CATHOLIC HEALTHCARE LEWISHAM DEVELOPMENT APPLICATION AUGUST 2019





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1.2 SITE BACKGROUND

2.1 ACCESS TO LANDSCAPE 2.2 PRINCIPLES

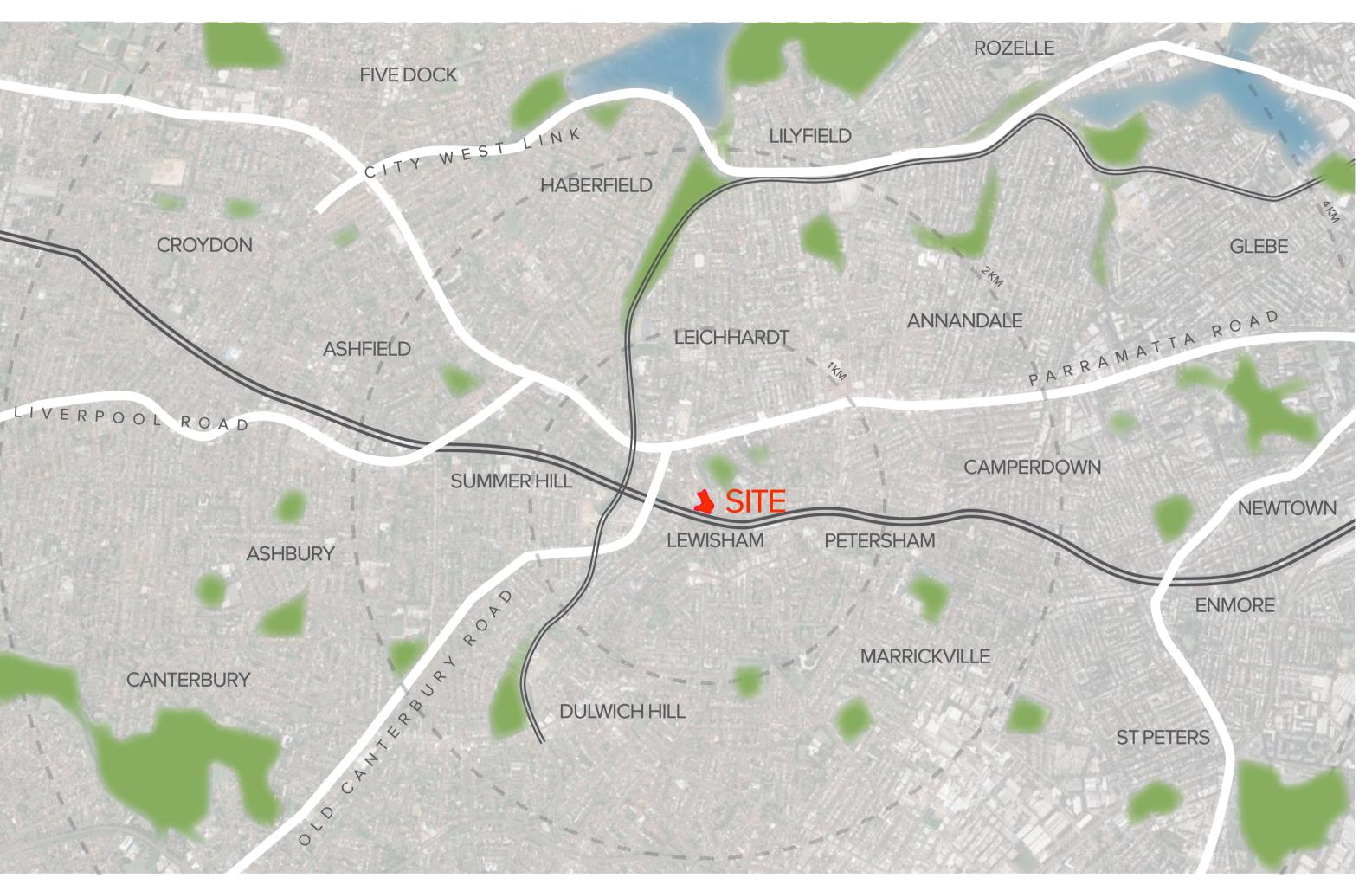
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LANDSCAPE ANALYSIS CONTEXT



regional context





local context

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LANDSCAPE ANALYSIS SITE BACKGROUND

The CHL site located at Lewisham originally was integrated as a as a larger complex with a surrounding Church precinct, presbytery and school buildings. The site was then converted to a Hospital. The existing Ann Walsh building on site was used as the outpatient building, the remaining existing buildings are located on the adjacent St Vincent de Paul site.

By 1980 the former Novitiate Building was adopted for use as the Lewisham Nursing Home. In 1992 the Lewisham Hostel was constructed at the southern end of the site, further expanding facilities and accommodation.



Catholic Healthcare Lewisham

aerial photographs

2009

2014







Petersham Park



ACT,

groups

Croydon

2017

2018

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1994 established by the Bishops of NSW and the

started through the initiative of six religious

1998 acquired Bodington, a residential aged care service from the Red Cross

2007 took its first steps outside NSW, working with the Sisters of Perpetual Adoration and the Archdiocese of Brisbane at residential aged care services in Brisbane and Ipswich

2012 a new service opened in Northbridge, Sydney

2014 a new retirement community was opened at

opened a brand new aged care service in Bathurst and are soon to open a new service on the existing McQuoin Park site in Wahroonga

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LANDSCAPE ANALYSIS SITE CONTEXT ANALYSIS





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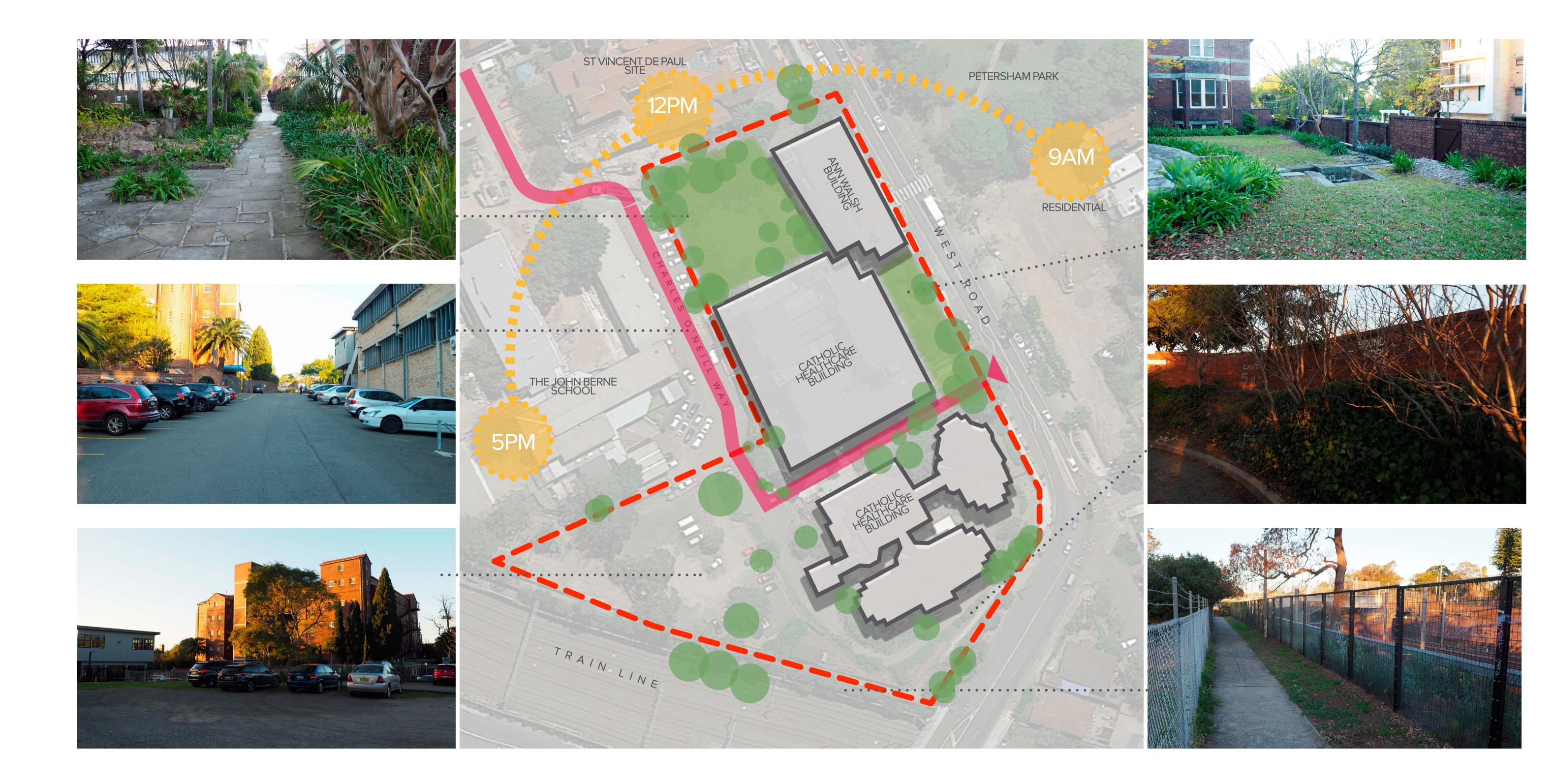


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LANDSCAPE ANALYSIS SITE ANALYSIS





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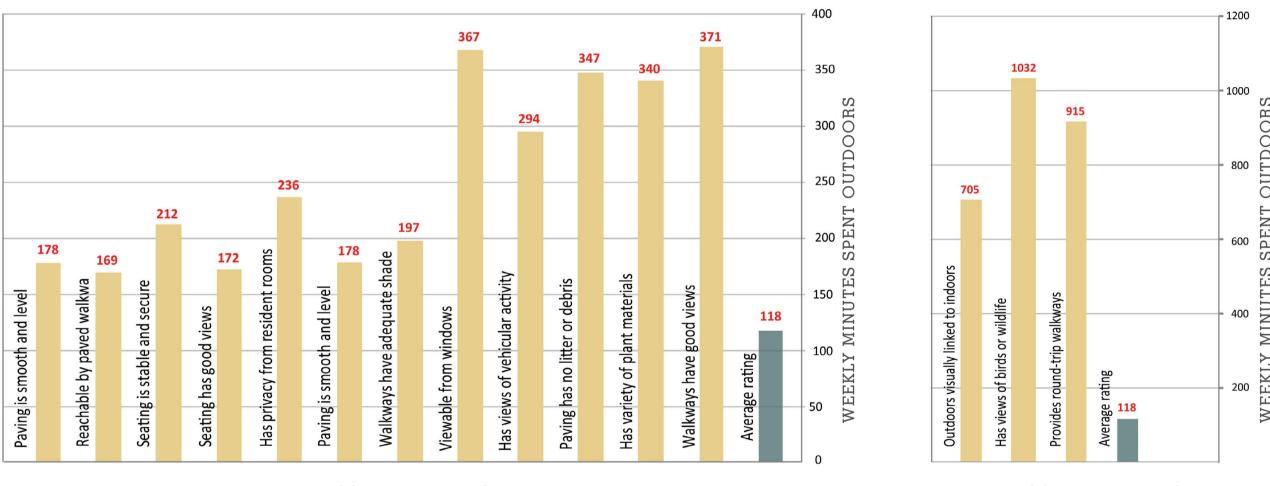
LANDSCAPE VISION ACCESS TO LANDSCAPE

Access to nature and the outdoors has long been considered both therapeutic and is known to have significant health benefits. Time outdoors can improve sleeping patterns, reduce soreness, improve mental health and even increase longevity.

LANDSCAPE DESIGN VS UTILISATION

The physical environment plays a role in promoting physical activity. However in spite of the aforementioned health benefits, outdoor spaces in retirement / care facilities are often reported as underutilised by residents - according to a study undertaken by Texas A&M University which assessed how landscape design influenced outdoor usage at assisted living facilities.*

The findings suggest that the following landscape features had a strong correlation with behavior, in turn increasing outdoor usage:



LANDSCAPE FEATURES

The features on the right were found to increase outdoor usage by up to 3.5 times while the features on the left had an even stronger impact on outdoor usage.

It is becoming increasingly important to try and find cost-effective ways to promote healthy lifestyles and maintain health among an aging populations. These findings reinforce the fact that landscapes which promote and encourage healthy behaviour are a relatively permanent and long term cost-efficient investment, in comparison to the likes of programmed activities that require ongoing costs and staff support as a continued service.

* Texas A&M University (2010). Access to Nature for Older Adults: Promoting Health Through Landscape Design. ASLA Professional Awards





LANDSCAPE FEATURES



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LANDSCAPE VISION PRINCIPLES

FACILITATE A HEALTHY LIFESTYLE

PROVIDE UNIQUE / DISTINCTIVE AMENITIES

CREATE A UNIQUE CHARACTER

DESIGN FOR SOCIAL INTERACTIONS

PROMOTE WALKING THROUGH MULTIPLE WALKWAY SYSTEMS

DEVELOP A STRONG SENSE OF PLACE

IMPLEMENT ENVIRONMENTAL INITIATIVES

ENSURE ACCESS + SAFETY

ENGAGE EXPERIENCE + MEMORY





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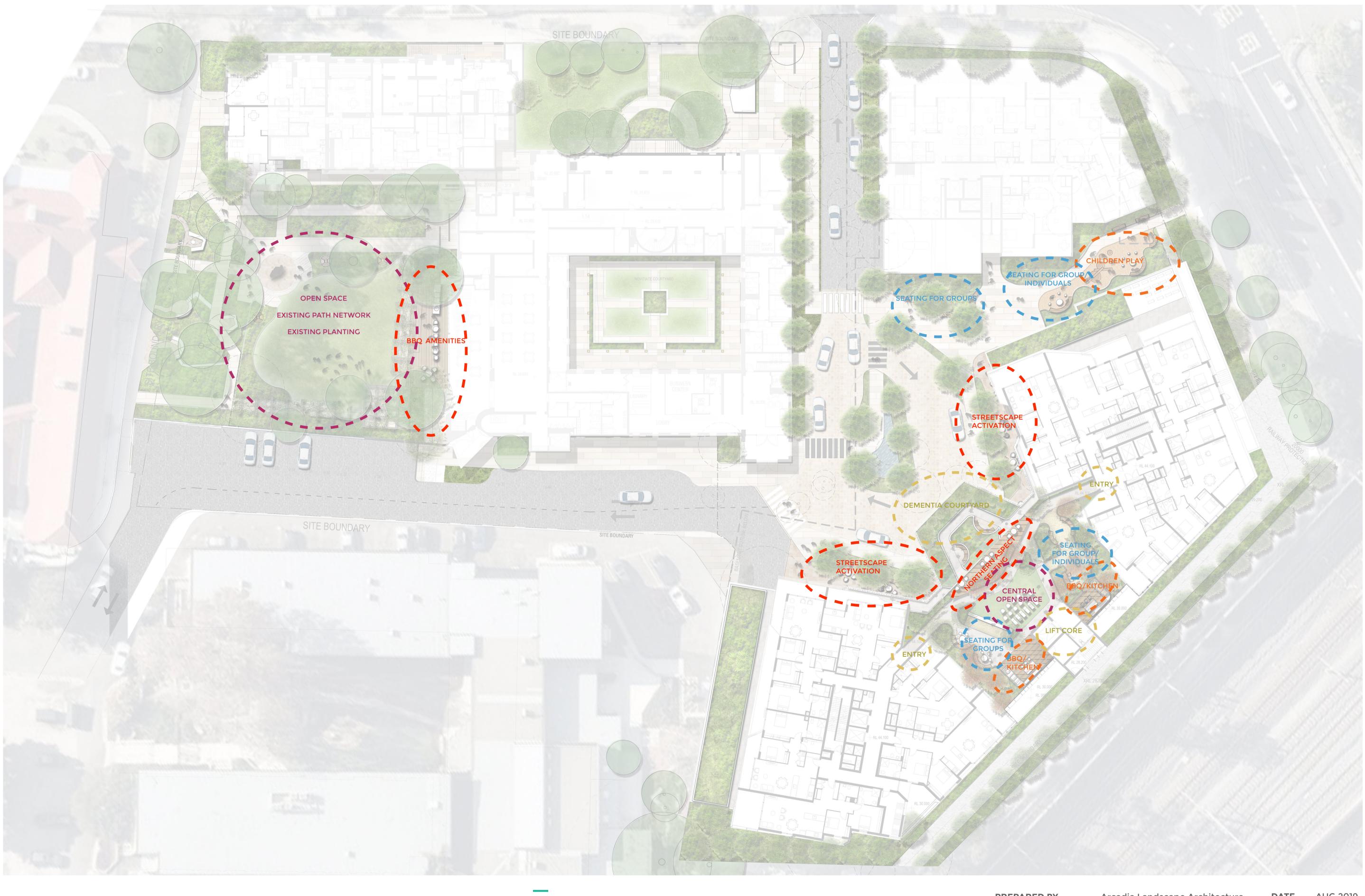
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LANDSCAPE DESIGN ANALYSIS DIAGRAM





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3.2

children's play area

- 2/garden nooks for small groups
- 203 / refurbished planting and hardworks
- to existing heritage garden
- 05/bbq kitchen facilities
- 06 / new arbor structure to formalise

07/ open turf space

08/ refurbished arbor structure

09/ seating for larger groups

I/ cycleway/access path along rail corrido

2/ re-interpreted grotto alcoves

3/ relocation of grotto

/ letterboxes and signage

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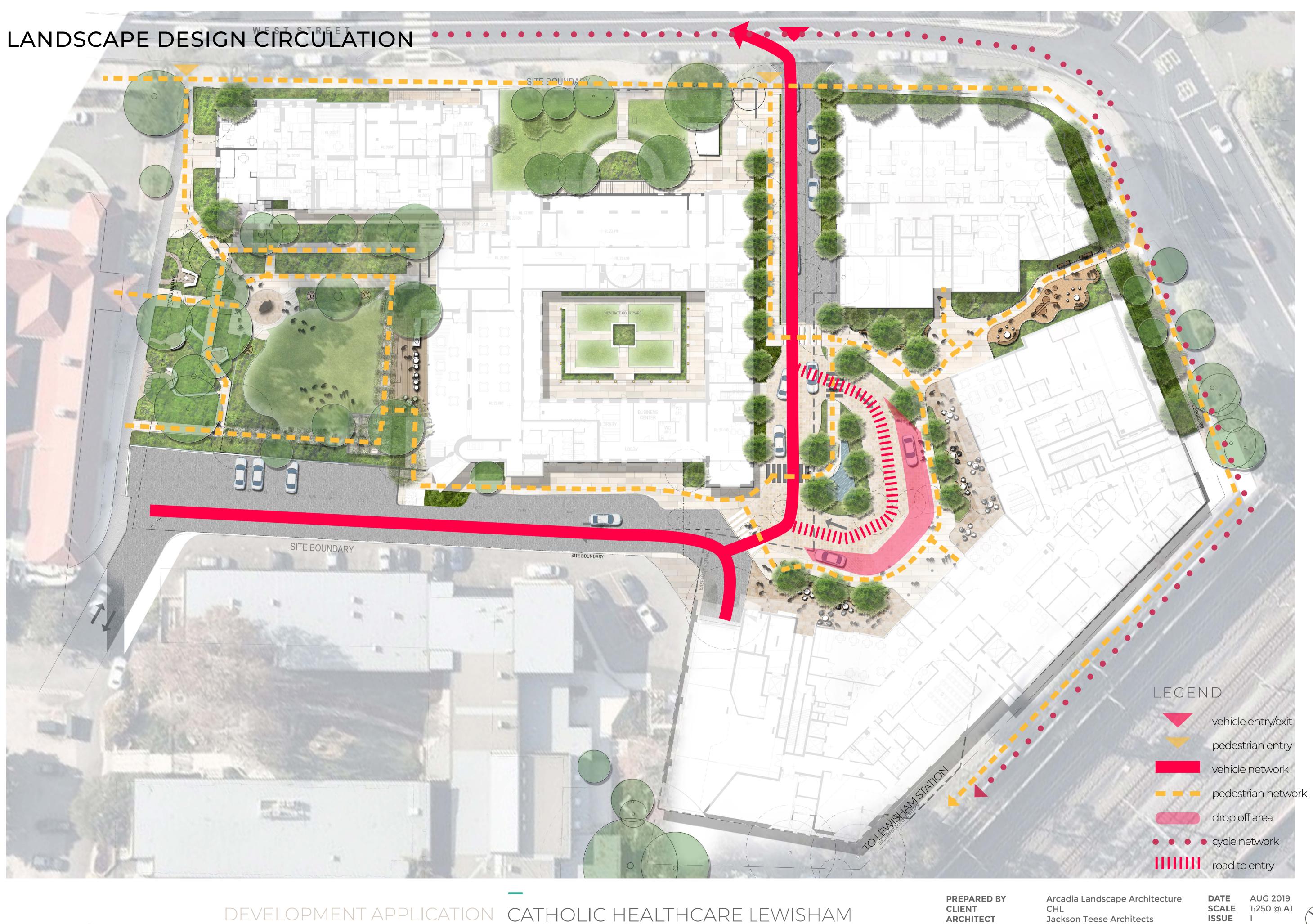
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LANDSCAPE DESIGN SOIL DEPTHS





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AREA CALCULATIONS

TOTAL SITE AREA - 12068m2

DEEP SOIL AREA - 2188m2 / 18.1%

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SOIL DEPTHS

DATE

SCALE

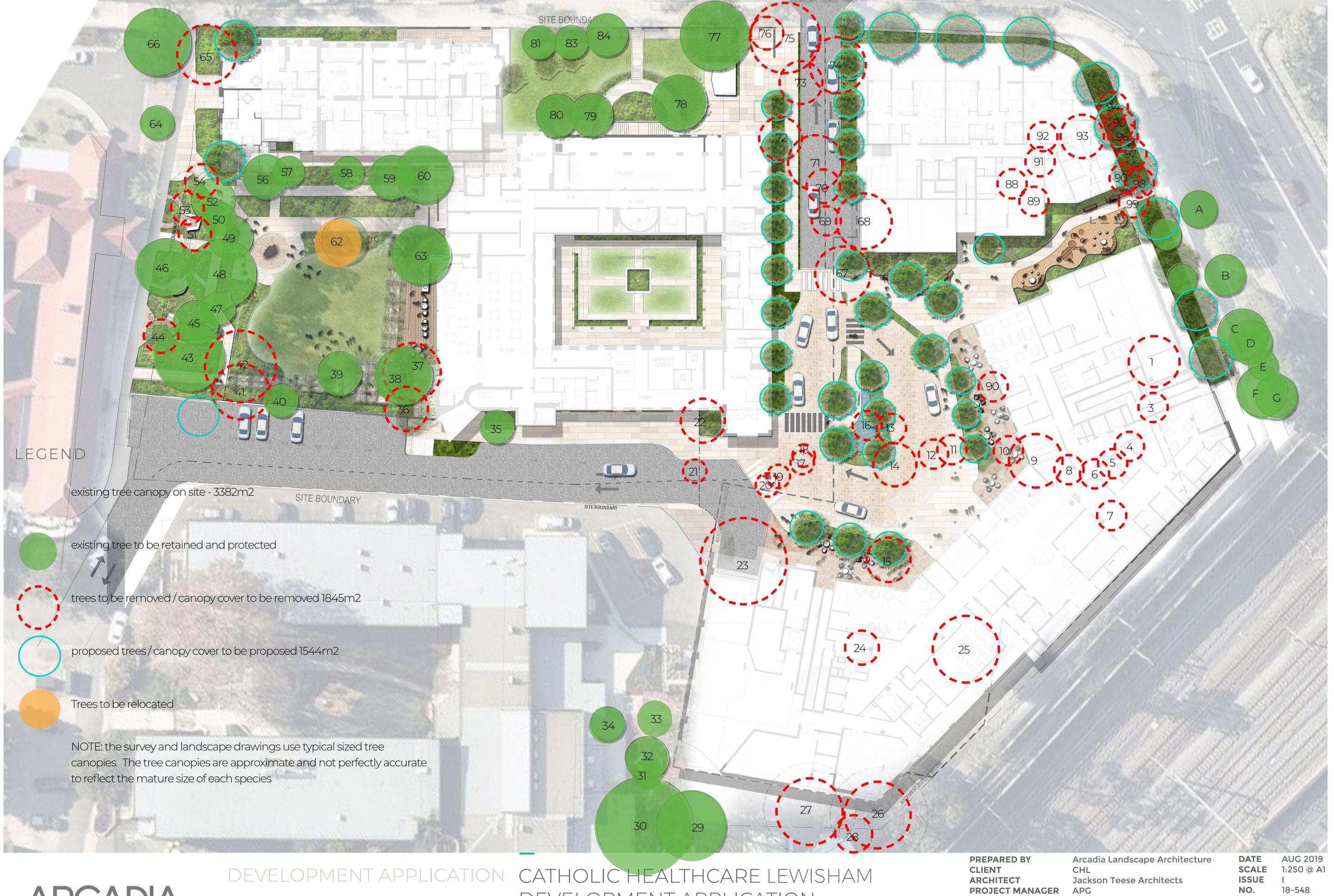
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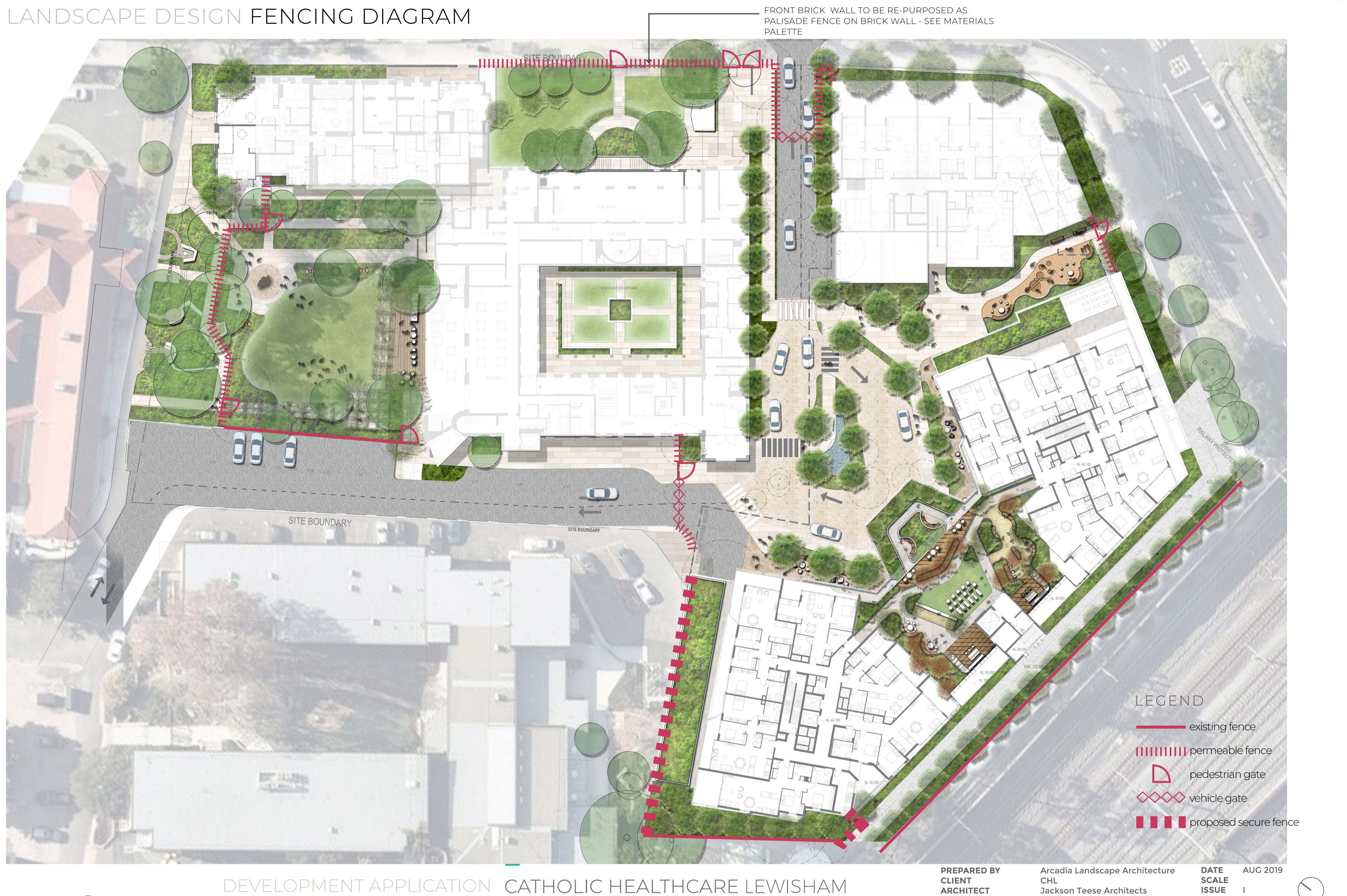
LANDSCAPE DESIGN VEGETATION MANAGEMENT PLAN





DEVELOPMENT APPLICATION

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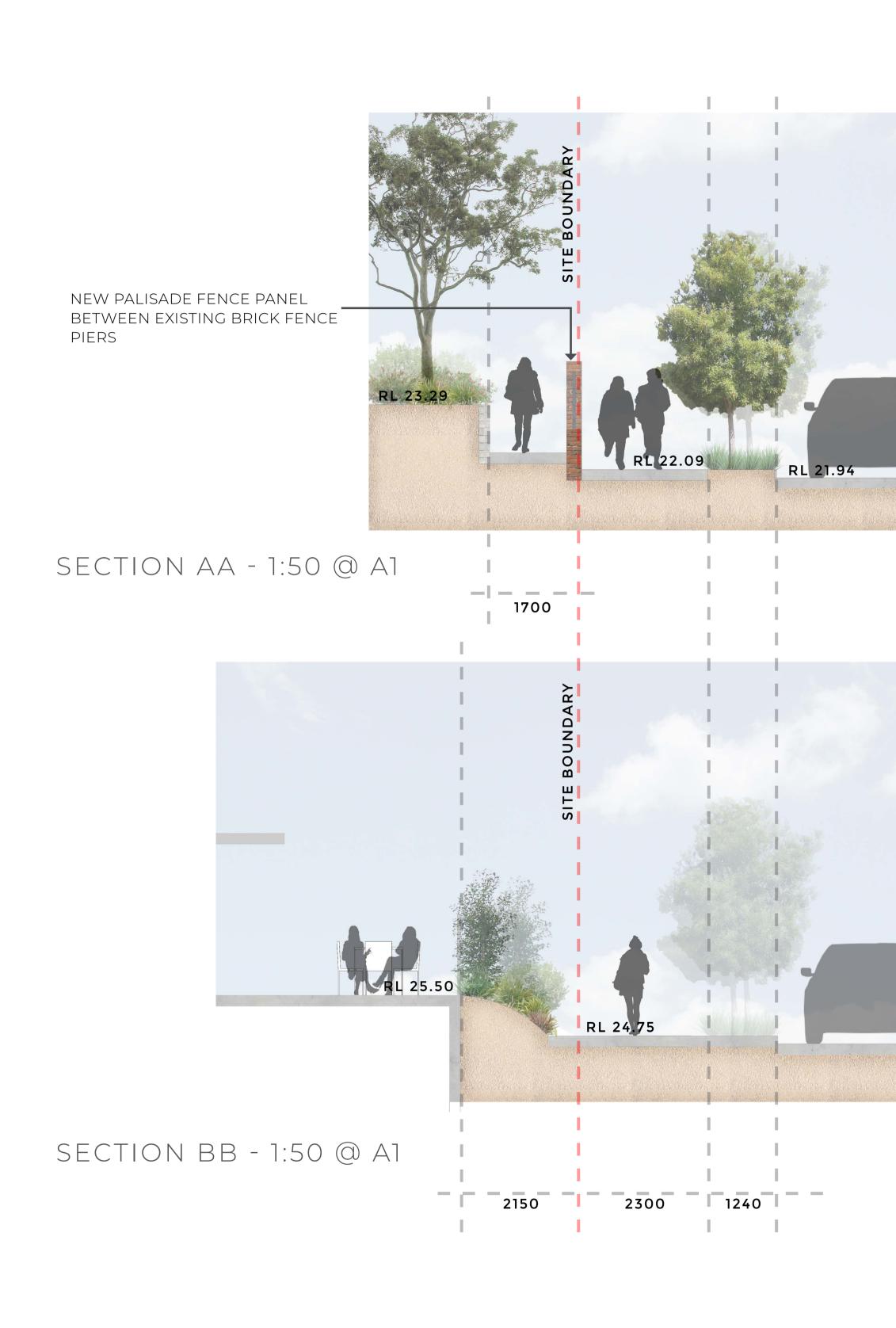
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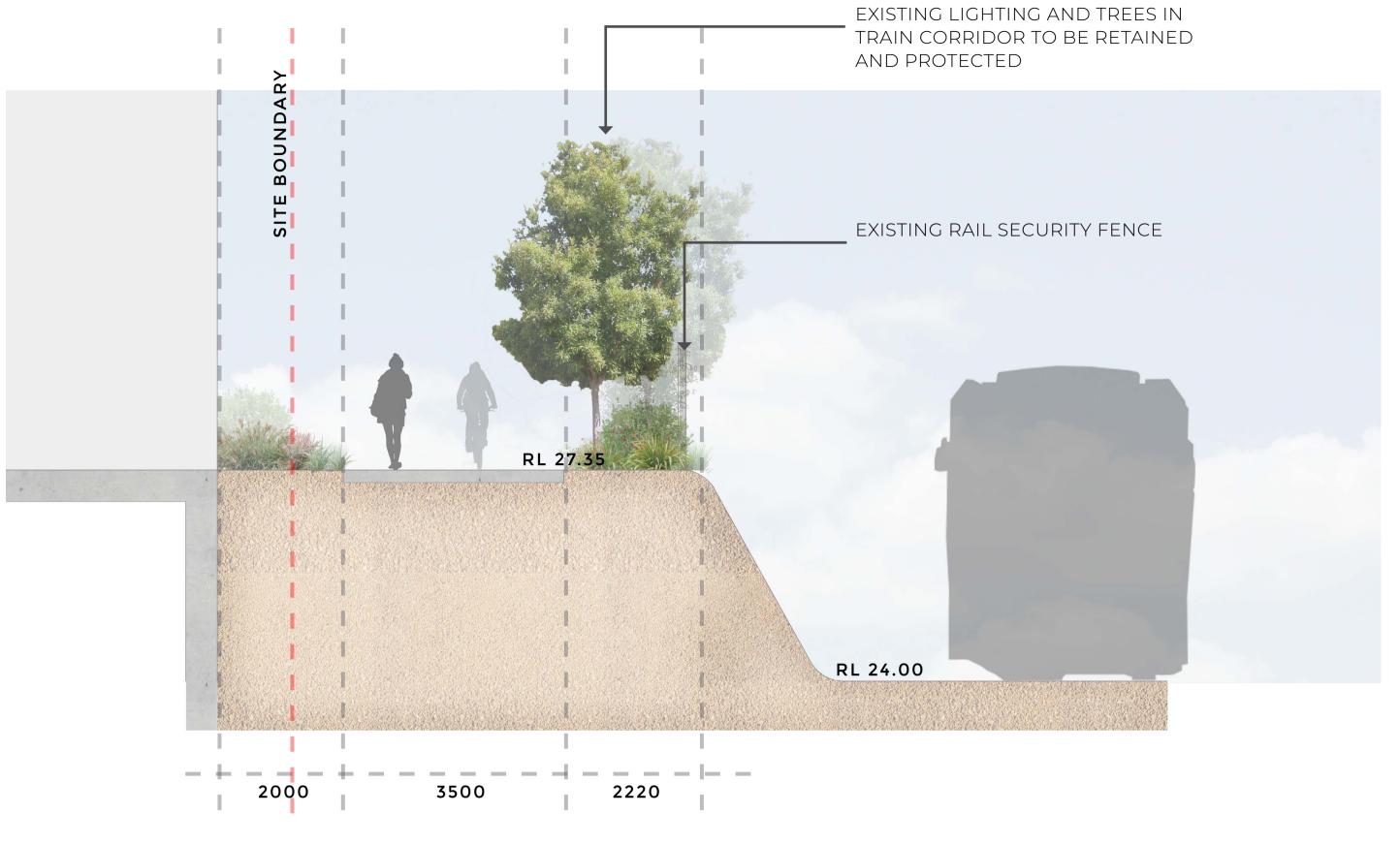
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LANDSCAPE DESIGN STREETSCAPE EDGE + CYCLEWAY UPGRADE







SECTION CC - 1:50 @ A1

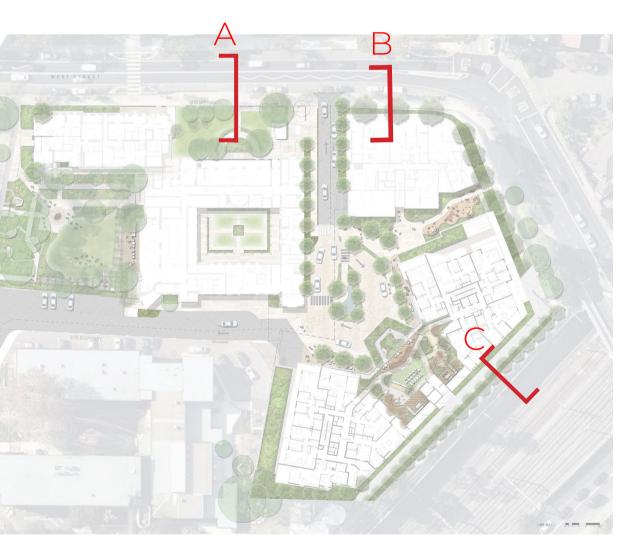
01 / children's play area

-)2/garden nooks for small groups
- 3/refurbished planting and hardworks
- o existing heritage garden
- 95/outdoor cafe seating
- 96 / new arbor structure to formalise



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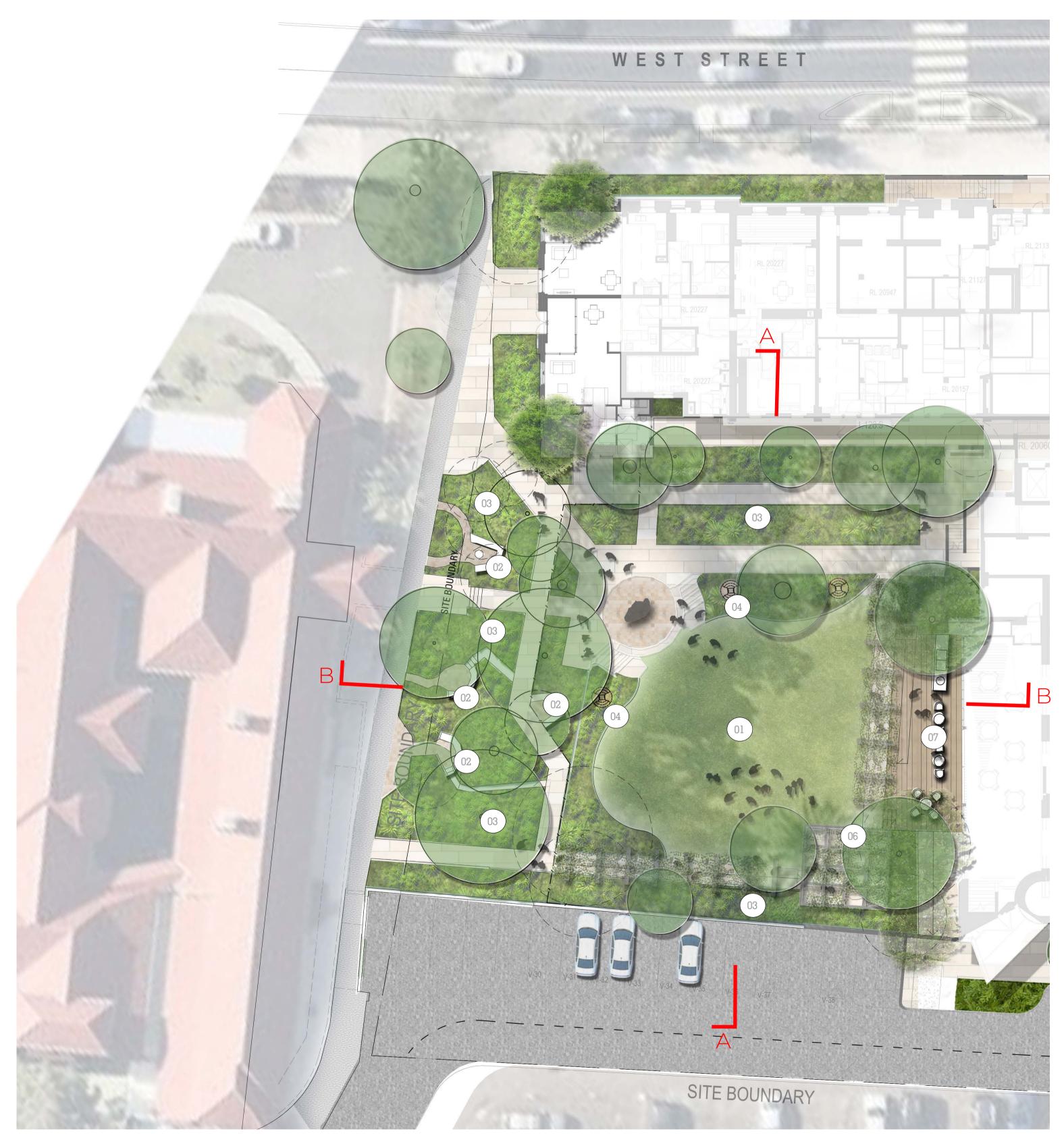


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LANDSCAPE DESIGN DETAIL PLAN - HERITAGE GARDEN



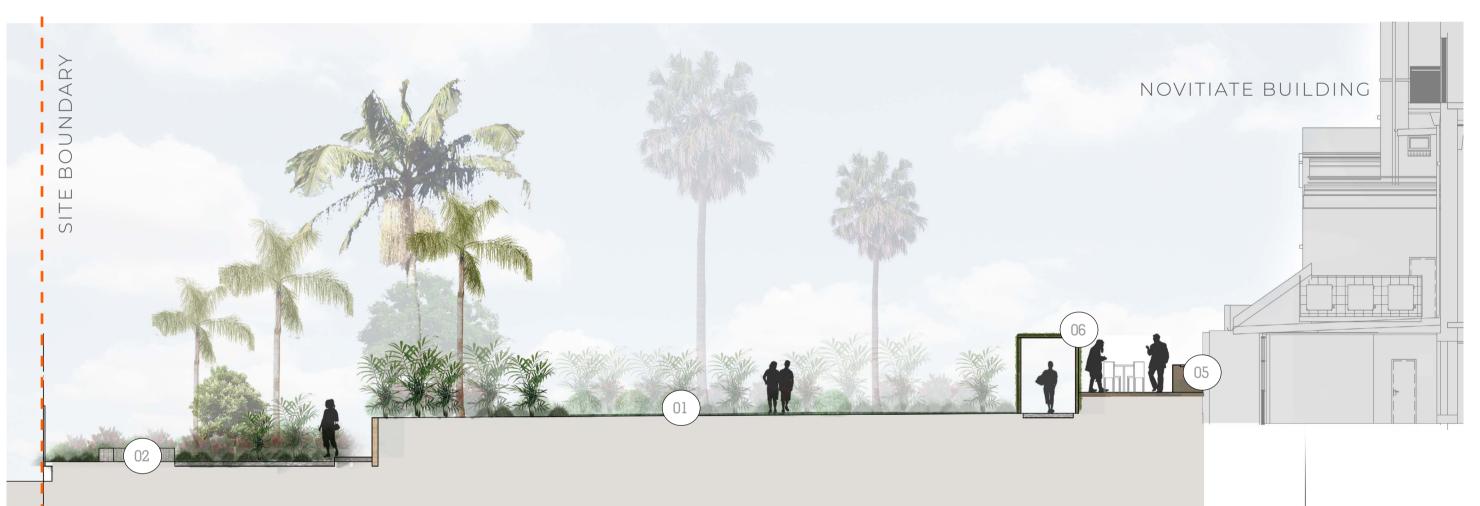
DETAIL PLAN - 1:150 @ A1



DEVELOPMENT APPLICATION CATHOLIC HEALTHCARE LEWISHAM DEVELOPMENT APPLICATION



SECTION AA - 1:150 @ A1



SECTION BB - 1:150 @ A1

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LEGEND

01/green open space

02/grottoalcove

D3 / refurbished planting and materials to existing

neritage garden

05/outdoor kitchen area

06 / refurbished arbor structure

07/ outdoor kitchen and bbq amenities

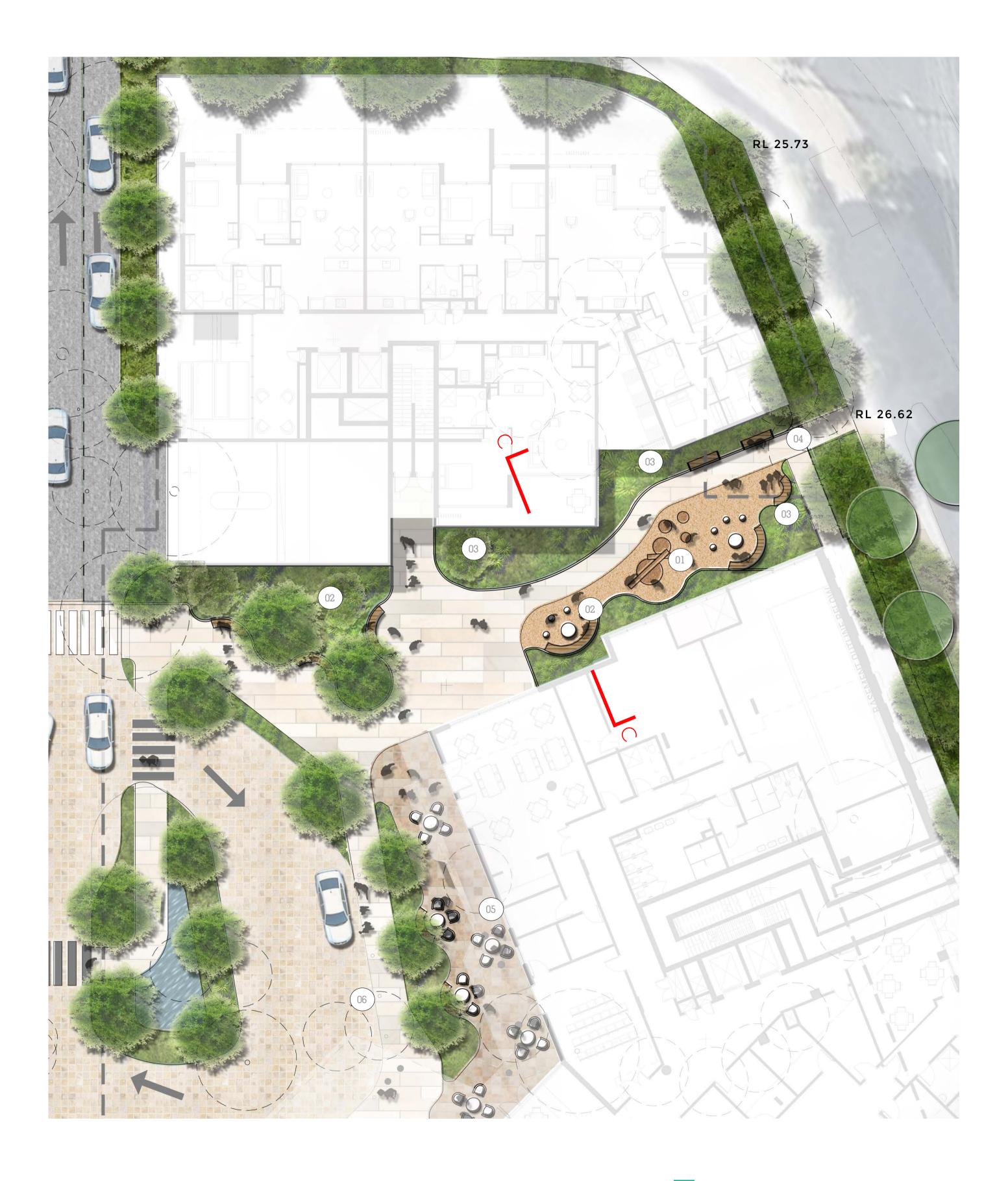
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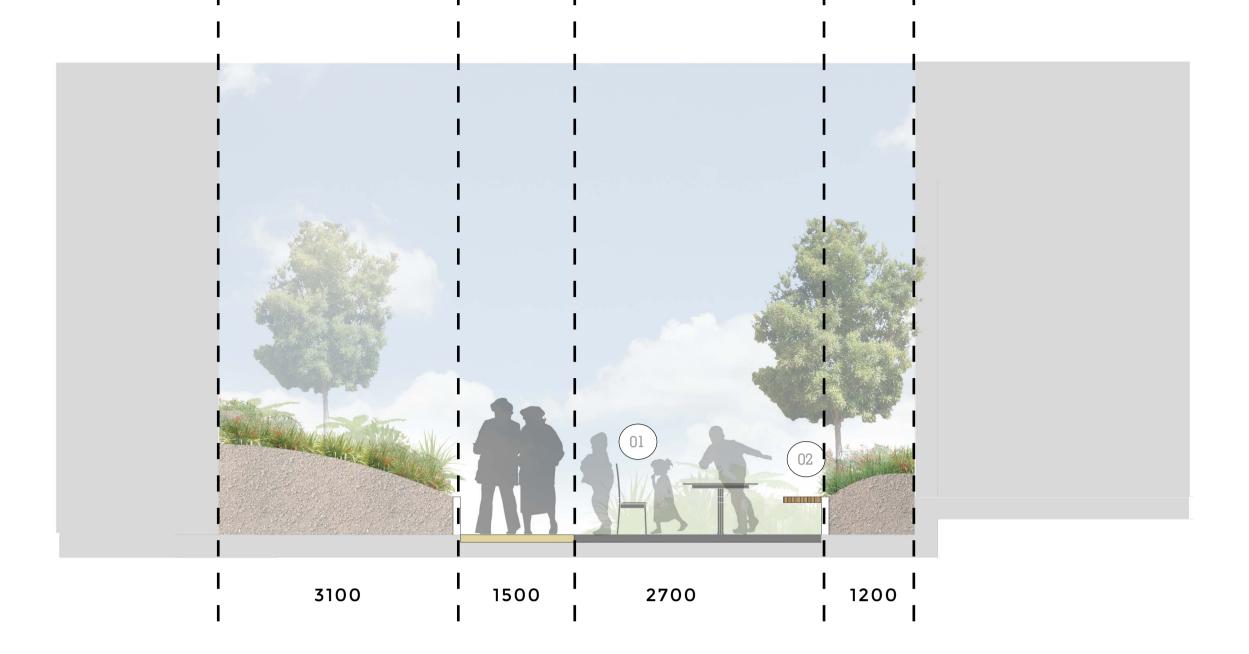




LANDSCAPE DESIGN DETAIL PLAN - LANEWAY







SECTION CC - 1:75 @ A1

LEGEND



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DEVELOPMENT APPLICATION CATHOLIC HEALTHCARE LEWISHAM DEVELOPMENT APPLICATION

- 01 / children's play area
-)2/garden nooks for small groups
-)3/shade tolerant planting
- 4/ gate access to West St
-)5 / outdoor cafe seating
- % / drop off zone

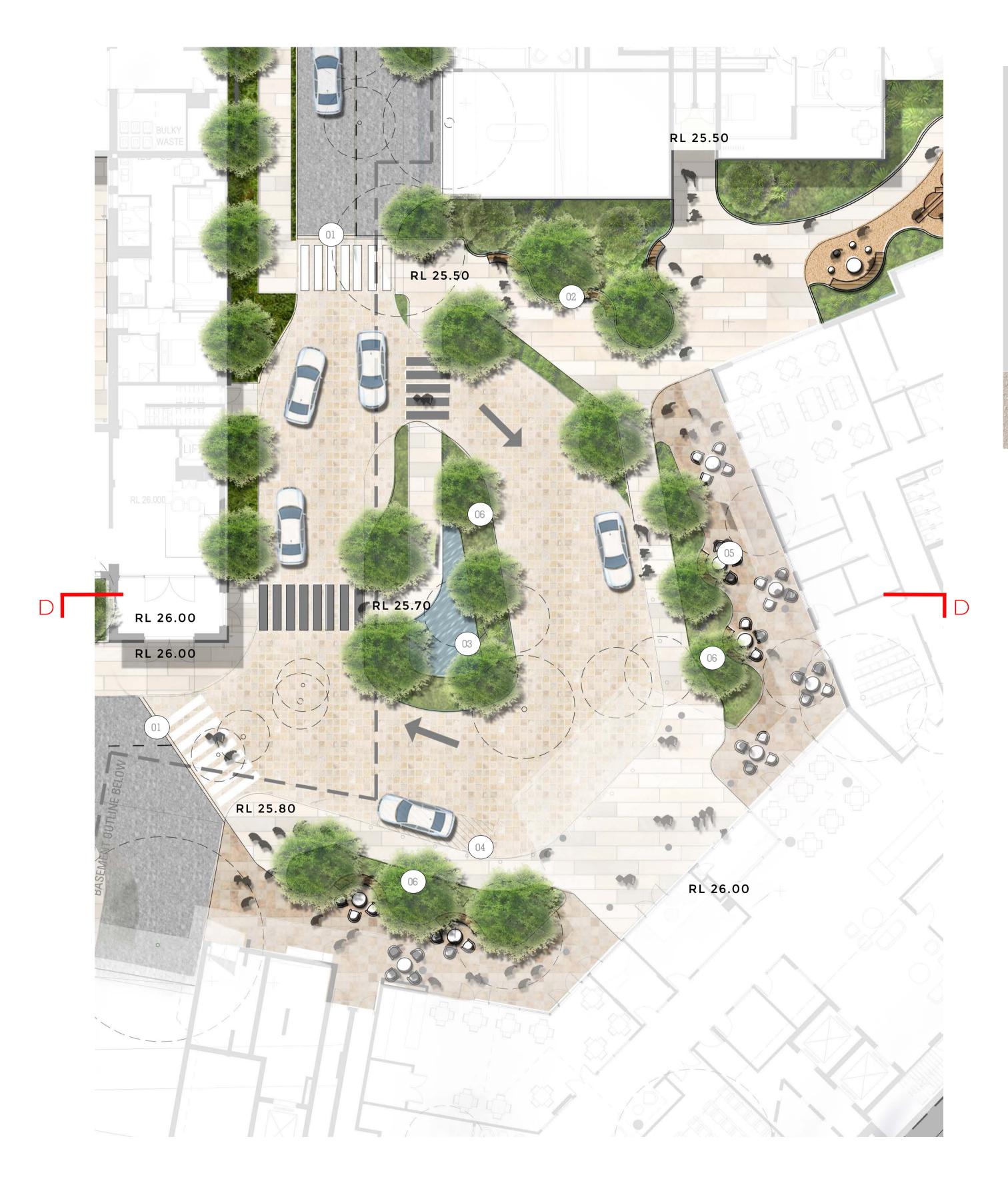
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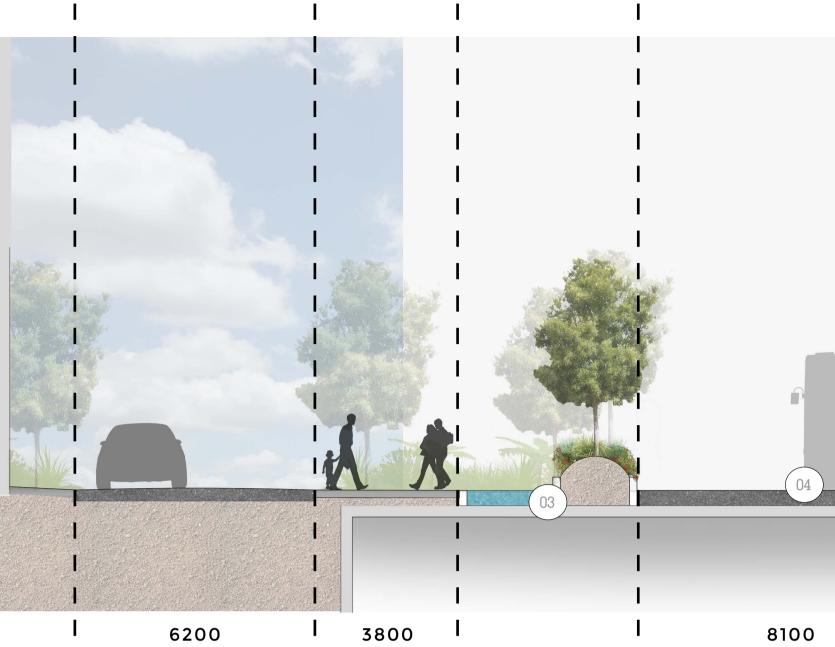
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LANDSCAPE DESIGN DETAIL PLAN - FORECOURT







SECTION DD - 1:100 @ A1

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3.10



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LEGEND

01 / paving threshold

2/garden nooks for small groups

95 / outdoor cafe seating

)6/entry feature planting

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LANDSCAPE DESIGN ROOFTOP DESIGN





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1800

SECTION FF - 1:50 @ A1



SECTION EE - 1:50 @ A1



LEGEND

- 01/ bbq and kitchen amenity
- 3/ screen/projector attached to building
- 4/ green central open space
- 5/ bocce court
- 6/ garden seating nooks
- 7/ work bench
-)8/ herb garden
- 9/ sun exposed deck
- 0/throwscreen

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LANDSCAPE DESIGN ROOFTOP DIAGRAMS





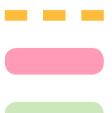
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LEGEND



🗕 🗕 🛑 pedestrian network

amenities

vegetation area

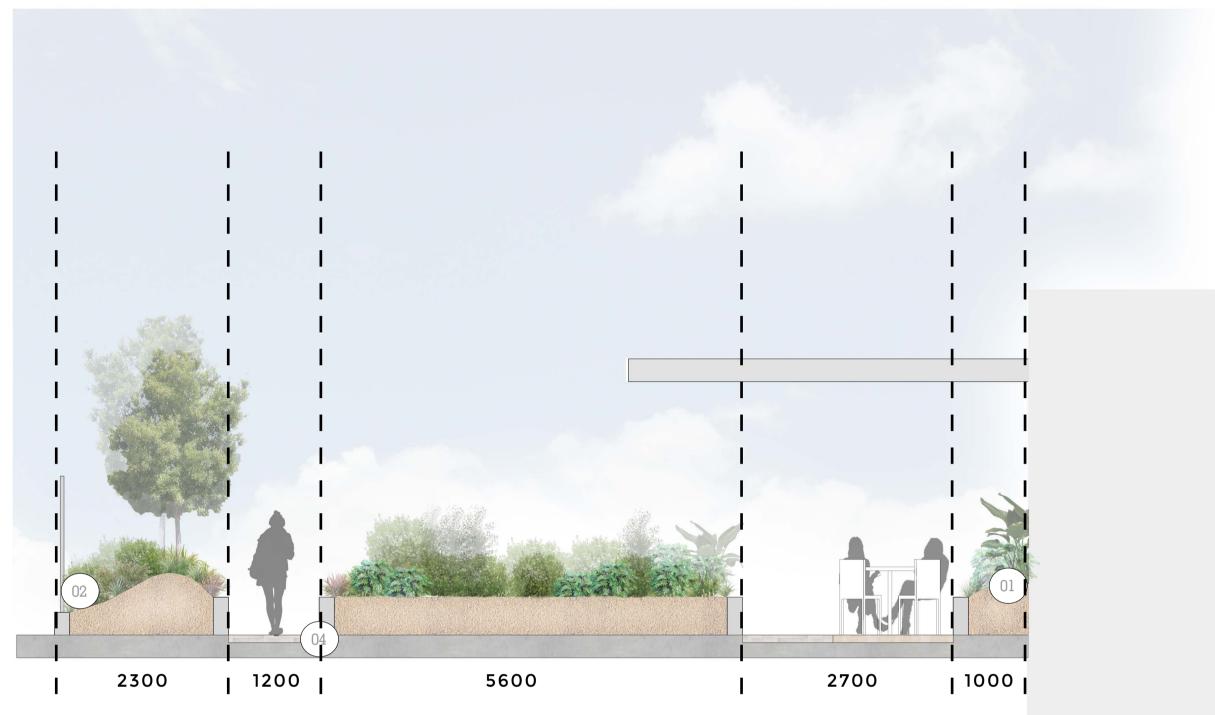
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LANDSCAPE DESIGN LEVEL ONE DEMENTIA COURTYARD







SECTION GG - 1:50 @ A1

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LEGEND

01/ planting edge

2/1800mm high balustrade

)3/ garden nook

5/ void

06/ deep soil tree planting

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LANDSCAPE DESIGN MATERIALS PALETTE

PAVING







FURNITURE AND FENCES







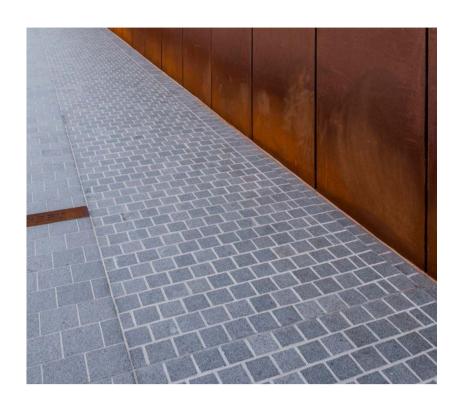
WALLS AND STRUCTURES

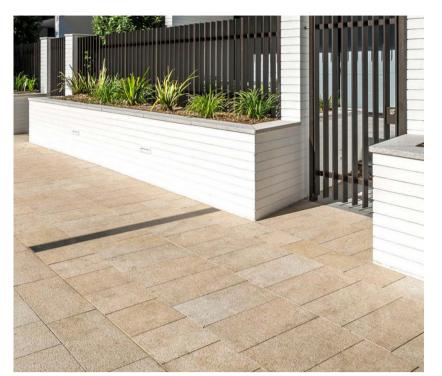
























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LANDSCAPE DESIGN PLANTING PALETTE

TREES AND FERNS



Banksia serrata



Cyathea australis



Acacia longifolia

SHRUBS AND ACCENTS



Grevillea buxifolia



Alpinia caerulea



Correa reflexa

GROUNDCOVERS AND GRASSES



Dianella caerulea



Dichondra repens



Lomandra longifolia 'Tankia'





Melaleuca linariifolia



Tristaniopsis laurina 'Luscious'







Pimelea linifolia



Syzygium 'Cascade'



Poa affinis



Myoporum parvifolium

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Acmena smithii

Westringia fruticosa

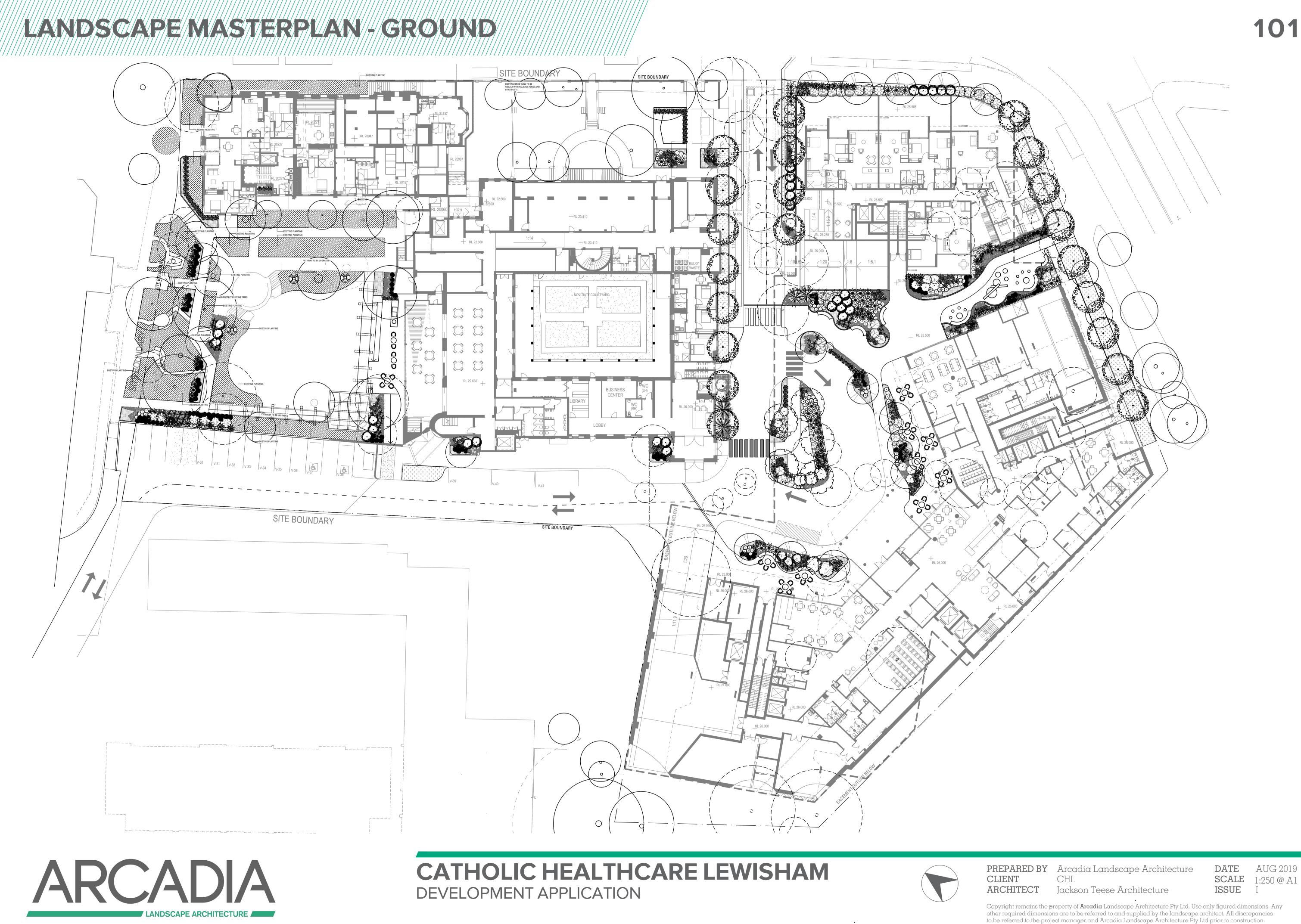


Viola hederacea

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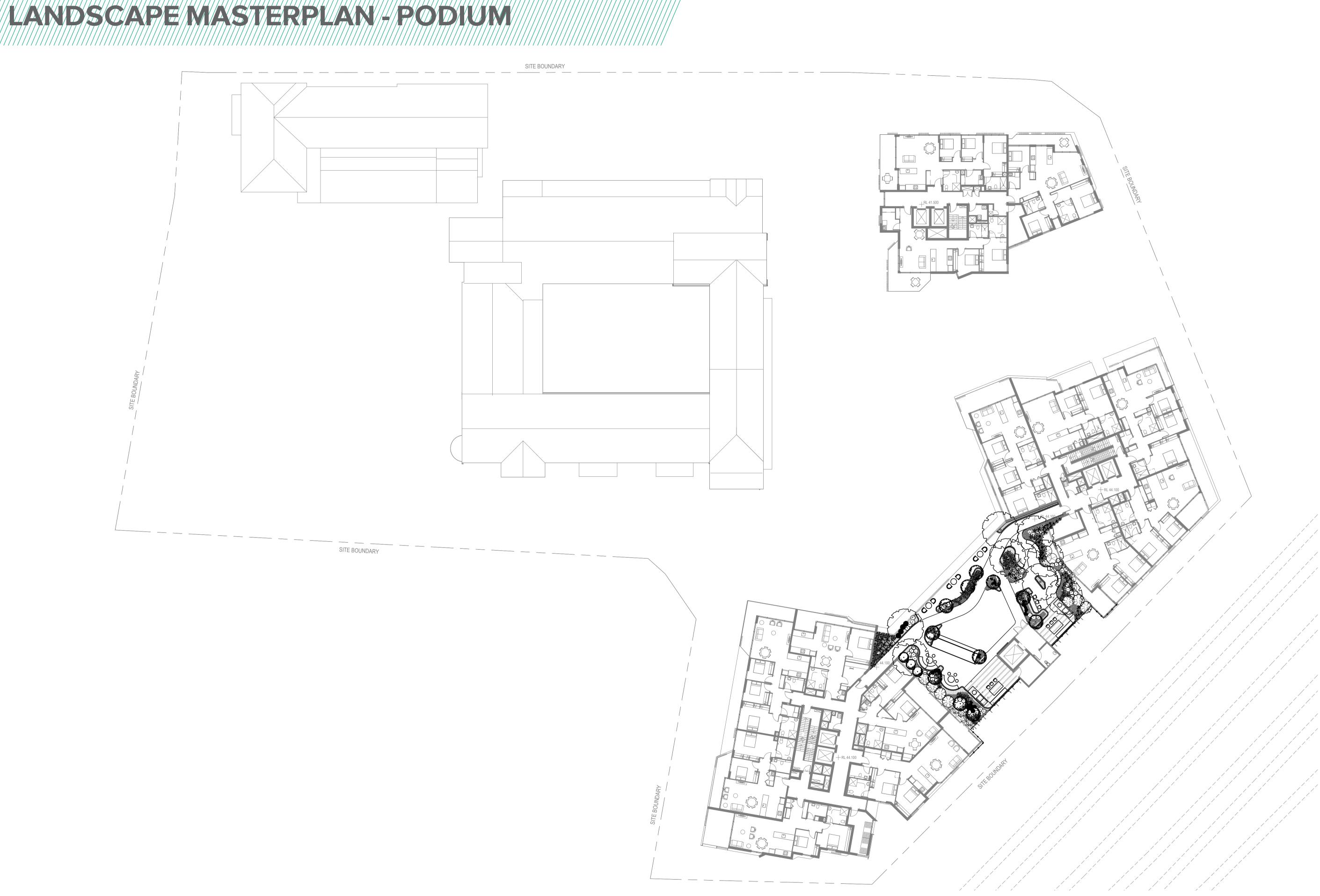


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PLANTINGSCHEDULE

CHL LEWISHAM - PLANT SCHEDULE

CODE	BOTANIC NAME	COMMON NAME	MATURE SIZE (hxw)(m)	PROPOSED POT SIZE	QUAN
	TREES & PALMS				
Bs	Banksia serrata	Old Man Banksia	8 x 6	75L	1
Er	Elaeocarpus reticulatus	Blueberry Ash	8 x 6	200L	2
MI	Melaleuca lineariifolia	Snow in Summer	8 x 5	100L	2
Pc	Pyrus calleryana 'Capital'	Callery Pear	9 x 3	200L	- 1
TI	Tristaniopsis laurina 'Luscious'	Water Gum	10 x 5	200L	1
	SHRUBS & ACCENTS				
Aco	Alpinia coerulea	Native Ginger	1.5 x 1.5	25L	4
Af	Acacia falcata	Sickle-leaved wattle	4 x 2.5	25L	1
Cr	Correa reflexa	Common Correa	0.8 x 0.6	25L	28
Dv	Dodonaea viscosa	Hop Bush	2 x 1.5	200mm	3
Gb	Grevillea buxifolia	Grey Spider-Flower	1.5 x 1.5	25L	1
Pf	Pultenaea flexilis	Graceful Bush-pea	4 x 3	25L	1
ΡI	Pimelea linifolia	Rice Flower	0.8 x 0.5	200mm	1
Pv	Pultenaea villosa	Eggs and Bacon	1.5 x 2	200mm	2
Sc	Syzygium Cascade	Lilly Pilly	4 x 1.5	25L	Z
Wf	Westringia fruticose	Coastal Rosemary	1.5 x 1.5	25L	3
	FERNS & CYCADS				
Aa	Asplenium australasicum	Birds Nest Fern	1.5 x 1.5	25L	1:
Ae	Aspidistra elatior	Cast Iron Plant	1 x 1	200mm	2
Ca	Cyathea australis	Rough Tree Fern	5 x 2	100L	
Da	Diplazium australe	Austral Lady-Fern	1 x 1.5	25L	6
	GRASSES & GROUNDCOVERS				
Aus	Austrostipa ramosissima	Spear Head Grass	1 x 1	150mm	1(
Dc	Dianella caerulea	Paroo Lily	0.6 x 0.6	150mm	1
DIj	Dianella caerulea 'Little Jess'	Paroo Lily	0.6 x 0.6	150mm	2
Dt	Dianella tasmanica	Tasred	0.6 x 0.65	150mm	1
Dr	Dichondra repens	Kidney Weed	0.2 x spreading	150mm	8
Fg	Fescue glauca	Blue Fescue	0.3 x 0.2	150mm	1:
Hd	Hibbertia diffusa	Guinea Flower	0.2 x spreading	150mm	1
Lt	Lomandra longifolia' Tankia'	Tanika	0.8 x 0.8	150mm	1
Мур	Myoporum parvifolium	Creeping Boobialla	0.25 x 1	150mm	3
Та	Themeda australis	Kangaroo Grass	1.5 x 1.5	150mm	9
Vh	Viola hederacea	Native Violet	0.2 × 0.5	150mm	8
	RAINGARDEN PLANTING				
Bsp	Hair-pin Banksia	Birthday Candles	3 x 2	25L	4
Сар	Carex appressa	Tall Sedge	0.6 x 0.6	150mm	3
Cci	Callistemon citrinus	Crimson Bottlebrush	3 x 2	25L	3
Ju	Juncus usitatus	Common Rush	0.8 x 0.8	150mm	7
Llo	Lomandra longifolia	Spiny Headed Mat Rush	1 x 1	150mm	9

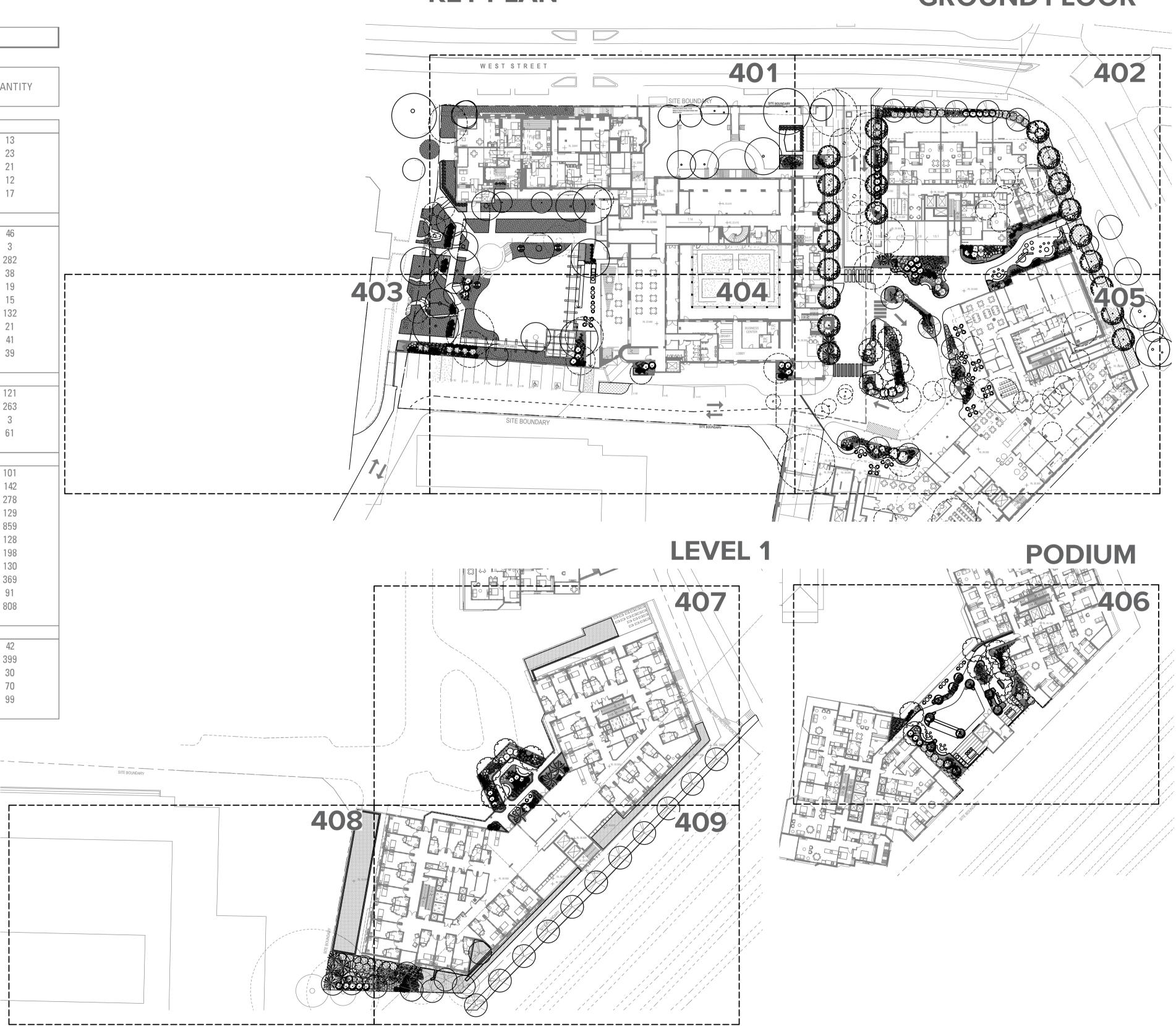
Note:

The survey and landscape use typical sized tree canopies. The tree canopies are approximate and not perfectly accurate to reflect the mature size of each species









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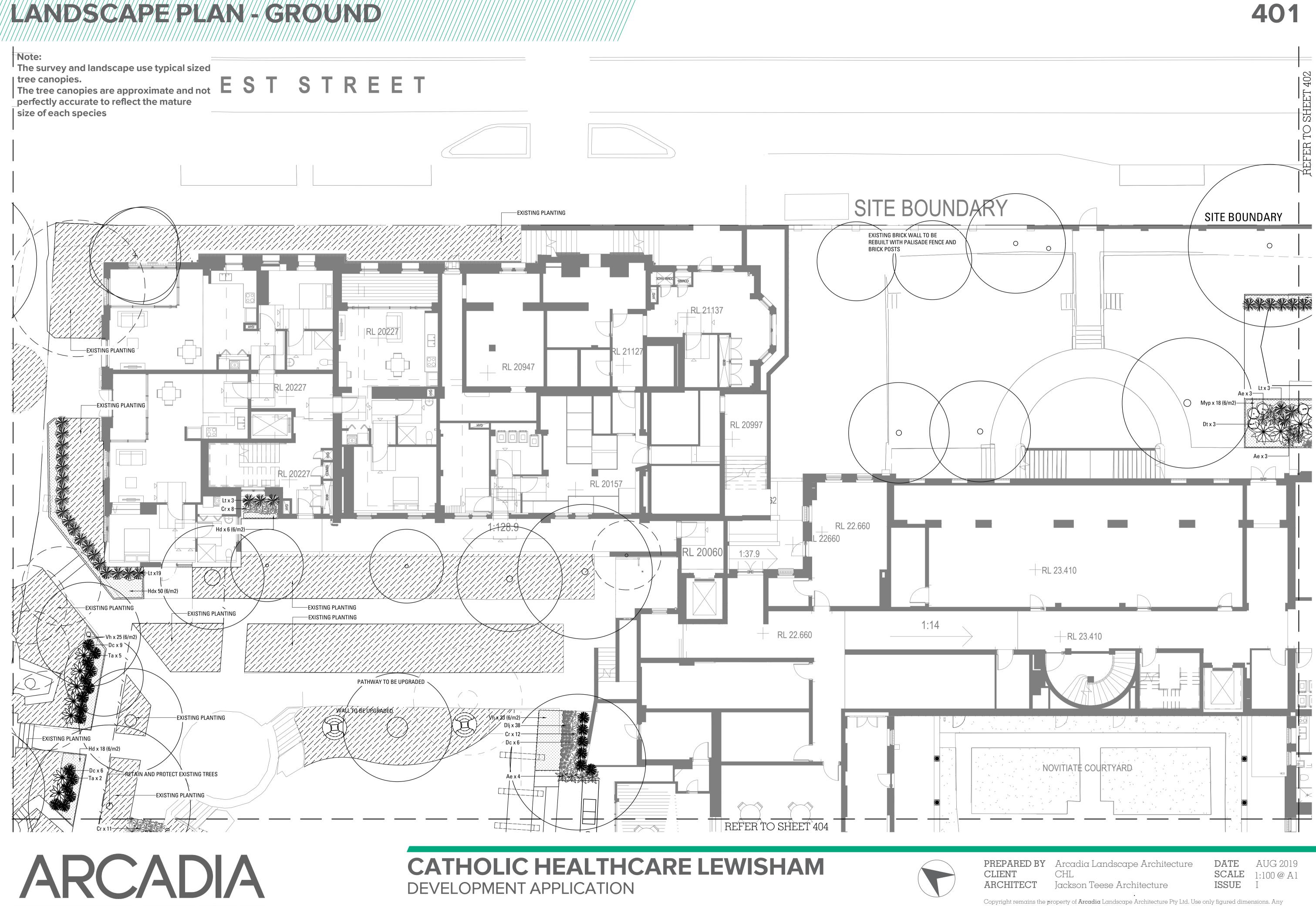


GROUND FLOOR

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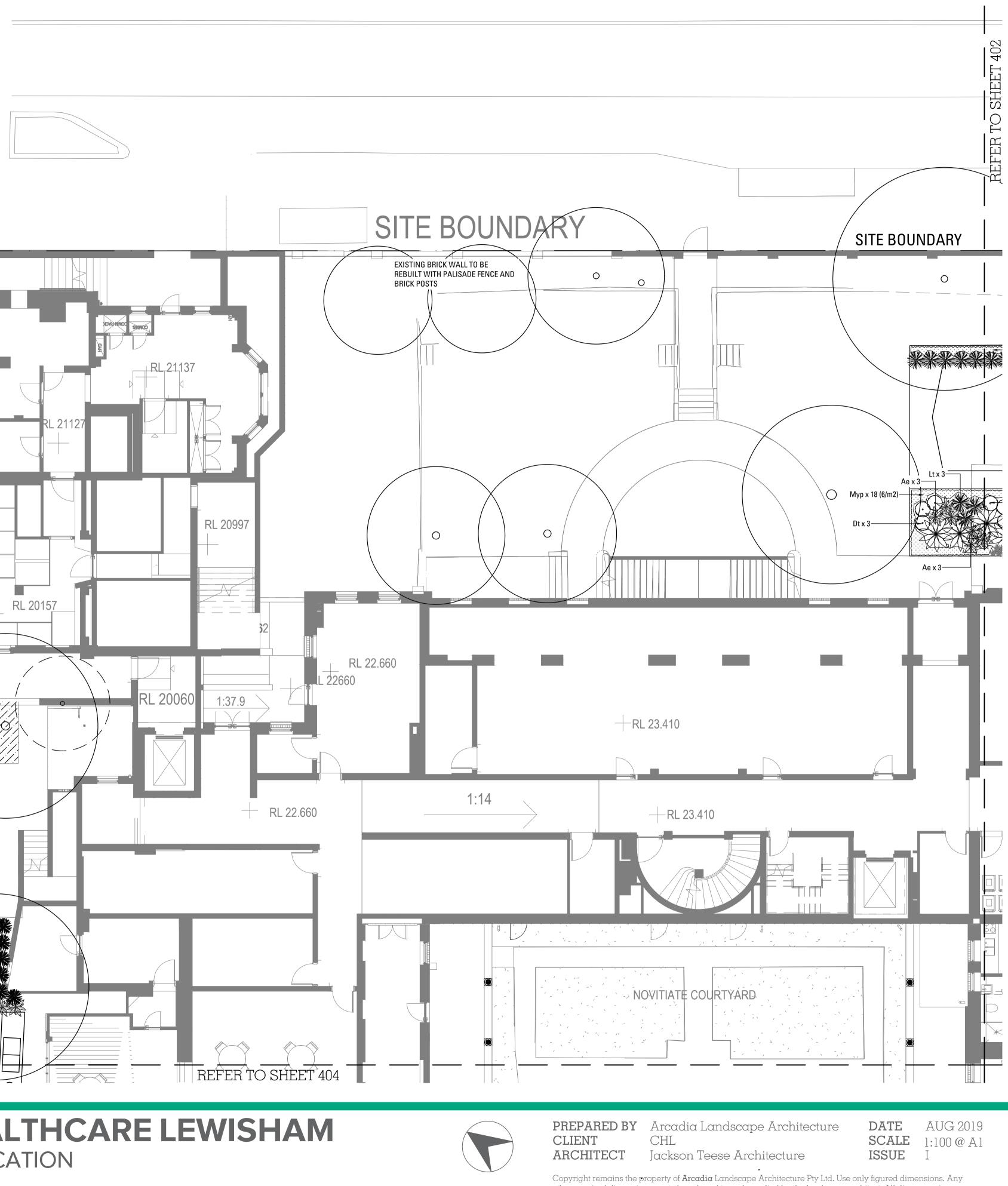
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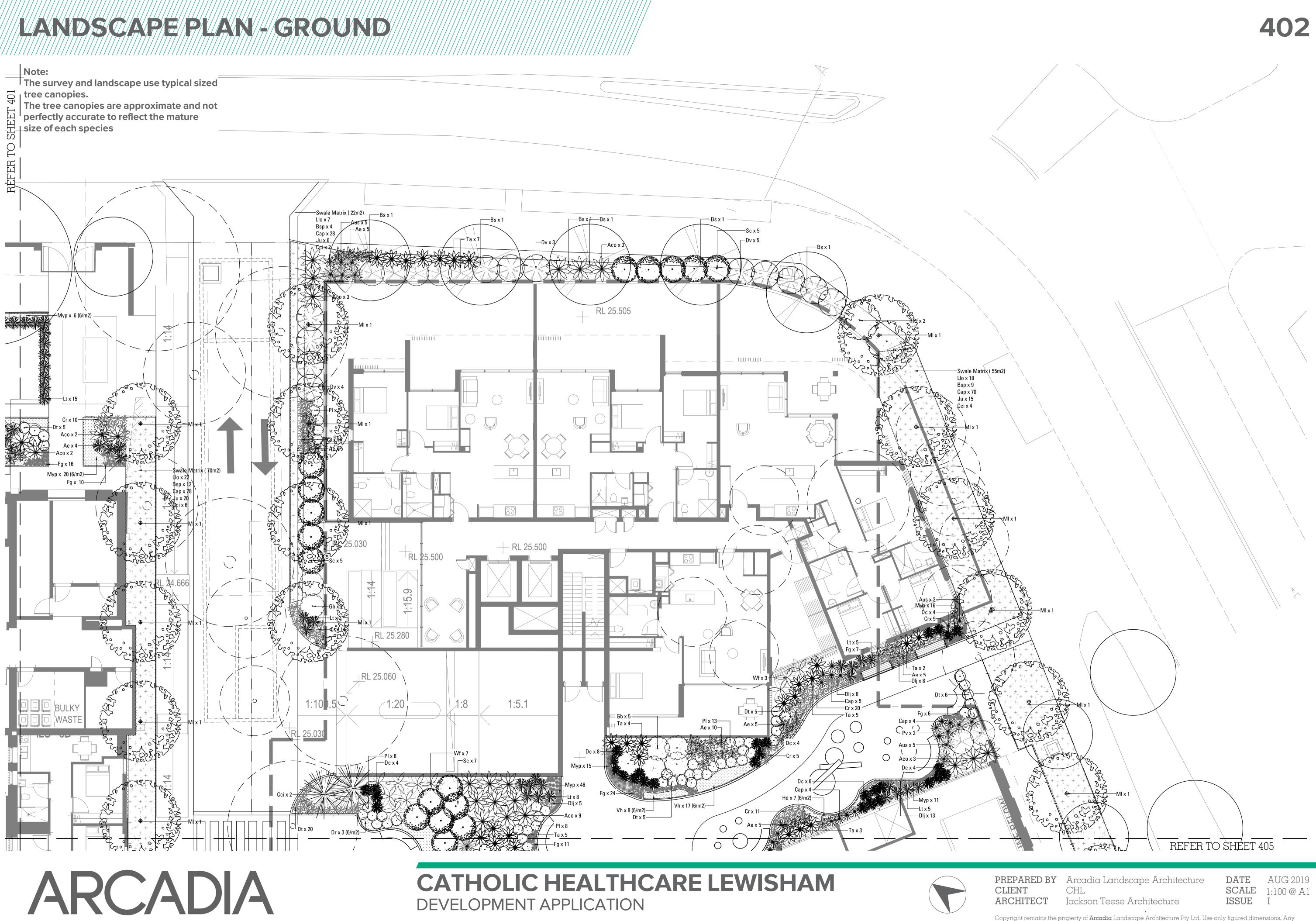


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LANDSCAPE ARCHITECTURE

LANDSCAPE PLAN-GROUND

Note:

size of each species

The survey and landscape use typical sized tree canopies. The tree canopies are approximate and not perfectly accurate to reflect the mature









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CATHOLIC HEALTHCARE LEWISHAM DEVELOPMENT APPLICATION

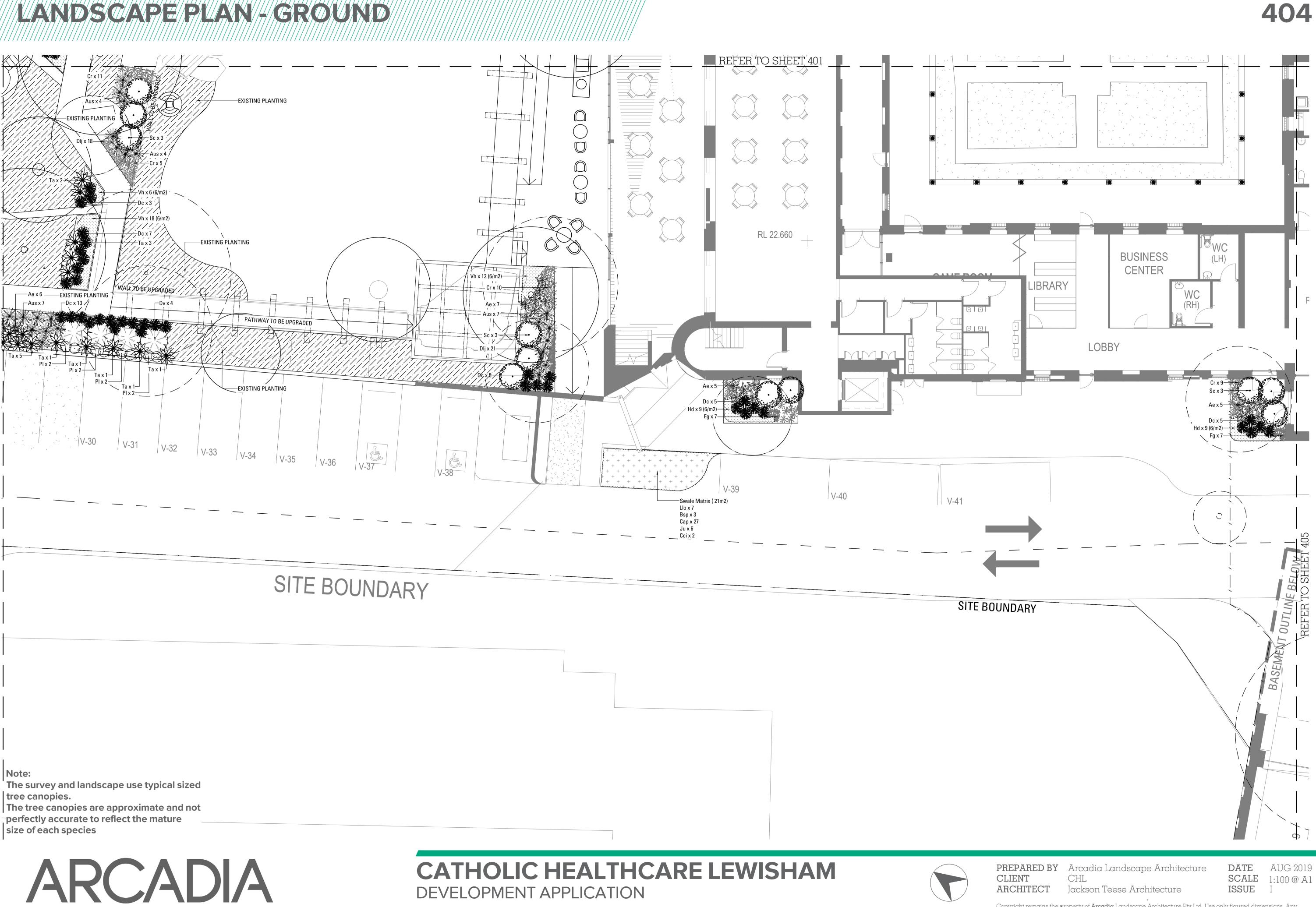




PREPARED BYArcadia Landscape ArchitectureCLIENTCHL **ARCHITECT** Jackson Teese Architecture

DATE AUG 2019 SCALE 1:100@A1 ISSUE I

LANDSCAPE ARCHITECTURE







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ARCHITECT



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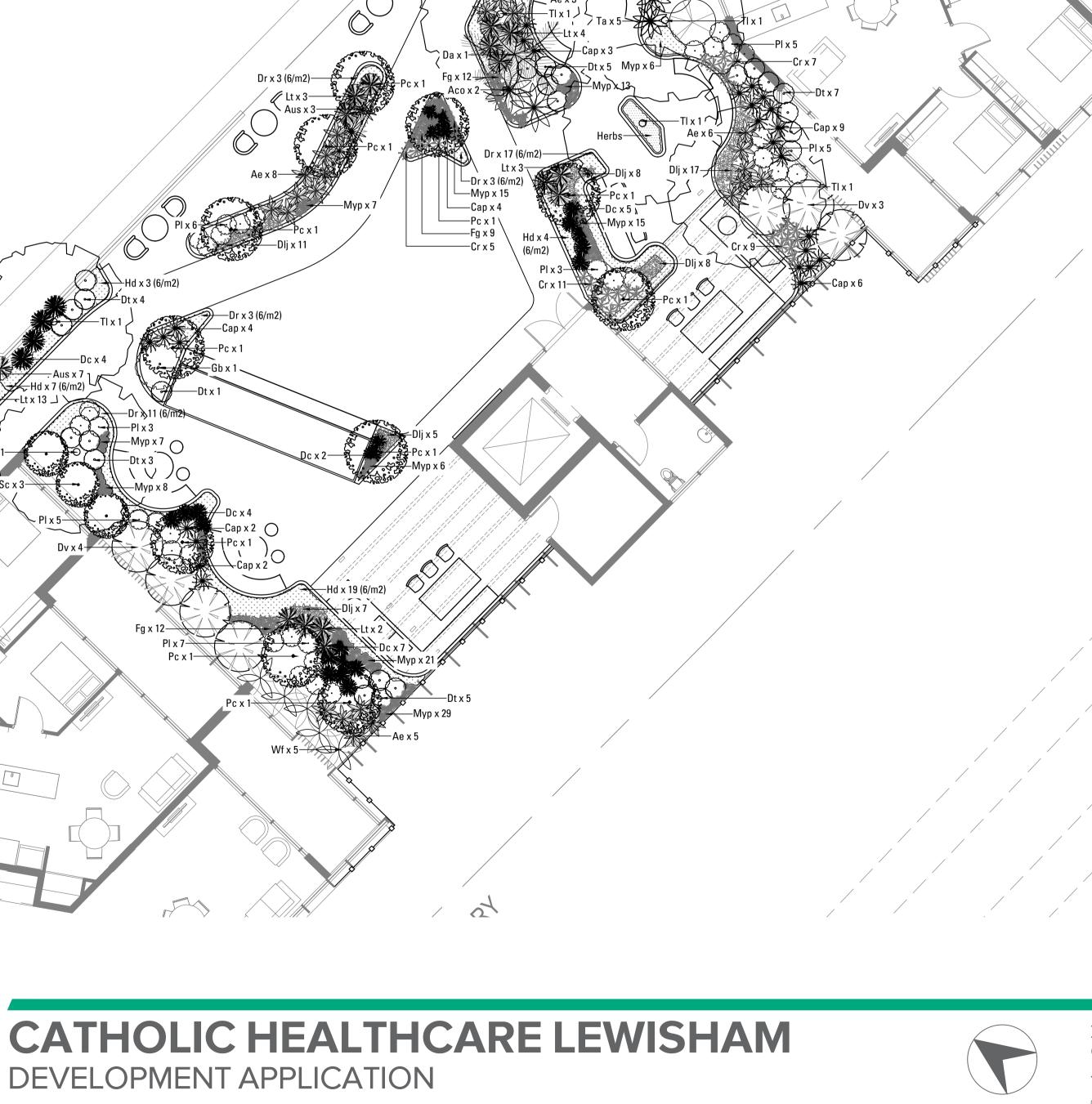
LANDSCAPE PLAN-PODUM

The survey and landscape use typical sized tree canopies.

The tree canopies are approximate and not perfectly accurate to reflect the mature size of each species







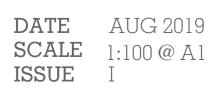


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Note:			
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The tree canopies are approxim perfectly accurate to reflect the	ate and not mature		THUR
size of each species			
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		Lt x 9	XXXXXXX
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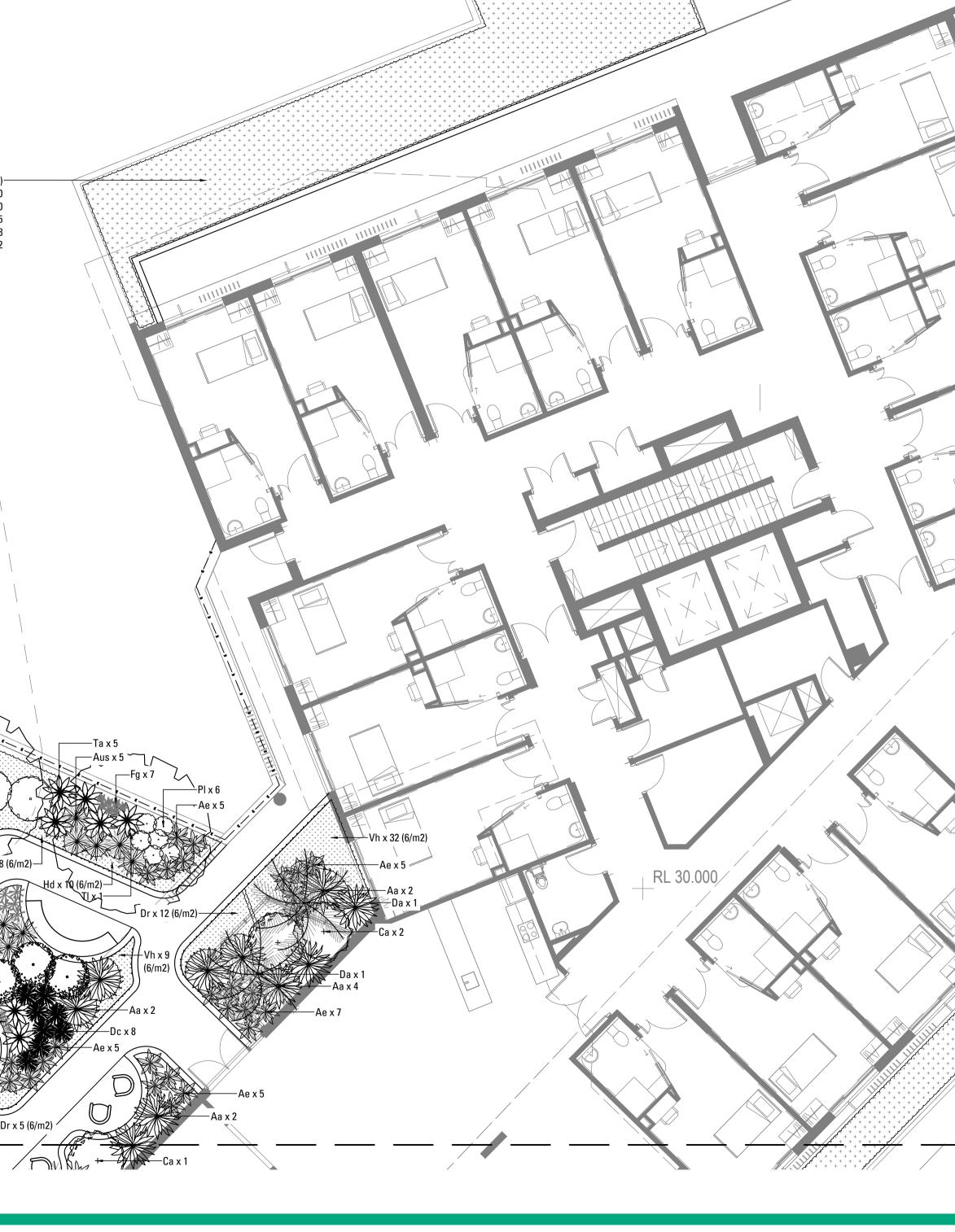




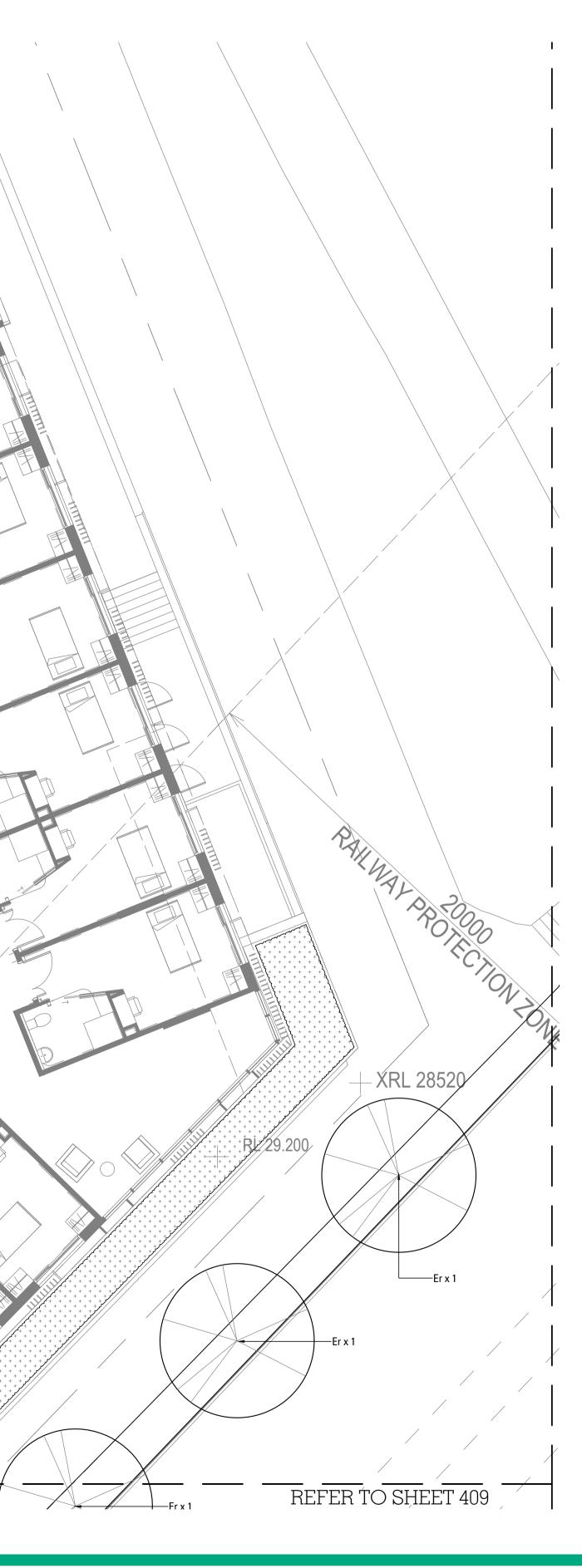
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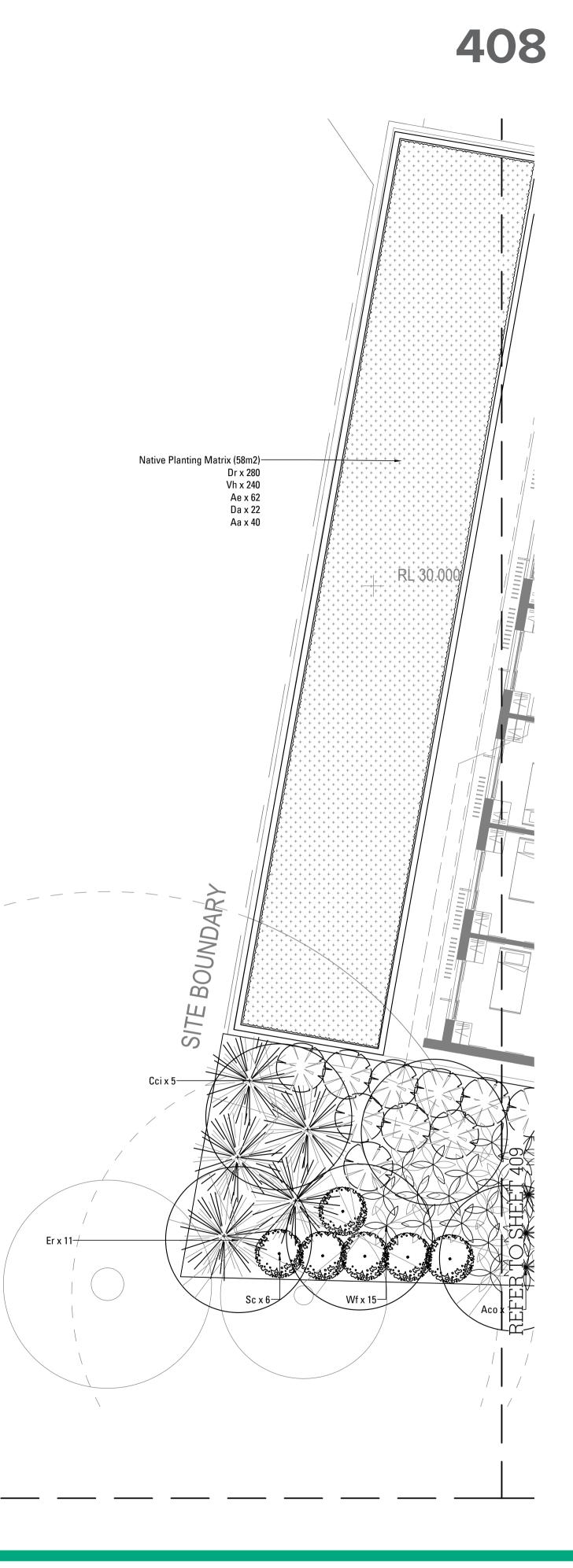




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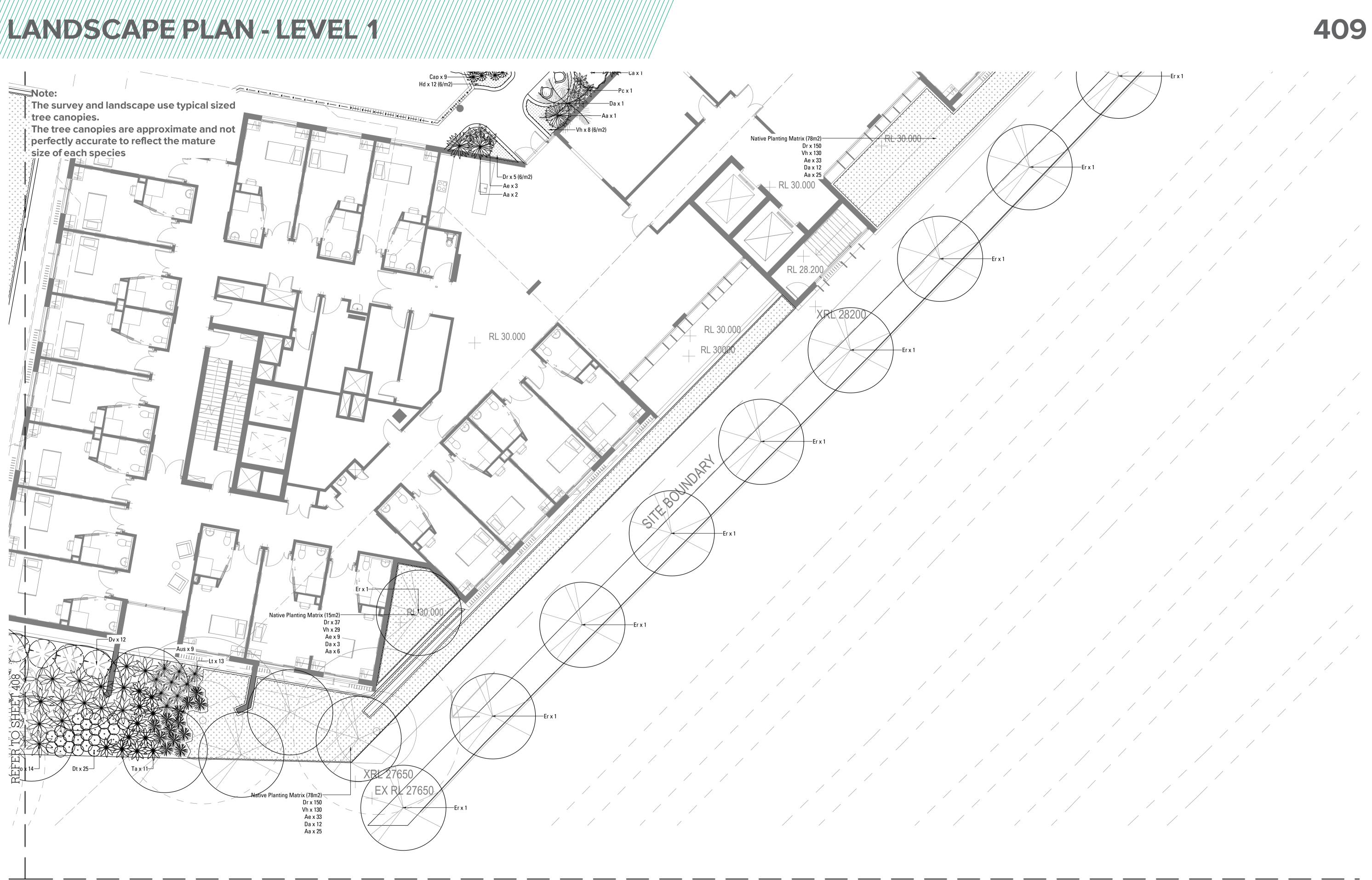


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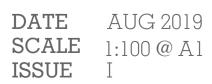
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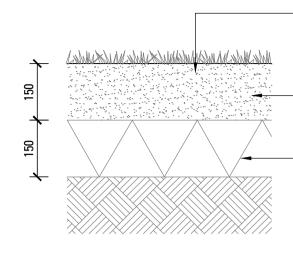


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PROPOSED TURF **Refer Specification**

TOPSOIL

Refer Specification

- BREAK UP & CULTIVATE SUBGRADE TO 150mm DEPTH





00 SHRUB OR GROUNDCOVER IN PLANTING BED

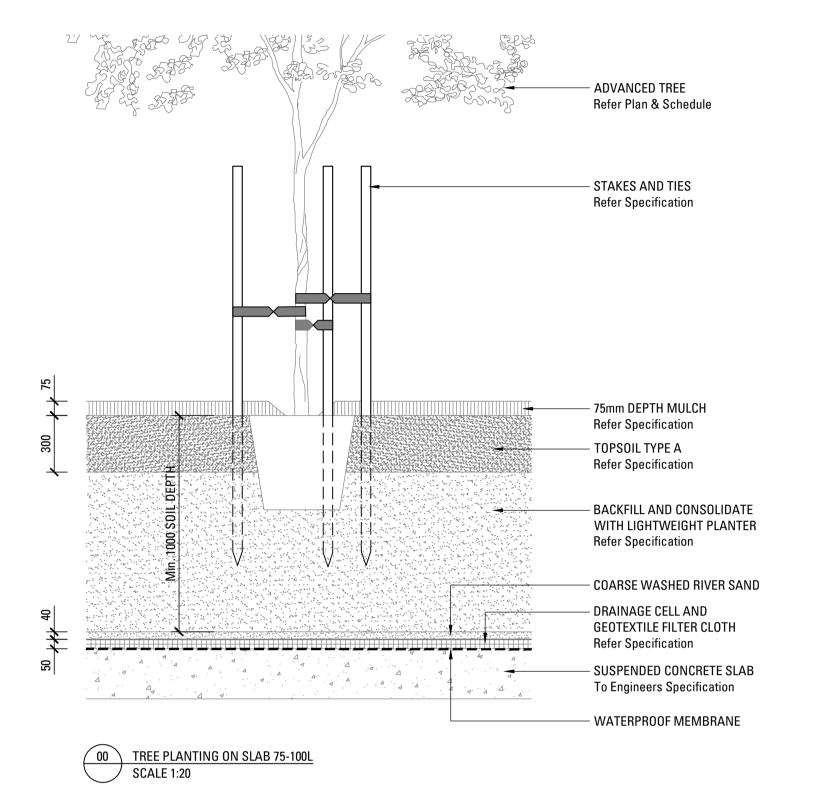
SCALE 1:20

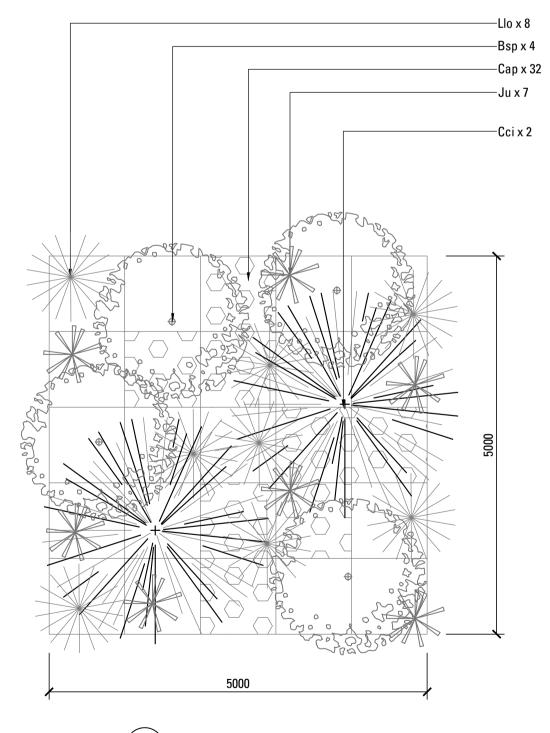


75mm DEPTH MULCH REFER SPECIFICATION DISHED AROUND BASE OF TRUNK

- BACKFILL & CONSOLIDATE WITH TOPSOIL MIXTURE & FERTILISE TO MIN. 300mm Refer Specification

- BREAKUP & CULTIVATE SUBGRADE TO 150mm DEPTH

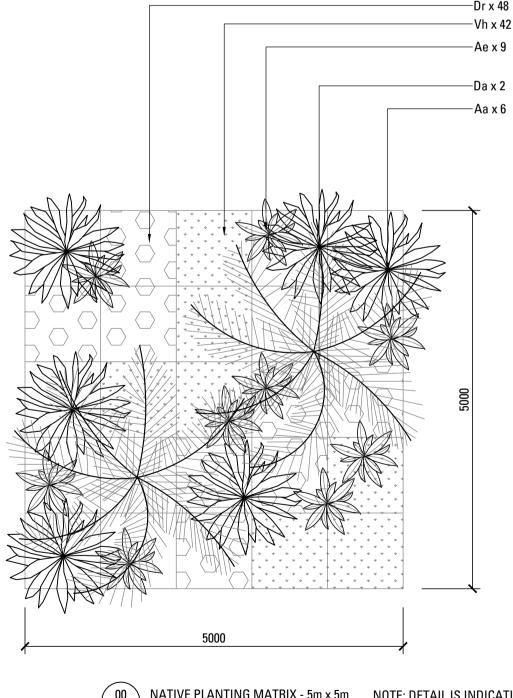




00 SWALE MATRIX - 5m x 5m SCALE 1:50

NOTE: DETAIL IS INDICATIVE ONLY, PLANT ALL SPECIES RANDOMLY AT AM OVERALL RATE OF 10/m2





00 NATIVE PLANTING MATRIX - 5m x 5m SCALE 1:50



LANDSCAPE DETAILS AND SPECIFICATION

NOTE: DETAIL IS INDICATIVE ONLY, PLANT ALL SPECIES RANDOMLY AT AM OVERALL RATE OF 10/m2

LANDSCAPE SPECIFICATION NOTES

SERVICES

BEFORE LANDSCAPE WORK IS COMMENCED THE LANDSCAPE CONTRACTOR IS TO ESTABLISH THE POSITION OF ALL SERVICE LINES AND ENSURE TREE PLANTING IS CARRIED OUT AT LEAST 3 METRES AWAY FROM THESE SERVICES. SERVICE LIDS, VENTS AND HYDRANTS SHALL BE LEFT EXPOSED AND NOT COVERED BY ANY LANDSCAPE FINISHES (TURFING, PAVING, GARDEN BEDS ETC.) FINISH ADJOINING SURFACES FLUSH WITH PIT LIDS.

ABORIST MANAGEMENT OF TREE PROTECTION

A QUALIFIED AND APPROVED ABORIST IS TO BE CONTRACTED TO UNDERTAKE OR MANAGE THE INSTALLATION OF PROTECTIVE FENCING, AND TO UNDERTAKE SUCH MEASURES AS HE DEEMS APPROPRIATE TO PRESERVE THE SUBJECT TREES TO BE RETAINED. THE ARBORIST IS TO BE RETAINED FOR THE ENTIRE CONTRACT PERIOD TO UNDERTAKE ONGOING MANAGEMENT AND REVIEW OF THE TREES.

DRAINAGE CELL AND FILTER FABRIC

FOR ON-SLAB AREAS INSTALL AN APPROVED 'DRAINAGE CELL' PRODUCT TO COMPREHENSIVELY COVER THE BOTTOM OF ALL PLANTERS. OVER DRAINAGE CELL TO ON-SLAB AREAS, A POLYFELT GEOTEXTILE LINING (AS SUPPLIED BY 'POLYFELT TS' OR APPROVED EQUIVALENT) IS TO BE INSTALLED TO COVER THE BOTTOM OF ALL PLANTERS, TURNED UP 300MM AND TAPED TO THE PLANTER SIDES TO ENSURE SOIL MIX DOES NOT ESCAPE INTO DRAINAGE OUTLETS/HOLES. INSTALL MIN. 50MM COARSE RIVER SAND OVER ALL GEOTEXTILE LINING PRIOR TO INSTALLATION OF SOIL MIX.

PLANTING MIXTUR

SHALL BE HOMOGENOUS BLEND OF SOIL AND ADDITIVES IN THE FOLLOWING PROPORTIONS: EXISTING SITE SOIL IF SUITABLE OR

IMPORTED TOPSOIL 50% COMPOST 30%

D/W SAND 20%

SOIL TESTING OF EXISTING SITE SOIL IS TO BE UNDERTAKEN TO ASSESS SUITABILITY OF USE AS PLANTING TOPSOIL AND COMPLIANCE WITH AUSTRALIAN STANDARDS.

MULCH APPLICATION

PLACE MULCH TO THE REQUIRED DEPTH, (REFER TO DRAWINGS) CLEAR OF PLANT STEMS, AND RAKE TO AN EVEN SURFACE FINISHING 25MM BELOW ADJOINING LEVELS. ENSURE MULCH IS WATERED IN AND TAMPED DOWN DURING INSTALLATION.

MIII CH TYPF PINE BARK: FROM MATURE TREES, GRADED IN SIZE FROM 15MM TO 30MM, FREE FROM WOOD SLIVERS. DARK BROWN IN COLOUR AND TEXTURE.

COMPOST

SHALL BE WELL ROTTED VEGETATIVE MATERIAL OR ANIMAL MANURE, OR OTHER APPROVED MATERIAL, FREE FROM HARMFUL CHEMICALS, GRASS AND WEED GROWTH AND WITH NEUTRAL PH. PROVIDE A CERTIFICATE OF PROOF OF PH UPON REQUEST.

PLANT MATERIA ALL PLANTS SUPPLIED ARE TO CONFORM WITH THOSE SPECIES LISTED IN THE PLANT SCHEDULE ON THE DRAWINGS. GENERALLY PLANTS SHALL BE VIGOROUS. WELL ESTABLISHED, HARDENED OFF, OF GOOD FORM CONSISTENT WITH SPECIES OR VARIETY, NOT SOFT OR FORCED, FREE FROM DISEASE OR INSECT PESTS WITH LARGE HEALTHY ROOT SYSTEMS AND NO EVIDENCE OF HAVING BEEN RESTRICTED OR DAMAGED. TREES SHALL HAVE A LEADING SHOOT. IMMEDIATELY REJECT DRIED OUT, DAMAGED OR UNHEALTHY PLANT MATERIAL BEFORE PLANTING. ALL STOCK IS TO BE CONTAINER GROWN FOR A MINIMUM OF SIX (6) MONTHS PRIOR TO DELIVERY TO SITE

FERTILISER MASS PLANTING AREAS FERTILISER SHALL BE 'NUTRICOTE' OR APPROVED EQUIVALENT IN GRANULE FORM INTENDED FOR SLOW RELEASE OF PLANT NUTRIENTS OVER A PERIOD OF APPROXIMATELY NINE MONTHS. THOROUGHLY MIX FERTILISER WITH PLANTING MIXTURE AT THE RECOMMENDED RATE, PRIOR TO INSTALLING PLANTS.

SHALL BE SIR WALTER BUFFALO. SHIRLEYS NO. 17 OR APPROVED EQUAL LAWN FOOD SHALL BE THOROUGHLY MIXED INTO THE TOPSOIL PRIOR TO PLACING TURF.

TREES IN GRASS AND SUPER ADVANCED TREES:

PELLETS SHALL BE IN THE FORM INTENDED TO UNIFORMLY RELEASE PLANT FOOD ELEMENTS FOR A PERIOD OF APPROXIMATELY NINE MONTHS EQUAL TO SHIRLEYS KOKEI PELLETS, ANALYSIS 6.3:1.8:2.9. KOKEI PELLETS SHALL BE PLACED AT THE TIME OF PLANTING TO THE BASE OF THE PLANT. 50MM MINIMUM FROM THE ROOT BALL AT A RATE OF TWO PELLETS PER 300MM OF TOP GROWTH TO A MAXIMUM OF 8 PELLETS PER TREE.

STAKING AND TYING

STAKES SHALL BE STRAIGHT HARDWOOD, FREE FROM KNOTS AND TWISTS, POINTED AT ONE END AND SIZED ACCORDING TO SIZE

OF PLANTS TO BE STAKED.

A. 5-15 LITRE SIZE PLANT 1X(1200X25X25MM

B. 35-75 LITRE SIZE PLANT 2X(1500X38X38MM) C. 100-GREATER THAN 200LITRE 3X(1800X50X50MM)

TIES SHALL BE 50MM WIDE HESSIAN WEBBING OR APPROVED EQUIVALENT NAILED OR STAPLED TO STAKE. DRIVE STAKES A MINIMUM ONE THIRD OF THEIR LENGTH, AVOIDING DAMAGE TO THE ROOT SYSTEM, ON THE WINDWARD SIDE OF THE PLANT.

IBBIGATION SYSTEM

SUPPLY AN AUTOMATIC WATERING SYSTEM USING 'TORO IRRIGATION SYSTEM' OR SIMILAR APPROVED, WITH MICRO-JET SPRINKLER HEADS AND LOW DENSITY, RUBBER MODIFIED POLYPROPYLENE RETICULATION, TO INCLUDE FILTERS, BENDS JUNCTIONS, ENDS AND OTHER ANCILLARY EQUIPMENT. THE LANDSCAPER SHALL NOMINATE HIS SOURCE OF SUPPLY FOR THE WATERING SYSTEM AND OBTAIN APPROVAL FROM THE SUPERINTENDENT BEFORE PLACING ORDERS FOR EQUIPMENT OR

A SCHEMATIC PLAN OF THE PROPOSED IRRIGATION SYSTEM IS TO BE PREPARED BY THE CONTRACTOR, SHOWING SOLENOIDS, PIPE DIAMETERS, AND ALL NOZZLE AND TRICKLE ATTACHMENT TYPES (INCLUDING SPRAY/HEAD ANGLE), FOR REVIEW BY THE SUPERINTENDENT PRIOR TO INSTALLATION

THE CONTRACTOR IS TO LIASE WITH THE HYDRAULIC ENGINEER AND COUNCIL AS NECESSARY, TO ENSURE THE THE IRRIGATION SYSTEM CONFORMS WITH ALL THE COUNCIL AND WATER BOARD CODES AND REQUIREMENTS.

PROVIDE AN AUTOMATIC CONTROLLER THAT PROVIDES FOR TWO WEEK SCHEDULING AND HOURLY MULTI-CYCLE OPERATION. THE CONTROLLER SHALL MANUAL OVERRIDE. PROGRAMMING SHALL BE UNDERTAKEN BY THE CONTRACTOR WHO SHALL ADVISE ON THE OPERATION OF THE SYSTEM.

PROVISION OF SECURE HOUSING FOR THE AUTOMATIC IRRIGATION CONTROLLER TO BE LOCATED IN ASSOCIATION WITH THE LANDSCAPE CONTRACTOR AND LOCATION CONFIRMED BY THE SUPERINTENDENT. WIRING TO CONNECT REMOTE SOLENOID LOCATIONS IS TO BE PROVIDED. THE CONTROLLER SHALL BE LOCATED IN A DRY PLACE, PROTECTED FROM THE WEATHER, AND ALL CABLE CONNECTIONS SHALL BE MADE WITH WATERPROOF CONNECTORS.

WATER SUPPLY POINTS TO BE SUPPLIED BY BUILDER.



PREPA CLIEN ARCH



IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE AND GUARANTEE SATISFACTORY OPERATION OF THE IRRIGATION SYSTEM.

AFTER THE SYSTEM HAS BEEN INSTALLED TO THE SATISFACTION OF THE SUPERINTENDENT, THE INSTALLATION SHALL BE TESTED UNDER KNOWN WORKING CONDITIONS. ACCEPTANCE OF THE INSTALLED PLANT AND EQUIPMENT SHALL BE SUBJECT TO THESE BEING SATISFACTORY.

TREATED PINE TIMBER EDGING

TIMBER EDGE: 100 X 25MM CCA TREATED RADIATA PINE TIMBER STAKES: 50 X 50 X 500MM CCA TREATED RADIATA PINE-SHARPENED AT ONE END. INSTALL IN LOCATIONS SHOWN ON THE DRAWINGS FLUSH TO FINISHED SURFACE LEVELS.

TURF ALL LANDSCAPE AREAS AS SHOWN ON THE LANDSCAPE DRAWINGS. TURF IS TO HAVE AN EVEN THICKNESS OF NOT LESS THAN 25MM. OBTAIN TURF FROM AN APPROVED GROWER. FURNISH A WARRANTY FROM THE GROWER THAT THE TURF IS FREE FROM WEEDS AND OTHER FOREIGN MATTER. DELIVER TURF TO THE SITE WITHIN 24 HOURS OF BEING CUT, AND LAY IT WITHIN 24 HOURS OF BEING DELIVERED.

TO PREPARE GRADED AREAS TO RECEIVE TURF, EXCAVATE THE AREA AND CULTIVATE SO AS TO ALLOW FOR IMPORTING OF 100MM OF TURF UNDERLAY SOIL. REMOVE ALL STONES OVER 50MM Ø AND REMOVE ALL WEEDS AND FOREIGN MATTER. SPREAD SOIL MIX A.B.S TO A DEPTH OF 100MM AND GRADE TO APPROPRIATE LEVELS TO ACHIEVE GENERAL EVEN GRADES TO DRAINAGE OUTLETS INSTALLED BY OTHERS.

LAY THE TURF ALONG THE LAND CONTOURS WITH STAGGERED, CLOSE BUTTED JOINTS, SO THAT THE FINISHED TURF SURFACE IS FLUSH WITH ADJACENT FINISHED SURFACES OF PAVING AND THE LIKE. AS SOON AS PRACTICABLE AFTER LAYING, ROLL THE TURF WITH A ROLLER WEIGHING NOT MORE THAN 90KG PER METRE OF WIDTH FOR SANDY OR LIGHT SOILS.

WATER AS NECESSARY TO KEEP THE SOIL MOIST TO A DEPTH OF 100MM. PROTECT NEWLY TURFED AREAS AGAINST TRAFFIC UNTIL GRASS IS ESTABLISHED. FERTILISE TWO WEEKS AFTER LAYING FERTILISE A.B.S

TOP DRESS' THE TURF WHEN IT IS ESTABLISHED TO A DEPTH OF 10MM WITH COARSE WASHED RIVER SAND, RUB THE DRESSING WELL INTO THE JOINTS AND CORRECT ANY UNEVENNESS IN THE TURF SURFACES.

LANDSCAPE MAINTENANCE PROGRAM

MAINTENANCE SHALL MEAN THE CARE AND MAINTENANCE OF THE LANDSCAPE WORKS BY ACCEPTED HORTICULTURAL PRACTICE AS RECTIFYING ANY DEFECTS THAT BECOME APPARENT IN THE LANDSCAPE WORKS UNDER NORMAL USE. THIS SHALL INCLUDE, BUT SHALL NOT BE LIMITED TO, WATERING, MOWING, FERTILISING, RESEEDING, RETURFING, WEEDING, PEST AND DISEASE CONTROL, STAKING AND TYING, REPLANTING, CULTIVATION, PRUNING, AERATING, RENOVATING, TOP DRESSING, MAINTAINING THE SITE IN A NEAT AND TIDY CONDITION AS FOLLOWS:-

GENERAL

THE LANDSCAPE CONTRACTOR SHALL MAINTAIN THE LANDSCAPE WORKS FOR THE TERM OF THE MAINTENANCE (OR PLANT ESTABLISHMENT) PERIOD TO THE SATISFACTION OF THE COUNCIL. THE LANDSCAPE CONTRACTOR SHALL ATTEND TO THE SITE ON A WEEKLY BASIS. THE MAINTENANCE PERIOD SHALL COMMENCE AT PRACTICAL COMPLETION AND CONTINUE FOR A PERIOD OF TWENTY SIX (26) WEEKS.

WATERING

GRASS, TREES AND GARDEN AREAS SHALL BE WATERED REGULARLY SO AS TO ENSURE CONTINUOUS HEALTHY GROWTH.

RUBBISH REMOVA

DURING THE TERM OF THE MAINTENANCE PERIOD THE LANDSCAPE CONTRACTOR SHALL REMOVE RUBBISH THAT MAY OCCUR AND REOCCUR THROUGHOUT THE MAINTENANCE PERIOD. THIS WORK SHALL BE CARRIED OUT REGULARLY SO THAT AT WEEKLY INTERVALS THE AREA MAY BE OBSERVED IN A COMPLETELY CLEAN AND TIDY CONDITION.

REPLACEMENTS

THE LANDSCAPE CONTRACTOR SHALL REPLACE ALL PLANTS THAT ARE MISSING, UNHEALTHY OR DEAD AT THE LANDSCAPE CONTRACTOR'S COST. REPLACEMENTS SHALL BE OF THE SAME SIZE, QUALITY AND SPECIES AS THE PLANT THAT HAS FAILED UNLESS OTHERWISE DIRECTED BY THE LANDSCAPE ARCHITECT. REPLACEMENTS SHALL BE MADE ON A CONTINUING BASIS NOT EXCEEDING TWO (2) WEEKS AFTER THE PLANT HAS DIED OR IS SEEN TO BE MISSING.

STAKES AND TIES

THE LANDSCAPE CONTRACTOR SHALL REPLACE OR ADJUST PLANT STAKES. AND TREE GUARDS AS NECESSARY OR AS DIRECTED BY THE LANDSCAPE ARCHITECT. REMOVE STAKES AND TIES AT THE END OF THE MAINTENANCE PERIOD IF SO DIRECTED.

TREES AND SHRUBS SHALL BE PRUNED AS DIRECTED BY THE LANDSCAPE ARCHITECT, PRUNING WILL BE DIRECTED AT THE MAINTENANCE OF THE DENSE FOLIAGE OR MISCELLANEOUS PRUNING AND BENEFICIAL TO THE CONDITION OF THE PLANTS. ANY DAMAGED GROWTH SHALL BE PRUNED. ALL PRUNED MATERIAL SHALL BE REMOVED FROM THE SITE.

MULCHED SURFACES

ALL MULCHED SURFACES SHALL BE MAINTAINED IN A CLEAN AND TIDY CONDITION AND BE REINSTATED IF NECESSARY TO ENSURE THAT A DEPTH OF 75MM IS MAINTAINED. ENSURE MULCH IS KEPT CLEAR OF PLANT STEMS AT ALL TIMES.

PEST AND DISEASED CONTROL

THE LANDSCAPE CONTRACTOR SHALL SPRAY AGAINST INSECT AND FUNGUS INFESTATION WITH ALL SPRAYING TO BE CARRIED OUT IN ACCORDANCE WITH THE MANUFACTURER'S DIRECTIONS. REPORT ALL INSTANCES OF PESTS AND DISEASES (IMMEDIATELY THAT THEY ARE DETECTED) TO THE LANDSCAPE ARCHITECT.

GRASS AND THRE AREAS

THE LANDSCAPE CONTRACTOR SHALL MAINTAIN ALL GRASS AND TURF AREAS BY WATERING, WEEDING, DRESSING, ROLLING, MOWING, TRIMMING OR OTHER OPERATIONS AS NECESSARY. SEED AND TURF SPECIES SHALL BE THE SAME AS THE ORIGINAL SPECIFIED MIXTURE, GRASS AND TURE AREAS SHALL BE SPRAYED WITH APPROVED SELECTIVE HERBICIDE AGAINST BROAD LEAFED WEEDS AS REQUIRED BY THE LANDSCAPE ARCHITECT AND IN ACCORDANCE WITH THE MANUFACTURER'S DIRECTIONS GRASS AND TURF AREAS SHALL BE FERTILISED ONCE A YEAR IN AUTUMN WITH "DYNAMIC LIFTER" FOR LAWNS AT A RATE OF 20KG PER 100M2. FERTILISER SHALL BE WATERED IN IMMEDIATELY AFTER APPLICATION. IRREGULARITIES IN THE GRASS AND TURF SHALL BE WATERED IN IMMEDIATELY AFTER APPLICATION. GRASS AND TURF AREAS SHALL BE KEPT MOWN TO MAINTAIN A HEALTHY AND VIGOROUS SWARD. MOWING HEIGHT: 30-50MM.

WEED ERADICATION

ERADICATE WEEDS BY ENVIRONMENTALLY ACCEPTABLE METHODS USING A NON-RESIDUAL GLYPHOSATE HERBICIDE (EG. 'ROUNDUP') IN ANY OF ITS REGISTERED FORMULAE. AT THE RECOMMENDED MAXIMUM RATE. REGULARLY REMOVE BY HAND. WEED GROWTH THAT MAY OCCUR OR RECUR THROUGHOUT GRASSED, PLANTED AND MULCHED AREAS. REMOVE WEED GROWTH FROM AN AREA 750MM DIAMETER AROUND THE BASE OF TREES IN GRASSED AREAS. CONTINUE ERADICATION THROUGHOUT THE COURSE OF THE WORKS AND DURING THE MAINTENANCE PERIOD.

SOIL SUBSIDENCE

ANY SOIL SUBSIDENCE OR EROSION WHICH MAY OCCUR AFTER THE SOIL FILLING AND PREPARATION OPERATIONS SHALL BE MADE GOOD BY THE LANDSCAPE CONTRACTOR AT NO COST TO THE CLIENT.

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