

SITE PLAN - Existing

Scale 1:100

Existing retaining walling adjacent to the driveway, the letterbox and the adjacent garden to be removed during building demolition along with a small section of existing driveway pavement.

Existing small garden beds to be removed.

Existing tree (refer to the Existing Tree / Plant Schedule for details of the specimen and proposed actions). The pink dashed circle is the structural root zone (SRZ). The blue dashed circle is the tree protection zone (TPZ). The red dashed and dotted square is the location of the proposed tree protection fencing.

Existing garden edging to be removed.

Existing steps and walling to be removed during building demolition works

Existing garden bed and edging to be removed during building demolition works

Existing water tank and associated pipe work to be removed during building demolition works

EXISTING TREE / PLANT SCHEDULE (reference AIA prepared by Bradshaw Consulting Arborists dated 2.10.2020):

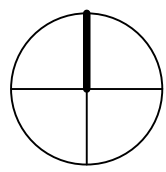
| Tree ID #: | Botanical Name: | Common Name: | Height m: | Canopy diam: m: | Diameter at breast height m: | SRZ radius m: | TPZ radius m: | Landscape significance: | Retention Value: | % incursion by building works: | Proposed Action: | Comments: |
|------------|--------------------------------|------------------|-----------|-----------------|------------------------------|---------------|---------------|-------------------------|------------------|--------------------------------|------------------|--|
| T1* | <i>Lophostemon confertus</i> | Brush Box | 7 | 2 | 0.100 | 1.5 | 2.0 | Moderate | Moderate | 0.0 | Retain | Street tree under Council care and management |
| T2* | <i>Plumeria rubra</i> | Frangipani | <5 | 6 | 0.250 | 1.9 | 3.0 | Moderate | Moderate | 0.0 | Retain | Attractive tree |
| T3* | <i>Eucalyptus saligna</i> | Sydney Blue Gum | 12 | 12 | 0.550 | 2.6 | 6.6 | High | High | 2.1 | Retain | Significant tree in the yard / integral to proposed native flora theme |
| T4* | <i>Populus nigra 'Italica'</i> | Lombardy Poplar | 7 | 6 | 0.761 | 3.0 | 9.1 | Low | Very Low | 6.2 | Retain | Has been pruned / canopy <2m (located on neighbouring property) |
| T5 | <i>Harpephyllum caffrum</i> | Kaffir plum | 6 | 6 | 0.300 | 3.6 | 6** | Moderate | Moderate | 0.0 | Retain | Located on neighbouring property |
| T6 | <i>Araucaria bidwillii</i> | Bunya Pine | 24 | 9 | 0.700 | 8.4 | 6** | High | High | 0.0 | Retain | Located on neighbouring property |
| T7 | <i>Eucalyptus sp</i> | Gum | 16 | 4 | 0.500 | x | x | nil | nil | 0.0 | Dead | Located on neighbouring property |
| T8 | <i>Melaleuca quinquenervia</i> | Swamp Paperbark | 23 | 10 | 1.100 | 13.2 | 6** | High | High | 0.0 | Retain | Located on neighbouring property |
| T9 | ?? | Pine?? | 20 | 4 | 0.800 | x | x | nil | nil | 0.0 | Dead?? | Located on neighbouring property |
| T10 | <i>Syzygium sp</i> | Lillypillly | 18 | 15 | 0.500 | 6.0 | 12** | High | High | 0.0 | Retain | Located on neighbouring property |
| T11 | <i>Eucalyptus sp?</i> | Gum | 15 | 10 | 0.600 | 7.2 | 12** | High | High | 0.0 | Retain | Located on neighbouring property |
| T12 | - | Citrus tree | 1 | 1-2 | - | - | - | Low | High | 0.0 | Retain | Desired for kitchen garden |
| T13 | - | Citrus tree | 1 | 1-2 | - | - | - | Low | High | 0.0 | Retain | Desired for kitchen garden |
| T14 | <i>Euphorbia pulcherrima</i> | Christmas Flower | 2 | 2 | - | - | - | Low | Low | - | Remove | Not consistent with desired native garden |
| T15 | <i>Euphorbia pulcherrima</i> | Christmas Flower | 2 | 2 | - | - | - | Low | Low | - | Remove | Not consistent with desired native garden |
| T16 | <i>Euphorbia pulcherrima</i> | Christmas Flower | 2 | 2 | - | - | - | Low | Low | - | Remove | Not consistent with desired native garden |
| T17 | <i>Nandina domestica</i> | Heavenly Bamboo | 2 | 1 | - | - | - | Low | Low | - | Remove | Not consistent with desired native garden |

* Trees subject of AIA

** Estimated from surveyor's dimensions

LEGEND FOR EXISTING TREE AND SITE PLAN:

- T1 T1
- Proposed tree protection zone for each tree (refer to Existing Tree / Plant Schedule on this sheet for details)
- Existing trees to be removed (refer to Existing Tree / Plant Schedule on this sheet for details)
- Proposed structural root zone for each tree (refer to Existing Tree / Plant Schedule on this sheet for details)
- Proposed Tree Protection (TPZ) fencing as identified in the Arborist's Report
- Items to be demolished / removed



NOTE:

Based on the Arborist report prepared by Bradshaw Consulting Arborists (dated 2.10.2020). **NOTE: Print in colour for accuracy of information**

| Date: | Amendments: |
|------------|---|
| 20.01.2021 | DRAFT issued electronically as PDF for FEEDBACK |
| 10.02.2021 | DRAFT issued electronically as PDF for FEEDBACK |
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| 24.02.2021 | FINAL SET issued electronically as PDF |

Project:

Proposed Dwelling
34 Lumeah Ave
Elanora Hgts NSW 2101

Client:

Antje Kuhenast and Markus Bisping

Sheet Title:

Existing Tree and Site Plan

Scale: Plan and Bar Scale @ 1:100 @ A1 sheet size

0 1m 5m 8m

Base drawing supplied by CMS Surveyors & Environment

Date: January 2021 (refer amends table)

Dwg no: 2014/1

sheet 1 of 3

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LANDSCAPE PLAN

Scale 1:100



Replace or repair the existing retaining wall on the boundary (match bricks as required).

Replace or repair the existing concrete driveway as per architectural plans.

Following demolition and replacement of the existing retaining wall cut back the slope to maximum grade of 1:4 and plant. Provide a free standing letter box (to be selected) where shown on the architectural plans. Provide brick garden edging at the top of the bank where adjacent to lawn, finished flush with adjacent finished lawn levels.

Proposed canopy tree as required under Clause C1.1 Landscaping of Council's Pittwater DCP. Refer to 2014/3 Planting Plan for details

Extend the existing garden to ensure the root zone of the existing Frangipani is contained within the planting area. Remove the existing lawn located within the proposed planting area. Provide a new brick edge to the garden where adjacent to the lawn, finished flush with adjacent finished lawn levels.

Proposed power pole - supplied by overhead power from the street pole and servicing the proposed dwelling by underground lines from the new pole.

Provide large flagging stones for access across the garden bed to the side access way.

Existing exposed rock outcrop. Remove any surface pipe work. Clean rock surface as required. Remove any other debris and vegetative matter and spread mulch (gravel or bark) across the area between the new dwelling and existing rock outcrop.

Proposed timber gate - refer to architectural plans.

Proposed steps - refer to architectural plans.

Proposed patterned sun screens (2x panels) to 2m high (to match sliding screens to front of dwelling) - fixed to treated timber frame mounted on metal stirrups - to allow vines to entwine and provide screening between dwellings.

Proposed stepping stones to clothes drying area - refer to architectural plans

Replace or repair timber paling boundary fence. At minimum replace rotted posts. Build to maximum height of 1.8m from the ground.

Proposed mulched area (gravel or bark as preferred) inter-planted as shown on the planting plan.

Proposed retaining wall to maximum height of 650mm to retain surface levels within the tree protection zone of tree T3. Wall to match new walls proposed elsewhere onsite - refer to the architectural plans.

Replace or repair timber paling boundary fence to side and rear boundaries (behind the building line). At minimum replace rotted posts. Build to maximum height of 1.8m from the ground.

Proposed timber gate - refer to architectural plans.

Proposed stepped ramped access along northern side of dwelling. Ramped at 1:8 with 100mm high steps (8x) with stepping stone treads inter-planted with native violets and Dichondra.

The existing boundary wall to be repaired and heightened where required to provide retaining for the proposed path. To Engineers detail as required.

Proposed planting area at pool terrace grade.

Proposed planter boxes as shown on the architectural plans.

Proposed stepped stepping stone access (100mm riser) to access rear yard.

Note: Management of stormwater drainage from the rear yard to be addressed by the Stormwater Engineer to ensure overland flow does not drain onto the terrace or into the building.

Proposed re-contouring of slope to accommodate stepped stepping stone access to rear yard. If rock is encountered realign access way to the north (to avoid the Eucalypt - T3)

CONSTRUCTION NOTES

NOTE TO ALL TRADES:

- During demolition works, salvage common bricks as possible in good condition and store for reuse onsite.
- The notes below re **Tree Protection** and **Proposed Retaining Walls** apply to all works and trades on the site.
- During earthworks the existing topsoil is to be stripped and stored onsite for later reuse in new planting areas. The stripped soil to comply with the following description:
 - Soil excavated from the site which contains organic matter, supports plant life, conforms generally to the fine to medium texture classification to AS 4419 (loam, silt, clay loam) and is free from:
 - Stones > 25 mm diameter
 - Clay lumps > 75 mm diameter
 - Weeds and tree roots, building materials, sticks and rubbish
 - Material toxic to plants.

General Notes:

- Check the location of all underground services prior to undertaking any earthworks or digging.
- Undertake all building works in accordance with the provisions of the Building Code of Australia.
- All excavations and backfilling are to be executed safely in accordance with appropriate professional standards and excavations are to be properly guarded and protected to prevent them from being dangerous to life or property.

Tree Protection: to be undertaken in accordance with the *Arboricultural Impact Assessment (AIA)* undertaken by Bradshaw Consulting Arborists dated 2 October 2020 and summarised below:

- Trees T1, T2, T3 and T4 as shown on the Landscape Plan Set are to be retained;
- Tree protection zones (TPZ) for Trees T1 to T4 as shown in the AIA are illustrated on the Landscape Plan Set. In addition, TPZs calculated for other nominated existing trees have been shown;
- A project arborist to be appointed (AQF level 5 with min 5 years' experience) and to undertake the following:
 - install tree protection fencing as shown on the Landscape Plan Set and in accordance with the AIA;
 - Arborist to certify that this work has been undertaken; and,
 - Arborist to supervise any works undertaken within the nominated TPZs;
- Works undertaken within the tree protection zones of the existing trees is to be undertaken by hand and be supervised by the Arborist. Particularly in relation to:
 - Tree T2 (Frangipani) - the underground domestic services are located within the TPZ of this tree - any modifications to these services is to be undertaken by hand and under the supervision of the arborist;
 - Tree T3 (Eucalypt) - the proposed retaining wall is located within the TPZ of this tree - its construction is to be undertaken under the supervision of the arborist. Backfilling to the wall is to be a coarse material or gap graded sand as approved by the arborist;
 - Trees 4 (Poplar):
 - earthworks in the rear yard to provide ramped access from the pool terrace to the rear yard to be undertaken under the supervision of the arborist - avoid encroaching into the TPZ of tree T3;
 - earthworks and construction in relation to the pool terrace and planter boxes to be undertaken under the supervision of the arborist.

Demolition Works: to be undertaken at commencement of building works by others and will include the following in relation to the external areas (outside of the building footprint):

- The retaining wall on the south side of the existing driveway will be removed and replaced by a low retaining wall / raised edging - by others - refer to the architectural plans;
- The external steps and walling from the driveway to the existing dwelling will be removed - by others;
- The water tanks located on the southern side of the existing dwelling (western end) and associated pipework will be removed; and,
- The retaining walls and paving on the south side of the existing dwelling (eastern end) will be removed - by others.

Demolition Works: to be undertaken prior to the landscape works:

- The garden bed and edging adjacent to the front of the existing dwelling (south end) to be removed - salvage stone edging and common bricks in good condition as possible for reuse onsite;
- The garden edging around the existing planting area on the southern boundary (western end in front yard) to be removed - salvage common bricks in good condition as possible for reuse onsite;
- The two small planting areas along the front boundary to be removed - retain the existing planting where it will be enclosed within the proposed extended planting areas;
- Remove any debris or surplus materials or obsolete pipework (check with project manager before undertaking) from the existing exposed rock outcrop located on the southern side of the dwelling;
- The garden shed located in the rear yard to be removed - check for possible asbestos content and remove in accordance with the latest Code of Practice published by the NSW Government as required. Salvage common bricks used as paving (in good condition as possible) for reuse onsite;
- Remove the water tank located behind the garden shed;
- Remove the pile of greenwaste in the rear yard (NE corner).

Stormwater management / drainage system: to be installed by others with particular attention addressed to the management of overland flow from the rear yard onto the pool terrace and the new dwelling (particularly around the SE corner of the dwelling at the drying court yard).

Vehicular pavements: to be managed by others - refer to architectural plans.

Proposed Retaining Walls: to be installed by others. Particularly note the following:

- the proposed retaining wall located within the TPZ of tree T3 is to be built with minimal excavation into the root zone and to be backfilled with be a coarse material or gap graded sand as approved by the arborist. The works within the TPZ of T3 are to be undertaken under the supervision of the Arborist;
- the proposed retaining walls located within the TPZ of tree T4 are to be built under the supervision of the Arborist.

Existing Retaining Walls: where located along side lot boundaries, are to be repaired or replaced as required:

- match existing materials as possible (salvaged bricks can be used as suitable);
- replace in accordance with Engineer's specifications.

Fencing: existing fencing to be repaired or replaced to maximum height of 1.8m where located behind the building set back. Fencing to be timber paling. At a minimum rotted fence posts to be replaced

Pedestrian Pavements: to be provided as stepping stones (fixed into place on a mortar bed). Possible materials include:

- sandstone flagging with sandstone log steps (cut to suit required riser height and path width);
- recycled common bricks salvaged from demolition works onsite; or,
- selected concrete units.

Drying Court Yard: to be accessed by stepping stone path as shown on the Landscape Plan Set. The unpaved area to be mulched with either gravel / pebble or bark mulch and planted as shown on plan.

Proposed Privacy Screen in Drying Court: Proposed patterned sun screens (2x panels) to 2m high (to match sliding screens to front of dwelling) - fixed to treated timber frame mounted on rust protected metal stirrups set in concrete footing - to allow vines to entwine and provide screening between dwellings.

Proposed planter boxes: to be installed by others - refer to architectural plans.

Proposed Planting Area Edging: to be installed as brick edging on a mortar haunch between planting areas and grassed areas. Finish flush with adjacent lawn areas. Select salvaged brick commons.

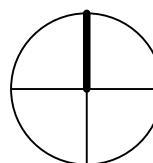
Earthworks / ground modelling: undertake earthworks in the following areas. Where earthworks are located within the TPZ of existing trees undertake works by hand:

- cut back the area behind the replaced retaining wall on the southern side of the driveway. Cut back the slope to fall at 1 to 4. Finish soil levels 50mm below the top of the replacement wall. Adjust the extent of the proposed planting area at the top of new batter to ensure the entire area of the new bank is contained within the new planting area;
- modify the levels to accommodate the proposed stepped stepping stone access from the pool terrace up to the retained lawn area as shown on the Landscape Plan Set. Create an even grade. Avoid any earthworks within the TPZ of tree T3.

CONSTRUCTION NOTES continue on sheet #2014/3 Planting Plan

LEGEND FOR LANDSCAPE PLAN:

- T1** Existing trees to be retained (refer to Existing Tree / Plant Schedule on this sheet for details)
- Proposed tree protection zone for each tree** (refer to Existing Tree / Plant Schedule on this sheet for details)
- Proposed structural root zone for each tree** (refer to Existing Tree / Plant Schedule on this sheet for details)
- Proposed Tree Protection (TPZ) fencing as identified in the Arborist's Report**
- Built areas / dwelling footprint and driveway
- Existing rock outcrops
- Proposed planting areas
- Proposed lawn areas
- Proposed mulched access ways
- Proposed stepping stone pads can be created from recycled common bricks as supply permits (salvaged from existing locations onsite)



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Landscape Plan

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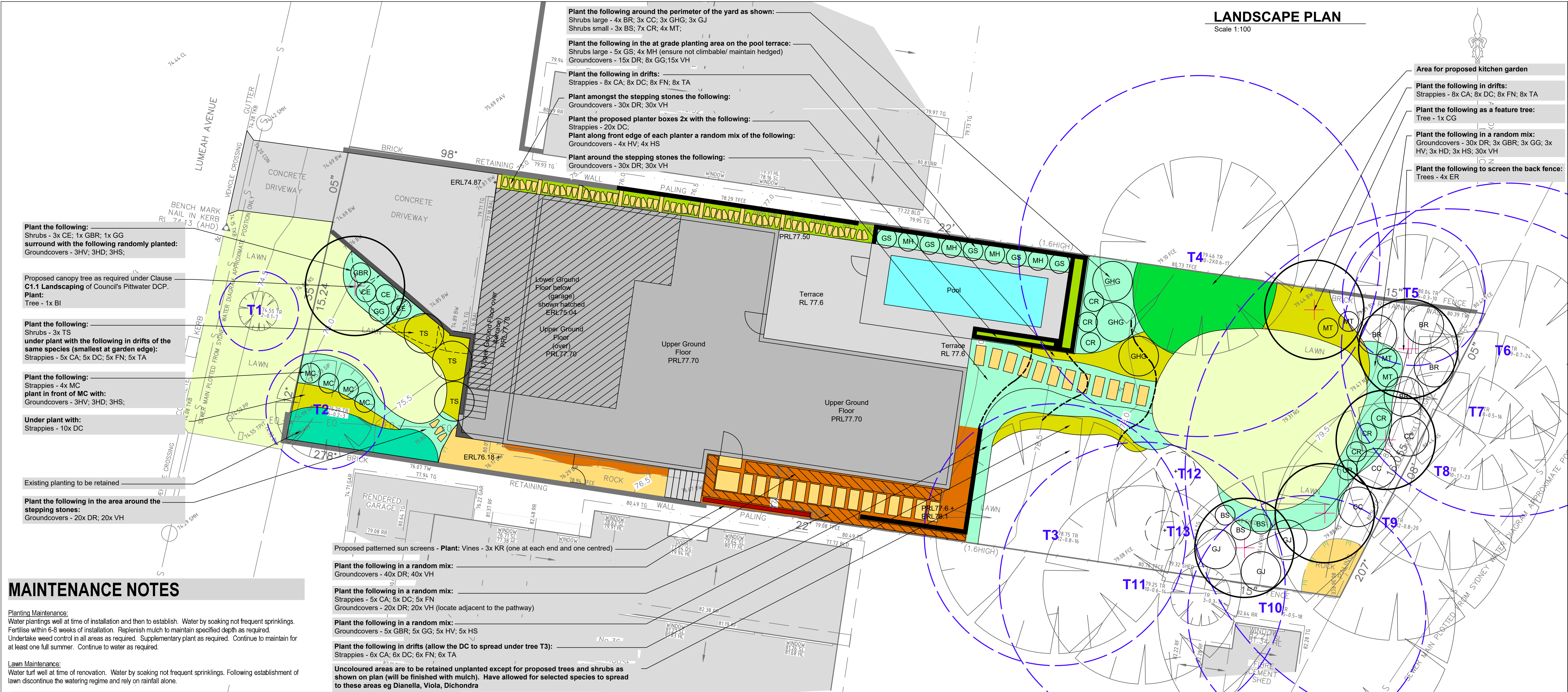
0 1m 5m 8m

Base drawing supplied by CMS Surveyors & Environment

Date: **January 2021 (refer amends table)**

Dwg no: **2014/2** sheet 2 of 3

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MAINTENANCE NOTES

Planting Maintenance:
Water plantings well at time of installation and then to establish. Water by soaking not frequent sprinklings. Fertilise within 6-8 weeks of installation. Replenish mulch to maintain specified depth as required. Undertake weed control in all areas as required. Supplementary plant as required. Continue to maintain for at least one full summer. Continue to water as required.

Lawn Maintenance:
Water turf well at time of renovation. Water by soaking not frequent sprinklings. Following establishment of lawn discontinue the watering regime and rely on rainfall alone.

PLANT SCHEDULE

| Key: | Botanical Name: | Common Name: | Local: | Height m: | Canopy m: | Tolerances: | Qu: | Pot size mm: |
|----------------------|-----------------------------------|-----------------------|--------|-----------|-----------|-------------|-----|--------------|
| Trees: | | | | | | | | |
| - | <i>Backhousia myrtifolia</i> | Grey Myrtle | ✓ | 3 | 2 | drought | - | 200 |
| BI | <i>Banksia integrifolia</i> | Coastal Banksia | ✓ | 4-15 | 1-6 | | 1 | * |
| - | <i>Callistemon salignus</i> | Willow Bottlebrush | ✓ | 1-10 | 1-5 | moist soils | - | * |
| CG | <i>Ceratopetalum gummiifolium</i> | NSW Christmas Bush | ✓ | 5 | 5 | | 1 | * |
| ER | <i>Elaeocarpus reticulatus</i> | Blueberry Ash | ✓ | 8-10 | 3-4 | | 4 | * |
| TL | <i>Tristanopsis laurina</i> | Water Gum | | 4-7 | 3-6 | | - | * |
| Shrubs: | | | | | | | | |
| BR | <i>Banksia robur</i> | Swamp Banksia | | 1-2 | 1-2 | moist soils | 4 | 150 |
| BS | <i>Boronia serrulata</i> | Native Rose | | 0.5-1 | 0.5-1 | frost | 3 | * |
| CC | <i>Callistemon citrinus</i> | Crimson Bottlebrush | | 2 | 2 | moist soils | 3 | * |
| CR | <i>Correa reflexa</i> | Native Fuschia | ✓ | 0.5-1.2 | 0.5-1 | | 3 | * |
| CE | <i>Crowea exalata</i> | Crowea | | <1 | <1 | | 7 | * |
| GHG | <i>Grevillea Honey Gem</i> | Grevillea | | 3-4 | 2-3 | | 3 | * |
| GJ | <i>Grevillea juniperina</i> | Grevillea | | <4 | 1.5-6 | | 3 | * |
| GS | <i>Grevillea sericea</i> | Pink Spider Flower | ✓ | 1-2 | 1-2 | | 5 | * |
| MH | <i>Melaleuca hypericifolia</i> | Melaleuca | ✓ | 1-2 | 1-2 | | 4 | * |
| MT | <i>Melaleuca thymifolia</i> | Honey Myrtle | | 1 | 1 | moist soils | 4 | * |
| TS | <i>Thlaspi speciosissima</i> | Waratah | ✓ | 2-3 | 2 | | 3 | * |
| Strappies: | | | | | | | | |
| - | <i>Austrodanthonia caespitosa</i> | Wallaby Grass | ✓ | 1 | 1 | | - | 75 |
| CA | <i>Carex appressa</i> | Native Sedge | ✓ | 1 | 1 | moist soils | 32 | * |
| DC | <i>Dianella caerulea</i> | Flax Lily | ✓ | 1 | 1-2 | | 62 | * |
| FN | <i>Ficinia nodosa</i> | Knobbly Club Rush | ✓ | <1 | <1 | moist soils | 32 | * |
| MC | <i>Macrozamia communis</i> | Burrawang Palm | ✓ | 1.5-2 | 1.5-2 | | 4 | * |
| TA | <i>Themeda australis</i> | Kangaroo Grass | ✓ | 0.3-0.7 | 0.4-0.5 | | 27 | * |
| Groundcovers: | | | | | | | | |
| DR | <i>Dichondra repens</i> | Kidney Weed | | spreading | 1-5 | shade | 185 | 150 |
| GBR | <i>Grevillea Bronze Rambler</i> | Grevillea | | <0.5 | 3-5 | | 9 | * |
| GG | <i>Grevillea gaudichaudii</i> | Grevillea | | <0.3 | 1-3 | | 17 | * |
| HV | <i>Hardenbergia violacea</i> | False Sarsparilla | ✓ | spreading | 1.5 | | 18 | * |
| HD | <i>Hibbertia dentata</i> | Twining Guinea Flower | ✓ | spreading | 2 | | 9 | * |
| HS | <i>Hibbertia scandens</i> | Golden Guinea Flower | ✓ | spreading | 2 | | 18 | * |
| - | <i>Ozothamnus diosmifolius</i> | Paper Daisy | ✓ | 1-2 | 1 | | - | * |
| VH | <i>Viola hederacea</i> | Native Violets | | <0.1 | 0.5 | shade | 185 | * |
| Vines: | | | | | | | | |
| KR | <i>Kennedia rubicunda</i> | Dusky Coral pea | | climbing | spreading | hardy | 3 | 150 |

✓ Listed as naturally occurring on Shale Slopes in Elanora Heights (ref: Council's *Native Gardening Booklet*) - Refer to this booklet if plant substitutions are required due to unavailability of selected species - otherwise select native species with similar habit as specified.

CONSTRUCTION NOTES cont'd

Proposed planting:

Materials:

Plants:

Supply the species as noted on Plan and which have large healthy root systems, with no evidence of root restriction or damage. Ensure plants are vigorous, well established, free from pests and diseases and consistent with the species. Plants are to be hardened off and suited to the site's natural climatic conditions. Trees to display a single leading stem unless otherwise required. The tree should not be too tall for the pot size. Stock may be rejected if considered by the client's representative to be too large for the pot size. Species noted as locally occurring to be sourced from local stock (local provenance).

Subsoil for planters:

The Hills B Horizon Mix or similar

Topsoil for planters:

The Hills Lightweight Planter Mix or similar

Site topsoil: Soil excavated from the site which contains organic matter, supports plant life, conforms generally to the fine to medium texture classification to AS 4419 (loam, silt, clay loam) and is free from:

- Stones > 25 mm diameter
- Clay lumps > 75 mm diameter
- Weeds and tree roots, building materials, sticks and rubbish.
- Material toxic to plants

Top dressing soil:

Clean, free of pests and weeds, good medium sand or loamy sand or sand-soil blend 80-20 (as available from Australian Native Landscapes)

Organic matter:

Well composted cow manure

Slow release fertilisers:

Provide eco-friendly products with an N:P:K ratio specifically suited to native species and to exotic species as applies.

Gravel mulch:

10-20mm gravel / pebble (not scoria) - colour selected as preferred

Organic mulch:

Material consisting of vegetative material of species known not to be weed or noxious weed species, chipped to pieces not larger than 75 x 50 x 15mm. Ensure mulch is free of deleterious and extraneous matter such as soil, weeds and sticks. Unless specified, do not use bark mulch, pebble mulch or tub ground material, do not use bark fines and do not use freshly chipped plant material. The mulch to be weathered material.

Straw mulch:

As available from <https://www.swanes.com/pea-straw-mulch.html> or similar product. Can be used as a substitute to organic mulch

Existing planting area to be retained and extended:

- remove existing grass / lawn located within the new boundary of the planting area, ensuring grass roots are also removed;
- provide planting area edging as specified above;
- cultivate by hand new areas to be planted. Protect existing trees and plantings from cultivation;
- set out proposed new plantings;
- excavate planting hole to 100mm larger than pot size all round and break up the base and sides of hole as required. If tree roots from tree T2 are encountered abandon the hole and backfill with site soil and select a new location. Do not interfere or cut roots of any existing trees when undertaking planting works;
- install plant plumb into the prepared hole and backfill with site topsoil finishing plumb with the pot soil. Incorporate a handful of organic matter and work into the topsoil prior to placing in the prepared hole;
- apply slow release fertiliser in accordance with the manufacturer's directions;
- spread 75mm depth of organic mulch to planting areas (finish flush with adjacent edges).

Proposed Planting Areas:

- establishment of proposed new planting areas within the rear yard can be undertaken in stages to allow for stabilisation of exposed banks and to accommodate an achievable management regime;
- remove existing grass / lawn located within the new boundary of the proposed planting area, ensuring grass roots are also removed;
- provide planting area edging as specified above between lawn areas and planting areas;
- spread organic matter to areas to be planted (50mm depth) excluding areas to remain unplanted but mulched;
- cultivate the area to be planted, incorporating the organic matter into the existing soil, ensuring areas located within the TPZs of the existing trees are cultivated only by hand. Protect existing trees and plantings from cultivation. Refer to the Landscape Plan Set for the extent of TPZs. Over time, as the existing trees grow, these TPZs will expand. Rule of thumb is that the radius of a TPZ is 12x the diameter of the tree trunk at breast height;
- set out proposed new plantings;
- excavate planting hole to 100mm larger than pot size all round and break up the base and sides of hole as required. If tree roots are encountered abandon the hole and backfill with site soil and select a new location. Do not interfere or cut roots of any existing trees when undertaking planting works;
- install plant plumb into the prepared hole and backfill with site topsoil finishing plumb with the pot soil. Incorporate a handful of organic matter and work into the topsoil prior to placing in the prepared hole;
- Weeds and tree roots, building materials, sticks and rubbish.
- Material toxic to plants
- Clean, free of pests and weeds, good medium sand or loamy sand or sand-soil blend 80-20 (as available from Australian Native Landscapes)
- Well composted cow manure
- Provide eco-friendly products with an N:P:K ratio specifically suited to native species and to exotic species as applies.
- 10-20mm gravel / pebble (not scoria) - colour selected as preferred
- Material consisting of vegetative material of species known not to be weed or noxious weed species, chipped to pieces not larger than 75 x 50 x 15mm. Ensure mulch is free of deleterious and extraneous matter such as soil, weeds and sticks. Unless specified, do not use bark mulch, pebble mulch or tub ground material, do not use bark fines and do not use freshly chipped plant material. The mulch to be weathered material.
- As available from <https://www.swanes.com/pea-straw-mulch.html> or similar product. Can be used as a substitute to organic mulch

Proposed planter boxes:

- to be waterproofed with drainage system installed by others and to include at a minimum:
 - waterproof membrane;
 - drainage cell, Atlantis Flo-Cell or similar - to be drained to proposed stormwater management system;
 - Geotextile layer over the drainage cell;
 - Washed river sand layer over the geotextile;
 - Planter soil overlying the above.
- Back fill to within 350mm of the top of the planter with light sub soil as required;
- Backfill within 50mm of the top of the planter with topsoil for planters (300mm depth);
- Install plantings as specified in the Plant Schedule;
- Apply slow release fertiliser to manufacturer's directions;
- Apply organic or pebble mulch to 50mm depth.

Unplanted areas within the planting areas:

- remove existing grass / lawn located within the new boundary of the proposed planting area, ensuring grass roots are also removed;
- spread 75mm depth of organic mulch. Straw mulch is an acceptable alternative though will require more frequent replacement than other organic mulches.

Renovate existing lawn areas:

- Lawn areas as shown on plan are existing;
- Following completion of all construction and landscape works renovate these areas as follows as required:
 - water well;
 - top dress areas that are uneven with top dressing soil; and,
 - fertilise with a product suited to lawns.

LANDSCAPE PLAN

Scale 1:100

- Area for proposed kitchen garden**
- Plant the following in drifts:**
Strappies - 8x CA; 8x DC; 8x FN; 8x TA
- Plant the following as a feature tree:**
Tree - 1x CG
- Plant the following in a random mix:**
Groundcovers - 30x DR; 3x GBR; 3x GG; 3x HV; 3x HD; 3x HS; 30x VH
- Plant the following to screen the back fence:**
Trees - 4x ER

LEGEND FOR PLANTING PLAN:

- T1** Existing trees to be retained (refer to Existing Tree / Plant Schedule on this sheet for details)
- T1** Proposed tree protection zone for each tree (refer to Existing Tree / Plant Schedule on this sheet for details)
- T1** Proposed structural root zone for each tree (refer to Existing Tree / Plant Schedule on this sheet for details)
- Built areas**
- Existing rock outcrops**
- Proposed lawn areas**
- Proposed mulched access ways**
- Proposed stepping stone pads**
- Existing planting**
- Proposed kitchen garden**
- Proposed planting of strappy plants**
- Proposed planting of groundcovers**
- Proposed large shrubs**
- Proposed canopy trees**
- Proposed small shrubs**
(Refer to Plant Schedule for details)

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| NOTE: Based on the Arborist report prepared by Bradshaw Consulting Arborists (dated 2.10.2020). NOTE: Print in colour for accuracy of information | |
| Date: | Amendments: |
| 12.02.2021 | DRAFT issued electronically as PDF for FEEDBACK |
| 18.02.2021 | FINAL issued electronically as PDF |
| 23.02.2021 | FINAL issued electronically as PDF |
| 24.02.2021 | FINAL SET issued electronically as PDF |
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|---|--|
| Project: | |
| Proposed Dwelling | |
| 34 Lumeah Ave | |
| Elanora Hgts NSW 2101 | |
| Client: | |
| Antje Kuhenast and Markus Bisping | |
| Sheet Title: | |
| Planting Plan | |
| Scale: Plan and Bar Scale @ 1:100 @ A1 sheet size | |
| Base drawing supplied by CMS Surveyors & Enviroitecture | |
| Date: January 2021 (refer amends table) | |
| Dwg no: 2014/3 sheet 2 of 3 | |
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