







## Stanton Dahl & Associates Pty Limited. ABN 32 002 261 396 Nominated Architects : D.P Stanton 3642, S.M Evans 7686 © Copyright 2023 Stanton Dahl

tfc

tgsi

tow

wfc

## legend:

note: drawing may not contain all

RL00.00	• proposed levels	
ac	air conditioner condenser	
acc	accessible	
adhc	ageing, disability & home care	
ар	access panel	
bal(1)	balustrade (type)	
bfc	broom finished concrete	
boe	brick on edge	
bol	bollard	
cl	clothes line	
col	column	
dp	downpipe	
drp	doorpost	
ex.	existing	
fb(1)	facebrick work (type)	6
ft(1)	fence (type)	R
gb	garbage bin	
gt	gate	
gtd	grated drain	
hr(1)	handrail (type)	
ht	hose tap	
hwu	hot water unit	
hyd	hydrant	
kr	kerb ramp	10 A.
lb	letter box	2.60
ofc	off form concrete	• •
рр	power pole	
rw(1)	retaining wall (type)	
sfc	steel float concrete	
swp	storm water pit	

#### trowel finished concrete tactile ground surface indicator top of wall wood float concrete ex.contours & banking line

existing trees to be retained

existing trees to be removed

– – – metal garden edging

fencing -for all fencing materials and types refer to the architects plans. proposed trees

planting areas

mulch path

sandstone boulders

## Planning for Bushfire:

Note: Design complies with the requirement of an asset protection zone as outlined in the planning for Bush Fire Protection (2019) Appendix 4 of the NSW RFS Standards for Asset Protection Zones.

Tree in maturity should not touch or overhang the building.
Low limbs should be removed up to a height of 2m above the ground.

3. Grass should be kept mown (no more than 100mm in height)

4. Landscape area should be maintained free of leaf litter and debris. The gutter and roof should be maintained free of leaf littler and debris.

5. Ground fuels such as fallen leaves, twigs and branches should be removed on a regular basis. 6. Shrubs form 10% of the ground cover.

dule					
anical name	common name	mature height	quantity	pot size	stake
eocarpus reticulatus 'Prima Donna'	Blueberry Ash	12.0m	2	100L	yes
gerstroemia indica 'Sioux'	Crepe Myrtle	6.0m	2	100L	yes
mena 'Cherry Surprise'	Lilly Pilly	3.0m	85	200mm	no
ers, Grasses and Feature Plants					
nropodium cirratum	NZ Rock Lily	0.9m	96	200mm	no
bertia scandens	Guinea Flower	0.2m	25	140mm	no
ope 'Just Right'	Just Right	0.5m	111	140mm	no
nandra longifolia 'Tanika'	Dwarf Mat Rush	0.5m	268	140mm	no
oporum parvifolium 'Yareena'	Creeping Boobiala	0.1m	314	140mm	no
lodendron 'Xanadu'	Xanadu	0.6m	52	140mm	no
chelospermum jasminoides 'Tricolor'	Tricolor Jasmine	0.2m	64	140mm	no

<sup>Plotted:</sup> 18/5/2023 12:30 pm LO1

Status: Part 5 Submission Date 1:100 @ AI 18/5/2023 2869.23

Stage:

Part 5

Checked Drawn MM Sheet: ML of 3 1













#### required. Twin 3.15mm twisted A continuous tree protection fence shall be erected around the perimeter of the tree protection zone (TPZ). Refer to (4) plan calculating the TPZ and should be situated as determined by the project arborist in accordance with AS4970 Protection of trees on development sites, Section 4, 4.3. The TPZ must be secured to restrict access. AS4687 Temporary fencing and hoardings specifies applicable fencing requirements.

The tree protection fence shall be a minimum of 1800mm high chain link fabric on 2400mm star picket or 50mm dia gwi pipe anchor posts. They are to be driven 600mm into the ground ensuring fencing can not be moved, install diagonal cable bracing if required for stability.

Attach shade cloth or similar geotextile fabric to cover the fence panels and screen the TPZ from contamination.

The tree protection fence shall be installed prior to any demolition, clearing, grading or construction work. The tree protection fence is to remain in place in functioning condition until all construction is

No persons, vehicles, material, equipment or disposal of solid, liquid or chemical waste including concrete cleanup waste, painters waste or similar is permitted within the TPZ. No excavation or soil removal permitted within the

There is to be no storage of materials, rubbish, soil, equipment, structures or goods of any type to be kept or placed within 5 metres from the trunk or within the dripline of any tree for the duration of the development. This will ensure protection of the tree/s to be retained on or adjacent to site.

A 600mm x 450mm prohibition sign complying with in accordance with AS4970 2009 Protection of trees on development sites stating "no entry-tree protection zone" and including the site foreman's contact details is to be attached to the fence, visible from all areas of the site. The sign is to remain in place until all onstruction has been completed.

> Tree protection fence installed around a tree at the perimeter of the tree protection zone (tpz). Anchor posts are to be located to avoid damage to tree roots greater that 25mm in diametre. À lockable gate can be installed in the fence if required for maintenance purposes.







For single trunk trees, The tpz is an area equivalent to a circle with a radius 12 x the trunk diameter (t) measured 1.5 metres above the ground.

ie. Single trunk tree with a 500mm trunk diameter (t) at 1.5 metres above the ground:  $12 \times t(12 \times 500 \text{ mm}) = 6.0 \text{ m radius}$ 

For multi-trunk trees With more than 1 trunk arising below 1.5 metres above the ground level, the tpz is an area equivalent to a circle with a radius 10 x the trunk diameter (t) measured at the base of the trunk.

> Tree watering 1: 1st initial watering at the time of planting. Quantity of water will be adequate to saturate the root ball to its core. Tree watering 2: post planting, provide a minimum of 15 litres of water (for tree in a 45 litre pot) to the newly planted tree per 7 days. Water at a slow rate not to displace mulch. For trees in pot size larger than 45 litres, provide quantity of water on third of that pot size.



- selected turf species

- imported topsoil to

- 150mm deep cultivated



Architect:

#### Place shrub centrally in hole Tease roots out from root ball

75mm depth approved organic mulch as specified ensure mulch is clear of stem

Topsoil as specified. Topsoil depth varies for garden bed - types. Refer specification for topsoil depths. Apply approved slow release fertiliser as specified

Roughen interface between topsoil and subsoil

Excavate hole to the required size and roughen sides and - base of hole. Backfill with approved imported or site

- Rip subsoil to 200mm depth



Project Architect: Stanton Dahl Architects

Ph: (02) 8876 5300

Landscape Consultant: Botanique Design Mob: 0404 887 620

Stormwater Consultant Greenview Consulting

Ph: (02) 8544 1683



General Housing Developm

25-29 Prospero Street, Maryla

- Tree protection zone (TPZ) The tree protection zone is the minimum area around a
- tree that must be left undisturbed to protect the root system and maintain the health and stability of the tree.
- The TPZ is calculated using the methodology detailed in drawing (4) and (5), based on the British Standard BS 5837:2005 trees in relation to construction recommendations. Note that distances are measured from the outside edge of the trunk of the tree.
- In some circumstances the TPZ may vary from the area calculated to take into consideration individual site factors - such as existing structures, the presence of rock outcrops or similar. Variations to the TPZ must be assessed and certified by an arborist.
- To help protect the tree a fence or similar barrier is generally erected around the perimeter of the TPZ refer to drawing (1).

No trenching, excavation, soil level changes, storage of materials, disposal of waste, mechanical equipment or other construction activities are allowed in the TPZ. Minor works that do not adversely impact on the tree may be carried out in the TPZ under the direct supervision of an arborist.



All trees supplied must meet the criteria of AS2303-2018: tree stock for landscape use & be healthy specimens free of pests and diseases. Trees to be well watered of a maximum of 24 hours prior to planting

Set 3 of 50x50x2400mm hardwood stakes vertically and clear of root ball and canopy at 900mm spacing, offset a min. 200mm from - underground services to ensure no damage is caused to services. Stakes must be positioned so as to prevent damage to structural branches and prevent rubbing on branches.



50mm wide hessian ties of good quality wrapped around the trunk and nailed or stapled to the stake. Tree tie is to be positioned as high as possible, looped around the trunk and not the branches, and be loose, however still be tight enough to prevent excessive movement

Position tree in hole with the top of the rootball at the same height as the surrounding ground and backfill with 50/50 blend of site soil and imported organic topsoil. Imported organic topsoil must be as per AS:4419 2003: soils for landscape & gardens. At the time of planting, if the roots are matted, slice the bottom 50mm off and apply the spade to the bottom in each quadrant.

Apply and spread mulch (as per AS4454-2012) to a depth of 150mm and 1200mm diameter from tree. No mulch is to be touching the tree.

Apply 500gms of gypsum to the planting site at a radius of a minimum 1200mm diameter from centre of hole. Apply 500gms of gypsum to inside of hole. Lightly compact soil at the base to prevent settling.

Excavate a planting hole with sloping sides 3 times the width of the rootball. Break up sides and base. If digging in soil of low permeability, the hole should be wider and deeper. In this instance backfill will be required at base of hole. - Augers are not to be used for excavation of the planting hole. Planting hole is to be watered prior to planting. No tree is to be planted into naturally waterlogged soil. If soil is waterlogged, planting must be rescheduled to allow sufficient time for the soil to dry out.

## **Tree Planting Detail**

	ent Tree Protection & Details		Status: P	art 5 A
nent			Date: 10/5/2023 Stage:	Scale: 1:20, 1 AI Drawn:
nd	<sup>File:</sup> 230318 25-29 Prospero St, Maryland_Landscape.pln	<sup>Plotted:</sup> 10/5/2023 9:48 am	Part 5 Drawing: LO2	MM Sheet: 2

ctivity Submission S|d job no: :10 @ 2869.23

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of 3

BGWY9 MI 6

#### LANDSCAPE NOTES:

#### GENERAL

1. The Landscape drawings have been based on site survey and building layout information. Check boundaries, levels, dimensions and locate services on site prior to starting work.

- 2. Landscape plans are to be read in conjunction with all architectural and other project consultant's drawings
- and specifications and with such other written instructions as may be issued during the course of the contract.
- 3. Any discrepancies between landscape/architectural or other project consultant's drawings shall be reported to the landscape designer prior to any works being carried out.
- 4. All works are to be carried out in accordance with drawing notation and/or written specifications where
- applicable. 5. Works and supply of materials not covered by drawing notation or written pecification are to be carried out in
- accordance with AS Codes, LCA guidelines and the By-Laws and Ordinances of the relevant Building Authority and/or manufacturer's recommendations as applicable. 6. All dimensions and locations of works are to be checked on site and confirmed by the landscape/building site
- supervisor prior to the commencement of any works. 7. Dimensions shall not be obtained by scaling from structural drawings. Dimensions are indicated in millimeters
- unless otherwise specified. 8. The contractor shall at all times implement adequate erosion and sediment control measures where applicable,
- (details noted on the construction management plan) 9. The position of services indicated on drawings (when applicable), are approximate and must be confirmed on
- site prior to the commencement of any site works. 10.Refer to Architectural drawings for fence types, retaining walls, paving and decking details.

## **AUSTRALIAN STANDARDS**

All materials and workmanship should be in accordance with the relevant Australian standards:

- AS1684 Residential Timber Framed Construction Part 1
- AS1720.1 1997 (Amendment 4 2002) Timber Structures Design AS4419 - 2002 Soils for landscaping and Garden Use
- AS3600 2009 (Amendment 1 2012) Concrete Structures
- AS1012 Methods of Testing Concrete
- AS3610 1996 Formwork for Concrete
- AS/NZ4455 Part 1 2008 and Part 2 2010 Masonry Units, Pavers, Flags and Segmental Retaining walls Masonry AS1428.1 - 2009 (Amendment 2010) Design for Access and Mobility - General requirements for Access - New
- Building Works
- AS1428.3 1992 Requirements for Children and Adolescents with Physical Disabilities All pavements shall comply with AS/NZS 4586:1999 standards Class W (low) for slip resistance

### SERVICES

Before landscape work is commenced. The Landscape Contractor is to establish the position of all service lines and ensure tree planting is carried out at least 3 metres away from these services. Service lids, vents and hydrants shall be left exposed and not covered by any landscape finishes (turfing, paving, garden beds etc.) Finish adjoining surfaces flush with pit lids.

#### SITE PREPARATION

Clear site of any builders rubbish and set up erosion and sediment control as per councils requirements All existing trees and/or vegetation to be retained, is to be preserved and protected from any damage occurring during the execution of landscape works. The root systems of existing retained plants are not to be disturbed. Landscape operations carried out within the root zone is to be carefully carried out using hand tools. Storage of materials, Mixing of materials, vehicular parking, disposal of building materials and stockpiling shall not be carried out within 3m of the drip line of these trees/vegetation. Grade site to achieve proposed final grades. Stockpile soil if suitable for reuse or provide landscape soil that meets Australian Standards to replace site top soil.

### DRAINAGE.

Subsoil drainage: Where applicable, flexible 90mm subsoil, socked, drainage coil is to be installed to all planting areas defined by retaining walls, interfaces between planting/lawn areas and paving, kerb lines, footpath edges etc. on natural ground. The subsoil drainage lines are to be installed and covered with free draining gravel at the base of retaining walls and planting areas, as above, and sufficiently buried to ensure they are covered with 100mm free draining gravel and 150mm topsoil. The gravel is to be covered with 3-4 oz non-woven filter fabric. Surface drainage: The contractor is to ensure adequate drainage is provided to all newly paved/hard surface areas, linking either to existing drainage sump pits or to new pits constructed by the contractor. The Subsoil and Surface drainage system is to be linked to the site's storm water system.

### SOIL PREPARATION

Soil compliance - Soil test results must confirm compliance of the proposed soil with AS 4419 and the "Soil type(s)" specified below as defined by AS 4419-2003. Soil for landscaping must be site soil or imported topsoil that is tested for horticultural suitability by a NATA accredited laboratory and provide for the site specific regetation performance objectives. A qualified Agronomist must provide certification that soil amelioration works have been undertaken in accordance with the conditions and relevant specification, approved documentation of all relevant approvals

Phosphorus levels in soil - For phosphorus-sensitive plants (i.e. many natives) ensure the soil complies with paragraph 5.8 (page 8) of AS4419. Nitrogen- Include / apply plant-available nitrogen for low nitrogen mulches to prevent nitrogen deficiency from

All proposed planting areas are to be deep ripped to a depth of 300mm and clay soils are to be treated with a

clay breaker. If existing top soil suitable for reuse it may be reused. 75mm depth of ANL Organic Garden Mix to be imported and combined with 25mm depth Greenlife compost or approved equivalent. Additive to be to a depth of 100mm, cultivated with existing garden bed soil to 250mm depth. Weed matting (non-plastic type) to be provided under all private courtyard garden beds. Install 75mm of selected mulch.

### NEW PLANTING

All plants shall be true to type and size, conform with those species listed in the Plant Schedule on the drawings, be vigorous, well established, of good form consistent with species or variety, not soft or forced, free from disease or insect pests with large healthy root systems and no evidence of having been restricted or damaged. Immediately reject dried out, damaged or unhealthy plant material before planting. All stock is to be container grown for a minimum of six (6) months prior to delivery to site.

Plants shall have been hardened off and suitable for planting in the climatic conditions prevailing at the site. Trees shall be of uniform appearance and have a single leading trunk and proportionate and balanced crown. The Contractor shall be responsible for the health of plants from time of delivery, and no consideration will be given to any claim arising from the Contractors neglect or failure to observe any defects in the plants at time of

deliverv Remove plant from container without disturbing the root ball and place centrally and plumb in the hole with the top of the root-ball level with the surrounding surface level. Backfill root-ball with an Organic garden soil-mix, lightly tamp and water thoroughly to eliminate air pockets.

Install plant material as per plan. Keep planting areas moist, stake plants as required and 'water in'. Ensure soil-mix is not placed over the top of the root-ball and that the plant stem remains the same height above the ground as it was in the container. Soil-mix for backfilling of plants shall conform to AS4419-1998. Weed matting (non-plastic type) to be provided under all private courtyard garden beds.

#### TREES

Refer to Tree Planting Detail when applicable.

The trees shall comply with NATSPEC Specifying Trees: a guide to assessment of tree quality (2003) or Australian Standard AS 2303 – 2015 Tree stock for landscape use, and be planted and maintained in accordance with Councils street tree planting specifications. Install root barrier to site services as required.

### STAKING AND TYING

Stakes shall be straight hardwood, free from knots and twists, pointed at one end and sized accordingly to plant size to be staked. 1 x (1200 x 25 x 25mm) a)  $5_{-151}$  not size

a) 5-15L pol size	
b) 35-75L pot size	2 x (1500 x 38 x 38mm)

c) 100L & greater pot size 3 x (1800 x 50 x 50mm)

Ties shall be 50mm wide hessian webbing or approved equivalent nailed or stapled to stake. Drive stakes a minimum one third of their length, avoiding damage to the root system, on the windward side of the plant.

### TURF

Excavate/ grade areas to be turfed to 120mm below the required finished levels. Do not excavate with 1500mm of any existing tree to be retained. Ensure that all of the surface water runoff is to be directed towards the inlet pits, kerbs etc. and away from buildings. Ensure that no pooling or ponding will occur. Rip subgrade to 150mm deep. Install 100mm depth of 5 parts imported topsoil mixed with 1 part compost. Just prior to spreading turf, spread 'shirleys no. 17 lawn fertiliser' over the topsoil at the recommended rate. Lay Sir Walter Buffalo turf rolls closely butted. Fill any small gaps with topsoil. water thoroughly.

### **PROTECTION OF EXISTING TREES**

Protection of existing trees to be retained on site, trees shall be adequately protected to council requirements for the duration of the building contract. Storage of materials, mixing of material, vehicular parking, disposal of building materials and stockpiling shall not be carried out within the drip line of these trees. Any roots damaged during the building operations shall be cleanly cut off inside the damaged or exposed area. Trees are to be monitored for health during the building contract ensuring the root zone has not been damaged or

has dried out. Tree root pruning shall be undertaken by an experienced Arborist with a qualification in tree surgery.



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## MULCHING

On completion of planting, all areas are to be mulched using non toxic Cypress Mulch or similar that meets Australian Standards to a depth of 75m. A water catchment dish is to be provided around the base of each plant. Keep mulch clear of all plant stems and rake to an even surface finishing 25mm below adjoining levels. Ensure mulch is watered in and tamped down during installation. Keep mulch clear of any plant stems.

#### FERTILISER

MASS PLANTING AREAS: All newly planted areas are to be fertilised with an organic life, slow release fertiliser (Osmocote 8-9 month / Agriform (R) 21g ) which is to be adequately watered in. Native plants with Osmocote zero Phosphorus 5-6 month slow release. Apply as per manufacturer's instructions. ADVANCED TREES: Pellets shall be in the form intended to uniformly release plant food elements for a period of approximately nine months equal to Shirleys Kokei pellets, analysis 6.3:1.8:2.9. Kokei pellets shall be placed at the time of planting to the base of the plant, 50mm minimum from the root ball at a rate of two pellets per 300mm of top growth to a maximum of 8 pellets per tree.

### METAL EDGING

Metal edging shall consist of 100 x 5mm, galvanized, flat bar steel, secured in place with either 75x25x300mm treated pine pegs driven into the ground, or with 400mm re-inforced rod welded to steel at 1000mm centers and hammered into the ground. Edging is to finish flush with adjoining lawn surfaces with the pegs recessed 20mm below top of edging. In general edging is to be provided at all interfaces between lawn and planting areas.

#### BOULDERS

#### LANDSCAPE MAINTENANCE PROGRAMME

Maintenance shall mean the care and maintenance of the landscape works by accepted horticultural practice as rectifying any defects that become apparent in the landscape works under normal use. This shall include, but shall not be limited to, watering, mowing, fertilising, reseeding, re-turfing, weeding, pest and disease control, staking and tying, replanting, cultivation, pruning, aerating, renovating, topdressing, maintaining the site in a neat and tidy condition as follows:-

#### 1.0 GENERAL

The landscape contractor shall maintain the landscape works for the term of the maintenance (or Plant establishment) period to the satisfaction of the council. The landscape contractor shall attend to the site on a weekly basis. The maintenance period shall commence at handover and continue for a period of 52 weeks maintenance for the Post- Completion Period which also includes a 3 Month Maintenance period for minor building matters.

## 2.0 WATERING.

Grass, trees and garden areas shall be watered regularly so as to ensure continuous healthy growth. The minimum acceptable watering required is equal to 25mm of natural rainfall or its applied equivalent during each period of one (1) week, around individual plants, maintain a completely weed and grass free watering saucer of a minimum diameter of one (1) metre.

#### 3.0 RUBBISH REMOVAL

During the term of the maintenance period the landscape contractor shall remove rubbish that may occur and reoccur throughout the maintenance period. This work shall be carried out regularly so that at weekly intervals the area may be observed in a completely clean and tidy condition.

#### 4.0 REPLACEMENTS

The landscape contractor shall replace all plants that are missing, unhealthy or dead at the Landscape Contractor's cost during the maintenance period. Replacements shall be of the same size, quality and species as the plant that has failed unless otherwise directed by the Landscape Architect. Replacements shall be made on a continuing basis not exceeding two (2) weeks after the plant has died or is seen to be missing.

5.0 STAKES AND TIES The landscape contractor shall replace or adjust plant stakes, and tree guards as necessary or as directed by the Landscape Architect. Adjust ties to give adequate support to the plants, replace broken or damaged ties as necessary and straighten stakes. Remove stakes and ties at the end of the maintenance period if so directed.

6.0 PRUNING Trees and shrubs shall be pruned as directed by the Landscape Architect. Pruning will be directed at the maintenance of the dense foliage or miscellaneous pruning and beneficial to the condition of the plants to improve plant shape and form or to clear footpaths and driveways. Any damaged growth shall be pruned. All pruned material shall be removed from the site.

#### 7.0 MULCHED SURFACES

All mulched surfaces shall be maintained in a clean and tidy condition and be reinstated if necessary to ensure that a depth of 75mm is maintained. Ensure mulch is kept clear of plant stems at all times.

#### 8.0 PEST AND DISEASE CONTROL

Control pathological diseases or insect pests by physical removal. Where physical removal is not possible use registered non- toxic sprays, applied in accordance with manufacturer's instructions.

### 9.0 WEED ERADICATION

Eradicate weeds by environmentally acceptable methods using a non-residual glyphosate herbicide (eg. 'Roundup') in any of its registered formulae, at the recommended maximum rate. Regularly remove by hand, weed growth that may occur or recur throughout grassed, planted and mulched areas. Remove weed growth from an area 750mm diameter around the base of trees in grassed areas. Continue eradication throughout the course of the works and during the maintenance period.

### 10.0 FERTILISING Apply follow up concentrated organic fertiliser to all turfed areas once during the maintenance period 10 weeks after completion.

11.0 LAWNS Mow at max 10-day intervals, trimming all edges, remove all weed growth or grass around base of all plants in turf or by hand in grass areas within the isolated planting area edging and within one (1) metre diameter area in grass, do not use nylon line type edge trimmers around base of trees - replace or repair failed turf and bare patches.

### 12.0 SOIL SUBSIDENCE

Any soil subsidence or erosion which may occur after the soil filling and preparation operations shall be made good by the landscape contractor at no cost to the client.



Approx. 300mm - 600mm sandstone boulders. Ensure boulders have a flat base and are stable.

## ONGOING MAINTENANCE SCHEDULE OF PLANTING AND TURF AREAS

OCCUPATIONAL HEALTH AND SAFETY (OHS)

Services are to be provided safely and in accordance with relevant OHS regulations and with continual regard for the safety of the public and developer employees. MOWING

- All grassed areas shall be maintained in a weed free state. Weed growth with grass areas must not exceed 10% of the total grass area. - Grass clippings shall be distributed evenly over the surface and at no time shall the layer of clippings

- be at such a depth that it will affect or damage the lawn area. - Ensure one does not mow over any litter or debris. Prior to mowing, all areas shall be inspected and are to be cleared of litter and debris, including but not limited to paper, plastic, glass, rocks, branches, garden refuse, timber, spoil, etc. Such material shall be disposed of off-site. The contractor must take an
- environmentally responsible approach to the collection, sorting and recycling (where appropriate) of materials collected in the interests of waste minimisation. Green waste recycling is encouraged. - Sharps are to be collected by the developer and disposed of appropriately. The contractor should be fully aware of the associated problems of needle stick injury and therefore handle sharps accordingly.
- Grass height shall be kept between 40 mm 70mm in height. - All turf is to be cut evenly and sharply across the surface to a height of 40mm. The method of measurement of the mowing height shall be the average height from the ground to the uppermost extent of the blades when held up vertically. No more than one-third (1/3) of the grass length should be
- removed in any one mowing. Wherever possible grass shall be cut in parallel lines so that all grassed areas are left with a neat and tidy appearance. On successive cuts the grass must be mowed in the opposite direction or at variable directions, to avoid windrows developing and to prevent grass seed stalks lying in one direction and remaining uncut. After mowing, all hard surfaces such as footpaths and roads shall be cleared of cut
- The needs of the public must be considered before mowing commences. At all times, the contractor must be courteous and respectful of the needs of these users. All nature strips abutting reserves or Council-managed facilities shall be mown and maintained to the
- same standard as the facilities. - The contractor should use discretion in the selection of appropriate machinery suited to the task and must take into consideration ambient site conditions. Ground surface damage as a result of the use of machinery inappropriate to the conditions will be the responsibility of the contractor to reinstate.

### Monthly

Weeding - Weed garden areas manually or with approved herbicide. Prior approval required for Herbicide use. Approved Herbicide use to be in accordance with regulation rates and manufacturer's recommendation. Protect plants from overspray and avoid if rain is likely within 12 hour period. Prevent reproduction of weeds by removal of seedlings and established weeds before seed set. This work should be carried out regularly at least once a month so that the planted and mulched areas are weed free when observed at monthly intervals. Leaf Litter Removal - Do not remove leaf litter from planted areas unless depth of litter is impacting on plant

growth. Remove leaf litter from pathways Pest & Disease Control - Check for incidence of fungal and insect attack. Avoid use of chemical sprays Apply appropriate treatment for fungal and insect attack if necessary subject to approval

Plant Removal and Replacement - Inspect for failed or dying plants requiring replacement and record probable cause. Replant after dead or failed plant removal.

Mulch - Ensure mulch is kept clear of plant stems at all times. Drainage pits are to be cleared of mulch and other material regularly so that all pits are cleared when observed at monthly intervals or after significant storm events. Check irrigation system is operating correctly.

## Mulching - Reapply mulch to maintain to a depth of 75mm

Plant Fertiliser - Fertilise all plants at specified rates based on soil testing results. Prior approval required for fertiliser use. Slow release fertiliser N:P:K ratio- 18:3:10 at manufacturer's recommended rate per plant. Initial fertilising at planting based on soil testing results

Pruning & Trimming - Shrubs & groundcover - Tip prune to encourage density. Length removed depending on vigour of previous plant growth. Pruning should reflect the natural growth, flowering and regrowth habit of the individual species. Generally prune after flowering. Prune hedges in late Spring. Turf Fertiliser - Apply fertiliser at rates as recommended by manufacture

Turf Mowing - Every 3 weeks in spring & autumn Do not mow under wet conditions. Mow at heights of between 40 to-60mm & remove no more than 1/3 of the leaf blade at any one time. Do not use nylon line type edge trimmers around base of trees. Turf Decompaction & Aeration - Inspect for compaction and thatching. Carry out aeration treatment if required.

Carry out with dethatching or verticutting equipment.

#### Pruning & Trimming - Climbers - Prune long leaders which cannot be reattached to climbing frame. Train leaders onto wires

Turf Mowing - Every 2 weeks in summer. Do not mow under wet conditions. Mow at heights of between 40 to-60mm & remove no more than 1/3 of the leaf blade at any one time. Do not use nylon line type edge trimmers around base of trees.

Turf Fertiliser - Apply fertiliser at rates as recommended by manufacturer.

Furf Mowing - Every 3 weeks in spring & autumn Do not mow under wet conditions. Mow at heights of between 40 to-60mm & remove no more than 1/3 of the leaf blade at any one time. Do not use nylon line type edge trimmers around base of trees.

Pruning & Trimming - Shrubs & groundcover - Tip prune to encourage density. Length removed depending on vigour of previous plant growth. Tip pruning involving the removal of the top 25mm or growing tip of each branch, should be used with shrubs and groundcover to encourage development of new shoots during the active growing season. Be careful not to remove the buds before the flowering season in those plants that have terminal flowers. Prune hedges.

Turf Mowing - Every month in winter. Do not mow under wet conditions. Mow at heights of between 40 to-60mm & remove no more than 1/3 of the leaf blade at any one time. Do not use nylon line type edge trimmers around base of trees

Turf Replacement - Inspect for failed turf requiring replacement and record probable cause.

#### As Required

Pest & Disease Control - Check for incidence of fungal and insect attack. Avoid use of chemical sprays Apply appropriate treatment for fungal and insect attack if necessary subject to approval. If chemical control is considered necessary, these should be mixed and applied in strict accordance with manufacturer's directions. Do not spray in windy or extreme weather.

Plant Removal and Replacement - Replant after dead or failed plant removal. All plants that have died or failed (lost more than 50% of their normal foliage cover) shall be replaced with the same species and commercially available size as the plant to be replaced. Generally plant material shall be uniformly high quality stock equal to best available for 'retail sale'. The root systems shall be balanced in relation to the size of the plant. Plants shall be healthy well grown, hardened off specimens of good shape and free from pests and diseases and in accordance with 'Specifying Trees: a guide to assessment of tree quality' (Clark 2006).

Pruning & Trimming - Remove deadwood from trees if required. Pruning should reflect the natural growth, flowering and regrowth habit of the individual species. Generally prune after flowering. Pruning will be directed at the maintenance of the dense foliage or miscellaneous pruning and beneficial to the condition of the plants to improve plant shape and form or to clear footpaths and driveways. Any damaged growth shall be pruned. All pruned material shall be removed from the site. Train leaders of climber onto wires. Weed Control in Turf - Remove weeds from turf areas manually or with approved herbicide in accordance with

manufacturer's recommendation Turf Replacement - Remove failed turf, prepare surface & lay new turf in accordance with original turf specified. Watering - Grass, trees and garden areas shall be watered regularly so as to ensure continuous healthy growth.

The minimum acceptable watering required is equal to 25mm of natural rainfall or its applied equivalent during each period of one (1) week, around individual plants, maintain a completely weed and grass free watering saucer of a minimum diameter of one (1) metre. Stakes and Ties - Replace or adjust plant stakes, and tree guards as necessary. Adjust ties to give adequate

support to the plants, replace broken or damaged ties as necessary and straighten stakes. Remove stakes and ties after one year.

Mulch - Ensure mulch is kept clear of plant stems at all times. Drainage pits are to be cleared of mulch and other material regularly so that all pits are cleared when observed at monthly intervals or after significant storm events. The overflow area is to be cleared of weeds on a regular basis and particularly after significant storm events. Check irrigation system is operating correctly.

Check paved areas and clean if slippery with a high pressure hose. Check retaining walls and planter boxes for signs of failure. Check seats and tables for signs of wear and tear and ensure all fastenings are secure. Maintain BBQ s per manufacturer's details (if required).

#### Planning for Bushfire:

Stormwater Consultant

Ph: (02) 8544 1683

Greenview Consulting

Note: Design complies with the requirement of an asset protection zone as outlined in the planning for Bush Fire Protection (2019) Appendix 4 of the NSW RFS Standards for Asset Protection Zones. 1. Tree in maturity should not touch or overhang the building.

2. Low limbs should be removed up to a height of 2m above the ground. 3. Grass should be kept mown (no more than 100mm in height)

4. Landscape area should be maintained free of leaf litter and debris. The gutter and roof should be maintained

free of leaf littler and debris. 5. Ground fuels such as fallen leaves, twigs and branches should be removed on a regular basis.

6. Shrubs form 10% of the ground cover.

Architect:



25-29 Prospero Street, Marylan

Project Architect: Stanton Dahl Architects

Mob: 0404 887 620

Ph: (02) 8876 5300 Landscape Consultant: Botanique Design

PLANTING TYPE P1 (Week 1) 150-200mm 300-400mm

100L-400L

1.5 L 3L/

DESIGN REQUIREMENTS

- The Contractor will also provide a short description listing: Features of the irrigation system that help conserve water operations:
- How the risk of root intrusion is addressed - The length of warranty of all equipment provided;

## HEALTH AND SAFETY

services prior to excavation. STOCKPILING

The Contractor is to agree the location of any stockpile areas with the Superintendent in advance. The stockpile location must not interfere with traffic or pedestrian access. The Contractor is to take care to protect materials from the elements as appropriate, and for example should not allow pipes to be exposed to sunlight for prolonged periods of time, or placed in a position where they may be scratched.

### **EXISTING SERVICES**

by the Contractor.

# ENVIRONMENTAL PROTECTION

HOLD POINTS

## designated representative:

- Arrival to site of pipelines and pumps. These are to be inspected to check the integrity and brand of the materials prior to installation. In particular it will be checked that the pipes are not too scratched; - Installation of the pipework prior to backfill. The Superintendent or their representative will visually inspect the irrigation system before it is backfilled. The testing will check that the integrity of the irrigation system is intact and that an adequate supply of water is distributed throughout the pipelines; nd of the irridation prodramm system; and

# AS CONSTRUCTED DRAWINGS

- Practical completion of the works.

**OPERATION MANUAL** 

equipment.

 Operating instructions for the system; Programming instructions for the control system; - Details of all equipment used in the system; - Recommendations for the frequency of irrigation; and

 Full maintenance and servicing instructions. MAINTENANCE PERIOD

The Contractor will be responsible for maintaining the works for 12 months after the issuance of the Certificate of Practical Completion, Towards the end of the Maintenance Period the Superintendent or their representative will inspect the work with a soil moisture probe which is to be supplied by the Contractor. The Superintendent or their representative may direct the contractor to excavate any areas that appear to be of concern due to the state of health of the plants or the results of the soil moisture probe. The excavation and repair of any damaged equipment will be deemed to have been included. Refer to Architectural drawings for fence types, retaining walls, paving and decking details.

IRRIGATION

construction of the irrigation systems.

Contractor is to coordinate with client regarding entitlement boundaries. Irrigation zoning to suit

PERFORMANCE STANDARDS

sufficient water to sustain the gardens specified.

#### The contractor (as part of a Design & Construct (D&C) contract) is to design, supply, and install a sub-surface irrigation system. Irrigation is to be provided to all mass planting areas and tree pits. Refer to Landscape Plan for

There will be one central control room (Location to be confirmed), this is where the timer panel will be located. The solenoid and tap locations are to be confirmed on site by superintendent.

Council states the need to conserve water and this requirement is expected to be factored into the design and

## The Contractor is responsible for the design, supply, and install an irrigation system that will reliably supply The following table presents the assessed water demand for the different types of plants to be planted. It is a requirement that the irrigation system is able to supply at least these quantities of water.

## PERIOD

P2 (Week 2 to 3)	P3 (Week 4 to Week 52)
1.5 L / Day	0.5 L / Days
3 L / Day	1.5 L / Days
9 L / Day	4.5 L / Days

Ongoing Irrigation I / Week 3 L / Week 5L / Week

15L / sqm per week during summer - 7L / sqm per week during winter

Each component of the irrigation system and the overall design is required to confirm to all pertinent Australian

The Contractor's D&C Irrigation Plan will provide the following information for review and approval. - An overview of the system including a sketch plan showing the intended layout; - The pipeline diameter (inner diameter), material, rating and methods of joining (if joints are applicable); - The depth the pipeline will be buried and the off-set distances to any shrubs, paths, road or building; - The brand and model of any pumps to be installed, including a copy of the pump curves and the approximate difference in elevation between from the high and low points of the system and the location of the pump; and - The proposed location and brand of any ancillary equipment such as valves, solenoids, and/or soil moisture probes or measuring gauges and any measures to protect against corrosion.

How the system is designed to operate - for example does it offer flexibility of automatic and manual

 A brief description of the maintenance requirements of the system; - Any additional features of the system which is considered to enhance water conservation.

The Contractor will be responsible for Health and Safety of the works and ensuring any excavations are adequately barricaded and or covered. The Contractor is also to ensure that they know the location of existing

The Contractor will be held responsible for any damage to existing services or infrastructure on the site caused

The Contractor is to manage the works in a way that will protect the environment. This is expected to include stopping sediment entering the stormwater drains, and avoiding wasting water. Any costs associated with protecting the environment are to be incorporated into the Contractor's fee.

The Contractor will provide 48 hours notice for the following inspections from the Superintendent or their

The Contractor shall submit "As Constructed" drawings of the irrigation system before Practical Completion will be awarded. The As Constructed drawings will be prepared to the same scale and on the same sized standard sheets as the approved design drawings and will show the locations and depths of all pipelines and ancillary

The Contractor will provide an Operating Manual prior to Practical Completion which will contain:

The Contractor will provide two copies of the Operation Manual to the Superintendent.

General Housing Development | Landscape Specification and Maintenance Plan

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230318 25-29 Prospero St, Maryland Landscape.pln

Plotted: 10/5/2023 9:41 am

Stage:

Part 5

Drawing:

L03

Status: Part 5 Activity Submission S d iob no:

10/5/2023 @ AI 2869.23 Drawn: MM Sheet:

Project n BGWY9 ML

Checked: ML 3 **O**