

LANDSCAPE ARCHITECTURE

LANDSDALE CHRISTIAN

SCHOOL

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77 Queensway Rd, Landsdale

ISSUE SUMMARY

240301_DA Report

240202_Concept Presentation to Client231106_Interim Concept Design

CARRIER AND POSTMUS ARCHITECTS (CAPA STUDIO)

LANDSCAPE ARCHITECTURE

CONNECTED - CRAFTED - CONSIDERED





CAPA STUDIO

Architecture

Landscape Architecture



A considered and integrated landscape and architectural approach can provide great benefit for the school community in assessing current stock and in envisaging new futures.

The landscape amenities can be an important asset for the school community. They provide a physical identity for the school, and important interface with the local community, opportunities for physical and passive recreation engagement for the students and a valuable natural asset for education.

The landscape design proposal has been developed hand in hand with the architect. Carpark spaces have been designed as opportunities with water collection in mind, with subterranean structural soil providing an infrastructure for significant tree canopies.

External spaces for the new classrooms are sited adjacent to the oval, with generous northern solar access and shaded tree canopies. Diversity of spaces and functional opportunities have also been provided for students and staff.



crafted spaces and valuing Landsdale's endemic places







CAPA STUDIO

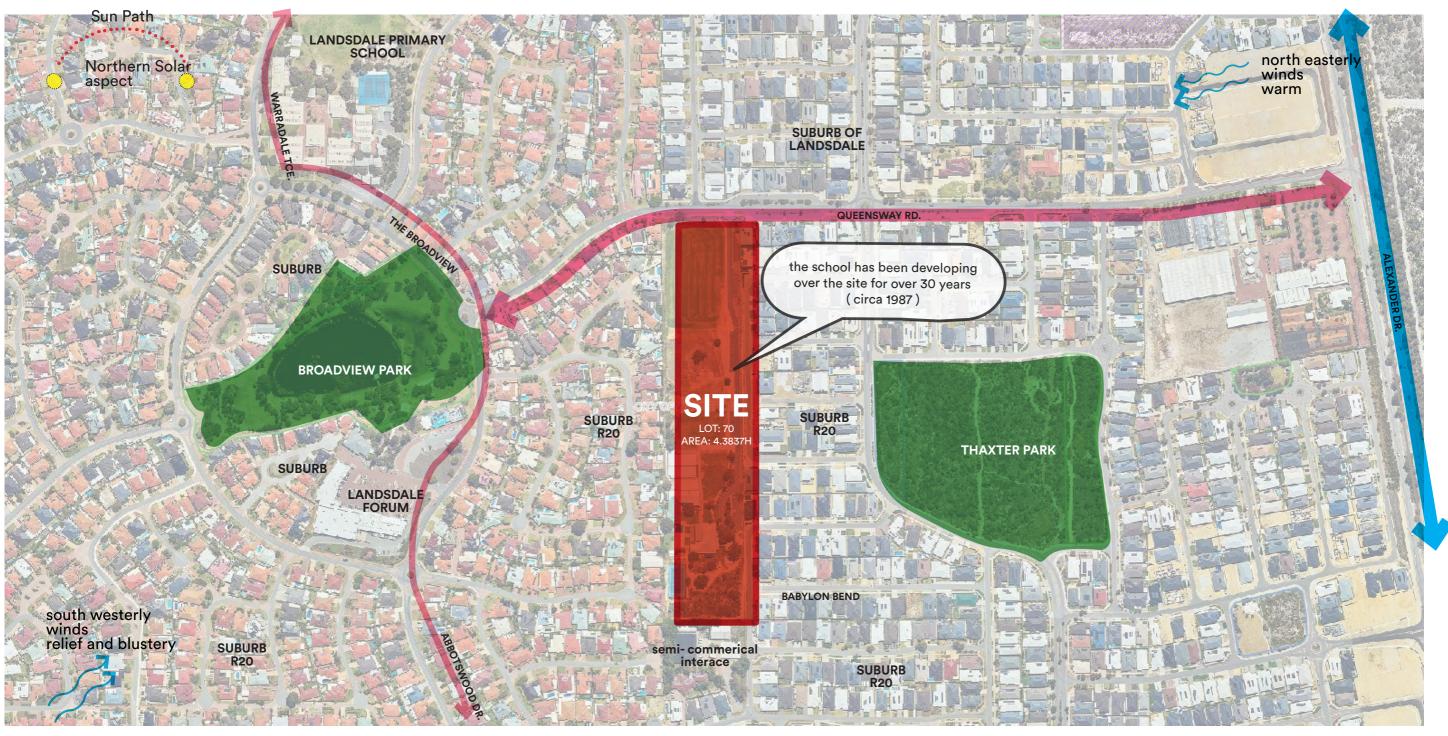
LANDSCAPE ARCHITECTURE

LANDSDALE CHRISTIAN SCHOOL

DA REPORT

SITE ANALYSIS

Site Context









The Landsdale Christian school site is located in a tract of land, linear in nature (90 \times 470m) and surrounded by single/double storey residential dwellings. With the locale formerly a Banksia Woodland, there are a number of valuable Australian planting specimens that are meritorious for preservation and incorporation in the school landscape strategy.

The entry of the school is currently via one entry point the main road to Queensway Rd, with the Administration at the rear of the site.

A new staging of works is bringing the administration into the centre of the site.











DL DA REPORT

SITE CONTEXT

SCALE: NTS@A3



SITE ANALYSIS

Existing Areas + Characters







- MEDIUM TREES/BANKSIA
- LARGE SIGNIFICANT TREES
- BANKSIA WOODLAND AREA
- PLAYGROUND/NATURE PLAY
 - SPORTS COURTS
 - LAWN AREAS
 - SPORTS OVAL

- ADMINISTRATION
- EARLY LEARNING/PRE-PRIMARY
- PRIMARY SCHOOL
- HIGH SCHOOL













SITE ANALYSIS Existing Circulations/Access





IIII FIRE ACCESS







EXISTING PROMENADE_3m WIDE PATH

CLASSROOM LINKS

SPORTS COURTS

PLAYGROUND/NATURE PLAY

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EARLY LEARNING/PRE-PRIMARY

PRIMARY SCHOOL

HIGH SCHOOL

PRIMARY VEHICLE CIRCULATION

PEDESTRIAN CROSSING

PEDESTRIAN GATE ACCESS

SITE ANALYSIS Existing Services





LIGHT POLE





STORMWATER DRAINAGE

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HIGH SCHOOL

SERVICE VEHICULAR ACCESS

PRIMARY VEHICULAR ACCESS

LANDSCAPE OVERALL PLAN











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6 6 3. 5. 6.

LANDSCAPE SITE PLAN

KEY ITEMS

- 1. PROPOSED LANDSCAPE TERRACE Shade trees surrounded by small flowering feature trees. Refer to Landscape Terrace Plan
- 2. LANDSCAPED BOUNDARY Small evergreen trees along boundary fence.
- 3. CENTRAL PATH Primary path connecting proposed area to existing.
- 4. GREEN EDGES Lawn to edges of new courtyard to connect existing lawn area.
- 5. NEW LINKING PATH Secondary path connecting car park to courtyard and learning areas.
- 6. EXISTING LAWN Existing lawn to be retained.
- 7. NEW CAR PARK TREE PLANTING Proposed new car park. Refer to architectural for materials.
- 8. NATIVE PLANTING Row of tall native trees with feature small trees to car park garden.
- 9. EXISTING DRIVEWAY Existing bitumen driveway.
- 10. NEW LAWN







Landscape Architecture



LANDSCAPE PLAN **Courtyard Garden**





SMALL FEATURE TREE Lagerstroemia indica x L. fauriei 'Zuni Crepe Myrtle'

KEY ITEMS

- 1. TALL HEDGING Waterhousea floribunda 'Whisper Weeping Lilly Pilly' (200LT)
- 2. NATIVE GARDEN Selection of native planting.
- 3. LAWN Circular lawn area.
- 4. SHADE TREES Gleditsia triacanthos inermis 'Shademaster' (500 lt)
- 5. FIXED FURNITURE Integrated shade seating
- 6. LOOSE FURNITURE Outdoor lounge and dining furniture.
- 7. SMALL FEATURE TREES Lagerstroemia indica x L. fauriei 'Zuni Crepe Myrtle' (200 LT)
- 8. NEW CONCRETE PAVING Earthy hue segmental concrete paving to compliment the existing paving.

SCALE: 1:200 @A3

- 9. NEW PAVING Muted tone concrete paving
- 10. EXISTING PAVING Existing segmental paving.









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LANDSCAPE SITE PLAN



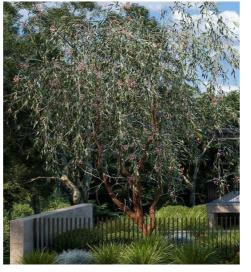
LANDSCAPE PLAN

Entry Garden





SMALL FEATURE TREE Corymbia maculata 'Spotted Gum'



SMALL FEATURE TREE
Eucalyptus caesia 'Silver Princess'

KEY ITEMS

- NEW PAVING
 New concrete paving connecting existing pedestrian link.
- NEW CAR PARK
 Area to be filled with structural soil underneath paving. Hardscape selection by architects.
- LANDSCAPED CROSSING ISLAND
 Safe passage for crossing surrounded by native planting.
- TALL NATIVE TREES
 Corymbia maculata 'Spotted Gum' (150lt) set in diamonds with structural soil under carbays.
- 5. SMALL FEATURE TREES
 Eucalyptus caesia 'Silver Princess' (150lt)
- 6. EXISTING DRIVEWAY Existing bitumen driveway7. NEW CARPARKING
- Refer to arch dwgs
- 8. EXISTING FIRE ACCESS
 Entry to new car park connecting to existing fire access.







SOFTSCAPE PALETTE

Courtyard Garden_indicative







Terrace Plantings

FEATURE SHADE PLANTS

Philodendron xanadu, Aspidistra elatior 'Cast iron plant' (4 per m2)



GROUND PLANTING Lomandra 'tanika' + Lomandra 'lime tuff' mix 70cm h x 60cm w (4 per m2)



Landscape Terrace Trees

FEATURE SHADE TREES Gleditsia triacanthos 'Shademaster' 12m h x 7m w 500 lt stock



CONTRAST PLANTING
Olearia axillaris 'Lilttle Smokie' + Westringia sp.
1m h x 1m w
2 per m2

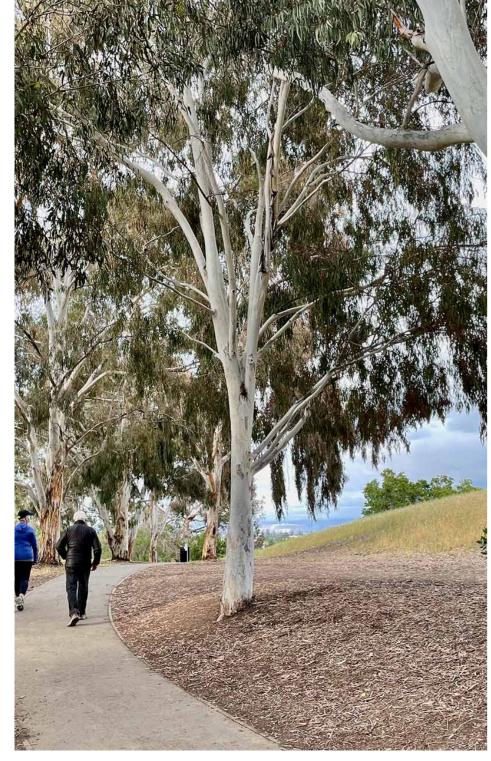
FEATURE NATIVE SHRUB Grevillea Superb 2m h x 2m w Feature planting

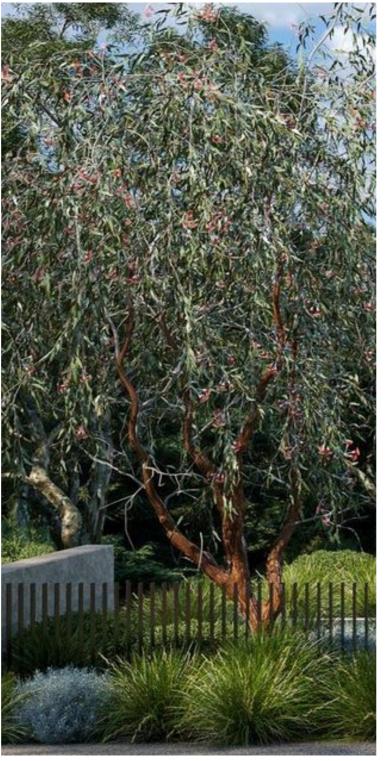




SOFTSCAPE PALETTE

Entry Garden_Indicative









ACCENT FEATURE PLANT Poa labillardieri eskdale 'Bluegrass' 60cm h x 45cm w (4 per m2)



FEATURE PLANT Lomandra 'tanika' + Lomandra 'lime tuff' mix 70cm h x 60cm w (4 per m2)



EntryTrees

FEATURE SHADE TREES
Corymbia maculata 'Spotted Gum'
15m h x 8m w
150 lt stock



CONTRAST PLANTING
Adenanthos cuneatus 'Coral carpet' +
Westringia sp.
2 per m2)

FEATURE PLANT
Banksia menziesii dwarf + Banksi petiolaris mix
1.5m h x 1.5m w, 60cm h x 4m w
feature planting





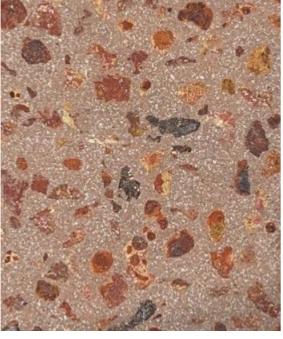


HARDSCAPE PALETTE

_indicative



EXISTING PAVERS Mono-tonal segmental pavers



Terrace Paving





CONCRETE / SEGMENTAL PAVERS Colour: Custom Size: 400 × 300 × 60mm Finish: Shot blast Supplier: UrbanStone



Brick seats/ low walls

Colour: Nouveau Grey

Size: 230 × 110 × 76mm Supplier: Midland Brick

BRICKS

CONCRETE / SEGMENTAL PAVERS Colour: Custom Size: 400 × 300 × 60mm Finish: Shot blast Supplier: UrbanStone



Courtyard Furniture

LINEAR CURVED BENCH Colour: Bondi Blue Size: TBC **Supplier: Street Furniture**



CAFE TABLE + STOOLS Colour: TBC **Supplier: Street Furniture**







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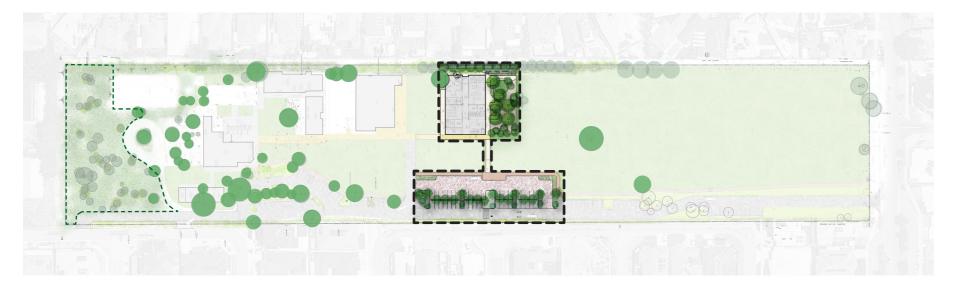
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200 m² 110 m² 241 m² 35 m² 13 m² 31 m² 30 m² 72 m² 20 m² 20 m²



DEEP SOIL ZONES SCALE: NTS

TREE CANOPY COVERAGE SCALE: NTS



OVERALL LANDSCAPE SITE PLAN SCALE: NTS







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LANDSCAPE TECHNICAL

DEEP SOIL ZONES	
Overall Site Area	43837m²
Proposed Site Area	approx. 4700 m²
Proposed Site Deep Soil Zones	877m²
Structural Soil Zones	945m²
Landscaping Ratio to proposed site area	18.6%

TREE CANOPY METRIC	
Site Area	43837m²
Existing Trees	More than 100 existing trees as well as existing banksia woodlands
New Trees	21 small trees 6 medium trees 17 street trees 15 boundary trees
Summary:	Element objective of improving the tree canopy long term will be achieved.

LEGEND



Small Trees (21 off)



Medium Trees (6 off)



Medium Trees in Structural Soil Zones



Deep Soil Zones



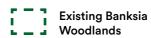
Structural Soil Zones to carbays

Boundary Trees

Existing Trees

(15 +)

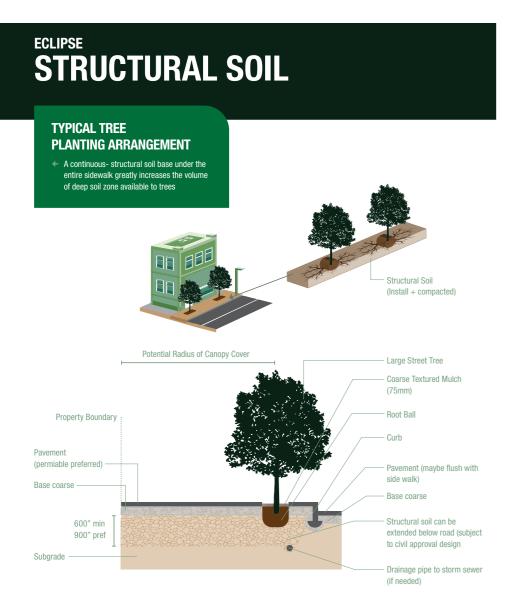
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LANDSCAPE TECHNICAL Structural Soil

Eclipse Structural Soil is specifically designed to provided a high strength growing medium suitable for large street trees, while providing an engineered surface suitable for paving. The material is a mix of course blue metal aggregate, and sandy loam textured soil - Aquamor™ Soil Blend. Once compacted, structural soil is matrix supported, preventing further compaction within the pore spaces ensuring soils remains loose and friable. This allows for tree roots to easily penetrate and minimises ground heaving. Plant available water, drainage and organic matter content are carefully specified to maintain water and nutrient holding capacity within the soil.

- High strength growing medium suitable for large street trees.
- High quality engineering surface suitable for paving.
- Allow for canopy development.
- Resist ground heaving.
- Does not restrict root growth.





LOCAL CASE STUDY: Lake Street, Cannington



LOCAL CASE STUDY: Lake Street, Cannington





