

TREE RETENTION PLAN NOTES

1 OVERVIEW

- 1.1 This Tree Retention Plan (TRP) has been prepared in accordance with the Brisbane City Council City Plan 2014, Schedule 6 Planning Scheme Policies, Biodiversity Areas Planning Scheme Policy (SC6.3) and provides information, guidance and advice for development assessment of the property 62 Kraft Road, Pallara Lot: 106 on RP87803. Area: 1.615 ha.
- 1.2 Brisbane City Council Local City Plan 2014, Zoning Overlay identifies 62 Kraft Road, Pallara as Low Density residential. The site terrain is flat. It contains scattered individual and small groups of trees throughout the property.
- 1.3 Brisbane City Council, City Plan 2014 identifies an area towards the rear of the property contains vegetation mapped as (see Key Plan)
 - High Ecological Significance Strategic (HESS)
 - Matters of State Environmental Significance (MSES)
- 1.3.1 Brisbane City Council Community Maps Natural Asset Local Laws (NALL) has the following mapping over the entire site (not shown)
 - Significant Native Vegetation (SNV)
 - Significant Urban Vegetation (SUV)

2 VEGETATION SURVEY

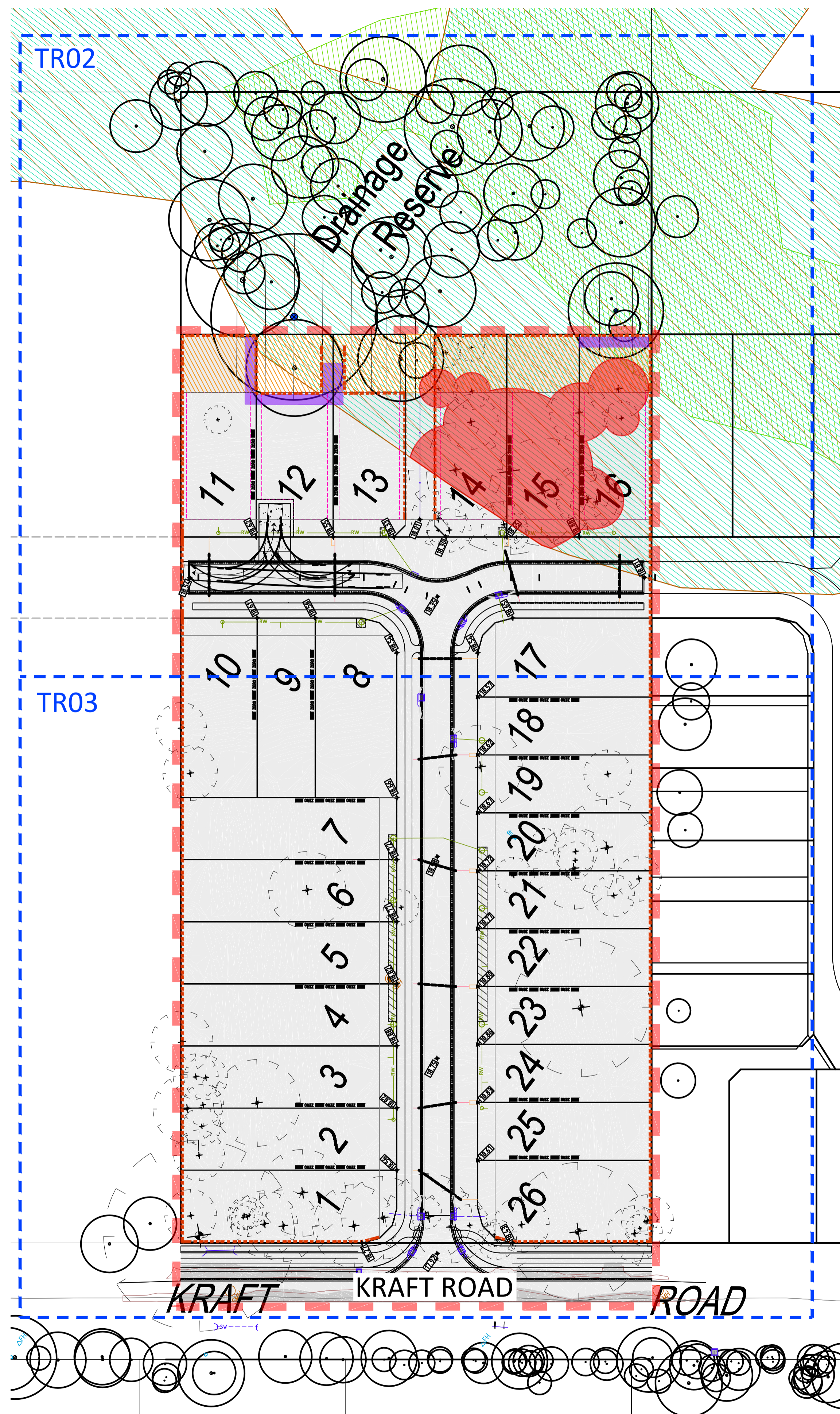
- 2.1 This TRP includes a Tree Survey Plan (accurate to +/- 100mm) prepared by a qualified Surveyor showing the location of on-site vegetation 150mm DBH or greater and clearly identifies trees to be retained and those to be removed. The plan includes surveyed existing services and proposed development layout, preliminary earthworks for the development, levels, the location of proposed services and proposed external works to the site.

3 ARBORICULTURAL ASSESSMENT

- 3.1 A Visual Tree Assessment (VTA) based on Mattheck, C. Breloer, H., (1994) was carried out on the trees on 05-07-2022 by an Australian Qualification Framework Level 5 Arborist (AQF5).
- 3.2 The attached Tree Schedule includes the following information:
 - Botanical species name, Height (m), Crown diameter (m); Trunk diameter at 1.4m (DSH)
 - Notional Root Zones (NRZ), calculated in accordance with the Australian Standard, Protection of Trees on Development Sites (AS4970-2025) guidelines;
 - Current health based on primary and secondary growth indicators, structural growth features / anomalies and visible NRZ disturbance;
 - Obvious habitat features evident, including hollows, nests and fauna scratch marks;
 - Trees recognised as preferred koala habitat or food trees; Eucalyptus, Corymbia, Melaleuca, Lophostemon or Angophora species.
- 3.3 An Arborist (AQF5) has been consulted and has provided appropriate tree management recommendations relating to NRZ incursions and the use of tree sensitive construction techniques to minimise impacts to trees.
- 3.4 The tree management strategies for this development include the use of a Structural Cells to maintain tree health and stability by minimising soil compaction & root damage. The structural cell concept has been developed in consultation with various stakeholders including qualified Engineers, Arborists and Landscape Architects and has been designed to provide a permanent, structural and non-clogging void between a compacted fill layer and the existing soil profile within the NRZ. The Cell layer will provide a permeable, load bearing layer between the compacted fill and the existing soil profile that will reduce soil compaction and minimise root damage within the NRZ but will continue to allow water movement and gaseous exchange within the soil profile beneath the structural cells.

4 TREE AND VEGETATION MANAGEMENT

- 4.1 Tree and/or Vegetation Protection measures are to be installed in accordance with the Australian Standard, Protection of Trees on Development Sites (AS 4970-2025) guidelines and positioned as indicated on this plan prior to the commencement of any works. Where identified this includes appropriate canopy, trunk and ground protection for individual trees.
 - 4.2 All Tree and/or Vegetation Protection is to be maintained and remain in place until the completion of all site works (refer to tree protection detail on this plan set). Repositioning or modification (moving or dismantling) is to be authorised by the Project Arborist (AQF5) and the site superintendent.
 - 4.3 Tree and/or Vegetation Protection Zone works are proposed to be carried out using tree sensitive construction techniques (such as Horizontal-Directional Drilling (HDD) and/or manual excavation) to minimise damage to tree roots and are to be authorised and carried out under the supervision and direction of the Project Arborist (AQF5). Manual excavation may include hand digging, pneumatic or hydraulic tools and Hydro-Vac excavation.
 - 4.4 Where tree protection is installed and NRZ works are carried out using tree sensitive construction techniques under the direction and supervision of an appropriate qualified and experienced arborist (AQF5), the longevity of the retained trees and vegetation can be maintained.
- ## 5 ENVIRONMENTAL OFFSETS
- 5.1 Indicative Environmental Offsets has been calculated at 812m2. Offset area will be confirmed at OPW.



KEY PLAN

LEGEND

- TREES TO BE RETAINED AND PROTECTED
- TREES TO BE RETAINED AND REQUIRING SUPERVISION BY ARBORIST ONSITE DUE TO SERVICES / CUT & FILL
- TREES FOR REMOVAL REFER TO VEGETATION ASSESSMENT SCHEDULE
- BCC OVERLAY HIGH ECOLOGICAL SIGNIFICANCE STRATEGIC (HESS)
- BCC OVERLAY MATTERS OF STATE ENVIRONMENTAL SIGNIFICANCE (MSES)
- 10m BUSHFIRE BUFFER
- FILL REFER CIVIL
- CUT REFER CIVIL
- ENVIRONMENTAL OFFSET 812m2
- EXTENT OF WORKS

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ISSUE	DETAILS	DATE	DES	DC	QA
F	FOR APPROVAL	2026-05-27	CS	SI	RW
E	FOR APPROVAL	2026-03-19	SI	SI	RW
D	FOR APPROVAL	2025-07-04	NH	RW	RW
C	PRELIMINARY	2022-08-31	NH	RW	GE
B	PRELIMINARY	2022-08-26	AS	RW	GE
A	PRELIMINARY	2022-08-19	AS	RW	GE

PROJECT TITLE
 RESIDENTIAL SUBDIVISION
 62 KRAFT ROAD, PALLARA

CLIENT
 AUSBUILD PTY LTD.

PLAN TITLE
 TREE RETENTION PLAN
 COVER SHEET

62 KRAFT ROAD, PALLARA

APPROVAL ISSUE

LEGEND

- TREES TO BE RETAINED AND PROTECTED
- TREES TO BE RETAINED AND REQUIRING SUPERVISION BY ARBORIST ONSITE DUE TO SERVICES / CUT & FILL
- TREES FOR REMOVAL REFER TO VEGETATION ASSESSMENT SCHEDULE
- 10m BUSHFIRE BUFFER
- SERVICE Stormwater Location
- SERVICE Water Location
- SERVICE Sewer Location
- FILL REFER CIVIL
- CUT REFER CIVIL
- RETAINING WALL REFER CIVIL
- TREE PROTECTION FENCE REFER TO DETAIL
- STRUCTURAL CELL REFER MANUFACTURERS DETAIL

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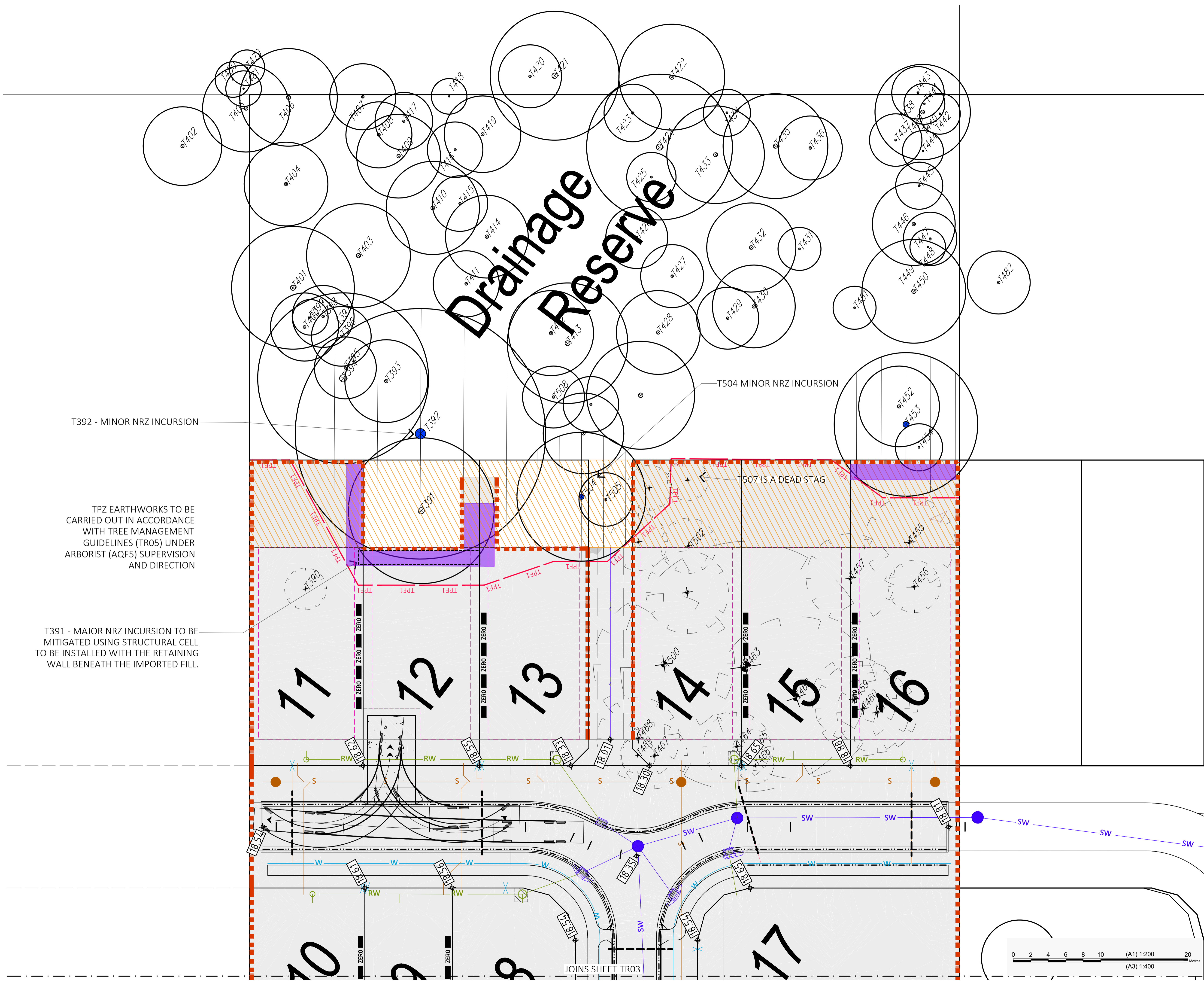
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 62 KRAFT ROAD, PALLARA

CLIENT
 AUSBUILD PTY LTD.

PLAN TITLE
 TREE RETENTION PLAN

SCALE: 1:200 @ A1
 DOCUMENT NUMBER: B3602L A7_DA19 TR02 F
 SHEET NUMBER: A7A STAGE: PLAN ISSUE



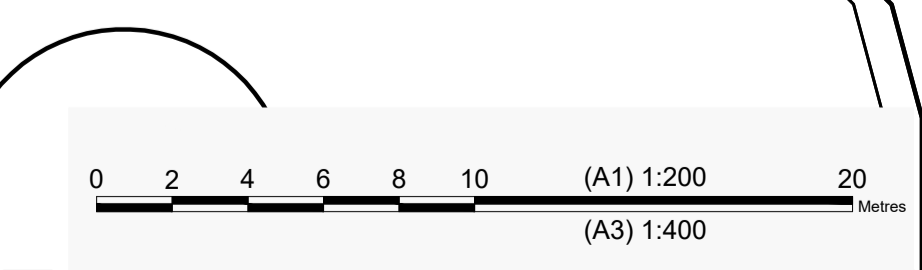
T392 - MINOR NRZ INCURSION

TPZ EARTHWORKS TO BE CARRIED OUT IN ACCORDANCE WITH TREE MANAGEMENT GUIDELINES (TRO5) UNDER ARBORIST (AQF5) SUPERVISION AND DIRECTION

T391 - MAJOR NRZ INCURSION TO BE MITIGATED USING STRUCTURAL CELL TO BE INSTALLED WITH THE RETAINING WALL BENEATH THE IMPORTED FILL.

T504 MINOR NRZ INCURSION

T507 IS A DEAD STAG



JOINS SHEET TR03

LEGEND

- TREES TO BE RETAINED AND PROTECTED
- TREES TO BE RETAINED AND REQUIRING SUPERVISION BY ARBORIST ONSITE DUE TO SERVICES / CUT&FILL
- TREES FOR REMOVAL REFER TO VEGETATION ASSESSMENT SCHEDULE
- 10m BUSHFIRE BUFFER
- SERVICE Stormwater Location
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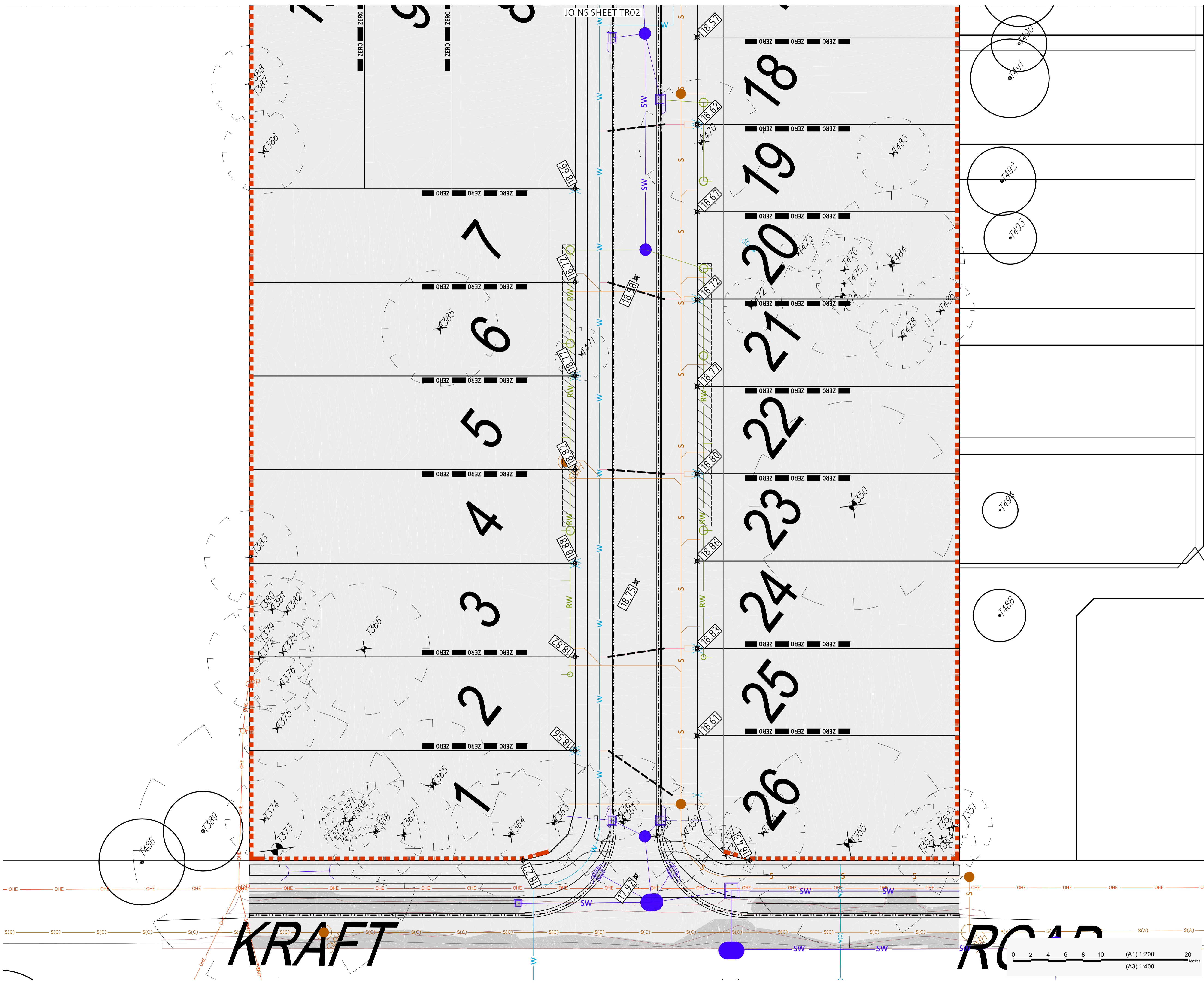
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SCALE: 1:200 @ A1
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JOINS SHEET TR02

KRAFT

RC15

VEGETATION ASSESSMENT SCHEDULE

Tree ID	Species	Height (m)	Spread (m)	DBH (mm)	Health	Structure	Notes	Action
T350	<i>Eucalyptus spp</i>	34	16	995	Average	Below Average	Live Limb Loss 580mm 2nd order/ Scratch	Remove
T351	<i>Melaleuca quinquenervia</i>	10	8	375	Below Average	Below Average	Suppressed	Remove
T352	<i>Lophostemon suaveolens</i>	6	4	185	Below Average	Poor	Suppressed	Remove
T353	<i>Melaleuca quinquenervia</i>	20	10	400	Average	Average		Remove
T354	Dead	8	6	200	Dead	Poor	Trunk angle <20/ Heaving	Remove
T355	<i>Pinus elliotii</i>	16	16	995	Average	Average	Dead Wood <100mm (5%)/ Weed	Remove
T356	<i>Schefflera actinophylla</i>	7	5	400	Average	Average	Weed	Remove
T357	<i>Grevillea robusta</i>	10	4	175	Average	Average		Remove
T358	<i>Corymbia torelliana</i>	6	10	285	Below Average	Below Average	Suppressed	Remove
T359	<i>Lophostemon suaveolens</i>	9	6	300	Average	Average	Bifurcates at ground	Remove
T360	<i>Pinus elliotii</i>	37	14	525	Average	Average	Arboreal termites (Not habitat)= not hollow	Remove
T361	<i>Pinus elliotii</i>	36	14	625	Average	Below Average	Deadwood<120mm (2nd)	Remove
T362	<i>Melaleuca quinquenervia</i>	8	5	230	Average	Average	Suppressed	Remove
T363	<i>Pinus elliotii</i>	37	16	590	Average	Average		Remove
T364	<i>Pinus elliotii</i>	36	16	595	Average	Average		Remove
T365	<i>Eucalyptus tereticornis</i>	32	16	625	Below Average	Below Average	Hollow/ Trunk angle <10 degrees/ 1st order limb loss	Remove
T366	<i>Eucalyptus tereticornis</i>	30	14	625	Average	Average	Scratch	Remove
T367	<i>Pinus elliotii</i>	36	16	515	Average	Average		Remove
T368	<i>Corymbia tessellaris</i>	36	10	475	Average	Average		Remove
T369	<i>Pinus elliotii</i>	12	4	195	Average	Average		Remove
T370	<i>Corymbia ptychocarpa</i>	16	8	285	Average	Average		Remove
T371	<i>Lophostemon suaveolens</i>	10	5	215	Average	Below Average	1x sided/suppressed	Remove
T372	Stag	6	1	170	Dead	Poor		Remove
T373	<i>Eucalyptus tereticornis</i>	40	12	1375	Below Average	Below Average	Vine/1st Order Limb Loss / Arboreal termites/ Hollow	Remove
T374	<i>Angophora leiocarpa</i>	15	8	375	Below Average	Poor	Suppressed/ Arboreal termites/ Apical loss	Remove
T375	<i>Araucaria heterophylla</i>	16	8	365	Average	Average		Remove
T376	<i>Araucaria heterophylla</i>	15	7	275	Average	Average		Remove
T377	<i>Eucalyptus tereticornis</i>	28	12	495	Average	Average		Remove
T378	<i>Pinus elliotii</i>	17	8	295	Average	Average		Remove
T381	<i>Melaleuca quinquenervia</i>	10	8	325	Average	Average		Remove
T382	<i>Araucaria heterophylla</i>	20	8	315	Average	Average		Remove
T383	<i>Eucalyptus siderophloia</i>	26	10	445	Average	Average		Remove
T385	<i>Corymbia intermedia</i>	15	8	555	Average	Average		Remove
T386	<i>Melaleuca styphelioides</i>	10	6	395	Average	Average		Remove
T388	<i>Corymbia intermedia</i>	15	8	365	Average	Average		Remove
T389	<i>Pinus elliotii</i>	19	8	380	Average	Average		Retain
T390	Stag	8	1	200	Dead	Poor		Remove
T391	<i>Eucalyptus tereticornis</i>	28	16	695	Below Average	Below Average	1st Order Live Limb Loss / Dieback 55%/ Hollow/ scratch	Retain
T392	<i>Eucalyptus tereticornis</i>	34	16	1195	Below Average	Below Average	1st Order Live Limb Loss / Hollow/ scratch	Retain
T393	<i>Eucalyptus siderophloia</i>	24	12	395	Average	Average	Vine/ phototropic	Retain
T394	<i>Eucalyptus tereticornis</i>	36	16	815	Average	Average	Scratch	Retain
T395	<i>Eucalyptus siderophloia</i>	18	8	295	Average	Average		Retain
T396	<i>Eucalyptus siderophloia</i>	22	8	285	Average	Average		Retain
T398	<i>Melaleuca quinquenervia</i>	10	6	295	Average	Average		Retain
T399	Stump	10	1	170	Dead	Below Average		Retain
T400	<i>Eucalyptus siderophloia</i>	18	6	325	Average	Below Average	Vine/ suppressed	Retain
T401	<i>Eucalyptus tereticornis</i>	40	16	585	Average	Average	Scratch	Retain
T402	<i>Eucalyptus siderophloia</i>	20	6	375	Poor	Poor	Apical loss	Retain
T403	<i>Eucalyptus moluccana</i>	30	8	495	Poor	Below Average	Live Limb Loss 1st order/ Epicormic 20%	Retain
T404	Stag	15	1	400	Dead	Below Average		Retain
T405	<i>Melaleuca quinquenervia</i>	10	6	415	Poor	Poor	Apical loss/ Hollow	Retain
T406	<i>Melaleuca quinquenervia</i>	10	6	465	Average	Average	Vine	Retain
T407	<i>Melaleuca quinquenervia</i>	12	5	315	Average	Average		Retain
T408	<i>Eucalyptus tereticornis</i>	30	8	315	Average	Average		Retain
T409	Stag	20	1	400	Dead	Below Average		Retain
T410	<i>Melaleuca quinquenervia</i>	20	8	445	Average	Average		Retain
T411	<i>Eucalyptus moluccana</i>	25	6	395	Average	Average		Retain
T412	<i>Eucalyptus siderophloia</i>	40	14	405	Average	Average	Vine	Retain
T413	<i>Eucalyptus moluccana</i>	30	16	575	Average	Average		Retain
T414	<i>Corymbia henryi</i>	25	8	315	Below Average	Poor	Trunk angle 40 deg/ Lower Trunk Wound / Dieback 15%	Retain
T415	<i>Eucalyptus tereticornis</i>	25	5	265	Average	Average		Retain
T416	<i>Eucalyptus tereticornis</i>	25	5	265	Average	Average		Retain
T417	<i>Eucalyptus tereticornis</i>	22	4	275	Average	Below Average	1x side canopy	Retain
T418	<i>Lophostemon suaveolens</i>	8	4	170	Average	Average		Retain
T419	<i>Eucalyptus siderophloia</i>	25	8	365	Average	Average		Retain
T420	Stag	25	1	300	Dead	Below Average		Retain
T421	<i>Eucalyptus siderophloia</i>	36	16	615	Average	Below Average	Lower Trunk Wound	Retain
T422	<i>Eucalyptus siderophloia</i>	34	12	505	Average	Average		Retain
T423	<i>Eucalyptus tereticornis</i>	18	6	275	Average	Average		Retain
T424	<i>Eucalyptus moluccana</i>	35	16	695	Below Average	Below Average	Lower Trunk Wound/ phototropic / 1st order Limb Loss 1st/ Hollow	Retain
T425	<i>Corymbia tessellaris</i>	15	5	235	Average	Below Average	Suppressed	Retain
T426	<i>Eucalyptus siderophloia</i>	26	8	295	Average	Average		Retain
T427	Stag	15	1	300	Dead	Below Average		Retain
T428	Stag	30	1	400	Dead	Below Average		Retain
T429	<i>Eucalyptus moluccana</i>	20	6	295	Average	Average	Nest	Retain
T430	<i>Eucalyptus moluccana</i>	28	8	395	Average	Average	Hollow	Retain
T431	<i>Eucalyptus moluccana</i>	15	6	205	Average	Average		Retain
T432	<i>Eucalyptus tereticornis</i>	40	5	425	Average	Average	Scratch	Retain
T433	<i>Eucalyptus moluccana</i>	25	8	465	Below Average	Below Average	Live Limb Loss 1st	Retain
T434	<i>Corymbia intermedia</i>	12	6	225	Average	Average		Retain
T435	Stag	25	1	500	Dead	Below Average	Hollow	Retain
T436	<i>Eucalyptus moluccana</i>	15	5	305	Average	Average		Retain
T437	Stag	8	1	250	Dead	Below Average	Hollow	Retain
T439	<i>Angophora leiocarpa</i>	32	16	455	Average	Average		Retain
T441	<i>Eucalyptus siderophloia</i>	10	4	195	Average	Below Average	Suppressed	Retain
T442	<i>Angophora leiocarpa</i>	18	8	195	Average	Average		Retain

Tree ID	Species	Height (m)	Spread (m)	DBH (mm)	Health	Structure	Notes	Action
T443	Stump	10	1	250	Dead	Below Average		Retain
T444	<i>Eucalyptus spp</i>	15	5	195	Average	Average		Retain
T445	<i>Eucalyptus moluccana</i>	17	8	225	Average	Average		Retain
T446	<i>Eucalyptus moluccana</i>	28	8	395	Average	Below Average	Lower Trunk Wound	Retain
T447	<i>Corymbia intermedia</i>	25	4	255	Average	Average		Retain
T448	<i>Eucalyptus moluccana</i>	12	5	170	Average	Below Average	Suppressed	Retain
T450	<i>Eucalyptus siderophloia</i>	28	12	495	Average	Average	Bifurcates @ 1.6/ Arboreal Termites	Retain
T451	<i>Corymbia intermedia</i>	25	8	205	Average	Average		Retain
T452	<i>Corymbia intermedia</i>	25	12	385	Average	Below Average	Trunk angle <10 / suppressed/ phototropic	Retain
T453	<i>Corymbia intermedia</i>	40	16	685	Average	Average		Retain
T454	<i>Eucalyptus moluccana</i>	16	6	225	Average	Average	Lower canopy	Retain
T455	<i>Eucalyptus siderophloia</i>	34	16	435	Average	Average	Phototropic	Remove
T456	Stag	15	1	250	Dead	Below Average		Remove
T457	<i>Eucalyptus siderophloia</i>	32	14	425	Average	Average		Remove
T459	<i>Eucalyptus moluccana</i>	22	10	405	Average	Below Average	Suppressed	Remove
T460	Stag	20	8	450	Dead	Below Average	Hollow	Remove
T461	<i>Eucalyptus moluccana</i>	18	8	385	Average	Average	Trunk angle <10	Remove
T462	<i>Eucalyptus tereticornis</i>	38	16	775	Average	Average	Scratch	Remove
T463	<i>Eucalyptus moluccana</i>	35	14	1195	Poor	Poor	Live Limb Loss 1st order/ Lower Trunk Wound/ Fruiting body/ hollow	Remove
T464	<i>Corymbia torelliana</i>	12	6	325	Average	Average		Remove
T465	<i>Corymbia torelliana</i>	10	6	195	Average	Average		Remove
T466	<i>Corymbia torelliana</i>	8	4	170	Average	Average		Remove
T467	<i>Corymbia intermedia</i>	12	6	315	Average	Below Average	1 x side canopy/ Arboreal termites	Remove
T468	<i>Eucalyptus tereticornis</i>	18	10	395	Average	Average	Scratch	Remove
T469	<i>Eucalyptus siderophloia</i>	6	4	170	Average	Average		Remove
T470	<i>Eucalyptus siderophloia</i>	36	14	600	Average	Average	Bifurcates at 1.4m/Co-dominant	Remove
T471	<i>Melaleuca quinquenervia</i>	7	5	255	Average	Average		Remove
T472	<i>Melaleuca quinquenervia</i>	7	7	265	Poor	Poor	Apical loss/ Dieback 40%	Remove
T473	<i>Lophostemon suaveolens</i>	8	3	175	Average	Below Average	Lopped	Remove
T474	<i>Eucalyptus siderophloia</i>	30	16	585	Average	Average	Arboreal termites	Remove
T475	<i>Corymbia intermedia</i>	14	8	265	Average	Below Average	Suppressed	Remove
T476	<i>Eucalyptus tereticornis</i>	18	8	315	Average	Average		Remove
T478	<i>Eucalyptus moluccana</i>	17	8	305	Below Average	Average	Dieback	Remove
T479	<i>Eucalyptus tereticornis</i>	10	4	170	Average	Average		Retain
T480	<i>Eucalyptus siderophloia</i>	11	4	170	Average	Average		Retain
T481	<i>Lophostemon suaveolens</i>	8	3	170	Average	Average		Retain
T482	Stag	15	1	300	Dead	Below Average		Retain
T483	<i>Pinus elliotii</i>	15	8	345	Average	Average		Remove
T484	<i>Eucalyptus tereticornis</i>	40	16	695	Average	Poor	Lower trunk bulge/Bifurcates @2-5/ scratch	Remove
T485	<i>Corymbia intermedia</i>	12	6	325	Below Average	Poor	Fruiting body / Lower Trunk Wound	Remove
T486	<i>Pinus elliotii</i>	20	9	410	Average	Average		Retain
T487	<i>Eucalyptus tereticornis</i>	14	6	300	Average	Average		Retain
T488	Stag	8	6	250	Dead	Below Average		Retain
T489	<i>Eucalyptus moluccana</i>	15	6	365	Average	Average		Retain
T490	<i>Eucalyptus tereticornis</i>	20	5	265	Average	Average		Retain
T491	<i>Eucalyptus tereticornis</i>	25	8	375	Average	Average		Retain
T492	<i>Eucalyptus moluccana</i>	18	6	325	Average	Average	1x side canopy	Retain
T493	<i>Eucalyptus moluccana</i>	12	4	250	Average	Average		Retain
T494	<i>Morus alba</i>	4	3	170	Average	Average	Multistem	Retain
T500	<i>Eucalyptus moluccana</i>	32	16	675	Average	Average	Hollow	Remove
T501	<i>Corymbia intermedia</i>	22	8	395	Average	Average	Arboreal termites/Vine	Remove
T502	<i>Eucalyptus siderophloia</i>	28	8	265	Average	Average		Remove
T503	<i>Melaleuca quinquenervia</i>	12	6	275	Average	Average		Remove
T504	<i>Eucalyptus moluccana</i>	30	10	615	Average	Average		Retain
T505	<i>Eucalyptus siderophloia</i>	20	6	255	Average	Below Average	Trunk 10 degrees/Phototropic/Suppressed	Retain
T506	<i>Eucalyptus siderophloia</i>	12	4	215	Average	Average		Retain
T507	Stag	16	4	195	Dead	Below Average		Remove
T508	<i>Eucalyptus tereticornis</i>	15	6	295	Average	Average		Retain
T509	<i>Eucalyptus siderophloia</i>	16	6	265	Average	Average		Retain
T510	<i>Eucalyptus moluccana</i>	36	16	515	Below Average	Below Average	Lower trunk wound/Suckers	Retain
T511	Stag	18	6	385	Dead	Below Average		Retain



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F	FOR APPROVAL	2026-05-27	CS	SI	RW
E	FOR APPROVAL	2026-03-19	SI	SI	RW
D	FOR APPROVAL	2025-07-04	NH	RW	RW
C	PRELIMINARY	2022-08-31	NH	RW	GE
B	PRELIMINARY	2022-08-26	AS	RW	GE
A	PRELIMINARY	2022-08-19	AS	RW	GE
ISSUE	DETAILS	DATE	DES	DC	QA

PROJECT TITLE
RESIDENTIAL SUBDIVISION
62 KRAFT ROAD, PALLARA

CLIENT
AUSBUILD PTY LTD.

TREE RETENTION PLAN
SCHEDULES

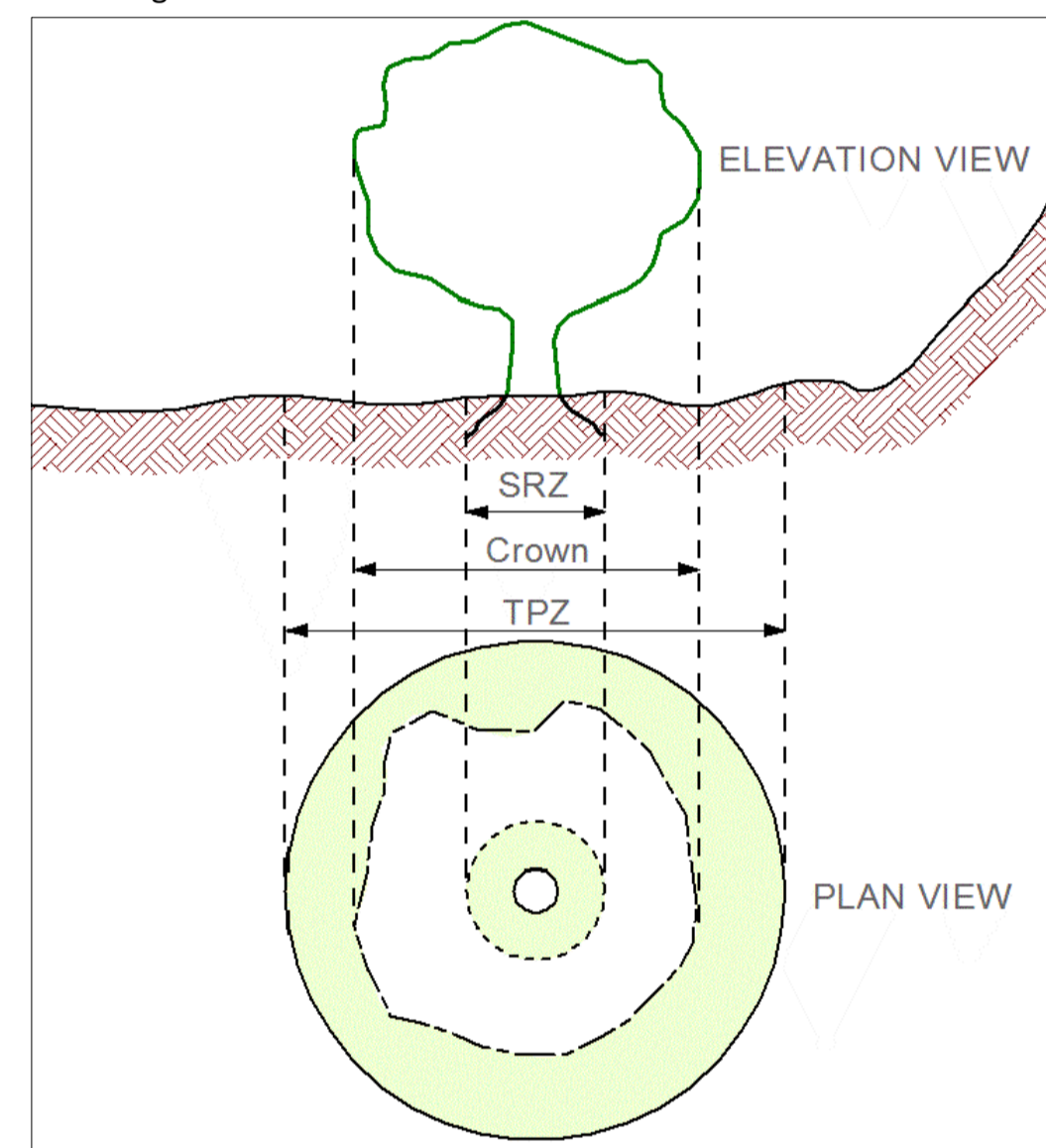
TREE MANAGEMENT GUIDELINES

1. GENERAL -

- All works within the Tree Protection Zone (NRZ) of a tree identified to be retained (including any tree located on adjoining property), is to be carried out under the supervision and direction of the Project Arborist (AQF5).
- The 'Project Arborist' is to be suitably experienced and competent in arboriculture, having acquired through training, qualification (minimum Australian Qualification Framework Level 5 (AQF5), Diploma of Horticulture (Arboriculture) and/or equivalent experience, the knowledge and skills enabling that person to perform the tasks required by the Australian Standard, Protection of Trees on Development Sites (AS 4970-2009).
- All NRZ works are to be carried out in accordance with the Australian Standard, Protection of Trees on Development Sites (AS 4970-2009) guidelines.
- Additional NRZ construction activities not specified and/or outside the parameters of the Approved Plans are to be assessed and authorised by the Project Arborist (AQF5).
- The filling or stockpiling of building materials, parking of vehicles or plant, disposal of cement slurry, waste water or other contaminants or any other unauthorised activity that will disturb the soil profile or damage a tree is NOT permitted within the identified NRZ of any tree to be retained.

2. TREE PROTECTION ZONE (NRZ) -

- All NRZ's identified on the Approved Plans are to be protected in accordance with AS 4970-2009 guidelines and/or as directed by the Project Arborist (AQF5)
- Structural Root Zones are not to be disturbed and are to be protected while work is being carried out within a NRZ.



01 FIGURE 1 TREE PROTECTION ZONE
xx01 Not to Scale

3. SIGNAGE -

- Signs identifying the NRZ is to be attached to all Tree Protection Fencing and be clearly visible within the development site.
- The lettering on the signage is to comply with AS 1319.



02 FIGURE 2 ARBORIST SIGNAGE
xx01 Not to Scale

4. NRZ ACCESS AND MAINTENANCE -

TREES -

- Access - Machinery/personnel are to remain outside the perimeter of any NRZ unless authorised by the Project Arborist (AQF5) & only where appropriate Canopy, Ground & Trunk protection is installed.
- Inspections - The Project Arborist (AQF5) is to carry out regular inspections of the NRZ's to ensure tree protection measures are maintained & compliant with the approved VMP.
- Mulching - Where directed by the Project Arborist the area within the NRZ is to be mulched using material that complies with AS 4454. The mulch is to be maintained to a depth of 150-300mm. Where the existing landscape within the NRZ is to remain unaltered (e.g. native forest, garden beds or turf) mulch may not be required.
- Watering - Soil moisture levels are to be regularly monitored by the Project Arborist (AQF5). Temporary irrigation or watering may be required within the NRZ. Where directed by the Project Arborist a watering program is to be implemented.

5. TREE PROTECTION FENCING (TPF)-

TREES -

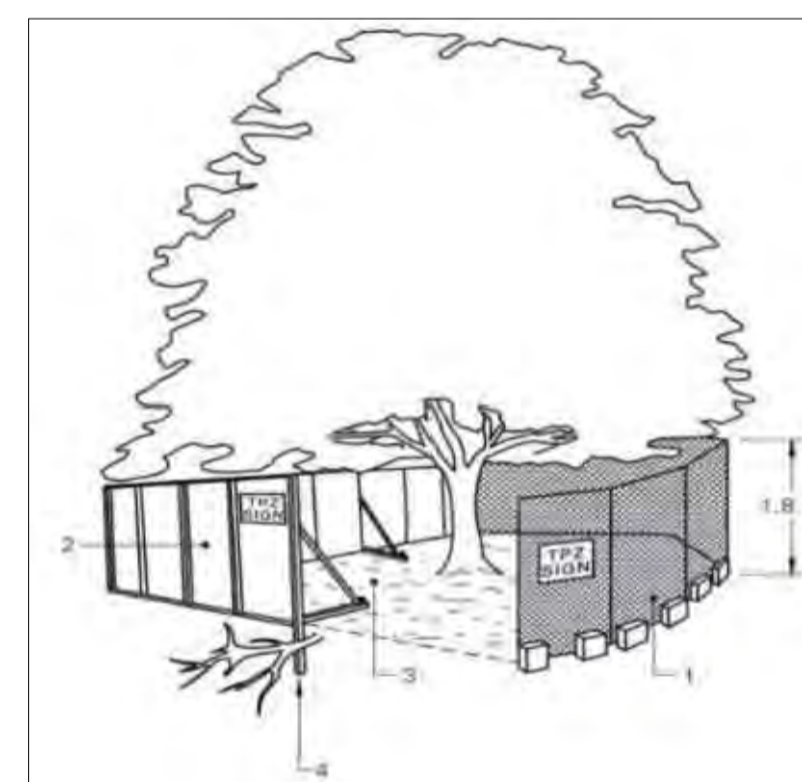
- TPF is to be installed in accordance with the Australian Standard, Protection of Trees on Development Sites (AS 4970-2009) guidelines.
- Alterations and/or repositioning of the TPF is to be authorised by the Project Arborist (AQF5) prior to the fencing being moved.
- Where required erosion control devices such as silt fencing are to be installed with Tree Protection Fencing to prevent siltation and or erosion within the Tree Protection Zones.
- TPF positions are to be marked out by a Registered Surveyor and are to remain in place until all site work has been completed.



03 FIGURE 3 TPF1
xx01
1800mm high steel mesh fence. Installed following survey setout fence to be supported and clamped.



04 FIGURE 4 TPF2
xx01
Orange mesh with steel staking to be used in support locations and where ground conditions limit the access for TPF1. Fence line to be based on surveyed positioning.



05 FIGURE 5 AUSTRALIAN STANDARD TPF
xx01

®Australian Standard, Protection of Trees on Development Sites, (AS.4970-2009)

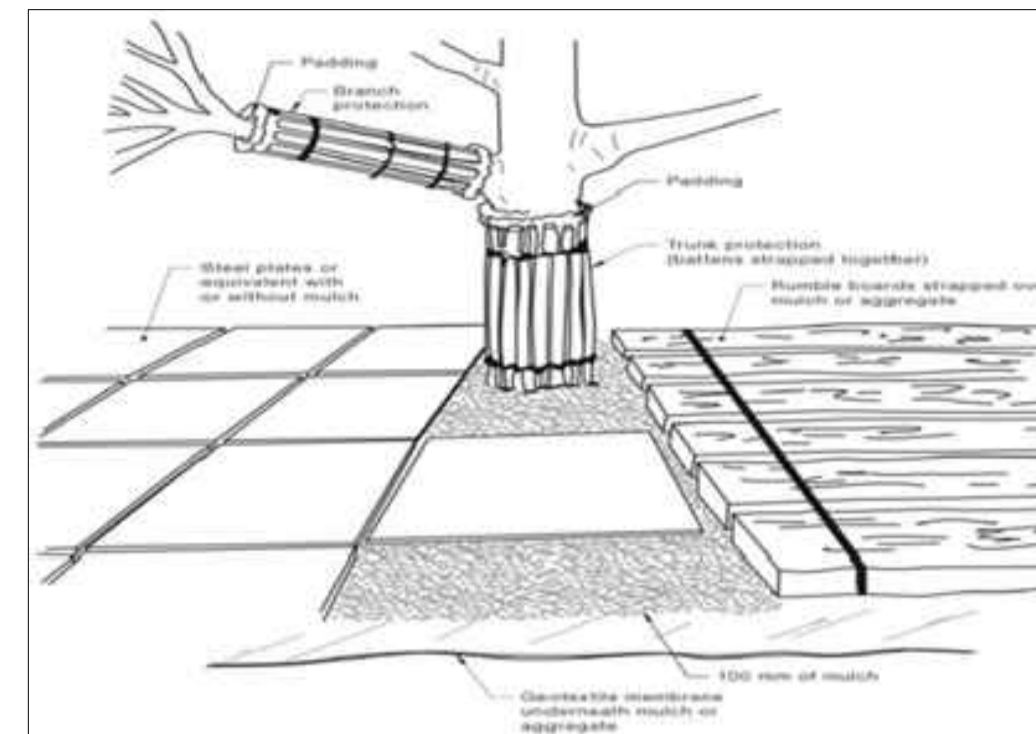
- TPF is to consist of 1.8m chain wire mesh panels with shade cloth (if required) attached, held in place with concrete feet.
- Alternative plywood or wooden paling fence panels. This fencing material also prevents building materials or soil entering the NRZ.
- Mulch installation across surface of NRZ (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 NRZ.
- Bracing is permissible within the NRZ. Installation of supports should avoid damaging roots.

6. TRUNK/BRANCH PROTECTION -

TREES -

- Where machinery or part of a machine is carrying out work within a NRZ, the trunk is to be protected by two metre (2m) length hard wood timbers evenly spaced at 100mm - 150mm centres secured together with 2mm galvanised wires. The timbers are to be strapped to the trunk (NOT fixed in any way) to avoid mechanical injury or damage.

Notes: For trunk and branch protection use boards & padding that will prevent damage to bark. Boards are to be strapped to trees, NOT nailed or screwed.

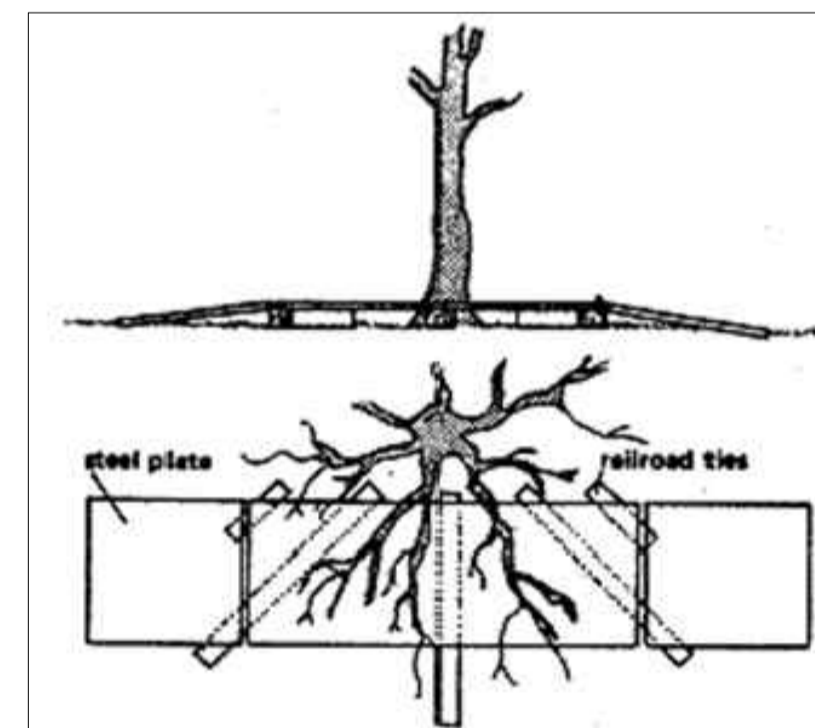


06 FIGURE 6 TRUNK & BRANCH PROTECTION
xx01 NOT TO SCALE

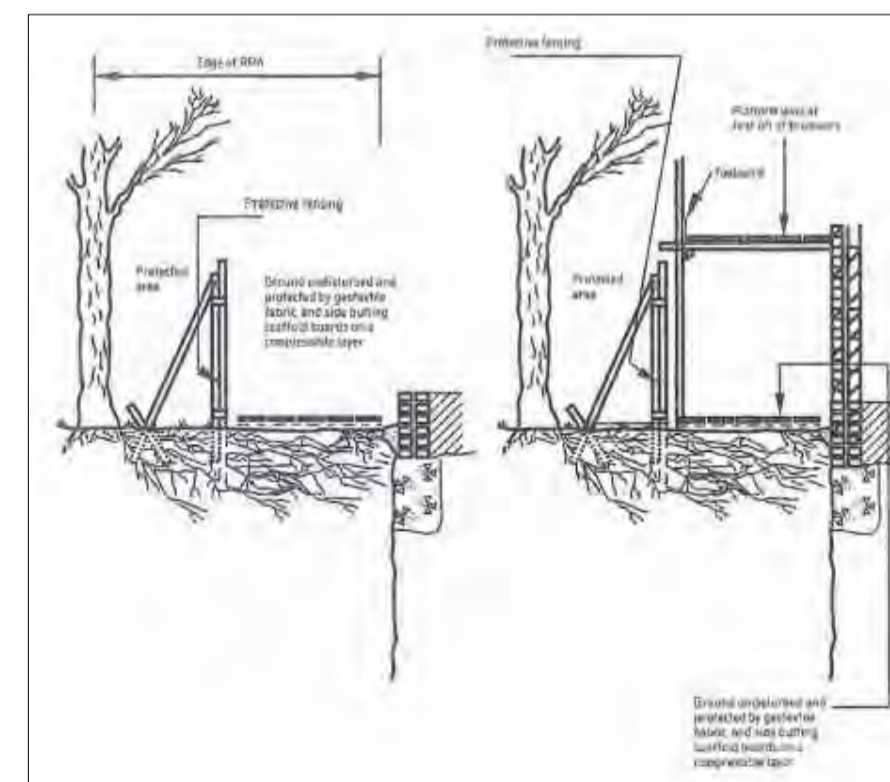
7. GROUND PROTECTION -

TREES -

- Where temporary machinery access is required ground protection is to be provided to minimise root damage and soil compaction within the NRZ.
 - Protection may include measures such as a geotextile fabric beneath a layer of mulch or aggregate below rumble boards or steel plates.
 - Rumble-boards and/or steel plates will be positioned to minimise root damage and be of appropriate thickness to minimise soil compaction. Rumble boards will be secured over mulch or gravel to reduce the impacts of soil disturbance.
 - Mulch and/or aggregate is to be of appropriate depth & size to reduce impacts.
- Notes: Rumble boards are to be of suitable thickness and dimensions to prevent soil compaction & root damage.



07 FIGURE 7 GROUND PROTECTION
xx01

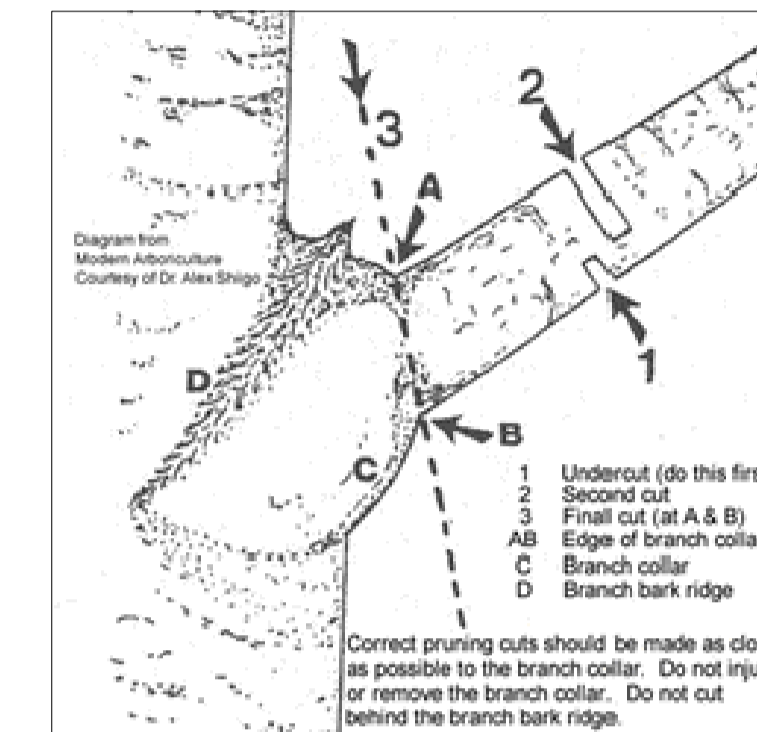


08 FIGURE 8 GROUND PROTECTION
xx01

8. BRANCH/ROOT PRUNING & TREE REMOVAL -

TREES -

- All branch pruning and/or tree removal work is to be carried out by a certified Tree Worker with a minimum AQF Level 3 qualification or equivalent in Arboriculture.
- All pruning is to be in accordance with Australian Standard, Pruning of Amenity Trees, (AS 4373-2007).
- All root pruning is to be carried out under the direction and supervision of the Project Arborist (AQF5)
- Exposed roots to be removed are to be cut cleanly with a sharp blade saw or secateurs 100mm-200mm behind the final face of the excavation.
- Roots greater than 40mm in diameter are to be retained.
- Tree removal - Tree removal within the identified NRZ of a tree to be retained is to be cut to ground using hand tools and the stump is to be ground out to 200mm depth unless otherwise directed by the Project Arborist (AQF5).



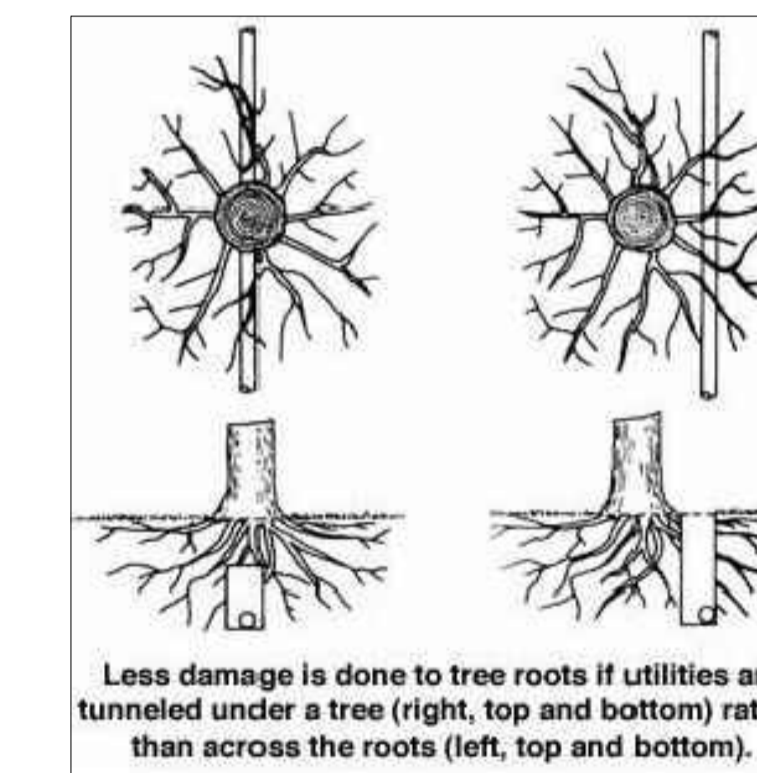
09 FIGURE 9 BRANCH/ROOT PRUNING
xx01

9. EXCAVATION/CUT & FILL -

TREES -

- ALL NRZ works are to be carried out using tree sensitive construction methods such as Horizontal Directional Drilling (HDD), Vacuum Excavation and/or Hand Digging
- All excavation is to be carried out under supervision & direction of the Project Arborist (AQF5).
- Tree root location & depth is to be identified prior to any works by hand-digging or other non-destructive techniques (Air-Spade) for removing soil around roots, as nominated by the Project Arborist (AQF5).
- All soil removal is to be undertaken with care to minimise the disturbance of roots beyond the immediate area of excavation.
- Roots that are temporarily exposed are to be protected from direct sunlight, drying out and extremes of temperature with appropriate covering (eg. Jute matting, geo-textile fabric) & watering.
- Where practicable fill is to be installed in incremental layer(s) by hand & not compacted by machinery.
- Tree roots required to be retained are to be separated and protected from toxins and damage using appropriate materials ie. geo-textile fabric, black plastic or Formatube® as directed by the Project Arborist (AQF5).

Notes: It is important to remember that vacuum excavation is primarily to locate & expose roots & not for jet washing or cleaning roots. The bark on the root/s is to be retained, undamaged. Water pressure needs to be at garden hose pressure around roots, well below 200psi.



10 FIGURE 10 EXCAVATION
xx01

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