PART B – CITY OF ARMADALE

1. Declarations of Due Consideration

2. Disclosure of Interests

3. Form 1 DAP Applications

Nil

4. Form 2 DAP Applications

4.1 Lot 15 (No.651) Nicholson Road, Forrestdale - Approved Educational Establishment and Place of Worship – DAP/21/02046

5. Section 31 SAT Reconsiderations

Nil

Part B - Item 4.1 - LOT 15 NO. 651 NICHOLSON ROAD FORRESTDALE PROPOSED USE OF SOUTHERN DRIVEWAY FOR 'LEFT-OUT' VEHICLE EGRESS – APPROVED EDUCATIONAL ESTABLISHMENT AND PLACE OF WORSHIP

Form 2 – Responsible Authority Report
(Regulation 17)

DAP Name:	Metro Outer DAP	
Local Government Area:	City of Armadale	
Proposed Amendments:	New condition and advice notes to allow proposed use of southern driveway for 'left-out' vehicle egress.	
Applicant:	Urbanista Town Planning	
Owner:	Australian Islamic College (Perth) Inc	
Value of Amendment:	NA	
Responsible Authority:	City of Armadale	
Authorising Officer:	Executive Director Development Services	
LG Reference:	10.2025.262.1	
DAP File No:	DAP/21/02046	
Date of Original DAP decision:	16/12/21	
Application Received Date:	30/10/25	
Application Statutory Process Timeframe:	90 Days	
Attachment(s):	1. Location/Site Plan 2. Applicant Planning Report 3. Traffic Technical Note 4. Bushfire Management Plan 5. Copy of JDAP Approval dated 16/12/21	
Is the Responsible Authority Recommendation the same as the Officer Recommendation?	☒ Yes ☐ N/A	Complete Responsible Authority Recommendation section
	☐ No	Complete Responsible Authority and Officer Recommendation sections

Responsible Authority Recommendation

That the Metro Outer Development Assessment Panel resolves to:

1. **Accept** that the DAP Application reference DAP/21/02046 as detailed on the DAP Form 2 dated 28 August 2025 is appropriate for consideration in accordance with regulation 17 of the *Planning and Development (Development Assessment Panels) Regulations 2011*; and

2. **Modify** conditions and advice notes imposed on DAP Application reference DAP/21/02046 in the following manner:

New Condition:

29. Engineering drawings and specifications shall be submitted to and approved by the City of Armadale (Executive Director Technical Services) prior to the commencement of works, for road pavement modifications, solid median construction, lighting, drainage and line marking to effect safe and efficient egress to Nicholson Road from the southern driveway/crossover.

    Drawings and specifications are to be approved, and works completed, prior to the use of the southern driveway and crossover for left-out vehicle egress movements (unless for emergency purposes). The southern driveway/crossover is to be used for emergency access or left-out vehicle egress only.

New Advice Notes

I. In relation to the condition requiring submission of engineering drawings and specifications for Nicholson Road to enable left-out egress from the southern driveway, the applicant is advised that works within the road reserve may require approvals or permits from other road management authorities. The City of Armadale recommends that the applicant liaise with the City's Technical Services Department, Main Roads WA and Water Corporation during the design preparation phase.

J. The applicant is advised that the Water Corporation advises that any works within the Nicholson Road reserve that may impact Water Corporation assets, including the DN1220 and DN1370 Serpentine Trunk Mains, require a formal *Approval of Works* from Water Corporation prior to commencement. Details on this process can be found at: https://www.watercorporation.com.au/home/builders-and-developers/working-near-our-assets/approval-for-works.

All other conditions and requirements detailed on the previous approval dated 16/12/21 shall remain unless altered by this or previous Form 2 applications.

Details: outline of development application

Region Scheme	Metropolitan Region Scheme
Region Scheme Zone/Reserve	Rural
Local Planning Scheme	City of Armadale Town Planning Scheme No. 4
Local Planning Scheme Zone/Reserve	Rural Living 4
Structure Plan/Precinct Plan	NA
Structure Plan/Precinct Plan Land Use Designation	NA
Use Class (proposed) and permissibility:	Educational Establishment - A Place of Worship - A
Lot Size:	16.7ha
Existing Land Use:	Educational Establishment and Place of Worship
State Heritage Register	No
Local Heritage	☒ N/A ☐ Heritage List

	☐ Heritage Area
Design Review	☒ N/A ☐ Local Design Review Panel ☐ State Design Review Panel ☐ Other
Bushfire Prone Area	Yes
Swan River Trust Area	No
Region Scheme	Metropolitan Region Scheme
Region Scheme Zone/Reserve	Rural
Local Planning Scheme	City of Armadale Town Planning Scheme No. 4

PROPOSAL:

The applicant proposes to amend existing development approval DAP/21/02046 for an Educational Establishment and Place of Worship at Lot 15 (No. 651) Nicholson Road, Forrestdale (site) by modifying the southern driveway to Nicholson Road from "emergency access only" in the original approval granted by the Metropolitan Outer Development Assessment Panel (DAP) to left-out only vehicle egress movements during school traffic peak times.

The driveway, shown on the attached plan, currently consists of a dual width crossover connecting to internal access ways on the perimeter of the campus. The access ways connect with campus facilities, parking areas and driveways to Oxley Road.

The southern driveway was originally proposed and approved to facilitate emergency bushfire access and egress from the site, in accordance with the policy measures of State Planning Policy 3.7 Bushfire and its associated guidelines. As the driveway facilitated emergency access/egress only, the driveway and the adjacent portion of Nicholson Road were not designed or constructed to an engineering standard that allows safe and efficient vehicle access or egress at all times.

The amendment the subject of this Form 2 application focuses on site-specific egress arrangements to address traffic impacts arising from school operations. Amended access arrangements require an amendment to the existing development approval, and the applicant has sought this determination from the DAP.

This Form 2 application originally proposed amendments to development approval DAP/21/02046 that were not considered to fall within the scope of a Form 2 application to amend a development approval, including:

- Request to modify speed limits and parking restrictions on Nicholson Road; and
- Request to modify the existing constructed full movement Nicholson Road/Oxley Road (upgraded as part of condition clearances for the earlier development approval) to left in, left out and right in movement only. It was also noted that this proposal would restrict bushfire emergency access and egress options to all property owners on Oxley Road.

The applicant subsequently amended its Form 2 application accordingly.

BACKGROUND:

An application for development approval for a private Educational Establishment (1,000 students) and Place of Worship (500 persons) at the site was approved by the DAP on 1 December 2021 (DAP/21/02046).

Since the approval, the kindergarten, pre-primary and primary classrooms, oval, and car parking areas have been constructed and are operational. The high school buildings, the administration building, library, and specialty classrooms are under construction with a targeted commencement date for the 2026 school year (as at the date of this responsible authority report).

The site shares a common boundary with two road reserves, namely Nicholson Road and Oxley Road. These roads intersect at the site's north western corner. The road reserves have the following notable features:

- Nicholson Road (western site boundary):
    - District Distributor A Road in Main Roads WA (MRWA) road hierarchy, providing northbound travel to the suburbs of Piara Waters, Harrisdale and Canning Vale, and southbound travel toward the suburbs of Oakford and Byford.
    - Other Regional Road' Reservation under the Metropolitan Region Scheme (MRS).
    - Part of the state's heavy vehicle (RAV 4) network (MRWA).
    - Contains the Water Corporation's Serpentine Trunk Main (constructed to rural standard) beneath the western verge.
    - Access/egress to/from the site to Nicholson Road is currently limited to emergency access only from the southern driveway.
    - The WAPC's *Perth and Peel @ 3.5 million* identifies Nicholson Road as a strategic metropolitan transport corridor with a primary regional movement function, where access management and safety are key considerations.
- Oxley Road (northern site boundary):
    - A local access (no through) road under the control of the City of Armadale.
    - Access/egress to/from the site to Oxley Road is facilitated by two crossovers to Oxley Road.

Background to Previous DAP Considerations

DAP/21/02046, as proposed, involved the assessment of significant environmental, traffic and servicing considerations given the rural context, proximity to Bush Forever sites, wetland buffers and reliance on on-site effluent disposal systems.

The Department of Planning, Lands and Heritage (DPLH) previously raised three core matters during referral and assessment of the original application for development approval:

1. Intersection Performance and Safety
    - Supported channelised deceleration lanes at Nicholson Road / Oxley Road.
    - Requested SIDRA analysis demonstrating adequacy of intersection performance for at least a 10-year horizon.

- Identified Nicholson Road as a RAV 4 route requiring strict access control.

2. Access to Nicholson Road
   - Did not support general access to Nicholson Road due to its Other Regional Road (ORR) function and 'restricted access vehicle' (RAV) classification.
   - Later clarified that emergency-only access was acceptable.

3. Consistency with MRS
   - Dual determination was not required, as the land uses could be considered under the City's TPS.

DPLH otherwise did not object to the development subject to the above matters being addressed. These matters primarily related to the original approval and are largely resolved or outside the scope of the current Form 2 amendment.

The original responsible authority report recommended deferral, primarily due to outstanding environmental information, landscaping revisions and building height concerns. The DAP ultimately approved the development, subject to conditions, including upgrades to the Nicholson Road / Oxley Road intersection. The plans approved by the DAP did not detail the design of the intersection upgrade triggered by the proposed development. Rather, the scope of works and final intersection arrangement was to be addressed separately through detailed engineering design as a condition of development approval.

A previous Form 2 application was also determined by the DAP on 17 July 2023 and related solely to the modification of Condition 27 concerning public art contributions under the City's Local Planning Policy PLN 3.12 – Percent for Public Art. That application is not relevant to the current Form 2, which is limited to access arrangements onto Nicholson Road, and it does not inform or affect this application.

Background to Traffic Congestion Matters

The school has experienced enrolment growth since opening in February 2024, and is expected to reach full capacity in coming years. However, traffic movement for vehicles exiting the site has already become a significant issue, with the school reporting egress delays on site for up to two hours and unsafe driver behaviour.

Much of the traffic congestion experienced is a result of the following features:

- The school's catchment is predominantly located in residential suburbs north of the campus and the campus is located within a rural area, with limited to no public transport.
- The campus is located on the eastern side of Nicholson Road.
- In the afternoon peak period (end of school day), exiting school traffic seeking to travel north must make a right turn from Oxley Road onto Nicholson Road.
- Nicholson Road experiences peak southbound traffic in the afternoon period.
- This regional traffic pattern leads to lengthy queuing distances and prolonged wait times for traffic exiting the school campus and turning north onto Nicholson Road.

Traffic congestion was also exacerbated by delays in delivery of the Oxley Road and Nicholson Road intersection by the school's contractors, leading to significant community interest and prolonged consultation between the applicant, the school,

members of the community, the City and State Government agencies. The City has advocated to the school over a number of years that these works should have been completed before the school opened as required by the approvals. This delay of the works has caused additional traffic and safety concerns.

Servicing and Oxley Road/Nicholson Road Intersection Upgrade Matters

A key issue arising after determination and implementation of DAP/21/02046 was the applicant's decision to commence school operations prior to completion of required Nicholson Road intersection upgrades.

The contributing factor to the delay in intersection works completion related to Water Corporation infrastructure constraints and upgrade works sequencing, due to the existence of the Serpentine Trunk Main (constructed to a rural standard) in the western Nicholson Road verge.

The above decisions/delays did not assist in the proper management of school traffic and safety at peak periods. It should be noted that the upgrade works are now completed.

Further to the above, in assessing the applicant's traffic assumptions, it is relevant to note the City's current position regarding planned upgrades to the surrounding road network and the likely delivery timeframe of those works. The City of Armadale is currently undertaking detailed investigation and design work for the upgrade of the Nicholson Road and Rowley Road intersection. The upgrade was originally proposed to be partially funded through the State Government's Black Spot Program; however, cost estimates have since determined that the project exceeds the available funding under that program. The City is therefore actively pursuing alternative funding opportunities in liaison with Main Roads WA and the Shire of Serpentine-Jarrahdale. Based on advice from the City's Technical Services, it is estimated that the upgrade is unlikely to be delivered for at least four (4) years, if appropriate funding sources are secured.

City Advocacy Outside the Planning Framework

Since traffic management issues became apparent, the City has actively engaged with relevant stakeholders to manage traffic and safety outcomes associated with the site. This has included advocacy to MRWA and Members of Parliament for a reduction in speed limits along Nicholson Road and the introduction of a 40km/h school zone, including the lodgement of applications to MRWA.

The City has also requested that the applicant implement measures to manage traffic congestion on site and reduce local amenity impacts, including:

- Staggered school start and finish times to spread peak drop-off and pick-up demand;
- Provision of supervised early drop-off and later pick-up arrangements;
- Supervised "Kiss and Ride" parking and active staff management of vehicle movements during peak periods;
- Dispersing parking and pick-up activity across the site to avoid concentration in northern parking areas near Oxley Road; and
- Clear and ongoing communication to parents on safe and efficient drop-off and pick-up procedures.

The above actions are supplementary to the statutory planning and assessment process.

Legislation and Policy:

Legislation

Planning and Development Act 2005
Planning and Development (Local Planning Schemes) Regulations 2015
City of Armadale Town Planning Scheme No. 4

CONSULTATION:

Public Consultation

Formal community consultation was not undertaken for this Form 2 application, as the proposed left-out access represents a minor modification to an existing approved development and does not trigger any advertising requirements under the City's Town Planning Scheme No.4 (TPS No.4) or adopted planning policies.

Notwithstanding this, the City received a number of correspondences from parents and local residents associated with the school, expressing support for the proposed amendment.

Referrals/consultation with Government/Service Agencies

Department of Planning Lands and Heritage (DPLH):

The proposed amendment was referred to DPLH, who advised that it had no objection to the proposed access modifications subject to the following recommendations:

1. *Nicholson Road forms part of the State's heavy vehicle (RAV 4) network in the subject location. As such it is recommended that the proposal be referred to Main Roads, Heavy Vehicle Services (if required); and*

2. *A previous Transport Impact Assessment supporting the school (S 2.14) recommended 100 metre channelised right and left-turning deceleration lanes to upgrade the intersection of Nicholson and Oxley Road. The Department previously indicated support for these upgrades in accordance with Austroads and Main Roads WA standards (referral correspondence dated 24 August 2021).*

Main Roads WA:

The proposed amendment was also referred to MRWA, given Nicholson Road's status on the heavy vehicle freight network and MRWA's previous involvement in speed limit decisions for this section of Nicholson Road.

MRWA provided the following referral response:

a) *The proposed kerbing on Nicholson Rd is noted as carrying inherent safety risks. Back-to-back kerbing is generally not recommended on high-speed*

roads with a high proportion of heavy vehicles. Please be aware that an errant vehicle striking the kerb at higher speeds may pose significant hazards.

b) A speed zone change request is to be submitted to Main Roads for review and approval, following assessment by the local government.

Regarding MRWA Point B (speed zone change request) the following comments are provided:

- The City has previously requested a reduction in the posted speed limit and the introduction of a school zone on Nicholson Road, including formal advocacy undertaken in 2024 and 2025 in response to safety concerns associated with school pick-up and drop-off activity.
- This request was supported by observed traffic conditions, community concern, and the proximity of the school campus to Nicholson Road.
- Main Roads WA previously advised that a school zone was not supported on Nicholson Road on the basis that the road functions as a regional distributor and that student access to the site is primarily via private vehicle rather than direct pedestrian frontage.
- Notwithstanding this advice, the City has referred the historical correspondence back to MRWA as part of the current referral to demonstrate that the matter has already been considered and a review sought. The City also requested that the proposed access changes and updated traffic information be reassessed.

A definitive response from MRWA to the City's latest submission regarding Point B above has not been received as at the date of this responsible authority report.

Water Corporation:

The application was referred to Water Corporation due to the presence of the critical Serpentine Trunk (water) Main beneath the Nicholson Road western verge. Water Corporation advised that, in accordance with the *Water Services Act 2012*, any works undertaken near its assets will require the applicant to obtain an *Approval of Works* prior to commencement of works. This requirement is addressed in a recommended advice note.

Internal referrals/consultation with City Business Units

The application was referred to internal City business units for review. The City's Technical Services have reviewed the proposed left-out access from the southern driveway onto Nicholson Road and provided advice regarding implementation and safety, including the following key points:

- Median Modifications: Modifications to the median (i.e. solid median construction) immediately adjacent to the southern driveway are required to allow safe left-out egress movements and prevent right-out movements.
- Access Feasibility: Driver compliance with a left-turn restriction and the current speed environment are critical considerations for safe operation.
- Road Infrastructure Considerations: Broader works, such as wider intersection upgrades, speed limit adjustments, or other traffic management measures along Nicholson Road, are outside the control of the applicant but provide important context for safe implementation.

- Coordination with Authorities: Any works within the road reserve must be undertaken in consultation with and to the satisfaction of the relevant authorities, including the City's Technical Services, Water Corporation, and Main Roads WA, as appropriate.

The City's Technical Services has advised that the design and construction of the required modifications to enable left-out movements onto Nicholson Road (including solid median works, pavement, lighting and infrastructure relocation or management) will involve costs. The proponent will be responsible for these costs.

The City's Technical Services advice forms the basis for recommended conditions and advice notes to ensure that left-out access can be implemented safely, and in accordance with engineering standards.

PLANNING ASSESSMENT:

The City's planning assessment is confined solely to the proposed modification of the existing southern access to allow left-out only egress onto Nicholson Road. No other changes to the approved Educational Establishment or Place of Worship are proposed.

As outlined in the Technical Services summary, several engineering and operational considerations have been identified, and these technical matters inform the assessment of the access modification. Median works directly adjacent to the driveway are considered within the scope of this determination, as they are necessary for the safe operation of the proposed left-out egress and essential consideration if the DAP is to approve a modification of access control from 'Emergency Access Only' to include left-out vehicle egress.

All other external road upgrades, intersection works, and speed-related measures fall outside the planning control of the responsible authority and cannot be determined under a planning approval. Such matters remain the responsibility of Main Roads WA, Water Corporation, and/or the City through respective engineering and design approval processes under the relevant legislation.

The applicant's traffic engineering report and planning report include alternative routes for parents driving in a northern direction after school drop-offs and pick-ups. Unfortunately, the reports do not analyse or provide broad data on the collection of suburbs where students live and commute from, which would assist with understanding the effectiveness of these alternative routes. In addition, the traffic engineering report does not provide information on the effectiveness of these routes during peak times.

The left-out movement appears most beneficial for drivers heading south, east or west, depending on their destination. The alternative route, using Rowley Road and Blair Road to return north on Nicholson Road, is unlikely to be used by parents given the significant distance and road environments/intersections. It is more likely that some drivers will attempt U turns, use other driveways or similar in order to avoid travelling a long distance for each school drop off or pick up.

The planning assessment is therefore limited to evaluating whether the proposed left-out access is acceptable from a land-use, site layout, and operational planning

perspective. In this regard, the proposed modification is supported as it provides a controlled egress point that improves the functionality of the Educational Establishment without adversely impacting the internal site layout. In addition, the proposal is not considered to be inconsistent with the broader planning framework.

Conditions and advice notes are recommended to ensure the following:

- Any required road upgrade modifications or works within the road reserve are to be implemented to relevant traffic engineering specifications/standards, and to the satisfaction of the City;
- The applicant liaises with relevant authorities, including Main Roads WA and Water Corporation, to obtain any approvals necessary for works in the Nicholson Road reserve; and
- The access cannot be utilised until design and construction are complete.

Accordingly, the City recommends that the DAP approve the application subject to the new condition and advice notes recommended within this report, which ensure the technical concerns raised are appropriately addressed prior to the commencement of southern driveway use.

CONCLUSION:

The proposed amendment to allow left-out only movements from the southern access onto Nicholson Road is a site-specific traffic management measure intended to address school-related congestion.

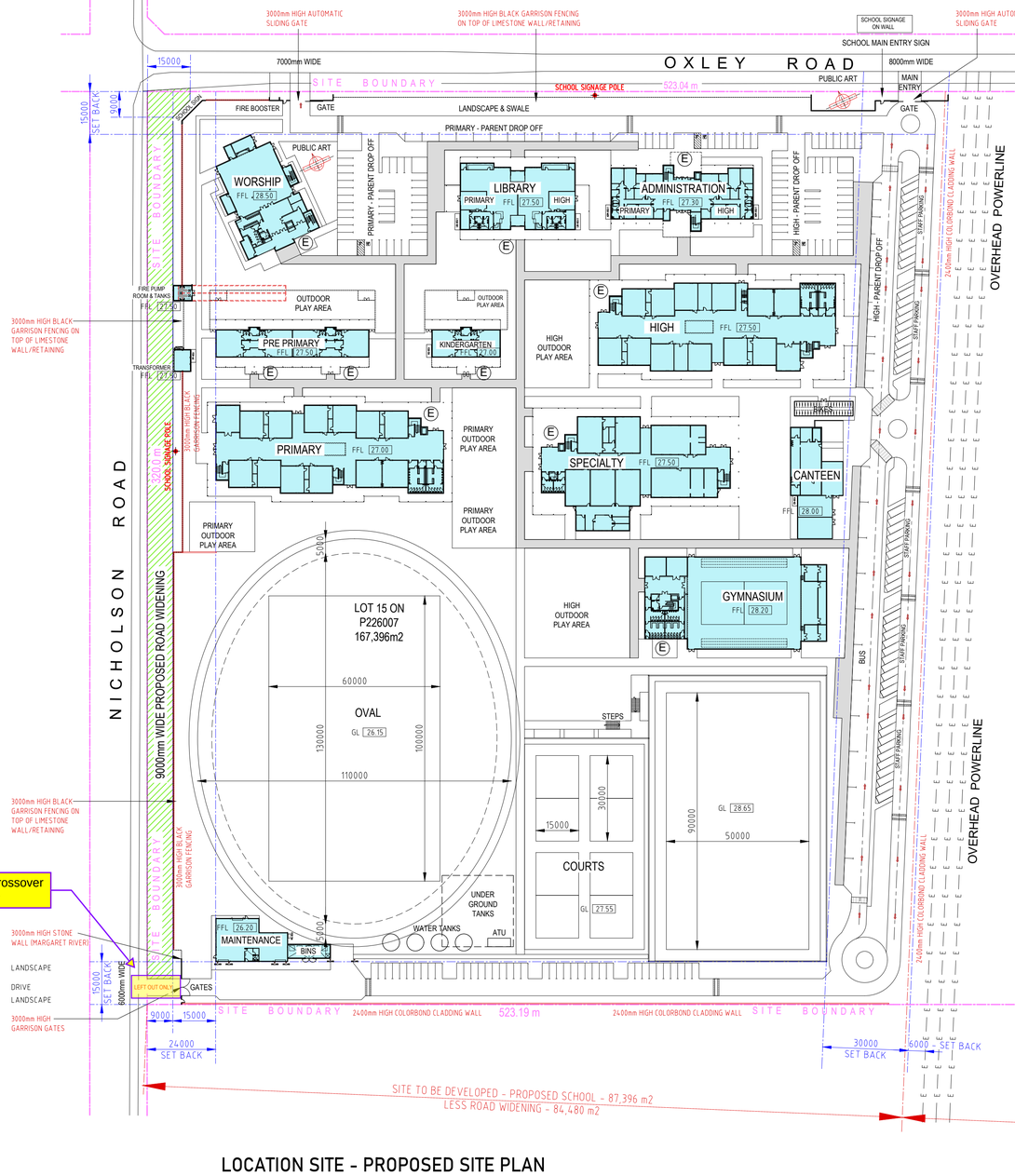
The advice of the City's Technical Services, DPLH, MRWA and Water Corporation has been considered in application assessment and informs the recommended conditions and advice notes. The City's Technical Services has identified that median modifications immediately adjacent to the southern driveway are required to safely implement the access, and these works can be addressed through conditions of approval, while other external road upgrades remain under the control of the relevant road authorities.

In accordance the above, the proposed left-out egress is considered acceptable from a planning perspective, subject to the recommended new condition and advice notes.

DEVELOPMENT ASSESSMENT PANEL

APPROVED

10-Dec-2021



BUILDING CONSTRUCTION OCCUPANCY STAGING

STAGE 1 - 2023 SCHOOL YEAR
CONSTRUCTION 2022

- PRE-PRIMARY
- PRIMARY CLASSROOM
- MAINTENANCE
- TRANSFORMER
- FIRE PUMP ROOM AND TANKS

STAGE 2 - 2025 SCHOOL YEAR
CONSTRUCTION 2024

- KINDERGARTEN
- ADMINISTRATION
- LIBRARY

STAGE 3 - T.B.C

SITE DESIGN DATA

SITE AREA	167,396 m2
LESS ROAD WIDENING	164,480 m2
SITE TO BE DEVELOPED - PROPOSED SCHOOL	
PROPOSED SCHOOL	87,396 m2 (52.5%)
LESS ROAD WIDENING	84,480 m2 (51.3%)
EXISTING SITE VEGETATION TO REMAIN	80,000 m2 (478%)

ROAD RESERVE

COVERED WALKWAY

(E) MAIN ENTRY

LOCATION SITE - PROPOSED SITE PLAN
SCALE 1:1000 @A1

A I C

FORRESTDALE

PROPOSED MASTER PLAN

NORTH

MAROCCHI engineering group
Suite 3, 158 Newcastle Street, Perth W.A. 6000
Tel. (08) 9328 5700

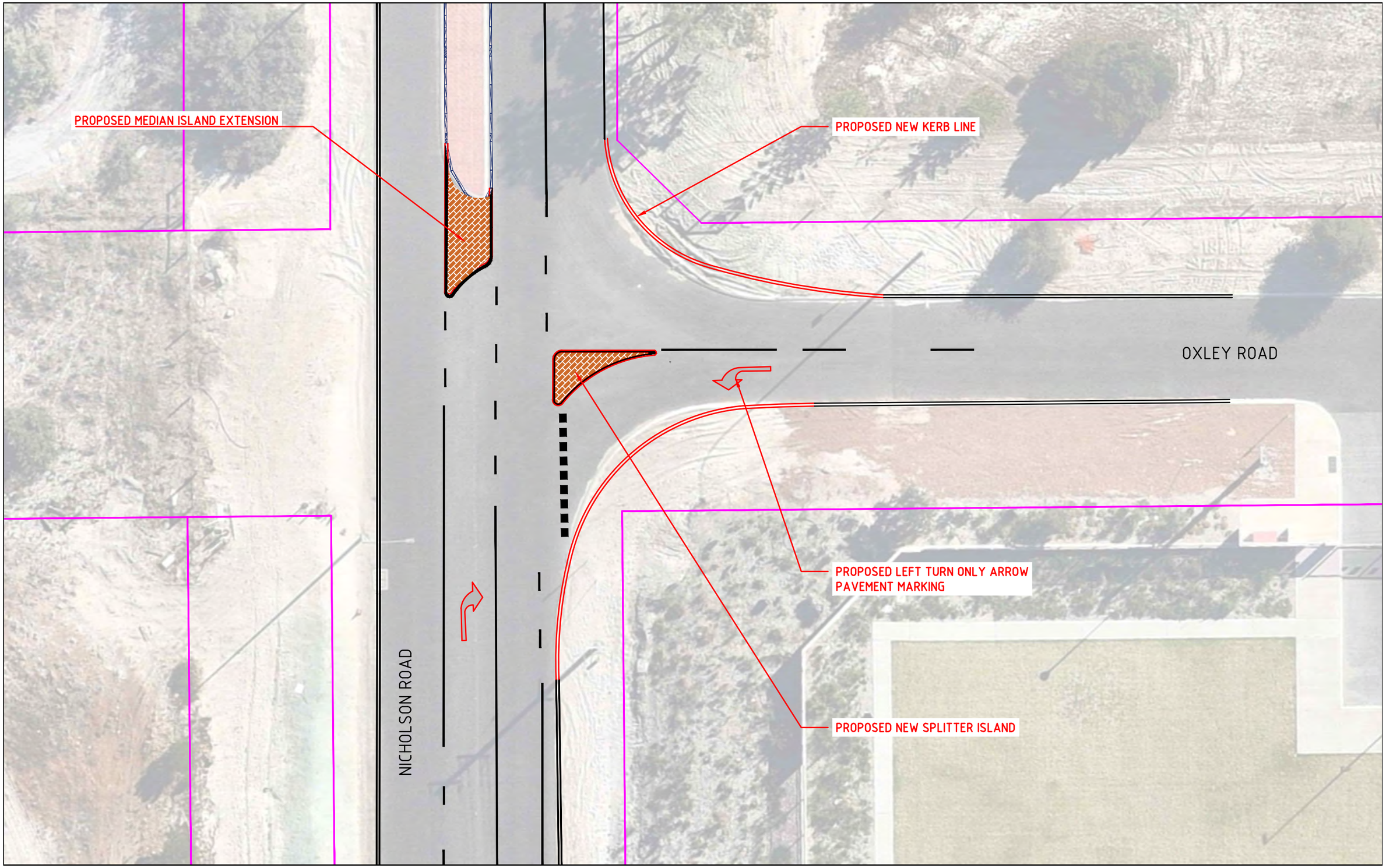
PROJECT
AUSTRALIAN ISLAMIC COLLEGE
LOT 15 (651) NICHOLSON ROAD
FORRESTDALE

SHEET
LOCATION SITE PLAN
PROPOSED SITE PLAN

DRAWN	PH	SCALE	1:1000 @ A1 1:2000 @ A3
DESIGNED	NC	DRG No	20-371-DA01-4
CHECKED	NC	REV	D

REV	DATE	CHKD	DESCRIPTION
D	03-11-2021	NS	COUNCIL DA ISSUE
B	22-10-2021	NS	COUNCIL DA ISSUE
A	28-06-2021	NS	COUNCIL DA ISSUE

20-371-DA01-4 SITE PROP.DWG 03.11.2021 12:36 PM



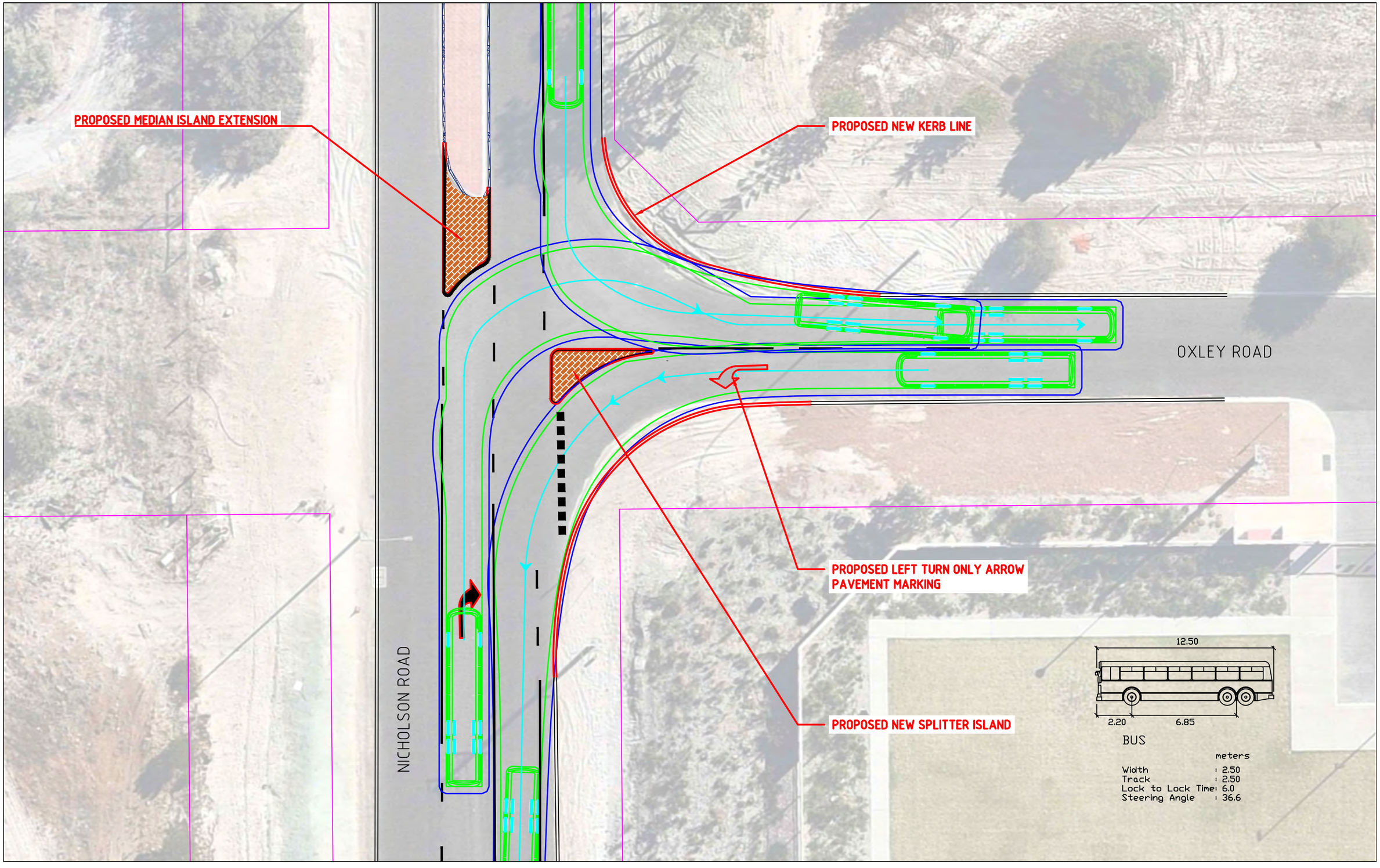
AIC Forrestdale

Proposed modified intersection concept design (Location 1)

t25.119.sk01a

13/08/2025

Scale: 1:250 @ A3



AIC Forrestdale

Austroads 2023: 12.5m Bus

12.5m Bus left in/ left out/ right in movements

And proposed modified intersection concept design (Location 1)

LEGEND

Vehicle Body

Wheel Path

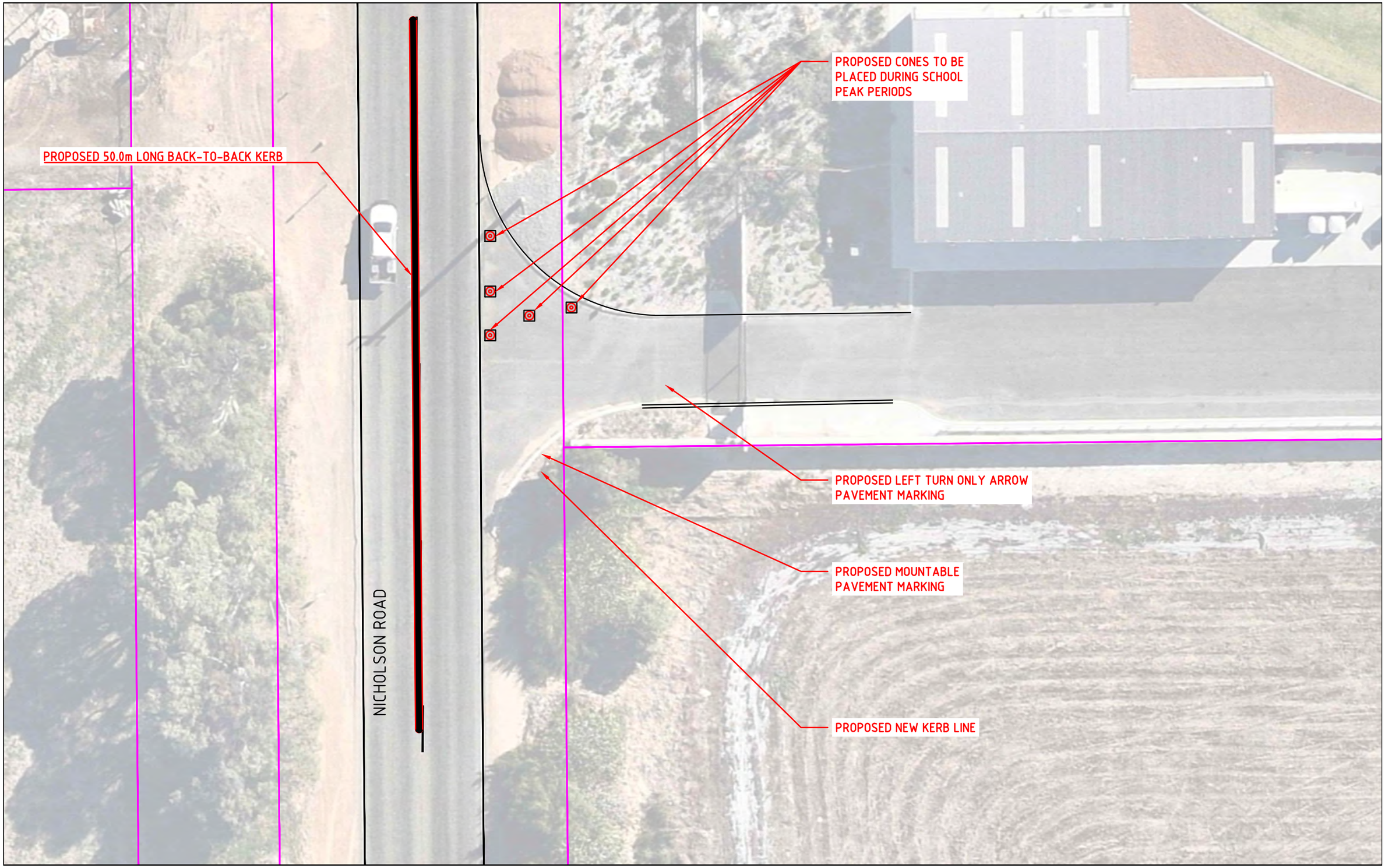
500mm Clearance

t25.119.sk01

11/08/2025

Scale: 1:250 @ A3

transcore



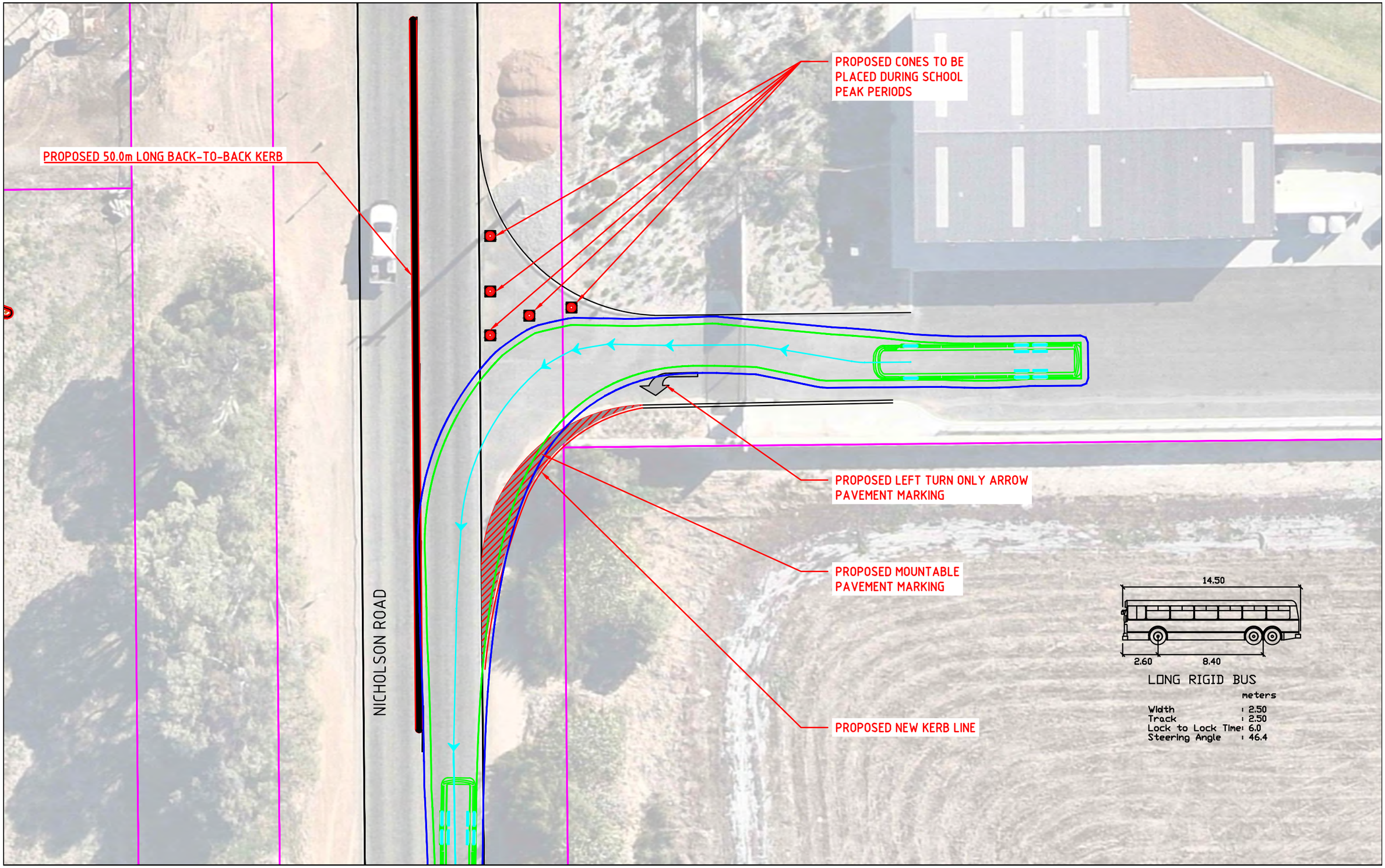
AIC Forrestdale

Proposed modified crossover concept design (Location 2)

t25.119.sk02aa

13/08/2025

Scale: 1:250 @ A3



AIC Forrestdale

Austroads 2023: 12.5m Bus

12.5m Bus left out movement

And proposed modified crossover concept design (Location 2 - Option 1)

LEGEND

Vehicle Body

Wheel Path

500mm Clearance

t25.119.sk02a

13/08/2025

Scale: 1:250 @ A3

transcore

22 September 2025

City of Armadale
7 Orchard Avenue
ARMADALE WA 6112

Dear Sir/Madam,

NO. 651 (LOT 15) NICHOLSON ROAD, FORRESTDALE

AMENDMENT TO DEVELOPMENT APPROVAL DAP/21/02046

Urbanista Town Planning have been engaged by the property owners of the subject site to prepare and submit an application for an amendment to Development Approval DAP/21/02046 to amend the approved access points to the existing school.

BACKGROUND

The development application to construct an Educational Establishment and Place of Worship was approved by the Metro Outer Joint Development Assessment Panel on 1 December 2021. Since such time, the overall approved development has substantially commenced works, with the kindergarten, pre-primary classrooms, primary school classrooms, oval and car parking areas having been constructed and are currently operational.

The high school buildings, the administration building, library and other speciality classrooms are currently under construction, with the intention for these to open for the 2026 school year.

Since the opening of the school in February 2024, the school has seen a positive increase in the number of students and are the school is expected to meet their capacity in the upcoming years.

However, there have unfortunately been issues with traffic exiting the school grounds. Urbanista have been advised that it can take up to two hours for parents and children to clear the school grounds and frustrations and tensions are rising with parents, which is creating a hostile environment.



Figure 1: Most recent aerial image of school site taken on 19 April 2025.

EXISITNG SITUATION

As illustrated in Figure 2, the approved site plan illustrates the main access points to the site and demonstrates how movements in, out and around the site works.

As indicated in green, the site currently has three entry and/or exit points to the site. The main entry and exit point to the site is located off Oxley Road on the eastern side of the school and this is also the only entry point to the school. A second access point is also located off Oxley Road near the Nicholson Road intersection, however this is exit only. An access point is also located on Nicholson Road on the south side of the oval, however this access point is for emergencies only.

In terms of the movement around the site, the red arrows represent the movements of the primary parents and the yellow represents the movements of the secondary parents.

In an ideal world this situation would largely be efficient, however there are several factors that perhaps were not considered at the time of the approval.

As illustrated by the blue arrows, every attendee of the school exits the site from Oxley and travels west towards Nicholson Road as Oxley Road terminates approximately 350m east of the school. Drivers either then have the option of turning left (southbound) or right (northbound).

As discussed in Transcore's report, they observed traffic movements on various days and noted the following:

- Vehicles on Oxley Road approach to the intersection experiencing long delays, particularly during the afternoon peak;
- The left turning traffic from Oxley Road is blocked by the queue for right turning traffic;
- The long delays are caused by right turning traffic from Oxley Road;
- The queue back from the intersection extends into the site and along Oxley Road;
- School staff on hand managing traffic activity; however, extensive delays and queues still occur;
- Right-turning movements into Oxley Road are working reasonably well with acceptable delays and typically only one vehicle in queue in the critical afternoon peak;
- The existing 80km/h speed limit including proportion of heavy vehicles in total traffic mix on Nicholson Road contributes to reluctance of parents to take available gaps in traffic stream to exit Oxley Road resulting in additional delays;
- Driver frustration also results in some parents opting out of initial right-turn movement and taking left-turn movements or performing more risky egress movements out of Oxley Road. A number of near misses were observed during the afternoon peak school hour period; and,
- Students being picked up along Nicholson Road school frontage during the afternoon peak school hour period although no formal facilities are available along Nicholson Road. This situation presents a significant safety risk for both students and parents.

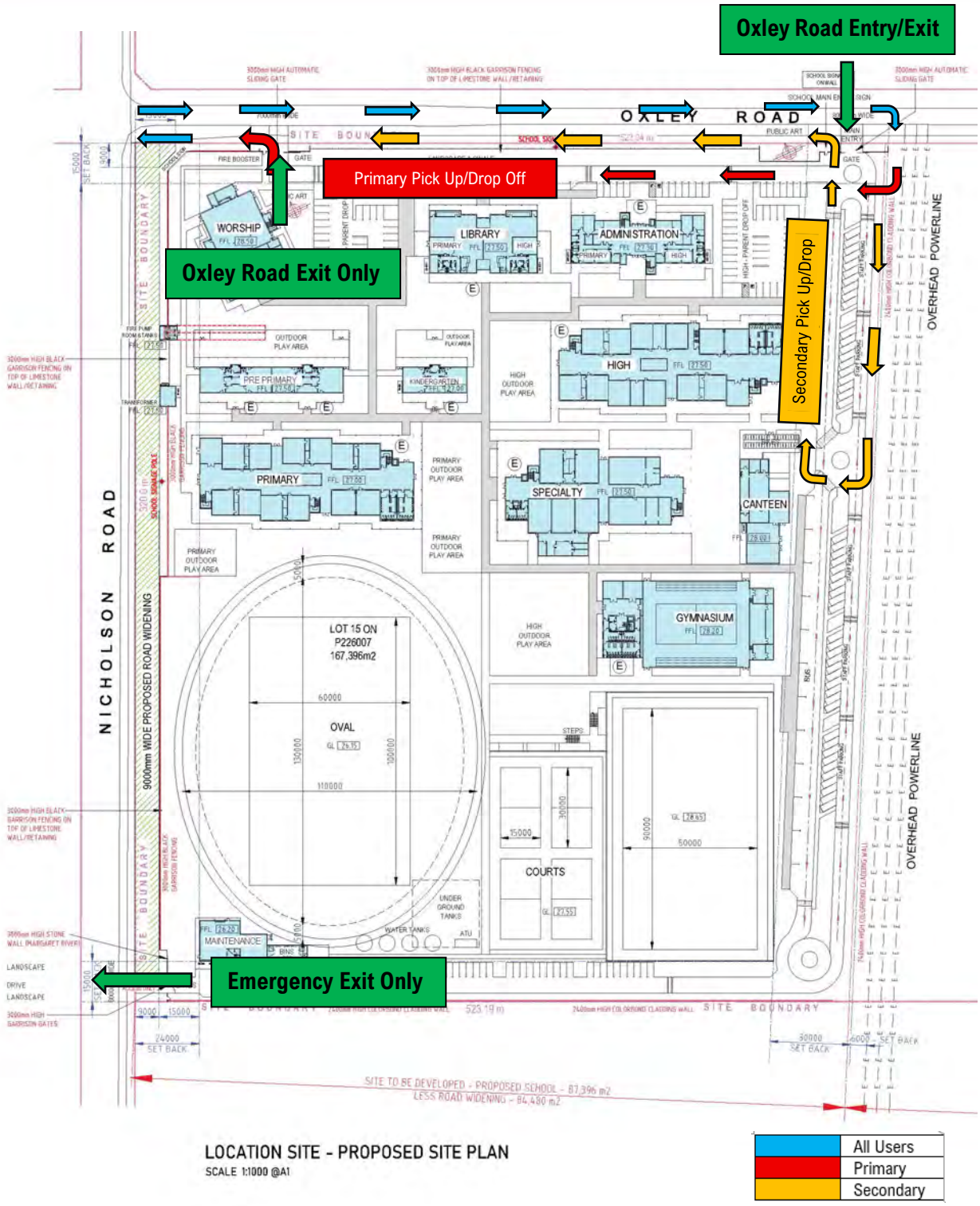


Figure 2: Site Plan of Traffic Movements

PROPOSED TRAFFIC IMPROVEMENT MEASURES

Given the issues associated with the movement of traffic from the school, AIC have engaged Transcore to review the Traffic Impact Assessment that formed part of the original development application and recommend options to improve the current situation.

Transcore proposes a suite of practical operational measures which, if implemented, are expected to improve the existing risk profile and traffic flow efficiency associated with the school morning drop-offs and afternoon pick-ups. These proposed measures are:

1. ***Opening the existing school's emergency-only access point on Nicholson Road to parents during the two peak school activity periods exclusively and operating the access in left-turn-out format only;***

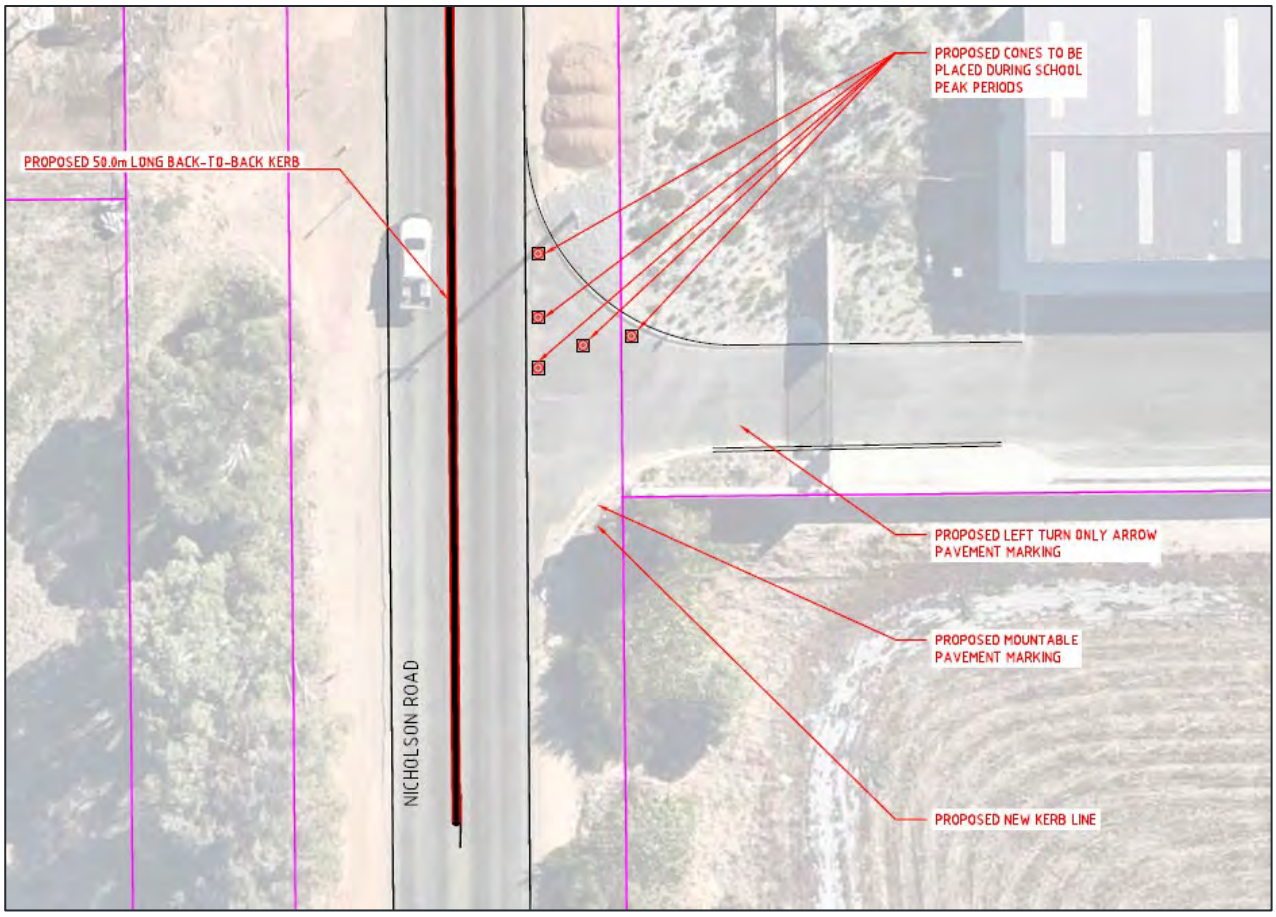


Figure 3: Proposed Amendments to Nicholson Road Access Point

This will create an additional, controlled outlet and reduce reliance on the school's existing exit point. This assists in distributing vehicle movements across the network, thereby easing localised congestion at peak drop-off and pick-up times.

Restricting the movement to left-turn-out only minimises conflict with traffic on Nicholson Road and reduces the likelihood of unsafe right-turn manoeuvres during peak traffic volumes. The arrangement will improve the

efficiency of the surrounding road network by smoothing traffic flow and reducing delays associated within existing access/egress points.

2. ***Downgrade of the existing full-movement intersection of Nicholson Road/Oxley Road to a left-in/left-out/right-in format as illustrated in figure 3;***

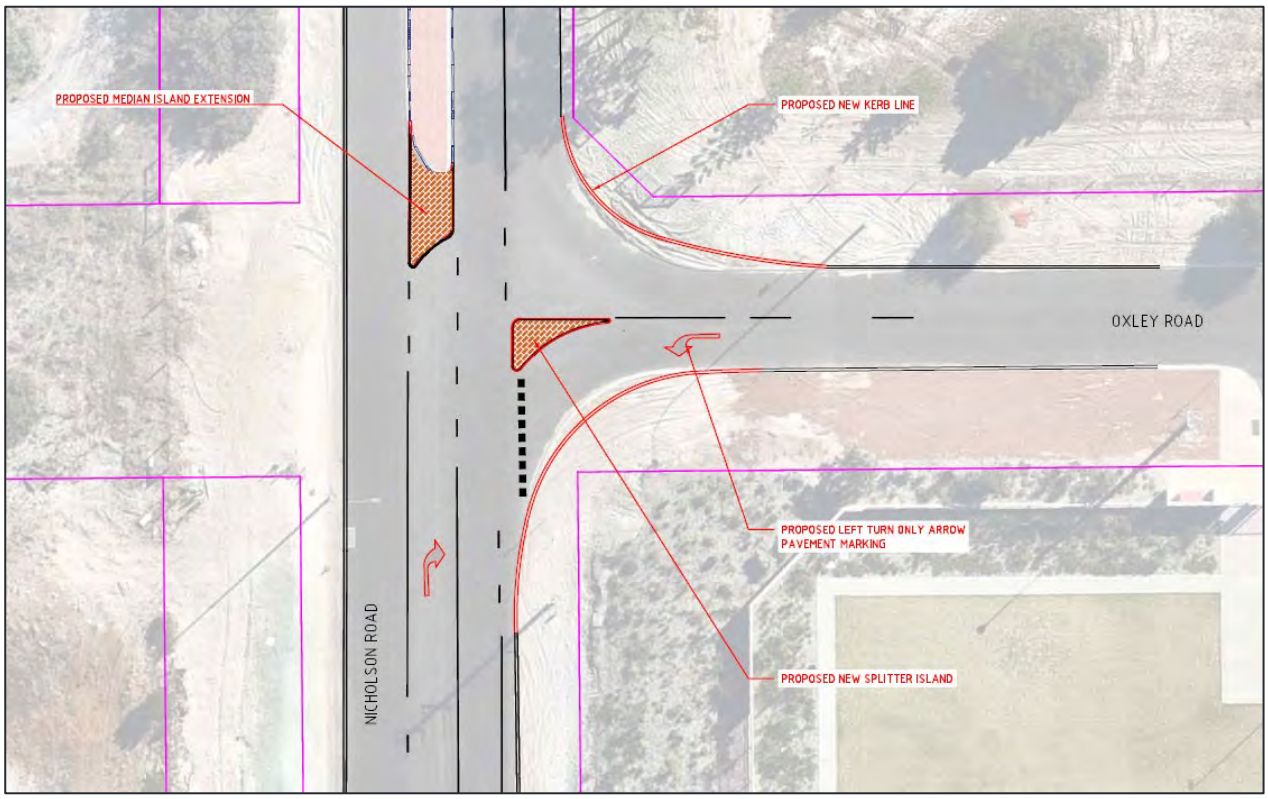


Figure 4: Proposed Amendments to Nicholson Road/Oxley Road Intersection

3. ***Introduction of a typical 40km/h school zone speed limit along Nicholson Road in the vicinity of school site; and,***

4. ***Instalment of "No Verge Parking" signage on Nicholson Road along the school frontage.***

With respect to measure 2 listed above, Transcore have noted in their report that due to the greater residential population north of the school, it is more likely that drivers would need to turn right onto Nicholson Road from Oxley Road. However, Transcore's investigation provided alternative routes are available for parents who need to travel north after the drop-off and pick-up is completed. These routes are identified and illustrated in Figure 5 below.



Figure 5: Alternative travel routes for parents wanting to travel northbound

PROPOSED AMENDMENT TO DEVELOPMENT APPROVAL

The applicant notes that some of these measures relate to road and intersections modifications, which fall outside the boundaries of the lot and therefore are outside of the JDAP's scope of determination. Therefore, the extent of the proposed measures that requires the approval of the JDAP is to open the existing accessway on Nicholson Road that is currently approved as 'emergency access only' and allow this to be used during peak times for left-out only.

This demonstrates a proactive approach to addressing community and agency concerns regarding school-related traffic impacts, showing that traffic management solutions have been carefully considered and tailored to the local conditions.

This proposed change will result in modifications to the egress arrangements for the site, and accordingly, the amended development plans require approval.

CONCLUSION

The traffic review completed by Transcore for the Australian Islamic College Forrestdale Campus has highlighted significant operational and safety challenges associated with the Nicholson Road/Oxley Road intersection during school peak periods. Current access arrangements result in long delays, queuing back into the site, and unsafe behaviours from frustrated drivers, compounded by the high speed environment of Nicholson Road and the absence of formal school zone controls.

To address these issues, the coordinated package of measures that are proposed expected to enhance safety for students, parents, and other road users, while also improving the efficiency of traffic operations during peak school hours.

Successful implementation will require collaboration with the City of Armadale, Department of Planning, Lands and Heritage, and Main Roads WA, as well as support from the school community. Adoption of these measures will deliver a safer and more effective access system for the AIC Forrestdale campus, both in the short term and as the school population continues to grow.

To support the subject application, a series of letters of support have been received from the following individuals and are provided as an attachment to this letter:

- Yax Mubarakai MLA – Member for Oakford
- Terry Healy MLA – Member for Southern River
- Commander Quentin Flatman – Western Australian Police Force.

On this basis, we respectfully request the City's support and endorsement of this amendment and seek the approval of the Metro Outer Joint Development Assessment Panel to amend Development Approval DAP/21/02046 accordingly.

Should you have any questions or require further clarification, please do not hesitate to contact the undersigned on (08) 6444 9171 or via email at daniella@urbanistaplanning.com.au. daniella@urbanistaplanning.com.au.

Yours sincerely



DANIELLA MRDJA
Director | Urbanista Town Planning

Technical Note: No 1 **Date:** 10/06/2025
Project No: t25.119
Project: Australian Islamic College, Forrestdale Campus
Subject: Access System considerations

1 Introduction

This Technical Note (hereafter TN) is prepared by Transcore on behalf of Australian Islamic College Perth (AIC).

The school is located within the developing suburb of Forrestdale and to the southwest of Forrestdale Lake Nature Reserve. It is bounded by Nicholson Road to the west and Oxley Road to the north. The location of the school site in the context of the Forrestdale locality is illustrated in Figure 1.



Figure 1: Site location

The school has engaged Transcore to review the existing operations of Nicholson Road/Oxley Road intersection (the intersection), which facilitates school's main and only access/egress point, as it relates to the school's peak drop-off/pick-up hour activities and propose appropriate measures to improve the efficiency and safety of such operations.

As part of the project scope, Transcore reviewed the relevant following project-related background documentation:

- KCTT Transport Impact Assessment report for the school (June 2021);
- DPLH comments on the school proposal (August 2021); and,
- Metro Outer JDAP planning determination letter (December 2021).

In order to attain the latest traffic pattern and operational conditions at the intersection, Transcore organised a video survey of the Nicholson Road/Oxley Road intersection during the two distinct school peak hour periods on Thursday 29th May 2025.

2 Existing Situation

The subject school occupies space at the southeast corner of the intersection in Forrestdale.

The planning approval for the school includes a three-point access system comprising two crossovers on Oxley Road and one crossover on Nicholson Road, as follows:

- Egress-only crossover on Oxley Road approximately 50m east of Nicholson Road intersection;
- Ingress-only crossover on Oxley Road approximately 270m east of Nicholson Road intersection; and,
- Full-movement crossover on Nicholson Road approximately 315m south of Oxley Road intersection for emergency access only).

As outlined previously, the Nicholson Road crossover is approved as an emergency-only crossovers hence, formally and practically, the Nicholson Road/Oxley Road intersection facilitates the principal access/egress point for the school.

Nicholson Road, at this location, is classified as *Distributor A* road with a road reservation of 30m. It is constructed as a single-carriageway, two lane road with approximately 8.2m wide trafficable pavement width. Nicholson Road in the vicinity of the school operates under an 80km/h speed limit regime. Nicholson Road is also an ORR under control of DPLH/Local Authority.

There is presently no "School Zone" speed limit regime on Nicholson Road in the vicinity of the AIC Forrestdale school site. It is understood that "School Zone" speed limit application has been rejected by Main Roads WA due to the status of Nicholson Road and lack of pedestrian crossing facility on Nicholson in the vicinity of the school. Refer Figure 2 and Figure 3 for more details.



Figure 2: Southbound view along Nicholson Road



Figure 3: Northbound view along Nicholson Road

Oxley Road terminates approximately 500m east of Nicholson Road and serves the AIC school and several rural residencies. It is classified as *Access Road* with a road reservation of 20m. It is constructed as a single-carriageway, two lane road with approximately 7.2m wide trafficable pavement width. Oxley Road operates under a default built-up area speed limit regime of 50km/h. Oxley Road is a local road. Refer Figure 4 and Figure 5 for more details.

Nicholson Road/Oxley Road intersection is a simple, priority-controlled T-intersection presently undergoing upgrade works to incorporate 100m-long channelised left-turn and right-turn pockets on Nicholson Road in line with the approved plans. Oxley Road approach to the intersection remains a single-lane approach.



Figure 4: Westbound view along Oxley Road towards Nicholson Road intersection



Figure 5: Westbound view along Oxley Road

Information available on Main Roads WA website provides crash statistics for Nicholson Road/Oxley Road intersection during the five-year period ending in December 2024. It should be noted however that the recorded crashes for this intersection includes the pre-upgrade period. Also, it should be noted that the crash records period only covers about one year of the opening of the school therefore the recoded crashes are not representative of any safety records at the intersection following the school opening.

The crash records indicate that Nicholson Road/Oxley Road intersection recorded a total of two crashes, both casualties (medical) and no fatalities in the last 5-year period. One of the crashes recorded was a rear-end type while the other was a right-angle type. More details on the crash records are provided in Table 1.

Table 1. Crash history for Nicholson Road/Oxley Road interchange

Intersection				Total Crashes	Casualty
Nicholson Road/Oxley Road				2	2
Rear End	Right Angle	Pedestrian	Cycle	Wet	Night
1	1	0	N/A	0	0

According to the advice provided by the school administration and site observation by Transcore, there has been many near misses at the intersection.

Also, according to the advice provided by the school administration, AIC Forrestdale campus presently accommodates 600 students and 65 staff (Stage 1). Once the school is fully built out (Stage 4) the total student cohort will be 1,000 children.

3 Current Access Operation

Transcore reviewed video survey of the Nicholson Road/Oxley Road intersection undertaken during the morning drop-off and afternoon pick-up periods on Thursday 29th May 2025.

In addition, site observations of school pick-up activities and Nicholson Road/Oxley Road intersection operation were undertaken on 27 June 2025.

The summary of the findings is provided as follows:

- Vehicles on Oxley Road approach to the intersection experiencing long delays, particularly during the afternoon peak;
- The left turning traffic from Oxley Road is blocked by the queue for right turning traffic;
- The long delays are caused by right turning traffic from Oxley Road;
- The queue back from the intersection extends into the site and along Oxley Road;
- School staff on hand managing traffic activity; however, extensive delays and queues still occur;
- Right-turning movements into Oxley Road are working reasonably well with acceptable delays and typically only one vehicle in queue in the critical afternoon peak;
- The existing 80km/h speed limit including proportion of heavy vehicles in total traffic mix on Nicholson Road contributes to reluctance of parents to take available gaps in traffic stream to exit Oxley Road resulting in additional delays;
- Driver frustration also results in some parents opting out of initial right-turn movement and taking left-turn movements or performing more risky egress movements out of Oxley Road. A number of near misses were observed during the afternoon peak school hour period; and,

- Students being picked up along Nicholson Road school frontage during the afternoon peak school hour period although no formal facilities are available along Nicholson Road. This situation presents a significant safety risk for both students and parents.

Figures Figure 6 through to Figure 8 illustrate the extensive queuing and hazardous situation extracted from the video survey.



Figure 6: Drop-offs occurring on Nicholson Road



Figure 7: Right-turning vehicles stopping on Nicholson Road for second stage movement



Figure 8: Extensive vehicle queues on Oxley Road approach to intersection

Hence, the overall traffic situation around AIC Forrestdale during the peak school activity periods is observed to be inefficient and with a significant safety concern element present. As a result, changes to the access/egress system and operational measures including speed control on Nicholson Road during the drop-off/pick-up periods must be considered.

4 Proposed Improvements

Transcore proposes a suite of practical operational measures which, if implemented, are expected to improve the existing risk profile and traffic flow efficiency associated with the school morning drop-offs and afternoon pick-ups.

The measures are significant enough to require engagement and approval of relevant state agencies and authorities such as City of Armadale, Department of Planning Lands and Heritage and Main Roads WA. These measures should also be introduced wholesale for full effect.

Accordingly, the following mitigating measure are proposed to alleviate operational and safety issues:

1. Downgrade of the existing full-movement intersection of Nicholson Road/Oxley Road to a left-in/left-out/right-in format;
2. Opening the existing school's emergency-only access point on Nicholson Road to parents during the two peak school activity periods exclusively and operating the access in left-turn-out format only;
3. Introduction of a typical 40km/h school zone speed limit along Nicholson Road in the vicinity of school site; and,
4. Instalment of "No Verge Parking" signage on Nicholson Road along the school frontage.

Based on Transcore's investigation alternative routes are available for parents who need to travel north after the drop-off and pick-up is completed. These routes are identified and illustrated in Figure 9.

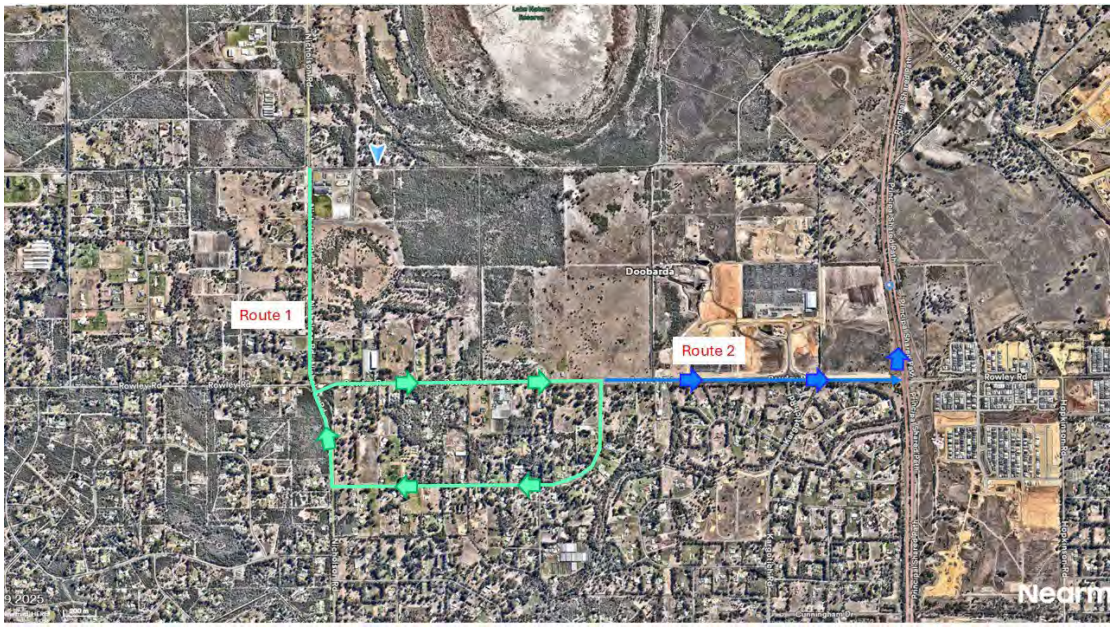


Figure 9: Alternative routes for parents driving in northern direction after school drop-offs and pick-ups

Due to significant safety concerns, Mr. Quentin Flatman, Police Commander Metropolitan Region (South) has written a letter outlining safety issues in the vicinity of the school and supporting measures 2 and 4 outlined above. A copy of this letter is provided in Attachment A of this technical note.

As previously mentioned, application of a new "School Zone" speed limit signage along Nicholson Road will require engagement with and endorsement of Main Roads WA as the approving authority.

Similarly, the proposed modification in the existing school access system would require engagement with and endorsement by City of Armadale and Department of Planning Lands and Heritage.

5 Conclusion

Transcore has identified a number of operational and safety issues at the Nicholson Road/Oxley Road intersection in Forrestdale associated with the operation of the K-12 AIC Forrestdale school's peak drop-off/pick-up periods activities.

Accordingly, Transcore proposes a suite of mitigating measures to improve the traffic efficiency and safety for parents, children and other road users during the

two distinct peak hour school periods. The application of these measures will require liaison with and endorsement of the relevant local and state agencies.

APPENDIX A

POLICE METRO SOUTH LETTER

OFFICIAL

WESTERN AUSTRALIA POLICE FORCE

METROPOLITAN REGIONAL OFFICE
POLICE HEADQUARTERS
6TH FLOOR
2 ADELAIDE TERRACE, EAST PERTH
WESTERN AUSTRALIA 6004

Your Ref:
Our Ref: fA
Inquiries: quentin.flatman@police.wa.gov.au

Mr Abdullah Khan OAM FACEL
CEO / Executive Principal
President – Islamic Schools Association of Australia
139 President Street
KEWDALE, W.A. 6105

Dear Mr Khan

LETTER OF SUPPORT – IMPROVED ROAD WORKS - AUSTRALIAN ISLAMIC COLLEGE, FORRESTDALE

I am writing to express strong support for the improvement of road safety for users of the Australian Islamic College Forrestdale.

On meeting with you and your team recently at Forrestdale and reviewing road design I provide a letter of support in the improvement of the area by granting access to the gate on Nicholson Road for **left turn exit only** during designated **pickup and drop-off times**.

Based on data collected by W.A. Police between **2022 and 2024** for the intersection of **Nicholson Road and Oxley Road in Forrestdale**, there is clear evidence that traffic congestion and safety risks are present and can be mitigated through this proposed measure.

In review of data from 1 January 2022 to 7 October 2024, a total of **1,184 speeding offences** were recorded, with **over 98%** detected via mobile cameras. This indicates consistent high-speed traffic flow along Nicholson Road, particularly during peak hours.

While no fatalities or critical injuries were reported, there were **three rear-end collisions** in 2023, two of which required medical attention. These incidents occurred within **500 metres** of the intersection and highlight the risks associated with turning movements at this location.

Allowing left turn exits will streamline traffic flow and reduce bottlenecks during peak school or commuter times. Additionally, vehicles will be able to exit more efficiently, minimising delays and improving overall traffic management.

Most importantly, this change will **mitigate the risk of serious accidents** for drivers attempting to turn right from Oxley Street onto Nicholson Road, a manoeuvre that currently exposes them to fast-moving traffic and limited visibility.

Further, safety could be vastly improved for all road users should the speed limit for the area align with standard **School Zones of 40 km/h** during designated school drop off and collection times. Noting Nicholson Road experiences heavy traffic loads, it is

my view if 40 km/h could not be achieved, a **reduction in speed to 60 km/h** would contribute significantly to the safety of students, parents of the Australian Islamic College and other road users

Considering these findings, I provide this letter as support for your use in engaging responsible parties in initiating change and allowing access for left turn exit only at the gate on Nicholson Road during pickup and drop-off periods.

This adjustment will contribute to safer and more efficient traffic operations in the area.

Yours sincerely



Quentin FLATMAN APM
Commander – Metropolitan Region (South)

8 July 2025

Document Control

Doc name:	Bushfire Management Plan Nicholson Road Forrestdale Development Support				
Doc no.:	EP20-126(03)--005 DAE				
Version	Date	Author		Reviewer	
1	June 2021	Dana Elphinstone	DAE	Jason Hick	JDH
	Issued to client for review.				
A	July 2021	Dana Elphinstone	DAE	Jason Hick	JDH
	Amended table of responsibilities based on BEEP.				
B	October 2021	Dana Elphinstone	DAE	Jason Hick	JDH
	Updated in response to DFES comments.				

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The content of this document has been prepared primarily to consider the layout of the development or the appropriate building construction standard, where relevant. The measures outlined are considered to be prudent minimum standards only based on the relevant experience of the author and the standards prescribed by the relevant authorities. The level of implementation of the fire precautions achieved will depend upon the actions of the landowner or occupiers of the land and is not the responsibility of the author. Your local government and relevant fire authority (i.e. Department of Fire and Emergency Services or local bushfire brigade) should be approached for guidance on preparing for and responding to a bushfire.

Notwithstanding the precautions adopted in this report, it should always be remembered that bushfires burn under a wide range of conditions. An element of risk, no matter how small always remains. The objective of the Australian Standard AS 3959-2018 is to "prescribe particular construction details for buildings to reduce the risk of ignition from a bushfire , appropriate to the potential for ignition caused by embers burning, radiant heat or flame generated by a bushfire; and the intensity of the bushfire attack on the building" (Standards Australia 2018). Building to the standards outlined in AS 3959 does not guarantee a building will survive a bushfire or that lives will not be lost.

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Executive Summary

Australian Islamic Colleges (Perth) Inc are lodging an application for the development and use of Lot 15 Nicholson Road, Forrestdale ('the property') as a place of worship and educational establishment. The proposed development footprint covers approximately 8.7 hectares(ha) of the 16.7 ha property and is herein referred to as 'the site'. The property is located within the City of Armadale 25 km south of the Perth Central Business District.

The property is located within a 'bushfire prone area' under the state-wide *Map of Bush Fire Prone Areas* released by the Office of Bushfire Risk Management (OBRM 2019). This Bushfire Management Plan (BMP) has been prepared to support the development of the site in accordance with *State Planning Policy 3.7 Planning in Bushfire Prone Areas* (WAPC 2015), the *Guidelines for Planning in Bushfire Prone Areas version 1.3* (WAPC and DFES 2017) and *Australian Standard 3959-2018 Construction of buildings in bushfire prone areas* (Standards Australia 2018). This BMP has also been prepared to ensure that any bushfire risk is appropriately managed through the layout of the development and the implementation of appropriate construction standards where necessary.

A school if located in an area subject to a Bushfire Attack level (BAL) rating equal to or exceeding BAL-12.5, is identified as a 'vulnerable 'land use based on the definitions provided in SPP 3.7 and the *Guidelines*. This is because it is likely to involve people who are unaware of their surroundings and who may require assistance or direction in the event of a bushfire. The policy intent of SPP 3.7 is to "preserve life and reduce the impact of bushfires on property and infrastructure through effective risk-based land use planning". A separate Bushfire Emergency Evacuation Plan (BEEP) has been prepared for the site.

The site will be cleared of vegetation as part of the development and is currently characterised by grassland and scrub vegetation. Existing bushfire hazards identified within 150 m of the site include areas of unmanaged vegetation within private properties to the north, east, south and west.

A Bushfire Attack Level (BAL) assessment has been undertaken as part of the BMP and considers the extent of the post-development classified vegetation and the effective slope beneath the vegetation within 150 m of the site. A BAL Contour Plan has been prepared based on the post-development scenario, which determined that all proposed buildings can achieve a BAL rating of BAL-19 or below.

An assessment against the Bushfire Protection Criteria outlined in the Guidelines determined that the proposed development can achieve an acceptable solution for all criteria.

This BMP sets out the roles and responsibilities of the developer and the City of Armadale to ensure the bushfire risk to the site is appropriately managed.

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Appendix A

Development Plans (Marocchi Engineering Group 2021)

Appendix B

Landscape Master Plan (Propagule 2021)

List of Abbreviations

Table A1: Abbreviations – General terms

General terms	
AHD	Australian Height Datum
AS	Australian Standard
APZ	Asset Protection Zone
BAL	Bushfire Attack Level
BEEP	Bushfire Emergency Evacuation Plan
BMP	Bushfire Management Plan
BPAD	Bushfire Planning and Design
ESA	Environmentally Sensitive Area
FDI	Fire Danger Index
FZ	Flame Zone
TEC	Threatened ecological community

Table A2: Abbreviations – Organisations

Organisations	
CoA	City of Armadale
DBCA	Department of Biodiversity Conservation and Attractions
DWER	Department of Water and Environmental Regulation
DFES	Department of Fire and Emergency Services
DPLH	Department of Planning, Lands and Heritage
OBRM	Office of Bushfire Risk Management
WAPC	Western Australian Planning Commission

Table A3: Abbreviations – Legislation and policies

Legislation	
AS 3959	*Australian Standard 3959-2018 Construction of buildings in bushfire-prone areas*
Guidelines	*Guidelines for Planning in Bushfire Prone Areas version 1.3* (WAPC and DFES 2017)
SPP 3.7	*State Planning Policy 3.7 Planning in Bushfire Prone Areas* (WAPC 2015)

Table A4: Abbreviations – units of measurement

Units of measurement	
cm	Centimetre
ha	Hectare
m	Metre
m^2	square metre
m AHD	m in relation to the Australian height datum
mm	Millimetre

1 Proposal Details

1.1 Background

Australian Islamic College (Perth) Inc is lodging an application to develop and use part of Lot 15 Nicholson Road in Forrestdale as a place of worship and educational establishment. The property is approximately 16.7 hectares (ha) in size and is located within the City of Armadale approximately 25 km south of the Perth Central Business District, as shown in **Figure 1**. The proposed development footprint covers approximately 8.7 ha of the property and for the purposes of this report the development footprint will be referred to as 'the site'.

The property is currently identified as a 'bushfire prone area' under the state-wide *Map of Bush Fire Prone Areas* prepared by the Office of Bushfire Risk Management (OBRM 2019) and is shown in **Plate 1** below.



Plate 1: Areas within and surrounding the site identified as 'bushfire prone areas' (as indicated in purple) under the state-wide Map of Bush Fire Prone Areas (OBRM 2019).

The property has been significantly disturbed and modified, with approximately 10.11 ha of the site containing 'completely degraded', non-native vegetation. The property is bound by remnant vegetation to the east and south of the site, and rural land to the north and west.

As school buildings are not Class 1, Class 2, Class 3 or Class 10a buildings, they are not required to be built to a higher standard following *Australian Standard AS 3959:2018 construction of buildings in bushfire prone areas (AS 3959).* However, it is recommended that all vulnerable use buildings are constructed to their determined BAL ratings.

1.2 Proposed development

The site is proposed to be developed as an Australian Islamic College incorporating the following design features:

- Five learning buildings;
- A library;
- A gym;
- A canteen;
- A worship building;
- Outdoor areas for each learning group;
- An oval;
- Four tennis courts;
- A soccer field;
- Landscaped areas; and
- Car parks including parent parking, visitor parking, drop off and staff parking.

The relevant architectural site plans that have informed this BMP are included in **Appendix A**, and a landscape master plan is included in **Appendix B**.

1.3 Aim of this document

The aim of this Bushfire Management Plan (BMP) is to assess bushfire hazards within the site and nearby areas and ensure that the threat posed by any identified hazards can be appropriately mitigated and managed, and demonstrate satisfaction of clause 6.11 of SPP 3.7, the precautionary principle. This BMP has been prepared in accordance with *State Planning Policy 3.7 Planning in Bushfire Prone Areas* (SPP 3.7) (WAPC 2015) and the *Guidelines for Planning in Bushfire Prone Areas version 1.3* (the Guidelines) (WAPC and DFES 2017). The document provides an assessment of the general bushfire management strategies to be considered as part of the future development within the site and includes:

- An assessment of the existing classified vegetation in the vicinity of the site (within 150 m) and consideration of bushfire hazards that will exist in the post-development scenario (**Section 3**).
- Commentary on how future development of the site can achieve the bushfire protection criteria outlined within the Guidelines (**Section 5**).
- An outline of the roles and responsibilities associated with implementing this BMP (**Section 6**).

A school if located in an area subject to a Bushfire Attack level (BAL) rating equal to or exceeding BAL-12.5, is identified as a 'vulnerable 'land use based on the definitions provided in SPP 3.7 and the Guidelines. A separate Bushfire Emergency Evacuation Plan has been prepared for the vulnerable use.

1.4 Statutory policy and framework

The following key legislation, policies and guidelines are relevant to the preparation of a bushfire management plan:

- *Bush Fires Act 1954*
- *Fire and Emergency Services Act 1998*
- *Planning and Development Act 2005* and associated regulations
- *Building Act 2011* and associated regulations
- *State Planning Policy 3.7 Planning in Bushfire Prone Areas* (WAPC 2015)
- *Guidelines for Planning in Bushfire Prone Areas version 1.3* (WAPC and DFES 2017)

2 Environmental Considerations

In accordance with the *Bushfire Management Plan – BAL Assessment* template prepared by the Department of Planning, Lands and Heritage (2018), this BMP has considered whether there are any environmental values that may require specific consideration through either protection, retention or revegetation. To support this, a review of publicly available databases and site-specific investigations has been undertaken, with particular reference to the Shared Location Information Platform (SLIP) databases. A summary of the search results has been provided in Table 1.

Table 1: Summary of potential environmental considerations that may be associated with the site (based on a search of the SLIP databases and site-specific information)

Key environmental feature:	Yes / no / potentially occurring within the property	If yes / potentially, describe value that may be impacted
Conservation category wetlands and buffer (Geomorphic wetlands Swan Coastal Plain) (DBCA-019)	Yes	Two conservation category wetland features associated with the 'Forrestdale Sumpland' occur adjacent to the northern and eastern sides of the property. Both are largely mapped as external to the property but both have small portions that overlap the property boundary.
Waterways (DWER-031)	No	Not applicable.
RAMSAR wetlands (DBCA-010)	No	Not applicable.
Threatened and priority flora (DBCA-036)	No	The likelihood that the property would provide habitat for any threatened or priority flora is quite unlikely due to the degraded condition.
Threatened and priority fauna (DBCA-037)	Potentially	Black cockatoo species have the potential to occur within the property, although no evidence of black cockatoos using the property for roosting, breeding or foraging was found during site-specific surveys. Notwithstanding this, a total of approximately 2.82 ha of foraging habitat for Carnaby's black cockatoo, 2.07 ha for Baudin's black cockatoo and 0.11 ha for forest red-tailed black cockatoo was mapped within the property.
Threatened Ecological Communities (TECs) (DBCA-038)	Yes	A 0.6 ha patch of the EPBC Act listed Banksia woodlands TEC occurs in the south eastern portion of the property. A 2.17 ha patch of the state listed priority ecological community 'low lying Banksia attenuata and shrublands' (P3) occurs in the north and south east portions of the property.
Bush Forever areas (DPLH-019)	No	No Bush Forever sites occur within the property. Bush Forever Site 345 lies directly adjacent to the east and southern boundaries of the property.
Clearing regulations – Environmentally Sensitive Areas (ESAs) (DWER-046)	No	Not applicable.
DBCA controlled lands or waters (DBCA-011)	No	Not applicable.
Aboriginal heritage (DAA-001)	No	Not applicable.
Non-indigenous heritage (DPLH-006)	No	Not applicable.

2.1 Native vegetation – modification and clearing

The development will occur mainly in the western portion of the site, whilst the vast majority of vegetation will be retained in the eastern portion. Development within the western portion will require clearing of vegetation where retention is not possible due to engineering constraints.

All remaining vegetation outside the development site is assumed to remain in its existing condition. No areas of native vegetation outside the development site are proposed to be modified or cleared by the proponent as part of the proposed development.

2.2 Revegetation and landscape plans

The development includes landscaping through the site in accordance with the landscape master plan included in **Appendix B**. Landscaping will include both drainage swale and general amenity planting areas within the site. Section 2.2.3.2(f) of AS 3959 provides the following definition for 'low-threat vegetation':

Vegetation regarded as low threat due to factors such as flammability, moisture content or fuel load. This includes grassland managed in a minimal fuel condition, mangroves and other saline wetlands, maintained lawns, golf courses (such as playing areas and fairways), maintained public reserves and parklands, sporting fields, vineyards, orchards, banana plantations, market gardens (and other non-curing crops), cultivated gardens, commercial nurseries, nature strips and wind breaks.

The landscaping plan includes a combination of turf, low shrub planting and trees. All areas of vegetation will be drip-irrigated and maintained on an ongoing basis. Therefore, the fuel load will be managed, and no curing of grass is anticipated given the regular irrigation. Based on the landscape master plan, all landscaped areas are anticipated to meet the definition of 'low-threat vegetation'.

3 Bushfire Assessment Results

3.1 Assessment inputs

This bushfire assessment was undertaken in accordance with Method 1 of AS3959-2018. The BAL Contour Plan provided as **Figure 3** has been prepared based on the developed condition of the site in accordance with Appendix Three of the Guidelines. A site visit was undertaken on 2 November 2020.

3.1.1 Assumptions

The BAL assessment includes the following assumptions:

- **Designated FDI**: 80
- **Flame temperature**: 1090 K
- **Effective slope beneath classified vegetation**: flat/upslope and downslope >0-5° (see **Figure 2**)
- The site will be cleared of classified vegetation and developed with landscaping in accordance with **Appendix B**.
- Vegetation within the eastern portion of the title (outside the development footprint) will not be modified as part of this development and has been assumed to remain in its current state.
- Areas of low threat vegetation outside the site will continue to be managed and/or considered to achieve low threat (in accordance with Section 2.2.3.2 of AS 3959) based on the existing maintenance regimes, and/or as per the City of Armadale Firebreak Notice.
- Classified vegetation that has been identified outside of the proponent's landholdings has been assumed to remain in its current state (unless stated otherwise) and will therefore remain a bushfire hazard to development within the site.

3.1.2 Vegetation Classification

All vegetation within 150m of the site was classified in accordance with Clause 2.2.3 of AS 3959-2018. Each distinguishable vegetation plot is described in **Table 2** and shown in **Figure 3**.

Table 2: AS3959 Vegetation Classification (refer to Figure 2)

Photo ID:	1	**Plot:**	1
Vegetation Classification or Exclusion Clause			
Forest			
Description / Justification for Classification			
Standing vegetation to the north of the site includes multi-tiered vegetation with more than 30% foliage cover with canopy trees having an average height of 10 m. This vegetation is classified as forest.			



Table 2: AS3959 Vegetation Classification (refer to Figure 2) (continued)

Photo ID:	2	**Plot:**	1
Vegetation Classification or Exclusion Clause			
Forest			
Description / Justification for Classification			
Forest vegetation north of the site.			



Photo ID:	3	**Plot:**	2
Vegetation Classification or Exclusion Clause			
Forest			
Description / Justification for Classification			
Standing vegetation to the south of the site includes multi-tiered vegetation with more than 30% foliage cover with canopy trees having an average height of 10 m. This vegetation is classified as forest. Grassland vegetation is visible in the foreground.			



Photo ID:	4	**Plot:**	2
Vegetation Classification or Exclusion Clause			
Forest			
Description / Justification for Classification			
Standing vegetation to the south of the site includes multi-tiered vegetation with more than 30% foliage cover with canopy trees having an average height of 10 m. This vegetation is classified as forest. Grassland vegetation is visible in the foreground.			



Table 2: AS3959 Vegetation Classification (refer to Figure 2) (continued)

Photo ID:	5	**Plot:**	3
Vegetation Classification or Exclusion Clause			
Forest			
Description / Justification for Classification			
Standing vegetation to the northwest of the site includes multi-tiered vegetation with more than 30% foliage cover with canopy trees having an average height of 10 m. This vegetation is classified as forest.			
Photo ID:	6	**Plot:**	3
Vegetation Classification or Exclusion Clause			
Forest			
Description / Justification for Classification			
Standing vegetation to the northwest of the site includes multi-tiered vegetation with more than 30% foliage cover with canopy trees having an average height of 10 m. This vegetation is classified as forest.			
Photo ID:	7	**Plot:**	4
Vegetation Classification or Exclusion Clause			
Scrub			
Description / Justification for Classification			
Vegetation east of the site is characterised by native shrubs with an average height of 2-4 m. This vegetation is classified as scrub.			

Table 2: AS3959 Vegetation Classification (refer to Figure 2) (continued)

Photo ID:	8	**Plot:**	4
Vegetation Classification or Exclusion Clause			
Scrub			
Description / Justification for Classification			
Vegetation east of the site is characterised by native shrubs with an average height of 2-4 m. This vegetation is classified as scrub.			
Photo ID:	9	**Plot:**	5
Vegetation Classification or Exclusion Clause			
Grassland			
Description / Justification for Classification			
Vegetation to the east of the site includes large areas of pasture grass. This vegetation is not maintained and is classified as grassland.			
Photo ID:	10	**Plot:**	6
Vegetation Classification or Exclusion Clause			
Grassland			
Description / Justification for Classification			
Vegetation to the west of the site includes large areas of pasture grass. This vegetation is not maintained and is classified as grassland.			

Table 2: AS3959 Vegetation Classification (refer to Figure 2) (continued)

Photo ID:	11	**Plot:**	9
Vegetation Classification or Exclusion Clause			
Exclusion clause 2.2.3.2(f)			
Description / Justification for Classification			
There is a single row of trees along Nicholson Road to the west of the site. This vegetation appears to be managed and is considered a windbreak.			
Photo ID:	12	**Plot:**	9
Vegetation Classification or Exclusion Clause			
Exclusion clause 2.2.3.2(f)			
Description / Justification for Classification			
There is a single row of trees along Nicholson Road to the west of the site. This vegetation appears to be managed and is considered a windbreak.			

3.2 Assessment outputs

The vegetation classification undertaken in Section 3.1 is summarised in Table 3, and incorporates the known changes to vegetation post-development. The resultant BALs are shown in Figure 3. The BAL ratings for the key built form elements of the proposed development are outlined in Table 4 and shown in Figure 4.

Table 3: AS3959 Vegetation Classification and Effective Slope

Plot	Applied vegetation classification	Effective slope
1-3	Class A – Forest	Flat/upslope
4	Class D - Scrub	Flat/upslope
5	Class G – Grassland	>0-5°
6-7	Class G – Grassland	Flat/upslope
8-9	Exclusion 2.2.3.2(f)	N/A

Table 4: AS3959 Method 1 BAL determination for built form

Building	Separation to classified vegetation	Bushfire Attack Level
Worship	75 m to Plot 3 (Forest) 30 m to Plot 6 (Grassland) >100 m to all other Plots	BAL-12.5
Library	77 m to Plot 1 (Forest) 40 m to Plot 6 (Grassland) >100 m to all other Plots	BAL-12.5
Office	49 m to Plot 1 (Forest) 67 m to Plot 4 (Scrub) 41 m to Plot 6 (Grassland) >100 m to all other Plots	BAL-12.5
Pre-Primary	39 m to Plot 6 (Grassland) >100 m to all other Plots	BAL-12.5
Kindergarten	97 m to Plot 6 (Grassland) >100 m to all other Plots	BAL-LOW
High school	83 m to Plot 1 (Forest) 40 m to Plot 4 (Scrub) 68 m to Plot 5 (Grassland) 82 m to Plot 6 (Grassland) >100 m to all other Plots	BAL-12.5
Primary school	40 m to Plot 6 (Grassland) >100 m to all other Plots	BAL-12.5
Specialty	66 m to Plot 4 (Scrub) 67 m to Plot 5 (Grassland) >100 m to all other Plots	BAL-12.5
Canteen	34 m to Plot 4 (Scrub) 35 m to Plot 5 (Grassland) >100 m to all other Plots	BAL-12.5
Gym	37 m to Plot 4 (Scrub) 30 m to Plot 5 (Grassland) >100 m to all other Plots	BAL-12.5

4 Identification of Bushfire Hazard Issues

From a bushfire hazard management perspective, the key issues that are likely to require management and/or consideration as part of future development within the site include:

- Provision of appropriate separation distance from bushfire hazards surrounding the site to ensure a BAL rating of BAL-29 or less can be achieved at proposed buildings (built form).
- Ensuring that site access is designed, constructed and managed to achieve low threat standards where indicated, in accordance with AS 3959 and the requirements of the City of Armadale.
- Ensuring that the lot is managed to a low threat standard in accordance with the asset protection zone (APZ) requirements outlined in the Guidelines.
- Ensuring that vulnerable occupants are provided for in the event of a bushfire emergency.

These issues are considered further in **Section 5**.

5 Assessment against the Bushfire Protection Criteria

The bushfire management measures required to achieve the acceptable solutions of the relevant bushfire protection criteria have been discussed through this report and are summarised in Table 5. The spatial representation of bushfire management strategies is provided in Figure 4.

Table 5: Assessment against the bushfire protection criteria

Bushfire protection criteria	Method of compliance Acceptable solutions	Proposed bushfire management strategies
Element 1: Location	A1.1 Development location	The proposed development provides building envelopes that will be subject to BAL-29 or below, compliant with A1.1. Whilst there is minor incursion of BAL-40/FZ into the site, no buildings will be subject to BAL-40/FZ.
Element 2: Siting and design	A2.1 Asset Protection Zone	Portions of the site will be subject to BAL-40/FZ, as per **Figure 3**. However, given the depth of the site, which is proposed to be managed as an APZ, habitable buildings (developable land) will be able to be located outside BAL-40/FZ and can achieve BAL-29 or less. This is in accordance with *Position Statement: Planning in bushfire prone areas - Demonstrating Elements 1: Location and Element 2: Siting and design* (DPLH 2019). In this regard, the acceptable solution can be satisfied for all proposed habitable buildings. The final design of the landscaping for the site will be undertaken during detailed design in consultation with the City to achieve the required APZ standards.
Element 3: Vehicular access	A3.1 Two access routes.	The site has access to Oxley Road (which will be constructed prior to occupancy of the site) providing egress to the west and access to Nicholson Road via an emergency access way. Access onto Nicholson Road was originally envisaged as a direct access, however additional direct access onto Nicholson Road was not supported by DPLH. DPLH do support the access as an EAW. The proposed access complies with A3.1.
	A3.2 Public road	Not applicable. No public roads are proposed as part of development of the site. Whilst Oxley Road will be developed, this road is not required to meet the access requirements for the site as Nicholson Road provides egress to two different destinations and allows multiple entries to the site.
	A3.3 Cul-de-sac (including a dead-end-road)	Not applicable. No public roads are proposed as part of development of the site, nor is the site serviced by a cul-de-sac.
	A3.4 Battle-axe	Not applicable. No public roads are proposed as part of development of the site, nor is the site serviced by a battle-axe.
	A3.5 Private driveway longer than 50 metres	The vehicle access for the site is longer than 50 m. The proposed access has a minimum width of 6 m providing two-way traffic flow. A turning head is provided in the north-eastern corner of the site with a 17.5 m diameter. Passing bays are accommodated within the 6 m access width. Any culverts must be able to support a minimum weight of 15 tonnes. Access is to be constructed with all-weather surface and meet the requirements of Table 6, Appendix Four of the Guidelines. The proposed access is considered compliant with A3.5.
	A3.6 Emergency access way	Access onto Nicholson Road is to be provided as an emergency access way. Access onto Nicholson Road was originally envisaged as a direct access, however additional direct access onto Nicholson Road was not supported by DPLH. DPLH do support the access as an EAW. The EAW is located within 600 m of a public road, is to be provided as a and will be designed in accordance with the minimum technical requirements of the Guidelines.

Table 5: Assessment against the bushfire protection criteria (continued)

Bushfire protection criteria	Method of compliance Acceptable solutions	Proposed bushfire management strategies
Element 3: Vehicular access (continued)	A3.7 Fire service access routes/perimeter roads	Not applicable. No fire serve access routes are proposed.
	A3.8 Firebreak width	The site will be maintained to a low threat standard. The majority of the site has vehicle access along the boundaries of the site or are accessible from existing public roads. Therefore, additional firebreak requirements are not warranted for this site.
Element 4: Water	A4.1 Reticulated areas	The site and proposed development will be serviced by a reticulated scheme water supply. Hydrants are to be provided in accordance with the requirements of the Water Corporation including 'No. 63 Water Reticulation Standard'. The location of the hydrants can be finalised during detailed design in accordance with the relevant standards and advice from DFES.
	A4.2 Non-reticulated areas	Not applicable. The proposed development will be connected to reticulated scheme water.
	A4.3 Individual lots within non-reticulated areas	Not applicable.

6 Responsibilities for Implementation and Management of the Bushfire Measures

Table 6 outlines the future responsibilities of the proponent/developer and the City of Armadale associated with implementing this BMP with reference to ongoing bushfire risk mitigation measures for existing land uses or future mitigation measures to be accommodated as part of future development.

Table 6: Responsibilities for the implementation of this BMP

Management action	Timing
Developer/landowner	
Remove classified vegetation from the site.	During construction
Maintain vegetation within the site to a low threat standard in accordance with Section 2.2.3.2(f) of AS 3959 and the Asset Protection Zone Standards in Schedule 1 of the Guidelines.	Ongoing
Construct access in accordance with Appendix Four of the Guidelines including the provision of signage for the Emergency Access Way.	During construction
Connect site to reticulated water supply and provide sufficient hydrant coverage in accordance with the requirements of the Water Corporation's 'No. 63 Water Reticulation Standard'.	During construction
The refuge building identified in the Bushfire Emergency Evacuation Plan must be constructed to minimum BAL-12.5 under AS3959 to ensure shelter in place building has appropriate fire resistance.	During construction
Whilst not mandatory for Class 4-9 buildings, it is considered best practice for any buildings subject to BAL-12.5 or above to be constructed to the AS 3959.	During construction
Comply with the City of Armadale Firebreak Notice, including clearing and maintaining the land free of all flammable matter to a height no greater than 10cm.	At all times, where applicable.
City of Armadale	
Monitoring vegetation fuel loads in private landholdings against the requirements of the City's Firebreak Notice (and/or existing maintenance regimes outlined in this BMP) and liaising with relevant stakeholders to maintain fuel loads at minimal/appropriate fuel levels.	Ongoing, as required
Maintaining fuel loads in existing public road reserves and public open space (under their management) to appropriate standards to minimise fuel loads (as per current maintenance regimes).	Ongoing, as required
Water Corporation	
Ensure water hydrants in adjacent road reserve are maintained and accessible to fire services at all times.	Ongoing, as required

7 Applicant Declaration

7.1 Accreditation

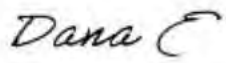
This BMP has been prepared by Emerge Associates who have a number of team members who have undertaken Bushfire Planning and Design (BPAD) Level 1 and Level 2 training and are Fire Protection Association of Australia (FPAA) accredited practitioners. Emerge Associates have been providing bushfire risk management advice for more than seven years, undertaking detailed bushfire assessments (and associated approvals) to support the land use development industry.

Dana Elphinstone is a FPAA Level 2 BPAD accredited practitioner (BPAD No. 52565) and is also accredited as a Bushfire Hazard Practitioner in Tasmania (BFP-146), with over six years' experience.

7.2 Declaration

I declare that the information provided is true and correct to the best of my knowledge.

Signature:



Name: Dana Elphinstone

Company: Emerge Associates

Date: 19 October 2021

BPAD Accreditation: BPAD No. 52565

8 References

8.1 General references

Standards Australia 2018, AS 3959-2018 *Construction of buildings in bushfire-prone areas*, Sydney.

Western Australian Planning Commission (WAPC) 2015, *State Planning Policy 3.7 Planning in Bushfire Prone Areas*, Perth.

Western Australian Planning Commission and Department of Fire and Emergency Services (WAPC and DFES) 2017, *Guidelines for Planning in Bushfire Prone Areas* Version 1.3, Western Australia. December 2017.

8.2 Online references

Landgate 2020, *Locate V5*, viewed June 2021, https://maps.slip.wa.gov.au/landgate/locate/

Landgate 2020, *Map Viewer*, viewed June 2021, https://www0.landgate.wa.gov.au/maps-and-imagery/interactive-maps/map-viewer

Office of Bushfire Risk Management (OBRM) 2019, *Map of Bush Fire Prone Areas*, viewed June 2021, https://maps.slip.wa.gov.au/landgate/bushfireprone/

Figures

Figure 1: Site Location

Figure 2: AS3959 Vegetation Classification

Figure 3: Bushfire Attack Level Contour Plan

Figure 4: Spatial Representation of Bushfire Management Strategies

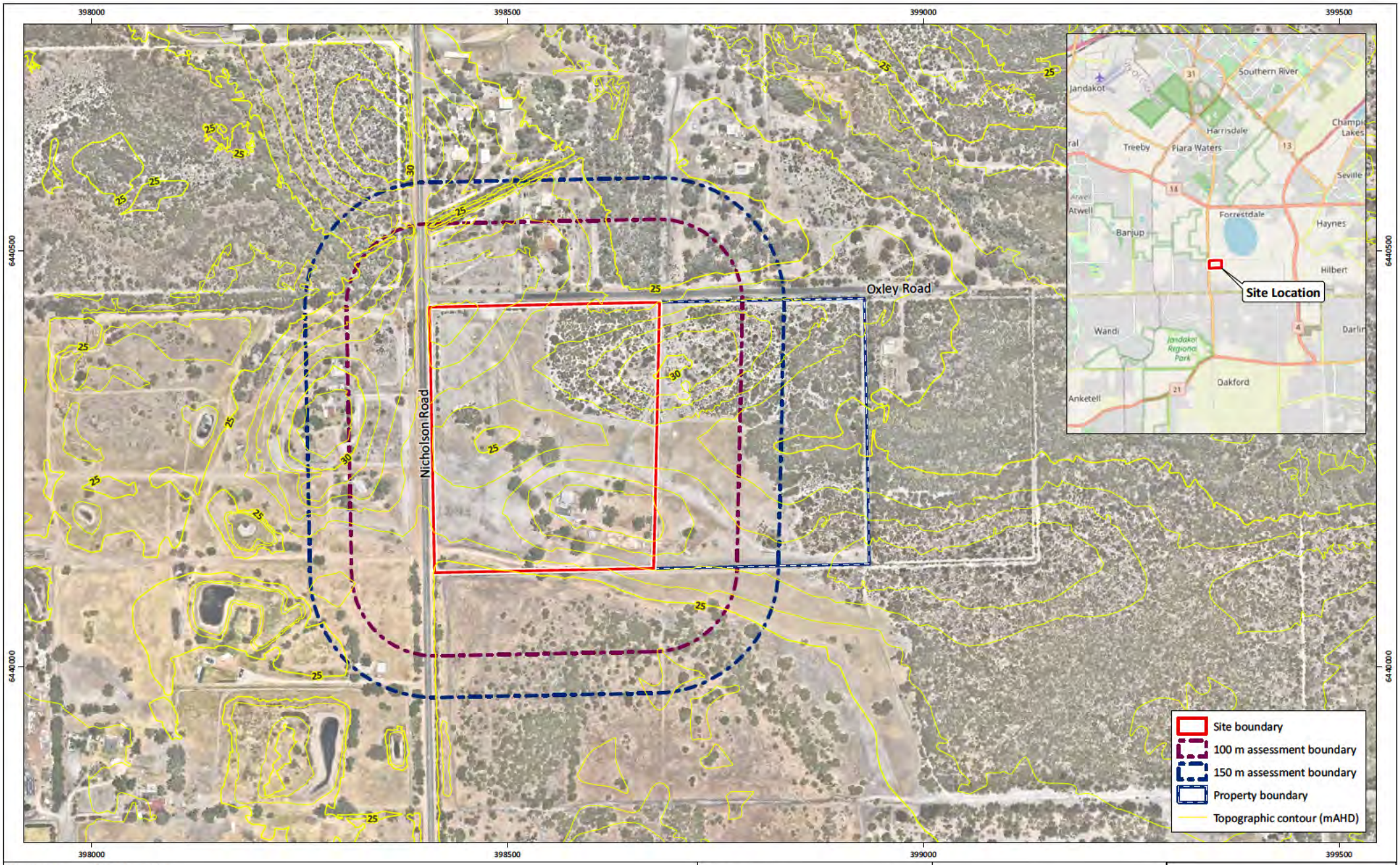


Figure 1: Site Location

Project: Bushfire Management Plan
Nicholson Road Forrestdale School Development Support

Client: Australian Islamic Colleges

Plan Number:
EP20-126(03)--F28

Drawn:	GAR
Date:	23/06/2021
Checked:	DAE
Approved:	JDH
Date:	29/06/2021

N

0 100 200
Metres

Scale: 1:6,000@A4

GDA 1994 MGA Zone 50

emerge ASSOCIATES

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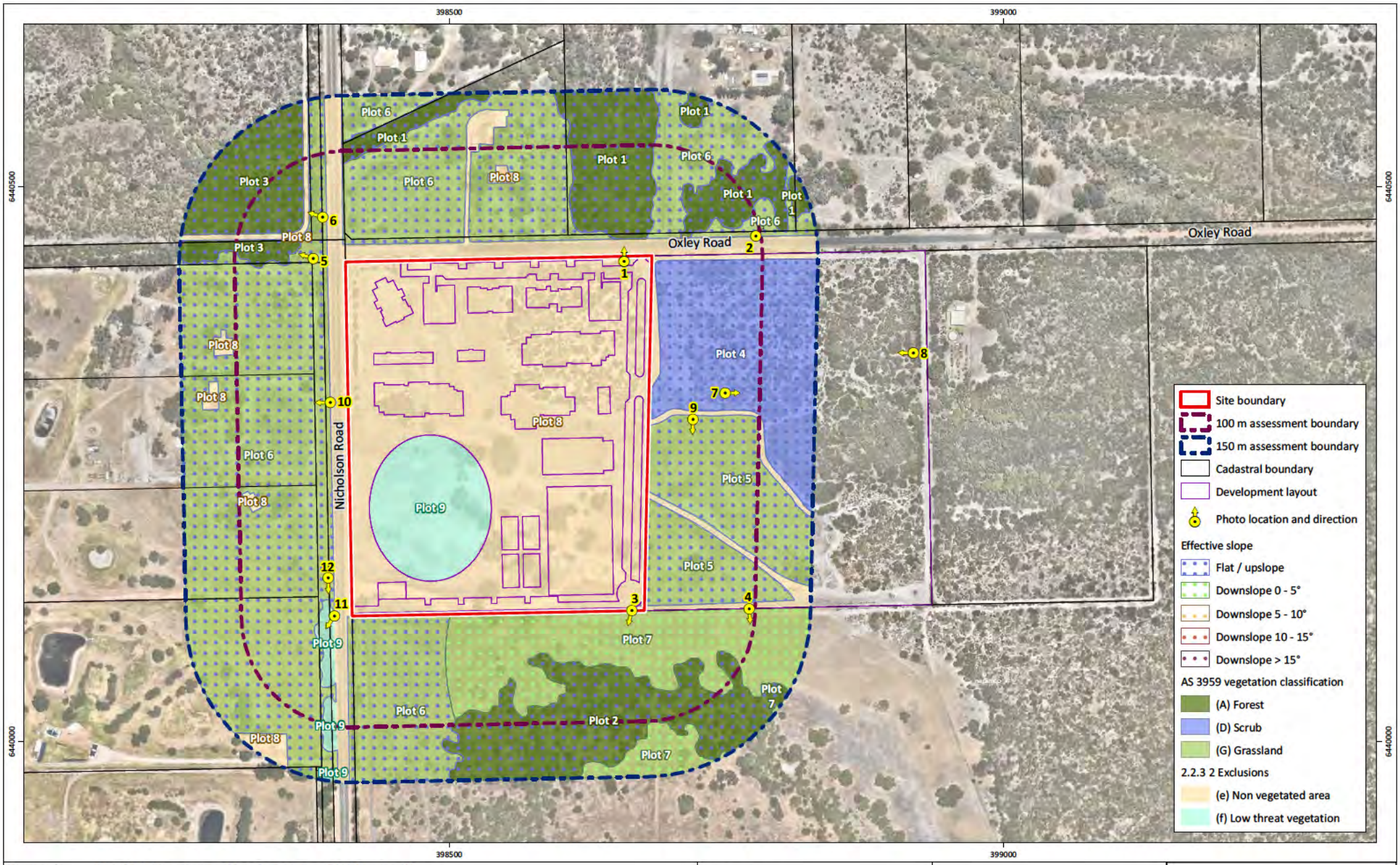


Figure 2: **AS 3959 Vegetation Classification and Effective Slope**

Project: Bushfire Management Plan
Nicholson Road Forrestdale School Development Support

Client: Australian Islamic Colleges

Plan Number:
EP20-126(03)--F29
Drawn: GAR
Date: 23/06/2021
Checked: DAE
Approved: JDH
Date: 29/06/2021

N

0 50 100 150
Metres
Scale: 1:4,500@A4
GDA 1994 MGA Zone 50

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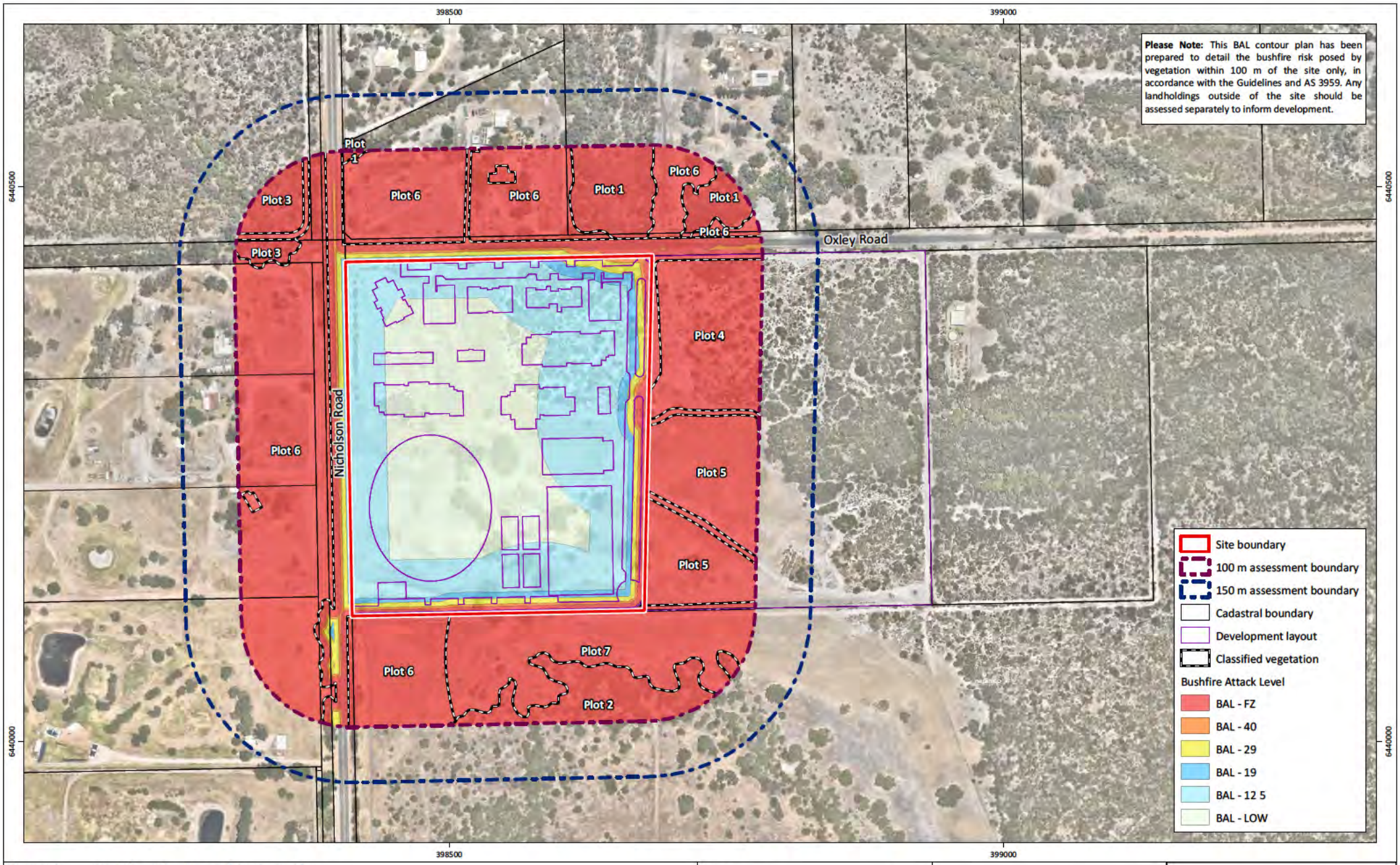


Figure 3: **Bushfire Attack Level Contour Plan**

Project: Bushfire Management Plan
Nicholson Road Forrestdale School Development Support

Client: Australian Islamic Colleges

Plan Number:
EP20-126(03)--F30

Drawn:	GAR
Date:	23/06/2021
Checked:	DAE
Approved:	JDH
Date:	29/06/2021

N

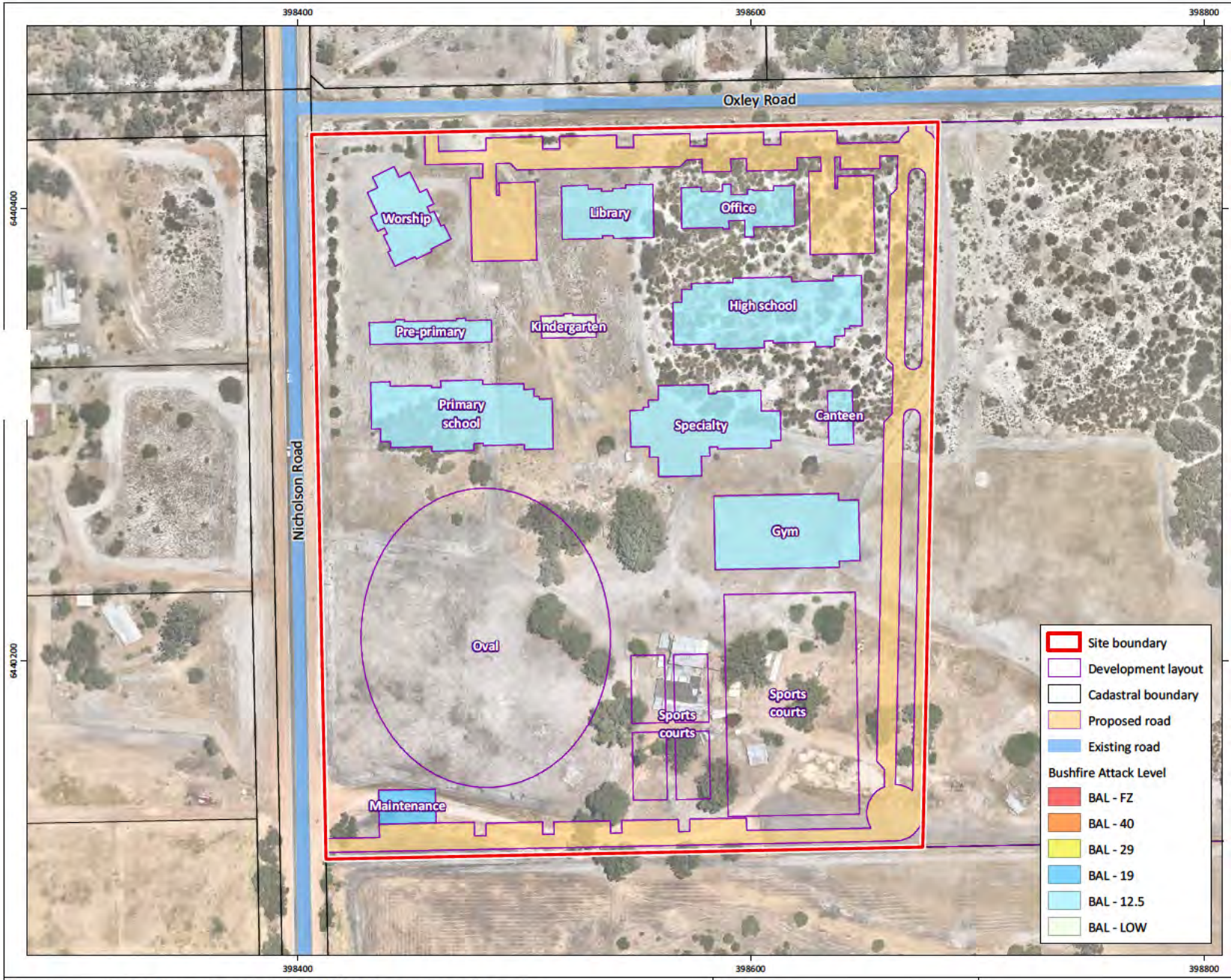
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Metres

Scale: 1:4,500@A4

GDA 1994 MGA Zone 50

emerge ASSOCIATES

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1. Maintain site to APZ standards in accordance with Schedule 1 of the Guidelines.

2. Install access to minimum standards of Appendix 4 of the Guidelines.

3. Install water hydrants to minimum standards of the Water Corporation and City.

Figure 4: Spatial Representation of Bushfire Management Strategies

Project:	Bushfire Management Plan Nicholson Road Forrestdale School Development Support
Client:	Australian Islamic Colleges

Plan Number:
EP20-126(03)--F31

Drawn:	GAR
Date:	23/06/2021
Checked:	DAE
Approved:	JDH
Date:	29/06/2021

N

0 50 100
Metres
Scale: 1:2,500@A4
GDA 1994 MGA Zone 50

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Appendix A

Development Plans (Marocchi Engineering Group 2021)

Appendix B

Landscape Master Plan (Propagule 2021)

OXLEY ROAD

NICHOLSON ROAD

FUTURE ROAD WIDENING BY OTHERS (9m)

WORSHIP

LIBRARY

ADMINISTRATION

PRE-PRIMARY

KG

HIGH

PRIMARY

SPECIALTY

CANTEEN

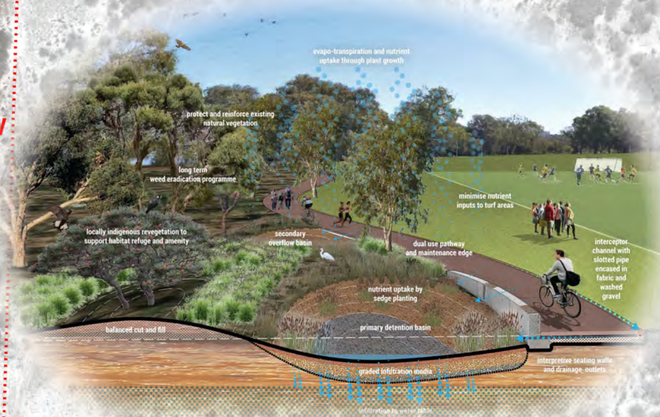
GYM

MAINTENANCE

HV

HV

NUTRIENT STRIPPING BASINS



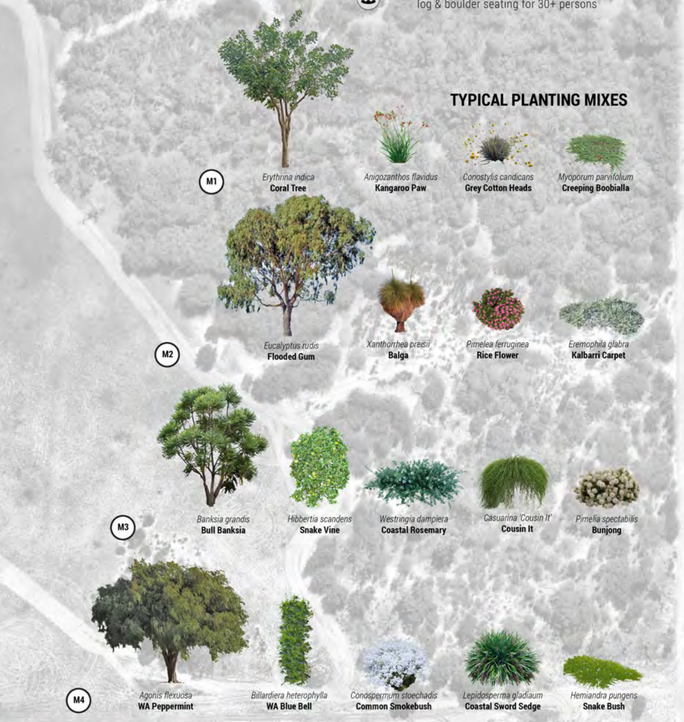
LEGEND

- **PEDESTRIAN PAVING** exposed aggregate concrete | feature entry paving
- **CONSOLIDATED GRANULAR PAVING** summerstone fines | cracked pea gravel
- **ASPHALT PAVING** red asphalt with concrete edge
- **COMPOSITE DECKING** light warm tone | termite-proof substructure
- **SYNTHETIC TURF** laid flush with adjoining surface
- **WAYFINDING SIGNAGE** artworks | corporate | directional signage
- **BOUNDARY FENCE** 2.4m garrison fence | stone wall alcoves
- **COVERED WALKWAY** refer architects drawings for detail
- **PARKING FACILITIES** refer civil for details
- **STORMWATER DETENTION BASIN** incorporating WSUD principles
- **MULTI-COURT** futsal | basketball | netball | handball
- **NATURE PLAY GATHERING NODE** log hops & boulder balance interactives
- **SEATING | INFORMAL GATHERING** bench seating | aluminium battens
- **BICYCLE STORAGE** secure bike racks and storage
- **PRODUCTIVE KITCHEN GARDEN** fressh fruit, herbs and vegetatbles
- **OUTDOOR LEARNING / MEETING NODE** log & boulder seating for 30+ persons

LANDSCAPE & IRRIGATION MANAGEMENT

- **EXISTING TREES RETAINED** retain all trees on eastern lot | protect to AS 4970
- **EXISTING TREES REMOVE** 50 trees to be removed | retain logs for nature play
- **PROPOSED TREES** 286 trees proposed (30 - 200L pot size) low phoshorous, slow release fertiliser only
- **MASS PLANTING | REHABILITATION** 1.8 Ha (tubestock @ 4 plants per sqm) low phoshorous, slow release fertiliser only
- **NATURAL TURF** 1.85 Ha (roll on kikuyu) low phoshorous, slow release fertiliser only
- **DRIP IRRIGATION THROUGHOUT** in-line drip system | subsurface
- **BUBBLERS TO TREES** 1 - 3 bubblers per tree dependent on size
- **PASSIVE IRRIGATION** direct storm water to gardens before drains
- **HYDROZONING** designed with water demand calibrated stations
- **SOIL MOISTURE SENSORS** smart system to respond to soil moisture levels
- **RAIN SENSORS** smart system to respond to prevailing weather
- **OVERHEAD SPRINKLERS TO TURF ONLY** minimise water use, overspray & evaporation

TYPICAL PLANTING MIXES



AUSTRALIAN ISLAMIC COLLEGE

propagule

AUSTRALIAN ISLAMIC COLLEGE **FORRESTDALE CAMPUS**
FORRESTDALE, WA

LANDSCAPE MASTER PLAN

0 10 20 30 40 50m

AUTHOR:	JC
CHECKED:	NS
PROJECT NO:	P20-058
SCALE:	1:1000 @ A2
DATE:	20.10.2021

Bushfire Emergency Evacuation Plan

Nicholson Road Forrestdale Development Support

Project No: EP20-126(04)

Prepared for Australian Islamic College (Perth) Inc
July 2021



Document Control

Doc name:	Bushfire Emergency Evacuation Plan Nicholson Road Forrestdale Development Support				
Doc no.:	EP20-126(04)--006 DAE				
Version	Date	Author		Reviewer	
1	July 2021	Dana Elphinstone	DAE	Anthony Rowe	AJR
	Submitted for client review.				

Accreditation

This Bushfire Emergency Evacuation Plan has been reviewed by Anthony Rowe, an accredited Level 3 Bushfire Planning and Design (BPAD) practitioner (accreditation number: BPAD 36690) under the Fire Protection Association of Australia's (FPAA) Western Australian accreditation scheme.

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1 Introduction

Australian Islamic College (Perth) Inc is seeking to lodge a development application for the construction of a new Australian Islamic College (herein referred to as 'the college') within Lot 15, Nicholson Road (an area herein referred to as 'the site') in the locality of Forrestdale within the City of Armadale. The site is bound by remnant vegetation to the east and south, and rural land to the north and west.

The college will provide education for several age groups including kindergarten, pre-primary, primary and high school. People under the age of 18 years may be less able to respond independently to a bushfire emergency. Therefore the college requires the development of an effective and comprehensive plan for evacuation.

This document seeks to mitigate and manage the risk associated with a bushfire emergency threatening the college. It has been prepared to satisfy the requirements of the *State Planning Policy 3.7 Planning in Bushfire Prone Areas* (SPP 3.7) (WAPC 2015) and has been prepared in accordance with *Australian Standard 3745-2010 Planning for emergencies in facilities* (AS 3745) (Standards Australia 2010).

This document details the components, personnel functions and implementations of evacuation procedures.

2 Outline of the Bushfire Emergency Evacuation Plan

2.1 Purpose of the Bushfire Emergency Evacuation Plan

The purpose of this Bushfire Emergency Evacuation Plan (BEEP) is to provide guidance and direction to all students, staff and visitors by providing:

- Information, advice and means to prepare for a bushfire emergency; and
- Actions to be taken in the event of a bushfire emergency.

It is relevant to note the college is likely to have a broader Emergencies in Facilities Plan prepared in accordance with AS 3745 (Standards Australia 2010) which identifies the various hazards applicable to the operation of the college, including but not limited to, fire (internal), explosion, smoke, bomb threats, armed threat/robbery, missing persons, earthquakes, flood / severe storm/cyclone, motor vehicle accident, hazardous material spill, civil disorder, and bushfire etc.

To address the requirements of SPP 3.7 (WAPC 2015), this BEEP has been prepared to specifically consider a bushfire event in the context of the risk identified within the Bushfire Management Plan (Emerge Associates 2021), and used to augment the college's Emergencies in Facilities Plan. The BEEP has been prepared in accordance with the Department of Planning Lands and Heritage *Guide to Developing a Bushfire Emergency Evacuation Plan* (DPLH 2019a).

This BEEP describes the process to be followed in the event of an emergency situation caused by an imminent threat from bushfire only, with other emergency procedures to be established as part of the college's operations. It should be regarded as a 'living document' with guidelines that can be adapted to changing circumstances.

The BEEP is intended to be used by the college to:

- Outline key emergency features relevant for a bushfire event, see **Section 3**.
- Define the functions, roles and responsibilities of staff in a bushfire emergency, see **Section 4**.
- Establish ongoing education and training as part of the overall strategy, see **Section 5**.
- Provide procedures to evacuate students, staff and visitors in the event of a bushfire, see **Section 6**.

Critical to an effective evacuation is appropriate planning. This includes identifying staff functions, resources needed, arrangements and documentation. Importantly an established plan needs to be practiced.

Control and coordination are critical to effective evacuation of all stages in the evacuation process. This is especially the case where fire impact is imminent and immediate evacuation is required, as there may not be time for emergency agencies to assist in an evacuation. In this context, the responsibility to affect the safe evacuation and direction, need to be assigned and understood by management and staff.

Other roles and responsibilities, such as traffic management and student and visitor control need to be assigned and understood by management and staff.

The BEEP specifically addresses the personal safety and survival of people present at the time of a bushfire emergency and is not concerned with the protection of property.

2.2 Policies, guidelines and standards informing the Bushfire Emergency Evacuation Plan

This BEEP is based on guidance provided in the following:

- Australian Standard 3745-2010, Planning for Emergencies in Facilities (Standards Australia 2010)
- Guidelines for Planning in Bushfire Prone Areas Version 1.3 (WAPC and DFES 2017).

2.3 Distribution of the Bushfire Emergency Evacuation Plan

The BEEP is an internal document, to be used by college staff to guide evacuation procedures, with an up-to-date copy of the document to be maintained within the administration building and to be provided to all staff.

All permanent staff at the college will be briefed on the emergency response protocols and procedures, with an up-to-date copy of the Bushfire Emergency Evacuation Plan (provided in **Appendix F**), which is to be displayed at appropriate locations across the college.

3 Emergency Features Relevant to the Bushfire Emergency Evacuation Plan

3.1 Firefighting equipment

The college will have onsite firefighting equipment that will be available for emergency personnel, including:

- Fire extinguishers.
- Fire hose reels.
- Fire booster.

Additional equipment that may be required in the case of a bushfire emergency may include:

- Evacuation maps and diagrams.
- Goggles.
- Walkie talkies/handheld radios (VHF).
- Satellite phones.

All equipment should be maintained annually (as a minimum) in accordance with equipment specifications and the relevant standards, including (but not limited to) *Australian Standard 1851 – 2005 Maintenance of Fire Protection Equipment* (Standards Australia 2012). Any large-scale bushfire events should be reported to emergency services who will coordinate the overall response, while college personnel coordinate the safe internal response (i.e. evacuation) as needed.

3.2 Vehicular access

The college will be accessible by two roads, Nicholson Road to the west and Oxley Road to the north. Car park areas are located in the north, east and south of the site which can be accessed from Nicholson Road and Oxley Road.

Students can arrive at the college through a variety of means, including walking, cycling, public transport and private vehicles.

It is not expected that there will be sufficient private vehicles within the college to facilitate an evacuation of all students.

Supplementary vehicle support, such as buses, will be required for evacuation and the arrangements for supplementary vehicle support are to be determined before the commencement of each bushfire season.

3.3 Condition of grounds and buildings

The college shall be maintained in a low threat state (AS3959-2018, cl. 2.2.3.2(e) and 2.2.3.2(f)) and flammable objects should not be placed in proximity to any college buildings that may increase their risk of ignition.

The college buildings and grounds should be inspected prior to the commencement of the bushfire season (by 1 October each year). A seasonal works checklist is attached to **Appendix G**.

Additionally, the event management should be prepared prior to the commencement of the bushfire season (by 1 October each year). A seasonal management checklist is attached in **Appendix H**.

In addition to the seasonal assessment, on the mornings of predicted Extreme or Catastrophic Fire Danger Rating (FDR) days, the college grounds should be inspected, to ensure there are no flammable materials against or in proximity to the buildings.

4 Roles and Responsibilities

4.1 Emergency Planning Committee

Should there not be an existing **Emergency Planning Committee** ('the Committee'), the college shall establish one, and should be comprised of the college Emergency Response Team, and college board members.

The Committee is responsible for overseeing the preparation of the college buildings and grounds for the approaching bushfire season, including attendance to any maintenance required to minimise the risk of damage from bushfire attack (**Appendix G**).

The Committee is responsible for reviewing the BEEP and broader Emergency Response Plan, overseeing the undertaking of education and training, evaluating the outcomes of drills and responses (when applicable), and ensuring appropriate resources are provided to maintain equipment. This includes ensuring that college mobile phones are registered on the Emergency Alert system.

The Committee will assign roles and responsibilities to staff.

4.2 Emergency Response Team

The college is to establish an **Emergency Response Team**, who are designated college personnel who have been trained and certified to undertake/provide specific tasks in the event of an emergency, including the operation of firefighting equipment.

The college Emergency Response Team shall comprise of the following positions:

- Chief Warden (which is generally the college Principal).
- Deputy Chief Warden (which is generally the Deputy Principal).
- Area Warden.
- First Aid Personnel.
- Traffic Warden.
- Communications Officer.

4.3 Roles of Evacuation Managers

In planning for the event of a bushfire emergency, the following roles should be assigned, with the Chief Warden usually filled by the college Principal.

4.3.1 Chief Warden

The Chief Warden is responsible for:

- Evaluating the need for evacuation.
- Initiating the evacuation.
- Coordinating and supervising the evacuation to the safer place.
- Supervising the emergency response from the covered assembly building as the control building.
- As required, advising authorities that an evacuation is underway – including DFES and the City of Armadale fire and emergency services manager.
- Documenting the circumstances of the emergency, processes and outcome.
- Checking on Extreme and Catastrophic FDR days that flammable materials are not located against or close to buildings, including litter, grass and leaves, and rubbish bins.
- Checking on Extreme and Catastrophic FDR days that firefighting equipment is ready and that the safer place has the required equipment for communication, safety (including first aid equipment) and comfort.

4.3.2 Deputy Chief Warden

The Deputy Chief Warden is responsible for:

- Taking direction from and carrying out tasks allocated by the Chief Warden.
- Checking all buildings/facilities.
- Ensuring all students, staff and visitors have been alerted and evacuation has been initiated.
- Maintaining communication with and updating the Chief Warden with situation reports.
- Providing situational information.
- Contributing to debriefing.

4.3.3 Area Wardens

Area Wardens are responsible for:

- Taking direction from and carrying out tasks allocated by the Chief Warden.
- Checking all buildings/facilities.
- Ensuring all students, staff and visitors have been alerted and evacuation has been initiated.
- Maintaining communication with and updating the Chief Warden with situation reports.
- Providing situational information.
- Contributing to debriefing.

All permanent staff are to be trained in the role of Area Warden.

4.3.4 First Aid Personnel

First Aid Personnel, under the direction of the Chief Warden or Area Warden are responsible for:

- Evaluating the extent of any injuries.
- Administer first aid (only where safe to do so).
- Assess if the injured can be evacuated safely.

4.3.5 Traffic Warden

The Traffic Warden is responsible for:

- Together with the Chief Warden, arrange for the coordination and supply of additional transport, buses and pick up.

Ensuring an orderly evacuation onto Nicholson Road if the decision is made to evacuate the college.

- Managing the access and placement of Area Wardens to co-ordinate vehicles to safely leave the college during a bushfire event.
- Coordinating traffic flows on the college grounds during a bushfire evacuation.

4.3.6 Communications Officer

The Communications Officer is responsible for:

- Taking direction from and carrying out tasks allocated by the Chief Warden.
- Maintaining communication with and updating the Chief Warden with situation reports.
- Providing situational updates to parents and guardians.

4.3.7 Emergency Response Team Identification

The control of a bushfire emergency is greatly assisted by key personnel being quickly identified by students, staff, visitors and emergency services. **Table 1** below outlines the tabards and/or helmets to be worn by the Emergency Response Team to enable them to be identified.

Table 1: Summary of Emergency Response Team identification

Wearers Title	Identification colour
Chief Warden	White helmet
Deputy Chief Warden	White helmet
Area Warden	Red helmet
First Aid Personnel	Green Helmet or green armband

5 Preparation and Actions

The actions outlined below relate specifically to bushfire evacuation and should be managed in the context of the broader Emergency Response Plan for the college.

5.1 Training requirements

All Wardens, staff and other responsible personnel working at the college should attend a bushfire evacuation session with a qualified Bushfire Risk Consultant to be informed of and trained in relation to:

- All information contained in this document.
- Individual roles and responsibilities.
- Access and egress routes.
- Assembly point locations.
- Written evacuation procedures applicable to the process.
- Communication equipment.

All those who have received bushfire training should formally acknowledge that they have read and understood the emergency evacuation procedures, understand their role and responsibilities and whether any questions relating to the evacuation procedure were adequately answered.

5.2 Exercise drills

Evacuation to the assembly building shall be practised annually.

Staff briefing shall occur prior to each such drill and a debriefing should follow any drill or bushfire event to discuss any issues regarding the implementation of the plan.

5.3 Maintenance of equipment

The communications systems and water supply infrastructure will be regularly checked, tested and serviced according to college servicing schedules, and in accordance with *Australian Standard 1851-2012 Routine service of fire protection systems and equipment* (AS 1851) (Standards Australia 2012).

5.3.1 Evacuation plan review

This plan should be treated as a 'living document' and reviewed and revised (if required) prior to each bushfire season (which is from October to May of each year).

In addition to this annual review, a review of the plan and response of the college personnel, students and visitors should be undertaken following any bushfire in the area and or after an evacuation.

6 Evacuation Plan

6.1 Communication

The college Emergency Response Team will communicate during a bushfire event using two-way handheld radios/walkie talkies.

Contact with emergency authorities will be maintained through cellular/mobile telephone. All college mobile phones need to be registered with the State Governments State Alert System. The Chief Warden should have access to a satellite phone in the event that a bushfire disrupts cellular reception.

Visitors will be informed of a bushfire event that may impact the college and any action required via a loudspeaker system and/or via Area Wardens moving through the college and communicating face to face.

6.2 Evacuation Process

The Chief Warden is responsible for deciding whether an evacuation is necessary and should take the following into consideration when determining if and when to evacuate:

- The advice from Emergency Services, including public warnings.
- The severity of a bushfire incident, the proximity of the bushfire and predicted fire spread (i.e. smoke, embers and radiant heat).
- The safety of evacuation routes.

The process that should be followed involves:

- Daily recording of Fire Danger Rating and weather conditions, during the bush fire season.
- Monitoring to establish the extent of bushfire danger (Fire Danger Ratings) and to identify bushfires in the area.
- Determining whether the bushfire is a potential threat.
- When it is determined that a bushfire is a threat to the college, an alarm is to sound and children should be moved calmly to the covered assembly building.
- Evacuate away from the threat to a safer place (designated by the emergency authorities or local government).

The monitoring process to implement the evacuation of the facility in the event of a bushfire is outlined below.

6.2.1 Monitoring for bushfires

Receiving a warning of an approaching fire is enhanced by actively monitoring communications over the internet (i.e. EmergencyWA) and ABC radio and observing the environment surrounding the college.

It is common for the first indication that a bushfire is burning nearby to observe smoke in the surroundings.

Fire Danger Ratings provide advice on the level of bushfire threat on any given day and are based on the forecast daily fire danger indices (which include consideration of forecast wind speed, temperature, humidity and fuel conditions). There are seven FDRs ('low', 'moderate', 'high', 'very high', 'severe', 'extreme' or 'catastrophic', which provide an indication of how difficult a bushfire will be for authorities to extinguish and on what days bushfires are going to pose the greatest threat to property and lives.

The forecasted FDR can be accessed online through the Department of Fire and Emergency Services or Bureau of Meteorology websites.

On days when the FDR is 'high' or above, bushfires can be unpredictable and uncontrollable, and these days trigger basic preparation and monitoring procedures.

Monitoring involves accessing websites (i.e. those of DFES and the Department of Biodiversity Conservation and Attractions) and listening to the emergency services broadcaster 720 ABC radio at regular intervals throughout the day.

In addition to FDRs, where a bushfire occurs, the Department of Fire and Emergency Services has three levels of warnings that escalate to reflect the increased risk to life from a bushfire and the decreasing amount of time people have until the bushfire arrives. The three warning levels are:

- Advice;
- Watch and Act; and
- Emergency.

In the event that an Advice Warning is received at the college for an approaching bushfire, staff and visitors should be notified of the potential need to evacuate; through the sounding of an alarm.

If a Watch and Act warning is received, it is recommended that consideration be given to evacuation on the advice of emergency services. Wardens should check the grounds to ensure the entry and exit lanes to the college are clear and that potentially flammable objects are moved away from buildings or stored.

If an Emergency Warning is received evacuation should be undertaken if advised by DFES that it is safe to do so, over the next 90 minutes, and following the safe route identified by DFES.

An 'all clear' message means the danger has passed and the fire is under control. Although it is possible that it still may not be safe to return to the college and/or evacuate the college, the Emergency Services will advise the Chief Warden when it is safe to do so

The Chief Warden, when advised it is safe to do so will direct the Communications Officer to advise parents of the student the collection arrangement and for the bus transport to resume.

Importantly, early detection of a bushfire's location provides everyone with the best opportunity to evacuate early. Warning of a bushfire may be provided by emergency authorities, but this is not guaranteed.

6.2.2 Evacuation triggers

The key to a safe evacuation is leaving early, this means long before the college or evacuation roads come under bushfire attack.

Within the college, the following are triggers for evacuation:

- Receipt of an official warning to evacuate from the emergency authorities. Monitoring of the EmergencyWA web page (https://www.emergency.wa.gov.au/) at regular intervals must occur (outlined in Section 6.3.1).
- When it is judged by the Chief Warden, or delegate, that a bushfire has the potential to impact the college.

Advice may be provided by emergency authorities to self-evacuate which greatly assists because it confirms the safety of evacuation routes and makes the process relatively straightforward. The Emergency Alert Telephone warning system is used during an emergency to send messages to registered landline and mobile phones within a defined area where lives and homes are deemed to be under direct and imminent threat from a bushfire. These warnings should trigger an evacuation if they are received in a timely manner. These official warnings however must be assessed against the local conditions before evacuation is undertaken.

6.2.3 Implementation of evacuation

Early evacuation is the safest response in a bushfire event. Late evacuation is a dangerous response. The following procedures shall be implemented:

- Determine the route to be used for evacuation. Note, all students, staff and visitors are to evacuate to the public road unless specifically ordered by the Chief Warden or by the emergency authority (i.e. firefighters/police) to do otherwise.
- Advise emergency authorities of the decision to evacuate and the proposed route.
- Notify Area Wardens and staff that a bushfire evacuation is underway.
- Students, staff and visitors to be informed and organised for evacuation by responsible Area Wardens.
- Nominated Area Wardens are to ensure the college is completely evacuated before the site is secured.
- Evacuate away from the threat to a safer place (designated by the emergency authorities or local government).

6.2.4 Phasing of evacuation

To facilitate the orderly evacuation of the college, the departure of students and staff should be phased if necessary, depending upon the number of people present on site and the resources available. This can be achieved by:

- Evacuating the most vulnerable students first such as the disabled or likely to have breathing difficulty, followed by age group.
- Pre-arranged arrangements with bus companies.
- Using private vehicles to evacuate the college.

Evacuating People with Disabilities

For the purposes of these evacuation procedures, people are considered to be disabled if they are unable to evacuate the college or a building without assistance, or if their time to exit the college or building would be much greater than the average student.

The Chief Warden should make arrangements for another person to be assigned to assist the disabled person in an emergency. This assigned person will assist the disabled person to the designated emergency assembly area.

6.2.5 Evacuation vehicles

Responsibility in this area rests with the Traffic Warden. It is intended that evacuation will be through the use of buses. Staff vehicles may be used to assist the evacuation of priority students. Ambulances may be required to assist any student with special needs/disabilities.

The college must be aware if there is sufficient vehicle capacity (i.e. arrangements with bus companies) every day during the bushfire season (between November and April each year) to be able to evacuate every person from the college at all times.

7 Shelter

Sheltering onsite may be required if evacuation is not possible, and ideally a shelter would meet the community refuge standards. The Department of Planning Lands and Heritage (DPLH) *Position Statement: Tourism land uses within bushfire prone areas* (DPLH 2019b) requires "*Where a building is to function as an on-site shelter, there must be sufficient separation distance from the predominant bushfire prone vegetation to avoid exposure to a radiant heat flux exceeding 10kW/m2 (with an assumed flame temperature of 1200K); or where an open space area is to function as an on-site shelter, there must be sufficient separation distance from the predominant bushfire prone vegetation to avoid exposure to a radiant heat flux exceeding 2kW/m2 (with an assumed flame temperature of 1200K)*". An assessment under method 2 of AS 3959 would determine whether any buildings can achieve BAL-10. Notwithstanding, the site has a large outdoor area subject to BAL-LOW and this would be suitable as a safer place. However, if shelter is required due to external conditions such as falling embers posing a risk of injury, or the need to provide shelter from the sun, then a building constructed to BAL-12.5 could be used. Multiple buildings on site are able to achieve the necessary BAL-12.5 separation. The BMP requires that the gym (refuge building) be constructed to BAL-12.5, despite the additional constructions standards not being required to meet the building requirements for this class of building, and on this basis would be the preferred building to be used as a covered safer place

The shelter building should house the first aid equipment and facilities for staff trained to fight small fires. This equipment will include (but is not limited to) goggles and smoke masks, in addition to extinguishers. Additional equipment required to ensure the covered assembly building can function as the control building includes ensuring that a list of key contacts is available at all times, in addition to ensuring that at least one member of staff has a mobile phone during an emergency.

If a decision to shelter onsite is required the assembly area provides the lowest radiant heat exposure on the site. If the outdoor area is untenable, students, staff and visitors will shelter in the gym building, as shown in Bushfire Emergency Evacuation Plan provided in **Appendix F**.

For sheltering onsite, the following will be undertaken:

- Advise emergency authorities of the decision to shelter onsite.
- Notify all staff of the decision to shelter onsite.
- Sound the alarm and calmly move students, staff and visitors from the site to the gym building.
- Nominated Area Wardens to ensure that all students, staff and visitors have moved to the gym building.

The buildings may be subject to ember attack that may last for many hours. Embers may cause fires on-site that threaten lives. The Chief Warden and Deputy Chief Wardens must therefore be prepared when sheltering with staff and visitors to keep calm and methodically look for embers or small fires and extinguish using fire-fighting equipment provided on-site.

After the fire front has passed, the Chief Warden and Deputy Warden should:

- Inspect the safer place and extinguish small fires using firefighting equipment provided at the site (where safe to do so).
- Inspect the remainder of the site and extinguish small fires using firefighting equipment provided at the site (where safe to do so).
- Monitor site for small fires for 24 hours after the fire.

8 References

8.1 General references

Department of Planning, Lands and Heritage (DPLH) 2019a, *A Guide to developing a Bushfire Emergency Evacuation Plan*, Western Australian Planning Commission.

Department of Planning, Lands and Heritage (DPLH) 2019b, *Position Stratement: Tourism land uses in bushfire prone areas*, Western Australian Planning Commission, Perth, Western Australia.

Standards Australia 2010, *Australian Standard 3745-2010 Planning for emergencies in facilities (AS 3745-2010)*, SAI Global Limited, Sydney.

Standards Australia 2012, *Australian Standard 1851-2012 Routine service of fire protection systems and equipment (AS 1851-2012)*, SAI Global Limited, Sydney.

Western Australian Planning Commission (WAPC) 2015, *State Planning Policy 3.7 Planning in Bushfire Prone Areas*, Perth.

Western Australian Planning Commission and Department of Fire and Emergency Services (WAPC and DFES) 2017, *Guidelines for Planning in Bushfire Prone Areas Version 1.3*, Western Australia. December 2017.

Appendix A

List of Emergency Control Personnel

Appendix A: List of Emergency Control Personnel

Function	Name
Chief Warden	
Deputy Chief Warden	
Area Warden	
First Aid Personnel	
Traffic Warden	
Communications Officer	

Appendix B

Emergency contacts

Appendix B: Emergency Contacts

General Emergency	
Police	
Department of Fire and Emergency Services (DFES)	
Water	
Gas	
Electricity	

Appendix C

Review of Emergency Plan

Appendix C: Review of Emergency Plan

Date	Plan reviewed	Modification requested	Action procedures practiced	Responsible person	
		Yes/no	Yes/no	Name	Signature

Appendix D

Details of fire warning levels

Appendix D: Fire warning levels

BUSHFIRE WARNINGS: WHAT SHOULD YOU DO?

ALERT LEVEL	WHEN WILL IT BE ISSUED?	WHAT SHOULD YOU DO?
ADVICE **Be aware and keep up to date** issued at 11am and 4pm unless the situation changes	• When a fire has started but there is no immediate danger • There is no threat to lives and homes • The fire is likely to be small and may be causing smoke near homes • Firefighters will be able to control the fire	**You need to be aware** • Stay alert and monitor your surroundings by watching for signs of a bushfire, especially smoke and flames • Check the Fire Danger Rating for your area • Close all doors and windows
WATCH AND ACT **Put your preparations into action – do not wait and see** issued **every two hours** unless the situation changes	• When a fire is approaching and conditions are changing • There is a possible threat to lives and homes • The fire will be out of control. There may be smoke and embers around your home and roads • Firefighters will be working with machines to put in containment lines to stop the fire spreading	**You need to leave or get ready to defend** • Put your bushfire survival plan into action • If you have decided to leave for a safer place, leave now and take your survival kit with you • Leave well before roads are closed and full of smoke
EMERGENCY WARNING **Take immediate action to survive – you will be impacted by fire** issued **every hour** unless the situation changes	• When there is immediate danger and the fire will impact your home • There is a threat to lives and homes • The fire will be out of control and moving very fast. This is the highest level of warning • Firefighters will find it difficult to control the fire and it will take significant firefighting resources and a change in conditions to bring it under control • A siren sound called the Standard Emergency Warning Signal (SEWS) may be used to get your attention on radio and television	**You need to act immediately to survive** • If you have not left yet and the way is clear leave immediately for your safer place and take your survival kit with you • If you have not prepared your home, it is too late to do it now. Your safest option is to leave for a safer place, if the way is clear • Do not relocate at the last minute in a vehicle or on foot as this is deadly, leave immediately if the way is clear
ALL CLEAR **Take care to avoid any dangers and keep up to date** issued when the threat has passed	• When the danger has passed and the fire is under control • Firefighters will be working to put the last bits of the fire out and make the area safe • It may still not be safe to return home. Emergency services will advise when you can go home	**You need to be careful** • Remain vigilant in case the situation changes • When driving in the fire area you should take extreme caution and drive slowly • Dangers like smoke, fallen trees and downed power lines may be on roads and emergency services will still be working in the area

Appendix E

Evacuation procedures

Appendix E: Evacuation procedures

To facilitate the orderly evacuation of the college, the departure of students, staff and visitors, should be phased if necessary, depending upon the number of occupants at the college and the resources available. This can be achieved by:

- Evacuating the most vulnerable people first.
- Teachers being responsible for their students.
- Using private staff vehicles if required to transport vulnerable people from the college first.

Implement the following procedures:

- Sound the audible alarm.
- Notify staff that a bushfire evacuation is underway
- Students, staff and visitors to be informed and organised for evacuation by Area Wardens; Close all windows and doors
- Assemble all students and personnel.
- Put transport plan into action.
- Determine the route to be used for evacuation.
- Advise emergency authorities of the decision to evacuate and proposed route;
- Nominated Area Wardens are to ensure the college is completely evacuated before the site is secured.
- Evacuate away from the threat - to a place not in a bushfire prone area.

IMPORTANT: If conditions change during an evacuation and the safety of the evacuation roads cannot be guaranteed, return to the college and shelter.

Appendix F

Bushfire Emergency Evacuation Plan

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BUSHFIRE EMERGENCY EVACUATION PLAN



ON ADVICE OF A BUSHFIRE THREAT

Turn off evaporative air conditioners.

Close roof vents and doors.

Assess situation and assign a member of supervising personnel to monitor website or information line (if DFES on 13 DFES (13 33 37) or www.dfes.wa.gov.au and Emergency WA website: www.emergency.wa.gov.au).

Check availability of vehicles including buses to evacuate occupants if required.

Account for occupants.

EMERGENCY WARNING or YOU NOTICE A BUSHFIRE

Seek instructions from the Emergency Services Incident Controller (managing the fire DFES) or the Police.

Ask for the safe route and nearby safe place.

If it is safe to evacuate – follow direction and **EVACUATE.**

Evacuate by vehicle – prioritise the vulnerable

TAKE SHELTER

If external conditions are hazardous or

If it is not safe to evacuate – **TAKE SHELTER**

- The assembly point will receive the lowest radiant heat as it is in BAL-LOW. If outdoor elements make this untenable move students, staff and visitors, to the gym (or other AS 3959 compliant building) as required.
- Close windows and blinds.
- Check student and visitor registers.
- Advise the Emergency Services Incident Controller on the location of students, staff and visitors.
- Monitor conditions in the building, keep calm, block smoke ingress, keep hydrated.
- Alight to transport as it arrives
- Monitor conditions in the building after the fire's passing – do not stay in a burning building
- Seek instructions from the Emergency Services Incident Controller (DFES)

ALL CLEAR

Seek instructions from the Emergency Services Incident Controller (DFES) – All clear.

Key Phone Numbers	
Emergency (Police, Ambulance, Fire)	000
DFES Information Line	13 33 37
Police (non-urgent)	13 14 44

ASSEMBLY POINT

Contacts	Name
Chief Warden	
Deputy Chief Warden	
Area Warden	
First Aid Personnel	
Communications Officer	
Traffic Warden	

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Appendix G

Seasonal Checklist

SEASONAL CHECKLIST - WORKS	COMPLIES (Y/N)
• Prune all vegetation in accordance with the Standards for Asset Protection Zones (*Schedule 1 Guidelines for planning in bushfire prone areas V1.3).* o TREES: No tall trees >5 m (trunk)s are to be within six (6) metres of a building and branches are not to overhang a building or be within three (3) metres. o SHRUBS: No shrubs or trees up to 3 m are to be within three (3) metres of a building. o GRASSES: No grasses within the college should exceed 100 mm and vegetation less than 0.5 m high is to be no closer than 2 m from the building.	
• Ensure all roof and building junctions are clear of litter.	
• Check all roofs presents no gaps greater than 2 mm. By external inspection or observation of daylight in the roof cavity. Screen any gaps (steel mesh 2 mm aperture) or fill with mineral wool or non-flammable sealant.	
• Ensure all building surfaces present no gaps greater than 2 mm, including deck boards.	
• Ensure all window and door screens are steel mesh 2 mm aperture and unbroken.	
• All buildings are free of flammable materials, none located within 3 m.	
• All objects attached to the buildings are non-combustible or easily removable, and the removing mechanism is in working order.	
• The hoses supplied for firefighting are protected from radiant heat (non-flammable fire reel cover) and are in working order.	
• Fire Extinguisher charge levels are in working order and the instructions on use is attached.	
• Smoke detectors are in working order.	
• The Evacuation Diagram is clearly displayed on immediately next to all external doors.	
• Emergency Contacts details are current and identified on the Evacuation Diagram.	
• Ensure induction details for personnel during the bushfire season are up to date.	
Date of inspection	

Appendix H

Preparation Checklist

MANAGEMENT PREPARATION CHECKLIST – BUSHFIRE SEASON	COMPLIES (Y/N)
• The Principal is thoroughly familiar with the Bushfire Emergency Evacuation Plan.	
• Ensure students, staff, relief staff and parents/carers have been made aware of the Bushfire Emergency Evacuation Plan.	
• Ensure parents are aware of the college's procedures during a bushfire.	
• Ensure supplementary transport arrangements have been established for assistance during a bushfire event.	
• Ensure the Bushfire Emergency Evacuation Plan is reviewed prior to the bushfire season.	
• Ensure the Principal and Communications Officer are liaising with the relevant authorities, including (but not limited to) the Department of Fire and Emergency Services, the Department of Biodiversity, Conservation and Attractions, WA Police, local volunteer fire brigade, local government representative.	
• Ensure the above authorities are aware of the safer place (covered assembly building) location.	
• Ensure evacuation drills are practiced prior to the start of the bushfire season and at least once per term during the bushfire season.	
• Check the Department of Fire and Emergency Services website for any alerts.	
Date of compliance	

Government of **Western Australia**
Development Assessment Panels

LG Ref: 10.2021.203.01
DAP Ref: DAP/21/02046

Enquiries: (08) 6551 9919

Ms Daniella Mrdja
Urbanista Town Planning
231 Bulwer Street
Perth WA 6000

Dear Ms Mrdja

METRO OUTER JDAP - CITY OF ARMADALE - DAP APPLICATION - 10.2021.203.01 - DETERMINATION

Property Location:	Lot 15 (651) Nicholson Road, Forrestdale
Application Details:	Proposed Educational Establishment and Place of Worship

Thank you for your Form 1 Development Assessment Panel (DAP) application and plans submitted to the City of Armadale on 28 July 2021 for the above-mentioned development.

This application was considered by the Metro Outer JDAP at its meeting held on 10 December 2021, where in accordance with the provisions of the City of Armadale Town Planning Scheme No.4, it was resolved to **approve** the application as per the attached notice of determination.

Should the applicant not be satisfied by this decision, an application may be made to amend or cancel this planning approval in accordance with regulation 17 and 17A of the *Planning and Development (Development Assessment Panels) Regulations 2011*.

Please also be advised that there is a right of review by the State Administrative Tribunal in accordance with Part 14 of the *Planning and Development Act 2005*. Such an application must be made within 28 days of the determination, in accordance with the *State Administrative Tribunal Act 2004*.

Should you have any queries with respect to the conditions of approval, please contact Mr Christopher Valentine on behalf of the City of Armadale on 9394 5405.

Yours sincerely,

DAP Secretariat

16 December 2021

Encl. DAP Determination Notice
Approved Plans

Cc: Mr Christopher Valentine
City of Armadale

Government of **Western Australia**
Development Assessment Panels

Planning and Development Act 2005

City of Armadale Town Planning Scheme No.4

Metro Outer Joint Development Assessment Panel

Determination on Development Assessment Panel Application for Planning Approval

Property Location: Lot 15 (651) Nicholson Road, Forrestdale
Application Details: Proposed Educational Establishment and Place of Worship

In accordance with regulation 8 of the *Planning and Development (Development Assessment Panels) Regulations 2011*, the above application for planning approval was **granted** on 10 December 2021, subject to the following:

Approve DAP Application reference DAP/21/02046 and accompanying plans in accordance with Clause 68 of Schedule 2 (Deemed Provisions) of the *Planning and Development (Local Planning Schemes) Regulations 2015 a*nd the provisions of the Metropolitan Region Scheme and the City of Armadale Town Planning Scheme No. 4 subject to the following conditions:

Conditions:

1. Prior to commencement of works, a fence restricting vehicle and pedestrian access to Bush Forever Site No. 345 is to be constructed to the specification of the Department of Biodiversity, Conservation and Attractions, on the Bush Forever Site boundary to protect native vegetation to the satisfaction of the City of Armadale.

2. The Educational Establishment and Place of Worship shall be constructed and implemented prior to occupation in accordance with the recommendations of the Acoustic Environmental Assessment dated July 2021 (Rev B) prepared by Hewshott Acoustics to the satisfaction of the City of Armadale.

3. Prior to the occupation of the development, an Acoustic Assessment addendum must be prepared and provided to the City of Armadale which demonstrates to the City's satisfaction, that the completed development complies with the *Environmental Protection (Noise) Regulations 1997*. The Final Acoustic Assessment must include the following information:

    a) noise sources compared with the assigned noise levels as stated in the *Environmental Protection (Noise) Regulations 1997*, when the noise is received at the nearest "noise sensitive premises" and surrounding residential area;

    b) tonality, modulation and impulsiveness of noise sources; and confirmation of the implementation of noise attenuation measures.

    Any further works required must be carried out in accordance with the final Acoustic Report and implemented as such for the duration of the development.

4. The Educational Establishment (including any after school hours care) is restricted to a maximum of 1000 children at any given time.

5. The Place of Worship shall not be used by members of the public during school operating hours.

6. The Place of Worship is restricted to a maximum of 500 occupants at any given time.

7. Sound amplification equipment shall not be used outdoors for worship practices.

8. An Operational Management Plan is to be prepared, and lodged with the City for approval addressing matters such as (but not limited to) litter, servicing, truck deliveries, operating hours for the Place of Worship and event management to the satisfaction of the City of Armadale. The plan shall be implemented to the satisfaction of the City of Armadale thereafter.

9. Prior to occupation, to meet vehicle manoeuvring space requirements the developer/owner shall, to the specifications and satisfaction of the City of Armadale:
   a) Construct/seal all such areas, including drainage and kerbing/marking where necessary, in accordance with the approved site plan;

   b) Relocate/remove any services/infrastructure as necessary;

   c) Remove any existing crossover(s) and reinstate all kerbing/footpaths/verge areas;

   d) Utilise brick paving or other high quality finish. Untreated concrete and black asphalt finishes are not permitted; and,

   Arrange for continuous maintenance of all such areas thereafter.

10. The intersection of Nicholson Road and Oxley Road shall be upgraded to a channelised sign-controlled intersection, in accordance with Austroads and other relevant standards, at the developer cost to the satisfaction of the City of Armadale prior to occupation of the development.

11. Oxley Road shall be upgraded at the developers cost from rural standard (sealed) to a residential standard (asphalted pavement), comparable to an Access Street C (Liveable Neighbourhoods) standard, from the intersection of Nicholson road to the primary entrance to the development to the satisfaction of the City of Armadale prior to occupation of the development.

12. The applicant shall prepare an Odour Analysis Report of potential poultry farm odour impacts upon the Place of Worship and implement the findings prior to commencement of the use.

13. Vehicular crossovers shall be completed to the specifications and satisfaction of the City of Armadale prior to occupation of the development.

14. Bin storage areas shall be conveniently located and screened from view, to the satisfaction of the City of Armadale.

15. Waste collection shall be carried out in accordance with the approved Waste Management Plan to the satisfaction of the City of Armadale.

16. To meet drainage requirements prior to commencement of works, the developer/owner shall, to the specifications and satisfaction of the City of Armadale:

    a) Submit a stormwater management plan incorporating water sensitive design principles for approval and implement the approved plan thereafter;

    b) Incorporate relevant measures pertaining to environmental protection;

    c) Show any drainage easements as may be required on the Certificate of Title in favour of the City; and

    d) Relocate, remove or upgrade any drainage infrastructure on the lot or within the adjoining road reserve that is impacted by the proposed development.

17. Any existing on-site effluent disposal system(s) including all tanks and pipes and associated drainage systems (soak wells or leach drains) are to be decommissioned and removed as per Part 2, Division 3 of the *Health (Treatment of Sewage and Disposal of Effluent and Liquid Waste) Regulations 197*4.

18. Prior to submission of a Building Permit, a schedule of external colours and materials shall be submitted and approved by the City of Armadale The development shall be completed and maintained in accordance with the approved schedule to the satisfaction of the City of Armadale.

19. Prior to commencement of works, a finalised landscape plan for non-revegetation areas shall be submitted to and approved by the City of Armadale. The landscape plan shall include:

    a) Plant species (West Australian natives);

    b) Numbers, location, container size;

    c) Method of irrigation of the landscaped areas;

    d) Landscaping and treatment of adjoining verge areas; and

    e) The provision of a boundary landscaping strip and shade trees within the car park at the rates of at least 1 tree per 10 metre interval along any line of car parking.

    All landscaping shall be installed prior to occupancy of the development and maintained as per the approved plan thereafter.

20. The Bushfire Management Plan submitted by Emerge Associates (October 2021), shall be revised following the completion of the REMP and implemented prior to occupation of the development and continuously implemented.

21. The Bushfire Emergency Evacuation Plan submitted by Emerge Associates (October 2021), shall be implemented prior to occupation of the development and continuously implemented.

22. An updated Environmental Assessment and Management Plan (REMP) shall be provided to the satisfaction of the City of Armadale. The revised EAMP will provide a targeted and specific program of works for the management of threats and environmental enhancement in accordance with Policy PLN 2.7 for the native plant communities shown in Figure 5 of the Environmental Assessment and Management Plan (Emerge Associates 2021) and Wetlands, UFI 7233 & UFI 7235 and their buffers shown on Figure 18 of the Environmental Assessment and Management Plan (Emerge Associates 2021). The EAMP will be implemented for the duration of the approved use within the site to the satisfaction of the City of Armadale.

23. Prior to commencement of works, an Irrigation and Nutrient Management Plan consistent with the detail recommended in the Environmental Assessment and Management Plan (Emerge 2021) shall be submitted to and approved by the City of Armadale. The development shall be implemented and maintained as per the approved management plans thereafter to the satisfaction of the City of Armadale.

24. Prior to the commencement of works, a Construction and Environmental Management Plan (CEMP) is to be prepared and submitted to the City of Armadale for approval. The Construction Management Plan shall be implemented to the satisfaction of the City of Armadale and detail how the construction of the development will be managed, including the following:

    a) Public safety and site security;

    b) Hours of operation;

    c) Dust management;

    d) Waste and material disposal;

    e) Traffic management plans for the various phases of the construction;

    f) Parking arrangements for contractors and sub-contractors;

    g) Delivery and access arrangements;

    h) The storage of materials and equipment on site (no storage of materials within the public realm will be permitted);

    i) Bonding and remediation arrangements;

    j) Measures to mitigate environmental impacts, including fauna relocation, dieback management, nutrient discharge and sediment and erosion control; and

    k) Any other matters likely to impact upon the surrounding properties or public realm.

25. Air conditioning units, compressors and other equipment related to utilities shall be screened from public view and positioned so as to avoid any adverse effects, including noise, on the occupants of nearby residential properties to the satisfaction of the City.

26. Outdoor storage areas shall be screened from public view and adjoining properties to the satisfaction of the Executive Director Development Services.

27. In accordance with the requirements of Local Planning Policy PLN 3.12 - Percent for Public Art, prior to the occupancy of the development, the applicant and/or landowner is to either:

    a. make a monetary contribution to the City of Armadale Public Art Reserve Account equal to one per cent (1%) of the estimated total development cost; or,

    b. install public art work on site to the value of one per cent (1%) of the total development cost and continuously maintain the public art work thereafter.

28. 'End of trip bicycle facilities' in accordance with Clause 4.11.1 and Schedule 7B of Town Planning Scheme No.4 shall be provided prior to occupation of the development in a location agreed to by the Executive Director Development Services and continuously maintained thereafter.

ADVICE TO APPLICANTS:

A. The applicant is advised that fencing associated with the proposed development, other than that specified under the condition relating to the Acoustic Assessment, is to comply with the requirements of the City of Armadale *Fencing Local Law 2011*.

B. With regard to the condition requiring a Stormwater Management Plan, Stormwater management should be in accordance with South Forrestdale Local Water Management Strategy.

C. The effluent disposal system is to be in accordance with the *Health (Treatment of Sewage and Disposal of Effluent and Liquid Waste) Regulations 1974* and the *Government Sewerage Policy 201*9.

D. The onsite effluent disposal system is to be adequate to treat waste water based on the relevant findings in the Site and Soil Evaluation for the site dated July 2021.

E. The subject site is affected by future road widening under the Metropolitan Region Scheme. No development of a permanent nature, such as buildings are supported within the portion of land zoned Other Regional Roads (Nicholson Road) under the Metropolitan Region Scheme.

F. The applicant is advised of the requirement to comply with the *Environmental Protection (Noise) Regulations 1997*.

G. In the event of asbestos cement products being removed during the demolition process the applicant is to comply with the *Environmental Protection (Controlled Waste) Regulations 2004* and the *Health (Asbestos) Regulations 1992*.

H. Lighting shall comply with Australian Standard 4282-1997 "Control of the obtrusive effects of outdoor lighting" or its equivalent and the City's *Environment, Animals and Nuisance Local Laws 2002*.

Where an approval has so lapsed, no development shall be carried out without further approval having first been sought and obtained, unless the applicant has applied and obtained Development Assessment Panel approval to extend the approval term under regulation 17(1)(a) or local government approval under regulation 17A of the *Planning and Development (Development Assessment Panels) Regulations 2011*.

DEVELOPMENT
ASSESSMENT PANEL

APPROVED

10-Dec-2021

AUSTRALIAN
ISLAMIC COLLEGE

propagule

AERIAL PERSPECTIVE RENDER

AUTHOR:	JC
CHECKED:	NS
PROJECT NO:	P20-058
SCALE:	NA
DATE:	01.07.2021

DEVELOPMENT
ASSESSMENT PANEL
APPROVED
10-Dec-2021



VEGETATED NEIGHBOURING VERGE TO BE RETAINED AND PROTECTED

GRAVEL SHOULDER (NO KERB)

OXLEY ROAD

GRAVEL SHOULDER (NO KERB)

INDIGENOUS REVEGETATION TO STREET VERGE (3 PLANTS / SQM)

GARRISON FENCE AND BLOCK PLINTH SCREENED BY VEGETATION

LOCAL WETLAND SPECIES AND SEDGES TO SWALES (3 PLANTS / SQM)

FLUSH KERB

TWO-WAY SERVICE AISLE

PARKING

BARRIER KERB

PATHWAY

SUSTAINABILITY STRATEGIES

- Retain rural character of streets with no kerbing and informal tree and shrub planting arrangements
- Naturalised bushland character to verges as visual screening and habitat
  6m gravel gaps every 20m for bushfire compliance
- Shallow swale to take localised drainage and provide passive irrigation to revegetation areas
- Sedges and trees well suited to nutrient stripping from stormwater to improve water quality to infiltration
- Shallow swale to take localised drainage and provide passive irrigation to revegetation areas
- Internal streets and parking to provide bushfire separation to campus perimeter
- Tree planting to carpark nibs to shade hardstand and reduce heat-island effect

AUSTRALIAN ISLAMIC COLLEGE

propagule

OXLEY ROAD STREETSCAPE | ILLUSTRATIVE CROSS SECTION

AUTHOR:	JC
CHECKED:	NS
PROJECT NO:	P20 058
SCALE:	not to scale
DATE:	20.10.2021

DEVELOPMENT
ASSESSMENT PANEL

APPROVED

10-Dec-2021



NICHOLSON ROAD STREETSCAPE ELEVATION
1:1000 @ A3



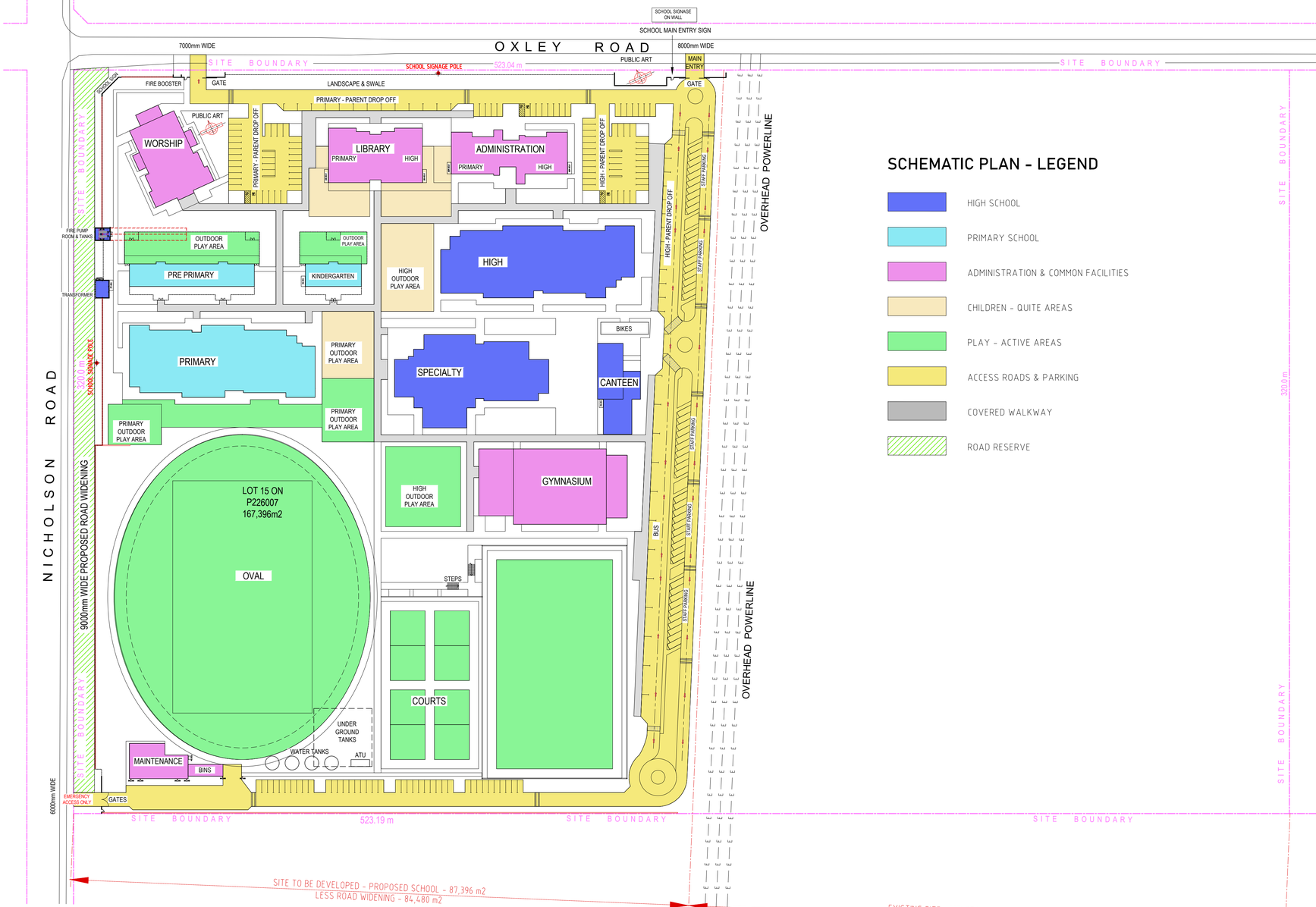
OXLEY ROAD STREETSCAPE ELEVATION
1:1000 @ A3



DEVELOPMENT ASSESSMENT PANEL

APPROVED

10-Dec-2021



SCHEMATIC PLAN - LEGEND

- HIGH SCHOOL
- PRIMARY SCHOOL
- ADMINISTRATION & COMMON FACILITIES
- CHILDREN - QUITE AREAS
- PLAY - ACTIVE AREAS
- ACCESS ROADS & PARKING
- COVERED WALKWAY
- ROAD RESERVE

LOCATION SITE - SCHEMATIC PROPOSED SITE PLAN

SCALE 1:1000 @A1

A I C FORRESTDALE

PROPOSED MASTER PLAN

NORTH

MAROCCHI engineering group
Suite 3, 158 Newcastle Street, Perth W.A. 6000
Tel. (08) 9328 5700

PROJECT

AUSTRALIAN ISLAMIC COLLEGE
LOT 15 (651) NICHOLSON ROAD
FORRESTDALE

SHEET

LOCATION SITE PLAN
SCHEMATIC - PROPOSED SITE PLAN

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CHECKED	NC	REV	D

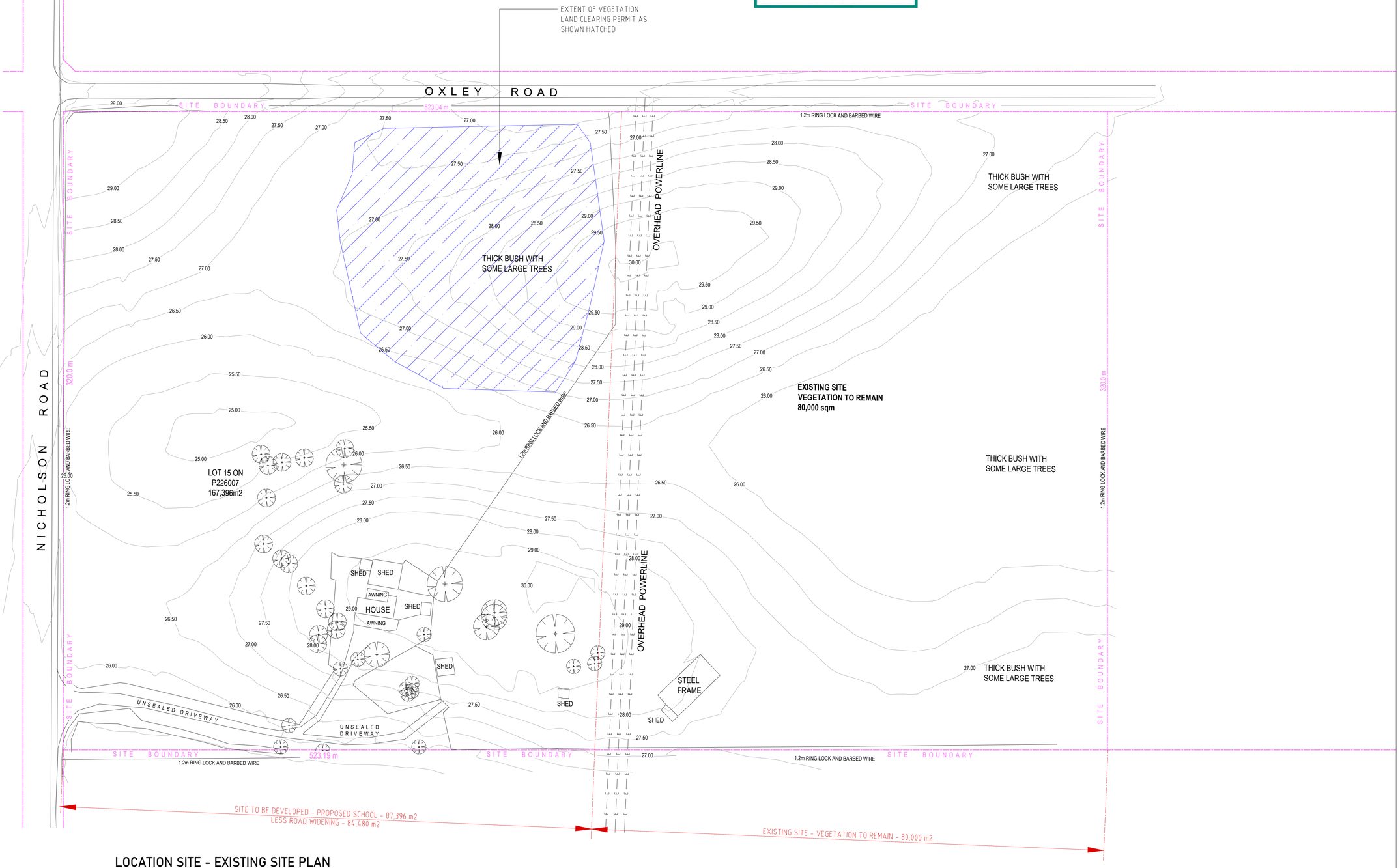
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B	22-10-2021	NS	COUNCIL DA ISSUE
A	28-06-2021	NS	COUNCIL DA ISSUE

20-371-DA01-1 SITE SCHEMATIC PROP.DWG 03.11.2021 12:31 PM

DEVELOPMENT ASSESSMENT PANEL

APPROVED

10-Dec-2021



LOCATION SITE - EXISTING SITE PLAN

SCALE 1:1000 @A1

A I C

FORRESTDALE

PROPOSED MASTER PLAN

NORTH

MAROCCHI engineering group
Suite 3, 158 Newcastle Street, Perth W.A. 6000
Tel. (08) 9328 5700

PROJECT

AUSTRALIAN ISLAMIC COLLEGE
LOT 15 (651) NICHOLSON ROAD
FORRESTDALE

SHEET

LOCATION SITE PLAN
EXISTING SITE PLAN

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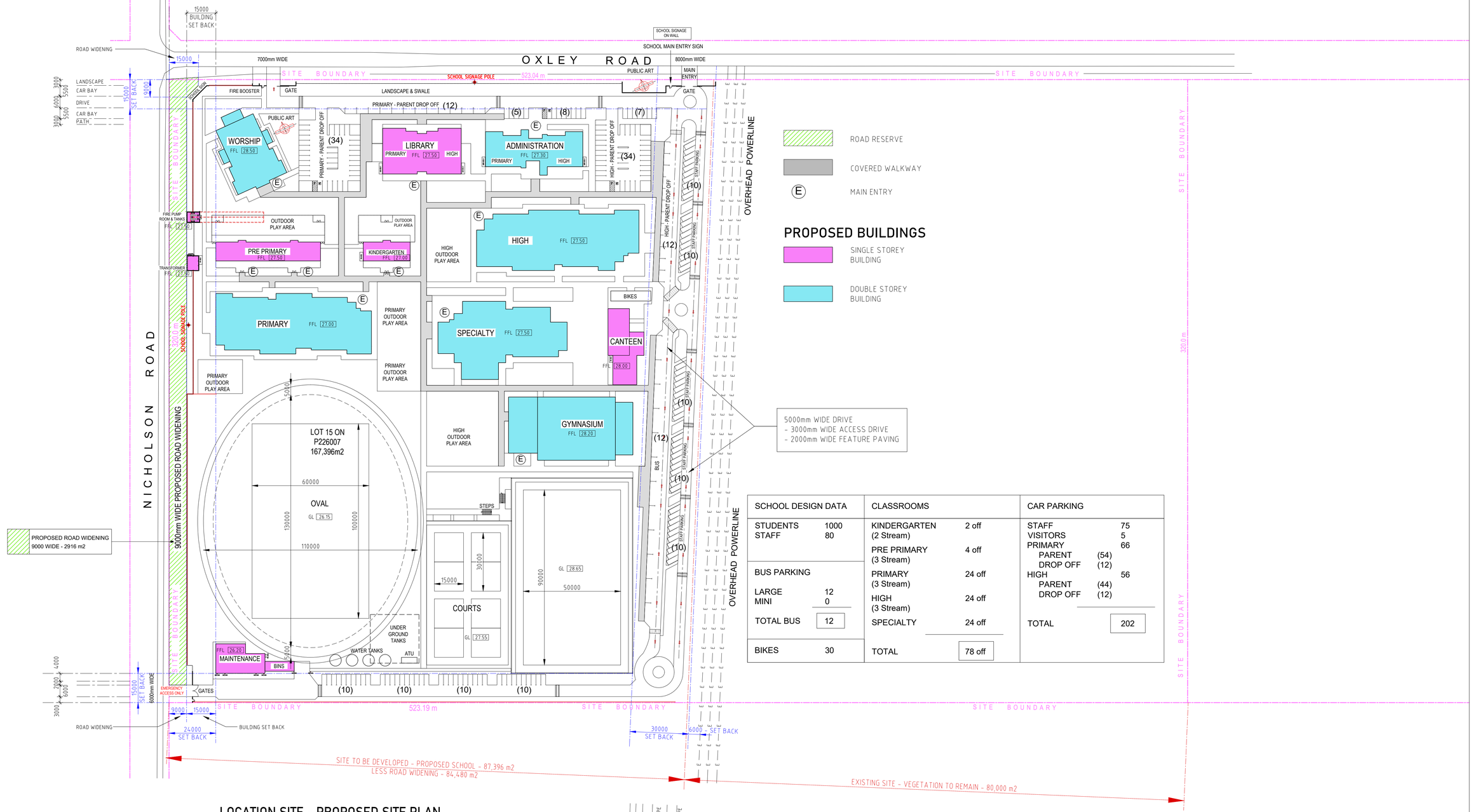
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20-371-DA01-2 SITE EX.DWG 01.10.2021 3:37 PM

DEVELOPMENT ASSESSMENT PANEL

APPROVED

10-Dec-2021



ROAD RESERVE

COVERED WALKWAY

(E) MAIN ENTRY

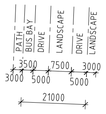
PROPOSED BUILDINGS

SINGLE STOREY BUILDING

DOUBLE STOREY BUILDING

SCHOOL DESIGN DATA		CLASSROOMS		CAR PARKING	
STUDENTS	1000	KINDERGARTEN (2 Stream)	2 off	STAFF	75
STAFF	80	PRE PRIMARY (3 Stream)	4 off	VISITORS	5
BUS PARKING		PRIMARY (3 Stream)	24 off	PRIMARY	66
LARGE	12	HIGH (3 Stream)	24 off	PARENT	(54)
MINI	0	SPECIALTY	24 off	DROP OFF	(12)
TOTAL BUS	12	TOTAL	78 off	HIGH	56
BIKES	30			PARENT	(44)
				DROP OFF	(12)
				TOTAL	202

LOCATION SITE - PROPOSED SITE PLAN
(DESIGN DATA)
SCALE 1:1000 @A1



A I C

FORRESTDALE

PROPOSED MASTER PLAN

NORTH

MAROCCHI engineering group
Suite 3, 158 Newcastle Street, Perth W.A. 6000
Tel. (08) 9328 5700

PROJECT
AUSTRALIAN ISLAMIC COLLEGE
LOT 15 (651) NICHOLSON ROAD
FORRESTDALE

SHEET
LOCATION SITE PLAN
PROPOSED SITE PLAN (DESIGN DATA)

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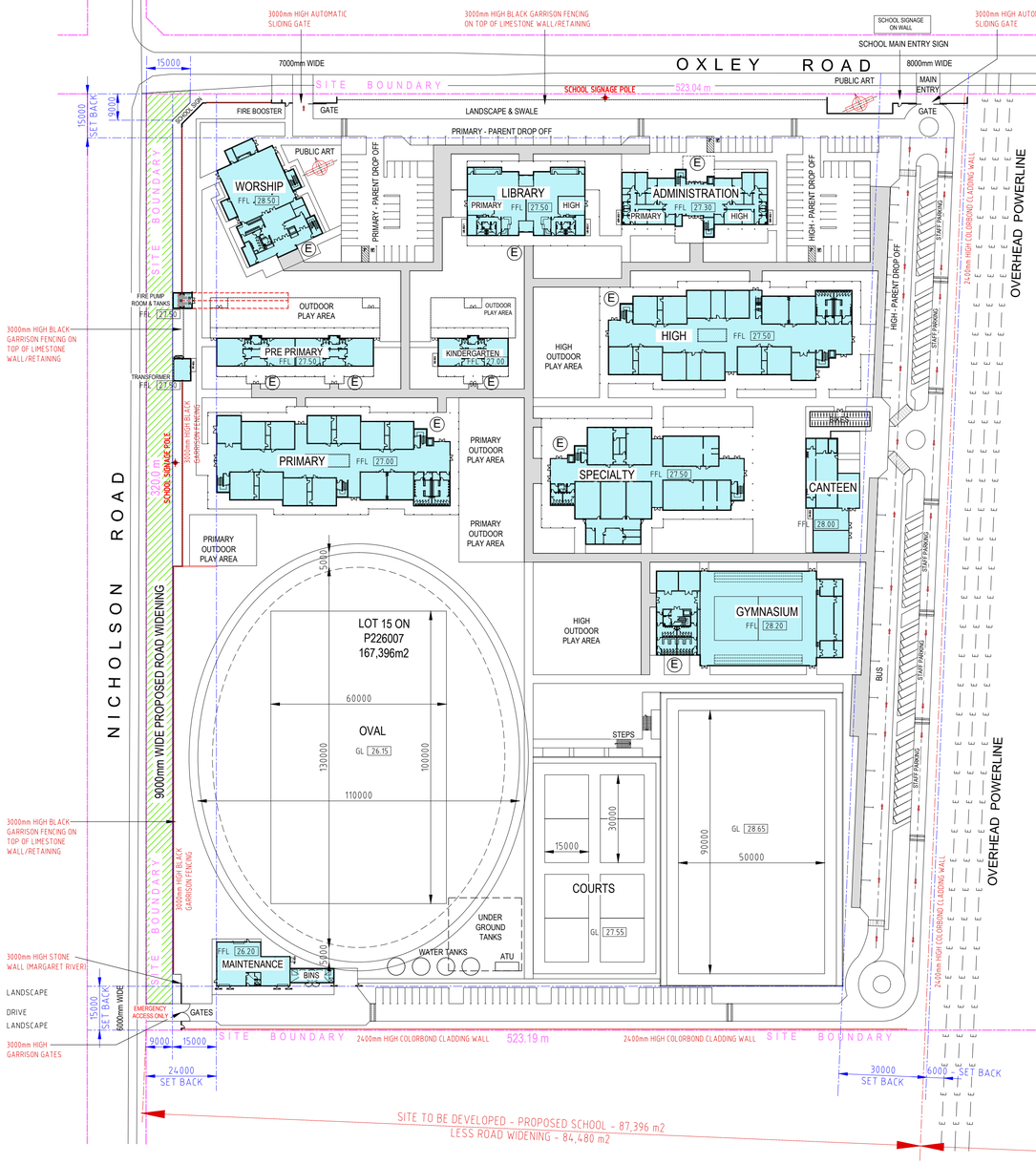
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A	28-06-2021	NS	COUNCIL DA ISSUE

20-371-DA01-3 SITE PROP (DESIGN DATA).DWG 03.11.2021 12:36 PM

DEVELOPMENT ASSESSMENT PANEL

APPROVED

10-Dec-2021



BUILDING CONSTRUCTION OCCUPANCY STAGING

STAGE 1 - 2023 SCHOOL YEAR
CONSTRUCTION 2022

- PRE-PRIMARY
- PRIMARY CLASSROOM
- MAINTENANCE
- TRANSFORMER
- FIRE PUMP ROOM AND TANKS

STAGE 2 - 2025 SCHOOL YEAR
CONSTRUCTION 2024

- KINDERGARTEN
- ADMINISTRATION
- LIBRARY

STAGE 3 - T.B.C

SITE DESIGN DATA

SITE AREA	167,396 m2
LESS ROAD WIDENING	164,480 m2
SITE TO BE DEVELOPED - PROPOSED SCHOOL	
PROPOSED SCHOOL	87,396 m2 (52.5%)
LESS ROAD WIDENING	84,480 m2 (51.3%)
EXISTING SITE VEGETATION TO REMAIN	80,000 m2 (478%)

ROAD RESERVE

COVERED WALKWAY

(E) MAIN ENTRY

LOCATION SITE - PROPOSED SITE PLAN
SCALE 1:1000 @A1

A I C

FORRESTDALE

PROPOSED MASTER PLAN

NORTH

MAROCCHI engineering group
Suite 3, 158 Newcastle Street, Perth W.A. 6000
Tel. (08) 9328 5700

PROJECT
AUSTRALIAN ISLAMIC COLLEGE
LOT 15 (651) NICHOLSON ROAD
FORRESTDALE

SHEET
LOCATION SITE PLAN
PROPOSED SITE PLAN

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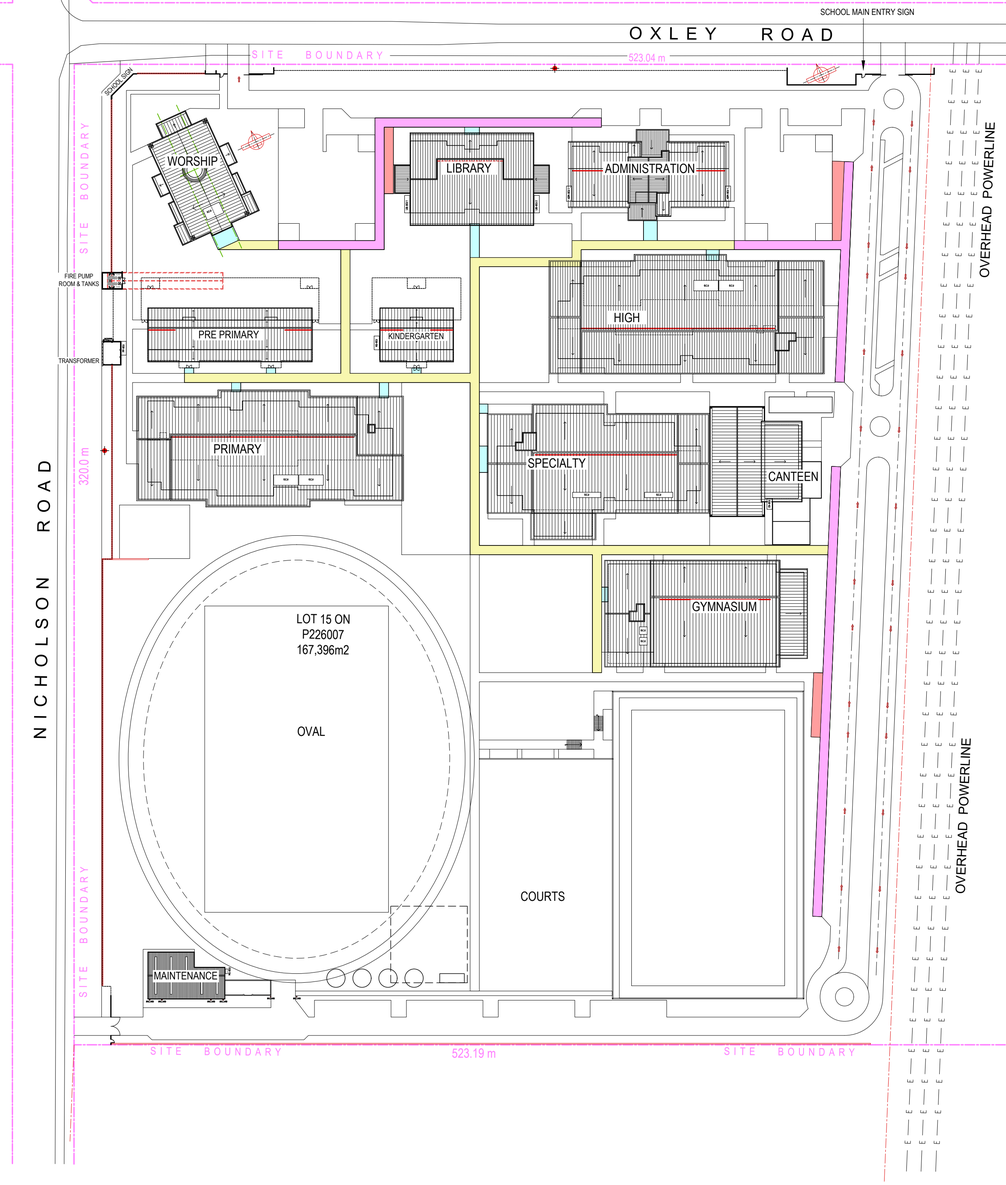
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A	28-06-2021	NS	COUNCIL DA ISSUE

20-371-DA01-4 SITE PROP.DWG 03.11.2021 12:36 PM

DEVELOPMENT ASSESSMENT PANEL

APPROVED

10-Dec-2021



BUILDING COVERAGE
GROUND LEVEL BUILDING (INCLUDED BUILDING VERANDAH)

• PRE-PRIMARY	954 m2
• PRIMARY CLASSROOM	3,108 m2
• MAINTENANCE SHED	340 m2
• FIRE PUMP ROOM AND TANKS	37 m2
• KINDERGARTEN	427 m2
• ADMINISTRATION	1,232 m2
• LIBRARY	1,312 m2
• HIGH SCHOOL CLASSROOM	3,390 m2
• SPECIAL CLASSROOM	2,628 m2
• CANTEEN	970 m2
• GYMNASIUM	2,264 m2
TOTAL	16,662 m2

COVERED WALKWAY - TYPICAL SECTIONS
- REFER TO DRAWING DA13-2

- COVERED WALKWAY - TYPE A
- COVERED WALKWAY - TYPE B
- COVERED WALKWAY - TYPE C (LINKED TO BUILDING)
- COVERED WALKWAY - TYPE D

LOCATION SITE - PROPOSED SITE ROOF PLAN
SCALE 1:1000 @A1

A I C

FORRESTDALE

PROPOSED MASTER PLAN

NORTH

MAROCCHI engineering group
Suite 3, 158 Newcastle Street, Perth W.A. 6000
Tel. (08) 9328 5700

PROJECT
AUSTRALIAN ISLAMIC COLLEGE
LOT 15 (651) NICHOLSON ROAD
FORRESTDALE

SHEET
LOCATION SITE PLAN
PROPOSED SITE ROOF PLAN

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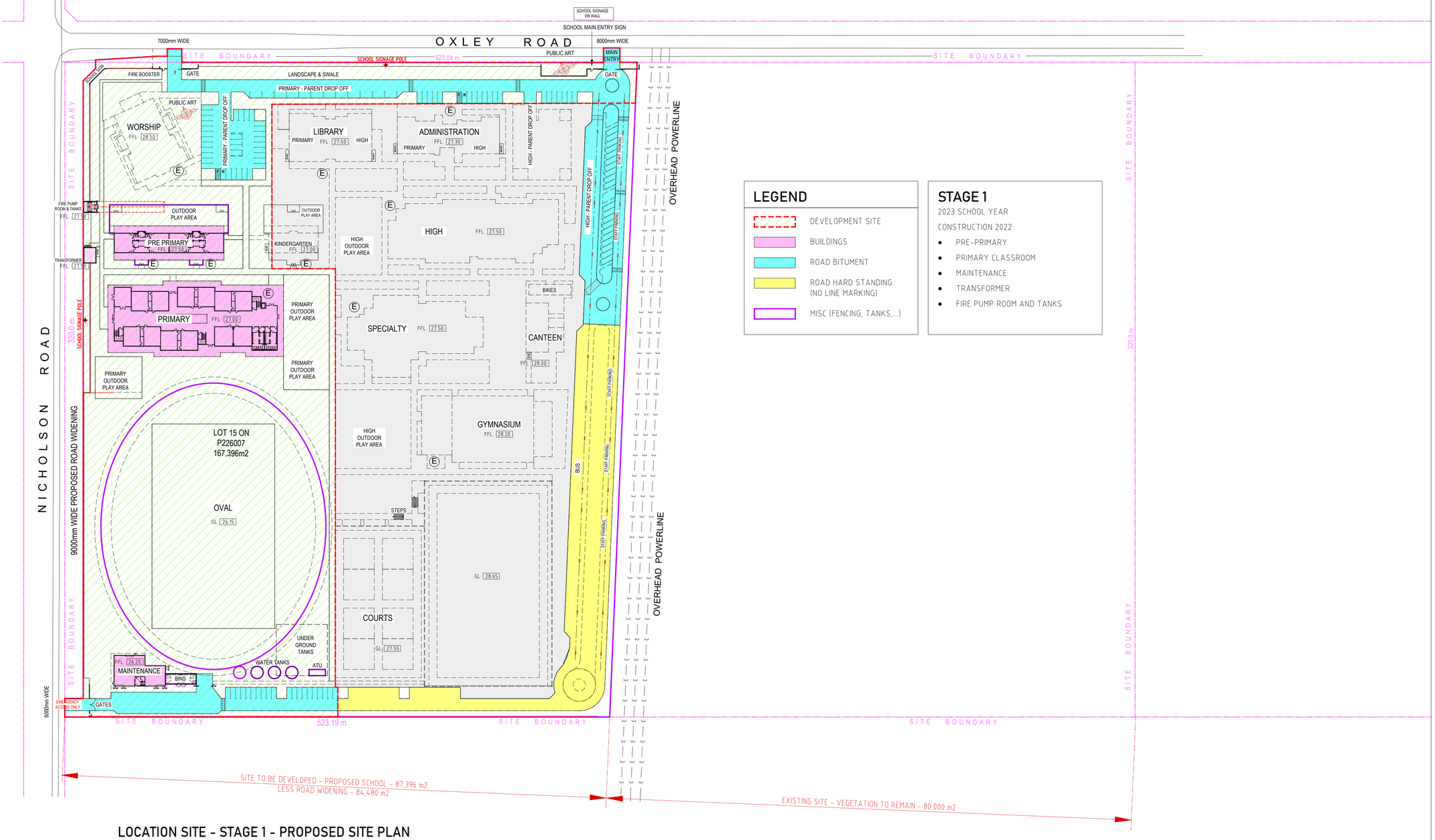
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A	28-06-2021	NS	COUNCIL DA ISSUE

20-371-DA01-5 SITE PROP ROOF.DWG 03.11.2021 12:37 PM

DEVELOPMENT ASSESSMENT PANEL

APPROVED

10-Dec-2021



LEGEND

- DEVELOPMENT SITE
- BUILDINGS
- ROAD BITUMENT
- ROAD HARD STANDING (NO LINE MARKING)
- MISC (FENCING, TANKS,...)

STAGE 1

2023 SCHOOL YEAR

CONSTRUCTION 2022

- PRE-PRIMARY
- PRIMARY CLASSROOM
- MAINTENANCE
- TRANSFORMER
- FIRE PUMP ROOM AND TANKS

LOCATION SITE - STAGE 1 - PROPOSED SITE PLAN

SCALE 1:1000 @A1

A I C

FORRESTDALE

PROPOSED MASTER PLAN

NORTH

MAROCCHI engineering group

Suite 3, 158 Newcastle Street, Perth W.A. 6000

Tel. (08) 9328 5700

PROJECT

AUSTRALIAN ISLAMIC COLLEGE

LOT 15 (651) NICHOLSON ROAD

FORRESTDALE

SHEET

LOCATION SITE PLAN

PROPOSED SITE PLAN STAGE 1

DRAWN	PH	SCALE	1:1000 @ A1 1:2000 @ A3
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CHECKED	NC	REV	D

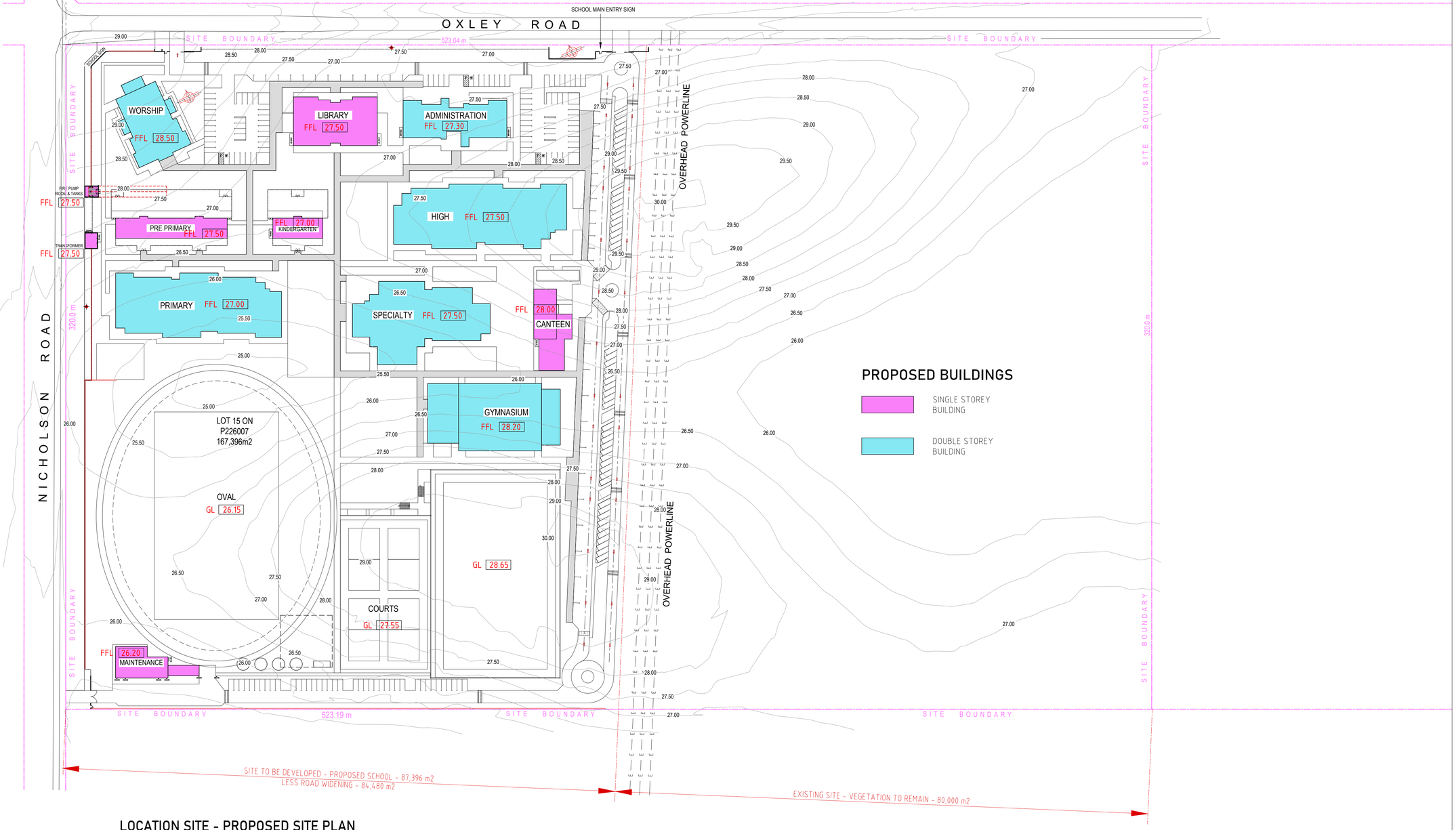
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A	28-06-2021	NS	COUNCIL DA ISSUE

20-371-DA01-6 SITE PROP STAGE 1.DWG 03.11.2021 12:37 PM

DEVELOPMENT ASSESSMENT PANEL

APPROVED

10-Dec-2021



LOCATION SITE - PROPOSED SITE PLAN
(WITH EXISTING CONTOUR LINES SHOWN)

SCALE 1:1000 @A1

A I C FORRESTDALE

PROPOSED MASTER PLAN

NORTH

MAROCCHI engineering group
Suite 3, 158 Newcastle Street, Perth W.A. 6000
Tel. (08) 9328 5700

PROJECT
AUSTRALIAN ISLAMIC COLLEGE
LOT 15 (651) NICHOLSON ROAD
FORRESTDALE

SHEET
LOCATION SITE PLAN
PROPOSED SITE PLAN WITH CONTOURS SHOWN

DRAWN	PH	SCALE	1:1000 @ A1	1:2000 @ A3
DESIGNED	NC	DRG No	20-371-DA01-7	REV D
CHECKED	NC			

REV	DATE	CHKD	DESCRIPTION
D	03-11-2021	NS	COUNCIL DA ISSUE
C	28-10-2021	NS	COUNCIL DA ISSUE

20-371-DA01-7 SITE PROP (WITH CONTOURS SHOWN).DWG 03.11.2021 12:38 PM

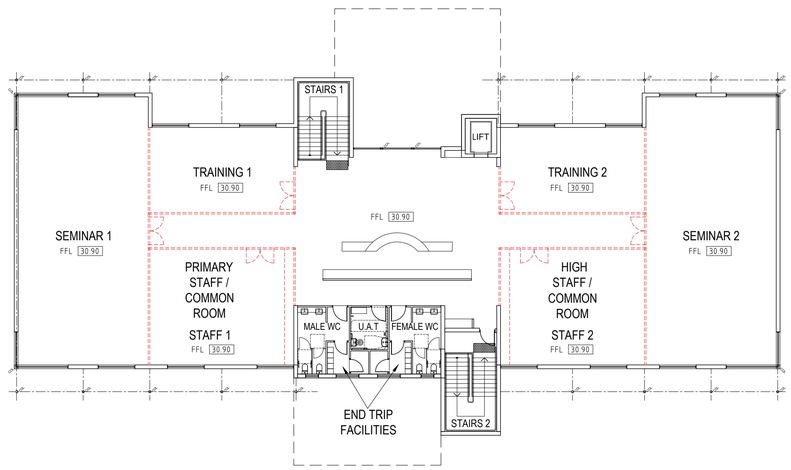
DEVELOPMENT ASSESSMENT PANEL

APPROVED

10-Dec-2021



ADMINISTRATION BUILDING
FLOOR PLAN - L00
SCALE 1:200 @A1



ADMINISTRATION BUILDING
FLOOR PLAN - L01
SCALE 1:200 @A1

ADMINISTRATION BUILDING

PROPOSED FLOOR AREA

GROUND FLOOR BUILDING :	835 m^2
FIRST FLOOR BUILDING :	860 m^2
	1695 m^2

A I C

FORRESTDALE

PROPOSED BUILDING WORKS

NORTH

MAROCCHI engineering group
Suite 3, 158 Newcastle Street, Perth W.A. 6000
Tel. (08) 9328 5700

PROJECT
AUSTRALIAN ISLAMIC COLLEGE
LOT 15 (651) NICHOLSON ROAD
FORRESTDALE

SHEET
ADMINISTRATION BUILDING
FLOOR PLAN

DRAWN	PH	SCALE	1:100 @ A1 1:200 @ A3
DESIGNED	NC	DRG No	20-371-DA02-1
CHECKED	NC	REV	B

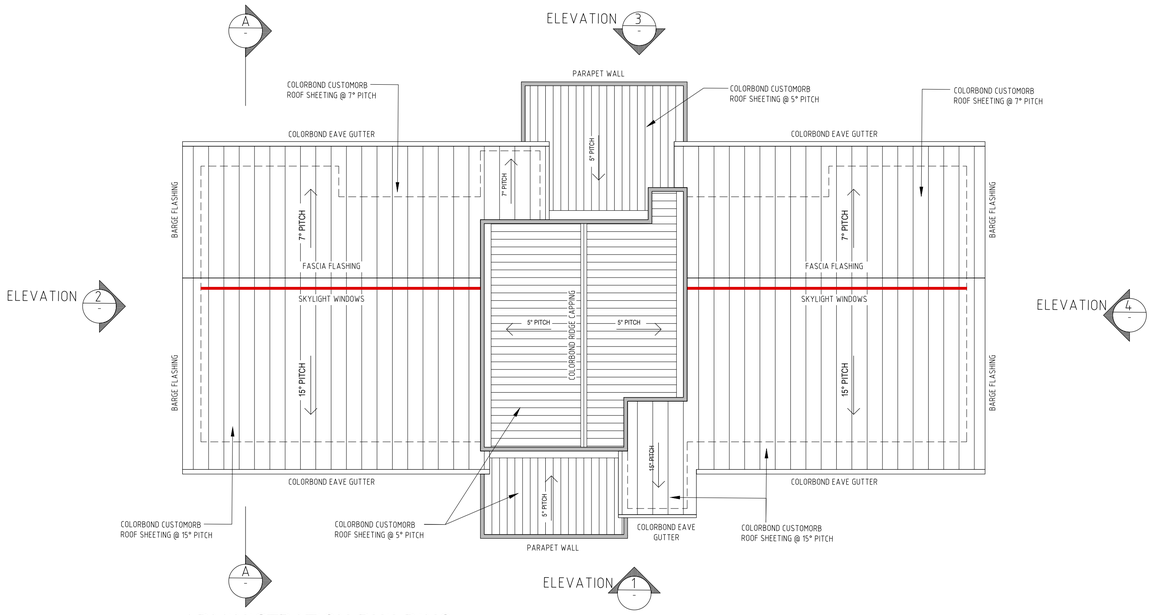
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A	28-06-2021	NS	COUNCIL DA ISSUE

20-371-DA02-1 ADMIN PLAN.DWG 21.10.2021 3:22 PM

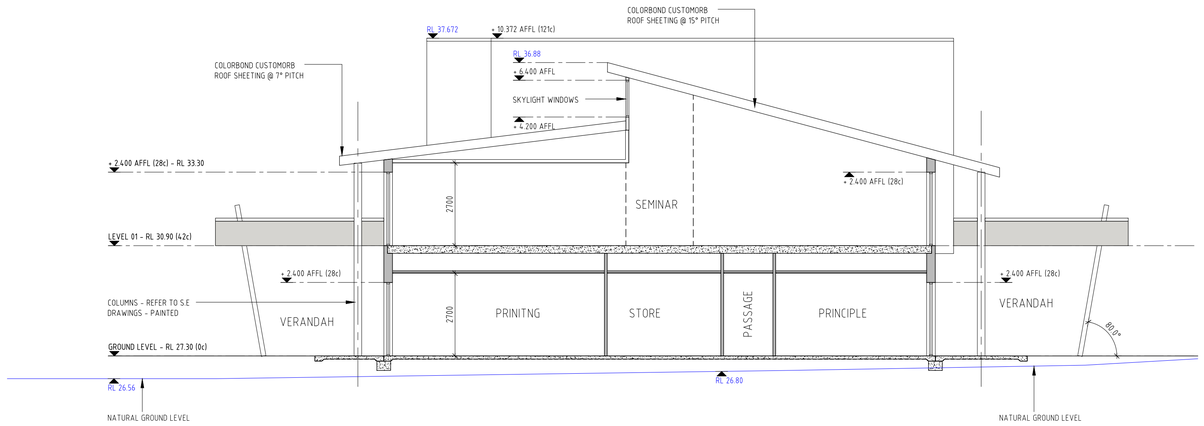
DEVELOPMENT ASSESSMENT PANEL

APPROVED

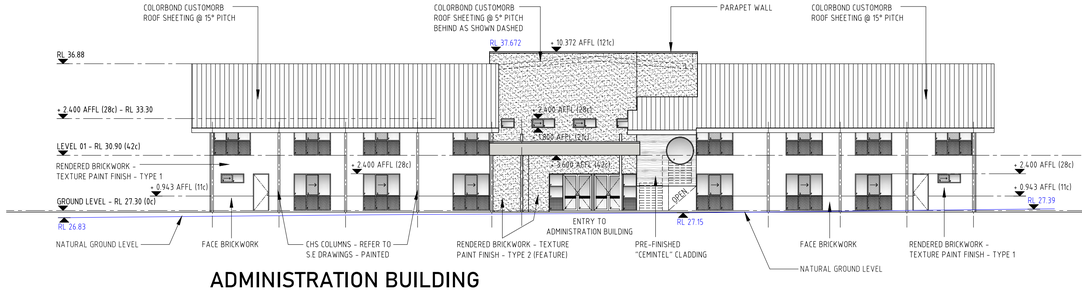
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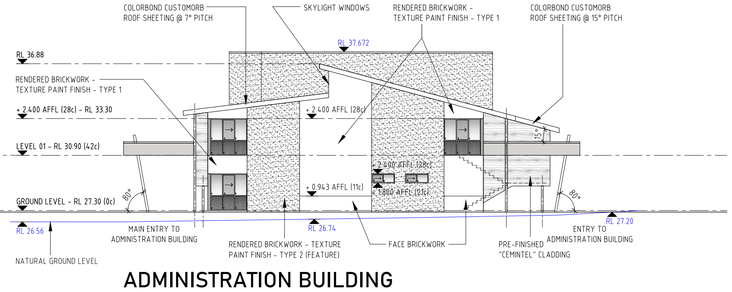
ADMINISTRATION BUILDING
ROOF PLAN
SCALE 1:200 @A1



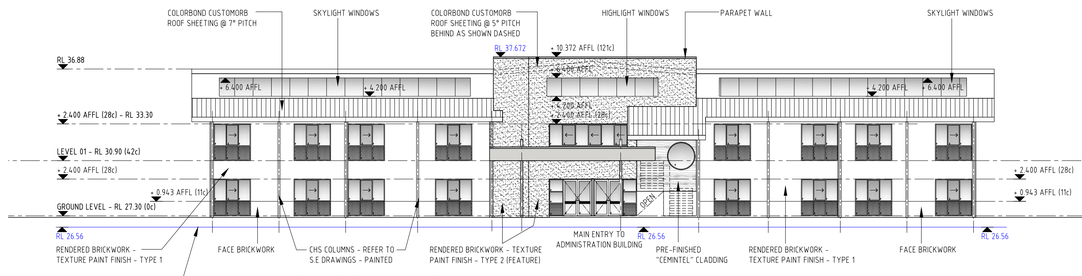
ADMINISTRATION BUILDING
SECTION AA
SCALE 1:100 @A1



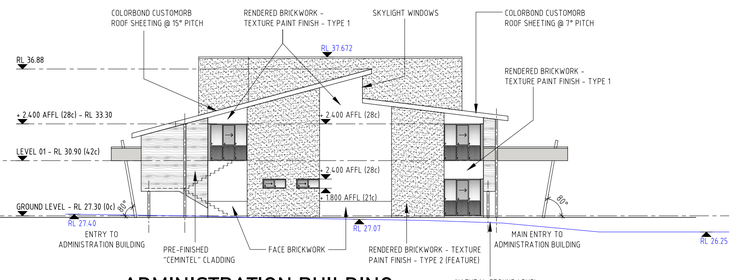
ADMINISTRATION BUILDING
ELEVATION 1
SCALE 1:200 @A1



ADMINISTRATION BUILDING
ELEVATION 2
SCALE 1:200 @A1



ADMINISTRATION BUILDING
ELEVATION 3
SCALE 1:200 @A1



ADMINISTRATION BUILDING
ELEVATION 4
SCALE 1:200 @A1

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FORRESTDALE

PROPOSED BUILDING WORKS

NORTH

MAROCCHI
engineering group
Suite 3, 158 Newcastle Street, Perth W.A. 6000
Tel. (08) 9328 5700

PROJECT
AUSTRALIAN ISLAMIC COLLEGE
LOT 15 (651) NICHOLSON ROAD
FORRESTDALE

SHEET
ADMINISTRATION BUILDING
ROOF PLAN & SECTION A-A, ELEVATIONS

DRAWN	PH	SCALE	1:100, 1:200 @ A1 1:200, 1:400 @ A3
DESIGNED	NC	DRG No	20-371-DA02-2
CHECKED	NC	REV	B

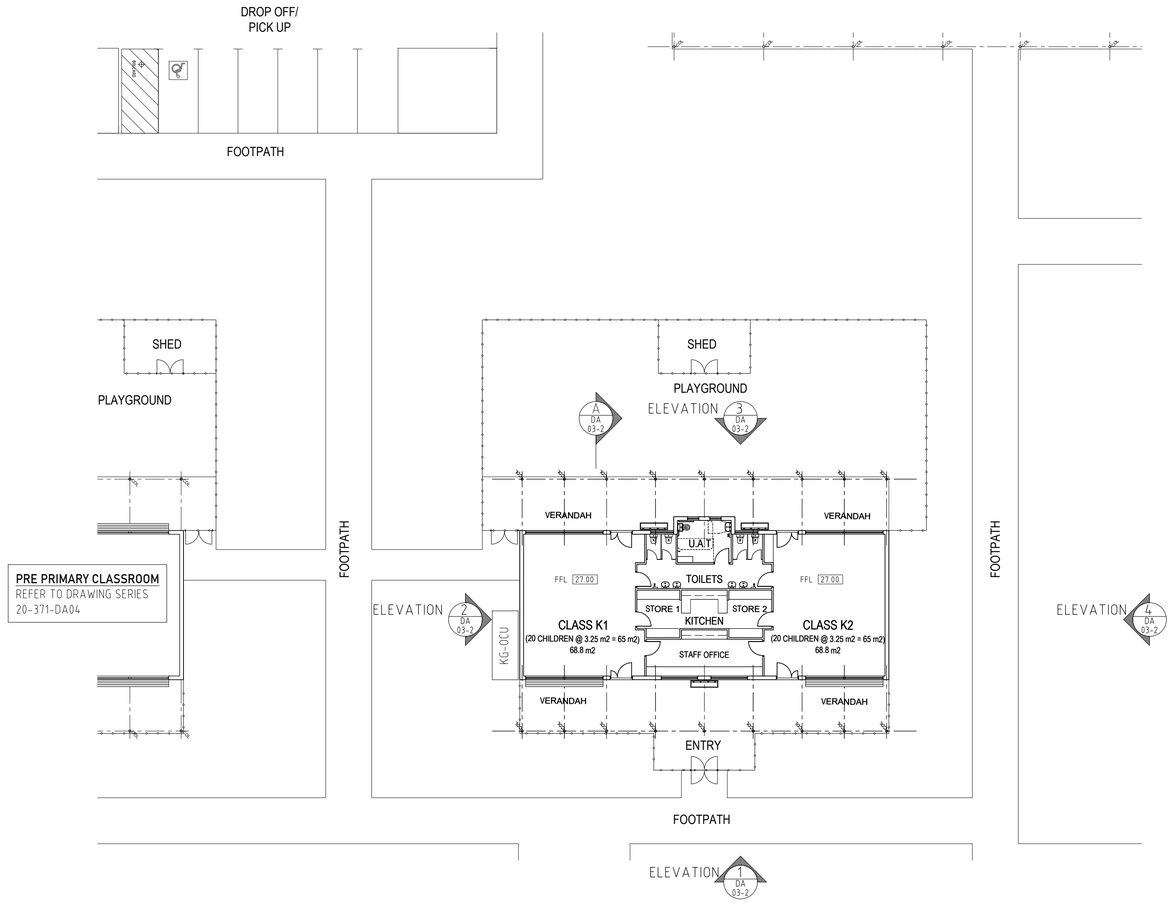
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A	28-06-2021	NS	COUNCIL DA ISSUE

20-371-DA02-2 ADMIN ROOF, SEC & ELEVS.DWG 21.10.2021 3:23 PM

DEVELOPMENT
ASSESSMENT PANEL

APPROVED

10-Dec-2021



KINDERGARTEN CLASSROOMS

PROPOSED FLOOR AREA

GROUND FLOOR BUILDING :	238 m^2
VERANDAH :	165 m^2
	403 m^2

KINDERGARTEN CLASSROOMS
FLOOR PLAN
SCALE 1:200 @A1

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FORRESTDALE

PROPOSED BUILDING WORKS

NORTH

MAROCCHI
engineering group
Suite 3, 158 Newcastle Street, Perth W.A. 6000
Tel. (08) 9328 5700

PROJECT
AUSTRALIAN ISLAMIC COLLEGE
LOT 15 (651) NICHOLSON ROAD
FORRESTDALE

SHEET
KINDERGARTEN CLASSROOM
FLOOR PLAN

DRAWN	PH	SCALE	1:200 @ A1	1:400 @ A3	
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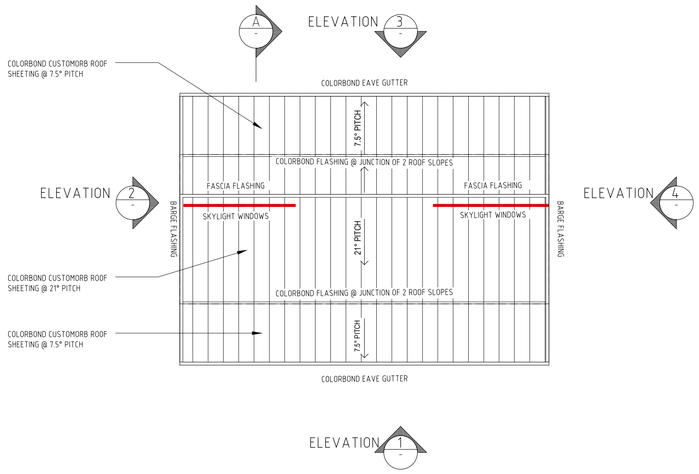
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A	28-06-2021	NS	COUNCIL DA ISSUE

20-371-DA03-1 KINDERGARTEN PLAN.DWG 21.10.2021 3:23 PM

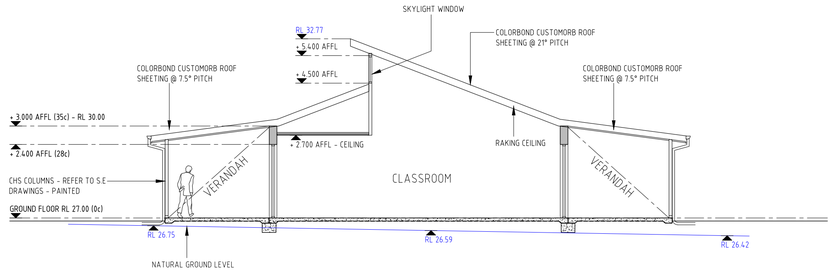
DEVELOPMENT ASSESSMENT PANEL

APPROVED

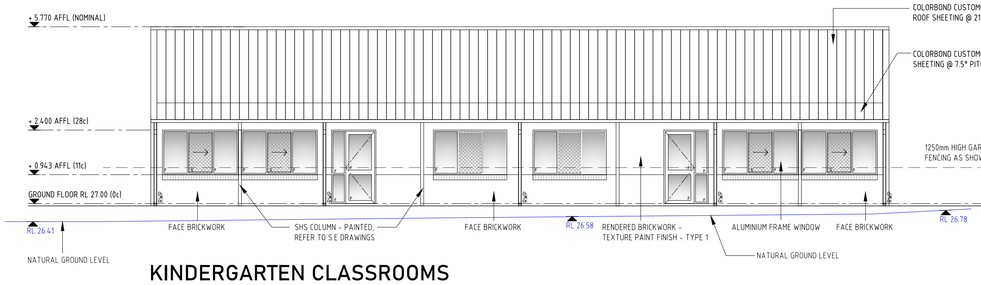
10-Dec-2021



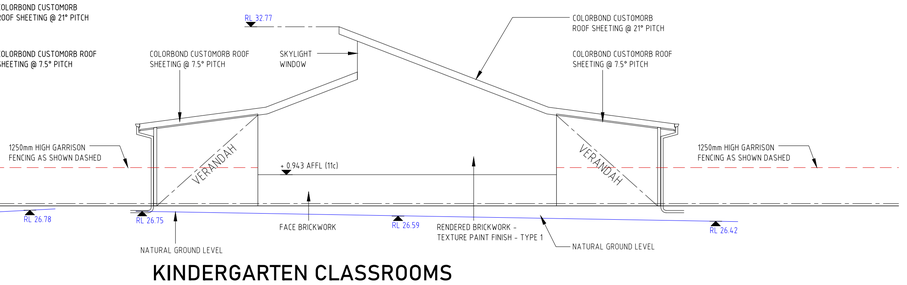
KINDERGARTEN CLASSROOMS
FLOOR PLAN
SCALE 1:200 @A1



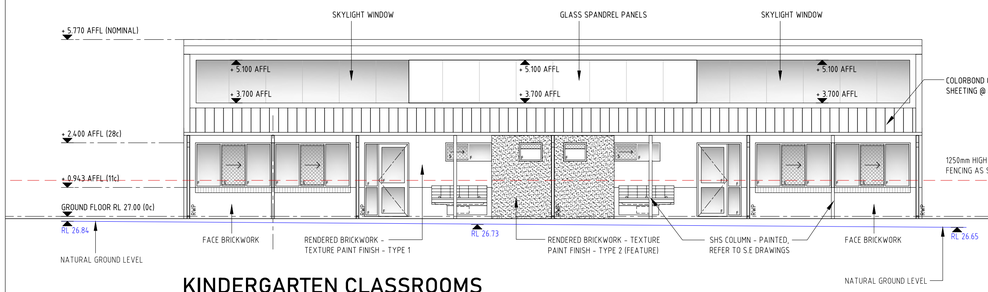
KINDERGARTEN CLASSROOMS
SECTION A-A
SCALE 1:100 @A1



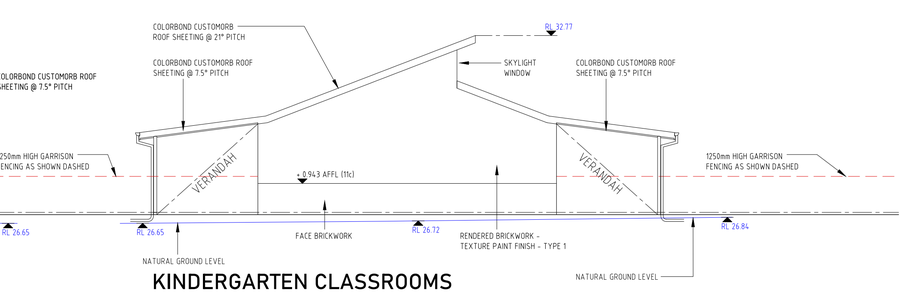
KINDERGARTEN CLASSROOMS
ELEVATION 1
SCALE 1:100 @A1



KINDERGARTEN CLASSROOMS
ELEVATION 2
SCALE 1:100 @A1



KINDERGARTEN CLASSROOMS
ELEVATION 3
SCALE 1:100 @A1



KINDERGARTEN CLASSROOMS
ELEVATION 4
SCALE 1:100 @A1

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FORRESTDALE

PROPOSED BUILDING WORKS



MAROCCHI engineering group
Suite 3, 158 Newcastle Street, Perth W.A. 6000
Tel. (08) 9328 5700

PROJECT

AUSTRALIAN ISLAMIC COLLEGE
LOT 15 (651) NICHOLSON ROAD
FORRESTDALE

SHEET
KINDERGARTEN CLASSROOM
ROOF PLAN, SECTION AND ELEVATIONS

DRAWN	PH	SCALE 1:100, 1:200 @ A1 1:200, 1:400 @ A3	
DESIGNED	NC	DRG No 20-371-DA03-2	REV B
CHECKED	NC		

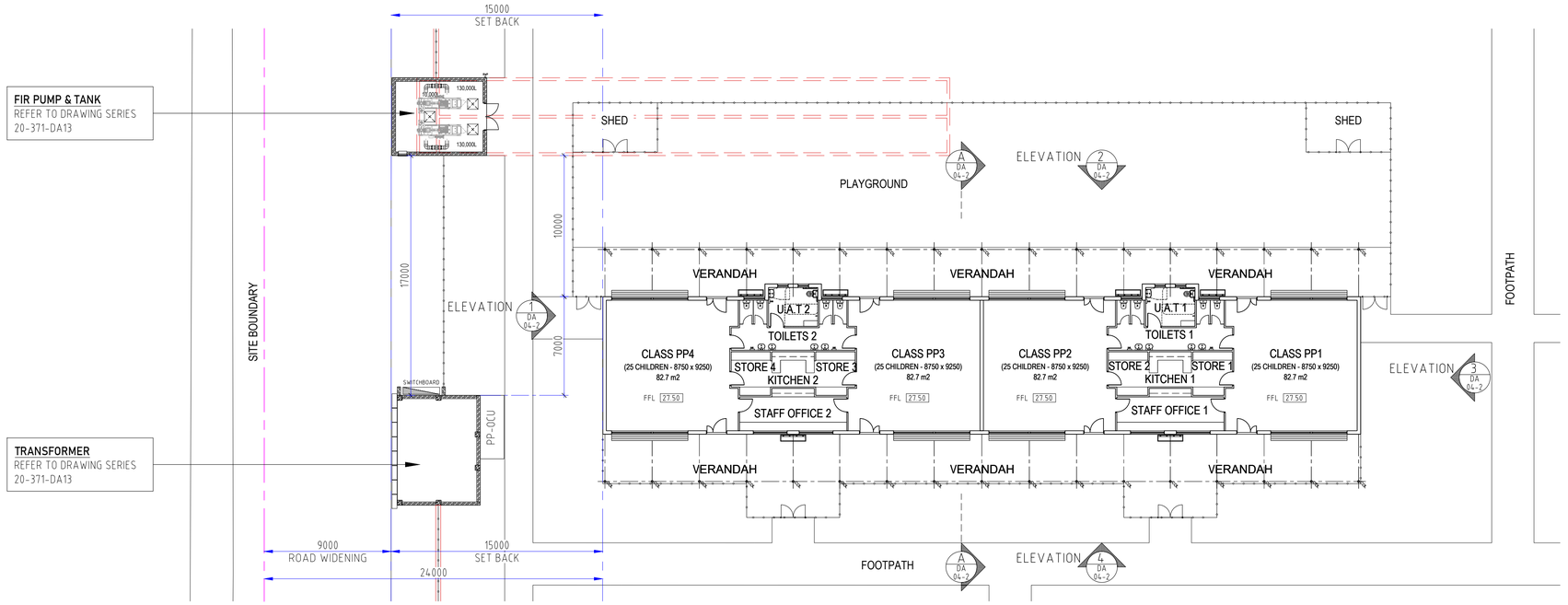
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A	28-06-2021	NS	COUNCIL DA ISSUE

20-371-DA03-2 KINDERGARTEN ROOF, SEC & ELEVS.DWG 21.10.2021 3:24 PM

DEVELOPMENT ASSESSMENT PANEL

APPROVED

10-Dec-2021



PRE-PRIMARY CLASSROOMS

PROPOSED FLOOR AREA

GROUND FLOOR BUILDING :	531 m²
VERANDAH :	369 m²
	900 m²

PRE-PRIMARY CLASSROOM
FLOOR PLAN
SCALE 1:200 @A1

A I C

FORRESTDALE

PROPOSED BUILDING WORKS

NORTH

MAROCCHI engineering group
Suite 3, 158 Newcastle Street, Perth W.A. 6000
Tel. (08) 9328 5700

PROJECT
AUSTRALIAN ISLAMIC COLLEGE
LOT 15 (651) NICHOLSON ROAD
FORRESTDALE

SHEET
PRE-PRIMARY CLASSROOM
FLOOR PLAN

DRAWN	PH	SCALE	1:100 @ A1	1:200 @ A3	
DESIGNED	NC	DRG No	20-371-DA04-1	REV	B
CHECKED	NC				

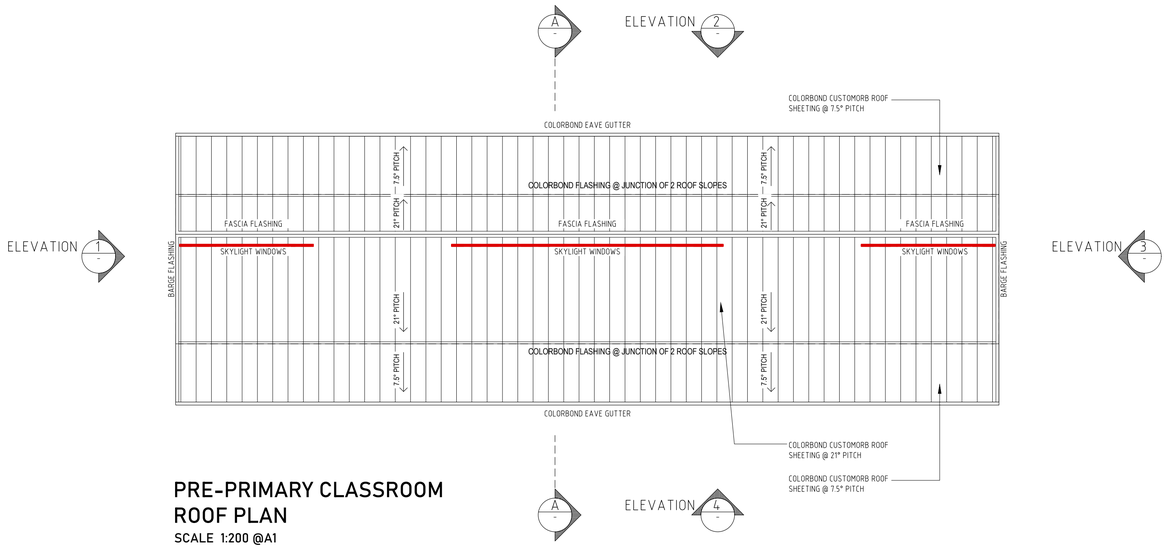
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20-371-DA04-1 PRE PRIMARY PLAN.DWG 21.10.2021 3:25 PM

DEVELOPMENT ASSESSMENT PANEL

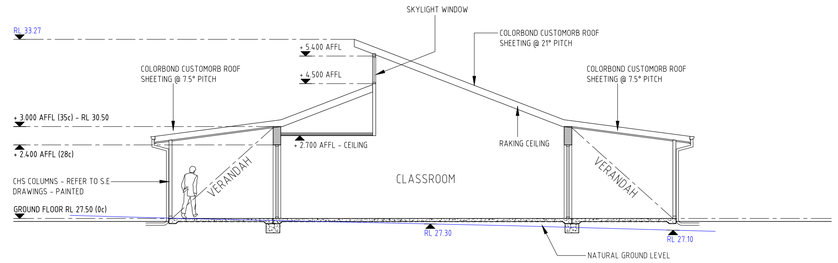
APPROVED

10-Dec-2021



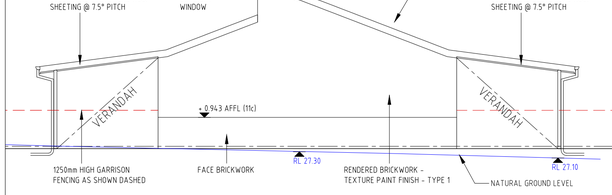
PRE-PRIMARY CLASSROOM ROOF PLAN

SCALE 1:200 @A1



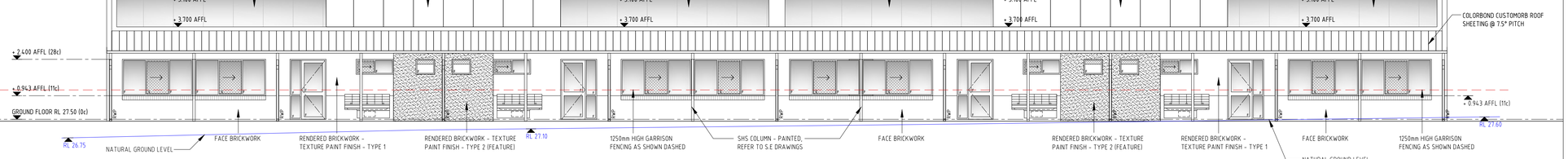
PRE-PRIMARY CLASSROOM SECTION A-A

SCALE 1:100 @A1



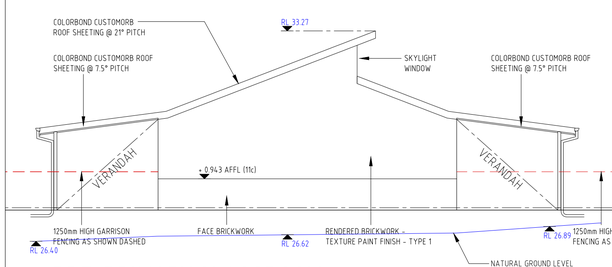
PRE-PRIMARY CLASSROOM ELEVATION 1

SCALE 1:100 @A1



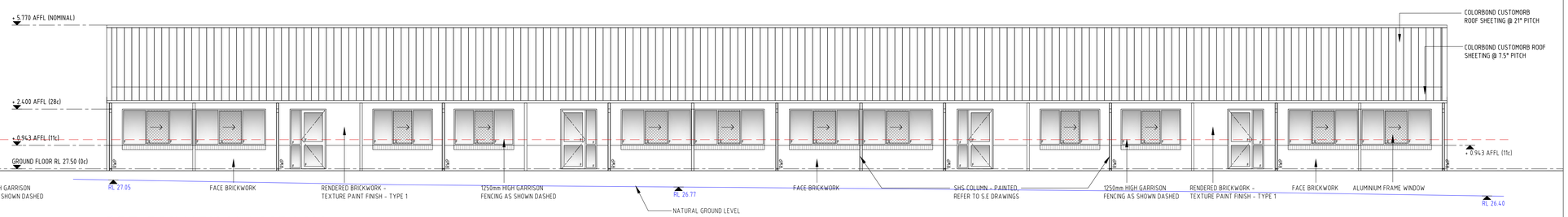
PRE-PRIMARY CLASSROOM ELEVATION 2

SCALE 1:100 @A1



PRE-PRIMARY CLASSROOM ELEVATION 3

SCALE 1:100 @A1



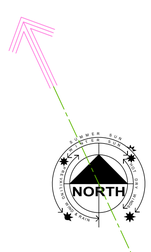
PRE-PRIMARY CLASSROOM ELEVATION 4

SCALE 1:100 @A1

A I C

FORRESTDALE

PROPOSED BUILDING WORKS



MAROCCHI engineering group
Suite 3, 158 Newcastle Street, Perth W.A. 6000
Tel. (08) 9328 5700

PROJECT

AUSTRALIAN ISLAMIC COLLEGE
LOT 15 (651) NICHOLSON ROAD
FORRESTDALE

SHEET

PRE-PRIMARY CLASSROOM
ROOF PLAN, SECTION AND ELEVATIONS

DRAWN	PH	SCALE	1:100, 1:200 @ A1 1:200, 1:400 @ A3
DESIGNED	NC	DRG No	20-371-DA04-2
CHECKED	NC	REV	B

REV	DATE	CHKD	DESCRIPTION
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A	28-06-2021	NS	COUNCIL DA ISSUE

20-371-DA04-2 PRE PRIMARY ROOF, SEC & ELEVS.DWG 21.10.2021 3:25 PM

DEVELOPMENT ASSESSMENT PANEL

APPROVED

10-Dec-2021

9000 PROPOSED ROAD WIDENING

15000 SET BACK

SITE BOUNDARY

SWITCHBOARD

PP-OCU

TRANSFORMER
REFER TO DRAWING SERIES
20-371-DA13

VERANDAH

U.A.T 2

TOILETS 2

CLASS PP4 (25 CHILDREN - 8750 x 9250) 82.7 m2

STORE 4

STORE 3

KITCHEN 2

STAFF OFFICE 2

CLASS PP3 (25 CHILDREN - 8750 x 9250) 82.7 m2

U.A.T 1

TOILETS 1

CLASS PP2 (25 CHILDREN - 8750 x 9250) 82.7 m2

STORE 2

STORE 1

KITCHEN 1

STAFF OFFICE 1

CLASS PP1 (25 CHILDREN - 8750 x 9250) 82.7 m2

PRE PRIMARY CLASSROOM
REFER TO DRAWING SERIES
20-371-DA04

KG-OCU

U.A.T

TOILETS

STORE 1

STORE 2

CLASS K1 (20 CHILDREN @ 3.25 m2 = 65 m2) 68.8 m2

KITCHEN

STAFF OFFICE

CLASS K2 (20 CHILDREN @ 3.25 m2 = 65 m2) 68.8 m2

KINDERGARTEN
REFER TO DRAWING SERIES
20-371-DA03

ELEVATION A DA 05-3

ELEVATION 2 DA 05-4

FOOTPATH

STORE 6

CLASS P6 YEAR 2 (25 CHILDREN - 8100 x 9250) 75 m2 FFL 27.00

STORE 8

STORE 7

CLASS P5 YEAR 2 (25 CHILDREN - 8100 x 9250) 75 m2

ENTRY

CLASS P4 YEAR 2 (25 CHILDREN - 8100 x 9250) 75 m2 FFL 27.00

STORE 10

STORE 9

CLASS P3 YEAR 1 (25 CHILDREN - 8100 x 9250) 75 m2

CLASS P2 YEAR 1 (25 CHILDREN - 8100 x 9250) 75 m2 FFL 27.00

STORE 12

STORE 11

CLASS P1 YEAR 1 (25 CHILDREN - 8100 x 9250) 75 m2

STAIR 1

CLEANER'S STORE 1

LIFT

ENTRY

OUTDOOR AREA

ENTRY

FFL 27.00

ENTRY

ELEVATION 3 DA 05-4

SCHOOL SIGNAGE POLE

ELEVATION 1 DA 05-4

CLEANER'S STORE 2

STAIR 2

CLASS P7 YEAR 3 (25 CHILDREN - 8100 x 9250) 75 m2 FFL 27.00

STORE 5

STORE 4

CLASS P8 YEAR 3 (25 CHILDREN - 8100 x 9250) 75 m2

CLASS P9 YEAR 3 (25 CHILDREN - 8100 x 9250) 75 m2

STORE 3

STORE 2

CLASS S1 (8100 x 9250) 75 m2 FFL 27.00

UP

DN

ENTRY

COVERED AREA

CLASS S2 (8950 x 9250) 83 m2

CLASS S3 (8950 x 9250) 83 m2 FFL 27.00

AIR LOCK 1

U.A.T

STORE 1

AIR LOCK 2

BOYS WC

GIRLS WC

OUTDOOR AREA

ELEVATION A DA 05-3

ELEVATION 4 DA 05-4

OUTDOOR AREA

RETAINING WALL

OVAL

9000 ROAD WIDENING

15000 SET BACK

24000

PRIMARY CLASSROOM GROUND FLOOR PLAN
SCALE 1:200 @A1

PRIMARY CLASSROOM

PROPOSED FLOOR AREA

GROUND FLOOR BUILDING :	2160 m²
FIRST FLOOR BUILDING :	2160 m²
	4320 m²

A I C FORRESTDALE

PROPOSED BUILDING WORKS

NORTH

MAROCCHI engineering group
Suite 3, 158 Newcastle Street, Perth W.A. 6000
Tel. (08) 9328 5700

PROJECT
AUSTRALIAN ISLAMIC COLLEGE
LOT 15 (651) NICHOLSON ROAD
FORRESTDALE

SHEET
PRIMARY CLASSROOM BUILDING
GROUND FLOOR PLAN

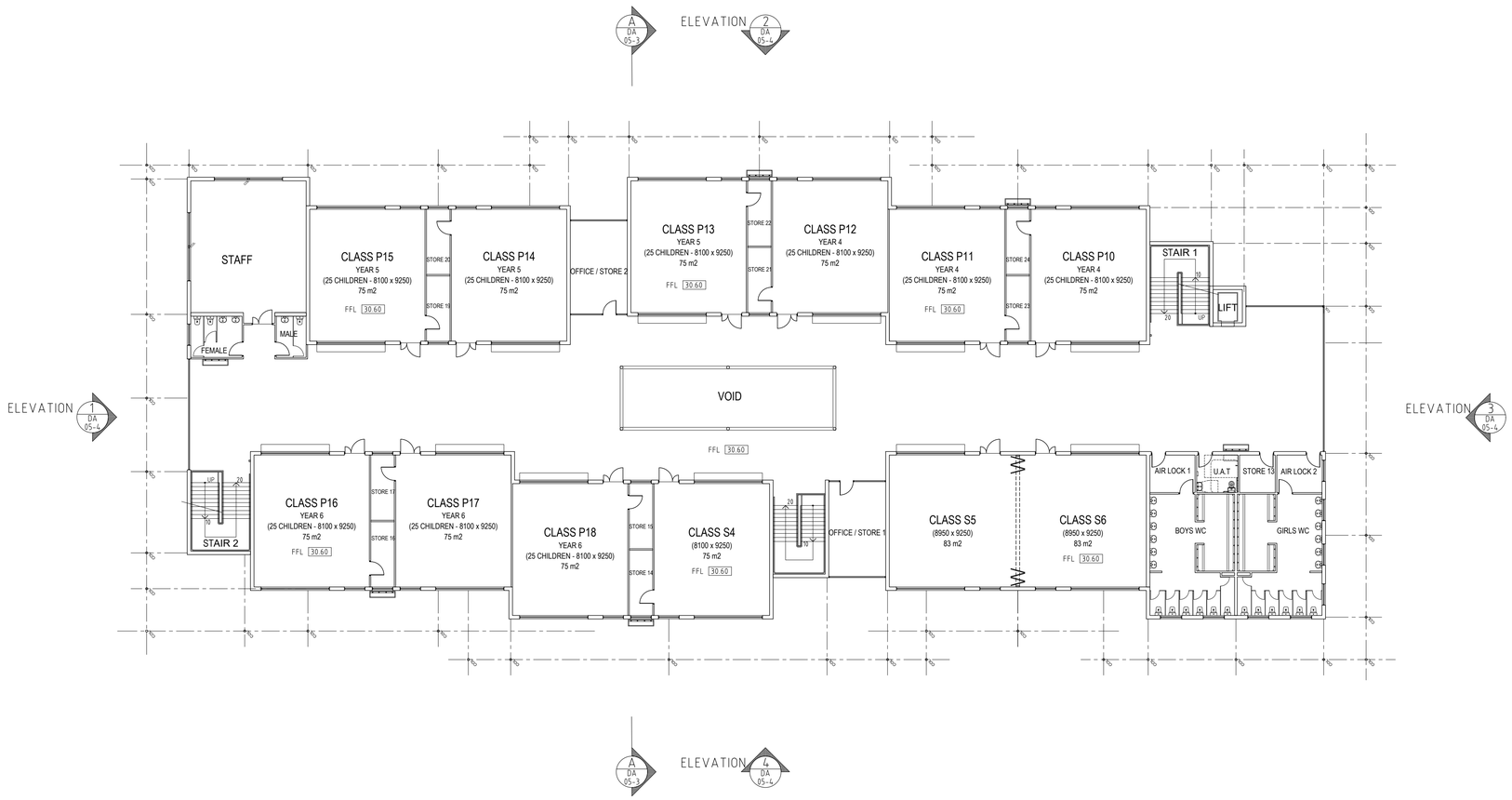
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CHECKED	NC	REV	B

REV	DATE	CHKD	DESCRIPTION
B	22-10-2021	NS	COUNCIL DA ISSUE
A	28-06-2021	NS	COUNCIL DA ISSUE

20-371-DA05-1 PRIMARY PLAN L00.DWG 21.10.2021 3:26 PM

DEVELOPMENT
ASSESSMENT PANEL

APPROVED
10-Dec-2021



PRIMARY CLASSROOM
FIRST FLOOR PLAN
SCALE 1:200 @A1

A I C

FORRESTDALE

PROPOSED BUILDING WORKS

NORTH

MAROCCHI
engineering group
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Tel. (08) 9328 5700

PROJECT
AUSTRALIAN ISLAMIC COLLEGE
LOT 15 (651) NICHOLSON ROAD
FORRESTDALE

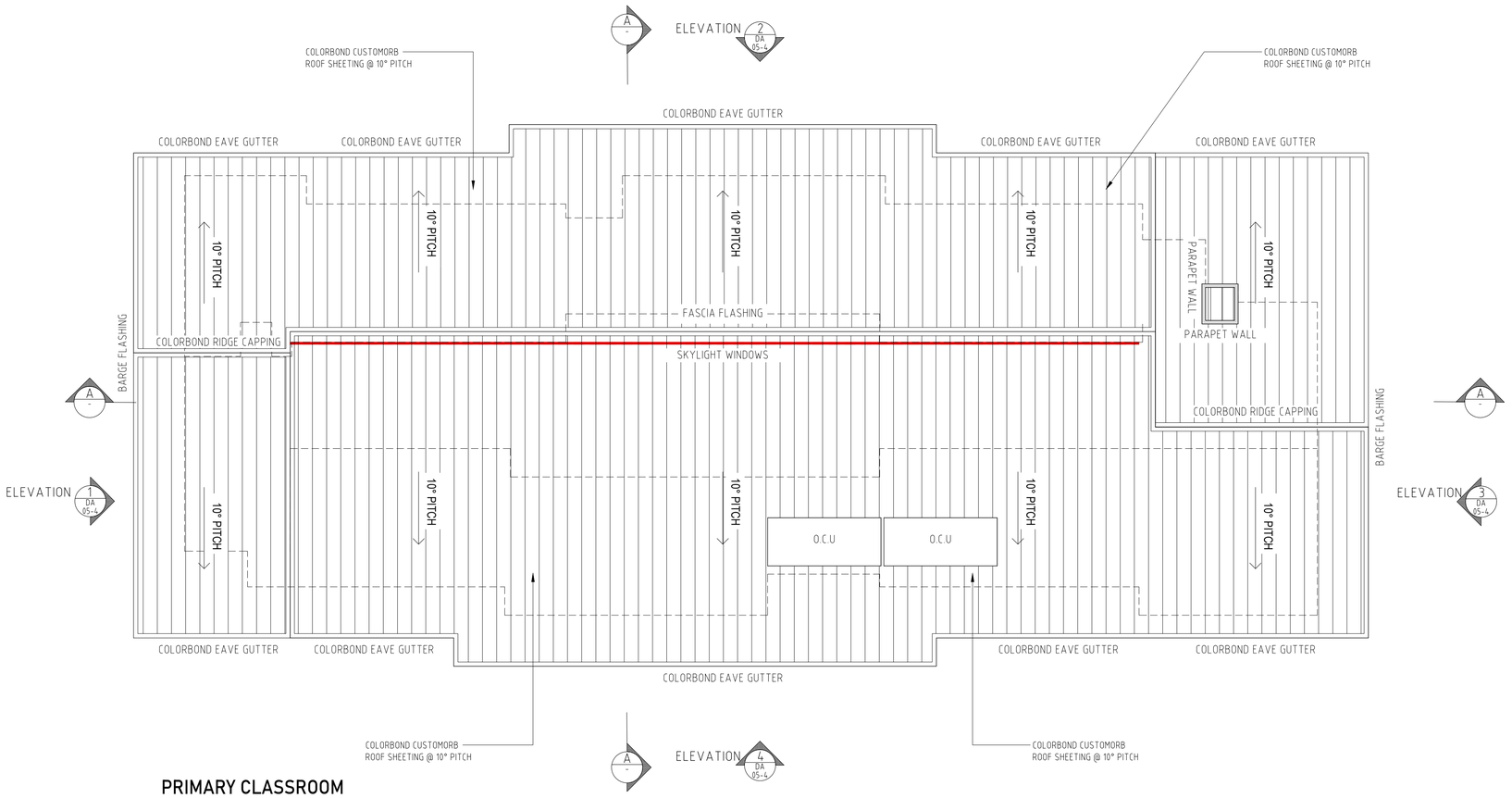
SHEET
PRIMARY CLASSROOM BUILDING
FIRST FLOOR PLAN

DRAWN	PH	SCALE	1:100 @ A1 1:200 @ A3
DESIGNED	NC	DRG No	20-371-DA05-2
CHECKED	NC	REV	B

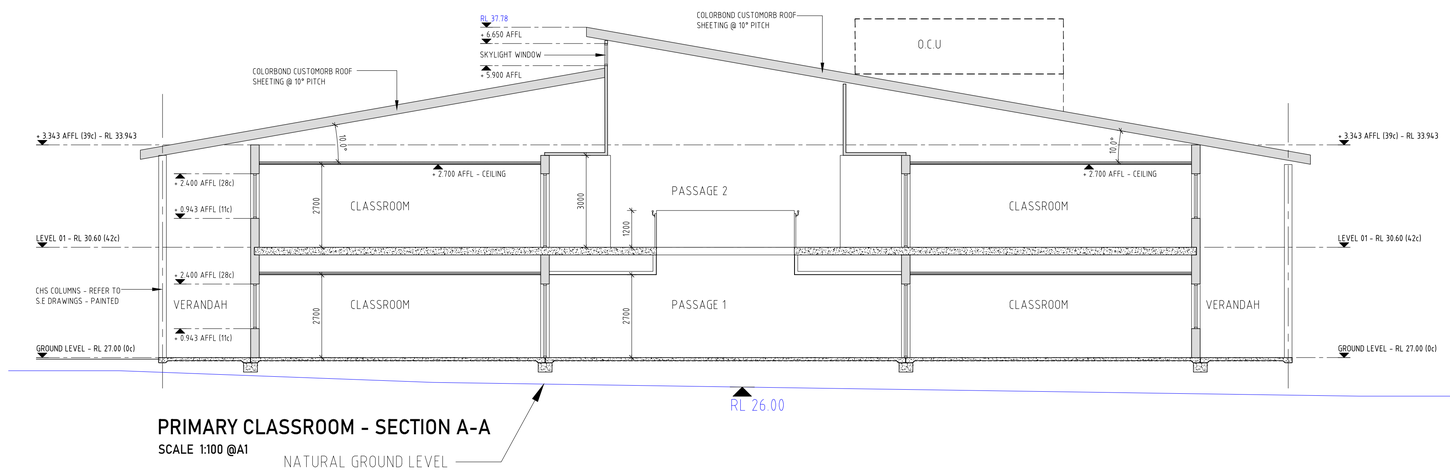
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A	28-06-2021	NS	COUNCIL DA ISSUE

20-371-DA05-2 PRIMARY PLAN L01.DWG 21.10.2021 3:26 PM

DEVELOPMENT ASSESSMENT PANEL
APPROVED
10-Dec-2021



PRIMARY CLASSROOM ROOF PLAN
SCALE 1:200 @A1



PRIMARY CLASSROOM - SECTION A-A
SCALE 1:100 @A1

A I C

FORRESTDALE

PROPOSED BUILDING WORKS

NORTH

MAROCCHI engineering group
Suite 3, 158 Newcastle Street, Perth W.A. 6000
Tel. (08) 9328 5700

PROJECT
AUSTRALIAN ISLAMIC COLLEGE
LOT 15 (651) NICHOLSON ROAD
FORRESTDALE

SHEET
PRIMARY CLASSROOM BUILDING
ROOF PLAN & SECTION A-A

DRAWN	PH	SCALE	1:100, 1:200 @ A1 1:200, 1:400 @ A3
DESIGNED	NC	DRG No	20-371-DA05-3
CHECKED	NC	REV	B

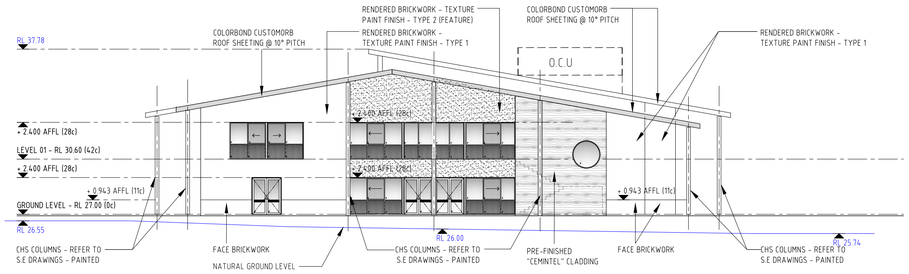
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A	28-06-2021	NS	COUNCIL DA ISSUE

20-371-DA05-3 PRIMARY ROOF & SECTION.DWG 21.10.2021 3:27 PM

DEVELOPMENT ASSESSMENT PANEL

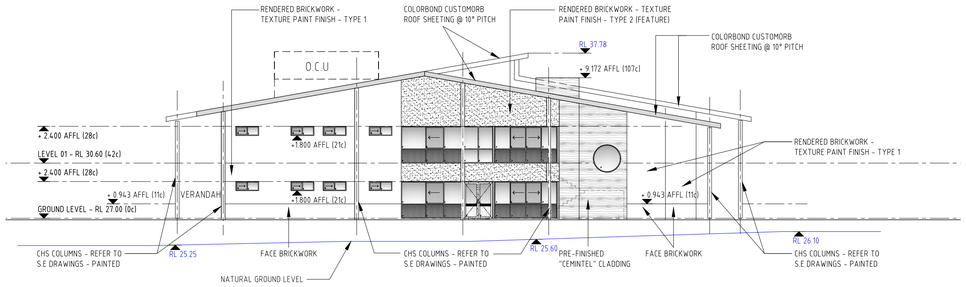
APPROVED

10-Dec-2021



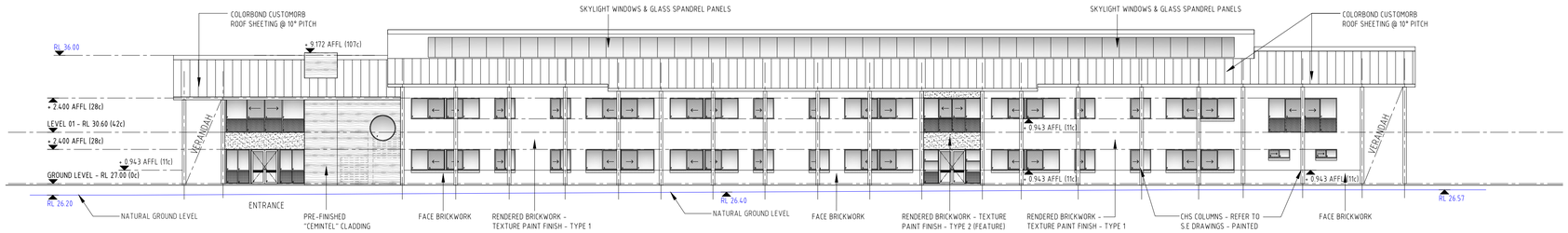
PRIMARY CLASSROOM ELEVATION 1

SCALE 1:200 @A1



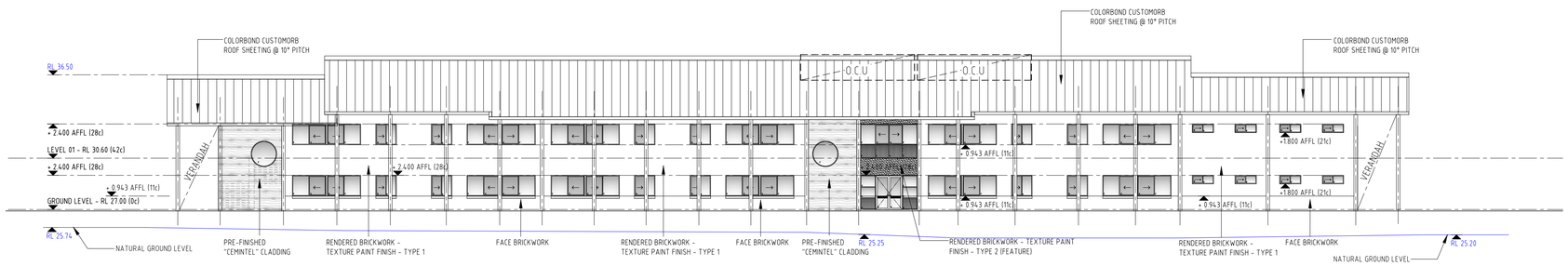
PRIMARY CLASSROOM ELEVATION 3

SCALE 1:200 @A1



PRIMARY CLASSROOM ELEVATION 2

SCALE 1:200 @A1



PRIMARY CLASSROOM ELEVATION 4

SCALE 1:200 @A1

A I C FORRESTDALE

PROPOSED BUILDING WORKS

MAROCCHI engineering group
Suite 3, 158 Newcastle Street, Perth W.A. 6000
Tel. (08) 9328 5700

PROJECT
AUSTRALIAN ISLAMIC COLLEGE
LOT 15 (651) NICHOLSON ROAD
FORRESTDALE

SHEET
PRIMARY CLASSROOM BUILDING ELEVATIONS

DRAWN	PH	SCALE	1:200 @ A1 1:400 @ A3
DESIGNED	NC	DRG No	20-371-DA05-4
CHECKED	NC	REV	B

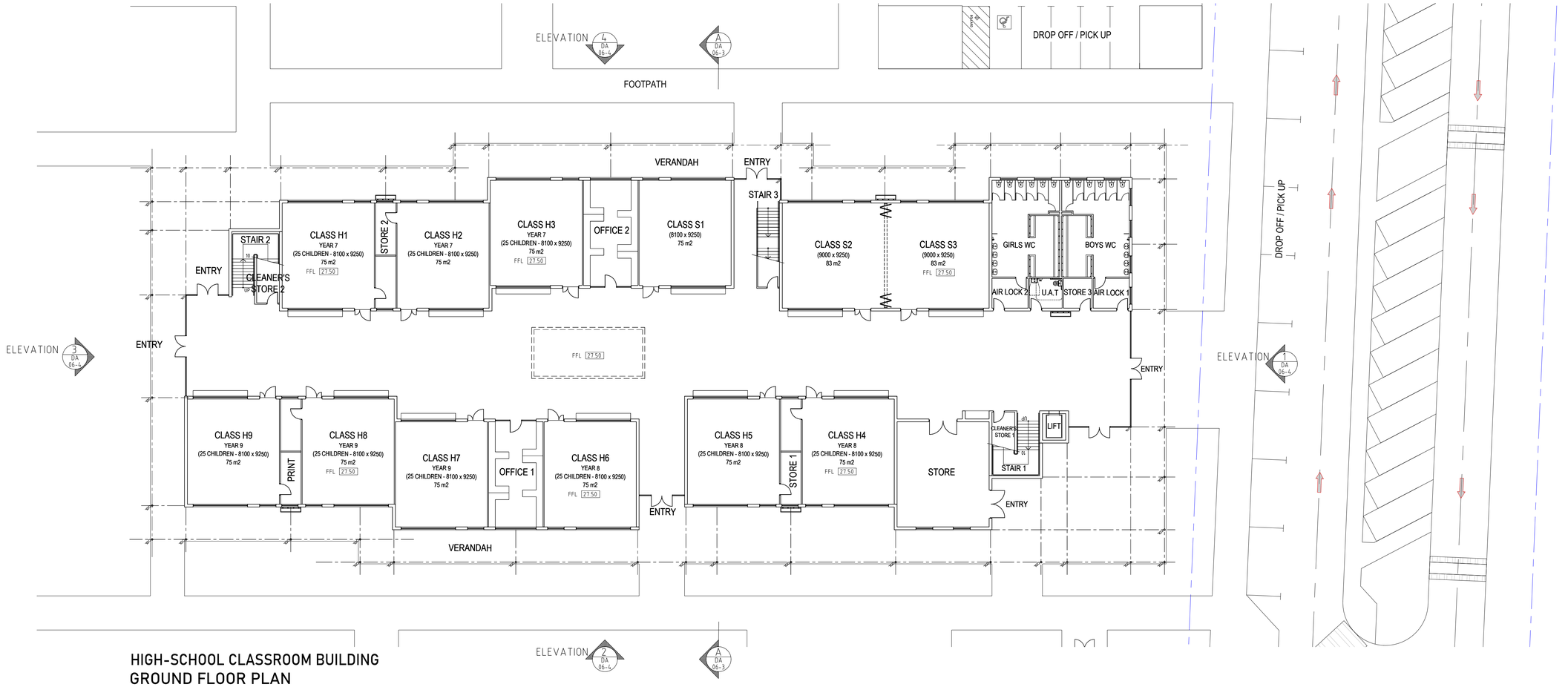
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A	28-06-2021	NS	COUNCIL DA ISSUE

20-371-DA05-4 PRIMARY ELEVATIONS.DWG 21.10.2021 3:27 PM

DEVELOPMENT ASSESSMENT PANEL

APPROVED

10-Dec-2021



HIGH-SCHOOL CLASSROOM BUILDING
GROUND FLOOR PLAN

SCALE 1:200 @A1

HIGH-SCHOOL CLASSROOMS

PROPOSED FLOOR AREA

GROUND FLOOR BUILDING :	2280 m^2
FIRST FLOOR BUILDING :	2280 m^2
	4560 m^2

A I C

FORRESTDALE

PROPOSED BUILDING WORKS

NORTH

MAROCCHI engineering group
Suite 3, 158 Newcastle Street, Perth W.A. 6000
Tel. (08) 9328 5700

PROJECT

AUSTRALIAN ISLAMIC COLLEGE
LOT 15 (651) NICHOLSON ROAD
FORRESTDALE

SHEET

HIGH SCHOOL CLASSROOM BUILDING
GROUND FLOOR PLAN

DRAWN	PH	SCALE	1:100 @ A1 1:200 @ A3
DESIGNED	NC	DRG No	20-371-DA06-1
CHECKED	NC	REV	B

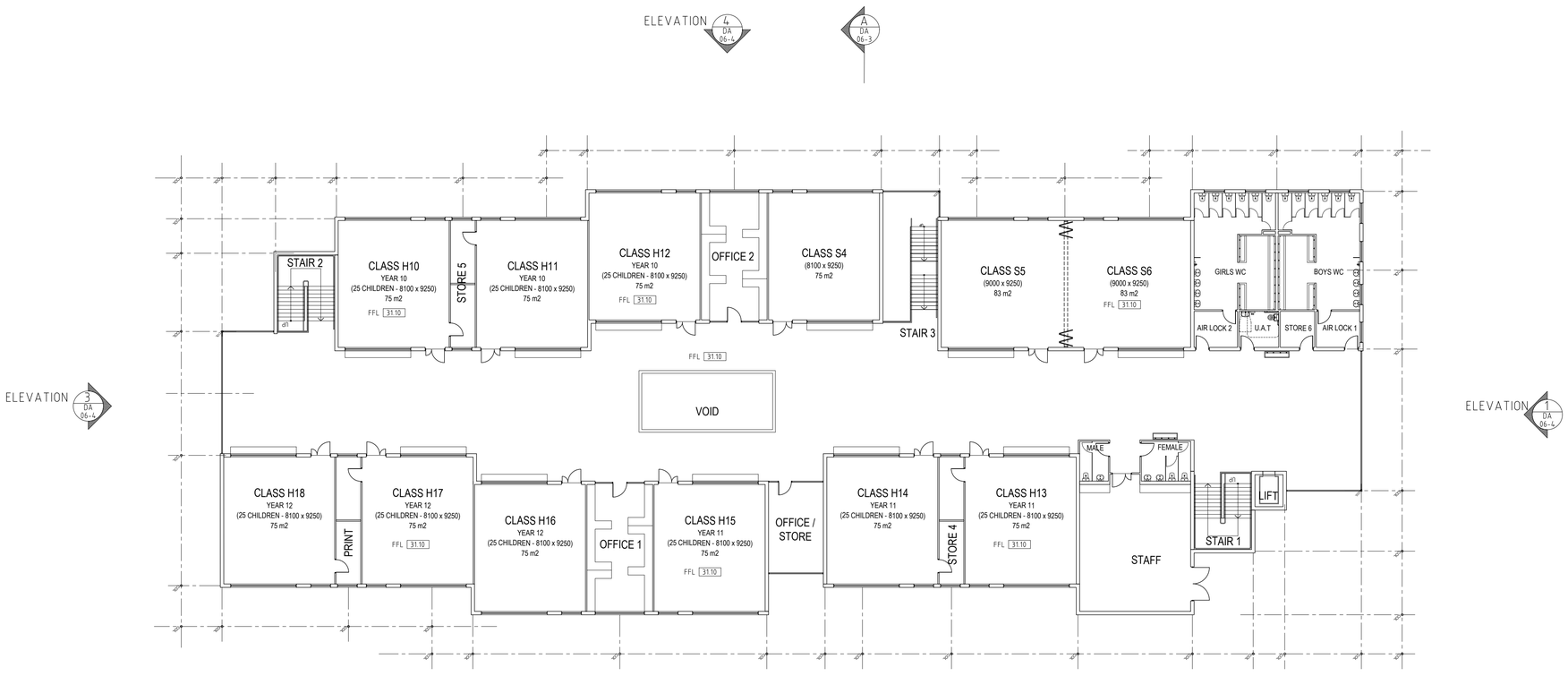
REV	DATE	CHKD	DESCRIPTION
B	22-10-2021	NS	COUNCIL DA ISSUE
A	28-06-2021	NS	COUNCIL DA ISSUE

20-371-DA06-1 HIGH SCHOOL PLAN L00.DWG 21.10.2021 3:28 PM

DEVELOPMENT ASSESSMENT PANEL

APPROVED

10-Dec-2021

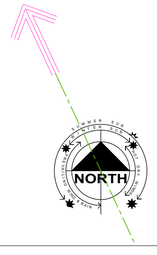


HIGH-SCHOOL CLASSROOM BUILDING
FIRST FLOOR PLAN
SCALE 1:200 @A1

A I C

FORRESTDALE

PROPOSED BUILDING WORKS



MAROCCHI engineering group
Suite 3, 158 Newcastle Street, Perth W.A. 6000
Tel. (08) 9328 5700

PROJECT
AUSTRALIAN ISLAMIC COLLEGE
LOT 15 (651) NICHOLSON ROAD
FORRESTDALE

SHEET
HIGH SCHOOL CLASSROOM BUILDING
FIRST FLOOR PLAN

DRAWN	PH	SCALE	1:100 @ A1 1:200 @ A3
DESIGNED	NC	DRG No	20-371-DA06-2
CHECKED	NC	REV	B

REV	DATE	CHKD	DESCRIPTION
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A	28-06-2021	NS	COUNCIL DA ISSUE

20-371-DA06-2 HIGH SCHOOL PLAN L01.DWG 21.10.2021 3:28 PM

DEVELOPMENT ASSESSMENT PANEL

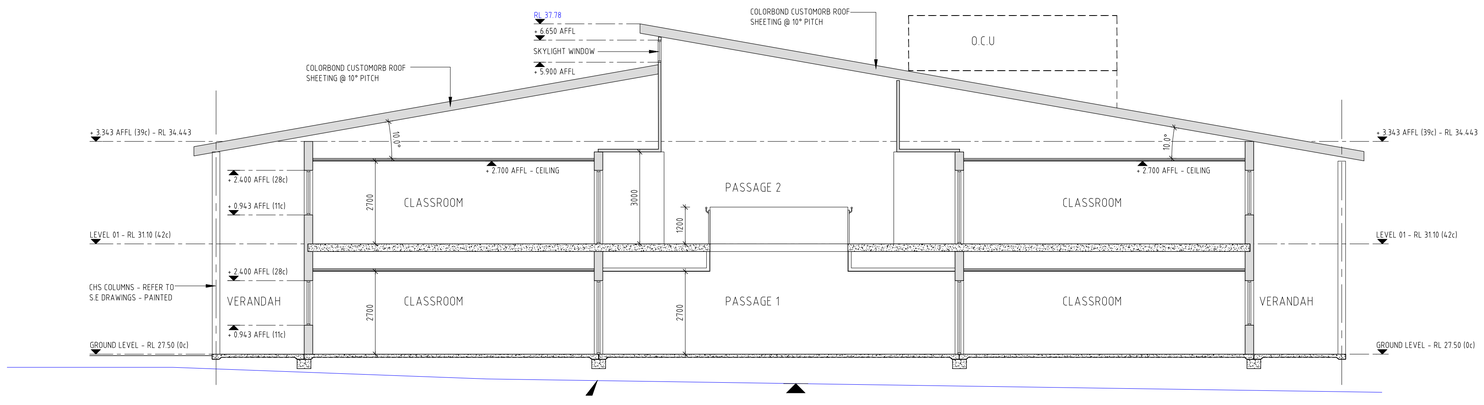
APPROVED

10-Dec-2021



HIGH-SCHOOL CLASSROOM ROOF PLAN

SCALE 1:200 @A1



HIGH-SCHOOL CLASSROOM - SECTION A-A

SCALE 1:100 @A1

A I C

FORRESTDALE

PROPOSED BUILDING WORKS

MAROCCHI engineering group
Suite 3, 158 Newcastle Street, Perth W.A. 6000
Tel. (08) 9328 5700

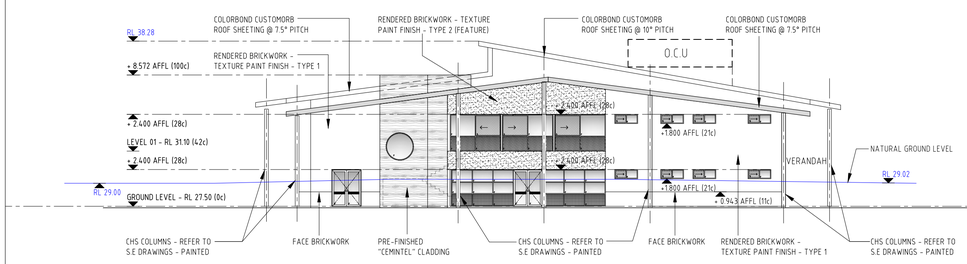
PROJECT
AUSTRALIAN ISLAMIC COLLEGE
LOT 15 (651) NICHOLSON ROAD
FORRESTDALE

SHEET
HIGH SCHOOL CLASSROOM BUILDING
ROOF PLAN & SECTION A-A

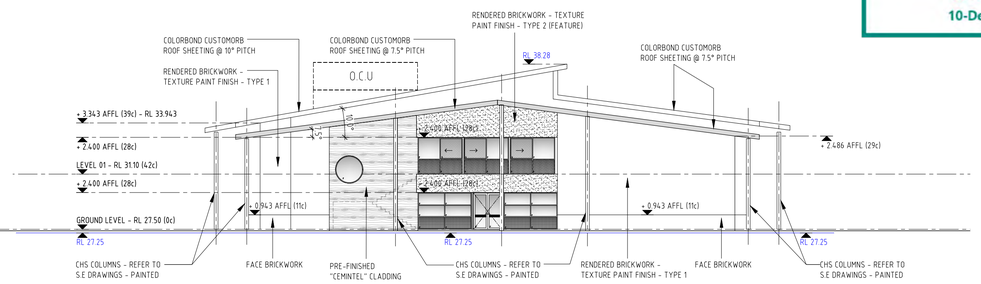
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DESIGNED	NC	DRG No	20-371-DA06-3
CHECKED	NC	REV	B

REV	DATE	CHKD	DESCRIPTION
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A	28-06-2021	NS	COUNCIL DA ISSUE

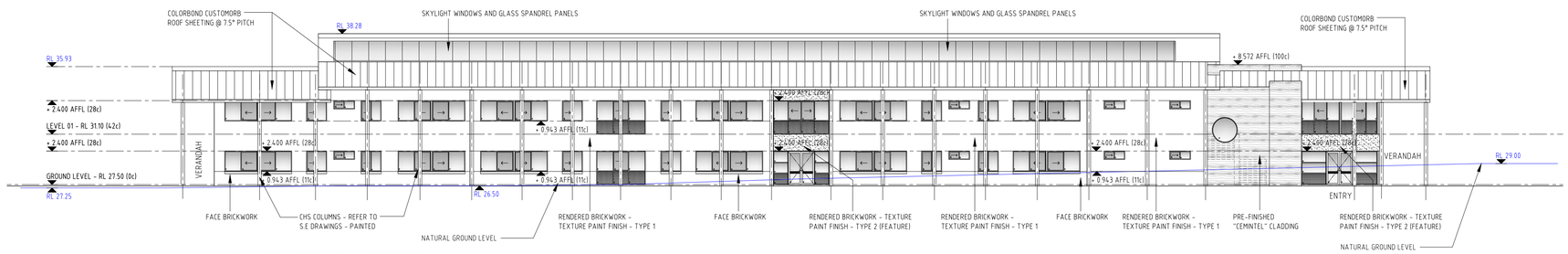
DEVELOPMENT ASSESSMENT PANEL
APPROVED
10-Dec-2021



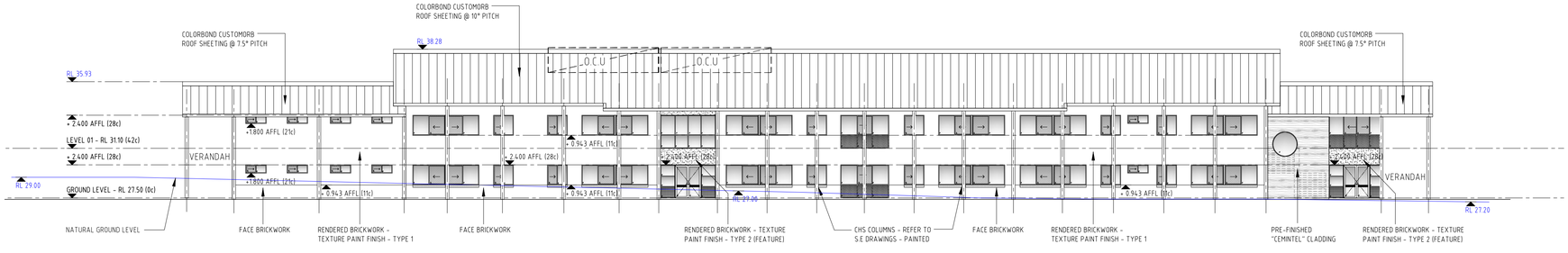
HIGH-SCHOOL CLASSROOM
ELEVATION 1
SCALE 1:200 @A1



HIGH-SCHOOL CLASSROOM
ELEVATION 3
SCALE 1:200 @A1



HIGH-SCHOOL CLASSROOM
ELEVATION 2
SCALE 1:200 @A1



HIGH-SCHOOL CLASSROOM
ELEVATION 4
SCALE 1:200 @A1

A I C

FORRESTDALE

PROPOSED BUILDING WORKS

MAROCCHI engineering group
Suite 3, 158 Newcastle Street, Perth W.A. 6000
Tel. (08) 9328 5700

PROJECT
AUSTRALIAN ISLAMIC COLLEGE
LOT 15 (651) NICHOLSON ROAD
FORRESTDALE

SHEET
HIGH-SCHOOL CLASSROOM BUILDING ELEVATIONS

DRAWN	PH	SCALE	1:200 @ A1 1:400 @ A3
DESIGNED	NC	DRG No	20-371-DA06-4
CHECKED	NC	REV	B

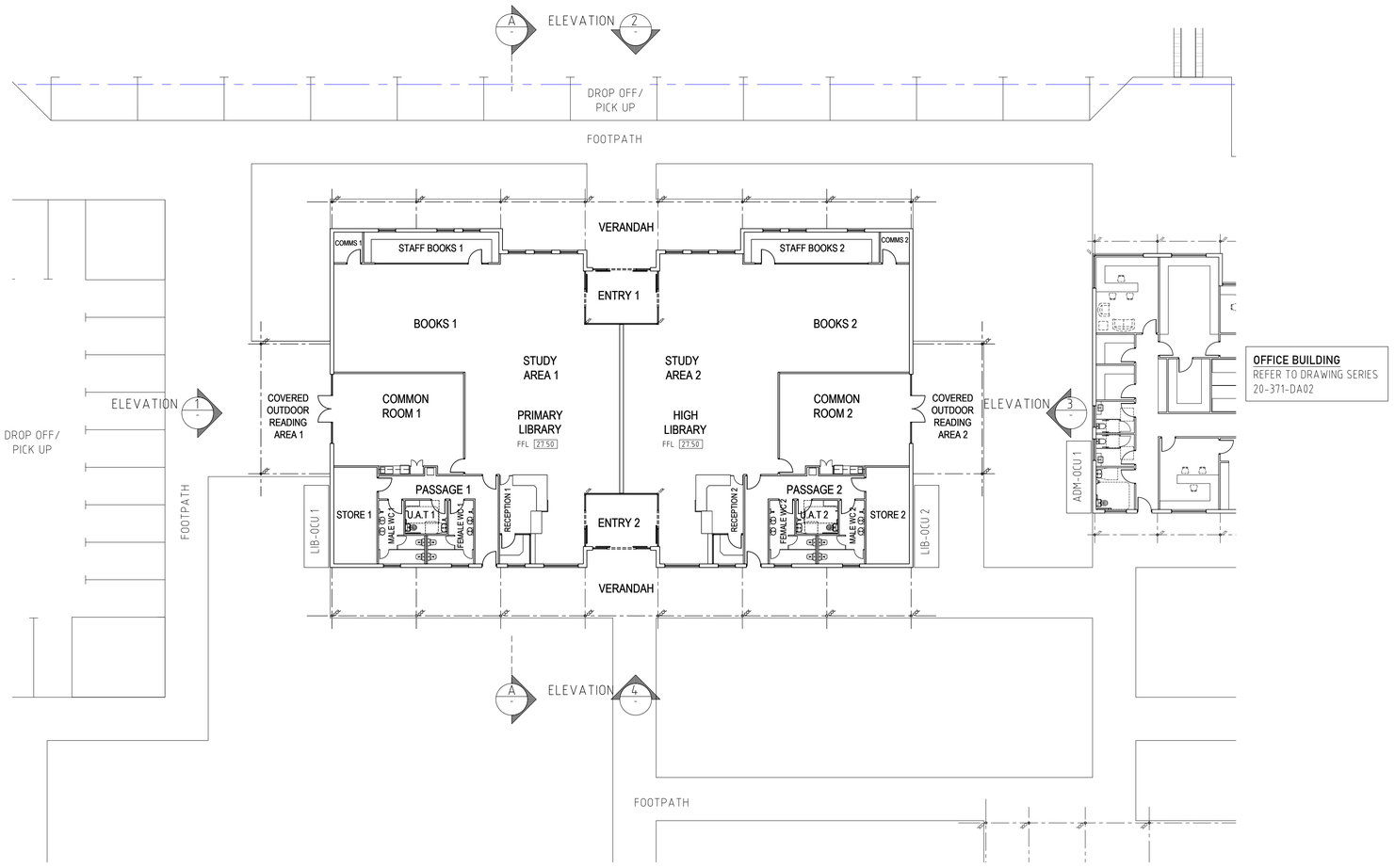
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B	22-10-2021	NS	COUNCIL DA ISSUE
A	28-06-2021	NS	COUNCIL DA ISSUE

20-371-DA06-4 HIGH SCHOOL ELEVATIONS.DWG 21.10.2021 3:29 PM

DEVELOPMENT ASSESSMENT PANEL

APPROVED

10-Dec-2021



LIBRARY BUILDING - FLOOR PLAN

SCALE 1:200 @A1

LIBRARY BUILDING

PROPOSED FLOOR AREA

GROUND FLOOR BUILDING :	913 m²
VERANDAH :	350 m²
	1263 m²

A I C

FORRESTDALE

PROPOSED BUILDING WORKS

MAROCCHI engineering group
Suite 3, 158 Newcastle Street, Perth W.A. 6000
Tel. (08) 9328 5700

PROJECT
AUSTRALIAN ISLAMIC COLLEGE
LOT 15 (651) NICHOLSON ROAD
FORRESTDALE

SHEET
LIBRARY BUILDING
GROUND FLOOR PLAN

DRAWN	PH	SCALE	1:200 @ A1 1:400 @ A3
DESIGNED	NC	DRG No	20-371-DA07-1
CHECKED	NC	REV	B

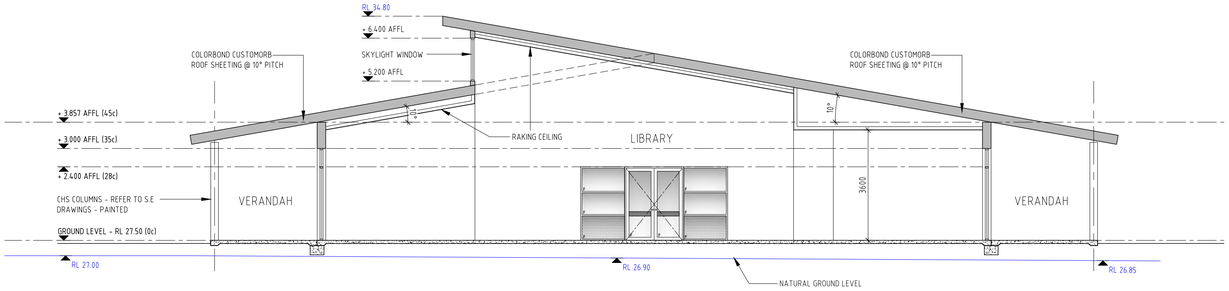
REV	DATE	CHKD	DESCRIPTION
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A	28-06-2021	NS	COUNCIL DA ISSUE

20-371-DA07-1 LIBRARY PLAN.DWG 21.10.2021 3:30 PM

DEVELOPMENT ASSESSMENT PANEL

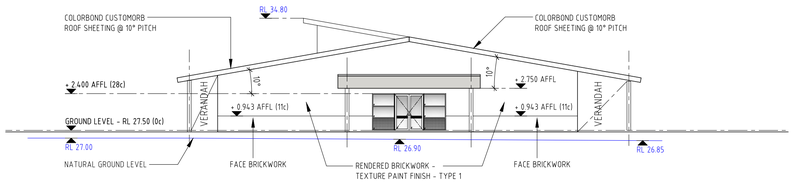
APPROVED

10-Dec-2021



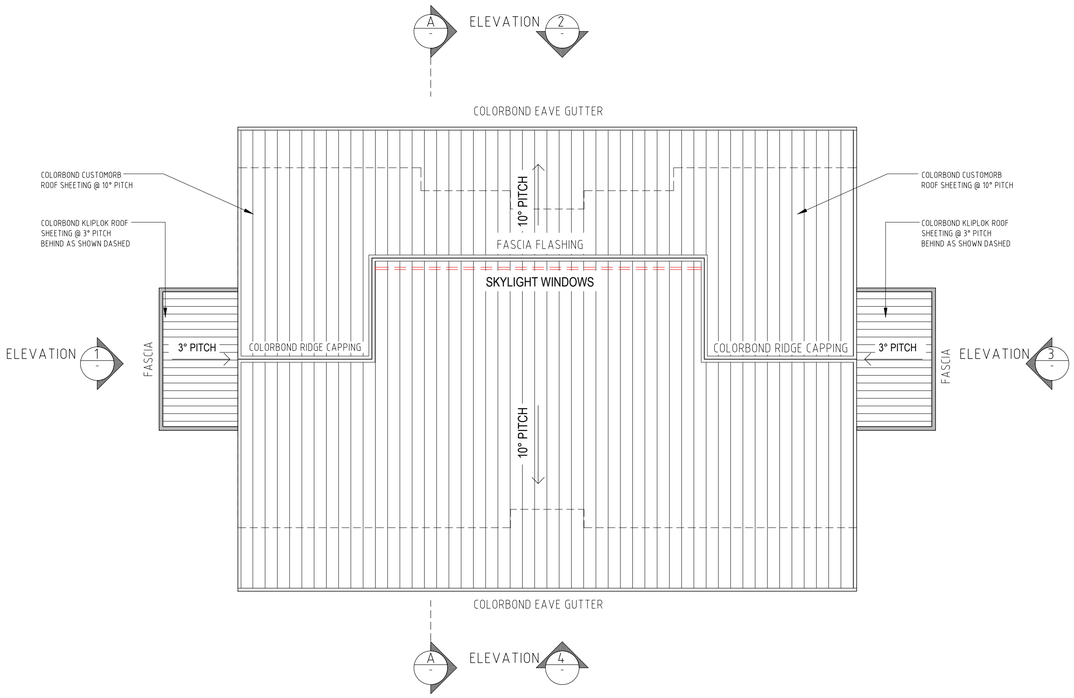
LIBRARY BUILDING - SECTION A

SCALE 1:100 @A1



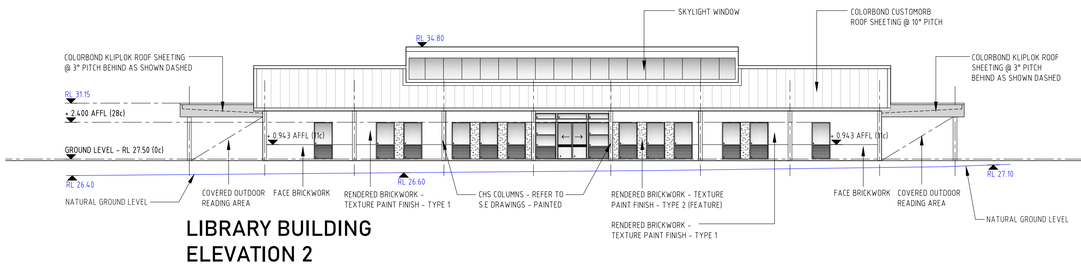
LIBRARY BUILDING
ELEVATION 1
SIMILAR/HANDED TO ELEVATION 3

SCALE 1:200 @A1



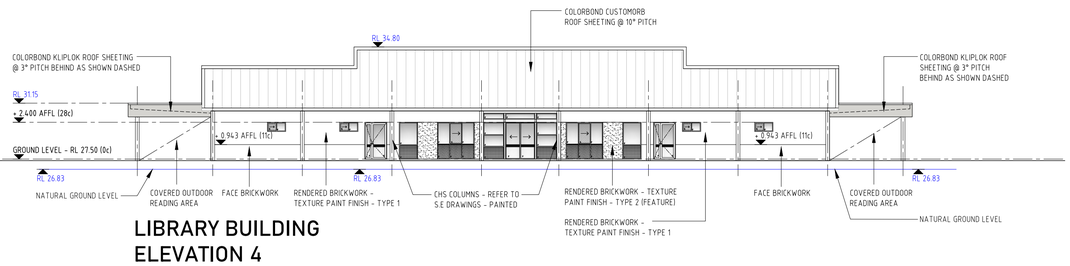
LIBRARY BUILDING - ROOF PLAN

SCALE 1:200 @A1



LIBRARY BUILDING
ELEVATION 2

SCALE 1:200 @A1



LIBRARY BUILDING
ELEVATION 4

SCALE 1:200 @A1

A I C

FORRESTDALE

PROPOSED BUILDING WORKS

NORTH

MAROCCHI engineering group
Suite 3, 158 Newcastle Street, Perth W.A. 6000
Tel. (08) 9328 5700

PROJECT
AUSTRALIAN ISLAMIC COLLEGE
LOT 15 (651) NICHOLSON ROAD
FORRESTDALE

SHEET
LIBRARY BUILDING
ROOF PLAN, SECTION AND ELEVATIONS

DRAWN	PH	SCALE	1:100, 1:200 @ A1 1:200, 1:400 @ A3
DESIGNED	NC	DRG No	20-371-DA07-2
CHECKED	NC	REV	B

REV	DATE	CHKD	DESCRIPTION
B	22-10-2021	NS	COUNCIL DA ISSUE
A	28-06-2021	NS	COUNCIL DA ISSUE

20-371-DA07-2 LIBRARY ROOF, SEC & ELEVS.DWG 21.10.2021 3:30 PM

DEVELOPMENT ASSESSMENT PANEL

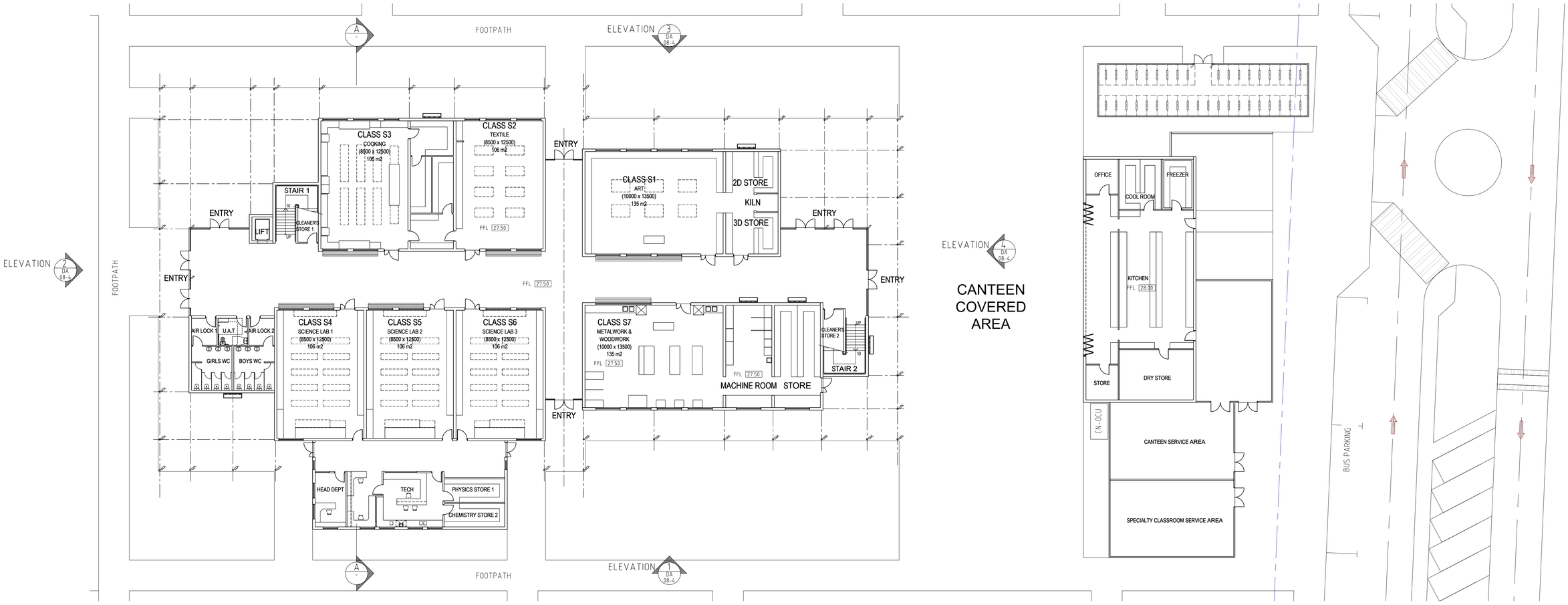
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10-Dec-2021

CANTEEN

PROPOSED FLOOR AREA

GROUND FLOOR BUILDING : 262 m²



ELEVATION 4 DA 08-4

CANTEEN COVERED AREA

SPECIALTY CLASSROOM - GROUND FLOOR PLAN - L00

SCALE 1:200 @A1

SPECIALTY CLASSROOMS

PROPOSED FLOOR AREA

GROUND FLOOR BUILDING :	1810 m²
FIRST FLOOR BUILDING :	1650 m²
	3460 m²

CANTEEN BUILDING - GROUND FLOOR PLAN

SCALE 1:200 @A1

A I C FORRESTDALE

PROPOSED BUILDING WORKS

NORTH

MAROCCHI engineering group
Suite 3, 158 Newcastle Street, Perth W.A. 6000
Tel. (08) 9328 5700

PROJECT

AUSTRALIAN ISLAMIC COLLEGE
LOT 15 (651) NICHOLSON ROAD
FORRESTDALE

SHEET

SPECIALTY CLASSROOM & CANTEEN FLOOR PLAN - L00

DRAWN	PH	SCALE	1:100 @ A1 1:200 @ A3
DESIGNED	NC	DRG No	20-371-DA08-1
CHECKED	NC	REV	A

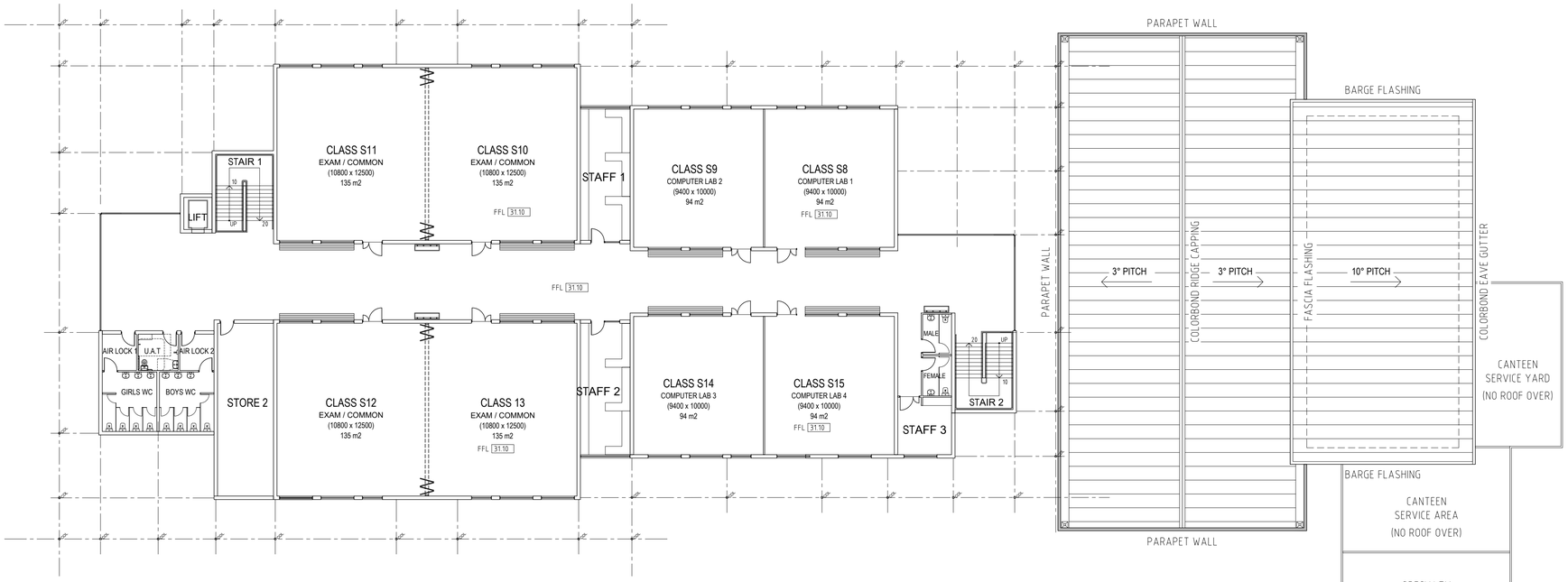
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A	28-06-2021	NS	COUNCIL DA ISSUE

20-371-DA08-1 SPECIALTY PLAN L00.DWG 22.06.2021 3:55 PM

DEVELOPMENT ASSESSMENT PANEL

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10-Dec-2021



SPECIALTY CLASSROOM - FIRST FLOOR PLAN - L01

SCALE 1:200 @A1

CANTEEN BUILDING- ROOF PLAN

SCALE 1:200 @A1

A I C

FORRESTDALE

PROPOSED BUILDING WORKS

NORTH

MAROCCHI
engineering group
Suite 3, 158 Newcastle Street, Perth W.A. 6000
Tel. (08) 9328 5700

PROJECT

AUSTRALIAN ISLAMIC COLLEGE
LOT 15 (651) NICHOLSON ROAD
FORRESTDALE

SHEET

SPECIALTY CLASSROOM BUILDING
FLOOR PLAN L01

DRAWN	PH	SCALE	1:100 @ A1 1:200 @ A3
DESIGNED	NC	DRG No	20-371-DA08-2
CHECKED	NC	REV	A

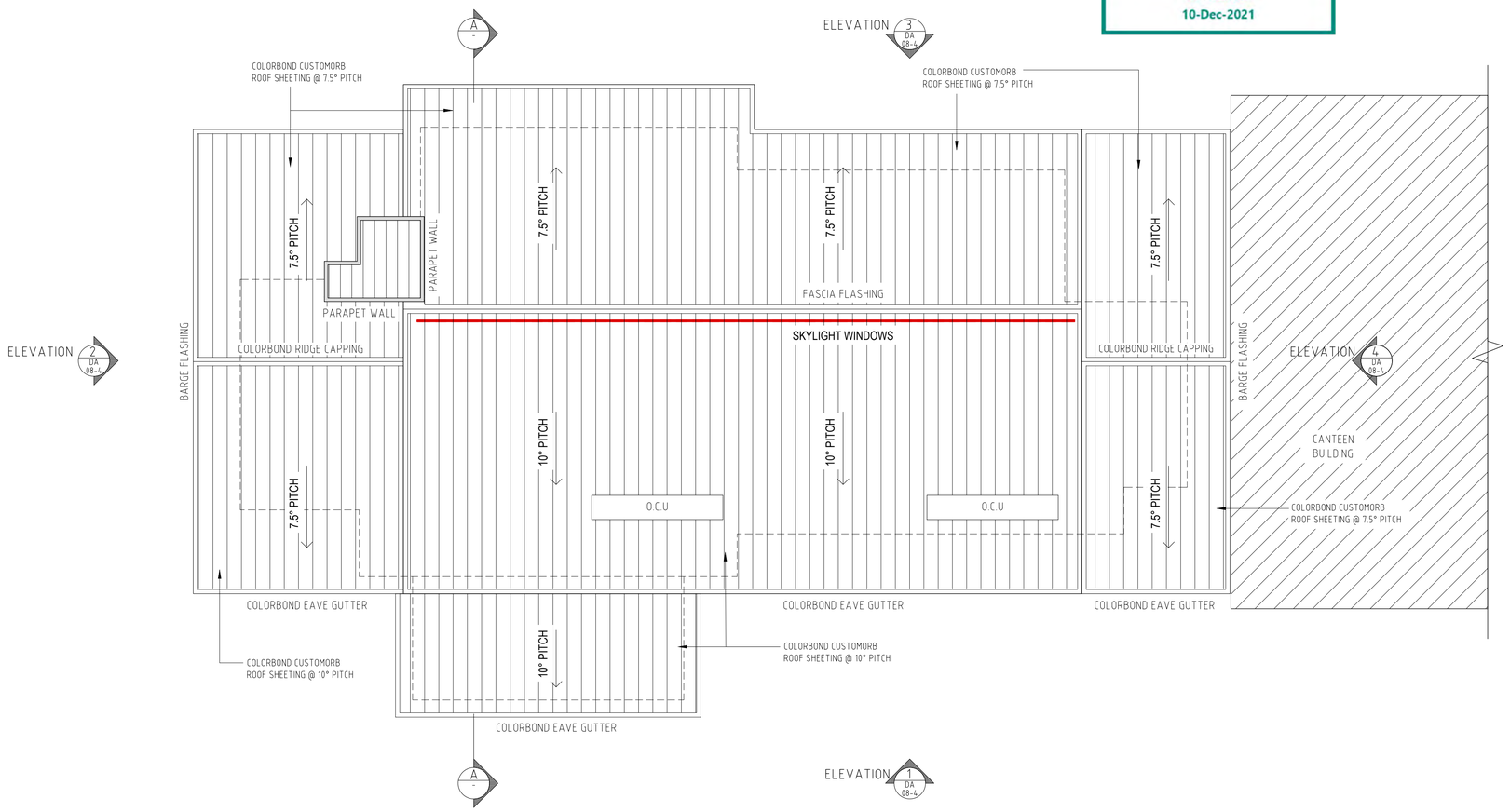
REV	DATE	CHKD	DESCRIPTION
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20-371-DA08-2 SPECIALTY PLAN L01.DWG 22.06.2021 3:54 PM

DEVELOPMENT ASSESSMENT PANEL

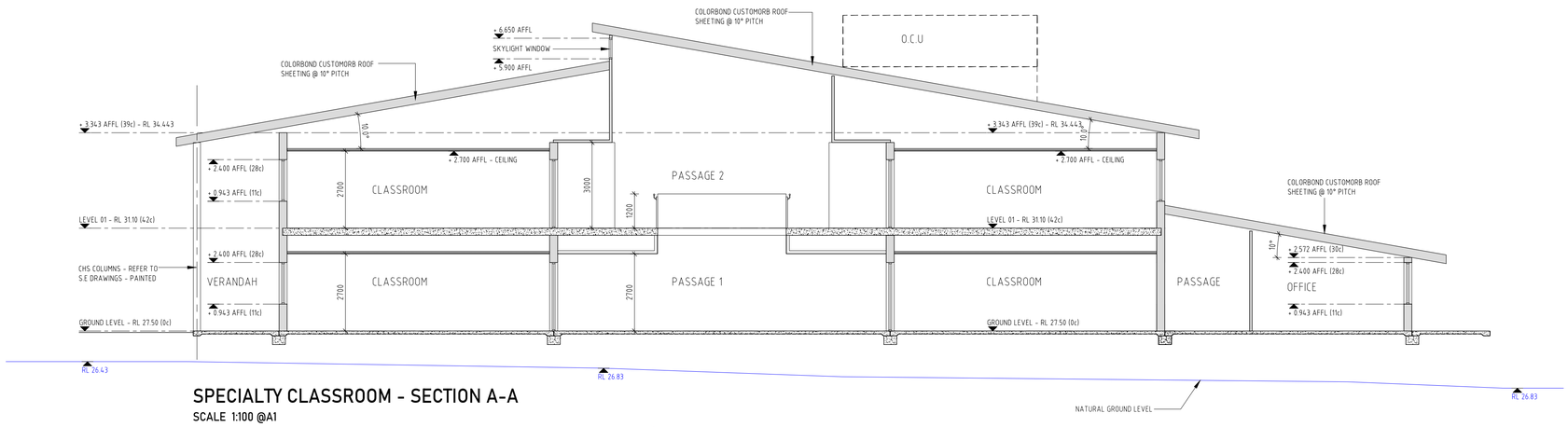
APPROVED

10-Dec-2021



SPECIALTY CLASSROOM - ROOF PLAN

SCALE 1:200 @A1



SPECIALTY CLASSROOM - SECTION A-A

SCALE 1:100 @A1

A I C

FORRESTDALE

PROPOSED BUILDING WORKS

NORTH

MAROCCHI engineering group
Suite 3, 158 Newcastle Street, Perth W.A. 6000
Tel. (08) 9328 5700

PROJECT

AUSTRALIAN ISLAMIC COLLEGE
LOT 15 (651) NICHOLSON ROAD
FORRESTDALE

SHEET

SPECIALTY CLASSROOM BUILDING
ROOF PLAN & SECTION A-A

DRAWN	PH	SCALE	1:100, 1:200 @ A1 1:200, 1:400 @ A3
DESIGNED	NC	DRG No	20-371-DA08-3
CHECKED	NC	REV	B

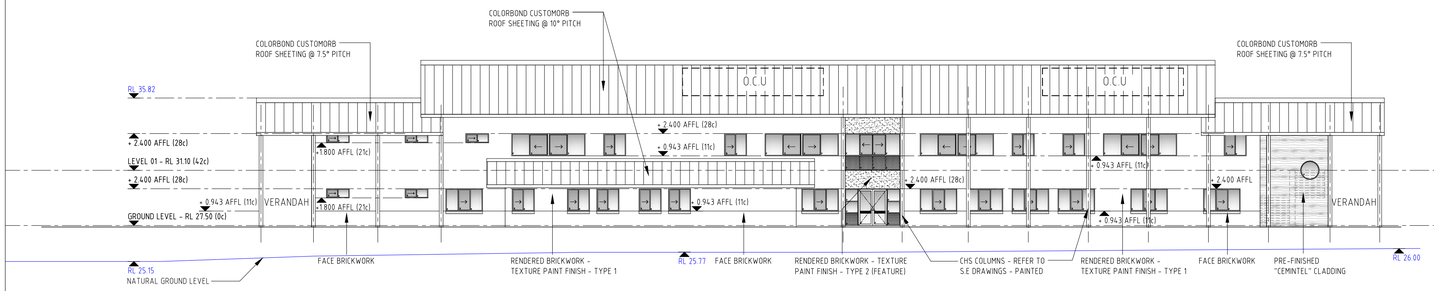
REV	DATE	CHKD	DESCRIPTION
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A	28-06-2021	NS	COUNCIL DA ISSUE

20-371-DA08-3 SPECIALTY ROOF & SECTION.DWG 21.10.2021 3:31 PM

DEVELOPMENT ASSESSMENT PANEL

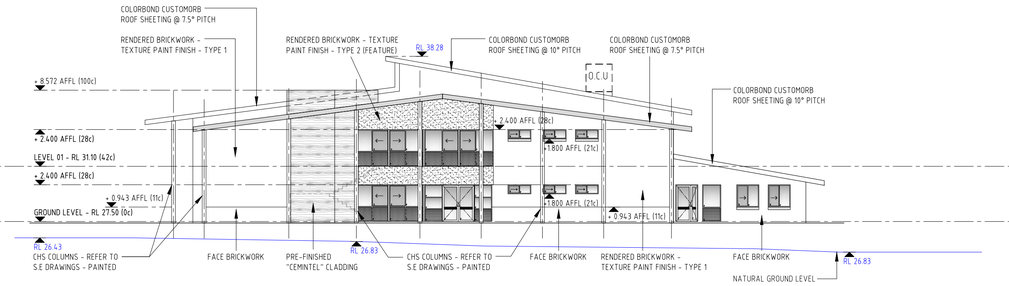
APPROVED

10-Dec-2021



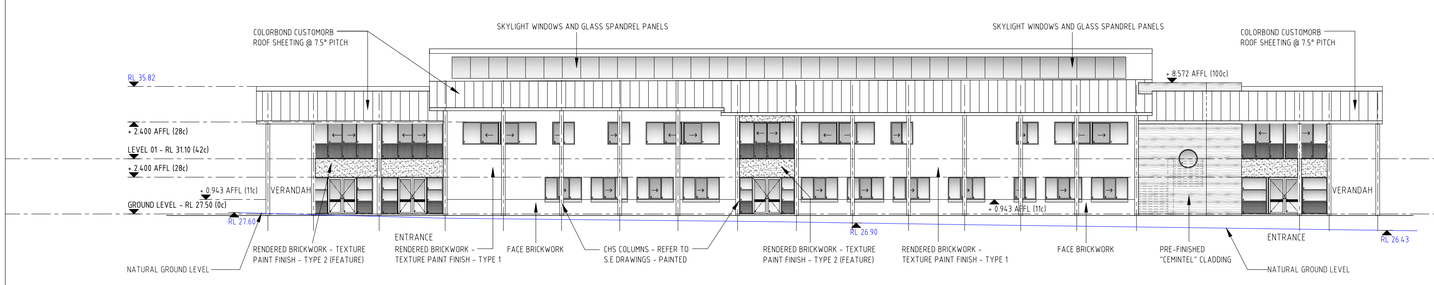
SPECIALTY CLASSROOM ELEVATION 1

SCALE 1:200 @A1



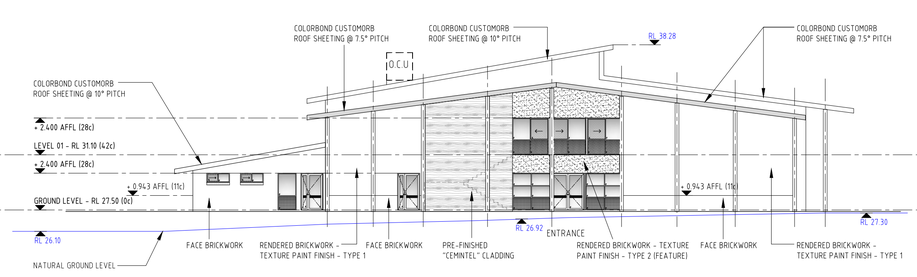
SPECIALTY CLASSROOM ELEVATION 2

SCALE 1:200 @A1



SPECIALTY CLASSROOM ELEVATION 3

SCALE 1:200 @A1



SPECIALTY CLASSROOM ELEVATION 4

SCALE 1:200 @A1

A I C

FORRESTDALE

PROPOSED BUILDING WORKS

MAROCCHI engineering group

Suite 3, 158 Newcastle Street, Perth W.A. 6000
Tel. (08) 9328 5700

PROJECT

AUSTRALIAN ISLAMIC COLLEGE
LOT 15 (651) NICHOLSON ROAD
FORRESTDALE

SHEET

SPECIALTY CLASSROOM BUILDING ELEVATIONS

DRAWN	PH	SCALE	1:200 @ A1 1:400 @ A3
DESIGNED	NC	DRG No	20-371-DA08-4
CHECKED	NC	REV	B

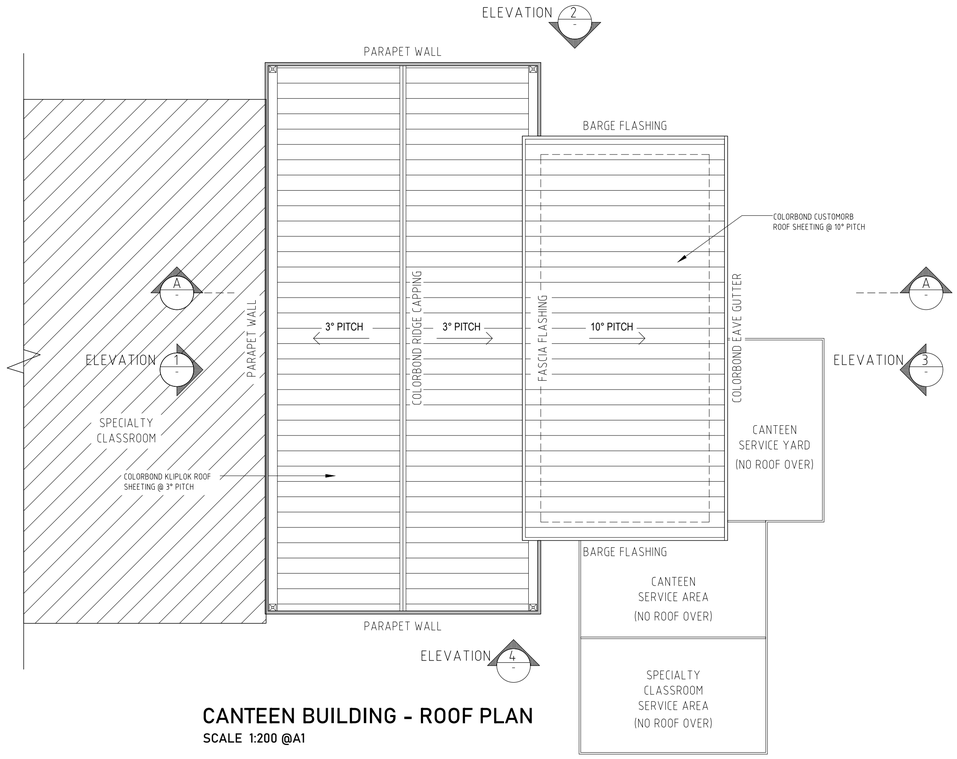
REV	DATE	CHKD	DESCRIPTION
B	22-10-2021	NS	COUNCIL DA ISSUE
A	28-06-2021	NS	COUNCIL DA ISSUE

20-371-DA08-4 SPECIALTY ELEVATIONS.DWG 21.10.2021 3:32 PM

DEVELOPMENT ASSESSMENT PANEL

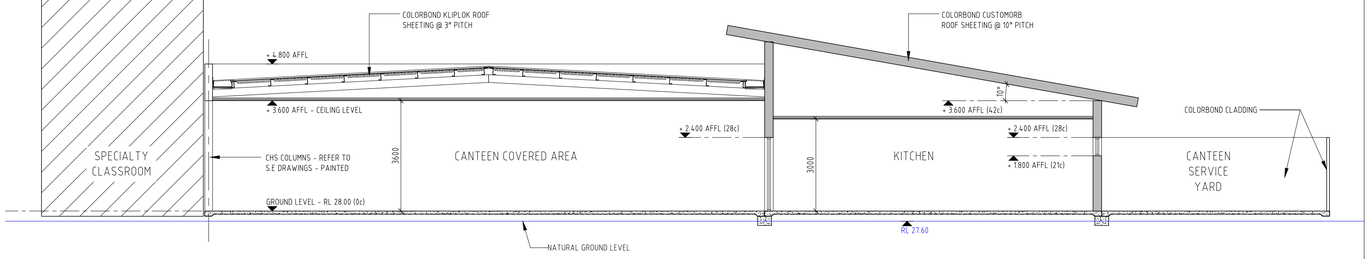
APPROVED

10-Dec-2021



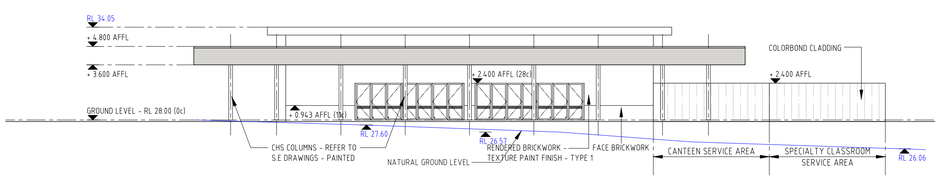
CANTEEN BUILDING - ROOF PLAN

SCALE 1:200 @A1



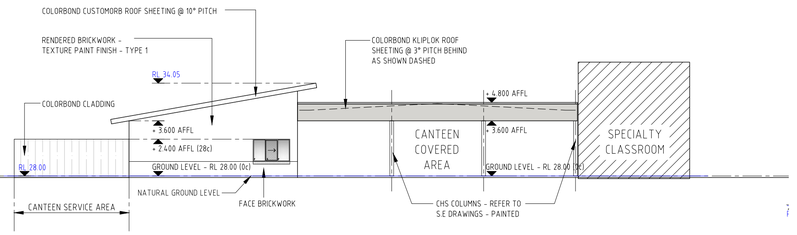
CANTEEN BUILDING - SECTION AA

SCALE 1:100 @A1



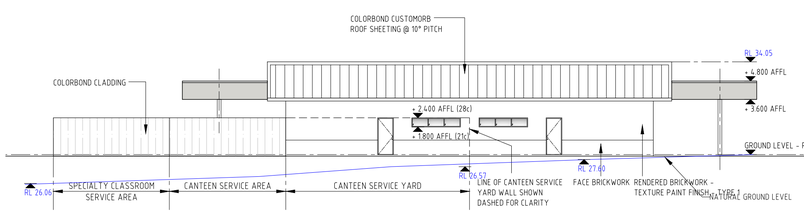
CANTEEN BUILDING
ELEVATION 1 (WEST ELEVATION)

SCALE 1:200 @A1



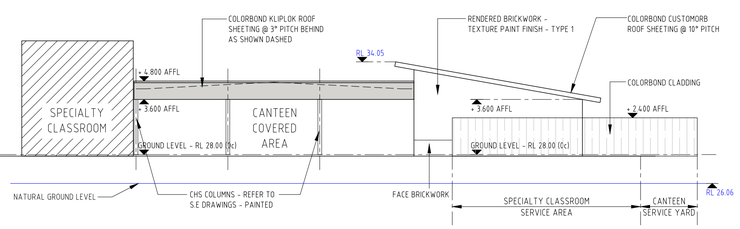
CANTEEN BUILDING
ELEVATION 2 (NORTH ELEVATION)

SCALE 1:200 @A1



CANTEEN BUILDING
ELEVATION 3 (EAST ELEVATION)

SCALE 1:200 @A1



CANTEEN BUILDING
ELEVATION 4 (SOUTH ELEVATION)

SCALE 1:200 @A1

A I C

FORRESTDALE

PROPOSED BUILDING WORKS

NORTH

MAROCCHI engineering group
Suite 3, 158 Newcastle Street, Perth W.A. 6000
Tel. (08) 9328 5700

PROJECT

AUSTRALIAN ISLAMIC COLLEGE
LOT 15 (651) NICHOLSON ROAD
FORRESTDALE

SHEET

CANTEEN BUILDING
ROOF PLAN, SECTION AND ELEVATIONS

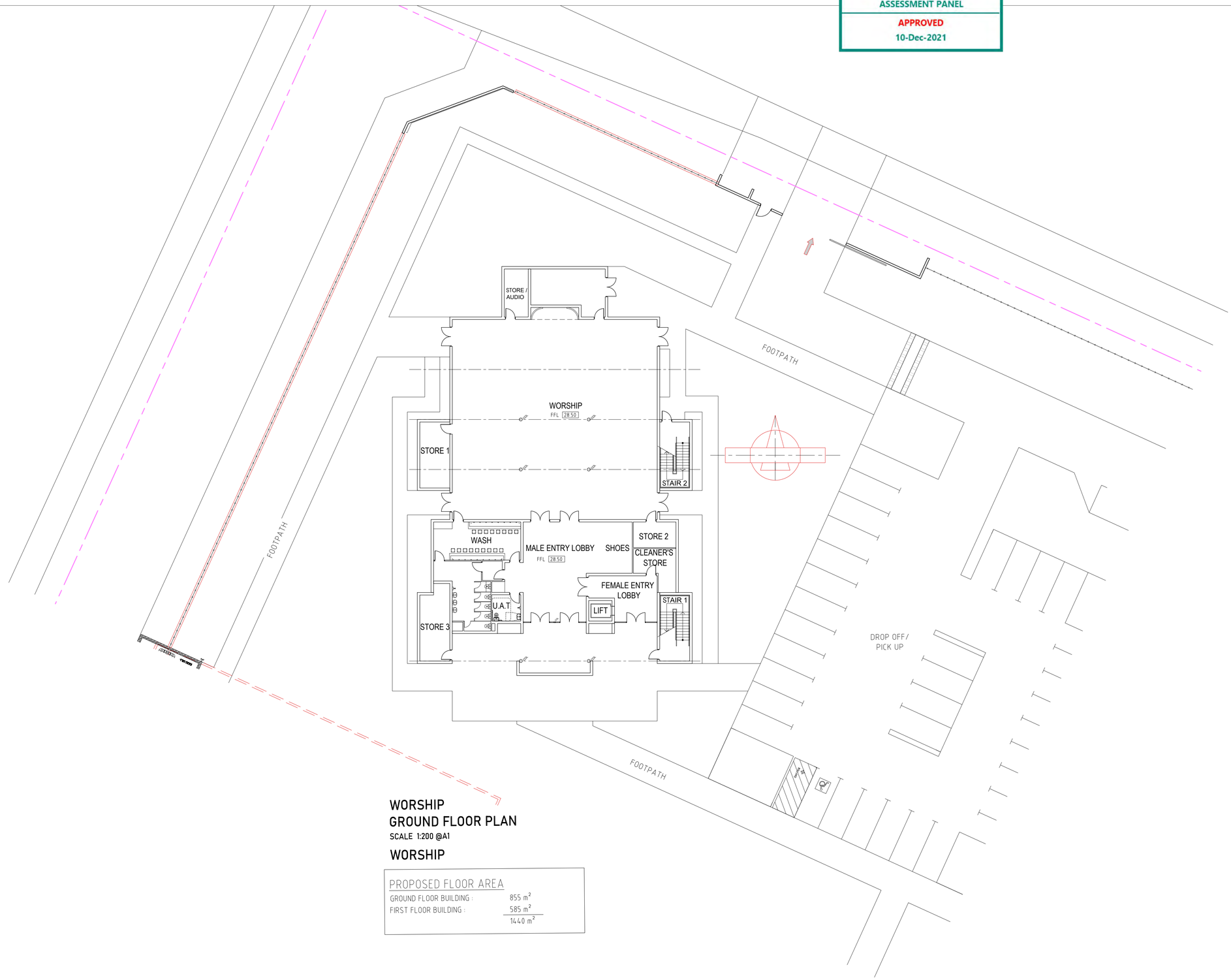
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DESIGNED	NC	DRG No 20-371-DA08-5	REV B
CHECKED	NC		

REV	DATE	CHKD	DESCRIPTION
B	22-10-2021	NS	COUNCIL DA ISSUE
A	28-06-2021	NS	COUNCIL DA ISSUE

20-371-DA08-5 CANTEEN ROOF, SEC & ELEVS.DWG 21.10.2021 3:32 PM

DEVELOPMENT
ASSESSMENT PANEL

APPROVED
10-Dec-2021



WORSHIP
GROUND FLOOR PLAN
SCALE 1:200 @A1

WORSHIP

PROPOSED FLOOR AREA

GROUND FLOOR BUILDING :	855 m²
FIRST FLOOR BUILDING :	585 m²
	1440 m²

A I C

FORRESTDALE

PROPOSED BUILDING WORKS

NORTH

MAROCCHI
engineering group
Suite 3, 158 Newcastle Street, Perth W.A. 6000
Tel. (08) 9328 5700

PROJECT
AUSTRALIAN ISLAMIC COLLEGE
LOT 15 (651) NICHOLSON ROAD
FORRESTDALE

SHEET
PLACE OF WORSHIP BUILDING
FLOOR PLAN L00

DRAWN	PH	SCALE	1:200 @ A1	1:400 @ A3	
DESIGNED	NC	DRG No	20-371-DA09-1	REV	B
CHECKED	NC				

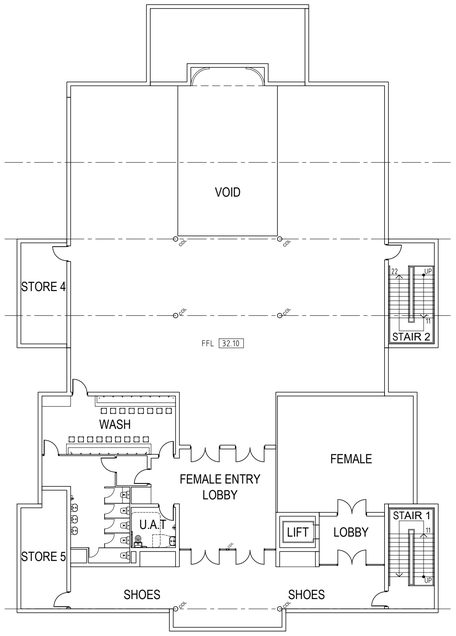
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A	28-06-2021	NS	COUNCIL DA ISSUE

20-371-DA09-1 WORSHIP L00.DWG 21.10.2021 3:33 PM

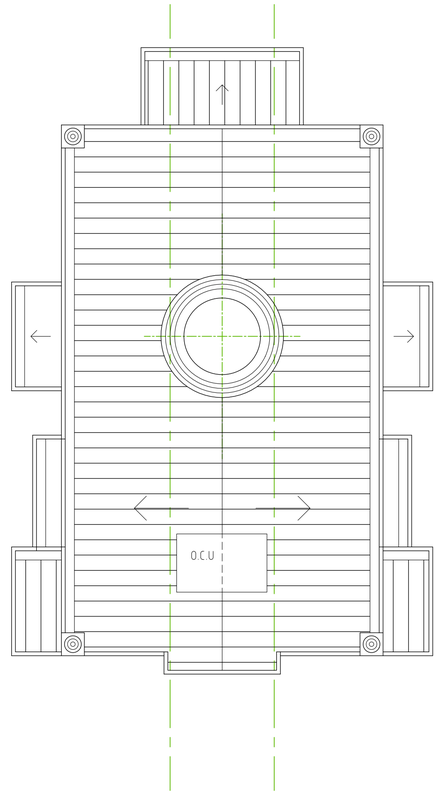
DEVELOPMENT
ASSESSMENT PANEL

APPROVED

10-Dec-2021



WORSHIP
FIRST FLOOR PLAN
SCALE 1:200 @A1



WORSHIP
ROOF PLAN
SCALE 1:200 @A1

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FORRESTDALE

PROPOSED BUILDING WORKS

NORTH

MAROCCHI
engineering group
Suite 3, 158 Newcastle Street, Perth W.A. 6000
Tel. (08) 9328 5700

PROJECT
AUSTRALIAN ISLAMIC COLLEGE
LOT 15 (651) NICHOLSON ROAD
FORRESTDALE

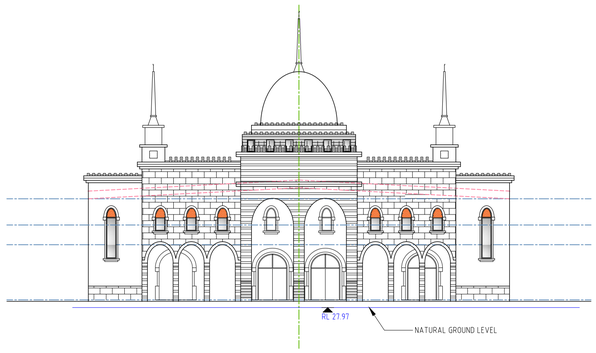
SHEET
PLACE OF WORSHIP BUILDING
FLOOR PLAN L01 AND ROOF PLAN

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DESIGNED	NC	DRG No	20-371-DA09-2
CHECKED	NC	REV	B

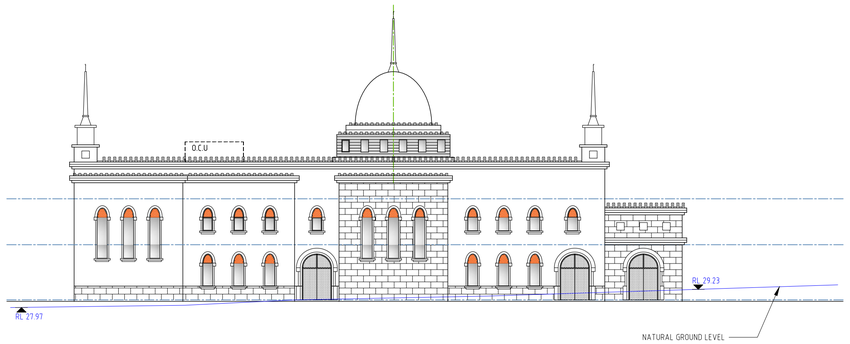
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B	22-10-2021	NS	COUNCIL DA ISSUE
A	28-06-2021	NS	COUNCIL DA ISSUE

20-371-DA09-2 WORSHIP L01 & ROOF.DWG 21.10.2021 3:33 PM

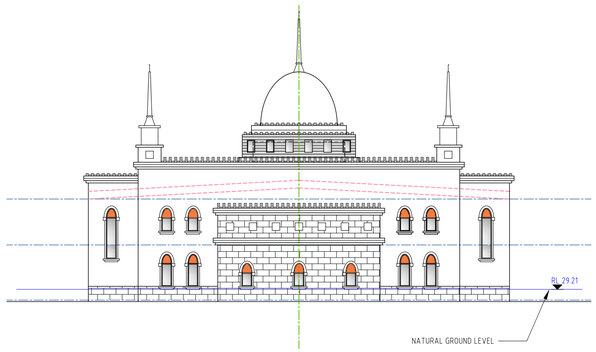
DEVELOPMENT
ASSESSMENT PANEL
APPROVED
10-Dec-2021



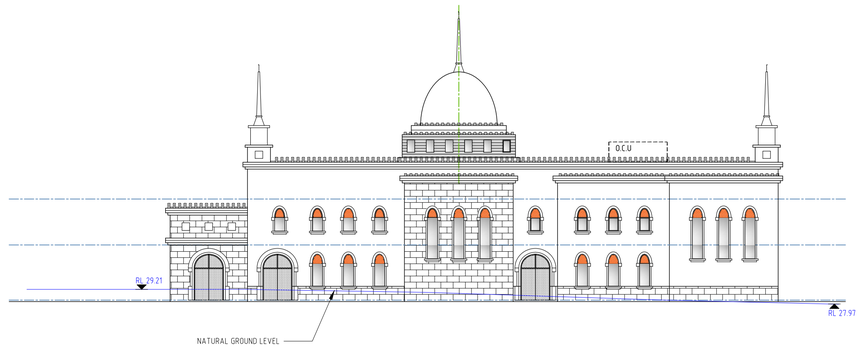
WORSHIP BUILDING
SOUTH ELEVATION
SCALE 1:200 @A1



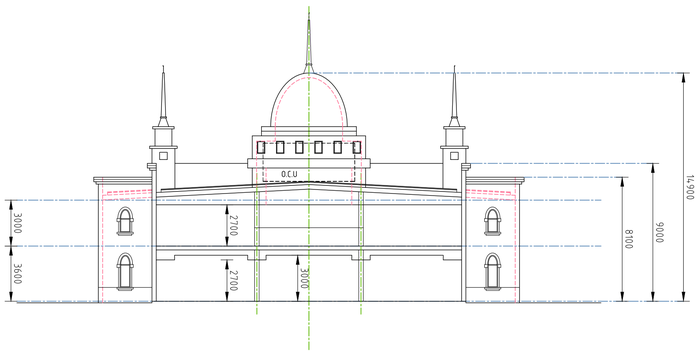
WORSHIP BUILDING
EAST ELEVATION
SCALE 1:200 @A1



WORSHIP BUILDING
NORTH ELEVATION
SCALE 1:200 @A1



WORSHIP BUILDING
WEST ELEVATION
SCALE 1:200 @A1



WORSHIP BUILDING
TYPICAL SECTION
SCALE 1:200 @A1

A I C

FORRESTDALE

PROPOSED BUILDING WORKS

MAROCCHI
engineering group
Suite 3, 158 Newcastle Street, Perth W.A. 6000
Tel. (08) 9328 5700

PROJECT
AUSTRALIAN ISLAMIC COLLEGE
LOT 15 (651) NICHOLSON ROAD
FORRESTDALE

SHEET
PLACE OF WORSHIP BUILDING
SECTION AND ELEVATIONS

DRAWN	PH	SCALE	1:200 @ A1 1:400 @ A3
DESIGNED	NC	DRG No	20-371-DA09-3
CHECKED	NC	REV	B

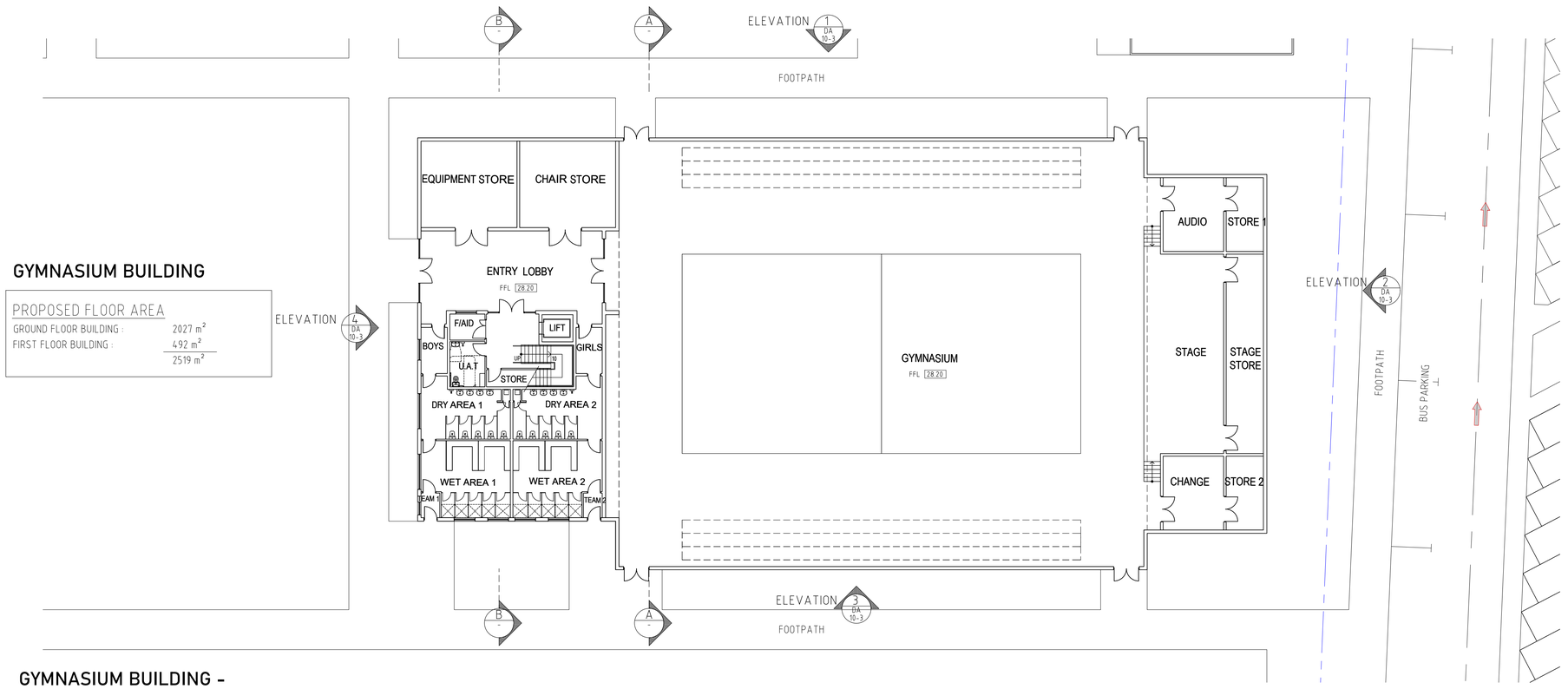
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A	28-06-2021	NS	COUNCIL DA ISSUE

20-371-DA09-3 WORSHIP SEC & ELEVS.DWG 21.10.2021 3:34 PM

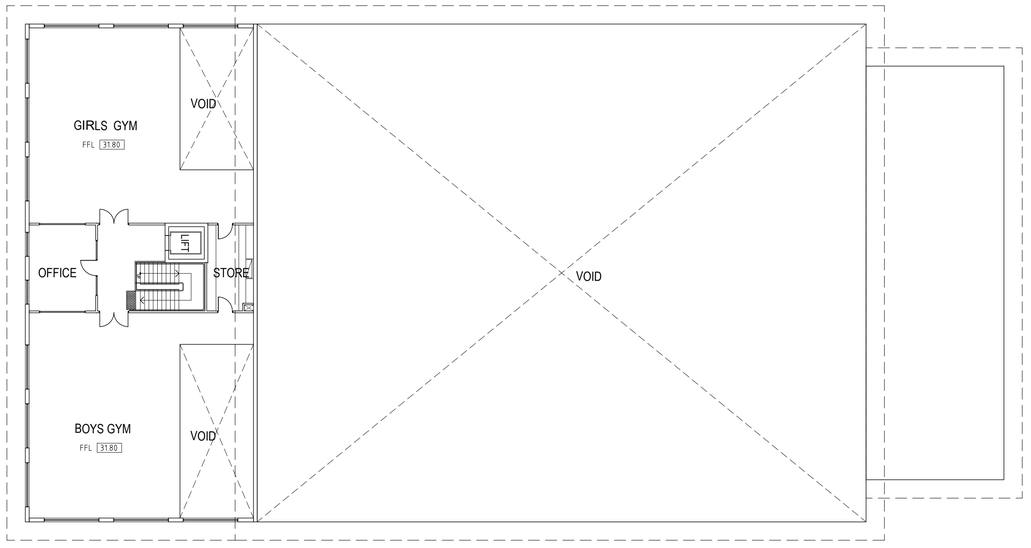
DEVELOPMENT ASSESSMENT PANEL
APPROVED
10-Dec-2021

GYMNASIUM BUILDING

PROPOSED FLOOR AREA
GROUND FLOOR BUILDING : 2027 m²
FIRST FLOOR BUILDING : 492 m²
2519 m²



GYMNASIUM BUILDING -
GROUND FLOOR PLAN - L00
SCALE 1:200 @A1



GYMNASIUM BUILDING -
FIRST FLOOR PLAN - L01
SCALE 1:200 @A1

A I C

FORRESTDALE

PROPOSED BUILDING WORKS

NORTH

MAROCCHI engineering group
Suite 3, 158 Newcastle Street, Perth W.A. 6000
Tel. (08) 9328 5700

PROJECT
AUSTRALIAN ISLAMIC COLLEGE
LOT 15 (651) NICHOLSON ROAD
FORRESTDALE

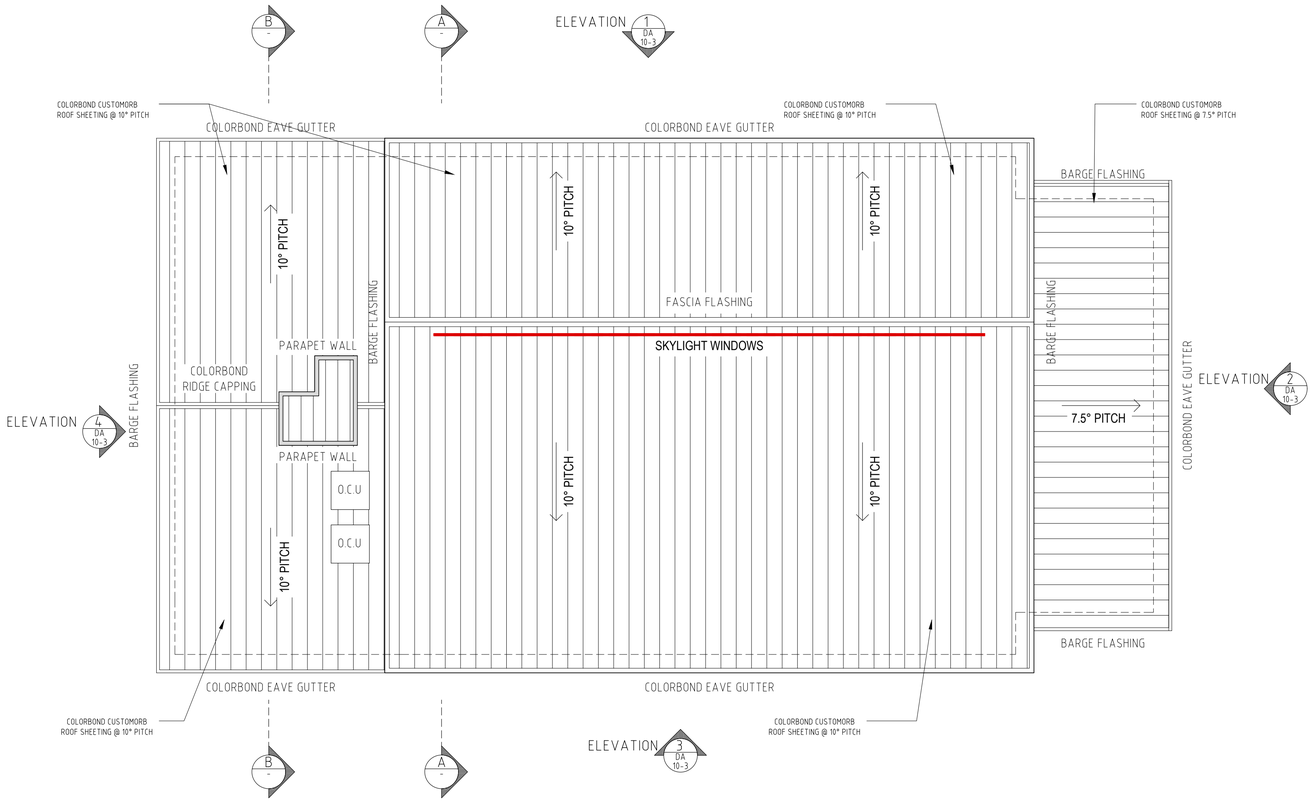
SHEET
GYMNASIUM BUILDING
FLOOR PLANS L00, L01

DRAWN	PH	SCALE	1:200 @ A1 1:400 @ A3
DESIGNED	NC	DRG No	20-371-DA10-1
CHECKED	NC	REV	A

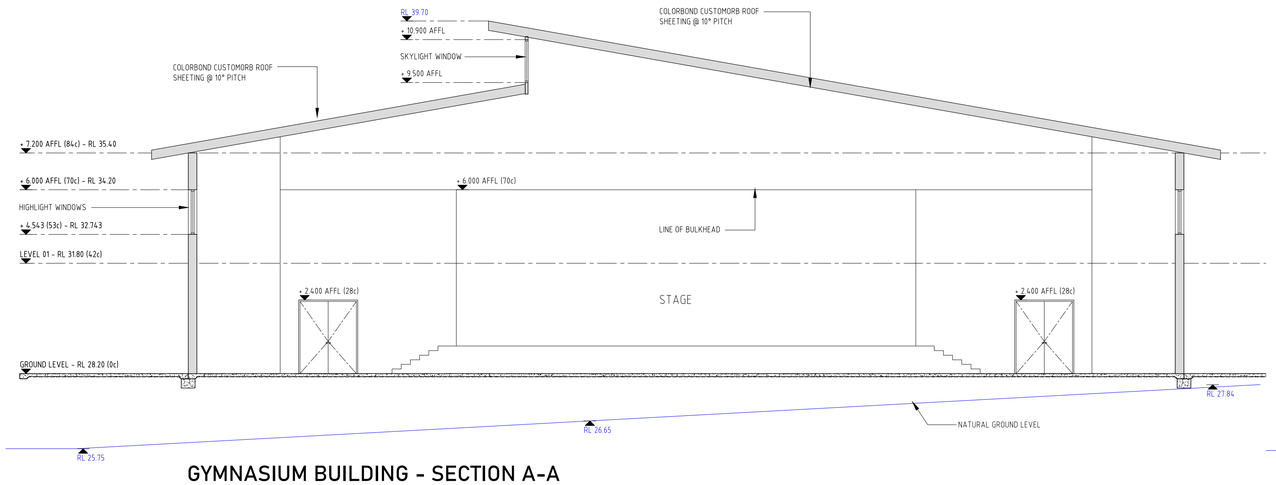
REV	DATE	CHKD	DESCRIPTION
A	28-06-2021	NS	COUNCIL DA ISSUE

20-371-DA10-1 GYM PLANS L00, L01.DWG 22.06.2021 4:00 PM

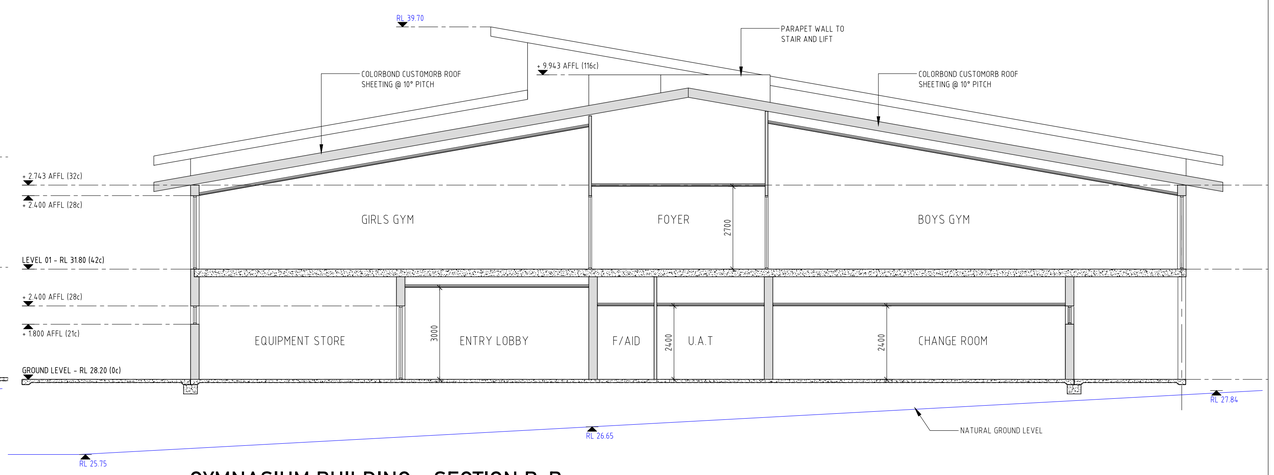
DEVELOPMENT ASSESSMENT PANEL
APPROVED
10-Dec-2021



GYMNASIUM BUILDING - ROOF PLAN
SCALE 1:200 @A1



GYMNASIUM BUILDING - SECTION A-A
SCALE 1:100 @A1



GYMNASIUM BUILDING - SECTION B-B
SCALE 1:100 @A1

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FORRESTDALE

PROPOSED BUILDING WORKS

NORTH

MAROCCHI engineering group
Suite 3, 158 Newcastle Street, Perth W.A. 6000
Tel. (08) 9328 5700

PROJECT
AUSTRALIAN ISLAMIC COLLEGE
LOT 15 (651) NICHOLSON ROAD
FORRESTDALE

SHEET
GYMNASIUM BUILDING
ROOF PLAN & SECTIONS A-A & B-B

DRAWN	PH	SCALE	1:100, 1:200 @ A1 1:200, 1:400 @ A3
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CHECKED	NC	REV	B

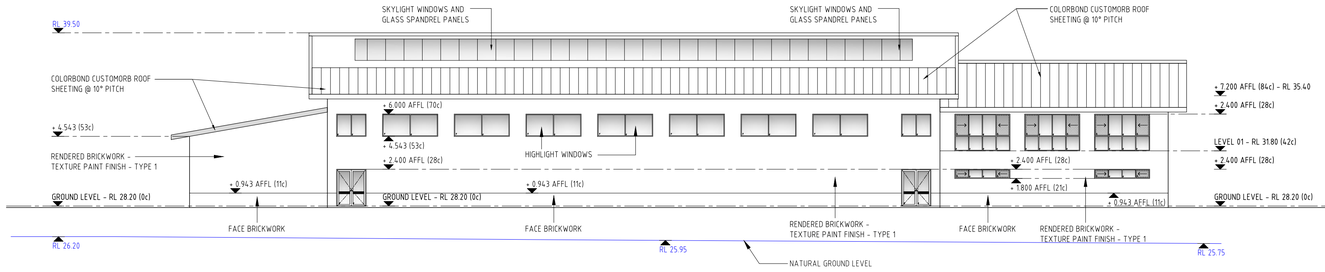
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A	28-06-2021	NS	COUNCIL DA ISSUE

20-371-DA10-2 GYM ROOF & SECTIONS.DWG 21.10.2021 3:34 PM

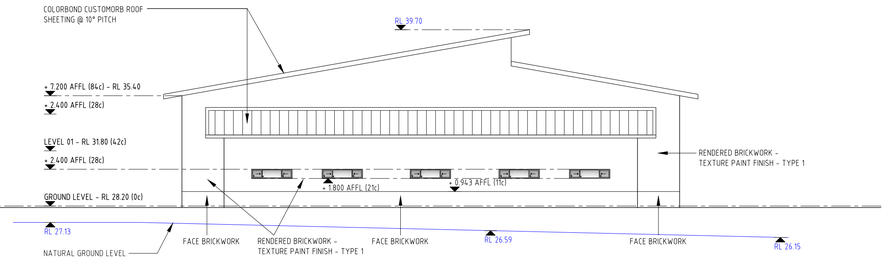
DEVELOPMENT ASSESSMENT PANEL

APPROVED

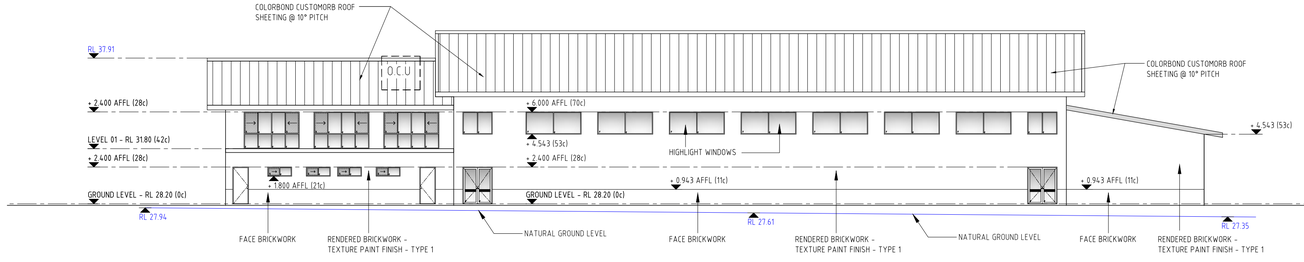
10-Dec-2021



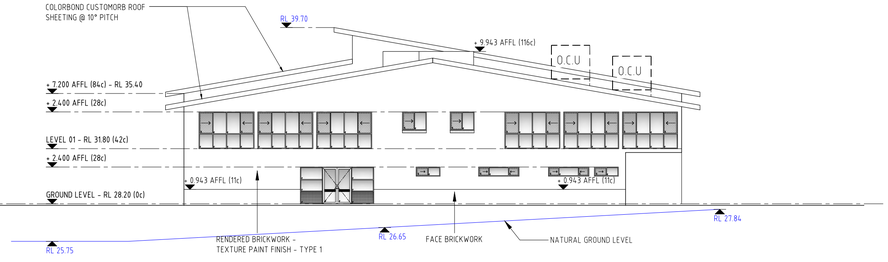
GYMNASIUM BUILDING
ELEVATION 1
SCALE 1:200 @A1



GYMNASIUM BUILDING
ELEVATION 2
SCALE 1:200 @A1



GYMNASIUM BUILDING
ELEVATION 3
SCALE 1:200 @A1



GYMNASIUM BUILDING
ELEVATION 4
SCALE 1:200 @A1

A I C

FORRESTDALE

PROPOSED BUILDING WORKS

MAROCCHI
engineering group
Suite 3, 158 Newcastle Street, Perth W.A. 6000
Tel. (08) 9328 5700

PROJECT
AUSTRALIAN ISLAMIC COLLEGE
LOT 15 (651) NICHOLSON ROAD
FORRESTDALE

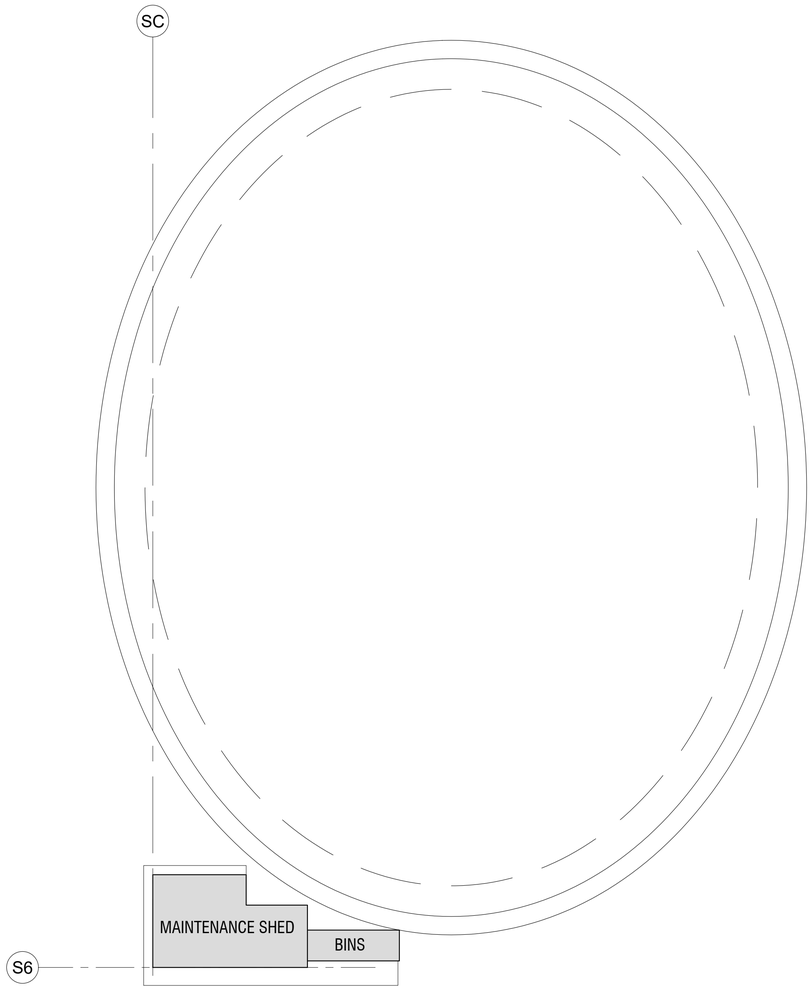
SHEET
GYMNASIUM BUILDING
ELEVATIONS

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DESIGNED	NC	DRG No	20-371-DA10-3
CHECKED	NC	REV	B

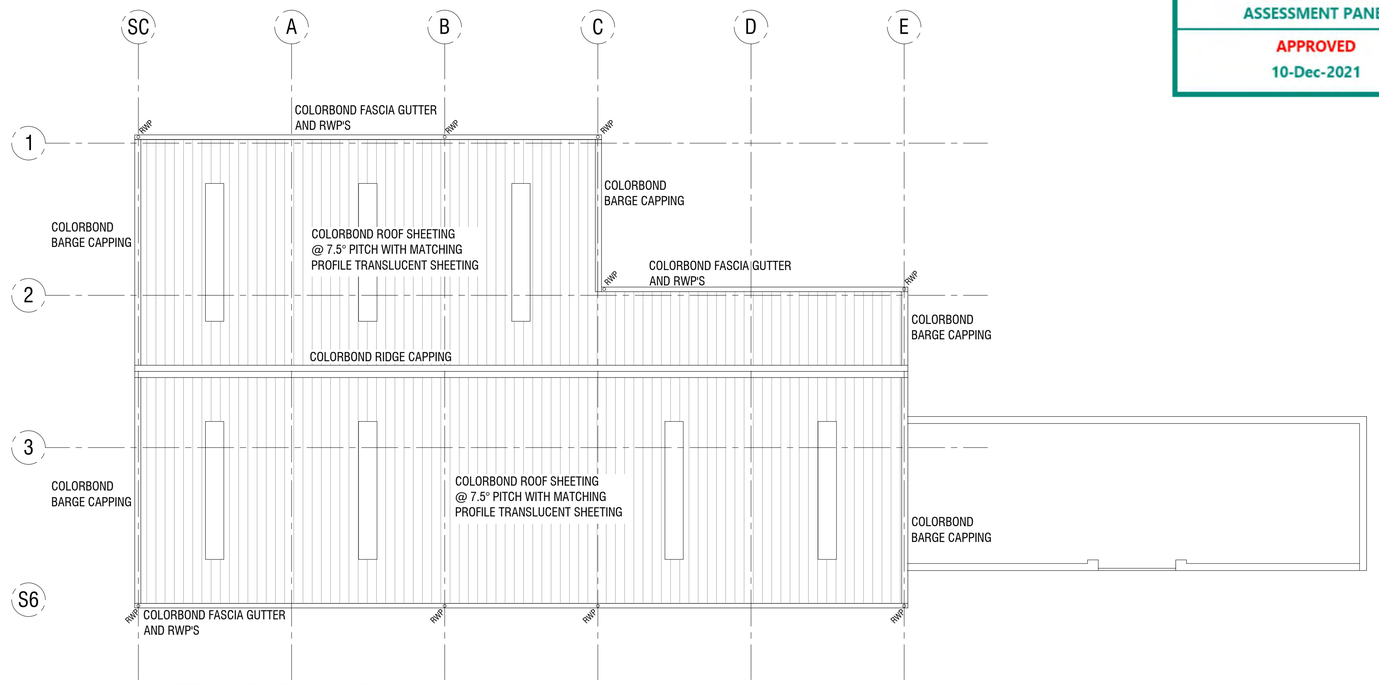
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A	28-06-2021	NS	COUNCIL DA ISSUE

20-371-DA10-3 GYM ELEVATIONS.DWG 21.10.2021 3:35 PM

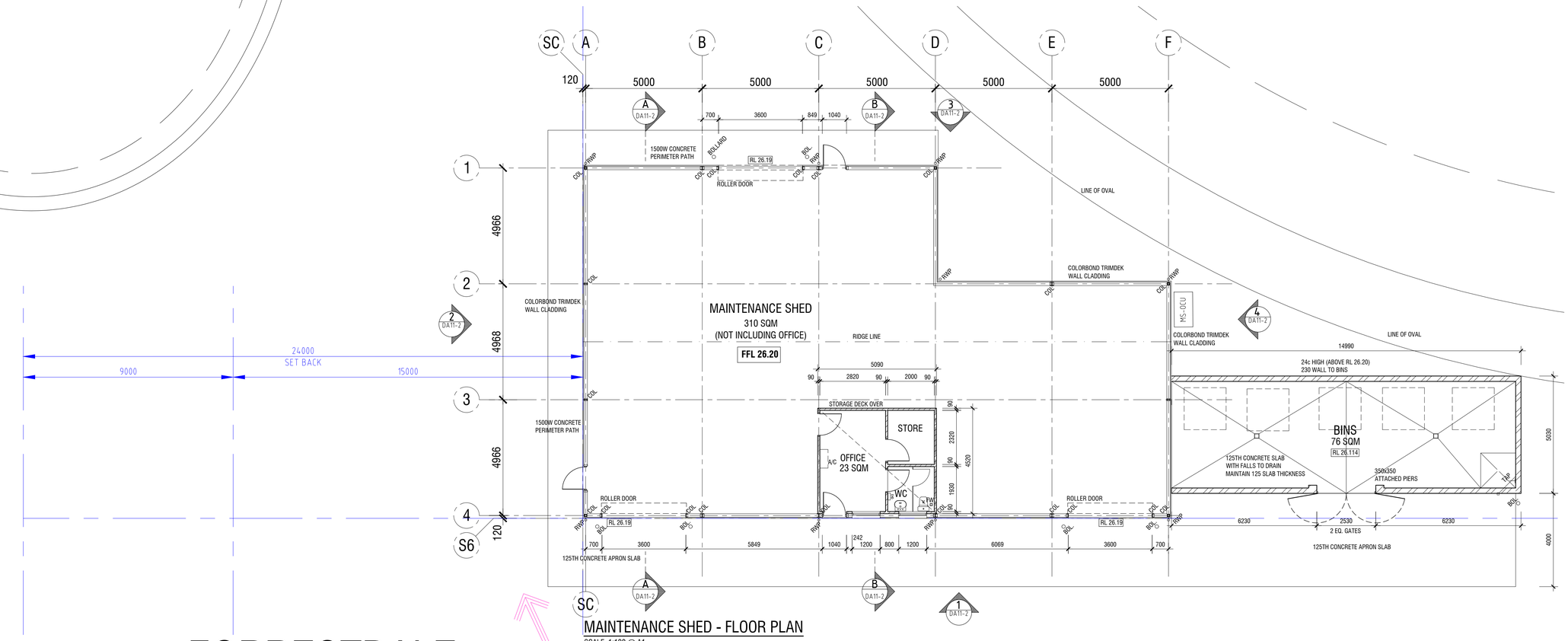
DEVELOPMENT ASSESSMENT PANEL
APPROVED
10-Dec-2021



LOCATION PLAN
SCALE 1:500 @ A1



MAINTENANCE SHED - ROOF PLAN
SCALE 1:100 @ A1



MAINTENANCE SHED - FLOOR PLAN
SCALE 1:100 @ A1

A I C

FORRESTDALE

PROPOSED BUILDING WORKS

MAROCCHI engineering group
Suite 3, 158 Newcastle Street, Perth W.A. 6000
Tel. (08) 9328 5700

PROJECT
AUSTRALIAN ISLAMIC COLLEGE
LOT 15 (651) NICHOLSON ROAD
FORRESTDALE

SHEET
MAINTENANCE SHED BUILDING
FLOOR PLAN AND ROOF PLAN

DRAWN	PH	SCALE	1:100 @ A1 1:200 @ A3
DESIGNED	NC	DRG No	20-371-DA11-1
CHECKED	NC	REV	D

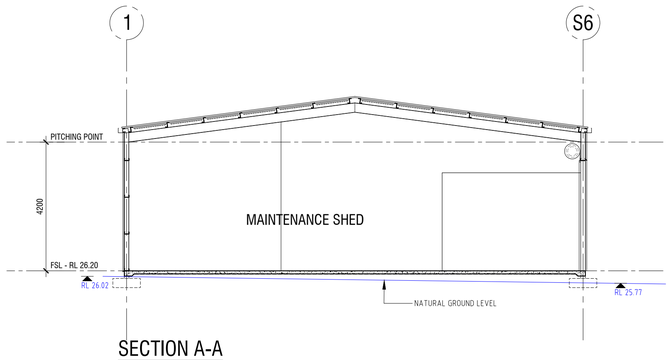
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B	22-10-2021	NS	COUNCIL DA ISSUE
A	28-06-2021	NS	COUNCIL DA ISSUE

20-371-DA11-1 MAINTENANCE SHED.DWG 03.11.2021 12:52 PM

DEVELOPMENT ASSESSMENT PANEL

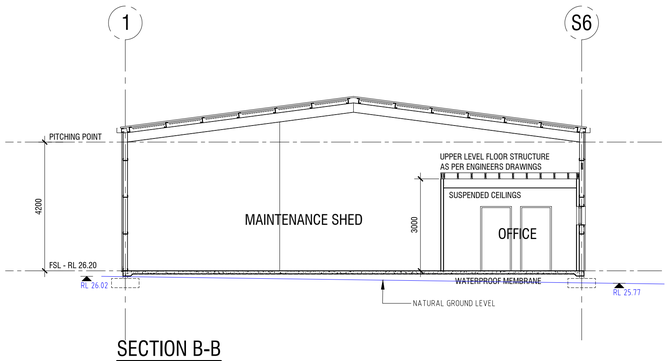
APPROVED

10-Dec-2021



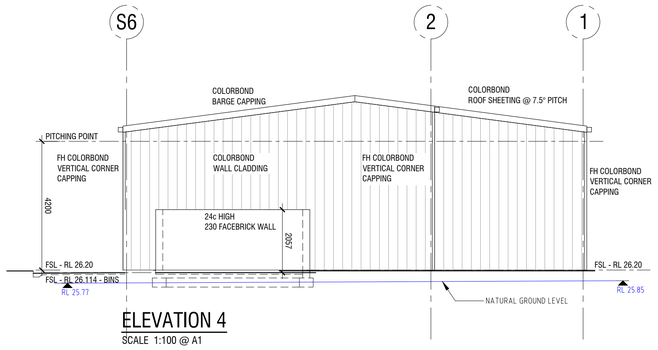
SECTION A-A

SCALE 1:100 @ A1



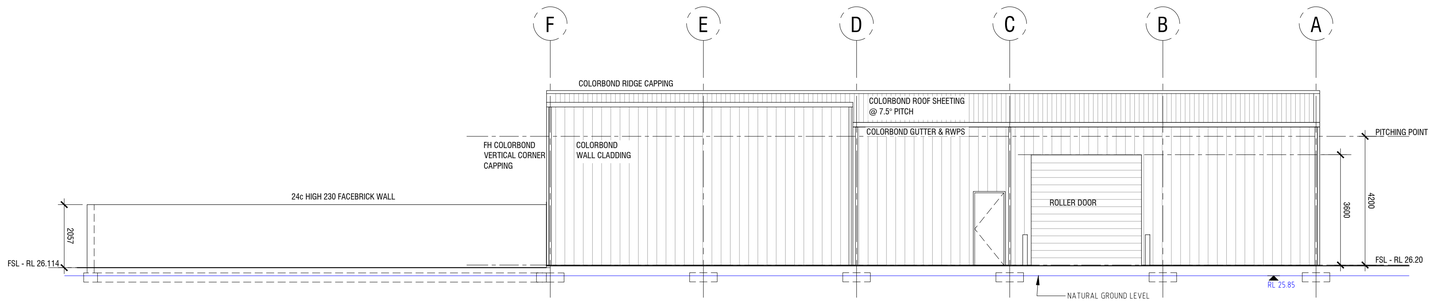
SECTION B-B

SCALE 1:100 @ A1



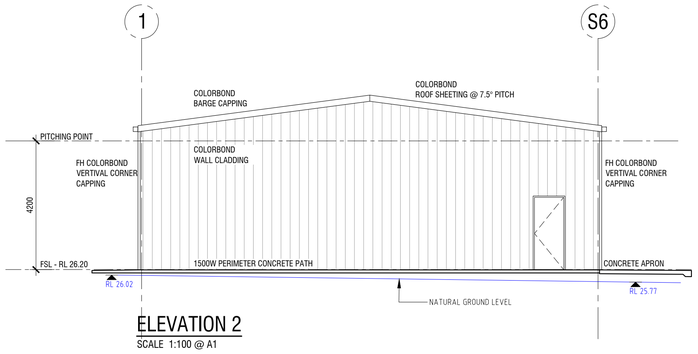
ELEVATION 4

SCALE 1:100 @ A1



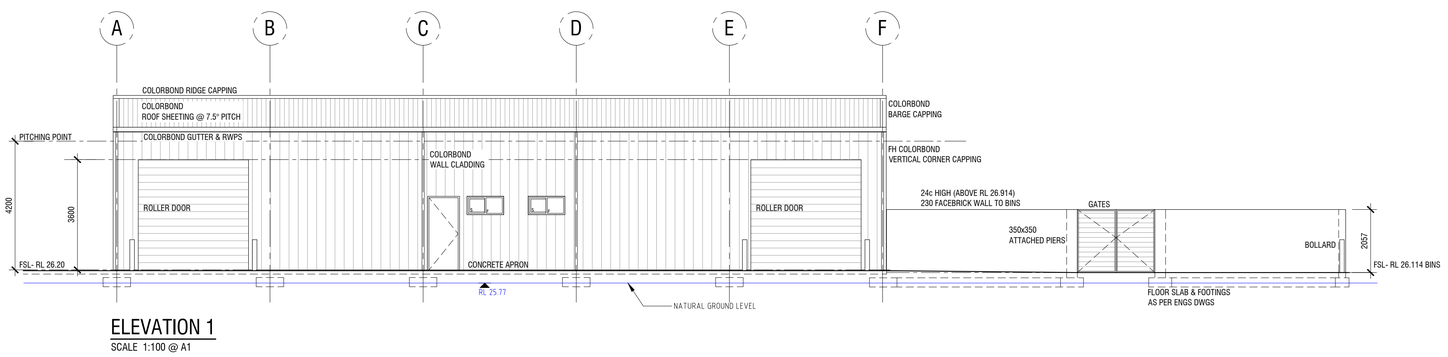
ELEVATION 3

SCALE 1:100 @ A1



ELEVATION 2

SCALE 1:100 @ A1



ELEVATION 1

SCALE 1:100 @ A1

A I C

FORRESTDALE

PROPOSED BUILDING WORKS

MAROCCHI
engineering group
Suite 3, 158 Newcastle Street, Perth W.A. 6000
Tel: (08) 9328 5700

PROJECT

AUSTRALIAN ISLAMIC COLLEGE
LOT 15 (651) NICHOLSON ROAD
FORRESTDALE

SHEET

MAINTENANCE SHED BUILDING
ELEVATIONS & SECTION

DRAWN	PH	SCALE	1:100 @ A1 1:200 @ A3
DESIGNED	NC	DRG No	20-371-DA11-2
CHECKED	NC	REV	D

REV	DATE	CHKD	DESCRIPTION
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B	22-10-2021	NS	COUNCIL DA ISSUE

20-371-DA11-1 MAINTENANCE SHED.DWG 03.11.2021 12:52 PM

DEVELOPMENT
ASSESSMENT PANEL
APPROVED
10-Dec-2021

OXLEY ROAD

NICHOLSON ROAD

FIRE PUMP BUILDING

TRANSFORMER COMPOUND

NORTH

REV	DATE	CHKD	DESCRIPTION
D	03-11-2021	NS	COUNCIL DA ISSUE
B	15-10-2021	NS	COUNCIL DA ISSUE
A	28-06-2021	NS	COUNCIL DA ISSUE

MAROCCHI
engineering group
Suite 3, 158 Newcastle Street, Perth W.A. 6000
Tel. (08) 9328 5700

PROJECT

AUSTRALIAN ISLAMIC COLLEGE
LOT 15 (651) NICHOLSON ROAD
FORRESRDALE

SHEET

BOUNARY FENCING
SITE PLAN

DRAWN	PH	SCALE 1:500 @ A1 1:1000 @ A3	
DESIGNED	NC	DRG No 20-371-DA12-1	REV D
CHECKED	NC		

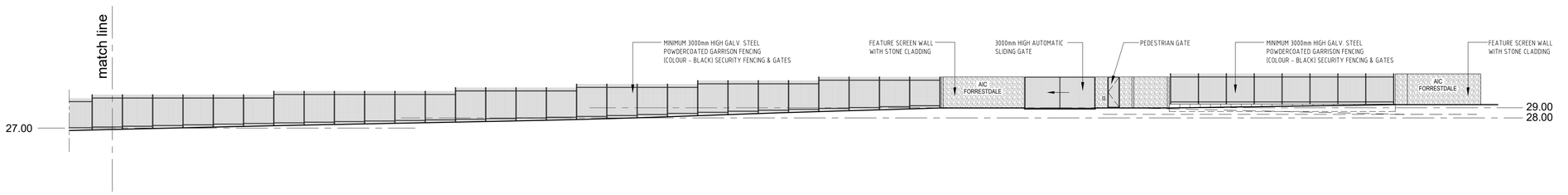
20-371-DA12-1 BOUNDARY FENCING.DWG 03.11.2021 12:57 PM

DEVELOPMENT ASSESSMENT PANEL
APPROVED
10-Dec-2021



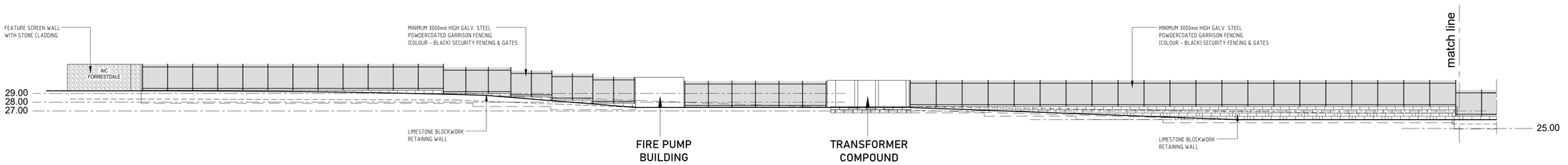
PART ELEVATION - FENCE 1 (OXLEY ROAD)

SCALE 1:250 @A1



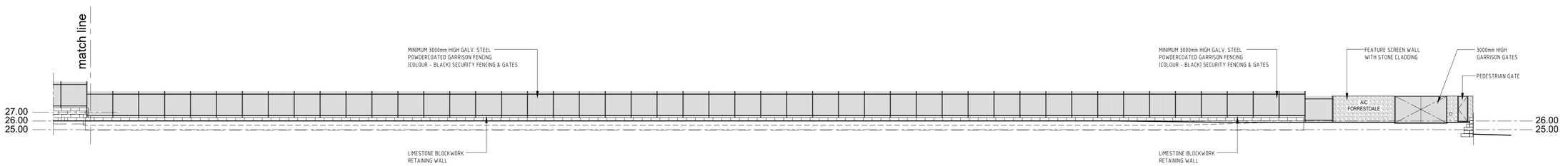
PART ELEVATION - FENCE 1 (OXLEY ROAD)

SCALE 1:250 @A1



PART ELEVATION - FENCE 2 (NICHOLSON ROAD)

SCALE 1:250 @A1



PART ELEVATION - FENCE 2 (NICHOLSON ROAD)

SCALE 1:250 @A1

A I C FORRESTDALE

PROPOSED BUILDING WORKS

MAROCCHI engineering group
Suite 3, 158 Newcastle Street, Perth W.A. 6000
Tel. (08) 9328 5700

PROJECT
AUSTRALIAN ISLAMIC COLLEGE
LOT 15 (651) NICHOLSON ROAD
FORRESTDALE

SHEET
BOUNDARY FENCING
ELEVATIONS - PART 1 OF 2

DRAWN	PH	SCALE	1:250 @ A1	1:500 @ A3
DESIGNED	NC	DRG No	20-371-DA12-2	REV D
CHECKED	NC			

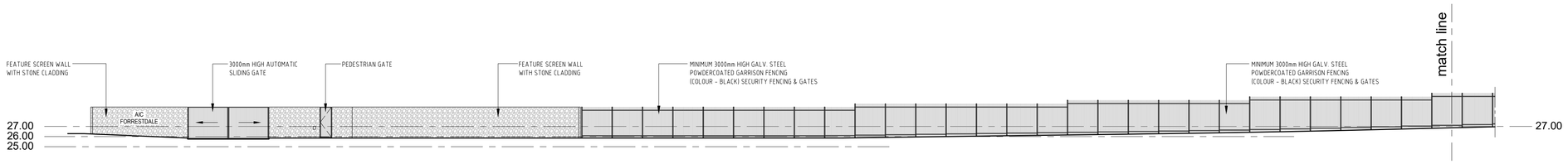
REV	DATE	CHKD	DESCRIPTION
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B	22-10-2021	NS	COUNCIL DA ISSUE

20-371-DA12-1 BOUNDARY FENCING.DWG 03.11.2021 12:56 PM

DEVELOPMENT ASSESSMENT PANEL

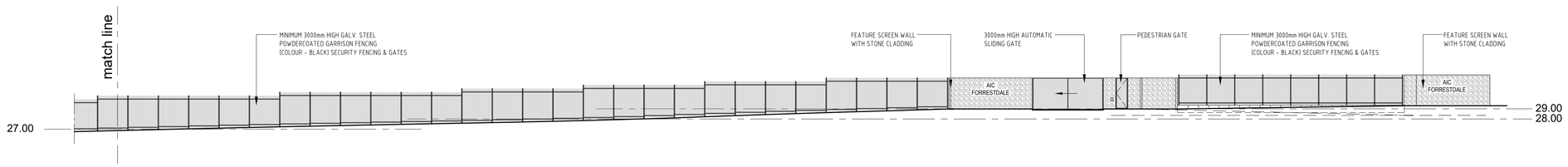
APPROVED

10-Dec-2021



PART ELEVATION - FENCE 3 (SOUTH BOUNDARY)

SCALE 1:250 @A1



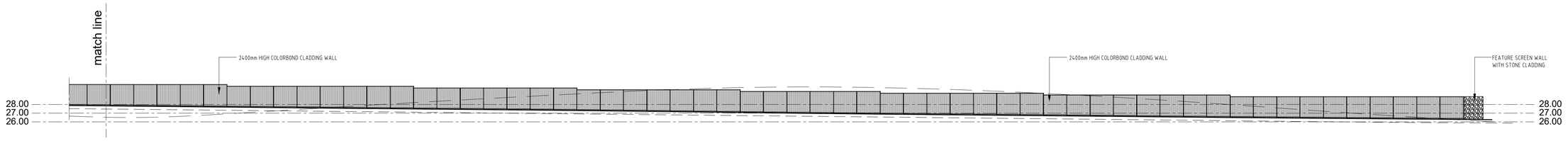
PART ELEVATION - FENCE 3 (SOUTH BOUNDARY)

SCALE 1:250 @A1



PART ELEVATION - FENCE 4 (EAST BOUNDARY)

SCALE 1:250 @A1



PART ELEVATION - FENCE 4 (EASTBOUNDARY)

SCALE 1:250 @A1

A I C FORRESTDALE

PROPOSED BUILDING WORKS

MAROCCHI engineering group
Suite 3, 158 Newcastle Street, Perth W.A. 6000
Tel. (08) 9328 5700

PROJECT
AUSTRALIAN ISLAMIC COLLEGE
LOT 15 (651) NICHOLSON ROAD
FORRESTDALE

SHEET
BOUNDARY FENCING
ELEVATIONS - PART 2 OF 2

DRAWN	PH	SCALE 1:250 @ A1	1:500 @ A3
DESIGNED	NC	DRG No 20-371-DA12-3	REV B
CHECKED	NC		

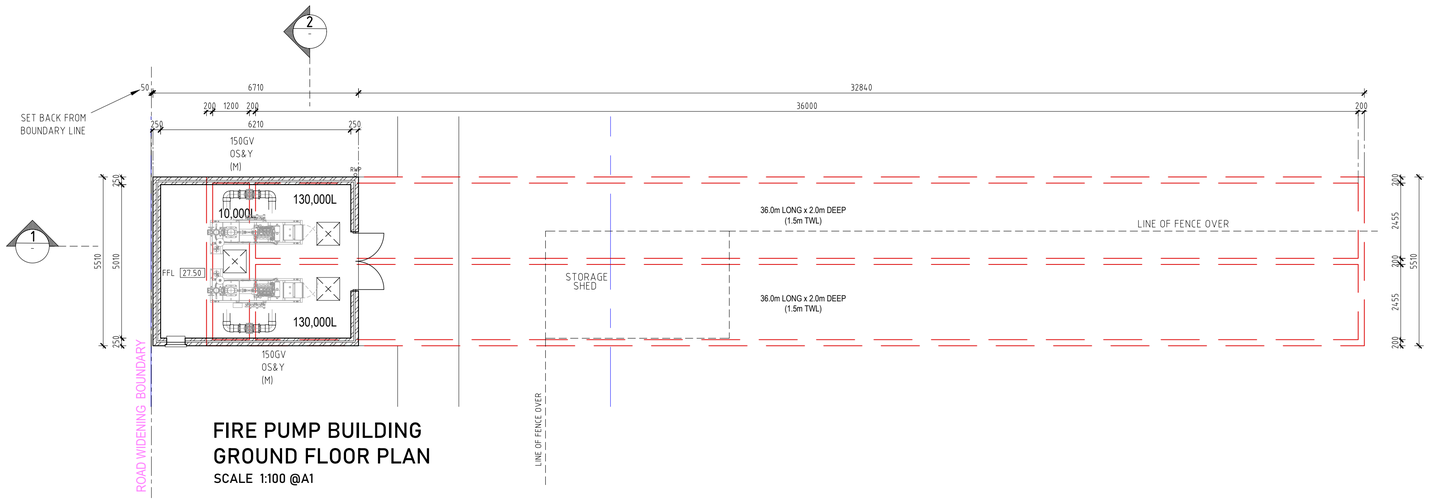
REV	DATE	CHKD	DESCRIPTION
B	15-10-2021	NS	COUNCIL DA ISSUE

20-371-DA12-1 BOUNDARY FENCING.DWG 03.11.2021 12:56 PM

DEVELOPMENT ASSESSMENT PANEL

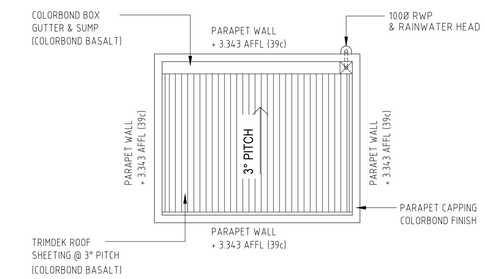
APPROVED

10-Dec-2021



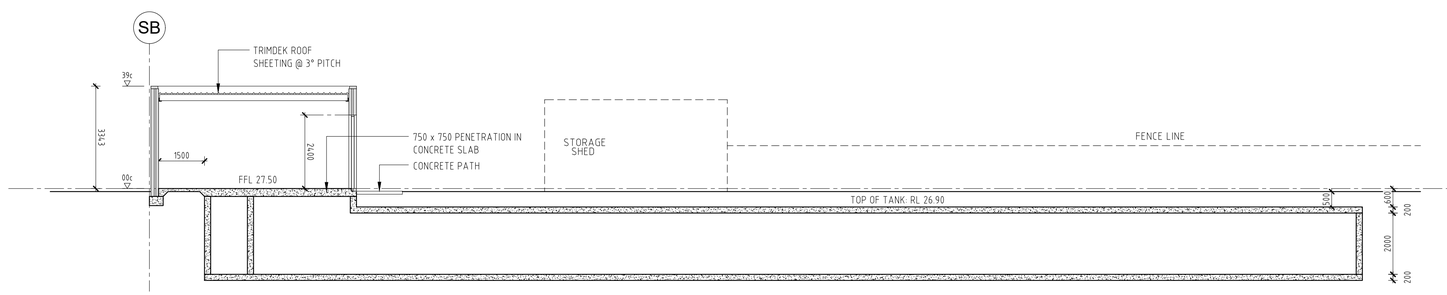
FIRE PUMP BUILDING GROUND FLOOR PLAN

SCALE 1:100 @A1



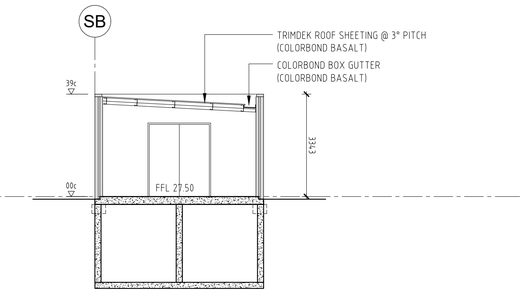
FIRE PUMP BUILDING ROOF PLAN

SCALE 1:100 @A1



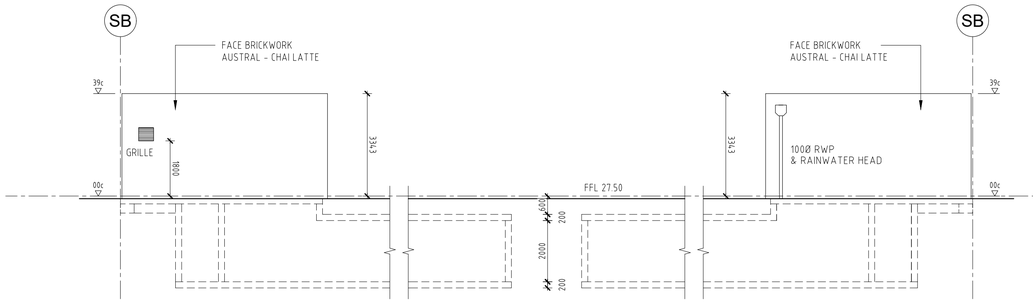
SECTION 1

SCALE 1:100



SECTION 2

SCALE 1:100

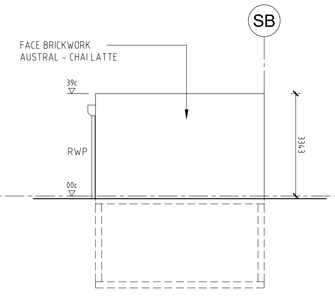


SOUTH ELEVATION

SCALE 1:100

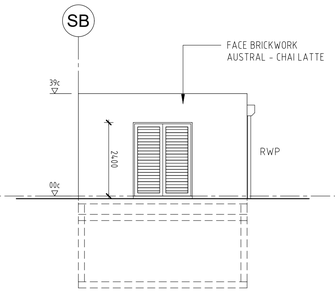
NORTH ELEVATION

SCALE 1:100



WEST ELEVATION

SCALE 1:100



EAST ELEVATION

SCALE 1:100

A I C

FORRESTDALE

PROPOSED BUILDING WORKS

MAROCCHI engineering group
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Tel. (08) 9328 5700

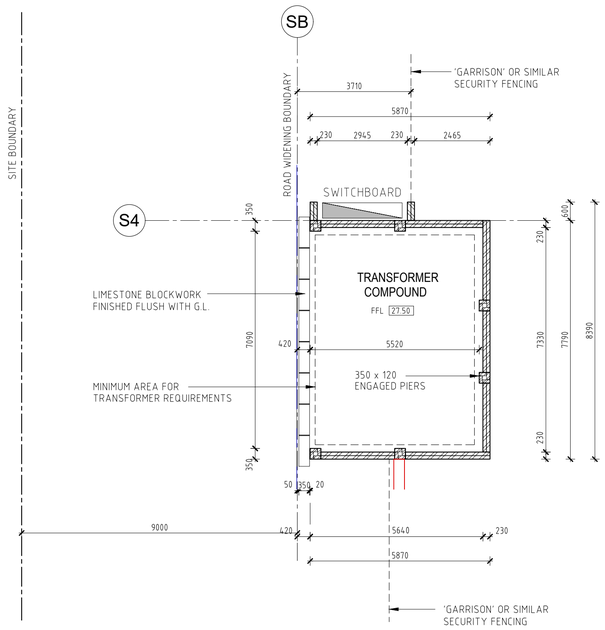
PROJECT
AUSTRALIAN ISLAMIC COLLEGE
LOT 15 (651) NICHOLSON ROAD
FORRESTDALE

SHEET
FIRE PUMP & TANKS
PLANS, ELEVATIONS & SECTIONS

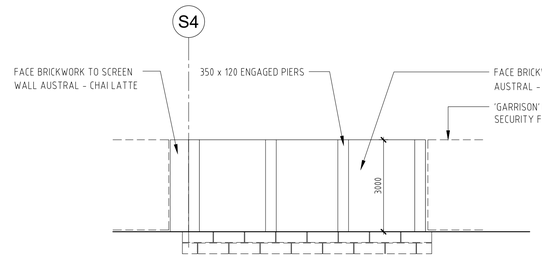
DRAWN	PH	SCALE	1:100 @ A1 1:200 @ A3
DESIGNED	NC	DRG No	20-371-DA13-1
CHECKED	NC	REV	B

REV	DATE	CHKD	DESCRIPTION
B	22-10-2021	NS	COUNCIL DA ISSUE

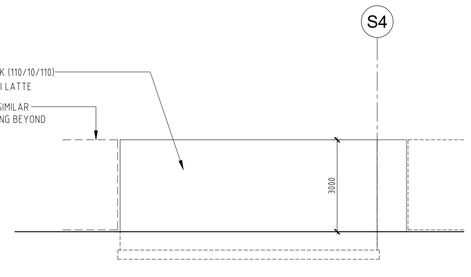
20-371-DA13-1 FIRE PUMP & TANK.DWG 21.10.2021 3:38 PM



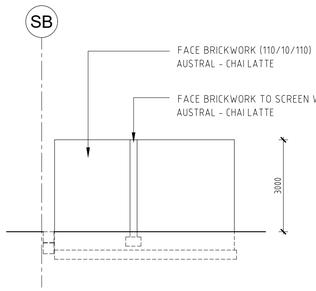
TRANSFORMER COMPOUND FLOOR PLAN
SCALE 1:100



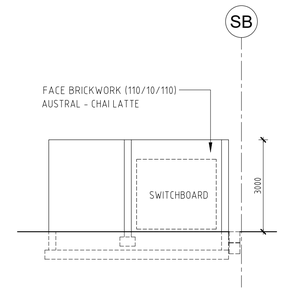
WEST ELEVATION
SCALE 1:100



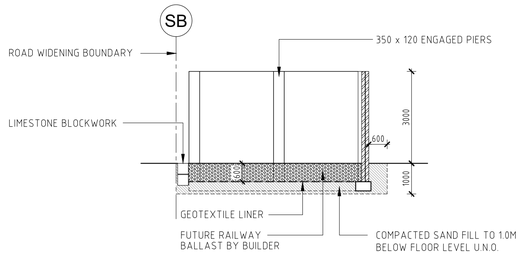
EAST ELEVATION
SCALE 1:100



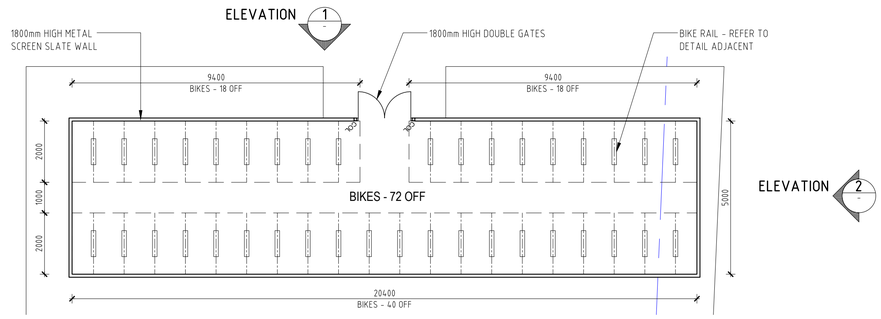
SOUTH ELEVATION
SCALE 1:100



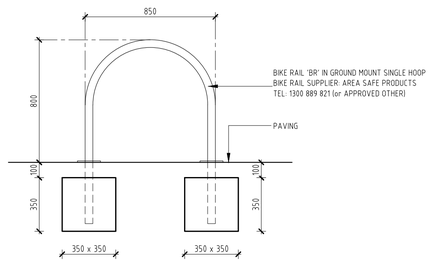
NORTH ELEVATION
SCALE 1:100



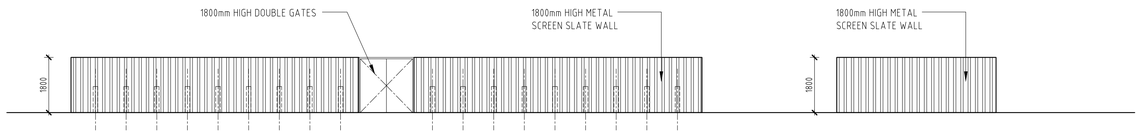
TYPICAL SECTION
SCALE 1:100



BIKES - PLAN
SCALE 1:100 @A1

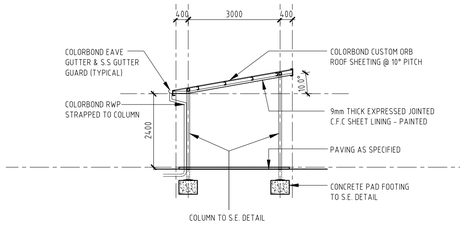


TYPICAL BIKE RAIL - SECTION DETAIL
SCALE 1:20 @A1

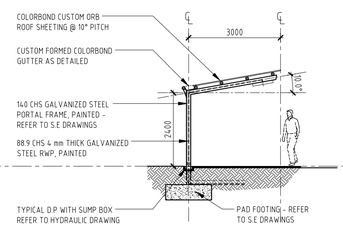


BIKES - ELEVATION 1
SCALE 1:100 @A1

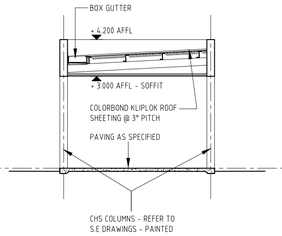
BIKES - ELEVATION 2
SCALE 1:100 @A1



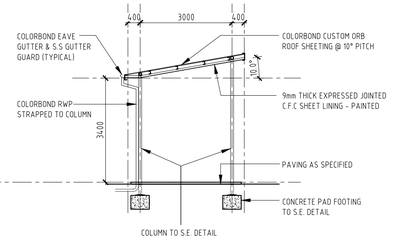
COVERED WALKWAY TYPICAL SECTION - TYPE A
SCALE 1:100



COVERED WALKWAY TYPICAL SECTION - TYPE B
SCALE 1:100



COVERED WALKWAY TYPICAL SECTION - TYPE C
SCALE 1:100



COVERED WALKWAY TYPICAL SECTION - TYPE D
SCALE 1:100

DEVELOPMENT ASSESSMENT PANEL
APPROVED
10-Dec-2021

A I C

FORRESTDALE

PROPOSED BUILDING WORKS



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Tel. (08) 9328 5700

PROJECT
AUSTRALIAN ISLAMIC COLLEGE
LOT 15 (651) NICHOLSON ROAD
FORRESTDALE

SHEET
TRANSFORMER, BIKES & COVERED WALKWAY PLAN, ELEVATIONS & SECTION

DRAWN	PH	SCALE	1:100 @ A1 1:200 @ A3
DESIGNED	NC	DRG No	20-371-DA13-2
CHECKED	NC	REV	B

REV	DATE	CHKD	DESCRIPTION
B	22-10-2021	NS	COUNCIL DA ISSUE

20-371-DA13-2 TRANSFORMER, BIKES & WALKWAY.DWG 21.10.2021 3:37 PM