St Catherine's School Waverley

Research, Performing Arts and Aquatic Centre

in support of Planning Application

15 July 2014

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1 DESIGN REPORT

Landscape Design Statement

1.1 Introduction

Silk Consulting Landscape Architects has been commissioned by St Catherine's School Waverley, to assist with the preparation of an Environmental Impact Statement (EIS) to accompany a Development Application (DA) for the school which is located at 26 Albion Street, Waverley (the site).

The DA seeks concept approval for the school's Campus Master Plan and detailed design approval of the proposed Stage 1 works which comprise of a new Research, Performing Arts and Aquatic Centre (RPAC).

This report has been prepared to address the landscape component of Key Issue No. 3 Built Form and Urban Design (refer below) as stated in the Director General's Environmental Assessment Requirements (DGRs) issued on 29 January 2014 (SSD 6339).

• Establish appropriate development controls for open spaces and tree planting masterplan

Campus Master Plan

The proposed Campus Master Plan comprises a number of new buildings, internal refurbishments and the reallocation of some internal spaces across the site. The primary new buildings (and associated demolition works) include:

- Demolition of the existing outdoor swimming pool and construction of a new multi-level building (RPAC). The core facilities proposed within the RPAC include a new Research Centre, Performing Arts Auditorium, Aquatic Centre and Multi-Purpose Hall, with pedestrian links to the existing Dame Joan Sutherland Centre (DJSC) and Jo Karaolis Sports Centre (JKSC).
- Demolition of the existing Jane Barker Hall (JBH) and construction of a new building.
- Demolition of the existing print room, reception and link building between Lenthall and the Administration Building (Level 6) and construction of new boarder's common room.

School Landscape and Grounds

As is common in an old school, the campus of St Catherine's is made up of buildings of different ages that have been designed and underpinned by different educational philosophies. The buildings are also a legacy of individual principals and leaders and as such are a museum of the history of the School. Ideally what binds this "museum" into a coherent whole is the landscape and grounds. At St Catherine's, the campus has been incrementally added to and the current layout has buildings around the periphery of the site that activate two large gathering and sporting spaces in the centre of the campus. Although there are many small garden and landscape spaces associated with individual buildings, it is these large grade separated spaces that occupy the centre and heart of the School. However, the lower quadrangle and sports field, whilst spatially bound on three sides by the Jo Karaolis Sports Centre, the Administration building and the Dame Joan Sutherland Centre tends to bleed away to the eastern edge of the campus, dissipating the energy that is otherwise contained within the School. One of the outcomes for the RPAC development is the completion of this quadrangle.

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There are a number of large, old trees on the campus, including Moreton Bay Figs on Albion Street, Port Jackson Figs in the upper courtyard and a large Magnolia grandiflora to the south of the lower quadrangle. The Magnolia is mature and has been part of the School for more than 100 years. Its historical significance makes it iconic to the School and valued by students, staff and the School Board.

1.2 Design Description

The Stage 1 RPAC development completes the eastern edge of the campus by defining the fourth side of the quadrangle. It also provides the Magnolia with a setting that increases its prominence and provides students with an opportunity to experience the tree through the creation of a new passive recreation and outdoor learning space.

The architecture of the RPAC building includes a new covered outdoor space that will be a flexible space able to accommodate emergency and delivery vehicles as well as be a light and airy space to be occupied by students. The Leichhardt Lane boundary will be planted to create a green outlook to the undercroft and a large planter with shade tolerant climbers will be located on the southern side so that the RPAC wall will appear green when viewed from the Research Centre.

In a future stage, the upper playground will be rebuilt incorporating the slope and universal access into its design. During the RPAC stage the upper playground and existing ramp access will remain.

The area around the Magnolia tree is currently under-utilised. It forms part of an egress from the Dame Joan Sutherland Centre and the arborist has suggested that the tree would benefit from reducing foot traffic over the root system. The proposal is to regrade the slope above the retaining wall and to place a floating timber deck over the area adjacent to the tree. This will provide a new informal sitting place that could be used for outdoor learning as well as the opportunity for students to get close to the iconic tree, but will also allow the root system to be free of foot traffic. The wall between the RPAC and this area will be a green wall with small planters built into the wall.

The RPAC building will be set back from the eastern boundary by 4m. This deep soil setback is bound by the RPAC building on its western side and by retaining walls that support the driveway to 4 Macpherson Street. The microclimate and physical space of this shaded setback is reminiscent of a Sydney sandstone gully such as the gullies behind Bronte and Tamarama Beaches. Sydney sandstone gullies tend to be steeply graded with deep soil formed by the accumulation of sediment. Owing to this richer soil, they often support an unusually lush vegetation of Figs and Livistona palms. Reminiscent of a Sydney sandstone gully, the setback will be planted with Livistona palms sourced under licence from OEH as well as shade and salt tolerant groundcovers that will cascade over the retaining walls. The upper part of the façade will be articulated with a planting of Solandra maxima that will grow from a 1m deep planter box and climb up stainless steel wires and will be planted with salt tolerant cascading plants. The climber planting and palms will create the impression of a green façade and will provide the residents of 4 Macpherson Street with a green outlook that will complement the RPAC building.

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1.3 Tree Management

There are a number of trees that are located within the building footprint that will need to be removed. Whilst most of these are Camphor Laurels, there are two large Port Jackson Figs that will be removed. These trees are the subject of an arboricultural report that suggests that the trees cannot be transplanted (due to either their health or inherent structural problems). A Picconia excelsa also needs to be removed as it sits within the building footprint. This tree will be propagated from cuttings taken by the arborist and a minimum of two trees will be planted on the campus.

To facilitate a safe construction of the proposed RPAC building, four existing Macpherson Street trees need to be removed. These trees are a mix of Melaleuca quinquenervia and M. leucadendron of various ages and forms. The trees will be replaced with the same species (unless Council require a change) and will be sourced from a nursery that grows trees in compliance with Natspec's Tree Quality and Procurement Specification. Details of the street tree pits will be coordinated with Council.

Trees to be retained include the Magnolia grandiflora, Araucaria columnaris and Ficus rubiginosa. Tree protection measures as per AS4970: Protection of Trees on Development Sites will be implemented throughout the construction period and the trees shall be monitored as per the arborist's recommendations.

Refer to TALC Arboricultural Assessment Report for details on the various trees.

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2 SCHEDULES

2.1 Indicative Plant Schedule

Note: this plant schedule is intended as a guide to the desired character of the plant materials. Actual species will be dependent on availability.

				I
TREES	1	ı	Mature	Mature
Species	Common Name	Family	Height	Spread
Cupaniopsis anacardioides	Tuckeroo	Sapindaceae	6.0m	8.0m
Elaeocarpus 'Eumundii'	Eumundii Ash	Elaeocarpaceae	12.0m	4.0m
Lagerstromia indica 'Tuscarora'	Pink Crepe Myrtle	Lythraceae	6.0m	4.0m
Livistona australis	Cabbage Palm	Arecaceae	12.0m	4.0m
Melaleuca leucadendra	Cajuput	Myrtaceae	12.0m	6.0m
Melaleuca quinquenervia	Paperbark	Myrtaceae	12.0m	6.0m
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SHRUBS		1	Mature	Mature
Species	Common Name	Family	Height	Spread
Abutilon x hybridum	Chinese Lantern	Malvaceae	3.0m	1.5m
Ardisia crispa	Coral Beauty	Myrsinaceae	1.2m	1.5m
Fuschia 'Thalia'	Shrub Fuschia	Onagraceae	750mm	500mm
Hydrangea macrophylla	Hydrangea	Hydrangeaceae	1.5m	1.5m
Rhododendron vireya	Vireya Rhododendron	Ericaceae	1.5m	1.5m
Syzygium 'Select Form'	Dwarf Lilly Pilly	Myrtaceae	3.0m	1.5m
Westringia fruticosa	Coastal Rosemary	Lamiaceae	1.5m	1.5m
				ı
PERENNIALS & GROUND COVERS	1	1	Mature	Mature
Species	Common Name	Family	Height	Spread
Acanthus mollis	Oyster Plant	Acanthaceae	400mm	400mm
Agave attenuatum	Agave	Asparagaceae	700mm	500mm
Ajuga reptans 'Caitlin's Giant'	Giant Bugle	Lamiaceae	150mm	Indefinite
Anemone x hybrida	Japanese Windflowers	Ranunculaceae	500mm	300mm
Arthropodium cirratum	Renga Renga Lily	Asparagaceae	400mm	400mm
Aspidistra elatior	Cast Iron Plant	Asparagaceae	500mm	500mm
Aucuba japonica	Aucuba	Garryaceae	1.5m	1.5m
Banksia 'Birthday Candles'	Groundcover Banksia	Proteaceae	200mm	500mm
Carpobrotus glaucescens	Native Pig Face	Aizoaceae	150mm	Indefinite
Clivia miniata	Kaffir Lily	Amaryllidaceae	500mm	500mm
Colocasia esculenta 'Black Magic'	Black-leafed Taro	Aracaceae	750mm	400mm
Cordyline australis 'Purpurea'	Cabbage Tree	Asparagaceae	4.0m	2.0m
Crinum pendunculatum	Swamp Lily	Amaryllidaceae	1.0m	1.0m
Dianella caerulea	Blue Flax Lily	Phormiaceae	400mm	500mm
Doryanthes excelsa	Gymea Lily	Doryanthaceae	1.2m	1.2m
Fatsia japonica	Japanese Aralia	Araceae	1.5m	1.0m
Hemerocallis sp. Orange	Daylily	Xanthorrhoeaceae	500mm	500mm
Hemerocallis sp. Yellow	Daylily	Xanthorrhoeaceae	500mm	500mm
Heuchera 'Palace Purple'	Purple Heuchera	Saxifragaceae	200mm	300mm
Hymenocallis speciosa	Spider Lily	Amaryllidaceae	600mm	500mm
Juniperus conferta	Shore Juniper	Cupressaceae	150mm	Indefinite

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Myoporum parvifolium	Creeping Boobialla	Scrophulariaceae	150mm	Indefinite
Philodendron 'Xanadu'	Xanadu	Aracaceae	450mm	450mm
Phormium 'Bronze Baby'	Dwarf Bronze Flax	Xanthorrhoeaceae	400mm	400mm
Phormium cookianum	N.Z. Flax	Xanthorrhoeaceae	1.0m	900mm
Pollia crispata	Pollia	Commelinaceae	300mm	Indefinite
Trachelospermum asiaticum	Prostrate Star Jasmine	Apocynaneae	150mm	Indefinite
Viola hederacea	Native Violet	Violaceae	100mm	Indefinite
CLIMBERS			Mature	Mature
Species	Common Name	Family	Height	Spread
Hibbertia scandens	Guinea Flower	Dilleniaceae	4.0m	2.0m
Pandorea jasminoides 'Lady Di'	White Bower Climber	Bignoniaceae	3.0m	2.0m
Pandorea pandorana	Snowbells	Bignoniaceae	3.0m	2.0m
Solandra maxima	Cup and Saucer Vine	Solanaceae	8.0m	6.0m
			•	•
FERNS			Mature	Mature
Species	Common Name	Family	Height	Spread
Asplenium australasicum	Bird's Nest Fern	Aspleniaceae	1.0m	1.0m
Blechnum 'Silver Lady'	Silver Fern	Blechnaceae	1.0m	1.0m
	•	•	•	•

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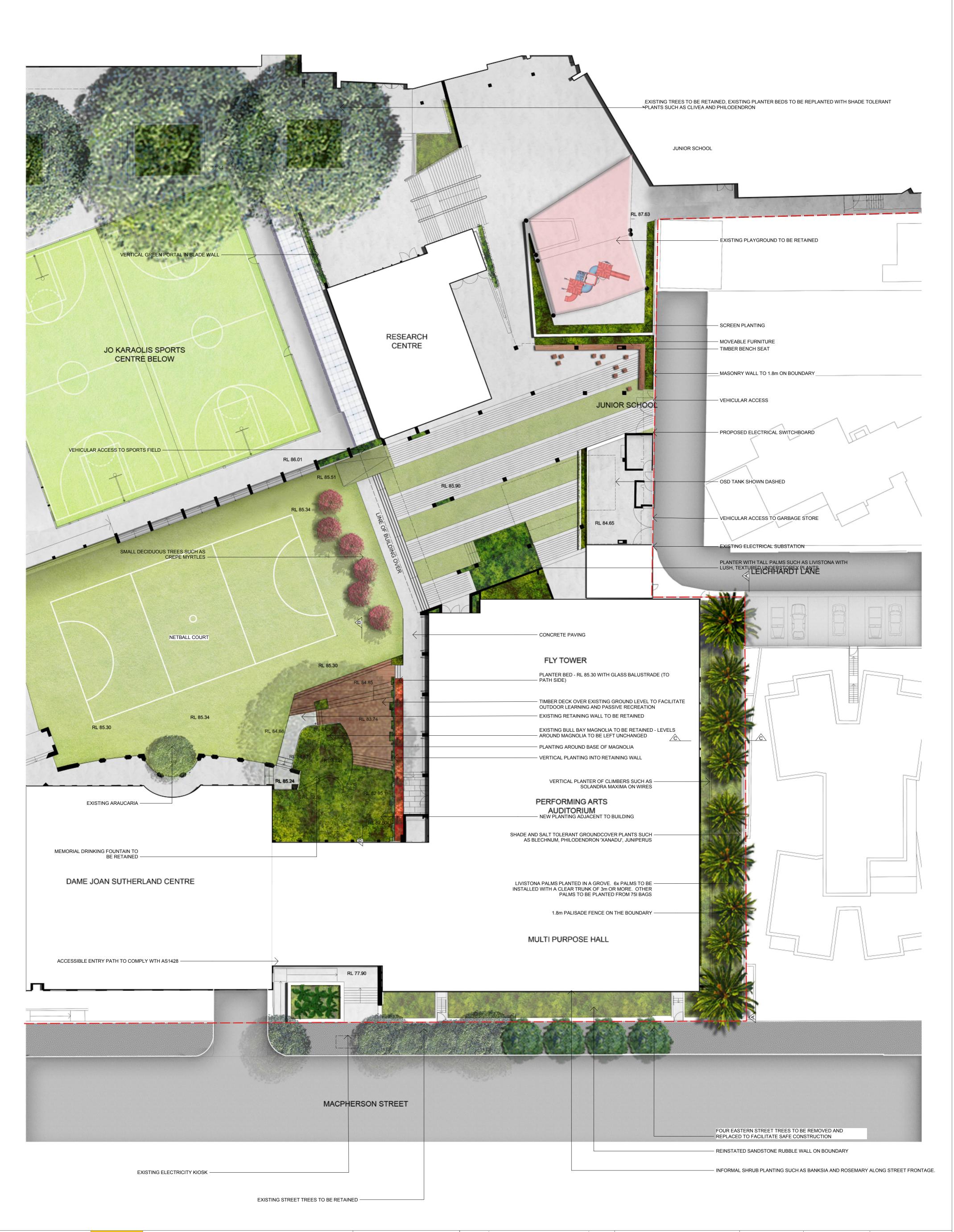
St Catherine's School 26 Albion Street Waverley

St Catherine's School Master Plan and RPAC Project

	DATE	DESCRIPTION	REV	DATE	DESCRIPTION	REV
	20.05.14	FOR REVIEW	А	26.06.14	PLANNING APPLICATION	D
	05.06.14	DRAFT PLANNING APPLICATION	В	15.07.14	PLANNING APPLICATION	Е
	23.06.14	PLANNING APPLICATION	С	14.08.14	PLANNING APPLICATION	F
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LANDSCAPE MASTER PLAN

NORTH	SCALE1:500	@ A1	DRAWN	AJG	DRAWING NUMBER
	JOB NO.	37	CHECKED	CS	
			DATE	14.08.14	MP-100



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LANDSCAPE ARCHITECT



ARCHITECT



St Catherine's School
Masterplan and RPAC Projec

26 Albion Street Waverley

DATE	DESCRIPTION	REV
19.05.14	CO-ORDINATION	Α
26.05.14	DEVELOPMENT APPLICATION	В
26.06.14	DEVELOPMENT APPLICATION	С
18.08.14	DEVELOPMENT APPLICATION	D
19.08.14	DEVELOPMENT APPLICATION	E

DEVELOPMENT APPLICATION
LANDSCAPE PLAN

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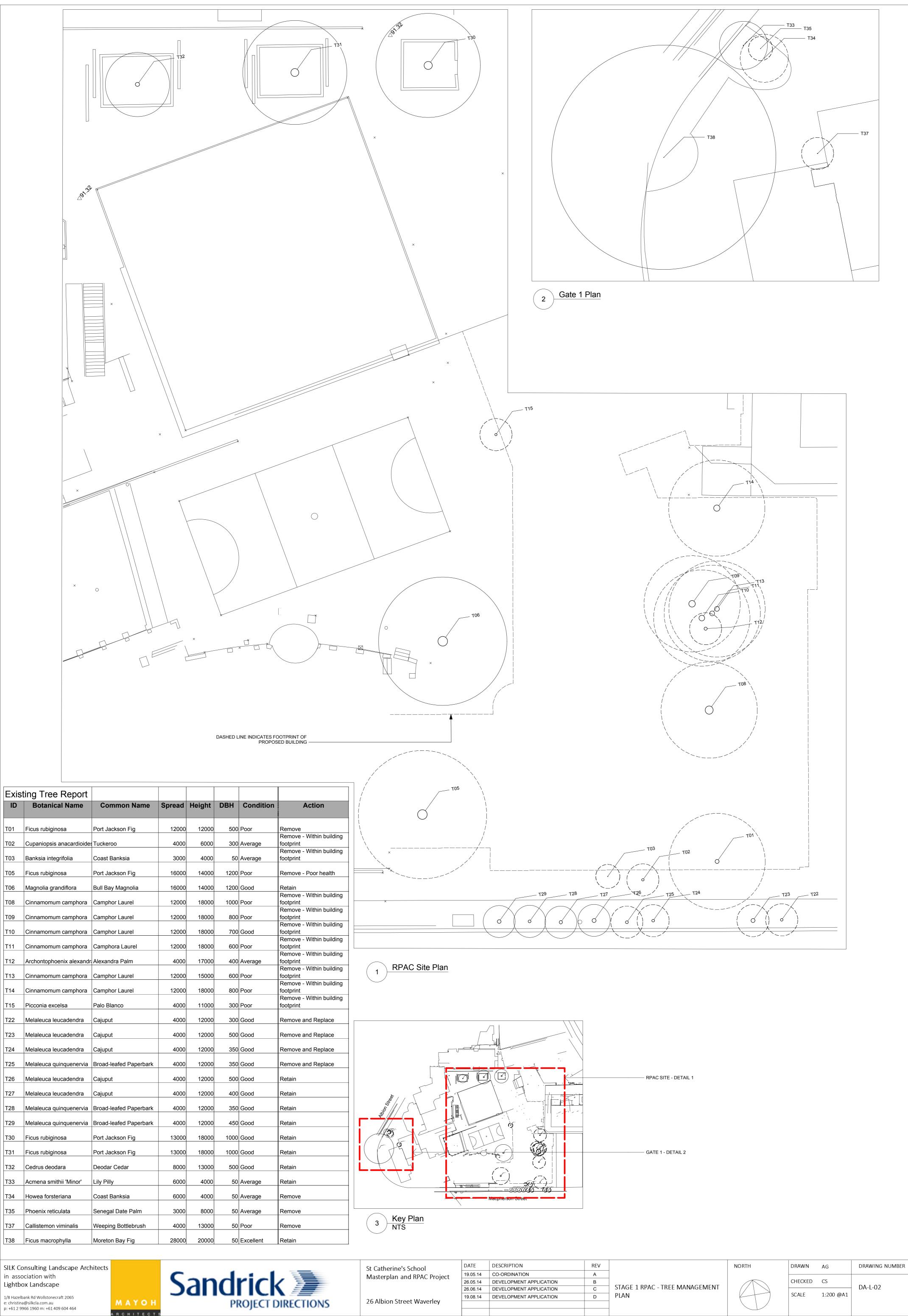
PROJECT MANAGER

PROJECT

REVISIONS

DRAWING TITLE

DRAWING INFORMATION

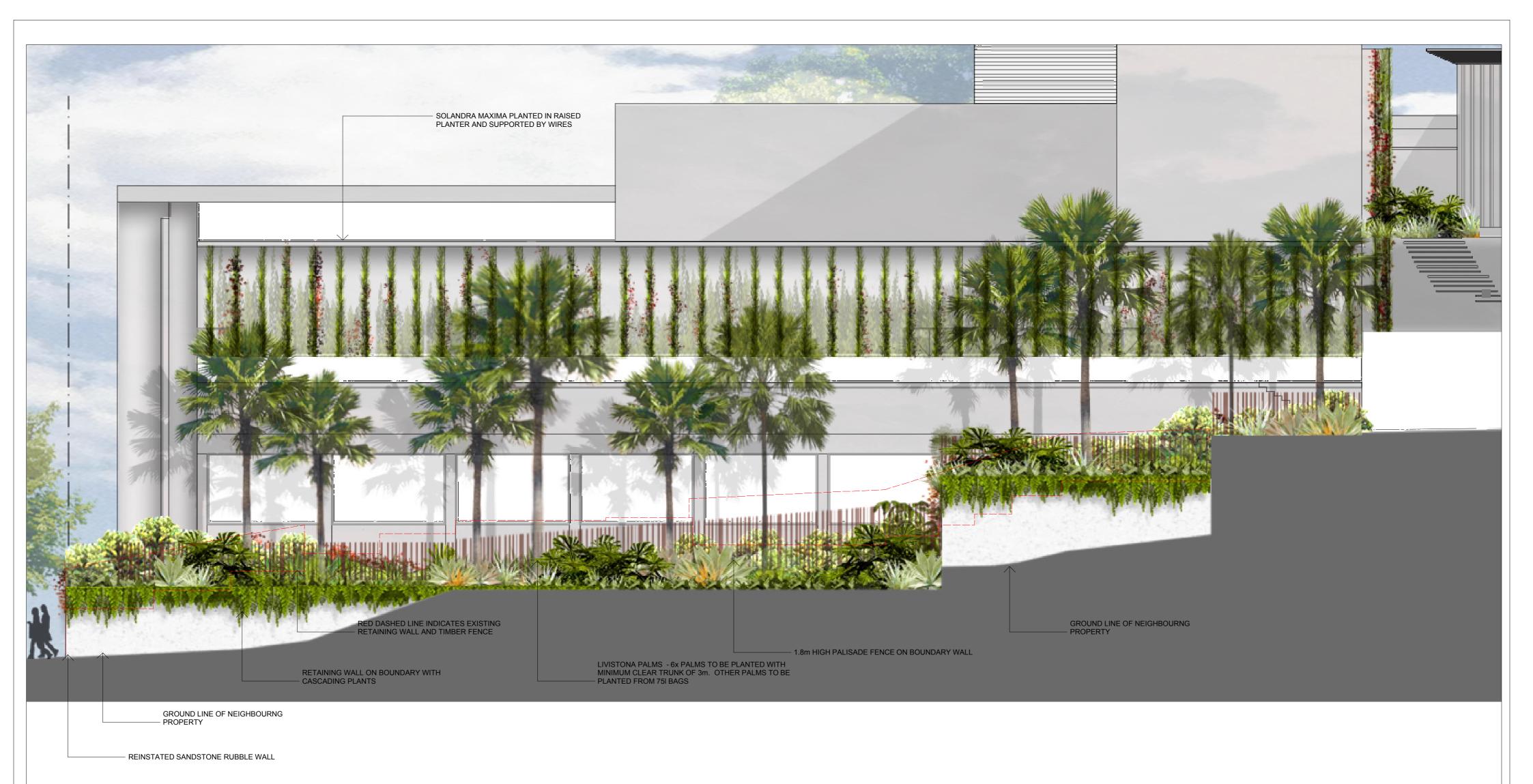


LANDSCAPE ARCHITECT

ARCHITECT PROJECT MANAGER

REVISIONS DRAWING TITLE DRAWING INFORMATION

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SECTION A SCALE 1:100





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CLIMPEDS	'	•	!!!	
CLIMBERS Species	Common Name	Family	Mature Height	Mature Spread
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TREES







Lagerstroemia indica 'Tuscarora'

FERNS AND GROUNDCOVERS



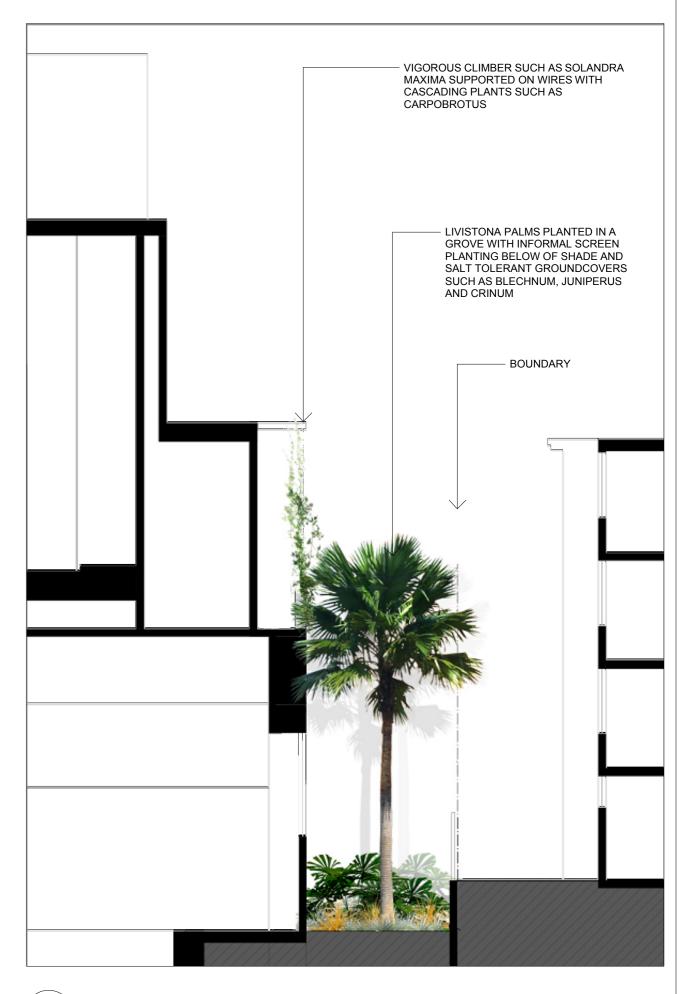
Asplenium australasicum



Crinum pedunculatum



Hymenocallis speciosa



SECTION C SCALE 1:100

CLIMBER



Solandra maxima

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LANDSCAPE ARCHITECT



St Catherine's School
Masterplan and RPAC Project

26 Albion Street Waverley

School	DATE	DESCRIPTION	F
d RPAC Project	26.05.14	DEVELOPMENT APPLICATION	
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DEVELOPMENT APPLICATION
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ARCHITECT

PROJECT MANAGER

PROJECT

REVISIONS

DRAWING TITLE

DRAWING INFORMATION