	9	7	200	2.4	90%	S	Co-dominant	Grass	Nil	L	ZZ3
170	<i>Liquidambar styraciflua</i>	14	10	450	5.4	90%	M	Nil	Grass	Nil	M	A1
171	<i>Ficus elastica</i>	14	14	450	5.4	80%	M	Co-dominant	Garden	Nil	M	Z3
172	<i>Lagerstroemia indica</i>	5	5	100	2.0	80%	M	Epicormic growth Lopped	Grass	Nil	L	ZZ5
173	<i>Toona australis</i>	8	6	300	3.6	80%	M	Nil	Grass	Nil	M	A1
174	<i>Eriobotrya japonica</i>	6	4	100	2.0	60%	M	Dieback	Grass	Nil	L	ZZ3
175	<i>Callistemon sp.</i>	6	4	200	2.4	60%	M	Nil	Grass	Nil	L	Z1
176	<i>Eriobotrya japonica</i>	4	3	100	2.0	60%	S	Nil	Grass	Nil	L	ZZ3
177	<i>Callistemon sp.</i>	8	7	400	4.8	90%	M	Nil	Grass	Nil	M	A1
178	<i>Jacaranda mimosifolia</i>	5	4	100	2.0	80%	S	Nil	Grass	Nil	L	Z1
179	<i>Pittosporum undulatum</i>	8	6	250	3.0	80%	M	Nil	Grass	Nil	M	Z1
180	<i>Cupressus sp.</i>	8	6	200	2.4	80%	M	Co-dominant	Grass	Nil	M	Z9
181	<i>Prunus sp.</i>	5	6	250	3.0	70%	M	Nil	Grass	Nil	L	Z1
182	<i>Pyrus sp.</i>	12	9	350	4.2	90%	M	Nil	Garden	Nil	M	A1
183	<i>Pyrus sp.</i>	12	9	350	4.2	90%	M	Nil	Garden	Nil	M	A1
184	<i>Cedrus deodara</i>	22	18	700	8.4	80%	M	Nil	Grass	Adj. building	H	AA1
185	<i>Cinnamomum camphora</i>	18	14	600	7.2	80%	M	Nil	Grass	Nil	M	A1
186	<i>Cupressus sp.</i>	14	6	350	4.2	70%	M	Co-dominant	Garden	Adj. driveway	M	Z9
187	<i>Liquidambar styraciflua</i>	16	14	600	7.2	90%	M	Nil	Grass	Nil	H	A1
188	<i>Lagerstroemia indica</i>	8	6	200	2.4	80%	M	Nil	Grass	Nil	M	Z1
189	<i>Macadamia integrifolia</i>	8	5	250	3.0	80%	M	Nil	Garden	Nil	L	Z1
190	<i>Lagerstroemia indica</i>	6	5	100	2.0	80%	M	Nil	Grass	Nil	M	Z1
191	<i>Lagerstroemia indica</i>	6	5	100	2.0	80%	M	Nil	Grass	Nil	M	Z1
192	<i>Lagerstroemia indica</i>	6	5	100	2.0	80%	M	Nil	Grass	Nil	M	Z1
193	<i>Callistemon sp.</i>	6	5	150	2.0	70%	M	Nil	Grass	Nil	L	Z1
194	<i>Jacaranda mimosifolia</i>	14	12	500	6.0	80%	M	Epicormic growth	Grass	LV wires	M	A1
195	<i>Grevillea robusta</i>	6	3	100	2.0	70%	S	Nil	Grass	LV wires	L	Z1
196	<i>Pittosporum undulatum</i>	7	7	300	3.6	0%	O	Borer	Grass	LV wires	L	ZZ4
197	<i>Ligustrum sp.</i>	5	5	100	2.0	90%	S	Nil	Grass	Nil	L	ZZ3
198	<i>Callistemon sp.</i>	5	4	150	2.0	70%	O	Lopped	Grass	LV wires	L	Z9
199	<i>Araucaria colomularis</i>	16	6	600	7.2	80%	M	Nil	Grass	Nil	H	A1



No.	Genus species	Height	Spread	DBH	TPZ	Foliage %	Age class	Defects/Comment	Location	Services	Significance	Tree AZ
200	<i>Araucaria colomularis</i>	14	6	400	4.8	80%	M	Cambium damage	Grass	Nil	M	A1
201	<i>Banksia sp.</i>	5	4	100	2.0	70%	M	Nil	Grass	Nil	L	Z1
202	<i>Callistemon sp.</i>	5	4	150	2.0	80%	M	Nil	Grass	Nil	L	Z1
203	<i>Callistemon sp.</i>	5	4	150	2.0	80%	M	Nil	Grass	Nil	L	Z1
204	<i>Leptospermum petersonii</i>	5	4	100	2.0	80%	M	Nil	Grass	Nil	L	Z1
205	<i>Leptospermum petersonii</i>	5	4	100	2.0	80%	M	Nil	Grass	Nil	L	Z1
206	<i>Leptospermum petersonii</i>	5	4	100	2.0	80%	M	Nil	Grass	Nil	L	Z1
207	<i>Leptospermum petersonii</i>	5	4	100	2.0	80%	M	Nil	Grass	Nil	L	Z1
208	<i>Leptospermum petersonii</i>	5	4	100	2.0	80%	M	Nil	Grass	Nil	L	Z1
209	<i>Eucalyptus globulus</i>	12	7	300	3.6	80%	M	Nil	Grass	Nil	L	A1
210	<i>Callistemon sp.</i>	5	3	200	2.4	50%	M	Lopped	Grass	LV wires	L	ZZ4
211	<i>Ligustrum sp.</i>	5	4	100	2.0	80%	S	Nil	Grass	Adj. building	L	ZZ3
212	<i>Cupressus sp.</i>	12	6	450	5.4	80%	M	Co-dominant	Grass	Adj. building	M	Z9
213	<i>Cupressus sp.</i>	5	4	250	3.0	70%	M	Heavily pruned	Grass	Nil	L	Z9
214	<i>Grevillea robusta</i>	7	3	150	2.0	60%	S	Nil	Garden	Nil	L	Z1
215	<i>Callistemon sp.</i>	5	4	150	2.0	70%	M	Nil	Grass	LV wires	L	Z1
216	<i>Pittosporum undulatum</i>	6	5	150	2.0	70%	M	Epicormic growth Lopped	Garden	Nil	L	ZZ5
217	<i>Ligustrum sp.</i>	6	4	100	2.0	80%	S	Epicormic growth	Garden	Nil	L	ZZ5
218	<i>Lagerstroemia indica</i>	6	4	100	2.0	80%	S	Epicormic growth Lopped	Garden	Nil	L	ZZ5
219	<i>Callistemon sp.</i>	5	4	150	2.0	60%	M	Epicormic growth Lopped	Grass	LV wires	L	Z9
220	<i>Cinnamomum camphora</i>	14	12	500	6.0	80%	M	Co-dominant	Grass	Nil	M	A1
221	<i>Jacaranda mimosifolia</i>	10	9	350	4.2	80%	M	Nil	Grass	Nil	M	A1
222	<i>Callistemon sp.</i>	5	4	150	2.0	80%	M	Nil	Grass	Nil	L	Z1
223	<i>Ligustrum sp.</i>	8	6	200	2.4	80%	M	Nil	Grass	Nil	L	ZZ3
224	<i>Ligustrum sp.</i>	8	6	200	2.4	80%	M	Nil	Grass	Nil	L	ZZ3
225	<i>Ligustrum sp.</i>	8	6	200	2.4	80%	M	Nil	Grass	Nil	L	ZZ3
226	<i>Cupressus sp.</i>	9	5	300	3.6	80%	M	Nil	Garden	Adj. building	M	Z10
227	<i>Acer palmatum</i>	6	6	250	3.0	60%	O	Borer	Grass	Adj. building	L	Z1
228	<i>Pittosporum undulatum</i>	6	4	250	3.0	70%	S	Nil	Garden	Nil	L	Z1
229	<i>Ligustrum sp.</i>	5	4	150	2.0	80%	S	Nil	Garden	Nil	L	ZZ3
230	<i>Pittosporum undulatum</i>	5	5	250	3.0	60%	M	Borer	Garden	Nil	L	Z1
231	<i>Ligustrum sp.</i>	16	14	500	6.0	80%	M	Co-dominant	Garden	Nil	H	ZZ3
232	<i>Grevillea robusta</i>	12	9	300	3.6	80%	M	Nil	Garden	Nil	M	Z10
233	<i>Ligustrum sp.</i>	6	5	100	2.0	70%	S	Co-dominant	Garden	Nil	L	ZZ3



No.	Genus species	Height	Spread	DBH	TPZ	Foliage %	Age class	Defects/Comment	Location	Services	Significance	Tree AZ
234	<i>Bauhinia galpinii</i>	10	9	300	3.6	70%	M	Epicormic growth Lopped stump	Garden	Nil	M	ZZ5
235	<i>Lagerstroemia indica</i>	5	4	100	2.0	60%	S	Lopped	Garden	Nil	L	ZZ5
236	<i>Callistemon</i> sp.	6	5	200	2.4	70%	M	Nil	Grass	LV wires	L	Z1
237	<i>Melaleuca armillaris</i>	10	7	350	4.2	80%	M	Nil	Grass	Nil	M	A1
238	<i>Liquidambar styraciflua</i>	16	14	500	6.0	90%	M	Nil	Garden	Nil	H	A1
239	<i>Cinnamomum camphora</i>	10	9	400	4.8	80%	M	Nil	Grass	Nil	M	A1
240	<i>Pittosporum undulatum</i>	8	6	350	4.2	70%	M	Nil	Grass	Nil	M	A1
241	<i>Cinnamomum camphora</i>	16	12	400	4.8	70%	M	Co-dominant	Grass	Nil	M	A1
242	<i>Cinnamomum camphora</i>	10	7	250	3.0	80%	M	Nil	Grass	Nil	M	Z10
243	<i>Cedrus deodara</i>	9	5	200	2.4	80%	S	Co-dominant	Grass	Nil	M	A1
244	<i>Ligustrum</i> sp.	8	4	150	2.0	80%	S	Co-dominant	Garden	Nil	L	ZZ3
245	<i>Cinnamomum camphora</i>	12	9	250	3.0	80%	M	Co-dominant	Garden	Nil	M	Z9
246	<i>Cinnamomum camphora</i>	12	9	250	3.0	80%	M	Co-dominant	Garden	Nil	M	Z9
247	<i>Ligustrum</i> sp.	12	10	450	5.4	80%	M	Co-dominant	Garden	Nil	H	ZZ3
248	<i>Mangifera</i> sp.	5	5	250	3.0	50%	O	Dieback	Grass	Nil	L	ZZ4
249	<i>Syzygium</i> sp.	8	5	150	2.0	90%	S	Epicormic growth Lopped stump	Grass	Nil	L	ZZ5
250	<i>Morus</i> sp.	6	7	200	2.4	70%	M	Co-dominant	Grass	Nil	L	Z3
251	<i>Callistemon</i> sp.	5	4	200	2.4	70%	M	Nil	Grass	LV wires	L	Z1
252	<i>Callistemon</i> sp.	5	4	100	2.0	0%	O	Nil	Grass	Nil	L	ZZ4
253	<i>Melaleuca armillaris</i>	8	8	300	3.6	70%	M	Co-dominant	Garden	Adj. building	M	A1
254	<i>Cinnamomum camphora</i>	10	9	350	4.2	80%	M	Co-dominant	Garden	Adj. structure	M	Z10
255	<i>Archontophoenix alexandrae</i>	9	3	250	3.0	90%	M	Nil	Garden	Nil	L	Z10
256	<i>Ligustrum</i> sp.	8	6	250	3.0	80%	M	Nil	Grass	Nil	L	ZZ3
257	<i>Cinnamomum camphora</i>	14	16	600	7.2	80%	M	Nil	Garden	Nil	M	A1
258	<i>Chamaecyparis</i> sp.	8	6	250	3.0	80%	M	Nil	Grass	Nil	M	Z10
259	<i>Callistemon</i> sp.	4	2	200	2.4	20%	O	Bracket fungi Lopped	Grass	LV wires	L	ZZ5
260	<i>Ulmus parvifolia</i>	8	5	250	3.0	70%	S	Nil	Garden	Nil	L	Z10
261	<i>Cedrus deodara</i>	10	7	400	4.8	80%	M	Nil	Grass	Nil	M	A1
262	<i>Jacaranda mimosifolia</i>	12	9	450	5.4	70%	M	Nil	Grass	Nil	M	A1
263	<i>Ligustrum</i> sp.	9	5	200	2.4	70%	M	Nil	Garden	Nil	M	ZZ3
264	<i>Ligustrum</i> sp.	9	5	200	2.4	70%	M	Nil	Garden	Nil	M	ZZ3
265	<i>Lagerstroemia indica</i>	6	6	200	2.4	70%	M	Nil	Garden	Adj. building	L	Z10
266	<i>Cinnamomum camphora</i>	12	12	600	7.2	80%	M	Nil	Grass	Nil	M	A1
267	<i>Cinnamomum camphora</i>	7	5	150	2.0	90%	S	Nil	Garden	Adj. structure	L	Z1



No.	Genus species	Height	Spread	DBH	TPZ	Foliage %	Age class	Defects/Comment	Location	Services	Significance	Tree AZ
268	<i>Jacaranda mimosifolia</i>	10	9	350	4.2	70%	M	Nil	Garden	Nil	M	A1
269	<i>Callistemon sp.</i>	6	6	300	3.6	70%	M	Nil	Grass	Kerb	M	A1
270	<i>Olea sp.</i>	6	4	150	2.0	80%	M	Nil	Grass	Nil	L	ZZ3
271	<i>Cinnamomum camphora</i>	9	7	250	3.0	70%	M	Nil	Garden	Nil	M	Z10
272	<i>Ligustrum sp.</i>	7	5	200	2.4	80%	M	Nil	Garden	Adj. structure	L	ZZ3
273	<i>Cinnamomum camphora</i>	8	5	250	3.0	70%	M	Nil	Garden	Nil	L	Z10
274	<i>Jacaranda mimosifolia</i>	9	7	300	3.6	70%	M	Epicormic growth Lopped	Garden	LV wires	M	Z10
275	<i>Callistemon sp.</i>	5	5	200	2.4	80%	M	Nil	Garden	Nil	L	Z10
276	<i>Melia azedarach</i>	10	9	300	3.6	80%	M	Co-dominant	Garden	Nil	M	Z3
277	<i>Cinnamomum camphora</i>	8	6	200	2.4	80%	S	Nil	Garden	Nil	M	Z10
278	<i>Cinnamomum camphora</i>	8	6	200	2.4	80%	S	Nil	Garden	Nil	M	Z10
279	<i>Lophostemon confertus</i>	12	9	400	4.8	80%	M	Nil	Grass	Nil	M	A1
280	<i>Cupressus sp.</i>	10	5	350	4.2	70%	M	Nil	Grass	LV wires	M	Z10
281	<i>Cupressus sp.</i>	10	5	250	3.0	70%	M	Nil	Grass	Nil	M	Z10
282	<i>Cupressus sp.</i>	10	5	350	4.2	70%	M	Nil	Grass	LV wires	M	Z10
283	<i>Jacaranda mimosifolia</i>	9	9	350	4.2	70%	M	Nil	Grass	Nil	M	A1
284	<i>Callistemon sp.</i>	7	9	450	5.4	80%	M	Co-dominant	Grass	Nil	M	A1
285	<i>Callistemon sp.</i>	8	5	300	3.6	70%	M	Nil	Grass	Nil	L	Z10
286	<i>Cotoneaster sp.</i>	5	5	200	2.4	60%	O	Cavity Failures	Grass	Nil	L	ZZ3
287	<i>Callistemon sp.</i>	4	5	200	2.4	70%	M	Lopped	Grass	LV wires	L	Z9
288	<i>Callistemon sp.</i>	4	5	200	2.4	70%	M	Lopped	Grass	LV wires	L	Z9
289	<i>Ligustrum sp.</i>	7	5	100	2.0	80%	S	Co-dominant	Garden	Adj. structure	L	ZZ3
290	<i>Acer negundo</i>	12	12	400	4.8	80%	M	Nil	Grass	Nil	H	Z3
291	<i>Acer negundo</i>	12	12	500	6.0	80%	M	Nil	Grass	Nil	H	Z3
292	<i>Callistemon sp.</i>	7	6	400	4.8	80%	M	Lopped	Grass	LV wires	M	A2
293	<i>Callistemon sp.</i>	10	8	400	4.8	70%	M	Nil	Grass	Nil	M	A1
294	<i>Callistemon sp.</i>	10	8	400	4.8	70%	M	Nil	Grass	Nil	M	A1
295	<i>Schefflera sp.</i>	5	4	100	2.0	80%	M	Co-dominant Clumping	Grass	Adj. building	L	ZZ3
296	<i>Archontophoenix alexandrae</i>	10	3	250	3.0	90%	M	Nil	Garden	Adj. building	M	Z10
297	<i>Callistemon sp.</i>	9	8	400	4.8	80%	M	Nil	Grass	Nil	M	A1
298	<i>Callistemon sp.</i>	4	5	200	2.4	60%	M	Leaning	Grass	Nil	L	Z1
299	<i>Callistemon sp.</i>	4	5	200	2.4	60%	M	Leaning	Grass	Nil	L	Z1
300	<i>Eucalyptus saligna</i>	35	35	1400	16.8	90%	M	Nil	Grass	Adj. building	H	AA1
301	<i>Ligustrum sp.</i>	7	5	150	2.0	80%	M	Nil	Planter	Adj. structure	L	ZZ3



No.	Genus species	Height	Spread	DBH	TPZ	Foliage %	Age class	Defects/Comment	Location	Services	Significance	Tree AZ
302	<i>Jacaranda mimosifolia</i>	7	5	100	2.0	70%	S	Co-dominant	Grass	Nil	L	Z10
303	<i>Eucalyptus saligna</i>	14	9	300	3.6	70%	M	Nil	Grass	Nil	M	A1
304	<i>Jacaranda mimosifolia</i>	14	12	500	6.0	80%	M	Co-dominant	Grass	Nil	M	A1
305	<i>Eucalyptus saligna</i>	16	12	500	6.0	80%	M	Borer	Grass	Adj. driveway	H	A1
306	<i>Syzigium sp.</i>	7	5	250	3.0	60%	M	Epicormic growth Lopped	Grass	LV wires	L	Z5
307	<i>Syzigium sp.</i>	7	6	350	4.2	60%	M	Epicormic growth Lopped	Grass	LV wires	L	Z5
308	<i>Callistemon sp.</i>	6	6	350	4.2	70%	M	Lopped	Grass	LV wires	M	A2
309	<i>Olea sp.</i>	5	4	150	2.0	80%	M	Nil	Garden	LV wires	L	ZZ3
310	<i>Cinnamomum camphora</i>	7	5	100	2.0	80%	S	Co-dominant	Grass	Nil	L	Z10
311	<i>Jacaranda mimosifolia</i>	6	6	300	3.6	60%	M	Epicormic growth Lopped	Garden	LV wires	M	Z9
312	<i>Callistemon sp.</i>	5	4	250	3.0	70%	M	Lopped	Grass	LV wires	L	Z9
313	<i>Callistemon sp.</i>	4	4	150	2.0	70%	M	Lopped	Grass	LV wires	L	Z9
314	<i>Callistemon sp.</i>	7	7	350	4.2	60%	M	Nil	Grass	Nil	M	A1
315	<i>Callistemon sp.</i>	6	4	200	2.4	60%	M	Nil	Grass	Nil	L	Z1
316	<i>Olea sp.</i>	5	4	100	2.0	70%	S	Nil	Grass	Nil	L	ZZ3
317	<i>Ligustrum sp.</i>	7	4	100	2.0	70%	S	Nil	Garden	Adj. building	L	ZZ3
318	<i>Ligustrum sp.</i>	9	7	250	3.0	90%	M	Nil	Garden	Adj. structure	M	ZZ3
319	<i>Cedrus deodara</i>	12	10	500	6.0	80%	M	Nil	Grass	Nil	M	A1
320	<i>Eriobotrya japonica</i>	7	6	200	2.4	80%	M	Nil	Sealed surfaces	Adj. building	L	Z3
321	<i>Lophostemon confertus</i>	14	14	600	7.2	90%	M	Nil	Grass	Nil	H	A1
322	<i>Cedrus deodara</i>	10	10	500	6.0	80%	M	Nil	Grass	Adj. building	M	A1
323	<i>Photinia glabra</i>	6	6	250	3.0	70%	M	Co-dominant Dieback	Grass	Nil	L	Z1
324	<i>Photinia glabra</i>	6	6	250	3.0	70%	M	Co-dominant Dieback	Grass	Nil	L	Z1
325	<i>Callistemon sp.</i>	3	3	50	2.0	60%	S	Nil	Grass	Nil	L	Z1
326	<i>Ligustrum sp.</i>	5	4	100	2.0	70%	S	Nil	Garden	Nil	L	ZZ3
327	<i>Callistemon sp.</i>	4	3	50	2.0	70%	S	Nil	Grass	Nil	L	Z1
328	<i>Pinus radiata</i>	14	10	500	6.0	80%	M	Nil	Garden	Nil	M	Z10
329	<i>Cupressus sp.</i>	9	2	200	2.4	50%	O	Dieback	Garden	Nil	L	ZZ4
330	<i>Cedrus deodara</i>	16	14	600	7.2	80%	M	Nil	Grass	Adj. building	H	A1
331	<i>Jacaranda mimosifolia</i>	9	6	200	2.4	60%	S	Co-dominant Dieback	Garden	Nil	L	Z4
332	<i>Melaleuca quinquenervia</i>	12	12	600	7.2	80%	M	Co-dominant	Grass	Kerb	M	A1
333	<i>Melaleuca quinquenervia</i>	12	9	600	7.2	70%	M	Nil	Grass	Kerb	M	A1
334	<i>Eucalyptus sideroxylon</i>	16	9	400	4.8	50%	M	Nil	Garden	Adj. structure	M	Z4



No.	Genus species	Height	Spread	DBH	TPZ	Foliage %	Age class	Defects/Comment	Location	Services	Significance	Tree AZ
335	<i>Melaleuca quinquenervia</i>	14	12	600	7.2	80%	M	Nil	Grass	Kerb	M	A1
336	<i>Araucaria heterophylla</i>	14	9	500	6.0	90%	M	Co-dominant	Grass	Nil	M	A1
337	<i>Melaleuca quinquenervia</i>	14	12	700	8.4	80%	M	Nil	Grass	Kerb	H	A1
338	<i>Jacaranda mimosifolia</i>	10	10	400	4.8	80%	M	Co-dominant	Grass	Nil	M	A1
339	<i>Castanospermum australe</i>	10	9	450	5.4	80%	M	Nil	Garden	Nil	M	A1
340	<i>Cinnamomum camphora</i>	16	14	800	9.6	80%	M	Nil	Garden	Nil	H	A1
341	<i>Mangifera sp.</i>	5	5	150	2.0	80%	M	Nil	Grass	Nil	L	Z1
342	<i>Ficus benjamina</i>	8	9	300	3.6	90%	M	Nil	Grass	Nil	M	Z3
343	<i>Ficus microcarpa</i> var. <i>hillii</i>	9	8	400	4.8	70%	M	Heavily pruned from shed	Garden	Adj. structure	M	Z2
344	<i>Lagerstroemia indica</i>	8	7	150	2.0	70%	M	Co-dominant	Grass	Nil	L	Z10
345	<i>Lagerstroemia indica</i>	8	7	150	2.0	70%	M	Co-dominant	Grass	Nil	L	Z10
346	<i>Melaleuca quinquenervia</i>	16	12	700	8.4	80%	M	Nil	Grass	Kerb	H	A1
347	<i>Phoenix canariensis</i>	7	4	500	6.0	80%	M	Nil	Garden	Adj. building	M	A1
348	<i>Melaleuca quinquenervia</i>	16	14	1000	12.0	90%	M	Nil	Grass	Kerb	H	AA1
349	<i>Melaleuca quinquenervia</i>	7	8	400	4.8	70%	M	Epicormic growth Lopped	Grass	LV wires	M	Z9
350	<i>Gordonia axillaris</i>	7	6	300	3.6	70%	M	Nil	Garden	Nil	M	A1
351	<i>Gordonia axillaris</i>	7	6	300	3.6	70%	M	Nil	Garden	Nil	M	A1
352	<i>Ficus hillii</i>	16	14	500	6.0	80%	M	Nil	Garden	Adj. building	M	A1
353	<i>Pittosporum undulatum</i>	9	5	250	3.0	70%	M	Sender habit	Garden	Adj. building	M	Z10
354	<i>Bauhinia sp.</i>	10	8	350	4.2	70%	M	Nil	Garden	Nil	M	A1
355	<i>Ligustrum sp.</i>	12	10	400	4.8	90%	M	Nil	Garden	Nil	M	ZZ3
356	<i>Melaleuca quinquenervia</i>	8	10	800	9.6	60%	M	Epicormic growth Lopped	Grass	LV wires	M	Z9
357	<i>Cedrus deodara</i>	14	12	600	7.2	70%	M	Nil	Garden	Nil	M	A1
358	<i>Melia azedarach</i>	14	14	600	7.2	80%	M	Nil	Garden	Adj. building	M	Z3
359	<i>Schefflera actinophylla</i>	8	7	500	6.0	70%	M	Nil	Garden	Adj. building	M	Z3
360	<i>Cinnamomum camphora</i>	12	10	450	5.4	70%	M	Cavity	Gravel	Adj. structure	M	ZZ9
361	<i>Liquidambar styraciflua</i>	16	12	700	8.4	70%	M	Borer Cavity Hollow base Decay	Grass	Nil	H	ZZ9
362	<i>Jacaranda mimosifolia</i>	10	8	300	3.6	70%	M	Poor form	Gravel	Nil	M	Z9
363	<i>Jacaranda mimosifolia</i>	14	14	500	6.0	80%	M	Co-dominant	Gravel	Nil	M	A1
364	<i>Jacaranda mimosifolia</i>	14	12	600	7.2	70%	M	Nil	Garden	Nil	M	A1
365	<i>Lagerstroemia indica</i>	8	7	250	3.0	80%	M	Co-dominant	Garden	Adj. structure	L	Z10
366	<i>Quercus robur</i>	14	14	600	7.2	80%	M	Nil	Garden	Nil	H	A1
367	<i>Grevillea robusta</i>	20	14	700	8.4	50%	O	Dieback Failures	Garden	Nil	H	ZZ4
368	<i>Lagerstroemia indica</i>	8	7	250	3.0	60%	M	Dieback	Garden	Nil	L	Z4



No.	Genus species	Height	Spread	DBH	TPZ	Foliage %	Age class	Defects/Comment	Location	Services	Significance	Tree AZ
369	<i>Ligustrum sp.</i>	12	8	300	3.6	80%	M	Nil	Garden	Nil	M	ZZ3
370	<i>Ligustrum sp.</i>	12	8	300	3.6	80%	M	Nil	Garden	Nil	M	ZZ3
371	<i>Cupressus sp.</i>	7	2	250	3.0	80%	M	Nil	Grass	Nil	L	Z10
372	<i>Melaleuca armillaris</i>	12	9	400	4.8	80%	M	Nil	Grass	LV wires	M	A1
373	<i>Callistemon sp.</i>	5	3	250	3.0	50%	M	Epicormic growth Lopped	Grass	LV wires	L	ZZ5
374	<i>Callistemon sp.</i>	5	3	250	3.0	50%	M	Epicormic growth Lopped	Grass	LV wires	L	ZZ5
375	<i>Callistemon sp.</i>	5	3	250	3.0	50%	M	Epicormic growth Lopped	Grass	LV wires	L	ZZ5
376	<i>Callistemon sp.</i>	5	3	250	3.0	50%	M	Epicormic growth Lopped	Grass	LV wires	L	ZZ5
377	<i>Callistemon sp.</i>	5	3	250	3.0	50%	M	Epicormic growth Lopped	Grass	LV wires	L	ZZ5
378	<i>Corymbia tessellaris</i>	14	10	500	6.0	90%	M	Nil	Grass	Nil	M	A1
379	<i>Jacaranda mimosifolia</i>	9	6	150	2.0	60%	S	Epicormic growth Lopped	Garden	Nil	L	ZZ9
380	<i>Photinia glabra</i>	8	8	300	3.6	90%	M	Nil	Garden	Nil	M	A1
381	<i>Cupressus sp.</i>	9	5	250	3.0	80%	M	Nil	Garden	Nil	L	Z10
382	<i>Camellia sp.</i>	5	5	150	2.0	90%	M	Nil	Garden	Nil	L	Z1
383	<i>Callistemon sp.</i>	8	7	250	3.0	60%	M	Nil	Grass	Kerb	M	Z10
384	<i>Callistemon sp.</i>	8	7	250	3.0	60%	M	Nil	Grass	Kerb	M	Z10
385	<i>Callistemon sp.</i>	8	7	250	3.0	60%	M	Nil	Grass	Kerb	M	Z10
386	<i>Callistemon sp.</i>	8	7	250	3.0	60%	M	Nil	Grass	Kerb	M	Z10
387	<i>Callistemon sp.</i>	8	7	250	3.0	60%	M	Nil	Grass	Kerb	M	Z10
388	<i>Callistemon sp.</i>	8	7	250	3.0	60%	M	Nil	Grass	Kerb	M	Z10
389	<i>Callistemon sp.</i>	8	7	250	3.0	60%	M	Nil	Grass	Kerb	M	Z10
390	<i>Callistemon sp.</i>	8	7	250	3.0	60%	M	Nil	Grass	Kerb	M	Z10
391	<i>Callistemon sp.</i>	8	7	250	3.0	60%	M	Nil	Grass	Kerb	M	Z10
392	<i>Cedrus deodara</i>	16	14	700	8.4	80%	M	Nil	Grass	Nil	H	A1
393	<i>Mangnifera sp.</i>	5	6	200	2.4	80%	M	Nil	Dripline disturbed	Nil	L	Z6
394	<i>Pittosporum undulatum</i>	8	6	300	3.6	70%	M	Nil	Dripline disturbed	Nil	M	Z6
395	<i>Araucaria heterophylla</i>	18	9	600	7.2	90%	M	Nil	Garden	Nil	M	A1
396	<i>Melia azedarach</i>	10	12	350	4.2	80%	M	Nil	Grass	Adj. structure	M	Z3
397	<i>Ligustrum sp.</i>	10	8	350	4.2	60%	O	Dieback	Grass	Adj. structure	M	ZZ3
398	<i>Ligustrum sp.</i>	5	4	100	2.0	70%	S	Nil	Grass	Nil	L	ZZ3
399	<i>Eucalyptus saligna</i>	12	7	250	3.0	80%	S	Nil	Grass	Nil	M	A1
400	<i>Melia azedarach</i>	10	10	450	5.4	80%	M	Nil	Grass	Nil	M	Z3
401	<i>Melaleuca armillaris</i>	6	4	100	2.0	70%	M	Nil	Grass	Nil	L	Z1



No.	Genus species	Height	Spread	DBH	TPZ	Foliage %	Age class	Defects/Comment	Location	Services	Significance	Tree AZ
402	<i>Cupressus sp.</i>	9	4	250	3.0	0%	O	Dieback	Grass	Nil	M	ZZ4
403	<i>Cupressus sp.</i>	9	4	250	3.0	0%	O	Dieback	Grass	Nil	M	ZZ4
404	<i>Cinnamomum camphora</i>	12	9	400	4.8	80%	M	Nil	Garden	Adj. building	M	Z2
405	<i>Eucalyptus saligna</i>	20	14	700	8.4	80%	M	Nil	Garden	Nil	H	AA1
406	<i>Syagrus romanzofianum</i>	9	3	300	3.6	80%	M	Nil	Garden	Nil	L	Z3
407	<i>Archontophoenix alexandrae</i>	8	3	200	2.4	80%	M	Nil	Garden	Adj. building	L	Z10
408	<i>Ligustrum sp.</i>	7	7	200	2.4	70%	M	Co-dominant	Garden	Adj. building	L	ZZ3
409	<i>Ligustrum sp.</i>	7	7	200	2.4	70%	M	Co-dominant	Garden	Adj. building	L	ZZ3
410	<i>Araucaria heterophylla</i>	16	12	600	7.2	80%	M	Nil	Grass	Nil	H	A1
411	<i>Syagrus romanzofianum</i>	10	4	300	3.6	80%	M	Nil	Garden	Adj. building	L	Z3
412	<i>Pittosporum undulatum</i>	5	5	150	2.0	80%	S	Nil	Garden	Nil	L	Z1
413	<i>Eucalyptus botryoides</i>	12	10	450	5.4	80%	M	Included bark	Garden	Nil	M	A2
414	<i>Schefflera actinophylla</i>	8	5	150	2.0	70%	M	Nil	Garden	Nil	L	ZZ3
415	<i>Syagrus romanzofianum</i>	9	3	300	3.6	80%	M	Nil	Garden	Nil	L	Z3
416	<i>Syagrus romanzofianum</i>	8	3	250	3.0	80%	M	Nil	Garden	Nil	L	Z3
417	<i>Syagrus romanzofianum</i>	9	3	300	3.6	80%	M	Nil	Garden	Nil	L	Z3
418	<i>Schefflera actinophylla</i>	9	3	300	3.6	80%	M	Nil	Garden	Adj. building	L	Z3
419	<i>Callistemon sp.</i>	5	4	100	2.0	90%	M	Nil	Garden	Adj. building	L	Z1
420	<i>Melaleuca armillaris</i>	5	4	100	2.0	80%	M	Nil	Garden	Adj. building	L	Z1
421	<i>Cupressus sp.</i>	5	2	250	3.0	10%	O	Dieback Lopped	Garden	Nil	L	ZZ4
422	<i>Cupressus sp.</i>	5	2	250	3.0	10%	O	Dieback Lopped	Garden	Nil	L	ZZ4
423	<i>Cupressus sp.</i>	5	2	250	3.0	10%	O	Dieback Lopped	Garden	Nil	L	ZZ4
424	<i>Cupressus sp.</i>	5	2	250	3.0	10%	O	Dieback Lopped	Garden	Nil	L	ZZ4
425	<i>Cinnamomum camphora</i>	6	5	100	2.0	80%	S	Epicormic growth	Garden	Nil	L	Z5
426	<i>Cedrus deodara</i>	12	6	300	3.6	70%	M	Nil	Grass	Nil	M	A1
427	<i>Pinus radiata</i>	12	10	600	7.2	0%	O	Dieback	Grass	Nil	M	ZZ4
428	<i>Cupressus sp.</i>	9	7	200	2.4	50%	O	Co-dominant Failures	Grass	Adj. structure	L	ZZ4
429	<i>Morus sp.</i>	9	9	300	3.6	80%	M	Nil	Grass	Adj. building	M	Z3
430	<i>Melaleuca linariifolia</i>	7	5	300	3.6	80%	M	Nil	Garden	Nil	M	A1
431	<i>Melaleuca linariifolia</i>	7	5	300	3.6	80%	M	Nil	Garden	Nil	M	A1
432	<i>Pinus patula</i>	14	12	500	6.0	80%	M	Nil	Garden	Nil	M	A1
433	<i>Jacaranda mimosifolia</i>	14	12	500	6.0	80%	M	Co-dominant	Garden	Nil	M	A1
434	<i>Melaleuca linariifolia</i>	5	2	100	2.0	80%	S	Nil	Grass	Nil	L	Z1
435	<i>Melaleuca linariifolia</i>	5	2	100	2.0	80%	S	Nil	Grass	Nil	L	Z1



No.	Genus species	Height	Spread	DBH	TPZ	Foliage %	Age class	Defects/Comment	Location	Services	Significance	Tree AZ
436	<i>Callistemon sp.</i>	7	6	250	3.0	80%	M	Nil	Garden	Nil	M	A1
437	<i>Lagerstroemia indica</i>	8	7	200	2.4	80%	M	Nil	Garden	Nil	M	A1
438	<i>Magnolia x soulangeana</i>	6	4	100	2.0	80%	M	Nil	Garden	Nil	L	Z1
439	<i>Callistemon sp.</i>	6	5	200	2.4	80%	M	Nil	Garden	Nil	L	Z1
440	<i>Albizia sp.</i>	6	6	250	3.0	70%	M	Borer Failures Lopped	Garden	Adj. structure	L	Z4
441	<i>Callistemon sp.</i>	6	6	250	3.0	80%	M	Nil	Garden	Nil	M	A1
442	<i>Stenocarpus sinuatus</i>	9	6	300	3.6	90%	M	Co-dominant	Garden	Nil	M	A1
443	<i>Leptospermum petersonii</i>	5	6	200	2.4	70%	O	Co-dominant Failures	Garden	Nil	L	Z1
444	<i>Syagrus romanzofianum</i>	8	3	300	3.6	80%	M	Nil	Garden	Nil	L	Z3
445	<i>Jacaranda mimosifolia</i>	10	9	450	5.4	70%	M	Heavily pruned	Garden	Nil	M	Z9
446	<i>Cinnamomum camphora</i>	16	16	700	8.4	80%	M	Nil	Garden	Adj. structure	H	A1
447	<i>Jacaranda mimosifolia</i>	9	9	300	3.6	70%	M	Nil	Garden	Nil	M	Z10
448	<i>Jacaranda mimosifolia</i>	9	9	300	3.6	70%	M	Supressed canopy	Garden	Nil	M	Z10
449	<i>Syagrus romanzofianum</i>	9	3	250	3.0	80%	M	Nil	Grass	Nil	L	Z3
450	<i>Callistemon sp.</i>	8	6	250	3.0	60%	O	Dieback	Grass	Nil	M	ZZ4
451	<i>Callistemon sp.</i>	8	7	300	3.6	70%	M	Nil	Grass	Nil	M	A1
452	<i>Callistemon sp.</i>	8	7	300	3.6	70%	M	Nil	Grass	Nil	M	A1
453	<i>Callistemon sp.</i>	8	7	300	3.6	70%	M	Nil	Grass	Nil	M	A1
454	<i>Callistemon sp.</i>	8	7	300	3.6	70%	M	Nil	Grass	Nil	M	A1
455	<i>Cedrus deodara</i>	14	12	500	6.0	80%	M	Nil	Grass	Nil	H	A1
456	<i>Cinnamomum camphora</i>	9	9	300	3.6	80%	M	Nil	Grass	Adj. structure	M	Z10
457	<i>Melia azedarach</i>	7	7	250	3.0	80%	M	Nil	Grass	Nil	M	Z3
458	<i>Eucalyptus saligna</i>	16	14	600	7.2	80%	M	Nil	Grass	Nil	H	A1
459	<i>Jacaranda mimosifolia</i>	14	14	600	7.2	80%	M	Co-dominant	Grass	Nil	M	A1
460	<i>Jacaranda mimosifolia</i>	14	10	400	4.8	80%	M	Nil	Grass	Nil	M	A1
461	<i>Angophora costata</i>	12	9	350	4.2	70%	M	Nil	Garden	Nil	M	A1
462	<i>Ulmus parvifolia</i>	12	12	400	4.8	70%	M	Co-dominant	Garden	Nil	M	A1
463	<i>Jacaranda mimosifolia</i>	12	12	450	5.4	80%	M	Nil	Dripline disturbed	Nil	M	A1
464	<i>Cinnamomum camphora</i>	18	18	900	10.8	70%	M	Significant dieback	Garden	Nil	H	Z4
465	<i>Cupressus sp.</i>	9	6	250	3.0	60%	O	Dieback Failures	Garden	Adj. structure	M	Z4
466	<i>Cupressus sp.</i>	9	6	250	3.0	60%	O	Dieback Failures	Garden	Adj. structure	M	Z4
467	<i>Cupressus sp.</i>	9	6	250	3.0	60%	O	Dieback Failures	Garden	Adj. structure	M	Z4
468	<i>Jacaranda mimosifolia</i>	8	8	350	4.2	80%	M	Nil	Grass	Nil	M	Z12



No.	Genus species	Height	Spread	DBH	TPZ	Foliage %	Age class	Defects/Comment	Location	Services	Significance	Tree AZ
469	<i>Syagrus romanzoffiana</i>	9	3	300	3.6	70%	M	Nil	Grass	Adj. building	L	Z3
470	<i>Jacaranda mimosifolia</i>	10	9	400	4.8	80%	M	Nil	Grass	Adj. building	M	A1
471	<i>Pinus radiata</i>	14	9	600	7.2	70%	M	Heavily pruned near wires	Grass	LV wires	M	Z10
472	<i>Jacaranda mimosifolia</i>	10	10	400	4.8	80%	M	Co-dominant	Grass	Nil	M	A1
473	<i>Jacaranda mimosifolia</i>	10	10	400	4.8	80%	M	Co-dominant	Grass	Nil	M	A1
474	<i>Jacaranda mimosifolia</i>	7	6	300	3.6	70%	M	Nil	Grass	Nil	L	Z1
475	<i>Araucaria heterophylla</i>	18	9	600	7.2	90%	M	Nil	Garden	Nil	H	A1
476	<i>Eucalyptus piperita</i>	18	18	600	7.2	50%	M	Acute decline	Grass	Nil	H	Z4
477	<i>Cupressus sp.</i>	6	2	150	2.0	90%	S	Nil	Grass	Nil	L	Z1
478	<i>Cinnamomum camphora</i>	16	16	700	8.4	80%	M	Nil	Grass	Nil	H	A1
479	<i>Eucalyptus tessellates</i>	18	16	1100	13.2	90%	M	Nil	Grass	Adj. driveway	H	AA1
480	<i>Cedrus deodara</i>	14	10	600	7.2	90%	M	Nil	Grass	Nil	H	A1
481	<i>Chamaecyparis sp.</i>	8	5	300	3.6	80%	M	Nil	Garden	Adj. building	M	Z1
482	<i>Jacaranda mimosifolia</i>	14	16	700	8.4	90%	M	Nil	Grass	Nil	H	A1
483	<i>Callistemon sp.</i>	6	4	250	3.0	70%	M	Nil	Grass	Nil	L	Z1
484	<i>Castanospermum australe</i>	4	4	300	3.6	50%	M	Epicormic growth Lopped	Grass	LV wires	L	ZZ9
485	<i>Liquidambar styraciflua</i>	18	14	800	9.6	90%	M	Nil	Grass	Nil	H	A1
486	<i>Lagerstroemia indica</i>	6	3	100	2.0	60%	M	Epicormic growth Lopped	Grass	Nil	L	ZZ9
487	<i>Lagerstroemia indica</i>	6	3	100	2.0	60%	M	Epicormic growth Lopped	Grass	Nil	L	ZZ9
488	<i>Plumeria sp.</i>	5	6	250	3.0	80%	M	Nil	Garden	Adj. building	L	Z1
489	<i>Liquidambar styraciflua</i>	18	14	700	8.4	70%	M	Failure of major bough Included barking	Grass	Nil	H	Z9
490	<i>Jacaranda mimosifolia</i>	8	7	300	3.6	60%	M	Cambium damage	Grass	Nil	L	Z1
491	<i>Jacaranda mimosifolia</i>	6	5	250	3.0	70%	S	Nil	Grass	Nil	L	Z1
492	<i>Agonis flexuosa</i>	7	6	350	4.2	70%	M	Co-dominant Failures	Grass	Nil	M	Z1
493	<i>Lagerstroemia indica</i>	6	5	150	2.0	70%	M	Epicormic growth	Grass	Nil	L	Z9
494	<i>Lagerstroemia indica</i>	6	5	150	2.0	70%	M	Epicormic growth	Grass	Nil	L	Z9
495	<i>Syagrus romanzoffiana</i>	9	3	250	3.0	80%	M	Nil	Grass	Nil	L	Z3
496	<i>Archontophoenix alexandrae</i>	8	3	150	2.0	80%	M	Thirteen similar palms clumped	Garden	Nil	L	Z1
497	<i>Jacaranda mimosifolia</i>	16	14	600	7.2	80%	M	Nil	Grass	Nil	H	A1
498	<i>Cinnamomum camphora</i>	14	10	400	4.8	80%	M	Nil	Grass	Nil	H	A1
499	<i>Castanospermum australe</i>	7	6	300	3.6	60%	M	Dieback	Grass	Nil	M	Z4
500	<i>Prunus sp.</i>	4	3	200	2.4	50%	O	Dieback Epicormic growth Lopped	Grass	Nil	L	ZZ4
501	<i>Jacaranda mimosifolia</i>	8	7	300	3.6	70%	M	Nil	Grass	Nil	M	Z12
502	<i>Jacaranda mimosifolia</i>	9	9	450	5.4	80%	M	Nil	Grass	Nil	M	A1



No.	Genus species	Height	Spread	DBH	TPZ	Foliage %	Age class	Defects/Comment	Location	Services	Significance	Tree AZ
503	<i>Stenocarpus sinuatus</i>	10	7	400	4.8	80%	M	Co-dominant	Grass	Nil	M	A1
504	<i>Lagerstroemia indica</i>	6	6	100	2.0	70%	M	Co-dominant	Grass	Nil	L	Z1
505	<i>Ligustrum sp.</i>	6	5	100	2.0	80%	S	Nil	Garden	Nil	L	ZZ3
506	<i>Syzygium paniculata</i>	16	14	700	8.4	90%	M	Nil	Garden	Nil	H	AA1
507	<i>Lagerstroemia indica</i>	7	6	150	2.0	80%	M	Nil	Grass	Nil	L	Z1
508	<i>Banksia integrifolia</i>	6	4	250	3.0	80%	M	Nil	Garden	Nil	L	Z1
509	<i>Banksia integrifolia</i>	5	3	100	2.0	80%	S	Nil	Garden	Nil	L	Z1
510	<i>Cupressus sp.</i>	9	5	300	3.6	90%	M	Nil	Grass	Nil	M	Z12
511	<i>Ligustrum sp.</i>	10	8	300	3.6	70%	M	Failures	Garden	Nil	M	ZZ3
512	<i>Melaleuca armillaris</i>	8	8	350	4.2	80%	M	Nil	Grass	Nil	M	A1
513	<i>Ficus benjamina</i>	8	7	250	3.0	80%	M	Co-dominant	Garden	Nil	M	Z3
514	<i>Cinnamomum camphora</i>	10	6	350	4.2	70%	M	Nil	Garden	Nil	M	Z12
515	<i>Eucalyptus sp.</i>	9	7	400	4.8	70%	M	Root heave on south side	Grass	Nil	M	ZZ5
516	<i>Cinnamomum camphora</i>	10	7	300	3.6	70%	M	Co-dominant	Garden	Nil	M	Z12
517	<i>Jacaranda mimosifolia</i>	7	4	150	2.0	70%	S	Nil	Garden	Nil	L	Z1
518	<i>Livistona australis</i>	12	4	300	3.6	100%	M	Nil	Garden	Nil	M	A1
519	<i>Cupressus sp.</i>	8	6	300	3.6	80%	M	Nil	Garden	Nil	M	Z12



Explanatory Notes

- **Measurements/estimates:** All dimensions are estimates unless otherwise indicated. Measurements taken with a tape or clinometer are indicated with a '*'. Less reliable estimated dimensions are indicated with a '?'.
 - **Species:** The species identification is based on visual observations and the botanical name. In some instances, it may be difficult to quickly and accurately identify a particular tree without further detailed investigations. Where there is some doubt of the precise species of tree, it is indicated with a '?' after the name in order to avoid delay in the production of the report. The botanical name is followed by the abbreviation sp if only the genus is known. The species listed for groups and hedges represent the main component and there may be other minor species not listed.
 - **Tree number:** relates to the reference number used on site diagram/report.
 - **Height:** Height is estimated to the nearest metre.
 - **Spread:** The average crown spread is visually estimated to the nearest metre from the outermost tips of the live lateral branches.
 - **DBH:** These figures relate to 1.4m above ground level and are recorded in millimetres. If appropriate, diameter is measured with a diameter tape. 'M' indicates trees or shrubs with multiple stems.
 - **Foliage Cover:** Percent of estimated live foliage cover for particular species range.
 - **Age class:**

Y	Young = recently planted
S	Semi-mature (<20% of life expectancy)
M	Mature (20-80% of life expectancy)
O	Over-mature (>80% of life expectancy)
- **TPZ:** The Tree Protection Zone (TPZ) is the radial offset distance of twelve times the trunk diameter in meters.
- **Tree AZ:** See reference for Tree AZ categories in Appendix 3.
- **Significance:** A tree's significance/value in the landscape takes into account its prominence from a wide range of perspectives. This includes, but is not limited to neighbour hood perspective, local perspective and site perspective. The significance of the subject trees has been categorized into three groups, such as: High, Moderate or Low significance.



APPENDIX 3

TreeAZ Categories (Version 9.02 A+NZ)

Z 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 recognised court or tribunal would be likely to authorise removal, i.e. dominance, debris, interference, etc
Z8	Excessive, severe and intolerable damage to property to the extent that a locally recognised court or tribunal would be likely to authorise 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 categorisation 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.

A 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)

NOTE: Category A1 trees that are already large and exceptional, or have the potential to become so with minimal maintenance, can be designated as AA at the discretion of the assessor. Although all A and AA trees are sufficiently important to be material constraints, AA trees are at the top of the categorisation hierarchy and should be given the most weight in any selection process.

TreeAZ is designed by Barrell Tree Consultancy (www.treeaz.com/tree_az/)



APPENDIX 4

Tree protection fencing and signs - Illustrative specification

Protective fencing: Protective 1.8m high fencing should be installed at the location illustrated on the Tree Management Plan before any site works start. All uprights should be fixed in position for the duration of the development activity. The fixings must be able to withstand the pressures of everyday site work.

Inside the protective fencing, the following rules must be strictly observed:

- No vehicular access
- No storage of excavated debris, building materials or fuels
- No excessive cultivation for landscape planting
- No fires
- No mixing of cement
- No service installation or excavation

Once erected, protective fencing must not be removed or altered without consulting first with the project Arborist.

Shade cloth or similar should be attached to reduce the transport of dust, other particulate matter and liquids into the protected area and signage must be attached to outside of fencing.

Signage: All signs are to provide clear and readily accessible information to indicate that a TPZ has been established. Signage identifying the TPZ must be attached to outside of fencing and be visible from within the development site.



Signage example:



Legend

1. Chain wire mesh panels with shade cloth (if required) attached, held in place with concrete feet.
2. Alternative plywood or wooden paling fence panels. This fencing material also prevents building materials or soil entering the TPZ.
3. Mulch installation across surface of TPZ (at the discretion of the project arborist). No excavation, construction activity, grade changes, surface treatment or storage of materials of any kind is permitted within the TPZ.
4. Bracing is permissible within the TPZ. Installation of supports should avoid damaging roots.

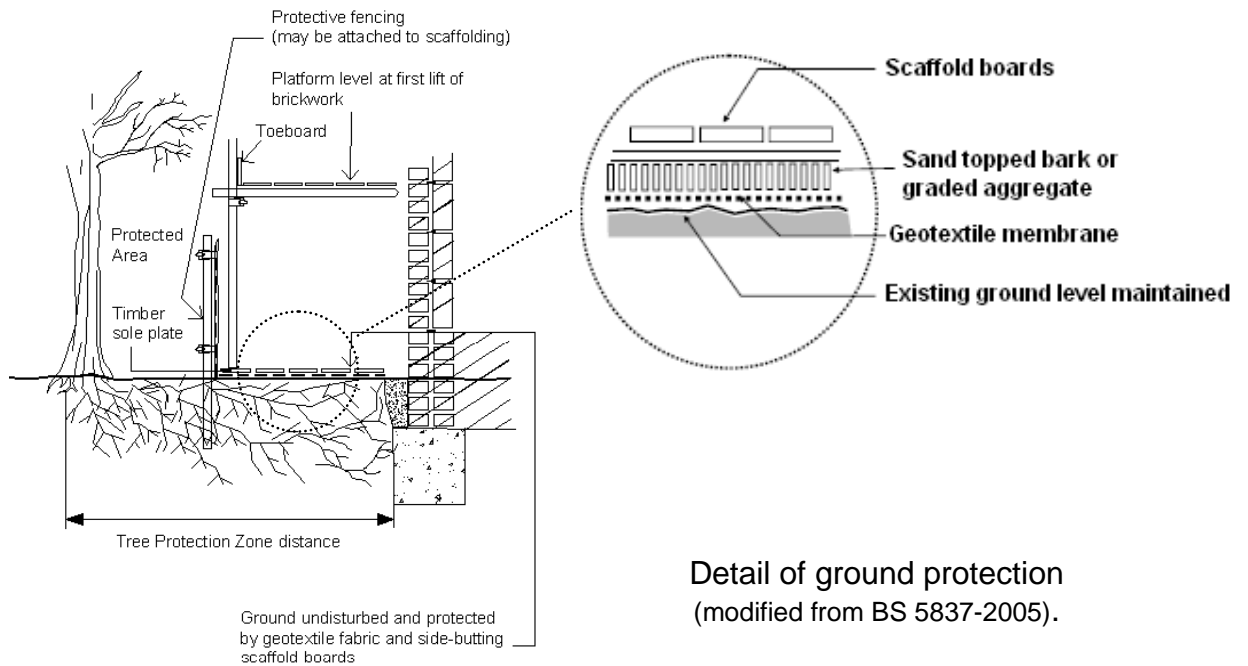
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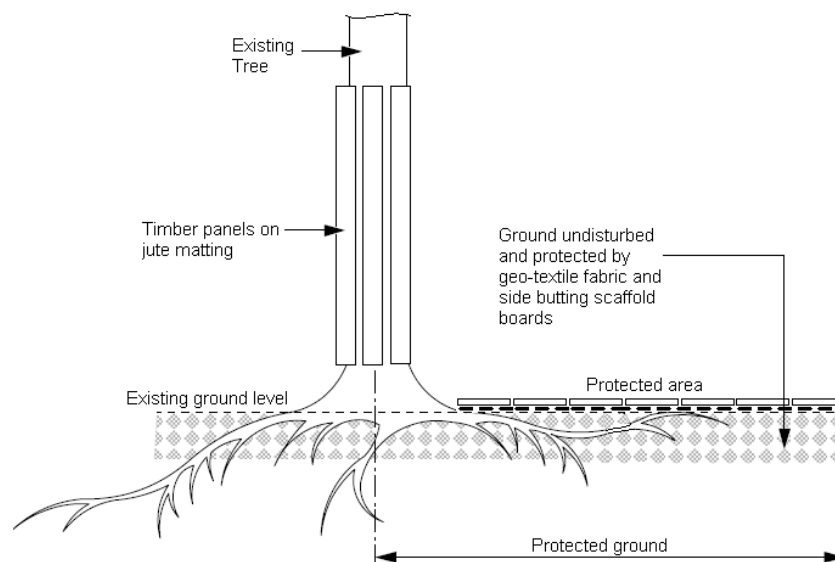
APPENDIX 5

Root zone and trunk protection - Illustrative specification

Root zone protection: Where necessary, access through the TPZ can be achieved by laying aggregate and timber boards (or similar) over the root zone to protect roots. The ground beneath the boarding should be left undisturbed and should be protected with a porous geo-textile fabric covered with sand or mulch.



Trunk protection: Where fencing cannot be installed, the vertical trunk of exposed trees shall be protected by the placement of 3.6m lengths of 50 x 100mm hardwood timbers, spaced vertically, at 150mm centres and secured by 2mm wire at 300mm wide spacing over suitable protective padding material e.g. Jute Matting. The trunk protection shall be maintained intact until the completion of all work on site.



Detail of trunk protection.



APPENDIX 6

General guidance for working in TPZ

1 PURPOSE OF THIS GUIDANCE

This guidance sets out the general principles that must be followed when working within a TPZ. Where more detail is required, it will be supplemented by illustrative specifications in other appendices in this document (refer Appendix 4 and 5).

This guidance is based on the Australian Standards (2009) AS4970: *Protection of Trees on Construction Sites*.

Once the site works start, this guidance is specifically for the site personnel to help them understand what has been agreed and explain what is required to fully meet their obligations to protect trees. All personnel working in TPZs must be properly briefed about their responsibilities towards important trees based on this guidance.

This guidance should always be read in conjunction with the Tree Management Plan (TMP01) illustrating the areas where specific precautions are necessary. Each area where precautions are required is explained on the plan as identified on the legend. All protective measures should be installed according to the prevailing site conditions and agreed as satisfactory by the Project Arborist before any demolition or construction work starts.

2 TREE PROTECTION

2.1 Tree Protection Zone (TPZ)

The TPZ is a radial setback, extending outwards from the centre of the trunk, where disturbance must be minimised if important trees are to be successfully retained. The TPZ area is illustrated on the Tree Management Plan (TMP01) accompanying this guidance.

- The TPZ is a radial setback extending outwards from the centre of the trunk equal to the DBH x 12.
- This area shall be protected by tree protective fencing (refer Appendix 4).
- Any part of the TPZ outside of the tree protective fencing area must be isolated from the work operations by protective barriers and/or root zone protection for the duration of the work (refer Appendix 5).
- The Project Arborist shall approve the extent of the TPZ prior to commencement of works.
- The TPZ shall be mulched to a depth of 90mm with approved organic mulch e.g. leaf and wood chip where possible.
- Supplementary watering shall be provided in dry periods to reduce water or construction stress, particularly to those trees which may incur minor root disturbance.

The following activities shall be excluded within the TPZ:

- Excavation, compaction or disturbance of the existing soil.
- The movement or storage of materials, waste or fill.
- Soil level changes
- Disposal/runoff of waste materials and chemicals including paint, solvents, cement slurry, fuel, oil and other toxic liquids
- Movement or storage of plant, machinery, equipment or vehicles.
- Any activity likely to damage the trunk, crown or root system.

2.2 Arboricultural supervision

Any work within TPZs requires a high level of care. Qualified arboricultural supervision is essential to minimise the risk of misunderstanding and misinterpretation. Site personnel must be properly briefed before any work starts. Ongoing work must be inspected regularly and, on completion, the work must be signed off by the Project Arborist to confirm compliance by the contractor.



2.3 Tree protection fencing, root zone and trunk protection

Prior to site establishment, tree protection fencing and root zone and trunk protection shall be installed to establish the TPZ for trees to be retained in accordance with site conditions. These protective barriers shall be maintained entire for the duration of the construction program (refer Appendix 4 and 5).

Tree protection fencing and trunk and root zone protection shall be removed following completion of construction. The mulch layer in the TPZ shall be retained and replenished where required to maintain a 75mm thickness

2.4 Pruning

All pruning work required (including root pruning) should be in accordance with Australian Standard No 4373-1996 - Pruning of Amenity Trees.

2.5 Tree Damage

In the event of damage to a tree or the TPZ, the Project Arborist shall be engaged to inspect and provide advice on remedial action. This should be implemented as soon as practicable and certified by the Project Arborist.

2.6 Post construction maintenance

In the event of any tree deteriorating in health after the construction period, the Project Arborist shall be engaged to provide advice on any remedial action. Remedial action shall be implemented as soon as practicable and certified by the Project Arborist.

3 EXCAVATION AND FILL IN TPZ

3.1 Excavation within TPZ

If excavation within the TPZ is required the following shall be applied to preserve tree root systems:

- Excavation within TPZ must be carried out under the instruction and supervision of the Project Arborist.
- A root mapping exercise is to be undertaken and certified by the Project Arborist. Root mapping shall be undertaken by either ground penetrating radar, air spade, water laser or by hand excavation using hand tools, taking care not to damage the bark and wood of any roots.
- The purpose of the root mapping shall be to locate woody structural roots greater than 40mm in diameter. Where possible, flexible clumps of smaller roots, including fibrous roots, should be retained if they can be displaced temporarily or permanently beyond the excavation without damage.
- If digging by hand, a fork shall be used to loosen the soil and help locate any substantial roots.
- Once roots have been located, the trowel shall be used to clear the soil away from them without damaging the bark.
- Exposed roots to be removed shall be cut cleanly with a sharp saw or secateurs.
- Roots temporarily exposed shall be protected from direct sunlight, drying out and extremes of temperature by appropriate covering.

3.2 Fill within TPZ

Placement of fill material within the Tree Protection Zone of trees to be retained should be avoided where possible. However, where fill cannot be avoided:

- All fill material to be placed within the TPZ should be approved by Project Arborist and consist of a course, gap-graded material to provide aeration and percolation to the root zone. Materials containing a high percentage of 'fines' is unacceptable for this purpose.
- The fill material should be consolidated with a non-vibrating roller to minimise compaction of the underlying soil.
- No fill material should be placed in direct contact with the trunk.



4 DEMOLITION OF SURFACING/STRUCTURES IN TPZ

4.1 Definitions of surfacing and structures

For the purposes of this guidance, the following broad definitions apply:

- **Surfacing:** Any hard surfacing used as a vehicular road, parking or pedestrian path including tarmac, solid stone, crushed stone, compacted aggregate, concrete and timber decking.
- **Structures:** Any man-made structure above or below ground including service pipes, walls, gate piers, buildings and foundations. Typically, this would include drainage structures, services, car-ports, bin stores and concrete slabs that support buildings.

4.2 Demolition and access

Roots frequently grow adjacent to and beneath existing surfacing/structures so great care is needed during access and demolition. Damage can occur through physical disturbance of roots and/or the compaction of soil around them from the weight of machinery or repeated pedestrian passage. This is not generally a problem whilst surfacing/structures are in place because they spread the load on the soil beneath and further protective measures are not normally necessary. However, once they are removed and the soil below is newly exposed, damage to roots becomes an issue and the following guidance must be implemented:

- No vehicular or repeated pedestrian access into TPZ permitted unless on existing hard surfacing or root zone protection.
- Regular vehicular and pedestrian access routes must be protected from compaction with temporary root zone protection as set out in Appendix 5.
- Where a TPZ is exposed by the work, it must be protected as set out in AS4970 until there is no risk of damage from the development activity.

4.3 Removal of surfacing/structures

Removing existing surfacing/structures is a high-risk activity for any adjacent roots and the following guidance must be observed:

- Appropriate tools for manually removing debris may include a pneumatic breaker, crow bar, sledgehammer, pick, mattock, shovel, spade, trowel, fork and wheelbarrow.
- Machines with a long reach may be used if they can work from outside the TPZ or from protected areas within the TPZ.
- Debris to be removed from the TPZ manually must be moved across existing hard surfacing or temporary root zone protection in a way that prevents compaction of soil. Alternatively, it can be lifted out by machines provided this does not disturb the TPZ.
- Great care must be taken throughout these operations not to damage roots.

5 INSTALLATION OF SURFACING/STRUCTURES IN TPZ

5.1 Basic principles: New surfacing/structures in a TPZ are potentially damaging to trees because they may disturb the soil and disrupt the existing exchange of water and gases in and out of it. Adverse impact on trees can be reduced by minimising the extent of these changes within the TPZ.

- **Surfacing:** Suitable surfacing should be relatively permeable to allow water and gas movement, load spreading to avoid localised compaction and require little or no excavation to limit direct damage. The actual specification of the surfacing is an engineering issue that needs to be considered in the context of the bearing capacity of the soil, the intended loading and the frequency of loading. The detail of product and specification are beyond the scope of this guidance and must be provided separately by the appropriate specialist.
- **Structures:** Where possible structures are to be constructed above ground level on piled supports and redirecting water to where it is needed. The detailed design and specification of such structures is an engineering issue that should be informed and guided by the Project Arborist. Conventional strip foundations in the TPZ for any significant structure may cause excessive root loss and are unlikely to be acceptable. However, disturbance can be significantly reduced by supporting the above ground part of the structures on small diameter piles/piers or



cast floor slabs set above ground level. The design should be sufficiently flexible to allow the piles to be moved if significant roots are encountered in the preferred locations.

5.2 Establishing the depth of roots

The precise location and depth of roots within the soil is unpredictable and will only be known when careful digging starts on site. Ideally, all new surfacing within a TPZ should be no-dig, i.e. requiring no excavation whatsoever, but this is rarely possible on undulating surfaces.

New surfacing normally requires an evenly graded sub-base layer, which can be made up to any high points with granular, permeable fills such as crushed stone or sharp sand. This sub-base must not be compacted as would happen in conventional surface installation. Some limited excavation is usually necessary to achieve this and need not be damaging to trees if carried out carefully and large roots are not cut.

Tree roots and grass roots rarely occupy the same soil volume at the top of the soil profile, so the removal of a turf layer up to 50mm is unlikely to be damaging to trees. It may be possible to dig to a greater depth depending on local conditions but this would need to be assessed by the Project Arborist.

6 SERVICES IN TPZ

For the purposes of this guidance, services are considered as structures. Excavation to upgrade existing services or to install new services within a TPZ may damage retained trees and should only be chosen as a last resort. In the event that excavation emerges as the preferred option, the decision should be reviewed by the Project Arborist before any work is carried out. If excavation is agreed, all digging should be done carefully and follow the guidance set out in 3.1 above.

7 SOFT LANDSCAPING IN TPZ

For the purposes of this guidance, soft landscaping includes the re-profiling of existing soil levels and covering the soil surface with new plants or an organic covering (mulch). It does not include the installation of solid structures or compacted surfacing.

Soft landscaping activity after construction can be extremely damaging to trees.

No significant excavation or cultivation shall occur within the TPZ (e.g. planting holes). Where new designs require levels to be increased to tie in with new structures or surrounding ground level, good quality and relatively permeable top soil should be used for the fill. It should be firmed into place but not over compacted in preparation for turfing or careful shrub planting.

All areas close to tree trunks should be kept at the original ground level and have a mulched finish rather than grass to reduce the risk of mowing damage.



APPENDIX 7

Schedule of works and responsibilities

Hold Point	Task	Responsibility	Certification	Timing of Inspection
1	Indicate clearly (with spray paint) trees approved for removal only	Principal Contractor	Project Arborist	Prior to demolition and site establishment
2	Establishment of tree protection fencing and additional root, trunk and/or branch protection	Principal Contractor	Project Arborist	Prior to demolition and site establishment
3	Supervise all excavations works proposed within the TPZ	Principal Contractor	Project Arborist	As required prior to the works proceeding adjacent to the tree
4	Inspection of trees by Project Arborist	Principal Contractor	Project Arborist	Monthly during construction period
5	Final inspection of trees by Project Arborist	Principal Contractor	Project Arborist	Prior to the issue of Occupation Certificate

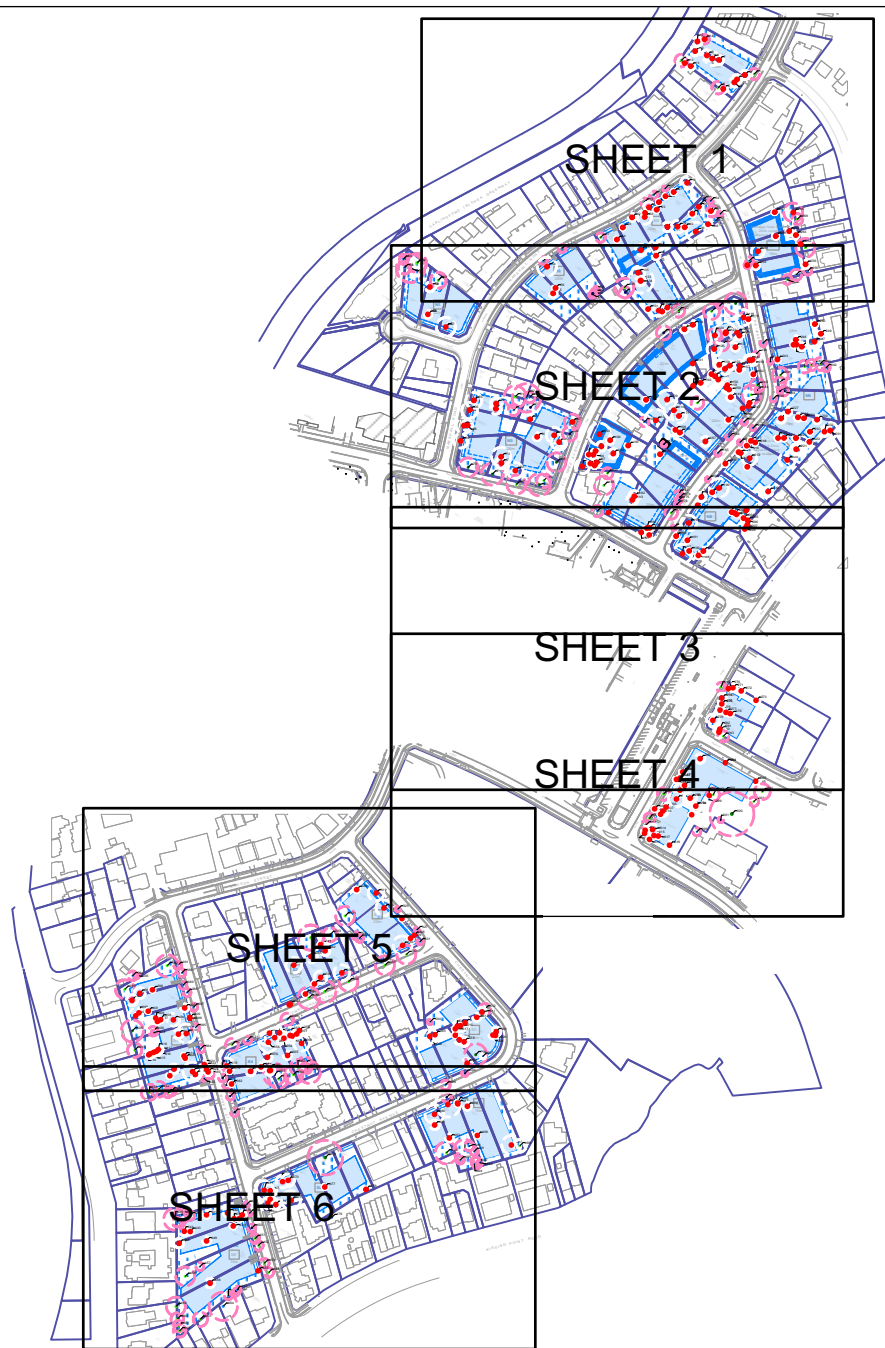


APPENDIX 8

Tree management plan

-refer attached Tree Management Plan, Dwg No. TMP01,
by Naturally Trees dated 2 November 2022





LEGEND:

- | | | |
|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ● Category AA | Existing layout | Protective fencing and TPZ area within |
| ● Category A | Proposed layout | TPZ where ground protection must be installed |
| ● Category Z | Tree protection zone (TPZ) boundaries | Tree to be removed |
| ● Category ZZ | Trees not worthy of being a constraint | |
| | Trees worthy of being a constraint | |



ISSUE	DATE	REVISION	SHEET #
PROJECT	Telopea STAGE 2 and 3 WORKS		COVER PG.
CLIENT	Land & Housing Corporation		DWG #
DWG	Tree Management Plan		TMP01
	DATE # 02/11/2022	NTS	
	SCALE @ A3	AS	
	DRAWN	AS	
	CHKD	REVISION C	
Naturally Trees Arboricultural Consulting PO Box 5085 Elanora Heights NSW 2101 Australia T: 0417 250 420 W: www.naturallytrees.com.au E: info@naturallytrees.com.au			

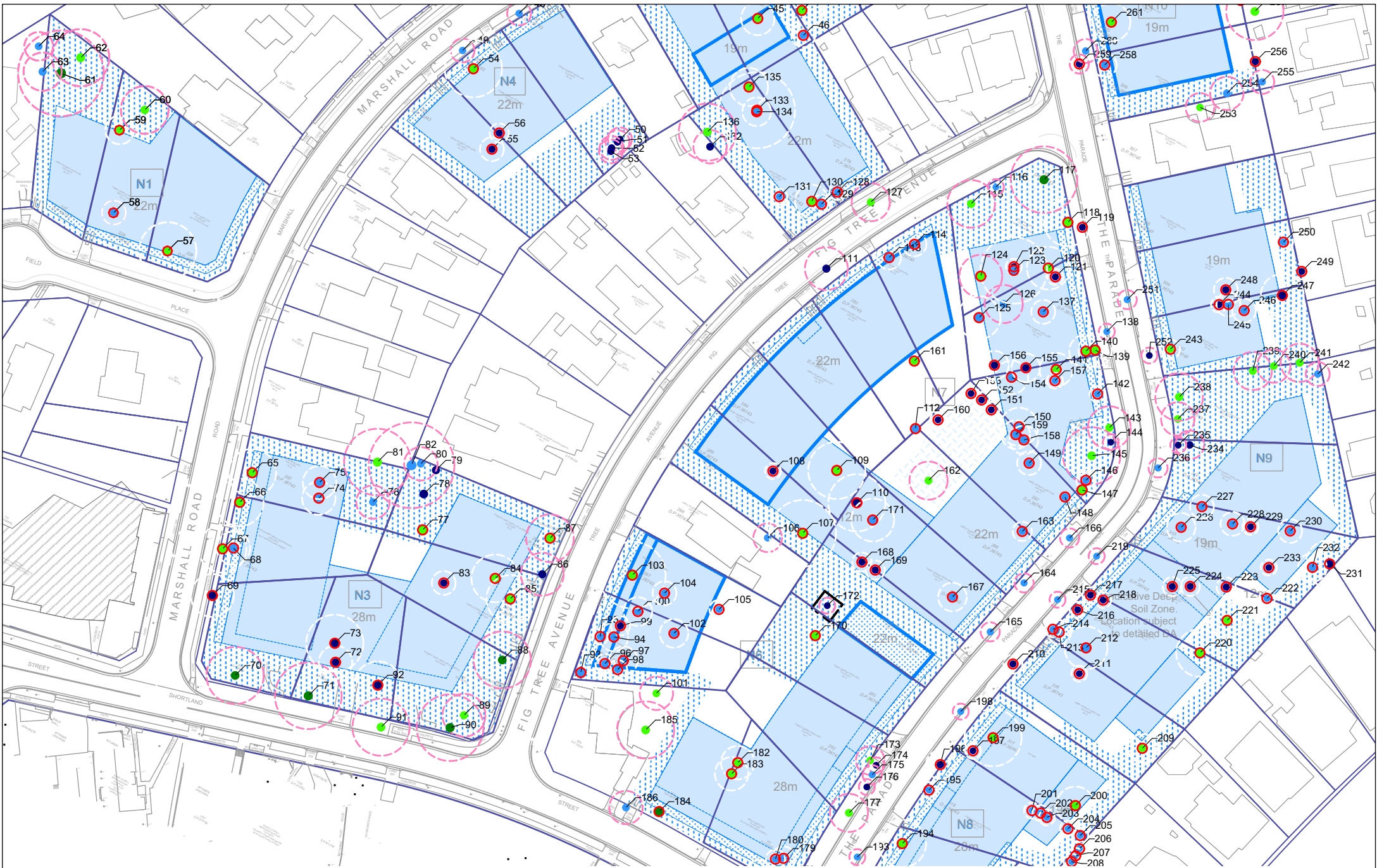


LEGEND:

	Category AA	Trees worthy of being a constraint
	Category A	
	Category Z	Trees not worthy of being a constraint
	Category ZZ	
	Existing layout	
	Proposed layout	
	Protective fencing and TPZ area within	
	TPZ where ground protection must be installed	
	Tree protection zone (TPZ) boundaries	
	Tree to be removed	



ISSUE	DATE	REVISION	SHEET #
PROJECT	Telopea STAGE 2 and 3 WORKS		1 of 6
CLIENT	Land & Housing Corporation		DWG #
DWG	Tree Management Plan		TMP01
DATE #	02/11/2022	SCALE @ A3	1:1000
DRAWN	AS	CHD	REVISION C
Naturally Trees Arboricultural Consulting			
PO Box 5085 Elanora Heights NSW 2101 Australia		W: www.naturallytrees.com.au	
T: 0417 250 420		E: info@naturallytrees.com.au	





LEGEND:

Category AA	Existing layout	Protective fencing and TPZ area within
Category A	Proposed layout	TPZ where ground protection must be installed
Category Z	Tree protection zone (TPZ) boundaries	Tree to be removed
Category ZZ		

Trees worthy of being a constraint

Trees not worthy of being a constraint



ISSUE	DATE	REVISION	SHEET #
PROJECT	Telopea STAGE 2 and 3 WORKS		3 of 6
CLIENT	Land & Housing Corporation		DWG #
DWG	Tree Management Plan		TMP01
DATE #	02/11/2022	SCALE @ A3	1:1000
DRAWN	AS	CHRD	REVISION C
Naturally Trees Arboricultural Consulting			
PO Box 5085 Elanora Heights NSW 2101 Australia W: www.naturallytrees.com.au			
T: 0417 250 420 E: info@naturallytrees.com.au			



LEGEND:

● Category AA

Trees worthy of being a constraint

● Category A

Trees not worthy of being a constraint

● Category Z

Trees not worthy of being a constraint

● Category ZZ

Trees not worthy of being a constraint

Existing layout

Proposed layout

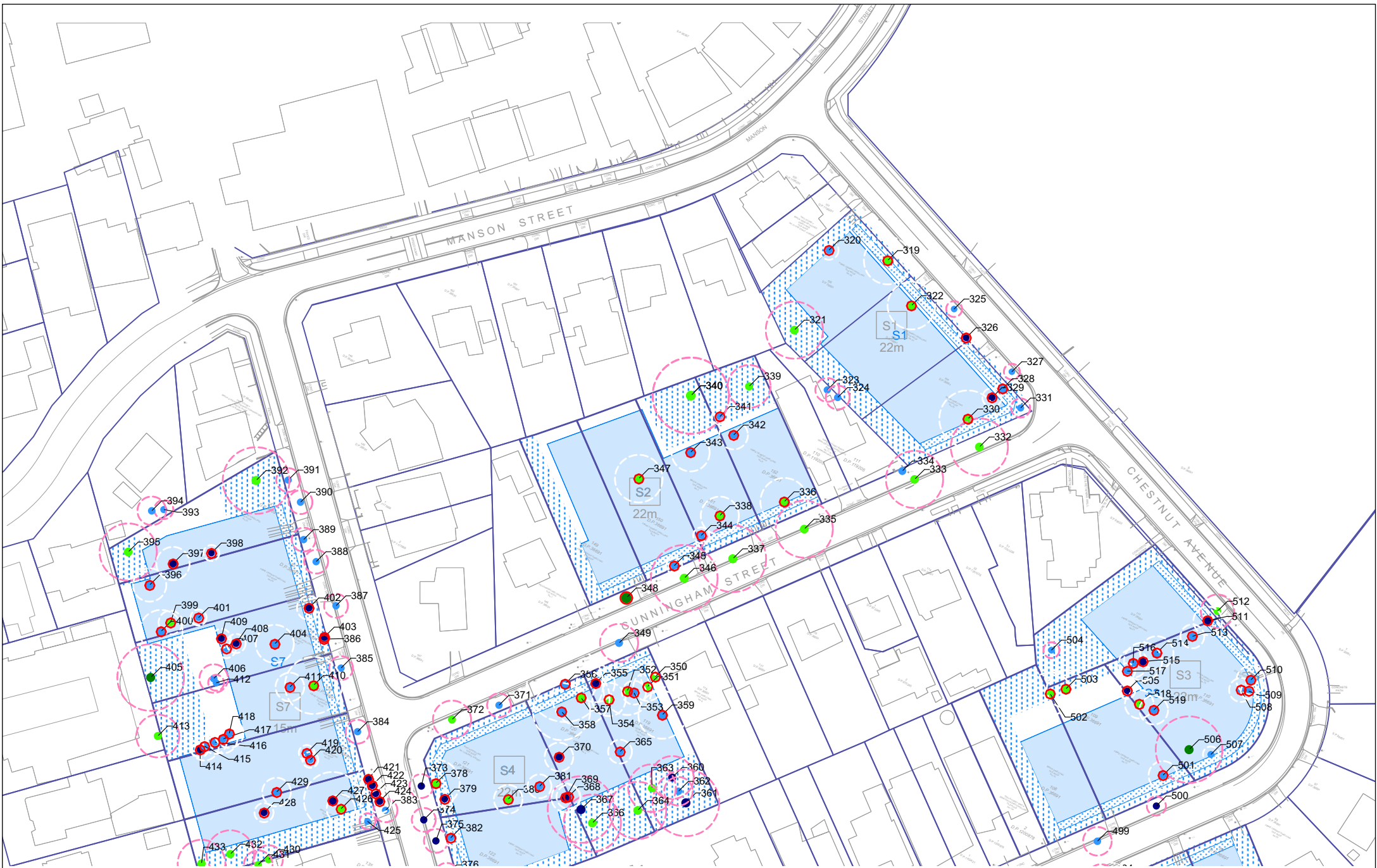
Protective fencing and TPZ area within

TPZ where ground protection must be installed

Tree protection zone (TPZ) boundaries

Tree to be removed

ISSUE	DATE	REVISION	SHEET #
PROJECT	Telopea STAGE 2 and 3 WORKS		4 of 6
CLIENT	Land & Housing Corporation		DWG # TMP01
DWG	Tree Management Plan		CHRD
Naturally Trees Arboricultural Consulting		W: www.naturallytrees.com.au	
PO Box 5085 Elanora Heights NSW 2101 Australia		T: 0417 250 420	
		E: info@naturallytrees.com.au	



LEGEND:

- Category AA: Trees worthy of being a constraint (Green dot)
- Category A: Trees worthy of being a constraint (Light Green dot)
- Category Z: Trees not worthy of being a constraint (Blue dot)
- Category ZZ: Trees not worthy of being a constraint (Dark Blue dot)
- Existing layout (Thin grey line)
- Proposed layout (Thick blue line)
- Protective fencing and TPZ area within (Black dashed line)
- TPZ where ground protection must be installed (Yellow hatched area)
- Tree protection zone (TPZ) boundaries (Pink dashed circle)
- Tree to be removed (Red circle)



ISSUE	DATE	REVISION	SHEET #
PROJECT	Telopea STAGE 2 and 3 WORKS		5 of 6
CLIENT	Land & Housing Corporation		DATE # 02/11/2022
DWG	Tree Management Plan		SCALE @ A3 1:1000
			DRAWN AS
			CHKD
			REVISION C
Naturally Trees Arboricultural Consulting			DWG # TMP01
PO Box 5085 Elanora Heights NSW 2101 Australia			
W: www.naturallytrees.com.au			
T: 0417 250 420			
E: info@naturallytrees.com.au			



LEGEND:

- Category AA: Trees worthy of being a constraint
- Category A: Trees worthy of being a constraint
- Category Z: Trees not worthy of being a constraint
- Category ZZ: Trees not worthy of being a constraint
- Existing layout
- Proposed layout
- Protective fencing and TPZ area within
- TPZ where ground protection must be installed
- Tree protection zone (TPZ) boundaries
- Tree to be removed



ISSUE	DATE	REVISION	SHEET #
PROJECT	Telopea STAGE 2 and 3 WORKS		6 of 6
CLIENT	Land & Housing Corporation		DWG #
DWG	Tree Management Plan		TMP01
DATE #	02/11/2022	SCALE @ A3	1:1000
DRAWN	AS	CHKD	REVISION C
Naturally Trees Arboricultural Consulting PO Box 5085 Elanora Heights NSW 2101 Australia T: 0417 250 420 W: www.naturallytrees.com.au E: info@naturallytrees.com.au			