

# Pittwater House SCHOOLS

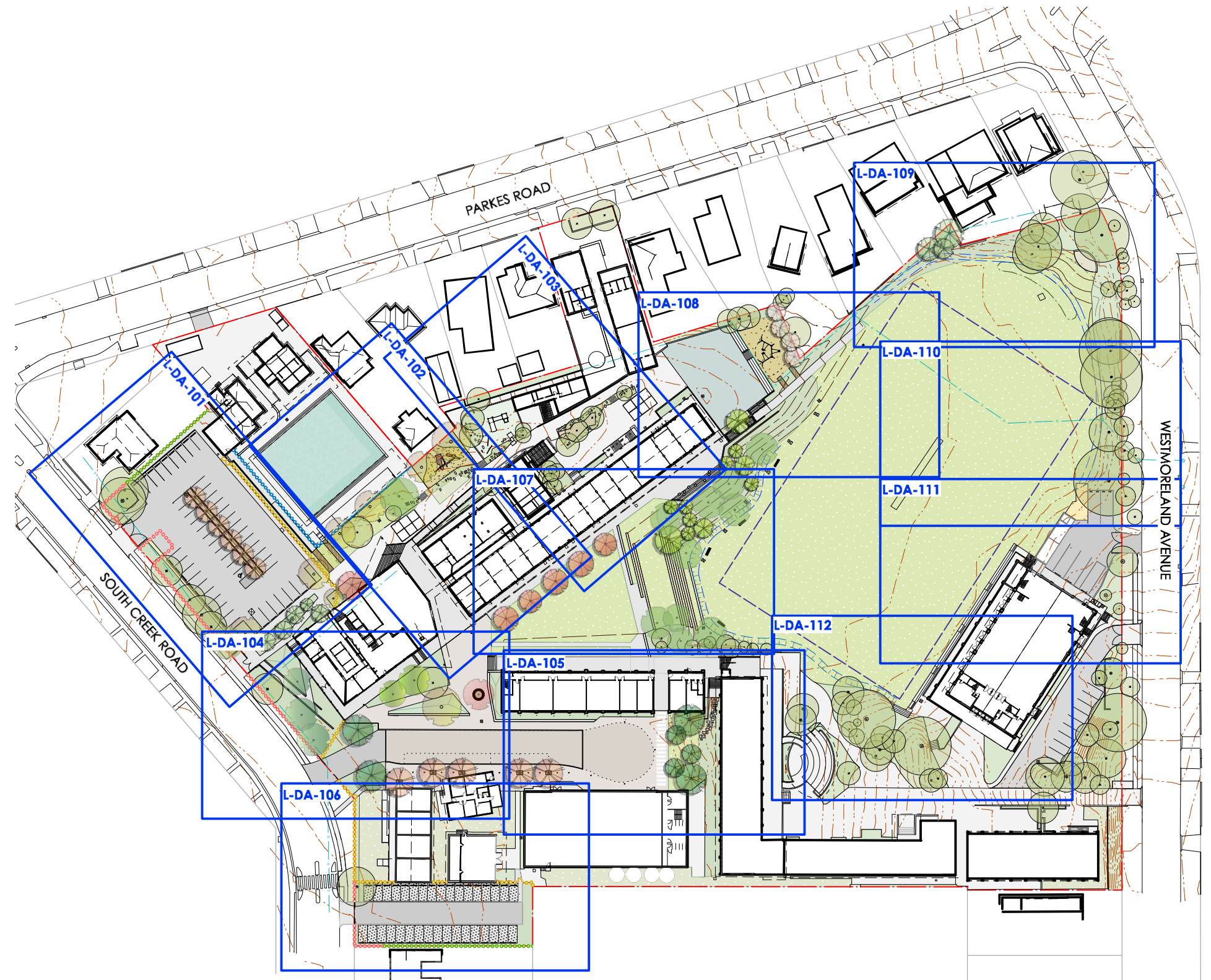
Development Application

## LANDSCAPE

Prepared for Pittwater House by  
**Jane Irwin Landscape Architecture**

### DRAWING SHEETS:

L-DA-000	COVERSHEET
L-DA-001	LEGEND AND SCHEDULE
L-DA-002	LEGEND AND PLANT SCHEDULE
L-DA-003	LANDSCAPE MASTERPLAN
L-DA-011	PRECEDENT 01
L-DA-012	PRECEDENT 02
L-DA-013	PRECEDENT 03
L-DA-101	LANDSCAPE DETAIL PLAN 01
L-DA-102	LANDSCAPE DETAIL PLAN 02
L-DA-103	LANDSCAPE DETAIL PLAN 03
L-DA-104	LANDSCAPE DETAIL PLAN 04
L-DA-105	LANDSCAPE DETAIL PLAN 05
L-DA-106	LANDSCAPE DETAIL PLAN 06
L-DA-107	LANDSCAPE DETAIL PLAN 07
L-DA-108	LANDSCAPE DETAIL PLAN 08
L-DA-109	LANDSCAPE DETAIL PLAN 09
L-DA-110	LANDSCAPE DETAIL PLAN 10
L-DA-111	LANDSCAPE DETAIL PLAN 11
L-DA-112	LANDSCAPE DETAIL PLAN 12
L-DA-500	SECTION LOCATION PLAN
L-DA-501	LANDSCAPE SECTIONS 01
L-DA-502	LANDSCAPE SECTIONS / ELEVATION 02
L-DA-503	LANDSCAPE SECTIONS / ELEVATION 03
L-DA-504	LANDSCAPE SECTIONS 04
L-DA-505	LANDSCAPE SECTIONS 05
L-DA-506	LANDSCAPE SECTIONS 06
L-DA-507	LANDSCAPE SECTIONS 07



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Neeson Murcutt Architects PTY  
LTD

PROJECT TITLE

Pittwater House Schools - Stage 1

70 South Creek  
Road, Collaroy  
NSW 2097

DRAWING TITLE  
Coversheet

Scale @ A3  
1:1200

Job No  
190601

Drawing Status  
Development Application

Drawing No  
L-DA-000

Issue  
A

# LEGEND

REFERENCE	CODE	DESCRIPTION
<b>GENERAL</b>		
		SITE BOUNDARY
		EXISTING CONTOUR
		PROPOSED CONTOUR
		EXISTING SPOT LEVEL
		PROPOSED SPOT LEVEL
		EXISTING TREES RETAINED (Refer arborist report)
		EXISTING TREES TO BE REMOVED (Refer arborist report)
		DEMOLISH SURFACE
		OVAL BOUNDARY
		EXISTING POOL FENCE
		SWALE
		BERM AROUND OVAL 500-800mm above existing ground level, refer Hydraulic Engineer's drawing
		EXISTING PAVED SURFACE to be retained
		EXISTING BITUMEN SURFACE to be retained
		EXISTING GRAVEL SURFACE to be retained
		EXISTING DECKING to be retained
		EXISTING PLANTED AREA to be retained
		EXISTING DRY CREEK to be retained
		EXISTING NATURE SURFACE to be retained

REFERENCE	CODE	DESCRIPTION
<b>GENERAL</b>		
		SUBSTATION Refer Electrical Engineer's drawings
		NEW FIRE HYDRANT BOOSTER L:3500 x W:500mm, Refer Hydraulic Engineer's drawing
		NEW DUAL HEAD FIRE HYDRANT 700x700mm, Refer Hydraulic Engineer's drawing
<b>WALLS, FENCES AND EDGES</b>		
	<b>W1</b>	WALL TYPE 1 - CONCRETE TERRACE/SEATING WALLS Precast concrete plain colour
	<b>W2</b>	WALL TYPE 2 - SANDSTONE RETAINING WALL Using sandstone "landscape logs", quality grade 1
	<b>FT1</b>	FENCE TYPE 1 - METAL PALISADE FENCE 1200mm high metal palisade pool fence to A.S 1926.1-2012
	<b>FT2</b>	FENCE TYPE 2 - GALVANISED FENCE 1800mm high galvanised school fence
	<b>FT3</b>	FENCE TYPE 3 - GALVANISED PALISADE FENCE 1200mm high galvanised palisade school fence
	<b>FT4</b>	FENCE TYPE 4 - PALING FENCE 1800mm high noise barrier to comply with acoustic req.
	<b>SE</b>	EDGE TYPE 1 - STEEL

REFERENCE	CODE	DESCRIPTION
<b>CARPARK/SURFACE FINISHES</b>		
	<b>R1</b>	CARPARK SURFACE - BITUMEN
<b>PAVING/SURFACE FINISHES</b>		
	<b>P1</b>	PAVING TYPE 1 - INSITU CONCRETE Broom finish, plain colour
	<b>P2</b>	PAVING TYPE 2 - INSITU CONCRETE FLUSH KERB/EDGE Broom finish, plain colour
	<b>P3</b>	PAVING TYPE 3 - POROUS PAVING (CARPARK) Grasscrete with gravel infill
	<b>P4</b>	PAVING TYPE 4 - CONCRETE UNIT PAVER Pebblecrete PPX540:35D - 400x600x60mm
	<b>P5</b>	PAVING TYPE 5 - CONCRETE UNIT PAVER (TRAFFICABLE) Pebblecrete PPX540:35D - 200x600x80mm

REFERENCE	CODE	DESCRIPTION
<b>PAVING/SURFACE FINISHES</b>		
	<b>P6</b>	PAVING TYPE 6 - GRAVEL Recycled crushed sandstone
	<b>P7</b>	PAVING TYPE 7 - MIXED USE COURT Synthetic surface with multiple lineworking for multi-funition play
	<b>P8</b>	PAVING TYPE 8 - SYNTHETIC GRASS "Astroturf" or similar, natural green colour
	<b>P9</b>	PAVING TYPE 9 - MULCH (PLAYGROUND) Cedar mulch to depths required for full zones
<b>OTHER</b>		
	<b>TD</b>	HARDWOOD TIMBER DECKING bridges
	<b>TB</b>	TIMBER BENCH SEAT
	<b>WS</b>	WHEEL STOPS
	<b>BO</b>	BOLLARD
	<b>NP</b>	NATURE PLAY ITEMS

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Neeson Murcutt Architects PTY LTD

PROJECT TITLE

Pittwater House Schools - Stage 1

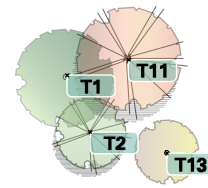
70 South Creek Road, Collaroy NSW 2097

DRAWING TITLE	
Legend and Schedule	
Scale @ A3	
N/A	
Job No	Drawing Status
190601	Development Application
Drawing No	Issue
L-DA-001	A

**LEGEND**

REFERENCE CODE DESCRIPTION

**PLANTING**



PROPOSED TREES - VARIOUS  
Refer plant schedule



TURF



SCREENING - TALL SHRUBS AND SMALL TREES  
Refer plant schedule



LOW TO MEDIUM NATIVE SHRUBS  
Refer plant schedule



GROUNDCOVER AND GRASSY MIX - BANK  
Refer plant schedule



ENTRY GARDEN  
Refer plant schedule



SWALE / DRY CREEK BEDS  
Refer plant schedule

**PRELIMINARY PLANT SCHEDULE**

CODE	BOTANICAL NAME	COMMON NAME	MATURE HEIGHT (m)	LOCALLY OCCURRING
	<b>Trees</b>			
T1	<i>Angophora costata</i>	Rough Barked Apple	20+	x
T2	<i>Callicoma serratifolia</i>	Black Wattle	7-10	x
T3	<i>Calodendrum capense</i>	Cape Chestnut	10	
T4	<i>Corymbia citriodora</i>	Lemon Scented Gum	20+	
T5	<i>Corymbia maculata</i>	Spotted Gum	20+	x
T6	<i>Eucalyptus haemastoma</i>	Scribbly Gum	15	
T7	<i>Eucalyptus punctata</i>	Grey Gum	20+	x
T8	<i>Lagerstroemia indica</i> (Indian Summer range)	Crepe Myrtle	8-9	
T9	<i>Magnolia grandiflora</i>	Bull Bay Magnolia	25	
T10	<i>Melaleuca ericifolia</i>	Swamp Paperbark	8	x
T11	<i>Nyssa sylvatica</i>	Tupelo	11	
T12	<i>Sapium sebiferum</i>	Chinese Tallowood	8	
T13	<i>Tristaniopsis laurina</i>	Water Gum	12	x
	<b>GD1 Screening - tall shrubs and small trees</b>			
	<i>Acacia terminalis</i>	Sunshine Wattle	5-6	x
	<i>Banksia robur</i>	Swamp Banksia	3	x
	<i>Bursaria spinosa</i>	Austral Blackthorn	5-10	x
	<i>Ceratopetalum gummiferum</i>	NSW Christmas Bush	3-5	x
	<i>Dodonaea viscosa subsp. cuneata</i>	Hop Bush	3	x
	<i>Persoonia levis</i>	Broad Leaved Geebung	4-5	x
	<b>GD2 Low to medium native shrubs</b>			
	<i>Banksia spinulosa</i>	Hairpin Banksia	1-3	x
	<i>Grevillea buxifolia</i>	Grey Spider Flower	1-2.5	x
	<i>Grevillea sericea</i>	Pink Spider Flower	1-2	x
	<i>Lomatia myricoides</i>	River Lomatia	2.5	x
	<i>Melaleuca thymifolia</i>	Thyme Honey Myrtle	1.2	x
	<i>Philothea myoporoides</i>	Long Leaf Waxflower	1.5-2	
	<i>Prostanthera denticulata</i>	Rough Mint Bush	1	x
	<b>GD3 Groundcover and grassy mix - banks</b>			
	<i>Banksia 'Pygmy Possum'</i>	Dwarf Banksia	0.3	
	<i>Dianella caerulea</i>	Blue Flax Lily	0.7	x
	<i>Eremophila 'Kalbarri Carpet'</i>	Prostrate Emu Bush	0.1-0.2	
	<i>Geranium solanderi</i>	Native Geranium	0.2	x
	<i>Goodenia heterophylla</i>	Variable Leaved Goodenia	0.4	x
	<i>Grevillea lanigera</i>	Woolly Grevillea	0.5-1	
	<i>Lomandra longifolia</i>	Mat Rush	0.5-0.8	x
	<i>Scaevola albida</i>	White Fan-flower	Prostrate	x
	<i>Scaevola ramosissima</i>	Purple Fan Flower	0.4	x
	<i>Thryptomene baeckeacea 'Prostrate'</i>	Ground Cover Thryptomene	Prostrate	
	<b>GD4 Entry garden</b>			
	<i>Anigozanthos spp.</i>	Kangaroo Paws mixed colour	0.6-1	
	<i>Lomandra multiflora</i>	Many Flowered Mat Rush	0.6-0.9	x
	<i>Lomandra confertifolia 'Wingarra'</i>	Mat Rush	0.3	
	<i>Xanthorrhoea arborea</i>	Broad Leaf Grass Tree	2	x
	<b>GD5 Swale/dry creek bed</b>			
	<i>Ficinia nodosa</i>	Knobby Club Rush	0.5-0.6	x
	<i>Gahnia aspera</i>	Rough Saw Sedge	0.6-0.8	x
	<i>Lepidosperma laterale</i>	Variable Sword Sedge	0.6-1.2	x

**CALCULATION OF LANDSCAPE OPEN SPACE**

**CALCULATED AREA IN TOTAL (m2) : 16837.17m2**

**PAVED OPEN SPACE**

IMPERVIOUS SURFACE: 4732.03 m2

PERVIOUS SURFACE: 709.59 m2

**LANDSCAPE OPEN SPACE**

SOFTSCAPE: 11395.55 m2

NOTE: Planted and grassed deep soil area, excludes swimming pool

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PROJECT TITLE

Pittwater House Schools - Stage 1

70 South Creek Road, Collaroy NSW 2097

DRAWING TITLE

Legend and Plant Schedule

Scale @ A3  
N/A

Job No 190601 Drawing Status Development Application

Drawing No L-DA-002 Issue A

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By

Date

24/10/19

AH

ISSUED FOR DA

Description

Issue



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Issue	Description	Date	By
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PROJECT TITLE

**Pittwater House Schools - Stage 1**

70 South Creek Road, Collaroy NSW 2097

DRAWING TITLE

**Landscape Masterplan**


Scale @ A3  
 1:800

Job No  
 190601

Drawing Status  
 Development Application

Drawing No  
 L-DA-003

Issue  
 A



**DROP OFF/PICK UP AREA**



Share way to allow for use as paved open space outside of pickup and drop off hours.



Concrete cobble as robust and durable natural stone alternative

Flush kerbs and paved surface to prioritise pedestrian movement across the space

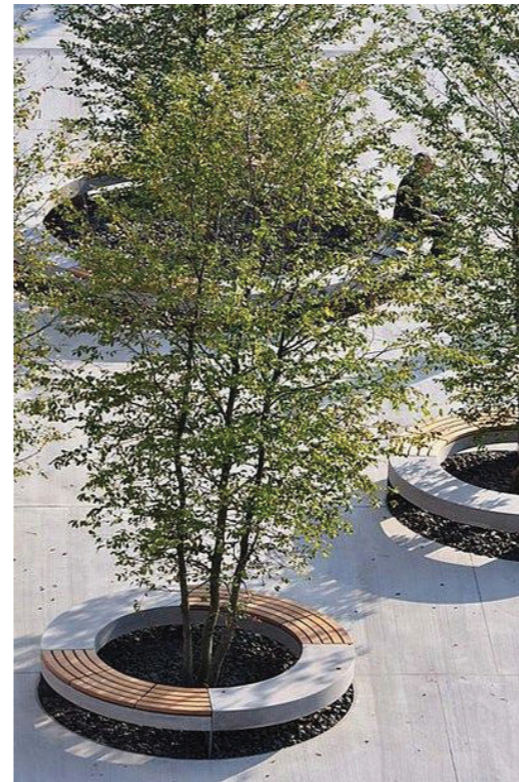
Mix of paving sizes and types

**NEW CAR PARK**



Permeable paving grasscrete for carpark

**MEMORIAL TREE**



Circular seating with tree as memorial

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PROJECT TITLE

Pittwater House Schools - Stage 1

70 South Creek Road, Collaroy NSW 2097

DRAWING TITLE  
Precedent 01

Scale @ A3  
N/A

Job No 190601	Drawing Status Development Application
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Drawing No L-DA-011	Issue A
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**AMPHITHEATRE**



Gentle grassed amphitheatre terraces

**OVAL AND SWALE**



Grass seating mound around school oval

Vegetated swale with some stones at the base to slow down the water

Reeds and grasses to fill out swale

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**Pittwater House Schools - Stage 1**

70 South Creek Road, Collaroy NSW 2097

DRAWING TITLE	
Precedent 02	
Scale @ A3	
N/A	
Job No	Drawing Status
190601	Development Application
Drawing No	Issue
L-DA-012	A

MIXED USE COURT



Mixed use court allowing for multiple different uses

MIXED USE COURT



Taking advantage of level change and topography for casual and dynamic seating

NATURE PLAY



Extended ECC playground provide nature play equipment

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PROJECT TITLE

Pittwater House Schools - Stage 1

70 South Creek Road, Collaroy NSW 2097

DRAWING TITLE

Precedent 03

Scale @ A3

N/A

Job No

190601

Drawing Status

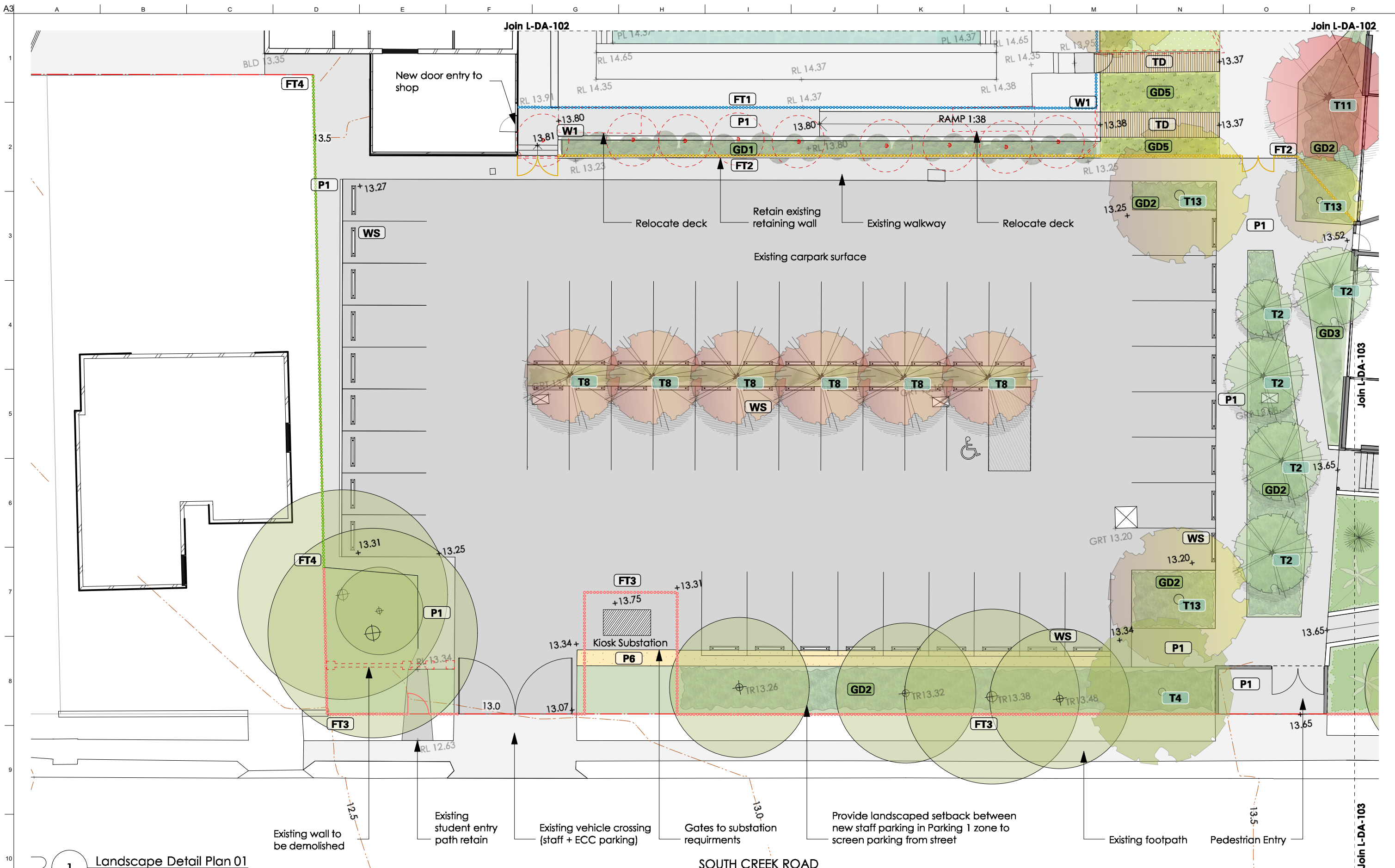
Development Application

Drawing No

L-DA-013

Issue

A



1 Landscape Detail Plan 01  
Scale: 1:200

SOUTH CREEK ROAD

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<p>Issue Description Date By</p> <p>A ISSUED FOR DA 24/10/19 AH</p>		<p>Copyright in all documents and drawings prepared by JILA and in any work executed from those documents and drawings shall remain the property of JILA or on creation vest in JILA.</p>	<p>LANDSCAPE ARCHITECT</p> <p><b>jane irwin landscape architecture</b></p> <p>Studio 203, Level 2, 61 Marlborough Street Sunny Hills NSW 2010 Telephone 61 2 9212 6957 Email info@jila.net.au Web www.jila.net.au</p> <p><b>jila</b></p>	<p>CLIENT</p> <p>Neeson Murcutt Architects PTY LTD</p>	<p>PROJECT TITLE</p> <p>Pittwater House Schools - Stage 1</p> <p>70 South Creek Road, Collaroy NSW 2097</p>	<p>DRAWING TITLE</p> <p>Landscape Detail Plan 01</p> <p>Scale @ A3 1:200</p> <p>Job No 190601</p> <p>Drawing Status Development Application</p> <p>Drawing No L-DA-101</p> <p>Issue A</p>
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2 Landscape Detail Plan 02  
Scale: 1:200

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Issue	Description
24/10/19	AH
Date	By
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PROJECT TITLE

Pittwater House Schools - Stage 1

70 South Creek Road, Collaroy NSW 2097

DRAWING TITLE

Landscape Detail Plan 02

Scale @ A3  
1:200

Job No  
190601

Drawing Status  
Development Application

Drawing No  
L-DA-102

Issue  
A



3 Landscape Detail Plan 03  
Scale: 1:200

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PROJECT TITLE  
Pittwater House Schools - Stage 1  
70 South Creek Road, Collaroy NSW 2097

ISSUED FOR DA	24/10/19	AH
Issue	Description	Date

DRAWING TITLE Landscape Detail Plan 03	
Scale @ A3 1:200	Drawing Status Development Application
Job No 190601	Drawing No L-DA-103
Issue A	



**4** Landscape Detail Plan 04  
Scale: 1:200

**NOT FOR CONSTRUCTION**

<ul style="list-style-type: none"> <li>- Dimension in millimetres.</li> <li>- Confirm all dimensions and levels on site prior to commencing work.</li> <li>- Use figured dimensions only.</li> <li>- Do not scale.</li> <li>- Comply with relevant authorities requirements, the Building Code of Australia and all relevant Australian Standards when executing works described in this drawing.</li> </ul>									
<table border="1"> <thead> <tr> <th>Issue</th> <th>Description</th> <th>Date</th> <th>By</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>ISSUED FOR DA</td> <td>24/10/19</td> <td>AH</td> </tr> </tbody> </table>	Issue	Description	Date	By	A	ISSUED FOR DA	24/10/19	AH	<p>Copyright in all documents and drawings prepared by JILA and in any work executed from those documents and drawings shall remain the property of JILA or on creation vest in JILA.</p>
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DRAWING TITLE

**Landscape Detail Plan 04**


Scale @ A3  
1:200

Job No  
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Drawing No  
L-DA-104

Issue  
A





5 LANDSCAPE DETAIL PLAN 05  
Scale: 1:200

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DRAWING TITLE

Landscape Detail Plan 05

Scale @ A3  
1:200

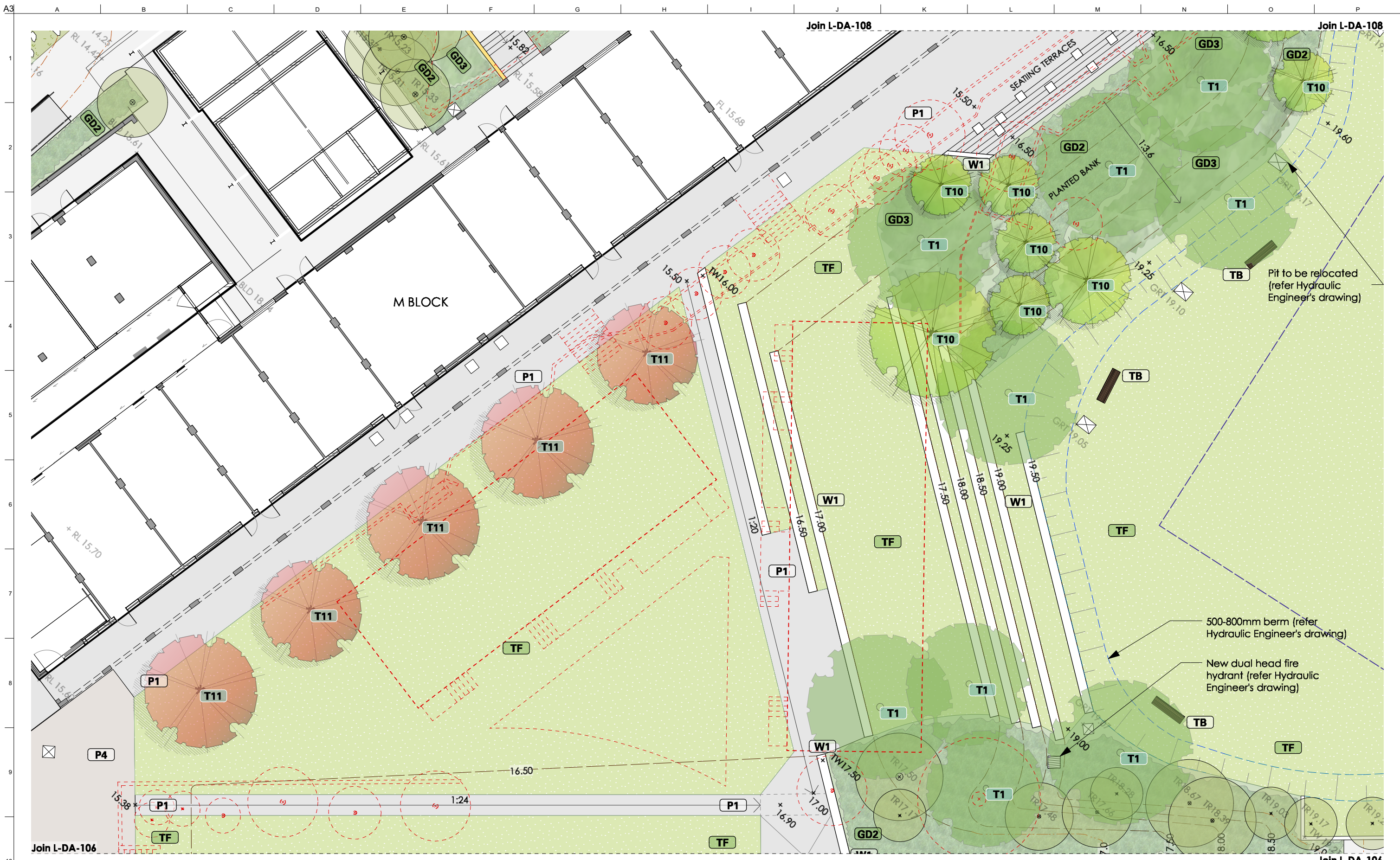
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L-DA-105

Issue  
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**7 LANDSCAPE DETAIL PLAN 07**  
Scale: 1:200

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CLIENT

**Neeson Murcutt Architects PTY LTD**

PROJECT TITLE

**Pittwater House Schools - Stage 1**

70 South Creek Road, Collaroy NSW 2097

DRAWING TITLE

**Landscape Detail Plan 07**

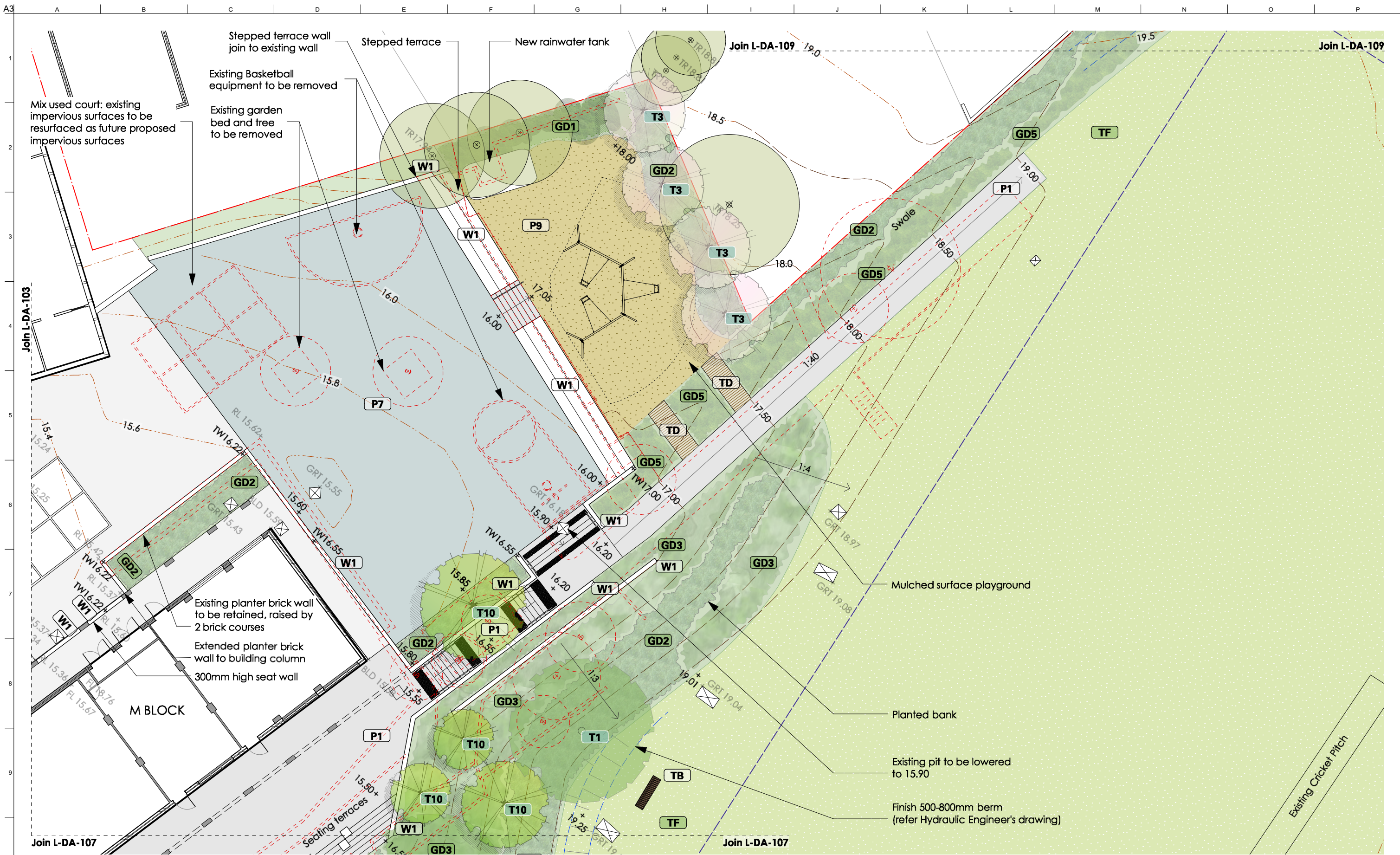
Scale @ A3  
1:200

Job No  
190601

Drawing Status  
Development Application

Drawing No  
L-DA-107

Issue  
A



8 LANDSCAPE DETAIL PLAN 08  
Scale: 1:200

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Issue	Description	Date	By

LANDSCAPE ARCHITECT

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**Neeson Murcutt Architects PTY LTD**

PROJECT TITLE

**Pittwater House Schools - Stage 1**

70 South Creek Road, Collaroy NSW 2097

DRAWING TITLE

**Landscape Detail Plan 08**

Scale @ A3  
1:200

Job No  
190601

Drawing Status  
Development Application

Drawing No  
L-DA-108

Issue  
A



**9** LANDSCAPE DETAIL PLAN 09  
Scale: 1:200

**NOT FOR CONSTRUCTION**

Issue	Description	Date	By
A	ISSUED FOR DA	24/10/19	AH

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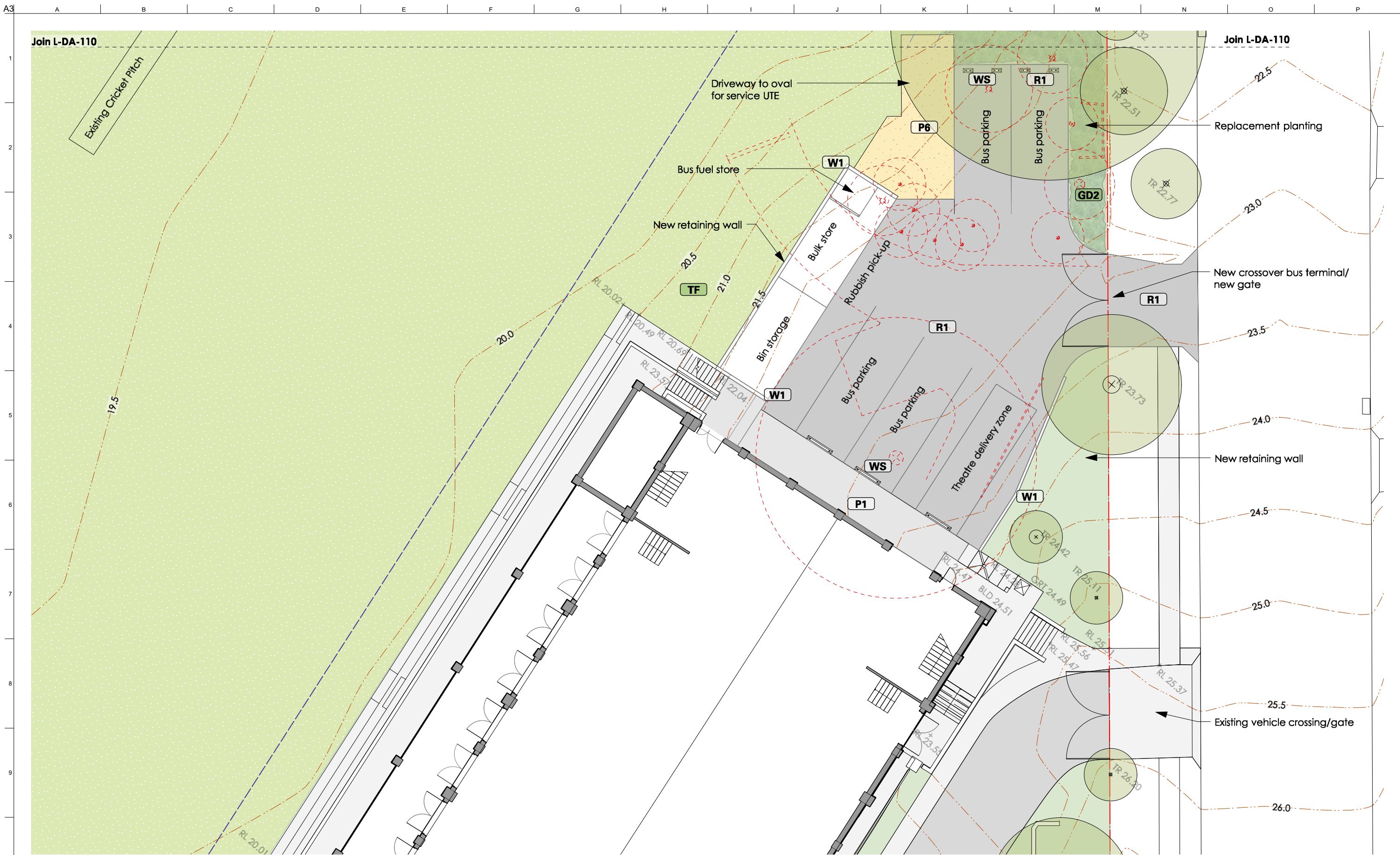
PROJECT TITLE  
 Pittwater House Schools - Stage 1  
 70 South Creek Road, Collaroy NSW 2097



DRAWING TITLE Landscape Detail Plan 09	
Scale @ A3 1:200	
Job No 190601	Drawing Status Development Application
Drawing No L-DA-109	Issue A







**11** LANDSCAPE DETAIL PLAN 11  
Scale: 1:200

**NOT FOR CONSTRUCTION**

Issue	Description	Date	By
A	ISSUED FOR DA	24/10/19	AH

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CLIENT

Neeson Murcutt Architects PTY LTD

PROJECT TITLE

Pittwater House Schools - Stage 1

70 South Creek Road, Collaroy NSW 2097

DRAWING TITLE

Landscape Detail Plan 11

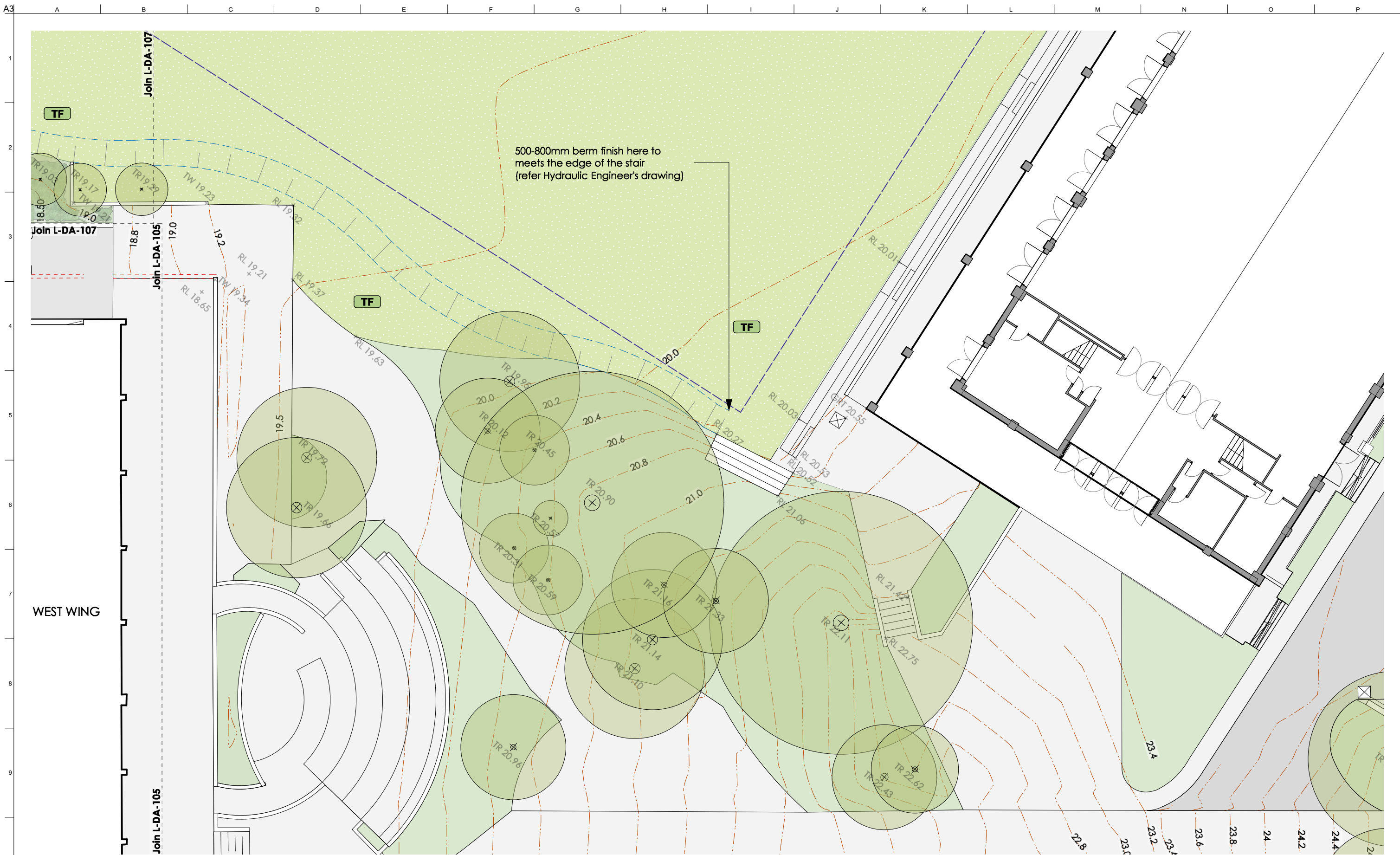
Scale @ A3  
1:200

Job No  
190601

Drawing Status  
Development Application

Drawing No  
L-DA-111

Issue  
A



**12** LANDSCAPE DETAIL PLAN 12  
Scale: 1:200

**NOT FOR CONSTRUCTION**

Issue	Description	Date	By
A	ISSUED FOR DA	24/10/19	AH

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CLIENT

**Neeson Murcutt Architects PTY LTD**

PROJECT TITLE

**Pittwater House Schools - Stage 1**

70 South Creek Road, Collaroy NSW 2097

DRAWING TITLE

**Landscape Detail Plan 12**


Scale @ A3  
1:200

Job No  
190601

Drawing Status  
Development Application

Drawing No  
L-DA-112

Issue  
A





**NOT FOR CONSTRUCTION**

Issue	Description	Date	By
A	ISSUED FOR DA	24/10/19	AH

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CLIENT

**Neeson Murcutt Architects PTY LTD**

PROJECT TITLE

**Pittwater House Schools - Stage 1**

70 South Creek Road, Collaroy NSW 2097

DRAWING TITLE

**Section Location Plan**

Scale @ A3  
 1:800

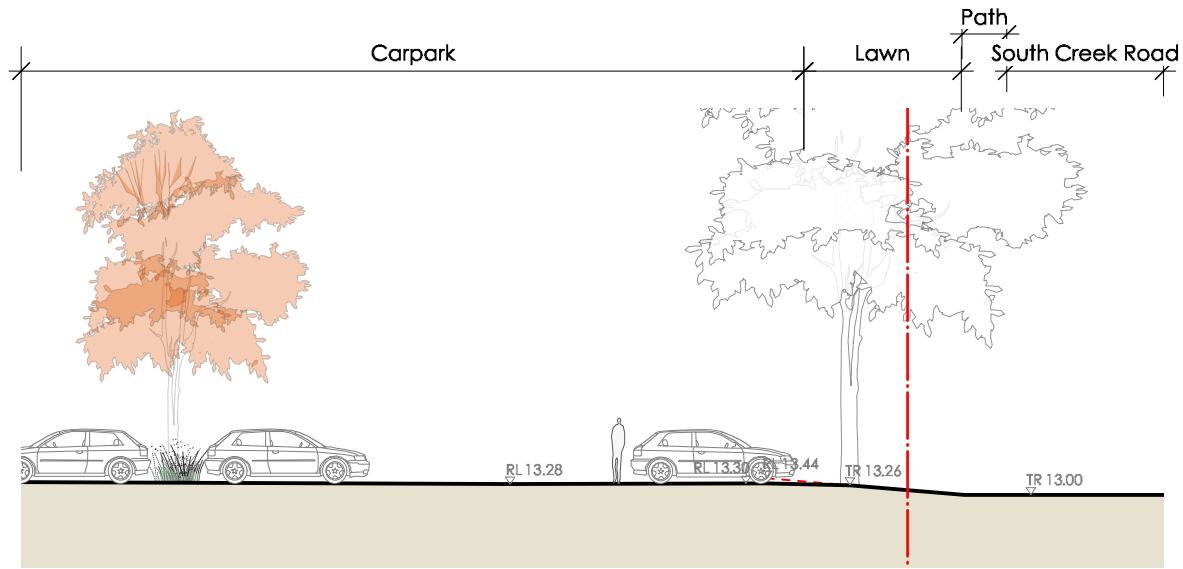
Job No  
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Drawing Status  
 Development Application

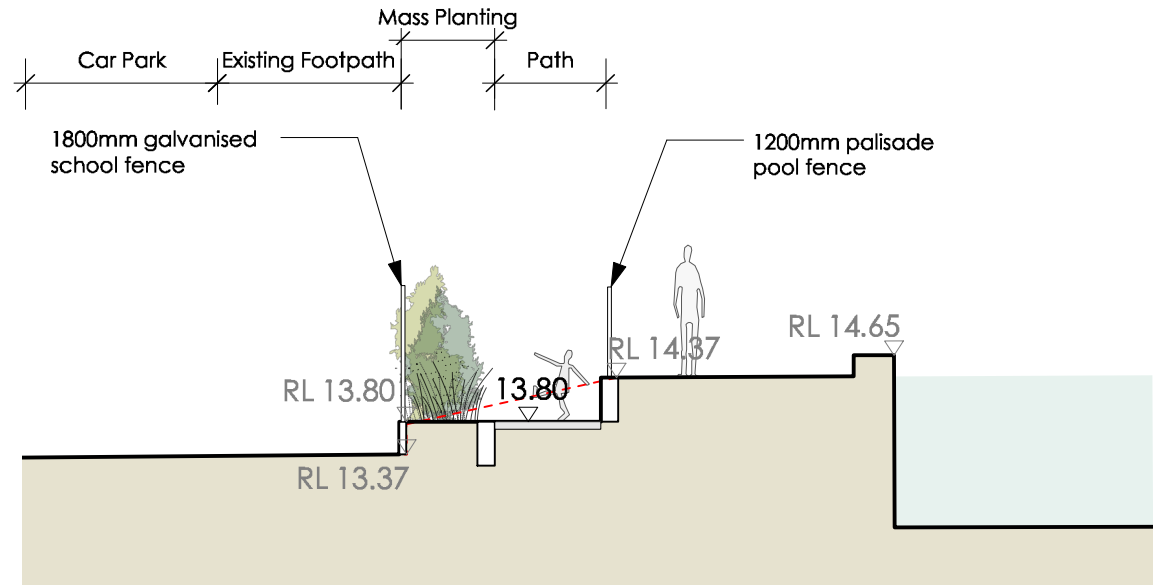
Drawing No  
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Issue  
 A

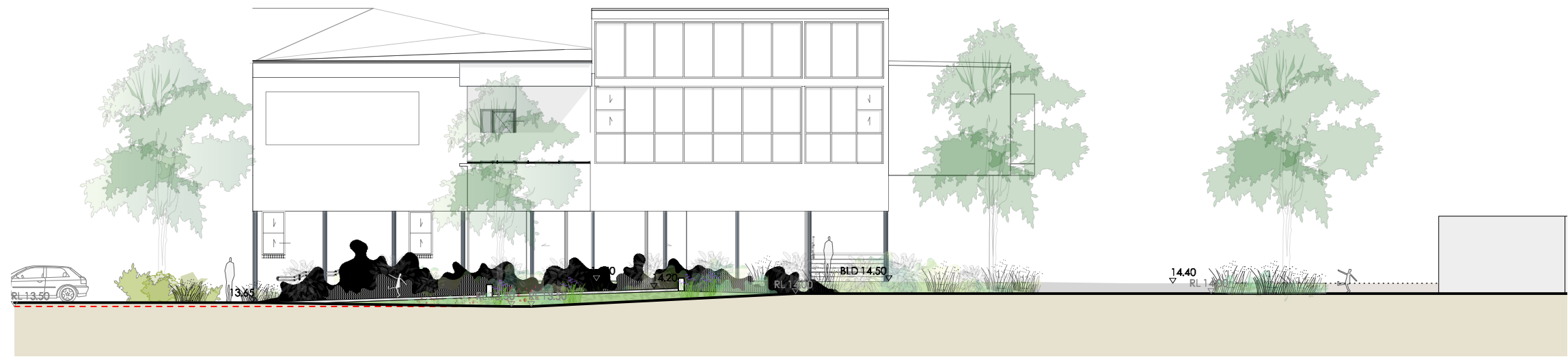
1  
2  
3  
4  
5  
6  
7  
8  
9  
10



**1** ECC CARPARK & PUBLIC DOMAIN  
Scale: 1:200



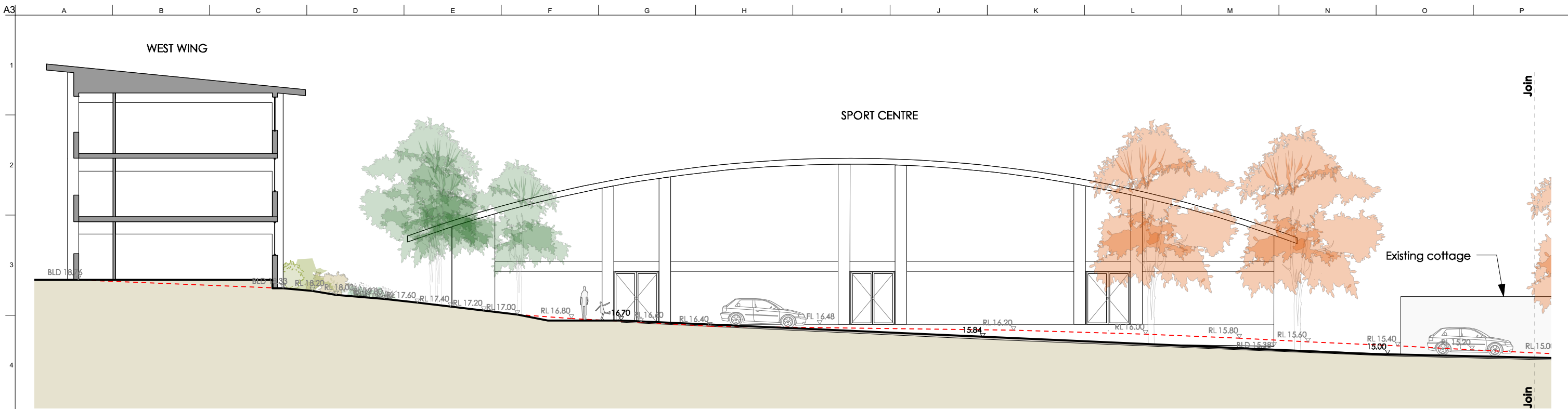
**2** SWIMMING POOL FENCE  
Scale: 1:100



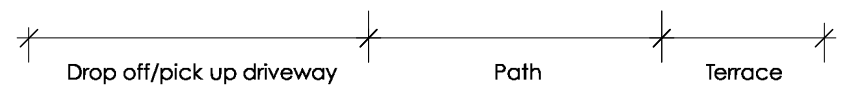
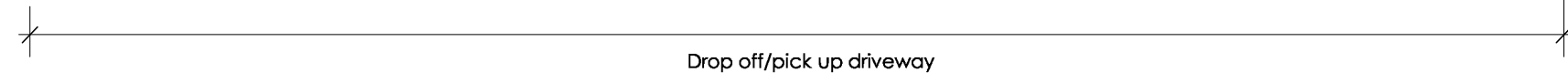
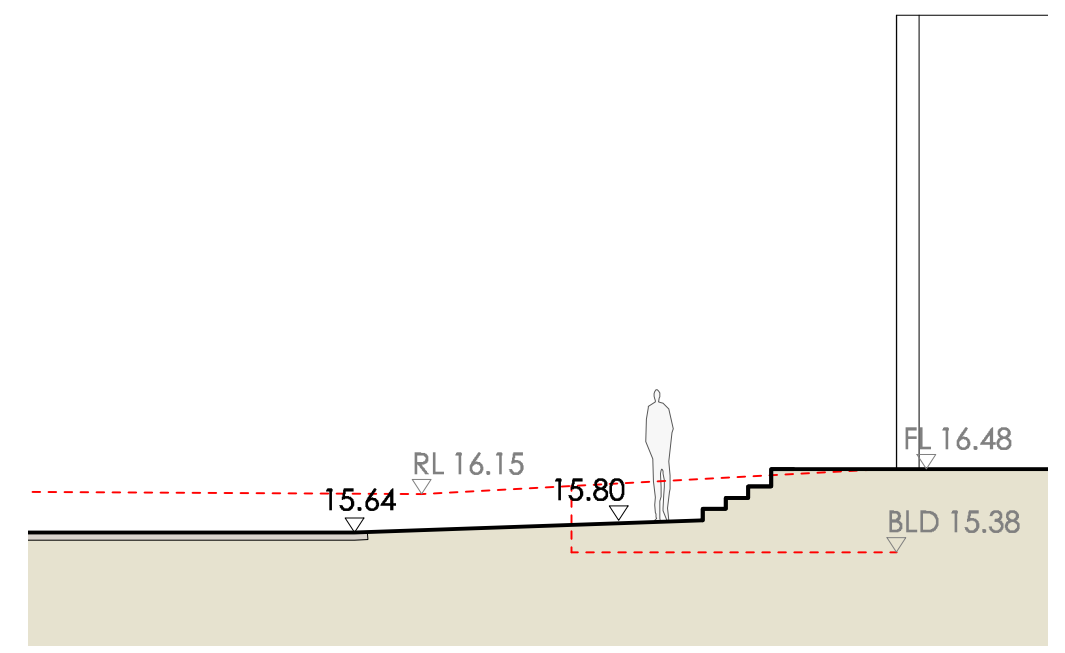
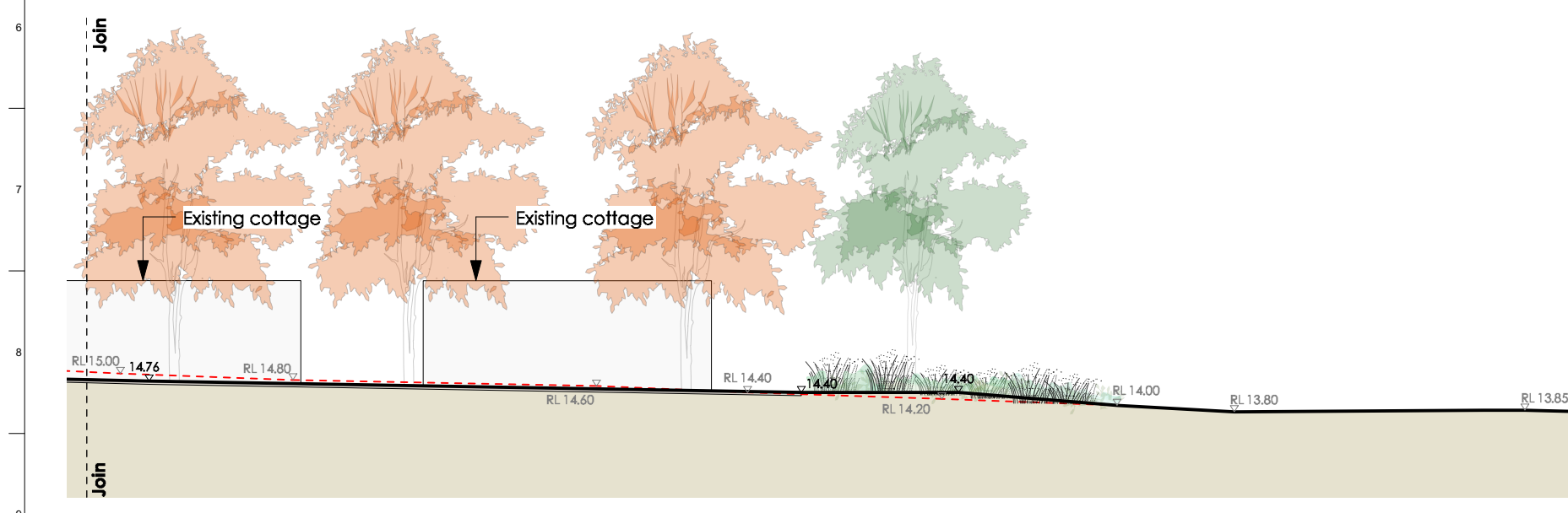
**3** ENTRY GARDEN  
Scale: 1:200

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Issue	Description	Date	By								



4 DROP OFF/PICK UP SECTION ELEVATION  
Scale: 1:200



5 TERRACE - SPORT CENTRE ENTRY  
Scale: 1:100

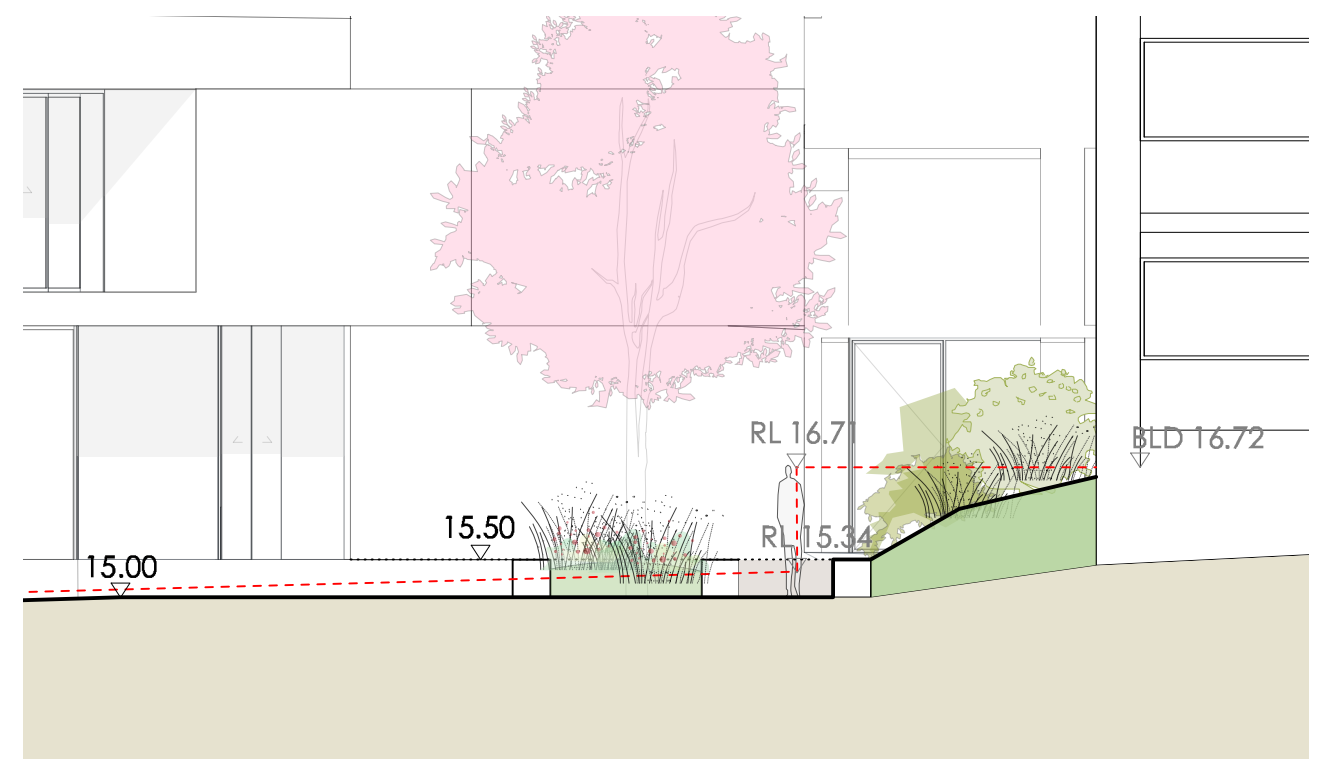
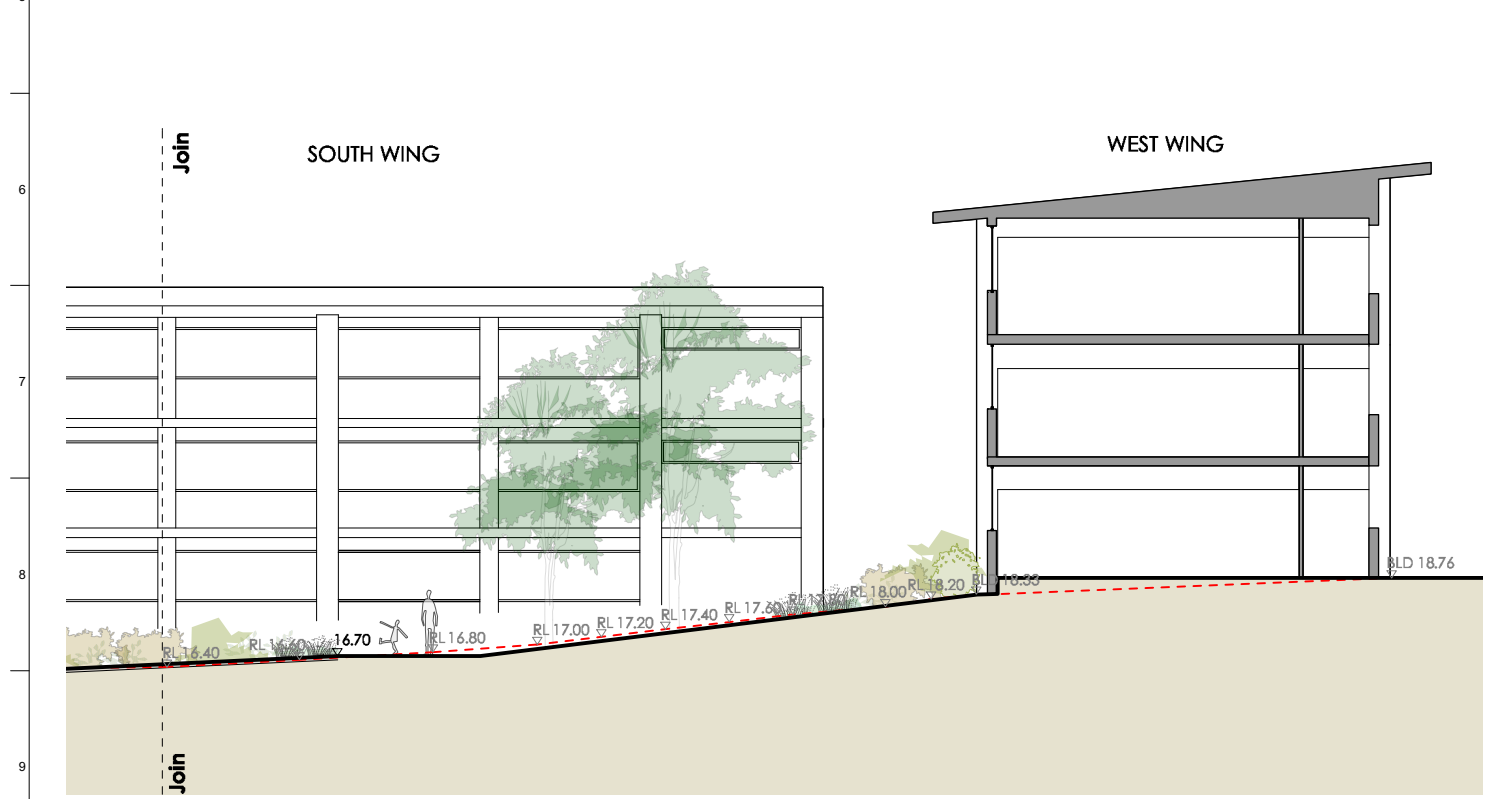
**NOT FOR CONSTRUCTION**

<ul style="list-style-type: none"> <li>- Dimension in millimetres.</li> <li>- Confirm all dimensions and levels on site prior to commencing work.</li> <li>- Use figured dimensions only.</li> <li>- Do not scale.</li> <li>- Comply with relevant authorities requirements, the Building Code of Australia and all relevant Australian Standards when executing works described in this drawing.</li> </ul>				<p>LANDSCAPE ARCHITECT</p> <p><b>jane irwin landscape architecture</b></p> <p>Studio 203, Level 2, 61 Marlborough Street Surry Hills NSW 2010 Telephone 61 2 9212 6957 Email info@jila.net.au Web www.jila.net.au</p> 		<p>CLIENT</p> <p>Neeson Murcutt Architects PTY LTD</p>		<p>PROJECT TITLE</p> <p>Pittwater House Schools - Stage 1</p> <p>70 South Creek Road, Collaroy NSW 2097</p>		<p>DRAWING TITLE</p> <p>Landscape Section/Elevation 02</p> <p>Scale @ A3 Varies</p> <p>Job No 190601 Drawing Status Development Application</p> <p>Drawing No L-DA-502 Issue A</p>	
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Issue	Description	Date	By								



Drop off/pick up driveway

**6** DROP OFF/PICK UP SECTION ELEVATION  
Scale: 1:200

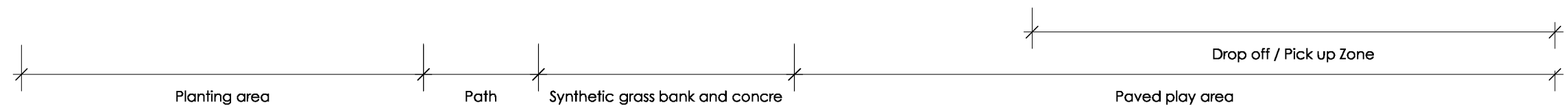
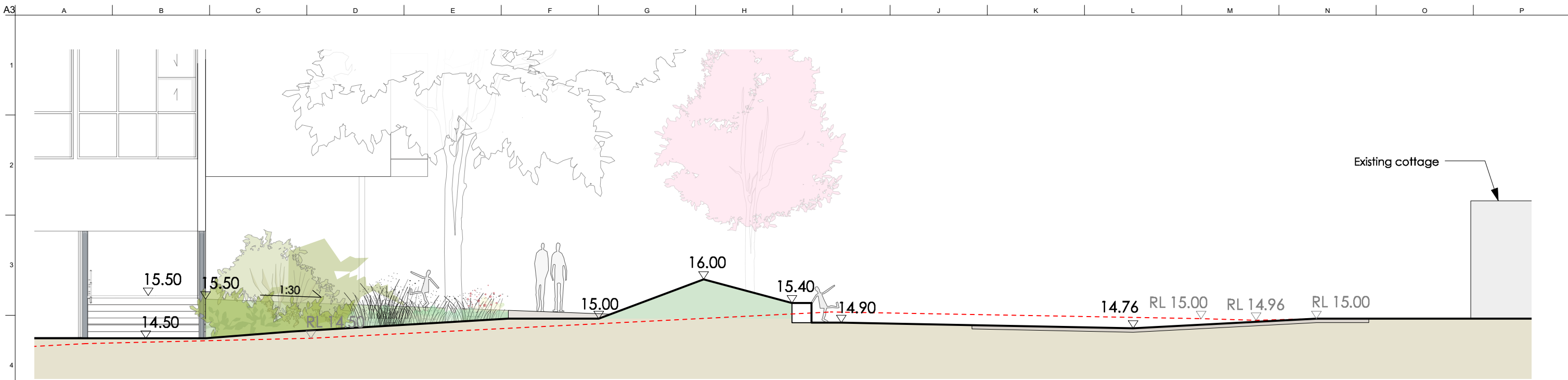


Path Bench Seating Path New Planted bank

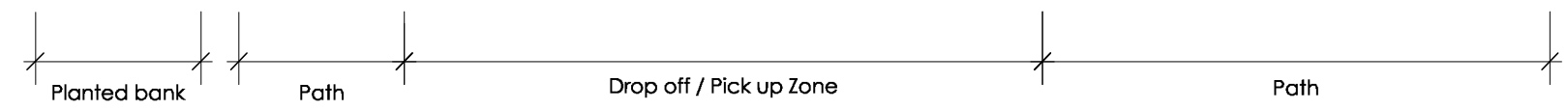
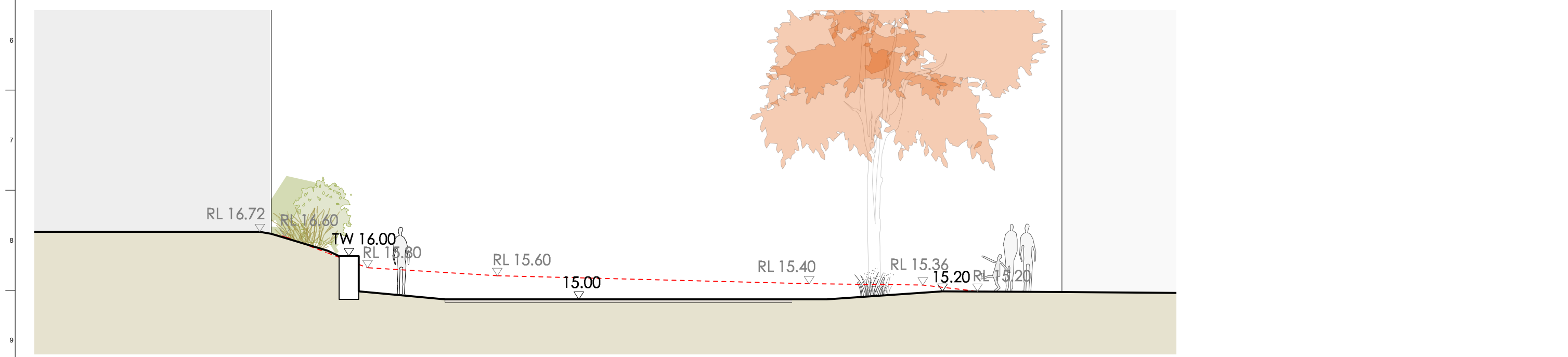
**7** MEMORIAL TREE  
Scale: 1:100

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<p>A ISSUED FOR DA</p>		<p>24/10/19</p>	<p>AH</p>	<p>Copyright in all documents and drawings prepared by JILA and in any work executed from those documents and drawings shall remain the property of JILA or on creation vest in JILA.</p>							
<p>Issue Description</p>		<p>Date</p>	<p>By</p>								



8 DROP OFF/PICK UP SECTION  
Scale: 1:100

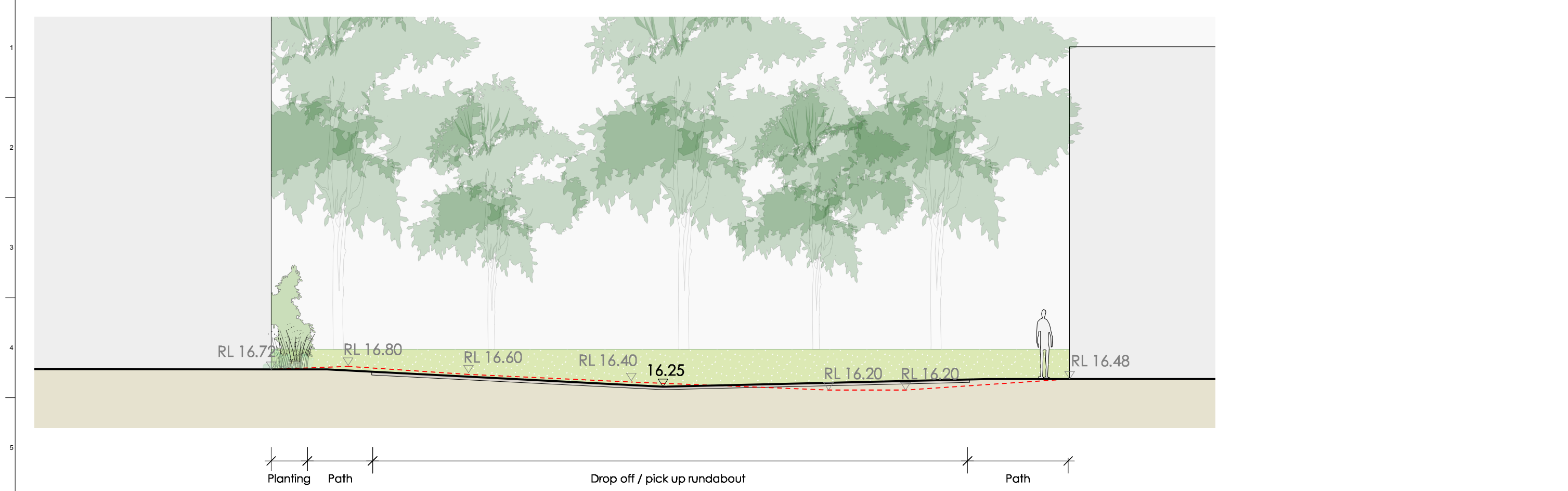


9 DROP OFF/PICK UP SECTION  
Scale: 1:100

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<ul style="list-style-type: none"> <li>- Dimension in millimetres.</li> <li>- Confirm all dimensions and levels on site prior to commencing work.</li> <li>- Use figured dimensions only.</li> <li>- Do not scale.</li> <li>- Comply with relevant authorities requirements, the Building Code of Australia and all relevant Australian Standards when executing work described in this drawing.</li> </ul>				<p>LANDSCAPE ARCHITECT</p> <p><b>jane irwin landscape architecture</b></p> <p>Studio 203, Level 2, 61 Marlborough Street Surry Hills NSW 2010 Telephone 61 2 9212 6957 Email info@jila.net.au Web www.jila.net.au</p> 		<p>CLIENT</p> <p>Neeson Murcutt Architects PTY LTD</p>		<p>PROJECT TITLE</p> <p>Pittwater House Schools - Stage 1</p> <p>70 South Creek Road, Collaroy NSW 2097</p>		<p>DRAWING TITLE</p> <p>Landscape Sections 04</p> <p>Scale @ A3 1:100</p> <p>Job No 190601</p> <p>Drawing Status Development Application</p> <p>Drawing No L-DA-504</p> <p>Issue A</p>	
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Issue	Description	Date	By								






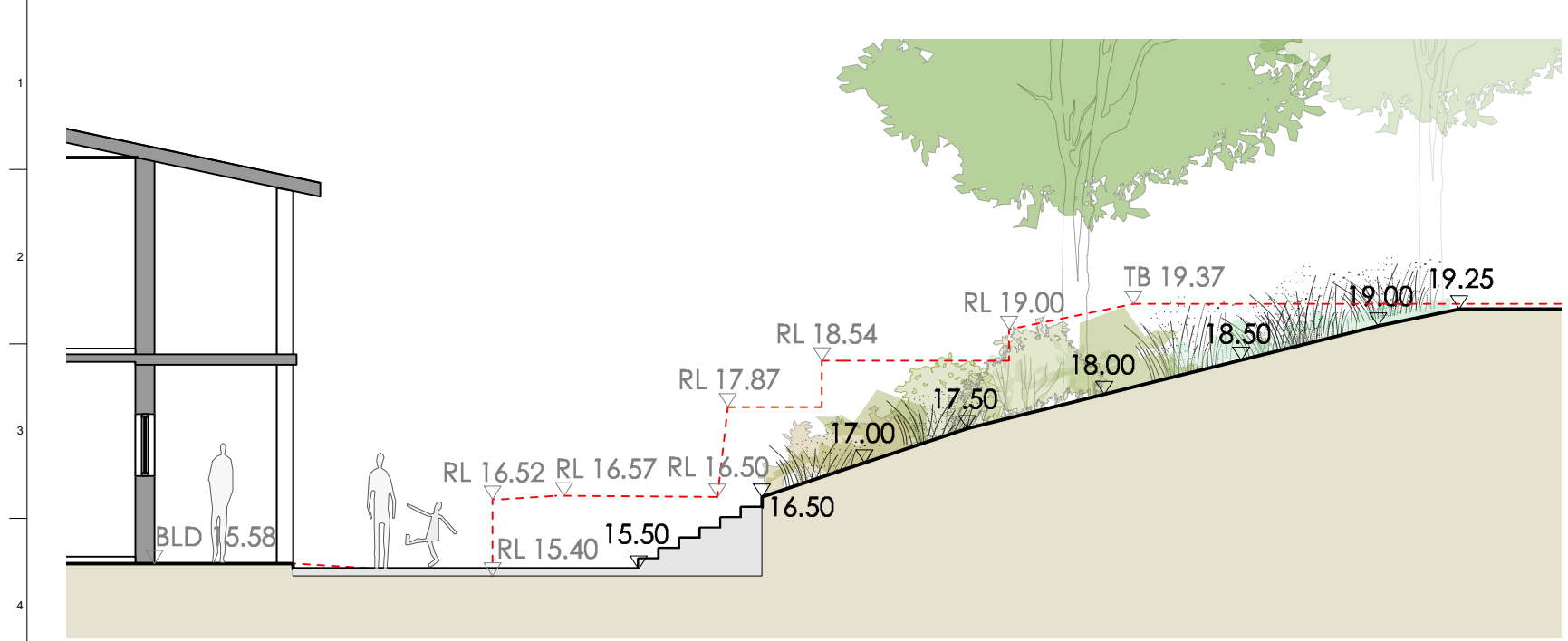
10 DROP OFF/PICK UP SECTION  
Scale: 1:100



11 AMPHITHEATRE LANDSCAPE SECTION  
Scale: 1:200

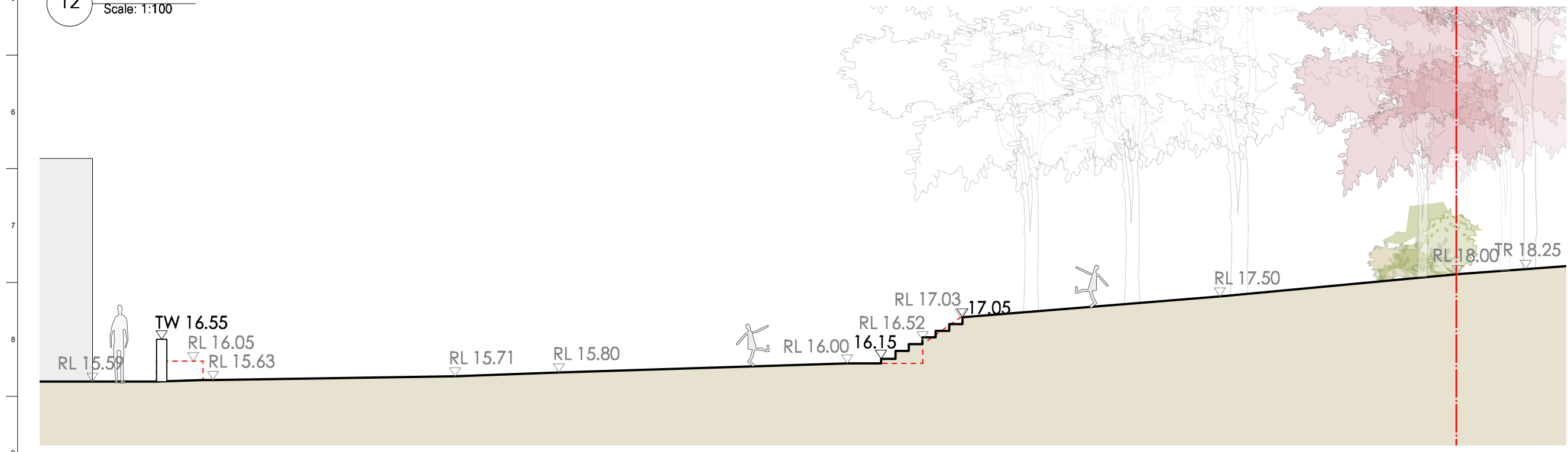
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Issue	Description	Date	By								



Seating Terraces Planted Bank

12 KINDY AREA  
Scale: 1:100

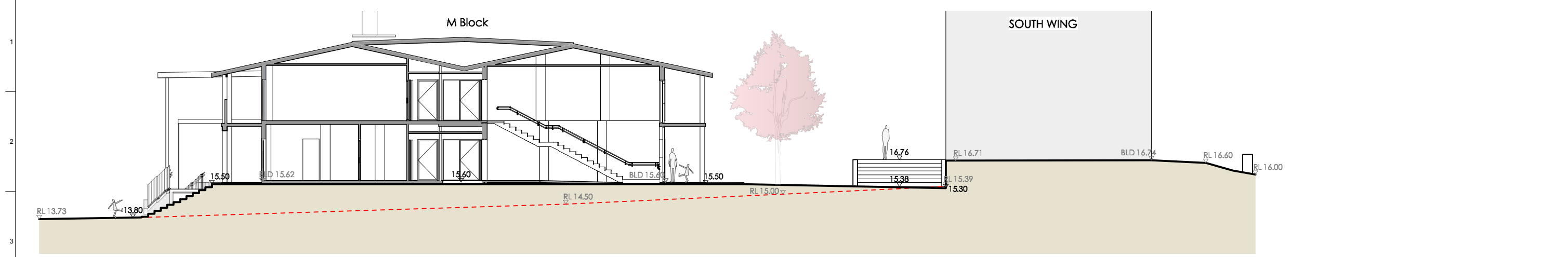


1500 Mixed Use Court Stepped Terrace Mulched Surface Playground Resident Area

13 MIXED USED COURT & PLAYGROUND  
Scale: 1:100

**NOT FOR CONSTRUCTION**

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<p>ISSUED FOR DA</p>				<p>24/10/19 AH</p>				<p>Job No 190601</p>			
<p>Issue Description</p>				<p>Date By</p>				<p>Drawing No L-DA-506</p>			
								<p>Drawing Status Development Application</p>			
								<p>Issue A</p>			



Dry Creek Playground      Amphitheatre      Path

**14** NEW BUILDING & M BLOCK PASS  
Scale: 1:200



Oval      Low Mound      Swale      Existing Trees      Planting Area      Resident Area

**15** NORTHERN OVAL - SWALE & LOW MOUND  
Scale: 1:100

**NOT FOR CONSTRUCTION**

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Issue	Description	Date	By								