MOIRE SHIRE COUNCIL NUMURKAH FLOOD PLAN MEVILLE ST ROSE GARDENS - LANDSCAPE WORKS



LANDSCAPE LEGEND

NEW EXPOSED AGGREGATE CONCRETE (REFER DETAIL ?/LD0?)

NEW STANDARD GREY CONCRETE NEW CHARCOAL COLOURED CONCRETE

NEW GRANITIC GRAVEL PAVING

NEW CONCRETE EDGE STRIP (150MM) (REFER DETAIL DETAIL ?/LD0?)

NEW CONCRETE SEATING WALL (REFER DETAIL ?/LD0?)

(REFER DETAIL ?/LD0?)

(REFER DETAIL ?/LD0?)

(REFER DETAIL ?/LD0?)

CONCRETE FLOOD WALL -REFER CIVIL WORKS DOCUMENTS

MAKE GOOD EXISTING GRASSING (REFER DETAIL SPECIFICATION)

NEW EXPOSED AGGREGATE CONCRETE (REFER DETAIL ?/LD0?)

NEW FLORAL GARDEN BED - PREP TYPE 1 (REFER DETAIL ?/LD0?)

NEW ROSE GARDEN BED - PREP TYPE 1 (REFER DETAIL ?/LD0?)

NEW NATIVE GARDEN BED - PREP TYPE 2 (REFER DETAIL SPECIFICATION)

NEW PICNIC TABLE ON CONCRETE PAD (REFER DETAIL ?/LD0?)

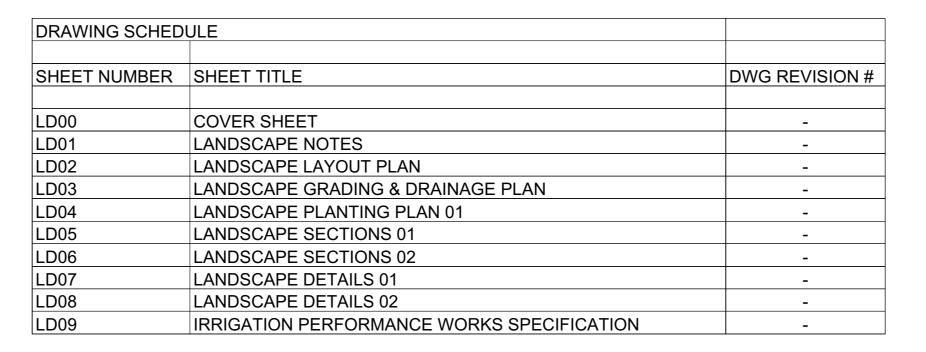
NEW DRINKING FOUNTAIN ON CONCRETE PAD

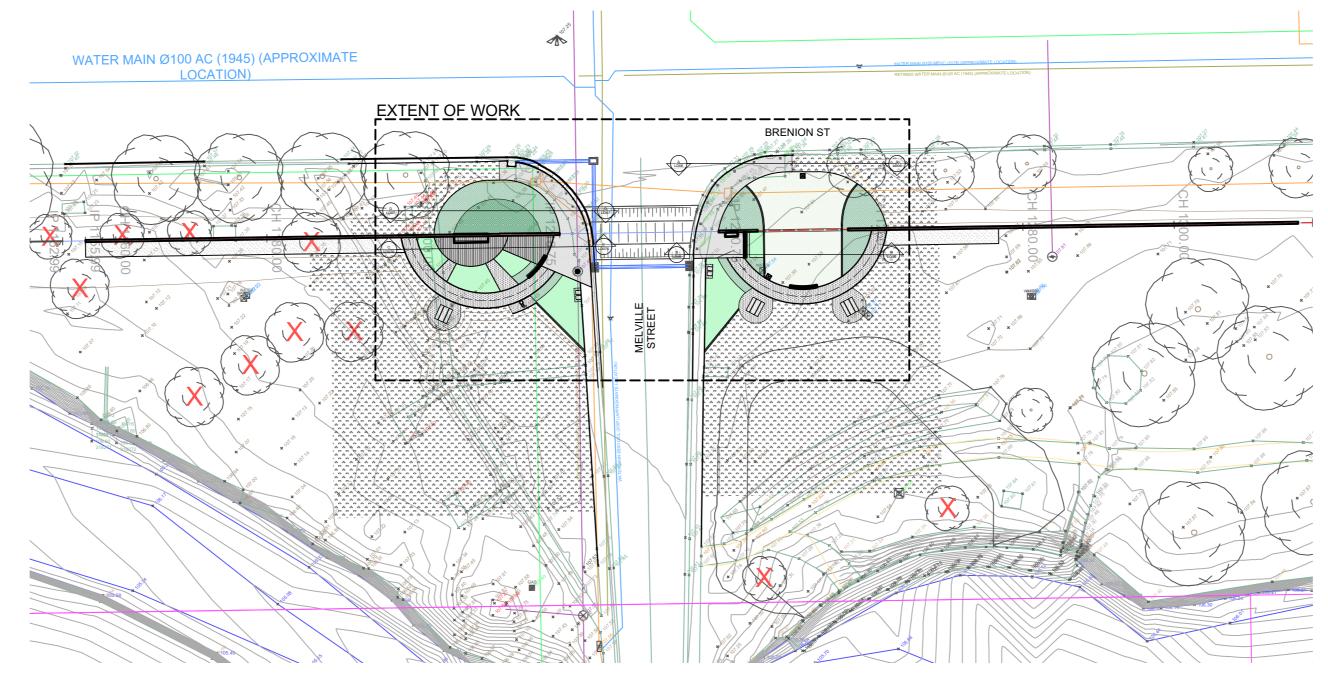
(REFER DETAIL ?/LD0?) NEW WALL MOUNT TIMBER SEAT. (REFER DETAIL ?/LD0?)

NEW CUSTOM ROSE OBALISK (REFER DETAIL & SPECIFICATION)

NEW LITTER & RECYCLE BIN UNITS ON CONCRETE PAD. (REFER DETAIL ?/LD0?)

SECTION / ELEVATION MARKER WITH SHEET REFERENCE.





DRAWING TO BE READ IN CONJUNCTION WITH THE CURRENT VERSION OF INFRASTRUCTURE DESIGN MANUAL STANDARD DRAWINGS

BEWARE OF EXISTING OVERHEAD ELECTRICAL CABLES

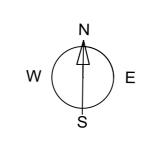
EWARE OF UNDERGROUND SERVICES APPROXIMATE ONLY & THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS



NOT FOR CONSTRUCTION

Preliminary Documentation Issue 16.02.24 DATE APVD REV REF DESCRIPTION

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DESIGNED:NS 28.08.23 APPROVED-DRAWN: NS 01.22.24 CHECKED: -THIS DRAWING IS SUBJECT TO CHANGE WITHOUT NOTICE AND MAY ONLY BE USED FOR THE PURPOSE FOR SCALE:..NTS @A1 WHICH IT WAS COMMISSIONED. ALL DIMENSIONS AND LEVELS TO BE CHECKED ON THE PORPOSE FOR COMMENCING ANY WORKS ON SITE. DIMENSIONS TAKE PRIORITY OVER SCALED MEASUREMENTS.



MOIRA SHIRE COUNCIL NUMURKAH FLOOD PLAN

MELVILLE STREET ROSE GARDENS LANDSCAPE COVER SHEET DRAWING NO.: 3112/LD01 Revision: -

PROJECT NO.: 3112

Sheet No.:1 of 10

LANDSCAPING GENERAL NOTES:

HERBICIDE APPLICATION (GRASS)

At least two weeks prior to the commencement of landscape works spray all grass and undesirable plants within the proposed garden bed / planting / grass areas with an approved systemic herbicide (e.g active ingredient glyphosate). Herbicide shall be applied in accordance with the manufacturers instructions.

SUBGRADE PREPARATION

Following herbicide application as per above, Remove all weed growth from proposed planting beds and grassed areas. Ensure all foliage, fruit and root matter is removed from the prepared topsoil. Cultivate proposed garden beds grassed areas in accordance with profile details. Remove all building rubble and other debris. Incorporate gypsum (by cultivation) at the rate of 200 grams per sq. metre to cultivated subgrade for both grassing and garden bed areas.

The Civil works contract includes placement of 150mm of reclaimed site topsoil to garden bed and grassing area locations. The landscape works contractor will be responsible for soil testing, amelioration, as well as final trim and grade of garden bed and grassing areas. If required all Imported topsoil shall be an approved clay loam, and generally in accordance with AS 4419. The Contractor will be required to provide a representative sample of any imported topsoil (2kg) together with an analysis of the soil.

Site topsoil shall be ameliorated in accordance with soil testing and must be fit to support plant growth.

The Contractor shall make allowance for maintenance requirements, especially weed control, associated with site topsoil weed seed bank/seed germination up to Practical Completion. No claims shall be considered for failure to comply with this condition.

TOPSOIL AMELIORATION

The Contractor must allow to undertake soil testing and to check the pH and quality of existing topsoil prior to ameliorating landscape works areas.

Unless proven otherwise (via testing), the contractor shall allow for: FULLY FINISHED ORGANIC COMPOST (to approval) to be added to the prespread topsoil. DO

NOT MECHANICALLY TILL the organic topsoil through. Compost shall be manually raked only through the top 50mm of the profile.

Unless proven otherwise (via testing) the organic compost shall be applied at a rate of 4lts/m2.

Moisture levels - Following amelioration of grassing topsoil, the contractor MUST monitor moisture levels to sure 25% moisture level is maintained for seed germination. The compost material may reduce moisture levels initially - MONITOR.

MAKE GOOD GRASSING

Method of broad scale 'Make Good Grassing' (sprigging or hydroseeding) shall be determined by Council and the Superintendent based on construction timing and the Contractor shall allow for both options in his/her tender.

The Contractor shall allow to hydroseed/sprig areas shown on the Drawings as 'Make Good Grassing'. Do not install seed/sprig in unsuitable weather conditions such as extreme heat, cold, wind, rain or during frost periods.

If applying at times others than Spring or Summer, apply for direction from the Superintendent. Sprigging - The Contractor shall allow to supply and install kikuyu turf sprigs, as supplied by Kentucky Turf Nursery, or similar approved equivalent, to required areas. Hydroseeding - Use fresh, clean, uncoated new seed. Do not use wet, mouldy, or otherwise impaired seed. Deliver to the site in bags marked to show weight, seed species and supplier's name.

Hydroseed mix shall be 70% Kikuyu & 30% Perennial Rye Grass.

Grass shall be sown when rainfall is expected. The Contractor shall make all allowances for supplementary watering as required to establish seeded grass areas and maintain prior to Practical Completion and during the maintenance period. No claims shall be considered for failure to comply with this condition. The contractor MUST ensure all species types in the mix sprout prior to cutting back germination grassing.

The minimum grass coverage in the reserve at the time of handover to Council is to be a minimum of 95% coverage and all species within the selected mix MUST be present.

Reserve area grassing

Reserve grass areas are to be cultivated to 100mm depth and prepared to a suitable tilth for sowing with the specified seed mix. Evenly spread an approved Starter Fertiliser (recommended N.P.K. ratio 10:4:6 + Trace Elements) at 300kg/ha.

Watering

Water seeded area immediately after sowing until the topsoil is moistened to its full depth. Continue watering to maintain moisture to this depth. Maintain the germinating grass in a healthy condition with correct applications of water, fertiliser etc. to sustain a healthy, vigorous growing grass sward.

Mow to maintain the grass height within the 50 - 100mm height range. Remove all grass clippings from the site after each mowing.

Maintenance

Maintain the seeded areas until the attainment of a dense continuous sward of healthy and evenly green grass over the entire area. Where required, cultivate and re-seed areas of seeded lawn where germination / survival is poor.

Top dress subsided areas as required and re-sow. Ensure the junction between footpaths and lawns is finished to form a flush, even, uniform and safe joint.

Protection

The Contractor shall protect the newly grassed areas against trespass and traffic for minimum period of 4 weeks - particularly during wet conditions, or as long as required to ensure topsoil consolidation and the proper establishment of the grass which will not be damaged by normal / day to day activities.

<u>MULCH</u>

The contractor shall supply and spread a 75mm deep layer of an approved bark type organic mulch, clear of plant stems, to all garden bed areas and around all existing and newly planted trees as shown in the Drawings. Ensure top of mulch finishes 20mm below adjacent paved surfaces. In general mulch shall be in accordance with AS 4454: neutral pH, free of soil, weeds, vermin, deleterious material and toxins. Mulch shall be kept clear of plant stems to avoid collar rot. Organic type mulch shall be 75mm Border Bark or similar approved.

PLANT SUPPLY GENERAL

The contractor shall confirm supply of all plants at the earliest opportunity following letting of the contract. The contractor shall make no substitutions unless approved by the Superintendent. The contractor shall order sufficient quantities to allow for plant failures. The contractor shall deliver plant material to the site on a day-to-day basis, and plant immediately after delivery. Plants shall not be stored on site unless authorised. The contractor shall not carry out potting-on unless authorised by the Superintendent.

TREE / PLANT STOCK

The contractor shall supply plants are to be true to species, healthy and free from pests, disease and stress. Stock must be hardened off and suitable in the natural climatic conditions prevailing at the

* Where possible indigenous plant species shown on the plant schedules shall be propagated from sources of local provenance from the closest possible natural plant source of similar genetic

* Where possible the plant nursery shall provide documentation of seed and cutting collection locations of all species.

* When specified plants are not available, substitute plants may only be used following approval from the Landscape Architect and Council. * Plants are to be purchased in the nominated pot size, unless approved by the Landscape Architect

or Council to vary the pot size from that specified. * Plants shall show healthy growth, be undamaged, free of disease, have a size in proportion to their

pot size and species, not be pot bound and shall generally have roots penetrating to the edge of the

The contractor shall check the condition of plants before taking delivery. All plants accepted by the contractor shall be healthy, vigorous, well established and have normal habits and proportions of growth typical of their species. Plants shall be free from insects, eggs, larvae, disease, weeds and other defects. All plants shall be suitably hardened off in the nursery prior to delivery to the site. All stock shall be labelled with the correct botanical name and shall be checked by the contractor

FERTILISER - PROPOSED CHANGE TO COMPOST TEA ADDITION ONLY NO FERTILIZER!

Add fertiliser at time of planting to planting holes.

Use Osmocote Native for native stock - Typical.

45Ltr with 100 grams of 'Osmocote' slow release fertiliser...

250mm dia & 300mm dia (10"&12") pots with 100 grams of 'Osmocote' slow release fertiliser... For plants in tubes - 200mm dia (8") pots fertilise with 20gms of 'Osmocote'.

PLANTING SCOPE

before acceptance on site.

Planting is to be undertaken to the various areas nominated in the Landscape Plans and in accordance with this specification.

The scope of planting works is to include:

- Trees (semi-advanced stock) Tubestock/hikocell planting
- Timber mulching
- Staking of trees / shrubs (if applicable)

Vermin control (if applicable)

PLANTING PROGRAM / TIMING The contractor shall prepare a planting program to plant all planting zones as indicated on the Landscape Drawings and this Specification. The planting program should incorporate the pre-planting ground preparation program.

All planting and tube stock supply is to be programmed to be undertaken during optimum planting seasons to maximise the optimum plant establishment period prior to the commencement of the summer season.

- The contractor shall submit programs for the following tasks at the commencement of the contract:
- · a pre-planting ground preparation program
- a weed control program
- a planting program for each of the nominated zones a post planting maintenance program including plant replacement program.

Where the construction / development program permits, planting should ideally be undertaken during early May to late August. This timing should maximise plant establishment before summer and minimise watering

requirements. Where the construction / development schedule does not allow for planting within the optimum months the contractor should allow within the quote for additional watering to ensure good growth and survival for the at least two (2) summers after planting.

PLANTING SET-OUT

All planting to be undertaken by experienced contractors with a detailed knowledge of the species, preferred ground / soil conditions, growth habits etc. for the indigenous flora of the local district.

The Contractor shall set out the location & shape of planting beds and / or the location of individual plants in accordance with the Drawings by:

- referring to drawing dimensions
- by reference to existing features as shown on the drawings by complying with plant number and density requirements as shown in the plant schedules / drawings.

Ongoing on-site liaison with the consulting engineers and / or landscape architect will be required to ensure that the planting intent is achieved. Allow for a flexible planting program to suit weed control timing, site features and seasonal conditions.

Ensure a minimum mower clearance of 1.2m around all trees, garden beds, structures etc. in all grassed area.

The Contractor shall arrange for the consulting engineer / landscape architect, or a nominated representative, to be on site for plant set-out and sign-off on the set-out prior to planting commencing.

PLANTING PROCEDURE FOR TUBESTOCK

The following provides a step-by-step description of the recommended planting procedure for tubestock and Hiko-cells:

· On the day prior to planting soak plants thoroughly before planting by submerging them in water until air bubbles cease to rise from the pots. The root ball of the seedling must not be allowed to dry out prior to planting.

· Do not plant in rip lines - plant within 100 to 200mm of the rip line.

· Using a 'Hamilton Tree Planter' remove a core of soil the same shape and size as the root ball, ensuring that the hole is between 5 to 15mm deeper than the root ball

· Remove the seedling from the container by up-ending the tube and tapping it on the edge of the tree planter, ensuring that the plant is supported and the root ball does not disintegrate. Support the root ball of the plant as it is placed into the hole.

· Ensure that the top of the root ball is just below the level of the surrounding surface level. Ensure that the seedling is planted deeper rather than shallower to minimise the drying out of the root ball. Ensure no surface roots of the seedling are exposed.

· Firm-in the seedling by applying pressure with the heel of a boot at three or four points around the seedling. Gently pull upwards on the seedling to ensure there is no movement and that the seedling is firmly planted.

· Fit a vermin-proof tree guard (where vermin numbers are at sufficient levels to require protection by tree guards).

· Where mulching is specified, spread the mulch to the specified depths and ensure that the mulch is kept free of the stem of the plants. Do not use mulch containing weed material.

· Do not plant the seedlings into the mulch layer. Ensure the seedlings are planted (as specified) fully into the soil layer with the mulch layer over the top.

WATERING & AFTERCARE

Watering and aftercare following planting and for the contract maintenance period shall generally be as described below:

• The site should be regularly monitored for moisture stress and all plants watered as required to ensure strong, healthy

seedling growth is maintained throughout the Contract period. · Plants should be regularly checked for signs of insect attack and disease and appropriate actions

taken to control the disease or infestation. · Replace dead plants at the earliest opportunity (depending upon seasonal conditions), with the same species / provenance.

· Ensure the site is regularly monitored and managed to control and eradicate any weeds that germinate after planting for the entire period of the contract.

· All planting and grassed areas shall be maintained in a 100% noxious weed free state and in a minimum 95% weed free state.

PLANTING PROCEDURE FOR SEMI ADVANCED TREES Refer to planting details.

Provide 3 no. 38mm x 38mm hardwood stakes pointed at one end. per tree. Refer length of stakes for various pot sizes below. These shall be driven 600mm into ground, clear of rootball, offset from services min 200mm, and positioned to avoid structural damage to branches.

1800mm long stakes shall be used for 140-200mm pot sized trees. 2400mm long stakes shall be used for 300mm-45Ltr pot sized trees

Provide min. 150mm depth organic timber mulch, spread minimum 1200mm diameter from centre of

TRIMMING AND FINISHED LEVELS

The Contractor shall adjust and trim sub soil levels so that sub soil is placed / graded to the nominated levels and gradients as specified prior to topsoil placement. The specified depth of topsoil and/or mulch shall then be added and tapered so that the finished mulch and/or topsoil levels meets flush with the adjacent finished surface levels.

Ensure that the finished levels of the naturestrips / reserves grade towards the nominated drainage points without ponding.

A representative sample of ameliorated topsoiling and any associated ground trimming, not less than 100m2 in area shall be made available for review by the consulting engineer and / or landscape architect prior to the commencement of the balance of the relevant work. The accepted ameliorated topsoil and any associated ground trimming shall be used as a reference standard for the remaining work to be completed under the Contract.

SUPPLY AND APPLICATION OF HERBICIDES AND INSECTICIDES

Only herbicides and insecticides registered for use in Victoria for the specific purpose may be used. All herbicides / insecticides shall be applied in accordance with manufacturers recommendations / rates for the control of the specific plant / insect.

MAINTENANCE AFTER PRACTICAL COMPLETION

Scope of Maintenance

The Contractor shall maintain the whole of the landscape work performed under this Contract until the completion of the Maintenance Period. The Maintenance Period shall commence from the Date of Practical Completion for 12 months or required by Council for all street trees, streetscape planting beds and reserve landscape works, as specified in the Planning Permit.

Maintenance of the landscape work shall include:

- replanting / replacement of dead trees / seedlings / cells
- woody weed control / broad-leaved weed control iii watering of all trees and landscape areas as required for plant establishment
- iv mowing / slashing
- v re-seeding of seeded exotic and native grass areas (if / as required) vi pest and disease control
- vii re-mulching to maintain specified mulch depths
- viii pruning ix maintaining the site in a neat and tidy condition
- x maintenance / removal of tree guards and stakes
- xi repairs to erosion affected areas (as required)

xii maintenance and rehabilitation of stockpile areas.

NOT FOR CONSTRUCTION

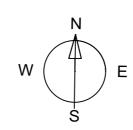
GENERAL NOTES

16.02.24 Prelinary Documentation Issue **DESCRIPTION** DATE APVD REV REF

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CHECKED: -Documentation Draft

28.08.23

01.22.24



NOTE - PLANT REPLACEMENT

the maintenance period.

Replacement Materials

Replanting / Resowing

Weed Control

Watering

consecutive growing seasons.

throughout the maintenance period.

FURNITURE SUPPLY AND INSTALLATION

be removed from the site.

construct criteria.

Joint Inspections

died during the maintenance period.

handover and acceptance by Council.

specification, the drawings and plant schedules.

It is the landscape contractors responsibility to supply and replace plant material that has

It is the principal / developers responsibility to cover the costs of paying for plant material

Plants will need to be replaced and show signs of strong growth / development before

Joint inspections shall be undertaken by the Contractor and consulting engineer and / or

period. Any remedial work shall be performed within two weeks of the date of inspection

landscape architect at three monthly intervals after commencement of the maintenance

or during the following planting season following written documentation of the defect.

All replacement materials used to be in accordance with the requirements of this

All plants (including any replacement plants) are required to clearly indicate healthy

growth at the completion of the maintenance period by demonstrating growth through

Plants which die or do not show satisfactory growth within the maintenance period shall

be replaced and resown / replanted by the Contractor at the Contractor's expense. The

Contractor shall program and allow for the supply and propagation of plants whether by

All planting and grassed areas shall be maintained to a 95% noxious weed free state.

Prior to final acceptance of the landscape works by Council, all broad-leaved and other

weeds should be eradicated. Utilise the most appropriate method of weed control for

injection and physical weed removal. Do not undertake weed control / eradication works

All plants to be watered as necessary to ensure continued healthy and vigorous growth

Grassed areas shall be mown when the height of the grass exceeds 100mm. Areas

The Contractor shall refer to 'LD09 - Irrigation Performance Specification' for design

Furniture supply and installation shall be in accordance with the Landsape Layout Plan

and Construction Details. Ordering and supply of furniture shall be by.......TBC

which have been cut shall have a minimum grass height of 50mm. All grass clippings to

each weed type including direct spraying of herbicide, cut - stump treatment, stem

when the plant is seeding to avoid the potential of further spreading the weed seeds.

seed or cutting as required for any replanting during the current or next available planting

that has either been stolen or that has been damaged by builders / tradesman etc. during

MOIRA SHIRE COUNCIL NUMURKAH FLOOD PLAN

MELVILLE STREET ROSE GARDENS

LANDSCAPE GENERAL NOTES

DRAWING NO.: 3112/LD01 PROJECT NO.: 3112

Revision: -Sheet No.2 of 10

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DESIGNED:NS

DRAWN: NS

APPROVED-

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