



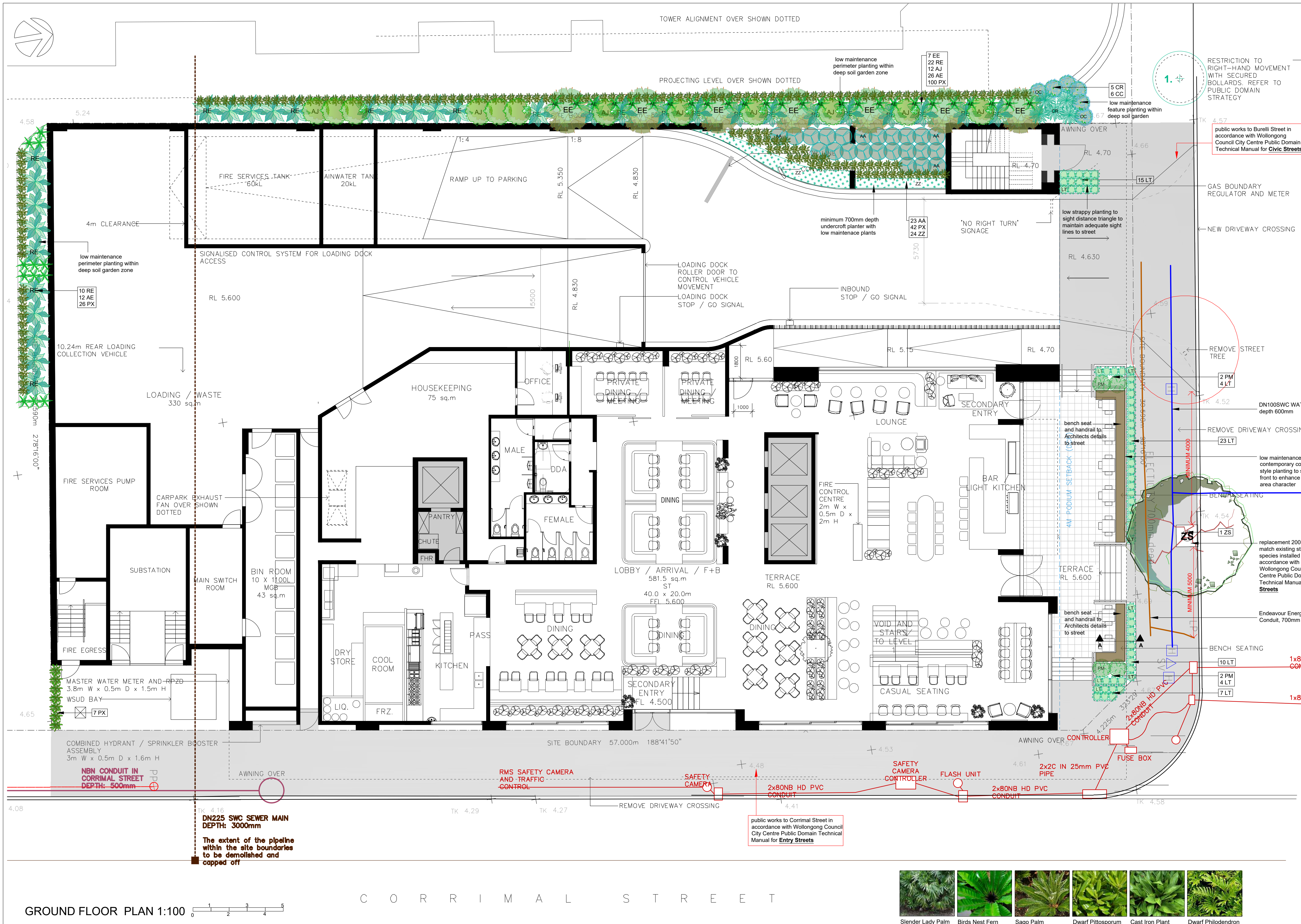
AA	<i>Asplenium australicum</i>
AJ	<i>Aspidistra elatior</i>
AE	<i>Aucuba japonica</i>
CC	<i>Casuarina</i> 'Cousin It'
CR	<i>Cycas revoluta</i>
EE	<i>Eleocarpus eumundii</i>
LT	<i>Lomandra longifolia</i> 'Tanika'
PM	<i>Pittosporum</i> 'Miss Muffet'
PE	<i>Philodendron</i> 'Xanadu'
RX	<i>Rhapis excelsa</i>
ZS	<i>Zelkova serrata</i>
ZZ	<i>Zamioculcas</i> 'Zanzibar Gem'

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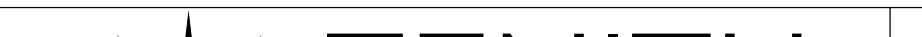
NOTES

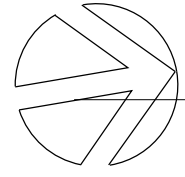
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9. Contractors shall refer to the design as issued by the Contractors contact DIAL BEFORE YOU DIG ON 1100 prior to commencing any works.
10. This plan is to be read in conjunction with the architectural and engineering plans.
11. It is recommended that an approved root barrier be installed to manufacturers recommendations to all tree planting in the vicinity of structures, walls and hard pavement areas.



GROUND FLOOR PLAN 1:100



	Rev. no.	Description:	Date:	Rev. no.	Description:	Date:	ARBORIST: ADVANCED TREESCAPE CONSULTING	 Ph: 9545 5200 info@zenithlandscapes.com.au	37-39 BURELLI STREET WOLLONGONG NEXT CONTRACTING PTY LTD	TITLE: LANDSCAPE PLAN			
	A	REVISED LANDSCAPE DESIGN	30.11.2020	D	UNDERGROUND SERVICES	06.07.2021	SURVEY:			STATUS: DA	SCALES: 1:100		
	B	REVISED LANDSCAPE DESIGN	15.04.2021				HYDRAULIC:			CHECKED: MFG	SHEET 1 OF 3		REVISION: D
	C	REVISED LANDSCAPE DESIGN	22.06.2021				ARCHITECT: ANDREW BURNS			DRAWN: MAG	DRAWING No.		
									DATE: 16.11.2020 20-4274 LO1				



Anchor points to be installed in accordance with BCA requirements; to Architects details to enable effective maintenance of planted zones



A1

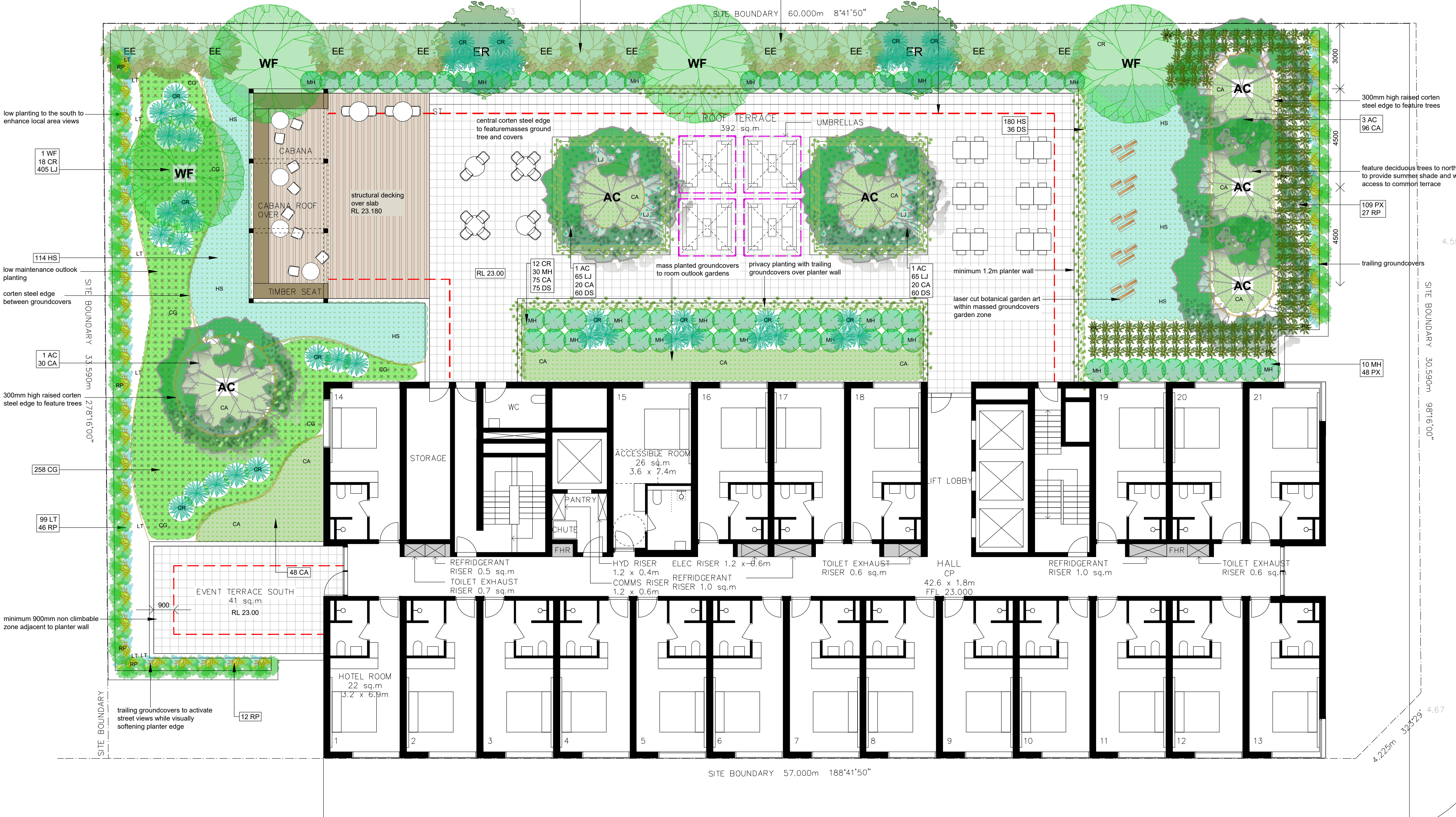
sample project themes



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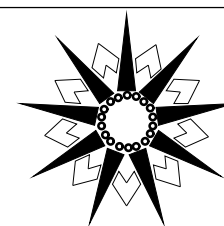
IRRIGATION NOTE
1. Mass planted beds will require a fully automated irrigation system which is to be designed and installed by an appropriately qualified irrigation consultant.
2. The irrigation system shall be designed and installed in accordance with all relevant Australian Standards and the current water restrictions that are in place at the time of construction.
3. The design of the irrigation system shall only be carried out after water pressure testing has been undertaken.
4. The irrigation system shall be installed and in full working order prior to any planting works taking place.
5. The site superintendent and all other relevant personnel shall be fully conversant with the operational requirements of the system prior to planting taking place.

PLANT CODES - LV 5
(refer also to plant schedule)

AC Acer campestre 'Elsrijk'
CA Cissus antarctica
CR Cycas revoluta
DS Dichondra 'Silver Falls'
EE Elaeocarpus eumundii
ER Elaeocarpus reticulatus
HS Hibbertia scandens
LJ Liriope muscari 'Just Right'
MH Murraya paniculata 'Hip High'
PJ Pandorea jasminoides
PX Philodendron 'Xanadu'
RP Rosmarinus 'Prostrata'
WF Waterhousea floribunda
VT Viburnum 'Dense Fence'



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37-39 BURELLI STREET
WOLLONGONG
NEXT CONTRACTING PTY LTD

TITLE: LANDSCAPE PLAN	SCALES: 1:100	REVISION:
STATUS: DA	SHEET 2 OF 3	D
CHECKED: MFG	DRAWING No.	
DRAWN: MAG		
DATE: 16.11.2020	20-4274 LO2	

PLANT SCHEDULE - GROUND FLOOR

SYMBOL	SPECIES	No.	Pot Size	Mat. Hgt.	Stake	COMMON NAME
	Zeikova serrata 'Green Vase'	1	200ltr	10m+	tree guard	Japanese Elm
	Elaeocarpus eumundii	7	25ltr	6m	no	Quandong
	Rhapis excelsa	32	5ltr	3m	no	Slender Lady Palm
	Aucuba japonica	12	5ltr	2m	no	Gold Dust Plant
	Asplenium australasicum	23	5ltr	1m	no	Birds Nest Fern
	Cycas revoluta	5	5ltr	1m	no	Sago Palm
	Pittosporum 'Miss Muffet' (hedged)	4	150mm	1m	no	Dwarf Pittosporum
	Aspidistra elatior	38	150mm	0.7m	no	Cast Iron Plant
	Philodendron 'Xanadu'	175	150mm	0.7m	no	Dwarf Philodendron
	Lomandra longifolia 'Tanika'	63	150mm	0.5m	no	Dwarf Mat Rush
	Zamioculcas 'Zanzibar Gem'	24	150mm	0.5m	no	Zanzibar Gem
	Casuarina 'Cousin It'	6	150mm	g/cover	no	Prostrate She Oak

PLANT SCHEDULE - LEVEL 5

SYMBOL	SPECIES	No.	Pot Size	Mat. Hgt.	Stake	COMMON NAME
	Acer campestre 'Elsrijk'	6	25ltr	8m	yes	Field Maple
	Waterhousia floribunda	4	25ltr	8m	yes	Weeping Lilly Pilly
	Elaeocarpus reticulatus	2	25ltr	7m	yes	Blueberry Ash
	Elaeocarpus eumundii	15	25ltr	6m	no	Quandong
	Cycas revoluta	72	150mm	1m	no	Sago Palm
	Murraya paniculata 'Hip High'	76	150mm	1m	no	Dwarf Jessamine
	Philodendron 'Xanadu'	157	150mm	0.7m	no	Dwarf Philodendron
	Liriope muscarii 'Just Right'	535	150mm	0.5m	no	Giant Turf Lily
	Lomandra longifolia 'Tanika'	99	150mm	0.5m	no	Dwarf Mat Rush
	Cissus antarctica	289	150mm	g/cover	no	Kangaroo Vine
	Carpobrotus glaucescens 'Aussie Rambler'	258	150mm	g/cover	no	Native Pigface
	Dichondra 'Silver Falls'	207	150mm	g/cover	no	Silver Dichondra
	Hibbertia scandens	114	150mm	g/cover	no	Yellow Guinea Vine
	Rosmarinus 'Prostrata'	85	150mm	g/cover	no	Groundcover Rosemary

LANDSCAPE GUIDELINES

- GENERAL**
 - 1.1 The Contractor shall familiarise themselves with the site prior to tender.
 - 1.2 The Contractor will be held responsible for any damage to utility services, pipes, building structures, paving surfaces, fencing, footways, kerbs, roads and existing plant material.
 - 1.3 The site is to be left in a clean and tidy condition at the completion of works to the satisfaction of the Superintendent.
 - 1.4 No work involving an extra shall be undertaken unless approval is first obtained from the Superintendent.
 - 1.5 No substitute of material shall be made unless approval is given by the Superintendent.
 - 1.6 The Contractor shall continuously maintain all areas of the Contract during progress of the works specified.
- SITE PREPARATION**
 - 2.1 Prepared sub-grade is to be free of stones larger than 100mm diameter, cement, rubbish and any other foreign matter that could hinder plant growth.
- MASS PLANTED AREAS**
 - 3.1 Once clear of weed growth, grass and debris, sub-grade should be cultivated to a minimum depth of 150mm incorporating 'Dynamic Lifter' or equivalent at the manufacturers recommended rates.
 - 3.2 Weeds shall be controlled by a combination of chemical and hand removal techniques.
- PLANTING**
 - 4.1 All plant material is to be hardened off, disease and insect free and true to species, type and variety. Plants are to be well grown but not root bound and shall comply with Natispec - 'Guide to Purchasing Landscape Trees'.
 - 4.2 All plants are to be removed from their containers prior to planting with as little disturbance to the root system as possible.
 - 4.3 Planting shall not be carried out in dry soil or extreme weather conditions.
 - 4.4 Plants should be planted at the same depth as the plants were in the containers and allow for a shallow saucer of soil to be formed around the plant to aid the penetration of water.
 - 4.5 All plant material should be watered thoroughly immediately after planting.
 - 4.6 The Contractor shall be responsible for the failure of plants during construction, except for acts of vandalism.
 - 4.7 Labels shall be removed entirely from the plants.
- STAKING**
 - 5.1 Trees should be firmly attached to the stakes, in a way to avoid damage to the stem while allowing a small degree of movement.
- TURF AREAS**
 - 6.1 Turf areas should be cultivated before turfing by ripping or harrowing.
 - 6.2 At the completion of turfing the whole area shall be thoroughly soaked and kept moist till the completion of landscape works.
- MULCH**
 - 7.1 Mulch for all general mass planted beds shall be 'Droughtmaster' mulch as supplied by A.N.L. or similar.
- SOIL MIXES**
 - 8.1 Soil mix for mass planted areas shall be 3 parts site soil to 1 part 'Organic Garden Mix' as supplied by A.N.L. or equivalent.
 - 8.2 Soil mix for street tree planting - refer to Council specification.

MAINTENANCE

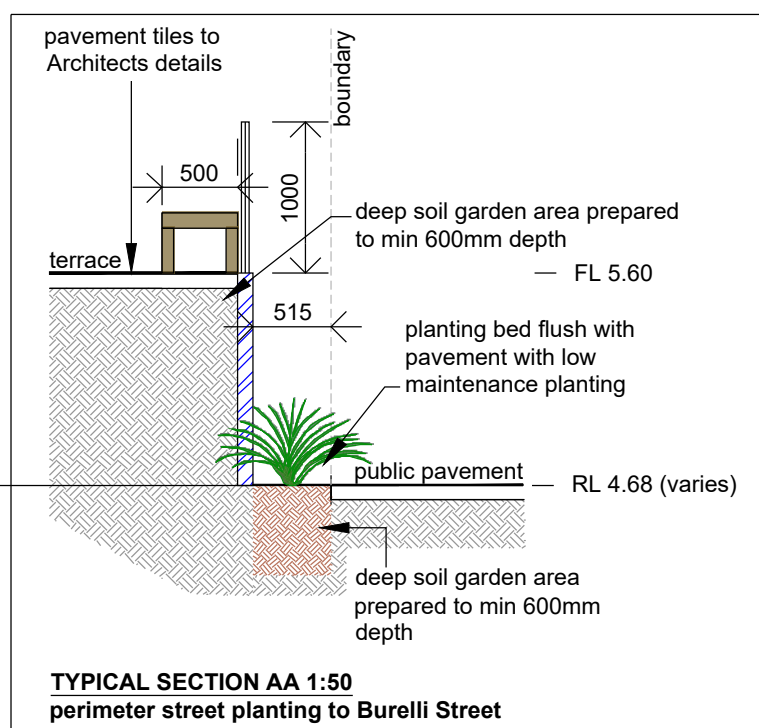
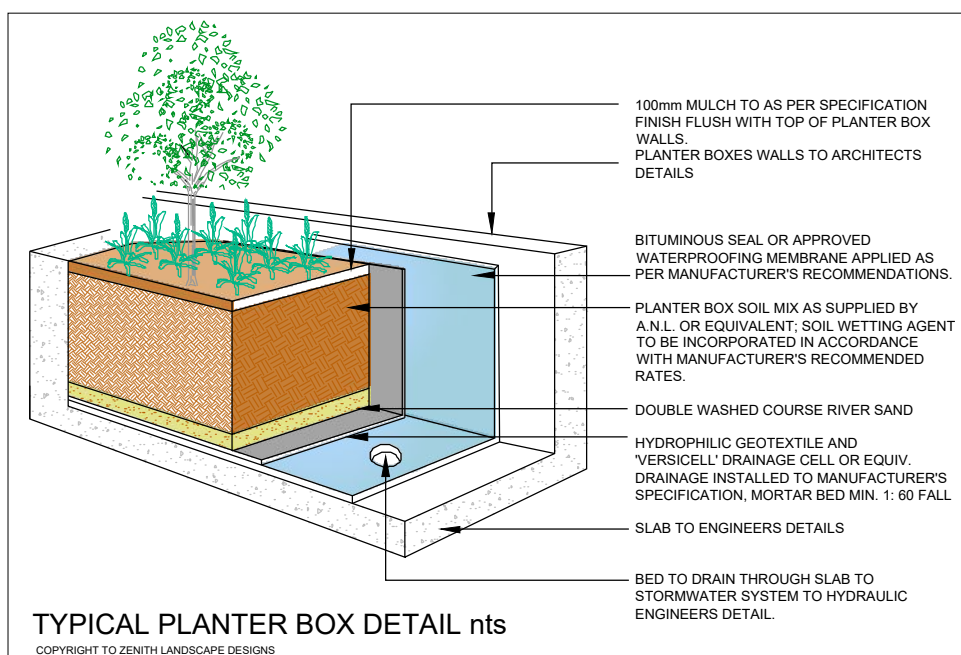
1. These works shall be in addition to the construction contract.
2. The Contractor shall commence and fully implement the short term maintenance after Practical Completion has been confirmed by the Superintendent.
3. The Contractor shall carry out maintenance works for a minimum period of 26 weeks
4. Maintenance works shall include the following works :
 - a. Mow lawns and trim edges each 10 days in summer and each 14 days in winter.
 - b. Water all planting and lawn areas in order to ensure adequate soil moisture at all times.
 - c. Remove any weed growth from all planting areas.
 - d. Spray and control pests and diseases as required.
 - e. Replace plants which fail with plants of similar size and quality as originally planted.
 - f. Adjust ties to trees as necessary.
 - g. Make good any erosion or soil subsidence which may occur.
 - h. Maintain all mulched areas in a clean and tidy condition to the depth as originally specified.
 - i. Make good any defects or faults arising from defective workmanship.

- Note: The Contractor is not to be held responsible for the theft or vandalism of any plants during the maintenance period
5. Advanced trees shall be individually inspected at least once a month in order to determine their health and vigour. Should the trees exhibit any signs of disease, pest infestation or poor growth then a qualified arborist shall be consulted within 14 days in order to determine the most appropriate course of action. Recommended treatment shall then be commenced within 7 days and shall continue until the problem is eliminated.
 6. When the maintenance period is completed the Contractor shall notify the Superintendent. The site shall then be inspected and if to the satisfaction of the Superintendent the responsibility will be handed over to the Client for on-going maintenance.

EXISTING TREE SCHEDULE

TREE No.	TREE	HGT. (m)	CAN. (m)	TNK. (m)	condition	retain/ remove	COMMENTS
1	London Plane	9	3	0.24	fair	RETAIN	As per Arborist report
2	London Plane	14	6	0.46	good	RETAIN	As per Arborist report
3	London Plane	14	5	0.34	good	RETAIN	As per Arborist report

REFER TO ARBORIST REPORT AS PREPARED BY ADVANCED TREESCAPE CONSULTING FOR DETAILED TREE INVENTORY, TREE PROTECTION AND TREE MANAGEMENT REQUIREMENTS



2.0 FOOTWAY PAVEMENTS

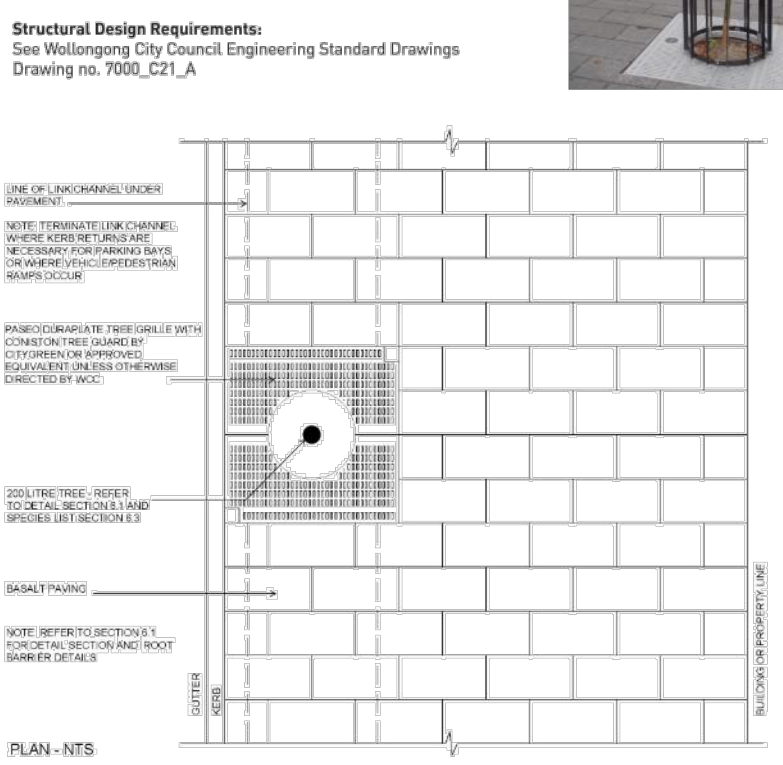
2.1 CORE AND CIVIC STREETS

Pavement:
Main body of pavement to be Basalt Dark by Nustone (or approved equal) dark grey basalt with an exposed finish, 400 x 300 x 40mm, lay perpendicular to kerb, maximum crossfall 2.5% (see Section 3.1 for driveway crossing and pedestrian ramp detail).

Sealant: Penetrating sealer 'Spirit Natural Paving Seal' by Spirit Marble & Tile Care Pty Ltd (or approved equal).

Tree Pit Requirements:
Tree Grate: Duralplate Paseo by Cylgreen, 1200mm x 1200mm with integrated watering inlet model no. RSPRED-AUJ (or approved equal).
Tree Guard: Coniston by Cylgreen, 1800mm high x 600mm diameter (or approved equal).

Structural Design Requirements:
See Wollongong City Council Engineering Standard Drawings Drawing no. 7000_C21_A

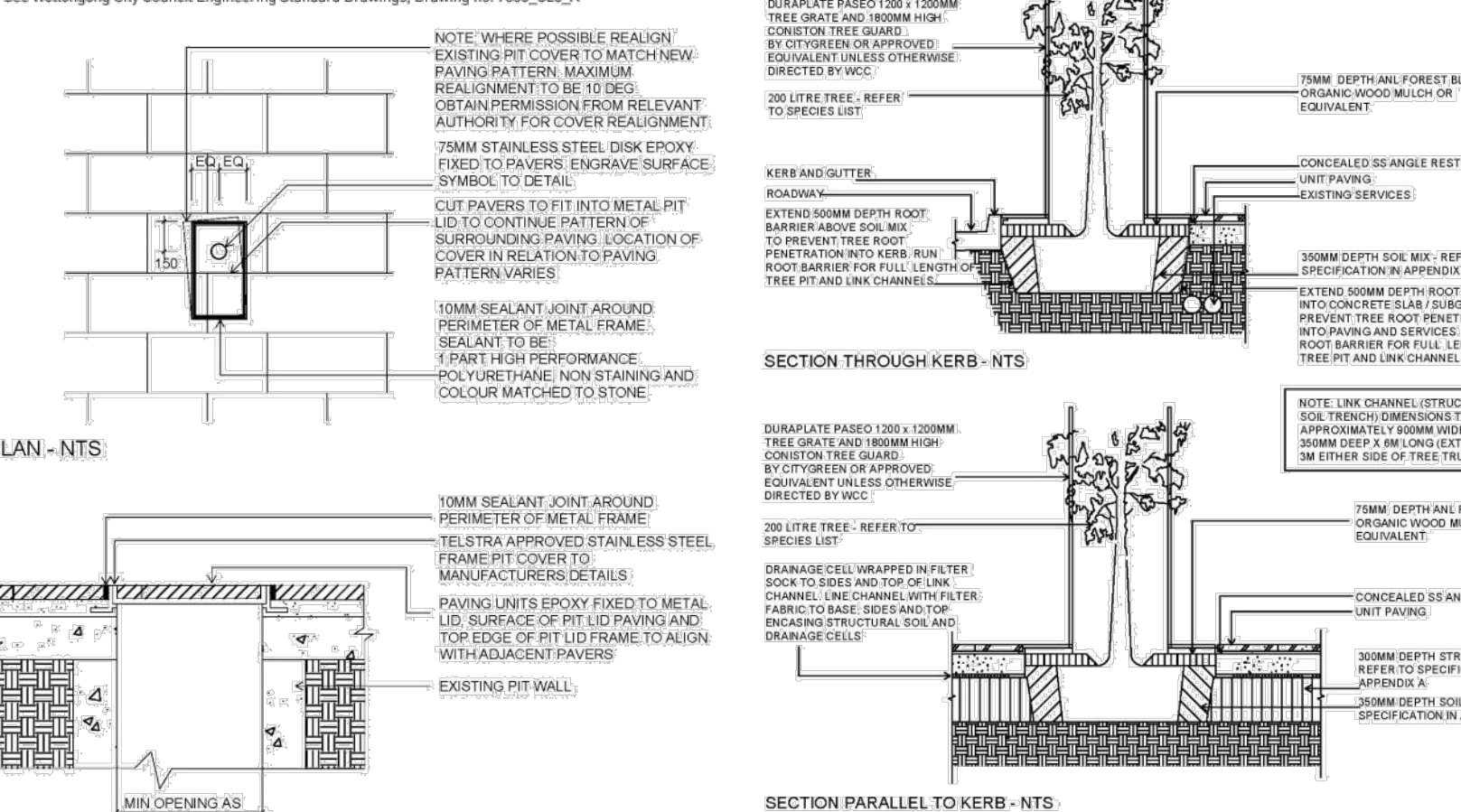


4.0 SERVICE LIDS IN FOOTWAY

CORE / CIVIC / CITY ENTRY STREETS

Pit lids are to be adjusted and replaced as a part of footway upgrades at the developer's expense. Pit lid types are to be approved by the relevant service authority, and constructed from either concrete, cast iron, concrete in-fill or power in-fill, as directed by WCC.

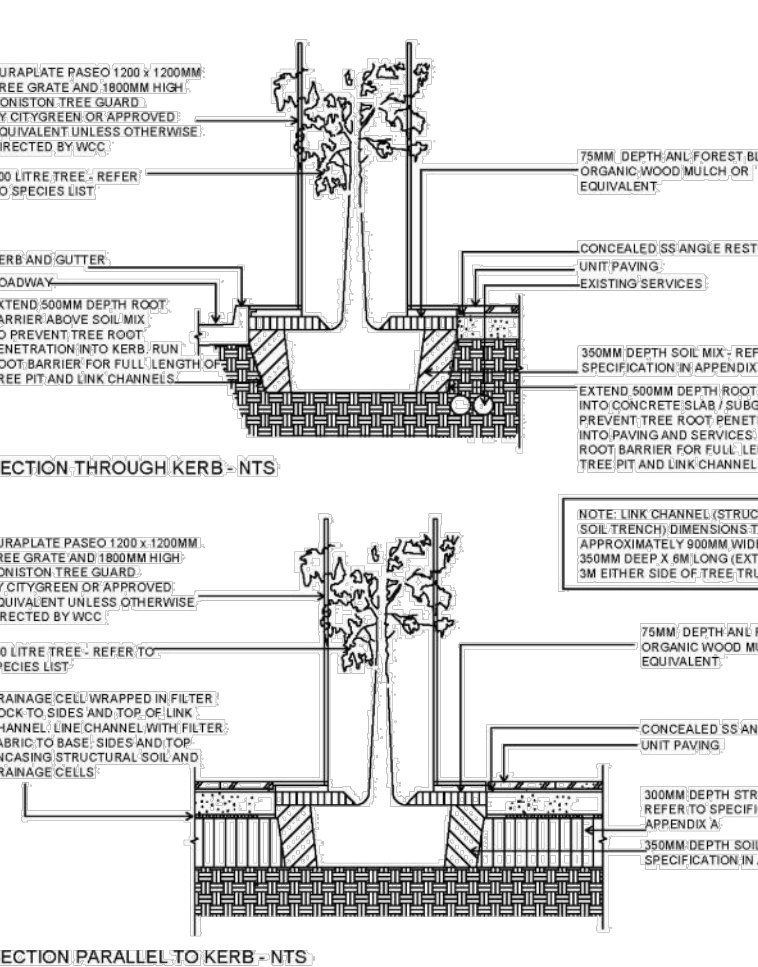
See Wollongong City Council Engineering Standard Drawings, Drawing no. 7000_C25_A



6.0 STREET TREE PLANTING

6.1 CORE / CIVIC / CITY ENTRY / MINOR CIVIC / WATERFRONT STREETS

Note: Street trees installed as part of a development will be included in the landscape maintenance contract for the establishment period for the development site.



3.0 CROSSINGS

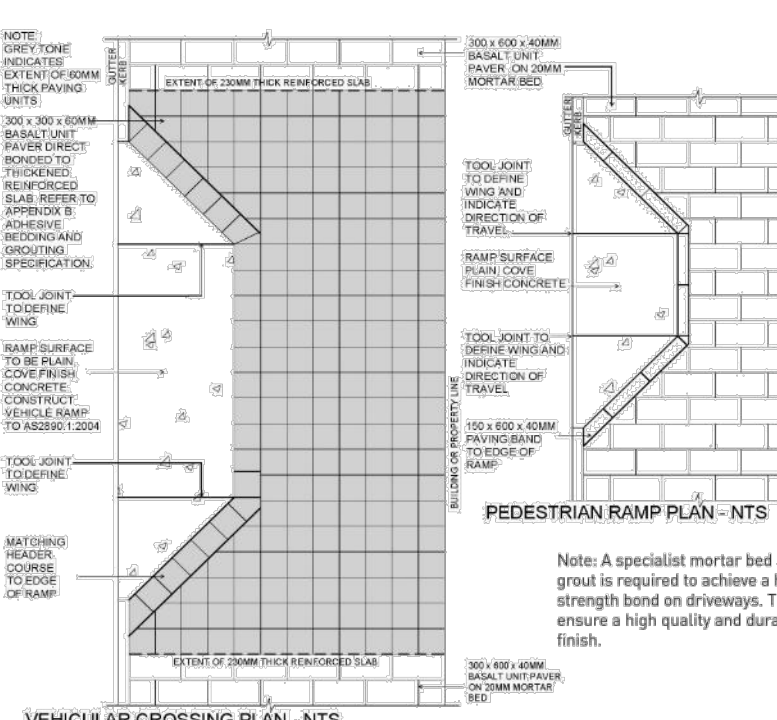
3.1 CORE AND CIVIC STREETS

Pavement:
Main body of pavement to be Basalt Dark by Nustone (or approved equal) dark grey basalt with an exposed finish, 300 x 300 x 40mm, maximum crossfall 2.5%. Samples to be approved by WCC Manager Project Delivery prior to construction. Pedestrian & Vehicle Ramp: Plain, core finish concrete. Note: See Appendix B for Adhesive Bidding and Grouting Specification

Sealant:
Penetrating sealer 'Spirit Premium Seal' by Spirit Marble & Tile Care Pty Ltd (or approved equal).

Structural Requirements Driveway:
Subbase: 100mm DGB 20 compacted to 98% modified density
Base: 220mm thick NSMMP concrete reinforced with SL2mesh top and bottom. Bottom finish surface to create smooth finish in preparation for paving units.
Pavement: 300 x 300 x 40mm basalt paving tiles on 10mm Latexcrete adhesive bed (or approved equal), with grout filled 3mm maximum vertical gaps.

Structural Design Requirements:
See Wollongong City Council Engineering Standard Drawings Drawing no. 7000_C23_A



VEHICULAR CROSSING PLAN - NTS

APPENDIX A

TREE PLANTING SPECIFICATION

TREE SELECTION CRITERIA

Trees are to be selected in accordance with AS2303:2015 Tree Stock For Landscape Use

STREET TREE LAYOUT

The limitations to the positioning of street trees on footways immediately behind the kerb line are listed below:

LIMIT

Street intersection

Telegraph pole

Storm water inlet

Major underground service junction

Bus stops

Traffic lights

Driveways

CLEARANCE NEEDED

10m from intersection kerb line

5m from centre of pole

2m from edge of inlet

3m from edge of junction box

No trees planted along length of stop.

10m from pole of traffic lights

4m from vehicle crossing

ROOT BARRIER

Lay continuous lengths of root barrier to protect underground services and prevent root penetration directly under pavement surface. When installing the root barrier on the base of the tree pit and link channel create a high point in the middle to prevent water ponding. Sprinkle Casoron (or approved equal) - root growth inhibitor 100mm wide band outside the perimeter of the excavated pit before placing the root barrier. Use 20g 20g of Casoron (or approved equal) - root growth inhibitor per 1sqm.

SUB SOIL DRAINAGE

Ensure positive drainage to all tree pits prior to backfilling. Install sub-soil drainage lines and connect to available stormwater system. Notify the Certifying Authority, giving two days notice for inspection of drainage operation prior to backfilling.

SOIL TYPES

Submit sample from suppliers for testing by a competent laboratory for conformance to AS4419.

A) STANDARD SOIL MIX

To be used as the growing medium in tree pits to surround tree rootball. The soil mix shall be Gold Blend Mix by Solco @ or approved equal.

B) STRUCTURAL SOIL

For use in link channels and as a sub-base for pavements around tree pits.

Structural soil mix shall be a thoroughly combined mix of 4 parts aggregate to 1 part filler soil mix as described below.

Aggregate shall be 40mm crushed and washed high strength blue metal or granite gravel. Gravel shall be clean and free from clay and other matter. Submit sample for Approval.

The aggregate shall have the following particle size distribution:

AS Sieve	Percent Passing
5.0	100
10	100
37.5	90-100
26.5	0-75
19	<15
13.2	<2
9.5	<2
6.3	<2
4.75	<2

Filler Soil shall be a thoroughly combined mix of 1 part sandy loam to 1 part dolomite with the following properties:

Organic Matter <1% by weight, PH in water 5.5 - 6.5, Electrical Conductivity 1.2 dS/m, Ammonium 20-250mg/kg, Phosphorus 10-50mg/kg

WATER RETENTION MATERIAL WITHIN SOIL MIX
Incorporate water retention material through soil mix, such as Urbanscape Landscape Flox (or approved equal) at a rate of 200 litres per cubic metre of soil, as per manufacturers recommendations.

MAINTENANCE

All newly planted street trees must be installed with a watering pipe as per the details in Section 6.1 and 6.2 to allow watering. Newly planted street trees require deep watering once a week during their first 12 months. At each watering the guards should be checked and repaired or tightened as necessary.

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37-39 BURELLI STREET
WOLLONGONG
NEXT CONTRACTING PTY LTD

TITLE:	LANDSCAPE PLAN	SCALES:	1:100	REVISION:
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