



ARTERRA DESIGN PTY LTD ABN 40 069 552 610
SUITE 602 / 51 RAWSON STREET, EPPING, NSW 2121
P 02 9957 2466 **F** 02 9957 3977 **W** ARTERRA.COM.AU

PROJECT & CLIENT

SummitCare - Jamisontown ILUs and RAC

Residential Aged Care Facility and Independent Living Units
366 Jamison Road Jamisontown, N.S.W. 2750

Prepared for :
SummitCare

Arboricultural Plans

DRAWING INDEX

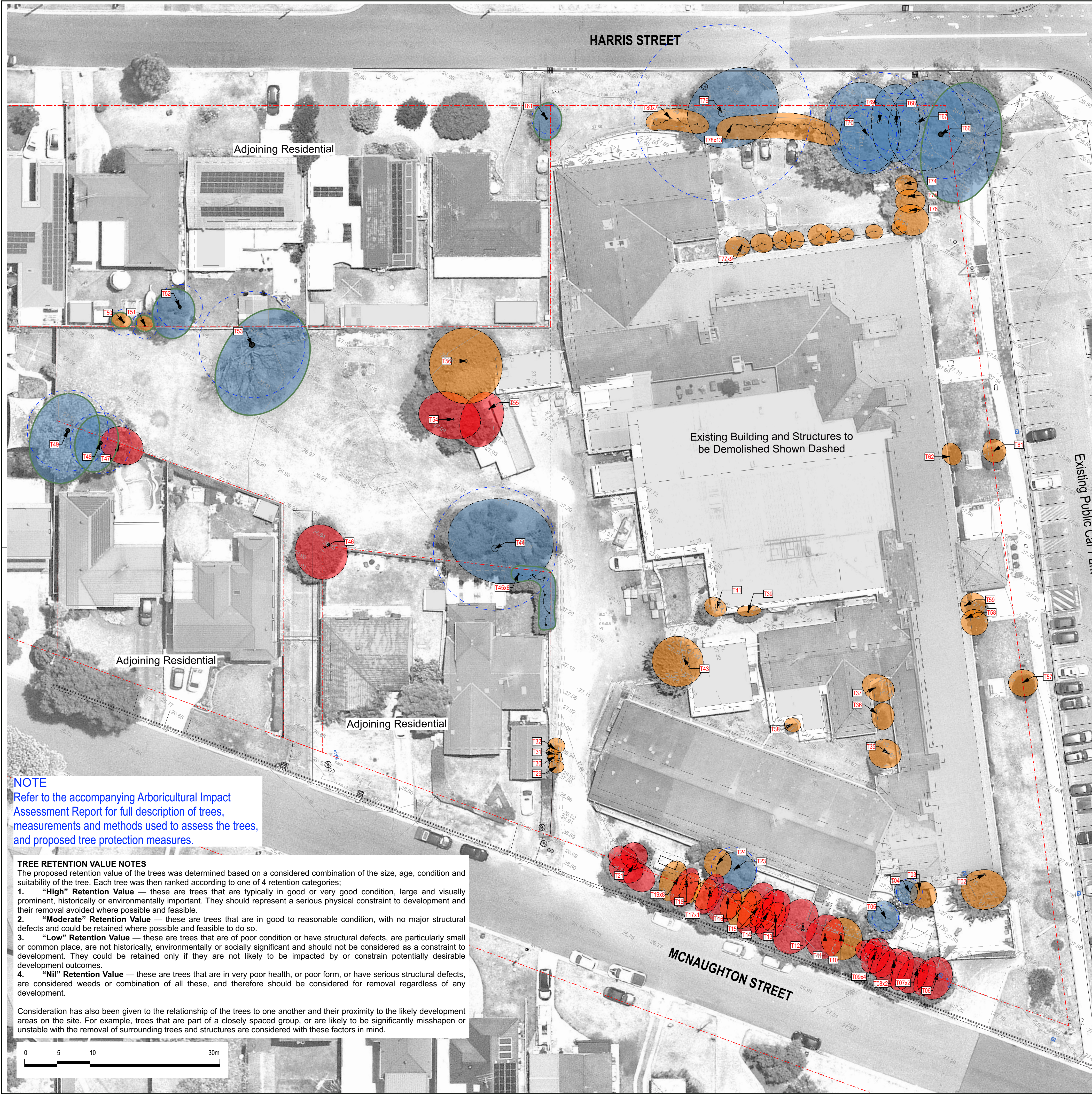
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DATE :

25 June 2024

ISSUE :

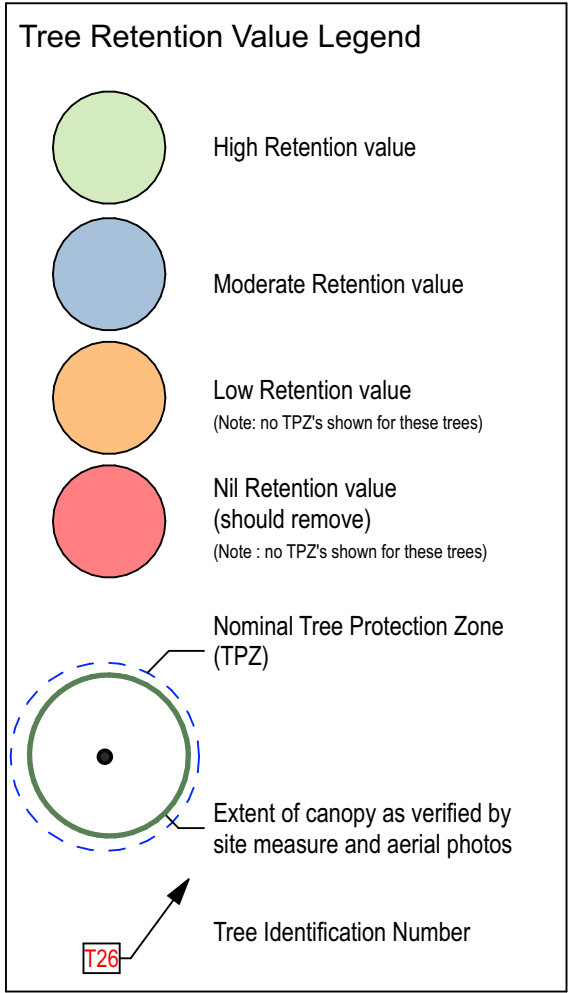
For SSDA



SummitCare, Jamisontown - Tree Assessment Schedule (7/12/23)									
Tree	Species	Common Name	Trunk Diameter Breast Height (dbh) (mm)	Trunk Diameter at base (dgb) (mm)	Nominal TPZ radius (m) 12dbh (AS 4970)	Nominal SRZ radius (m) (AS 4970)	Retention Value	Recommendation	
2	Cupressus macrocarpa cv.	Monterey Cypress	0.35	0.41	4.20	2.28	Low	Remove	
3	Lagotis indica	Cree Myrtle	0.10	0.12	2.00	1.36	Low	Remove	
4	Magnolia grandiflora	American Bull Bay Magnolia	0.10	0.12	2.00	1.36	Moderate	Remove	
5	Pyrus calleryana cv.	Callery Pear	0.15	0.20	2.00	1.68	Moderate	Remove	
6	Ligustrum lucidum	Broadleaf Privet	0.20	0.40	2.40	2.25	Nil / Remove	Remove	
7	Ligustrum lucidum	Broadleaf Privet	0.20	0.40	2.40	2.25	Nil / Remove	Remove	
8	Ligustrum lucidum	Broadleaf Privet	0.15	0.25	2.00	1.85	Nil / Remove	Remove	
9	Ligustrum lucidum	Broadleaf Privet	0.15	0.18	2.00	1.61	Nil / Remove	Remove	
10	Melia azadirach	White Cedar	0.25	0.42	3.00	2.30	Low	Remove	
11	Ligustrum lucidum	Broadleaf Privet	0.20	0.22	2.40	1.75	Nil / Remove	Remove	
12	Ligustrum lucidum	Broadleaf Privet	0.30	0.35	3.60	2.13	Nil / Remove	Remove	
13	Ligustrum lucidum	Broadleaf Privet	0.21	0.28	2.52	1.94	Nil / Remove	Remove	
14	Ligustrum lucidum	Broadleaf Privet	0.20	0.34	2.40	2.10	Nil / Remove	Remove	
15	Ligustrum lucidum	Broadleaf Privet	0.20	0.26	2.40	1.88	Nil / Remove	Remove	
16	Ligustrum lucidum	Broadleaf Privet	0.20	0.26	2.40	1.88	Nil / Remove	Remove	
17	Ligustrum lucidum	Broadleaf Privet	0.28	0.40	3.36	2.25	Nil / Remove	Remove	
18	Ligustrum lucidum	Broadleaf Privet	0.26	0.45	3.12	2.37	Nil / Remove	Remove	
19	Phytolacca fraseri 'Robusta'	Phytolacca	0.20	0.25	2.40	1.85	Low	Remove	
21	Ligustrum lucidum	Broadleaf Privet	0.30	0.30	3.60	2.00	Nil / Remove	Remove	
23	Syzygium paniculatum	Magenta Cherry	0.29	0.35	3.48	2.13	Moderate	Remove	
24	Crataegus mollis	Cape Chestnut	0.12	0.17	2.00	1.57	Low	Remove	
29	Callistemon viminalis cv.	Weeping Bottlebrush	0.10	0.15	2.00	1.49	Low	Remove	
30	Callistemon viminalis cv.	Weeping Bottlebrush	0.10	0.15	2.00	1.49	Low	Remove	
31	Callistemon viminalis cv.	Weeping Bottlebrush	0.10	0.15	2.00	1.49	Low	Remove	
32	Callistemon viminalis cv.	Weeping Bottlebrush	0.10	0.15	2.00	1.49	Low	Remove	
35	Camellia sasanqua	Camellia	0.16	0.19	2.00	1.65	Low	Remove	
36	Plumeria rubra	Frangipani	0.18	0.18	2.16	1.61	Low	Remove	
37	Plumeria rubra	Frangipani	0.21	0.25	2.52	1.85	Low	Remove	
38	Camellia sasanqua	Camellia	0.05	0.10	2.00	1.26	Low	Remove	
39	Callistemon viminalis cv.	Weeping Bottlebrush	0.12	0.16	2.00	1.53	Low	Remove	
41	Ficus elastica	Guinea Yucca	0.22	0.40	2.64	2.25	Moderate	Remove	
43	Cupressus macrocarpa cv.	Monterey Cypress	0.42	0.54	5.04	2.55	Low	Remove	
44	Schinus molle	Peppercorn Tree	0.79	1.00	9.48	3.31	Moderate	Remove	
45	Murphya paniculata	Murphya	0.12	0.15	2.00	1.49	Moderate	Retain and Protect	
46	Ligustrum lucidum	Broadleaf Privet	0.40	0.40	4.80	2.25	Nil / Remove	Remove	
47	Ligustrum lucidum	Broadleaf Privet	0.15	0.20	2.00	1.68	Nil / Remove	Remove	
48	Syzygium paniculatum	Magenta Cherry	0.39	0.49	4.68	2.45	Moderate	Retain and Protect	
49	Jacaranda mimosifolia	Jacaranda	0.52	0.60	6.24	2.67	Moderate	Retain and Protect	
50	Citrus x latifolia	Persian (Common) Lime	0.15	0.20	2.00	1.68	Low	Retain and Protect	
51	Callistemon viminalis cv.	Weeping Bottlebrush	0.11	0.20	2.00	1.68	Low	Retain and Protect	
52	Callistemon viminalis cv.	Weeping Bottlebrush	0.29	0.42	3.48	2.30	Moderate	Retain and Protect	
53	Jacaranda mimosifolia	Jacaranda	0.68	0.80	8.16	3.01	Moderate	Retain and Protect	
54	Celastrus scandens	Chinese Hackberry	0.25	0.30	3.00	2.00	Nil / Remove	Remove	
55	Celastrus scandens	Chinese Hackberry	0.22	0.27	2.64	1.91	Nil / Remove	Remove	
56	Melia azadirach	White Cedar	0.41	0.47	4.92	2.41	Low	Remove	
57	Pyrus calleryana cv.	Callery Pear	0.14	0.14	2.00	1.45	Low	Remove	
58	Plumeria rubra	Frangipani	0.21	0.25	2.52	1.85	Low	Remove	
59	Plumeria rubra	Frangipani	0.12	0.20	2.00	1.68	Low	Remove	
61	Hibiscus rosa-sinensis	China Rose	0.20	0.30	2.40	2.00	Low	Remove	
62	Plumeria rubra	Frangipani	0.14	0.16	2.00	1.53	Low	Remove	
66	Ulmus parvifolia	Chinese Elm	0.57	0.71	6.84	2.87	Moderate	Retain and Protect	
67	Populus deltoides	American Cottonwood	0.66	0.80	7.92	3.01	Moderate	Remove	
68	Ulmus parvifolia	Chinese Elm	0.38	0.56	4.56	2.59	Moderate	Remove	
69	Populus deltoides	American Cottonwood	0.63	0.73	7.56	2.90	Moderate	Remove	
70	Ulmus parvifolia	Chinese Elm	0.33	0.40	3.96	2.25	Moderate	Remove	
74	Callistemon viminalis cv.	Weeping Bottlebrush	0.19	0.25	2.28	1.85	Low	Remove	
75	Callistemon viminalis cv.	Weeping Bottlebrush	0.16	0.22	2.00	1.75	Low	Remove	
76	Callistemon viminalis cv.	Weeping Bottlebrush	0.33	0.37	3.96	2.18	Low	Remove	
77	Hibiscus rosa-sinensis	China Rose	0.09	0.18	2.00	1.61	Low	Remove	
78	Viburnum tinus	Laurel	0.15	0.20	2.00	1.68	Low	Remove	
79	Schinus molle	Peppercorn Tree	1.13	1.20	13.56	3.57	Moderate	Remove	
80	Viburnum tinus	Laurel	0.10	0.15	2.00	1.49	Low	Remove	
81	Callistemon chinensis cv.	Crimson Bottlebrush	0.19	0.26	2.28	1.88	Moderate	Retain and Protect	

NOTE
Refer to the accompanying Arboricultural Impact Assessment Report for full description of trees, measurements and methods used to assess the trees, and proposed tree protection measures.

TREE RETENTION VALUE NOTES
The proposed retention value of the trees was determined based on a considered combination of the size, age, condition and suitability of the tree. Each tree was then ranked according to one of 4 retention categories;
1. **"High" Retention Value** — these are trees that are typically in good or very good condition, large and visually prominent, historically or environmentally important. They should represent a serious physical constraint to development and their removal avoided where possible and feasible.
2. **"Moderate" Retention Value** — these are trees that are in good to reasonable condition, with no major structural defects and could be retained where possible and feasible to do so.
3. **"Low" Retention Value** — these are trees that are of poor condition or have structural defects, are particularly small or common place, are not historically, environmentally or socially significant and should not be considered as a constraint to development. They could be retained only if they are not likely to be impacted by or constrain potentially desirable development outcomes.
4. **"Nil" Retention Value** — these are trees that are in very poor health, or poor form, or have serious structural defects, are considered weeds or combination of all these, and therefore should be considered for removal regardless of any development.
Consideration has also been given to the relationship of the trees to one another and their proximity to the likely development areas on the site. For example, trees that are part of a closely spaced group, or are likely to be significantly misshapen or unstable with the removal of surrounding trees and structures are considered with these factors in mind.



REVISION	DESCRIPTION	CHWD	DATE
A	For SSDA Submission	RWS	12/06/24
P2	For Information	RWS	15/01/24
P1	For Information	RWS	11/11/21

SummitCare - Jamisontown ILUs and RAC

Tree Retention Value Plan

Project No : 21.29
Designed : RWS/CLB
Drawn : RWS/CLB/BT
Scale : 1:300@A1/1:600@A3

T53 (*Jacaranda mimosifolia*) - Surface impacts to be managed.
Area around the tree to be retained at existing levels, apart from the topping up of topsoil and installation of mulch. New landscape decking to the east of the tree to be suspended above the existing ground levels. Posts for decking are to be located outside of the SRZ and are to be tailored on site based on root investigations and as directed by the Project Consulting Arborist. Building piers and/or footings to be located outside of the TPZ. Mulch and temporary irrigation to be applied during construction. Fencing to remain in place during major building works and can only be removed to undertake final landscape works and to construct the deck. Minor <5% incursion for stormwater connection, otherwise only minor surface impacts expected. Install trunk and lower branch protection. Minor canopy pruning (<5%) is required for final clearances. Canopy pruning to be undertaken by a minimum AQF Level 3 Arborist and only at the direction of the Project Consulting Arborist. Pruning extent is to be minimised where possible.

Minor incursion 6% to T66 (*Ulmus parvifolia*)
Area around the tree to be retained at existing levels, apart from the topping up of topsoil and installation of mulch. Minor incursion expected for the excavation required to construct the basement and stormwater connection. Small low height excavator to be used when under canopy for trenching. No benching or battering to be undertaken within TPA to construct new building. New building terrace immediately adjacent the tree (to the south) is to be suspended above the existing ground levels. Works undertaken in this location are to be supervised by the Project Consulting Arborist. Mulch and temporary irrigation to be applied during construction. Fencing to remain in place during major building works and can only be removed to undertake final landscape works. Install trunk and lower branch protection. Minor canopy pruning (<10%) may be required for building and scaffold clearances. Canopy pruning to be undertaken by a minimum AQF Level 3 Arborist and only at the direction of the Project Consulting Arborist. Pruning extent is to be minimised where possible.

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T48 (*Syzygium paniculatum*) and T49 (*Jacaranda mimosifolia*) - Surface impacts to be managed.
Area around the trees to be retained at existing levels, apart from the topping up of topsoil and installation of mulch. Fencing to remain in place during major building works and can only be removed to undertake final landscape works and to construct the footpath. Footpath to be construction at or above existing levels with only minor surface impacts expected. Provide temporary irrigation if directed by Arborist.

NOTE
Contours and spot heights shown on the plan are existing surveyed contours and spot heights.

NOTE
Refer to the accompanying Arboricultural Impact Assessment Report for full description of trees, measurements and methods used to assess the trees, and proposed tree protection measures.



HARRIS STREET

TREES NEED TO BE REMOVED FOR BUILDING/GRADING AND SERVICES CONNECTION

MCNAUGHTON STREET

JAMISON ROAD

SummitCare, Jamisontown - Tree Assessment Schedule (7/12/23)											
Tree ID	Tree Species	Common Name	Trunk Diameter Breast Height (dbh) (m)	Trunk Diameter at base (dbh) (m)	Nominal TPZ radius (m) 12xdbh (AS 4970)	Nominal SRZ radius (m) (AS 4970)	Sh Retention Value	Recommendation			
2	<i>Cupressus macrocarpa</i> cv.	Monterey Cypress	0.35	0.41	4.20	2.28	Low		Remove		
3	<i>Lagerstroemia indica</i>	Crape Myrtle	0.10	0.12	2.00	1.36	Low		Remove		
4	<i>Magnolia grandiflora</i>	American Bull Bay Magnolia	0.10	0.12	2.00	1.36	Moderate		Remove		
5	<i>Pyrus calleryana</i> cv.	Callery Pear	0.15	0.20	2.00	1.68	Moderate		Remove		
6	<i>Ligustrum lucidum</i>	Broadleaf Privet	0.20	0.40	2.40	2.25	Nil / Remove		Remove		
7	<i>Ligustrum lucidum</i>	Broadleaf Privet	0.20	0.40	2.40	2.25	Nil / Remove		Remove		
8	<i>Ligustrum lucidum</i>	Broadleaf Privet	0.15	0.25	2.00	1.85	Nil / Remove		Remove		
9	<i>Ligustrum lucidum</i>	Broadleaf Privet	0.15	0.18	2.00	1.61	Nil / Remove		Remove		
10	<i>Melia azadirach</i>	White Cedar	0.25	0.42	3.00	2.30	Low		Remove		
11	<i>Ligustrum lucidum</i>	Broadleaf Privet	0.20	0.22	2.40	1.75	Nil / Remove		Remove		
12	<i>Ligustrum lucidum</i>	Broadleaf Privet	0.30	0.35	3.60	2.13	Nil / Remove		Remove		
13	<i>Ligustrum lucidum</i>	Broadleaf Privet	0.21	0.28	2.52	1.94	Nil / Remove		Remove		
14	<i>Ligustrum lucidum</i>	Broadleaf Privet	0.20	0.34	2.40	2.10	Nil / Remove		Remove		
15	<i>Ligustrum lucidum</i>	Broadleaf Privet	0.20	0.26	2.40	1.88	Nil / Remove		Remove		
16	<i>Ligustrum lucidum</i>	Broadleaf Privet	0.20	0.26	2.40	1.88	Nil / Remove		Remove		
17	<i>Ligustrum lucidum</i>	Broadleaf Privet	0.28	0.40	3.36	2.25	Nil / Remove		Remove		
18	<i>Ligustrum lucidum</i>	Broadleaf Privet	0.26	0.45	3.12	2.37	Nil / Remove		Remove		
19	<i>Photinia x fraseri</i> 'Robusta'	Photinia	0.20	0.25	2.40	1.85	Low		Remove		
21	<i>Ligustrum lucidum</i>	Broadleaf Privet	0.30	0.30	3.60	2.00	Nil / Remove		Remove		
23	<i>Syzygium paniculatum</i>	Magenta Cherry	0.29	0.35	3.48	2.13	Moderate		Remove		
24	<i>Calidendrum capense</i>	Cape Chestnut	0.12	0.17	2.00	1.57	Low		Remove		
29	<i>Callistemon viminalis</i> cv.	Weeping Bottlebrush	0.10	0.15	2.00	1.49	Low		Remove		
30	<i>Callistemon viminalis</i> cv.	Weeping Bottlebrush	0.10	0.15	2.00	1.49	Low		Remove		
31	<i>Callistemon viminalis</i> cv.	Weeping Bottlebrush	0.10	0.15	2.00	1.49	Low		Remove		
32	<i>Callistemon viminalis</i> cv.	Weeping Bottlebrush	0.10	0.15	2.00	1.49	Low		Remove		
33	<i>Callistemon viminalis</i> cv.	Weeping Bottlebrush	0.10	0.15	2.00	1.49	Low		Remove		
35	<i>Camellia sasanqua</i>	Camellia	0.16	0.19	2.00	1.65	Low		Remove		
36	<i>Plumeria rubra</i>	Frangipani	0.18	0.18	2.16	1.61	Low		Remove		
37	<i>Plumeria rubra</i>	Frangipani	0.21	0.25	2.52	1.85	Low		Remove		
38	<i>Camellia sasanqua</i>	Camellia	0.05	0.10	2.00	1.26	Low		Remove		
39	<i>Callistemon viminalis</i> cv.	Weeping Bottlebrush	0.12	0.16	2.00	1.53	Low		Remove		
41	<i>Yucca elephantipes</i>	Giant Yucca	0.22	0.40	2.64	2.25	Low		Remove		
43	<i>Cupressus macrocarpa</i> cv.	Monterey Cypress	0.42	0.54	5.04	2.55	Low		Remove		
44	<i>Schinus molle</i>	Peppercorn Tree	0.79	1.00	9.48	3.31	Moderate		Remove		
45	<i>Murraya paniculata</i>	Murraya	0.12	0.15	2.00	1.49	Moderate		Retain and Protect		
46	<i>Ligustrum lucidum</i>	Broadleaf Privet	0.40	0.40	4.80	2.25	Nil / Remove		Remove		
47	<i>Ligustrum lucidum</i>	Broadleaf Privet	0.15	0.20	2.00	1.68	Nil / Remove		Remove		
48	<i>Syzygium paniculatum</i>	Magenta Cherry	0.39	0.49	4.68	2.45	Moderate		Retain and Protect		
49	<i>Jacaranda mimosifolia</i>	Jacaranda	0.52	0.60	6.24	2.67	Moderate		Retain and Protect		
50	<i>Citrus x latifolia</i>	Persian (Common) Lime	0.15	0.20	2.00	1.68	Low		Retain and Protect		
51	<i>Callistemon viminalis</i> cv.	Weeping Bottlebrush	0.11	0.20	2.00	1.68	Low		Retain and Protect		
52	<i>Callistemon viminalis</i> cv.	Weeping Bottlebrush	0.29	0.42	3.48	2.30	Moderate		Retain and Protect		
53	<i>Jacaranda mimosifolia</i>	Jacaranda	0.68	0.80	8.16	3.01	Moderate		Retain and Protect		
54	<i>Celtis sinensis</i>	Chinese Hackberry	0.25	0.30	3.00	2.00	Nil / Remove		Remove		
55	<i>Celtis sinensis</i>	Chinese Hackberry	0.22	0.27	2.64	1.91	Nil / Remove		Remove		
56	<i>Melia azadirach</i>	White Cedar	0.41	0.47	4.92	2.41	Low		Remove		
57	<i>Prunus cerasifera</i> 'Nigra'	Purple-leaved Cherry-plum	0.14	0.14	2.00	1.45	Low		Remove		
58	<i>Plumeria rubra</i>	Frangipani	0.21	0.25	2.52	1.85	Low		Remove		
59	<i>Plumeria rubra</i>	Frangipani	0.12	0.20	2.00	1.68	Low		Remove		
61	<i>Hibiscus rosahenryi</i>	China Rose	0.20	0.30	2.40	2.00	Low		Remove		
62	<i>Plumeria rubra</i>	Frangipani	0.14	0.18	2.00	1.53	Low		Remove		
63	<i>Ulmus paniculata</i>	Chinese Elm	0.57	0.71	6.84	2.87	Moderate		Retain and Protect		
67	<i>Populus deltoides</i>	American Cottonwood	0.66	0.80	7.92	3.01	Moderate		Remove		
68	<i>Ulmus paniculata</i>	Chinese Elm	0.38	0.56	4.56	2.59	Moderate		Remove		
69	<i>Populus deltoides</i>	American Cottonwood	0.63	0.73	7.56	2.90	Moderate		Remove		
70	<i>Ulmus paniculata</i>	Chinese Elm	0.33	0.40	3.96	2.25	Moderate		Remove		
74	<i>Callistemon viminalis</i> cv.	Weeping Bottlebrush	0.19	0.25	2.28	1.85	Low		Remove		
75	<i>Callistemon viminalis</i> cv.	Weeping Bottlebrush	0.16	0.22	2.00	1.75	Low		Remove		
76	<i>Callistemon viminalis</i> cv.	Weeping Bottlebrush	0.33	0.37	3.96	2.18	Low		Remove		
77	<i>Hibiscus rosahenryi</i>	China Rose	0.09	0.18	2.00	1.61	Low		Remove		
78	<i>Viburnum tinus</i>	Laurelthorn	0.15	0.20	2.00	1.68	Low		Remove		
79	<i>Schinus molle</i>	Peppercorn Tree	1.13	1.20	13.56	3.67	Moderate		Remove		
80	<i>Viburnum tinus</i>	Laurelthorn	0.10	0.15	2.00	1.49	Low		Remove		
81	<i>Callistemon citrinus</i> cv.	Crimson Bottlebrush	0.19	0.26	2.28	1.88	Moderate		Retain and Protect		

TREE PROTECTION SPECIFICATIONS

1. Tree Protection Measures and Protocols.

All work around existing trees to be retained shall be in accordance with AS 4970-2009 Protection of trees on development sites with the clear establishment of the required Tree Protection Areas (TPA's). If the scope of work allowed within or the extent of the Tree Protection Areas of existing trees is not clear, please refer to the Contract Manager or Project Consulting Arborist for clarification.

Before any site works commence tree protection zones and other measures must be established and conveyed to those all working on the site. The Contractor shall ensure all subcontractors are inducted prior to working on the site. All inductions shall include description and identification of the Tree Protection Zones and the restriction on work and activities with regard to trees.

Damage to roots or degradation of the soil through compaction and/or excavation within TPA's is likely to cause serious damage to the tree. Any work operations required within TPA's must be carried out with extreme care. All trees, palms and other shrubs within TPA's are to be retained unless shown otherwise on the Tree Protection Plan(s). Trees marked for retention shall not be used to display signage, or as fence or cable supports for any reason. No materials stockpiling, chemicals or washout areas are permitted immediately upslope of or within the Tree Protection Area. The washing down of wheel barrows, paint cans/brushes, acids and the like shall not to be done near existing trees as the runoff is very harmful to tree roots.

No fuel powered pumps or generators or air compressors are to be placed within TPA's. No fuel or chemicals shall be stored and no equipment or vehicles shall be serviced or re-fuelled within a TPA.

2. Controlled Construction Access

Construction access points, stockpiling and storage areas shall be clearly identified on site and fenced off where appropriate. Uncontrolled access and parking of vehicles inside TPA's shall be avoided. If access is required through a tree protection area, the access way shall be treated with ground protection.

3. Tree Protection Fencing & Signage

The Tree Protection Plan(s) shows the extent of areas to be fenced and protected. Protection measures shall be certified as adequate by the Project Consulting Arborist. This fencing may form part of the general construction site fencing, where practical. It shall remain in place as long as possible and typically not be removed until the final landscape installation in those areas begins.

All tree protection fencing shall be 1800mm high galvanised chain wire or welded steel mesh. Fencing must be bolted together and secured with the necessary back stays and bracing.

Star pickets with bunting or danger tape shall not constitute acceptable tree protection fencing.

Suitable signage as defined by AS 4970-2009 Appendix C shall be affixed to the external side of the fencing at a spacing of not less than 1 sign per 20 lineal metres of fence.

If fence locations conflict with the proposed works, contact the Project Consulting Arborist and Contract Manager for resolution. No new services (unless under-bored) shall be located within or through the Tree Protection Area.

4. Trunk and Lower Branch Protection

A trunk barrier is to be erected around the circumference of the tree trunk and root buttress where shown. This barrier will consist of two to three 'rings' of 50mm diameter socked ag-line wrapped around tree trunk or branch and the ends cable tied to secure in place. A layer of battens is to be placed over and tight to the ag-lines. The battens are to have a maximum spacing of 50mm. The height of the battens is to be 2 metres or to the height of the first branches. Lower large branches may require the same protection if likely to be damaged by passing vehicles or equipment. Secure battens in place with galvanised steel bracing straps. Do not nail into or otherwise injure the trunk or bark. Battens may be made from any suitable waste timber of similar sizes and depths. All sharp or protruding edges are to be properly covered with tape or similar padding.

5. Works within the TPA's

All work within the root zone of existing trees shall be undertaken with the utmost care. If by necessity a tree requires removal of branches for building or access, pruning shall be done in strict accordance with accepted arboriculture techniques and AS 4373-2007. No rubbish, spoil or new materials shall be placed on the root zone of any existing tree or against their trunks.

6. Ground Protection

If it is proposed to create any access route, or similar, within the TPA of a retained tree, the Contractor shall install rumble boards over the TPA ground surface. No excavation shall be allowed. Contractor shall first place a suitable permeable geotextile to the extent required and then a 100mm thick layer of wood chip mulch or coarse no-fines gravel over the extent to be covered. Then place hardwood boards (minimum 3600 x 200 x 75mm) on their flat edge, side by side, with a 30 - 50mm gap to form a rumble strip. These boards are to be held together with three galvanised metal bracing straps nailed to each board. The two outer straps are to be approximately 200mm in from the ends of the boards. The third strap is to be along the centre line of the boards.

7. Provision of Temporary Irrigation

A temporary irrigation requirement is anticipated for this project. However if accidental damage or other weather extremes dictate and the Project Consulting Arborist considers one is necessary it shall be installed as per the following. A temporary and automated (battery powered timer is sufficient) watering system to be placed within the specified TPAs of the trees nominated to maintain adequate water to the retained trees and help maintain their healthy condition. This shall be a surface mounted 'residential-style' soaker hose and/or similar surface sprinkler systems. It is to be surface visible and spray delivered so that is operation can be easily visible and verified. It should be on a designated supply line, separate from other construction related water supplies to minimise its likelihood of being disconnected.

Typically, during spring and summer months it should be set to run for a minimum of 30 minutes every day, in the early morning. During, autumn and winter months it should be set to run for 1 hour once every week. The operation can be suspended temporarily in periods of extensive and prolonged rain. The system is to remain in place for the duration of construction, or until the Project Consulting Arborist approves it's removal. It may be removed to allow final landscape treatments to proceed. If accidentally disturbed or damaged by construction activities, it is to be reinstated as soon as practicable.

8. Structural Demolition Within TPA's

Project Consulting Arborist shall be on site during all demolition work within the TPA's to monitor and advise on tree protection. Secateurs and a handsaw shall be available to deal with and cleanly cut any exposed roots that have to be cut. Machines with a long reach may be used if they can work from outside TPA's or from protected areas within TPA's. They shall not encroach onto unprotected soil in TPA's.

Debris to be removed from TPA's must be moved across existing hard surfacing or temporary ground protection in a way that prevents compaction and disturbance of soil. Alternatively, it can be lifted out by machines provided this does not disturb TPA's or damage the canopy. If appropriate, leave below ground structures such as footings and disused pipes in place if their removal will cause excessive root disturbance.

When pulling up existing paving the Contractor shall work backwards, lifting demolished paving back onto the existing paving. Roots may be found growing under the pavement and should not be trafficked. Roots growing into existing sub-base should be left and new surface finishes placed over the top without disturbance.

9. Excavations or Trenching within TPA's

Excavation within TPA's shall not be allowed using mechanical equipment such as excavators or backhoes. Excavation within TPA's shall only be carried out carefully by hand taking care not to damage the bark and wood of any roots. Specialist tools for removing soil around roots using compressed air (air spade), or water vacuum extraction shall be an appropriate alternative to hand digging and is the preferred method.

Exposed roots to be removed shall be cut cleanly with a sharp saw or secateurs at the face of the excavation. Roots temporarily exposed must be protected by appropriate covering with damp hessian or sand. Roots greater than 50mm in diameter are to be retained and shall only be cut in exceptional circumstances and only after consultation with the Project Consulting Arborist. Roots greater than 100mm in diameter shall typically not be allowed to be cut and must be worked around.

10. Soft Landscaping Installation

Final trimming and planting shall be judiciously undertaken around trees. All soft landscaping within the tree protection zones will be installed with care to avoid root disturbance from irrigation trenching, lighting installation and the planting of larger plants. Permanent irrigation (if used) shall be installed as spray heads located outside of TPA's and spraying inwards. All other services such as small-scale electrical services shall also be designed and installed to avoid any excavation or trenching around the trees.

No significant excavation or cultivation, especially by rotary hoes or excavators, shall occur within TPA's. Where new designs require the levels to be increased, good quality and permeable top soil shall be used. It should be firmed into place but not over compacted. All areas close to tree trunks shall be kept at the original ground level. Where turf is to be installed tree trunks shall have mulched rings applied rather than grass laid up to the trunk.

The size of the installed plants shall typically be less than 5L pots so that the maximum depth of the new root balls is less than 200mm. Any planting proposed that is larger than this shall be only installed outside of the SRZ and with care to not injure roots while digging planting holes.

11. Canopy Pruning

The Contractor shall prune branches of protected trees only as directed by the Project Consulting Arborist. Pruning is only to be undertaken by a qualified arborist (under the supervision of a person with AQF Level 4 or above). The Project Consulting Arborist is to be present at all times during the pruning work. Work is to be in strict accordance with AS4373 Pruning of Amenity Trees. Do not treat wounds.

12. Root Pruning

Pruning of roots of protected trees shall only be as directed the Project Consulting Arborist. The Tree Contractor shall use only a qualified arborist (AQF Level 4 or above). The Project Consulting Arborist is to be present at all times during the root pruning.

Roots are not to be cut using normal excavation machinery of any sort. This usually results in splitting and massive disturbance well past the intended line of cut. When required to cut roots, use hand methods and sharp hand tools (e.g. secateurs, hand saw) such that the remaining root systems are preserved intact and undamaged. Roots are to be cut back by hand square to the direction of the root travel (or edge of the excavation). Do not cut any tree roots exceeding 40mm diameter unless permitted. Excavations within root zones should be kept open for as short a period as possible. Any excavated face containing roots is to be temporarily supported, where necessary, to prevent soil loss from around the other retained roots.

13. Accidental Tree Damage

Should a tree be accidentally damaged, the Contractor shall immediately notify the Project Consulting Arborist. Timing can be of the essence, particularly with bark injuries, trunk damage or chemical contaminations.

If a branch has been broken, it shall be removed and the damaged end pruned to a suitable branch collar. If the branch has been torn out of the trunk, assessment shall be made and the damage cleaned up by as much as possible without further damage to the tree.

If roots are accidentally disturbed or excavated, any broken, crushed and torn sections shall be exposed and pruned leaving clean cuts to minimise risk of infection by fungal pathogens and promote good conditions for new root growth.

Example image of acceptable tree protection fencing measures to be applied. (1.8m high chainlink fencing with posts driven into ground)



Example image of acceptable tree protection fencing measures to be applied. (1.8m high rigid metal fencing with appropriate lateral bracing)



Example image of acceptable trunk protection battens



Example image of acceptable ground protection rumble boards



NOTE

Refer to the accompanying Arboricultural Impact Assessment Report for full description of trees, measurements and methods used to assess the trees, and proposed tree protection measures.



ARTERRA DESIGN PTY LTD ABN 40 069 552 610
SUITE 602 / 51 RAWSON STREET, EPPING, NSW 2121
P 02 9957 2466 F 02 9957 3977 W ARTERRA.COM.AU



www.dialbeforeyoudig.com.au



A		For Information	RWS	25/6/24
REVISION	DESCRIPTION		CHWD	DATE

PROJECT & CLIENT

SummitCare - Jamisontown
ILUs and RAC

SummitCare
DRAWING TITLE

Tree Protection
Specifications

Project No	: 21_29	
Designed	: RWS/CLB	
Drawn	: RWS/CLB/BT	
Scale	: N/A	

DRAWING NUMBER	REVISION
T-03	A