MACARTHUR ANGLICAN SCHOOL

605 Cobbitty Rd, Cobbitty NSW 2570

PROPOSED CAMPUS PLAN

0m 30 60 90

LEGEND:

- PROPOSED NEW BUILDING
- REFURBISHED BUILDING
- PROPOSED CONSTRUCTION ACCESS ROAD
- EXISTING DRIVEWAY / ROAD / PARKING
- PEDESTRIAN PATH
- BUILDINGS TO REMAIN
- TREES

SCALE: 1 : 1500 @ A1

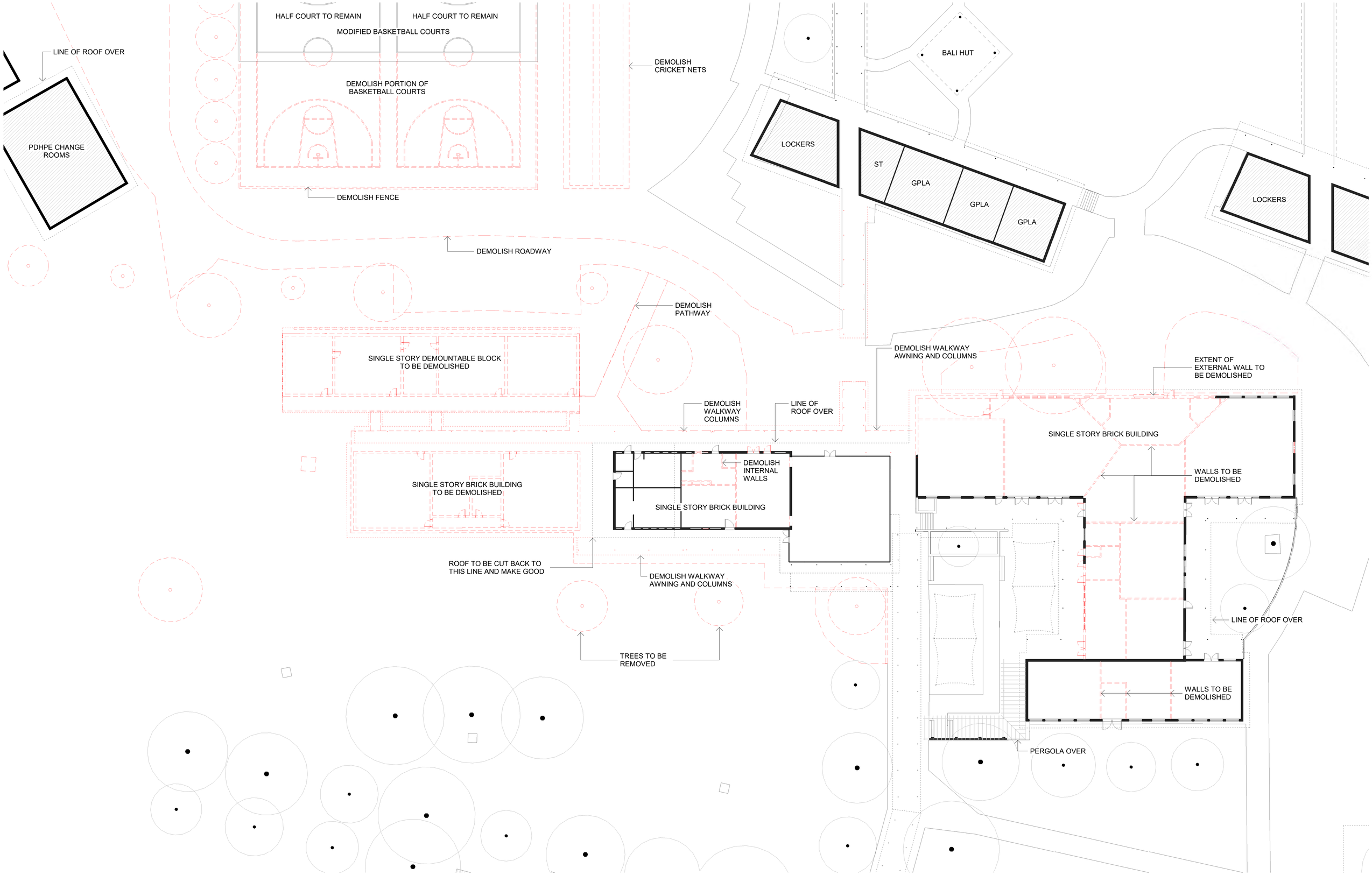
JOB NO: 1714

DRAWING No. DA_003

REV i

ISSUE	AMENDMENT DESCRIPTION	DATE
i	ISSUE FOR DEVELOPMENT APPLICATION AMENDMENT	13/12/19
H	ISSUE FOR DEVELOPMENT APPLICATION	13/09/19
G	ISSUE FOR DRAFT D.A.	06/09/19
F	FOR COORDINATION	21/08/19
E	FOR COORDINATION	16/08/19
D	FOR COORDINATION	14/08/19

MAYOH



MACARTHUR ANGLICAN SCHOOL

605 Cobbitty Rd, Cobbitty NSW 2570

DEMOLITION PLAN

0 m 4 8 12

LEGEND:

- EXISTING WALL TO REMAIN
- TO BE DEMOLISHED
- ROOF / AWNING OVER
- PATHWAY TO REMAIN
- EXISTING BUILDINGS TO REMAIN
- EXISTING TREES
- TREES TO BE REMOVED

SCALE: 1 : 200 @ A1

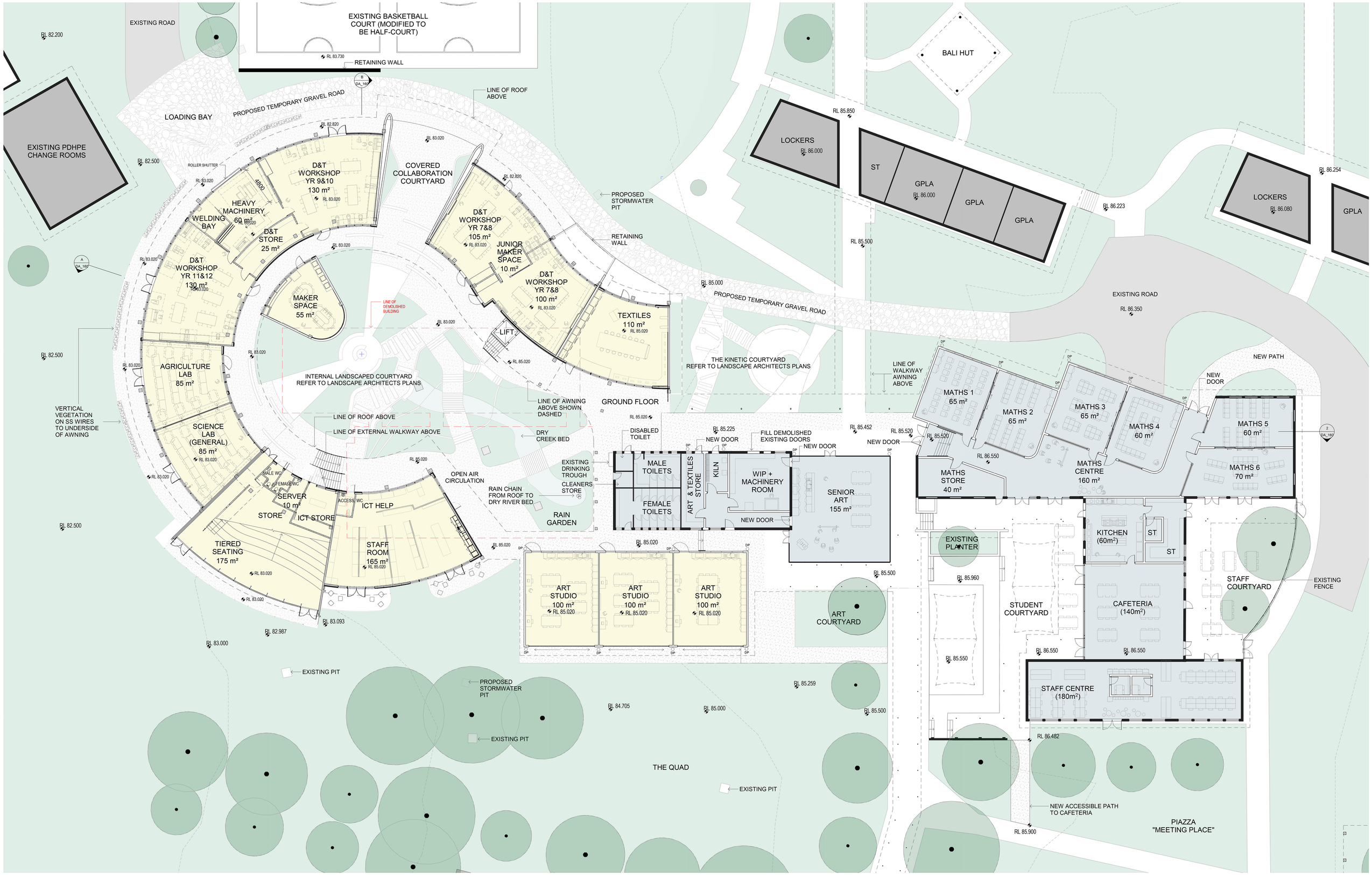
JOB NO: 1714

DRAWING No. DA_007

REV E

ISSUE	AMENDMENT DESCRIPTION	DATE
E	ISSUE FOR DEVELOPMENT APPLICATION	13/09/19
D	ISSUE FOR DRAFT D.A.	06/09/19
C	FOR REVIEW	13/08/19
B	FOR COORDINATION	02/08/19
A	FOR COORDINATION	25/07/19

MAYOH



MACARTHUR ANGLICAN SCHOOL

605 Cobbitty Rd, Cobbitty NSW 2570

GROUND FLOOR PLAN

0 m 4 8 12

LEGEND:

- ALTERATIONS AND ADDITIONS TO EXISTING BUILDING
- NEW CONSTRUCTION
- EXISTING BUILDING
- PROPOSED ROOF
- EXISTING ROAD
- PROPOSED TEMPORARY GRAVEL ROAD
- EXISTING PAVING
- PROPOSED PAVING
- LANDSCAPED AREA
- TREES

SCALE: 1 : 200 @ A1

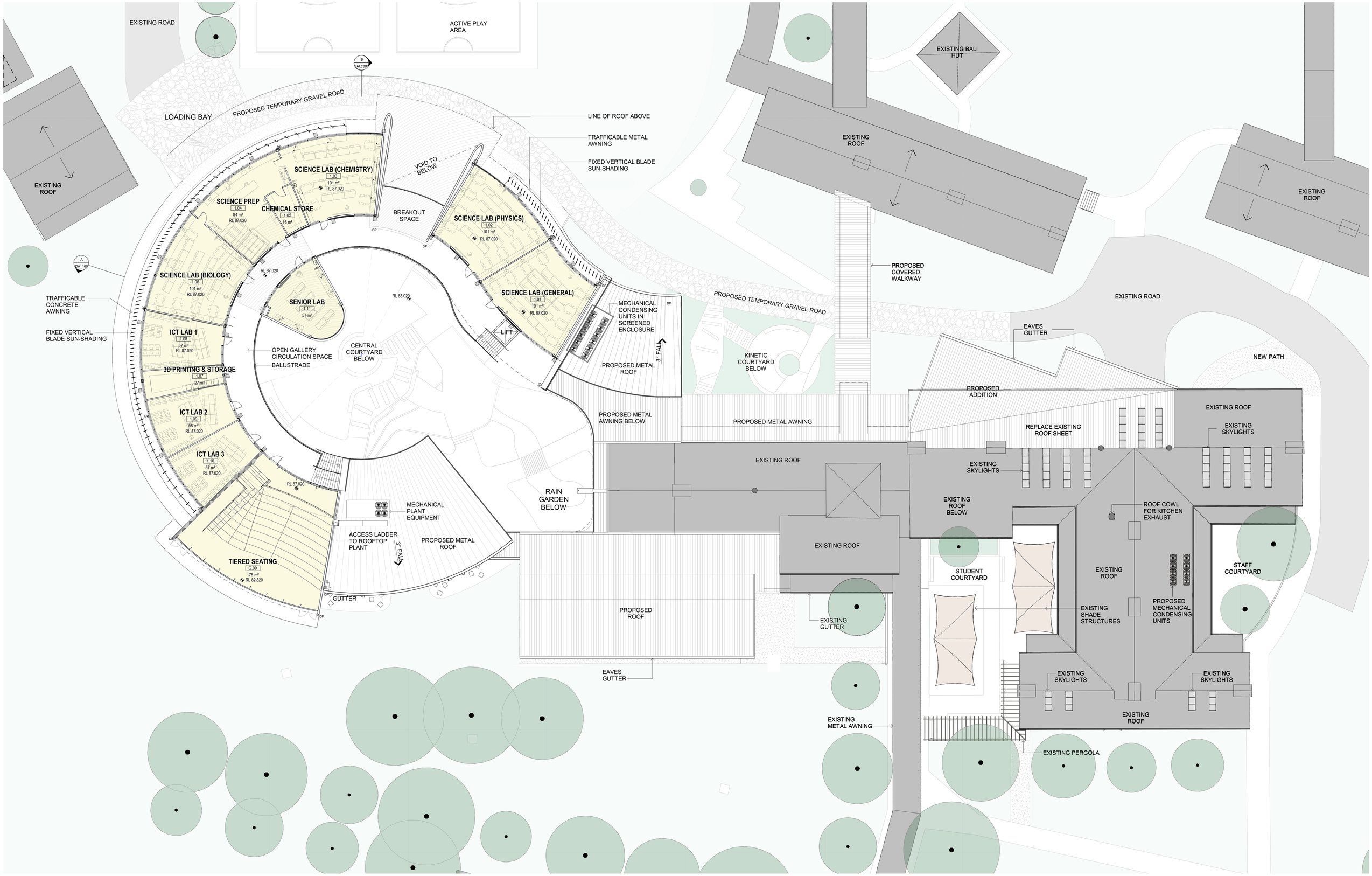
JOB NO: 1714

DRAWING No. DA_100

REV H

ISSUE	AMENDMENT DESCRIPTION	DATE
H	ISSUE FOR DEVELOPMENT APPLICATION AMENDMENT	13/12/19
G	ISSUE FOR DEVELOPMENT APPLICATION	13/09/19
F	ISSUE FOR DRAFT D.A.	06/09/19
E	FOR COORDINATION	03/09/19
D	FOR COORDINATION	16/08/19
C	FOR REVIEW	13/08/19

MAYOH



MACARTHUR ANGLICAN SCHOOL

605 Cobbitty Rd, Cobbitty NSW 2570

FIRST FLOOR PLAN

0 m 4 8 12

LEGEND:

- ALTERATIONS AND ADDITIONS TO EXISTING BUILDING
- NEW CONSTRUCTION
- EXISTING BUILDING
- PROPOSED ROOF
- EXISTING ROAD
- PROPOSED TEMPORARY GRAVEL ROAD
- EXISTING PAVING
- PROPOSED PAVING
- LANDSCAPED AREA
- TREES

SCALE: 1 : 200 @ A1

JOB NO: 1714

DRAWING No. DA_101

REV G

ISSUE	AMENDMENT DESCRIPTION	DATE
G	ISSUE FOR DEVELOPMENT APPLICATION AMENDMENT	13/12/19
F	ISSUE FOR DEVELOPMENT APPLICATION	13/09/19
E	ISSUE FOR DRAFT D.A.	06/09/19
D	FOR COORDINATION	16/08/19
C	FOR REVIEW	13/08/19
B	FOR COORDINATION	08/08/19

MAYOH

MACARTHUR ANGLICAN SCHOOL

605 Cobbitty Rd, Cobbitty NSW 2570

ROOF PLAN

0 m 4 8 12

LEGEND:

- ALTERATIONS AND ADDITIONS TO EXISTING BUILDING
- NEW CONSTRUCTION
- EXISTING BUILDING
- PROPOSED ROOF
- EXISTING ROAD
- PROPOSED TEMPORARY GRAVEL ROAD
- EXISTING PAVING
- PROPOSED PAVING
- LANDSCAPED AREA
- TREES

SCALE: 1 : 200 @ A1

JOB NO: 1714

DRAWING No. DA_102

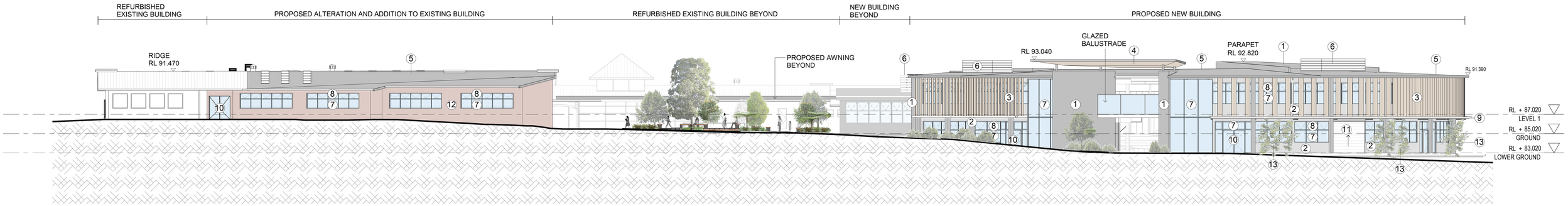
REV H

ISSUE	AMENDMENT DESCRIPTION	DATE
H	ISSUE FOR DEVELOPMENT APPLICATION AMENDMENT	13/12/19
G	ISSUE FOR DEVELOPMENT APPLICATION	13/09/19
F	ISSUE FOR DRAFT D.A.	06/09/19
E	FOR COORDINATION	03/09/19
D	FOR COORDINATION	16/08/19
C	FOR REVIEW	13/08/19

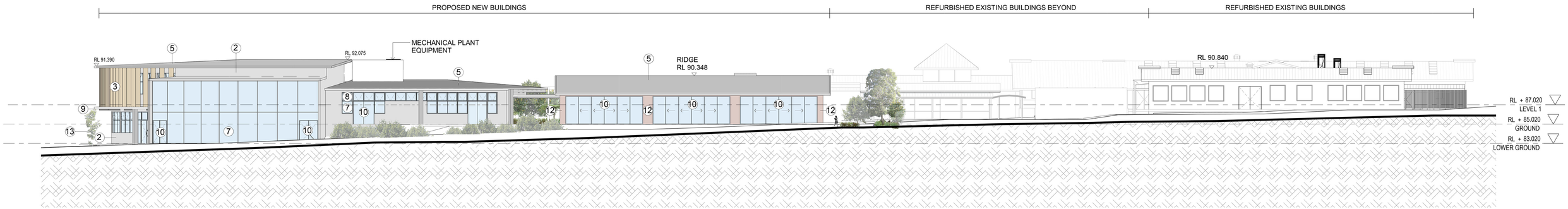
MAYOH

EXTERNAL FINISHES

1 FIBRE CEMENT WALL CLADDING - TYPE 1
2 FIBRE CEMENT WALL CLADDING - TYPE 2
3 ALUMINIUM 'TIMBER-LOOK' SUN SHADING LOUVRES
4 'TIMBER-LOOK' SOFFIT
5 METAL ROOF
6 ALUMINIUM SCREEN TO A/C PLANT AREA
7 ALUMINIUM FRAMED FIXED WINDOWS
8 ALUMINIUM FRAMED AWNING WINDOWS
9 METAL AWNING
10 ALUMINIUM FRAMED GLAZED DOORS
11 METAL ROLLER DOOR
12 NEW BRICKWORK
13 CLIMBING PLANTS ON SS WIRE



1 ELEVATION NORTH
1 : 200



2 ELEVATION SOUTH
1 : 200

MACARTHUR ANGLICAN SCHOOL
605 Cobbitty Rd, Cobbitty NSW 2570

ELEVATIONS NORTH & SOUTH

0 m 4 8 12

SCALE: 1 : 200 @ A1
JOB NO: 1714

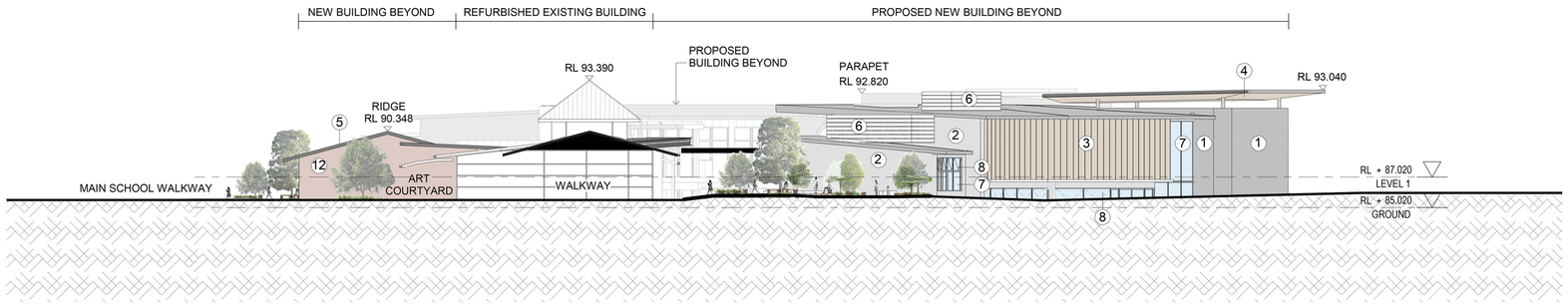
DRAWING No. DA_150
REV E

ISSUE	AMENDMENT DESCRIPTION	DATE
E	ISSUE FOR DEVELOPMENT APPLICATION AMENDMENT	13/12/19
D	ISSUE FOR DEVELOPMENT APPLICATION	13/09/19
C	ISSUE FOR DRAFT D.A.	06/09/19
B	FOR COORDINATION	16/08/19
A	FOR COORDINATION	06/08/19

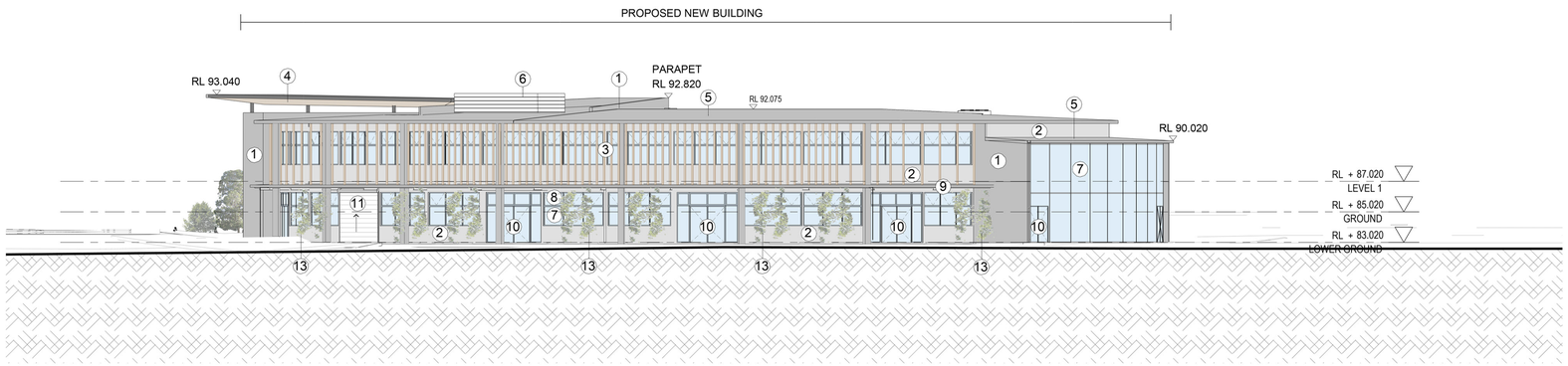
MAYOH

EXTERNAL FINISHES

1 FIBRE CEMENT WALL CLADDING - TYPE 1
2 FIBRE CEMENT WALL CLADDING - TYPE 2
3 ALUMINIUM 'TIMBER-LOOK' SUN SHADING LOUVRES
4 'TIMBER-LOOK' SOFFIT
5 METAL ROOF
6 ALUMINIUM SCREEN TO A/C PLANT AREA
7 ALUMINIUM FRAMED FIXED WINDOWS
8 ALUMINIUM FRAMED AWNING WINDOWS
9 METAL AWNING
10 ALUMINIUM FRAMED GLAZED DOORS
11 METAL ROLLER DOOR
12 NEW BRICKWORK
13 CLIMBING PLANTS ON SS WIRE



1 ELEVATION EAST
1 : 200



2 ELEVATION WEST
1 : 200

MACARTHUR ANGLICAN SCHOOL
605 Cobbitty Rd, Cobbitty NSW 2570

ELEVATIONS EAST & WEST

0 m 2 4 6

SCALE: 1 : 200 @ A1 JOB NO: 1714

DRAWING No. DA_151

REV E

ISSUE	AMENDMENT DESCRIPTION	DATE
E	ISSUE FOR DEVELOPMENT APPLICATION AMENDMENT	13/12/19
D	ISSUE FOR DEVELOPMENT APPLICATION	13/09/19
C	ISSUE FOR DRAFT D.A.	06/09/19
B	FOR COORDINATION	16/08/19
A	FOR COORDINATION	06/08/19

MAYOH

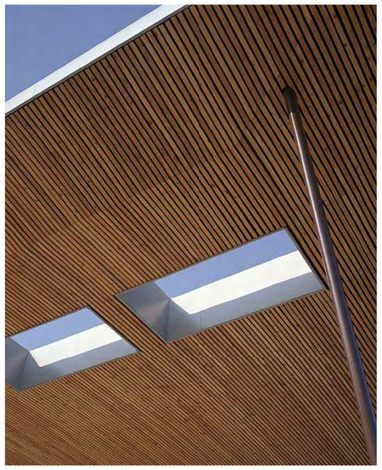
VIEW OF PROPOSED BUILDING FROM THE NORTH

VIEW OF PROPOSED BUILDING FROM THE SPORTING FIELDS TO THE WEST

1. LIGHT GREY FC WALL CLADDING

2. GREY TONED FC WALL CLADDING

3. VERTICAL TIMBER LOOK SUN SHADING



4. TIMBER-LOOK SOFFIT LINING

5. GREY METAL ROOF

7/8/9. CHARCOAL ALUMINIUM FRAMED WINDOWS AND DOORS

EXTERNAL FINISHES

1 FIBRE CEMENT WALL CLADDING - TYPE 1
2 FIBRE CEMENT WALL CLADDING - TYPE 2
3 ALUMINIUM 'TIMBER-LOOK' SUN SHADING LOUVRES
4 'TIMBER-LOOK' SOFFIT
5 METAL ROOF
6 ALUMINIUM SCREEN TO A/C PLANT AREA
7 ALUMINIUM FRAMED FIXED WINDOWS
8 ALUMINIUM FRAMED AWNING WINDOWS
9 METAL AWNING
10 ALUMINIUM FRAMED GLAZED DOORS
11 METAL ROLLER DOOR
12 NEW BRICKWORK
13 CLIMBING PLANTS ON SS WIRE

MACARTHUR ANGLICAN SCHOOL
605 Cobbitty Rd, Cobbitty NSW 2570

EXTERNAL FINISHES SCHEDULE

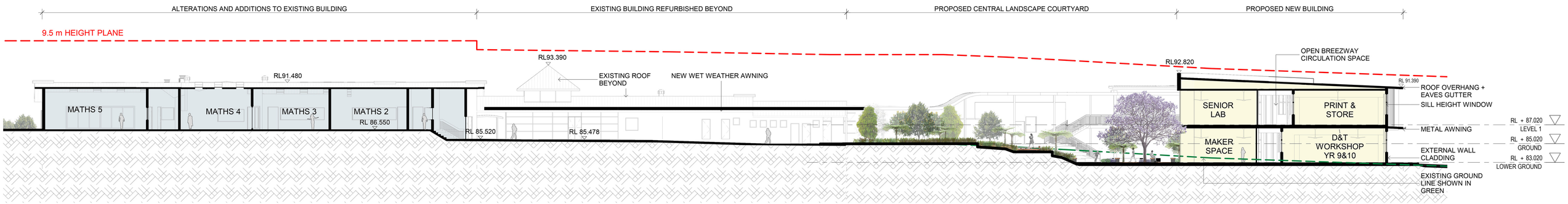
0 m 2 4 6

SCALE: 1 : 200 @ A1
JOB NO: 1714

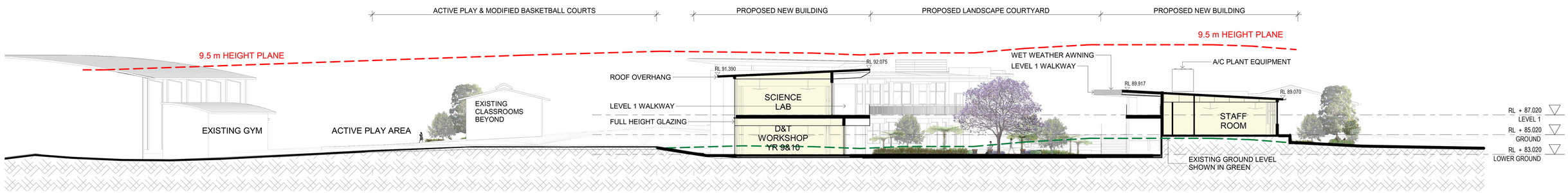
DRAWING No. DA_152
REV C

ISSUE	AMENDMENT DESCRIPTION	DATE
C	ISSUE FOR DEVELOPMENT APPLICATION	13/09/19
B	ISSUE FOR DRAFT D.A.	06/09/19
A	ISSUE TO COUNCIL FOR DA	27/08/19

MAYOH



A DA_100 SECTION A-A
1 : 200



B DA_100 SECTION B-B
1 : 200

MACARTHUR ANGLICAN SCHOOL
605 Cobbitty Rd, Cobbitty NSW 2570

SECTION A-A & B-B

0 m 2 4 6

LEGEND:

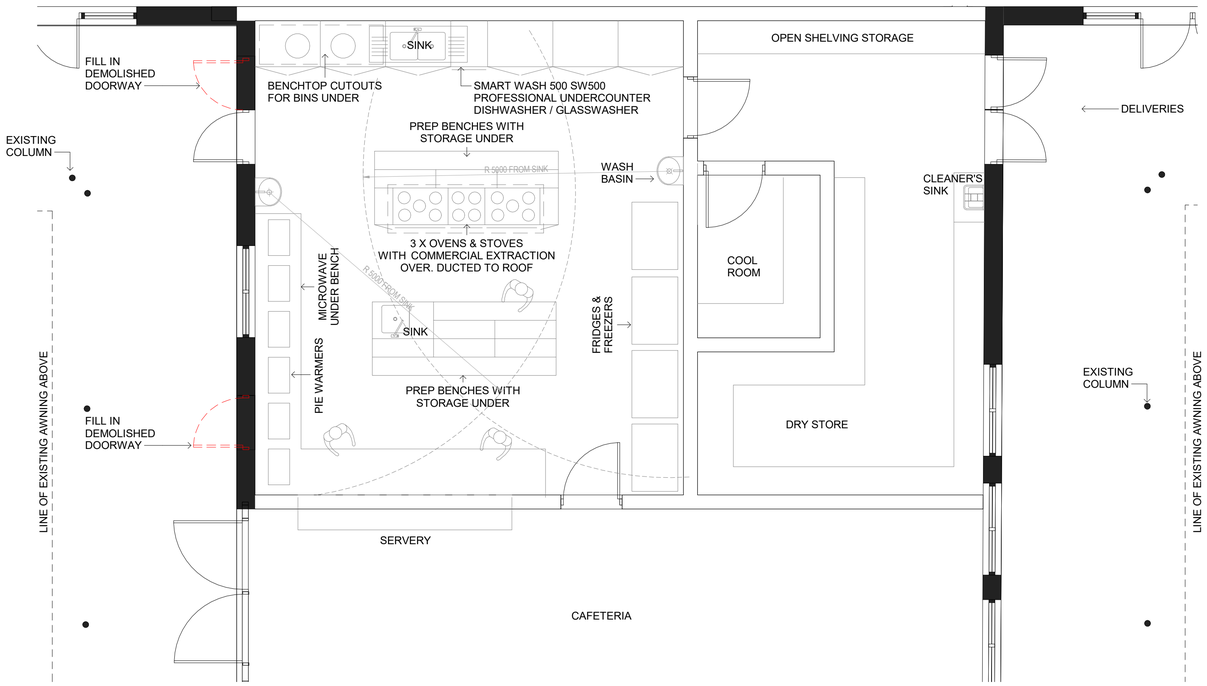
- ALTERATIONS AND ADDITIONS TO EXISTING BUILDING
- NEW CONSTRUCTION
- 9.5m HEIGHT PLANE
- EXISTING GROUND PLANE

SCALE: 1 : 200 @ A1
JOB NO: 1714

DRAWING No. DA_160
REV F

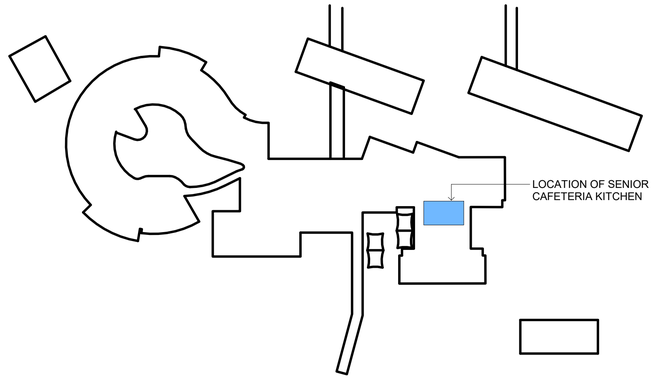
ISSUE	AMENDMENT DESCRIPTION	DATE
F	ISSUE FOR DEVELOPMENT APPLICATION AMENDMENT	13/12/19
E	ISSUE FOR DEVELOPMENT APPLICATION	13/09/19
D	ISSUE FOR DRAFT D.A.	06/09/19
C	FOR COORDINATION	16/08/19
B	FOR REVIEW	13/08/19
A	FOR COORDINATION	12/07/19

MAYOH



1 SENIOR CAFETERIA KITCHEN LAYOUT

1 : 50



2 LOCATION KEP PLAN

1:1000

MACARTHUR ANGLICAN SCHOOL

605 Cobbitty Rd, Cobbitty NSW 2570

SENIOR CAFETERIA KITCHEN LAYOUT

0 m 1 2 3

SCALE: 1 : 50 @ A1

JOB NO:1714

DRAWING No. DA_180

REV C

ISSUE	AMENDMENT DESCRIPTION	DATE
C	ISSUE FOR DEVELOPMENT APPLICATION AMENDMENT	13/12/19
B	ISSUE FOR DEVELOPMENT APPLICATION	13/09/19
A	ISSUE FOR DRAFT D.A.	06/09/19

MAYOH

MACARTHUR ANGLICAN SCHOOL COBBITTY

GENERAL NOTES

1. Contractor must verify all dimensions and existing levels on site prior to commencement of works. Any discrepancies to be reported to the Engineer
2. Strip all topsoil from the construction area. All stripped topsoil shall be disposed of off-site unless directed otherwise.
3. Make smooth connection with all existing works.
4. Compact subgrade under buildings and pavements to minimum 98% standard maximum dry density in accordance with AS 1289 5.1.1. Compaction under buildings to extend 2m minimum beyond building footprint.
5. All work on public property, property which is to become public property, or any work which is to come under the control of the Statutory Authority, the Contractor is to ensure that the drawings used for construction have been approved by all relevant authorities prior to commencement site.
6. All work on public property, property which is to become public property, or any work which is to come under the control of the Statutory Authority is to be carried out in accordance with the requirements of the relevant Authority. The Contractor shall obtain these requirements from the Authority. Where the requirements of the Authority are different to the drawings and specifications, the requirements of the Authority shall be applicable.
7. For all temporary batters refer to geotechnical recommendations.

REFERENCE DRAWINGS

1. These drawings have been based from, and to be read in conjunction with the following Consultants drawings. Any conflict to the drawings must be notified immediately to the Engineer.

Consultant	Dwg Title	Dwg No	Rev	Date
RYGATESURVEYORSSURVEY PLAN		78973	1	04.06.19
MAYOH ARCHITECT GROUND FLOOR PLAN		A_100	I	31.10.19

SURVEY AND SERVICES INFORMATION

SURVEY

Origin of levels : SSM.49.317 RL23.435
Datum of levels : A.H.D. AUSTRALIAN HEIGHT DATUM
Coordinate system : MGA
Survey prepared by : C.M.S.
Setout Points : CONTACT THE SURVEYOR

Taylor Thomson Whitting does not guarantee that the survey information shown on these drawings is accurate and will accept no liability for any inaccuracies in the survey information provided to us from any cause whatsoever.

UNDERGROUND SERVICES - WARNING

The locations of underground services shown on Taylor Thomson Whittings drawings have been plotted from diagrams provided by service authorities. This information has been prepared solely for the authorities own use and may not necessarily be updated or accurate.

The position of services as recorded by the authority at the time of installation may not reflect changes in the physical environment subsequent to installation.

Taylor Thomson Whitting does not guarantee that the services information shown on these drawings shows more than the presence or absence of services, and will accept no liability for inaccuracies in the services information shown from any cause whatsoever.

The Contractor must confirm the exact location and extent of services prior to construction and notify any conflict with the drawings immediately to the Engineer/Superintendent.

The contractor is to get approval from the relevant state survey department, to remove/adjust any survey mark. This includes but is not limited to; State Survey Marks (SSM), Permanent Marks (PM), cadastral reference marks or any other survey mark which is to be removed or adjusted in any way.
Taylor Thomson Whitting plans do not indicate the presence of any survey mark. The contractor is to undertake their own search.

SITEWORKS NOTES

1. All basecourse material to comply with RMS specification No 3051 and compacted to minimum 98% modified standard dry density in accordance with AS 1289 5.2.1.
2. All trench backfill material shall be compacted to the same density as the adjacent material.
3. All service trenches under vehicular pavements shall be backfilled with an approved select material and compacted to a minimum 98% standard maximum dry density in accordance with AS 1289 5.1.1

KERBING NOTES

Includes all kerbs, gutters, dish drains, crossings and edges.

1. All kerbs, gutters, dish drains and crossings to be constructed on minimum 75mm granular basecourse compacted to minimum 98% modified maximum dry density in accordance with AS 1289 5.2.1.
2. Expansion joints (EJ) to be formed from 10mm compressible cork filler board for the full depth of the section and cut to profile. Expansion joints to be located at drainage pits, on tangent points of curves and elsewhere at 12m centres except for integral kerbs where the expansion joints are to match the joint locations in slabs.
3. Weakened plane joints to be min 3mm wide and located at 3m centres except for integral kerbs where weakened plane joints are to match the joint locations in slabs.
4. Broomed finished to all ramped and vehicular crossings, all other kerbing or dish drains to be steel float finished.
5. In the replacement of kerbs –
   Existing road pavement is to be sawcut 900mm from lip of gutter. Upon completion of new kerbs, new basecourse and surface is to be laid 900mm wide to match existing materials and thicknesses.
   Existing allotment drainage pipes are to be built into the new kerb with a 100mm dia hole.
   Existing kerbs are to be completely removed where new kerbs are shown.

STORMWATER DRAINAGE NOTES

1 Stormwater Design Criteria :
(A) Average exceedance probability –
1% AEP for roof drainage to first external pit
5% AEP for paved and landscaped areas
(B) Rainfall intensities –
Time of concentration: 5 minutes
1% AEP = 208 mm/hr
5% AEP = 154 mm/hr
(C) Rainfall losses –
Impervious areas: IL = 1.5 mm , CL = 0 mm/hr
Pervious areas: IL =26.0 mm , CL = 4.7 mm/hr

2. Pipes 300 dia and larger to be reinforced concrete Class "2" approved spigot and socket with rubber ring joints U.N.O.
3. Pipes up to 300 dia may be sewer grade uPVC with solvent welded joints, subject to approval by the engineer
4. Equivalent strength VCP or FRP pipes may be used subject to approval.
5. Precast pits may be used external to the building subject to approval by ENGINEER
6. Enlargers, connections and junctions to be manufactured fittings where pipes are less than 300 dia.
7. Where subsoil drains pass under floor slabs and vehicular pavements, unslotted uPVC sewer grade pipe is to be used.
8. Grates and covers shall conform with AS 3996-2006, and AS 1428.1 for access requirements.
9. Pipes are to be installed in accordance with AS 3725. All bedding to be type H2 U.N.O.
10. Care is to be taken with invert levels of stormwater lines. Grades shown are not to be reduced without approval.
11. All stormwater pipes to be 150 dia at 1.0% min fall U.N.O.
12. Subsoil drains to be slotted flexible uPVC U.N.O.
13. Adopt invert levels for pipe installation (grades shown are only nominal).

PIT SCHEDULE

Note: Grate size does not necessarily reflect pit size, refer pit type details, shown on detail sheets – **C140**
Final internal pit dimensions are to comply with AS3500

Type	Description	Cover (Clear Opening)	Number
A	Surface inlet pit	600 x 900 Class C galvanised mild steel grate hinged to frame	5-11
		900 x 900 Class C galvanised mild steel grate hinged to frame	2,3,4,13, 14
C		Existing pit to remain	1,12,15

CONCRETE FINISHING NOTES

1. All exposed concrete pavements are to be broomed finished.
2. All edges of the concrete pavement including keyed and dowelled joints are to be finished with an edging tool.
3. Concrete pavements with grades greater than 10 % shall be heavily broomed finished.
4. Carborundum to be added to all stair treads and ramped crossings U.N.O.

EROSION AND SEDIMENT CONTROL NOTES

1. All work shall be generally carried out in accordance with
   (A) Local authority requirements,
   (B) EPA – Pollution control manual for urban stormwater,
   (C) LANDCOM NSW – Managing Urban Stormwater: Soils and Construction ("Blue Book").
2. Erosion and sediment control **drawings and notes are** provided for the whole of the works. Should the Contractor stage these works then the design may be required to be modified. Variation to these details may require approval by the relevant authorities.
   The erosion and sediment control **plan** shall be implemented and adapted to meet the varying situations as work on site progresses.
3. Maintain all erosion and sediment control devices to the satisfaction of the superintendent and the local authority.
4. When stormwater pits are constructed prevent site runoff entering the pits unless silt fences are erected around pits.
5. Minimise the area of site being disturbed at any one time.
6. Protect all stockpiles of materials from scour and erosion. Do not stockpile loose material in roadways, near drainage pits or in watercourses.
7. All soil and water control measures are to be put back in place at the end of each working day, and modified to best suit site conditions.
8. Control water from upstream of the site such that it does not enter the disturbed site.
9. All construction vehicles shall enter and exit the site via the temporary construction entry/exit.
10. All vehicles leaving the site shall be cleaned and inspected before leaving.
11. Maintain all stormwater pipes and pits clear of debris and sediment. Inspect stormwater system and clean out after each storm event.
12. Clean out all erosion and sediment control devices after each storm event.

Sequence Of Works

1. Prior to commencement of excavation the following soil management devices must be installed.

1.1. Construct silt fences below the site and across all potential runoff sites.
1.2. Construct temporary construction entry/exit and divert runoff to suitable control systems.
1.3. Construct measures to divert upstream flows into existing stormwater system.
1.4. Construct sedimentation traps/basin including outlet control and overflow.
1.5. Construct turf lined swales.
1.6. Provide sandbag sediment traps upstream of existing pits.

2. Construct geotextile filter pit surround around all proposed pits as they are constructed.
3. On completion of pavement provide sand bag kerb inlet sediment traps around pits.
4. Provide and maintain a strip of turf on both sides of all roads after the construction of kerbs.

WATER QUALITY TESTING REQUIREMENTS

Prior to discharge of site stormwater, groundwater and seepage water into council's stormwater system, contractors must undertake water quality tests in conjunction with a suitably qualified environment consultant outlining the following:

- Compliance with the criteria of the Australian and New Zealand Guidelines for Fresh and Marine Water Quality (2000)
- If required subject to the environmental consultants advice, provide remedial measures to improve the quality of water that is to be discharged into Councils storm water drainage system.This should include comments from a suitably qualified environmental consultant confirming the suitability of these remedial measures to manage the water discharged from the site into Councils storm water drainage system. Outlining the proposed, ongoing monitoring, contingency plans and validation program that will be in place to continually monitor the quality of water discharged from this site. This should outline the frequency of water quality testing that will be undertaken by a suitably qualified environmental consultant.

BOUNDARY AND EASEMENT NOTE

The property boundary and easement locations shown on Taylor Thomson Whitting drawing's have been based from information received from : **C.M.S**

Taylor Thomson Whitting makes no guarantees that the boundary or easement information shown is correct.
Taylor Thomson Whitting will accept no liabilities for boundary inaccuracies. The contractor/builder is advised to check/confirm all boundaries in relation to all proposed work prior to the commencement of construction. Boundary inaccuracies found are to be reported to the superintendent prior to construction starting.

SAFETY IN DESIGN

Contractor to refer to Appendix B of the Civil Specification for the Civil Risk and Solutions Register.

EXISTING SERVICES

Contractor to be aware existing services are located within the site. Location of all services to be verified by the Contractor prior to commencing works. Contractor to confirm with relevant authority regarding measures to be taken to ensure services are protected or procedures are in place to demolish and/or relocate.

EXISTING STRUCTURES

Contractor to be aware existing structures may exist within the site. To prevent damage to existing structure(s) and/or personnel, site works to be carried out as far as practicably possible from existing structure(s).

EXISTING TREES

Contractor to be aware existing trees exist within the site which need to be protected. To prevent damage to trees and/or personnel, site works to be carried out as far as practicably possible from existing trees. Advice needs to be sought from Arborist and/or Landscape Architect on measures required to protect trees.

GROUNDWATER

Contractor to be aware ground water levels are close to existing surface level. Temporary de-watering may be required during construction works.

EXCAVATIONS

Deep excavations due to stormwater drainage works is required. Contractor to ensure safe working procedures are in place for works. All excavations to be fenced off and batters adequately supported to approval of Geotechnical Engineer.

GROUND CONDITIONS

Contractor to be aware of the site geotechnical conditions. Refer to geotechnical report by (Douglas Partners) for details.

HAZARDOUS MATERIALS

Existing asbestos products & contaminated material may be present on site. Contractor to ensure all hazardous materials are identified prior to commencing works. Safe working practices as per relevant authority to be adopted and appropriate PPE to be used when handling all hazardous materials. Refer to geotechnical/environmental report by (Douglas Partners) for details.

CONFINED SPACES

Contractor to be aware of potential hazards due to working in confined spaces such as stormwater pits, trenches and/or tanks. Contractor to provide safe working methods and use appropriate PPE when entering confined spaces.

MANUAL HANDLING

Contractor to be aware manual handling may be required during construction. Contractor to take appropriate measures to ensure manual handling procedures and assessments are in place prior to commencing works.

WATER POLLUTION

Contractor to ensure appropriate measures are taken to prevent pollutants from construction works contaminating the surrounding environment.

SITE ACCESS/EGRESS

Contractor to be aware site works occur in close proximity to footpaths and roadways. Contractor to erect appropriate barriers and signage to protect site personnel and public.

VEHICLE MOVEMENT

Contractor to supply and comply with traffic management plan and provide adequate site traffic control including a certified traffic marshall to supervise vehicle movements where necessary.

CONCRETE NOTES

EXPOSURE CLASSIFICATION : External : B2

CONCRETE

Place concrete of the following characteristic compressive strength f'c as defined in AS 1379.

Location	AS 1379 f'c MPa at 28 days	Specified Slump	Nominal Agg. Size
Kerbs	S20	80	20
Retaining wall footing	S40	80	20

1. Use Type 'GP' cement, unless otherwise specified.
2. All concrete shall be subject to project assessment and testing to AS 1379.
3. Consolidate by mechanical vibration. Cure all concrete surfaces as directed in the Specification.
4. For all falls in slab, drip grooves, reglets, chamfers etc. refer to Architects drawings and specifications.
5. Unless shown on the drawings, the location of all construction joints shall be submitted to Engineer for review.
6. No holes or chases shall be made in the slab without the approval of the Engineer.
7. Conduits and pipes are to be fixed to the underside of the top reinforcement layer.
8. Slurry used to lubricate concrete pump lines is not to be used in any structural members.
9. All slabs cast on ground require sand blinding with a Concrete Underlay

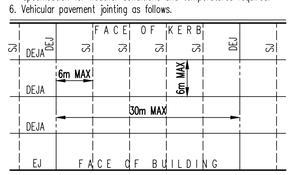
FORMWORK

1. The design, certification, construction and performance of the formwork, falsework and backpropping shall be the responsibility of the contractor. Proposed method of installation and removal of formwork is to be submitted to the superintendent for comment prior to work being carried out.

JOINTING NOTES

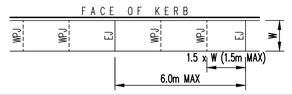
Vehicular Pavement Jointing

1. All vehicular pavements to be jointed as shown on drawings.
2. Keyed construction joints should generally be located at a maximum of 6m centres.
3. Sawn joints should generally be located at a maximum of 6m centres or 1.5 x the spacing of keyed joints, where key joint spacing is less than 4m, with dowelled expansion joints at maximum of 30m centres.
4. Provide 10mm wide full depth expansion joints between buildings and all concrete or unit pavers.
5. The timing of the saw cut is to be confirmed by the contractor on site. Site conditions will determine how many hours after the concrete pour before the saw cuts are commenced. Refer to the specification for weather conditions and temperatures required.
6. Vehicular pavement jointing as follows.



Pedestrian Footpath Jointing

1. Expansion joints are to be located where possible at tangent points of curves and elsewhere at max 6.0m centres.
2. Weakened plane joints are to be located at a max 1.5 x width of the pavement.
3. Where possible joints should be located to match kerbing and / or adjacent pavement joints.
4. All pedestrian footpath jointings as follows (uno).



SITEWORKS LEGEND

● F22.20	Finished surface level
F22.00	Finished contour
K&G	Kerb and gutter
KO	Kerb only
FK	Flush kerb
DD	Dish drain
IL10.00 / 600 ø 'Z' / 1.25% / Q=345 L/s / IL9.65	Stormwater pit, flow direction and line with Invert level upstream Pipe size and class Pipe grade Flow (Litres per second) Invert level downstream
GD	Grated drain
IR	Intermediate riser with subsoil drainage line (100 dia)
FP	Flushing point with subsoil drainage line (100 dia)
DP	Down pipe
RP	Rodding point
	Grass catch drain
	Overland flow path

CIVIL DRAWING LIST

Drawing No.	Drawing Title
C100	COVER SHEET AND GENERAL NOTES
C110	EROSION AND SEDIMENT CONTROL PLAN
C111	EROSION AND SEDIMENT CONTROL SITE ACCESS PLAN
C112	EROSION AND SEDIMENT CONTROL DETAIL
C115	CATCHMENTS PLAN
C120	STORMWATER AND SITEWORKS PLAN - SHEET 1
C121	STORMWATER AND SITEWORKS PLAN - SHEET 2
C140	DETAILS SHEET

FileName: C100.dwg – USER: samp – Plot File Created: Jan 09, 2020 - 5:00pm

A1 0 1 2 3 4 5 6 7 8 9 10

PRELIMINARY

Rev	Description	Eng	Draft	Date
P5	60% ISSUE	AL	SP	10.01.20
P4	REVISED FOR DA	AL	PM	18.12.19
P3	40% ISSUE	AL	PM	25.11.19
P2	ISSUED FOR DA	AL	MB	05.09.19
P1	ISSUED FOR DA	AL	MB	26.08.19

Rev Description Eng Draft Date | Rev Description Eng Draft Date | Rev Description Eng Draft Date

Architect
MAYOH ARCHITECTS
60 STRATHALLEN AVENUE, NORTHBRIDGE NSW 2063

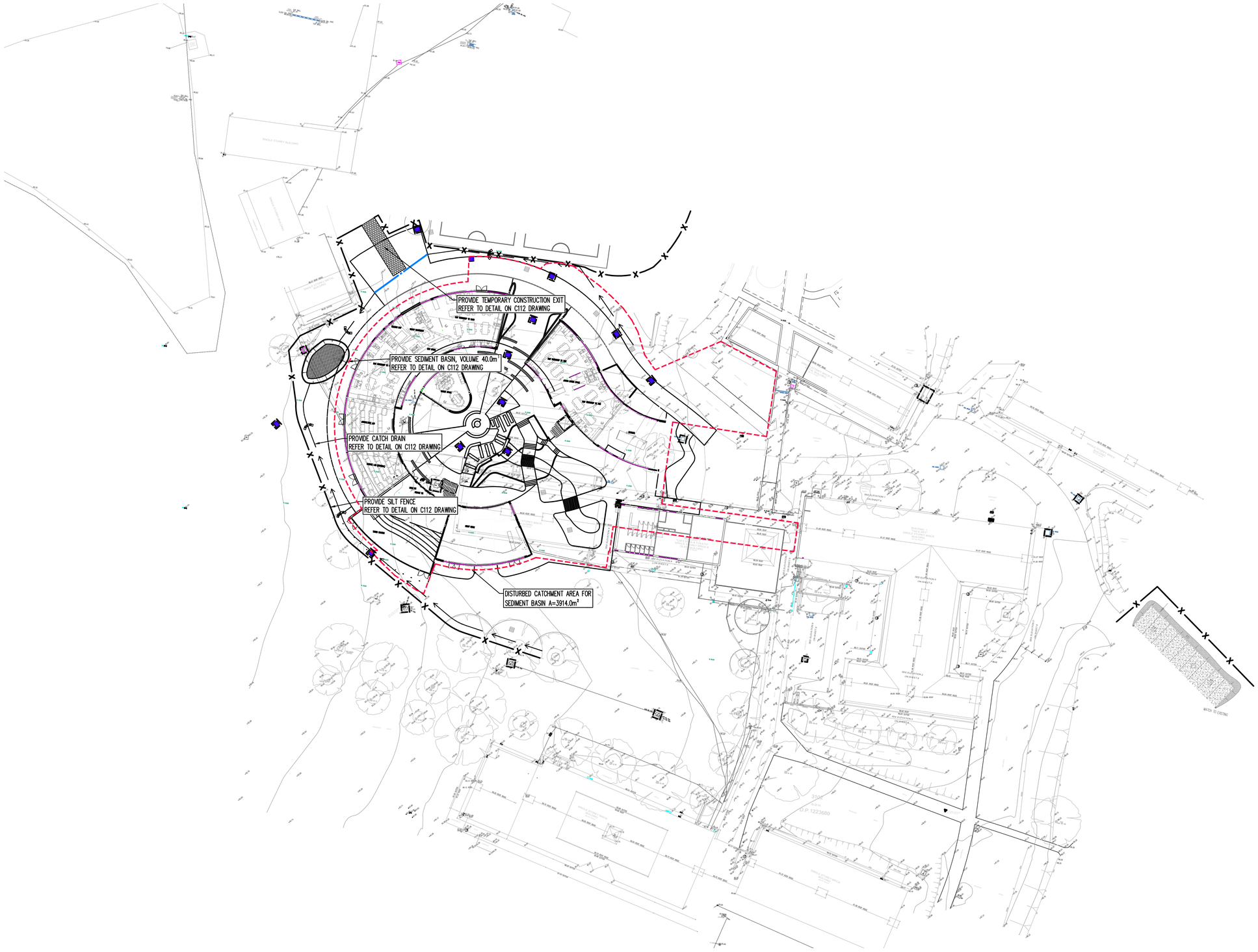
Structural Engineer
Taylor Thomson Whitting
612 9439 7288 | 48 Chandos Street St Leonards NSW 2065

Project
MACARTHUR ANGLICAN SCHOOL - STAGE 1
COBBITTY NSW 2570

Sheet Subject
COVER SHEET AND GENERAL NOTES

Scale : A1 NTS | Drawn MB | Authorised AL
Job No 191499 | Drawing No C100 | Revision P5
Plot File Created: Jan 09, 2020 - 5:00pm

THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL RELEVANT NOTES ON DRAWING C100



EROSION AND SEDIMENT CONTROL PLAN

SCALE 1: 400

EROSION AND SEDIMENT CONTROL NOTES

1. All work shall be generally carried out in accordance with
   (A) Local authority requirements,
   (B) EPA – Pollution control manual for urban stormwater,
   (C) LANDCOM NSW – Managing Urban Stormwater: Soils and Construction ("Blue Book").
2. Erosion and sediment control **drawings and notes are** provided for the whole of the works. Should the Contractor stage these works then the design may be required to be modified. Variation to these details may require approval by the relevant authorities.
   The erosion and sediment control **plan** shall be implemented and adapted to meet the varying situations as work on site progresses.
3. Maintain all erosion and sediment control devices to the satisfaction of the superintendent and the local authority.
4. When stormwater pits are constructed prevent site runoff entering the pits unless silt fences are erected around pits.
5. Minimise the area of site being disturbed at any one time.
6. Protect all stockpiles of materials from scour and erosion. Do not stockpile loose material in roadways, near drainage pits or in watercourses.
7. All soil and water control measures are to be put back in place at the end of each working day, and modified to best suit site conditions.
8. Control water from upstream of the site such that it does not enter the disturbed site.
9. All construction vehicles shall enter and exit the site via the temporary construction entry/exit.
10. All vehicles leaving the site shall be cleaned and inspected before leaving.
11. Maintain all stormwater pipes and pits clear of debris and sediment. Inspect stormwater system and clean out after each storm event.
12. Clean out all erosion and sediment control devices after each storm event.

Sequence Of Works

1. Prior to commencement of excavation the following soil management devices must be installed.
1.1. Construct silt fences below the site and across all potential runoff sites.
1.2. Construct temporary construction entry/exit and divert runoff to suitable control systems.
1.3. Construct measures to divert upstream flows into existing stormwater system.
1.4. Construct sedimentation traps/basin including outlet control and overflow.
1.5. Construct turf lined swales.
1.6. Provide sandbag sediment traps upstream of existing pits.
2. Construct geotextile filter pit surround around all proposed pits as they are constructed.
3. On completion of pavement provide sand bag kerb inlet sediment traps around pits.
4. Provide and maintain a strip of turf on both sides of all roads after the construction of kerbs.

WATER QUALITY TESTING REQUIREMENTS

Prior to discharge of site stormwater, groundwater and seepage water into council's stormwater system, contractors must undertake water quality tests in conjunction with a suitably qualified environment consultant outlining the following:

- Compliance with the criteria of the Australian and New Zealand Guidelines for Fresh and Marine Water Quality (2000)
- If required subject to the environmental consultants advice, provide remedial measures to improve the quality of water that is to be discharged into Councils storm water drainage system.This should include comments from a suitably qualified environmental consultant confirming the suitability of these remedial measures to manage the water discharged from the site into Councils storm water drainage system. Outlining the proposed, ongoing monitoring, contingency plans and validation program that will be in place to continually monitor the quality of water discharged from this site. This should outline the frequency of water quality testing that will be undertaken by a suitably qualified environmental consultant.

EROSION AND SEDIMENT CONTROL LEGEND

- Batter
- Siltation fence
- Stormwater pit with Geotextile filter surround
- Hay bale barriers
- Sandbag sediment trap
- Catch drain
- Overland flow path

FileName: C110.dwg – USER: sump – Plot File Created: Jan 09, 2020 – 4:40pm

0 4 8 12 16 20 24 28 32m

1:400 A1 1:800 A3

PRELIMINARY

Rev	Description	Eng	Draft	Date
P3	60% ISSUE	AL	SP	10.01.20
P2	REVISED FOR DA	AL	AI	19.12.19
P1	REVISED FOR DA	AL	KHA	18.12.19

Rev Description Eng Draft Date

Rev Description Eng Draft Date

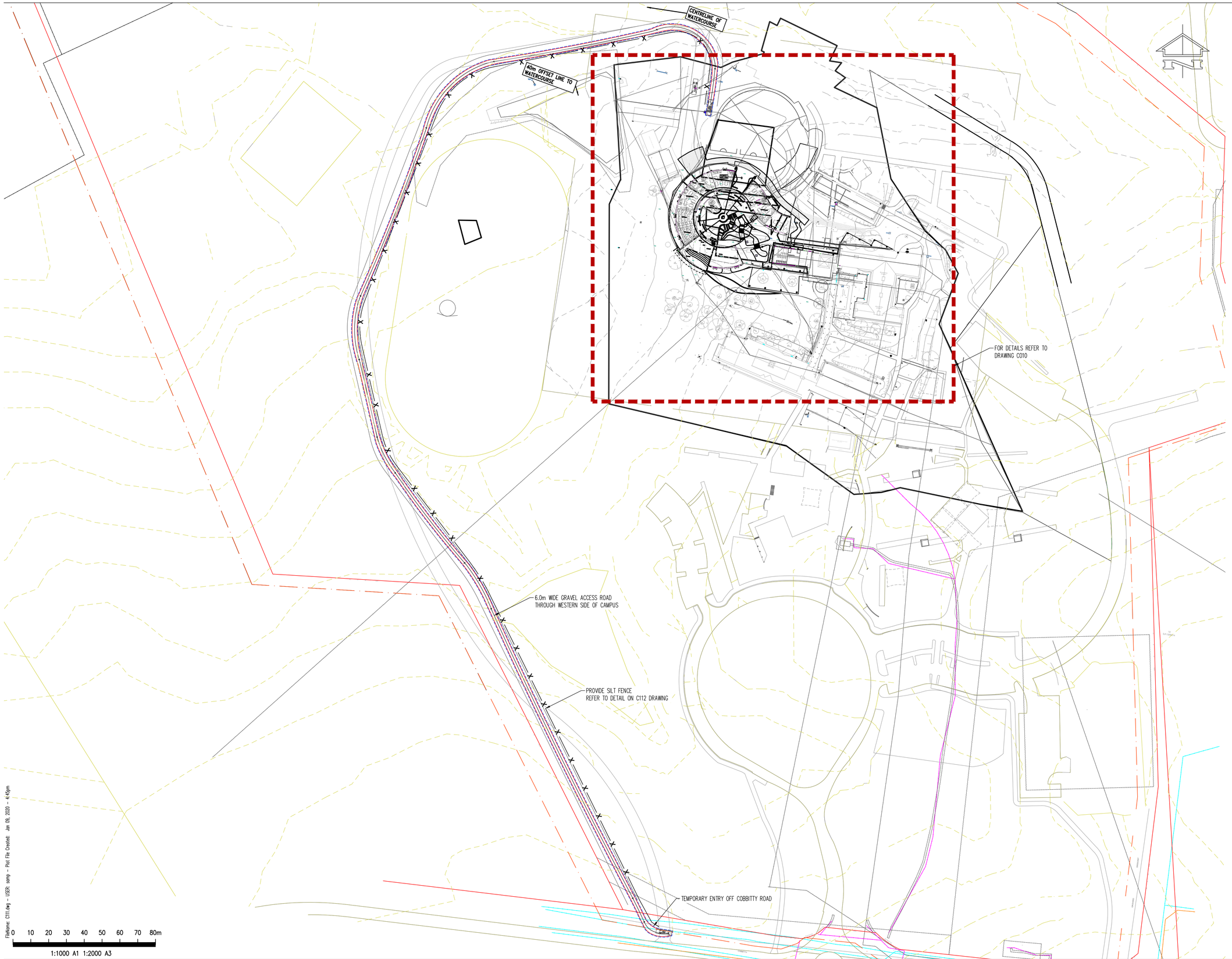
Architect
MAYOH ARCHITECTS
60 STRATHALLEN AVENUE, NORTHBRIDGE NSW 2063

Structural Engineer
Taylor Thomson Whitting
612 9439 7288 | 48 Chandos Street St Leonards NSW 2065

Project
MACARTHUR ANGLICAN SCHOOL - STAGE 1
COBBITTY NSW 2570

Sheet Subject
EROSION AND SEDIMENT CONTROL SITE PLAN

Scale : A1 1:400
Drawn MB
Authorised AL
Job No 191499
Drawing No C110
Revision P3
Plot File Created: Jan 09, 2020 - 4:40pm



FileName: C111.dwg - USER: samp - Plot File Created: Jan 09, 2020 - 4:45pm

THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL RELEVANT NOTES ON DRAWING C100

EROSION AND SEDIMENT CONTROL NOTES

1. All work shall be generally carried out in accordance with
   (A) Local authority requirements,
   (B) EPA – Pollution control manual for urban stormwater,
   (C) LANDCOM NSW – Managing Urban Stormwater: Soils and Construction ("Blue Book").
2. Erosion and sediment control **drawings and notes are** provided for the whole of the works. Should the Contractor stage these works then the design may be required to be modified. Variation to these details may require approval by the relevant authorities.
   The erosion and sediment control **plan** shall be implemented and adapted to meet the varying situations as work on site progresses.
3. Maintain all erosion and sediment control devices to the satisfaction of the superintendent and the local authority.
4. When stormwater pits are constructed prevent site runoff entering the pits unless silt fences are erected around pits.
5. Minimise the area of site being disturbed at any one time.
6. Protect all stockpiles of materials from scour and erosion. Do not stockpile loose material in roadways, near drainage pits or in watercourses.
7. All soil and water control measures are to be put back in place at the end of each working day, and modified to best suit site conditions.
8. Control water from upstream of the site such that it does not enter the disturbed site.
9. All construction vehicles shall enter and exit the site via the temporary construction entry/exit.
10. All vehicles leaving the site shall be cleaned and inspected before leaving.
11. Maintain all stormwater pipes and pits clear of debris and sediment. Inspect stormwater system and clean out after each storm event.
12. Clean out all erosion and sediment control devices after each storm event.

Sequence Of Works

1. Prior to commencement of excavation the following soil management devices must be installed.
1.1. Construct silt fences below the site and across all potential runoff sites.
1.2. Construct temporary construction entry/exit and divert runoff to suitable control systems.
1.3. Construct measures to divert upstream flows into existing stormwater system.
1.4. Construct sedimentation traps/basin including outlet control and overflow.
1.5. Construct turf lined swales.
1.6. Provide sandbag sediment traps upstream of existing pits.
2. Construct geotextile filter pit surround around all proposed pits as they are constructed.
3. On completion of pavement provide sand bag kerb inlet sediment traps around pits.
4. Provide and maintain a strip of turf on both sides of all roads after the construction of kerbs.

WATER QUALITY TESTING REQUIREMENTS

Prior to discharge of site stormwater, groundwater and seepage water into council's stormwater system, contractors must undertake water quality tests in conjunction with a suitably qualified environment consultant outlining the following:

- Compliance with the criteria of the Australian and New Zealand Guidelines for Fresh and Marine Water Quality (2000)
- If required subject to the environmental consultants advice, provide remedial measures to improve the quality of water that is to be discharged into Councils storm water drainage system.This should include comments from a suitably qualified environmental consultant confirming the suitability of these remedial measures to manage the water discharged from the site into Councils storm water drainage system. Outlining the proposed, ongoing monitoring, contingency plans and validation program that will be in place to continually monitor the quality of water discharged from this site. This should outline the frequency of water quality testing that will be undertaken by a suitably qualified environmental consultant.

EROSION AND SEDIMENT CONTROL LEGEND

- Batter
- Siltation fence
- Stormwater pit with Geotextile filter surround
- Hay bale barriers
- Sandbag sediment trap
- Catch drain
- Overland flow path

PRELIMINARY

Rev	Description	Eng	Draft	Date
P3	60% ISSUE	AL	SP	10.01.20
P2	REVISED FOR DA	AL	AI	19.12.19
P1	REVISED FOR DA	AL	KHA	18.12.19

Rev Description Eng Draft Date | Rev Description Eng Draft Date

Architect
MAYOH ARCHITECTS
60 STRATHALLEN AVENUE, NORTHBRIDGE NSW 2063

Structural Engineer
Taylor Thomson Whitting
612 9439 7288 | 48 Chandos Street St Leonards NSW 2065

Project
MACARTHUR ANGLICAN SCHOOL - STAGE 1
COBBITTY NSW 2570

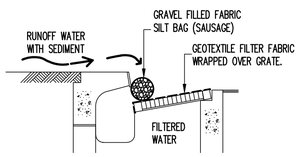
Sheet Subject
EROSION AND SEDIMENT CONTROL SITE ACCESS PLAN

Scale : A1	Drawn	Authorised
1:1000	MB	AL

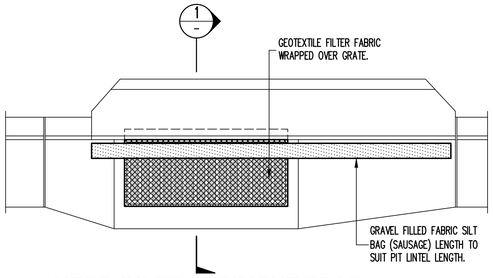
Job No	Drawing No	Revision
191499	C111	P3

Plot File Created: Jan 09, 2020 - 4:45pm

THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL RELEVANT NOTES ON DRAWING C100

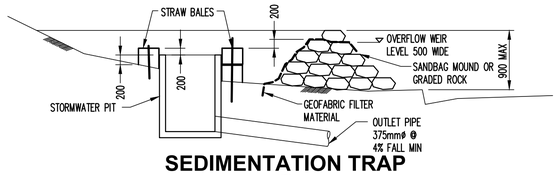


SECTION 1
SCALE 1:20



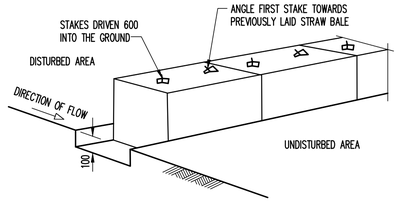
KERB INLET SEDIMENT TRAP

SCALE 1: 20



SEDIMENTATION TRAP

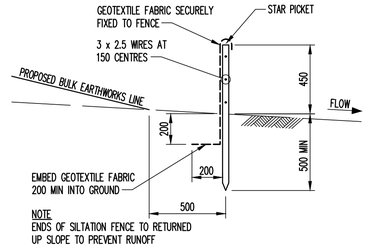
NTS



HAY BALE SEDIMENT FILTER

NTS

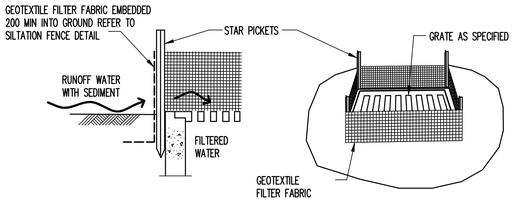
NOTE: STAKE TO BE EITHER TAR COATED STAR OR 50 x 50 HARDWOOD



NOTE
ENDS OF SILTATION FENCE TO RETURNED UP SLOPE TO PREVENT RUNOFF

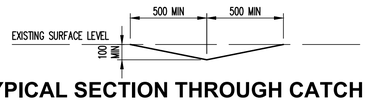
SILTATION FENCE DETAIL

SCALE 1: 20



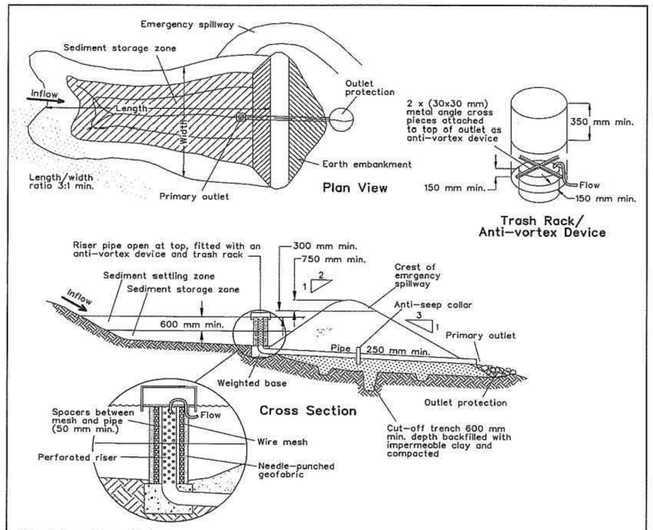
GEOTEXTILE FILTER PIT SURROUND

NTS



TYPICAL SECTION THROUGH CATCH DRAIN

SCALE 1: 20



Construction Notes

1. Remove all vegetation and topsoil from under the dam wall and from within the storage area.
2. Form a cut off trench under the centreline of the embankment 600 mm deep and 1,200 mm wide, extending to a point on the watercourse wall above the riser sill level.
3. Maintain the trench free of water and recompact the materials with equipment as specified in the SWMP to 95 per cent Standard Proctor Density.
4. Select fill according to the SWMP that is free from roots, wood, rock, large stone or foreign material.
5. Prepare the site under the embankment by ripping to at least 100 mm to help bond the compacted fill to the existing substrate.
6. Spread the fill in 100 mm to 150 mm layers and compact it at optimum moisture content following the SWMP.
7. Install the pipe outlet with seepage collars as specified in the SWMP and Standard Drawing 6-3b.
8. Form batter grades at 2(H):1(V) upstream and 3(H):1(V) downstream or as specified in the SWMP

EARTH BASIN - DRY

(APPLIES TO 'TYPE C' SOILS ONLY)

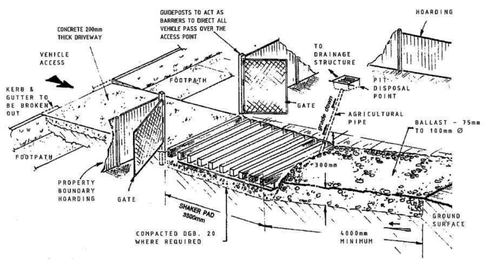
SD 6-3

STABILISED ACCESS POINT

TYPE II SAP

THE TYPE II SAP DESIGN IS MORE DEFINED IN THAT IT REQUIRES AN AREA OF BALLAST WITHIN THE SITE COMBINED WITH A SHAKER PAD; ADJACENT THE SHAKER PAD AND IN THE PUBLIC WAY IS A TEMPORARY (CONCRETE) VEHICULAR CROSSING. (SEE DIAGRAM)

STABILISED ACCESS POINT - TYPE 2



NOTES

IN BOTH TYPE I AND TYPE II SAPS, THE TEMPORARY VEHICULAR CROSSING MUST:

CONNECT TO AN EXISTING GUTTER LAYBACK (WHERE KERB AND GUTTER EXIST). IF A GUTTER LAYBACK DOES NOT EXIST THEN THE CONNECTION MUST BE MADE TO THE GUTTER BY REMOVING THE ADJACENT KERB SECTION ONLY.
CONNECT TO A DISH CROSSING (WHERE KERB AND GUTTER DOES NOT EXIST). IF A DISH CROSSING DOES NOT EXIST, THEN IT MUST BE CONSTRUCTED IN ACCORDANCE WITH DETAILS CONTAINED IN COUNCIL'S ISSUED FOOTPATH CROSSING LEVELS.

IT SHOULD BE NOTED THAT THESE TYPES OF SAPS ARE CONSIDERED TO BE APPLICABLE FOR THE MAJORITY OF ACTIVITIES HOWEVER SOME SITES MAY REQUIRE SPECIAL CONSIDERATION.

SHAKER PAD (CATTLE-GRID)

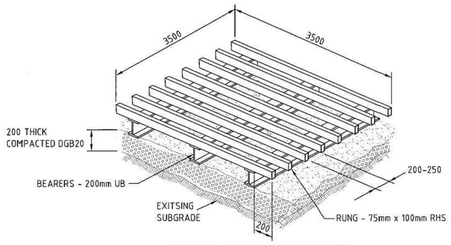
A CORRECTLY DESIGNED AND INSTALLED SHAKER PAD WILL ASSIST IN PREVENTING SEDIMENT TRANSFER FROM A SITE. ANY STABILISED ACCESS POINT (SAP) CAN BE DESIGNED WITH A SHAKER PAD (COMPULSORY IN TYPE II SAP'S).

SHAKER PADS CAN BE DESIGNED AND CONSTRUCTED TO ENABLE RE-USE ON FUTURE PROJECTS.

THE SHAKER PAD:

- MUST BE DESIGNED AND CERTIFIED BY A PRACTICING STRUCTURAL ENGINEER. THE CERTIFIED DESIGN SHOULD BE SUBMITTED WITH THE RELEVANT APPLICATION
- CAN BE CONSTRUCTED FROM ANY SUITABLE MATERIAL
- MUST BE LOCATED ON A SUITABLY PREPARED AND COMPACTED SUB-GRADE/BASE MATERIAL
- MUST BE SITUATED SUCH THAT THE RUNGS OF THE SHAKER PAD ARE LEVEL WITH THE ADJOINING NATURAL SURFACE
- MUST BE A MINIMUM 3.5M IN LENGTH
- MUST BE A MINIMUM 3.5M IN WIDTH
- MUST HAVE CLEAR SPACING BETWEEN RUNGS OF 200 - 250MM
- RUNGS MUST HAVE A MAXIMUM WIDTH (BEARING AREA) OF 75MM
- MUST HAVE A MINIMUM CLEAR DEPTH OF 300MM IE FROM THE TOP OF THE RUNG TO THE FINISHED SUB-GRADE/BASE LEVEL

THE SHAKER PAD MUST BE PROVIDED WITH SUITABLE BARRIERS AT THE SIDES TO ENSURE THAT ALL TYRES OF VEHICLES LEAVING THE SITE TRAVERSE THE DEVICE.



SHAKER PAD (CATTLE-GRID)

REVISION	DATE	DESCRIPTION	DRAWN.	APP.
A	JAN 2009	FIRST ISSUE	A.P.	C.M.

camden council

TITLE			SCALE
STABILISED ACCESS POINT			NTS
APPROVED	DATE	DRAWING No.	REV
C. McINTYRE	JAN 2009	SD31	A

PRELIMINARY

Rev	Description	Eng	Draft	Date	Rev	Description	Eng	Draft	Date	Rev	Description	Eng	Draft	Date
P5	REVISED FOR DA	AL	KHA	18.12.19										
P4	40% ISSUE	AL	PM	25.11.19										
P3	ISSUED FOR DA	AL	MB	05.09.19										
P2	DRAFT DA	AL	MB	27.08.19										
P1	DRAFT DA	AL	MB	26.08.19	P6	60% ISSUE	AL	SP	10.01.20					

Architect
MAYOH ARCHITECTS
60 STRATHALLEN AVENUE, NORTHBRIDGE NSW 2063

Structural Engineer
TTW Taylor Thomson Whitting
612 9439 7288 | 48 Chandos Street St Leonards NSW 2065

Project
MACARTHUR ANGLICAN SCHOOL - STAGE 1
COBBITTY NSW 2570

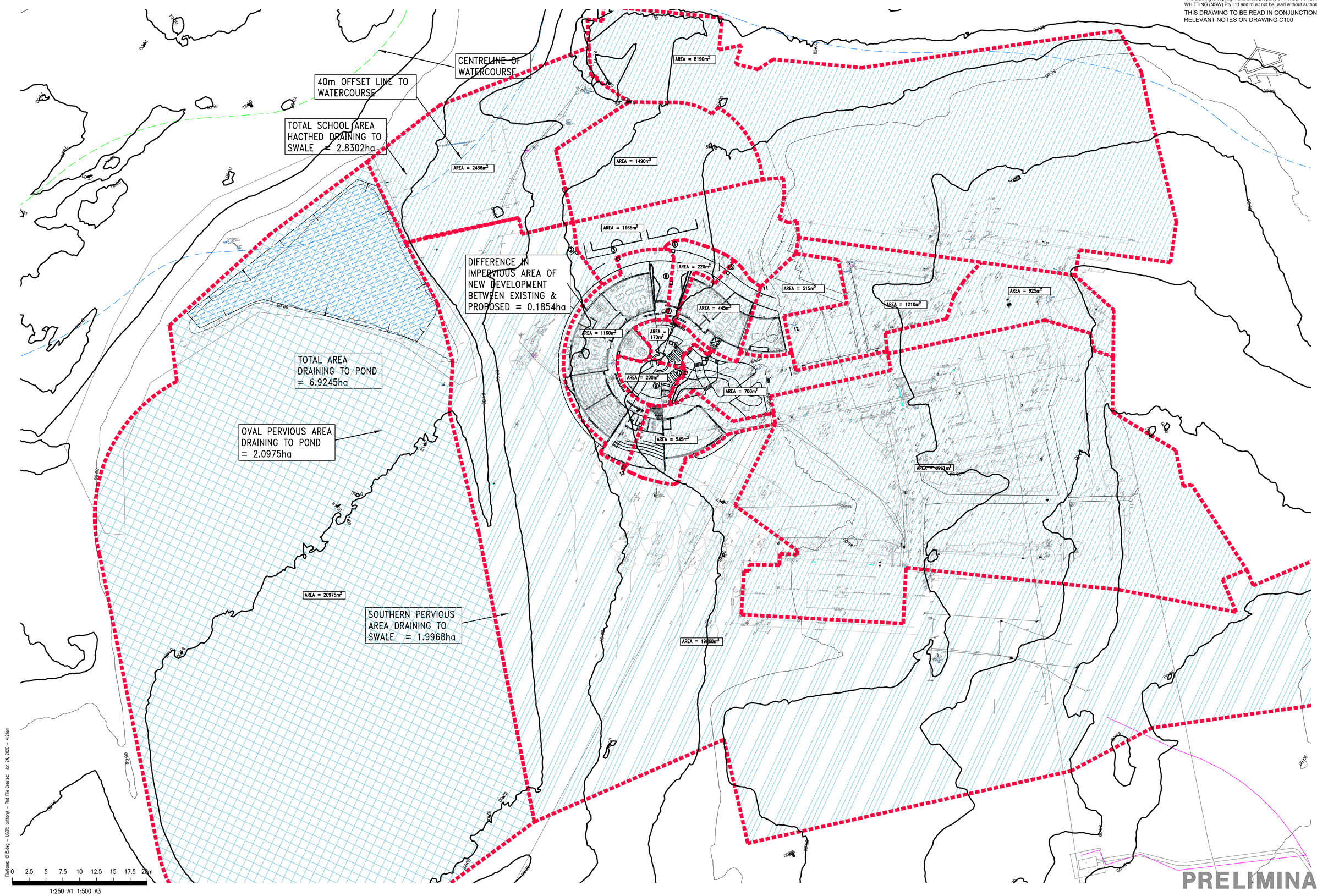
Sheet Subject
EROSION AND SEDIMENT CONTROL DETAILS

Scale : A1	Drawn	Authorised
AS SHOWN	MB	SB
Job No	Drawing No	Revision
191499	C112	P6

Plot File Created: Jan 09, 2020 - 4:46pm

FileName: C112.dwg - USER: somp - Plot File Created: Jan 09, 2020 - 4:46pm

THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL RELEVANT NOTES ON DRAWING C100



FileName: C115.dwg - USER: anthonyl - Plot File Created: Jan 24, 2020 - 4:21am

PRELIMINARY

Rev	Description	Eng	Draft	Date
P3	REISSUED FOR DA	AL	SP	23.01.20
P2	REISSUED FOR DA	AL	AI	19.12.19
P1	ISSUED FOR DA	AL	SP	18.12.19

Architect
MAYOH ARCHITECTS
60 STRATHALLEN AVENUE, NORTHBRIDGE NSW 2063

Structural Engineer
TTW Taylor Thomson Whitting
612 9439 7288 | 48 Chandos Street St Leonards NSW 2065

Project
MACARTHUR ANGLICAN SCHOOL - STAGE 1
COBBITTY NSW 2570

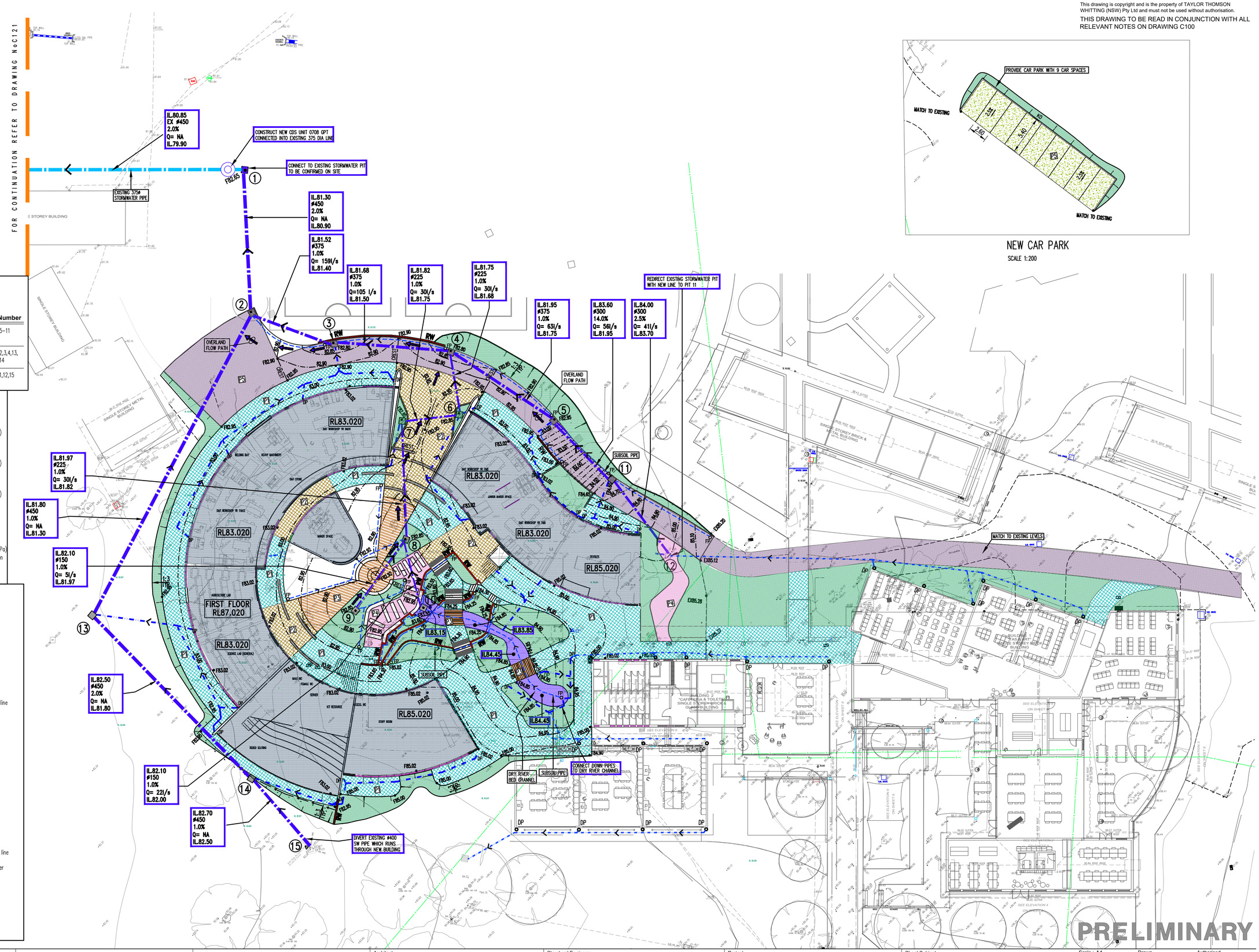
Sheet Subject
CATCHMENT PLAN

Scale : A1	Drawn	Authorised
1:500	SP	AL

Job No	Drawing No	Revision
191499	C115	P3

Plot File Created: Jan 24, 2020 - 4:21am

THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL RELEVANT NOTES ON DRAWING C100



PIT SCHEDULE

Note: Grate size does not necessarily reflect pit size, refer pit type details, shown on detail sheets – **C140**
Final internal pit dimensions are to comply with AS3500

Type	Description	Cover (Clear Opening)	Number
A	Surface inlet pit	600 x 900 Class C galvanised mild steel grate hinged to frame	5–11
		900 x 900 Class C galvanised mild steel grate hinged to frame	2,3,4,13, 14
C		Existing pit to remain	1,12,15

PAVEMENT LEGEND

CONCRETE BLOCK PAVING (P1) — 400mmX400mmX40mm THICK (REFER LANDSCAPE ARCHITECT DOCUMENTS)

CONCRETE BLOCK PAVING (P2) — 400mmX400mmX40mm THICK (REFER LANDSCAPE ARCHITECT DOCUMENTS)

HARDWOOD TIMBER (P3) — 130mmX19mm (REFER LANDSCAPE ARCHITECT DOCUMENTS)

DECOMPOSED GRANITE (P4) — REFER LANDSCAPE ARCHITECT DOCUMENTS

CONCRETE PAVING (C1) — 130mm THICK Thickness concrete (f'c=32MPa) with SL92 fabric (40 top cover) on 100mm Compacted thickness fine crushed rock (DGB 20)

SITEWORKS LEGEND

- F22.20 — Finished surface level
- F22.00 — Finished contour
- K&G — Kerb and gutter
- KO — Kerb only
- FK — Flush kerb
- DD — Dish drain
- 150ø uPVC Minor Stormwater line
- Stormwater pit, flow direction and main line with
- IL10.00 / 600 ø 'Z' / 1.25% / Q=345 L/s / IL9.65 — Invert level upstream; Pipe size and class; Pipe grade; Flow (Litres per second); Invert level downstream
- GD — Grated drain
- IR — Intermediate riser with subsoil drainage line (100 dia)
- FP — Flushing point with subsoil drainage line (100 dia)
- DP — Down pipe
- RP — Rodding point
- Concrete encased stormwater line
- Stormwater line with pipe taper and flow direction
- Taper kerb to zero height over 500 mm
- Wheelstop
- RW# — Blockwork retaining wall
- RW# — Brickwork retaining wall

FileName: C120_DA.dwg – USER: anthony – Plot File Created: Jan 24, 2020 – 4:00am

PRELIMINARY

Rev	Description	Eng	Draft	Date
P5	ISSUED FOR DA	AL	MB	03.09.19
P4	ISSUED FOR DA	AL	MB	27.08.19
P3	ISSUED FOR DA	AL	MB	26.08.19
P2	DRAFT DA	AL	MB	23.08.19
P1	DRAFT DA	AL	MB	06.08.19

Rev	Description	Eng	Draft	Date
P10	REISSUED FOR DA	AL	AI	19.12.19
P9	REISSUED FOR DA	AL	SP	18.12.19
P8	40% ISSUE	AL	PM	25.11.19
P7	ISSUED FOR DA	AL	MB	06.09.19
P6	ISSUED FOR DA	AL	MB	05.09.19

Rev	Description	Eng	Draft	Date

Architect
MAYOH ARCHITECTS
60 STRATHALLEN AVENUE, NORTHBRIDGE NSW 2063

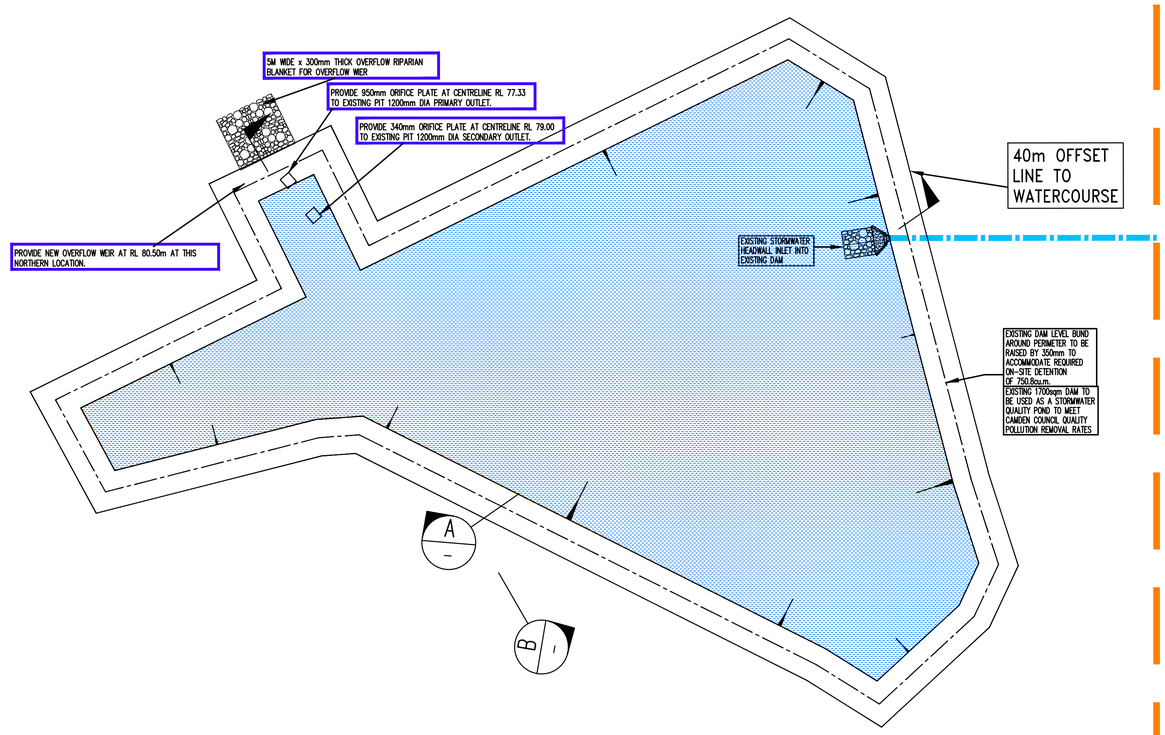
Structural Engineer
Taylor Thomson Whitting
612 9439 7288 | 48 Chandos Street St Leonards NSW 2065

Project
MACARTHUR ANGLICAN SCHOOL - STAGE 1
COBBITTY NSW 2570

Sheet Subject
SITEWORKS & STORMWATER PLAN SHEET 1

Scale : A1 — 1:200
Drawn — PM
Authorised — SB
Job No — 191499
Drawing No — C120_DA
Revision — P10
Plot File Created: Jan 24, 2020 - 4:00am

THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL RELEVANT NOTES ON DRAWING C100



FOR CONTINUATION REFER TO DRAWING NoC120

PAVEMENT LEGEND

CONCRETE BLOCK PAVING — 400mmX400mmX40mm THICK (REFER LANDSCAPE ARCHITECT DOCUMENTS)

CONCRETE BLOCK PAVING — 400mmX400mmX40mm THICK (REFER LANDSCAPE ARCHITECT DOCUMENTS)

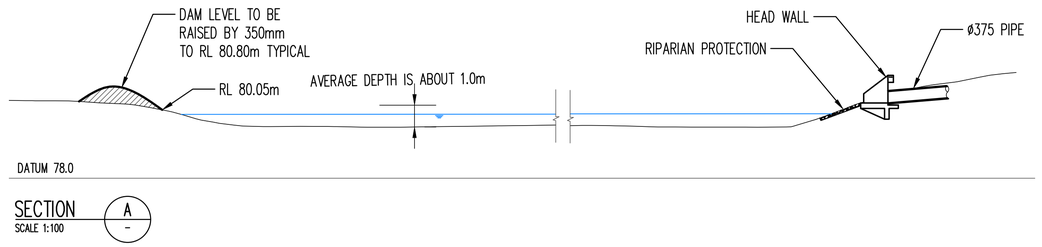
HARDWOOD TIMBER — 130mmX19mm (REFER LANDSCAPE ARCHITECT DOCUMENTS)

DECOMPOSED GRANITE — REFER LANDSCAPE ARCHITECT DOCUMENTS

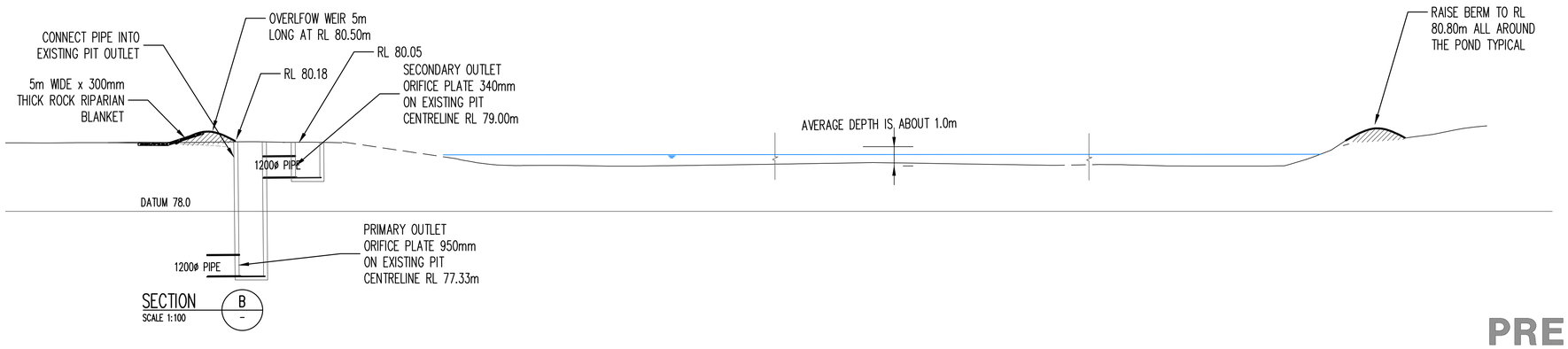
CONCRETE PAVING — 130mm THICK Thickness concrete (f'c=32MPa) with SL92 fabric (40 top cover) on 100mm Compacted thickness fine crushed rock (DGB 20)

SITEWORKS LEGEND

- F22.20 — Finished surface level
- F22.00 — Finished contour
- K&G — Kerb and gutter
- KO — Kerb only
- FK — Flush kerb
- DD — Dish drain
- 150ø uPVC Minor Stormwater line
- Stormwater pit, flow direction and main line with
- IL10.00 / 600 ø 'Z' / 1.25% / Q=345 L/s / IL9.65 — Invert level upstream / Pipe size and class / Pipe grade / Flow (Litres per second) / Invert level downstream
- GD — Grated drain
- IR — Intermediate riser with subsoil drainage line (100 dia)
- FP — Flushing point with subsoil drainage line (100 dia)
- DP — Down pipe
- RP — Rodding point
- Concrete encased stormwater line
- Stormwater line with pipe taper and flow direction
- Taper kerb to zero height over 500 mm
- Wheelstop
- RW# — Blockwork retaining wall
- RW# — Brickwork retaining wall



SECTION A – SCALE 1:100



SECTION B – SCALE 1:100

PRELIMINARY

Rev	Description	Eng	Draft	Date
P4	REVISED FOR DA	AL	SP	23.01.20
P3	REVISED FOR DA	AL	AI	19.12.19
P2	REVISED FOR DA	AL	KHA	18.12.19
P1	40% ISSUE	AL	PM	25.11.19

Rev Description Eng Draft Date | Rev Description Eng Draft Date

Architect: MAYOH ARCHITECTS, 60 STRATHALLEN AVENUE, NORTHBRIDGE NSW 2063

Structural Engineer: TTW Taylor Thomson Whitting, 612 9439 7288 | 48 Chandos Street St Leonards NSW 2065

Project: MACARTHUR ANGLICAN SCHOOL - STAGE 1, COBBITTY NSW 2570

Sheet Subject: SITEWORKS & STORMWATER PLAN SHEET 2

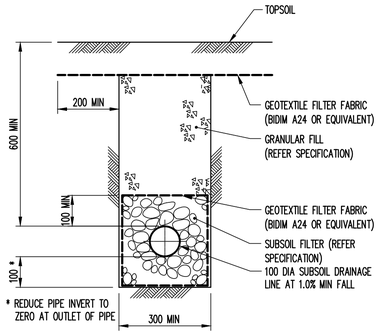
Scale : A1: 1:250 | Drawn: PM | Authorised: SB

Job No: 191499 | Drawing No: C121 | Revision: P4

Plot File Created: Jan 24, 2020 - 4:03am

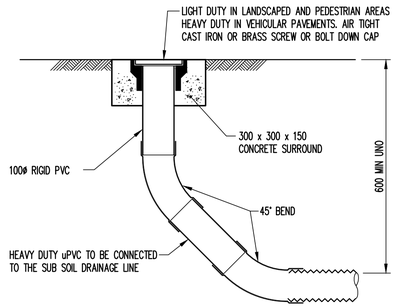
FileName: C121.dwg – USER: anthonyk – Plot File Created: Jan 24, 2020 – 4:03am

THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL RELEVANT NOTES ON DRAWING C100



SUBSOIL IN LANDSCAPED AREAS

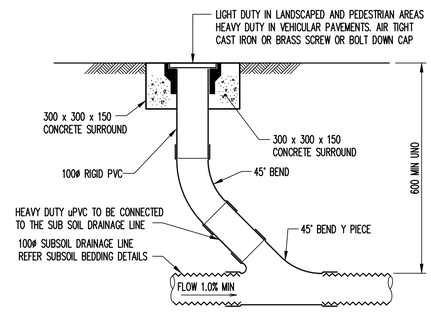
SCALE 1: 10



FLUSHING POINT (FP)

SCALE 1: 10

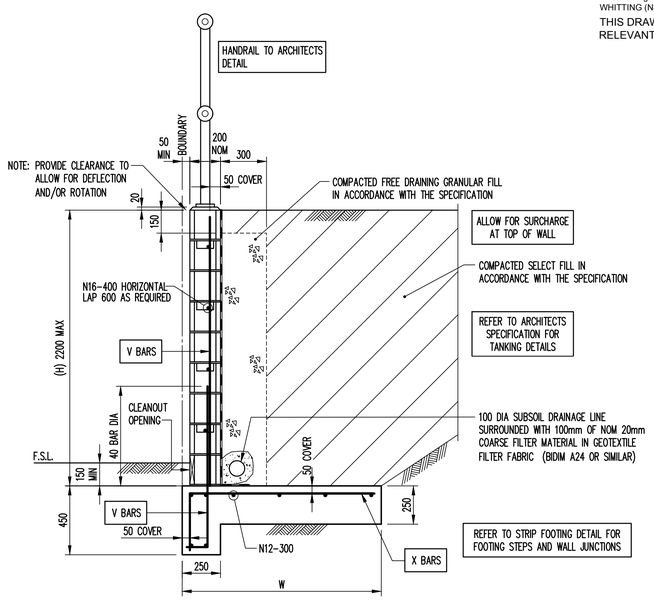
NOTE: SLOTTED RIGID PVC PIPE AND FITTINGS MAY BE USED



INTERMEDIATE RISER (IR)

SCALE 1: 10

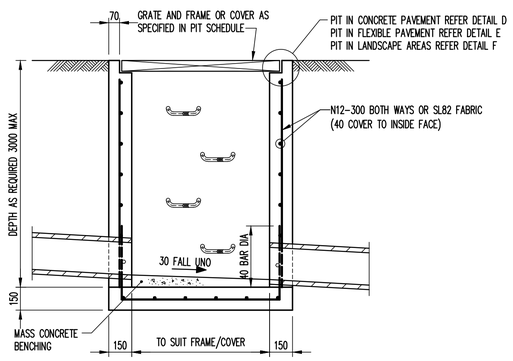
NOTE: SLOTTED RIGID PVC PIPE AND FITTINGS MAY BE USED



200 WALL RW

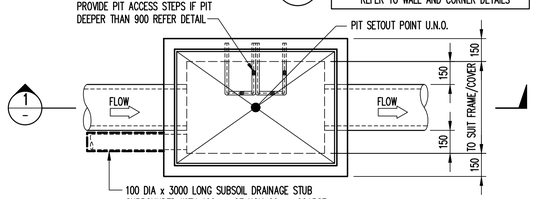
SCALE 1: 20

Type	Height (H)	Width (W)	V Bars	X Bars
A	1000	1050	N12-400	N12-400
A	1400	1200	N16-400	N16-400
A	1800	1500	N20-400	N16-400
A	2200	2050	N20-400	N20-400



SECTION 1 SCALE 1:20

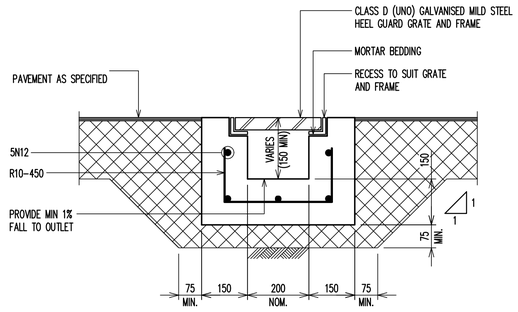
NOTE: IF REINFORCING FABRIC IS TO BE USED REFER TO WALL AND CORNER DETAILS



PLAN

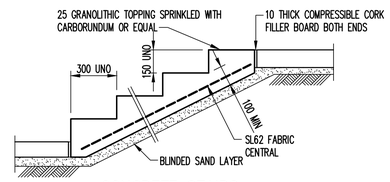
SCALE 1: 20

PIT TYPE A



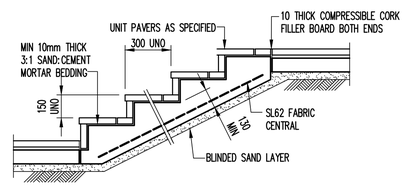
GRATED DRAIN (GD)

SCALE 1:10



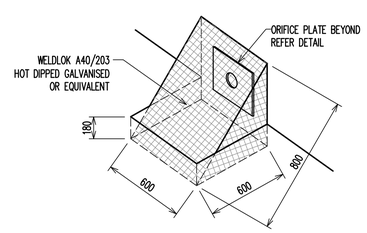
CONCRETE STAIRS

SCALE 1: 20



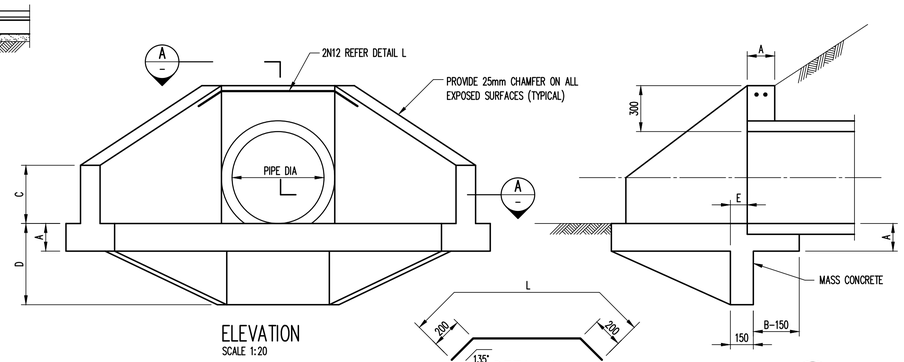
CONCRETE STAIRS WITH PAVERS

SCALE 1: 20



TRASH SCREEN DETAIL

NTS



ELEVATION

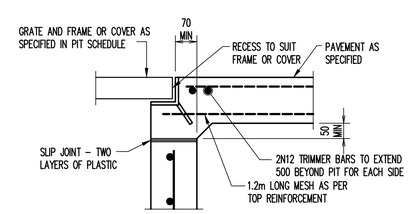
SCALE 1:20

DETAIL L

SCALE 1: 20

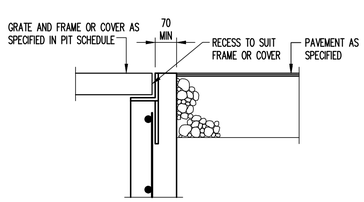
SECTION B

SCALE 1:20



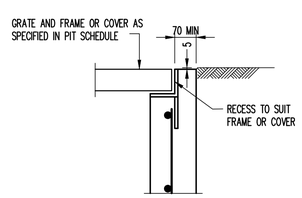
DETAIL D

SCALE 1: 10



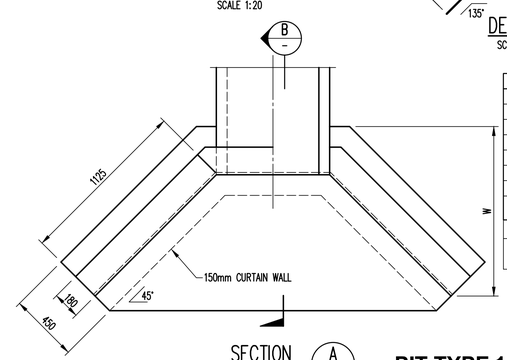
DETAIL E

SCALE 1: 10



DETAIL F

SCALE 1: 10



SECTION A

SCALE 1:20

PIPE DIAMETER		300	375	450	525	600	750	900
A		150	150	150	150	180	205	230
B		300	300	300	300	450	450	450
C		300	300	300	300	380	380	380
D		380	380	380	380	530	530	530
E		75	75	75	75	110	110	110
W		690	690	840	990	1120	1450	1780
L		840	840	915	990	1100	1250	1400
CONCRETE QUANTITY (cubic metres)		0.25	0.27	0.325	0.38	0.67	1.02	1.40
REINFORCEMENT DIAMETER		10	10	10	10	12	12	12
REINFORCEMENT	LENGTH (mm)	1680	1680	1830	1845	2200	2500	2800
	MASS (kg)	1.1	1.1	1.2	1.3	2.0	2.6	2.95

NOTE

COMPRESSIVE STRENGTH (F'c) FOR CAST IN-SITU CONCRETE TO BE A MINIMUM OF 25MPa AT 28 DAYS.

PIT TYPE 1

PRELIMINARY

FileName: C140.dwg – USER: samp – Plot File Created: Jan 09, 2020 – 4:58pm

A1 0 1 2 3 4 5 6 7 8 9 10

Rev	Description	Eng	Draft	Date
P5	REVISED FOR DA	AL	PM	18.12.19
P4	40% ISSUE	AL	PM	25.11.19
P3	ISSUED FOR DA	AL	MB	05.09.19
P2	ISSUED FOR DA	AL	MB	27.08.19
P1	ISSUED FOR DA	AL	MB	26.08.19
P6	60% ISSUE	AL	SP	09.01.20

Architect
MAYOH ARCHITECTS
60 STRATHALLEN AVENUE, NORTHBRIDGE NSW 2063

Structural Engineer
TTW Taylor Thomson Whitting
612 9439 7288 | 48 Chandos Street St Leonards NSW 2065

Project
MACARTHUR ANGLICAN SCHOOL - STAGE 1
COBBITTY NSW 2570

Sheet Subject
TYPICAL DETAILS SHEET

Scale : A1 — AS SHOWN
Drawn — MB
Authorised — AL
Job No — 191499
Drawing No — C140
Revision — P6
Plot File Created: Jan 09, 2020 - 4:58pm

place
design
group.

MACARTHUR ANGLICAN SCHOOL
INTEGRATED STUDIES CENTRE
DEVELOPMENT APPLICATION PACKAGE

MACARTHUR ANGLICAN SCHOOL
Through Christ Alone

MAYOH

Prepared for Macarthur Anglican School, 27th August 2019

place
design
group.

Australia
China
South East Asia

Follow us on

placedesigngroup.com

Report title	Macarthur Anglican School ISC DA Report
Document number	2519053
Prepared for	Macarthur Anglican School
Authors	Georgia Mcdonald, Eileen Yang
Revision number	A
Revision issue date	27th August 2019
Approved	NI
Reason for revision	Development Application

CONTENTS

EXTENT OF WORKS

Proposed built form

Extent of Landscape Works

place design group.

LANDSCAPE MASTERPLAN

LEGEND

- Hardwood timber deeck
- Custom hardwood timber bench
- Shade tolerant planting
- Tree planting
- Concrete stairs
- Decomposed granite paving with flush timber sleeper inlay
- Concrete retaining walls
- Dry creek bed
- Timber deck over dry creek bed
- Concrete pavers
- Feature concrete banding in Pavement
- Vertical garden
- Maintenance vehicle access

place design group.

INTERNAL COURTYARD PLAN

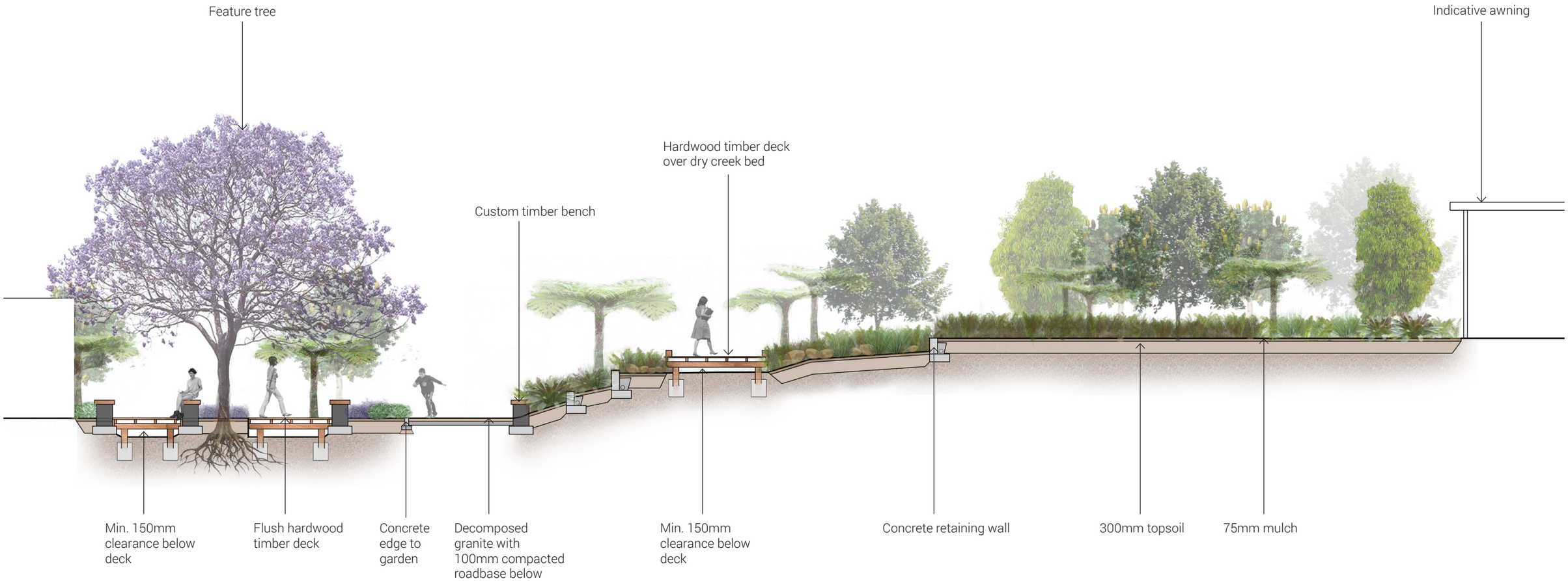
LEGEND

- Hardwood timber deck
- Custom hardwood timber bench
- Shade tolerant planting
- Tree planting
- Concrete stairs
- Decomposed granite paving with flush timber sleeper inlay
- Concrete retaining walls
- Dry creek bed
- Timber deck over dry creek bed
- Concrete pavers
- Feature concrete banding in Pavement
- Vertical garden
- Maintenance vehicle access

N 0 2 4 6 8 10M/ 1:200@A3

place design group.

INTERNAL COURTYARD - SECTION 1

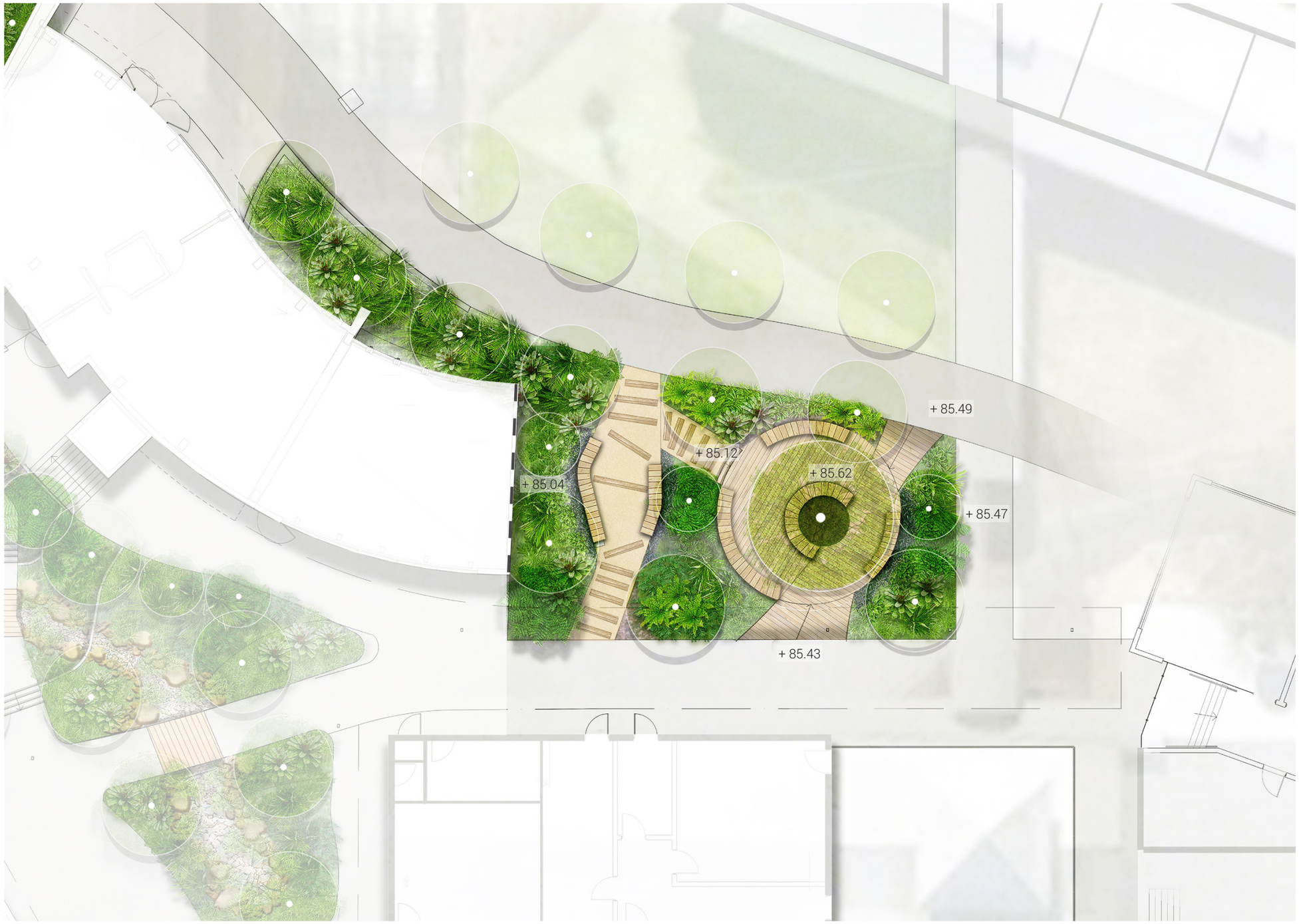


0 1 2 3 4 5M/ 1:100@A3

KINETIC COURTYARD PLAN

LEGEND

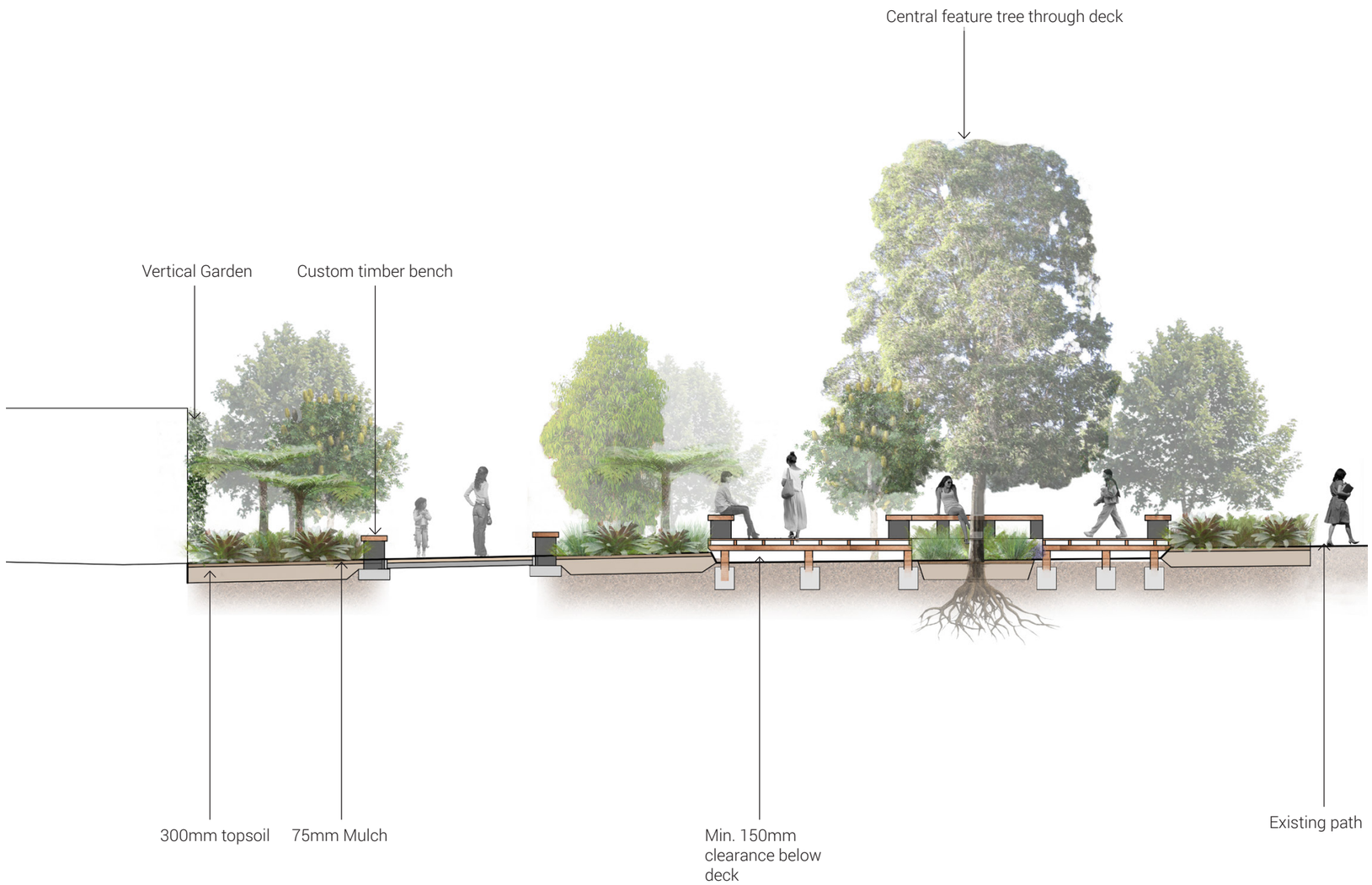
- Hardwood timber deck
- Custom hardwood timber bench
- Shade tolerant planting
- Tree planting
- Decomposed granite paving with flush timber sleeper inlay
- Concrete retaining wall
- Concrete pavers
- Vertical Garden
- Maintenance vehicle access
- Timber ramp to deck
- Timber steps to deck



N 0 2 4 6 8 10M/ 1:200@A3

place design group.

KINETIC COURTYARD - SECTION 2



0 1 2 3 4 5M/ 1:100@A3

TYPICAL TREE PLANTING PALETTE

TREE PLANTING SCHEDULE

SYM	Botanical Name	Common Name	Mature Height	Pot Size	Spacing /m2
EVERGREEN					
Bi	Banksia integrifolia	Coast Banksia	8m	100L	As shown
Cy	Cyathea cooperi	Australian Tree Fern	5m	300mm	As shown
Fb	Ficus brachypoda 'Podium'	fig tree	6m	100L	As shown
Lp	Lophostemon confertus	Brush Box	10m	100L	As shown
Lp	Melaleuca leucadendra	Weeping paperbark	8m	100L	As shown
Tl	Tristaniopsis laurina 'Luscious'	Water Gum	5m	100L	As shown
Wf	Waterhousea floribunda	Weeping Lily pilly	5m	100L	As shown
DECIDUOUS					
Gb	Ginkgo biloba	Maidenhair tree	5m	100L	As shown
Jm	Jacaranda mimosifolia	Jacaranda	10m	100L	As shown

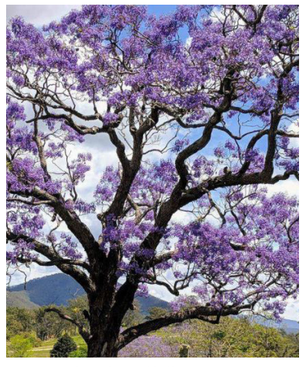
FEATURE TREE OPTIONS

Ginkgo biloba (Winter)
Maidenhair Tree

Ginkgo biloba (Summer)
Maidenhair Tree

Ficus brachypoda 'Podium'
Fig tree

Melaleuca leucadendra
Weeping Paperbark



Jacaranda mimosifolia
Jacaranda

Lophostemon confertus
Brush box

GENERAL TREES

Banksia serrata
old man banksia

Cyathea cooperi
Australian Tree Fern

Waterhousea floribunda
Weeping Lily pilly

Tristaniopsis laurina
kanooka

TYPICAL PLANTING PALETTE - FULL SUN TO PART SHADE

PLANTING SCHEDULE - FULL SUN TO PART SHADE

SYM	Botanical Name	Common Name	Mature Height	Pot Size	Spacing /m2
SHRUBS AND GRASSES					
Pt	Phormium tenax 'Purpurea'	New Zealand Flax	1m	200mm	2
Mct	Melaleuca 'Claret Tops'	Honey Myrtle	1m	150mm	3
De	Doryanthes excelsa	Gymea Lily	2m	200mm	1
Zf	Zamia furfuracea	Cardboard Cycad	1m	150mm	1
Mp	Murraya paniculata	Murraya	3m	150mm	2
Sl	Salvia leucantha	Mexican sage	0.9m	150mm	3
Wg	Westringia fruticosa 'Grey Box'	Native Rosemary	0.4m	150mm	5
Ll	Lomandra labillardieri ' Evergreen Baby'	Evergreen Baby	0.4m	150mm	6
Cbj	Callistemon 'Better John'	Better John	0.6m	150mm	4
Ri	Raphiolepsis indical 'Oriental Pearl'	Indian Hawthorn	0.8m	150mm	3
GROUNDCOVERS & CLIMBERS					
My	Myoporum parvifolium 'Yareena'	Creeping Boobialla	0.1m	150mm	3
Tj	Trachelospermum jasminoides	Star Jasmine	4m	150mm	3
Hv	Hardenbergia violacea	False Sarsaparilla	0.5m	150mm	3
Lpg	Loropetalum 'Purple Pixie'	Purple Pixie	0.4m	150mm	5


Phormium tenax purpurea
New Zealand Flax


Melaleuca linariifolia 'Claret Tops'
Honey Myrtle


Doryanthes excelsa
Gymea lily


Zamia furfuracea
Cardboard Cycad


Murraya paniculata
Murraya


Salvia leucantha
Mexican sage

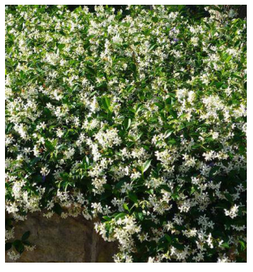

Westringia fruticosa
Grey Box


Lomandra 'Evergreen Baby'
'Evergreen Baby'

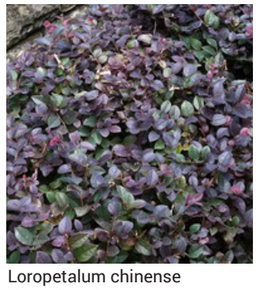

Callistemon 'Better John'
Blue Flax Lily Little Jess


Myoporum parvifolium
Creeping boobialla


Raphiolepis indica 'Oriental Pearl
Oriental Pearl Indian Hawthorn


Trachelospermum jasminoides
Star Jasmine


Hardenbergia violacea
False Sarsaparilla


Loropetalum chinense
Chinese fringe flower

TYPICAL PLANTING PALETTE - PART SHADE TO FULL SHADE

PLANTING SCHEDULE - PART SHADE TO FULL SHADE

SYM	Botanical Name	Common Name	Mature Height	Pot Size	Spacing /m2
SHRUBS					
Cf	Cordyline fruticosa 'Rubra'	Coryline Rubra	2.5m	200mm	2
Ac	Arthropodium cirratum	New Zealand Rock Lily	0.5m	150mm	4
Ah	Anemone hupehensis	Japanese Anemones	1.2m	150mm	4
Af	Alpinia formosana	Pinstripe Ginger	1.75m	150mm	1
Asp	Alcantarea imperialis 'Silver Plum'	Silver Plum	1m	300mm	1
Cr	Cycas revoluta	Sago Palm	2m	300mm	1
Ae	Aspidistra elatior	Cast Iron Plant	1.2m	150mm	4
Az	Alpinia zerumbet	Shell Ginger	1.5m	150mm	2
Aa	Asplenium australasicum	Birds Nest Fern	1.5m	300mm	1
Lsw	Liriope muscari 'Stripey White'	Varigated Lily-Turf	0.6m	150mm	6
Ljr	Liriope muscari 'Just right'	Just Right	0.5m	150mm	6
Li	Liriope muscari 'Isabella'	Isabella	0.5m	150mm	10
Leg	Liriope muscari 'Evergreen Giant'	Giant Turf Lily	0.5m	150mm	6
Pp	Plectranthus parviflorus	Cockspur Flower	0.5m	150mm	4
Px	Philodendron xanadu	Xanadu	1m	150mm	4
GROUNDCOVERS & CLIMBERS					
Ca	Cissus antarctica	Kangaroo Vine	1m	150mm	4
Dsf	Dichondra 'Silver Falls'	Dichondra	0.2m	150mm	6
Hm	Hosta 'Minute Man'	Plantain Lily	0.6m	150mm	3
Psa	Philodendron scandens aureum	Limeleaf Vine	0.15m	150mm	4
Tp	Tradescantia pallida 'Purpurea'	Purple heart	0.3m	150mm	6
Vh	Viola hederacea	Native Violet	0.1m	150mm	9


Cordyline fruticosa 'Rubra'
Cordyline Rubra

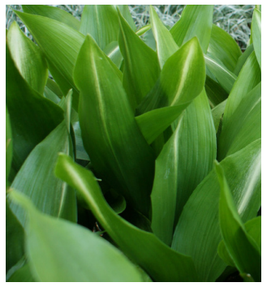

Arthropodium cirratum
New Zealand rock lily


Anemone hupehensis
Japanese anemones


Alpinia formosana
Pinstripe Ginger


Alcantarea imperialis 'Silver Plum'
Silver Plum


Cycas revoluta
Sago palm


Aspidistra elatior
Cast Iron Plant


Alpinia zerumbet
Shell Ginger


Asplenium australasicum
Birds Nest Fern


Liriope muscari 'Stripey White'
Varigated Lily-Turf


Liriope muscari 'Just right'
Just Right


Liriope muscari Isabella 'LIRF'
Isabella

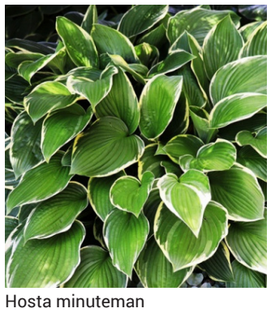

Liriope muscari 'Evergreen Giant'
Liriope Evergreen Giant

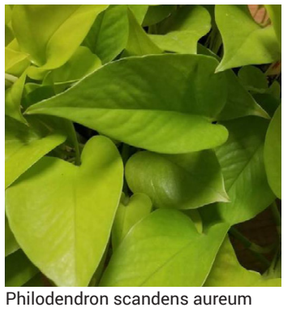

Plectranthus parviflorus
Cockspur Flower


Philodendron xanadu
Xanadu


Cissus antarctica
Kangaroo Vine


Dichondra 'Silver Falls'
Dichondra


Hosta minuteman
Plantain Lily


Philodendron scandens aureum
Limeleaf Vine


Tradescantia pallida 'Purpurea'
Star Jasmine


Viola hederacea
Native Violet

TYPICAL PLANTING PALETTE - RAIN GARDEN SPECIES

PLANTING SCHEDULE - RAIN GARDEN SPECIES

SYM	Botanical Name	Common Name	Mature Height	Pot Size	Spacing /m2
Bt	Baloskion tetraphylllum	Tassel Cord Rush	1m	150mm	4
Lkb	Lomandra hystrix ‘Katie Belles’	Mat Rush	1.5m	150mm	4
Ppl	Pennisetum alopecuroides ‘Purple Lea’	Purple Lea	0.8m	150mm	6
Wg	Westringia fruticosa 'Grey Box'	Native Rosemary	0.4m	150mm	5
Ljr	Liriope muscari ‘Just right’	Just Right	0.5m	150mm	6

Baloskion tetraphylllum
Tassel Cord Rush

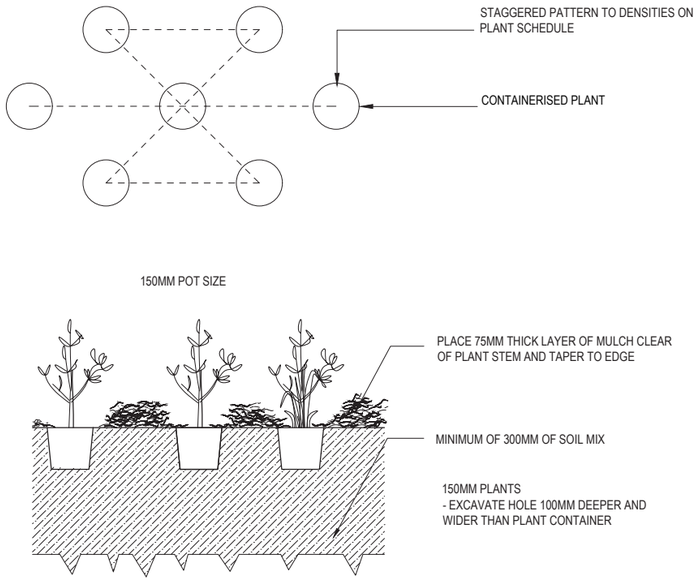
Lomandra hystrix ‘Katie Belles’
Mat Rush

Pennisetum alopecuroides ‘Purple Lea’
Purple Lea

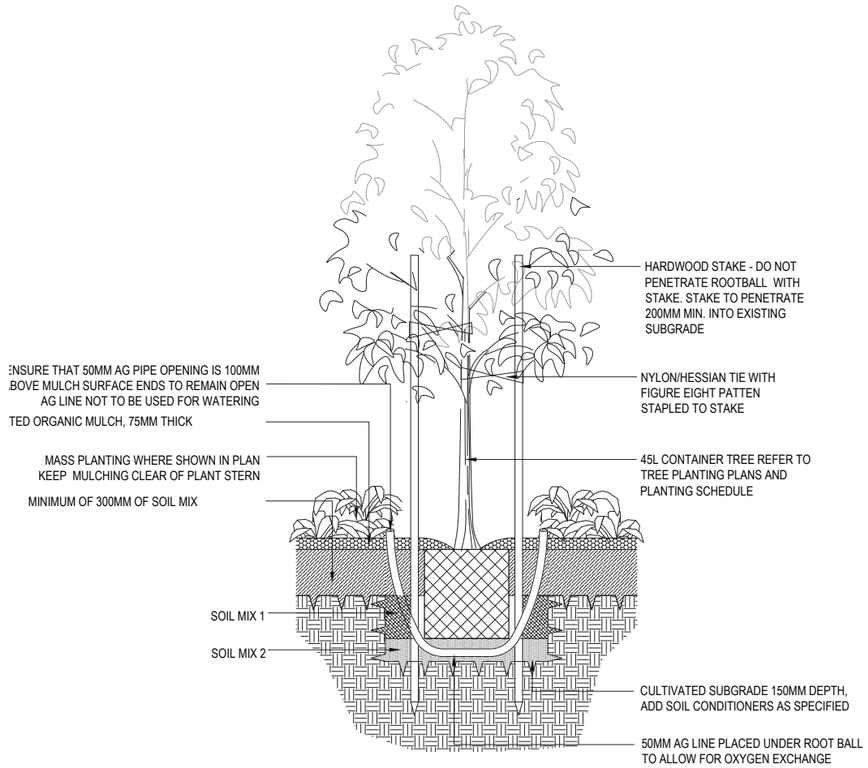
Westringia fruticosa ‘Grey Box’
Grey Box

Liriope muscari ‘Just right’
Just Right

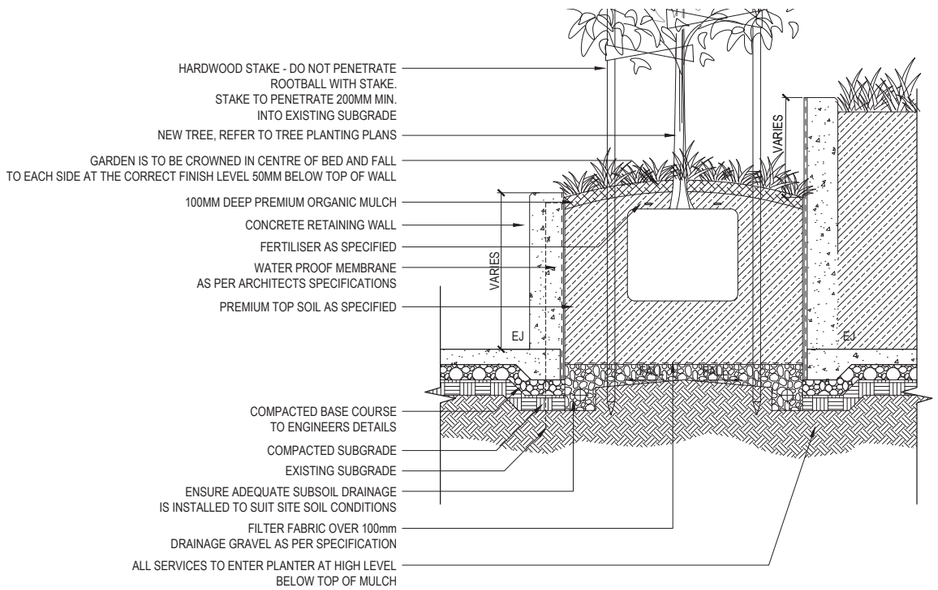
TYPICAL LANDSCAPE DETAILS



DETAIL 1: MASS PLANTING DETAIL 1:40@A3



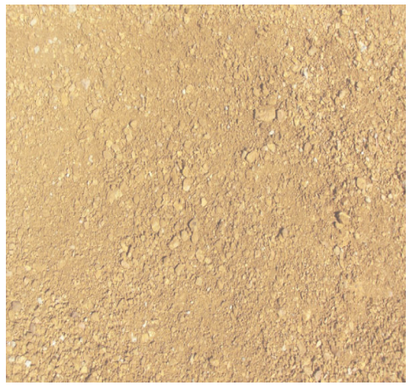
DETAIL 2: TREE PLANTING ON GRADE 1:40@A3



DETAIL 3: RETAINED PLANTER (ON GRADE) DETAIL 1:40@A3

MATERIALS PALLETTE

DECOMPOSED GRANITE



TIMBER DECKING (SPOTTED GUM)

TIMBER RAILWAY SLEEPER IN DECOMPOSED GRANITE

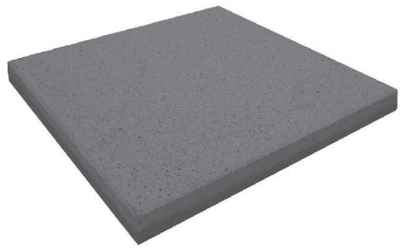
CUSTOM SEATING

RAINGARDEN/DRY CREEK BED

COLOR CONCRETE PAVER (EURO STONE, ADBRI MASONRY)

Riverina

Zurich



Prague

CONCRETE EDGING

VERTICAL GARDEN - WIRE AND MESH (RONSTAN)