New Primary School at Wilton Junction-Design Report-Civil Engineering

Prepared for NSW Department of Education

March 2025
Project Number S21306
Version C03

OPPORTUNITIES THROUGH EXCELLENCE

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BG&E

Contents

Document Control				
Revision	Date	Prepared	Reviewed	Approved
P01	31/01/2025	Shahid Mahfouz	Stephen Hazlewood	Stephen Hazlewood
P02	21/02/2025	Shahid Mahfouz	Abrar Mohammed	Stephen Hazlewood
C01	28/02/2025	Shahid Mahfouz	Abrar Mohammed	Stephen Hazlewood
C02	05/03/2025	Shahid Mahfouz	Abrar Mohammed	Stephen Hazlewood
C03	11/03/2025	Shahid Mahfouz	Abrar Mohammed	Stephen Hazlewood

1. Introduction

This design report has been prepared to support a Review of Environmental Factors (REF) for the NSW Department of Education (DoE) for the construction and operation of the new primary school at Wilton Junction (the activity).

The purpose of the REF is to assess the potential environmental impacts of the activity prescribed by State Environmental Planning Policy (Transport and Infrastructure) 2021 (T&I SEPP) as "activity permitted with mitigation measures" on land carried out by or on behalf of a public authority under Part 5 of the Environmental Planning and Assessment Act 1979 (EP&A Act). The activity is to be undertaken pursuant to Chapter 3, Part 3.4, Section 3.37A of the T&I SEPP.

This document has been prepared in accordance with the Guidelines for Division 5.1 assessments (the Guidelines) by the Department of Planning, Housing and Infrastructure (DPHI) as well as the Addendum Division 5.1 guidelines for schools. The purpose of this report is to provide the civil scheme for the proposed new public school at Wilton Junction (WJPS).

1.1 Site Context

The current street address is 200 Fairway Drive, Wilton, 2571, NSW. The site forms part of the northern portion of Lot 1063 in Deposited Plan 1289197) that was previously subdivided by Landcom. The site is approx.imately 3.4ha hectares in size and is located within Wilton Junction which is part of the North Wilton Precinct.

As a result of precinct wide rezonings, the surrounding locality is transitioning from a semi-rural residential area to a highly urbanised area with new low to medium density residential development with supporting services. North Wilton Precinct is approximately 85km south-west of the Sydney CBD, 30km north-west of Wollongong and 30km southwest of Campbelltown-Macarthur Strategic Centre. The precinct is located on the interchange with the Hume Highway, which connects the Southern Highlands with the Sydney metropolitan region to the northeast and Canberra to the south-west.

The proposed school site does not currently have road access, however Landcom is expected to deliver the road network and surrounding public domain network in accordance with DA/2022/1279/1. Proposed Road 14 located on the eastern boundary of the site will ultimately provide future access to the site. The site contains several patches of remnant native vegetation particularly within the northern portion of the site. The central part of the site has been predominantly cleared and consists of grassland. An aerial photograph of the site is provided at **Figure 1.**

Figure 1 – Aerial Photograph of the Site (Source: Urbis, 2024)

1.2 Project Description

The proposed activity is for the construction and operation of a new primary school at Wilton Junction which will accommodate up to 552 students and 35 staff. Additionally, the proposal includes an integrated pre-school which will capacity for up to 60 students and 7 staff. In total, the new school will support up to 612 students and 42 staff.

The new school includes general and support learning spaces, a library, administrative areas and a staff hub. Core facilities include a standalone school hall and canteen, two carparks, and a sports court.
Specifically, this proposal includes the following:

- Construction of a 3-storey learning hub which includes:
- 24x General Learning Spaces
- 3 x Support Learning Spaces
- Staff hub including administrative areas and library.
- Integrated public pre-school.
- Standalone hall and COLA with outside of school hours care (OSHC).
- Associated landscaping including sports court and separate outdoor play space for the preschool.
- Associated site utilities and services including installation of new 1500 kVA padmount substation and a new main switchboard.
- Main car park to the south of the site with 33 car spaces (including one accessible space).
- Separate car park for pre-school located to the north of the school with 18 spaces (including one accessible space).
- Main school pedestrian entrance proposed off Road 14.
- Earthworks.

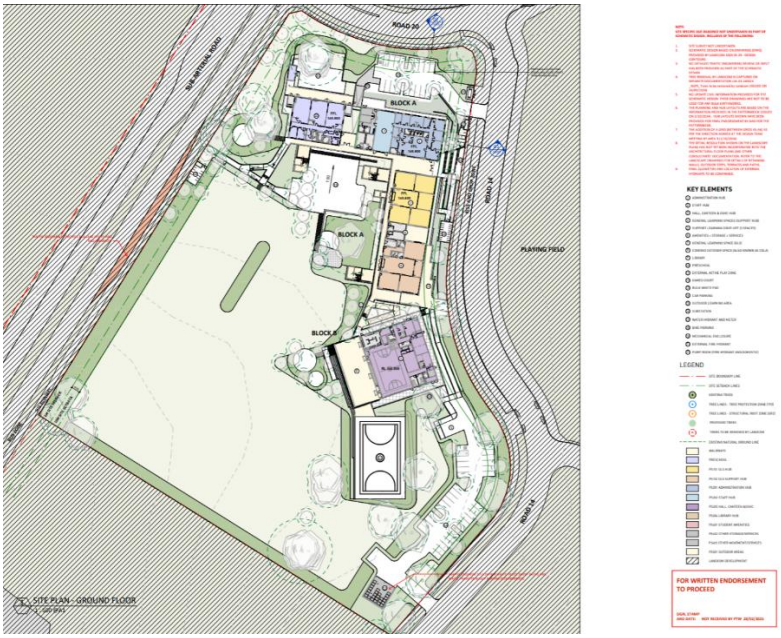


Figure 1 Proposed Site Plan Source: PTW, 2025

1.3 Reference Documents

Document	Revision	Date Issued
Architectural Drawings –100% CD – PTW	Various	18.02.2025

2. Mitigation Measures

Mitigation Measures should be clear, unambiguous and state any relevant timing or threshold for approval/delivery/completion or the like and not refer to sections of the consultant report or any other document. Each Consultant Report is to include a Mitigation Measures Table in their report as shown in Table 1 below.

Table 1 Mitigation Measures

Project Stage*	Mitigation Measures	Reason for Mitigation Measure	Section of Report
C	Implementation of Sediment and Erosion control measures as outlined in the sediment and erosion plan prepared by BG&E dated 28.02.2025	To manage disturbed soil during construction to limit and reduce the change of soil and sediment entering into waterways	Section 5
C	Implementation of Earthwork Design measures as outlined in the Earthwork plan prepared by BG&E dated 28.02.2025	Management of earthwork being moved around site to ensure additional earthworks are not carried out on site where its not required	Section 5
C	Implementation of Pavement Design measures as outlined in the Pavement plan and details prepared by BG&E dated 28.02.2025	Implementation of hard stand surfaces to ensure correct parts of the site are not subject to long-term activity that is not in line with the project	Section 5
C	Implementation of Stormwater management measures as outlined in the Siteworks and Drainage Plans prepared by BG&E dated 28.02.2025	Manage the quantity and quality of stormwater leaving the site after construction	Section 7

3. Existing Site

3.1 Site Analysis

The subject site will be within the Wilton Growth Area in the Wollondilly Shire Local Government Area, located in the southwest of the Sydney basin. The site slopes from the south-west corner (highest point at R.L 171 mA.H.D) to the north-west corner (lowest point at R.L 162.5 mA.H.D). The land is currently a greenfield with trees, and no existing infrastructure is present within the site. There is currently no development surrounding the subject site.

3.2 Existing Stormwater

There is currently no stormwater infrastructure on the site, which is situated away from existing road and building infrastructure. The subject site is predominantly part of a large greenfield area intended for future subdivision.

3.3 Geotechnical Assessment

A geotechnical investigation has been undertaken by Douglas Partners, titled Detailed Site Investigation (Contamination), and dated September 2022. The report identifies pit log data taken in close proximity to the subject site at Test Pit 224. According to the log information the general composition of the soil consists of topsoil with low plasticity Silty Clay CL up to a depth of 0.3m, followed by Silty Clay CL residual from 0.3 to 0.9m depths. The soil was further described as highly to moderately weathered dry shale from depths of 0.9m to 2m, where the pit log was discontinued.

3.4 Soil Contamination

Douglas Partners conducted a geotechnical investigation, assessing the potential contamination at the site based on past and present land uses at the proposed residential subdivision in North Wilton, NSW. The investigation concluded that the measured samples were below the adopted site assessment criteria (SAC) and were considered to have a low potential for contamination.

4. Proposed Activity

4.1 Design Proposal

The subject site is proposed to be develop a new public school for Wilton Junction within the Wilton Growth Area in the Wollondilly Shire. The Concept Design activity is set for the Wilton North Site, part of a Landcom subdivision. This project involves constructing the school, and includes essential facilities such as a Covered Outdoor Learning Area, outdoor play spaces, amenities, landscaped outdoor learning areas, dedicated parking, a Kiss and Drop and other off-site works are required, however will be carried out via a separate planning approval. Site Works, Grading and Earthworks

4.2 Design Intent

The general grading scheme will be developed to best utilise the natural fall across the site with consideration for accessibility requirements in consultation with the project Architect and landscape Architect. The paving will be graded to fall away from the buildings and covered area.

4.3 Design Criteria

Parameter	Criteria Adopted	Reference
General Earthworks	General Earthworks construction	AS/NZS 3798- Guidelines on Earthworks for Commercial and Residential Developments and Geotechnical and Contamination Service Intrusive Geotechnical investigation for Wilton Junction New Primary School by Green Geotechnics dated 13 June 2024
Placement of fill	The Contractor is to arrange and make available compaction testing results for all fill areas.	Contamination Service Intrusive Geotechnical investigation for Wilton Junction New Primary School by Green Geotechnics dated 13 June 2024
Batters	Temp and construction Batters 1h:1V in short term long term 2H:1V Batters are proposed to be constructed at 1V:4H slopes, with a nominal maximum of 1V:3H.for unreinforced mass planted areas	EFSG 0222 Earthworks Contamination Service Intrusive Geotechnical investigation for Wilton Junction New Primary School by Green Geotechnics dated 13 June 2024
Material Reuse	Residual Clayey soil and any bedrock won from the site during bulk excavation are considered suitable for re-use.	Contamination Service Intrusive Geotechnical investigation for Wilton Junction New Primary School by Green Geotechnics dated 13 June 2024

The proposed earthworks on site as a result of the activity of the new primary school results in 2,754.32 m^3 cut and 1759 m^3 of fill with a total balance of 994.63m^3 of cut from the site required.

4.4 Proposed Earthworks Strategy

The Site has been graded to limit bulk earthworks on site and to try to limit the proposed soil removal from the site. The cut-and-fill plan for the site is limited to the extent of the buildings, and no allowance has been made for landscaping and pavement fill requirements. The building levels vary across the site due to its natural slope, and FFLs have been designed to maximise the amount of cut that can be reused on-site as much as possible. Refer to the architectural drawings for details on FFLs. The proposed earthworks on site as a result of the activity of the new primary school results in 2,754.32 m^3 cut and 1759 m^3 of fill with a total balance of 994.63m^3 of cut from the site required.

Based on the geotechnical information provided by Green Geotechnics, the expectation is the excavation will encounter only residential fill overlaying class 4 & 5 shale. In the short term, any dry-cut slopes should remain stable at 1(V):1(H), with long-term dry cuts stable at 1(V):2(H). Based on the geotechnical investigation, any residual clayey soils and bedrock are suitable for engineered fill, but any topsoil should be only used for landscaped fill.

4.5 Pavements

Pavements are to meet the requirements of the Contamination Service Intrusive Geotechnical investigation for Wilton Junction New Primary School by Green Geotechnics dated 13 June 2024 and the ESFG. Based on the report, reactive overlying residual soils are present and need to be considered.

A CBR value of 5% has been recommended for pavement designs at 100% compaction. However, due to the 95% minimum compaction requirement on site, the pavements for this site have been designed assuming a CBR of 3%. The following items are also applicable:

- All Pavements are to be designed in accordance with AUSTROADS
- ESFG Pavement requirements

The two pavements have been standardised to trafficable and non-trafficable pavements:

- Trafficable pavement is to be 150mm thick concrete with a 100mm bound MB20 subbase.
- Non-trafficable pavement is to be 100mm thick concrete with 150mm DGS20 granular sub-base.

4.6 Erosion and Sediment Control Strategy

The contractor must implement erosion and sediment controls during construction to minimise the risk of sediment leaving the site and entering waterways. These controls and any additional controls installed on-site to be in line with the “blue book” and should be discussed with the engineer if any changes to the plans or recommendations are proposed

The REF plans document erosion and sediment controls, which include sediment fencing downhill slopes of disturbed areas around stockpile locations. The stockpile should be located at the highest point of the site as practicable and installed with a sediment fence on the downstream end to capture any sediment runoff.

Stabilised site access points are provided at key access points to ensure limited transfer of contaminants, with the allowance to install a washdown tap to further limit transfer. The nominal location is shown in BG&E's erosion and sediment control plans provided by BG&E, which a contractor on site will finalise.

All eternal kerb inlet pits adjacent to the site are to be installed with mesh and gravel inlet filters to capture sediment and debris from stormwater runoff before it enters a storm drain. The filters are to be regularly inspected and maintained as required.

Any proposed and existing pits being retained located within the site are to be installed with geotextile inlet filter traps.

5. Design Criteria

The stormwater design would be in accordance with relevant Australian Standards provided in Section 1.4. The proposed pits and pipes on the site will need to be designed to satisfy the minimum provisions stated in AS3500.3. The inground drainage system will need to be designed to cater for the 5% Annual Exceedance Probability (AEP) flows. Overland flow directions shall be considered when the pipe capacity on site is exceeded.

5.1 Onsite Stormwater Detention (OSD)

On-site Detention (OSD) is required for the proposed 3.4Ha activity as outlined in Wollondilly Council Development Control Plan 2016, Volume 7. The activity is required to comply with a minimum Site Storage Requirement (SSR) of 125kL/Ha (with a 50% impervious site cover) to achieve a Permissible Site Discharge (PSD) of 230 L/s/ha.

5.2 Stormwater Quality

The main objectives for stormwater quality are indicated in Section 6.2 of Wollondilly Council's Integrated Water Management Strategy. The technical requirements are presented below for the Draft Wilton DCP:

- Achieve a minimum of 90% retention of the Gross Pollutants (GP) average annual load.
- Achieve a minimum of 85% retention of the Suspended Solids (SS) average annual load.
- Achieve a minimum of 65% retention of the Total Phosphorus (TP) average annual load.
- Achieve a minimum of 45% retention of the Total Nitrogen (TN) average annual load.

Methods to achieve the above treatment targets can include the use of proprietary products, rainwater reuse, raingardens, detention basins or treatment further downstream within the external stormwater network.

Table 2: Summary of Catchment Plan Areas

Catchment Areas	m^2
Roof	4,394
Footpaths	4,356
Landscaping	22,648
Carpark	2,560
Total	33,958

5.3 Overland Flow

In the event that the underground drainage pipe system experiences failure caused by blockage or other obstructions, it will be necessary to redirect stormwater flows as overland flow. The objective is to guide the overland flow away from structures and toward the boundary of the site. The sizing of overland flow paths will be designed to handle storm flows corresponding to the 1% AEP.

5.4 Erosion and Sediment Control

It is essential to implement erosion and sediment control on site during the construction phase. The methods typically involve the management of stormwater on-site by diverting overland flow around the construction area and collecting the stormwater runoff using sediment control devices. The devices likely to be incorporated include, but are not limited to silt fences, grass-lined swales, sandbags, and sediment basins.

5.5 Flooding Requirement

Refer to TTW flood report.

6. Analysis Results

6.1 On-Site Detention

Stormwater runoff from the activity is required to be discharged at a controlled rate. The design is governed by the requirement set out in Wollondilly Council's Development Control Plan 2016, Volume 7. The subject site is required to achieve a minimum OSD tank volume of 424.47m^3 and PSD rate of 781.03 L/s based on the relevant rates set in the DCP. The proposed site complies with Council's stormwater requirements as the OSD tank volume is 428.4m^3 with a PSD rate of 778.43L/s. Refer to Appendix A for the proposed stormwater drainage.

6.2 Water Sensitive Urban Design Implementation

The water quality modelling software MUSIC V6.3 was used to analyse the performance of the treatment train. Figure 5 below shows the MUSIC node and link diagram used to describe the proposed treatment train. The model has been built to assess the adequacy of the proposed of the proposed stormwater treatment measure and ensure that stormwater quality meets the objectives prior to stormwater runoff leaving the site.

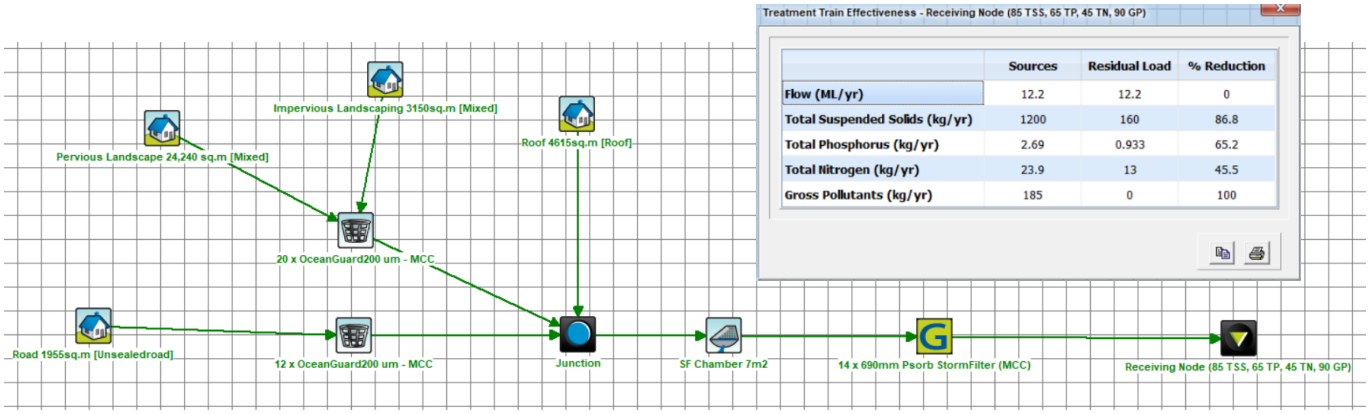


Figure 5 – MUSIC modelling

The results of the analysis showed that the treatment train would achieve the water quality targets set out in Wollondilly Council's DCP. Table 3 below displays the effectiveness of the treatment train for the primary and secondary treatment. To meet the requirements set out by Council, the following treatment devices were implemented 14x 690 Psorb (MCC) Storm Filters, along with a total of 32xOceanguard pit inserts from Ocean Protect or equivalent products.

The water quality model created using MUSIC software provides an indication of the pollutant removal rates expected when a treatment train of water quality measures is applied to the proposed layout of the activity.

Table 3: MUSIC Model Results

Pollutant	Prior Treatment (kg/yr.)	Post Treatment (kg/yr.)	Water Quality Objective (%)	Percentage Reduction Achieved (%)
Gross Pollutants (GP)	216	0	90	100
Total Suspended Solids (TSS)	1200	160	85	86.8
Total Phosphorus (TP)	2.69	0.933	65	65.2
Total Nitrogen (TN)	23.9	13.0	45	45.5

7. Evaluation of Environmental Impacts

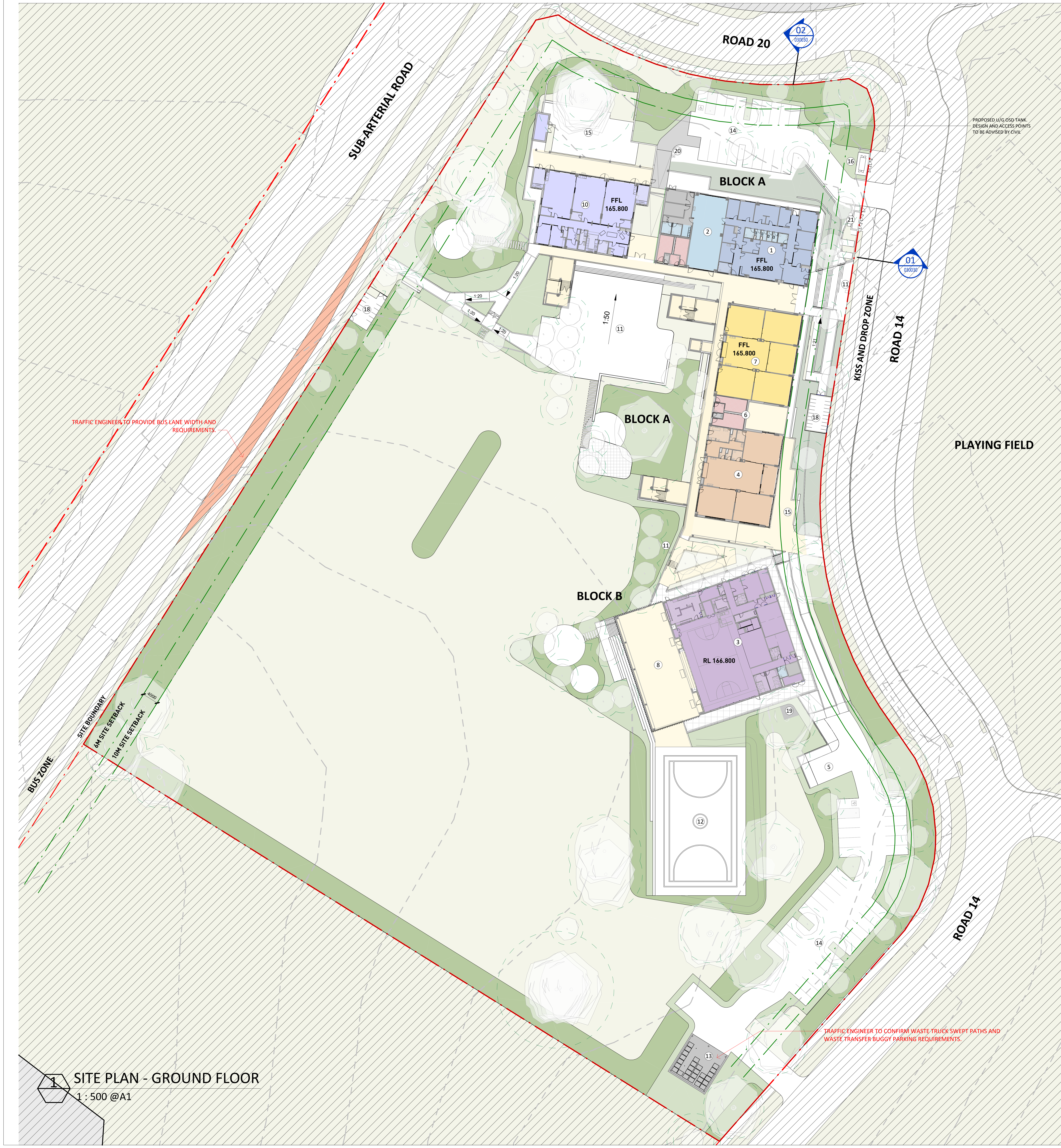
Based on the civil works discussed in this report the potential impacts can be appropriately mitigated or managed to ensure that there is minimal impact on the locality, community and/or the environment.

This covers the followings works:

- Sediment and Erosion controls
- Earthworks
- Pavement
- Stormwater quality and quantity

Appendices

Appendix A - Architectural Plans



1 SITE PLAN - GROUND FLOOR

1 : 500 @A1

A1

NOTE:
SITE SPECIFIC DUE DILIGENCE NOT UNDERTAKEN AS PART OF SCHEMATIC DESIGN. INCLUSIVE OF THE FOLLOWING:

1. SITE SURVEY NOT UNDERTAKEN.
2. SCHEMATIC DESIGN BASED ON DRAWINGS (DWG) PROVIDED BY LANDCOM 2024 05 29 - DESIGN CONTOURS
3. NO DETAILED TRAFFIC ENGINEERING REVIEW OR INPUT HAS BEEN PROVIDED AS PART OF THE SCHEMATIC DESIGN
4. TREE REMOVAL BY LANDCOM IS CAPTURED ON SEPARATE DOCUMENTATION LSK-01 240924 _WJPS_Trees to be removed by Landcom (ISSUED ON 24/09/2024)
5. NO UPDATE CIVIL INFORMATION PROVIDED FOR THE SCHEMATIC DESIGN. THESE DRAWINGS ARE NOT TO BE USED FOR ANY BULK EARTHWORKS.
6. THE PLANNING AND HUB LAYOUTS ARE BASED ON THE INFORMATION PROVIDED IN THE PATTERNBOOK (ISSUED ON 2/10/2024). HUB LAYOUTS SHOWN HAVE BEEN PROVIDED FOR FINAL ENDORSEMENT BY DAIS FOR THE PATTERNBOOK.
7. THE ADDITION OF A GRID (BETWEEN GRIDS A5-A6) AS PER THE DIRECTION AGREED AT THE DESIGN TEAM MEETING BY AREA 3 (1/10/2024)
8. THE DETAIL RESOLUTION SHOWN ON THE LANDSCAPE PLANS HAS NOT YET BEEN INCORPORATED INTO THE ARCHITECTURAL FLOOR PLANS AND OTHER CONSULTANTS' DOCUMENTATION. REFER TO THE LANDSCAPE DRAWINGS FOR DETAILS OF RETAINING WALLS, OUTDOOR STEPS, TERRACES AND PATHS.
9. FINAL QUANTITIES AND LOCATION OF EXTERNAL HYDRANTS TO BE CONFIRMED.

KEY ELEMENTS

1. ADMINISTRATION HUB
2. STAFF HUB
3. HALL, CANTEEN & OSHC HUB
4. GENERAL LEARNING SPACES (SUPPORT HUB)
5. SUPPORT LEARNING DROP-OFF (3 SPACES)
6. AMENITIES + STORAGE + SERVICES
7. GENERAL LEARNING SPACE (GLS)
8. COVERED OUTDOOR SPACE (ALSO KNOWN AS COLA)
9. LIBRARY
10. PRESCHOOL
11. EXTERNAL ACTIVE PLAY ZONE
12. GAMES COURT
13. BULK WASTE PAD
14. CAR PARKING
15. OUTDOOR LEARNING AREA
16. SUBSTATION
17. WATER HYDRANT AND METER
18. BIKE PARKING
19. MECHANICAL ENCLOSURE
21. EXTERNAL FIRE HYDRANT
21. PUMP ROOM (FIRE HYDRANT AND DOMESTIC)

LEGEND

- SITE BOUNDARY LINE
- SITE SETBACK LINES
- EXISTING TREES
- TREE LINES - TREE PROTECTION ZONE (TPZ)
- TREE LINES - STRUCTURAL ROOT ZONE (SRZ)
- PROPOSED TREES
- TREES TO BE REMOVED BY LANDCOM
- EXISTING NATURAL GROUND LINE
- WALKWAYS
- PRESCHOOL
- PS101 GLS HUB
- PS102 GLS SUPPORT HUB
- PS201 ADMINISTRATION HUB
- PS202 STAFF HUB
- PS203 HALL, CANTEEN &OSHC
- PS204 LIBRARY HUB
- PS401 STUDENT AMENITIES
- PS402 OTHER STORAGE/SERVICES
- PS403 OTHER MOVEMENT/SERVICES
- PS501 OUTDOOR AREAS
- LANDCOM DEVELOPMENT

FOR WRITTEN ENDORSEMENT TO PROCEED

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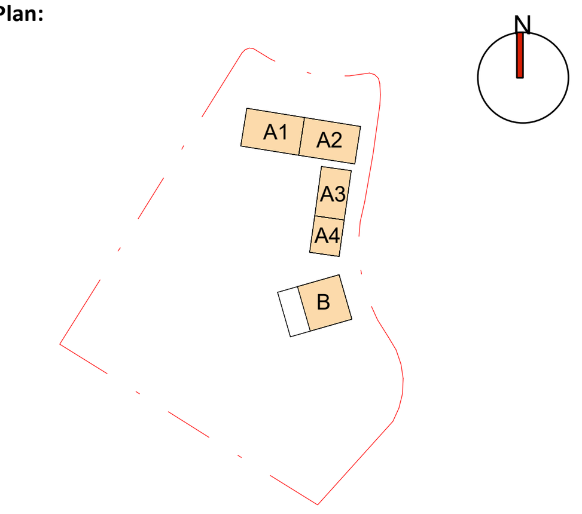

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Rev	Amendment	By	Chk*	Date
5	SCHEMATIC DESIGN - FINAL ISSUE	RQ	DJ	28/02/25
4	DRAFT SCHEMATIC DESIGN - REV 2	RQ	DJ	21/02/25
3	ISSUED FOR REF	FJ	DJ	14/02/25
2	DRAFT SCHEMATIC DESIGN	FJ	DJ	31/01/25
1	FOR INFORMATION	FJ	DJ	10/01/25

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Project PA030518
Wilton Junction Public School

200 Fairway Dr, Wilton, 2571, NSW
Dharawal and Gundungurra Country

Title
02 - SITE PLANS
SITE PLAN - GROUND FLOOR

0 1 2 5 8m
As indicated@A1

Drawing Number WJPS-PTW-ZZ-GF-DR-A-020001
Revision 5

Phase
SCHEMATIC DESIGN

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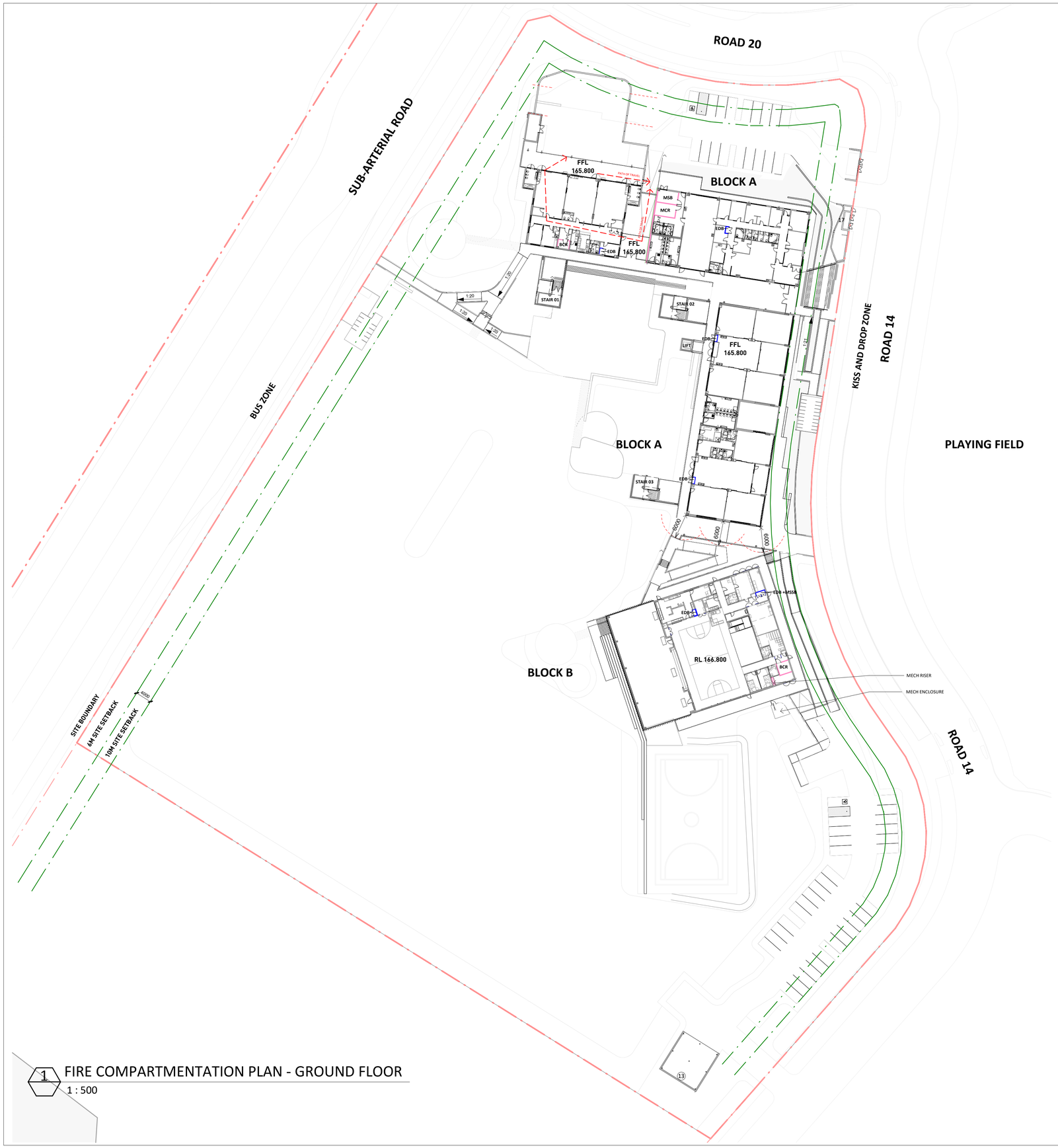

1 FIRE COMPARTMENTATION PLAN - GROUND FLOOR
1 : 500

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LEGEND

SITE BOUNDARY LINE

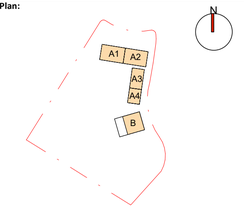
SITE SETBACK LINES

LEGEND WALL FRL
FRL - /60/60
FRL 60/60/60
FRL 120/120/120
FRL 120/120/120

FOR WRITTEN ENDORSEMENT TO PROCEED

SIGN, STAMP AND DATE: **NOT RECEIVED BY PTW 28/02/2025**

Key Plan:



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Project PA030518

Wilton Junction Public School

200 Fairway Dr, Wilton, 2571, NSW
Dharawal and Gundungurra Country

Title

06 - FIRE COMPARTMENTATION
FIRE COMPARTMENTATION PLAN - GROUND FLOOR

0 1 2 5 8m
As indicated@A1

Drawing Number WJPS-PTW-ZZ-GF-DR-A-060001 **Revision** 1

Phase
SCHEMATIC DESIGN

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EXTERNAL WORKS OUTSIDE BOUNDARY TO BE CONSTRUCTED BY LANDCOM

EXTERNAL WORKS OUTSIDE BOUNDARY TO BE CONSTRUCTED BY LANDCOM

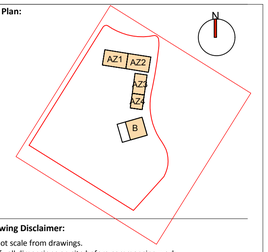
LEGEND

- EXTERNAL WORKS OUTSIDE SITE BOUNDARY BY LANDCOM
- BUILDING OUTLINE
- TF1 — NEW TURF TYPE 1 (TF1)
- MP1 — NEW GROUNDCOVER MASS PLANTING (MP1)
- MP2 — NEW GROUNDCOVER MASS PLANTING (MP2) CUMBERLAND PLAIN WOODLAND DIRECT SEEDING MIX
- P1a — CONCRETE PAVING TYPE 1a
- P1b — CONCRETE PAVING TYPE 1b PAINTED LINE MARKINGS AND GRAPHIC OVERLAY APPLIED TO PAVING. GRAPHIC OVERLAY AND ART WORK TO BE DEVELOPED BY THE CONNECTING WITH COUNTRY WORKING GROUP, COMMUNITY AND SCHOOL
- AC — ASPHALTIC CONCRETE PAVING TO CAR PARKING
- D1 — DECKING TYPE 1 ELEVATED PERMEABLE FIBER REINFORCED PLASTIC (FRP) / OPEN DECKING WITH HARD WOOD 150mm HIGH KERB RAIL
- ME — EDGE, METAL
- TE — EDGE, TIMBER
- CE — EDGE, HARDWOOD TIMBER
- SSZ — STRUCTURAL SOIL ZONE (SSZ) WITHIN THE TREE PROTECTION ZONES OF EXISTING AND PROPOSED TREES IN PAVING
- BAL — BALUSTRADE
- HR — HANDRAIL
- W1 — WALL TYPE 1 (W1), BRICK
- SS1 — SANDSTONE STEPPING STONE PLANK (SS1). INTERPRETATION TEXT BLASTED TO SHADED AND STEPPING STONES
- TP — TOTEM POLE
- B — BOLLARD
- BS — CONCRETE BLEACHER SEATING
- BS1 — BENCH SEATING TYPE 1. SANDSTONE LOG 1m LONG x 500mm WIDE x 500mm HIGH.
- BS2 — BENCH SEATING TYPE 2. SANDSTONE LOG 2m LONG x 500mm WIDE x 500mm HIGH. UTILIZED AS A RETAINED EDGE 300mm MAX HIGHT.
- TGSI — TACTILE GROUND SURFACE INDICATOR (TGSI)
- HC — HOSE-COCK (HC)
- QCV — QUICK COUPLING VALVE (QCV)
- TP — TREE PIT (TP)
- FP — FLAG POLE (FP)
- F1 — FENCE TYPE 1 (F1)
- F2 — FENCE TYPE 2 (F2)
- F3 — FENCE TYPE 2 (F3)
- F4 — FENCE TYPE 4 (F4) WALL, BRICK
- G# — GATE (G#)
- T16 — EXISTING TREE TO BE RETAINED. TREE NUMBER AS DOCUMENTED IN ARBORIST REPORT
- EXISTING TREE TO BE REMOVED
- NEW TREE PLANTING. *Genus species* (*Gs*)

NOTES

1. UNIVERSAL PRESCHOOL (UPS) ENTRY COURTYARD
   PROVIDE ELEMENTS INLINE WITH SINSW PRESCHOOL DESIGN BRIEF :
   - KID'S BIKE SCOOTERS & PRAM PARKING
   - KIDS ART
   - ART DISPLAY ZONE
   - PROTECTED SEATING AREA
   - FEATURE TREES
2. UNIVERSAL PRESCHOOL (UPS) OUTDOOR PLAY
   PROVIDE ELEMENTS INLINE WITH SINSW PRESCHOOL DESIGN BRIEF :
   - OPEN ACTIVE PLAY
   - SANDPIT
   - STORAGE SHED
   - WATER AND MUD PLAY
   - RAISED PLANTER GARDEN
3. FORMAL MAIN SCHOOL ENTRY
   ENTRY ZONE TO ADMINISTRATION WITH STEPS, ENTRY RAMP AND TERRACED PLANTING
4. EXISTING BOUNDARY TREE PLANTING
   - BUFFER TREE PLANTING TO STRENGTHEN THE SURROUNDING LANDSCAPE SITE CONTEXT
5. EXTERNAL ACTIVE PLAY ZONE AND GAMES COURTS. PROVIDE NEW GROUND SURFACE PAINTED TREATMENT TO CONCRETE PAVING TO:
   - EXPLORE AND REFLECT LOCAL STORIES IN THE FORM OF COLOUR AND GRAPHICS
6. EXTERNAL ELEVATED DECK PLAY ZONE
7. TERRACED PLANTING
   - BRICK TERRACE RETAINING WALLS TO NEGOTIATE LEVEL CHANGE.
   - CASCADING GROUNDCOVER AND LOW SHRUB PLANTING PROVIDE GREEN OUTLOOK AND SOFTEN BUILT WORK.

Key Plan:



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Rev	Amendment	By	Chk*	Date
3	SCHEMATIC DESIGN - FINAL ISSUE	GM	GM	28/02/25
2	ISSUE FOR REF	GM	GM	14/02/25
1	DRAFT SCHEMATIC	GM	GM	31/01/25

*Chk - Registered Architect

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Nela Marojević NSW ARB 11274

Project PA030518

Wilton Junction School

11 Greenbridge Dr, Wilton NSW 2571

Title

LANDSCAPE PLAN
15% CANOPY COVER

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Drawing Number WJPS-PTW-ZZ-GF-DR-L-000001
Revision 3

Phase
SCHEMATIC DESIGN

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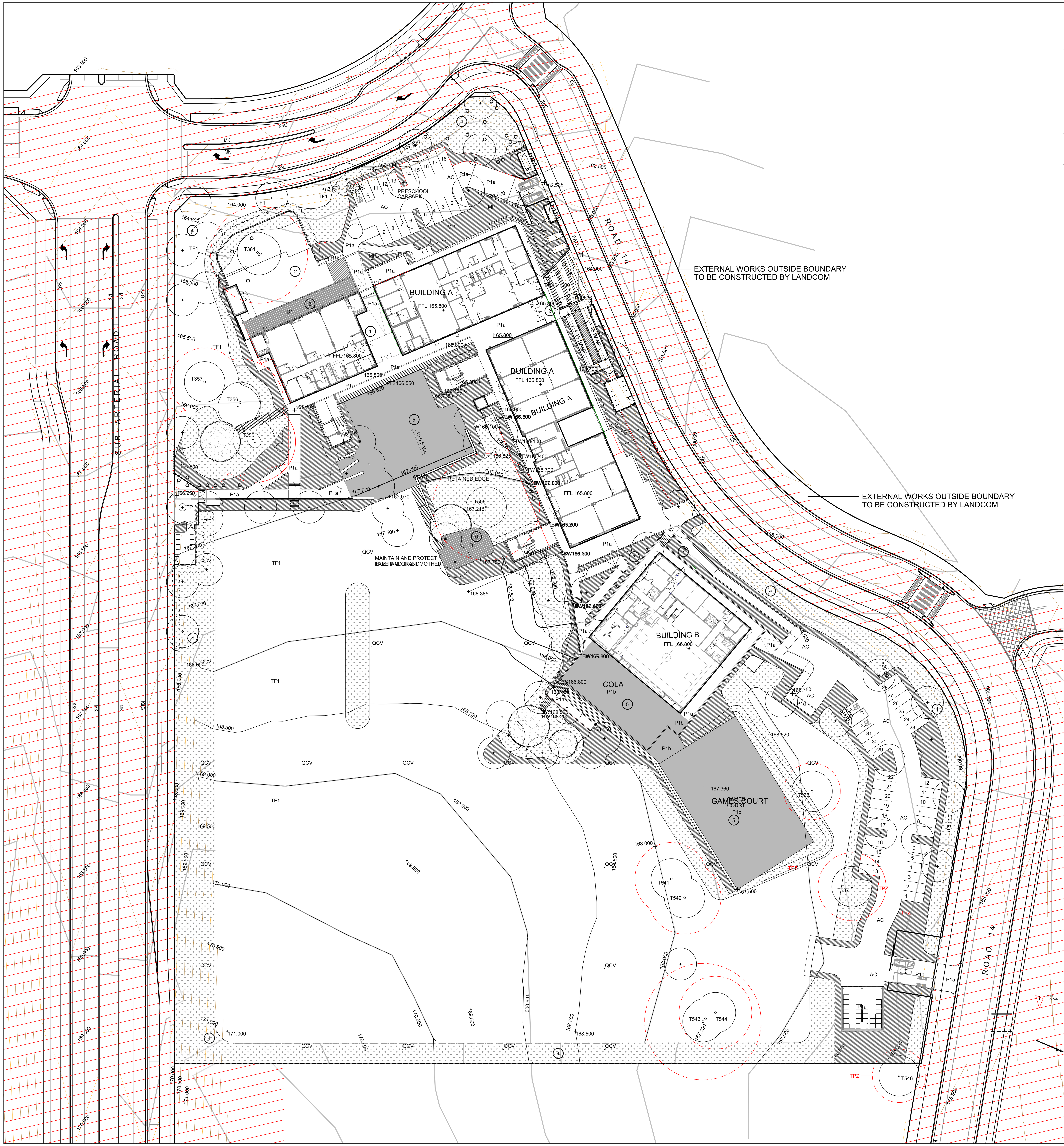


PLANTING SCHEDULE

SYM	Botanical Name	Common Name	Height x Width	Pot	Spacing	QTY
Tree Planting						
Fa	*Flindersia australis*	Crows ash	10m x 8m	100L	As Shown	10
Fp	*Fraxinus pennsylvancia 'Cimmzam'*	Cimmaron ash	10m x 8m	100L	As Shown	14
Fr	*Ficus rubiginosa*	Port Jackson fig	15m x 15m+	100L	As Shown	7
Lc	*Lophostemon confertus*	Brush box	12m x 6m	100L	As Shown	10
Mq	*Melaleuca quinquenervia*	Paperbark	8m x 4m	100L	As Shown	5
Sg	*Syncarpia glomulifera*	Turpentin tree	20m+ x 6m+	200L	As Shown	10
Tl	*Tristaniopsis laurina*	Water gum	20m+ x 6m+	200L	As Shown	8
Shrub Planting						
Ac	*Acmena smithii*	Lilly pilly	3m x 2m	25L	As Shown	140
Wf	*Westringia fruticosa*	Coastal rosemary	1.5-2m+ x 1m	25L	800mm	36

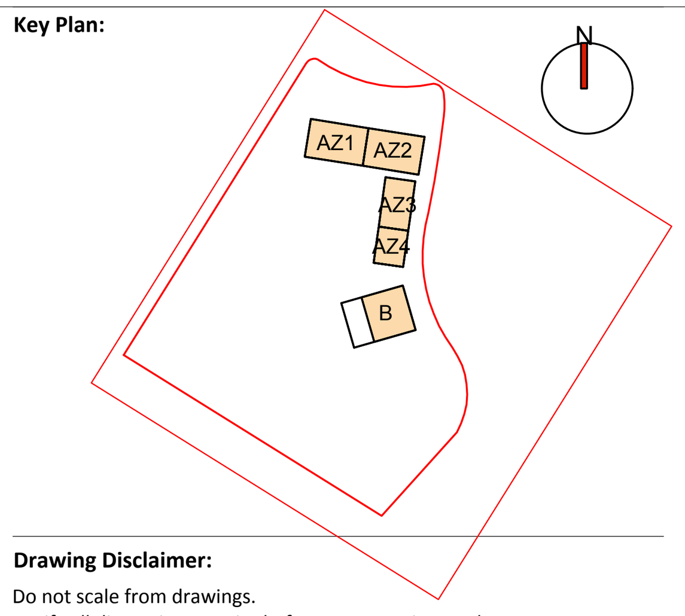
CUMBERLAND PLAIN WOODLAND PLANTING SCHEDULE

SYM	Botanical Name	Common Name	Height x Width	Pot	Spacing	QTY
Tree Planting						
Ec	*Eucalyptus crebra*	Ironbark	18m x 6m	25L	As Shown	25
Ee	*Eucalyptus eugenioides*	Thin-leaved stringybark	20m x 8m	25L	As Shown	10
Ef	*Eucalyptus fibrosa*	Red Ironbark	18m x 8m	25L	As Shown	10
Em	*Eucalyptus moluccana*	Grey box	20m x 8m	25L	As Shown	10
Et	*Eucalyptus tereticornis*	Forest red gum	7m x 4m	25L	As Shown	10

TREES RETAINED
Existing trees to be retained and protected include:

T355	*Eucalyptus moluccana*	Grey box
T356	*Eucalyptus moluccana*	Grey box
T357	*Eucalyptus moluccana*	Grey box
T361	*Eucalyptus moluccana*	Grey box
T506	*Eucalyptus moluccana*	Grey box
T537	*Eucalyptus moluccana*	Grey box
T538	*Eucalyptus moluccana*	Grey box
T541	*Eucalyptus tereticornis*	Forest red gum
T542	*Eucalyptus tereticornis*	Forest red gum
T543	*Eucalyptus tereticornis*	Forest red gum
T544	*Eucalyptus crebra*	Narrow-leaved iron bark
T546	*Eucalyptus tereticornis*	Forest red gum

Key Plan:



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Title
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Drawing Number WJPS-PTW-ZZ-GF-DR-L-000002
Revision 3

Phase
SCHEMATIC DESIGN

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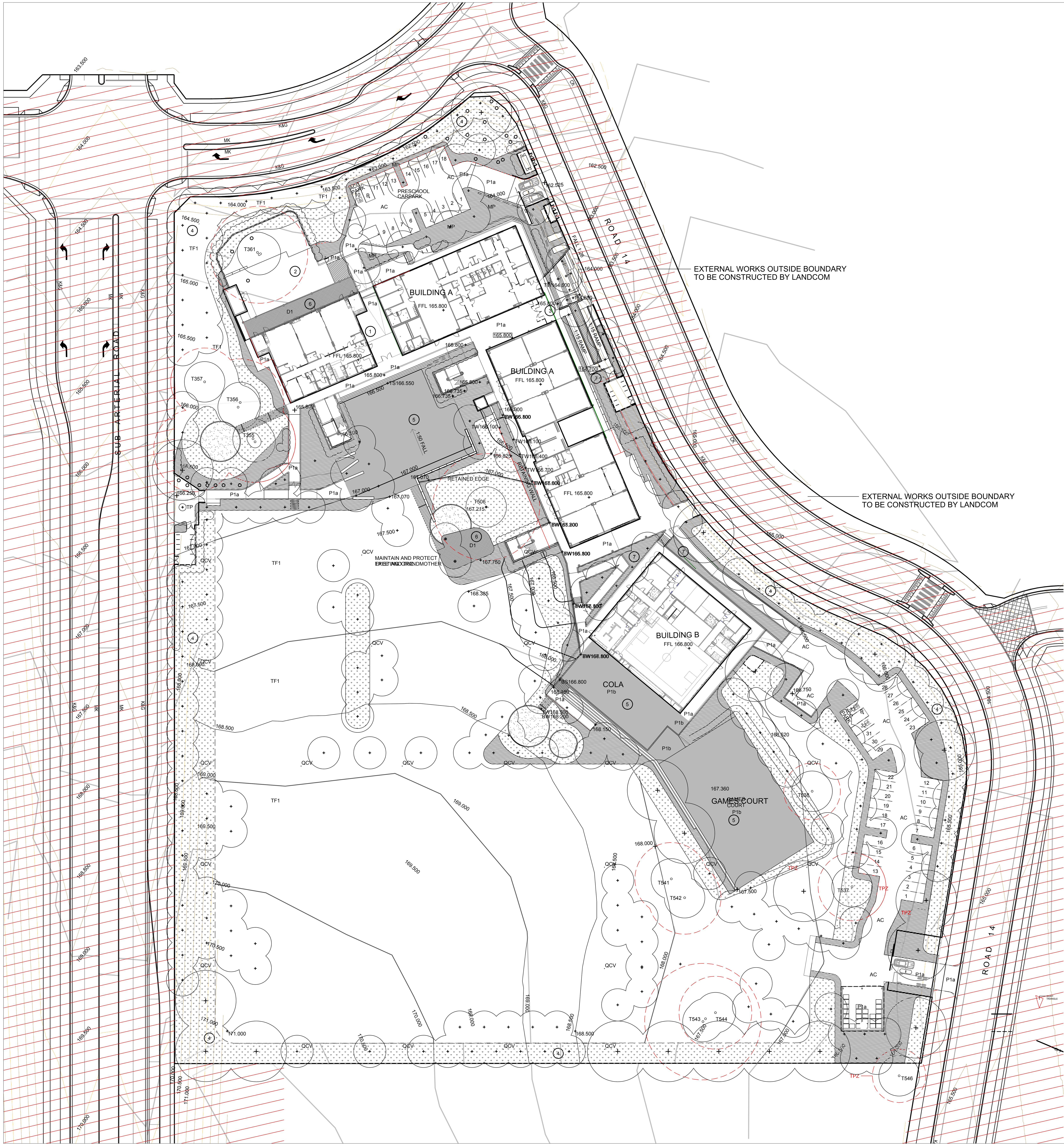

LEGEND

(hatched)	EXTERNAL WORKS OUTSIDE SITE BOUNDARY BY LANDCOM
(box)	BUILDING OUTLINE
TF1	NEW TURF TYPE 1 (TF1)
MP1	NEW GROUNDCOVER MASS PLANTING (MP1)
MP2	NEW GROUNDCOVER MASS PLANTING (MP2) CUMBERLAND PLAIN WOODLAND DIRECT SEEDING MIX
P1a	CONCRETE PAVING TYPE 1a
P1b	CONCRETE PAVING TYPE 1b PAINTED LINE MARKINGS AND GRAPHIC OVERLAY APPLIED TO PAVING. GRAPHIC OVERLAY AND ART WORK TO BE DEVELOPED BY THE CONNECTING WITH COUNTRY WORKING GROUP, COMMUNITY AND SCHOOL
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HC	HOSE-COCK (HC)
QCV	QUICK COUPLING VALVE (QCV)
TP	TREE PIT (TP)
FP	FLAG POLE (FP)
F1	FENCE TYPE 1 (F1)
F2	FENCE TYPE 2 (F2)
F3	FENCE TYPE 2 (F3)
F4	FENCE TYPE 4 (F4) WALL, BRICK
G#	GATE (G#)
T16	EXISTING TREE TO BE RETAINED. TREE NUMBER AS DOCUMENTED IN ARBORIST REPORT
×	EXISTING TREE TO BE REMOVED
Gs	NEW TREE PLANTING. *Genus species (Gs)*

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   PROVIDE ELEMENTS INLINE WITH SINSW PRESCHOOL DESIGN BRIEF :
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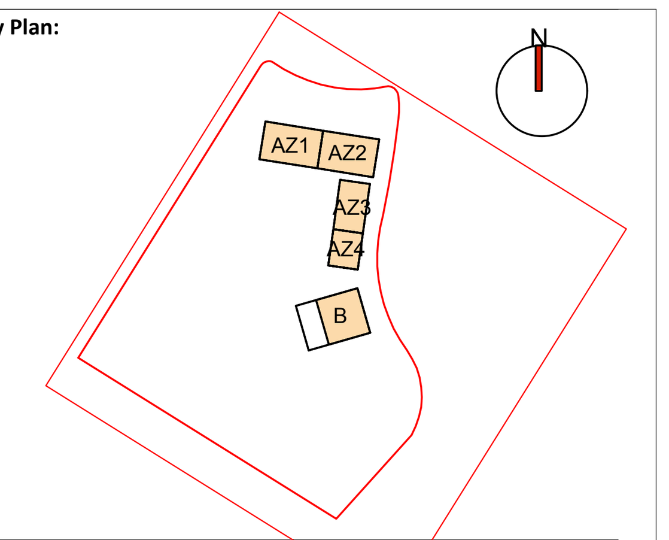

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1	SCHEMATIC DESIGN - FINAL ISSUE	GM	GM	28/02/25

*Chk - Registered Architect

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Project PA030518
Wilton Junction School
11 Greenbridge Dr, Wilton NSW 2571

Title
LANDSCAPE PLAN
40% CANOPY COVER

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Drawing Number WJPS-PTW-ZZ-GF-DR-L-000003
Revision 1

Phase
SCHEMATIC DESIGN

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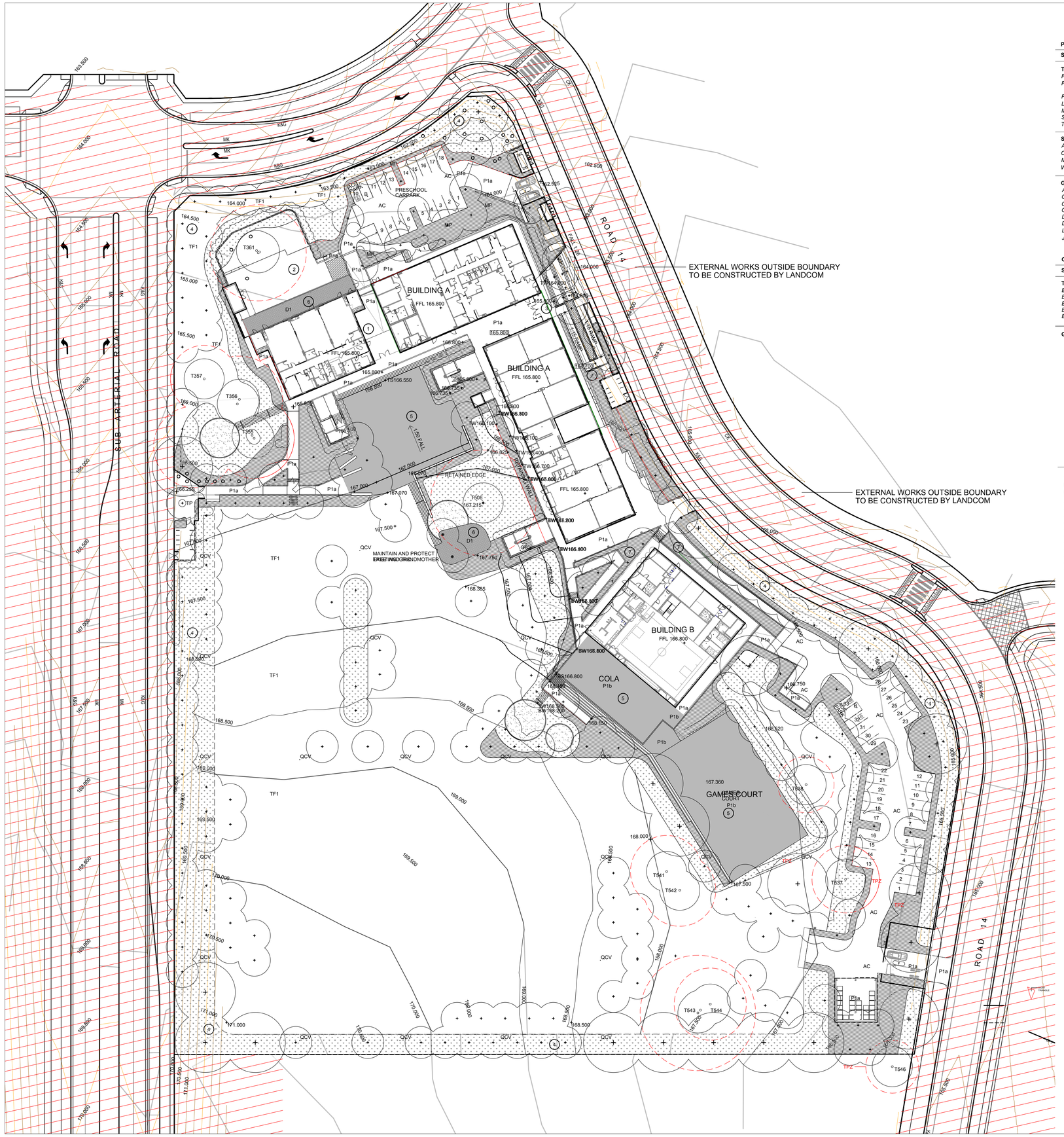

PLANTING SCHEDULE

SYM	Botanical Name	Common Name	Height x Width	Pot	Spacing	QTY
Tree Planting						
Fa	*Flindersia australis*	Crows ash	10m x 8m	100L	As Shown	20
Fp	*Fraxinus pennsylvancia 'Cimmzam'*	Cimmaron ash	10m x 8m	100L	As Shown	11
Fr	*Ficus rubiginosa*	Port Jackson fig	15m x 15m+	100L	As Shown	18
Lc	*Lophostemon confertus*	Brush box	12m x 6m	100L	As Shown	20
Mq	*Melaleuca quinquenervia*	Paperbark	8m x 4m	100L	As Shown	20
Sg	*Syncarpia glomulifera*	Turpentin tree	20m+ x 6m+	200L	As Shown	20
Tl	*Tristaniopsis laurina*	Water gum	20m+ x 6m+	200L	As Shown	20
Shrub Planting						
Ac	*Acmena smithii*	Lilly pilly	3m x 2m	25L	As Shown	140
Cs	*Callistemon salignus*	Willow bottlebrush	7m x 4m	25L	As Shown	5
Md	*Melaleuca decora*	White honeymyrtle	7m x 4m	25L	As Shown	5
Wf	*Westringia fruticosa*	Coastal rosemary	1.5-2m+ x 1m	25L	800mm	36
Groundcovers						
An	*Asplenium nidus*	Bird's nest fern	0.7m x 0.7m	150mm	600mm	20
Ci	*Cares inversa*	Knob sedge	0.7m x 0.7m	150mm	600mm	1000
Cp	*Crinum pedunculatum*	Swamp lily	0.7m x 0.7m	150mm	600mm	20
Cr	*Cycas revoluta*	Sago cycad	1.5m x 1m+	150mm	600mm	10
Dr	*Dianella caerulea*	Blue flax lily	0.7m x 0.7m	150mm	600mm	1450
Dr	*Dianella revoluta*	Blue berry lily	0.7m x 0.7m	150mm	600mm	1500
Ll	*Lomandra longifolia*	Mat rush	0.7m x 0.7m	150mm	600mm	2500
Ju	*Juncus usitatus*	Common rush	0.6m x 0.5m	150mm	600mm	1000

CUMBERLAND PLAIN WOODLAND PLANTING SCHEDULE

SYM	Botanical Name	Common Name	Height x Width	Pot	Spacing	QTY
Tree Planting						
Ec	*Eucalyptus crebra*	Ironbark	18m x 6m	25L	As Shown	20
Ee	*Eucalyptus eugenioides*	Thin-leaved stringybark	20m x 8m	25L	As Shown	20
Ef	*Eucalyptus fibrosa*	Red Ironbark	18m x 8m	25L	As Shown	20
Em	*Eucalyptus moluccana*	Grey box	20m x 8m	25L	As Shown	20
Et	*Eucalyptus tereticornis*	Forest red gum	7m x 4m	25L	As Shown	20

Groundcovers / understory (Cumberland Plain Woodland) MASS PLANTING TYPE 2 (MP2)**

Bulbine bulbosa	Mallee Burr-Daisy	0.5m+ x 0.5m	Direct seeded
Calotis lappulacea	Wild onion	0.7m+ x 0.7m	Direct seeded
Chloris truncata	Windmill grass	0.5m+ x 0.5m	Direct seeded
Convolvulus erubescens	Blushing Bindweed	0.3m+ x 2m	Direct seeded
Eriochloa pseudoacrotricha	Early Spring-grass	0.7m+ x 0.7m	Direct seeded
Lomandra longifolia	Mat rush	0.7m+ x 0.7m	Direct seeded
Lotus australis	Native Indigo	0.6m+ x 0.7m	Direct seeded
Microlaena stipoides	Weeping grass	1m+ x 0.7m	Direct seeded
Murdannia graminea	Grass Lily	0.6m+ x 0.7m	Direct seeded
Ranunculus lappaceus	Australian buttercup	0.7m+ x 0.7m	Direct seeded
Rumex brownii	Slender Dock	0.8m+ x 0.8m	Direct seeded
Themeda triandra	Kangaroo grass	0.7m+ x 0.7m	Direct seeded
Wahlenbergia spp.	~	0.4m+ x 0.4m	Direct seeded

TOTAL AREA 5,500m2 (0.55ha)

Seed rate approx. 50kg/ha

** *Developed native seed mix by Greening Australia - Cumberland Seed Production Area (SPA): https://greeningaustralia.org*

TREES RETAINED

Existing trees to be retained and protected include:

T355	*Eucalyptus moluccana*	Grey box
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T357	*Eucalyptus moluccana*	Grey box
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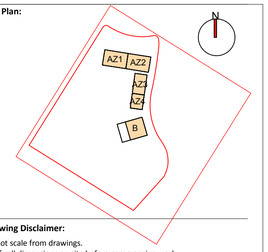

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LANDSCAPE PLANTING PLAN
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Drawing Number WJPS-PTW-ZZ-GF-DR-L-000004

Revision 1

Phase
SCHEMATIC DESIGN

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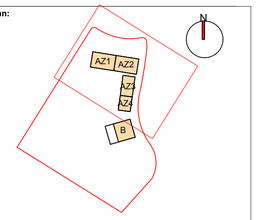

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ABN 23 000 454 624 — Simon Parsons NSW ARB 6098
Trading as PTW Architects — Diane Jones NSW ARB 4778
Nela Marojević NSW ARB 11274

Project PA030518

Wilton Junction School

11 Greenbridge Dr, Wilton NSW 2571

Title

DETAILED LANDSCAPE PLAN
15% CANOPY COVER
SHEET 1

0 2.5 5 10 15m
1:250@A1

Drawing Number WJPS-PTW-ZZ-GF-DR-L-000005
Revision 3

Phase
SCHEMATIC DESIGN

A1

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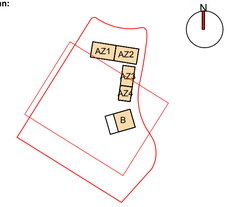
Autodesk Docs://Wilton Junction Public School/WJPS-PTW-800A-ZZ-M3-A-0001.rvt

Key Plan:



Drawing Disclaimer:

Do not scale from drawings.
Verify all dimensions on site before commencing work.
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Note:

PTW's responsibility for any external building element is strictly limited to that provided for by our relevant scope of Services. Others, including suitably qualified experts as may be required or as is appropriate, carry responsibility for any checking of or other work associated with any design, materials selection, construction or installation of any cladding, facade or external building element.

Rev	Amendment	By	Chk*	Date
3	SCHEMATIC DESIGN - FINAL ISSUE	GM	GM	28/02/25
2	ISSUE FOR REF	GM	GM	14/02/25
1	DRAFT SCHEMATIC	GM	GM	31/01/25

*Chk - Registered Architect

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Project PA030518

Wilton Junction School

11 Greenbridge Dr, Wilton NSW 2571

Title

DETAILED LANDSCAPE PLAN
15% CANOPY COVER
SHEET 2

0 2.5 5 10 15m
1:250@A1

Drawing Number WJPS-PTW-ZZ-GF-DR-L-000006

Revision 3

Phase
SCHEMATIC DESIGN

A1

Autodesk Docs://Wilton Junction Public School/WJPS-PTW-800A-ZZ-M3-A-0001.rvt

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NOTES

1. UNIVERSAL PRESCHOOL (UPS) ENTRY COURTYARD

   PROVIDE ELEMENTS INLINE WITH SINSW PRESCHOOL DESIGN BRIEF :
   - KID'S BIKE SCOOTERS & PRAM PARKING
   - KIDS ART
   - ART DISPLAY ZONE
   - PROTECTED SEATING AREA
   - FEATURE TREES

2. UNIVERSAL PRESCHOOL (UPS) OUTDOOR PLAY

   PROVIDE ELEMENTS INLINE WITH SINSW PRESCHOOL DESIGN BRIEF :
   - OPEN ACTIVE PLAY
   - SANDPIT
   - STORAGE SHED
   - WATER AND MUD PLAY
   - RAISED PLANTER GARDEN

3. FORMAL MAIN SCHOOL ENTRY

   ENTRY ZONE TO ADMINISTRATION WITH STEPS, ENTRY RAMP AND TERRACED PLANTING

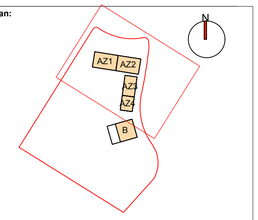
4. EXISTING BOUNDARY TREE PLANTING
   - BUFFER TREE PLANTING TO STRENGTHEN THE SURROUNDING LANDSCAPE SITE CONTEXT

5. EXTERNAL ACTIVE PLAY ZONE AND GAMES COURTS. PROVIDE NEW GROUND SURFACE PAINTED TREATMENT TO CONCRETE PAVING TO:
   - EXPLORE AND REFLECT LOCAL STORIES IN THE FORM OF COLOUR AND GRAPHICS

6. EXTERNAL ELEVATED DECK PLAY ZONE

7. TERRACED PLANTING
   - BRICK TERRACE RETAINING WALLS TO NEGOTIATE LEVEL CHANGE.
   - CASCADING GROUNDCOVER AND LOW SHRUB PLANTING PROVIDE GREEN OUTLOOK AND SOFTEN BUILT WORK.

Key Plan:



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Rev	Amendment	By	Chk*	Date
1	SCHEMATIC DESIGN - FINAL ISSUE	GM	GM	28/02/25

*Chk - Registered Architect

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Title

DETAILED LANDSCAPE PLAN
40% CANOPY COVER
SHEET 1

0 2.5 5 10 15m
1:250@A1

Drawing Number WJPS-PTW-ZZ-GF-DR-L-000007 **Revision** 1

Phase
SCHEMATIC DESIGN

Autodesk Docs://Wilton Junction Public School/WJPS-PTW-800A-ZZ-M3-A-0001.rvt

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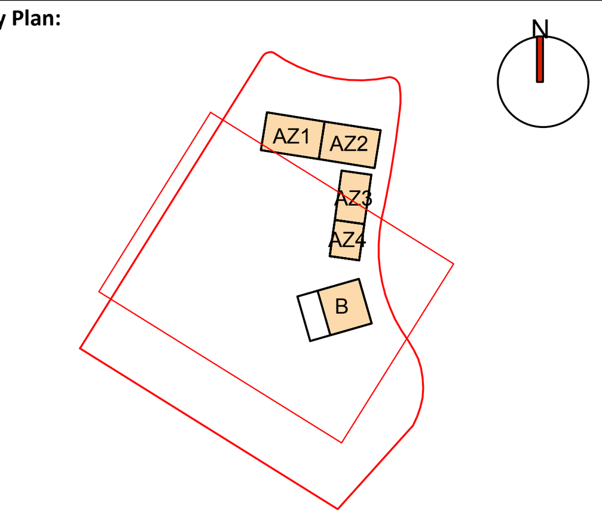
A1

Key Plan:



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1	SCHEMATIC DESIGN - FINAL ISSUE	GM	GM	28/02/25
Rev	Amendment	By	Chk*	Date

*Chk - Registered Architect

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Project PA030518

Wilton Junction School

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Title

DETAILED LANDSCAPE PLAN
40% CANOPY COVER
SHEET 2

0 2.5 5 10 15m
1:250@A1

Drawing Number WJPS-PTW-ZZ-GF-DR-L-000008

Revision 1

Phase

SCHEMATIC DESIGN

Appendix B - Civil Plans

WILTON JUNCTION PUBLIC SCHOOL

LGA: WOLLONDILLY SHIRE COUNCIL

ISSUED FOR DEVELOPMENT APPROVAL

SOURCE: NEARMAP

LOCALITY PLAN
SCALE 1:5000

DRAWING INDEX	
DRAWING No.	DESCRIPTION
00-XX-DR-C-0000	COVER SHEET, LOCALITY PLAN AND DRAWING INDEX
00-XX-DR-C-0001	GENERAL NOTES
00-XX-DR-C-0010	GENERAL ARRANGEMENT PLAN
00-XX-DR-C-0100	EARTHWORKS PLAN
00-XX-DR-C-0140	EARTHWORKS SECTIONS SHEET 1
00-XX-DR-C-0141	EARTHWORKS SECTIONS SHEET 2
00-XX-DR-C-0200	SITEWORKS AND DRAINAGE PLAN SHEET 1 OF 2
00-XX-DR-C-0201	SITEWORKS AND DRAINAGE PLAN SHEET 2 OF 2
00-XX-DR-C-0280	TYPICAL DETAILS BLOCKWORK RETAINING WALLS SHEET 1 OF 2
00-XX-DR-C-0281	TYPICAL DETAILS BLOCKWORK RETAINING WALLS SHEET 2 OF 2
00-XX-DR-C-0282	TYPICAL DETAILS
00-XX-DR-C-0300	DRAINAGE CATCHMENT PLAN
00-XX-DR-C-0340	DRAINAGE DETAILS
00-XX-DR-C-0350	OSD PLAN
00-XX-DR-C-0355	OSD SECTIONS AND DETAILS
00-XX-DR-C-0400	LINEMARKING AND SIGN PLAN
00-XX-DR-C-0500	PAVEMENT PLAN
00-XX-DR-C-0520	PAVEMENT DETAILS
00-XX-DR-C-0700	EROSION AND SEDIMENT CONTROL PLAN
00-XX-DR-C-0710	EROSION AND SEDIMENT CONTROL DETAILS

BEFORE YOU DIG www.byda.com.au

0 50 100 150 200 250 300m
SCALE 1:5000 AT A1 SIZE

REV	DATE	DESCRIPTION	RVD
C01	28.02.2025	SCHEMATIC DESIGN SUBMISSION	SH
P02	21.02.2025	PRELIMINARY	SH
P01	31.01.2025	PRELIMINARY	SH

REVISIONS

CLIENT: NSW GOVERNMENT

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E / info@bgeeng.com
bgeeng.com—

PROJECT: WILTON JUNCTION PUBLIC SCHOOL

STATUS: SCHEMATIC DESIGN SUBMISSION
NOT TO BE USED FOR CONSTRUCTION

TITLE: COVER SHEET, LOCALITY PLAN AND DRAWING INDEX

DRAWN	DESIGNED	CHECKED	APPROVED
JC	SM	SH	

DATUM	GRID	SCALE	AT	DRAWING No.	REV.
AHD	GDA2020 MGA-56	1:5000	A1	WJPS-BGEC-00-XX-DR-C-0000	C01

P:\BGE\SYD\S251306\100 DRAW\100.2 CIVIL\AUTOCAD\WJPS-BGEC-00-XX-DR-C-0000.DWG
6/03/2025 11:35:43 AM

GENERAL

1. TECHNICAL SPECIFICATIONS OR SPECIFIC INSTRUCTIONS ON DRAWINGS TAKE PRECEDENCE OVER THESE NOTES.
2. DO NOT DEPART FROM THE DESIGN UNLESS AUTHORISED IN WRITING BY THE DESIGN ENGINEER
3. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL AND OTHER CONSULTANTS' DRAWINGS AND SPECIFICATIONS AND WITH ANY OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT. ANY DISCREPANCY SHALL BE REFERRED TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK. CONSTRUCTION FROM THESE DRAWINGS, AND THEIR ASSOCIATED CONSULTANTS' DRAWINGS IS NOT TO COMMENCE UNTIL APPROVED BY THE RELEVANT AUTHORITIES.
4. REFER TO ALL NOTES ON THESE DRAWINGS AND PREVIOUSLY MENTIONED DOCUMENTATION BEFORE BEGINNING CIVIL WORKS.
5. ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE RELEVANT AND CURRENT SPECIFIED STANDARDS AND WITH THE BY-LAWS AND ORDINANCES OF THE RELEVANT APPROVAL AUTHORITIES EXCEPT WHERE VARIED BY THE PROJECT SPECIFICATION AND/OR DRAWINGS.
6. THE RELEVANT AUTHORITIES OCCUPATIONAL HEALTH AND SAFETY PRACTICES MUST BE COMPLIED WITH.
7. ALL DIMENSIONS AND LEVELS SHOWN ON THE DRAWINGS SHALL BE VERIFIED BY THE CONTRACTOR ON SITE. CIVIL DRAWINGS SHALL NOT BE SCALED FOR DIMENSIONS. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS AND SETOUT. THE ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
8. UNLESS NOTED OTHERWISE, ALL DIMENSIONS ARE IN METRES (m) AND ALL LEVELS ARE IN METRES (m) TO AUSTRALIAN HEIGHT DATUM (AHD).
9. GRADES TO PAVEMENTS TO BE AS IMPLIED BY RL'S ON CIVIL GRADING PLAN DRAWINGS. GRADE EVENLY BETWEEN NOMINATED RL'S. AREAS EXHIBITING PONDING GREATER THAN 5mm DEPTH WILL NOT BE ACCEPTED/ UNLESS IN A DESIGNATED SAG POINT.
10. IF THERE IS DOUBT REGARDING THE CIVIL DESIGN, CONTACT THE ENGINEER FOR CLARIFICATION.
11. ALL ABBREVIATIONS ARE AS FOLLOWS:

EGL	EXISTING GROUND LEVEL
FFL	FINISHED FLOOR LEVEL
RL	REDUCED LEVEL
E.	EASTING COORDINATE
N.	NORTHING COORDINATE
AHD	AUSTRALIAN HEIGHT DATUM
U.N.O.	UNLESS NOTED OTHERWISE
uPVC	UNPLASTICISED POLYVINYL CHLORIDE
RCP	REINFORCED CONCRETE PIPE
VCP	VITRIFIED CLAY PIPE
FRC	FIBRE REINFORCED COMPOSITE
F#.##	FINISHED SURFACE LEVEL
K&G	KERB AND GUTTER
KO	KERB ONLY
NFK	NOMINAL FACE OF KERB
FK	FLUSH KERB
TOK	TOP OF KERB
BOK	BACK OF KERB
DD	DISH DRAIN
MK	MOUNTABLE KERB
MIK	MOUNTABLE INTEGRAL KERB
IK	INTEGRAL KERB
IL	INVERT LEVEL
OL	OBVERT LEVEL
GD	GRATED DRAIN
TWL	TOP WATER LEVEL
GALV.	GALVANISED
TE	THICKENED EDGE
FP	FLUSHING POINT
DP	DOWN PIPE
RW#	RETAINING WALL
IJ	ISOLATION JOINT
DEJ	DOWELLED EXPANSION JOINT
SJ	SAWN JOINT
KJ	KEYED JOINT
WPJ	TROWELED WEAKENED PLANE JOINT
EJ	EXPANSION JOINT
TW	TOP OF WALL LEVEL
BW	BOTTOM OF WALL LEVEL

SURVEY

1. THE EXISTING SITE CONDITIONS SHOWN ON THE FOLLOWING DRAWINGS HAVE BEEN DERIVED FROM SURVEY INFORMATION SUPPLIED FROM:
   PREMISE
   P.O. BOX 473
   NARELLAN, NSW 2567
   www.premise.com.au
   02 4632 6500
2. THE FOLLOWING SURVEY INFORMATION HAS BEEN TAKEN DIRECTLY FROM ORIGINAL SURVEY DOCUMENTS.

ORIGIN OF LEVELS	GDA2020 MGA56
DATUM	AHD
ADOPTED VALUE	R.L 173.77
SURVEY DATE	29/03/22
REFERENCE	322017

3. THE INFORMATION IS SHOWN TO PROVIDE A BASIS FOR DESIGN. BG&E PTY LTD DOES NOT GUARANTEE THE ACCURACY OR COMPLETENESS OF THE SURVEY BASE OR ITS SUITABILITY AS A BASIS FOR CONSTRUCTION DRAWINGS.
4. SHOULD DISCREPANCIES BE ENCOUNTERED DURING CONSTRUCTION BETWEEN THE SURVEY DATA AND ACTUAL FIELD DATA, CONTACT BG&E PTY LTD.
5. THE CONTRACTOR SHALL ARRANGE ALL SURVEY SETOUT TO BE CARRIED OUT BY A REGISTERED SURVEYOR.
6. BENCHMARK, SURVEY PEGS, LEVEL PEGS OR SUPPLEMENTARY REFERENCE MARKS SHALL NOT BE ADJUSTED OR MOVED WITHOUT WRITTEN APPROVAL FROM THE SUPERINTENDENT. THE CONTRACTOR SHALL TRANSFER ANY PEGS AFFECTED BY THE PROPOSED WORKS TO SIDE POSITIONS CLEAR OF OPERATIONS AND SHALL NOTE THE EXTENT OF THE MOVEMENT IN DISTANCE AND LEVEL.

EXISTING SERVICES AND FEATURES

1. THE CONTRACTOR MUST CONFIRM THE EXACT LOCATION AND EXTENT OF EXISTING SERVICES PRIOR TO CONSTRUCTION AND NOTIFY ANY CONFLICT WITH THE DRAWINGS IMMEDIATELY TO THE ENGINEER/SUPERINTENDENT.
2. EXISTING SERVICES UNLESS SHOWN ON SURVEY PLAN HAVE BEEN PLOTTED FROM SERVICES SEARCH PLANS AND AS SUCH THEIR ACCURACY CANNOT BE GUARANTEED.
3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLETE A 'DIAL BEFORE YOU DIG' SEARCH AND TO ESTABLISH THE LOCATION AND LEVEL OF ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF ANY WORK. ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER/SUPERINTENDENT. CLEARANCES SHALL BE OBTAINED FROM THE RELEVANT SERVICE AUTHORITY. SEARCH RESULTS ARE TO BE KEPT ON SITE AT ALL TIMES.
4. THE CONTRACTOR HAS A DUTY OF CARE WHEN EXCAVATING NEAR SERVICES. DO NOT ASSUME DEPTHS OR ALIGNMENTS OF CABLES OR PLANT AS THESE MAY VARY SIGNIFICANTLY. THE CONTRACTOR MUST ACCEPT ALL RESPONSIBILITY TO DAMAGES TO EXISTING SERVICES AS SERVICE AUTHORITIES MAY SEEK COMPENSATION FOR DAMAGES CAUSED TO THEIR PROPERTY AND SUBSEQUENT LOSSES CAUSED.
5. THE CONTRACTOR SHALL ALLOW FOR THE CAPPING OFF, EXCAVATION AND REMOVAL OR RELOCATION (IF REQUIRED) TO RELEVANT AUTHORITIES GUIDELINES OF ALL EXISTING SERVICES IN AREAS AFFECTED BY WORKS WITHIN THE CONTRACT AREA OR AS SHOWN ON THE DRAWINGS UNLESS DIRECTED OTHERWISE BY THE ENGINEER/SUPERINTENDENT.
6. INTERRUPTION TO SUPPLY OF EXISTING SERVICES SHALL BE DONE SO AS NOT TO CAUSE ANY INCONVENIENCE TO SURROUNDING ALLOTMENTS. CONTRACTOR TO GAIN APPROVAL FROM THE RELEVANT AUTHORITIES FOR TIME OF INTERRUPTION.
7. THE CONTRACTOR SHALL CONSTRUCT TEMPORARY SERVICES TO MAINTAIN SUPPLY TO EXISTING BUILDINGS REMAINING IN OPERATION DURING WORKS TO THE SATISFACTION AND APPROVAL OF ANY RELEVANT AUTHORITIES. ONCE DIVERSION IS COMPLETE AND COMMISSIONED, THE CONTRACTOR SHALL REMOVE ALL SUCH TEMPORARY SERVICES AND MAKE GOOD TO THE SATISFACTION OF THE RELEVANT AUTHORITY/SUPERINTENDENT.
8. EXISTING SERVICES, BUILDINGS, EXTERNAL STRUCTURES AND TREES SHOWN ON THESE DRAWINGS ARE EXISTING FEATURES PRIOR TO ANY DEMOLITION WORKS.
9. ALL BRANCH GAS AND WATER SERVICES UNDER DRIVEWAYS, BRICK PAVING AND CONSTRUCTION TRAFFIC MANEUVERING AREAS SHALL BE PROTECTED TO RELEVANT AUTHORITIES GUIDELINES.
10. ALL EXISTING SERVICE UTILITIES COVERS AND GRATES ARE TO BE ADJUSTED (TO RELEVANT AUTHORITY GUIDELINES) TO SUIT NEW FINISHED SURFACE LEVELS WHERE APPLICABLE.
11. IF EXISTING SERVICE UTILITY COVERS AND GRATES OR SURROUNDING SURFACE LEVELS ARE TO BE LOWERED, THE CONTRACTOR IS TO MAKE CERTAIN THAT MINIMUM COVERS (TO RELEVANT SERVICE AUTHORITY GUIDELINES) TO SERVICES ARE MAINTAINED. IF MINIMUM COVERS AREN'T MAINTAINED THE CONTRACTOR IS TO LOWER OR PROTECT SERVICES TO THE SATISFACTION OF THE RELEVANT SERVICE AUTHORITY/SUPERINTENDENT.

EROSION AND SEDIMENT CONTROL

1. ALL SEDIMENT CONTROL DEVICES ARE TO BE CONSTRUCTED, PLACED AND MAINTAINED IN ACCORDANCE WITH RELEVANT AUTHORITY GUIDELINES AND ANY DETAILS SHOWN ON THESE DRAWINGS.
2. ALL PERIMETER AND SILTATION CONTROL MEASURES ARE TO BE PLACED PRIOR TO, OR AS THE FIRST STEP IN EARTHWORKS AND/OR CLEARING.
3. THE EROSION AND SEDIMENT CONTROL PLAN MAY REQUIRE FUTURE ADJUSTMENT TO REFLECT CONSTRUCTION STAGING. IT IS THE CONTRACTORS RESPONSIBILITY TO PREPARE THEIR OWN EROSION AND SEDIMENT CONTROL PLAN WHICH SUITS THE DESIGNED CONSTRUCTION STAGING.
4. FILTRATION BUFFER ZONES ARE TO BE FENCED OFF AND ACCESS PROHIBITED TO ALL PLANT AND MACHINERY.
5. ALL SEDIMENT TRAPPING STRUCTURES AND DEVICES ARE TO BE INSPECTED AFTER STORMS FOR STRUCTURAL DAMAGE OR CLOGGING. DAMAGED SEDIMENT TRAPPING STRUCTURES ARE TO BE REPAIRED AND ANY TRAPPED MATERIAL IS TO BE REMOVED TO A SAFE LOCATION.
6. ALL TOPSOIL IS TO BE STOCKPILED ON SITE (AWAY FROM TREES AND DRAINAGE LINES) IN ACCORDANCE WITH DETAILS PROVIDED AND WITH RELEVANT AUTHORITY GUIDELINES. MEASURES SHALL BE APPLIED TO PREVENT EROSION OF THE STOCKPILES.
7. ALL EARTHWORK AREAS SHALL BE ROLLED EACH EVENING TO SEAL THE EARTHWORKS. DUST SUPPRESSION SHALL BE CARRIED OUT IN ACCORDANCE WITH RELEVANT AUTHORITIES GUIDELINES.
8. UPON COMPLETION OF ALL EARTHWORKS OR AS DIRECTED BY RELEVANT AUTHORITY, SOIL CONSERVATION TREATMENTS SHALL BE APPLIED SO AS TO RENDER AREAS THAT HAVE BEEN DISTURBED, EROSION PROOF WITHIN 14 DAYS.
9. ALL CUT AND FILL SLOPES ARE TO BE SEEDED AND STRAW MULCHED WITHIN 14 DAYS OF COMPLETION OF FORMATION U.N.O. BY LANDSCAPE ARCHITECTS.
10. EROSION AND SILT PROTECTION MEASURES ARE TO BE MAINTAINED AT ALL TIMES.
11. ALL CONSTRUCTION VEHICLES SHALL ENTER AND EXIT THE SITE VIA THE TEMPORARY CONSTRUCTION ENTRY/EXIT AS PER DETAILS PROVIDED OR IN ACCORDANCE WITH AUTHORITY GUIDELINES.
12. ALL VEHICLES LEAVING THE SITE SHALL BE CLEANED AND INSPECTED BEFORE LEAVING SITE TO LIMIT SEDIMENT TRACKING TO ROADWAYS.

SUBGRADE COMPACTION

1. THE EXPOSED SUBGRADE (I.E. THE LOWER COURSE OF PAVEMENT BELOW THE SUB-BASE) AFTER STRIPPING AND/OR EXCAVATION SHALL BE PROOF ROLLED USING NOT FEWER THAN 5 PASSES WITH A 10 TONNE DEAD WEIGHT STEEL SMOOTH-DRUM ROLLER UNDER THE SUPERVISION OF AN EXPERIENCED GEOTECHNICAL ENGINEER. ANY AREAS EXHIBITING EXCESSIVE DEFLECTION/MOVEMENT UNDER ROLLER SHALL BE REMOVED TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER TO A MINIMUM DEPTH OF 500mm AND THEN BACKFILLED WITH APPROVED ENGINEERED FILL TO MEET THE DESIGN SUBGRADE LEVEL.
2. ENGINEERED FILL TO TO BE PLACED IN LAYERS NOT EXCEEDING 250mm LOOSE THICKNESS AND COMPACTED TO 98% OF STANDARD MAXIMUM DRY DENSITY (SMDD) AND TO WITHIN 2% OF STANDARD OPTIMUM MOISTURE CONTENT (SOMC) IN ACCORDANCE WITH AS 1289 5.1.1. APPROVED BACKFILL MATERIAL MAY BE CRUSHED ROCK OR SANDY LOAM WITH A PLASTICITY INDEX LESS THAN 15%.
3. TESTING OF THE SUBGRADE SHALL BE CARRIED OUT BY AN APPROVED N.A.T.A. REGISTERED LABORATORY.
4. ALL FILL MATERIAL SHALL BE FROM A SOURCE APPROVED BY THE SUPERINTENDENT AND SHALL COMPLY WITH THE FOLLOWING.
   - FREE FROM ORGANIC AND PERISHABLE MATTER
   - MAXIMUM PARTICLE SIZE = 75mm
   - MAXIMUM PLASTICITY INDEX = 15%

SUB-BASE COURSE COMPACTION

1. PAVEMENT "SUB-BASE" (I.E THE INTERMEDIATE OR LOWER COURSE OF THE PAVEMENT BELOW THE BASE) SHALL BE CONSTRUCTED FROM MATERIAL AS SPECIFIED ON DRAWINGS AND COMPACTED TO 98% OF THE STANDARD MAXIMUM DRY DENSITY (SMDD) AND WITHIN 2% OF STANDARD OPTIMUM MOISTURE CONTENT (SOMC) IN ACCORDANCE WITH AS 1289 5.1.1.
2. ALL SUB-BASE MATERIAL SHALL BE HARD, DURABLE AND THE MATERIALS SHALL BE FREE OF CLAY LUMPS, ORGANIC MATTER AND OBJECTIONABLE QUANTITIES OF DELETERIOUS SUBSTANCES.
3. ALL MATERIAL REQUIREMENTS APPLY BOTH PRIOR TO AND AFTER PLACEMENT OF THE PAVEMENT.

BASE COURSE COMPACTION

1. PAVEMENT "BASE" (I.E THE HIGHEST COURSE OF THE PAVEMENT BELOW THE SURFACING) SHALL BE CONSTRUCTED FROM MATERIAL AS SPECIFIED ON DRAWINGS AND COMPACTED TO 98% OF THE STANDARD MAXIMUM DRY DENSITY (SMDD) AND WITHIN 2% OF STANDARD OPTIMUM MOISTURE CONTENT (SOMC) IN ACCORDANCE WITH AS 1289 5.1.1 (EXCEPT CONCRETE PAVEMENT, WHERE THE CONCRETE IS THE BASE).
2. ALL BASE MATERIAL SHALL BE HARD, DURABLE AND THE MATERIALS SHALL BE FREE OF CLAY LUMPS, ORGANIC MATTER AND OBJECTIONABLE QUANTITIES OF DELETERIOUS SUBSTANCES.
3. ALL MATERIAL REQUIREMENTS APPLY BOTH PRIOR TO AND AFTER PLACEMENT OF THE PAVEMENT

KERBING NOTES

INCLUDES ALL KERBS, GUTTERS, DISH DRAINS, CROSSINGS AND EDGES.

1. WOLLONDILLY SHIRE COUNCIL'S STANDARD DRAWINGS TAKES PRECEDENCE OVER THESE NOTES.
2. ALL KERBS, GUTTERS AND CROSSINGS TO BE CONSTRUCTED ON MINIMUM 150mm CONSOLIDATED FINE CRUSHED ROCK MATERIAL COMPACTED TO A MINIMUM 98% MODIFIED MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289 5.2.1.
3. ROAD BASE MATERIAL IS TO BE DGB20 OR SIMILAR AND COMPACTED TO 100% STANDARD MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289.5.1.1-2003.
4. ROAD BASE MATERIAL 150mm THICK TO BE PLACED BENEATH KERB & GUTTER AND 300mm BEYOND THE EXTERNAL EDGES OF KERB & GUTTERS, APRONS AND CROSSINGS.
5. ALL DISTURBED AREAS TO BE TOPSOILED WITH 75mm OF APPROVED LOAM AND TURFED AS SOON AS PRACTICABLE TO ENCOURAGE REVEGETATION AND MINIMISE SOIL EROSION FROM SITE.
6. CONCRETE FINISH - ALL EDGES TO BE TOOL FINISHED WITH 12mm RADIUS, 50mm WIDE EDGING TOOL. GUTTER AND LAYBACK SHALL BE FINISHED WITH A STEEL TROWEL.
7. APPROVED FULL DEPTH EXPANSION JOINTS (10mm) TO BE PROVIDED AS FOLLOWS:
   - BETWEEN NEW AND EXISTING WORKS.
   - BETWEEN LAYBACK WINGS AND KERB
   - EITHER SIDE OF ANY LINTELS
   - AT EVERY 6m INTERVALS ALONG CONTINUOUSE LENGTHS (PROVIDE DUMMY JOINT AT EVERY 3m INTERVALS UNLESS INSTRUCTED OTHERWISE BY SUPERINTENDENT) .

GENERAL PAVEMENT

1. TECHNICAL SPECIFICATIONS CONTAINED WITHIN THE GEOTECHNICAL REPORT TAKE PRECEDENCE OVER THESE NOTES.
2. PRIOR TO DELIVERY OF ANY MATERIAL TO THE SITE, THE SOURCE OF ALL MATERIALS AND ANY RELEVANT CERTIFICATES STATING THAT THE MATERIAL SATISFIES THE SPECIFIED REQUIREMENTS SHALL BE PROVIDED TO THE SUPERINTENDENT FOR APPROVAL.
3. TESTING OF PAVEMENT MATERIALS WILL NORMALLY BE PERFORMED ON SAMPLES TAKEN AT THE SOURCE SITE PRIOR TO DELIVERY TO THE SITE AND IN THEIR FINAL CONDITIONS AFTER PLACEMENT AND COMPACTION. HOWEVER, THE PROPERTIES SPECIFIED AND FINAL ACCEPTANCE ARE APPLICABLE TO THE MATERIALS IN THEIR FINAL CONDITION IN THE PAVEMENT.
4. FINAL ACCEPTANCE WILL BE CONDITIONAL ON NO SIGNIFICANT CHANGE IN PROPERTIES DUE TO SEGREGATION OR CONTAMINATION DURING SUBSEQUENT PAVEMENT WORKS.

ASPHALT SURFACING NOTES

1. ASPHALT (HOT MIXED) TO AS2150.
2. BITUMEN EMULSION: TO AS1160.
3. BEFORE SURFACING ENSURE THAT THE BASE COURSE SURFACE IS FIRM, FREE OF SURFACE WATER, OILS, GREASE, RETARDERS, LOOSE MATERIAL AND DUST. APPLY TACK COAT IMMEDIATELY BEFORE PLACING ASPHALT.
4. TACK COAT: BITUMINOUS EMULSION SPRAY TO THE RECOMMENDATION OF AS2150.
5. ASPHALT: MIXING LAYING AND COMPACTION TO THE RECOMMENDATION OF AS2150.
6. MIXES:
   - AC10 - 10MM NOMINAL MAXIMUM AGGREGATE SIZE
   - AC7 - 7MM NOMINAL MAXIMUM AGGREGATE SIZE
   - AC5 - 5MM NOMINAL MAXIMUM AGGREGATE SIZE
7. BITUMEN BINDER CLASS: 170.
8. SURFACE FINISH: DENSE, SMOOTH, FREE OF ROLLER MARKS AND LOOSE MATERIAL.
9. COMPACTION:
   - WHILST THE MIX TEMPERATURE IS ABOVE 140°C. SITE DENSITY (MINIMUM): 95% OF THE 50 BELOW MARSHALL DENSITY OF THE LABORATORY COMPACTED MIX.
10. JOINTS:
    - THE NUMBER OF JOINTS, BOTH LONGITUDINAL AND TRANSVERSE, SHALL BE KEPT TO A MINIMUM.
    - THE DENSITY AND SURFACE FINISH AT JOINTS SHALL BE SIMILAR TO THOSE OF THE REMAINDER OF THE LAYER.
    - FORM JOINTS AND STAGGER 300MM MINIMUM IN SUCCESSIVE LAYERS.
11. FINISHED PAVEMENT PROPERTIES:
    - FINISHED SURFACES SHALL BE SMOOTH, DENSE AND TRUE TO SHAPE AND SHALL NOT VARY MORE THAN 10MM FROM SPECIFIED PLAN LEVEL AT ANY POINT AND SHALL NOT DEVIATE FROM THE BOTTOM OF A 3M STRAIGHT EDGE LAID IN ANY DIRECTION BY MORE THAN 5MM.

STORM WATER DRAINAGE

1. THE STORMWATER DESIGN SHOWN ON THESE DRAWINGS HAS BEEN CARRIED OUT IN ACCORDANCE WITH GEORGES RIVER COUNCIL'S REQUIREMENTS, AUSTRALIAN RAINFALL AND RUNOFF (AR&R) GUIDELINES AND RELEVANT AUTHORITIES GUIDELINES.
2. FINISHED SURFACE LEVELS SHOWN ON CIVIL GRADING PLAN DRAWINGS TAKE PRECEDENCE OVER DRAINAGE LONGSECTION SURFACE LEVELS.
3. ALL STORMWATER WORK IS TO COMPLY WITH AS3500 PART 3.
4. PROTECTION OF PIPES EXPOSED TO LOADS EXCEEDING THE W7 WHEEL LOAD OF 70kN SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
5. NO CONSTRUCTION LOADS SHALL BE APPLIED TO uPVC PIPES.
6. EXISTING STORMWATER PIPE LOCATIONS AND INVERT LEVELS TO BE CONFIRMED PRIOR TO COMMENCEMENT OF CONSTRUCTION.
7. FOR ALL STORMWATER DRAINAGE PITS REFER TO TYPICAL PIT CHAMBER DETAILS ON THESE DRAWINGS. IF PIT LID SIZE IS SMALLER THAN THE PIT CHAMBER SIZE THEN THE PIT LID IS TO BE CONSTRUCTED ON THE CORNER OF THE PIT CHAMBER WITH THE STEP IRONS DIRECTLY BELOW. ALTERNATIVELY, THE PIT LID TO BE USED IS TO BE THE SAME SIZE AS THE PIT CHAMBER.
8. GALVANIZED STEP IRONS SHALL BE PROVIDED AT 300 CTRS FOR PITS HAVING A DEPTH EXCEEDING 1200mm.
9. PIPES 300 DIA. AND LARGER TO BE REINFORCED CONCRETE PIPES (RCP) CLASS 2 APPROVED SPIGOT AND SOCKET WITH RUBBER RING JOINTS UNO.
10. PIPES UP TO 300 DIA. SHALL BE SEWER GRADE uPVC WITH SOLVENT WELDED JOINTS.
11. EQUIVALENT STRENGTH VCP OR FRC PIPES MAY BE USED IF RELEVANT APPROVAL AUTHORITY AND SUPERINTENDENT PERMITS.
12. BEDDING TYPE SHALL BE TYPE H2 FOR RCP. WHERE NECESSARY THE OVERLAY ZONE SHALL BE REDUCED TO ACCOMMODATE PAVEMENT REQUIREMENTS.
13. PIPES SHALL BE LAID ON A 75mm THICK SAND BED. IN ALL CASES, BACKFILL TRENCH WITH SAND TO 200mm ABOVE THE PIPE. WHERE PIPE IS UNDER PAVEMENTS, BACKFILL REMAINDER OF TRENCH TO UNDERSIDE OF PAVEMENT WITH SAND OR APPROVED GRANULAR MATERIAL COMPACTED IN 150mm LAYERS TO 98% STANDARD MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289 5.2.1 (OR A DENSITY INDEX OF NOT LESS THAN 75).
14. WHERE TRENCHES ARE IN ROCK THE PIPE SHALL BE BEDDED ON A MINIMUM OF 50mm CONCRETE BED (OR 75mm BED OF 12mm BLUE METAL) UNDER THE BARREL OF THE PIPE.
15. ENLARGERS, CONNECTORS AND JUNCTIONS TO BE PREFABRICATED FITTINGS WHERE PIPES ARE LESS THAN 300 DIA.
16. CARE IS TO BE TAKEN WITH LEVELS OF STORMWATER LINES. GRADES SHOWN ARE NOT TO BE REDUCED WITHOUT PRIOR WRITTEN APPROVAL FROM THE ENGINEER.
17. GRATES AND COVERS SHALL CONFORM TO AS3996 AND AS1428.1 AT ALL TIMES DURING CONSTRUCTION OF THE STORMWATER PITS.
18. ALL EXISTING STORMWATER DRAINAGE LINES AND PITS THAT ARE TO REMAIN ARE TO BE INSPECTED AND CLEANED. DURING THIS PROCESS, ANY PART OF THE STORMWATER DRAINAGE SYSTEM THAT WARRANTS REPAIR SHALL BE REPORTED TO THE SUPERINTENDENT AND ENGINEER FOR FURTHER DIRECTIONS.

CONCRETE NOTES

GENERAL:

1. CARRY OUT ALL CONCRETE WORK IN ACCORDANCE WITH AS3600-1994 AND THE SPECIFICATION. KEEP A COPY OF THESE DOCUMENTS ON SITE.
2. VERIFY ALL SETTING OUT DIMENSIONS WITH THE ARCHITECT AND/OR THE SURVEYOR.
3. DO NOT OBTAIN DIMENSIONS BY SCALING THE DRAWINGS.
4. IN CASE OF DOUBT - ASK.

CONCRETE:

PLACE CONCRETE OF THE FOLLOWING CHARACTERISTIC COMPRESSIVE STRENGTH F'C AS DEFINED IN AS3600-1994 OR RTA FORM 609. ADD WATER-REDUCING ADMIXTURE EQUAL TO WRDA.

	AS3600 F'c MPa AT 28 DAYS	SPECIFIED SLUMP	NOMINAL AGG. SIZE
ALL KERBS, FOOTPATHS, ETC.	25	80	20
PITS	32	100	20
PAVEMENTS	40	80	20

1. USE TYPE GP CEMENT IN ACCORDANCE WITH AS3972.
2. ALL CONCRETE SHALL BE SUBJECT TO PROJECT CONTROL SAMPLE AND TESTING TO AS3600-1994.
3. CONSOLIDATE BY VIBRATION. CURE SURFACES BY COVERING WITH PLASTIC AND KEEPING THE SURFACE MOIST FOR A MINIMUM OF 7 DAYS.

REINFORCEMENT:

1. FIX REINFORCEMENT AS SHOWN ON DRAWINGS. THE TYPE AND GRADE IS INDICATED BY A SYMBOL AS SHOWN BELOW.
   N. HOT ROLLED DEFORMED BAR, GRADE 500
   R. PLAIN ROUND BAR, GRADE 250
   SL OR RL. HARD DRAWN WIRE FABRIC, SQUARE OR RECTANGULAR.
2. PROVIDE BAR SUPPORTS OR SPACERS TO GIVE THE FOLLOWING CONCRETE COVER TO ALL REINFORCEMENT UNLESS NOTED OTHERWISE.
   - FOOTINGS: 75 BOTTOM. 65 TOP AND SIDES 40
   - SLABS: 40 WHEN EXPOSED TO WEATHER.
   - DRAINAGE STRUCTURES: 30 WHEN CAST IN FORMS BUT LATER EXPOSED TO WEATHER OR GROUND. 65 WHEN CAST DIRECTLY IN CONTACT WITH GROUND.
3. ALL CONCRETE SHALL BE SUBJECT TO PROJECT CONTROL SAMPLE AND TESTING TO AS3600-1994.
4. CONSOLIDATE BY VIBRATION. CURE SURFACES BY COVERING WITH PLASTIC AND KEEPING THE SURFACE MOIST FOR A MINIMUM OF 7 DAYS.

CONCRETE VEHICULAR PAVEMENT NOTES:

1. CONCRETE MIX PARAMETERS:
   - MAXIMUM AGGREGATE SIZE 20mm.
   - FLEXURAL STRENGTH AT 28 DAYS = 3.5 MPa (F'c = 32MPa).
   - FLEXURAL STRENGTH AT 90 DAYS = 3.85 MPa.
   - MAXIMUM WATER / CEMENT RATIO = 0.45.
   - MAXIMUM SHRINKAGE LIMIT = 600 MICROSTRAINS (AS1012.13) AFTER 8 WEEKS OF DRYING.
   - MINIMUM CEMENT CONTENT = 300kg/m^3
   - CEMENT TO BE TYPE GP (NORMAL CEMENT) TO AS 3972.
   - SLUMP = 50mm
2. SAWN JOINTS ARE TO BE CUT BETWEEN 2-4 HOURS AFTER CONCRETE POUR USING SOFF CUT SAW TO AVOID DAMAGING THE SURFACE DURING SAWCUT.
3. FOR EXPANSION JOINTS, PRIOR TO THE PLACEMENT OF CONCRETE IN THE ADJACENT SLAB, SELF EXPANDING CORK FILLER SHALL BE ADHERED TO THE ALREADY CAST AND CLEANED CONCRETE FACE USING AN APPROVED WATERPROOF ADHESIVE. ADHESIVE SHALL BE LIBERALLY APPLIED TO THE FULL FACE OF THE CONCRETE SLAB TO BE COVERED BY THE FILLER, AND ON THE FULL FACE OF THE FILLER TO BE ADHERED. THE BUILDER SHALL PROVIDE CONSTANT SUPERVISION OF CONCRETE POURS EXECUTED BY SUB-CONTRACTORS TO ENSURE:
   - REINFORCEMENT DISPLACED OFF CHAIRS ARE REPLACED PRIOR TO CONCRETE PLACEMENT.
   - NO SITE WATER IS ADDED TO CONCRETE OR CONCRETE IN WAITING TRUCKS (REQUIRED SLUMP FOR PLACEMENT SHALL BE ACHIEVED USING SUPER PLASTICISER).
   - ALL CONCRETE IS FULLY COMPACTED USING A POKER VIBRATOR.
   - NO POURS ARE EXECUTED WHEN THE AMBIENT TEMPERATURE EQUALS OR EXCEEDS 35°C.
   - POURS ARE PROTECTED FROM ANY HOT DRYING WINDS.
4. REFER TO COMPACTION NOTES FOR PREPARATION OF SUB-BASE AND SUB-GRADE.
5. CURING: THE FINISHED CONCRETE SHALL BE CURED FOR A MINIMUM OF SEVEN DAYS USING AT LEAST ONE OF THE FOLLOWING METHODS:
   - PONDING OR CONTINUOUS SPRINKLING WITH WATER.
   - THE USE OF AN ABSORBENT COVER KEPT CONSTANTLY WET. (WHEN THE AMBIENT TEMPERATURE EXCEEDS 32°C CURING MAY ONLY BE ACHIEVED USING THE ABOVE TWO METHODS).
   - THE USE OF AN IMPERMEABLE SHEET MEMBRANE OVER A MOISTENED SURFACE (THE MEMBRANE SHALL BE FIXED AND LAPPED SO THAT NO AIR CIRCULATION CAN OCCUR AT THE CONCRETE SURFACE).
   - THE USE OF A CURING COMPOUND COMPLYING WITH AS3799, APPLIED UNIFORMLY IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS, AND WHEN DRY THE COAT SHOULD BE CONTINUOUS, FLEXIBLE AND WITHOUT VISIBLE BREAKS OR PIN HOLES FOR SEVEN DAYS.
6. BROOM CONCRETE FINISH UNLESS SPECIFIED OTHERWISE TO ARCHITECTS' REQUIREMENTS.

REV	DATE	DESCRIPTION	RVD
C01	28.02.2025	SCHEMATIC DESIGN SUBMISSION	SH
P02	21.02.2025	PRELIMINARY	SH
P01	31.01.2025	PRELIMINARY	SH

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PROJECT: WILTON JUNCTION
PUBLIC SCHOOL

STATUS: SCHEMATIC DESIGN SUBMISSION
NOT TO BE USED FOR CONSTRUCTION

TITLE: GENERAL NOTES

DRAWN	DESIGNED	CHECKED	APPROVED
JC	SM	SH	

DATUM	GRID	SCALE	AT A1 SIZE	DRAWING No.	REV
AHD	GDA2020 MGA-56			WJPS-BGEC-00-XX-DR-C-0001	C01

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REV	DATE	DESCRIPTION	RVD
C01	28.02.2025	SCHEMATIC DESIGN SUBMISSION	SH
P02	21.02.2025	PRELIMINARY	SH
P01	31.01.2025	PRELIMINARY	SH

REVISIONS

REV	DATE	DESCRIPTION	RVD

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PROJECT

WILTON JUNCTION
PUBLIC SCHOOL

STATUS
SCHEMATIC DESIGN SUBMISSION
NOT TO BE USED FOR CONSTRUCTION

TITLE
GENERAL ARRANGEMENT PLAN

DRAWN	DESIGNED	CHECKED	APPROVED
JC	SM	SH	

DATUM	GRID	SCALE	AT A1 SIZE	DRAWING No.	REV.
AHD	GDA2020 MGA-56	1:500		WJPS-BGEC-00-XX-DR-C-0010	C01

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NOTES:

1. NO ALLOWANCE FOR PAVEMENTS BOXING, LANDSCAPING SOIL OR SITE STRIPPING
2. DETAILED SITE GRADING HAS ALSO NOT BEEN INCORPORATED

SUMMARY

TOTAL CUT:	-2754.322m³
TOTAL FILL:	1759.686m³
TOTAL BALANCE:	-994.636m³

* NO ALLOWANCE FOR SITE STRIPPING
* NO ALLOWANCE FOR PAVEMENT BLOCKING OUT
* NO ALLOWANCE FOR LANDSCAPING
* NO ALLOWANCE FOR STRUCTURAL SLAB THICKNESS
* NO ALLOWANCE FOR SERVICE TRENCHING

BULK VOLUMES DO NOT TAKE INTO COUNCIL BULKING FACTORS, THIS IS ON THE CONTRACTOR TO CONFIRM.

LEGEND

- SITE BOUNDARY
- LANDSCAPE
- SURVEY
- 165.0 EXISTING SURFACE CONTOURS

EARTHWORKS DEPTHS Lower value		Upper value	Colour
-300	to	-1.45 m	
-1.45	to	-1.40 m	
-1.40	to	-1.35 m	
-1.35	to	-1.30 m	
-1.30	to	-1.25 m	
-1.25	to	-1.20 m	
-1.20	to	-1.15 m	
-1.15	to	-1.10 m	
-1.10	to	-1.05 m	
-1.05	to	-1.00 m	
-1.00	to	-0.95 m	
-0.95	to	-0.90 m	
-0.90	to	-0.85 m	
-0.85	to	-0.80 m	
-0.80	to	-0.75 m	
-0.75	to	-0.70 m	
-0.70	to	-0.65 m	
-0.65	to	-0.60 m	
-0.60	to	-0.55 m	
-0.55	to	-0.50 m	
-0.50	to	-0.45 m	
-0.45	to	-0.40 m	
-0.40	to	-0.35 m	
-0.35	to	-0.30 m	
-0.30	to	-0.25 m	
-0.25	to	-0.20 m	
-0.20	to	-0.15 m	
-0.15	to	-0.10 m	
-0.10	to	-0.05 m	
-0.05	to	0 m	
0	to	0.05 m	
0.05	to	0.10 m	
0.10	to	0.15 m	
0.15	to	0.20 m	
0.20	to	0.25 m	
0.25	to	0.30 m	
0.30	to	0.35 m	
0.35	to	0.40 m	
0.40	to	0.45 m	
0.45	to	0.50 m	
0.50	to	0.55 m	
0.55	to	0.60 m	
0.60	to	0.65 m	
0.65	to	0.70 m	
0.70	to	0.75 m	
0.75	to	0.80 m	
0.80	to	0.85 m	
0.85	to	0.90 m	
0.90	to	0.95 m	
0.95	to	1.00 m	
1.00	to	1.05 m	
1.05	to	1.10 m	
1.10	to	1.15 m	
1.15	to	1.20 m	
1.20	to	1.25 m	
1.25	to	1.30 m	
1.30	to	1.45 m	
1.45	to	1.50 m	
1.50	to	1.55 m	
1.55	to	300 m	

0 5 10 15 20 25 30m
SCALE 1:500 AT A1 SIZE

REV	DATE	DESCRIPTION	RVD
C01	28.02.2025	SCHEMATIC DESIGN SUBMISSION	SH
P02	21.02.2025	PRELIMINARY	SH
P01	31.01.2025	PRELIMINARY	SH

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PROJECT: WILTON JUNCTION
PUBLIC SCHOOL

STATUS: SCHEMATIC DESIGN SUBMISSION
NOT TO BE USED FOR CONSTRUCTION

TITLE: EARTHWORKS PLAN

DRAWN	DESIGNED	CHECKED	APPROVED
JC	SM	SH	

DATUM	GRID	SCALE	AT A1 SIZE	DRAWING No	REV
AHD	GDA2020 MGA-56	1:500		WJPS-BGEC-00-XX-DR-C-0100	C01

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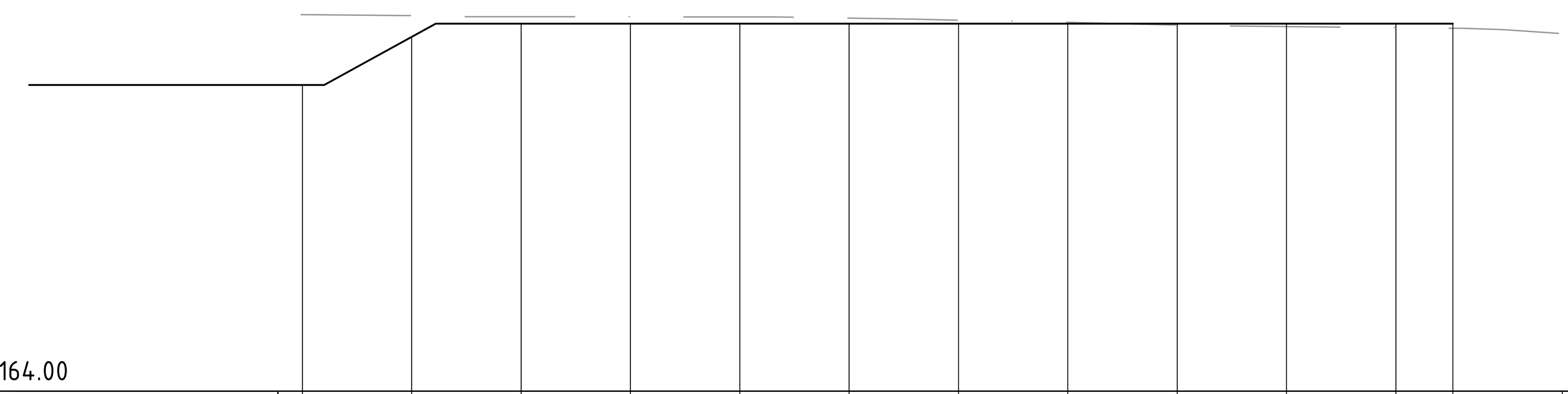
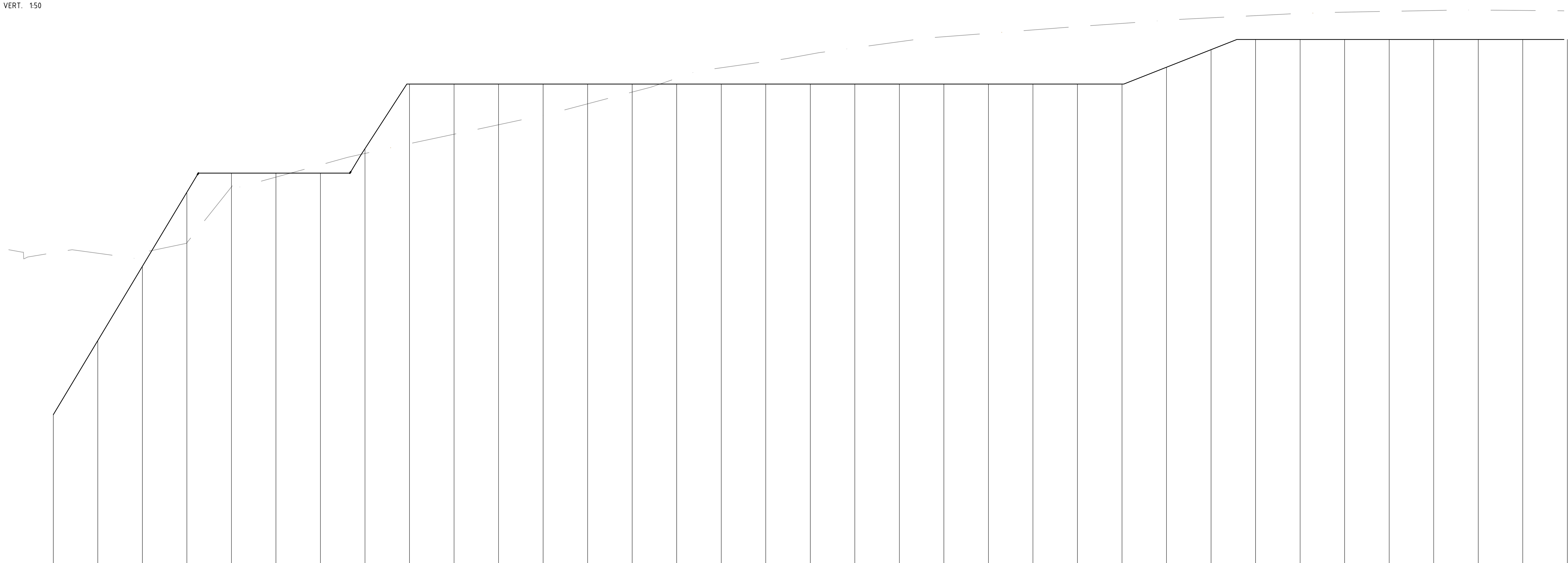


DATUM 164.00

DESIGN	166.800	167.239	167.360	167.360	167.360	167.360	167.360	167.360	167.360	167.360	167.360	167.360	
EXISTING SURFACE	167.444	167.434	167.424	167.423	167.423	167.411	167.393	167.373	167.348	167.335	167.324	167.318	167.269
CHAINAGE	170.000	175.000	180.000	185.000	190.000	195.000	200.000	205.000	210.000	215.000	220.000	222.605	227.605

LONGITUDINAL SECTION - ALIGNMENT SECTION 1

SCALE HORIZ. 1:250 VERT. 1:50



DATUM 155.00

DESIGN	158.376	160.040	161.704	163.369	163.800	163.800	163.800	164.349	165.800	165.800	165.800	165.800
EXISTING SURFACE	162.01	162	162.016	162.235	163.488	163.71	163.985	164.242	164.46	164.673	164.886	165.099
CHAINAGE	0.000	5.000	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000	55.000

DESIGN	165.800	165.800	165.800	165.800	165.800	165.800	165.800	165.800	165.800	165.800	165.800	165.800
EXISTING SURFACE	165.356	165.619	165.931	166.165	166.306	166.469	166.614	166.75	166.863	166.94	167.016	167.09
CHAINAGE	60.000	65.000	70.000	75.000	80.000	85.000	90.000	95.000	100.000	105.000	110.000	115.000

DESIGN	165.800	166.178	166.572	166.800	166.800	166.800	166.800	166.800	166.800	166.800	166.800
EXISTING SURFACE	167.162	167.233	167.287	167.337	167.386	167.414	167.433	167.451	167.462	167.453	167.444
CHAINAGE	120.000	125.000	130.000	135.000	140.000	145.000	150.000	155.000	160.000	165.000	170.000

LONGITUDINAL SECTION - ALIGNMENT SECTION 1

SCALE HORIZ. 1:250 VERT. 1:50

0 0.5 1.0 1.5 2.0 2.5 3.0m
SCALE 1:50 AT A1 SIZE

0 2.5 5.0 7.5 10 12.5 15m
SCALE 1:250 AT A1 SIZE

REV	DATE	DESCRIPTION	RVD
C01	28.02.2025	SCHEMATIC DESIGN SUBMISSION	SH

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REV	DATE	DESCRIPTION	RVD

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PROJECT
WILTON JUNCTION
PUBLIC SCHOOL

STATUS
SCHEMATIC DESIGN SUBMISSION
NOT TO BE USED FOR CONSTRUCTION

TITLE
EARTHWORKS SECTIONS
SHEET 1

DRAWN	DESIGNED	CHECKED	APPROVED
JC	SM	SH	

DATUM	GRID	SCALE AT A1 SIZE	DRAWING No.	REV.
AHD	GDA2020 MGA-56	AS SHOWN	WJPS-BGEC-00-XX-DR-C-0140	C01

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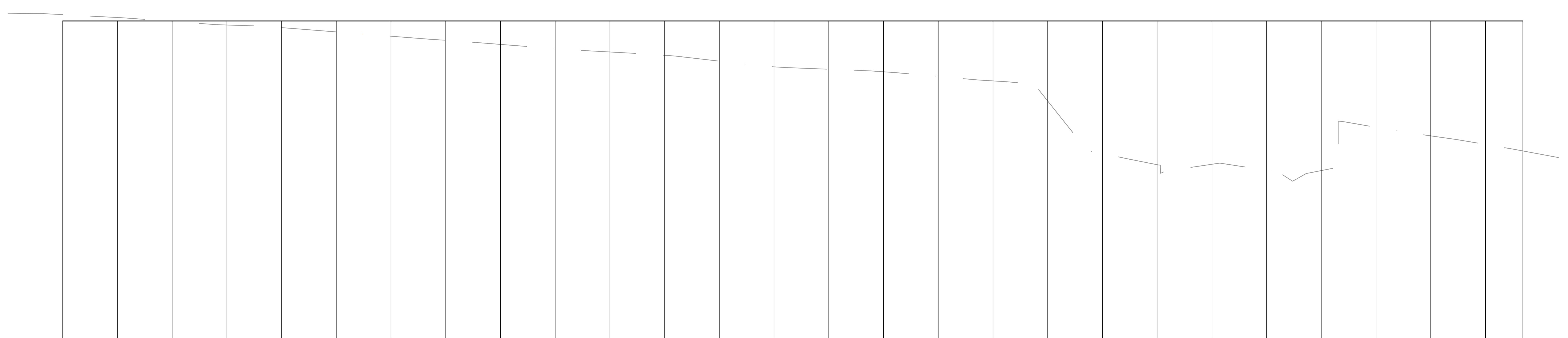

DATUM 160.00

CHAINAGE	0.000	5.000	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000
DESIGN	165.800	165.800	165.800	165.800	165.800	165.800	165.800	165.800	165.800	165.800
EXISTING SURFACE	165.916	165.864	165.793	165.727	165.679	165.601	165.523	165.447	165.372	165.294

CHAINAGE	50.000	55.000	60.000	65.000	70.000	75.000	80.000	85.000	90.000	95.000
DESIGN	165.800	165.800	165.800	165.800	165.800	165.800	165.800	165.800	165.800	165.800
EXISTING SURFACE	165.234	165.175	165.067	164.963	164.919	164.872	164.787	164.705	164.338	163.376

CHAINAGE	100.000	105.000	110.000	115.000	120.000	125.000	130.000	133.407	138.407
DESIGN	165.800	165.800	165.800	165.800	165.800	165.800	165.800	165.800	
EXISTING SURFACE	163.174	163.182	163.074	163.067	163.859	163.701	163.545	163.427	163.236

LONGITUDINAL SECTION - ALIGNMENT SECTION 2

SCALE HORIZ. 1:250 VERT. 1:50

0 0.5 1.0 1.5 2.0 2.5 3.0m
SCALE 1:50 AT A1 SIZE

0 2.5 5.0 7.5 10 12.5 15m
SCALE 1:250 AT A1 SIZE

REV	DATE	DESCRIPTION	RVD
C01	28.02.2025	SCHEMATIC DESIGN SUBMISSION	SH

REVISIONS

REV	DATE	DESCRIPTION	RVD

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PROJECT
WILTON JUNCTION
PUBLIC SCHOOL

STATUS
SCHEMATIC DESIGN SUBMISSION
NOT TO BE USED FOR CONSTRUCTION

TITLE
EARTHWORKS SECTIONS
SHEET 2

DRAWN	DESIGNED	CHECKED	APPROVED
JC	SM	SH	

DATUM	GRID	SCALE	AT A1 SIZE	DRAWING No.	REV.
AHD	GDA2020 MGA-56	AS SHOWN		WJPS-BGEC-00-XX-DR-C-0141	C01

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LEGEND

- SITE BOUNDARY
- LANDSCAPE
- SURVEY
- 167.80 — BULK EARTHWORKS DESIGN CONTOURS
- 165.0 — EXISTING SURFACE CONTOURS
- Ø300 uPVC @ 1% MIN — PROPOSED STORMWATER (SIZE AND GRADE)
- EXISTING DRAINAGE PIPE
- PROPOSED GRATED INLET PIT/ PROPOSED KERB INLET PIT
- EXISTING INLET PITS
- HEADWALL
- PROPOSED SWALE
- GD — PROPOSED GRATED DRAIN
- PROPOSED OSD TANK
- DP — DOWN PIPE

NOTES:

1. PROPOSED SURFACE INLET PITS TO BE INSTALLED WITH OCEANGUARD OG200 PIT INSERTS.
2. PROPOSED GRATED PIT LIDS TO BE CLASS 'B' CHILDPROOF HEEL SAFE UNLESS NOTED OTHERWISE.
3. ALL GRATED TRENCH DRAINS TO BE 100(D) X 100(W) EXCEPT FOR THE DRIVEWAY GRATED TRENCH DRAINS TO BE 100(D) X 200(W).
4. SUBSOIL TO BE PROVIDED BEHIND ALL RETAINING WALLS.
5. SUBSOIL TO BE PLACED ON THE UPHILL SIDE OF ALL PAVEMENTS.
6. DOWNPIPES TO BE COORDINATED AT DETAILED DESIGN.

CONNECT 600mm OUTLET PIPE TO EXISTING DRAINAGE PIT

GSIP 900 x 900 CLASS C CHILDPROOF HEEL SAFE RL 163.80

GSIP 450 x 450 CLASS B CHILDPROOF HEEL SAFE RL 163.80

GSIP 900 x 900 CLASS B CHILDPROOF HEEL SAFE RL 163.50

GSIP 900 x 900 CLASS B CHILDPROOF HEEL SAFE RL 163.80

GSIP 900 x 900 CLASS C CHILDPROOF HEEL SAFE RL 163.80

GSIP 900 x 900 CLASS B CHILDPROOF HEEL SAFE RL 164.50

GSIP 900 x 900 CLASS A CHILDPROOF HEEL SAFE RL 165.80

SIP 600x600 CLASS 'B' CHILDPROOF LOCK

GSIP 900 x 900 CLASS B CHILDPROOF HEEL SAFE RL 165.80

SIP 900 x 900 CLASS B CHILDPROOF HEEL SAFE RL 166.05

KIP 900 x 900 CLASS C CHILDPROOF HEEL SAFE RL 166.05

PROPOSED 0.9(W) x 0.3m DEEP PRECAST CULVERT TO MANUFACTURERS DETAILS CLASS 'B' CHILDPROOF LOCK

GSIP 900 x 900 CLASS B CHILDPROOF HEEL SAFE RL 166.32

GSIP 900 x 900 CLASS B CHILDPROOF HEEL SAFE RL 166.30

SIP 600 x 600 CLASS B CHILDPROOF HEEL SAFE RL 167.55

GSIP 600 x 600 CLASS B CHILDPROOF HEEL SAFE RL 167.20

SIP 900 x 900 CLASS B CHILDPROOF HEEL SAFE RL 167.30

SIP 900 x 900 CLASS B CHILDPROOF RL 167.45

SIP 600x600 CLASS 'B' CHILDPROOF LOCK

SIP 600x600 CLASS 'B' CHILDPROOF LOCK

GSIP 900 x 900 CLASS B CHILDPROOF HEEL SAFE RL 165.80

ROAD 14

MATCH LINE

JOINS DRG No. CI-0201

0 2.5 5.0 7.5 10 12.5 15m
SCALE 1:250 AT A1 SIZE

REV	DATE	DESCRIPTION	RVD
C01	28.02.2025	SCHEMATIC DESIGN SUBMISSION	SH
P02	21.02.2025	PRELIMINARY	SH
P01	31.01.2025	PRELIMINARY	SH

REVISIONS

CLIENT: NSW GOVERNMENT

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bgeeng.com—
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PROJECT: WILTON JUNCTION PUBLIC SCHOOL

STATUS: SCHEMATIC DESIGN SUBMISSION
NOT TO BE USED FOR CONSTRUCTION

TITLE: SITEWORKS AND DRAINAGE PLAN SHEET 1 OF 2

DRAWN	DESIGNED	CHECKED	APPROVED
JC	SM	SH	

DATUM	GRID	SCALE	AT A1 SIZE	DRAWING No	REV
AHD	GDA2020 MGA-56	1:250		WJPS-BGEC-00-XX-DR-C-0200	C01

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MATCH LINE

JOINS DRG No. CI-0200

GSIP 600 x 600 CLASS B CHILDPROOF HEEL SAFE RL 167.50

GSIP 600 x 600 CLASS B CHILDPROOF HEEL SAFE RL 167.80

GSIP 600 x 600 CLASS B CHILDPROOF HEEL SAFE RL 168.90

SIP 900 x 900 CLASS B CHILDPROOF HEEL SAFE RL 167.90

SIP 600 x 600 CLASS B CHILDPROOF HEEL SAFE RL 167.80

GSIP 900 x 900 CLASS B CHILDPROOF HEEL SAFE RL 167.00

SIP 600 x 600 CLASS B CHILDPROOF HEEL SAFE RL 167.20

GSIP 900 x 900 CLASS B CHILDPROOF HEEL SAFE RL 166.40

GSIP 600 x 600 CLASS B CHILDPROOF HEEL SAFE RL 165.70

GSIP 900 x 900 CLASS C CHILDPROOF HEEL SAFE RL 166.40

GSIP 600 x 600 CLASS B CHILDPROOF HEEL SAFE RL 165.70

GSIP 900 x 900 CLASS C CHILDPROOF HEEL SAFE RL 166.40

GSIP 450 x 450 CLASS B CHILDPROOF HEEL SAFE RL 167.30

GSIP 900 x 900 CLASS C CHILDPROOF HEEL SAFE RL 166.40

GSIP 900 x 900 CLASS C CHILDPROOF HEEL SAFE RL 166.40

GSIP 600 x 600 CLASS C CHILDPROOF HEEL SAFE RL 166.40

GSIP 600 x 600 CLASS C CHILDPROOF HEEL SAFE RL 166.40

LEGEND

- SITE BOUNDARY
- LANDSCAPE
- SURVEY
- 167.80 BULK EARTHWORKS DESIGN CONTOURS
- 165.0 EXISTING SURFACE CONTOURS
- ø300 uPVC @ 1% MIN PROPOSED STORMWATER (SIZE AND GRADE)
- EXISTING DRAINAGE PIPE
- PROPOSED GRATED INLET PIT/ PROPOSED KERB INLET PIT
- EXISTING INLET PITS
- HEADWALL
- PROPOSED SWALE
- PROPOSED GRATED DRAIN
- PROPOSED OSD TANK

NOTES:

1. PROPOSED SURFACE INLET PITS TO BE INSTALLED WITH OCEANGUARD OG200 PIT INSERTS.
2. PROPOSED GRATED PIT LIDS TO BE CLASS 'B' CHILDPROOF HEEL SAFE UNLESS NOTED OTHERWISE.
3. ALL GRATED TRENCH DRAINS TO BE 100(D) X 100(W) EXCEPT FOR THE DRIVEWAY GRATED TRENCH DRAINS TO BE 100(D) X 200(W).
4. SUBSOIL TO BE PROVIDED BEHIND ALL RETAINING WALLS.
5. SUBSOIL TO BE PLACED ON THE UPHILL SIDE OF ALL PAVEMENTS.
6. DOWNPIPES TO BE COORDINATED AT DETAILED DESIGN.

SCALE 1:250 AT A1 SIZE

REV	DATE	DESCRIPTION	RVD
C01	28.02.2025	SCHEMATIC DESIGN SUBMISSION	SH
P02	21.02.2025	PRELIMINARY	SH
P01	31.01.2025	PRELIMINARY	SH

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PROJECT: WILTON JUNCTION PUBLIC SCHOOL

STATUS: SCHEMATIC DESIGN SUBMISSION — NOT TO BE USED FOR CONSTRUCTION

DRAWN	DESIGNED	CHECKED	APPROVED
JC	SM	SH	

DATUM	GDA	SCALE	AT A1 SIZE	DRAWING No.	REV.
AHD	GDA2020 MGA-56	1:250		WJPS-BGEC-00-XX-DR-C-0201	C01

TITLE: SITEWORKS AND DRAINAGE PLAN SHEET 2 OF 2

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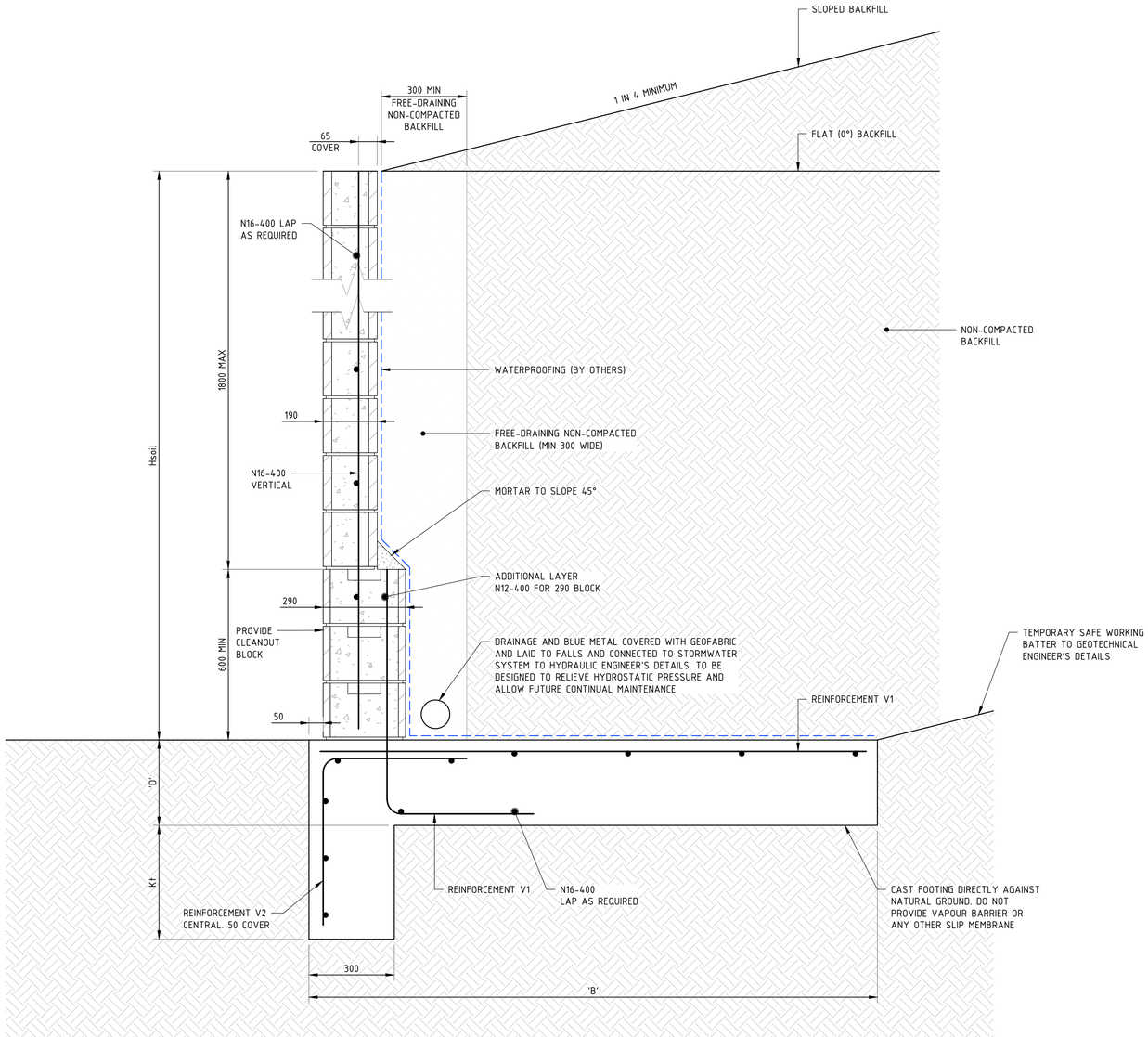
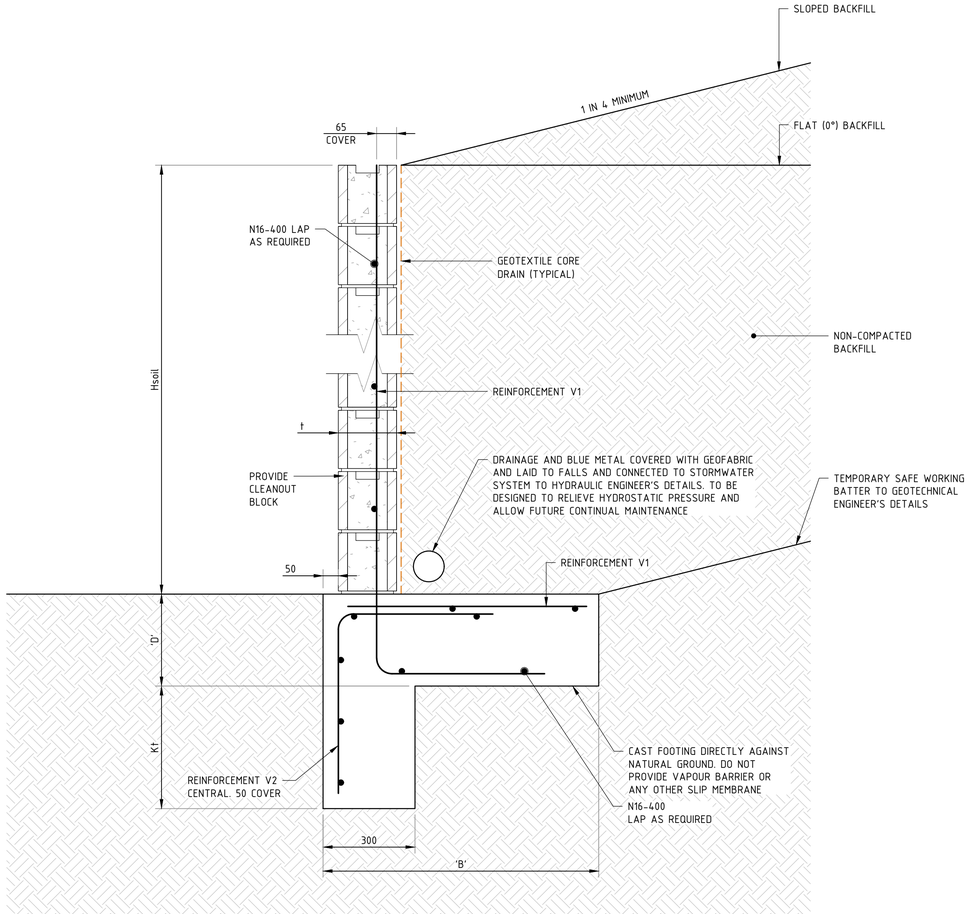


RETAINING WALL HEEL TWO BLOCK DETAIL (t=290mm)

SCALE 1:10

HEEL FLAT							
Hs oil	t(mm)	D(mm)	B(mm)	Kt(mm)	Kb(mm)	REINFORCEMENT	
						V1	V2
800	140	250	600	300	300	N12-400	N12-400
1000	140	250	800	300	300	N12-400	N12-400
1200	140	250	900	300	300	N12-400	N12-400
1400	140	250	1100	300	300	N16-400	N12-400
1600	190	250	1200	350	300	N12-400	N12-400
1800	190	250	1300	400	300	N16-400	N12-400
2000	290	300	1400	400	300	N16-400	N12-400

HEEL SLOPED							
Hs oil	t(mm)	D(mm)	B(mm)	Kt(mm)	Kb(mm)	REINFORCEMENT	
						V1	V2
800	140	250	700	250	300	N12-400	N12-400
1000	140	250	900	250	300	N12-400	N12-400
1200	140	250	1000	300	300	N12-400	N12-400
1400	190	250	1100	400	300	N12-400	N12-400
1600	190	250	1300	400	300	N16-400	N12-400
1800	190	250	1400	450	300	N16-400	N12-400
2000	290	300	1500	500	300	N16-200	N12-400



RETAINING WALL HEEL SINGLE BLOCK DETAIL (t<290mm)

SCALE 1:10

NOTES

1. THIS WALL HAS BEEN DESIGNED FOR STRUCTURAL CLASSIFICATION B AS PER AS 4678
2. DESIGN LIFE IS 50 YEARS
3. BACKFILL IS IN-SITU
4. MAX LIVE LOAD SURCHARGE ALLOWANCE IS 5kPa FOR FLAT BACKSLOPE OR 2.5kPa FOR BACKSLOPED
5. MAX SOIL UNIT WEIGHT 18kN/m^3
6. GEOTECHNICAL ENGINEER TO CONFIRM SERVICE ALLOWABLE BEARING PRESSURE OF 200kPa
7. GEOTECHNICAL ENGINEER TO CONFIRM EFFECTIVE INTERNAL FRICTION ANGLE Φ' = 30 DEGREES AND FRICTION COEFFICIENT = 0.4
8. CONCRETE BLOCK STRENGTH f'uc = 15MPA, CORE FILLED 20 MPa CONCRETE WITH 10 mm AGGREGATE
9. COVER TO STEEL REINFORCEMENT = 65mm IN BLOCKWORK, 50 IN CONCRETE
10. SOIL IS ASSUMED TO BE DRAINED. DRAINAGE BY OTHERS
11. FOR LAPS REFER TO PROJECTS GENERAL NOTES
12. CONCRETE FOOTING TO BE f'c = 32 MPa
13. WALL STARTER BARS TO BE POSITIONED ACCURATELY BY TEMPLATES OR SIMILAR MEANS
14. PLACE NO BACKFILL AGAINST RETAINING WALL UNTIL 14 DAYS AFTER FILLING ALL CORES WITH CONCRETE BLOCK MIX
15. CONCRETE CORE FILL TO BE POURED AND PLACED WITH A PENCIL VIBRATOR TO ENSURE FILL AND DENSE FILLING OF ALL CORES
16. TEMPORARY SAFE WORKING BATTER TO GEOTECHNICAL ENGINEER'S DETAILS
17. CONSTRUCT RETAINING WALLS USING "DOUBLE U-BLOCKS"

0 100 200 300 400 500 600mm
SCALE 1:10 AT A1 SIZE

REV	DATE	DESCRIPTION	RVD
C01	28.02.2025	SCHEMATIC DESIGN SUBMISSION	SH

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CLIENT: NSW GOVERNMENT

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PROJECT: WILTON JUNCTION
PUBLIC SCHOOL

STATUS: SCHEMATIC DESIGN SUBMISSION
NOT TO BE USED FOR CONSTRUCTION

TITLE: TYPICAL DETAILS
BLOCKWORK RETAINING WALLS
SHEET 1 OF 2

DRAWN	DESIGNED	CHECKED	APPROVED
JC	SM	SH	

DATUM	GRID	SCALE	AT A1 SIZE	DRAWING No	REV.
AHD	GDA2020 MGA-56	1:10		WJPS-BGEC-00-XX-DR-C-0280	C01

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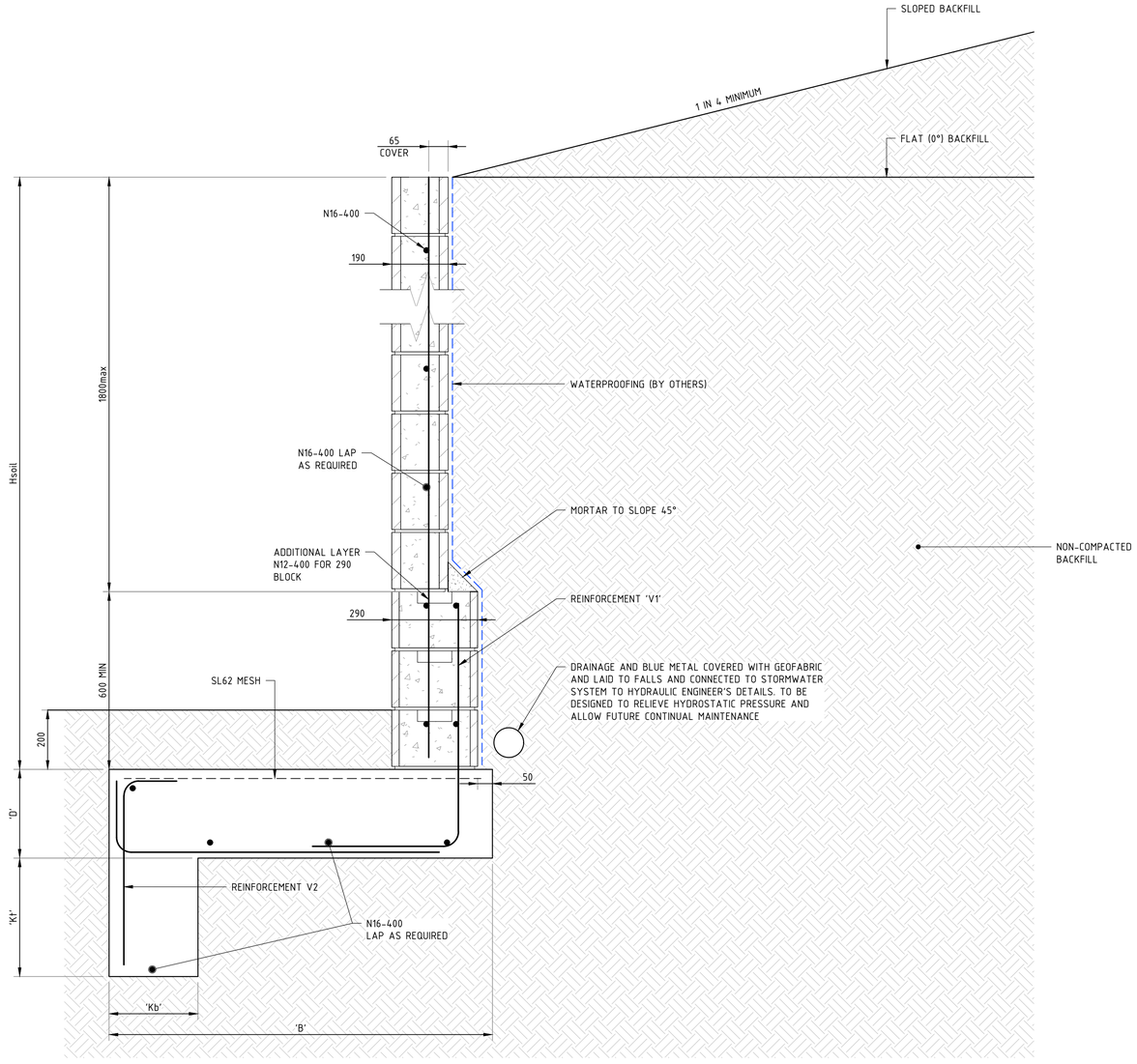
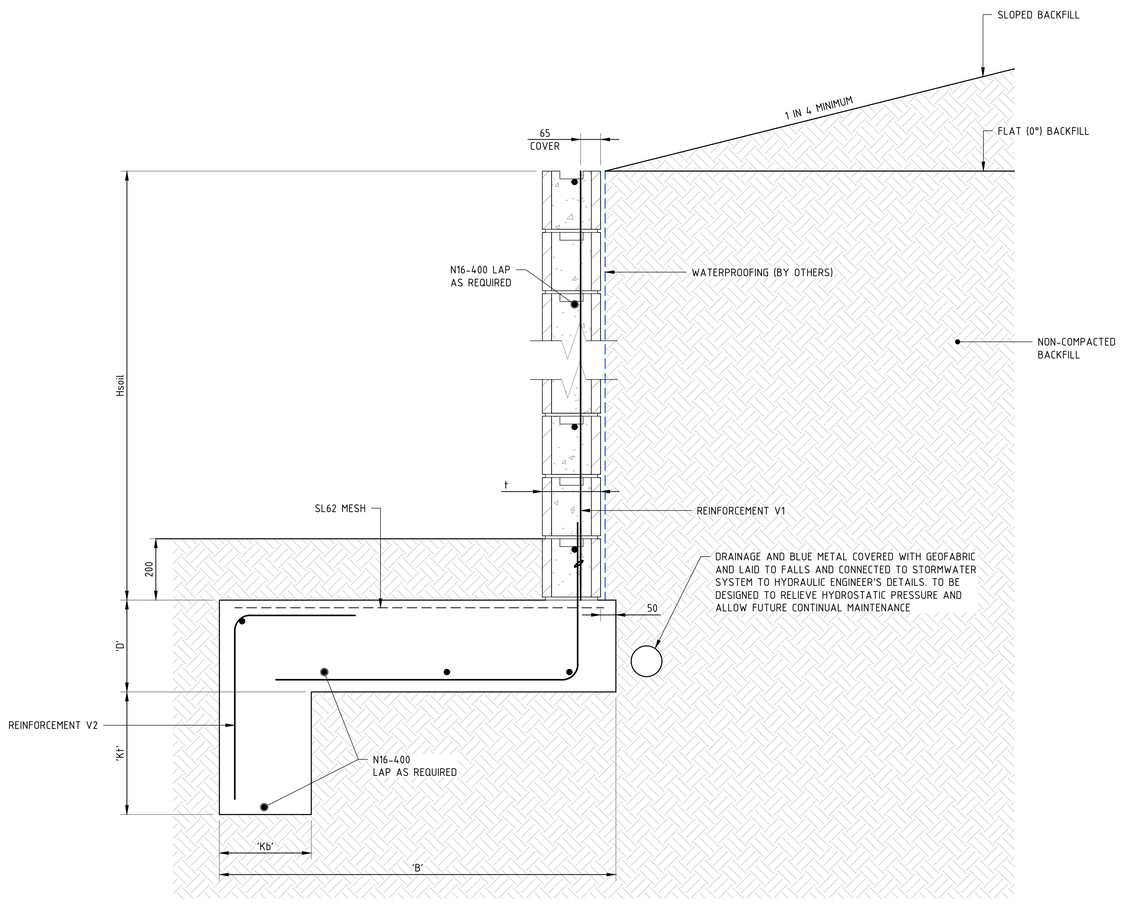


RETAINING WALL TOE TWO BLOCK DETAIL (t=290mm)

SCALE 1:10

TOE FLAT							
Hs oil	t(mm)	D(mm)	B(mm)	Kt(mm)	Kb(mm)	REINFORCEMENT	
						V1	V2
800	140	250	500	200	300	N12-400	N12-400
1000	140	250	700	250	300	N12-400	N12-400
1200	140	250	900	350	300	N12-400	N12-400
1400	190	250	1100	400	300	N16-400	N12-400
1600	190	250	1300	450	300	N16-400	N12-400
1800	290	250	1500	500	300	N16-400	N12-400
2000	290	300	1600	600	300	N16-400	N12-400

TOE SLOPED							
Hs oil	t(mm)	D(mm)	B(mm)	Kt(mm)	Kb(mm)	REINFORCEMENT	
						V1	V2
800	140	250	600	250	300	N12-400	N12-400
1000	140	250	800	250	300	N12-400	N12-400
1200	140	250	1100	300	300	N12-400	N12-400
1400	190	250	1200	400	300	N16-400	N12-400
1600	190	250	1500	450	300	N16-400	N12-400
1800	190	250	1600	600	300	N16-400	N12-400
2000	290	300	1700	600	300	N16-400	N12-400



RETAINING WALL TOE SINGLE BLOCK DETAIL (t<290mm)

SCALE 1:10

NOTES

1. THIS WALL HAS BEEN DESIGNED FOR STRUCTURAL CLASSIFICATION B AS PER AS 4678
2. DESIGN LIFE IS 50 YEARS
3. BACKFILL IS IN-SITU
4. MAX LIVE LOAD SURCHARGE ALLOWANCE IS 5kPa FOR FLAT BACKSLOPE OR 2.5kPa FOR BACKSLOPED
5. MAX SOIL UNIT WEIGHT 18kN/m^3
6. GEOTECHNICAL ENGINEER TO CONFIRM SERVICE ALLOWABLE BEARING PRESSURE OF 200kPa
7. GEOTECHNICAL ENGINEER TO CONFIRM EFFECTIVE INTERNAL FRICTION ANGLE Φ' = 30 DEGREES AND FRICTION COEFFICIENT = 0.4
8. CONCRETE BLOCK STRENGTH f'uc = 15MPA, CORE FILLED 20 MPa CONCRETE WITH 10 mm AGGREGATE
9. COVER TO STEEL REINFORCEMENT = 65mm IN BLOCKWORK, 50 IN CONCRETE
10. SOIL IS ASSUMED TO BE DRAINED. DRAINAGE BY OTHERS
11. FOR LAPS REFER TO PROJECTS GENERAL NOTES
12. CONCRETE FOOTING TO BE f'c = 32 MPa
13. WALL STARTER BARS TO BE POSITIONED ACCURATELY BY TEMPLATES OR SIMILAR MEANS
14. PLACE NO BACKFILL AGAINST RETAINING WALL UNTIL 14 DAYS AFTER FILLING ALL CORES WITH CONCRETE BLOCK MIX
15. CONCRETE CORE FILL TO BE POURED AND PLACED WITH A PENCIL VIBRATOR TO ENSURE FILL AND DENSE FILLING OF ALL CORES
16. TEMPORARY SAFE WORKING BATTER TO GEOTECHNICAL ENGINEER'S DETAILS
17. CONSTRUCT RETAINING WALLS USING "DOUBLE U-BLOCKS"

0 100 200 300 400 500 600mm
SCALE 1:10 AT A1 SIZE

REV	DATE	DESCRIPTION	RVD
C01	28.02.2025	SCHEMATIC DESIGN SUBMISSION	SH

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CLIENT: NSW GOVERNMENT

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PROJECT: WILTON JUNCTION
PUBLIC SCHOOL

STATUS: SCHEMATIC DESIGN SUBMISSION
NOT TO BE USED FOR CONSTRUCTION

DRAWN	DESIGNED	CHECKED	APPROVED
JC	SM	SH	

DATUM	GRID	SCALE	AT A1 SIZE	DRAWING No.	REV.
AHD	GDA2020 MGA-56	1:10		WJPS-BGEC-00-XX-DR-C-0281	C01

TITLE: TYPICAL DETAILS
BLOCKWORK RETAINING WALLS
SHEET 2 OF 2

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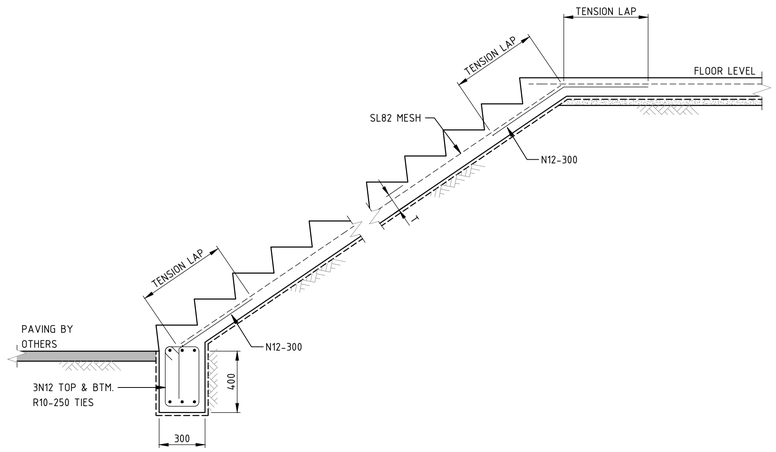

TYPICAL EXTERNAL STAIR SECTION

SCALE 1:20

0 0.2 0.4 0.6 0.8 1.0 1.2m

SCALE 1:20 AT A1 SIZE

REV	DATE	DESCRIPTION	RVD
C01	28.02.2025	SCHEMATIC DESIGN SUBMISSION	SH

REVISIONS

REV	DATE	DESCRIPTION	RVD

REVISIONS

CLIENT

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PROJECT

WILTON JUNCTION
PUBLIC SCHOOL

STATUS
SCHEMATIC DESIGN SUBMISSION
NOT TO BE USED FOR CONSTRUCTION

TITLE
TYPICAL DETAILS

DRAWN	DESIGNED	CHECKED	APPROVED
JC	SM	SH	

DATUM	GRID	SCALE	AT A1 SIZE	DRAWING No	REV
AHD	GDA2020 MGA-56	1:20		WJPS-BGEC-00-XX-DR-C-0282	C01

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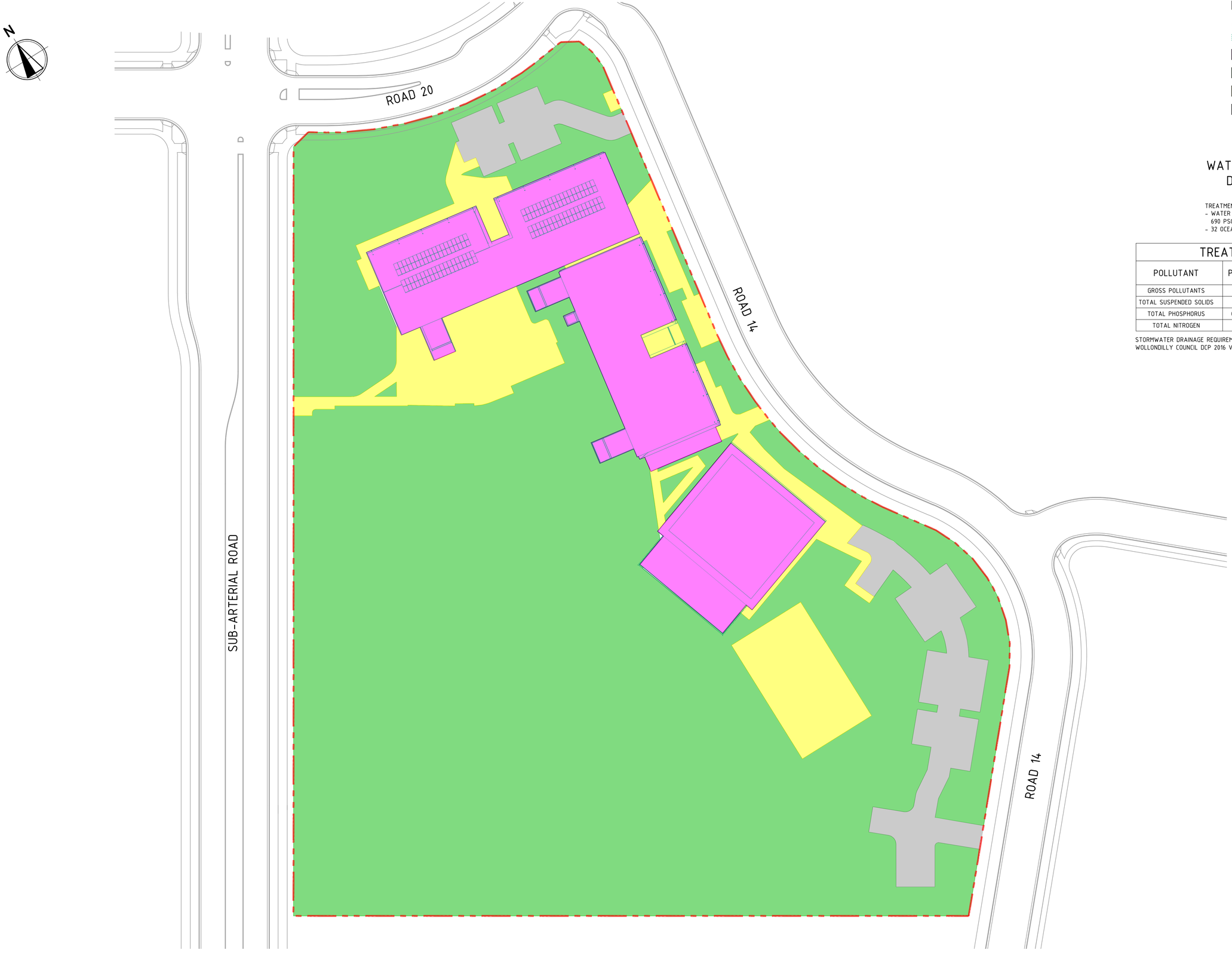

LEGEND

SITE BOUNDARY	
ARCHITECTURAL	
ROOF =	4,615m²
PERVIOUS LANDSCAPE =	24,240m²
IMPERVIOUS LANDSCAPING =	3,150m²
ROAD =	1,955m²
TOTAL SITE AREA =	33,960m²

WATER QUALITY FOR DEVELOPMENT

TREATMENT DEVICES:
- WATER QUALITY CHAMBER WITH 14 OCEAN PROTECT 690 PSORB (MCC) STORMFILTER CARTRIDGES
- 32 OCEANGUARD

TREATMENT STANDARDS

POLLUTANT	POST	REDUCTION (%)	COUNCIL REQUIREMENTS (%)
GROSS POLLUTANTS	0	100	90
TOTAL SUSPENDED SOLIDS	160	86.8	85
TOTAL PHOSPHORUS	0.933	65.2	65
TOTAL NITROGEN	13	45.5	45

STORMWATER DRAINAGE REQUIREMENTS HAVE BEEN CALCULATED IN ACCORDANCE WITH WOLLONDILLY COUNCIL DCP 2016 VOLUME 7

0 5 10 15 20 25 30m
SCALE 1:500 AT A1 SIZE

REV	DATE	DESCRIPTION	RVD
C01	28.02.2025	SCHEMATIC DESIGN SUBMISSION	SH
P01	21.02.2025	PRELIMINARY	SH

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PROJECT
WILTON JUNCTION
PUBLIC SCHOOL

STATUS
SCHEMATIC DESIGN SUBMISSION
NOT TO BE USED FOR CONSTRUCTION

DRAWN	DESIGNED	CHECKED	APPROVED
JC	SM	SH	

DATUM	GRID	SCALE	AT	DRAWING No.	REV.
AHD	GDA2020 MGA-56	1:500	A1	WJPS-BGEC-00-XX-DR-C-0300	C01

TITLE
DRAINAGE CATCHMENT PLAN

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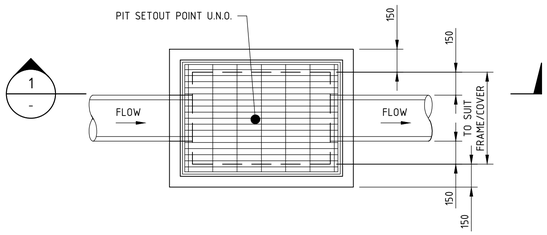
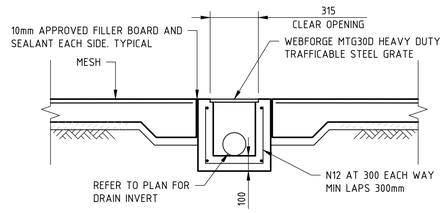
NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.



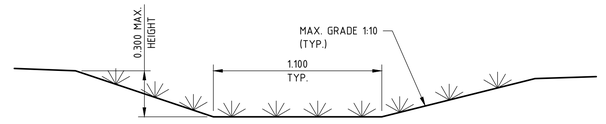
PLAN - GRATED / JUNCTION PIT DETAIL

SCALE 1:20



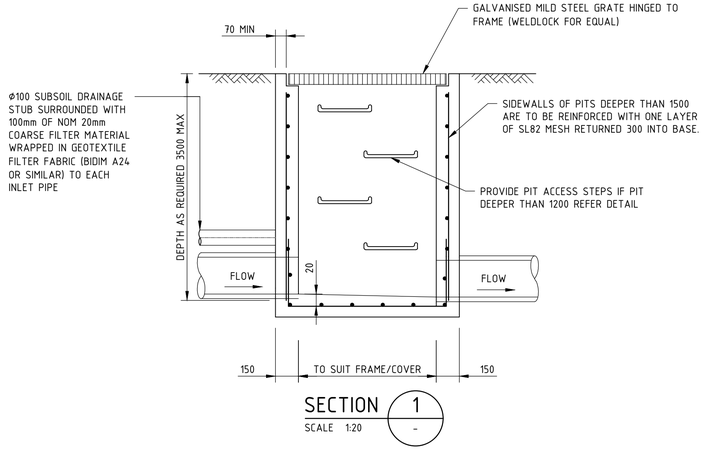
GRATED TRENCH DETAIL

SCALE : N.T.S



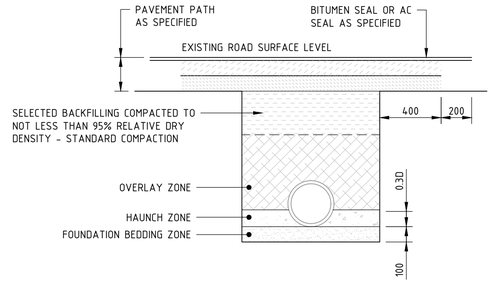
GRASSED SWALE DETAIL

SCALE 1:20



SECTION 1 / -

SCALE 1:20



TYPICAL STORMWATER DRAINAGE INSTALLATION IN EXISTING ROADWAY

SCALE : N.T.S

0 0.2 0.4 0.6 0.8 1.0 1.2m

SCALE 1:20 AT A1 SIZE

REV	DATE	DESCRIPTION	RVD
C01	28.02.2025	SCHEMATIC DESIGN SUBMISSION	SH
P02	21.02.2025	PRELIMINARY	SH
P01	31.01.2025	PRELIMINARY	SH

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BG&E

PROJECT: WILTON JUNCTION PUBLIC SCHOOL

STATUS: SCHEMATIC DESIGN SUBMISSION
NOT TO BE USED FOR CONSTRUCTION

TITLE: DRAINAGE DETAILS

DRAWN	DESIGNED	CHECKED	APPROVED
JC	SM	SH	

DATUM	GRID	SCALE	AT A1 SIZE	DRAWING No.	REV.
AHD	GDA2020 MGA-56	1:20		WJPS-BGEC-00-XX-DR-C-0340	C01

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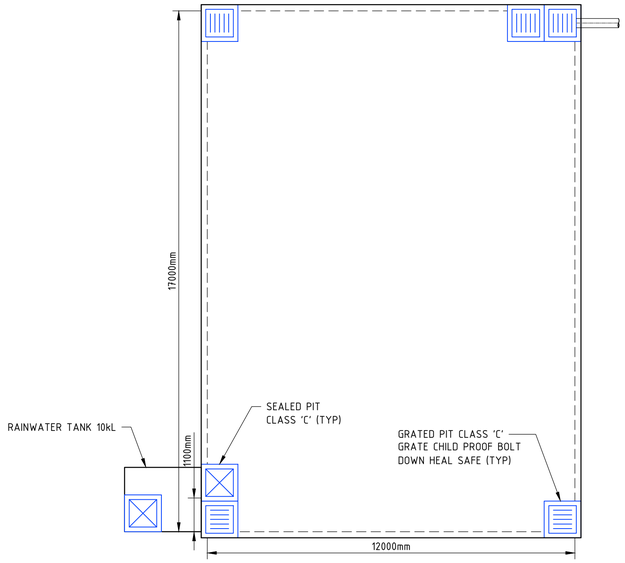
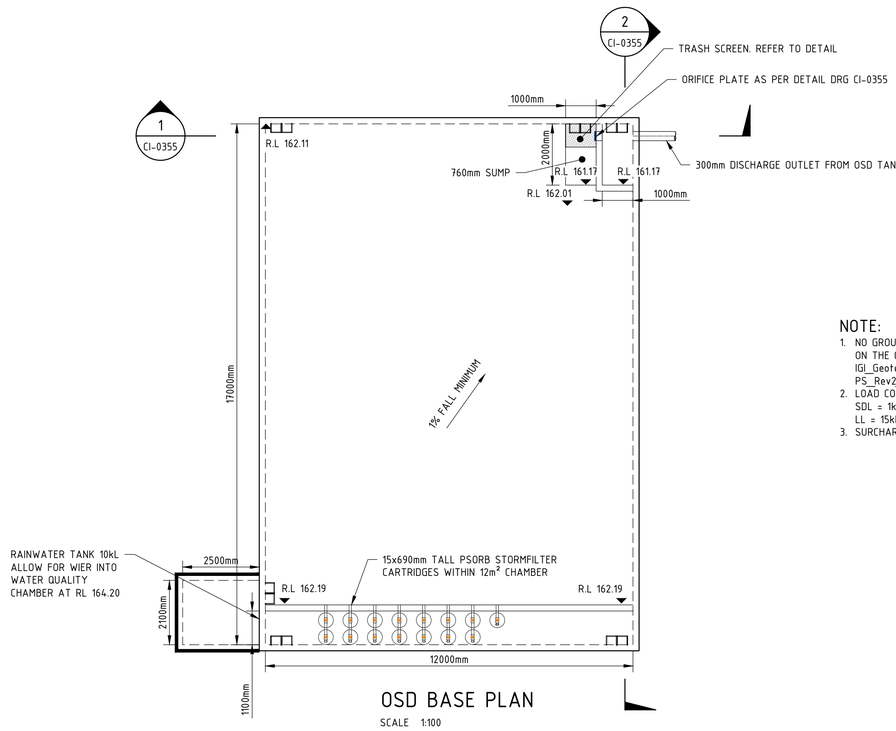
NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. ALL LEVELS ARE IN METRES.



OSD LID PLAN

SCALE 1:100

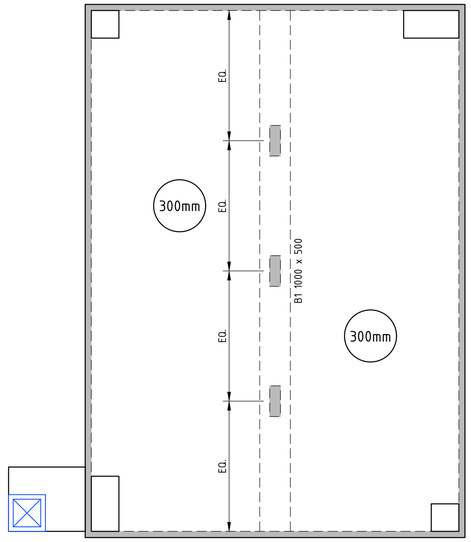


OSD BASE PLAN

SCALE 1:100

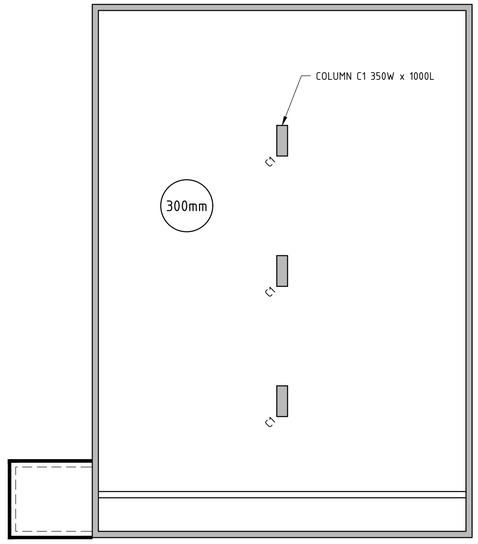
NOTE:

1. NO GROUNDWATER LOAD WAS CONSIDERED BASED ON THE GEOTECHNICAL REPORT: IGI_Geotechnical_GG11529.001_Wilton Junction NEW PS_Rev2_final.
2. LOAD CONSIDERED FOR TANK LID SLAB IS:
   SDL = 1kN
   LL = 15kN
3. SURCHARGE LOAD CONSIDERED IS 15kN.



OSD STRUCTURAL LID PLAN

SCALE 1:100



OSD BASE SLAB PLAN

SCALE 1:100

0 1 2 3 4 5 6m
SCALE 1:100 AT A1 SIZE

REV	DATE	DESCRIPTION	RVD
C01	28.02.2025	SCHEMATIC DESIGN SUBMISSION	SH
P02	21.02.2025	PRELIMINARY	SH
P01	31.01.2025	PRELIMINARY	SH

REVISIONS

REV DATE DESCRIPTION RVD

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PROJECT: WILTON JUNCTION
PUBLIC SCHOOL

STATUS: SCHEMATIC DESIGN SUBMISSION
NOT TO BE USED FOR CONSTRUCTION

TITLE: OSD PLAN

DRAWN	DESIGNED	CHECKED	APPROVED
JC	SM	SH	

DATUM	GRID	SCALE	AT A1 SIZE	DRAWING No.	REV.
AHD	GDA2020 MGA-56	1:100		WJPS-BGEC-00-XX-DR-C-0350	C01

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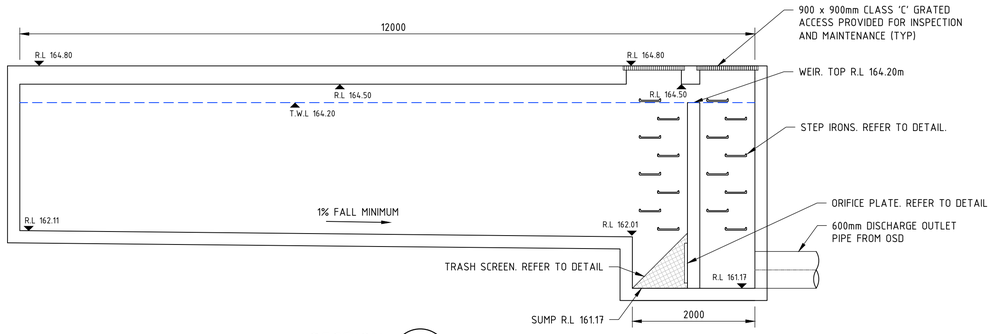
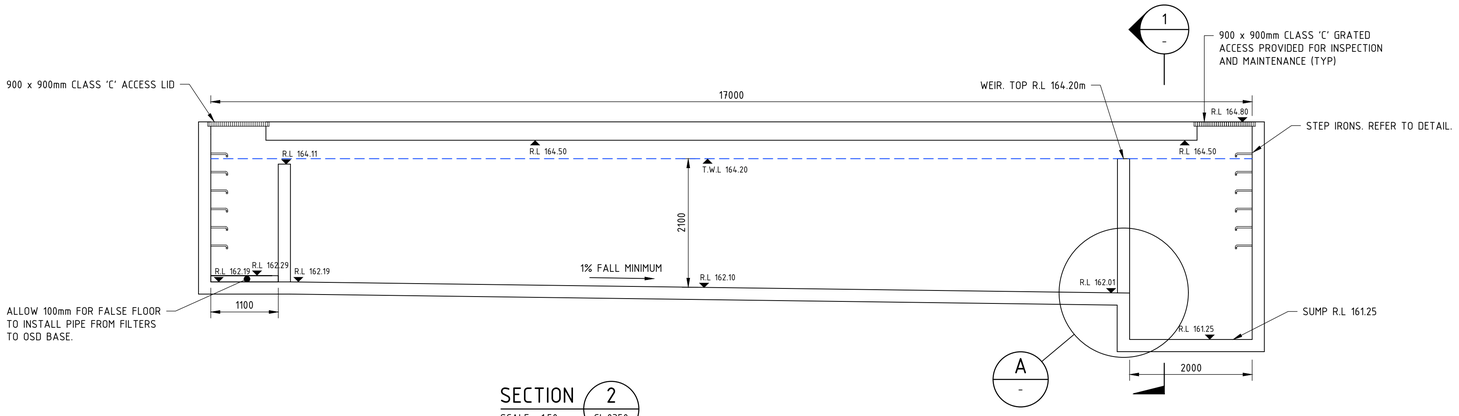


SECTION 1 — SCALE 1:50 — CI-0350

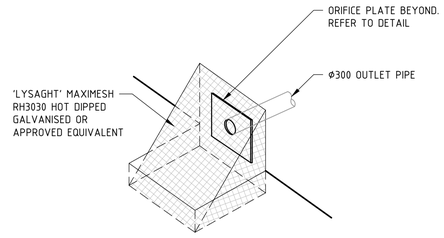
NOTE:
REQUIRED VOLUME: 424.47 m^3
PROVIDED VOLUME: 428.4 m^3
REQUIRED PSD: 781.03 L/s
PROVIDED PSD: 778.43 L/s



SECTION 2 — SCALE 1:50 — CI-0350

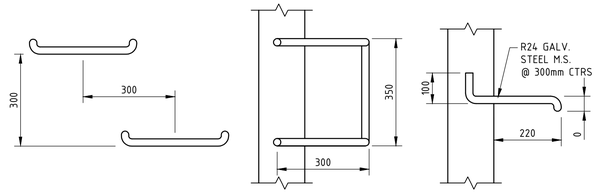
NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. ALL LEVELS ARE IN METRES.



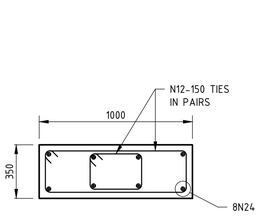
TRASH SCREEN DETAIL

N.T.S



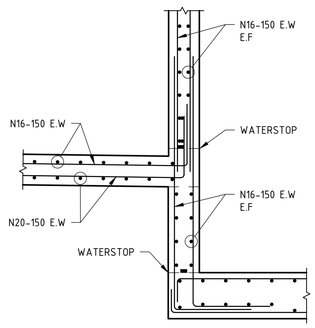
TYPICAL STEP IRON DETAILS

N.T.S.

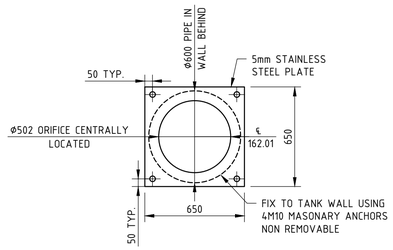


COLUMN C1 DETAIL

SCALE 1:20

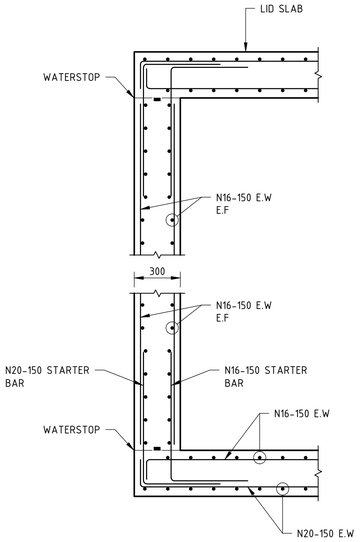


DETAIL A — SCALE 1:20



Φ502mm ORIFICE PLATE DETAIL

SCALE 1:20



SECTION 1 — SCALE 1:20 — -

0 0.2 0.4 0.6 0.8 1.0 1.2m
SCALE 1:20 AT A1 SIZE

0 0.5 1.0 1.5 2.0 2.5 3.0m
SCALE 1:50 AT A1 SIZE

REV	DATE	DESCRIPTION	RVD
C01	28.02.2025	SCHEMATIC DESIGN SUBMISSION	SH
P02	21.02.2025	PRELIMINARY	SH
P01	31.01.2025	PRELIMINARY	SH

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PROJECT: WILTON JUNCTION
PUBLIC SCHOOL

STATUS: SCHEMATIC DESIGN SUBMISSION
NOT TO BE USED FOR CONSTRUCTION

TITLE: OSD SECTIONS AND DETAILS

DRAWN	DESIGNED	CHECKED	APPROVED
JC	SM	SH	

DATUM	GRID	SCALE	AT A1 SIZE	DRAWING No.	REV.
AHD	GDA2020 MGA-56	AS SHOWN		WJPS-BGEC-00-XX-DR-C-0355	C01

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N

ROAD 20

SUB-ARTERIAL ROAD

ROAD 14

R5-10

INSTALL SINGLE DIVIDING BROKEN LINE (DL1)

INSTALL PAVEMENT ARROWS

INSTALL PARKING SPACE LINES (PS1)

INSTALL SYMBOLS OF DEDICATED SPACE

INSTALL SYMBOLS OF DEDICATED SPACE

INSTALL PARKING SPACE LINES (PS1)

INSTALL PAVEMENT ARROWS

INSTALL PARKING SPACE LINES (PS1)

INSTALL PAVEMENT ARROWS

INSTALL SINGLE DIVIDING BROKEN LINE (DL1)

INSTALL PAVEMENT ARROWS

R1-2

LEGEND

- SITE BOUNDARY
- LANDSCAPE
- PROPOSED SIGN POST
- PROPOSED BOLLARD
- PAVEMENT ARROWS
- DEDICATED SPACE
- SHARED AREA
- PS1 — CONTINUOUS LINE - PARKING SPACE
- DL1 — SINGLE BROKEN DIVIDING LINE
- GWP — GIVE WAY LINE

0 5 10 15 20 25 30m
SCALE 1:500 AT A1 SIZE

REV	DATE	DESCRIPTION	RVD
C01	28.02.2025	SCHEMATIC DESIGN SUBMISSION	SH
P02	21.02.2025	PRELIMINARY	SH
P01	31.01.2025	PRELIMINARY	SH

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WILTON JUNCTION
PUBLIC SCHOOL

STATUS
SCHEMATIC DESIGN SUBMISSION
NOT TO BE USED FOR CONSTRUCTION

DRAWN	DESIGNED	CHECKED	APPROVED
JC	SM	SH	

DATUM	GRID	SCALE	AT	DRAWING No.	REV
AHD	GDA2020 MGA-56	1:500	A1 SIZE	WJPS-BGEC-00-XX-DR-C-0400	C01

TITLE
LINEMARKING AND SIGN PLAN

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LEGEND

- SITE BOUNDARY
- LANDSCAPE
- SURVEY
- 165.0 EXISTING SURFACE CONTOURS
- RETAINING WALL
- KO KERB ONLY
- K&G KERB AND GUTTER
- ROAD PAVEMENT
- EXTERNAL PATHS TYPE 2

NOTES:

1. CONTRACTOR TO ALLOW FOR JOINTS PAVEMENT DESIGN FOR TENDER.
2. PAVEMENT THICKNESS T.B.C. ONCE GEOTECHNICAL INVESTIGATION FOR C.B.R. VALUES COMPLETED.
3. CONTRACT TO MAKE ALLOWANCE FOR SUITABLE JOINTING REQUIREMENTS INLINE WITH THE DETAILS SHOWN IN THE DETAILS.

0 5 10 15 20 25 30m
SCALE 1:500 AT A1 SIZE

REV	DATE	DESCRIPTION	RVD
C01	28.02.2025	SCHEMATIC DESIGN SUBMISSION	SH
P02	21.02.2025	PRELIMINARY	SH
P01	31.01.2025	PRELIMINARY	SH

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PROJECT
WILTON JUNCTION
PUBLIC SCHOOL

STATUS
SCHEMATIC DESIGN SUBMISSION
NOT TO BE USED FOR CONSTRUCTION

TITLE
PAVEMENT PLAN

DRAWN	DESIGNED	CHECKED	APPROVED
JC	SM	SH	

DATUM	GRID	SCALE	AT	DRAWING No.	REV
AHD	GDA2020 MGA-56	1:500	A1	WJPS-BGEC-00-XX-DR-C-0500	C01

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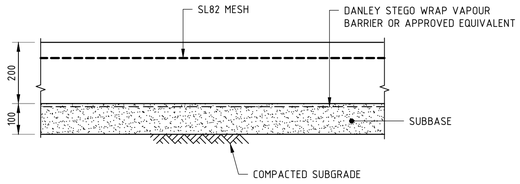
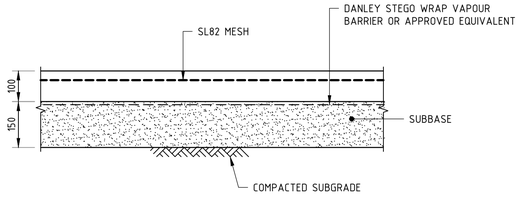


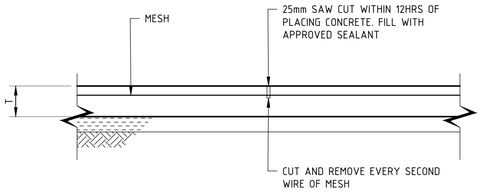
P1- TRAFFICABLE SLAB ON GROUND DETAIL

SCALE 1:10



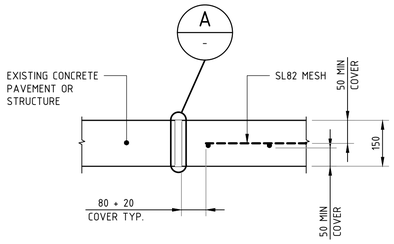
P2 - PEDESTRIAN SLAB ON GROUND DETAIL

SCALE 1:10



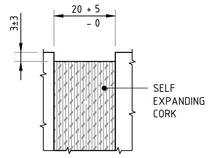
SLAB SAWN JOINT (SJ)

SCALE 1:10



ISOLATION JOINT (IJ)

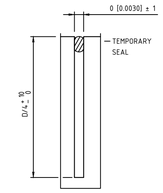
SCALE 1:10



DETAIL A

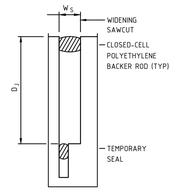
SCALE 1:10

TABLE 10.1: UNTIED JOINTS -SILICONE SEALANT DIMENSIONS							
Joint Sealant Label	Slab Length L or Width W (a) (m)	Design Joint Opening (mm)	Sealant Width W_s (mm)	Sealant Depth D_s (mm)	Recess R_s (mm)		Joint Depth D_J (mm)
					Contractions	Isolations and Expansions	
JS1	≤ 4.6	2.1	7 (+3, -0)	7 (+3, -0)	5 ± 3	8 ± 2	35 ± 5



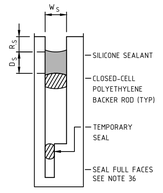
D1 - PRELIMINARY SEALING

SCALE 1:20



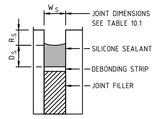
D2 - TEMPORARY SEALING

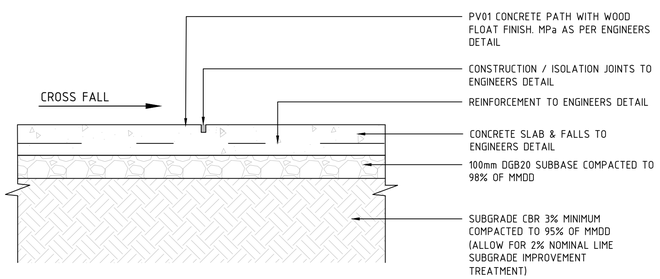
SCALE 1:20



D3 - PERMANENT SEALING

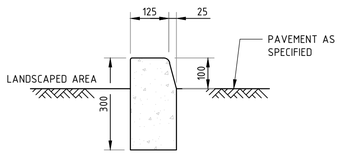
SCALE 1:20





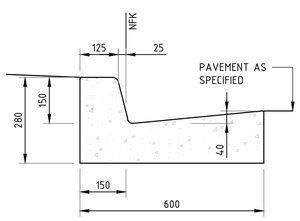
P1 & P2 - TYPICAL DETAIL - CONCRETE BUILDUP

SCALE 1:10



KERB ONLY (KO)

SCALE 1:10



KERB AND GUTTER (K&G)

SCALE 1:10

0 1 2 3 4 5 6m

SCALE 1:100 AT A1 SIZE

REV	DATE	DESCRIPTION	RVD
C01	28.02.2025	SCHEMATIC DESIGN SUBMISSION	SH
P01	21.02.2025	PRELIMINARY	SH

REVISIONS

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PROJECT: WILTON JUNCTION
PUBLIC SCHOOL

STATUS: SCHEMATIC DESIGN SUBMISSION
NOT TO BE USED FOR CONSTRUCTION

TITLE: PAVEMENT DETAILS

DRAWN	DESIGNED	CHECKED	APPROVED
JC	SM	SH	

DATUM	GRID	SCALE	DRAWING No.	REV.
AHD	GDA2020 MGA-56	AT A1 SIZE AS SHOWN	WJPS-BGEC-00-XX-DR-C-0520	C01

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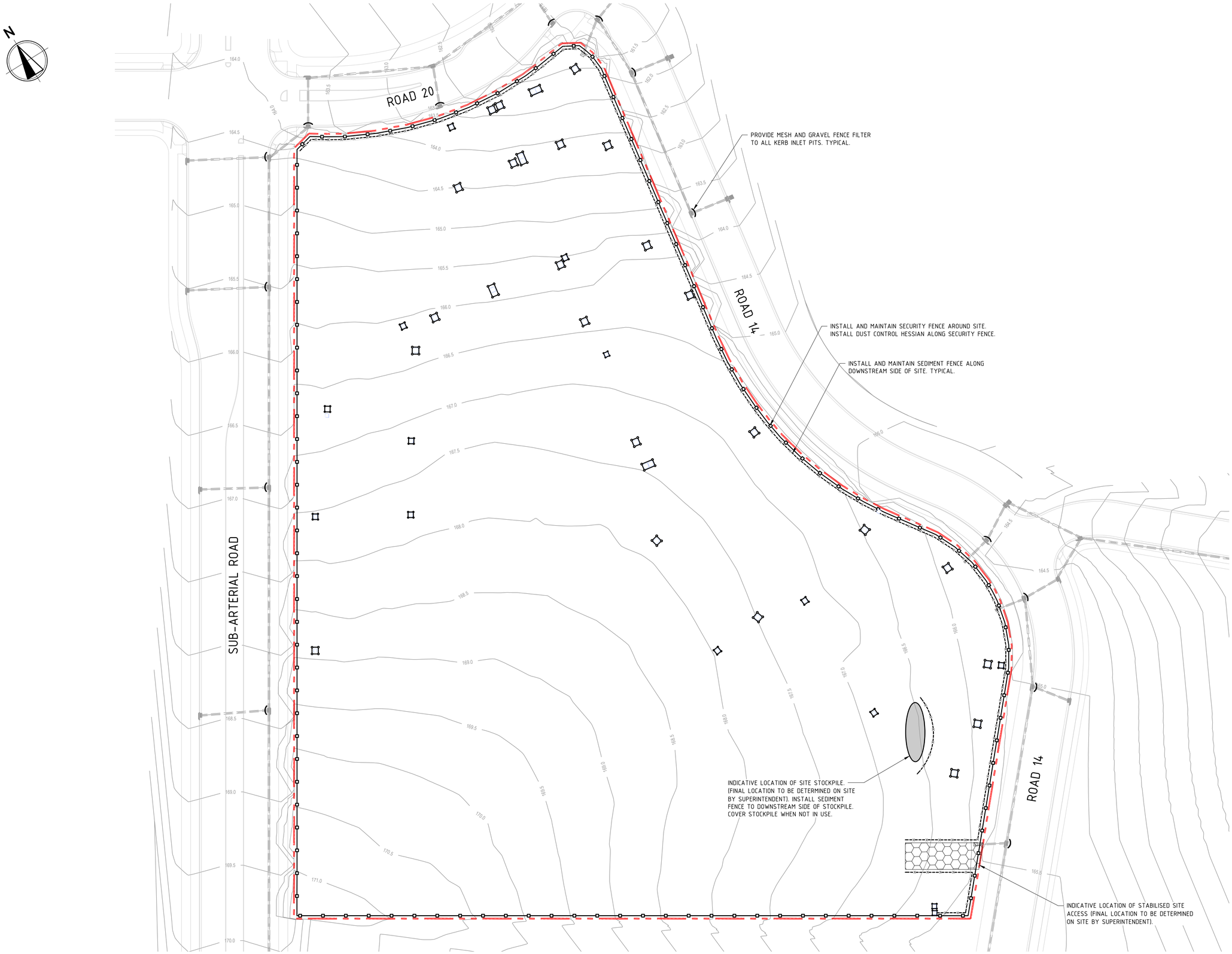

LEGEND

- SITE BOUNDARY
- SURVEY
- EXISTING SURFACE CONTOURS
- ROAD DRAINAGE NETWORK
- EXISTING INLET PITS
- CONSTRUCTION VEHICLE ENTRANCE/EXIT
- SEDIMENT FENCE
- SECURITY FENCE
- GEOTEXTILE INLET FILTER
- MESH & GRAVEL INLET FILTER
- SUGGESTED TEMPORARY STOCKPILE LOCATION

NOTES:

1. REFER DRAWING CI-710 FOR EROSION AND SEDIMENT CONTROL DETAILS.
2. CONTRACTOR TO ENSURE SITE DRAINAGE IS NOT ADVERSELY IMPACTED DURING CONSTRUCTION.
3. CONTRACTOR TO PROVIDE 'SANDBAG SEDIMENT TRAP' TO ALL PAVED/ROAD AREAS (BOTH PROPOSED AND EXISTING) IN ACCORDANCE WITH THE 'BLUE BOOK'.
4. CONTRACTOR TO PROVIDE 'GEOTEXTILE INLET FILTER TRAPS' TO ALL STORMWATER DRAINAGE INLETS (BOTH PROPOSED AND EXISTING) IN ACCORDANCE WITH THE 'BLUE BOOK'.
5. INSTALL AND MAINTAIN SANDBAG FILTERS ACROSS ALL PAVEMENT INTERFACES.

REV	DATE	DESCRIPTION	RVD
C01	28.02.2025	SCHEMATIC DESIGN SUBMISSION	SH
P02	21.02.2025	PRELIMINARY	SH
P01	31.01.2025	PRELIMINARY	SH

REVISIONS

REV	DATE	DESCRIPTION	RVD

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PROJECT: WILTON JUNCTION
PUBLIC SCHOOL

STATUS: SCHEMATIC DESIGN SUBMISSION
NOT TO BE USED FOR CONSTRUCTION

TITLE: EROSION AND SEDIMENT CONTROL PLAN

DRAWN	DESIGNED	CHECKED	APPROVED
JC	SM	SH	

DATUM	GRID	SCALE	AT	DRAWING No.	REV.
AHD	GDA2020 MGA-56	1:500	A1 SIZE	WJPS-BGEC-00-XX-DR-C-0700	C01

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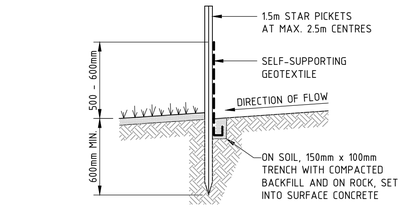
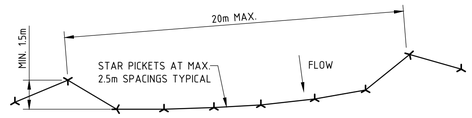
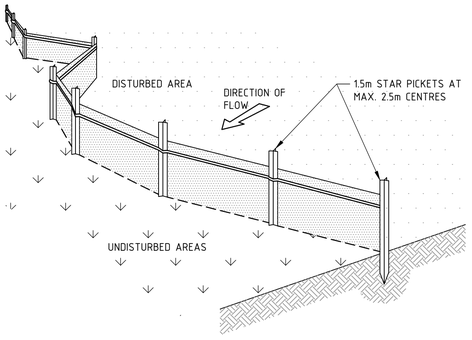


SECTION DETAIL



PLAN

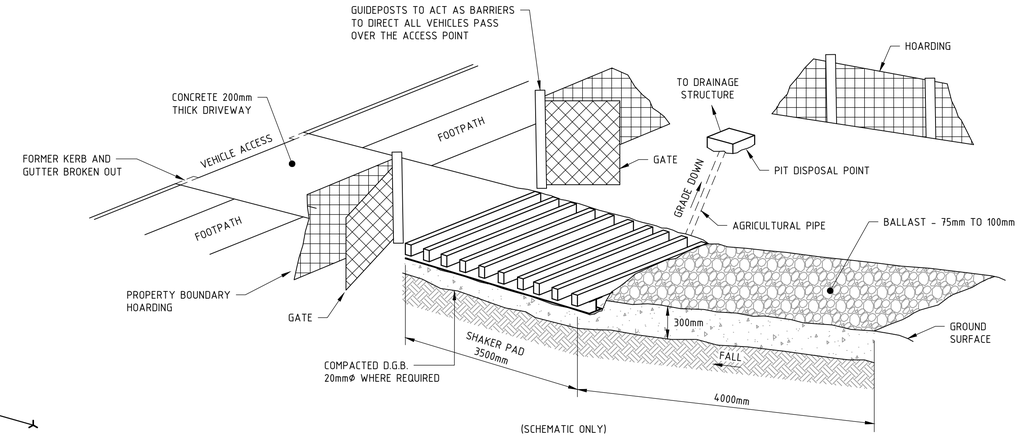


SEDIMENT FENCE CONSTRUCTION NOTES:

1. CONSTRUCT SEDIMENT FENCES AS CLOSE AS POSSIBLE TO BEING PARALLEL TO THE CONTOURS OF THE SITE, BUT WITH SMALL RETURNS AS SHOWN IN THE DRAWING TO LIMIT THE CATCHMENT AREA OF ANY ONE SECTION. THE CATCHMENT AREA SHOULD BE SMALL ENOUGH TO LIMIT WATER FLOW IF CONCENTRATED AT ONE POINT TO 50 LITERS PER SECOND IN THE DESIGN STORM EVENT, USUALLY THE 10-YEAR EVENT.
2. CUT A 150mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.
3. DRIVE 1.5m LONG STAR PICKETS INTO GROUND AT 2.5m INTERVALS (MAX.) AT THE DOWNSLOPE EDGE OF THE TRENCH. ENSURE ANY STAR PICKETS ARE FITTED WITH SAFETY CAPS.
4. FIX SELF-SUPPORTING GEOTEXTILE TO THE UPSLOPE SIDE OF THE POSTS ENSURING IT GOES TO THE BASE OF THE TRENCH. FIX THE GEOTEXTILE WITH WIRE TIES OR AS RECOMMENDED BY THE MANUFACTURER. ONLY USE GEOTEXTILE SPECIFICALLY PRODUCED FOR SEDIMENT FENCING. THE USE OF SHADE CLOTH FOR THIS PURPOSE IS NOT SATISFACTORY.
5. JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150mm OVERLAP.
6. BACKFILL THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE.

SEDIMENT FENCE

SCALE N.T.S



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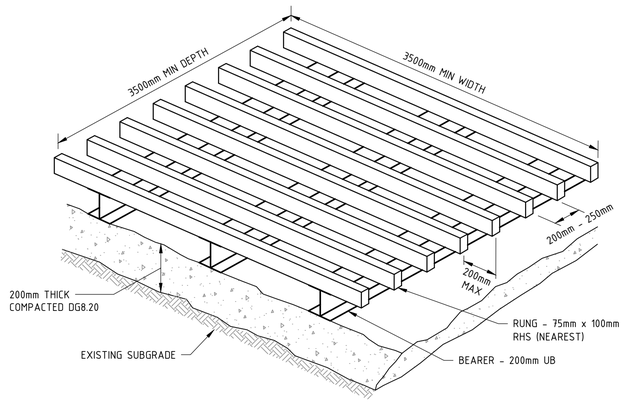
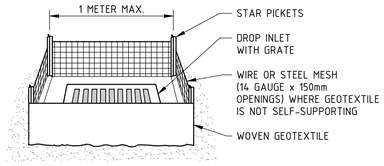
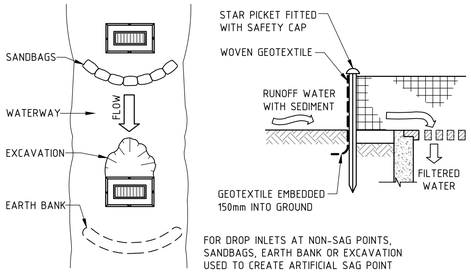


(SCHEMATIC ONLY)

STABILISED SITE ACCESS - SHAKER GRID

SCALE N.T.S





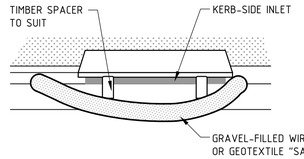
FOR DROP INLETS AT NON-SAG POINTS, SANDBAGS, EARTH BANK OR EXCAVATION USED TO CREATE ARTIFICIAL SAG POINT

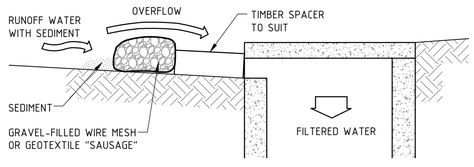
GEOTEXTILE INLET FILTER CONSTRUCTION NOTES:

1. FABRICATE A SEDIMENT BARRIER MADE FROM GEOTEXTILE OR STRAW BALES.
2. PICKET SPACING TO BE A MAXIMUM 1.0m CENTRES.
3. IN WATERWAYS, ARTIFICIAL SAG POINTS CAN BE CREATED WITH SANDBAGS OR EARTH BANKS AS SHOWN IN THE DRAWING.
4. DO NOT COVER THE INLET WITH GEOTEXTILES UNLESS THE DESIGN IS ADEQUATE TO ALLOW FOR ALL WATERS TO BYPASS IT.

GEOTEXTILE INLET FILTER

SCALE N.T.S



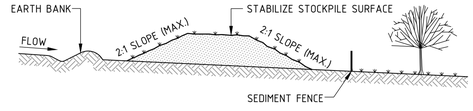


MESH & GRAVEL INLET FILTER CONSTRUCTION NOTES:

1. INSTALL FILTERS TO KERB INLETS ONLY AT SAG POINTS.
2. FABRICATE A SLEEVE MADE FROM GEOTEXTILE OR WIRE MESH LONGER THAN THE LENGTH OF THE INLET PIT AND FILL IT WITH 25mm TO 50mm GRAVEL.
3. FORM AN ELLIPTICAL CROSS-SECTION ABOUT 150mm HIGH x 400mm WIDE.
4. PLACE THE FILTER AT THE OPENING LEAVING AT LEAST A 100mm SPACE BETWEEN IT AND THE KERB INLET. MAINTAIN THE OPENING WITH SPACER BLOCKS.
5. FORM A SEAL WITH THE KERB TO PREVENT SEDIMENT BYPASSING THE FILTER.
6. SANDBAGS FILLED WITH GRAVEL CAN SUBSTITUTE FOR THE MESH OR GEOTEXTILE PROVIDING THEY ARE PLACED SO THAT THEY CAN FIRMLY ABUT EACH OTHER AND SEDIMENT-LADEN WATERS CANNOT PASS BETWEEN.

MESH & GRAVEL INLET FILTER

SCALE N.T.S



STOCKPILE CONSTRUCTION NOTES:

1. PLACE STOCKPILES MORE THAN 2 (PREFERABLY 5) METRES FROM EXISTING VEGETATION, CONCENTRATED WATER FLOW, ROADS AND HAZARD AREAS.
2. CONSTRUCT ON THE CONTOUR AS LOW, FLAT, ELONGATED MOUNDS.
3. WHERE THERE IS SUFFICIENT AREA, TOPSOIL STOCKPILES SHALL BE LESS THAN 2 METRES IN HEIGHT.
4. WHERE THEY ARE TO BE PLACE FOR MORE THAN 10 DAYS, STABILIZE FOLLOWING THE APPROVED ESCP OR SWMP TO REDUCE THE C-FACTOR TO LESS THAN 0.10.
5. CONSTRUCT EARTH BANKS ON THE UPSLOPE SIDE TO DIVERT WATER AROUND STOCKPILES AND SEDIMENT FENCES 1 TO 2 METRES DOWNSLOPE.

STOCKPILES

SCALE N.T.S

REV	DATE	DESCRIPTION	RVD
C01	28.02.2025	SCHEMATIC DESIGN SUBMISSION	SH
P02	21.02.2025	PRELIMINARY	SH
P01	31.01.2025	PRELIMINARY	SH

REVISIONS

REVISIONS

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BG&E

PROJECT

WILTON JUNCTION
PUBLIC SCHOOL

STATUS: SCHEMATIC DESIGN SUBMISSION
NOT TO BE USED FOR CONSTRUCTION

DRAWN	DESIGNED	CHECKED	APPROVED
JC	SM	SH	

DATUM	GRID	SCALE	AT	DRAWING No.	REV.
AHD	GDA2020 MGA-56	AS SHOWN	A1	WJPS-BGEC-00-XX-DR-C-0710	C01

TITLE: EROSION AND SEDIMENT CONTROL DETAILS

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