



LANDSCAPE CONCEPT MASTERPLAN

WHITE HILLS PRIMARY SCHOOL
PLUMRIDGE STREET
WHITE HILLS

FOR:
WHITE HILLS PRIMARY SCHOOL

REVISION:
B - NOVEMBER 2013



BrendanBartlett
landscape architecture and design

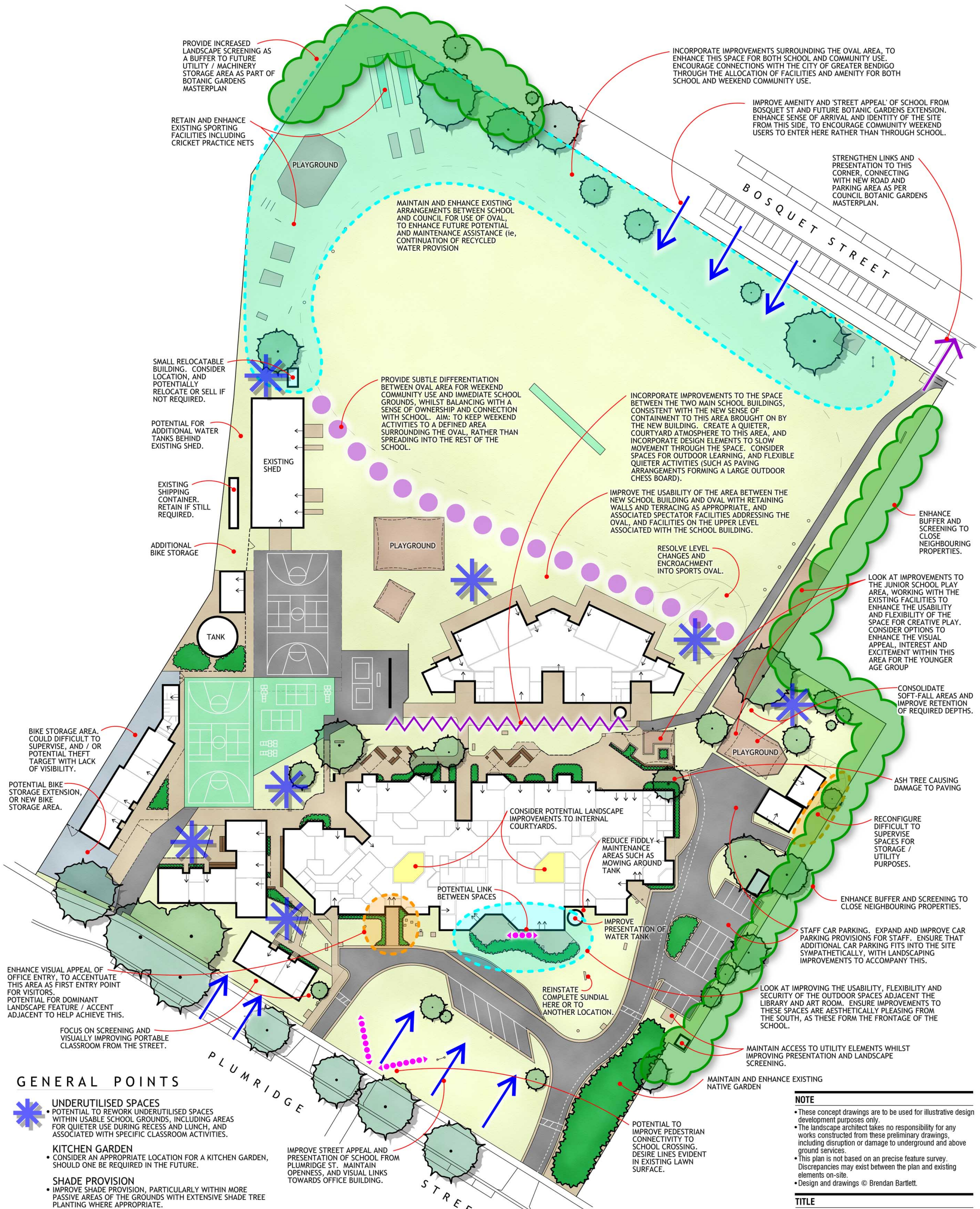
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GENERAL POINTS

- UNDERUTILISED SPACES**
 - POTENTIAL TO REWORK UNDERUTILISED SPACES WITHIN USABLE SCHOOL GROUNDS, INCLUDING AREAS FOR QUIETER USE DURING RECESS AND LUNCH, AND ASSOCIATED WITH SPECIFIC CLASSROOM ACTIVITIES.
- KITCHEN GARDEN**
 - CONSIDER AN APPROPRIATE LOCATION FOR A KITCHEN GARDEN, SHOULD ONE BE REQUIRED IN THE FUTURE.
- SHADE PROVISION**
 - IMPROVE SHADE PROVISION, PARTICULARLY WITHIN MORE PASSIVE AREAS OF THE GROUNDS WITH EXTENSIVE SHADE TREE PLANTING WHERE APPROPRIATE.
- LANDSCAPE CONSISTENCY**
 - CREATE A GREATER LEVEL OF LANDSCAPE CONSISTENCY AND COHERENCE THROUGHOUT THE SCHOOL, TO ENHANCE A SENSE OF IDENTITY WITHIN THE GROUNDS.
 - THIS COULD INCLUDE SOME REOCCURRING LANDSCAPE THEMES, AND/OR SOME CONSISTENCY OF PLANT SPECIES THROUGHOUT THE SITE.
- MAINTENANCE ITEMS**
 - REDUCE AND REWORK LANDSCAPE AREAS WHICH ARE UNNECESSARILY FIDDLY AND DIFFICULT TO MAINTAIN, SUCH AS SMALL UNUSABLE ALCOVES CONTAINING LAWN TO MOW.
 - INCORPORATE LOW MAINTENANCE LANDSCAPE MATERIALS, TECHNIQUES, AND PLANT SELECTIONS, INCLUDING RE-WORKING OF EXISTING GARDEN AREAS WHERE REQUIRED.

IMPROVE STREET APPEAL AND PRESENTATION OF SCHOOL FROM PLUMRIDGE ST. MAINTAIN OPENNESS, AND VISUAL LINKS TOWARDS OFFICE BUILDING.

NOTE

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TITLE
SITE ANALYSIS
OPPORTUNITIES / CONSTRAINTS

DRAWING NO: LA-02 **REVISION:** B - 18.11.2013

SCALE: 1:800 @ A3 1:400 @ A1 **NORTH**

KEY ELEMENTS REFER SHEET LA-04 FOR FURTHER DETAIL

- A** NEW CARPARK
- B** MAIN SCHOOL ENTRY
- C** REINSTATED SUNDIAL
- D** LIBRARY AND ART ROOM COURTYARDS
- E** PORTABLE CLASSROOMS / SCHOOL EXPANSION
- F** NEW BIKE ENCLOSURE
- G** CENTRAL PASSIVE AREA
- H** COVERED WALKWAY
- I** NO HAT TREE
- J** JUNIOR NATURAL PLAY ZONE
- K** JUNIOR PASSIVE AREA
- L** LOCATION FOR POTENTIAL KITCHEN GARDEN
- M** NEW GROUNDS MAINTENANCE SHED
- N** OVAL SPECTATOR AREAS
- O** OVAL / SCHOOL ABUTTAL
- P** SCREEN PLANTING
- Q** OUTDOOR CHESS BOARD
- R** SITTING AREA OUTSIDE ROOM 16



REFER SHEET LA-05 FOR PLAN LEGEND

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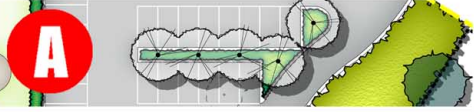
TITLE
OVERALL SITE PLAN

DRAWING NO: LA-03 **REVISION** B - 18.11.2013

SCALE 1:800 @ A3 1:400 @ A1 **NORTH**

0 2 4 8 12 20m

KEY ELEMENTS



NEW CARPARK

- To maintain and enhance open, inviting and safe nature of school entry, frontage is divided into two sections with only one half incorporating vehicular access and carpark.
- Single entry and exit point avoids confusion, and makes better use of space with less unnecessary roadways.
- Maintains good presentation and street appeal, with planting to break up carpark and shade trees incorporated.
- Turns what is currently 6 designated parking spaces into 36 including two disabled spaces.
- Incorporating 16 designated spaces to be retained (for time being), creates a total of 52 designated spaces.



MAIN SCHOOL ENTRY

- Designated and formalised pedestrian access, with improved connectivity to school crossing.
- Central raised garden area with sculptural element, shade trees and seating.
- Creates a sense of arrival, and accentuates office as the main entry for visitors.
- Improves visual appeal of school frontage.
- Provides seating opportunities for children waiting to be picked up.



REINSTATED SUNDIAL

- Currently located to south-east of main building (and partly in storage), to be reinstated adjacent entry as a feature.
- Good northern sun exposure.



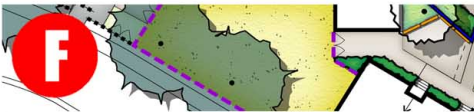
LIBRARY AND ART ROOM COURTYARDS

- For art activities suitable for outdoors, outdoor reading and classes associated with library.
- Masonry wall at front angled to tie in with building form, to 2.0m high with fixed seating behind.
- Slatted screen fences to either side, providing security and privacy with gates for access.
- Gate connecting the two spaces can be opened to connect through, to enhance the flexibility of the space.
- Potential covered verandahs shown dashed on plan, possibly pitched upwards and incorporate polycarbonate cladding to let as much light in as possible.
- Concrete paved surface with non-slip broom finish to enhance safety and usability on south side of building.
- Screens off water tank, improves and modernises school frontage.



PORTABLE CLASSROOMS / SCHOOL EXPANSION

- Spaces allocated for potential inclusion in the future, where access is good and portable classrooms can be added with minimal earthworks and modifications.
- Removable bollards can be added to restrict vehicular access around classrooms.
- Area identified to east of main school building for potential intensive building works / extension of existing building should greater need arise.



NEW BIKE ENCLOSURE

- Improved safety, visibility, security and access than the existing setup.
- Makes efficient use of a difficult to utilise space.
- Surrounded with black tubular steel fencing to 2.0m high, so visibility is maintained but area still presents well from the street.



CENTRAL PASSIVE AREA

- Designed to slow down movement through the long narrow space.
- Furniture layout breaks up straight access lines through existing concrete paving.
- Angular layout is applied central area to detract from surrounding straight lines.
- These shapes pick up on the existing seating, building footprint, and symmetry of Peter Davey Building, for a coherent design.
- Shade provision with deciduous trees to allow winter sun.
- Seating surrounding trees to maximise shade benefit, and help protect trees from damage.



COVERED WALKWAY

- Linking rear of main school building to western entry of Peter Davey Building.
- Over existing paved walkway, can be added anytime in short or long term.



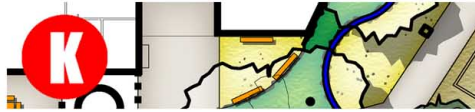
NO HAT TREE

- As requested, seating provision surrounding existing tree for established shade.



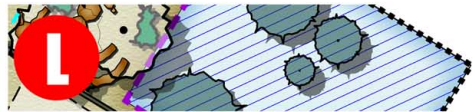
JUNIOR NATURAL PLAY ZONE

- Play garden, for adventure and creative play.
- Rock / boulders placed randomly at a variety of sizes, interspersed with hardy plants, logs etc, all within soft-fall mulch surface.
- Connects existing junior playground and sandpit area as one play zone.
- This theme is continued along the batter to the west of the kitchen garden area. Rocks embedded in the batter adds interest.



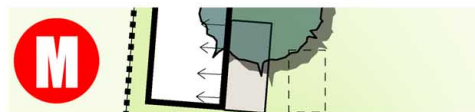
JUNIOR PASSIVE AREA

- Separated from more active play areas by walking path.
- Low seating / retaining wall at appropriate height for junior children - takes up grade change and provides additional seating opportunities.
- Trees to north-west provide additional shade, in conjunction with proposed shade sail.



LOCATION FOR POTENTIAL KITCHEN GARDEN

- Conflict with direct residential abuttal means area is only suitable for quite passive uses such as a kitchen garden.
- Incorporates existing orchard trees.
- Utilises existing shed for equipment storage, and area behind shed for additional materials storage (topsoil, mulch, compost etc).
- Area to be fenced with 1.8-2.0m high black chainmesh fence for security, whilst maintaining visual permeability.



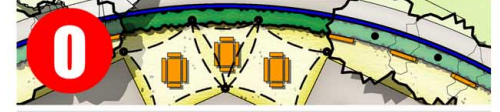
NEW GROUNDS MAINTENANCE SHED

- To make up for shed space lost to kitchen garden.
- Shed can be partitioned off to provide space for energy breakthrough.
- 6x12m shed nominated (equivalent to standard four-car garage). Larger shed could be incorporated.
- Existing relocatable building at this location to be removed or relocated.
- Potential for additional grounds maintenance storage behind adjacent sports shed.



OVAL SPECTATOR AREAS

- Simple arrangement, curved seating wall with shade trees behind, located either side of oval.
- Helps to formalise the oval setting.
- Provided on both sides, for potential use by two opposing teams.
- Southern area helps provide differentiation between oval and school for weekend sports users.
- Southern area includes a flag pole, for potential use at outdoor assemblies etc, with seating used by staff to address students.



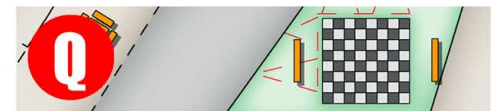
OVAL / SCHOOL ABUTTAL

- Low retaining wall (at comfortable seating height - between 350-500mm high). Takes up level change to provide terraced, more usable areas.
- Wall, trees and planting provide differentiation between oval area and school grounds for weekend users, in conjunction with southern spectator area.
- Deciduous trees are incorporated at relatively tight spacing, for summer shade to seats and building, whilst letting winter sun through.
- Shade sails are also nominated as shown.



SCREEN PLANTING

- Screen / buffer planting to future council utility / machinery storage abuttal as part of Botanic Gardens Masterplan.
- It is advisable to get planting underway in the short term, so screen can potentially be established and effective by the time the council depot plan is implemented.



OUTDOOR CHESS BOARD

- Arrangement of 500x500mm unit pavers in dark and light colour to form a chess board.
- Potential to store chess pieces in adjacent fixed deck seating with minor modifications.



SITTING AREA OUTSIDE ROOM 16

- Area for potential extension of classroom activities.
- Provides a waiting area associated with new bike enclosure for use before and after school.
- Existing sleeper retaining wall in poor condition to be replaced.
- Additional planting against portable classroom enhances visual amenity from main office entry area.
- Deciduous tree towards north-west for shade and amenity, whilst maintaining winter sun.

TITLE

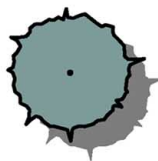
KEY ELEMENTS

DRAWING NO:

REVISION

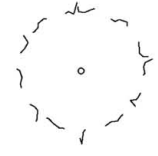
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B - 18.11.2013



EXISTING TREE

- To be retained and protected during any works.



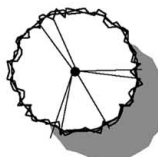
EXISTING TREE TO BE REMOVED

- As noted.



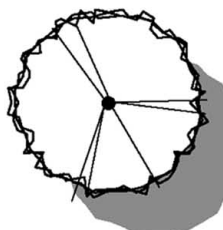
PROPOSED DECIDUOUS TREE

- As noted.
- To provide summer shade, and enable sunlight penetration during winter months.
- Recommended species as below.
- Select single species for each cluster or row of trees for consistency.
- Pyrus calleryana* 'Chanticleer' (Chanticleer Ornamental Pear) d
- Pyrus calleryana* 'Aristocrat' (Aristocrat Ornamental Pear) d
- Gleditsia triacanthos* 'Sunburst' (Golden Honey Locust) d
- Gleditsia triacanthos* 'Shademaster' ('Shademaster' Honey Locust) d
- Acer negundo* 'Sensation' (Box Elder Maple) d
- Fraxinus pennsylvanica* 'Cimzam' (Cimmaron Ash) d



PROPOSED MEDIUM SIZED EVERGREEN TREE

- As noted.
- Selected for year-round green, softening and native appearance.
- Recommended species as below.
- Select single species for each cluster or row of trees for consistency.
- Eucalyptus scoparia* (Wallangarra White Gum) n
- Acacia implexa* (Lightwood) i
- Allocasuarina verticillata* (Drooping Sheoak) i
- Fraxinus griffithii* (Evergreen Ash) - Formal option.



PROPOSED LARGE SIZED EVERGREEN TREE

- As noted.
- Selected for year-round green, softening and native appearance.
- Recommended species as below.
- Large sized species for bulk, scale and amenity at specific locations, but all quality reliable species.
- Select single species for each cluster or row of trees for consistency.
- Corymbia maculata* (Spotted Gum) n
- Corymbia citriodora* (Lemon Scented Gum) n
- Eucalyptus leucoxylon* (Yellow Gum) i



PROPOSED SCREEN PLANTING

- To provide a visual screen and buffer, particularly to future council depot associated with botanic gardens.
- All planting medium to tall busy shrubs / small trees.
- Recommended species as below.
- Callistemon* 'Kings Park Special' or 'Harkness' (Red Flowering Bottlebrush) n
- Acacia implexa* (Lightwood) i
- Acacia pycnantha* (Golden Wattle) i
- Acacia acinacea* (Gold Dust Wattle) i
- Acacia howittii* (Sticky Wattle) n
- Allocasuarina muelleriana* (Slaty Sheoak) i
- Melaleuca decussata* (Totem Poles) i



PROPOSED MASSED PLANTING

- Mix of low growing shrubs, tufted plants and groundcovers to compliment existing garden planting.
- All hardy species requiring a minimum of water and maintenance once established.
- Plant in clusters of 3-5 of the same species together for layering effect.
- Recommended species as below.

SMALL / MEDIUM SHRUBS

- Correa glabra* (Rock Correa) i
- Correa* 'Dusky Bells' (Dusky Bells Correa) n
- Westringia fruticosa* (Coast Rosemary) n
- Callistemon* 'Little John' (Little John Callistemon) n
- Convolvulus cneorum* (Silverbush)

TUFTED PLANTS

- Lomandra longifolia* (Spiny-Headed Mat-Rush) i
- Lomandra* 'Tanika' (Tanika Mat Rush) n
- Dietes iridioides* (Dietes) - great for difficult hot or shady locations.
- Poa labillardieri* (Common Tussock Grass) i

GROUNDCOVERS

- Myoporum parvifolium* (Creeping Boobialla) i
- Enchylaena tomentosa* (Ruby Salt Bush) i
- Eremophila Kalbarri Carpet* (Prostrate Emu Bush) n



EXISTING / PROPOSED LAWN SURFACE

- To be retained and / or reinstated where appropriate.



PROPOSED ARTIFICIAL TURF SURFACE

- To restricted nominated locations, providing an attractive, soft and usable surface where traditional lawn or turf is difficult to establish or maintain.



EXISTING / PROPOSED ASPHALT SURFACE



EXISTING / PROPOSED CONCRETE SURFACE

- Hard wearing and straightforward surfacing.
- Non-slip broom finish for safety.



CONTRASTING PAVED SURFACE

- Contrasting dark coloured or exposed aggregate concrete, as a feature to front office entry and central passive area.



COMPACTED GRANITIC SAND SURFACE

- Compacted hardwearing surface.
- Add white cement during compaction to assist with stabilisation.



EXISTING FENCING TO BE RETAINED

- As noted.



PROPOSED NEW FENCING

- To areas such as new bike enclosure, kitchen garden area, and new courtyards.
- Refer plan notes and key elements detail.



EXISTING / PROPOSED BENCH SEAT

- Proposed seating specification:
- Supplier - Felton Industries.
- Product - Above Ground Aluminium Bench Seat.
- 2.0m or 3.0m length as nominated on plan.



PROPOSED TABLE SETTING

- Proposed seating specification:
- Supplier - Felton Industries.
- Product - Jumbo Park Setting (larger) and Compact Park Setting (smaller square) - Aluminium Bolt Down.



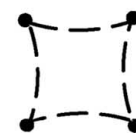
PROPOSED RETAINING WALL / FREESTANDING WALL

- As noted.
- Straight walls can be constructed from a variety of methods. Concrete sleepers within 'H' section steel uprights are a recommended method.
- Curved walls - recommend allen block interlocking masonry retaining wall system, such as Adbri Masonry 'AB Junior' or 'Miniwall'.



SOFT FALL MULCH

- To play areas, at appropriate recommended depths.



EXISTING / PROPOSED SHADE SAIL

- As noted.



PROPOSED BATTER / SURFACE SLOPE



PROPOSED SCULPTURAL ELEMENT / ACCENT

- As noted, to raised garden bed in front of school.
- Sculpture can be selected, commissioned, undertaken by students, or by a visiting artist with student input as an educational experience.

TITLE

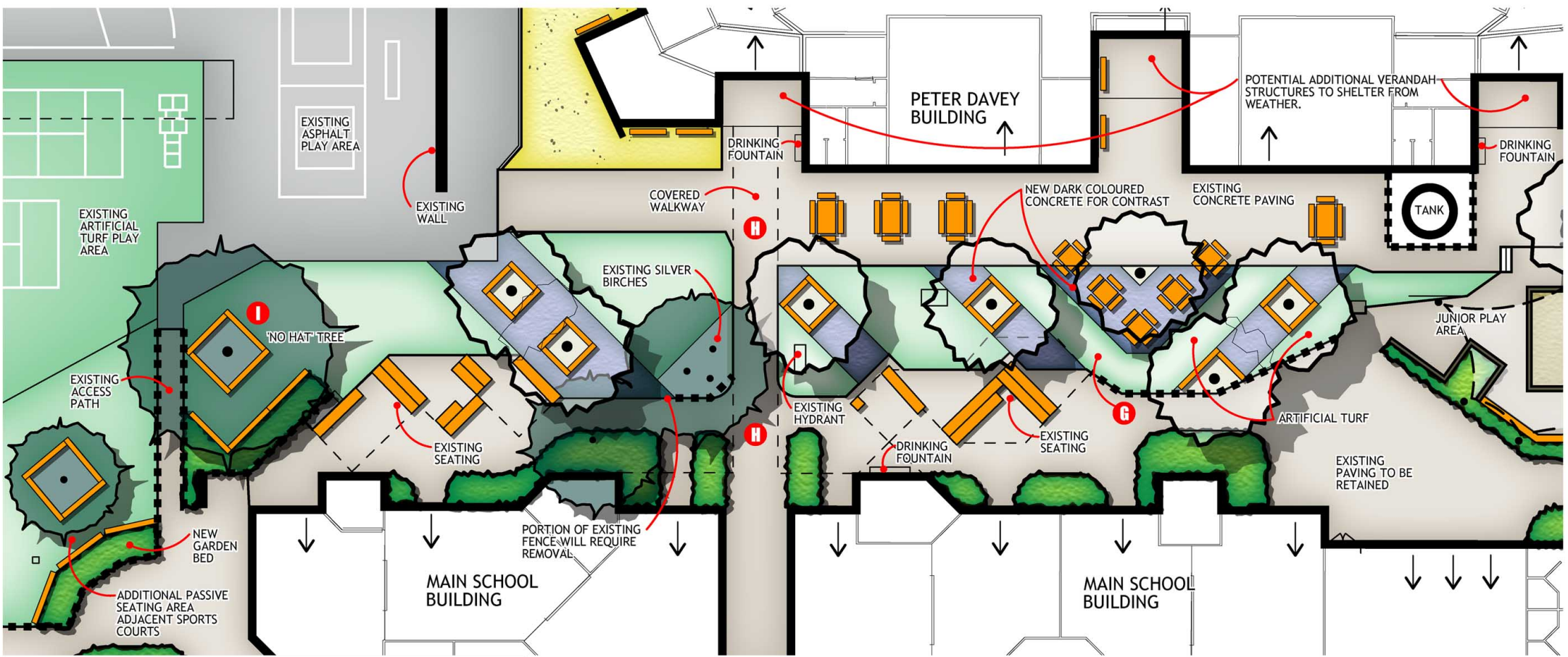
MASTER LEGEND

DRAWING NO:

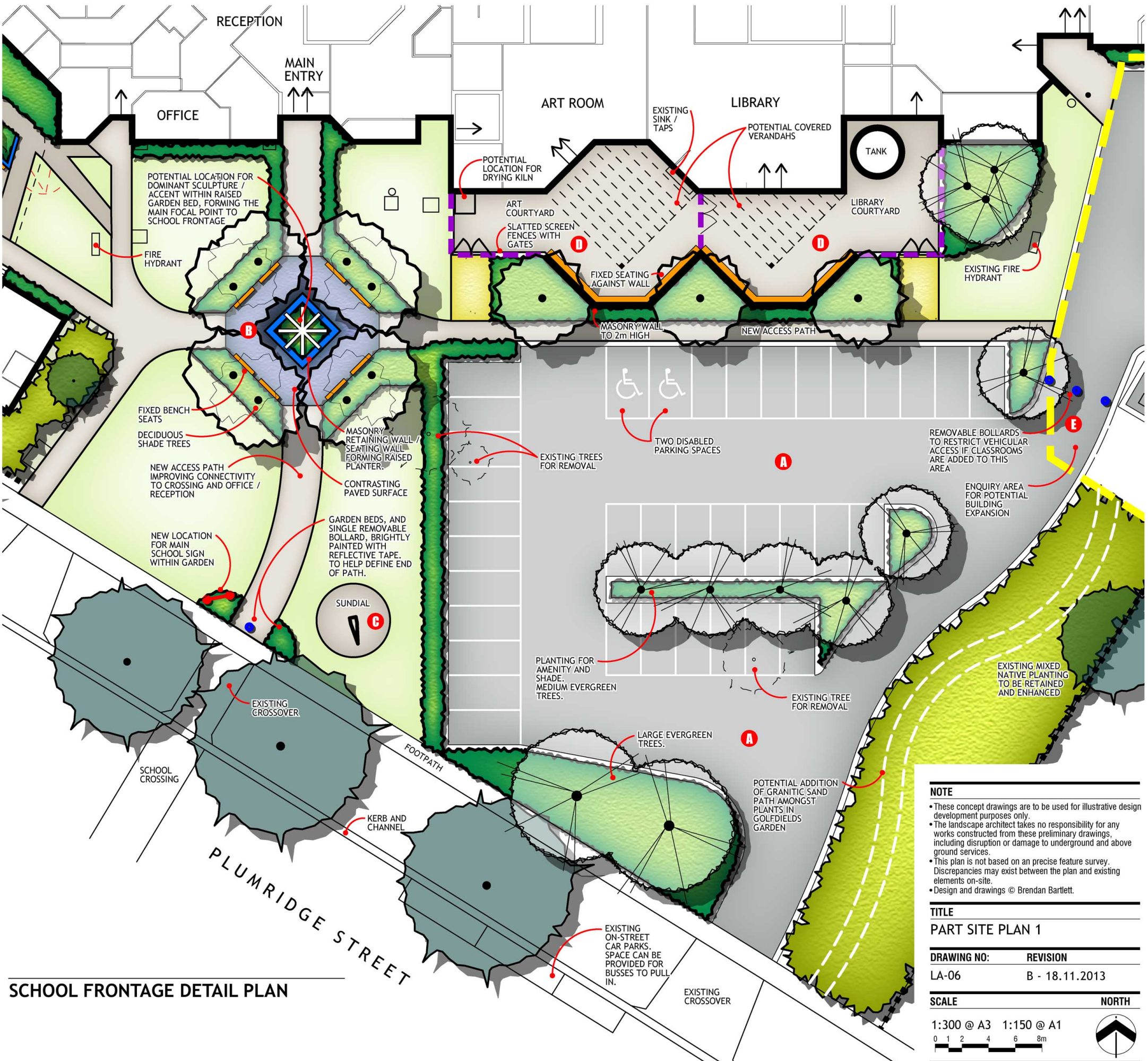
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LA-05

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CENTRAL PASSIVE AREA DETAIL PLAN



SCHOOL FRONTAGE DETAIL PLAN

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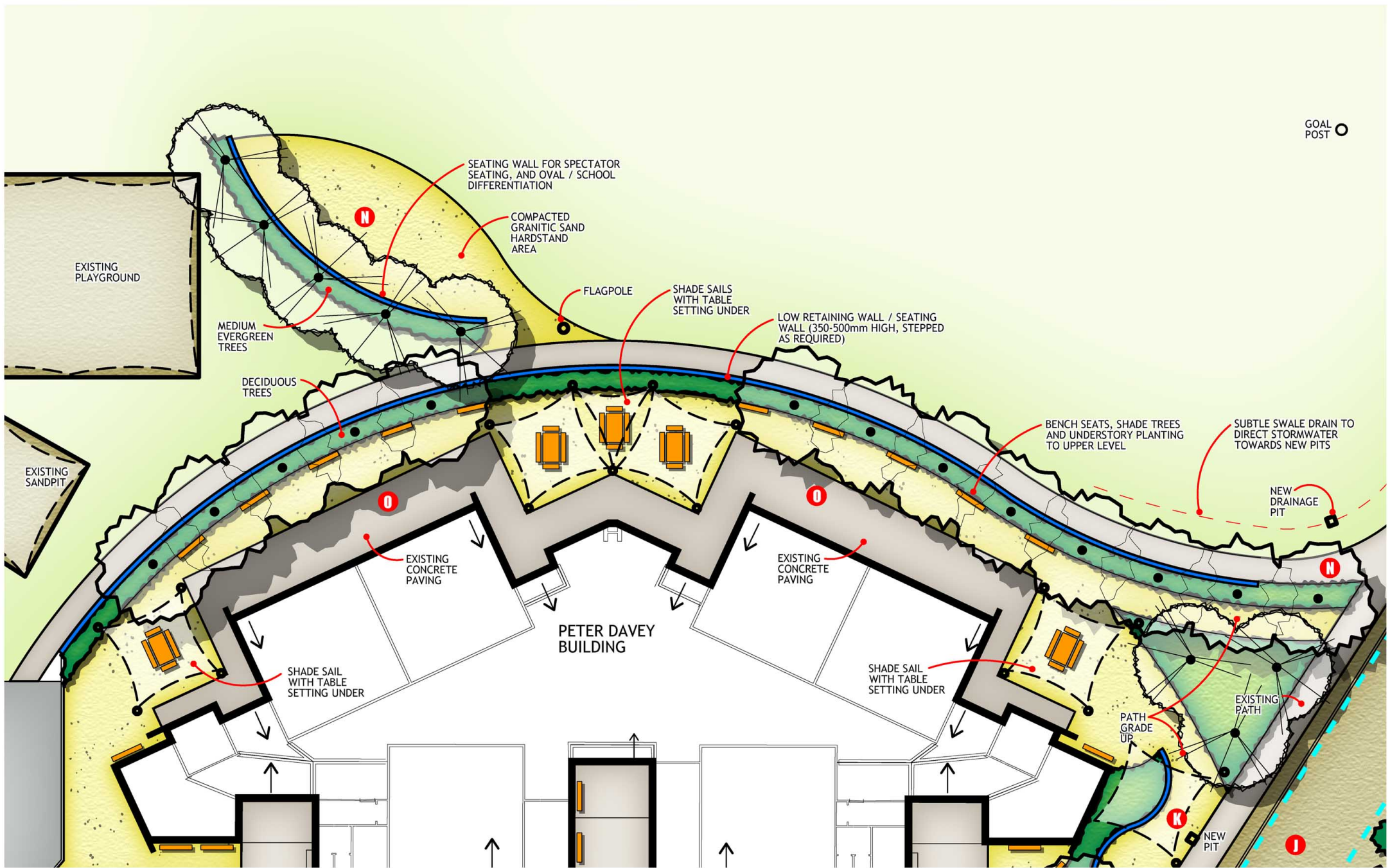
TITLE
PART SITE PLAN 1

DRAWING NO: LA-06 **REVISION:** B - 18.11.2013

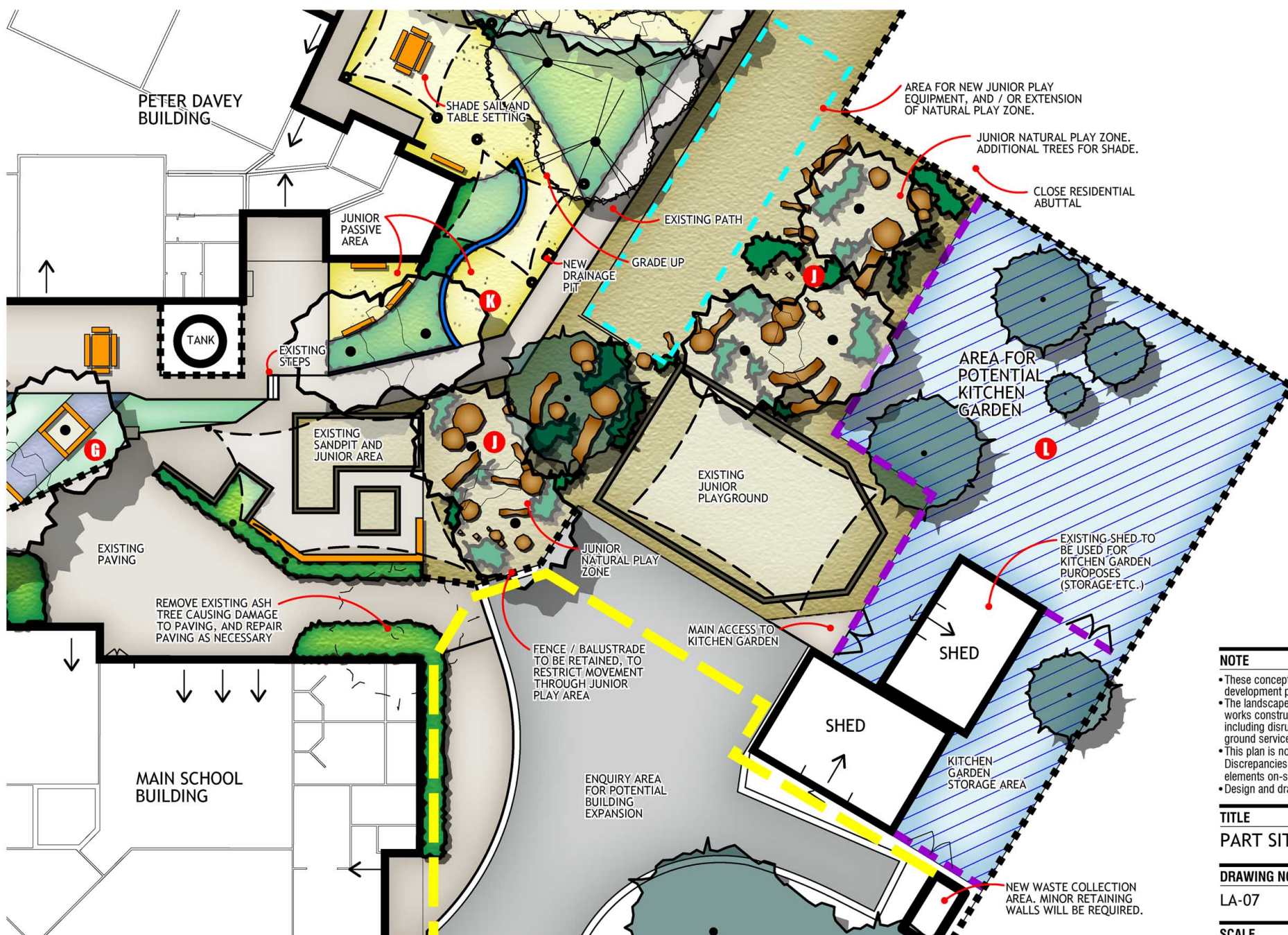
SCALE **NORTH**

1:300 @ A3 1:150 @ A1

0 1 2 4 6 8m



NORTH SIDE OF PETER DAVEY BUILDING DETAIL PLAN



JUNIOR AREA AND KITCHEN GARDEN DETAIL PLAN

NOTE

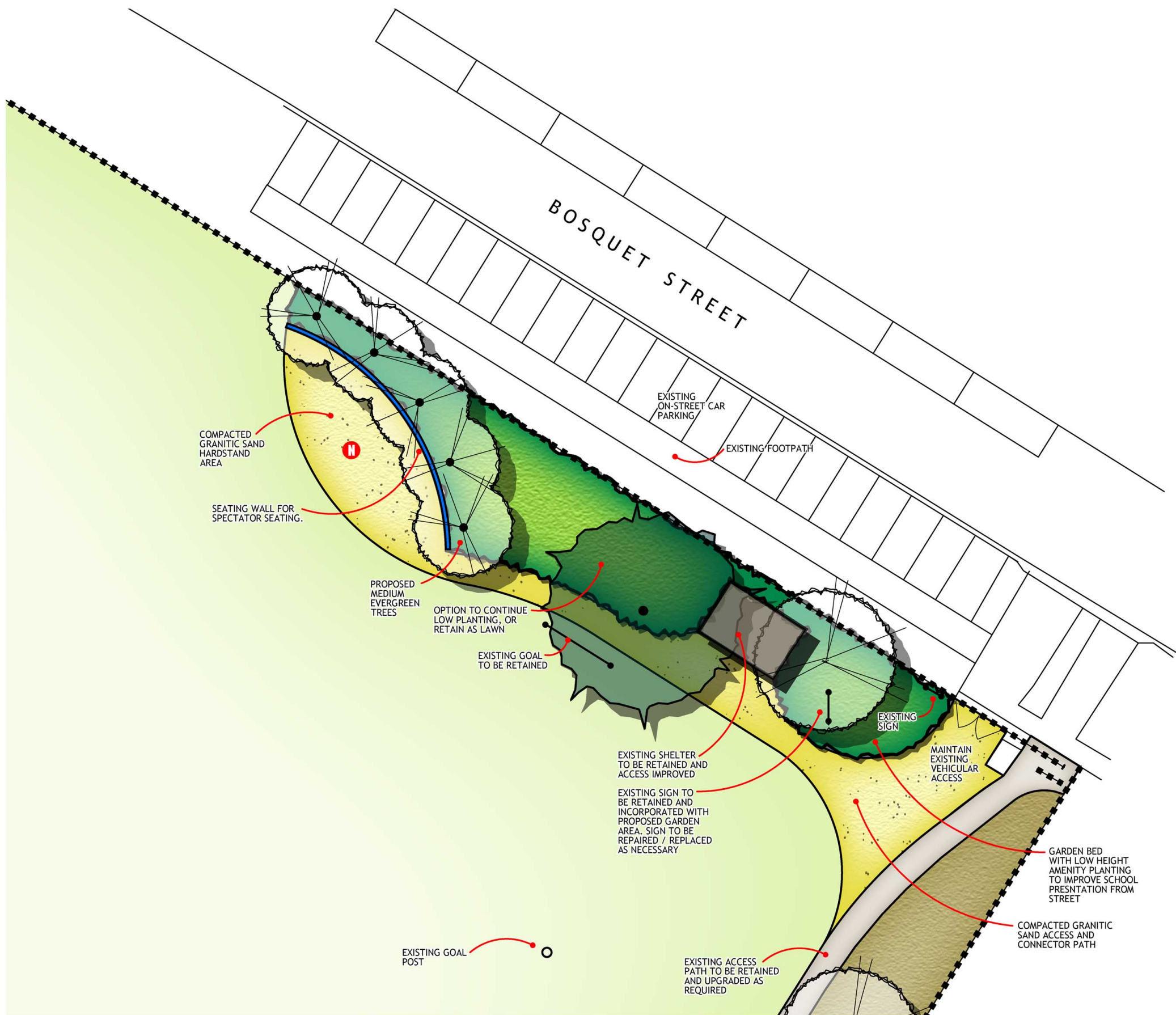
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TITLE
PART SITE PLAN 2

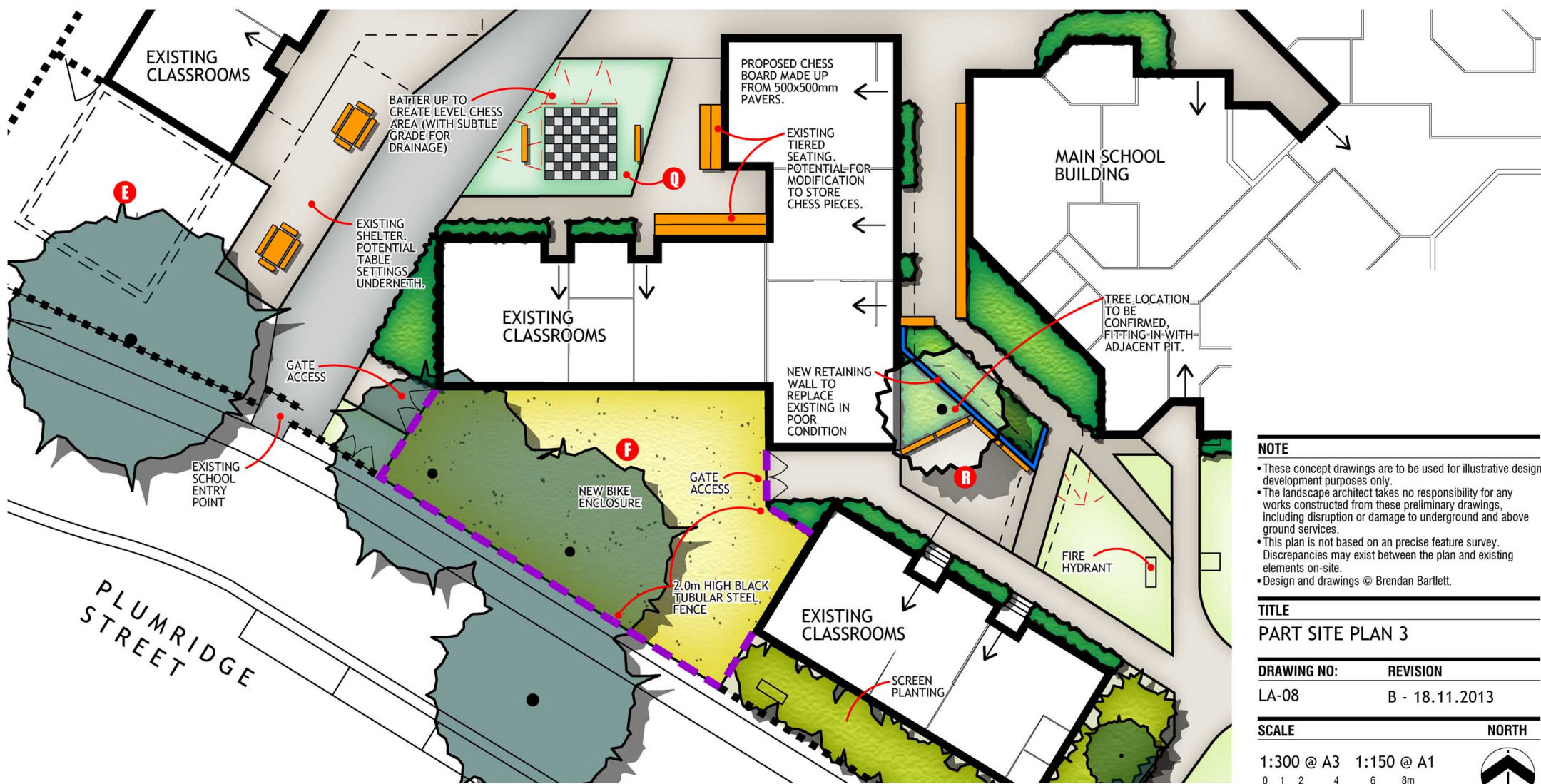
DRAWING NO: LA-07
REVISION: B - 18.11.2013

SCALE 1:300 @ A3 1:150 @ A1





BOSQUET STREET FRONTAGE DETAIL PLAN



SOUTH-WEST CORNER DETAIL PLAN

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TITLE
PART SITE PLAN 3

DRAWING NO: LA-08
REVISION: B - 18.11.2013

SCALE 1:300 @ A3 1:150 @ A1



PLANT / MATERIALS PALETTE



Pyrus calleryana 'Chanticleer'



Pyrus calleryana 'Aristocrat'



Gleditsia triacanthos 'Sunburst'



Gleditsia triacanthos 'Shademaster'



Acer negundo 'Sensation'



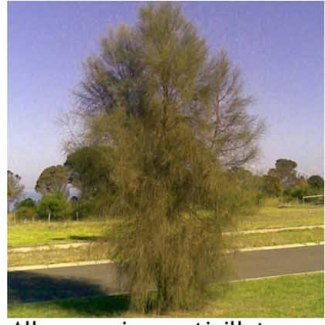
Fraxinus pennsylvanica 'Cimmzam' -Cimmaron Ash



Eucalyptus scoparia



Acacia implexa



Allocasuarina verticillata



Fraxinus griffithii



Corymbia maculata



Corymbia citriodora



Eucalyptus leucoxylo



Callistemon 'Kings Park Special'



Acacia pycnantha



Acacia acinacea



Acacia howittii



Allocasuarina muelleriana



Melaleuca decussata



Correa glabra



Correa 'dusky bells'



Westringia fruticosa



Callistemon 'Little John'



Convolvulus cneorum



Lomandra longifolia



Lomandra longifolia 'Tanika'



Diets iridioides



Poa labillardieri



Myoporum parvifolium



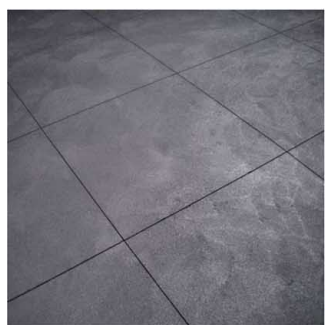
Enchylaena tomentosa



Eremophila 'Kalbarri Carpet'



Artificial Turf



Coloured Concrete - Grid Sawcut Control Joints



Granitic sand



Tubular Steel Fence



Black Chainmesh Fence



Timber slat screen fence



Felton Industries Aluminium Bench Seat



Felton Industries Jumbo Park Setting



Felton Industries Compact Park Setting



Coloured Concrete Sleeper Retaining Wall



Allan block retaining wall

TITLE	
PLANT / MATERIALS PALETTE	
DRAWING NO:	REVISION
LA-09	B - 18.11.2013