TRINITY GRAMMAR SCHOOL - SUMMER HILL CAMPUS

The Renewal Project - Landscape SSDA

October 2020

ARCADIA

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Arcadia respectfully acknolowdges the traditional custodians of the land upon which Trinity Grammar School stands today, the Wangal people of the Dharug (Eora) Nation. We honour elders past, present and emerging whose knowledge and wisdom will ensure the continuation of cultures and traditonal practices.

Trinity Grammar School

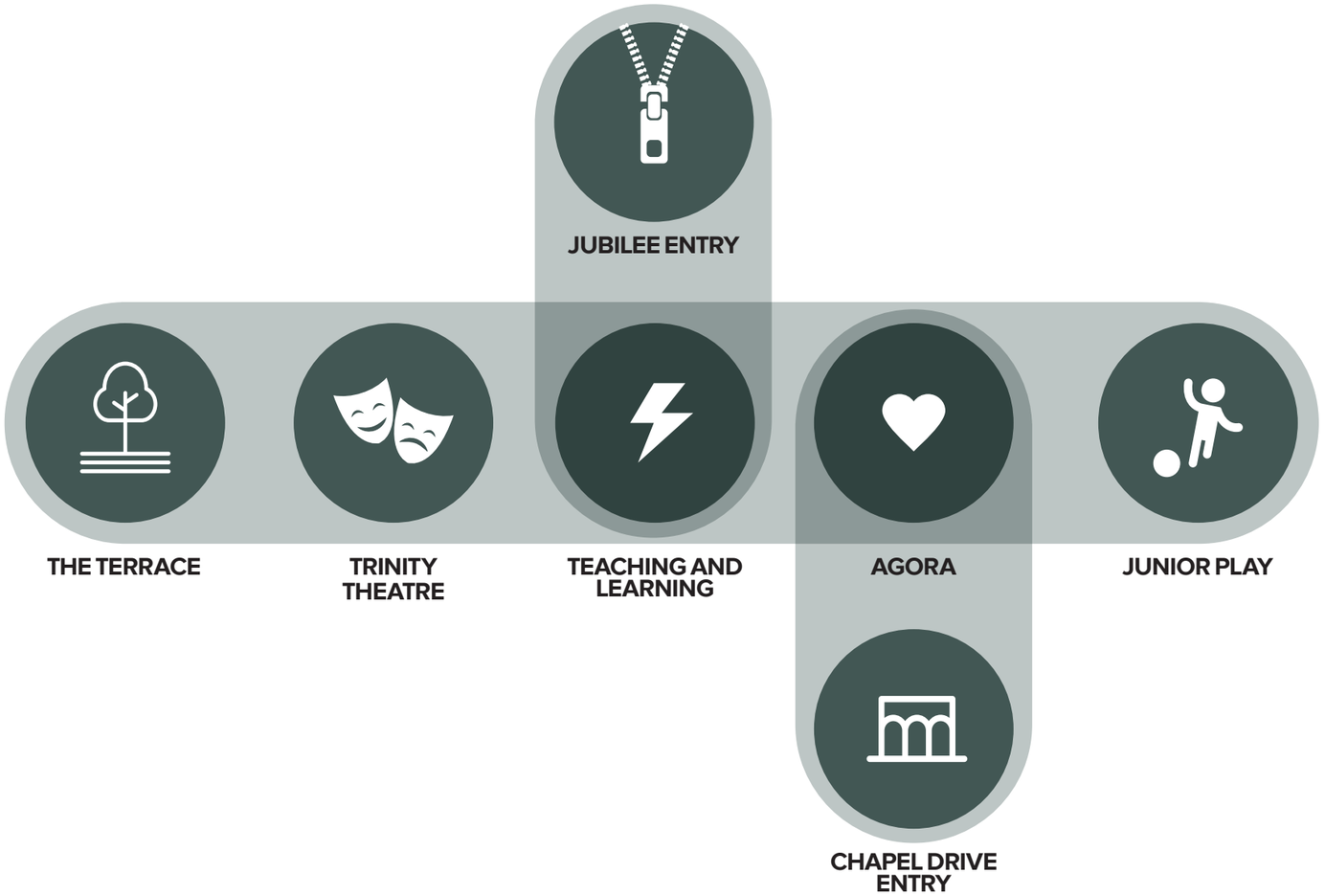
Renewal Project

Aims and Objectives

The following objectives have been identified as forming the basis of the proposed development of the existing educational establishment:

- Create an education precinct to create a high-quality teaching and learning environment for staff and students;
- Establish additional floor space to increase availability and efficiency of teaching functions for Trinity Grammar School Summer Hill Campus;
- Improve site access, car parking and surrounding traffic functions in the precinct;
- Strengthen pedestrian linkages throughout the campus;
- Enhance the overall campus aesthetic, upgrade the public domain to create visually interesting transitions through the campus, and promote the heritage elements of the campus;
- Ensure minimal environmental impact;
- Maintain the significant green fields assets and provide opportunities for new outdoor environments;
- Ensure development is compatible with surrounding development and the local context; and
- Create a safe environment to support and nurture the boys growth.

The site and proposed design are considered to meet the objectives of the project as it allows for development on land that has been previously used for educational purposes.



Landscape Precincts

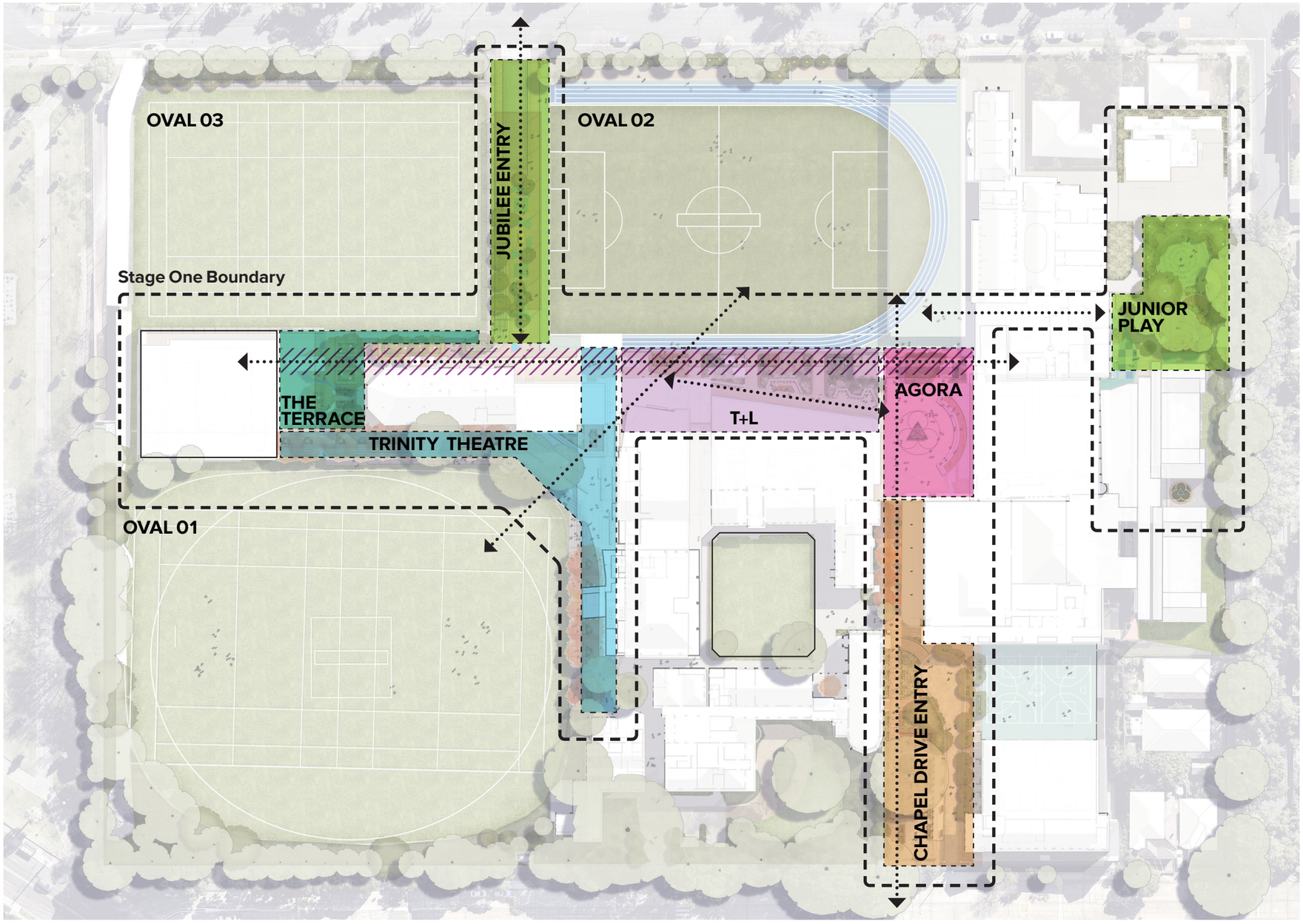
Renewal Project

Description of the Proposal

The proposed development seeks detailed built form approval of new teaching and educational facilities, as detailed below:

- New five (5) storey building at the heart of the Campus to accommodate modern, flexible teaching and learning spaces;
- Improve movement and flow for students, with better east-west and north-south links across the school grounds and between levels, including more accessible connections between the Junior School, ovals and car park, and providing strong visual and physical connections;
- Renewal and Refurbishment of existing teaching and learning facilities;
- Reconfiguration and connection of underground car park improve traffic flow for the school drop-off and pick-up zone and improve the safety of boys and visitors who enter the school grounds as pedestrians from Victoria Street;
- New multipurpose pavilion between Ovals 1 and 3 containing a multipurpose space and basketball court;
- Demolition of school-owned residences at 46, 48, 50 and 52 Seaview Street, improving the existing service, maintenance and delivery facilities;
- Improvement and extension to Junior School outdoor teaching area and outdoor assembly area.

Overall, the proposed built form approval seeks to provide a framework for the future physical development of the Campus to ensure the best teaching and learning outcomes, and ongoing evolution of the School.



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Trinity Grammar School - Summer Hill Campus
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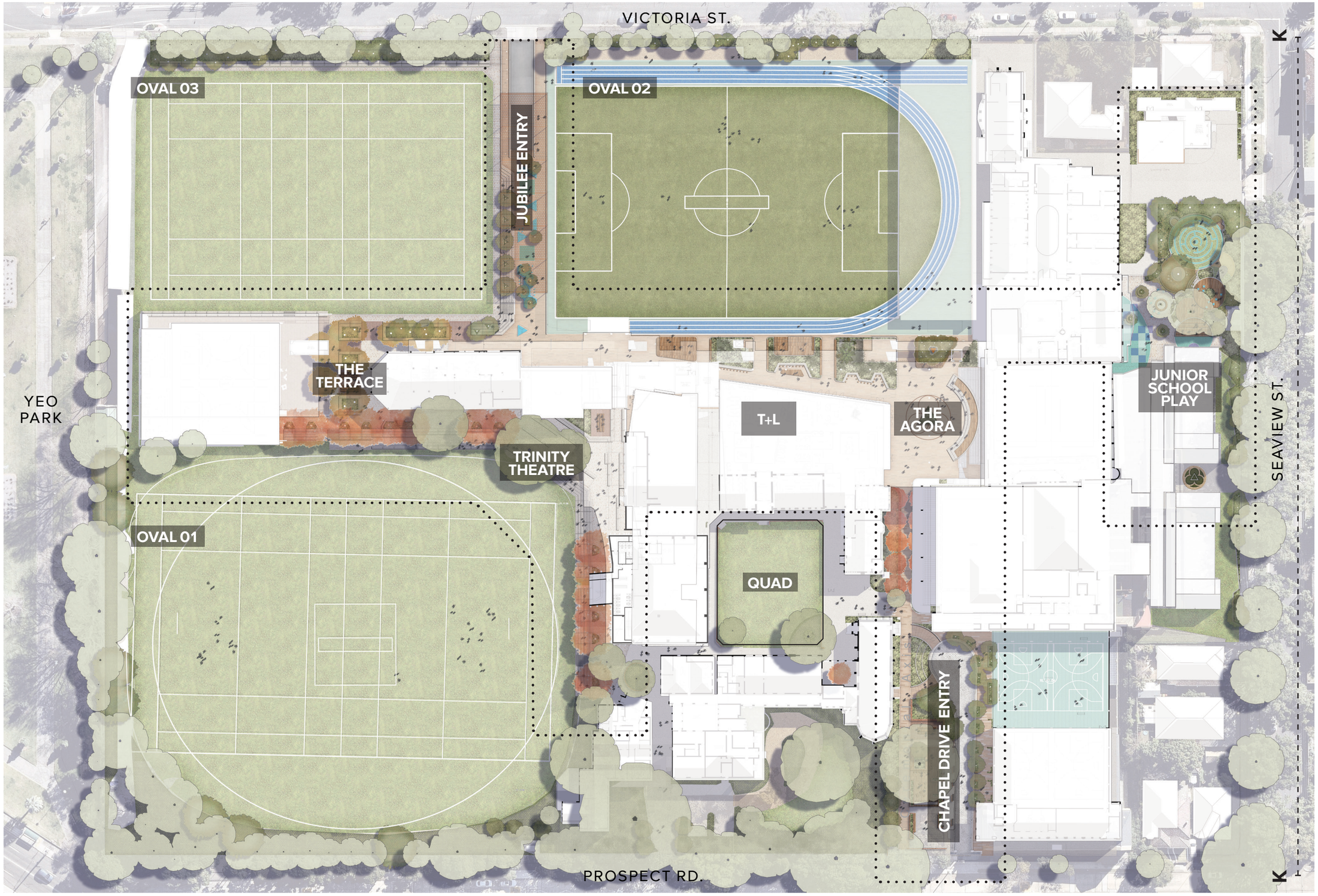
Architect	PMDL		

Master Plan



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The Agora

Precinct Vision

The Experience

Program & Users

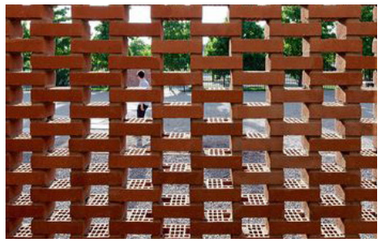
- A flexible platform for the whole campus, providing grand assembly, performance, and exhibition
- Grand entry and arrival to and from vehicular drop off and pick up
- Space used for entire school, visitor arrival & meeting point as a the primary node unifying various areas of the campus.

Character & Spatial Qualities

Spatial Qualities

- Axis views to chapel + Ceremonial Axis, views to TNL and sports grounds
- The crossroads for the Trinity campus. Generous multi-leveled pedestrian zones facilitate movement to and from each area of the campus.
- An indoor-outdoor space, shelter is provided year-round, while microclimatic zones are focused on providing amenable spaces for gathering and learning.
- A multi functional space that can transform into a stage, a gallery or function area.

Elements & Materiality



Materiality

- Transitioning from traditional heritage to contemporary materials
- Permeable structures allow ample light to flow through the space
- Opportunities for artistic display adds interest, texture and emphasises place
- Technology built in to agora for functions, exhibitions and performances

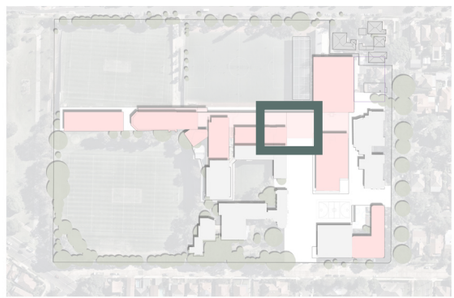
The Agora

Precinct Detail Plan

Legend

1. Feature paving with school emblem
2. Feature assembly lounge
3. Spectator seating to sports court
4. Entry feature grove with art and lounge
5. Multi Functional Forecourt
6. Communal Seating Nook with Study Table
7. Access portal to carpark
8. Cascading plants to basement
9. Sunken tropical garden

Key Plan



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1:300 @ A3

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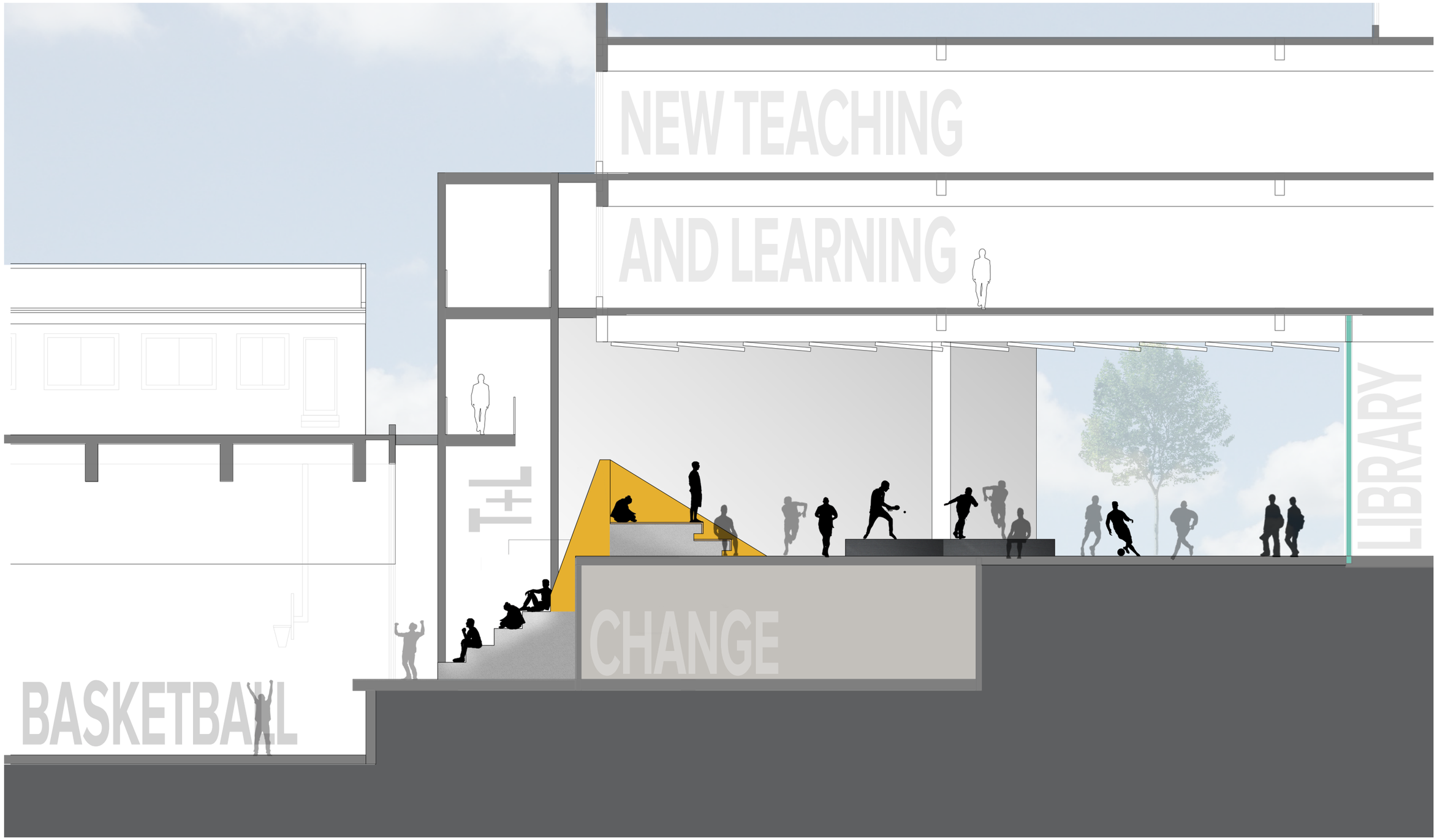
The Agora

Section A - A



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1:100 @ A3

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The Agora

Isometric Diagram

Key Plan

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T+L

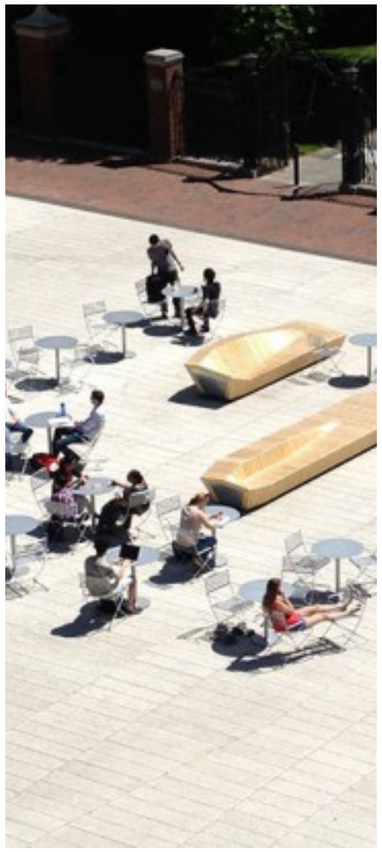
Precinct Vision

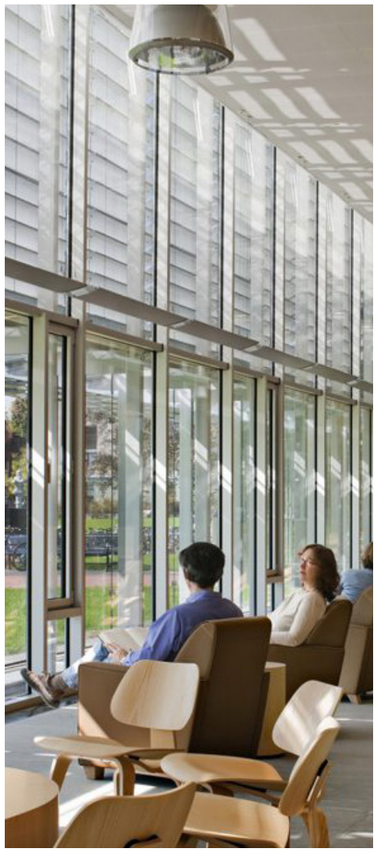
The Experience

Precinct Concept

- A continuous legible north south corridor through school to Yeo park
- A multi-leveled link between Sports, Music, Agora, and Junior School. The corridor provides spill over spaces that respond to the specific needs of each faculty, allowing for formal and informal gathering, performances, and maker spaces.
- Flexible indoor-outdoor spaces for both learning, gathering, and viewing sports
- Strengthen solar protection to existing and proposed buildings
- Enhanced drop-off experience and connectivity

Character & Spatial Qualities

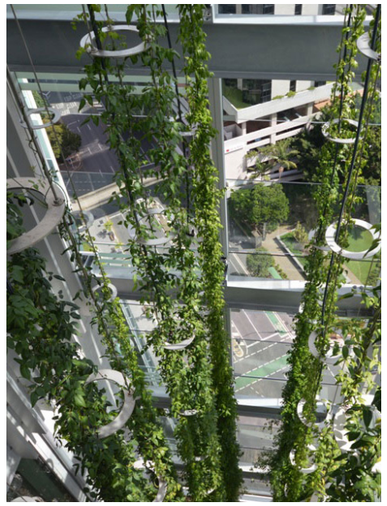




Spatial Qualities

- Views west over sports and neighbourhood
- Linear circulation with flexible gathering and study nodes activating interstitial zones
- Shelter is provided for students moving through the space in inclement conditions while microclimatic zones are focused on providing amenable spaces for gathering and learning.

Elements & Materiality

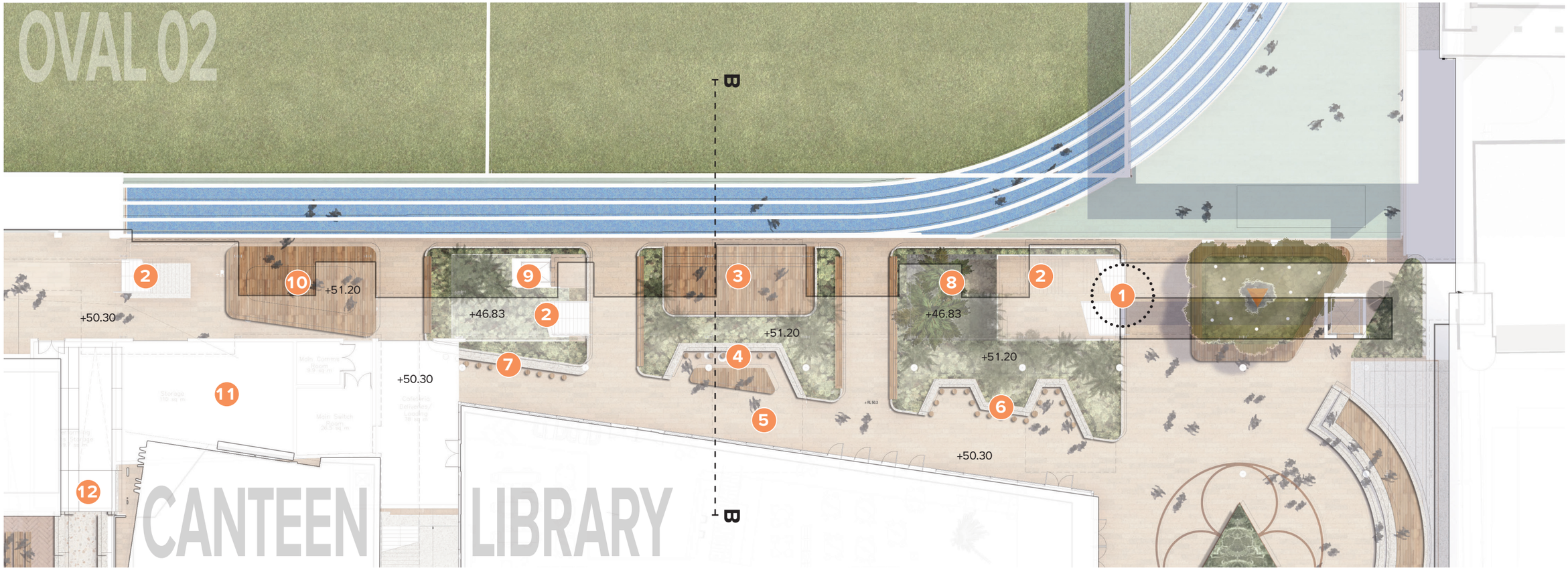


Materiality

- Contemporary materials to complement new architecture and contrast with heritage structures
- Permeable screening + planting to allow light
- Shade structures including vertical planting provide internal amenity and external identity

T+L SPILL OUT

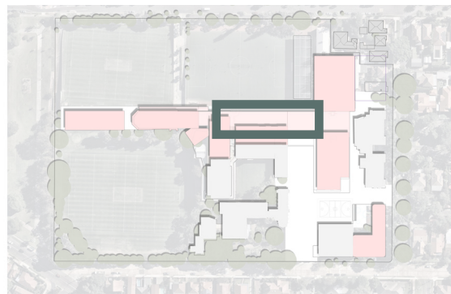
Precinct Detail Plan



Legend

1. Access portal to carpark
2. Vertical circulation
3. Terraced deck lounge
4. Outdoor classroom nook
5. Circulation path around library and reception
6. Communal Seating Nook with Study Table
7. Bar table
8. Sunken tropical garden
9. Lift access
10. Timber island lounge
11. Canteen forecourt
12. Oval one access

Key Plan



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1:300 @ A3

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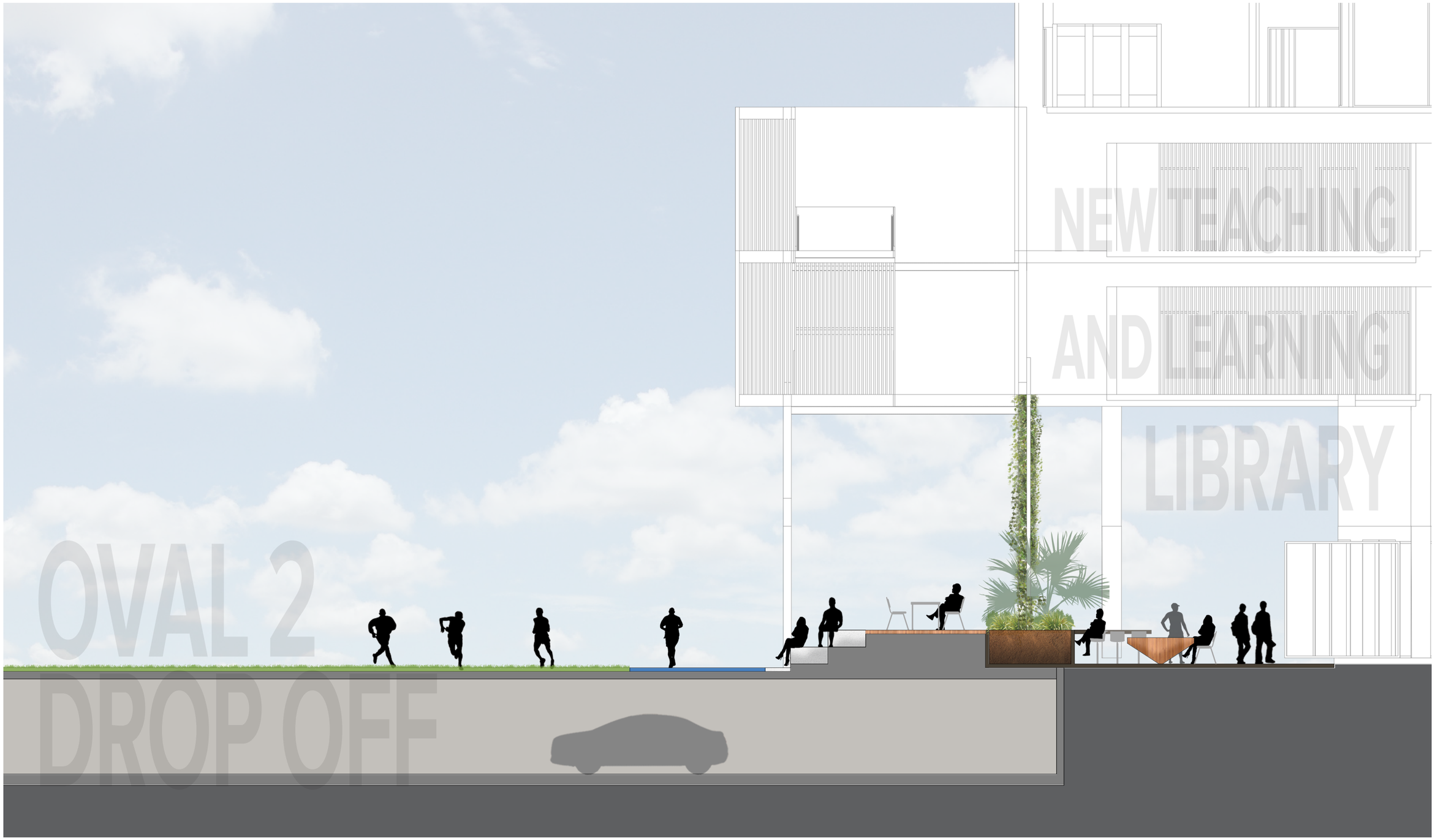
T+L

Section B - B



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1:100 @ A3

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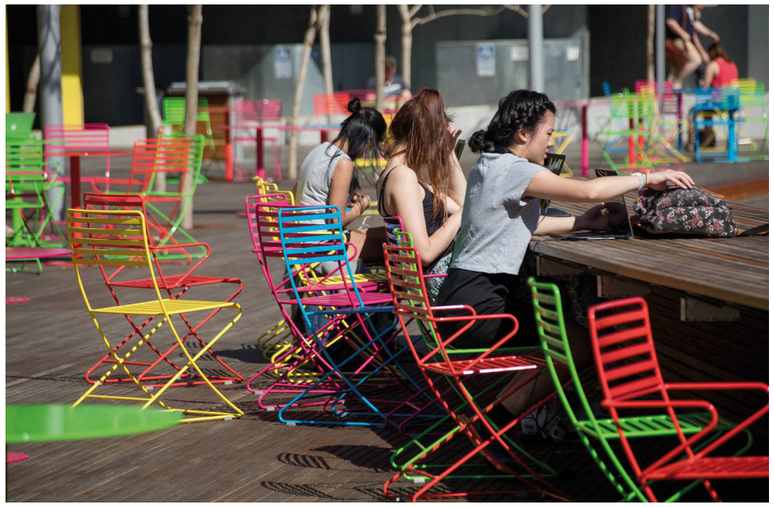
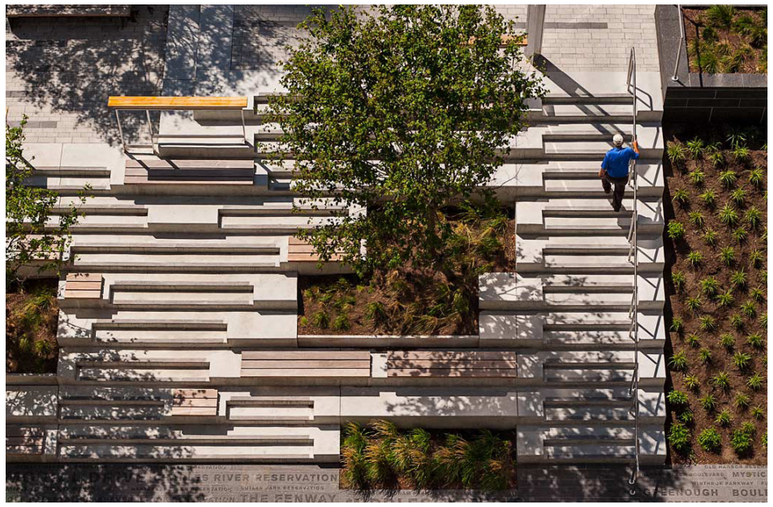
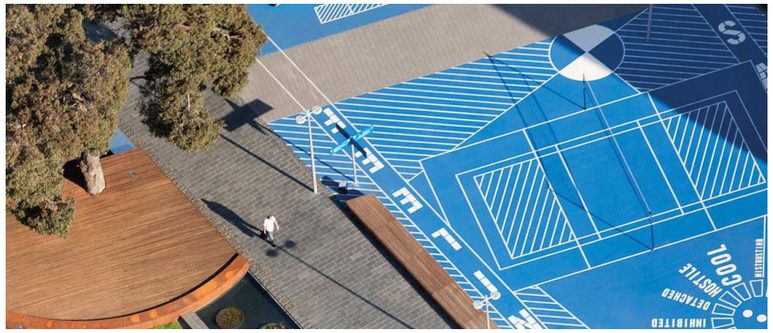
Jubilee Entry

Precinct Vision







Program & Users

- Bus drop off, kiss + drop, parent gathering
- Passers by, visitors
- Chapel (weddings, funerals, and the like)

Spatial Qualities

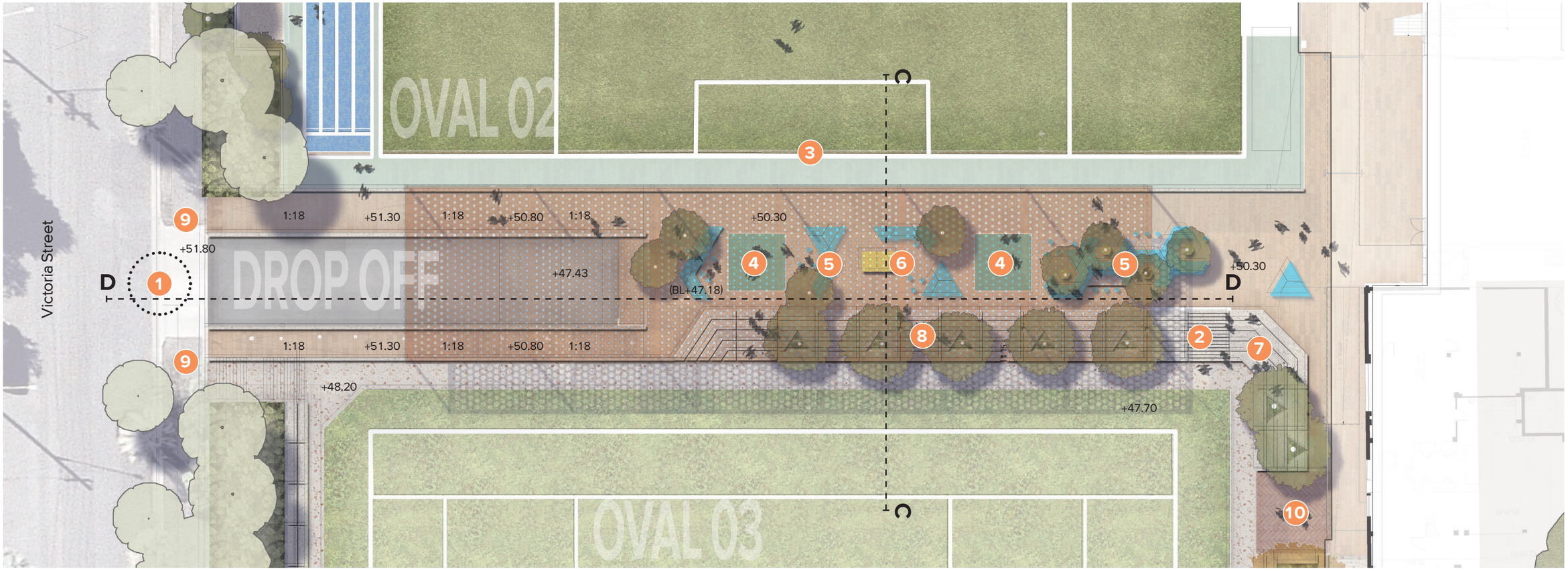
- Retain & enhance prominent street presence. Frame agora & ceremonial spine with formal avenues
- Public perimeter movement

Materiality

- Formal planting and materials
- Signage/Wayfinding
- Landmarks

Jubilee Entry

Precinct Detail Plan



Legend

1. Entrance Driveway to underground carpark
2. Stairs access to Jubilee Entry
3. Soccer net
4. Painted handball court
5. Modular communal lounge with backrest
6. Ping pong table
7. Amphitheatre Seating
8. Precast concrete terrace with integrated avenue planting
9. Pedestrian access to Victoria Street
10. Pedestrian access to carpark/B1

Key Plan

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Trinity Grammar School - Summer Hill Campus
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1:300 @ A3

0 10m

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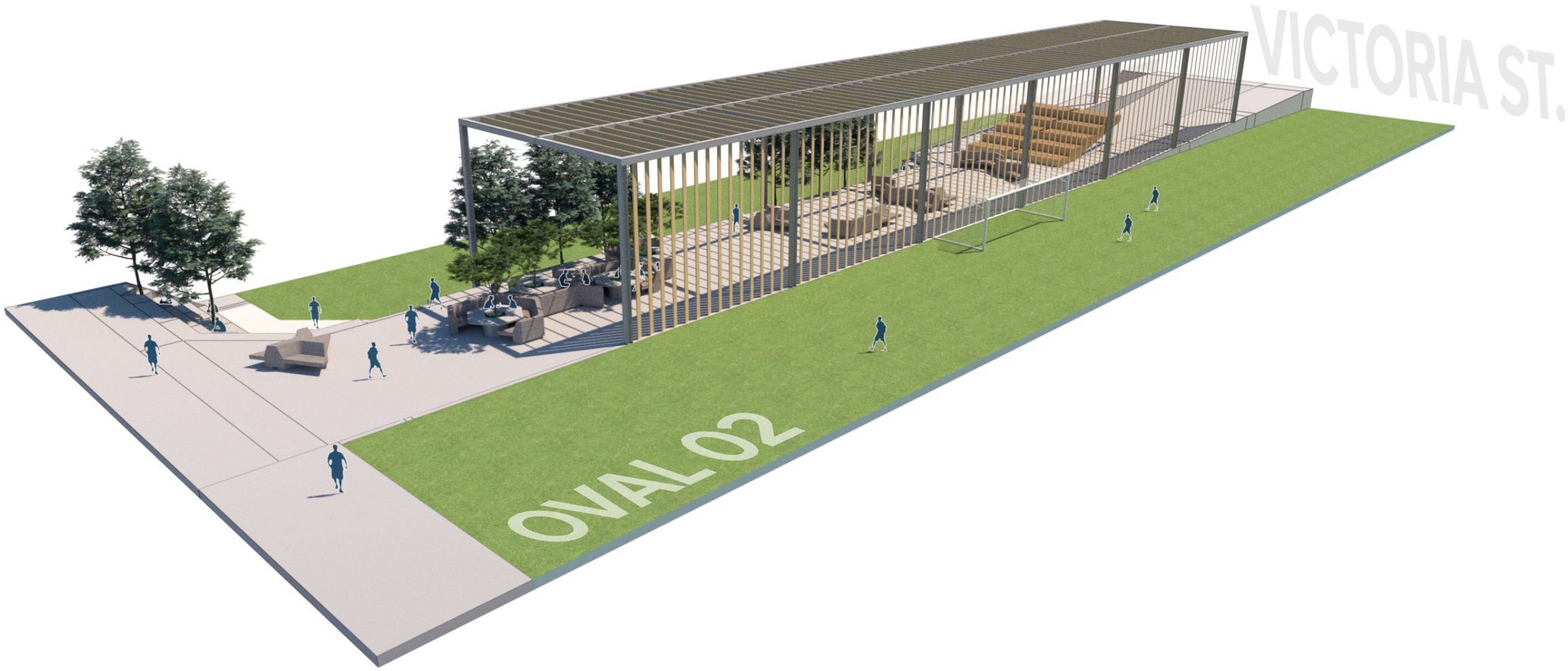
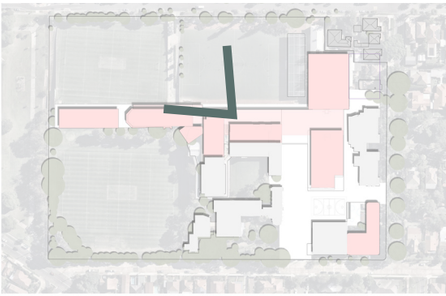
Jubilee Entry

Isometric Diagram



Key Plan



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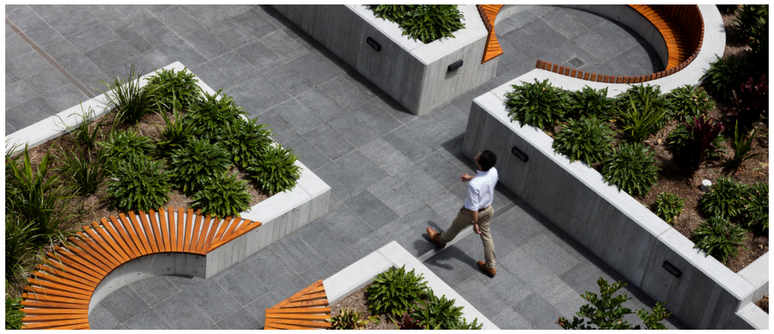
The Terrace

Precinct Vision



Program & Users

- Key axis between Oval 1 and 2
- Students in groups of 8-25 outdoor communal space
- Sporting event breakout space
- Increased green canopy
- Sports spectating

Spatial Qualities

- Combination of communal and intimate outdoor rooms
- Flexible outdoor furniture for recess or class
- Prime spectating and passive surveilance

Materiality

- Precast concrete modules define bleachers for spectating and retaining for soft landscaping and trees
- Finegrain material palette define communal hangout areas

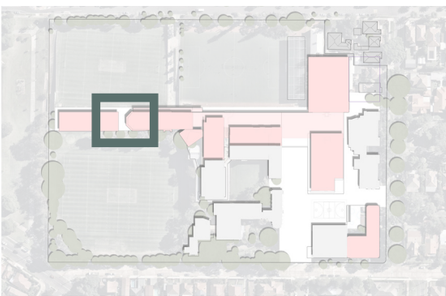
The Terrace

Precinct Detail Plan

Legend

1. Integrated seating terrace/planter
2. Raised grove planting
3. Communal table
4. Alfresco terrace
5. Kiosk
6. Shade canopy (above)

Key Plan



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Trinity Grammar School - Summer Hill Campus
The Renewal Project - Landscape SSDA

1:300 @ A3

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The Terrace

Section E - E

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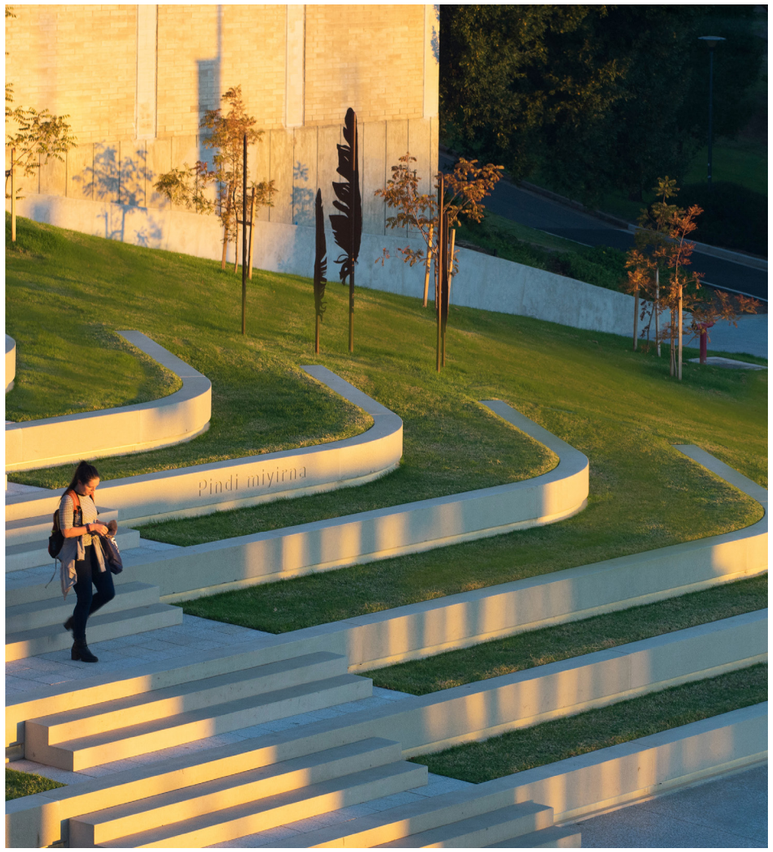
Trinity Theatre

Precinct Vision



Program & Users

- Key external assembly area (approx. 1200 pax)
- Formalised oval one spectating
- Integrated legacy tree planting
- accessable ramp access to oval 02 and carpark
- Outdoor performing arts amphitheatre
- Canteeen breakout space
- Accessible

Spatial Qualities

- A grand assembly destination
- Carnival events
- Competition sports spectating
- Seasonal comfort

Materiality

- Precast concrete modules define bleachers for spectating and retaining for soft landscaping and trees

Trinity Theatre

Precinct Detail Plan

ARCADIA

Trinity Grammar School - Summer Hill Campus
The Renewal Project - Landscape SSDA

1:300 @ A3

0 10m

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Trinity Theatre

Section F - F

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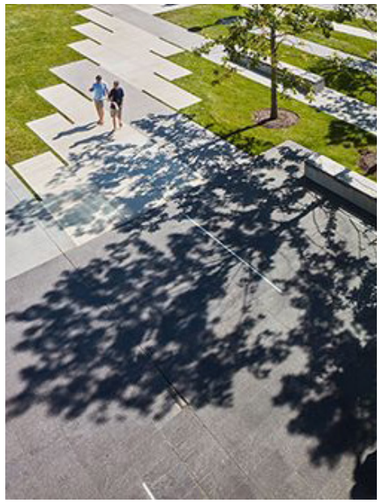
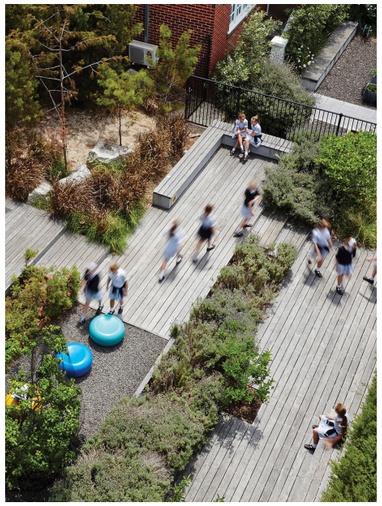
CHAPEL DRIVE ENTRY

Precinct Vision

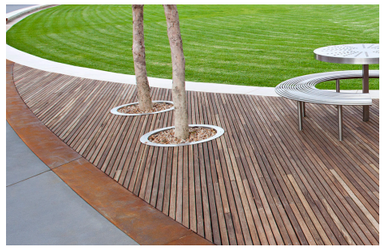
The Experience

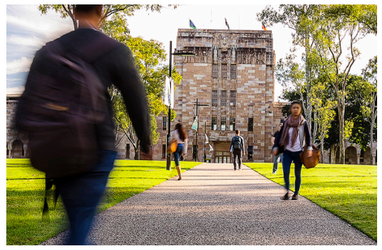
Character & Spatial Qualities





Elements & Materiality





Programme & Users

- Bus drop off and pick up
- Walkway to academic core and junior school
- New Science TAS/Art outdoor learning
- Handball and games
- Informal group gathering
- Chapel arrival and service (weddings, funerals, and the like)

Spatial Qualities

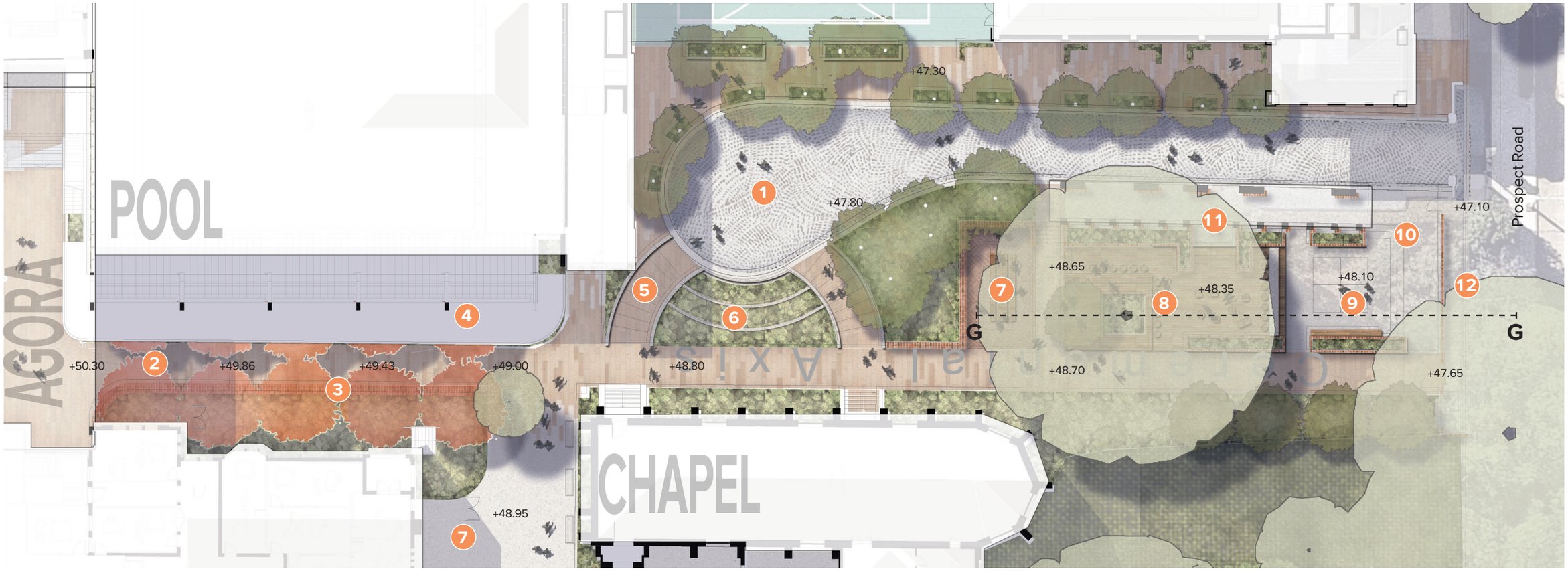
- Heritage views to chapel, garden and quad, and linear Axis views to Agora
- Generous pedestrian zones aiding both movement and gathering, as well as provision for service and processional vehicular access
- Shelter is provided for students moving through the space in inclement conditions while microclimatic zones are focused on providing amenable spaces for gathering and learning.

Materiality

- Formal paving and hardscape elements complement the Heritage Chapel and Core
- Formal planting and avenues to soften and complement existing heritage character and direct sightlines along the linear axis.
- Hard surfaces provide a desirable pedestrian environment while serving vehicular needs

CHAPEL DRIVE ENTRY

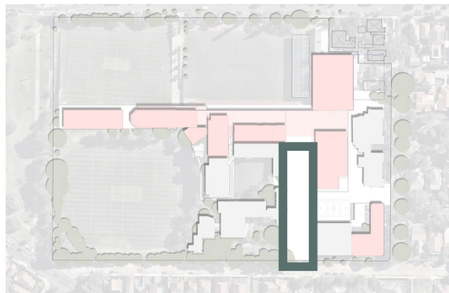
Precinct Detail Plan



Legend

1. Vehicle turning circle with pavment upgrade
2. 3m Ceremonial access path
3. Feature wayfinding wall
4. Ceremoial grove
5. Widened Chapel access stair
6. Existing rose bush planting
7. Chapel forecourt
8. Communal table / deck lounge
9. Integrated handball court
10. Terrace access
11. Covered bus bay
12. Forecourt entry

Key Plan



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Trinity Grammar School - Summer Hill Campus
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1:300 @ A3

0 10m

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CHAPEL DRIVE ENTRY

Section G - G

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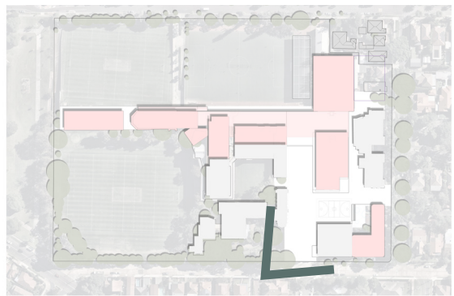
CHAPEL DRIVE ENTRY

Isometric diagram

Key Plan



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Junior School Play

Precinct Vision

The Experience

Program & Users

- Nestled at lower levels to the north of the Trinity school campus
- A playful overlay to navigate level changes.
- Outdoor learning spaces to create a healthy and green learning environment
- Dedicated age specific play spaces
- Scale elements specific to the smaller users of the school

Character & Spatial Qualities

Spatial Qualities

- Natural valley gulley experience
- Filtered views to Seaview Street, visual connections to the Agora and Ceremonial Axis
- Multi-leveled linear pedestrian zones between the Ceremonial Axis and the Agora aiding both movement and gathering, as well as provision for service and processional vehicular access
- Shelter is provided for students moving through the space in inclement conditions while microclimatic zones are focused on providing amenable spaces for gathering and learning.

Elements & Materiality

Materiality

- Natural materials and permeable paving to soften forms
- Native informal planting
- Mounded lawns for relaxation and imaginative play
- Educational gardens for agricultural learning
- Colourful play surfaces within gym playground

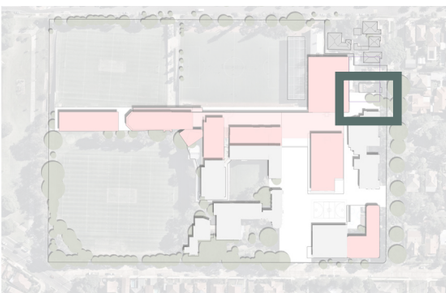
Junior School Play

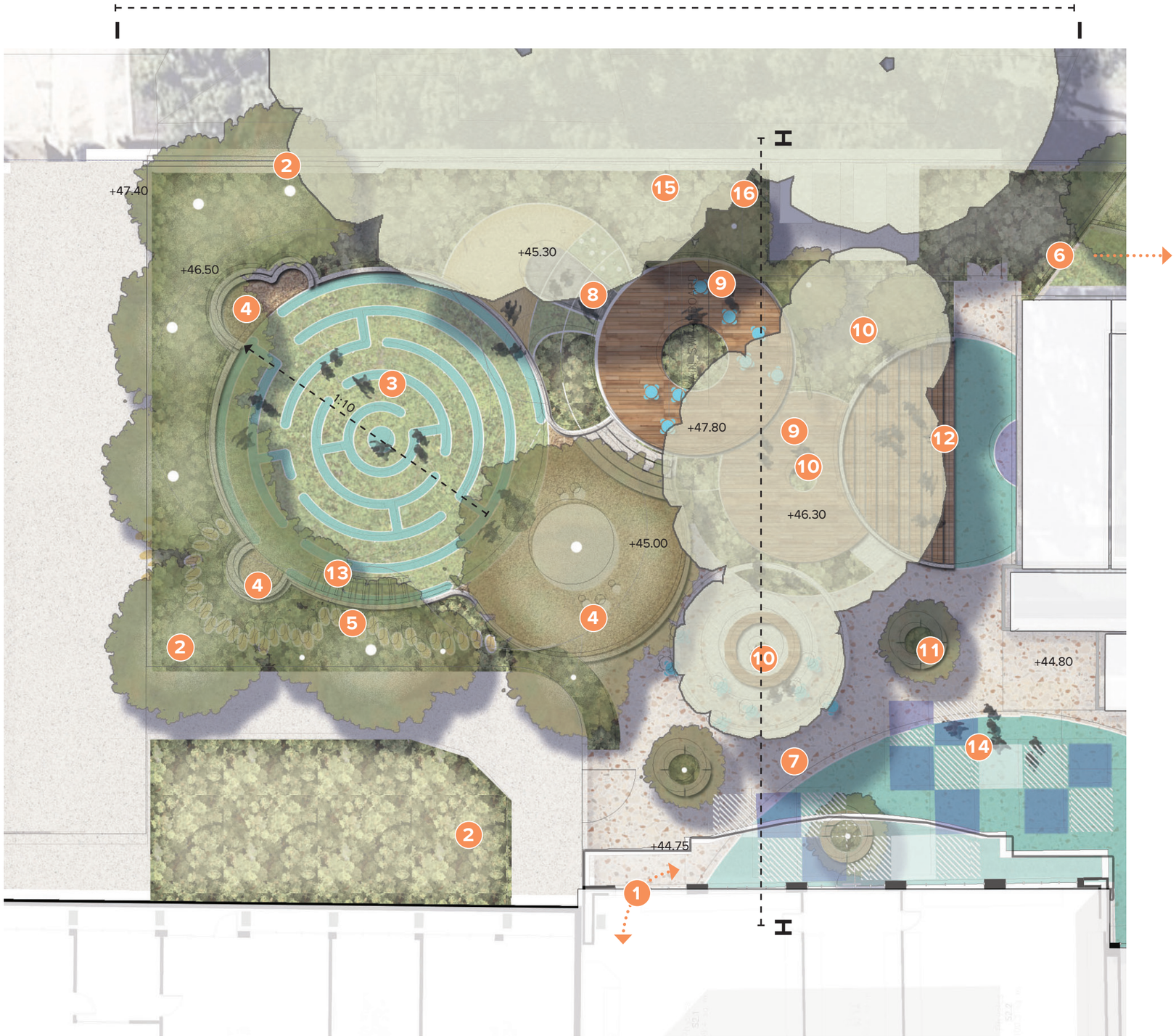
Precinct Detail Plan

Legend

1. Connection to senior school & carpark
2. Buffer planting to edges of play area
3. Open lawn space
4. Passive learning/seating area
5. Nature trail journey with interactive balance beams, stepped logs, etc
6. Vegetable patch
7. Art space with flexible seating, tables and an interactive art wall
8. Play embankment with slides and various climbing features
9. Raised decking platforms
10. Existing trees
11. Seated tree planter
12. Assembly area with amphitheatre seating (300 students)
13. Monkey bar arrangement
14. At grade handball courts
15. Play/Veggie garden storage shed
16. Access to Main Switchboard
17. Multiuse sports/fitness screen

Key Plan





ARCADIA

Trinity Grammar School - Summer Hill Campus
The Renewal Project - Landscape SSDA

1:200 @ A3

0 10m

Prepared By	Arcadia Landscape Architecture	**Date**	October 2020
Client	Trinity Grammar School	**Issue**	C
Architect	PMDL		

Junior School Play

Section H - H

1:100 @ A3

ARCADIA

Trinity Grammar School - Summer Hill Campus
The Renewal Project - Landscape SSDA

Prepared By	Arcadia Landscape Architecture	**Date**	October 2020
Client	Trinity Grammar School	**Issue**	C
Architect	PMDL		

Junior School Play

Elevation I - I

1:100 @ A3

ARCADIA

Trinity Grammar School - Summer Hill Campus
The Renewal Project - Landscape SSDA

Prepared By	Arcadia Landscape Architecture	**Date**	October 2020
Client	Trinity Grammar School	**Issue**	C
Architect	PMDL		

Seaview Street Elevation

Elevation K

Acmena smithii 'minor'
2.5m h x 2m w

Existing Fig Trees

1:1000 @ A3

ARCADIA

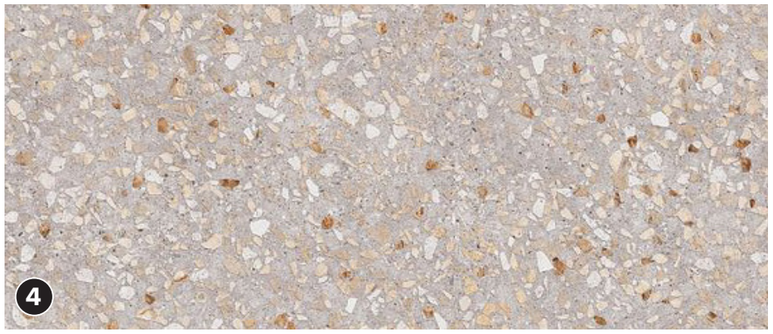
Trinity Grammar School - Summer Hill Campus
The Renewal Project - Landscape SSDA

Prepared By	Arcadia Landscape Architecture	**Date**	October 2020
Client	Trinity Grammar School	**Issue**	C
Architect	PMDL		

2.0 LANDSCAPE STRATEGIES

ARCADIA

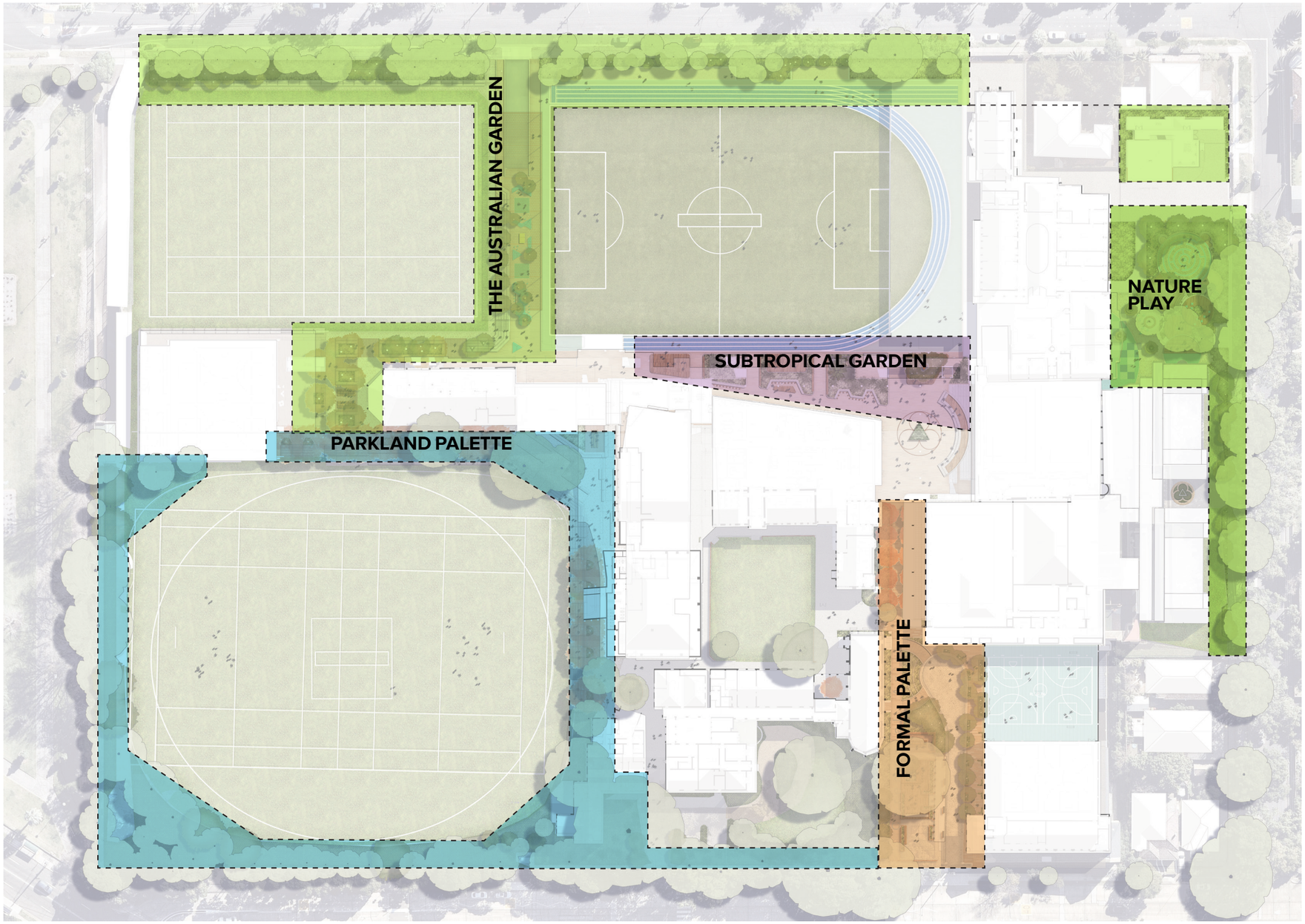
Hardscape Palette



KEY

1. Precast concrete furniture with timber fixtures
2. In situ concrete elements
3. Feature clay paving
4. Coloured concrete with exposed aggregate
5. Feature granite paving
6. Play surfaces with artificial turf features
7. Decomposed granite

Planting Strategies



Planting palette

Formal Planting

TREES

Lagerstromia indica

Magnolia grandiflora

SHRUBS + CLIMBERS

Backea imbricata

Buxus sp.

Eremopholia nivea

Tuecrium fruticans

GROUNDCOVERS

Dichondra repens 'Silver Falls'

Salvia rosmarinus

Santolina chamaecyparissus

liriope muscari

Planting palette

Subtropical Planting

UNDERCROFT TREES

Cyathea australis

UNDERCROFT SHRUBS + GROUNDCOVERS

Asplenium australasicum

Casuarina glauca

Dianella caerulea

Liriope muscari

VERTICAL PLANTING

Hardenbergia violacea

Thunbergia grandiflora

Hedera helix

Planting palette

Parkland

TREES

Agathis robusta

Corymbia ficifolia

SHRUBS, GRASSES + GROUND COVERS

Correa alba

Eremopholia nivea

Liriope muscari

Lomandra 'Tanika'

Pennisetum alopecurioides

RAIN GARDENS

Hibbertia scandens

Santolina chamaecyparissus

Hedera helix

Carex appressa

Dianella caerulea

Isolepsis nodosa

Planting palette

Nature Play

TREES

Melaleuca leucadendra

Banksia integrifolia

Tristaniopsis laurina

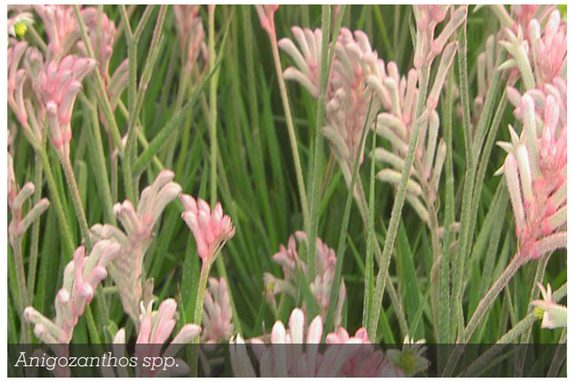
SHRUBS + GRASSES

Lomandra 'Tanika'

Pennisetum alopecurioides

Adenanthos sericeus

Correa alba


Anigozanthos spp.

GROUNDCOVERS

Westringia 'Flat n Fruity'

Dianella caerulea

Chrysocephalum semipapposum

Casuarina glauca

Planting palette

Australian Garden

TREES

Eucalyptus cinerea

Eucalyptus leucoxylon

Eucalyptus vitrix

Grevillea robusta

SHRUBS

Adenanthos sericeus

Anigozanthos spp.

Correa alba

Rhagodia spinescens

Xanthorrea resinosa

GROUNDCOVERS

Banksia spinulosa 'birthday candles'

Casuarina glauca

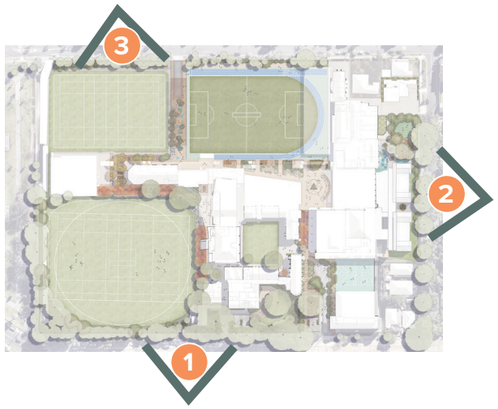
Chrysocephalum semipapposum

Carpobrotus glaucescens

Poa labillardieri

The Town Gown - The Street Address

Street Perspective Diagrams



1

Prospect Road

2

Seaview Street

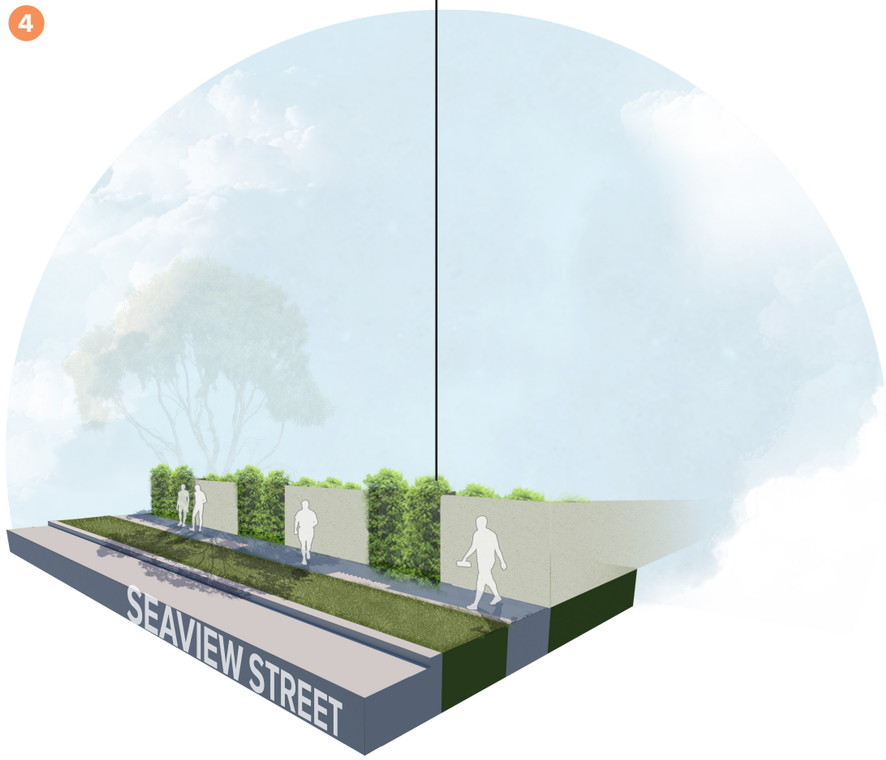
3

Victoria Street

The Town Gown - The Street Address

Street Perspective Diagrams

4



Acmena smithii 'minor'

Seaview Street - West

ARCADIA

TRINITY GRAMMER SCHOOL - THE RENEWAL PROJECT

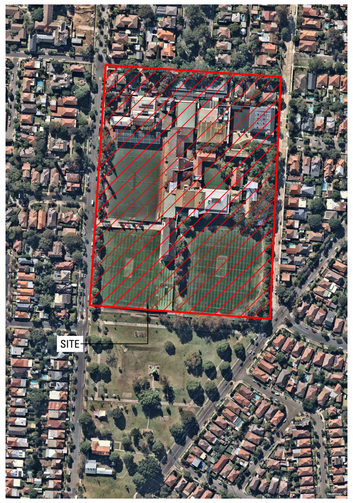
SUMMER HILL, NSW

DRAWING SCHEDULE

DRAWING NO.	DRAWING TITLE
000	COVER SHEET
100	LANDSCAPE MASTERPLAN
200	LANDSCAPE PLAN
201	LANDSCAPE PLAN
202	LANDSCAPE PLAN
203	LANDSCAPE PLAN
204	LANDSCAPE PLAN
205	LANDSCAPE PLAN
206	LANDSCAPE PLAN
501	LANDSCAPE DETAILS

LOCATION PLAN

SCALE: NTS



PLANTING SCHEDULE

18-586 TRINITY GRAMMAR PLANT SCHEDULE

CODE	BOTANIC NAME	COMMON NAME	MATURE SIZE (h x w) (m)	PROPOSED POT SIZE	QUANTITY
	TREES & PALMS				
Ar	*Agathis robusta*	Smooth-bark kauri	30 x 10	400L	12
Bi	*Banksia integrifolia*	Coast Banksia	15 x 6	200L	3
Ci	*Corymbia ficifolia 'Wildfire'*	Red Flowering Gum	6 x 4	200L	2
Ca	*Cyathea australis*	Rough Tree Fern	5 x 2	200L	4
Eci	*Eucalyptus cinerea*	Silver Shadow	12 x 8	200L	12
Elr	*Eucalyptus leucoxylon 'Rosea'*	Red Flowering Yellow Gum	15 x 7	200L	2
Evi	*Eucalyptus victrix*	Snow Queen	8 x 4	200L	7
Mg	*Magnolia grandiflora 'Little Gem'*	Dwarf Magnolia	8 x 5	200L	10
Mel	*Melaleuca leucadendra*	Weeping Paperbark	30 x 20	400L	2
Li	*Lagerstroemia indica*	Crepe Myrtle	6 x 4	200L	12
Tl	*Tristaniopsis 'Luscious'*	Luscious Water Gum	10 x 5	200L	1
	SHRUBS				
Asm	*Acmena smithii 'minor'*	Dwarf lilly pilly	2 x 2	45L	175
Bux	*Buxus*	Japanese Box	1 x 1	300 mm	20
	GRASSES				
Dc	*Dianella caerula*	Flax Lily	0.5 x 0.5	200 mm	200
Ll	*Lomandra longifolia*	Spiny Headed Mat Rush	1 x 1	150mm	220
	MP1 - AUSTRALIAN GARDEN PLANTING MATRIX				
As	*Adenanthos sericeus*	Woolly Bush	5 x 1.5	45L	1000
Ani	*Anigozanthos*	Kangaroo Paw	1 x 1	300 mm	1485
Cal	*Correa alba*	White Correa	1.5 x 1.5	45L	480
Pl	*Poa labillardierei*	Common Tussock-grass	1.2 x 1	300 mm	1410
Xr	*Xanthorrhoea resinosa*	Grass Tree	Varies x 1.5	45L	178
Bsp	*Banksia spinulosa 'Birthday Candles'*	Giant Candles Banksia	0.5 x 1	150mm	1180
Cag	*Casuarina glauca*	Cousin It	0.2 x 2	300 mm	1065
Cg	*Carpobrotus glaucescens*	Pig Face	0.25 x spreading	150mm	355
	MP2 - NATURE PLAY PLANTING MATRIX				
As	*Adenanthos sericeus*	Woolly Bush	5 x 1.5	45L	140
Ani	*Anigozanthos*	Kangaroo Paw	1 x 1	300 mm	250
Cal	*Correa alba*	White Correa	1.5 x 1.5	45L	80
Dc	*Dianella caerula*	Flax Lily	0.5 x 0.5	200 mm	240
Lt	*Lomandra 'Tanika'*	Mat Rush	0.6 x 0.6	300 mm	300
Pa	*Pennisetum alopecuroides*	Swamp Foxtail	1 x 1	300 mm	60
Cag	*Casuarina glauca*	Cousin It	0.2 x 2	300 mm	175
Csp	*Chrysocephalum semipapposum*	Clustered Everlasting	0.3 x spreading	150mm	120
Wff	*Westringia fruticosa 'Flat n Fruity'*	Pig Face	0.3 x spreading	150mm	62
	MP3 - SUBTROPICAL PLANTING MATRIX				
Aa	*Asplenium australasicum*	Birds Nest Fern	1.5 x 1.5	45L	220
Cag	*Casuarina glauca*	Cousin It	0.2 x 2	300 mm	180
Dc	*Dianella caerula*	Flax Lily	0.5 x 0.5	300 mm	360
Ljr	*Liriope muscari 'Just Right'*	Lilyturf	0.45 x 0.45	300 mm	360
Hv	*Hardenbergia violacea*	Purple coral pea	1 x spreading	150mm	220
Tgr	*Thunbergia grandiflora*	Blue Thunbergia	0.3 x spreading	150mm	145
	MP4 - FORMAL PLANTING MATRIX				
Bim	*Baeckea imbricata*	Heath Myrtle	1 x 1	300 mm	175
En	*Eremophila nivea*	Emu Bush	2 x 2	300 mm	350
Tf	*Teucrium fruticans*	Germander	1.5 x 1.5	200mm	630
Dsf	*Dichondra repens 'Silver Falls'*	Kidney Weed	0.2 x spreading	150mm	1270
Ljr	*Liriope muscari 'Just Right'*	Lilyturf	0.45 x 0.45	300 mm	620
Sr	*Salvia rosmarinus*	Rosemary	2 x 1	300 mm	460
Sch	*Santolina Chamaecyparissus*	Lavender Cotton	0.6 x .03	300 mm	740
	MP5 - PARKLAND PLANTING MATRIX				
Cal	*Correa alba*	White Correa	1.5 x 1.5	45L	40
Ljr	*Liriope muscari 'Just Right'*	Lilyturf	0.45 x 0.45	300 mm	54
Pa	*Pennisetum alopecuroides*	Swamp Foxtail	1 x 1	300 mm	78
Hs	*Hibbertia scandens*	Snake Vine	0.15 x spreading	150mm	40
Sch	*Santolina Chamaecyparissus*	Lavender Cotton	0.6 x .03	300 mm	26
Hh	*Hedera helix*	Ivy	0.5 x Spreading	150mm	32

Legend

Key Plan

ARCADIA

TRINITY GRAMMER SCHOOL/SUMMER HILL

STATE SIGNIFICANT DEVELOPMENT APPLICATION

PREPARED BY	Arcadia Landscape Architecture	DATE	Oct 2020
CLIENT	Trinity Grammer School	SCALE	
ARCHITECT	PMDL	ISSUE	C

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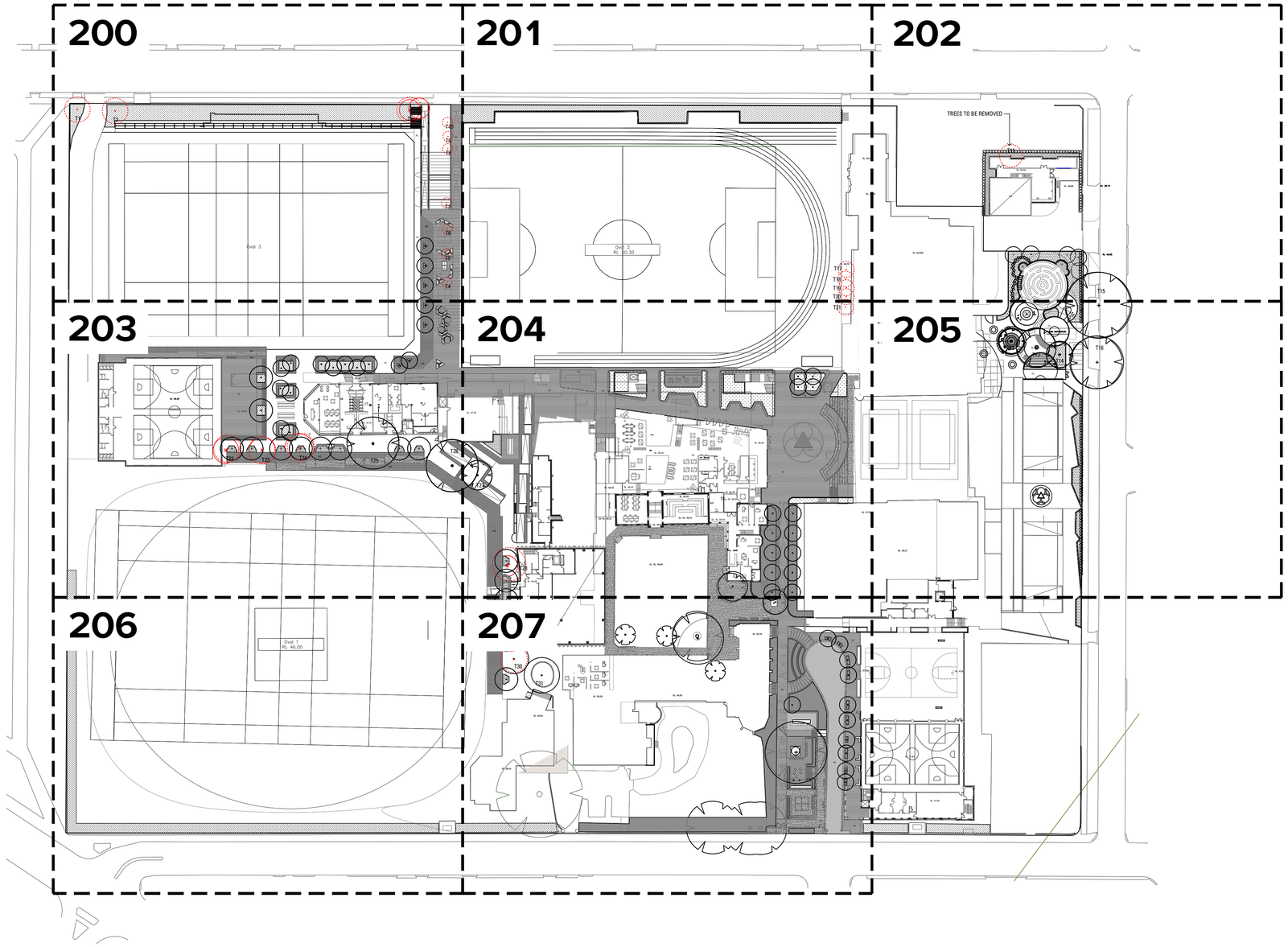
LANDSCAPE MASTER PLAN



Legend

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- P2 CONCRETE PAVING — Refer Landscape Specification
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SOFTWORKS

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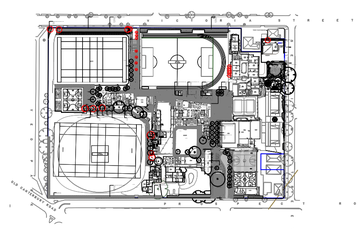

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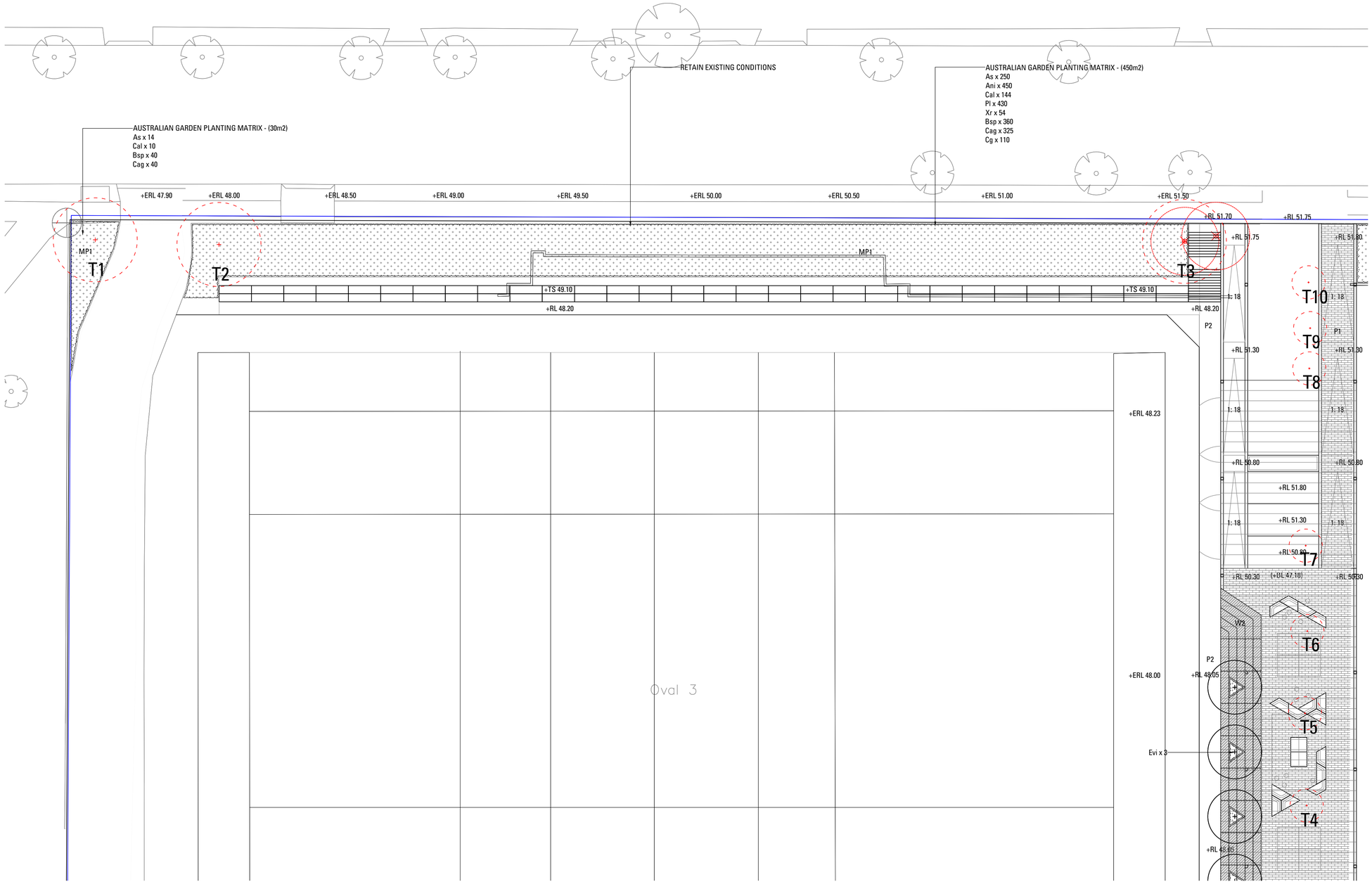

Legend

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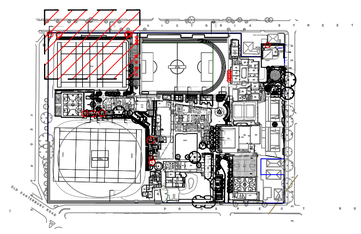

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TRINITY GRAMMER SCHOOL/SUMMER HILL

STATE SIGNIFICANT DEVELOPMENT APPLICATION

1:200 @ A1

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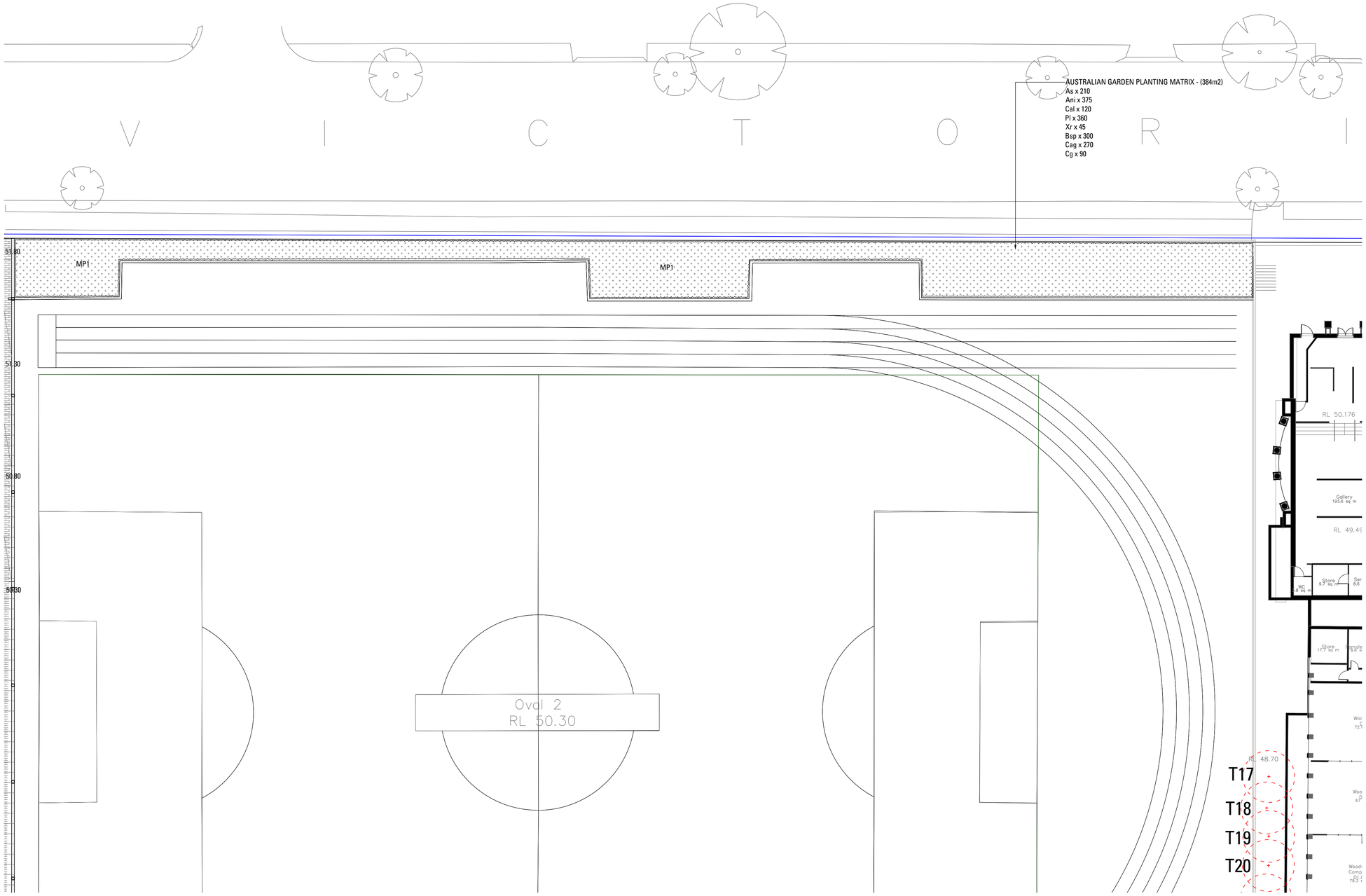

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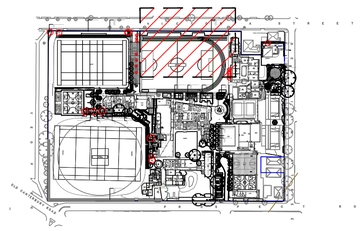

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TRINITY GRAMMER SCHOOL/SUMMER HILL

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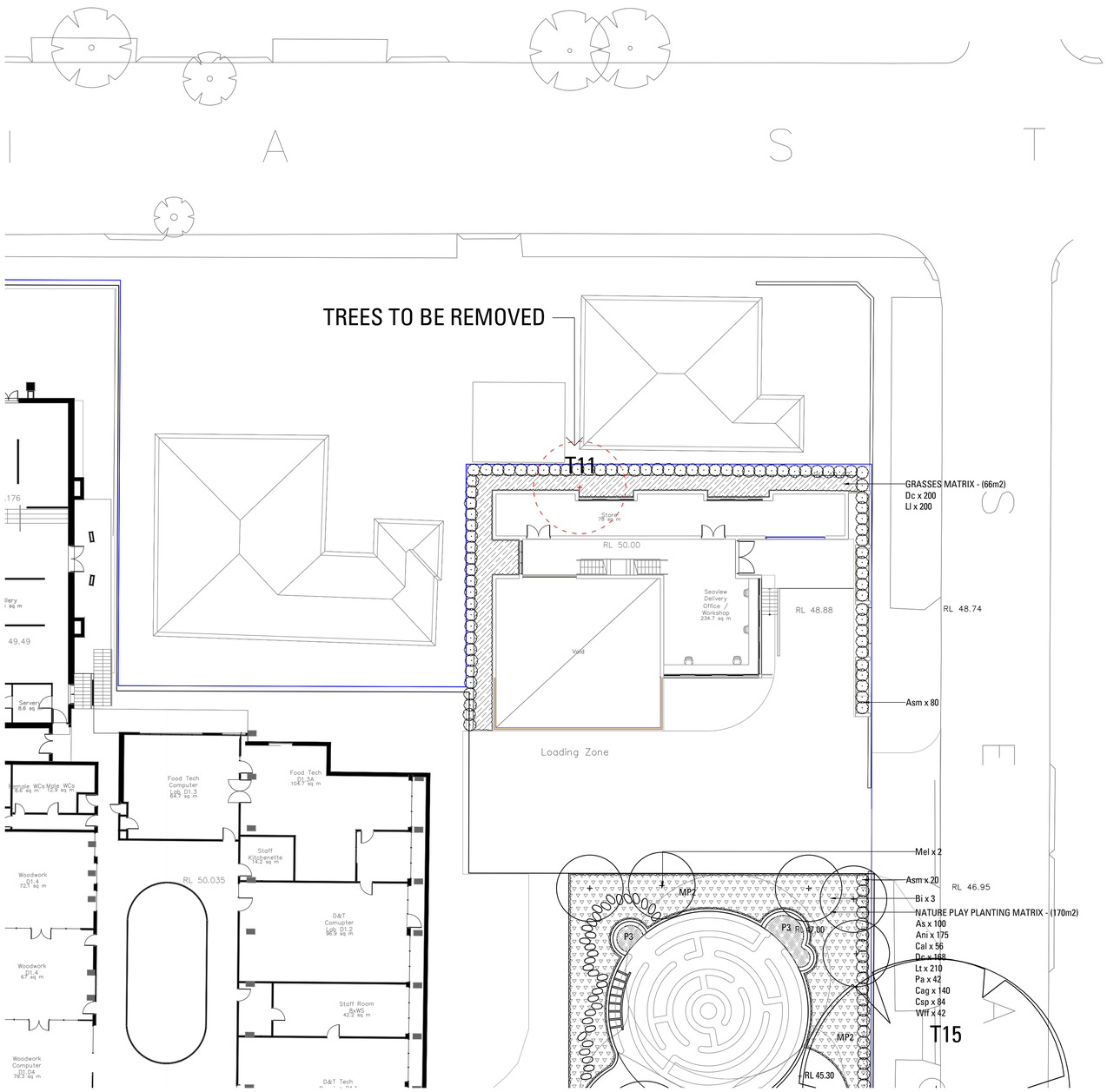

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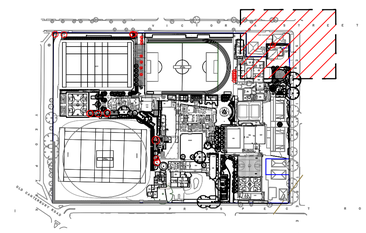

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TRINITY GRAMMER SCHOOL/SUMMER HILL

STATE SIGNIFICANT DEVELOPMENT APPLICATION

1:200 @ A1

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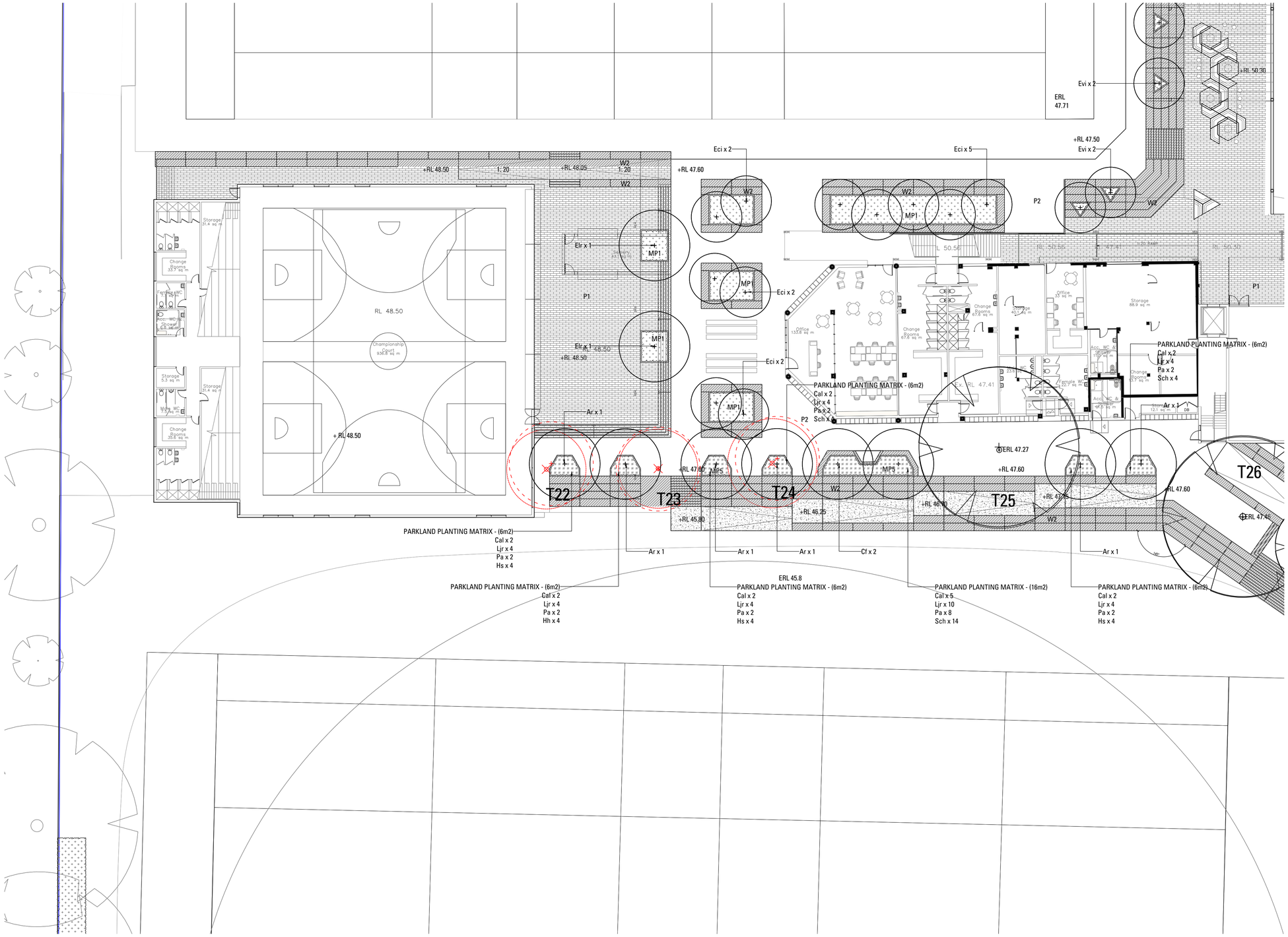
LANDSCAPE PLAN



Legend

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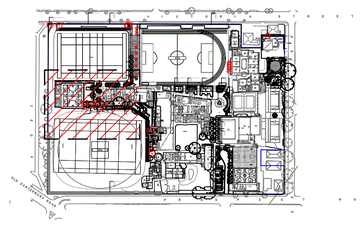

ARCADIA

TRINITY GRAMMER SCHOOL/SUMMER HILL

STATE SIGNIFICANT DEVELOPMENT APPLICATION

1:200 @ A1

0 1 2 4 6 10m

PREPARED BY	Arcadia Landscape Architecture	DATE	Oct 2020
CLIENT	Trinity Grammer School	SCALE	1:200 @ A1
ARCHITECT	PMDL	ISSUE	C

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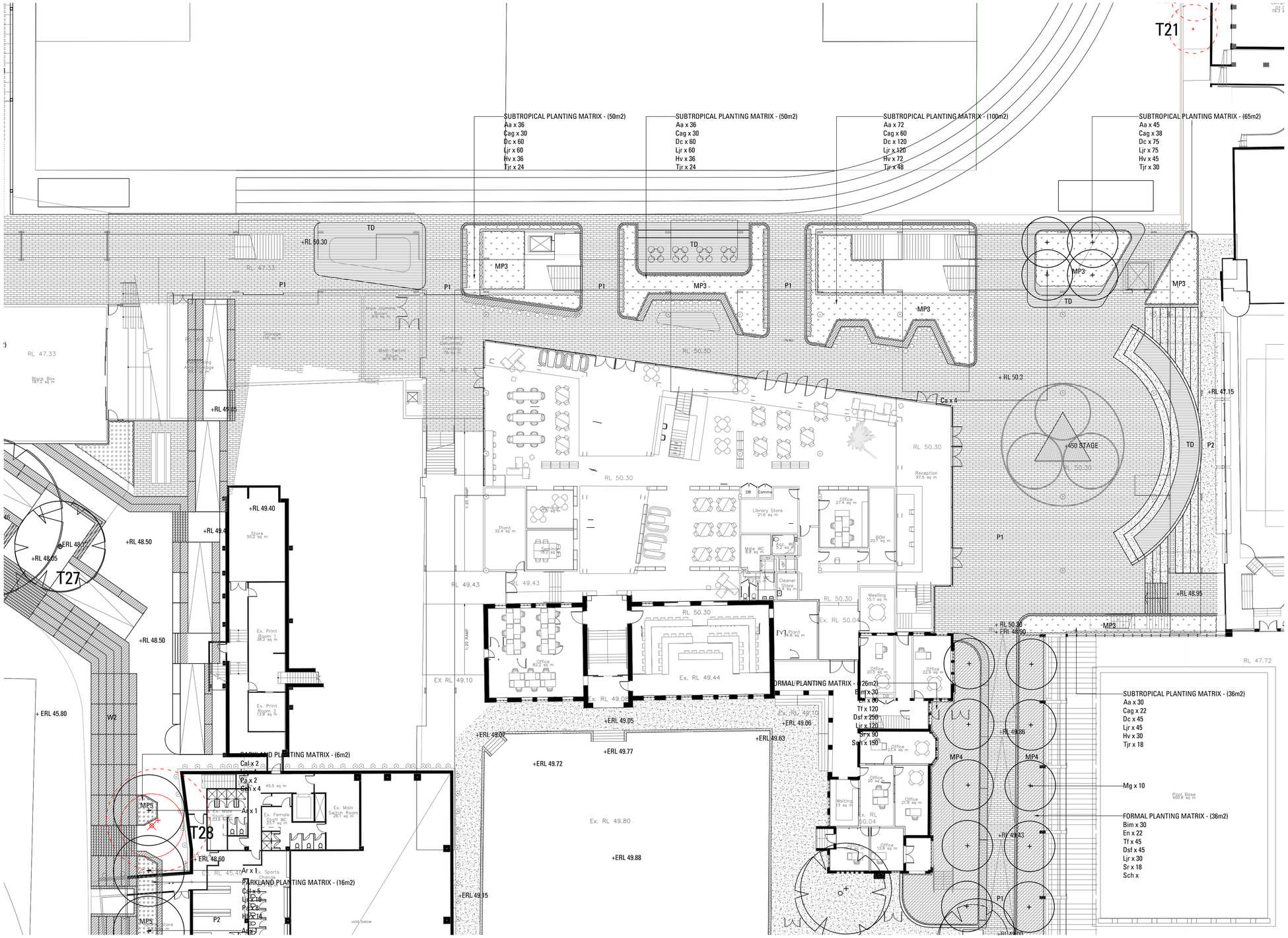

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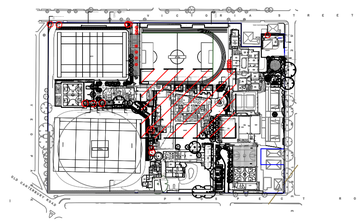

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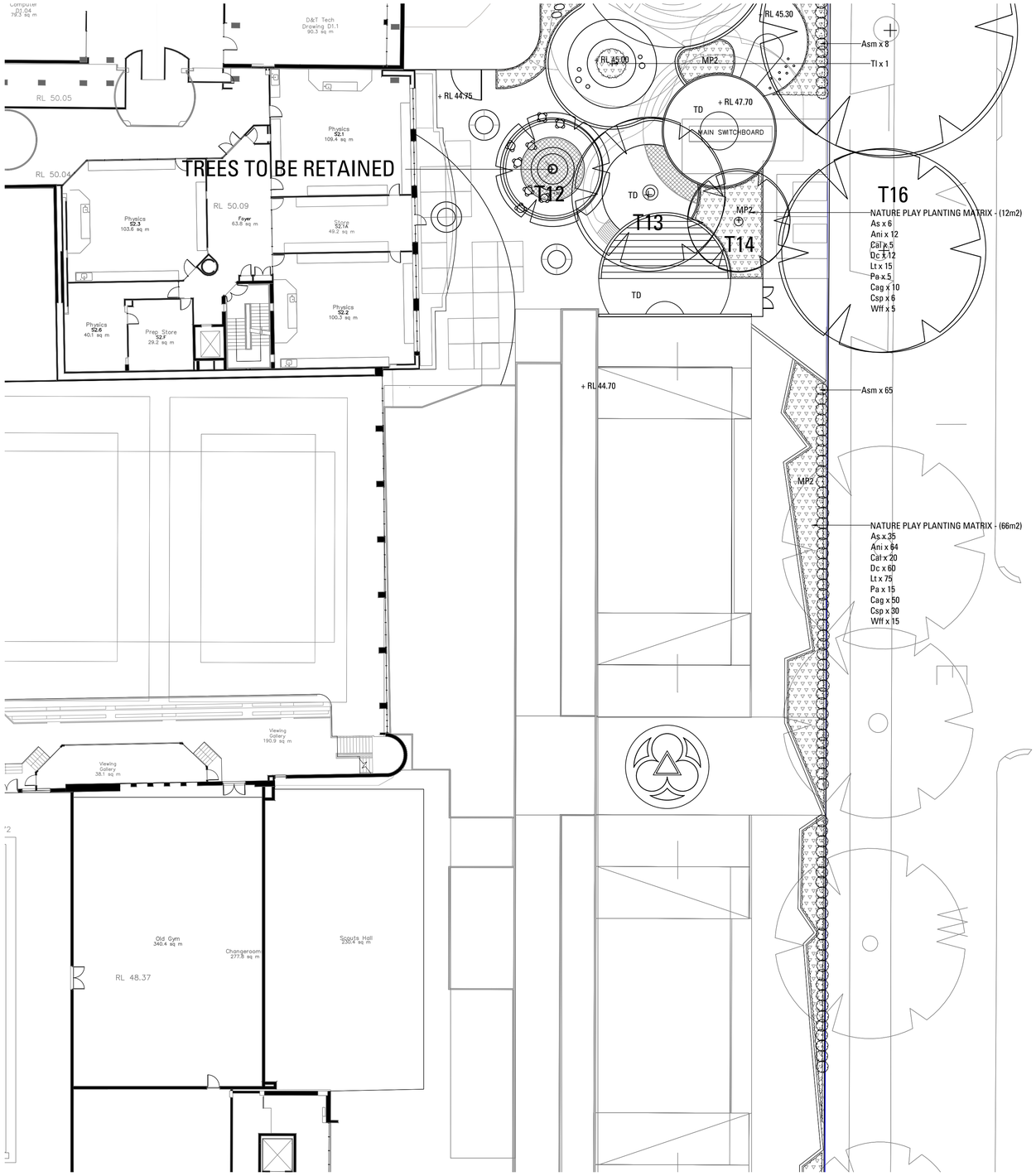

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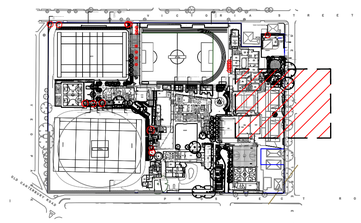

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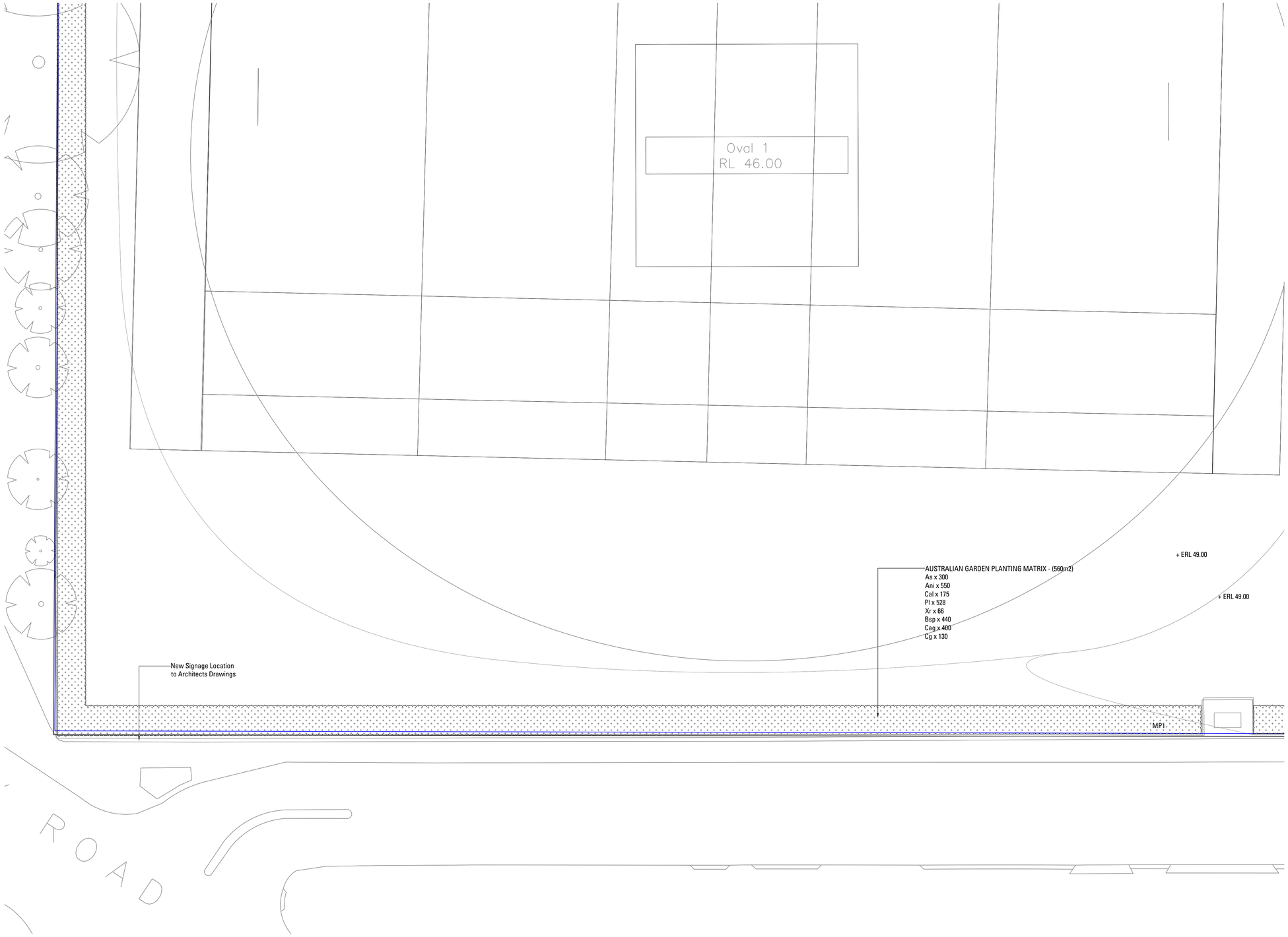

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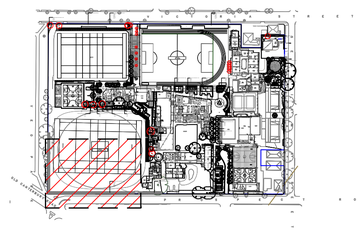

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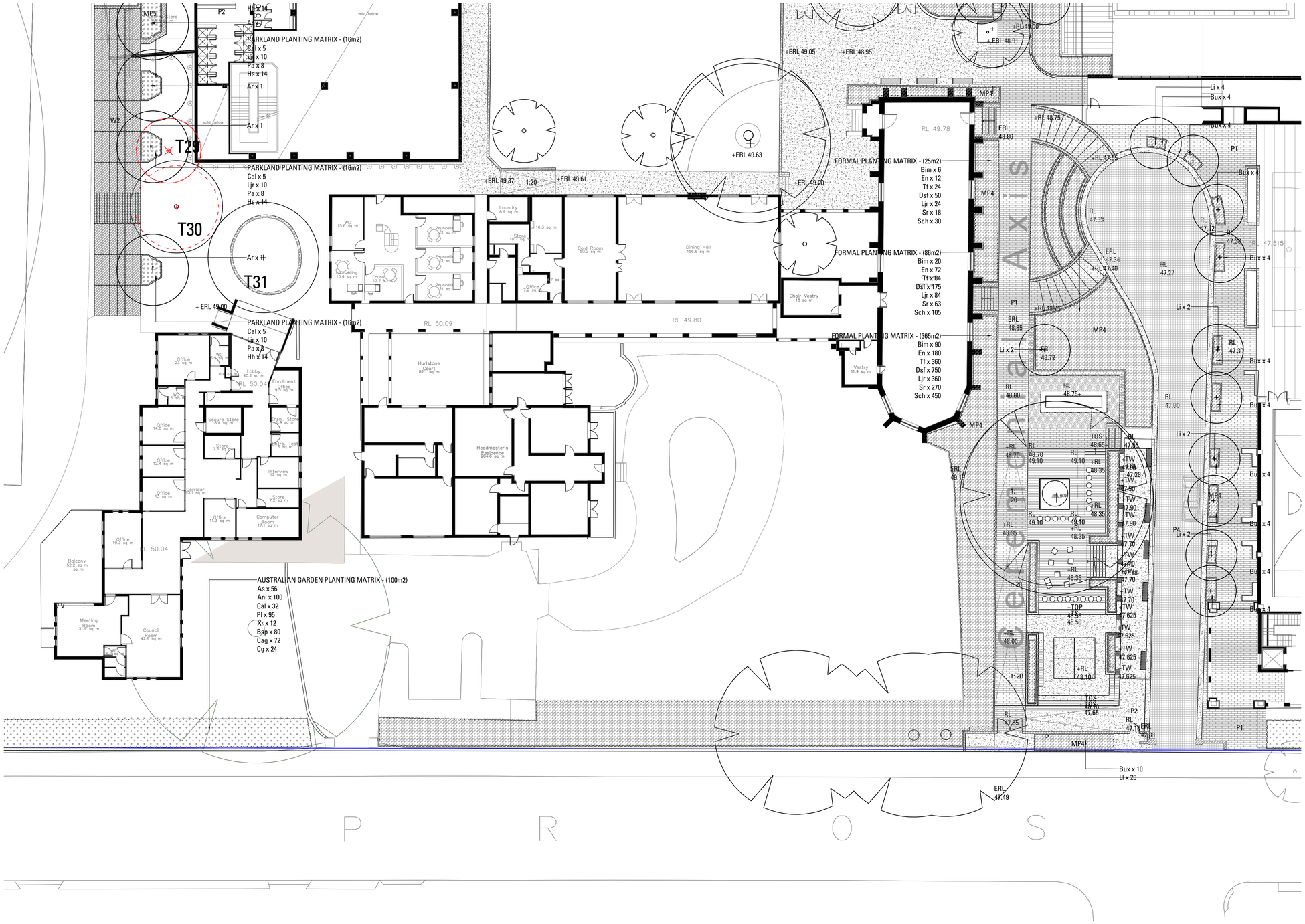

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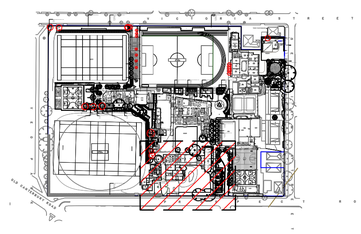

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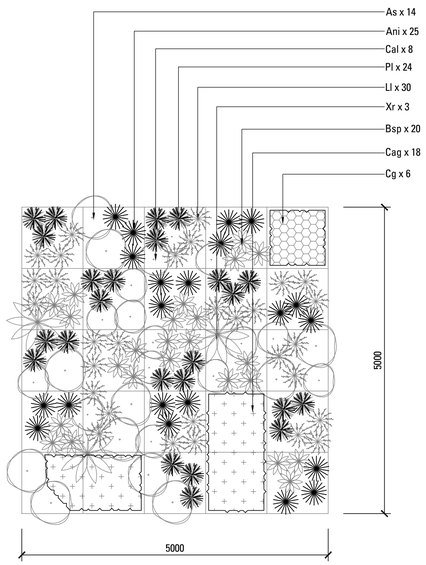
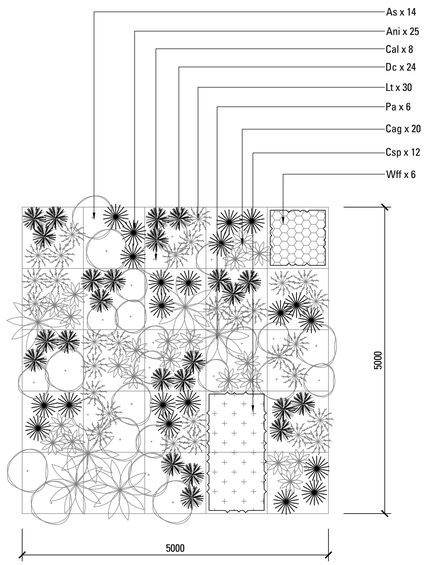
LANDSCAPE DETAILS AND SPECIFICATION

601



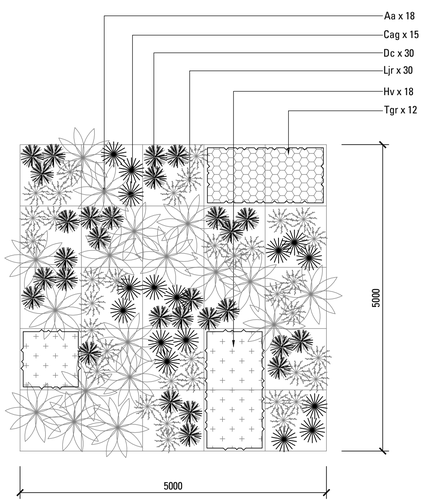
01 / 601 MP1 - AUSTRALIAN GARDEN PLANTING MATRIX - 5m x 5m
SCALE 1:50

NOTE: DETAIL IS INDICATIVE ONLY, PLANT ALL SPECIES RANDOMLY AT AM OVERALL RATE OF 6/m2



02 / 601 MP2 - NATIVE PLAY PLANTING MATRIX - 5m x 5m
SCALE 1:50

NOTE: DETAIL IS INDICATIVE ONLY, PLANT ALL SPECIES RANDOMLY AT AM OVERALL RATE OF 6/m2



03 / 601 MP3 - SUBTROPICAL PLANTING MATRIX - 5m x 5m
SCALE 1:50

NOTE: DETAIL IS INDICATIVE ONLY, PLANT ALL SPECIES RANDOMLY AT AM OVERALL RATE OF 6/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 MIXTURE
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.

MULCH TYPE
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 MATERIAL
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.

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.

IRRIGATION 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 SUPPLY.

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.

Legend

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.

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.

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 REMOVAL
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.

PRUNING
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.

Key Plan

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.

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.

ARCADIA

TRINITY GRAMMER SCHOOL/SUMMER HILL
STATE SIGNIFICANT DEVELOPMENT APPLICATION

PREPARED BY	Arcadia Landscape Architecture	DATE	Oct 2020
CLIENT	Trinity Grammer School	SCALE	
ARCHITECT	PMDL	ISSUE	C

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