



PROJECT


WOODBURN RIVERSIDE
STREETScape DESIGN

FOR
RICHMOND VALLEY COUNCIL
VP331513

DWG NO	REV	DWG NO
LA00.....	A.....	PROJECT COVER PAGE, SHEET INDEX AND SITE PLAN
LP01.....	A.....	LANDSCAPE PLAN
LP02.....	A.....	LANDSCAPE PLAN
LP03.....	A.....	LANDSCAPE PLAN
LP04.....	A.....	LANDSCAPE PLAN
LP05.....	A.....	LANDSCAPE PLAN
LP06.....	A.....	LANDSCAPE PLAN
LP07.....	A.....	LANDSCAPE PLAN
LP08.....	A.....	LANDSCAPE PLAN
LP09.....	A.....	LANDSCAPE PLAN
LP-S01..	A.....	LANDSCAPE SECTION
LP-S02..	A.....	LANDSCAPE SECTION
LP-S03..	A.....	LANDSCAPE SECTION
LP-D01..	A.....	LANDSCAPE DETAIL
LP-D02..	A.....	LANDSCAPE DETAIL
LP-D03..	A.....	LANDSCAPE DETAIL
LP-D04..	A.....	LANDSCAPE DETAIL
LP-N01..	A.....	LANDSCAPE SPECIFICATION
LP-N02..	A.....	LANDSCAPE SPECIFICATION
LP-N03..	A.....	LANDSCAPE SPECIFICATION


Locality Plan-Scale 1:1000

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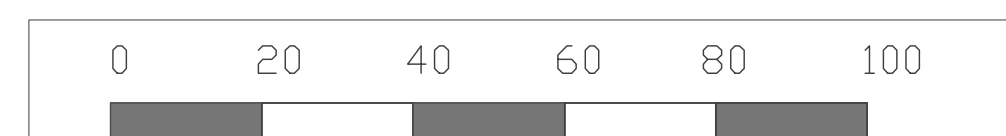


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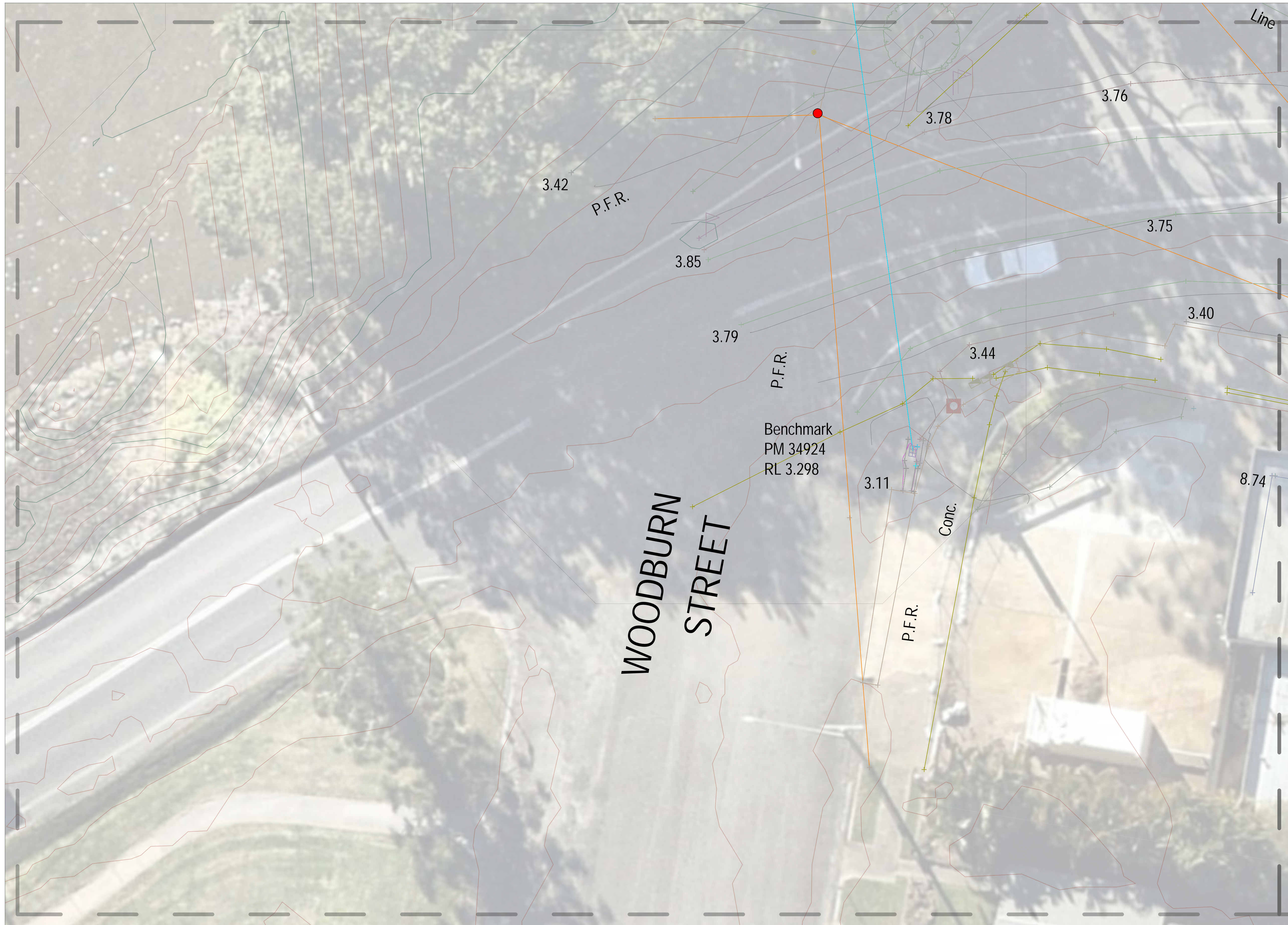
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Greg Alderson and Associates



ISSUE	DESCRIPTION	DESIGN	DRAWN	DATE
A	PRELIMINARY	MP	MP	15_12_2023

NOT FOR CONSTRUCTION		
PROJECT WOODBURN RIVERSIDE STREETScape DESIGN	SITE SCALE AT A1	1:1000
DRAWING TITLE	SCALE AT A3	1:2000
COVER AND DRAWING INDEX		
DRAWING NUMBER EFWRSD-LP-00		



Locality Plan-Scale 1:5000

-  WSUD-LANDSCAPED GARDENS SEPARATING ROAD AND PEDESTRIAN PAVEMENT
-  GRATED DRAIN AND EXPOSED AGGREGATE PAVING WITHIN RETAIL AND DINING PRECINCT
-  STONE WALLING AND SEATING
-  ALFRESCO DINING
-  WOMBAT CROSSING
-  LANDSCAPED CENTRAL TRAFFIC ISLAND
-  PARALLEL PARKING RIVER STREET STREET TREES IN TRAFFIC ISLANDS AND PITS
-  TRAFFIC CALMING-RAISED PAVEMENT MARKING AND TEXTURE
-  SANDSTONE SEATING AND BOLLARDS
-  PARALLEL DISABILITY PARKING
-  PROPOSED TREES
-  SIGNAGE
-  DISABILITY PARKING

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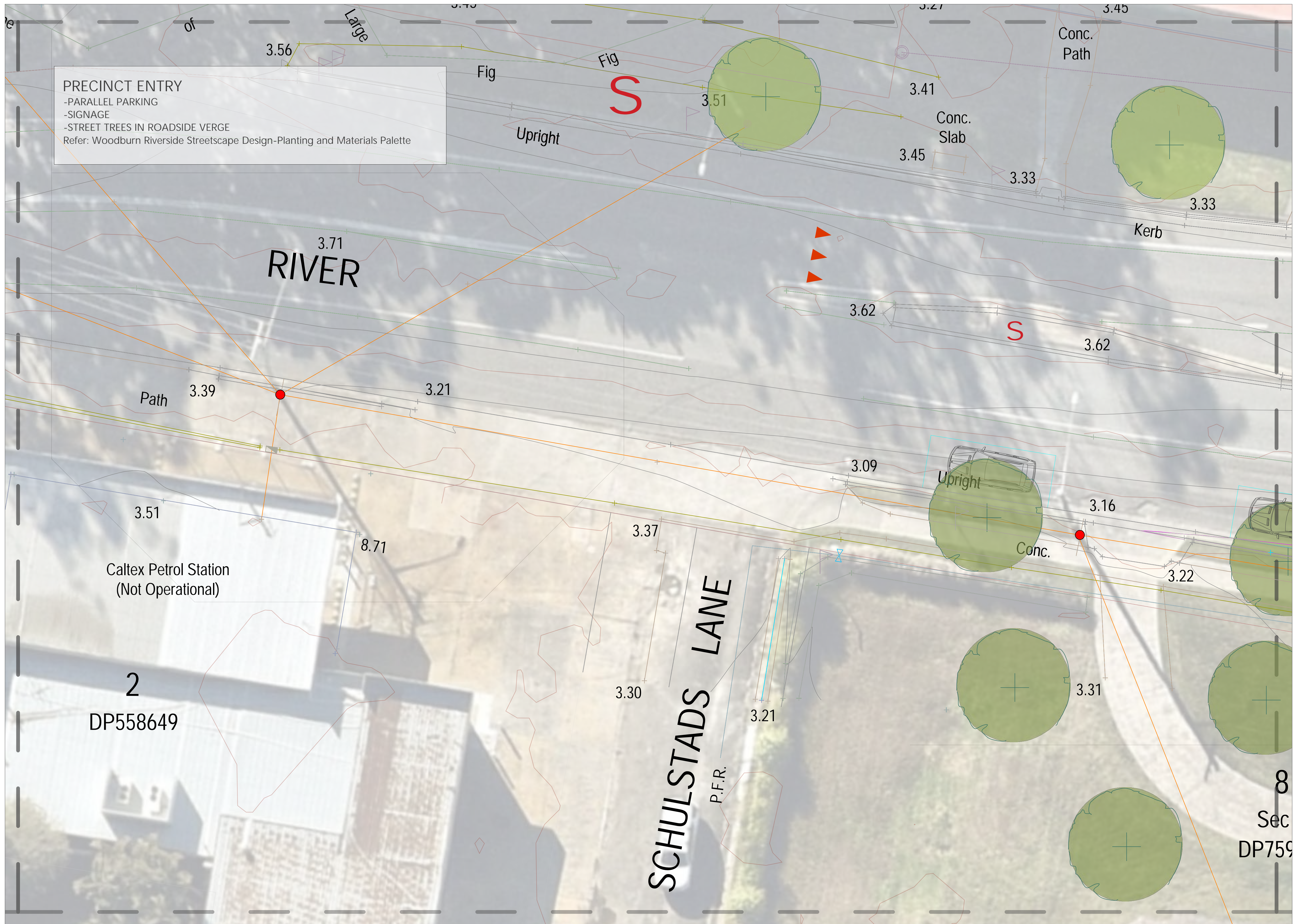
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ISSUE	DESCRIPTION	DESIGN	DRAWN	DATE
A	PRELIMINARY	MP	MP	15_12_2023

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PROJECT WOODBURN RIVERSIDE STREETScape DESIGN	SITE SCALE AT A1	1:100
DRAWING TITLE LANDSCAPE PLAN	SCALE AT A3	1:200
DRAWING NUMBER EFWRSD-LP-01		



PRECINCT ENTRY
 -PARALLEL PARKING
 -SIGNAGE
 -STREET TREES IN ROADSIDE VERGE
 Refer: Woodburn Riverside Streetscape Design-Planting and Materials Palette



Locality Plan-Scale 1:5000

-  WSUD-LANDSCAPED GARDENS SEPARATING ROAD AND PEDESTRIAN PAVEMENT
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-  PARALLEL DISABILITY PARKING
-  PROPOSED TREES

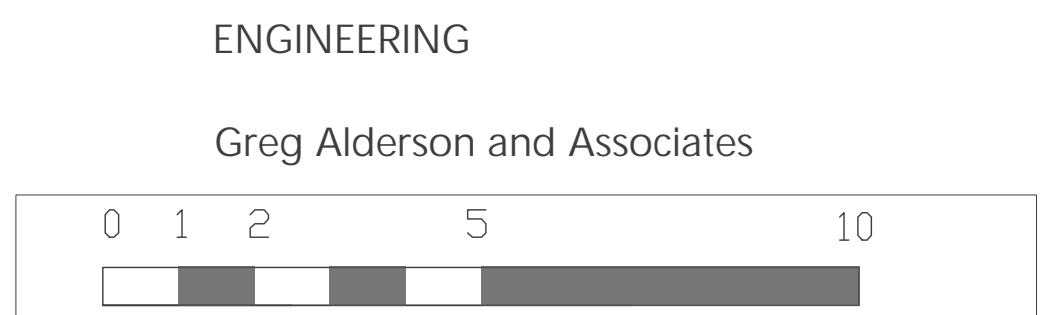
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PROJECT WOODBURN RIVERSIDE STREETSCAPE DESIGN	SITE SCALE AT A1	1:100
DRAWING TITLE LANDSCAPE PLAN	SCALE AT A3	1:200
DRAWING NUMBER EFWRSD-LP-02		

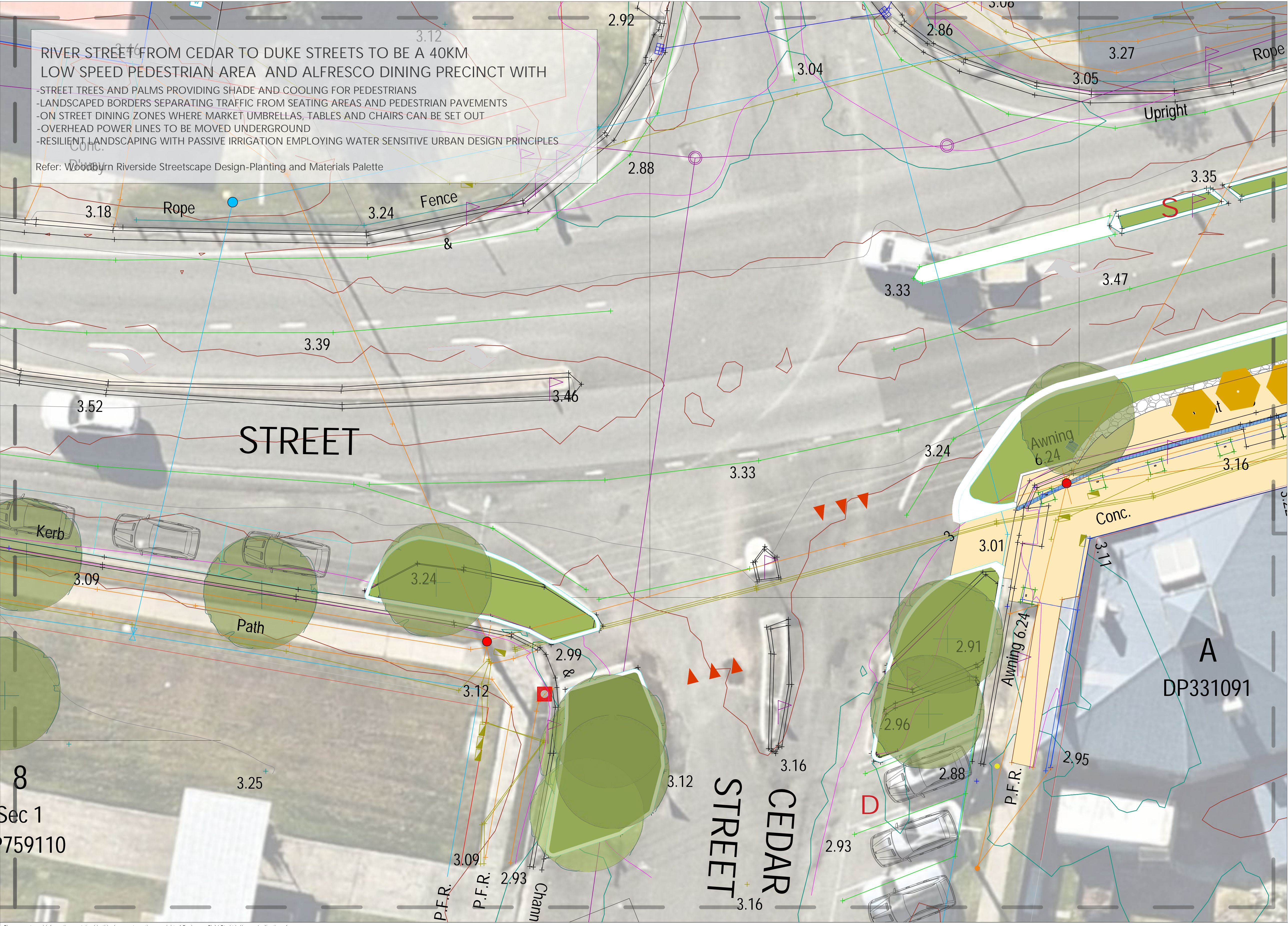
RIVER STREET FROM CEDAR TO DUKE STREETS TO BE A 40KM LOW SPEED PEDESTRIAN AREA AND ALFRESCO DINING PRECINCT WITH

- STREET TREES AND PALMS PROVIDING SHADE AND COOLING FOR PEDESTRIANS
- LANDSCAPED BORDERS SEPARATING TRAFFIC FROM SEATING AREAS AND PEDESTRIAN PAVEMENTS
- ON STREET DINING ZONES WHERE MARKET UMBRELLAS, TABLES AND CHAIRS CAN BE SET OUT
- OVERHEAD POWER LINES TO BE MOVED UNDERGROUND
- RESILIENT LANDSCAPING WITH PASSIVE IRRIGATION EMPLOYING WATER SENSITIVE URBAN DESIGN PRINCIPLES

Refer: Woodburn Riverside Streetscape Design-Planting and Materials Palette



Locality Plan-Scale 1:5000



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ISSUE	PRELIMINARY DESCRIPTION	MP DESIGN	MP DRAWN	18_12_2023 DATE
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PROJECT WOODBURN RIVERSIDE STREETSCAPE DESIGN	SITE SCALE AT A1	1:100
DRAWING TITLE LANDSCAPE PLAN	SCALE AT A3	1:200
DRAWING NUMBER EFWRSD-LP-03		

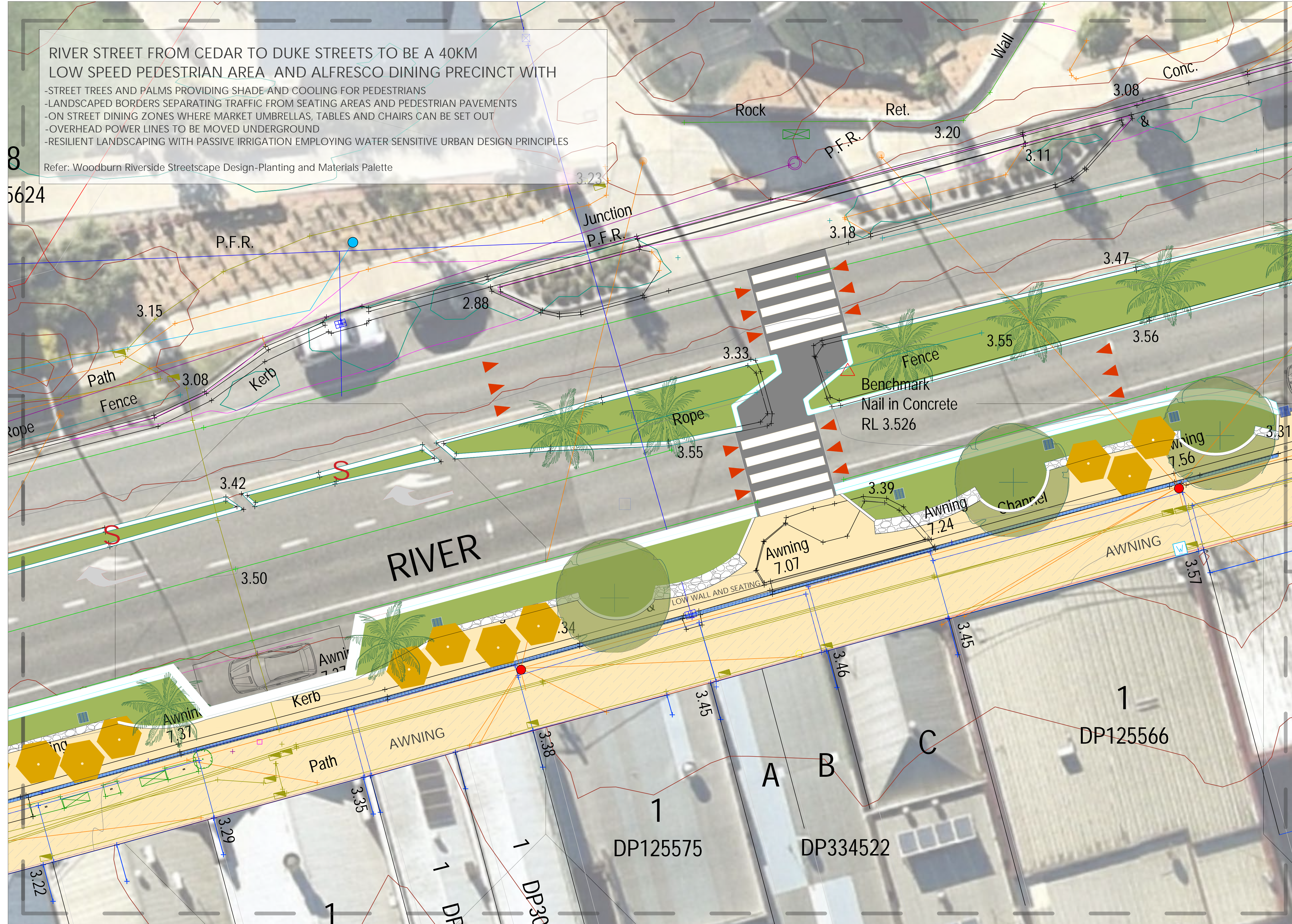
RIVER STREET FROM CEDAR TO DUKE STREETS TO BE A 40KM LOW SPEED PEDESTRIAN AREA AND ALFRESCO DINING PRECINCT WITH

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Locality Plan-Scale 1:5000



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- PROPOSED TREES

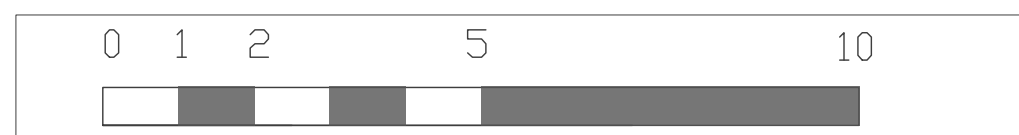
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PROJECT WOODBURN RIVERSIDE STREETSCAPE DESIGN	SITE SCALE AT A1	1:100
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DRAWING NUMBER EFWRSD-LP-04		

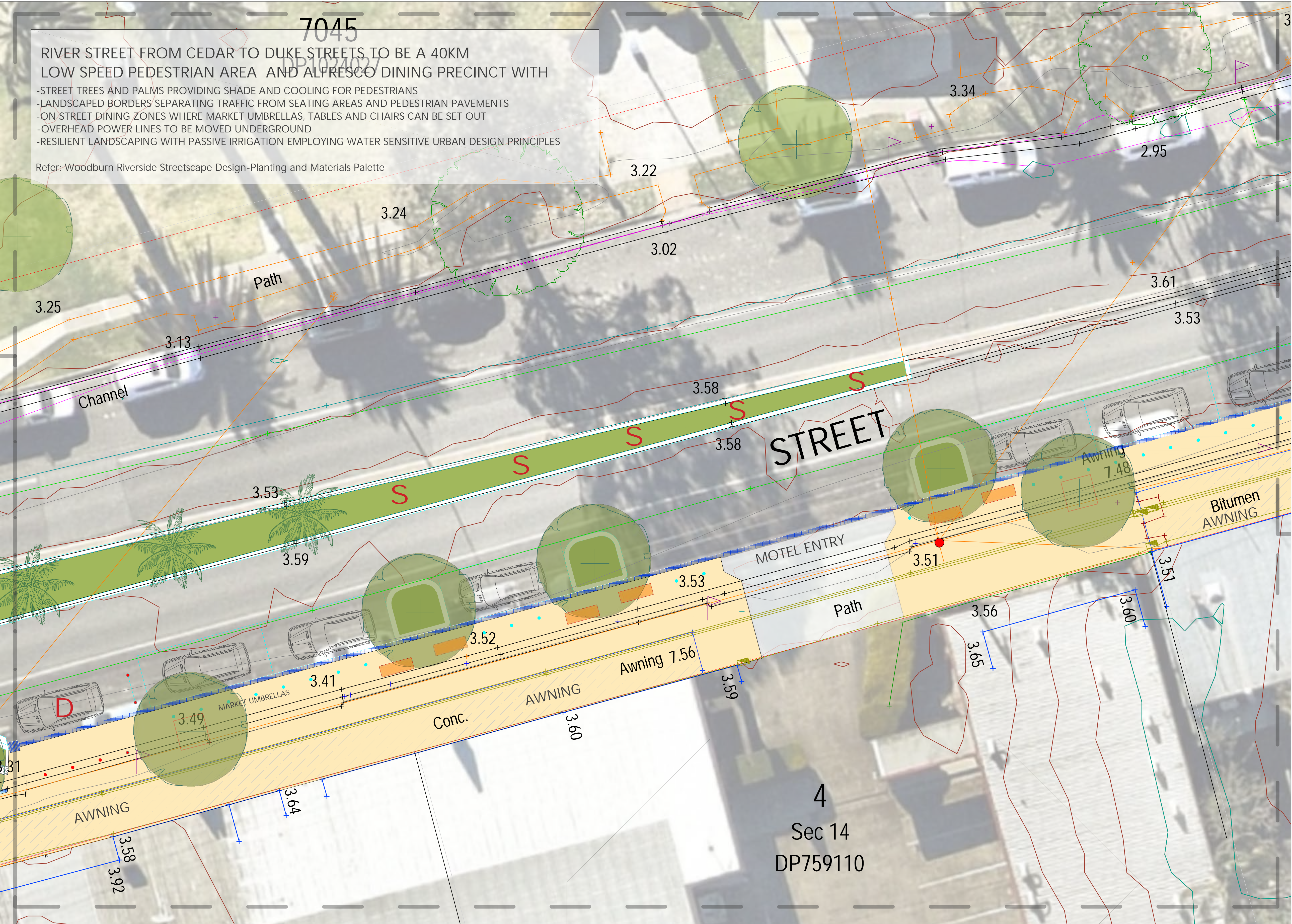
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 RIVER STREET FROM CEDAR TO DUKE STREETS TO BE A 40KM
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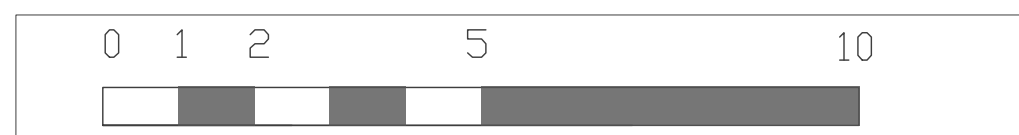
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DRAWING NUMBER EFWRSD-LP-05		

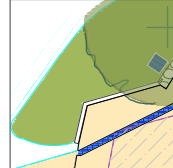
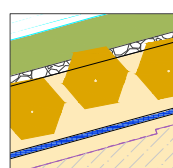
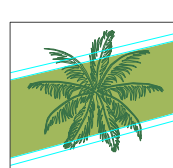
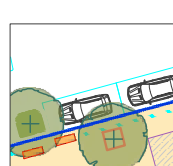
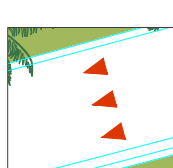
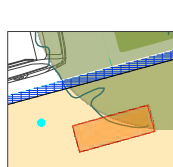
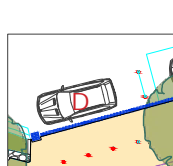
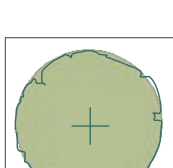


**RIVER STREET FROM CEDAR TO DUKE STREETS TO BE A 40KM
LOW SPEED PEDESTRIAN AREA AND ALFRESCO DINING PRECINCT WITH**

- STREET TREES AND PALMS PROVIDING SHADE AND COOLING FOR PEDESTRIANS
- LANDSCAPED BORDERS SEPARATING TRAFFIC FROM SEATING AREAS AND PEDESTRIAN PAVEMENTS
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- RESILIENT LANDSCAPING WITH PASSIVE IRRIGATION EMPLOYING WATER SENSITIVE URBAN DESIGN PRINCIPLES

Refer: Woodburn Riverside Streetscape Design-Planting and Materials Palette



Locality Plan-Scale 1:5000

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-  GRATED DRAIN AND EXPOSED AGGREGATE PAVING WITHIN RETAIL AND DINING PRECINCT
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-  SANDSTONE SEATING AND BOLLARDS
-  PARALLEL DISABILITY PARKING
-  PROPOSED TREES
-  SIGNAGE
-  DISABILITY PARKING

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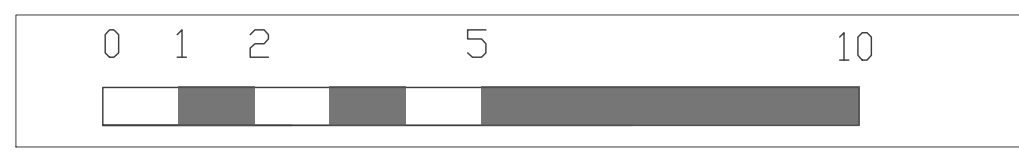
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ISSUE	PRELIMINARY DESCRIPTION	MP DESIGN	MP DRAWN	15_12_2023 DATE
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PROJECT WOODBURN RIVERSIDE STREETSCAPE DESIGN	SITE SCALE AT A1	1:100
DRAWING TITLE LANDSCAPE PLAN	SCALE AT A3	1:200
DRAWING NUMBER EFWRSD-LP-06		

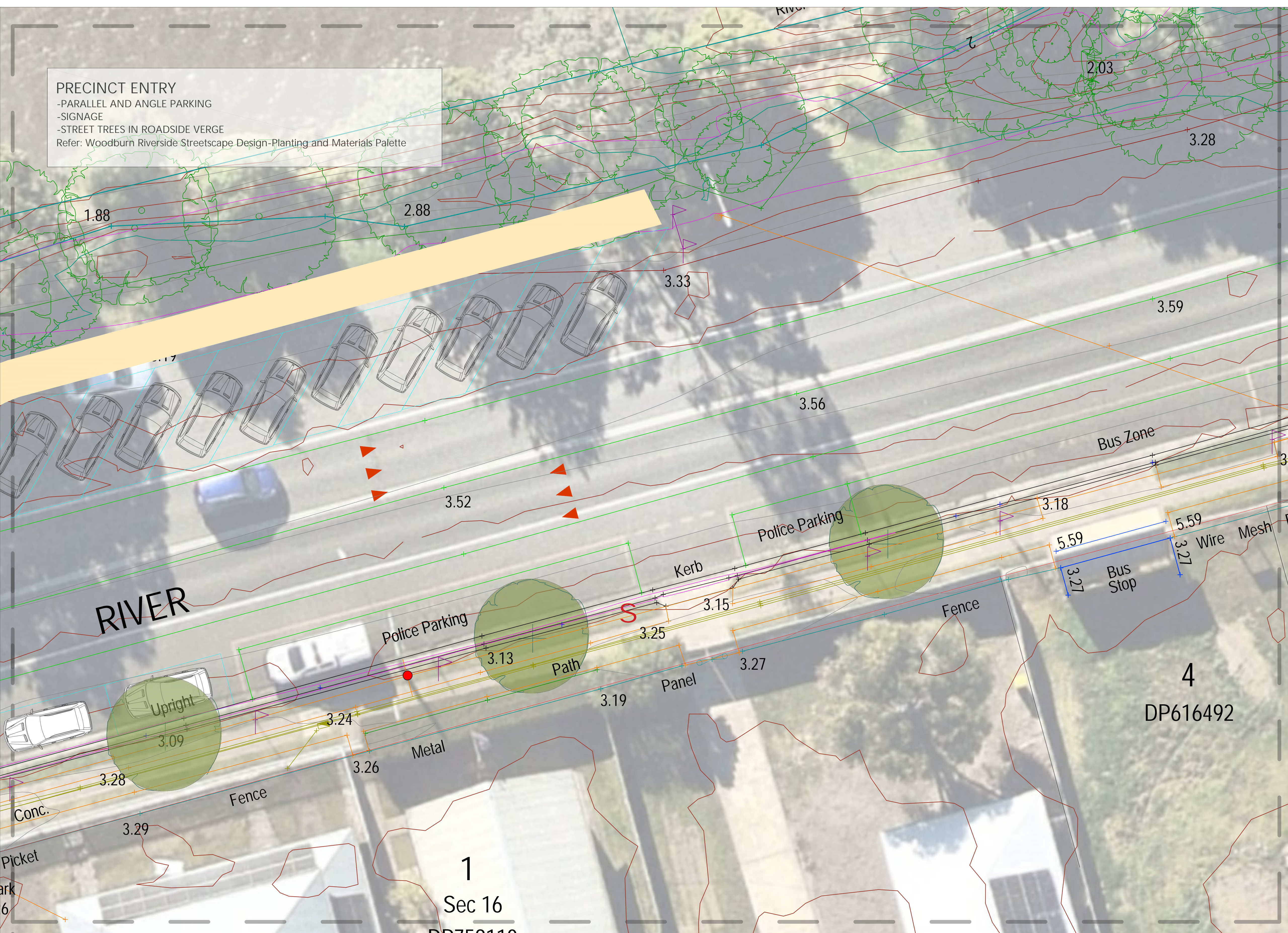
PRECINCT ENTRY

- PARALLEL AND ANGLE PARKING
- SIGNAGE
- STREET TREES IN ROADSIDE VERGE

Refer: Woodburn Riverside Streetscape Design-Planting and Materials Palette



Locality Plan-Scale 1:5000



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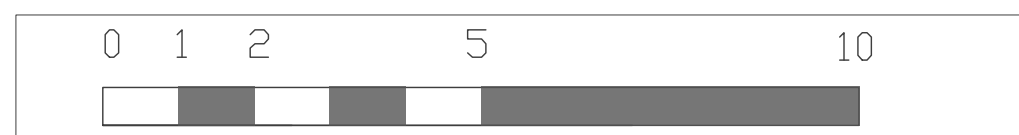
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PROJECT WOODBURN RIVERSIDE STREETSCAPE DESIGN	SITE SCALE AT A1	1:100
DRAWING TITLE LANDSCAPE PLAN	SCALE AT A3	1:200
DRAWING NUMBER EFWRSD-LP-07		

PRECINCT ENTRY

- PARALLEL PARKING
- SIGNAGE
- STREET TREES IN ROADSIDE VERGE

Refer: Woodburn Riverside Streetscape Design-Planting and Materials Palette



Locality Plan-Scale 1:5000

- WSUD-LANDSCAPED GARDENS SEPARATING ROAD AND PEDESTRIAN PAVEMENT
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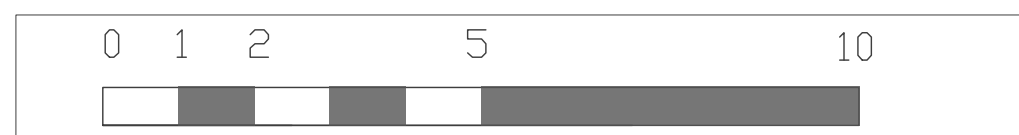
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DRAWING NUMBER EFWRSD-LP-08	

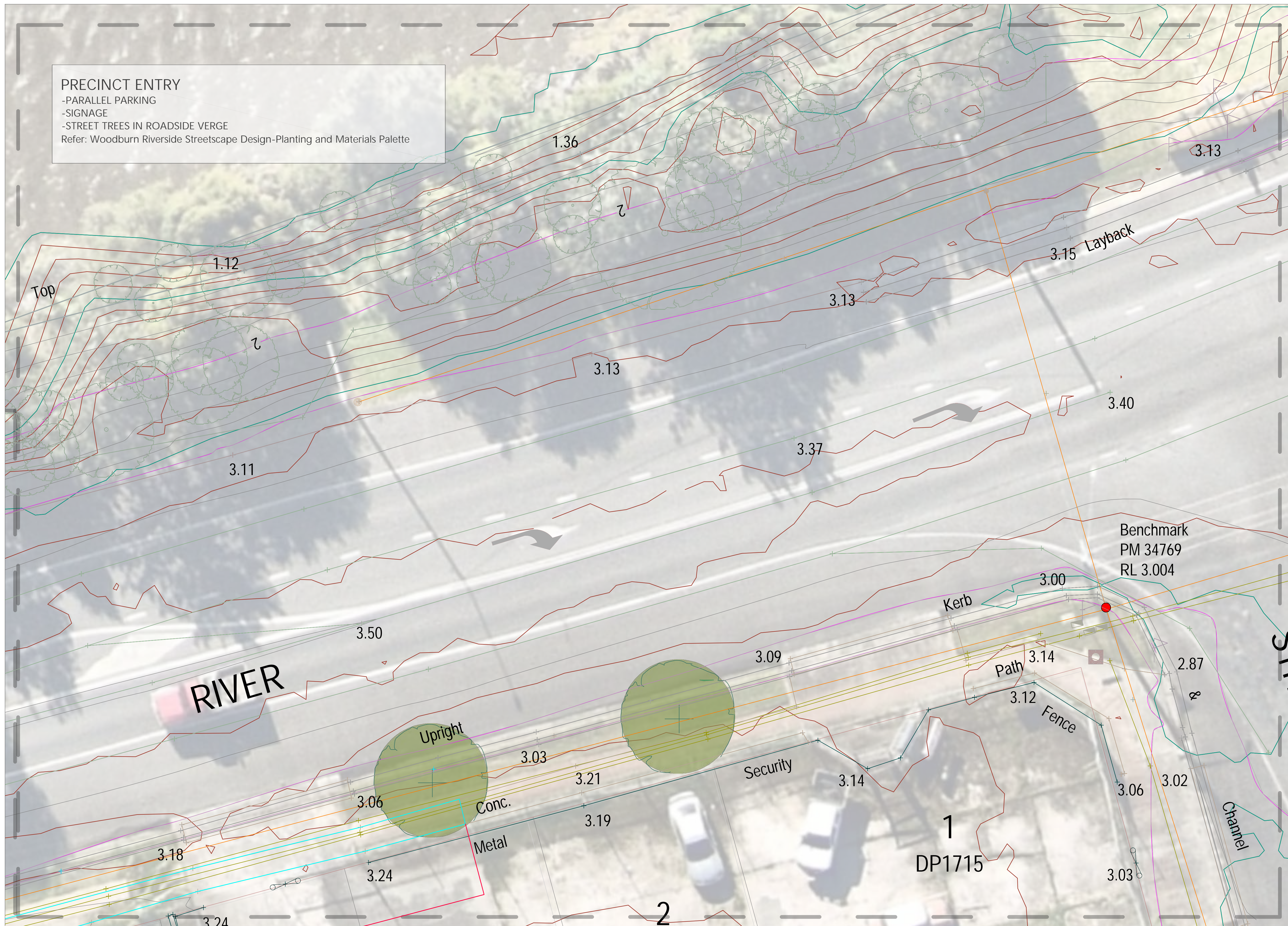
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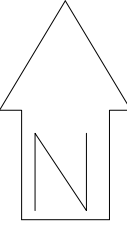
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- STREET TREES IN TRAFFIC ISLANDS AND PITS
- TRAFFIC CALMING-RAISED PAVEMENT MARKING AND TEXTURE
- SANDSTONE SEATING AND BOLLARDS
- PARALLEL DISABILITY PARKING
- PROPOSED TREES
- SIGNAGE
- DISABILITY PARKING

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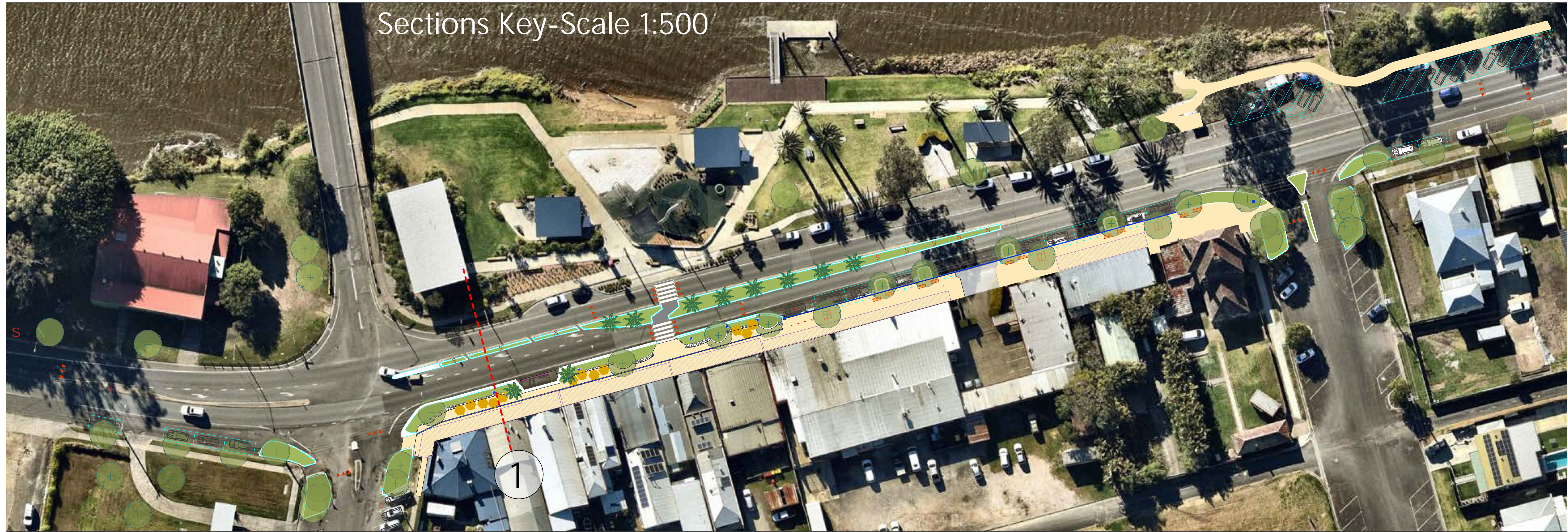
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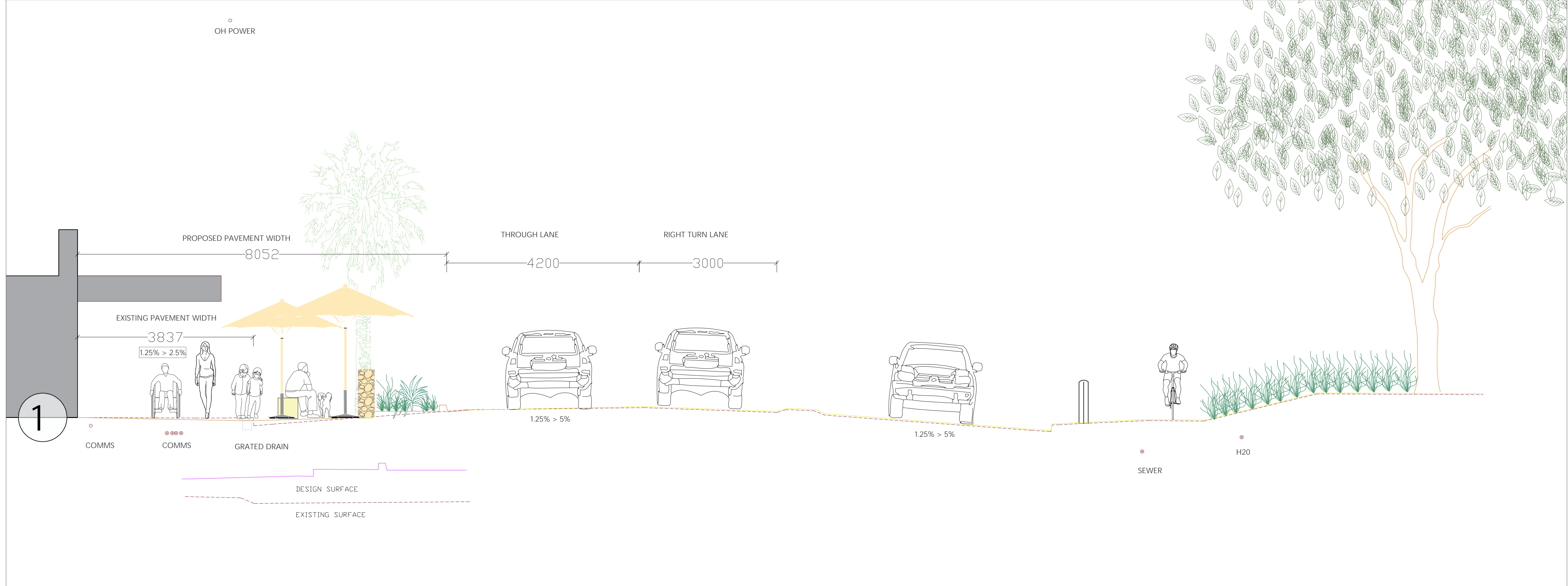
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DRAWING TITLE LANDSCAPE PLAN	SCALE AT A3	1:200
DRAWING NUMBER EFWRSD-LP-09		



Sections Key-Scale 1:500



Locality Plan-Scale 1:5000



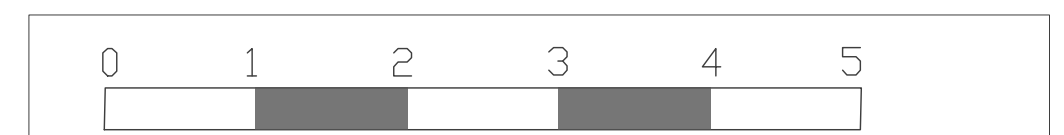
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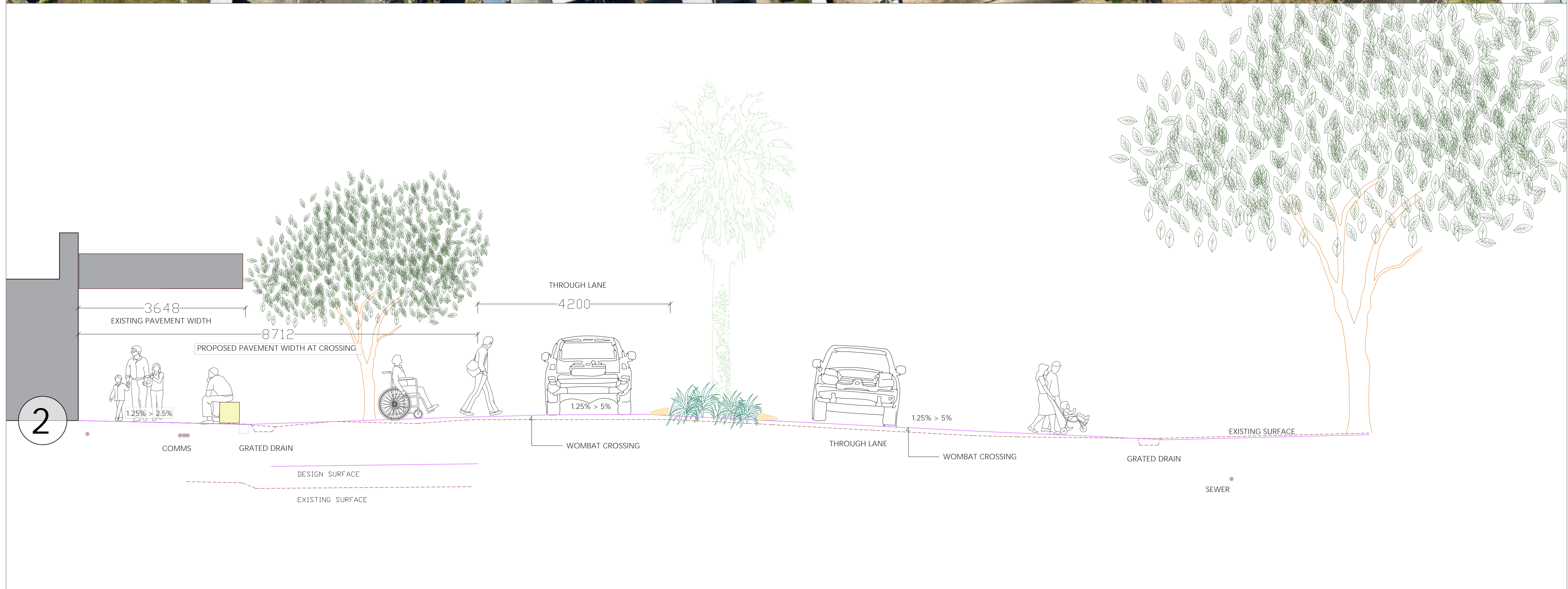
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DRAWING TITLE	SCALE AT A3	1:100
SECTION/ELEVATION		
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Sections Key-Scale 1:500



Locality Plan-Scale 1:5000



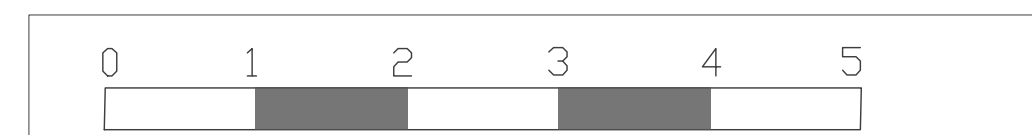
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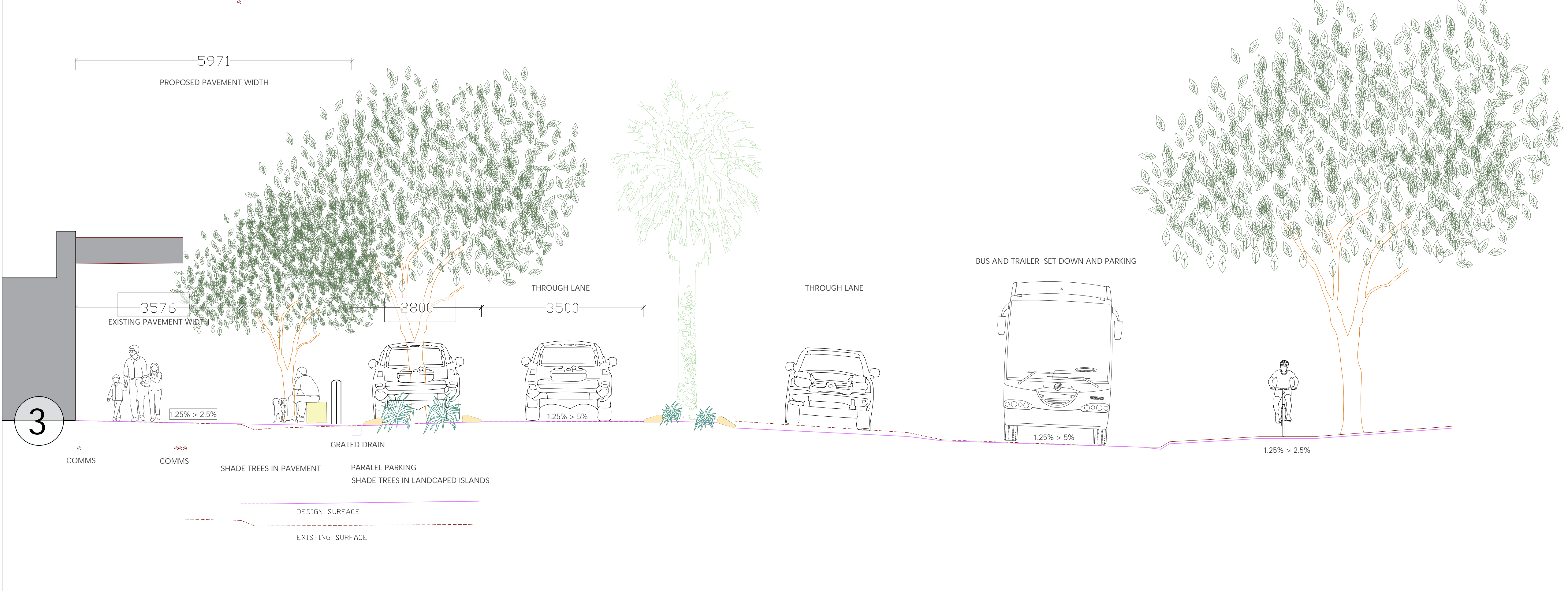
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SECTION/ELEVATION		
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Sections Key-Scale 1:500



Locality Plan-Scale 1:5000



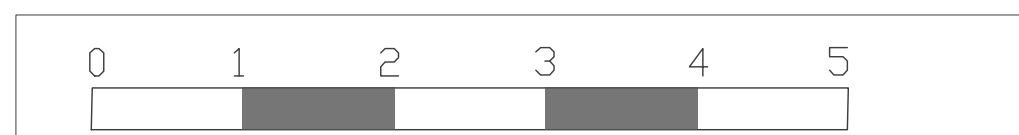
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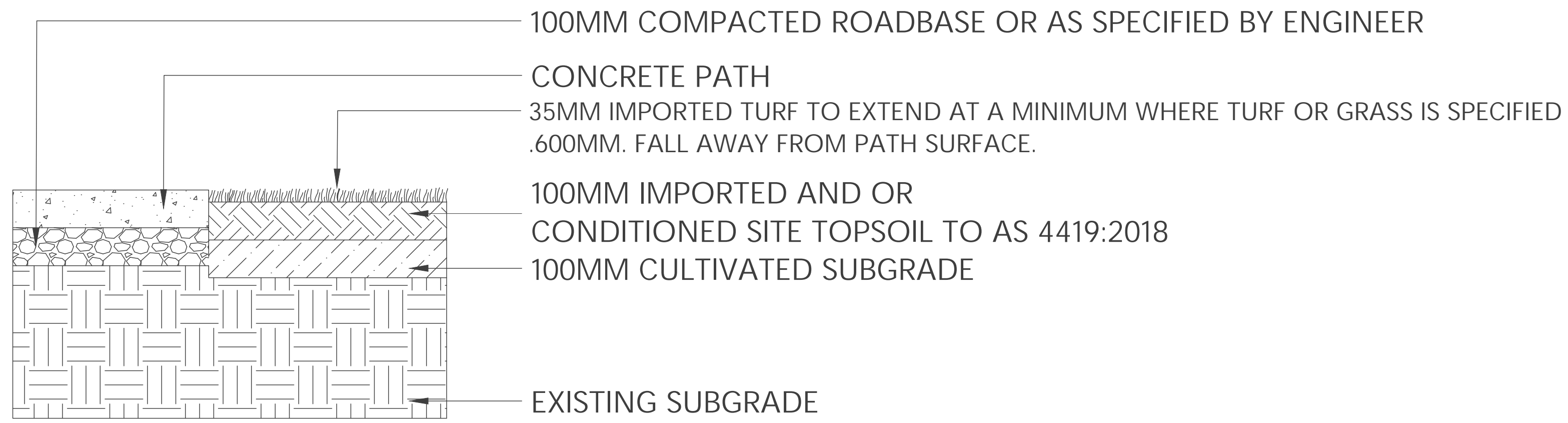
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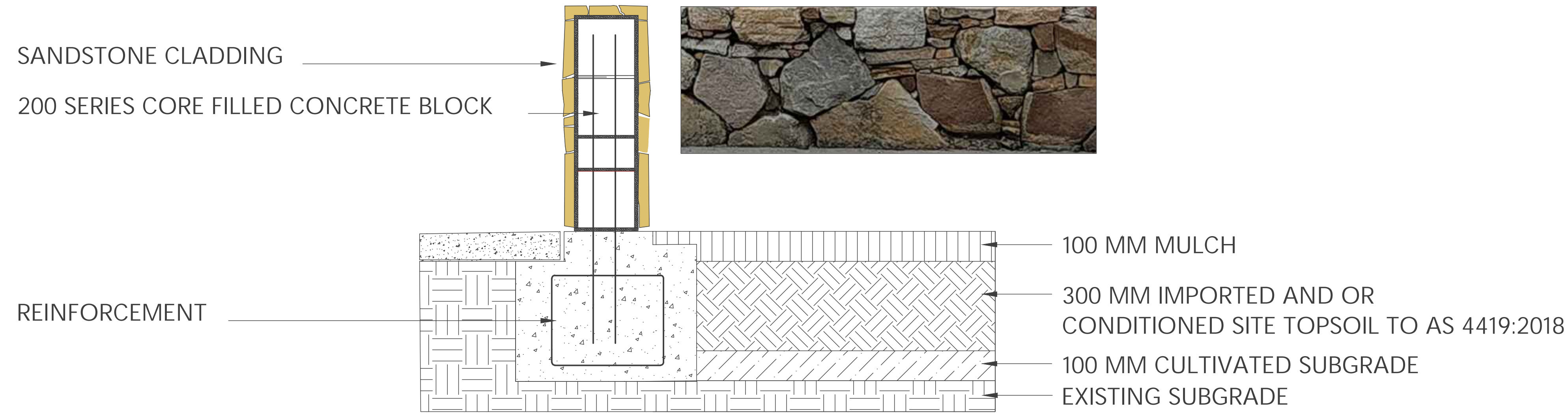
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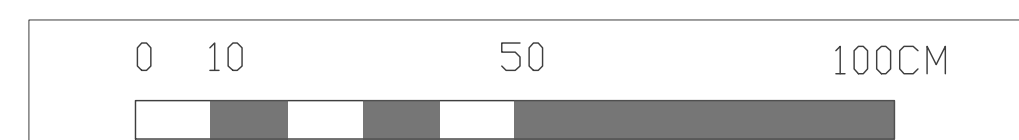
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DRAWING TITLE	SCALE AT A3	1:100
SECTION/ELEVATION		
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1 TYPICAL DETAIL : CONCRETE PATH TO TURF PROFILE
 LD1 Max 2.5% CROSSFALL ON CONCRETE PATH

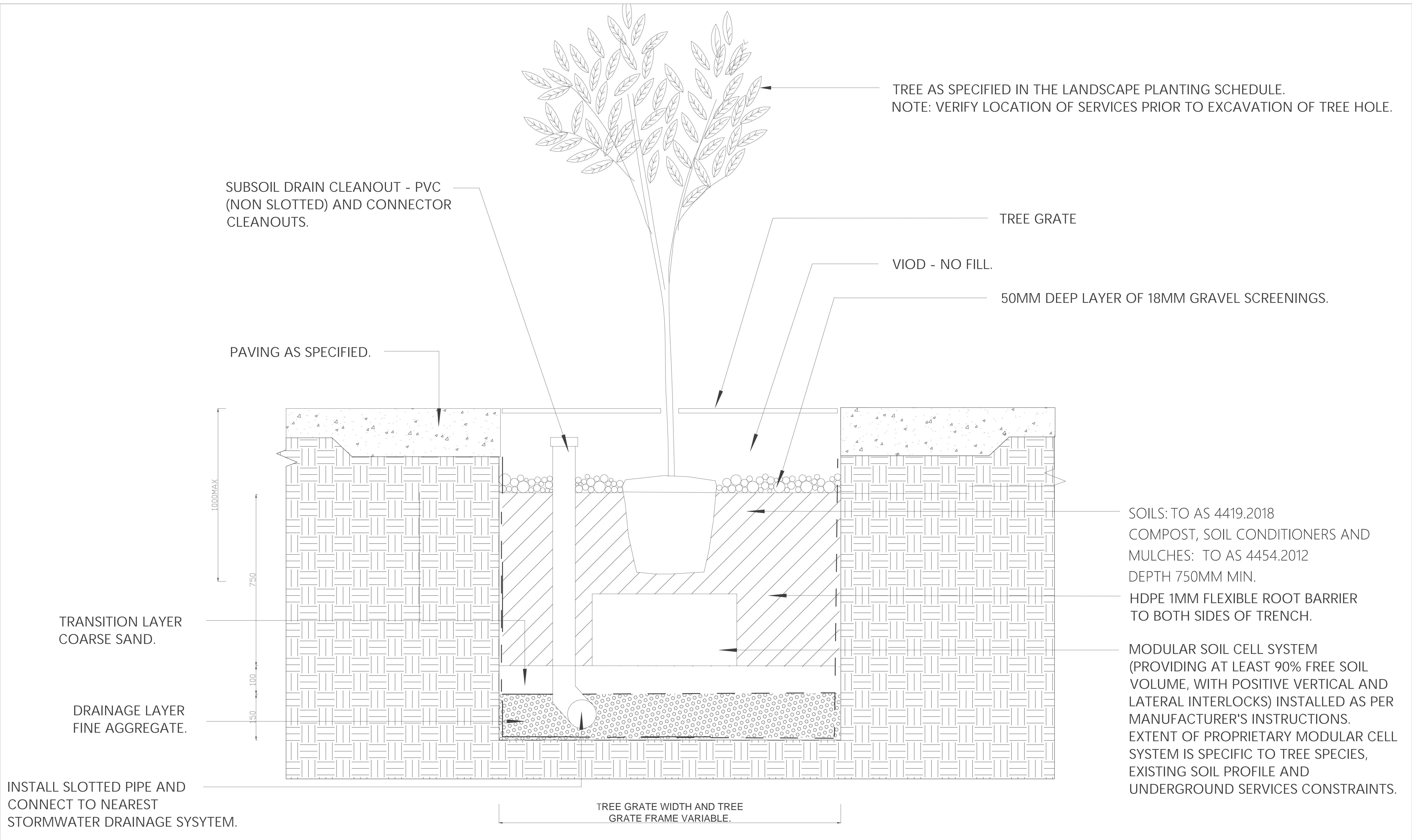


2 TYPICAL DETAIL : ROCK MASONRY
 LD1 Refer Structural Engineer for foundations and reinforcement suitable to act as a crash barrier.



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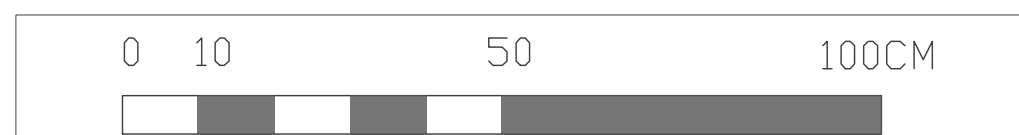
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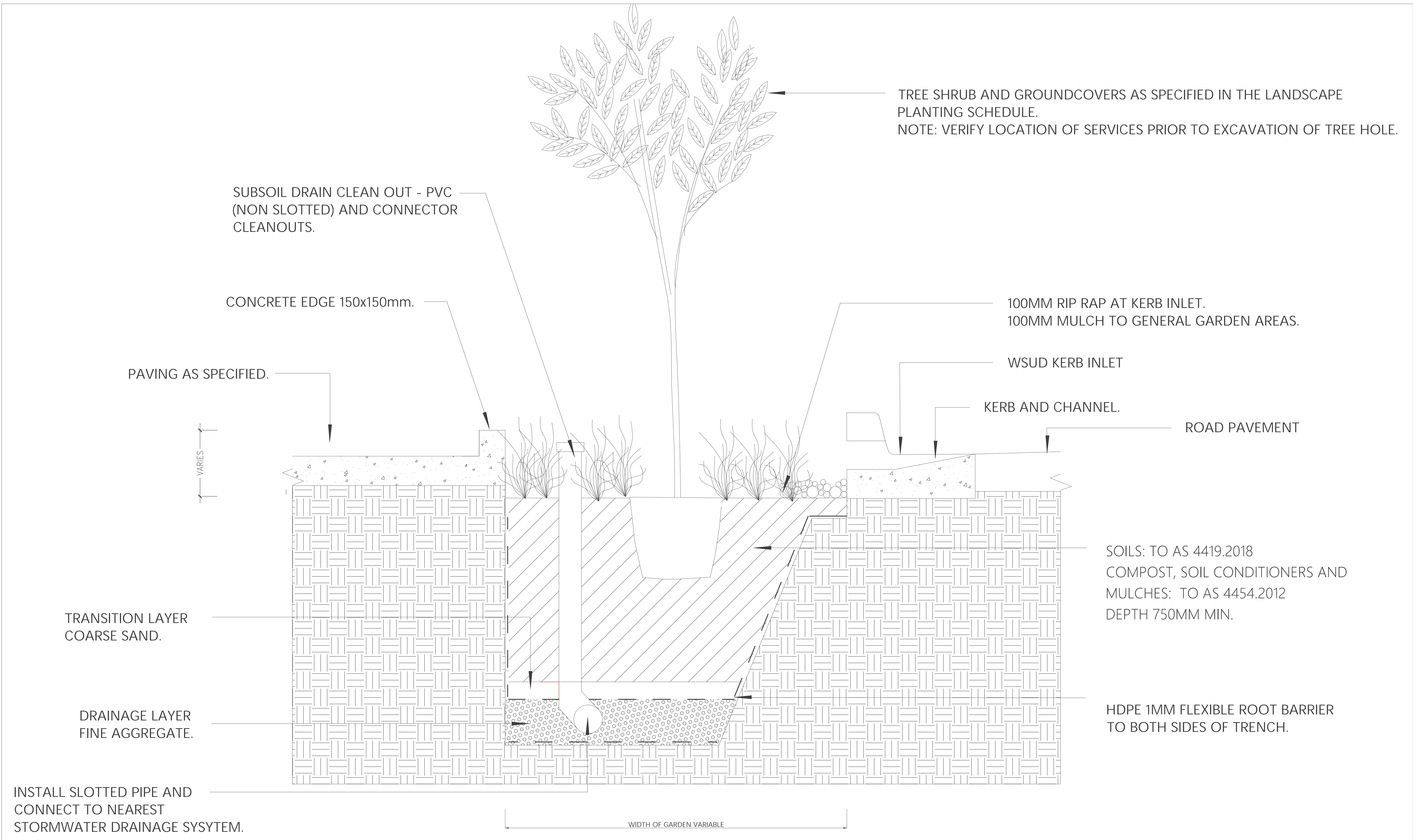
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DRAWING NUMBER EFWRSD-LP-D02		



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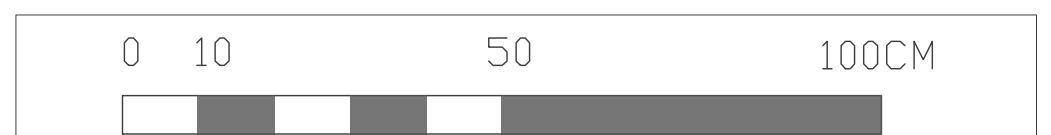

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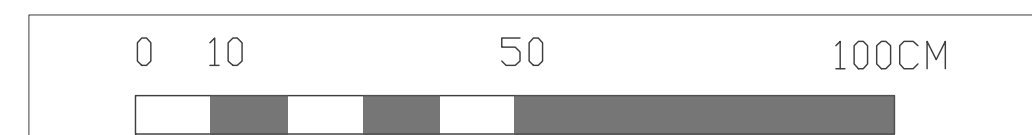
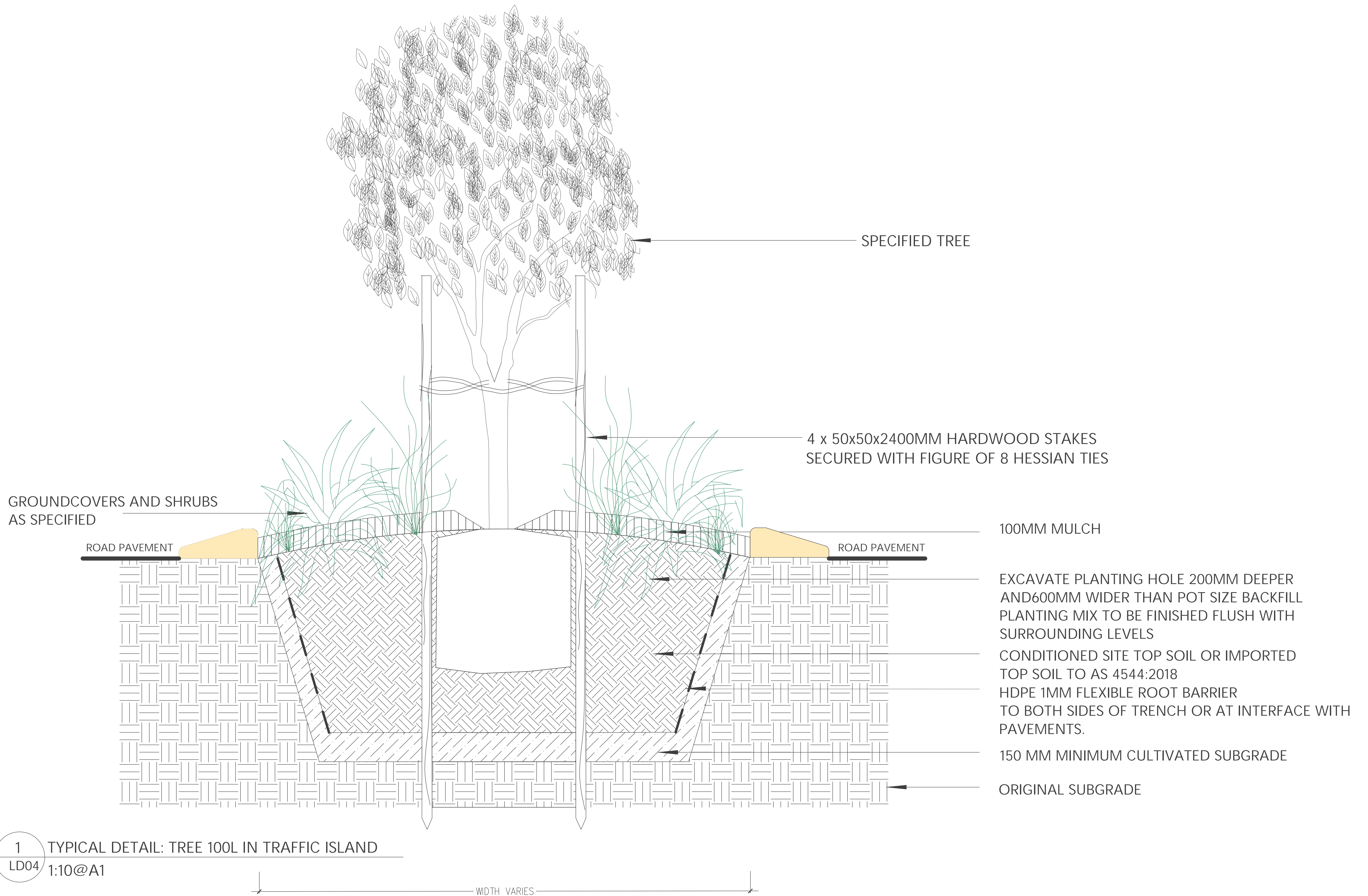
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DRAWING NUMBER EFWRSD-LP-D03		



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DRAWING TITLE TREE TRAFFIC ISLAND	SCALE AT A3	1:20
DRAWING NUMBER EFWRSD-LP-D04		

LANDSCAPE SPECIFICATION. WOODBURN RIVERSIDE STREETScape DESIGN

1.0 GENERAL

1.1 STANDARDS

- AS 4419:2018-Soils for landscaping and garden use.
- AS1289.5.1.1 and AS1289.5.4.1 Soil compaction and density.
- AS 4454:2018 Compost, soil conditioners and mulches.
- AS3743.2003 Potting Mix
- AS:4970-2009 Protection of trees on development sites.
- AS4373.2007 Pruning of amenity trees.

-AS 1428.1-2009 Design for Access and Mobility-General Requirements for Access-New Building Work

1.2 SAMPLES

Before any materials or plants are delivered to site samples must be provided and approved by the Landscape Architect or the Principals representative. Substitutions will not be accepted unless approved by the Landscape Architect or Principals representative.

1.3 DEFINITIONS

-Site topsoil

Soil excavated from the site that contains organic matter, supports plant life, and is free from unwanted matter.

-Unwanted matter (in topsoil)

Stones over 25 mm diameter, clay lumps, weeds and tree roots, sticks and rubbish, and material toxic to plants.

-Imported topsoil

Fine: Clay loam, fine sandy loam, sandy clay loam, silty loam, loam.

Medium: Sandy loam, fine sandy loam.

Coarse: Sand, loamy sand.

-Conditioned topsoil

Topsoil and compost and or other additives, thoroughly mixed before placing.

2.0 SITE

Soils at the site:

Heavily disturbed urban soil and spoil.

2.1 Tree Protection

-Existing trees to be assessed and protected in accordance with AS:4970.2009 Protection of trees on development sites.

-Temporary exclusion fencing and signage shall be installed around the Tree Protection Zone (TPZ), of all trees within the works area in accordance with AS4970.2009 or the site Arboricultural Impact Assessment to ensure no storage of materials or compaction of the ground occurs in this area.

-All necessary work within the (TPZ), must be supervised by the Project Arborist.

-All tree surgery and or pruning of trees must be undertaken in accordance with AS4737.2007 Pruning of amenity trees.

-A qualified Arborist (AQF Level 3 or above) is to undertake any approved pruning to remove any deadwood or other pruning deemed necessary under the supervision of the Project Arborist (AQF Level 5 or above).

2.2 Preparation

Weed eradication

Herbicide: Eradicate weeds using environmentally acceptable methods, such as a non-residual glyphosate herbicide in any of its registered formulae, at the recommended maximum rate. This will minimise the bulk of sod material and minimise soil waste and over excavation.

2.2.1 Vegetation removal

Removal of site vegetation for construction and control of environmental weed species is to be carried out.

2.2.2 Vegetative spoil

Where indicated stockpile vegetation on site as compostable mulch.

Where mulching is not practical or not consistent with an Ecological Report remove vegetative spoil from site. Do not burn. Do not mulch species that germinate easily from cuttings or have the potential to significantly alter the PH of the soil or inhibit desirable plant growth.

2.2.3 Subgrade

Do not compact subgrade in garden and turf areas to greater than to 90% of the dry density ratio of the surrounding soil as determined by AS1289.5.1.1 and AS 1289.5.4.1 (standard compactive effort).

2.3 SUBSOIL

2.3.1 Ripping

General

-Rip parallel to the final contours wherever possible. Do not rip when the subsoil is wet or plastic. Do not rip within the dripline of trees and shrubs to be retained.

Compacted subsoil

-Rip 300 mm deep unless specified otherwise.

Heavily compacted clay subsoil:

-Rip 450 mm deep unless specified otherwise.

2.3.2 Cultivation

-Cultivation depth to existing subgrade: 100 mm unless specified otherwise.

-Cultivation depth to garden areas: 300 mm unless specified otherwise.

-Cultivation depth to turf and grass areas: 100 mm unless specified otherwise.

2.3.3 Services and roots

Do not disturb services. Its the responsibility of the contractor to confirm presence and location of all services and mark them. Keep clear of tree roots in drip zone. Cultivate by hand if necessary.

2.3.4 Amelioration

Thoroughly mix in additives such as but not limited to Gypsum and Lime that are required to be incorporated into the subsoil. Cultivate manually within 300 mm of paths or structures. Remove stones exceeding 25 mm, clods of earth exceeding 50 mm, and weeds, rubbish or other deleterious material brought to the surface during cultivation. Trim the surface to design levels after cultivation.

3.0 SOILS

Source

Import soils mulches and gravels from a local source that is free from invasive flora and fauna unless the topsoil type can be provided from material recovered from the site.

3.1 Top Soil

Definitions

Landscape soils on grade. Soils suitable for garden areas and backfilling tree pits and planting holes to AS4419.2018.

-Texture: Sandy loam to clay loam

-Bulk Density: 1.2-1.6 (kg/L)

-Water repellence (AS4419-2018) <60 seconds

-Free of unwanted materials; Large particles, 2020mm= < 2% by mass, and 20mm= <0% by mass.

Soils for turf and lawns. Soils suitable for the establishment of turf areas and top dressing lawns to AS 4419.2018

-Texture: Sandy Loam to Loam

-Bulk Density: 1.2-1.6 (kg/L)

-Water repellence (AS4419-2018) <60 seconds

--Bulk Density: 1.2-1.6 (kg/L)

-Water repellence (AS4419-2018) <60 seconds

-Free of unwanted materials; Large particles, 2020mm= < 2% by mass, and 20mm= <0% by mass.

3.2 Placing topsoil

General

Spread the topsoil on the prepared subsoil and grade evenly, making the necessary allowances to permit the following,

-Achieve required finished levels and contours after light compaction.

-Finished surface levels of grassed areas to be flush with adjacent hard surfaces such as kerbs, paths and mowing strips unless otherwise specified.

-Finished surface levels of mulched areas to be 25 mm below adjacent pathways, kerb or the like unless otherwise specified.

3.3 Contamination

Where diesel oil, cement or other phytotoxic material has been spilled on the subsoil or topsoil, excavate the contaminated soil, dispose of it off the site, and replace it with site soil or imported topsoil to restore design levels.

3.4 Finishing

Feather edges into adjoining undisturbed ground.

3.5 Consolidation

Compact lightly and uniformly in 150 mm loose layers. Avoid differential subsidence and excess compaction. Produce a finished topsoil surface that has the following characteristics:

-Finish to design levels.

-Smooth and free from stones or lumps of soil.

-Graded to drain freely, without ponding or concentration of flows to catchment points.

-Graded evenly into adjoining ground surfaces.

-Ready for planting.

3.6 Topsoil depths

-Excavated planting areas: Unless specified otherwise,300 mm

I-rrigated grassed areas generally: Unless specified otherwise 150 mm.

-Irrigated grassed areas, heavy use (eg playing fields, playgrounds, public parks): Unless specified otherwise 200 mm

-Non-irrigated grass areas: Unless specified otherwise 100 mm.

3.7 Surplus topsoil

General: Spread surplus topsoil on designated areas on site, if any. Otherwise, dispose off site.

4.0 COMPOSTS AND FERTILISERS

4.1 Compost

General

Provide well rotted vegetative material or animal manure, free from harmful chemicals, grass and weed growth to AS 4454:2018 Compost, soil conditioners and mulches.

4.2 Fertiliser

Provide proprietary fertilisers, delivered to the site in sealed bags marked to show manufacturer or vendor, weight, fertiliser type, N:P:K ratio, recommended uses and application rates.

5.0 STONE AND AGGREGATE

To be confirmed at IFC

6.0 GRAVELS

To be confirmed at IFC

7.0 TURF

General

Obtain turf from a specialist grower of cultivated turf. Provide turf of even thickness, free from weeds (including nut grass and oxalis) and other foreign matter. Cut turf to a minimum 25 mm thick in long 300 mm wide strips.

Type: Unless specified otherwise, allow for 'A' grade Cynodon dactylon (green couch) or Digitaria didactyla (blue couch). Turf is to have no stabilised netting.

Supply

Deliver the turf within 24 hours of cutting, and lay it within 36 hours of cutting. Prevent it from drying out between cutting and laying. Turf must not be laid on days where the temperature is expected to be in excess of 32 deg celsius or

where the outlook is for days in excess of 32 deg celsius.

7.1 Fertilising

Mix the fertiliser thoroughly into the topsoil before placing the turf. Apply lawn fertiliser at the completion of the first and last mowings, and at other times as required to maintain healthy grass cover.

7.2 Laying

General

Lay the turf in the following manner

-In stretcher pattern with the joints staggered and close butted.

-Parallel with the long sides of level areas, and with contours on slopes.

To finish flush, after tamping, with adjacent finished surfaces of ground, paving edging, or grass seeded areas.

- Apply a layer of top dressing between the strips of turf. Finish with an even surface.

-Do not roll turf.

7.3 Tamping

Lightly tamp to an even surface immediately after laying. Do not use a roller either hand or machine.

7.4 Watering

Water immediately after laying until the topsoil is moistened to its full depth. Continue watering to maintain moisture to this depth. Turf is to be watered twice daily or more frequently for a fortnight to prevent drying out until roots have engaged with the top soil. Then water weekly for 8 weeks or as required to keep the grass in a healthy and visually appealing condition.

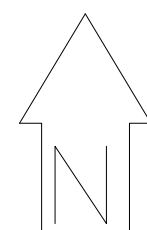
7.5 Mowing

Mow when grass height exceeds 80 mm. Maintain the grass height within the required range of 50 +/-15 mm. Carry out the last mowing within 7 days before

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the end of the planting establishment period. Disperse grass clippings evenly over the mowed area unless this inhibits grass growth. If so bag and remove clippings from site. Do not disperse clippings onto paths roads or garden beds. In areas where mowers cannot gain access, trim grass with brush cutters. Mowers are to be suitable for the task and deck cut required. Do not use wide deck or heavy ride on mowers in areas that require detailed cutting such as narrow verges and lawn mounds or in areas that are experiencing soil saturation.

7.6 Maintenance
General
Maintain turfed areas until the attainment of a dense continuous sward of healthy grass over the whole turfed area, evenly green and of a consistent height.

7.7 Failed turf
Lift failed turf and relay with new turf.

7.8 Levels

Where levels have deviated from the design levels after placing and watering, lift turf and regrade topsoil to achieve design levels. Top dress as required during the maintenance period to maintain design levels.

2.9 Top dressing
When the turf is established, mow, remove cuttings and lightly top dress to a depth of 10 mm. Rub the dressing well into the joints and correct any unevenness in the turf surface.

8.0 MATERIALS
To be confirmed at IFC, Refer Materials palette and Civil plans

8.1 CONCRETE PATH
To be confirmed at IFC, Refer Materials palette and Civil plans

8.2 BENCHES
To be confirmed at IFC, Refer Materials palette and Civil plans

8.3 WALLING AND EDGING
To be confirmed at IFC, Refer Materials palette and Civil plans

9.0 PLANTS
9.1 General
Plants are to be of the type and pot size as specified in the plant schedule and where endemic to the site or area to be of local provenance. Provide plants with the following characteristics.

-Large healthy root systems, with no evidence of root curl, restriction or damage. Vigorous, well established, free from disease and pests, of good form consistent with the species or variety.
-Hardened off, not soft or forced, and suitable for planting in the natural climatic conditions prevailing at the site.

9.2 Supply
For supply of advanced trees follow the guidance given in NATSPEC
Guide:Specifying Trees_a guide to assessment of tree quality (Clark R . 2003)

9.3 Replacement
-Replace damaged or failed plants with plants of the same type and size.

9.4 Plant containers and stock sizes
-Supply plants in weed free containers of the required size.

-Unless specified otherwise, provide plants in the pot sizes specified in the planting schedule

9.5 Type
-Supply plants that are true to type of the species and variety as specified.

Unless required to be multi-stemmed, provide trees that have a single leading shoot to a minimum height of 1.2 m. Follow guidance , NATSPEC

Guide:Specifying Trees_a guide to assessment of tree quality (Clark R . 2003)

9.6 Health and vigour
-Supply plants with foliage size, texture and colour consistent with that shown in healthy specimens of the species. Plants must not exhibit any signs of leaf curl, chlorosis, and sooty mould.

-Supply plants with extension growth consistent with that shown in vigorous specimens of the species. Free from pests and disease

9.7 Foliage
Restrict attack by pests and disease to < 10% of the foliage, such that potential for long term success of the trees is not affected.

9.8 Balance of crown
Maximum variation in crown bulk on opposite sides of stem axis: 20%.

9.9 Uniformity of growth
Longest internode: Maximum 1.2 x shortest internode.

Branches
Requirement: Evenly spaced and no crossing branches.

Stem taper
9.10 Support
Supply trees that are self-supporting unstaked. If staking is required due to adverse conditions or safety reasons refer 12.1 STAKES.

9.11 Pruning history
General: Comply with the recommendations of AS 4373 Pruning of amenity trees.

9.12 Roots
Roots must show no signs of discolouration or girdling, and must not extend outside pot or container area.

9.13 Root division
Fibrous with repeated and sequential division to provide a strong structural base. Root direction: At least 90% of roots within rootball must grow within the radial plane (out or down) at every stage of development.

9.14 Rootball occupancy
Shake or handle unsupported rootball. At least 90% of the soil volume must remain intact. Stock size smaller than 25 Litre: Hold stem at 80% of height above ground, deflect 30 degrees from vertical, side to side. Container or rootball must remain flat on the ground.

10 PLANTING
10.1 General
Individual plantings: Excavate a hole to at least twice the diameter of the rootball and at least 1.5 times deeper than the rootball. Break up the base of the hole to a further depth of 100 mm, and loosen compacted sides of the hole to prevent confinement of root growth.

10.2 Watering
Requirement: Thoroughly water the plants before planting, immediately after planting, and as required to maintain growth rates free of stress.

10.3 Placing
Remove the plant from the container with minimum disturbance to the rootball. Ensure that the rootball is moist and place it in its final position, in the centre of the hole and plumb, and with the topsoil level of the plant rootball level with the

finished surface of the surrounding soil.

10.4 Fertilising
In planting beds and individual plantings, place fertiliser pellets around the plants at the time of planting. A combination of organic fertilizer and a slow release with an active life of 12 months must be incorporated and an NPK specific to the species being fertilised must be provided.

10.5 Backfilling
Backfill with topsoil mixture. Lightly tamp and water to eliminate air pockets. Ensure that topsoil is not placed over the top of the rootball, so that the plant stem remains the same height above ground as it was in the container.

11.0 MULCHING
11.1 General
Provide mulch that is free of deleterious and extraneous matter such as soil, weeds and sticks.

11.2 Mulch material
Brush chippings and leaf litter recovered from site clearing, if available. Otherwise provide Tea Tree Mulch sourced locally compliant with AS 4454-2012 Composts soils and mulches.

11.3 Execution
Place mulch to the required depth, clear of plant stems, and rake to an even surface flush with the surrounding finished levels. Spread mulch to the specified thickness so that after settling, it is smooth and evenly graded between design surface levels sloped towards the base of plant stems. Keep mulch not closer than 70 mm from plant stems.

11.4 Depths
Spread organic mulch to a depth of 100 mm.

12.0 PLANT SUPPORT AND TREE SURGERY
12.1 Stakes
Requirement

Generally, stake plants to prevent wind rock and movement of the roots or to provide a barrier to minimise damage from activity. Otherwise do not stake. Stakes are supports and are not to be used to straighten irregular growth.

Material
Hardwood, straight, free from knots or twists, pointed at one end.

Installation
Drive stakes into the ground for at least a fifth of their length, avoiding damage to the root system. Place stake at a clear distance of 50 mm from the edge of the rootball.

Plants in 45 litre pots, 1.0 - 2.5 m high: Two 50 x 50 x 2400 mm stakes per plant.

Plants in 100 litre pots, 2.5 - 3.0 m high: Four 50 x 50 x 2800 mm stakes per plant.

12.2 TIES
General: Provide ties fixed securely to the stakes. Use 50 mm hessian webbing stapled to the stake or plastic lock tie in a figure of eight pattern, placed at two-third of plant height above ground.

12.3 ROOT BARRIER
Provide HDPE 1mm root control barrier between landscaped beds, traffic islands, and paved surfaces.

Install to manufacturers specification to a depth to suit the conditions and species.

13.0 LIGHTING
Allow for conduit to all garden beds to provide power to lights(Lighting design by others).

14.0 IRRIGATION
Allow for conduit to all garden beds to provide access for irrigation pipe (Irrigation design by others).

15.0 COMPLETION
15.1 Planting establishment period
Commencement

The planting establishment period commences at the date of practical completion inspection.

Required period
12 months or as directed by the Principal.

16.0 MAINTENANCE SCHEDULE
16.1 Watering turf
Turf is to be watered daily for two weeks until evidence of root development can be seen. Then watered twice weekly for the four weeks then weekly for 6 months. In event of rain watering frequency may be suspended or reduced accordingly. Do not over water. In event of excessively hot and dry weather, especially accompanied by wind, watering times will need to be increased. Regular inspections to identify lawn stress need to be undertaken.

16.2 Watering plants
All plants are to be watered regularly for up to six months. Water well at planting and then twice weekly for the first month and then weekly until established. In event of rain watering frequency may be suspended or reduced accordingly. Do not over water. In event of excessively hot and dry weather, especially accompanied by wind, watering times will need to be increased. Regular inspections to identify plant stress need to be undertaken.

16.3 Pruning
Species should be able to achieve their natural form. However appropriate pruning should be carried out to maintain pedestrian access, remove disease or pests from the area and to encourage the development of under storey species

16.4 Planting establishment period tasks
The planting establishment period is 52 weeks with visits to take place fortnightly. Within this period the tasks will include watering, mowing, weeding, rubbish removal, fertilising, pest and disease control, returfing, replanting, aerating, reinstating mulch, top-dressing of all grassed areas and keeping the site clean and tidy.

A program schedule of works is to be provided by the contractor with log books kept and presented monthly to the principal and at the end of the establishment period showing dates of visits and tasks carried out including any notifications to the principal of any issues that may affect then successful establishment of the landscape works.

16.5 Existing planting and grass
Where existing grass or planting is within the landscape contract area, maintain it as for the corresponding classifications of new grass or planting.

16.6 Recurrent works

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LANDSCAPE ARCHITECTS



CLIENT
Richmond Valley Council

DETAIL SURVEY
Ardill Payne and Partners

LIDAR
Geoview

ENGINEERING
Greg Alderson and Associates

A	PRELIMINARY	MP	MP	15_12_2023
ISSUE	DESCRIPTION	DESIGN	DRAWN	DATE

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PROJECT WOODBURN RIVERSIDE STREETScape DESIGN	SITE SCALE AT A1	1:10
DRAWING TITLE	SCALE AT A3	1:20
LANDSCAPE SPECIFICATION		
DRAWING NUMBER EFWRSD-LP-N02		

Throughout the planting establishment period, carry out maintenance work including watering, mowing, weeding, rubbish removal, fertilising, pest and disease control, reseeding, returfing, staking and tying, replanting, cultivating, pruning, hedge clipping, aerating, reinstatement of mulch, renovating, top dressing, and keeping the site neat and tidy.

16.7 Replacements

Continue to replace failed, damaged or stolen plants.

16.9 Reporting

Log books, daily pre start checklists, materials safety data sheets and application of chemicals registers are to be kept and presented with recurrent invoicing, at designated hold points and at planting establishment completion.

17.0 OFF MAINTENANCE

17.1 Product warranty

Submit the supplier's written statement certifying that plants are true to the required species and type, and are free from diseases, pests and weeds. Submit suppliers warranties for all products.

17.2 Maintenance manuals

Submit recommendations for maintenance of plants, hardscape and built form.

17.3 Cleaning

Remove stakes and ties no longer required at the end of the planting establishment period.

Remove temporary protective fences at the end of the planting establishment period.

Ensure all paths and paved surfaces are free of sediment and stains.

END

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