Drawing List				
Sheet No.	**Sheet Name**	**Sheet Size**	**Rev. Date**	**Project No.**
L-00	TITLE PAGE	A1	4/3/19	1173
L-01	LANDSCAPE MASTERPLAN	A1	4/3/19	1173
L-02	DESIGN INTENT IMAGES	A1	4/3/19	1173
L-03	AREA A - LANDSCAPE PLAN	A1	4/3/19	1173
L-04	AREA B - LANDSCAPE PLAN	A1	4/3/19	1173
L-05	AREA C - LANDSCAPE PLAN	A1	4/3/19	1173
L-06	PLANTING SCHEDULES	A1	4/3/19	1173
L-07	TYPICAL DETAILS	A1	4/3/19	1173
L-08	GRASS PAVE (Sure Pave Permeable Paving)	A1	4/3/19	1173

3 QUARRY ROAD DURAL NSW LANDSCAPE DESIGN

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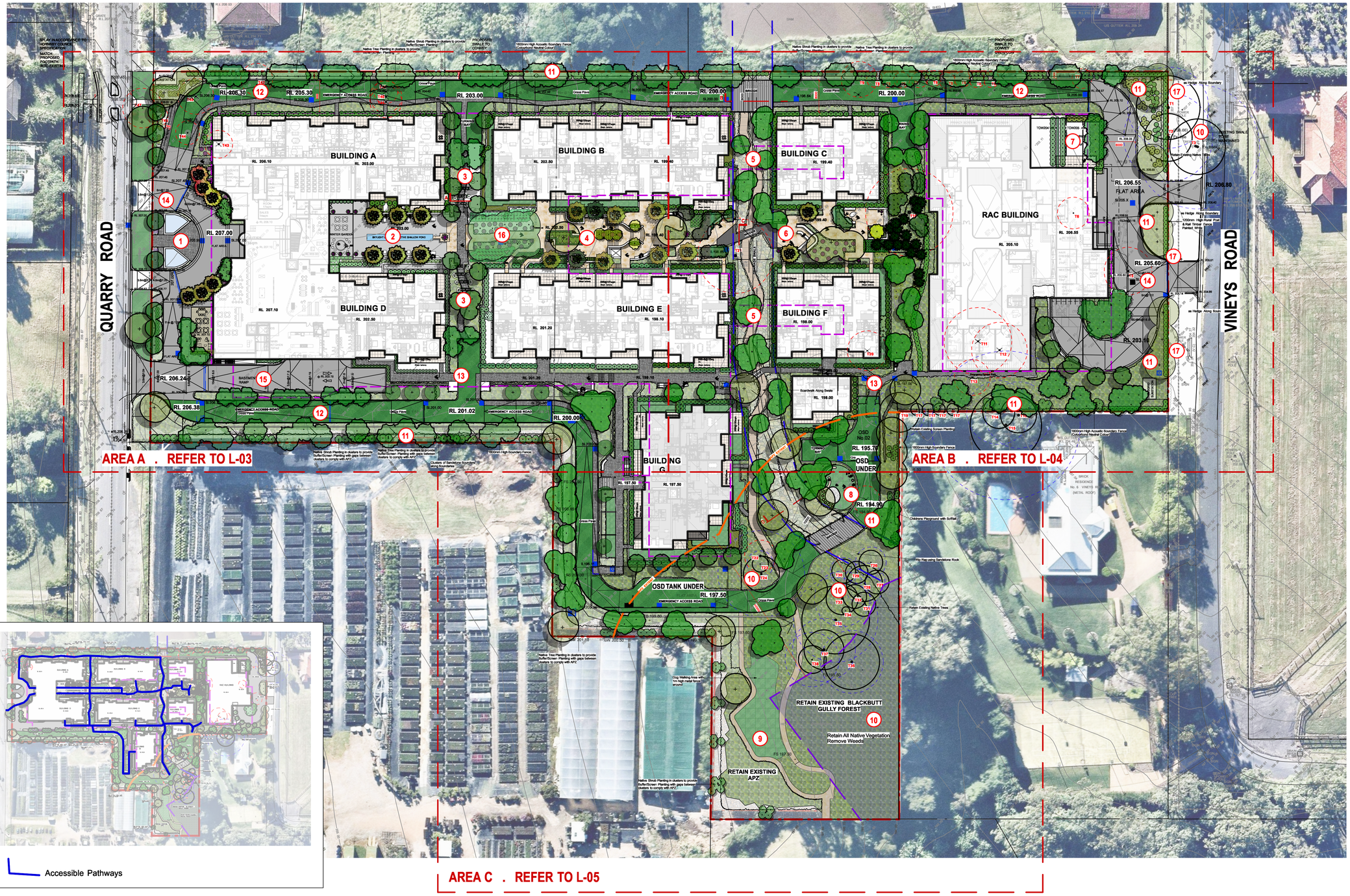
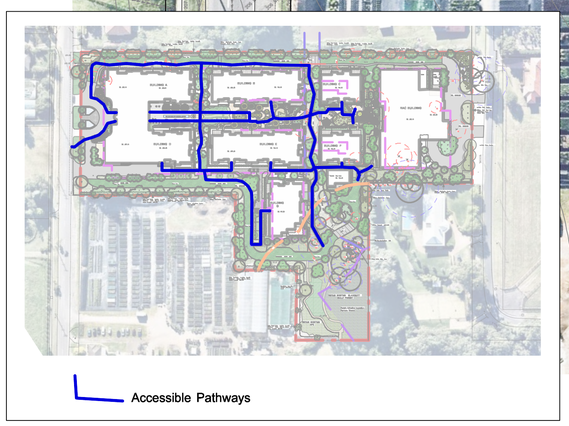
Project	DA LANDSCAPE PLAN		
Address	3 QUARRY RD, DURAL	Scale.	N/A
Drawing Title	TITLE PAGE		
Client	Zhiva Living	Drawing No.	1173

Page

L-00 E





LEGEND :

1. MAIN ENTRANCE WITH REFLECTING POND
2. POND WITH SKYLIGHT TO THE POOL UNDER
3. ROSE ARBOR WALK
4. FORMAL MAIN COURTYARD
5. BOARDWALK WITH BALUSTRADE OVER SWALE
6. INFORMAL SEATING COURTYARD
7. LAWN AREA
8. CHILDRENS PLAYGROUND
9. DOG WALKING AREA (FENCED)
10. RETAIN ENDEMIC TREES
11. NATIVE TREE BUFFER PLANTING
12. EMERGENCY ACCESS ROAD 'Grass Pave'
13. CRAZY PAVE PEDESTRIAN LINK
14. DRIVEWAY ACCESS
15. CARPARK RAMP
16. MANCHURIAN PEAR WALK
17. 1200mm POST & RAIL WHITE TIMBER FENCE

TREES LEGEND :

T1 — TPZ

EXISTING TREE TO BE RETAINED (refer to Arborist Report)

EXISTING TREE TO BE REMOVED

LEGEND

- BITUMEN DRIVEWAY
- TURF AREAS 'T'
- GRASS PAVED
- LANDSCAPED GARDENS
- PROPOSED BUILDING
- MAIN WALKWAY PAVING
- CRAZY PAVE
- DECK AREA
- PRIVATE COURTYARD - TILES
- STEEL BRIDGE OVER SWALE
- FEATURE POTS & URNS
- BOUNDARY
- BASEMENT LINE
- SWALE DRAINAGE LINE
- DRAINAGE PIT

LANDSCAPE CALCULATIONS:
SITE AREA = 29,695sqm

Landscape Area (excluding emergency access road) is 11,729sqm or 39.5% of Site Area

Deep Soil Area (excluding emergency access road and Podium Planting) is 10,455sqm or 35.2& of Site Area

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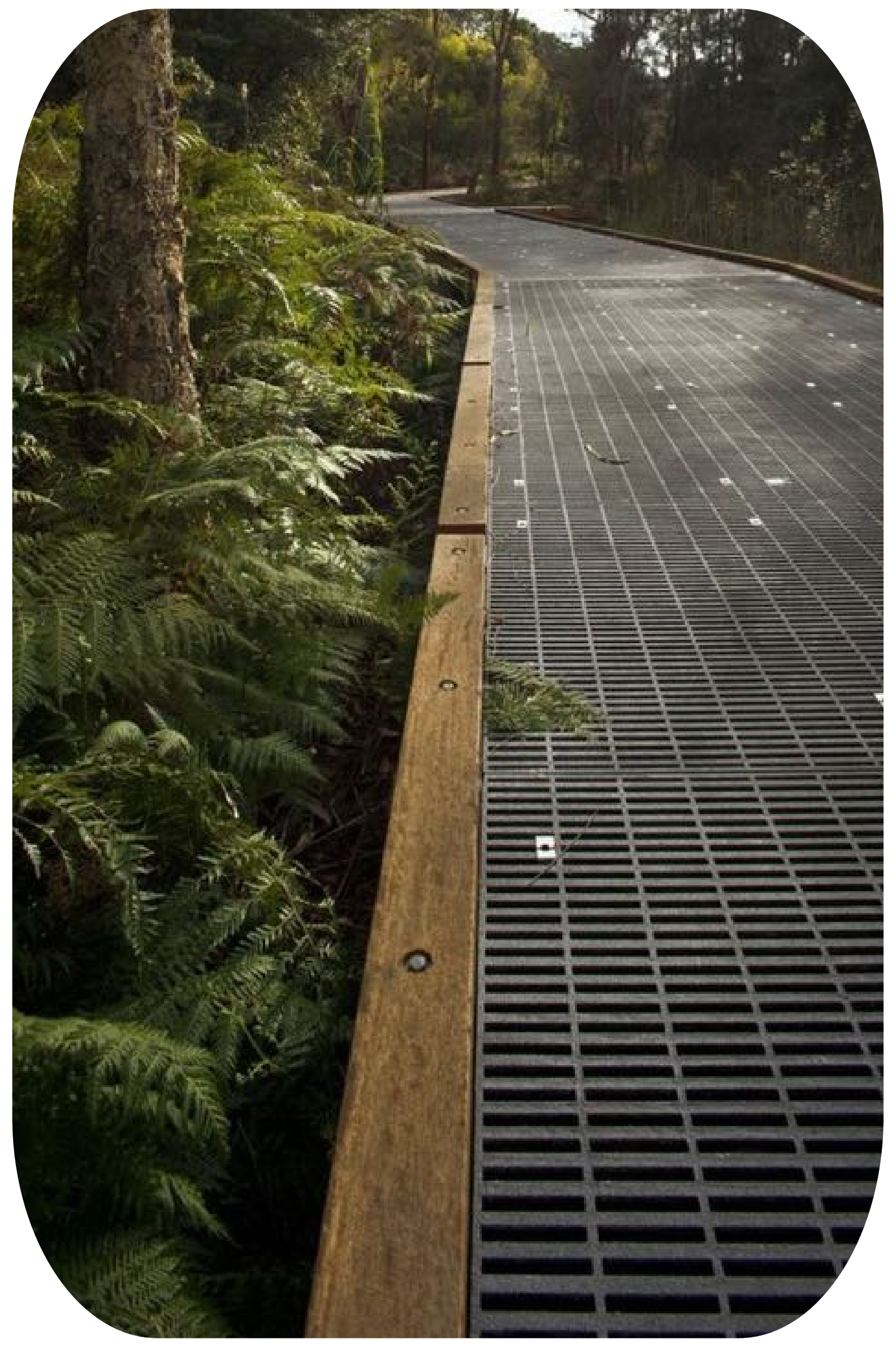
Address	3 QUARRY RD, DURAL — Scale. 1:500@A1
Drawing Title	LANDSCAPE MASTERPLAN
Client	Zhiva Living — Drawing No. 1173

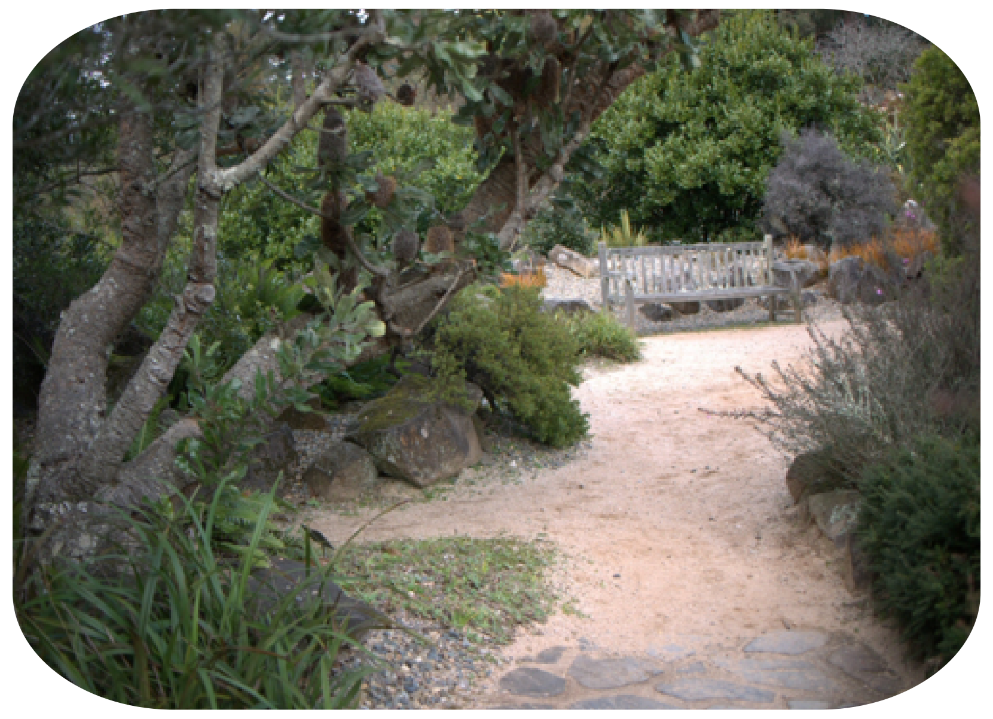
Page
L-01 E

















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Drawing Title	DESIGN INTENT IMAGES		
Client	Zhiva Living	Drawing No.	1173

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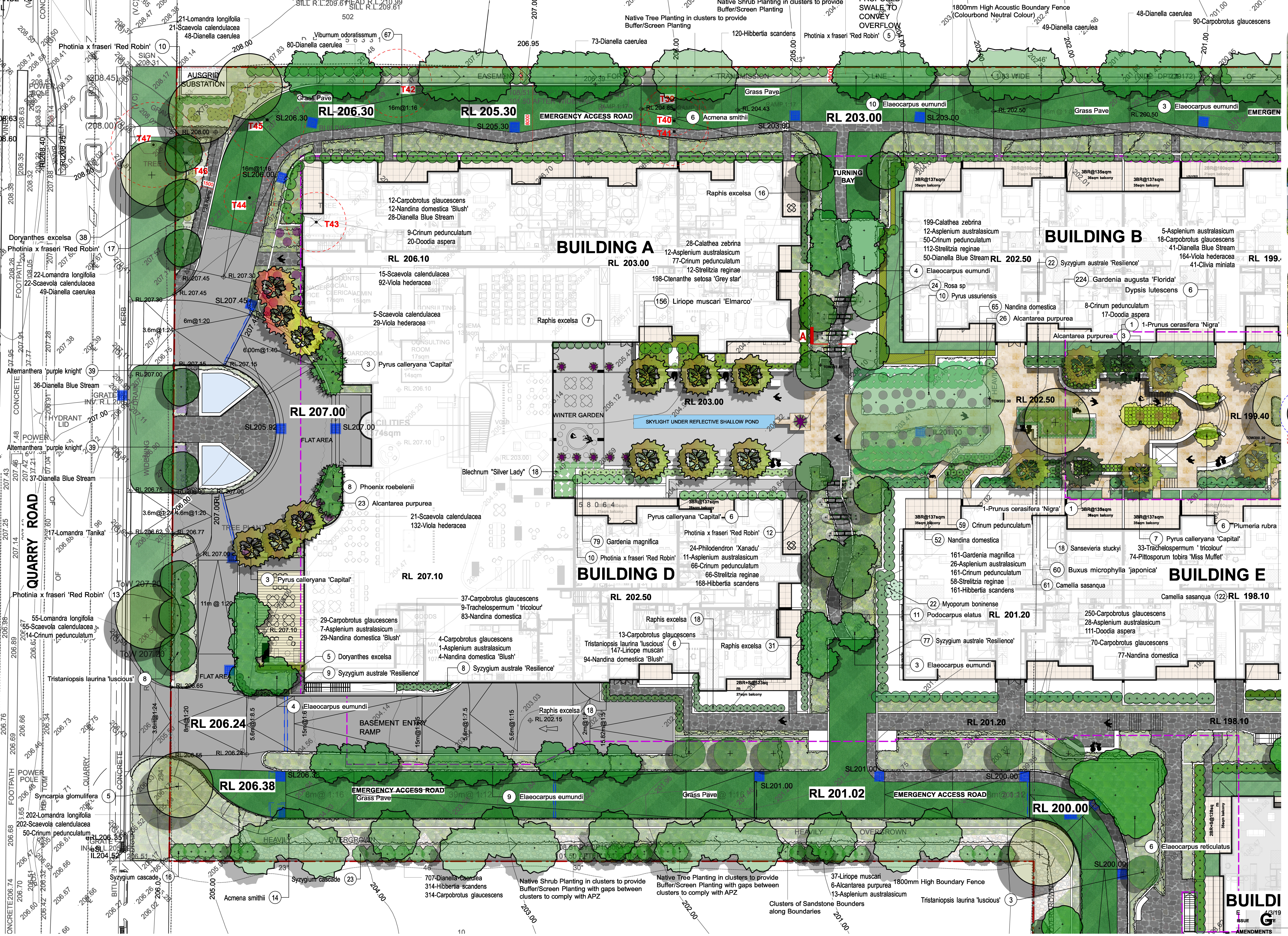
L-02 E



TREES LEGEND :

- T1 TPZ EXISTING TREE TO BE RETAINED (refer to Arborist Report)
- EXISTING TREE TO BE REMOVED

LEGEND

- BITUMEN DRIVEWAY
- TURF AREAS 'T'
- GRASS PAVED
- LANDSCAPED GARDENS
- PROPOSED BUILDING
- MAIN WALKWAY PAVING
- CRAZY PAVE
- DECK AREA
- PRIVATE COURTYARD - TILES
- STEEL BRIDGE OVER SWALE
- FEATURE POTS & URNS
- BOUNDARY
- BASEMENT LINE
- SWALE DRAINAGE LINE
- ☒ DRAINAGE PIT

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Scale.	1:200@A1
Drawing Title	AREA A - LANDSCAPE PLAN
Client	Zhiva Living
Drawing No.	1173

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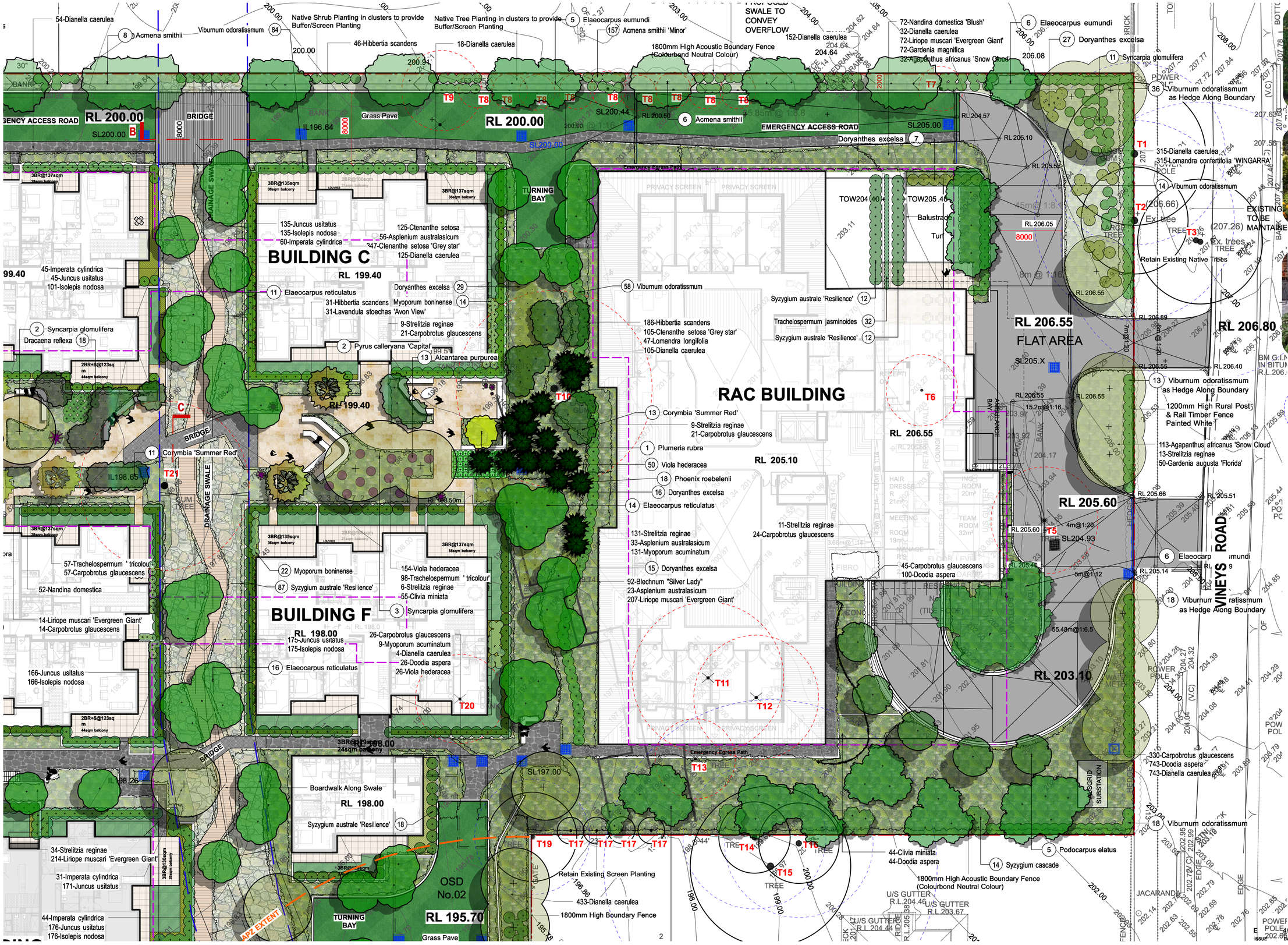
L-03 E



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Drawing Title	AREA B - LANDSCAPE PLAN		
Client	Zhiva Living	Drawing No.	1173

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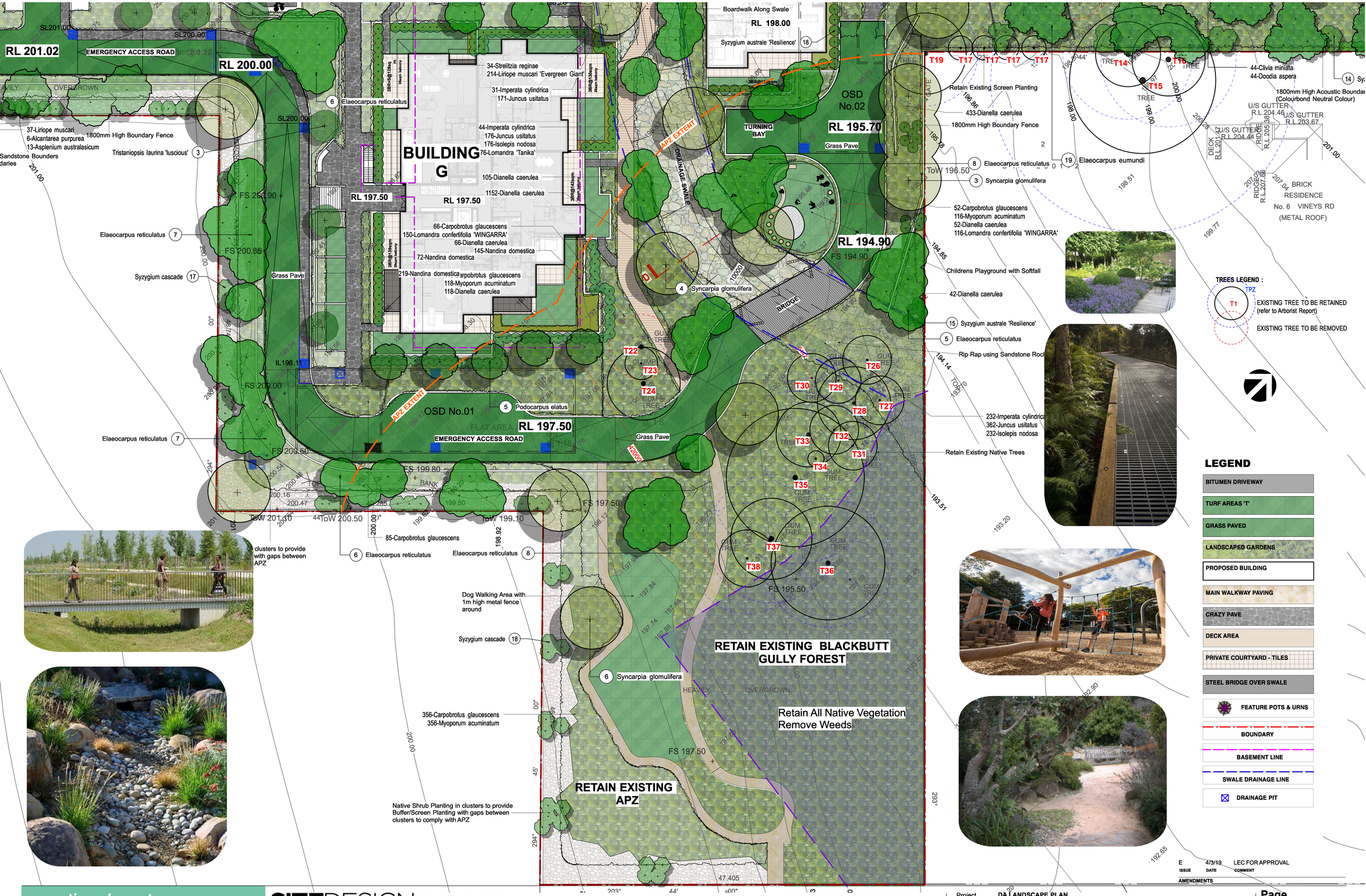
L-04 E



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Drawing Title	AREA C - LANDSCAPE PLAN		
Client	Zhiva Living	Drawing No.	1173

Page

L-05 E

Plant List

ID	Qty	Common Name	Botanical Name	Scheduled Size	Mature Height	Mature Spread
Trees						
AS	34	Lillypilly	Acmena smithii	150L	10	6
cor-sr	24	Dwarf Summer Red	Corymbia 'Summer Red'	45L	3 - 5m	3
EE	69	Smoothed leaved Quandong	Elaeocarpus eumundi	100L	5 - 10m	2.0 - 3.5m
EReti	88	Blueberry Ash	Elaeocarpus reticulatus	45L	8m	4
Pho-roe	26	Pygmy date palm	Phoenix roebelenii	2m clear	3	3
Plum-rub	7	Frangipani	Plumeria rubra	100L	3 - 5m	3.5 - 6m
Pod-el	21	Plume Pine	Podocarpus elatus	45L	4m	2m
PN	2	Purple leaved Cherry Plum	Prunus cerasifera 'Nigra'	45L	5 - 10m	3.5 - 6m
PCall-c	21	Capital Flowering Pear	Pyrus calleryana 'Capital'	150L	10m	3m
Pyr-us	10	manchurian pear	Pyrus ussuriensis	300L	9m	6
Syn-glo	34	Turpentine	Syncarpia glomulifera	150L	20m	6 - 10m
TLaur-lus	17	Kanooka, Water Gum	Tristaniopsis laurina 'luscious'	150L	5 - 10m	3.5 - 6m
Shrubs						
Acm-smi	157	Lillypilly	Acmena smithii 'Minor'	200mm	2-3m	2m
bux-mi'ja'	60	Japanese Box	Buxus microphylla 'japonica'	300mm	0.5 - 1.2m	0.5m
Cam-sas	183	Sasanqua Camellia	Camellia sasanqua	400mm	1800mm Hedge	1.2m Hedge
dra-re	18	Song of India	Dracaena reflexa	300mm	1.5m	1m
dyp-lut	6	Golden Cane Palm	Dypsis lutescens	300mm	2-4m	2-3m
Gar-aug-fl	274	Gardenia	Gardenia augusta 'Florida'	200mm	1m	1m
gar-ma	364	Ture Love Gardenia	Gardenia magnifica	300mm	0.8 - 1.5m	1m
lav-st'av'	31	Avonview Lavander	Lavandula stoechas 'Avon View'	200mm	0.8m	0.6m
myo-acu	730	Boobialla	Myoporum acuminatum	200mm	1.5 - 3m	2.0 - 3.5m
myo-acu-1	58	Boobialla	Myoporum boninense	200mm	1m	1.5m
Nad-do	765	Sacreed bamboo	Nandina domestica	200mm	0.8 -1m	1m
nan-do'bl'	263	Sacreed bamboo 'Blush'	Nandina domestica 'Blush'	200mm	0.8 -1m	1m
Phi-xan	24	Winterborn Philodendron	Philodendron 'Xanadu'	200mm	0.9 - 1.5m	0.9 - 1.2m
Pho-fra'RR'	154	Red Robin Photinia	Photinia x fraseri 'Red Robin'	200mm	1.5m	2m
Pit-tob-mm	74	Pittosporum Miss Muffet	Pittosporum tobira 'Miss Muffet'	200mm	0.6-1.2m	1.2 - 2.0m
rap-exc	90	Lady Palm	Raphis excelsa	300mm	3 - 5m	2.0 - 3.5m
Ros-sta	24	Climbing Rose	Rosa sp	200mm	1m	1.2 m
san-stu	18	Mother in-laws Tongue	Sansevieria stuckyi	200mm	0.75 - 0.9m	0.6 - 0.9m
Str-reg	461	Bird Of Paradise	Strelitzia reginae	200mm	0.9 - 1.5m	0.9 - 1.2m
syz-au're'	260	Lilly Pilly	Syzygium australe 'Resilience'	300mm	2-5m	1-2m
Syz-cas	88	Brush Cherry, Scrub Cherry	Syzygium cascade	45L	1-3m	1-3m
Vib-odo	308	Viburnum	Viburnum odoratissmum	200mm	1500mm hedged	1000mm hedged
Ground Covers						
alc-pu	71	Silver plum	Alcantarea purpurea	150mm	0.5m	0.5
alt-pk'	78	Ruby Leaf	Alternanthera 'purple knight'	150mm	0.6 - 1.2m	0.8m
Ble-sl	110	Fishbone Water Fern	Blechnum "Silver Lady"	150mm	0.75 - 0.9m	0.3 - 0.6m
cal-ze	227	Zebra Plant	Calathea zebrina	150mm	0.3 - 0.6m	0.5m
Car-gla	2169	Coastal Moonflower, Pigface, Iceplant	Carpobrotus glaucescens	150mm	0.0 - 0.3m	1.2 - 2.0m
Cte-set-1	125	Hairy Prayer Plant	Ctenanthe setosa	150mm	0.45 - 0.60m	0.0 - 0.3m
cte-se'gs'	650	Grey Star ctenanthe	Ctenanthe setosa 'Grey star'	150mm	0.5 - 1.8m	0.8m
Hib-sca	1026	Snake Vine	Hibbertia scandens	150mm	---	---
sca-cal	341	Dune Fan Flower, Scented Fan Flower	Scaevola calendulacea	150mm	0.0 - 0.3m	0.9 - 1.2m
tra-tr	197	Tricolour star jassmine	Trachelospermum ' tricolour'	150mm	0.5m	0.8m
Tra-jas	32	Star Jasmine	Trachelospermum jasminoides	150mm	3 - 5m	3.5 - 6m
vio-he	647	Native Violet	Viola hederacea	150mm	0.2m	0.8m
Grasses						
Aga-afri-sc-1	168	Snow Cloud Lily Of The Nile	Agapanthus africanus 'Snow Cloud'	150mm	0.75 - 0.9m	0.3 - 0.6m
Cli-min	140	Bush Lily	Clivia miniata	150mm	0.45 - 0.6m	0.3 - 0.6m
Cri-ped	494	Swamp Lily, River Lily	Crinum pedunculatum	150mm	0.45 - 0.6m	0.9 - 1.2m
dai 'bs'	192	flax lily	Dianella Blue Stream	150mm	0.3 ~ 0.4 metres	0.3 ~ 0.4 metres
Dia-cae	4593	Blue Flax-lily	Dianella caerulea	150mm	0.4m	0.6m
Dor-exc	137	Gymea Lily	Doryanthes excelsa	300mm	1-2m	2-4m
imp-cyl	412	Blady Grass	Imperata cylindrica	150mm	0.3 - 0.45m	0.0 - 0.3m
iso-no	985	Knotted club-rush	Isolepis nodosa	150mm	2m	0.8m
jun-us	1230	tussock grass	Juncus usitatus	150mm	1m	0.8m
lir-mu	184	Turf Lily 'Royale Purple'	Liriope muscari	150mm	0.6m	0.5m
Li-mus'EL	156	Liriope El Marco	Liriope muscari 'Elmarco'	150mm	0.3 - 0.6m	0.15 -0.5 m
Lir-mus'eg'	559	Evergreen Giant Lilyturf	Liriope muscari 'Evergreen Giant'	200mm	0.45 - 0.6m	0.3 - 0.6m
lom-ta	193	Fine-leaved mat rush	Lomandra 'Tanika'	150mm	0.5m	0.6m
lom 'Win'	581	Dwarf matt Rush	Lomandra confertifolia 'WINGARRA'	150mm	0.5m	0.5m
Lom-lon	347	Spiny-headed Mat-Rush	Lomandra longifolia	150mm	0.6m	0.8m
Ferns						
asp-aus	227	Birds Nest Fern	Asplenium australasicum	150mm	1m	1.2m
doo-asp	1061	Rasp Fern	Doodia aspera	150mm	0.3	1m
Total	**22095**					

LANDSCAPE MAINTENANCE NOTES

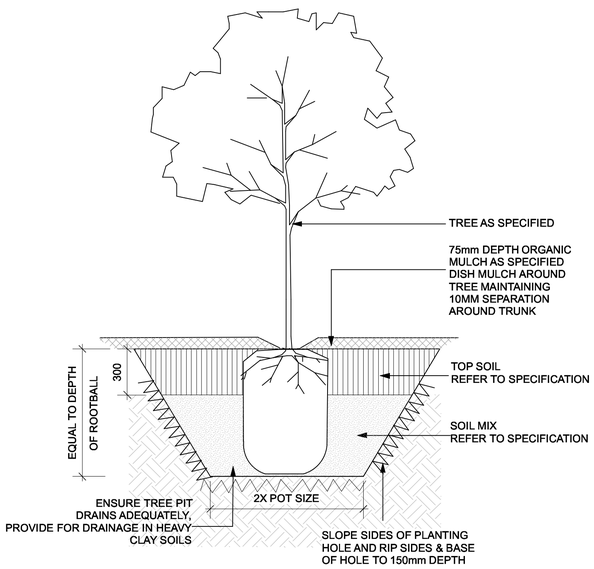
MONTH	MOWING EDGING BLOWING	FERTILISING (SEASOL)	CHECK IRRIGATION	HAND WEED REMOVAL	PRUNING	WEED SPARAYING	WATERING/ IRRIGATION	PLANT REPLACEMENT IF REQUIRED
DEC	W	M	M	W	F	M	D	W
JAN	W	M	M	W	F	M	D	W
FEB	W	M	M	W	F	M	D	W
MAR	F	M	M	F	M	M	D	W
APR	F	N/A	M	F	M	M	D	W
MAY	F	N/A	M	M	M	M	D	W
JUNE	M	N/A	M	M	N/A	N/A	2ND D	W
JULY	M	N/A	M	M	N/A	N/A	2ND D	W
AUG	M	N/A	M	M	N/A	N/A	2ND D	W
SEP	M	M	M	M	N/A	N/A	2ND D	W
OCT	F	F	M	F	M	M	D	W
NOV	F	F	M	F	M	M	D	W

PLANTING ESTABILISHMENT PERIOD - 12 MONTHS
LANDSCAPE MATERIAL ESTABILISHMENT - 12 MONTHS
KEY D-DAILY, W-WEEKLY, F-FORTNIGHT, M-MONTHLY, 2ND DAY,

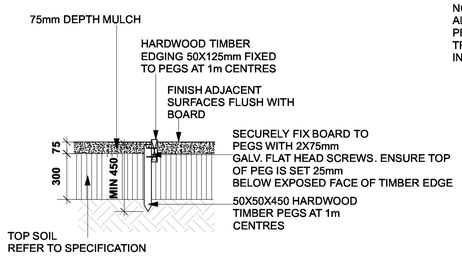
LANDSCAPE MAINTENANCE NOTES

THE CONTRACTOR SHALL CONTINUOUSLY MAINTAIN ALL AREAS OF THE CONTRACT DURING THE PROGRESS OF THE WORKS. THE CONTRACTOR SHALL COMMENCE AND FULLY IMPLEMENT THE SHORT-TERM MAINTENANCE AND ESTABLISHMENT AFTER PRACTICAL COMPLETION HAS BEEN CONFIRMED.
SITE CONTROL: REPORT TO THE PRINCIPAL'S DESIGNATED REPRESENTATIVE ON ARRIVING AT AND BEFORE LEAVING THE SITE.
PLANT ESTABLISHMENT PERIOD: THE PERIOD BETWEEN THE DATE OF PRACTICAL COMPLETION AND THE DATE OF FINAL COMPLETION.
MAINTENANCE/ ESTABLISHMENT PERIOD: 12 MONTHS.

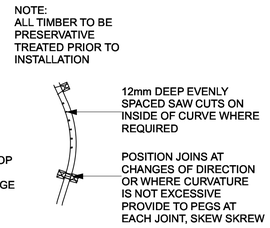
PLANT ESTABLISHMENT: MAINTAIN THE CONTRACT AREA DURING THE PLANT ESTABLISHMENT PERIOD. ENSURE THE GENERAL APPEARANCE AND PRESENTATION OF THE LANDSCAPE AND THE QUALITY OF PLANT MATERIAL AT DATE OF PRACTICAL COMPLETION IS MAINTAINED FOR THE FULL PLANTING ESTABLISHMENT PERIOD.
EXISTING PLANT MATERIAL: MAINTAIN EXISTING PLANTING WITHIN THE LANDSCAPE CONTRACT AREA AS SPECIFIED FOR NEW PLANTING.
REPLACEMENTS: REPLACE FAILED, DEAD AND/OR DAMAGED PLANTS AT MINIMUM 3 WEEK INTERVALS AS NECESSARY THROUGHOUT THE FULL PLANT ESTABLISHMENT PERIOD.
REPORTING: SUBMIT REGULAR REPORTS BY THE LAST FRIDAY OF EACH MONTH SUMMARISING THE GENERAL STATUS OF WORKS. INCLUDE A MAINTENANCE SCHEDULE, A LOG BOOK OF MAINTENANCE ACTIVITY, SOIL TEST RESULTS AS REQUIRED FOR ANY FERTILISING PROGRAMS, AND PLANT REPLACEMENT REQUIREMENTS.
WATER RESTRICTIONS: COORDINATE THE WATER SUPPLY AND CONFIRM THE WATERING REGIME AGAINST RELEVANT GOVERNMENT LEGISLATION AND RESTRICTIONS AT THE TIME.
STAKES AND TIES: REMOVE AT THE END OF THE PLANTING ESTABLISHMENT PERIOD.
TEMPORARY FENCES: REMOVE TEMPORARY PROTECTIVE FENCES AT THE END OF THE PLANTING ESTABLISHMENT PERIOD.
COMPLIANCE: PLANT ESTABLISHMENT SHALL BE DEEMED COMPLETE, SUBJECT TO THE FOLLOWING:
* REPAIRS TO PLANTING MEDIA COMPLETED.
* PESTS, DISEASE, OR NUTRIENT DEFICIENCIES OR TOXICITIES ARE NOT EVIDENT.
* MULCHED SURFACES HAVE BEEN MAINTAINED IN A WEED FREE AND TIDY CONDITION AND TO THE SPECIFIED DEPTH.
* VEGETATION IS ESTABLISHED AND WELL FORMED.
* PLANTS HAVE HEALTHY ROOT SYSTEMS.
* VEGETATION IS NOT RESTRICTING ESSENTIAL SIGHT LINES AND SIGNAGE.
* COLLECTION AND REMOVAL OF LITTER COMPLETED.
* REMOVAL OF MULCH FROM DRAINAGE AND ACCESS AREAS COMPLETED.
* ALL DEFECTS NOTIFICATIONS HAVE BEEN CLOSED OUT.

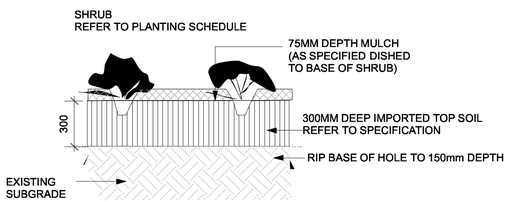


TREE IN GARDEN BED
SCALE 1:20

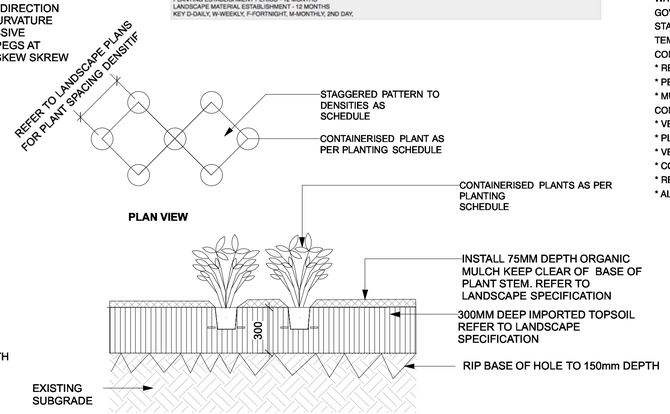


TIMBER EDGING
SCALE 1:20





TYPICAL SHRUB PLANTING DETAIL
SCALE 1:20



TYPICAL GROUNDCOVER PLANTING DETAIL
SCALE 1:20

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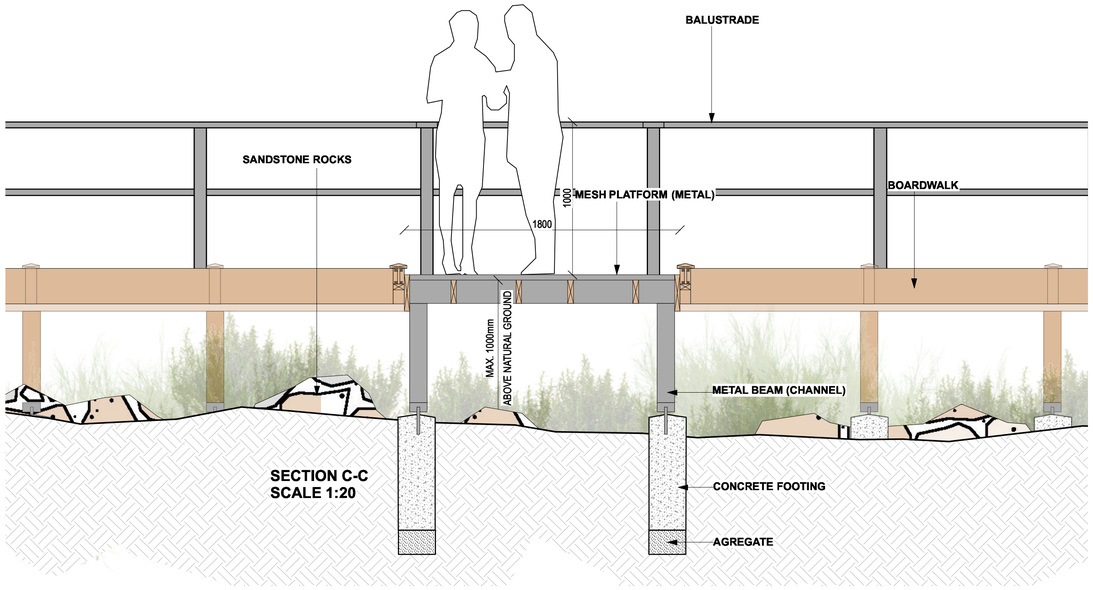
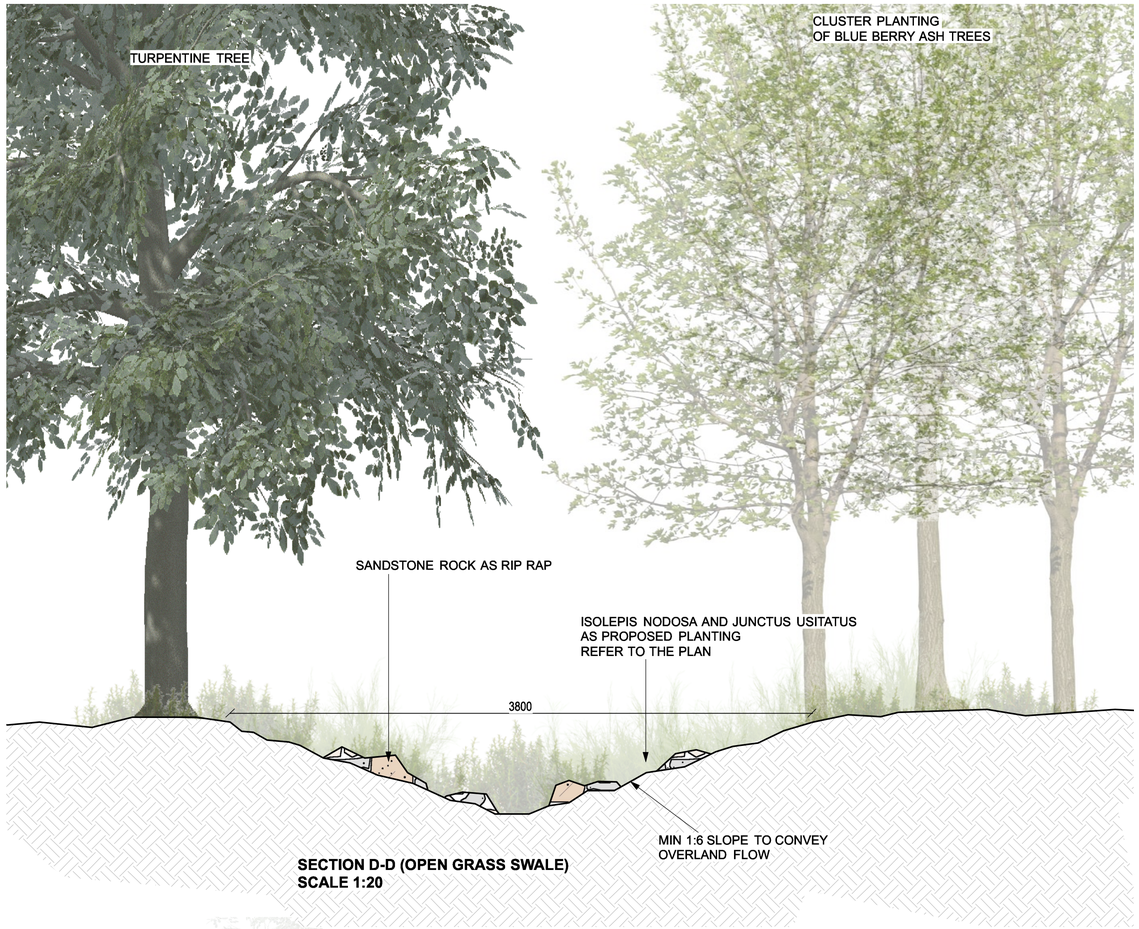
Project DA LANDSCAPE PLAN
Address 3 QUARRY RD, DURAL
Scale. NTS
Drawing Title PLANTING SCHEDULES
Client Zhiva Living
Drawing No. 1173

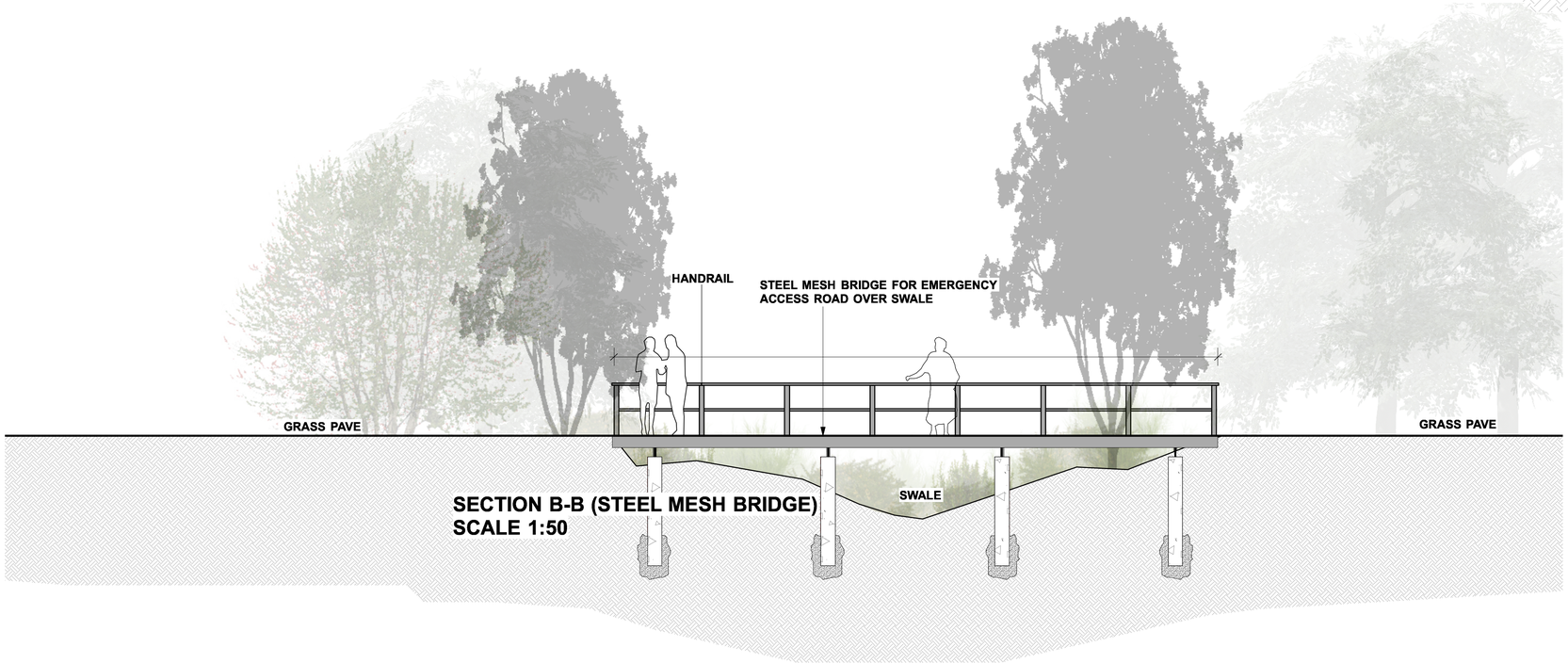
Page
L-06 E



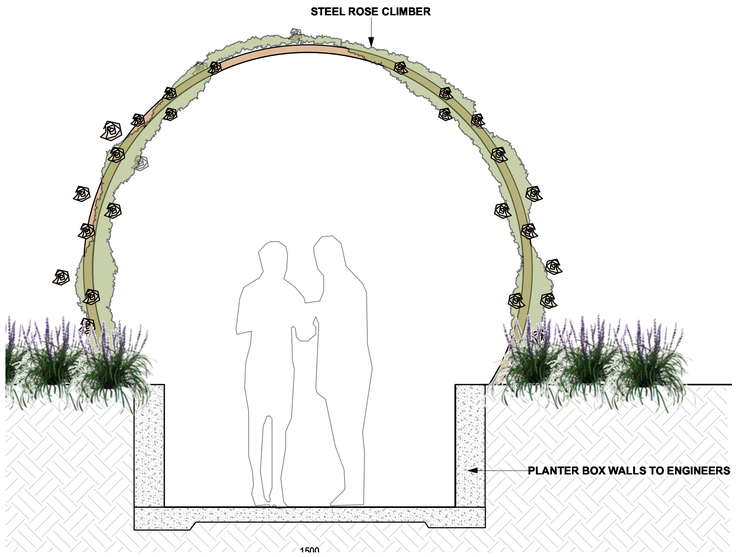
SECTION C-C
SCALE 1:20



SECTION D-D (OPEN GRASS SWALE)
SCALE 1:20



SECTION B-B (STEEL MESH BRIDGE)
SCALE 1:50



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Project	DA LANDSCAPE PLAN		
Address	3 QUARRY RD, DURAL	Scale.	1:20@A1
Drawing Title	TYPICAL DETAILS		
Client	Zhiva Living	Drawing No.	1173

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SurePave®

Permeable Paving Panels

TECHNICAL DATA SHEET	TDS G001 003
ISSUE NUMBER	01
DATE	NOV 2015

STRUCTURE	Interlocking Open Structure Hollow Pavers
LOCKING SYSTEM	Positive Lock Clipping System
PANEL DIMENSIONS	816mm x 612mm x 40mm
MATERIAL	Polypropylene Recycled
UNIT WEIGHT	2kg
CRUSH STRENGTH UNFILLED	>133 tonnes/m²
CRUSH STRENGTH FILLED WITH STONE	>740 tonnes/m²
TEST METHODS	Compression, NZS 3116 : 1991, App A & B

The listed technical values are guiding values, achieved in our laboratories and/or independent testing institutes. Our products are subject to changes without prior notice.

0800 CIRTEX (247 839) I WWW.CIRTEX.CO.NZ

CIRTEX GAIN MORE GROUND

SurePave® for Grass

SurePave® Permeable Paving panels are designed to stabilise and support grass. Create a free draining, strong surface that is environmentally friendly and functional.

Interlocking panels are positioned beneath the grass surface, evenly distributing the load to the base below. This minimises compaction and eliminates pot holes, ponding or damage to the ground below.

Features & Benefits

- Quick and easy to install
- Free draining permeable surface
- Protects tree roots
- Solid, stable surface
- Naturally appealing
- Cost effective
- Easily uplifted to access amenities
- Environmentally friendly
- Rated for residential, commercial and industrial use

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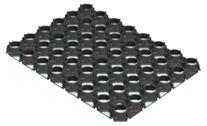
SurePave®



The Heavyweight in Permeable Paving

SurePave® permeable paving panels are the ideal solution for reinforcing grass or gravel in highly stressed areas, vehicle parking, driveways, golf courses, parks or hard stand areas for boats, trailers or caravans.

The robust cellular design of SurePave® offers a perfect paving alternative to concrete while still maintaining all the benefits of a hard pavement.

Porous and free draining SurePave® allows water to be absorbed easily creating a safe and functional surface that is natural and attractive.

Significant features of SurePave® paving panels include a unique positive interlocking system to hold panels in place, a small panel size for ease in transportation and installation, panels are also light and stackable for efficient storage.

Wanting a paving solution that encompasses style and functionality, that can withstand heavy duty usage? Look no further than the SurePave® Paving System.

SurePave® - toughest on the market in permeable paving!

SUREPAVE®

Code	Product	Size
1500	SurePave Black 0.5m² Panel	816mm x 612mm

SUREPAVE® FEATURES

- Super-strong 3.5mm wall thickness to handle traffic and turning
- Able to withstand 700 tonnes per m² when filled
- Panels interlock securely to reduce long-term creep
- High Density Polyethylene for permanent strength and durability

SUREPAVE® SPECIFICATIONS

Module Size	816mm (l) x 612mm (w) x 40mm (h)
Material	100% Recycled High Density Polyethylene
Weight	approx 4.1 kg/m² unfilled
Compressive	> 700 tonnes m² when filled
Strength	(Test method; NZS 3116: 1991, App A & B)

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SUREPAVE®

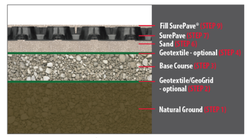
INSTALLATION GUIDE

GRASSED SURFACES

1. Excavate ground to shape and levels to achieve sufficient gradient and load bearing etc.
2. Depending on the soil type and projected traffic loadings, a geotextile and/or geogrid may be laid on the excavated surface.
3. Place and compact a suitable base course material to sufficient depth to take projected loadings, (refer to guide in Table 1), ensuring that the area is shaped to sufficient gradients to prevent ponding.
4. A geotextile can be laid on top of the base course as a separation layer between this and the sandy top soil bedding layer to prevent migration of the particles. This is essential when using a permeable reduced fines base course but optional when using a roading type base course.
5. Install edging restraints and irrigation (if required). For edging restraints, the AluExcel® edging system is designed to work with SurePave®.
6. Place 50mm – 75mm layer of root zone consisting of sandy topsoil, (60 – 70% coarse sand to 30 – 40% good screened topsoil), over the base course layer and screed to level.
7. Lay SurePave® panels on the sandy topsoil layer working from left to right with the connecting lugs (male joiners) on the panel leading. Avoid standing directly on the prepared surface – stand on the SurePave® panels and ensure they interlock together correctly.
8. Panels can be offset by cell increments or cut to shape using simple hand tools to fit around obstructions and curves. The use of cut-pieces which do not have the correct unique, interlocking system should be avoided wherever possible. SurePave® also has allocation for pining to the ground if necessary. I.e On steep slopes or heavy turning areas.
9. Fill the panels with the same root zone mix as used for the bedding layer, (see step 6), to 10mm above the top of the SurePave® panels for consolidation. Use a plate compactor to consolidate the filling material into the pavers. Fill any voids the show due to this process with more root zone mix and leave filling material flush with the SurePave panels.
10. Carry out a normal seeding, fertilizing and watering program. A light top dressing may be applied to just cover the seed and to provide adequate germination conditions. Hydro seeding is a good option.

10a. If using rolled turf or instant lawn, ensure filling material is finished just below the top of the SurePave® panels and roll the turf into the surface to ensure the root zone is protected by the panel cell structure.

11. Normal establishment time should be allowed for the grass before the surface is trafficked but, for critical/emergency access purposes it can be used immediately.



TRAFFIC TYPE	TYPICAL BASE COURSE THICKNESS
Pedestrian/Bicycles	50 - 100mm
Light Vehicles	75 - 150mm
Heavy Vehicles	150<

The base course design will need to be designed to the projected loadings, traffic volume and soil conditions and other contributing factors that correspond directly with the project that SurePave® is to be used in.

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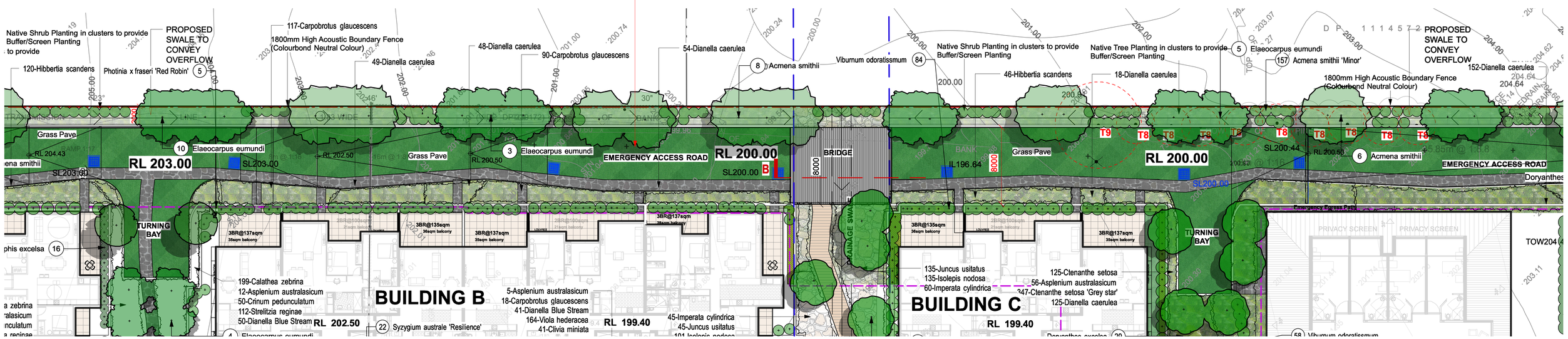
GRASS PAVE Product = Sure Pave by CIRTEX



1 Emergency Access Road
Scale: 1:200

ISSUE	DATE	COMMENT
E	4/3/19	LEC FOR APPROVAL

AMENDMENTS

creating places to live in and enjoy
LANDSCAPE ARCHITECTS

SITEDESIGN +STUDIOS

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Address	3 QUARRY RD, DURAL	Scale.	NTS
Drawing Title	GRASS PAVE (Sure Pave Permeable Paving)		
Client	Zhiva Living	Drawing No.	1173

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