



Stormwater Management Report

Upgrades to Northmead Public School

Project Reference: 132567

January 2025

Prepared For: School Infrastructure NSW

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Meinhardt

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3. Introduction

This Stormwater Management Report has been prepared to accompany a Review of Environmental Factors (REF) for the Department of Education (DoE) for upgrades to Northmead Public School (the activity) under Part 5 of the Environmental Planning and Assessment Act 1979 (EP&A Act) and State Environmental Planning Policy (Transport and Infrastructure) 2021 (SEPP TI).

This document has been prepared in accordance with the Guidelines for Division 5.1 assessments (the Guidelines) by the Department of Planning, Housing and Infrastructure.

This report examines and takes into account the relevant environmental factors in the Guidelines and Environmental Planning and Assessment Regulations 2021 under Section 170, Section 171 and Section 171A of the EP&A Regulation.

3.1 Proposed Activity Description

The proposed activity for upgrades to Northmead Public School includes:

- One (1) new single storey classroom building comprising of four (4) general learning spaces (GLS), two (2) special program spaces, a singular learning commons space and a singular multi-purpose space.
- Minor internal alterations to an existing Admin Building (known as Building A); and
- Removal of existing portable classroom buildings containing six (6) classrooms.

3.2 Activity Site

The project site is located at 52A Moxhams Road, Northmead and is legally described as:

- Lot 1 DP 366405;
- Lot 1 DP 176742;
- Lot 1 DP 20061; and
- Lot 1 DP 209810.

Northmead Public School is located on the southern side of Moxhams Road and on the western side of Kleins Road.

Figure 1 provides an aerial photograph of the site.



Figure 1 Aerial photograph

4. REF Reporting Requirements

This report has been prepared in accordance with environmental mitigation measures and technical stormwater management plan to meet the City of Parramatta Council requirements for the proposed activity. The REF deliverable requirements are presented in Table 1.

Item	REF Requirement	Relevant Section of Report
1	<i>Stormwater Management Plan</i>	<i>Section 5.1 and 6.0 consider design solutions to mitigate water quality by treatment devices.</i>

Table 1. Relevant REF Requirements

5. Flood assessment

5.1 Existing Scenario

The subject site is located within the Parramatta Council Local Government Area (LGA). Available Flood maps indicate that Northmead Public School is partially affected by overland flows from Thomas Street and Kleins Road and during the PMF event, overland flows run across the school site towards the western boundary, then flow through a few properties west of the site, and eventually discharge onto Allambie Avenue.

As specified Flood Assessment and Management report with Rev.02 by JHA, the existing site is affected by shallow overland sheet flow of less than 0.15m depth with the majority of flood depths onsite in PMF event and the site is not affected by overland flow during 1% AEP events (Figure 3). Therefore, FFLs set at least 500mm above ground level are deemed sufficient to protect the site from the PMF level in the Existing Scenario (Figure 2).

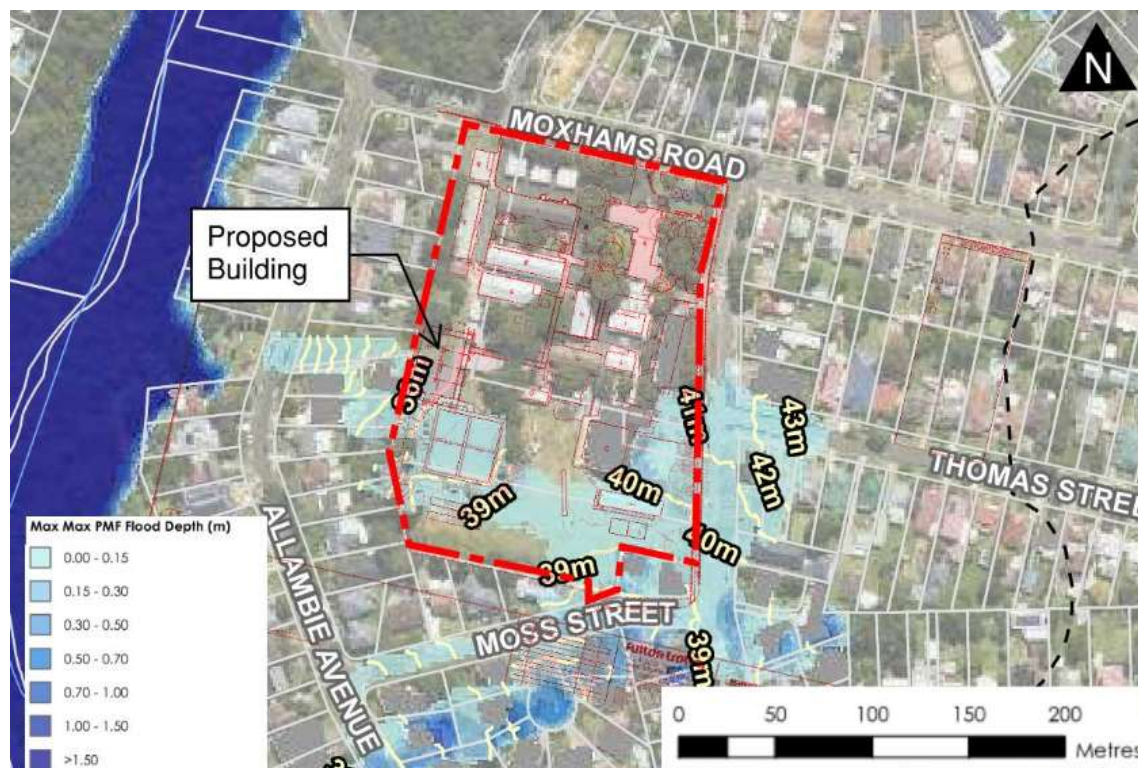


Figure 2. Peak flood levels and depths at the site in the PMF event, pre-development of school.

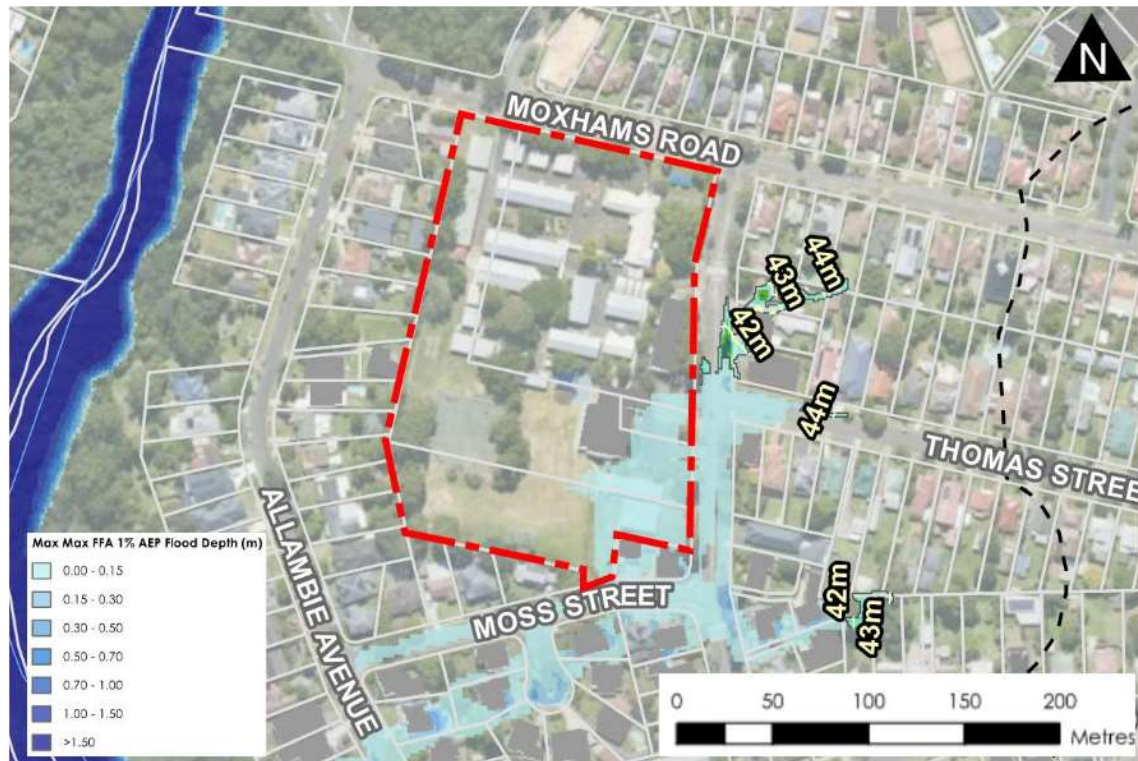


Figure 3. Peak flood levels and depths at the site in the 1% AEP event, pre-development of school.

5.2 Post-Development Scenario

As in the PMF depths within the school site are generally less than 0.15m, while the pooling flood waters around the perimeter of the proposed building area of a similar depth, ranging generally between 0~0.15m.

According to the flood report by JHA, there is a possibility that surface runoff and overland flow coming across the school site from Kleins Road can be trapped along the existing fence. The proposed building slightly encroaches on the internal PMF flow path as shown in Figure 4. It is notable that the building's floor level is set at 37.55m AHD, which is 0.55m above the adjacent PMF level of 37.00m AHD.

In order to mitigate flood impact at the site, the civil plan shows a minimum of 500mm masonry walls at the rear of the proposed building and a minimum of 500mm high open space with 0.1m mesh or any approved product by SINSW or the builder to divert the water flow quickly and improve overland flow path with less blockage.

To mitigate and improve site conditions, we suggest adequate excavation and earthwork along the boundary to mitigate flood impact and drain out quickly during PMF events (Figure 4).

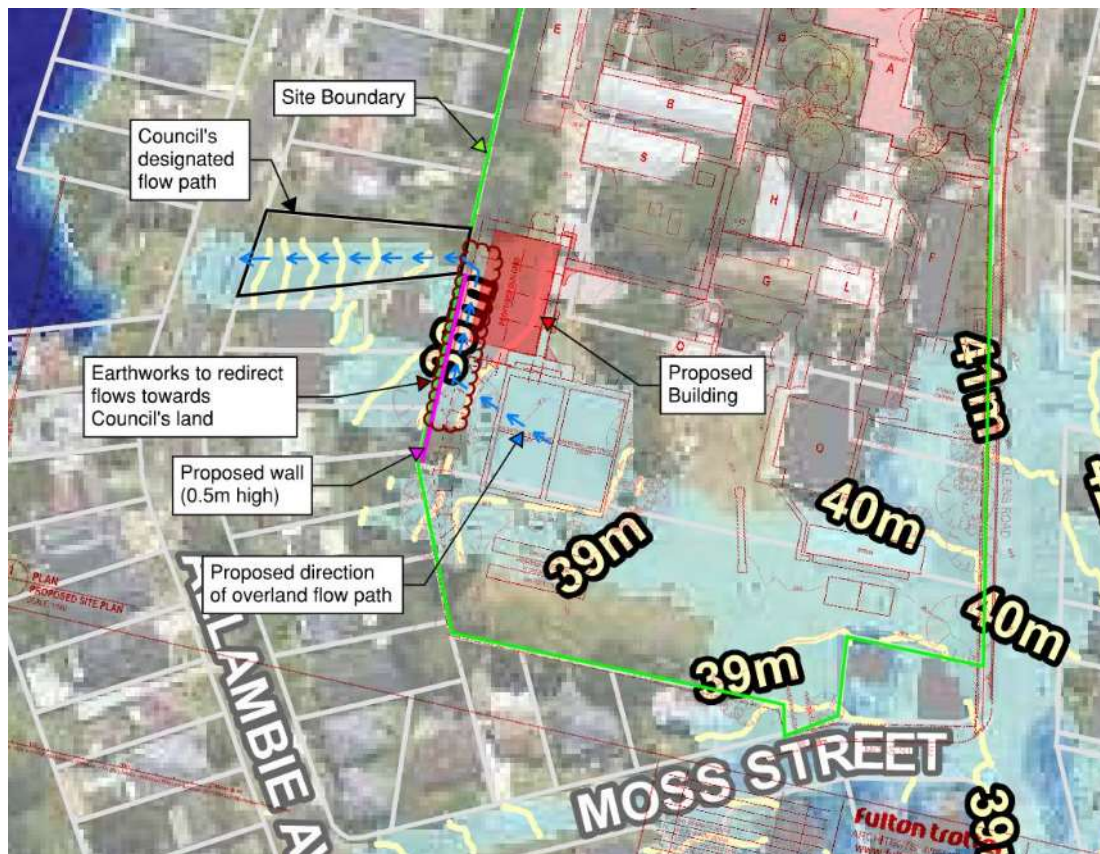


Figure 4. Peak flood levels and depths at the site in the PMF event, post-development of school.

6.1 Stormwater Drainage Works

- A pit and pipe system within the site area to convey minor flows (in accordance with the Major/Minor stormwater strategy approach defined in Australian Rainfall and Runoff). Roof drainage system has been designed, and documented by the Hydraulic Engineer, and is directly discharged to OSD tank near the proposed building after filter treatment on Moxhams Road.
- A detention tank by Atlan is provided (with water quality treatment cartridges contained within the tank) in order to limit post-development flows to less than PSD flows from the stormwater management policy.
- Overland flow paths and trench drains are provided to cater for upstream catchments to bypass the development site, and to convey major storm flows within the development area along the existing swales at the rear of the proposed building and discharge the surface runoff adjacent to the boundary via the existing headwall and on the surface at the same time.

[illegible]

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6.2 On Site Detention

Council requires the provision of an on-site detention system to ensure that new developments do not increase peak stormwater flows in any downstream area during major storms up to and including 100-year ARI events.

The Upper Parramatta River Catchment Trust (UPRCT) "On-site Stormwater Detention Handbook-Fourth Edition" in Page 3-3 sets out the steps in determining the applicable permissible site discharge (PSD) to the proposed development and the size of the OSD tank to be required.

PSD & SSR – Building Catchment

- PSD:
 - Primary Orifice Outlet (SRD_L): 40 L/s/ha x 0.101 ha = 4.04 L/s
 - Secondary Orifice Outlet (SRD_U): 150 L/s/ha x 0.101 ha = 15.15 L/s
- SSR:
 - Primary Orifice Outlet (EDD): 300 m³/ha x 0.101 ha = 30.3 m³
 - Secondary Orifice Outlet (Total): 455 m³/ha x 0.101 ha = 45.96 m³

Storm event	PSD	SSR
Primary Orifice Outlet (SRD _L)	40 L/s/ha	300 m ³ /ha
Secondary Orifice Outlet (SRD _U)	150 L/s/ha	455 m ³ /ha

Table 2. PSD and SSR from On-site Stormwater Detention Handbook-Fourth Edition by UPRCT

Storm event	OSD Post-Development Flow (L/s)	OSD Bypass Flow(L/s)
1.5-year ARI	4.04	0
100-year ARI	19.19	0

Table 3. Peak Discharge Results in UPRCT Calculation Sheet.

The OSD requirement for the development was calculated using the UPRCT Calculation Sheet to determine the size of the proposed piped network and the respective OSD in order to satisfy major/minor system requirements in accordance with the UPRCT requirements and shown on Table 2.

These parameters were used in determining the PSD and SSR applicable to the proposed development. The calculation for the sizing of the OSD tank is attached in Appendix E.

The total catchment areas proposed to drain into the OSD is 0.101 hectare. The required OSD tank volume calculated using UPRCT calculation spreadsheet is 45.96 m³. All roof and covered walkway are proposed to drain into the OSD tank as per the catchment plan. Most of this runoff will drain into the

storm filter chamber first to undergo treatment (further discussed in Section 6). Water shall flow above the access hatch (RL 36.95m and 35.60mAHD) when it reaches the maximum volume of the storage.

OSD TANK	Diameter (mm)
Primary Orifice Outlet (SRD _L)	49
Secondary Orifice Outlet (SRD _U)	95

Table 3. Orifice Plate Diameter

Discharge is controlled via an orifice plate in OSD tank. These are installed at the outlet in order to satisfy post development conditions under council regulations.

The OSD tank plans and details are provided in Appendix D.

The design criterion for below ground pipe drainage has been adopted from UPRCT "On-site Stormwater Detention Handbook-Fourth Edition" and are listed as follows:

- Minor Extended Detention Storage 1.5-year ARI
- Major OSD systems (Total storage) 100-year ARI

6.3 Catchment Plan

The proposed catchment plan for the site is presented in Figure 6 and further detailed in Appendix C. The proposed site's catchment is comprised of roof and covered walkway drainage. Flows coming from the roof will be conveyed through downpipes which will all discharge into the proposed OSD tank storage.

The total catchment area across the proposed site is approximately 0.101 hectares comprised of roof and covered walkway zone. 100% of the total site area is proposed to drain into the proposed OSD tank. This is comprised of two roof catchment areas (Grey and blue hatches).

As per UPRCT "On-site Stormwater Detention Handbook-Fourth Edition" Clause 5.1, no more than 30% of the total area shall bypass the OSD tank. This control yields a maximum bypass of 0.0303 hectare which is 30% of the total site area. As shown in the catchment plan, there is no bypass zone for the proposed development area and simply diverts the water flow from the upstream catchment area around the proposed building.

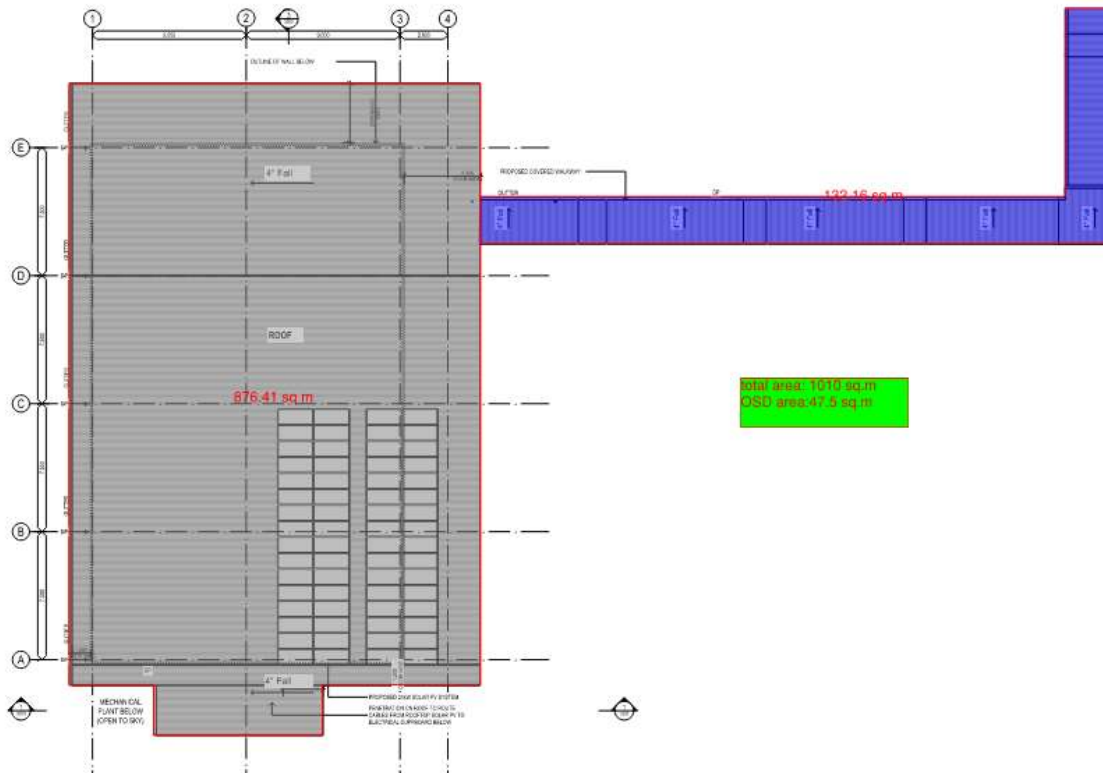


Figure 6. Site Catchment Plan

7. Stormwater Quality Strategy

To meet UPRCT requirements for stormwater management, the water quality strategy will need to include treatment of the stormwater prior to discharge to the nominated point of connection, reducing water borne pollutants as per all relevant guidelines.

Treating and reducing stormwater has multiple environmental benefits including improving urban amenity, reducing pollutant loadings downstream in receiving waters, retarding peak stormwater flow rates and reducing irrigation demands from potable water supply.

All roof catchments are required to discharge to the point of connection via On-site detention before the treatment chamber.

7.1 Water Quality Treatment Train

Modelling of the pollutant loads for the proposed development has been carried out using MUSIC. Diagrammatic illustrations of the model setup are presented in Figure 7 below.

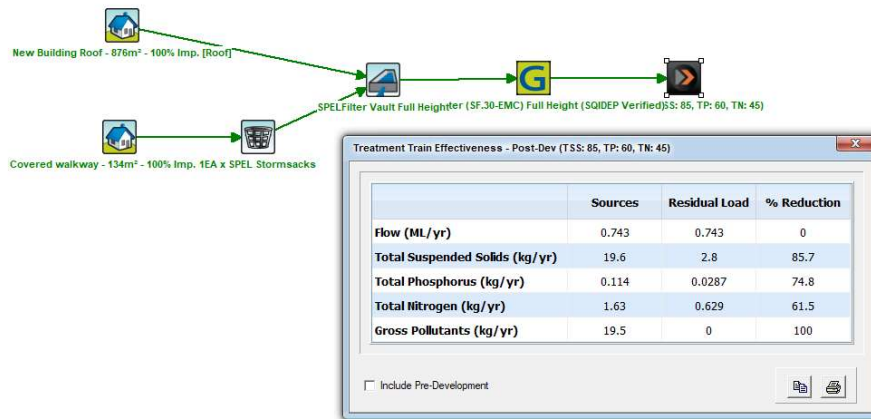


Figure 7. Music Modelling Treatment Train (OSD).

The model has been set up to inclusively incorporate all relevant catchments of the development to represent realistic site conditions for pollutant generation and treatment.

7.2 Stormwater Quality Treatment Devices

The stormwater management requirements for the development are dependent on the adequate treatment measures to mitigate and exceed stormwater borne pollutant reduction targets as per the relevant guidelines. The treatment systems have been nominated in the table below (or approved equivalents):

Treatment System	Capacity/Area	Quantity
Atlanfilter (SF 30 EMC-M, 850mm tall)	0.006cu.m./s high flow by-pass	3
Atlan StormSack	0.011cu.m./s high flow by-pass	1

Table 4. WSUD Treatment System

7.3 Treatment Device Specifications

The Atlanfilter shown in Figure 9 below is a proprietary treatment device that acts as a filter removing pollutants. This system is generally used to filter storm water from various pollutants prior to entering waterways. 3EA for OSD which is 850mm in height will be installed in the OSD tank. Figure 9 shows a diagram of how an Atlanfilter works.

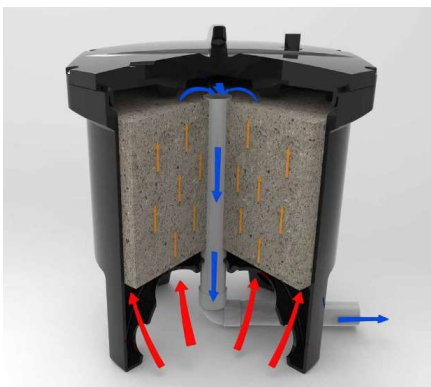


Figure 9. Atlanfilter by Atlan

The stormsack is installed inside inlet pits that act as Gross Pollutant Traps. This 200-micron filter system shown in Figure 10 below is generally used to remove trash, debris and other pollutants from runoff prior to entering waterways. 1 Stormsack will be installed inside the drainage pit adjacent to the proposed covered walkway to the southeast.



Figure 10. Stormsack by Atlan

7.4 MUSIC Modelling Results

The results from the MUSIC model validate that the proposed treatment measures reduce Total Suspend Solids by more than 85% and nutrients, Phosphorus by more than 60%, and Nitrogen by more than 45% for the proposed development. The results are summarised in the figure below.

Target Guideline	Water-Borne Pollutant	Reduction Target	Result	Target Met
WSUD Best Practice Guiding Principles	Total Suspended Solids	85% Reduction	85.7% Reduction	Yes
	Total Phosphorous	60% Reduction	74.8% Reduction	Yes
	Total Nitrogen	45% Reduction	61.5% Reduction	Yes
	Gross Pollutants	90% Reduction	100% Reduction	Yes

Table 5. MUSIC Modelling Results Summary (OSD)

8. Sediment and erosion management

The site is to be provided with sediment fence, straw bales, and filters.

Although the construction of a sediment basin may be considered unnecessary during the early works stage for sediment runoff in the minor storm event (6 months ARI and 1yr ARI), the provision of a grassed overland flow zone provides an area of sediment storage that will reduce the likelihood of sediment runoff. Sediment runoff during minor storm events would be temporarily stored in the vegetated open space with straw bales after headwall discharge (See Figure 11 below). The open space with straw bales would need to be regularly maintained and cleaned after each rainfall event.

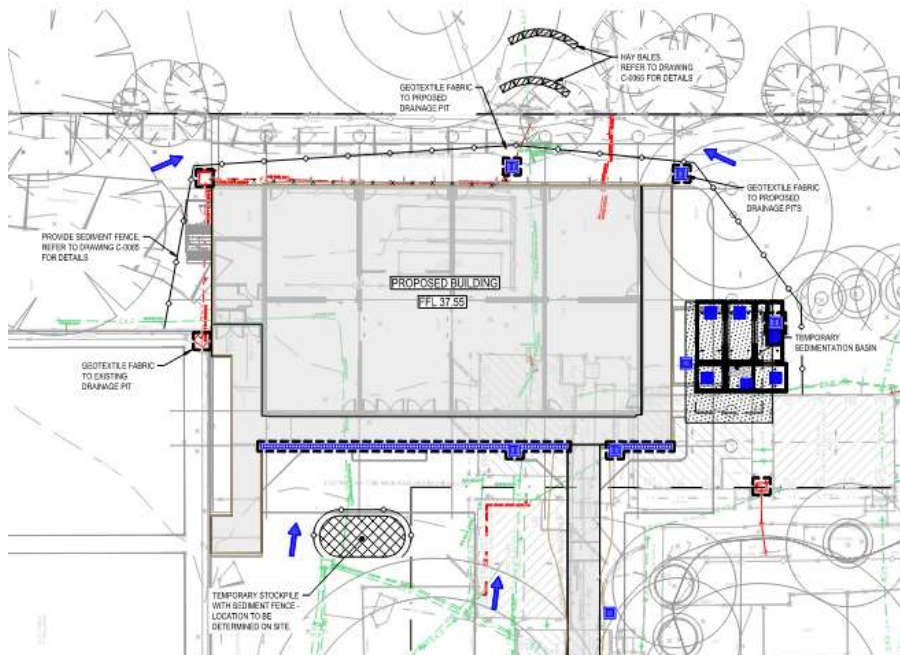


Figure 11. Sediment and erosion control

9. Bulk Earthworks

During bulk earthworks, 150mm topsoil removal, platform for the proposed covered walkway, OSD, stormwater pipes and pits are expected except the area below the suspended slab. The total volume of bulk is relatively reasonable with approximately 9.15cu.m fill required which are based on 60.11cu.m cut and 69.26cu.m fill respectively.

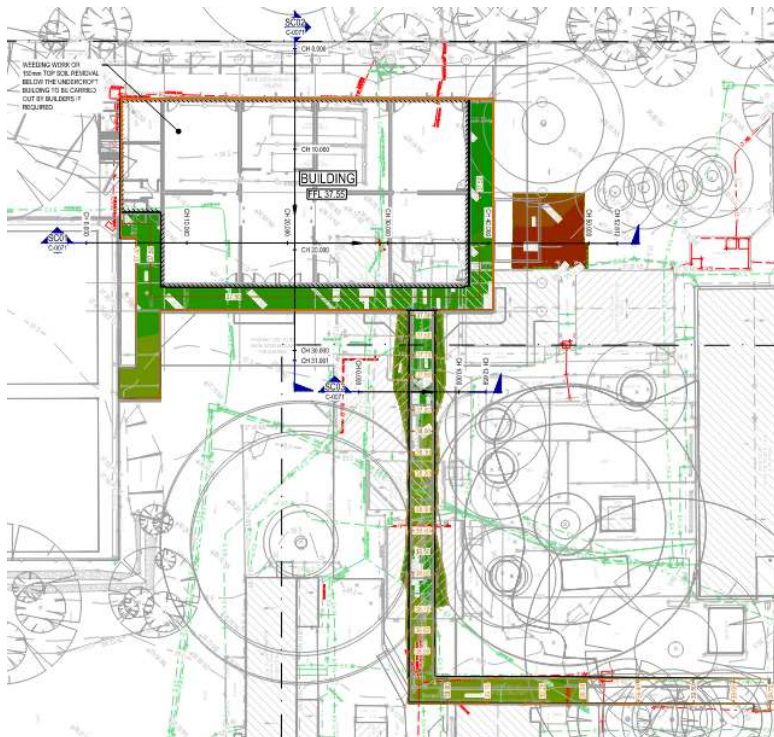


Figure 12. Bulk earthworks

10. Construction Management

During the construction phase, the maintenance and monitoring of erosion and sediment control measures remain the responsibility of the project Contractor. Details of the inspection frequency expected will need to be noted within the Operational Environmental Management Plan (EMP) and Operations & Maintenance Manual by a manufacturer (Atlan). If during the construction phase of the activity, it is deemed necessary, monitoring of the erosion and sediment control measures will be undertaken by a qualified consultant to determine the impact of construction activities on the subject site only. In addition, an approved inspector will have an inspection for maintenance purposes during approved work hours and respite period.

- The Out of School Hours Care (OSHC) proposed hours operational hours could be determined closer to date but can consider typical timings 6.30AM-9.00AM (Before school) and 3.00-6.30PM (After school)
- The Exact number of students attending the OSHC could not be confirmed at this stage, however, assume 15% students of the school capacity
- The OSHC is Typically run by external/private providers

11. Maintenance Program

A suitable maintenance program is the responsibility of the site Owners for the development in conjunction with correspondence and consultation by appropriate parties, such as project engineers or manufacturers. As a guide, the below programs provide a minimum maintenance protocol for the proposed treatment systems to ensure longevity in their stated performance.

11.1 Proprietary Treatment Devices

Proprietary Treatment devices should be maintained in accordance with the manufacturers' specifications, but in general will include 1~6 times inspections with annual maintenance of for full cleaning recommended and every 12 months minor services for Atlan filter. Treatment Devices are generally (depending on model) cleaned as outlined below:

- It is sometimes appropriate to de-water the system before attempting to suck the pollutants out of the holding chamber. This can be done onto adjacent ground or into council's sewer systems, with the authority's consent.
- It is recommended that additional monitoring for "Stormsack" is conducted following moderate to extreme rainfall events, especially previous months have had litter or no rainfall.

Generally, the need for maintenance can be determined easily by opening the unit from the surface and inspecting it.

Refer to the manufacturer's maintenance agreement and specifications for additional information.

12. Mitigation Measures

A summary of mitigation measures is outlined below and detailed in the relevant report sections.

Mitigation Number/ Name	When is Measure to be complied with	Mitigation Measure	Reason For Mitigation Measure
Section 5 / Flood Assessment	Prior to commencement of Construction. Prior to commencement of Operation.	Flood Mitigation – Sufficient drainage provisions should be provided behind the proposed building with 0.5m high masonry walls and Min. 0.5m high open space for quick waterflow during PMF events.	To mitigate flood impact and expedite diversion of overland flow during 1% AEP and PMF events.
Section 7.2 / Stormwater Quality Treatment Devices	Prior to commencement of any works during Design. Prior to commencement of Operation.	Stormwater Quality Treatment – Treatment measures are not expected to significantly impact the surrounding receivers and are predicted to comply with design criteria.	To improve water quality to meet the council requirements.
Section 8 / Sediment and Erosion Management.	Prior to commencement of Construction. Prior to commencement of Operation.	Sediment and erosion control – Sediment and erosion measures are not anticipated to significantly impact the site by mitigation of sediment basin, straw bales, inlet traps & filters.	To mitigate sediment and erosion during construction and early work stage.
Section 10 / Construction Management	Prior to commencement of Construction.	All works will be scheduled in accordance with the following: Works to be scheduled taking into account approved works hours, any restrictions relevant to specific tolls / activities and respite periods etc.	To minimize the impact of construction activities on the subject site.
Section 11 / Maintenance Program	Prior to commencement of any works during Design. Prior to commencement of Operation.	Maintenance Program – Treatment device replacement by the manufacturer is not expected to impact the surrounding receivers.	To identify and provide a minimum maintenance protocol for the proposed treatment systems.

13. Evaluation of Environmental Impacts

This report has been prepared to assess the potential environmental impacts that could arise from the development of The Northmead Public School at 52A Moxhams Road, Northmead. Water quality and sediment & erosion control are adequately adopted throughout the site during early works and construction phase by water quality devices, sediment fences, sediment basins and proper mitigation measures and inspection and maintenance work will be scheduled during off peak hours and approved work hours.

Based on the identification of potential issues, and an assessment of the nature and extent of the impacts of the proposed development, it is determined that:

- The extent and nature of potential impacts are minor environmental impacts in terms of adequate stormwater management system with WSUD devices adjacent to the neighbouring property and will not have significant adverse effects on the locality, community and the environment.
- Potential impacts can be appropriately mitigated or managed to ensure that there is minimal effect on the locality, community.

Therefore, there are no significant impacts on the approval of a Review of Environmental Factors.

14. References

AS/NZ 3500.3:2003 Stormwater Drainage

Architectural plans by Fulton Trotter;

UPRCT "On-site Stormwater Detention Handbook-Fourth Edition"

eWater – *MUSIC Version 6.2*

Watercom – *DRAINS Version 2023.07*

Atlan Filter Operation & Maintenance Manual (Atlan)

Atlan Stormsack Operation & Maintenance Manual (Atlan)

Atlan Vault Technical Guideline (Atlan)

Appendix A – Survey

LEGEND: (SEE NOTES 1)

C	= COMMUNICATIONS LINES (UNDERGROUND) QUALITY
EO	= ELECTRICITY LINES (OVERHEAD)
EU	= ELECTRICITY LINE (UNDERGROUND) QUALITY
FH	= FIRE HYDRANT LINE (UNDERGROUND) QUALITY
IR	= IRRIGATION LINE (UNDERGROUND) QUALITY
G	= GAS LINE (UNDERGROUND) QUALITY
O	= OPTUS LINE (UNDERGROUND) QUALITY
S	= SEWER LINE (UNDERGROUND) QUALITY
SW	= STORMWATER LINE (UNDERGROUND) QUALITY
T	= TELSTRA LINES (UNDERGROUND) QUALITY
U	= UNKNOWN SERVICE (UNDERGROUND) QUALITY
W	= WATER DISTRIBUTION LINE (UNDERGROUND) QUALITY

NOTES 1

• THE PURPOSE OF THIS PLAN IS FOR DESIGN ONLY. CURRENT PLANS ISSUED BY SERVICE PROVIDERS THROUGH "BEFORE YOU DIG AUSTRALIA" ARE STILL REQUIRED. CONTRACTORS AND SUBCONTRACTORS WILL NEED TO EXERCISE THEIR OWN "DUTY OF CARE" AND SHOULD MAKE THEIR OWN BEFORE YOU DIG AUSTRALIA ENQUIRY BEFORE EXCAVATION/CONSTRUCTION. YOU MUST ENSURE "BEFORE YOU DIG AUSTRALIA" ARE CURRENT AS THEY HAVE VARYING EXPIRATION DATES, AND MAY REQUIRE RE-ISSUE OTHERWISE THE INFORMATION ON THIS PLAN MAY NO LONGER BE CURRENT.

• WARNING: UNKNOWN SERVICES MAY EXIST THAT COULD NOT BE ELECTRONICALLY DETECTED. THE DIAGRAMS OF THE SERVICE PROVIDER MAY NOT DEPICT ALL ASSETS WITHIN THEIR NETWORK AND SERVICE PROVIDERS MAY SHARE CONDUITS AND/OR TRENCHES AT THIS LOCATION.

• WARNING: SINGLE MARKED LINES MAY REPRESENT MULTIPLE CONDUITS, PIPES, ENDOR CABLES AT THIS LOCATION. THE RECORDING OF DEPTHS AND POSITION OF UTILITIES CANNOT BE GUARANTEED AS CORRECT. WE RECOMMEND NON DESTRUCTIVE DIGGING/POTHOLING TO EXPOSE SERVICES FOR ACCURATE IDENTIFICATION AND DEPTH.

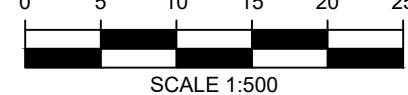
CAUTION: **SURSEARCH** HAVE SURVEYED AND MARKED OUT EXISTING SERVICES IN THE AREA SPECIFIED BY THE CLIENT. THESE SERVICE LINES HAVE BEEN LOCATED BY ABOVE GROUND SERVICE TRACING METHODS AND HAVE NOT BEEN SIGHTED. CMS SURVEYORS HAVE THEN LOCATED THE LINE MARKED BY **SURSEARCH**. THE LOCATION OF THESE MARKED SERVICES ARE APPROXIMATE ONLY. THE POSITION OF THE MARKED SERVICE LINES HAS BEEN MADE WITH REFERENCE TO THE RELEVANT SERVICE AUTHORITY DIAGRAMS. ALL SERVICES MAY NOT HAVE BEEN SHOWN AND UTILITY DESCRIPTIONS HAVE BEEN TAKEN FROM UTILITY PROVIDED DIAGRAMS WHERE AVAILABLE. WE RECOMMEND NON DESTRUCTIVE DIGGING/POTHOLING TO EXPOSE MARKED SERVICES TO IDENTIFY AND SHOW EXACT DEPTH AND LOCATION OF SERVICE LINES PRIOR TO EARTHWORKS COMMENCING. UTILITIES PLOTTED ON THE PLAN THAT TERMINATE IN THE SPECIFIED AREA MAY GO TO FEATURES THAT HAVE NOT BEEN SHOWN ON THE BACKGROUND DETAIL SURVEY PROVIDED BY CLIENT. THE RISK REMAINS WITH THE CLIENT AND/OR SUB CONTRACTOR AND THEIR RESPONSIBILITY TO EXERCISE CAUTION AT ALL TIMES.

HORIZONTAL DATUM:

CO-ORDINATE SYSTEM: MGA 2020 (GROUND)
MARKS ADOPTED: SSM 165787 & SSM 165850

VERTICAL DATUM:

DATUM: AUSTRALIAN HEIGHT DATUM (AHD)
B.M. ADOPTED: SSM 165787
R.L. 44.972 (CLASS B)
SOURCE: S.C.I.M.S. (18/08/2023)

**CLIENT:**

DEPARTMENT OF EDUCATION
SCHOOL INFRASTRUCTURE NSW

LGA: CITY OF PARRAMATTA

**PLAN SHOWING SURVEY OF UNDERGROUND SERVICES
OVER LOT 1 IN DP176742, LOT 1 DP20061, LOT 1
DP209810 & LOT 1 IN DP366405**
No.52A MOXHAMS ROAD
NORTHMEAD, NSW, 2152

**CMS SURVEYORS PTY LTD**

ACN 096 240 201

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SURVEYED BS/TH		DRAWN GP	CHECKED BS/TH	APPROVED RM	ISSUE 2
SURVEY INSTRUCTION 6482C		SCALE 1:500@A1	DATE OF SURVEY 25-28/09/23 & 4/11/24		
DRAWING NAME 6482Cservice Northmead PS (2763)			SHEET 1 OF 14		
FILE 6482Cservice 2 Northmead PS (2763).dwg					

Notes:

- BOUNDARY IDENTIFICATION HAS BEEN UNDERTAKEN.
- WALL TO BOUNDARY DIMENSIONS SHOWN HEREON MUST NOT BE USED FOR CONSTRUCTION.
- IF CONSTRUCTION IS INTENDED TO BE UNDERTAKEN ON OR ADJACENT TO PROPERTY BOUNDARIES THE BOUNDARIES OF THE LAND MUST BE MARKED OR THE BUILDING SETOUT.
- THIS SURVEY IS FOR DESIGN PURPOSES OF THE SUBJECT LAND ONLY. THIS PLAN MUST NOT BE USED FOR ANY OTHER MATTER, PURPOSE OR CONSTRUCTION SETOUT.
- TREE SIZES ARE ESTIMATES ONLY.
- THIS PLAN HAS BEEN PREPARED FOR THE EXCLUSIVE USE OF DEPARTMENT OF EDUCATION SCHOOL INFRASTRUCTURE NSW.
- RELATIONSHIP OF IMPROVEMENTS TO BOUNDARIES IS DIAGRAMMATIC ONLY. WHERE OFFSETS ARE CRITICAL THEY SHOULD BE CONFIRMED BY FURTHER SURVEY.
- EXCEPT WHERE SHOWN BY DIMENSION LOCATION OF DETAIL WITH RESPECT TO BOUNDARIES IS INDICATIVE ONLY.
- ONLY VISIBLE SERVICES HAVE BEEN LOCATED. UNDERGROUND SERVICES HAVE NOT BEEN LOCATED. BEFORE YOU DIG AUSTRALIA (www.byda.com.au) SHOULD BE USED AND A FULL UTILITY INVESTIGATION, INCLUDING A UTILITY LOCATION SURVEY, SHOULD BE UNDERTAKEN BEFORE CARRYING OUT ANY CONSTRUCTION ACTIVITY IN OR NEAR THE SURVEYED AREA.
- SEWER MAIN PLOTTED FROM SYDNEY WATER SEWER DIAGRAM. LOCATION SHOULD BE MARKED ON SITE IF CRITICAL.
- CRITICAL SPOT LEVELS SHOULD BE CONFIRMED WITH SURVEYOR.

Notes:

- CONTOURS SHOWN DEPICT THE TOPOGRAPHY. THEY DO NOT REPRESENT THE EXACT LEVEL AT ANY PARTICULAR POINT. ONLY SPOT LEVELS SHOULD BE USED FOR CALCULATIONS OF QUANTITIES WITH CAUTION.
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CHRISTOPHER LARMOUR
REGISTERED SURVEYOR BOSSI NUMBER 8766

TITLE INDICATES THAT LOT 1 IN D.P.366405 IS SUBJECT TO:

- RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S).

TITLE INDICATES THAT LOT 1 IN D.P.209810 IS SUBJECT TO:

- RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S).

TITLE INDICATES THAT LOT 1 IN D.P.176742 IS SUBJECT TO:

- RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
- ② - AF946340 EASEMENT FOR PADMOUNT SUBSTATION 3.05 WIDE AFFECTING THE PART DESIGNATED (A) IN PLAN WITH AF946340
- ⑥ - AF946341 RESTRICTION(S) ON THE USE OF LAND

TITLE INDICATES THAT LOT 1 IN D.P.20061 IS SUBJECT TO:

- RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
- D407536 COVENANT (NOT INVESTIGATED)

LEGEND:

AC	= AIR CONDITIONER
AT	= ASTRO TURF
AW	= AWNING
BB	= BOTTOM OF BANK
BT	= BITUMEN
BLD	= EXTERNAL BUILDING
BOK	= BACK OF KERB
BOL	= BOLLARD
BOR	= BOTTOM OF ROCK
BW	= BOTTOM WALL
CL	= CENTRELINE
CON	= CONCRETE
CPT	= COMMUNICATIONS PIT
CSL	= COMMUNICATIONS SURFACE LEVEL
CUB	= CUBBY HOUSE
DD	= DISH DRAIN
DK	= DECK
DNP	= DOWN PIPE
DRN	= DRAIN
DS	= DOOR SILL LEVEL
EK	= ELECTRICITY KIOSK
ELO	= ELECTRICITY LINE OVERHEAD
EPL	= ELECTRICITY PILLAR
EPIT	= ELECTRICITY PIT
ESL	= ELECTRICITY SURFACE LEVEL
FCE	= FENCE
FL	= FLOOR LEVEL
GDN	= GARDEN
GT	= GUTTER LEVEL
GRA	= GRAVEL
GRT	= GRATE
GSL	= GAS SURFACE LEVEL
GVA	= GAS VALVE
HL	= HOOD LEVEL
HYD	= HYDRANT
IL	= INVERT LEVEL
INS	= INSPECTION PIT
LAN	= LANDING
LID	= MISCELLANEOUS PIT LID
LIN	= LINTEL
LIP	= KERB LIP
LM	= LINE MARKING
LP	= LIGHT POLE
NS	= NATURAL SURFACE
OPT	= OPTUS PIT
OSD	= ONSITE DETENTION TANK
OSL	= OPTUS SURFACE LEVEL
P1100	= INVERT LEVEL PIPE AND DIA. 110
PAT	= PATIO
PAV	= PAVING
PER	= PERGOLA
PIPE	= PIPE OBVERT
PIT	= TOP OF PIT
RA	= RAILING
RF	= TOP OF ROOF
RMP	= RAMP
RR	= ROOF RIDGE
SIP	= SEWER INSPECTION PIT
SGN	= SIGN
SL	= SILL LEVEL
SMH	= SEWER MAN HOLE
SMHS	= SEWER MAN HOLE SQUARE
SSL	= SEWER SURFACE LEVEL
STR	= STAIRS
SVE	= SEWER VENT
SWPIT	= STORMWATER PIT
SWSL	= STORMWATER SURFACE LEVEL
TABLE	= TABLE
TB	= TOP OF BANK
TCK	= TRACK
TFCE	= TOP OF FENCE
TG	= TOP OF GUTTER
TB	= TOP OF KERB
TLE	= TREE LINE
TOP	= TOP OF PIPE
TOR	= TOP OF ROCK
TRT	= TELSTRA PIT
TR	= TREE
TSL	= TELSTRA SURFACE LEVEL
TW	= TOP OF WALL
USL	= UNKNOWN SERVICE SURFACE LEVEL
VC	= VEHICLE CROSSING
VNT	= VENT
WM	= WATER METER
WSL	= WATER SURFACE LEVEL
WV	= WATER VALVE

LEGEND:

EOT	= END OF TRACE
FH	= FIRE
FOD	= FULL OF DEBRIS
GPD	= GROUND PENETRATING RADAR
HPG	= HIGH PRESSURE GAS
NO SIG	= NO SIGNAL
REDUN	= REDUNDANT
UTO	= UNABLE TO OPEN
UTT	= UNABLE TO TRACE

CODE	DEPTH	PIPE	DIAMETER	EOT
106.78	SSL	1.31	B Ø100	EOT
RL	LOCATION	QUALITY	NOTE	

SUBSURFACE UTILITY INFORMATION

QLD IS THE LOWEST OF THE FOUR QUALITY LEVELS STIPULATED IN ASS488. IT IS AN INDICATIVE POSITION COMPILED FROM EXISTING RECORDS, CURSORY SITE INSPECTION, ANECDOTAL EVIDENCE.

QLC IS THE NEXT LEVEL UP FROM QLD. ASS488 STATES THAT QLC IS A SURFACE FEATURE CORRELATION OR AN INTERPRETATION OF THE APPROXIMATE LOCATIONS AND ATTRIBUTES OF A SURFACE FEATURE USING A COMBINATION OF EXISTING RECORDS (ANECDOTAL EVIDENCE) SONIC BOOM TECHNIQUES AND A SITE SURVEY OF VISIBLE EVIDENCE.

QLB ELECTRONICALLY TRACED AS PER ASS488 (DIRECT CONNECTION, INDUCTION, FLEXITRACE/SONDE, FLEXIROD/SONDE) WITH AN ESTIMATED POSITIONAL TOLERANCE OF +/-300MM IN PLAN, +/-500MM IN DEPTH (HIGH CONFIDENCE LEVEL).

QLA IS THE HIGHEST QUALITY LEVEL AS PER ASS488 AND CONSISTS OF THE POSITIVE IDENTIFICATION OF THE ATTRIBUTE AND LOCATION OF A SUBSURFACE UTILITY AT A POINT TO AN ABSOLUTE SPATIAL POSITION IN THREE DIMENSIONS. THIS CAN BE ACHIEVED AT OPENED PITS AND IN THE POTHOLES WHERE THE UTILITY IS EXPOSED.

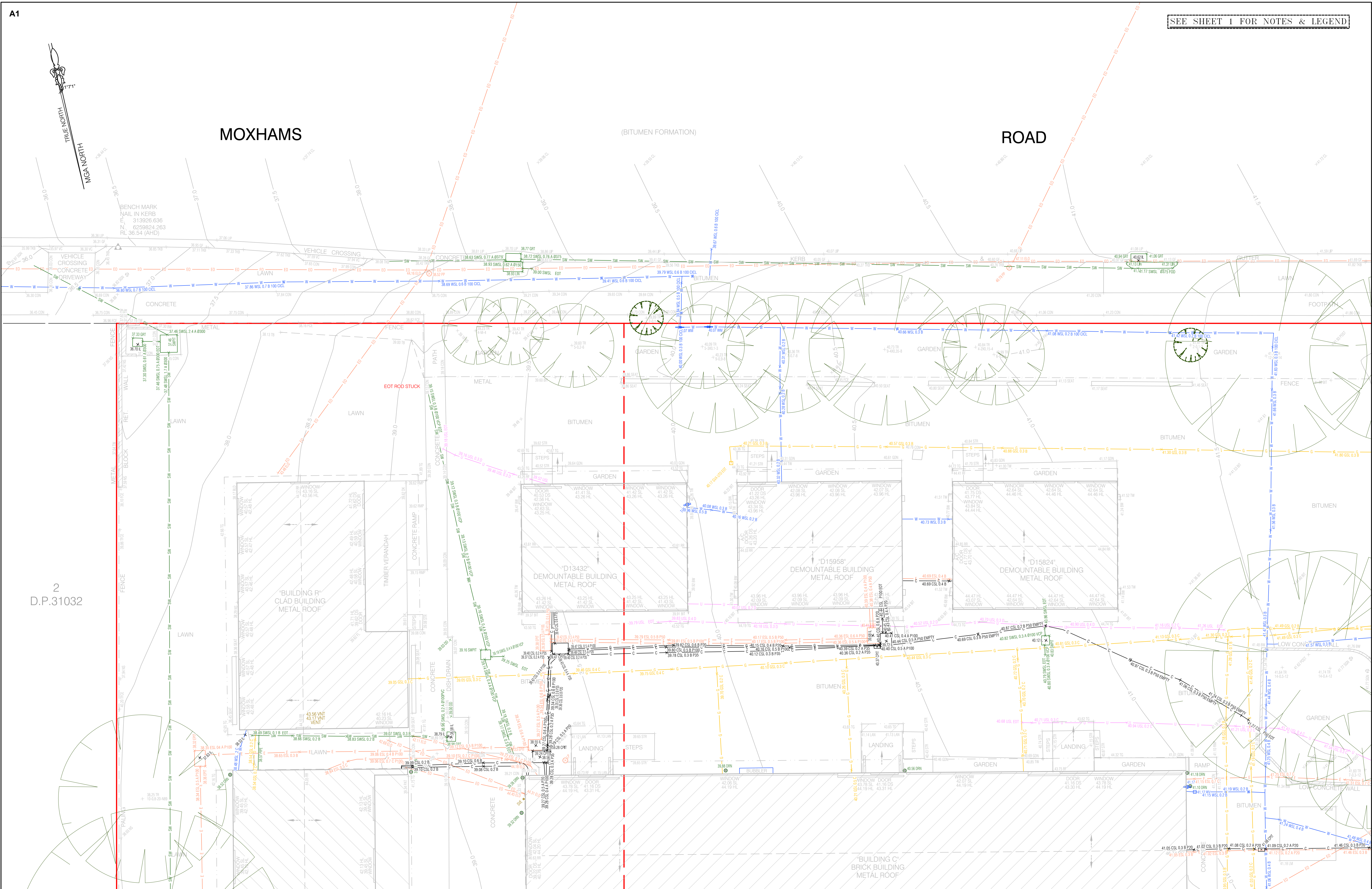
HORIZONTAL AND VERTICAL TOLERANCE: +/- 50MM.

QLX ELECTRONICALLY LOCATED WITH GROUND PENETRATING RADAR OR OTHER ELECTRONIC LOCATING TECHNIQUES NOT COMPLIANT WITH ASS488. ESTIMATED POSITIONAL TOLERANCE IS +/-300MM IN PLAN, +/-500MM IN DEPTH (HIGH CONFIDENCE LEVEL).

QLY ELECTRONICALLY LOCATED BUT WITH REDUCED CONFIDENCE IN PLAN POSITION/DEPTH (MEDIUM CONFIDENCE LEVEL).

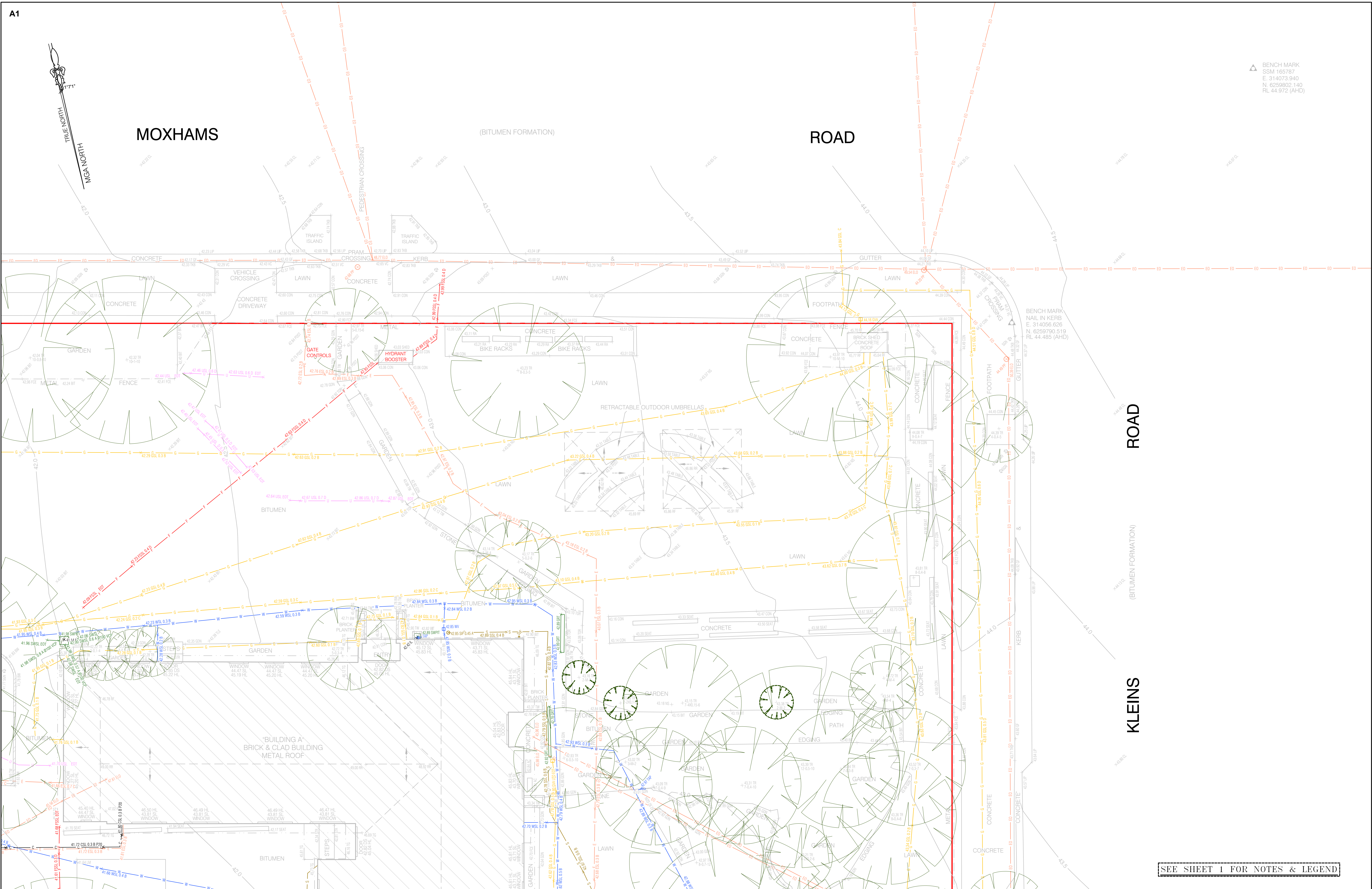
QLZ ELECTRONICALLY LOCATED WITH LOW CONFIDENCE LEVEL IN PLAN POSITION/DEPTH (LOW CONFIDENCE LEVEL).





SEE SHEET 1 FOR NOTES & LEGEND

		HORIZONTAL DATUM: CO-ORDINATE SYSTEM: MGA 2020 (GROUND) MARKS ADOPTED: SSM 165787 & SSM 165850		 BEFORE YOU DIG www.beyoudig.com.au <i>Zero Damage - Zero Harm</i>		 0 1 2 3 4 5 SCALE 1:100		CLIENT: DEPARTMENT OF EDUCATION SCHOOL INFRASTRUCTURE NSW		PLAN SHOWING SURVEY OF UNDERGROUND SERVICES OVER OVER LOT 1 IN DP176742, LOT 1 DP20061, LOT 1 DP209810 & LOT 1 IN DP366405 No.52A MOXHAMS ROAD NORTHMEAD, NSW, 2152		 CMS SURVEYORS PTY LTD ACN 096 240 201 PO Box 463 Dee Why, NSW, 2099 2/99A South Creek Road, Dee Why, NSW, 2099 (02) 9971 4802 info@cmsurveyors.com.au www.cmsurveyors.com.au		<table><tr><td colspan="2">SURVEYED BS/TH</td><td colspan="2">DRAWN GP</td><td colspan="2">CHECKED BS/TH</td><td colspan="2">APPROVED RM</td></tr><tr><td colspan="2">SURVEY INSTRUCTION 6482C</td><td colspan="2">SCALE 1:100@A1</td><td colspan="2">DATE OF SURVEY 25-28/09/23 & 4/11/24</td><td colspan="2"></td></tr><tr><td colspan="2">DRAWING NAME</td><td colspan="4">6482Cservice Northmead PS (2763)</td><td colspan="2">SHEET 2 OF 14</td><td colspan="2">ISSUE 2</td></tr><tr><td colspan="2">CAD FILE</td><td colspan="4">6482Cservice 2 Northmead PS (2763).dwg</td><td colspan="2"></td><td colspan="2"></td></tr></table>				SURVEYED BS/TH		DRAWN GP		CHECKED BS/TH		APPROVED RM		SURVEY INSTRUCTION 6482C		SCALE 1:100@A1		DATE OF SURVEY 25-28/09/23 & 4/11/24				DRAWING NAME		6482Cservice Northmead PS (2763)				SHEET 2 OF 14		ISSUE 2		CAD FILE		6482Cservice 2 Northmead PS (2763).dwg							
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1	FIRST ISSUE	20/10/2023																																																			



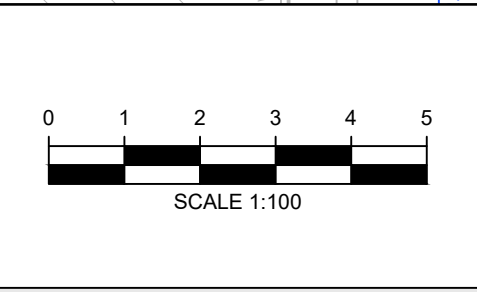
BENCH MARK
SSM 165787
E: 314073.940
N: 6259802.140
RL 44.972 (AHD)

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1	FIRST ISSUE	20/10/2023

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B.M. ADOPTED: SSM 165787
R.L. 44.972 (CLASS B)
SOURCE: S.C.I.M.S. (18/08/2023)



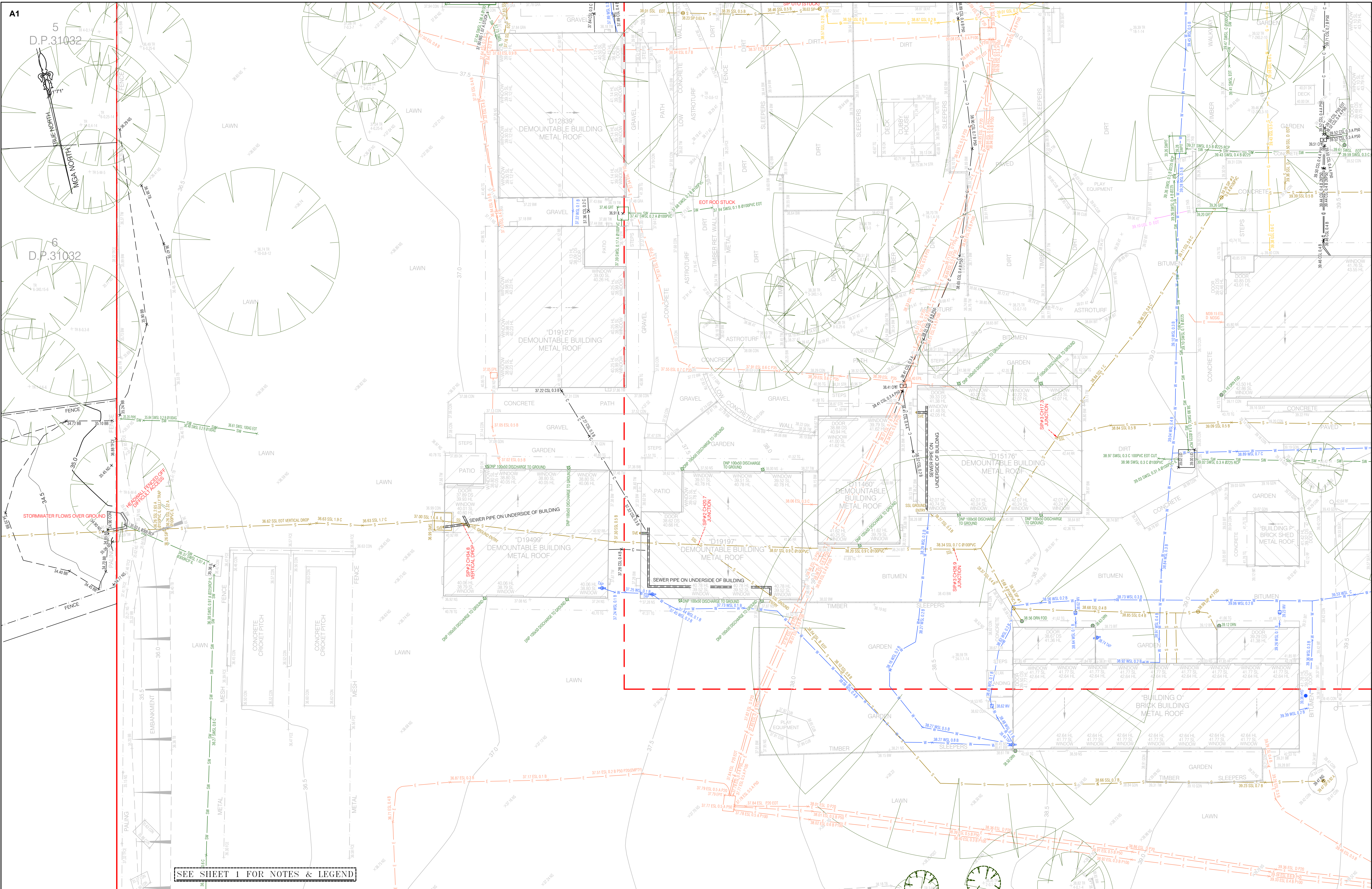
CLIENT:
**DEPARTMENT OF EDUCATION
SCHOOL INFRASTRUCTURE NSW**

LGA: CITY OF PARRAMATTA

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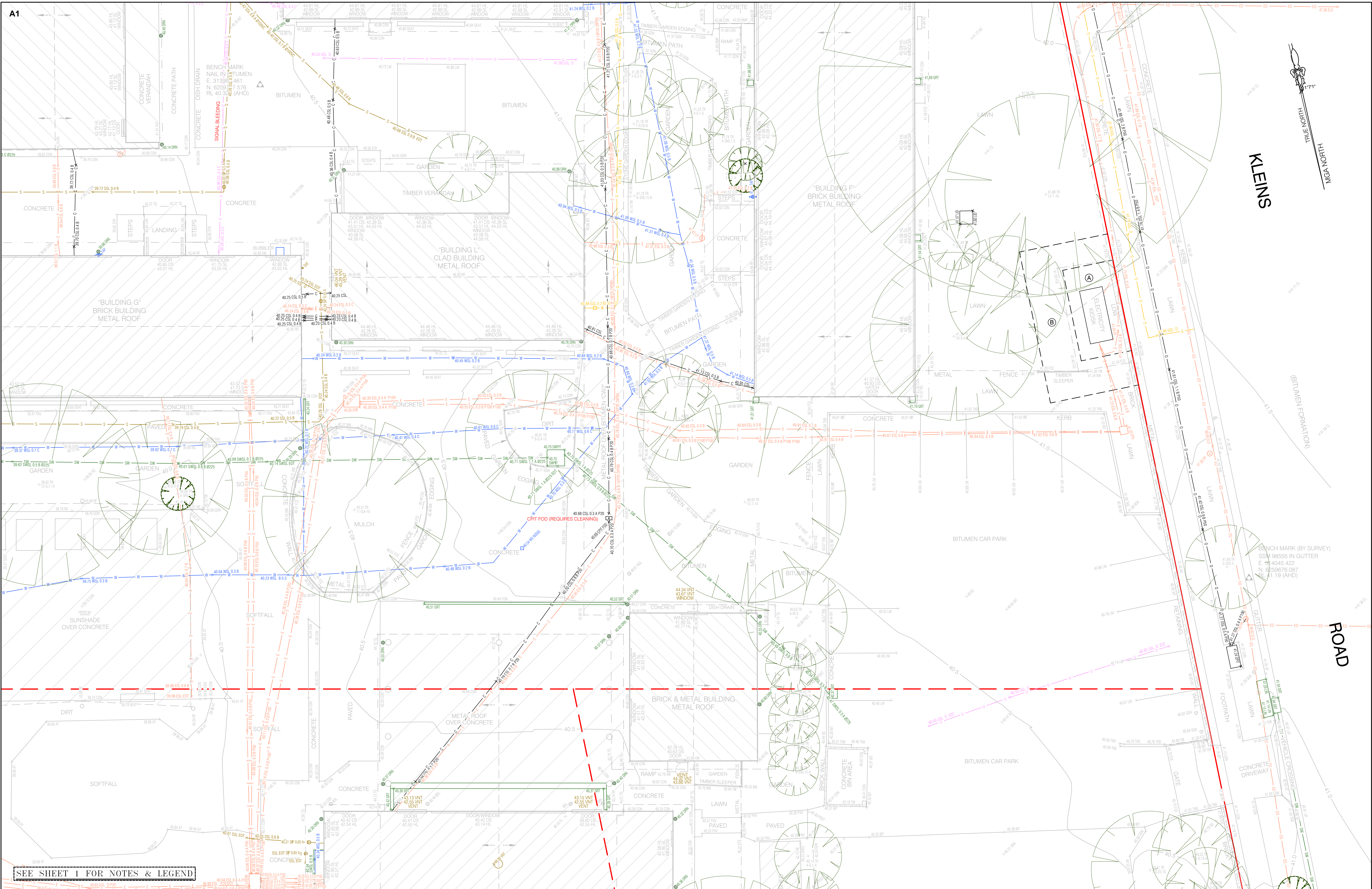
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(02) 9971 4802
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www.cmsurveyors.com.au

	SURVEYED BS/TH	DRAWN GP	CHECKED BS/TH	APPROVED RM	
	SURVEY INSTRUCTION 6482C		SCALE 1:100@A1	DATE OF SURVEY 25-28/09/23 & 4/11/24	
P	DRAWING NAME 6482Cservice Northmead PS (2763)			SHEET	ISSUE
	CAD FILE 6482Cservice 2 Northmead PS (2763).dwg			3 OF 14	2



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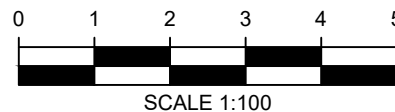
		HORIZONTAL DATUM: CO-ORDINATE SYSTEM: MGA 2020 (GROUND) MARKS ADOPTED: SSM 165787 & SSM 165850		 BEFORE YOU DIG www.beyoudig.com.au <i>Zero Damage - Zero Harm</i>		 SCALE 1:100		CLIENT: DEPARTMENT OF EDUCATION SCHOOL INFRASTRUCTURE NSW		PLAN SHOWING SURVEY OF UNDERGROUND SERVICES OVER OVER LOT 1 IN DP176742, LOT 1 DP20061, LOT 1 DP209810 & LOT 1 IN DP366405 No.52A MOXHAMS ROAD NORTHMEAD, NSW, 2152		 CMS SURVEYORS PTY LTD ACN 096 240 201 PO Box 463 Dee Why, NSW, 2099 2/99A South Creek Road, Dee Why, NSW, 2099 (02) 9971 4802 info@cmsurveyors.com.au www.cmsurveyors.com.au		<table><tr><td>SURVEYED BS/TH</td><td>DRAWN GP</td><td>CHECKED BS/TH</td><td>APPROVED RM</td></tr><tr><td>SURVEY INSTRUCTION 6482C</td><td>SCALE 1:100@A1</td><td colspan="2">DATE OF SURVEY 25-28/09/23 & 4/11/24</td></tr><tr><td>DRAWING NAME</td><td colspan="2">6482Cservice Northmead PS (2763)</td><td>SHEET</td><td rowspan="2">ISSUE</td></tr><tr><td>CAD FILE</td><td colspan="2">6482Cservice 2 Northmead PS (2763).dwg</td><td>6 OF 14</td></tr></table>				SURVEYED BS/TH	DRAWN GP	CHECKED BS/TH	APPROVED RM	SURVEY INSTRUCTION 6482C	SCALE 1:100@A1	DATE OF SURVEY 25-28/09/23 & 4/11/24		DRAWING NAME	6482Cservice Northmead PS (2763)		SHEET	ISSUE	CAD FILE	6482Cservice 2 Northmead PS (2763).dwg		6 OF 14
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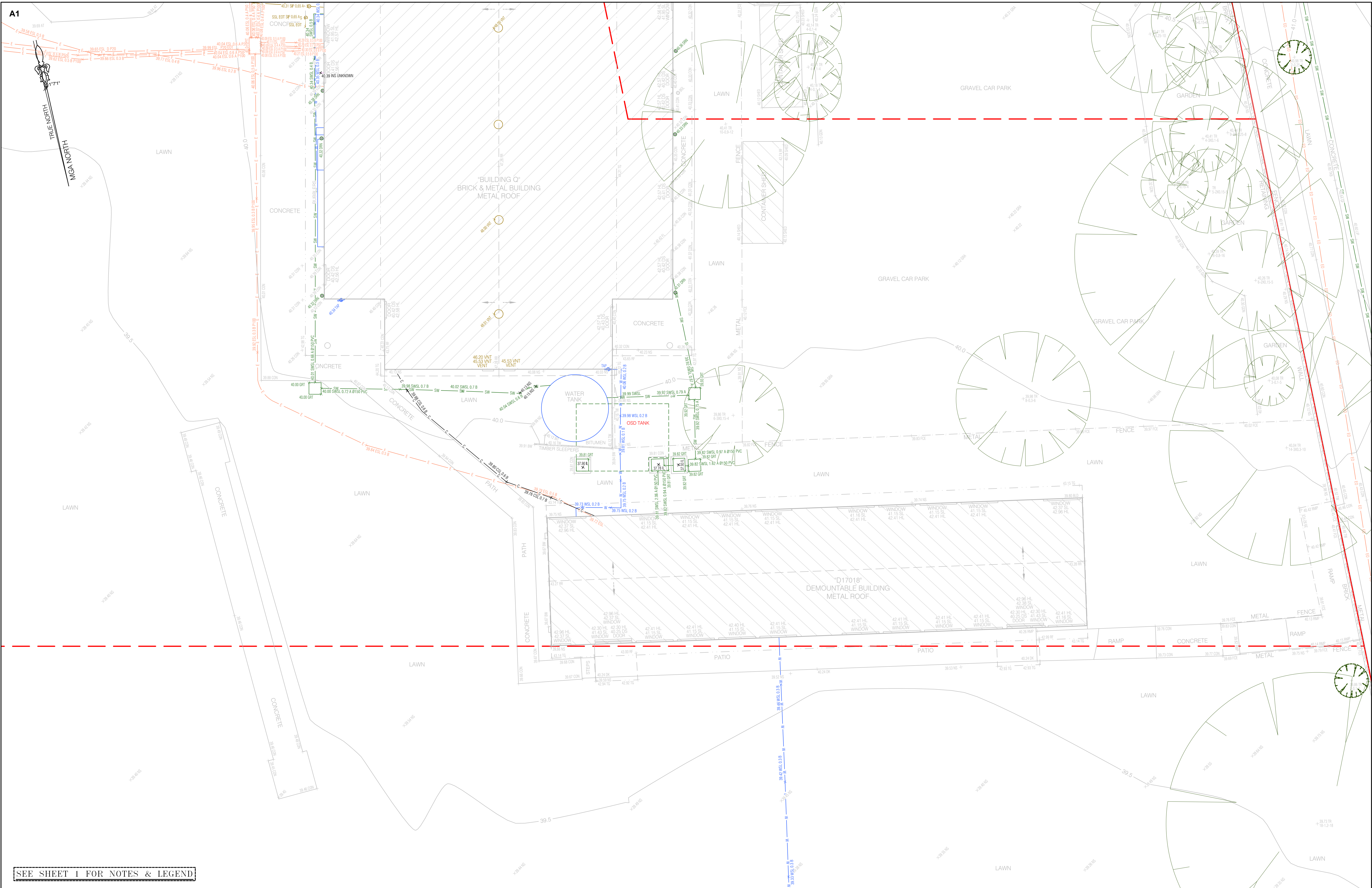


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CAD FILE 6482Cservice 2 Northmead PS (2763).dwg				ISSUE 2

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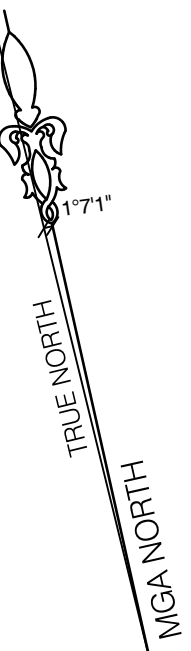
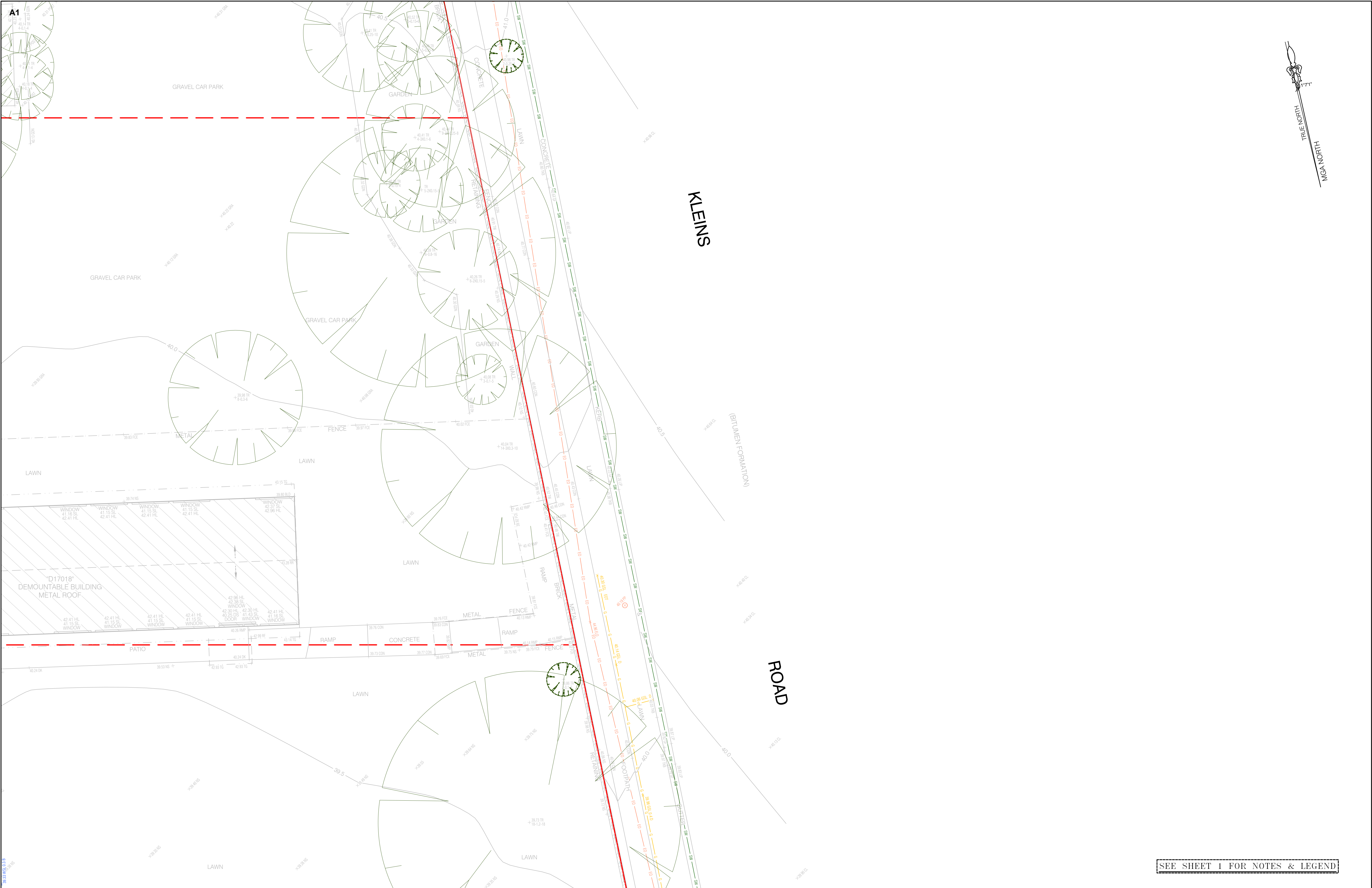
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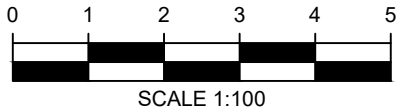


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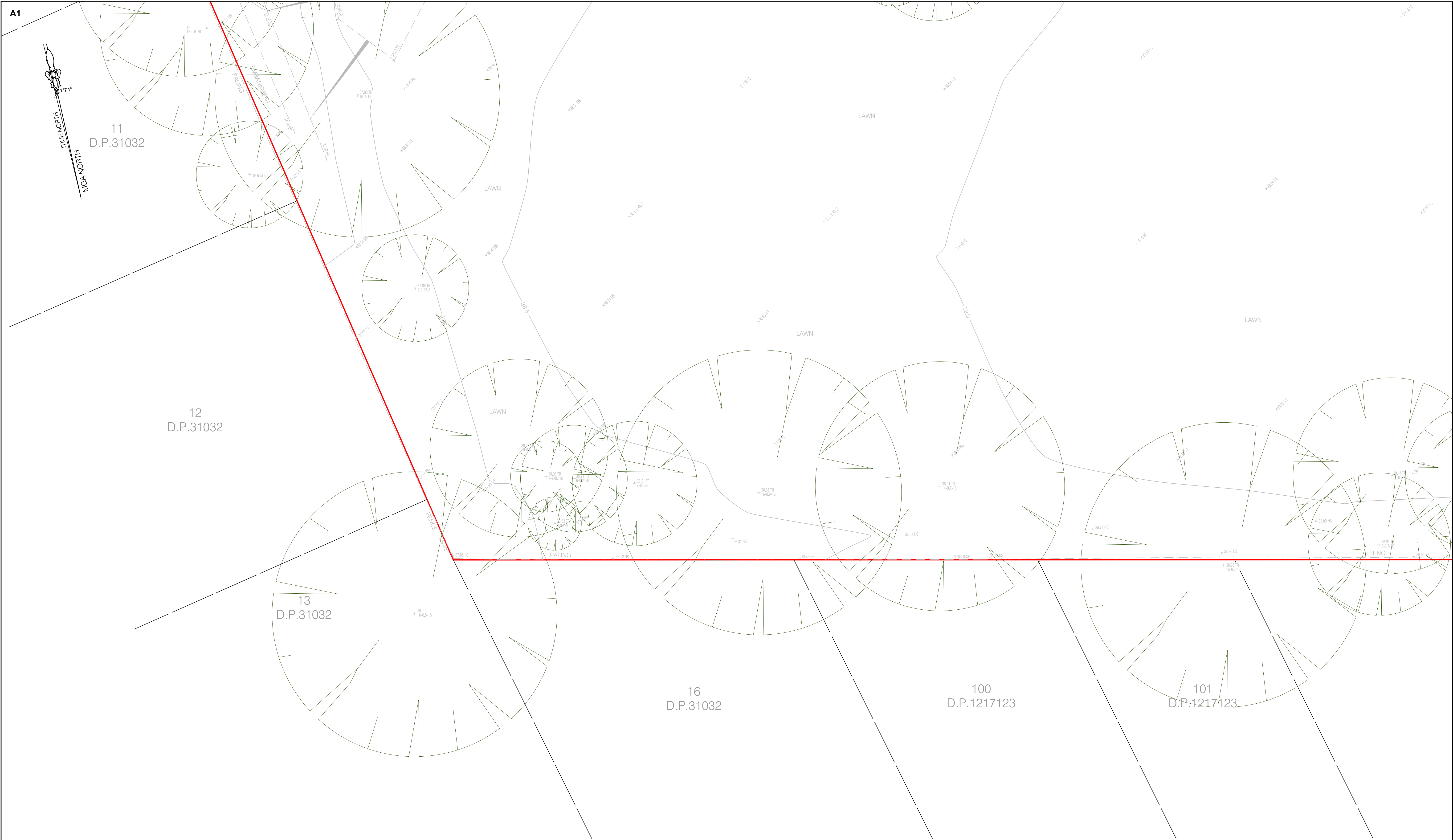
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CAD FILE 6482Cservice 2 Northmead PS (2763).dwg				ISSUE 2



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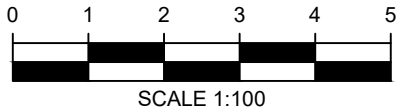


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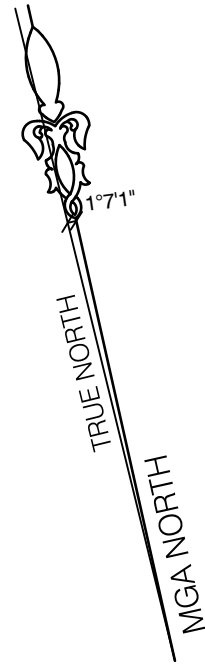
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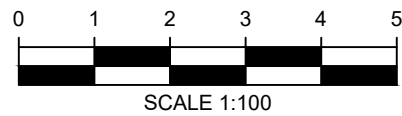
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CAD FILE 6482Cservice 2 Northmead PS (2763).dwg		SHEET 12 OF 14	ISSUE 2



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Appendix B – Architectural Plans

NORTHMEAD PUBLIC SCHOOL

FOR SCHOOL INFRASTRUCTURE NSW

7068ND01

							Drawing Name	Rev
NPS	FTA	XX	XX	DR	A	0000	COVER SHEET + DRAWING LIST	04
NPS	FTA	XX	XX	DR	A	0001	SPECIFICATIONS SCHEDULE & MATERIAL SELECTIONS	03
NPS	FTA	00	00	DR	A	1001	EXISTING SITE PLAN	04
NPS	FTA	00	00	DR	A	1002	DEMOLITION PLAN	03
NPS	FTA	00	00	DR	A	1003	SITE ANALYSIS PLAN	03
NPS	FTA	00	00	DR	A	1101	PROPOSED SITE PLAN	04
NPS	FTA	00	00	DR	A	1201	SITE SECTIONS	02
NPS	FTA	00	00	DR	A	1401	EXTERNAL WORKS PLAN	03
NPS	FTA	00	00	DR	A	1402	PROPOSED COVERED WALKWAY	02
NPS	FTA	00	00	DR	A	1403	PROPOSED COVERED WALKWAY - ROOF	02
NPS	FTA	00	00	DR	A	1501	PROPOSED STAGING PLAN 01	03
NPS	FTA	00	00	DR	A	1502	PROPOSED STAGING PLAN 02	03
NPS	FTA	00	00	DR	A	1503	PROPOSED STAGING PLAN 03	03
NPS	FTA	00	00	DR	A	1601	PLAYSCAPE CALCULATION	02
NPS	FTA	00	00	DR	A	1602	AMENITIES STRATEGY	02
NPS	FTA	00	00	DR	A	1603	ACCESS STRATEGY	01
NPS	FTA	00	00	DR	A	1604	TREE REMOVAL PLAN	02
NPS	FTA	00	00	DR	A	1610	INDIGENOUS ARTWORK STRATEGY	03
NPS	FTA	00	00	DR	A	1630	EXTERNAL MATERIAL AND FINISHES	03
NPS	FTA	00	00	DR	A	1640	SHADOW DIAGRAMS	02
NPS	FTA	00	00	DR	A	1650	CONSTRUCTION MANAGEMENT STRATEGY	01
NPS	FTA	B00A	GF	DR	A	2100	BUILDING A - EXISTING GROUND FLOOR PLAN	04
NPS	FTA	B00A	GF	DR	A	2101	BUILDING A - PROPOSED GROUND FLOOR PLAN	03
NPS	FTA	B00R	GF	DR	A	2101	BUILDING R - EXISTING AND PROPOSED GROUND FLOOR PLAN	04
NPS	FTA	B00T	GF	DR	A	2101	BUILDING T - GROUND FLOOR PLAN	04
NPS	FTA	B00T	LR	DR	A	2102	BUILDING T - ROOF PLAN	04
NPS	FTA	B00T	GF	DR	A	2201	BUILDING T - GROUND FLOOR RCP	04
NPS	FTA	B00T	ZZ	DR	A	3201	BUILDING T - ELEVATIONS	04
NPS	FTA	B00T	ZZ	DR	A	3202	BUILDING T - ELEVATIONS	04
NPS	FTA	B00T	ZZ	DR	A	3303	BUILDING T - SECTIONS	04
NPS	FTA	B00T	ZZ	DR	A	4001	BUILDING T - WALL TYPE DETAILS / PARTITION DETAILS	04
NPS	FTA	B00T	ZZ	DR	A	4201	BUILDING T - WALL SECTIONS 01	04
NPS	FTA	B00T	ZZ	DR	A	4202	BUILDING T - WALL SECTIONS 02	04
NPS	FTA	B00T	ZZ	DR	A	4401	BUILDING T - STAIR AND RAMP DETAILS	02
NPS	FTA	B00T	ZZ	DR	A	4501	BALUSTRADE AND HANDRAIL DETAILS	02
NPS	FTA	B00T	ZZ	DR	A	4801	COVERED WALKWAY DETAILS	03
NPS	FTA	B00T	ZZ	DR	A	4901	TYPICAL FASCIA DETAILS	03
NPS	FTA	B00A	ZZ	DR	A	5001	BUILDING A - TECH HUB / PRINCIPAL ROOM	02
NPS	FTA	B00A	ZZ	DR	A	5002	BUILDING A - DEPUTY PRINCIPAL / AP OFFICE	02
NPS	FTA	B00A	ZZ	DR	A	5003	BUILDING A - STAFF ROOM	02
NPS	FTA	B00T	ZZ	DR	A	6001	EXTERNAL DOOR & WINDOW SCHEDULE	03
NPS	FTA	B00T	ZZ	DR	A	6002	INTERNAL DOOR & WINDOW SCHEDULE	03
NPS	FTA	B00T	ZZ	DR	A	9001	BUILDING T - PERSPECTIVES 1	03
NPS	FTA	B00T	ZZ	DR	A	9002	BUILDING T - PERSPECTIVES 2	03





1 PERSPECTIVES
3D VIEW 03



2 PERSPECTIVES
3D VIEW 04

150mm @ A1
100
50

50 100 150mm @ A1

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01	80% SCHEMATIC DESIGN	26/11/2024	AK

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QLD 4500

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SCHOOL INFRASTRUCTURE
NSW
NORTHMEAD PUBLIC SCHOOL
MOXHAMS ROAD,
NORTHMEAD, NSW

BUILDING T - PERSPECTIVES 2
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PROJECT NUMBER 7068ND01 DIRECTOR JW CHECKED
DRAWING NUMBER NPS-FTA-B00T-ZZ-DR-A-9002 REVISION 03



1 PERSPECTIVES
3D VIEW 01



2 PERSPECTIVES
3D VIEW 02

150mm @ A1
100
50

50 100 150mm @ A1

plot date: Thursday, 19 December 2024 2:47 PM file location: BIMcloud: FTA-SYD-BIM26 - BIMcloud Basic for Archicad 26/7068ND01 Northmead Public School

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02	95% SCHEMATIC DESIGN	10/12/2024	AK
01		26/11/2024	
P2	100% CONCEPT DESIGN	31/10/2024	NK
P1	80% CONCEPT DESIGN	18/10/2024	AK

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SCHEMATIC DESIGN
SCHOOL INFRASTRUCTURE
NSW
NORTHMEAD PUBLIC SCHOOL
MOXHAMS ROAD,
NORTHMEAD, NSW

DRAWING **BUILDING T - PERSPECTIVES 1**
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7068ND01 **JW** **NK**
DRAWING NUMBER REVISION
NPS-FTA-B00T-ZZ-DR-A-9001 **03**

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Ryan Lovelace (solicitor)

NSW 15804
NSW 6855
NSW 9371
NSW 7454
NSW 7180
NSW 4520
NSW 4108
NSW 3500

DRAWING	INTERNAL DOOR & WINDOW SCHEDULE		
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PROJECT NUMBER	DIRECTOR	CHECKED	
7068ND01	JW		
DRAWING NUMBER	REVISION		
NPS-FTA-B00T-ZZ-DR-A-6002			03

A blank sheet of graph paper with a grid pattern. The vertical axis is labeled "150mm @ A" at the top and "50" at the bottom. The horizontal axis is labeled "50", "100", and "150mm @ A1" from left to right. The plot area contains a single horizontal line drawn across the middle.

[illegible]

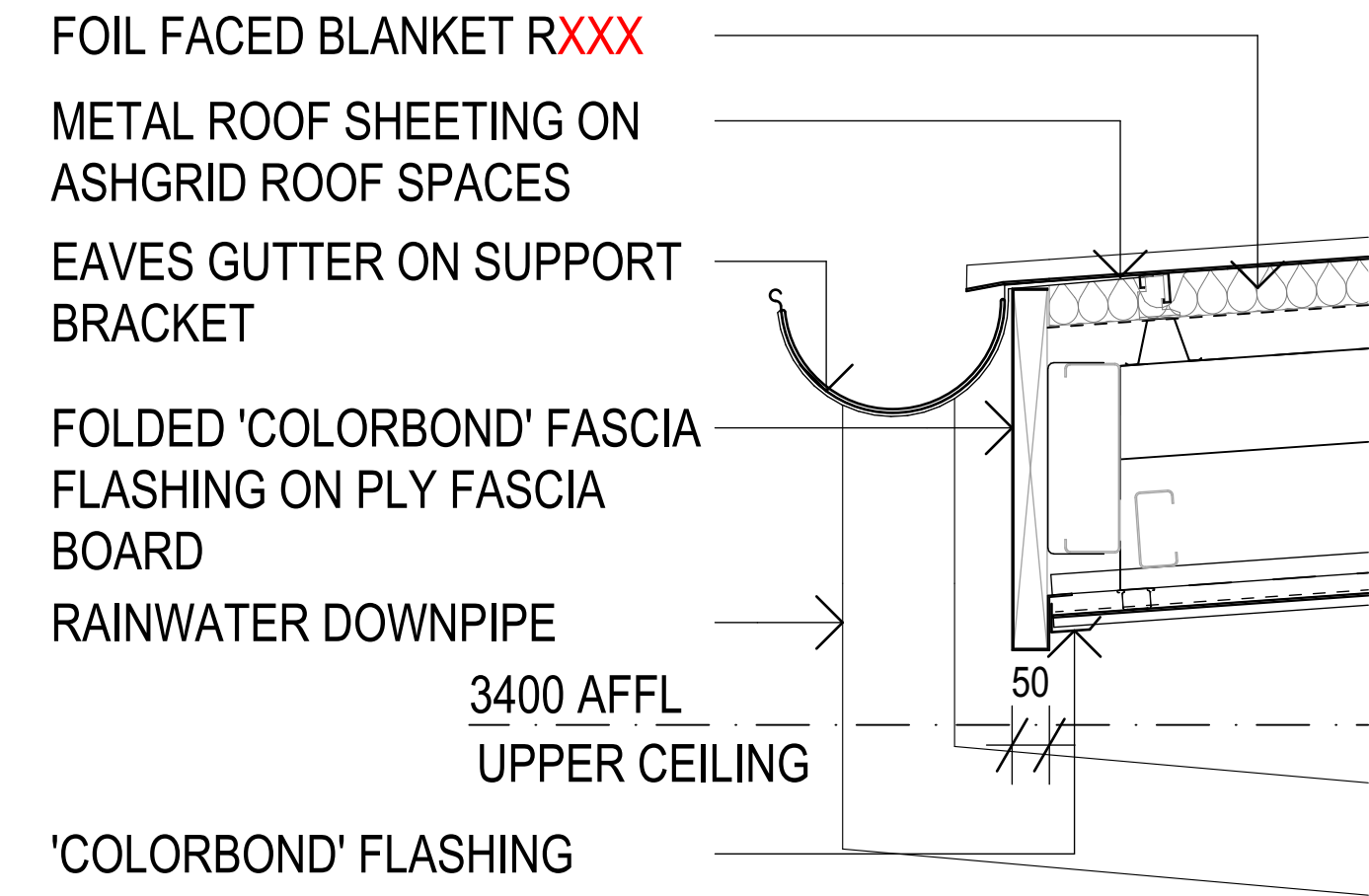
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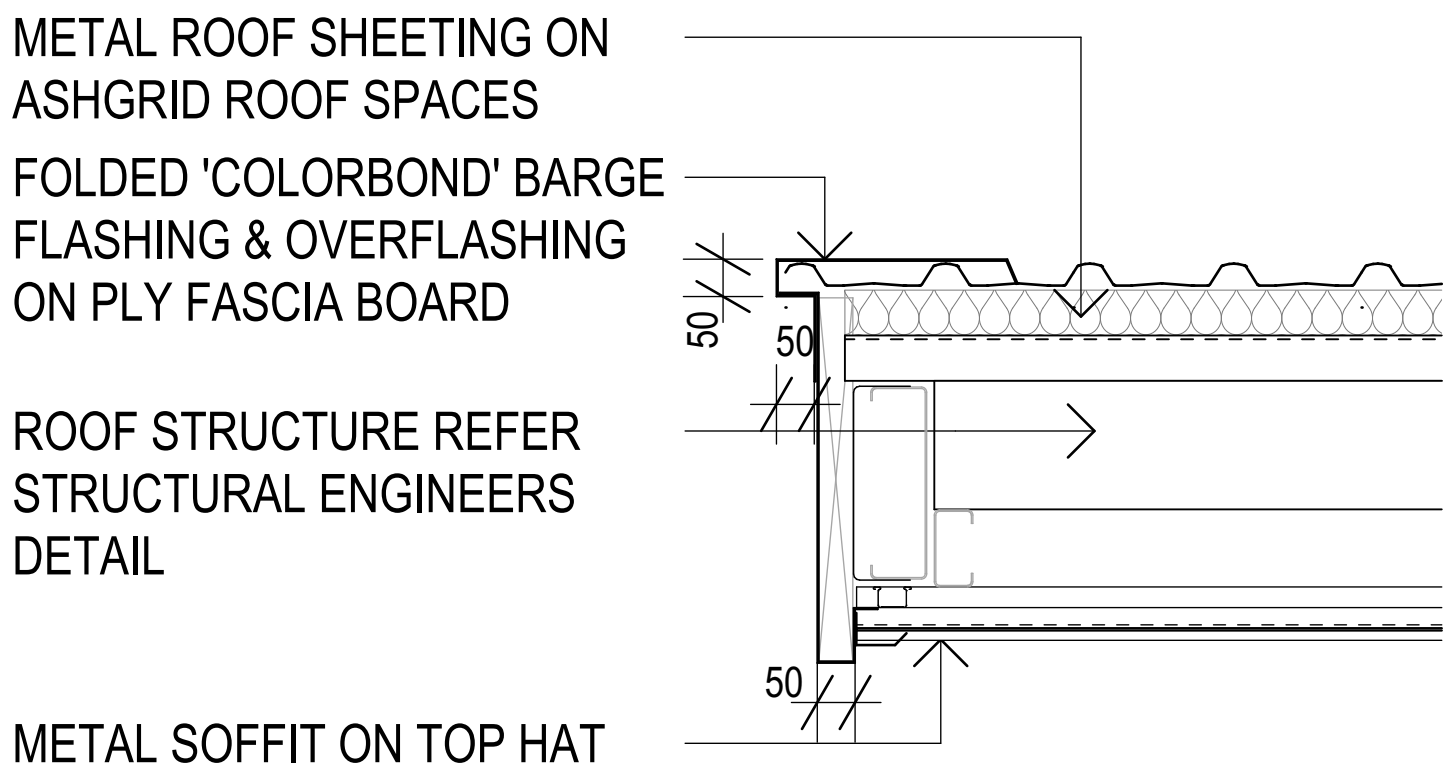
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NSW 8371 QLD 3647
NSW 7434 QLD 3108
NSW 7180 QLD 4500

DRAWING	EXTERNAL DOOR & WINDOW SCHEDULE
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PROJECT NUMBER 7068ND01	DIRECTOR JW
DRAWING NUMBER NPS-FTA-B00T-ZZ-DR-A-6001	CHECKED NK REVISION 03



1 **DETAIL SECTION**
TYPICAL FASCIA DETAILS 01
SCALE: 1:10



2 **DETAIL SECTION**
TYPICAL FASCIA DETAILS 02
SCALE: 1:10

150mm @ A1

100

50

50 100 150mm @ A1

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Paul Skelton fraa		NSW 7180	QLD 3108
Ryan Lovetday fraa			QLD 4500

PROJECT CLIENT / PHASE
SCHEMATIC DESIGN
SCHOOL INFRASTRUCTURE
NSW

PROJECT CLIENT / PHASE
NORTHMEAD PUBLIC SCHOOL

ADDRESS
MOXHAMS ROAD,
NORTHMEAD, NSW

TYPICAL FASCIA DETAILS

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any work or making shop drawings.

PROJECT NUMBER

7068ND01

DIRECTOR

JW

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NK

DRAWING NUMBER

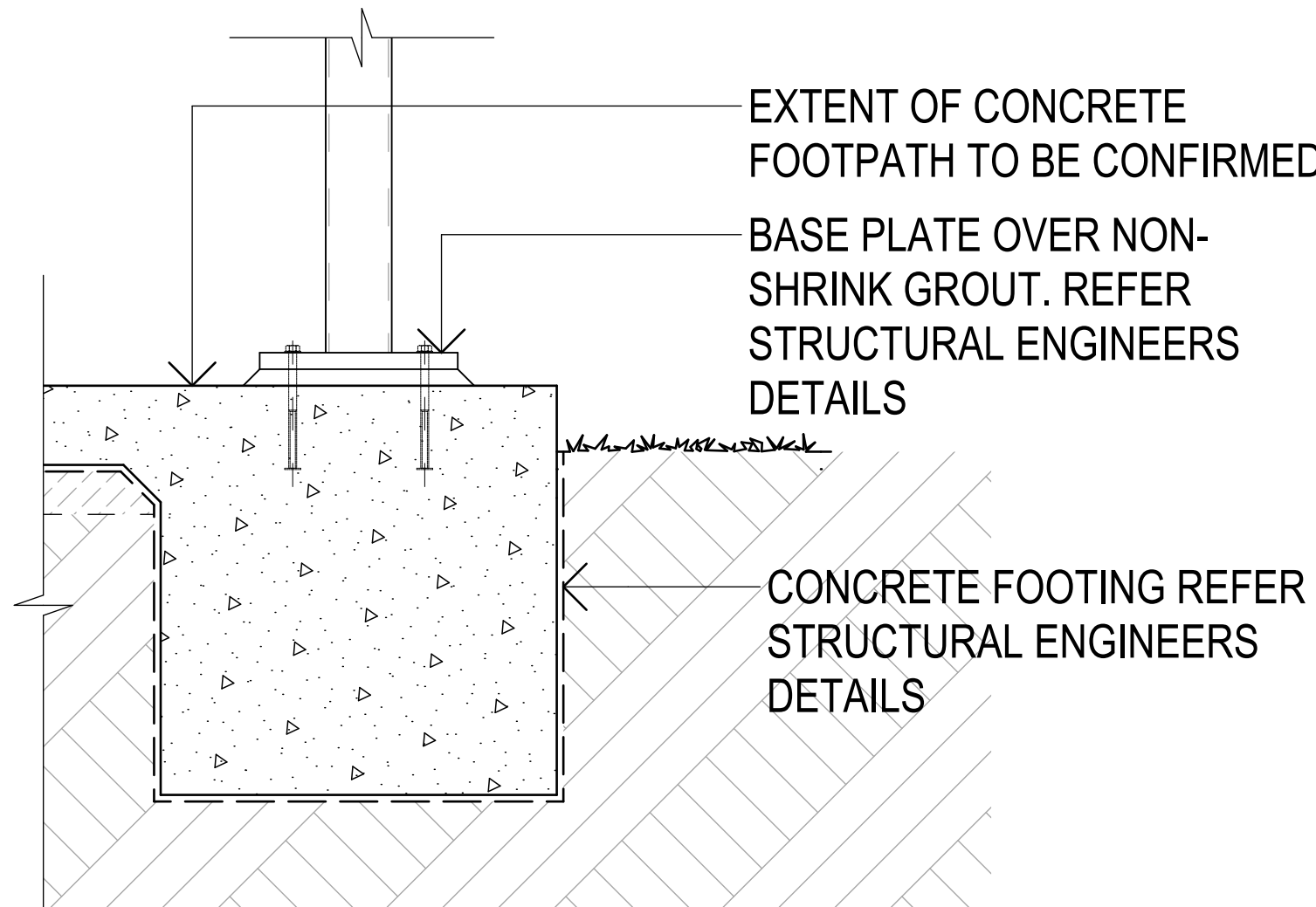
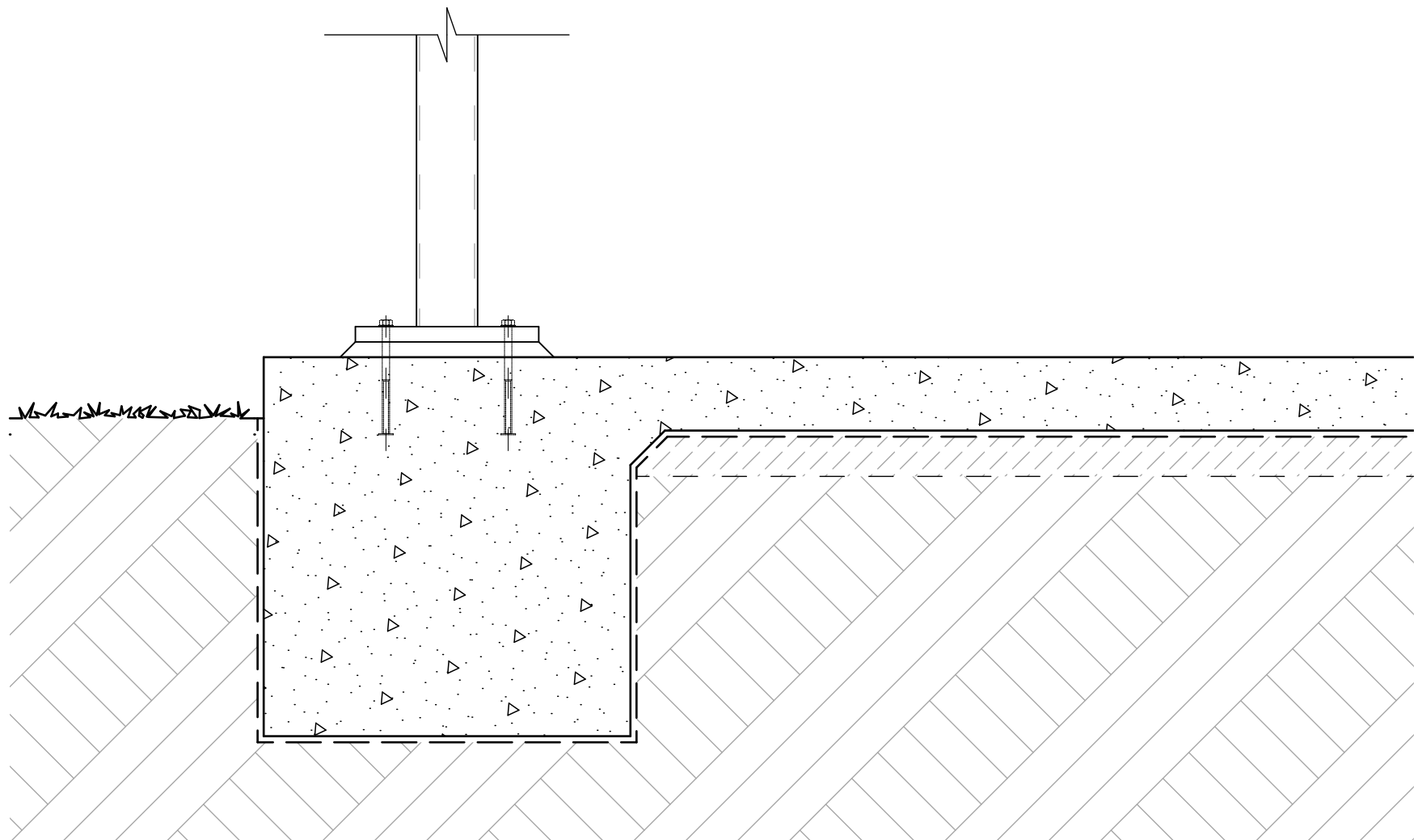
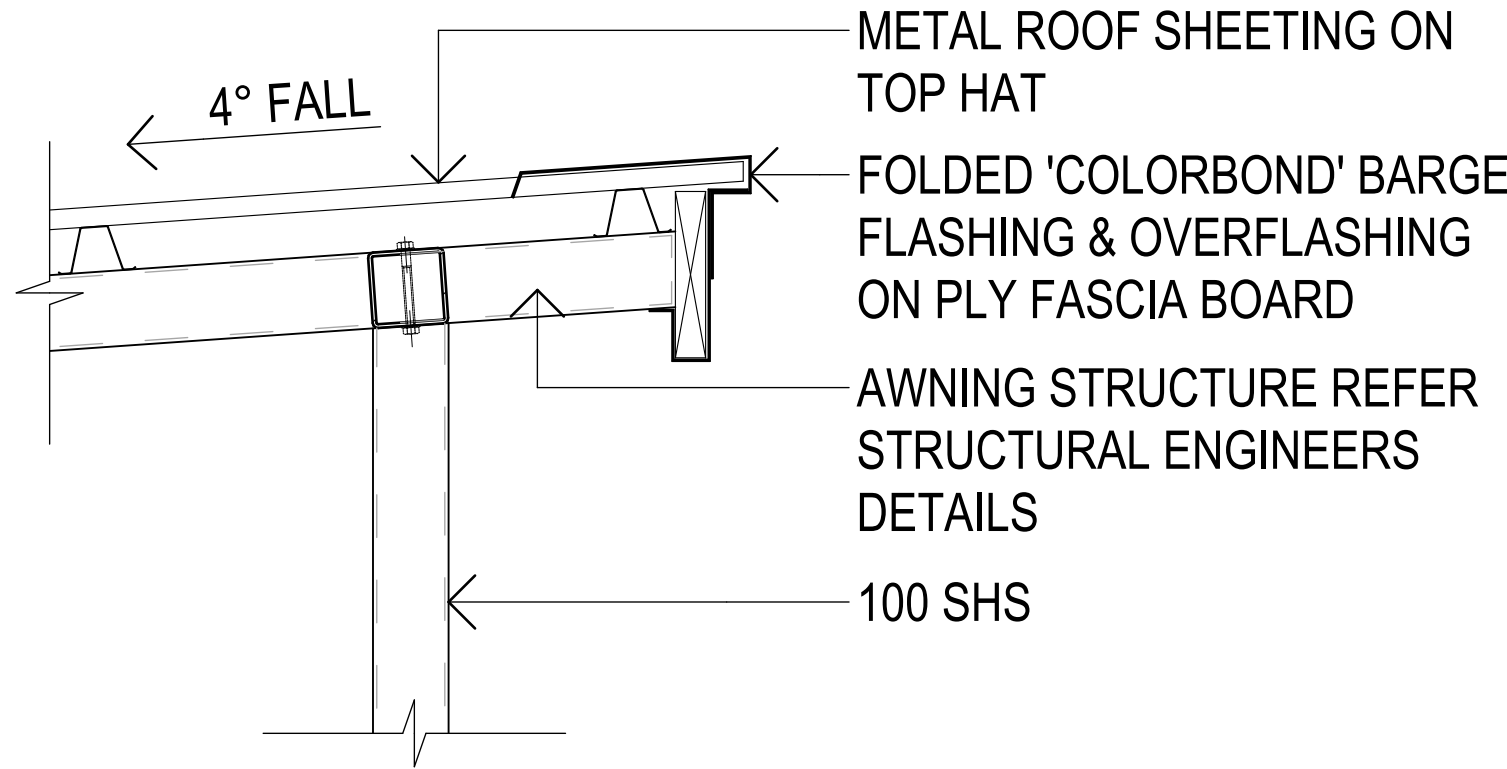
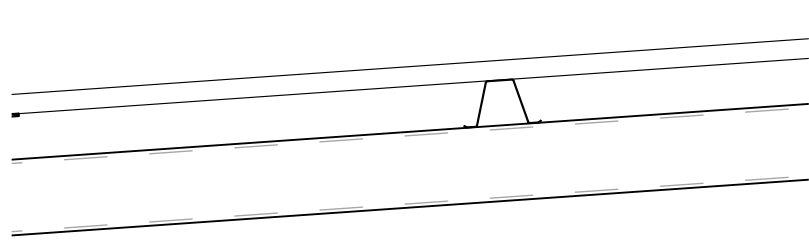
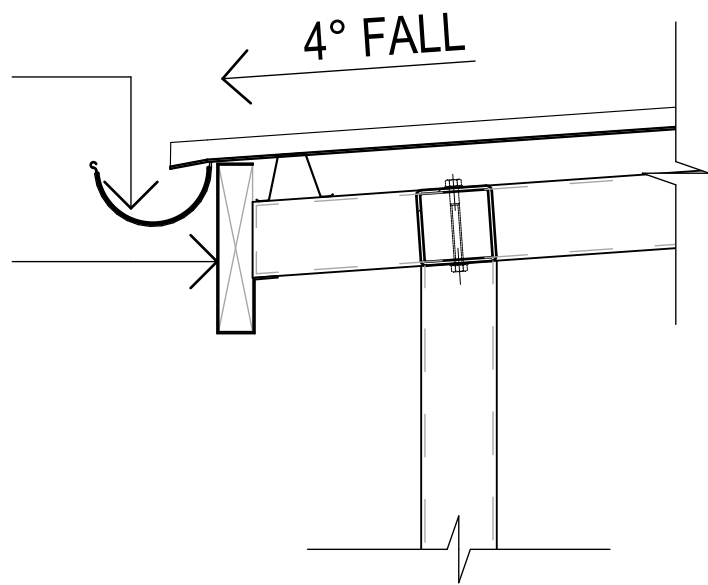
NPS-FTA-B00T-ZZ-DR-A-4901

REVISION

03

EAVES GUTTER TBA ON
SUPPORT BRACKET

FOLDED 'COLORBOND' FASCIA
FLASHING ON PLY FASCIA
BOARD



1 **DETAIL SECTION**
TYPICAL COVERED WALKWAY DETAILS 01
SCALE: 1:10

REV.	DESCRIPTION	DATE	INIT.
03	100% SCHEMATIC DESIGN	19/12/2024	NK
02	95% SCHEMATIC DESIGN	10/12/2024	AK
01	80% SCHEMATIC DESIGN	26/11/2024	AK

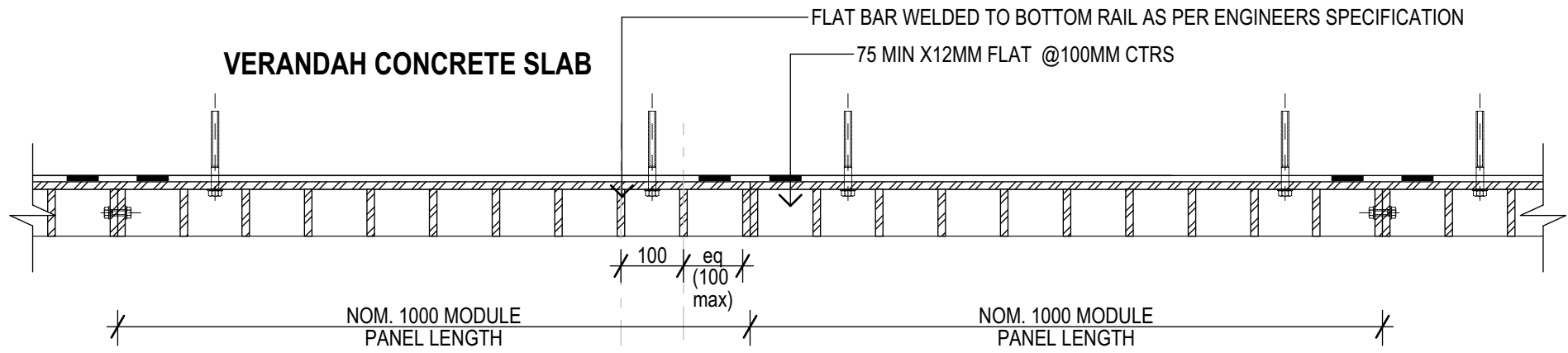
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QLD 4500

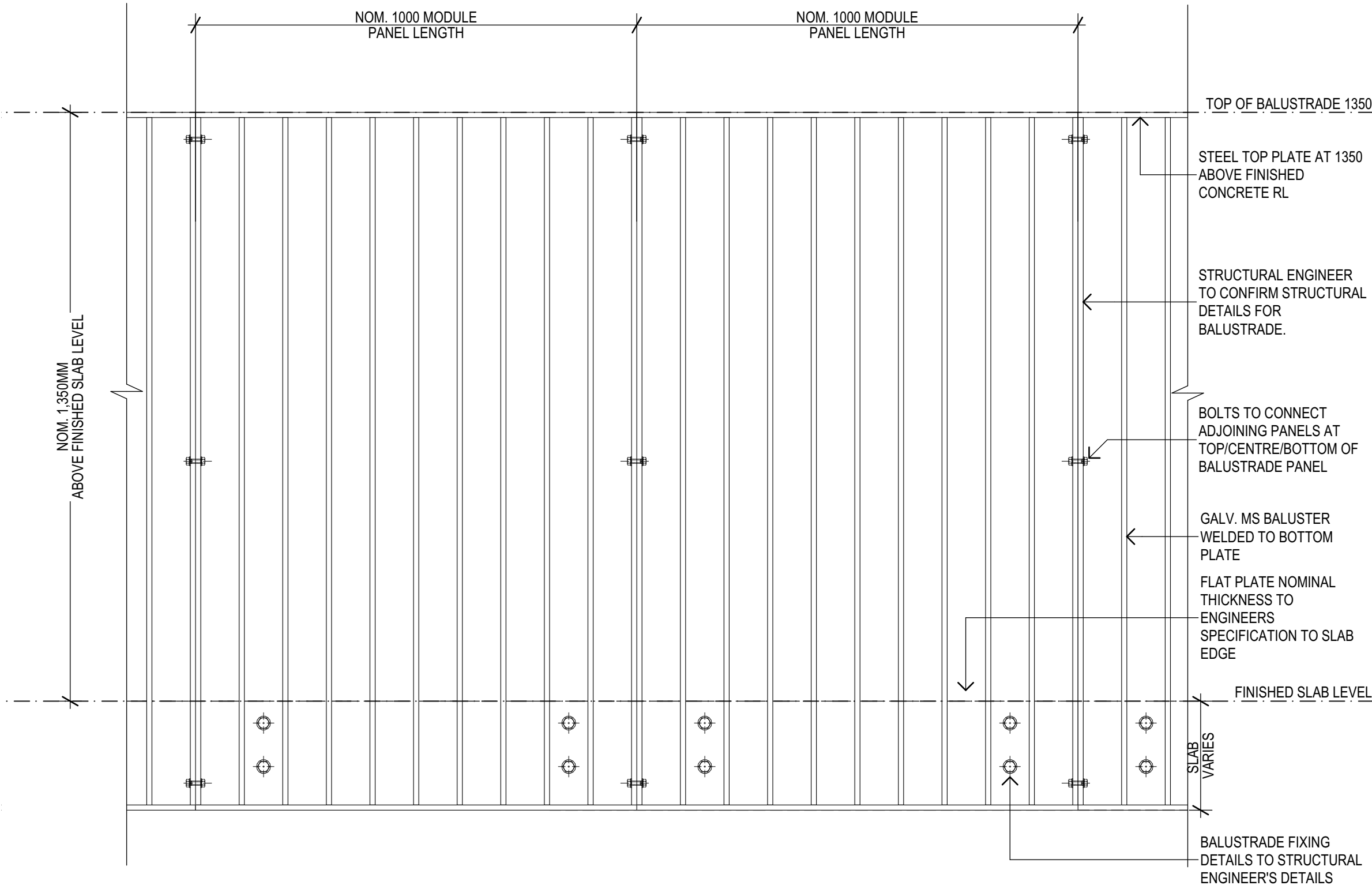
SCHEMATIC DESIGN
SCHOOL INFRASTRUCTURE
NSW
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MOXHAMS ROAD,
NORTHMEAD, NSW

COVERED WALKWAY DETAILS
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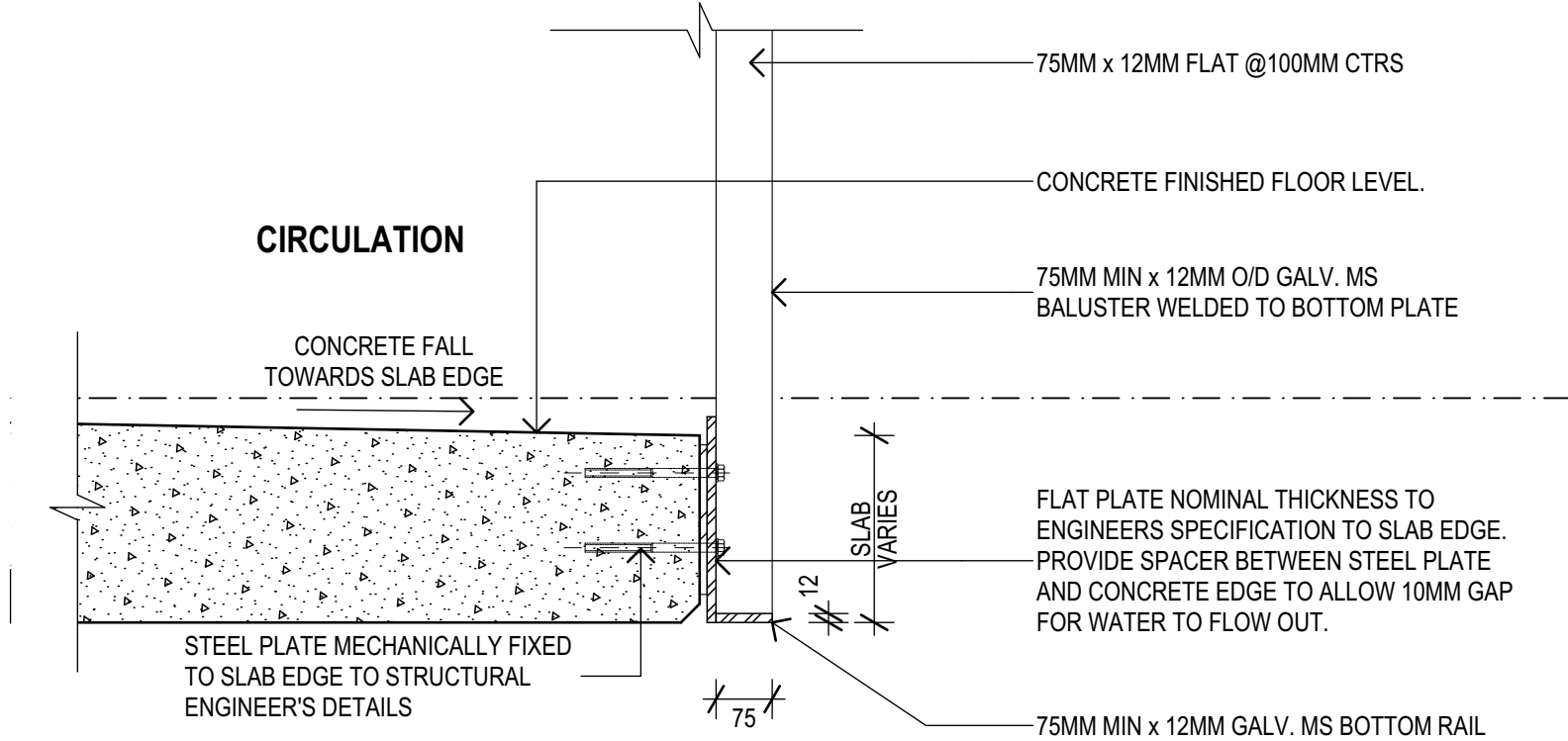
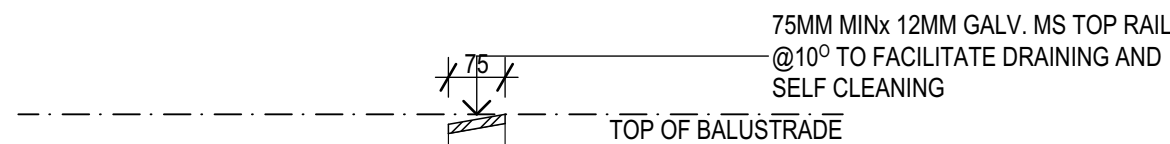
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DRAWING NUMBER **NPS-FTA-B00T-ZZ-DR-A-4801** REVISION **03**



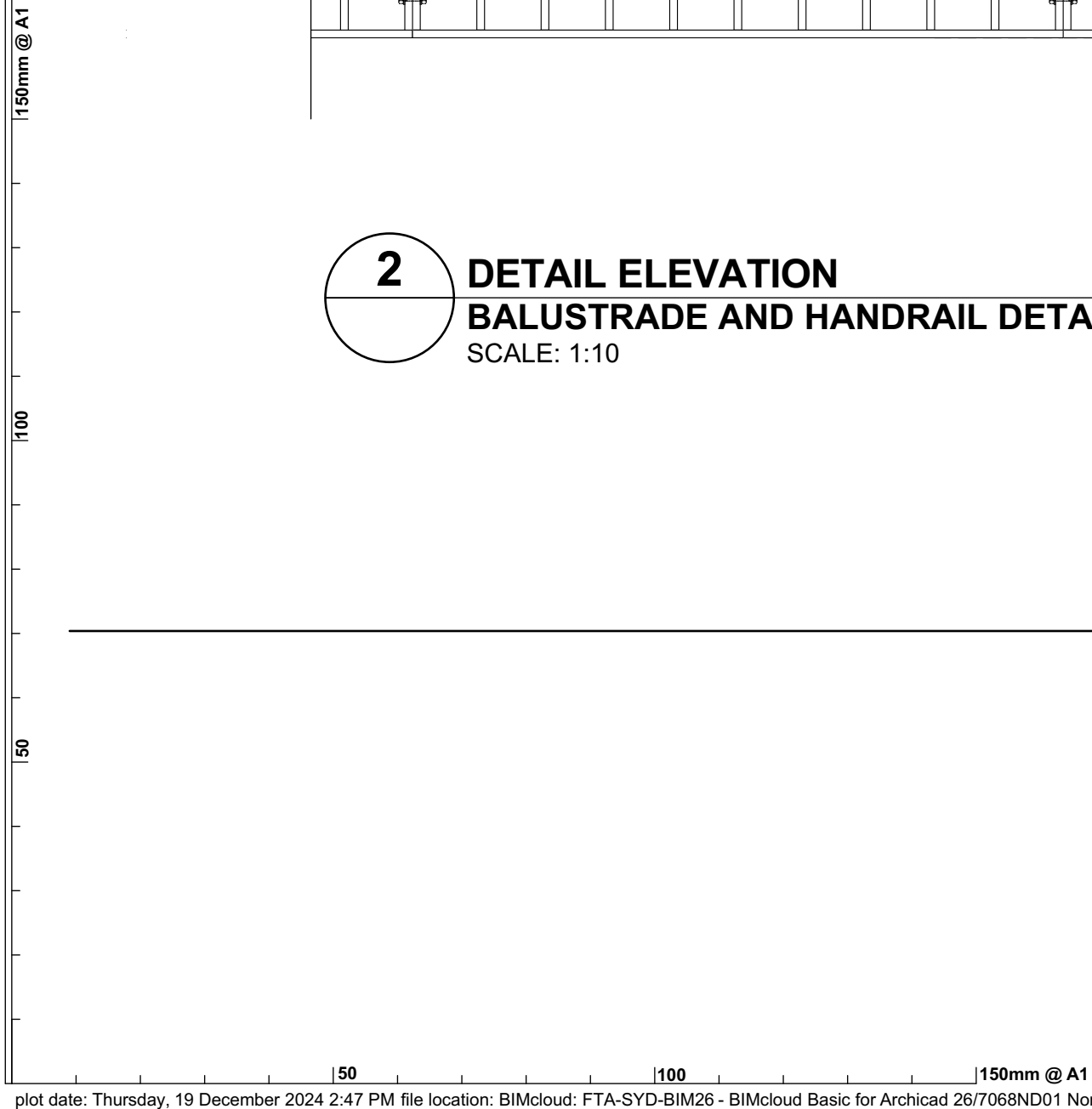
1 **DETAIL PLAN**
BALUSTRADE AND HANDRAIL DETAILS
SCALE: 1:10



2 **DETAIL ELEVATION**
BALUSTRADE AND HANDRAIL DETAILS
SCALE: 1:10



3 **DETAIL SECTION**
BALUSTRADE AND HANDRAIL DETAILS
SCALE: 1:10



REV.	DESCRIPTION	DATE	INIT.
02	100% SCHEMATIC DESIGN	19/12/2024	NK
01	95% SCHEMATIC DESIGN	10/12/2024	AK

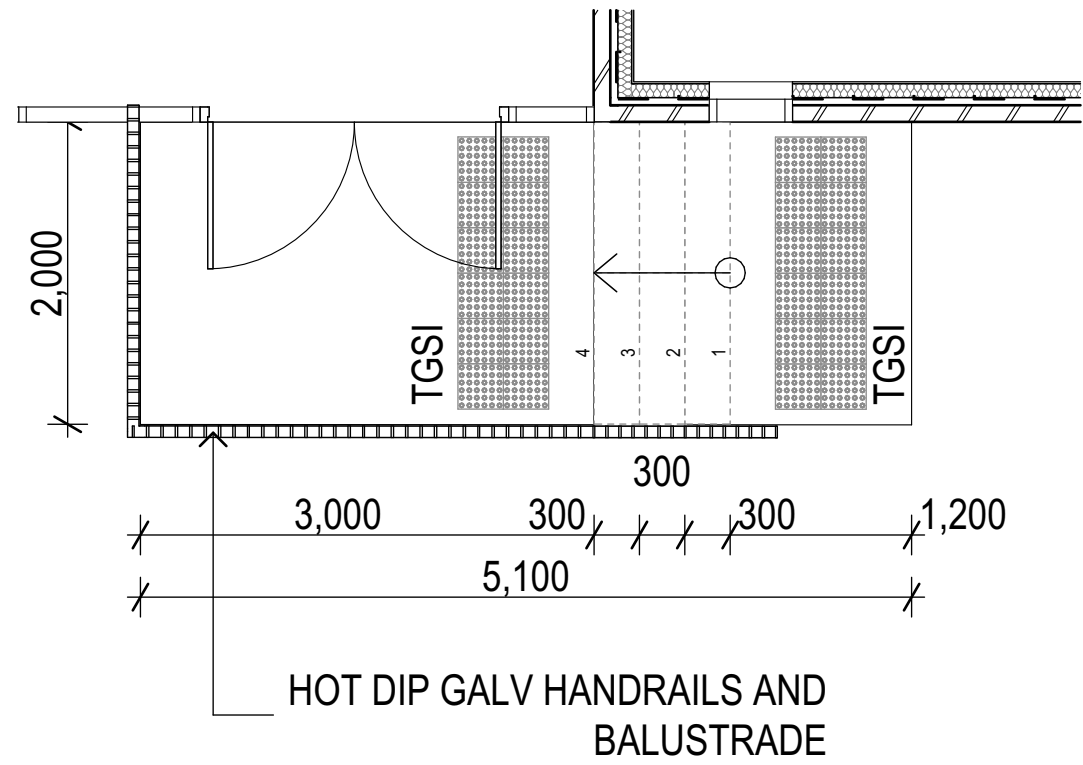
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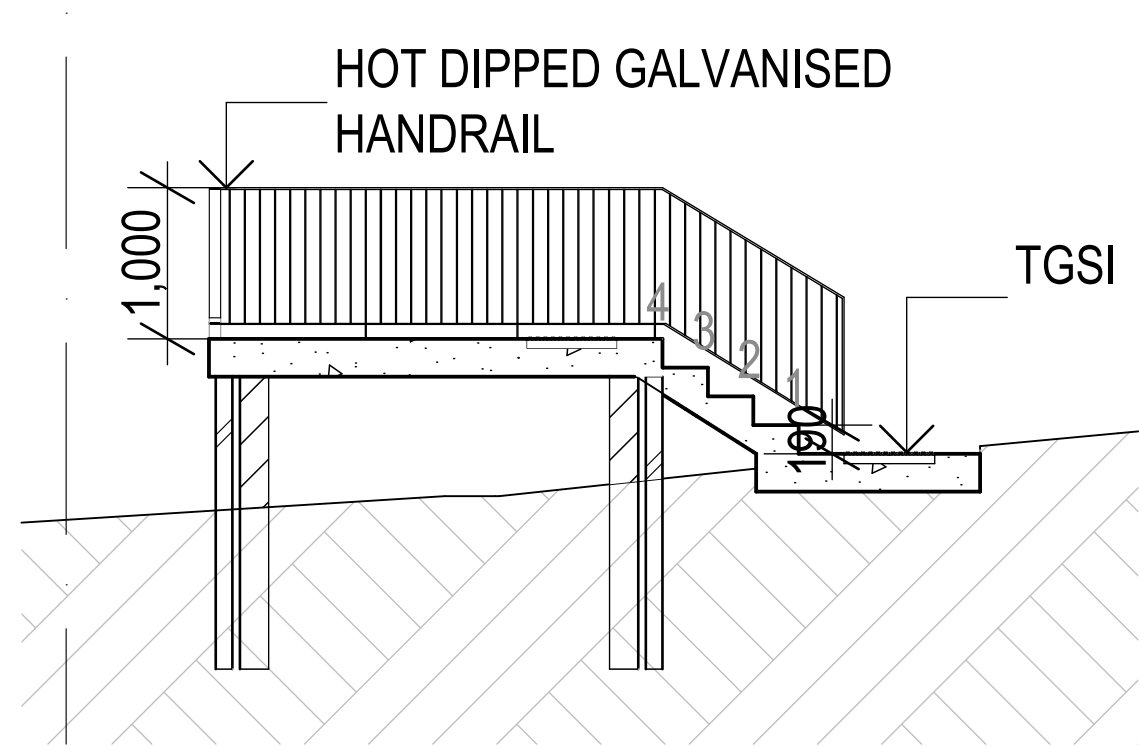
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MOXHAMS ROAD,
NORTHMEAD, NSW

BALUSTRADE AND HANDRAIL DETAILS
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DRAWING NUMBER **NPS-FTA-B00T-ZZ-DR-A-4501** REVISION **02**



1 **DETAIL SECTION**
STAIR PLAN DETAIL
SCALE: 1:50



2 **DETAIL SECTION**
STAIR SECTION DETAIL
SCALE: 1:50

150mm @ A1

100

50

150mm @ A1

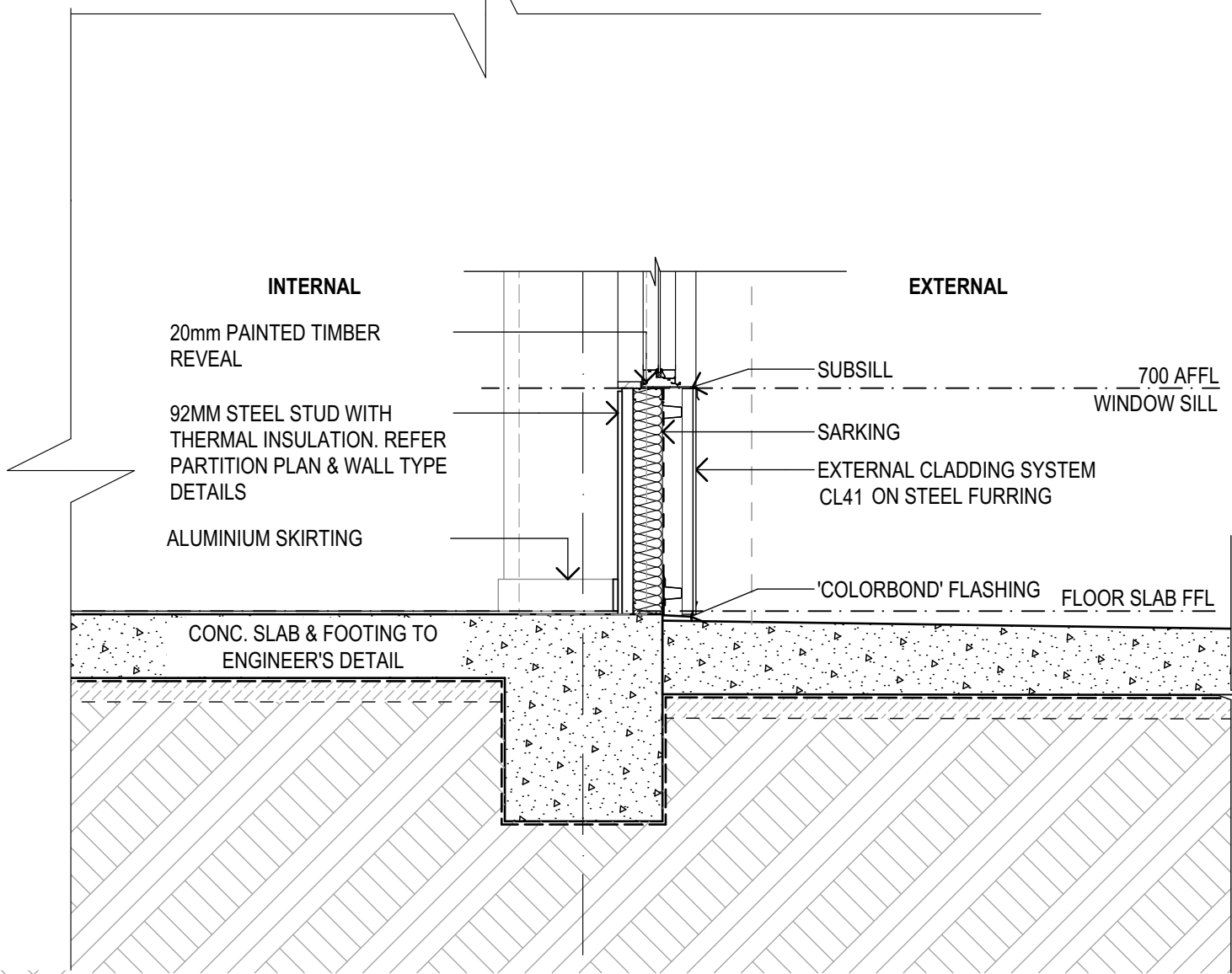
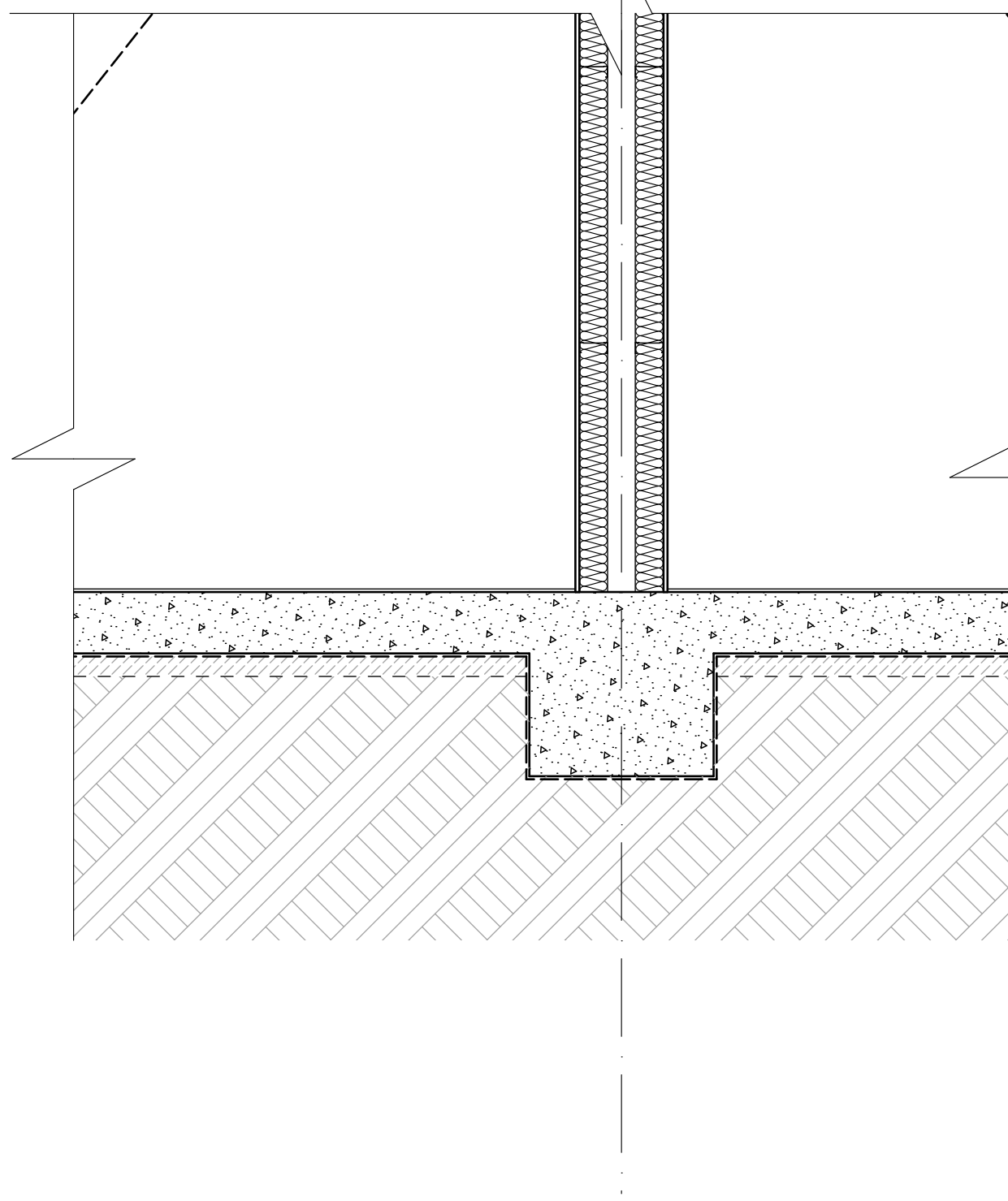
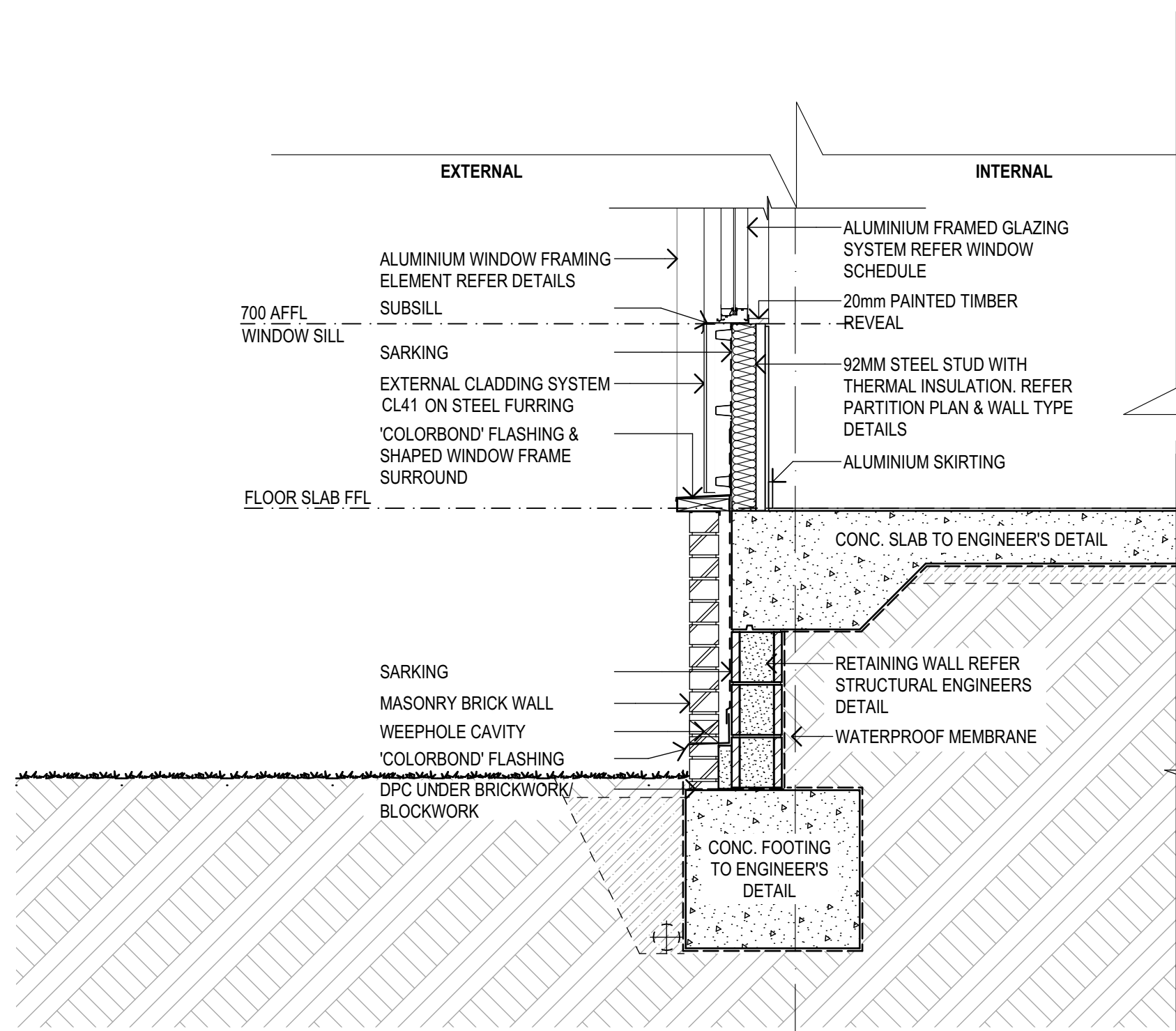
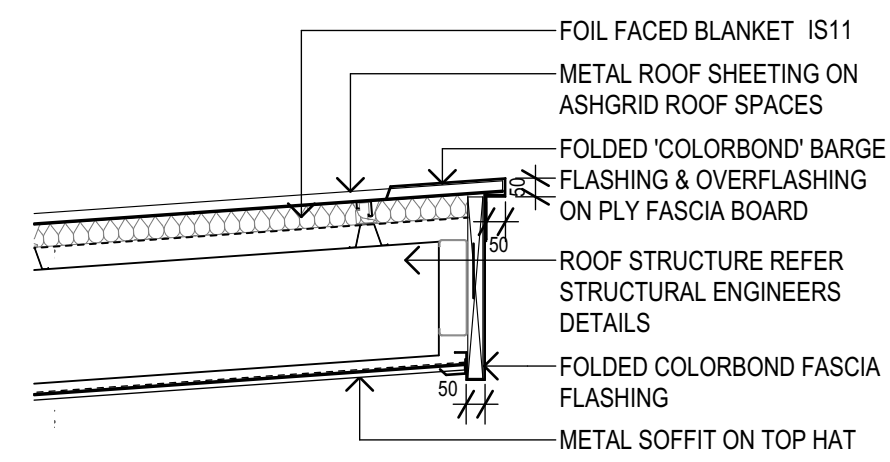
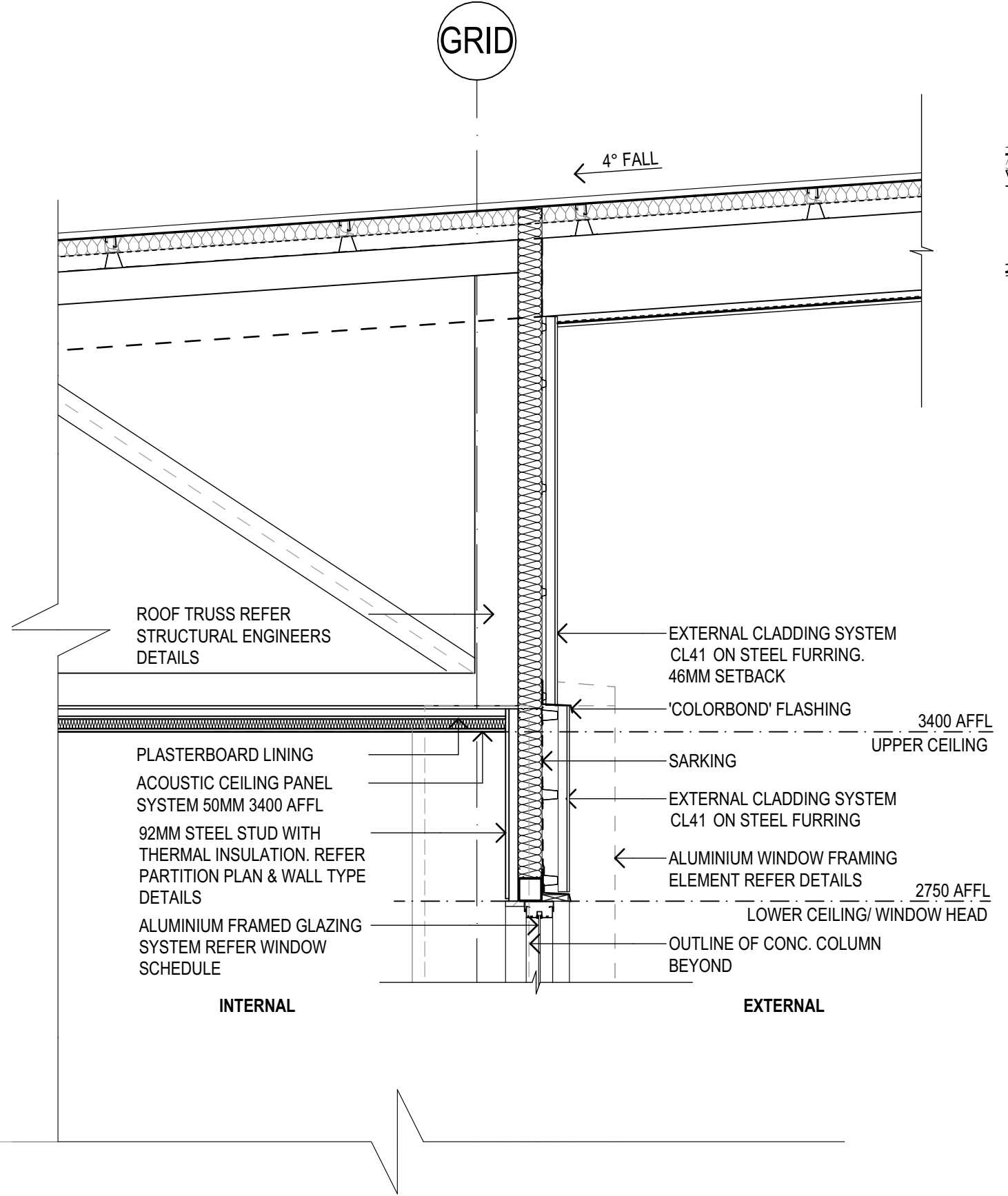
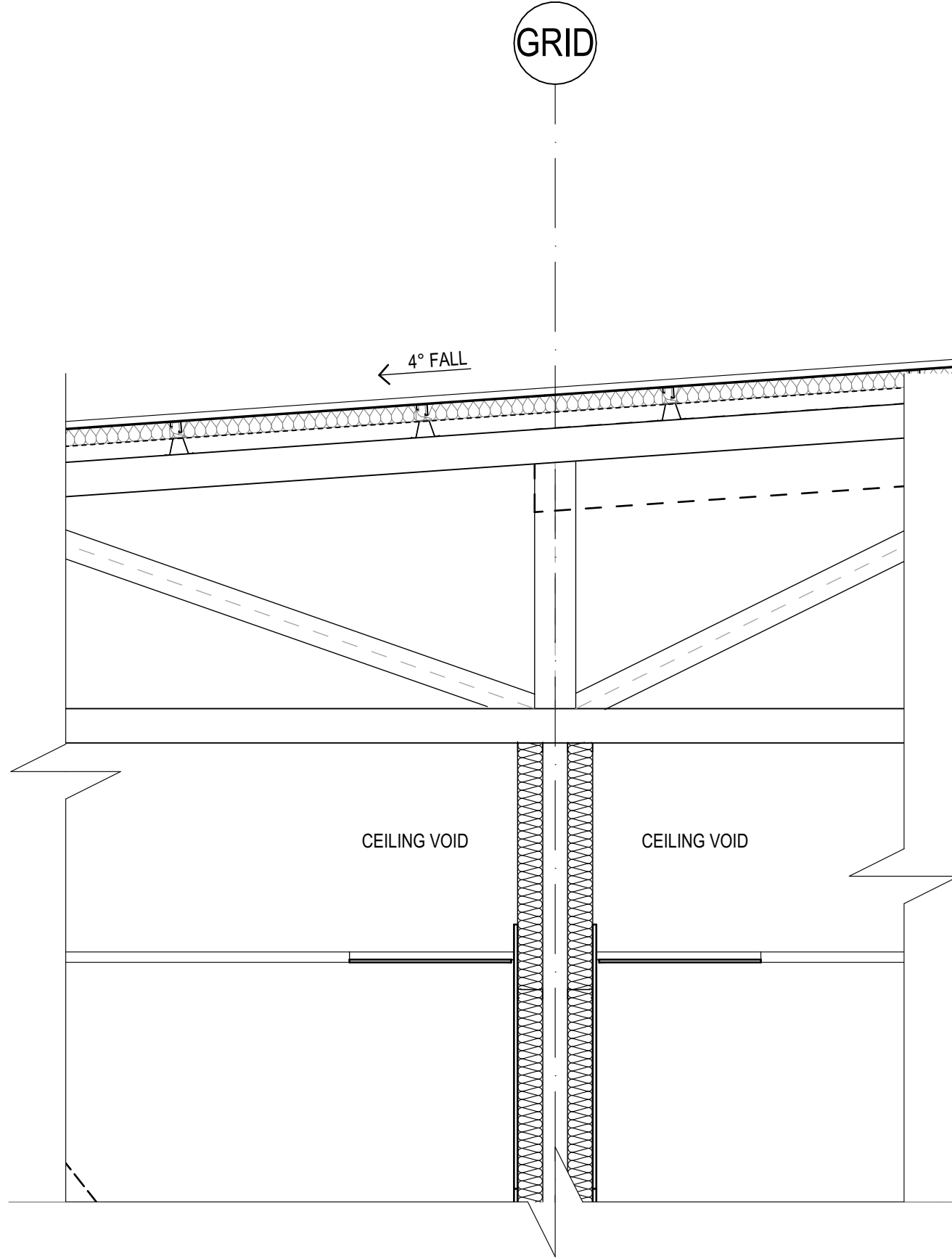
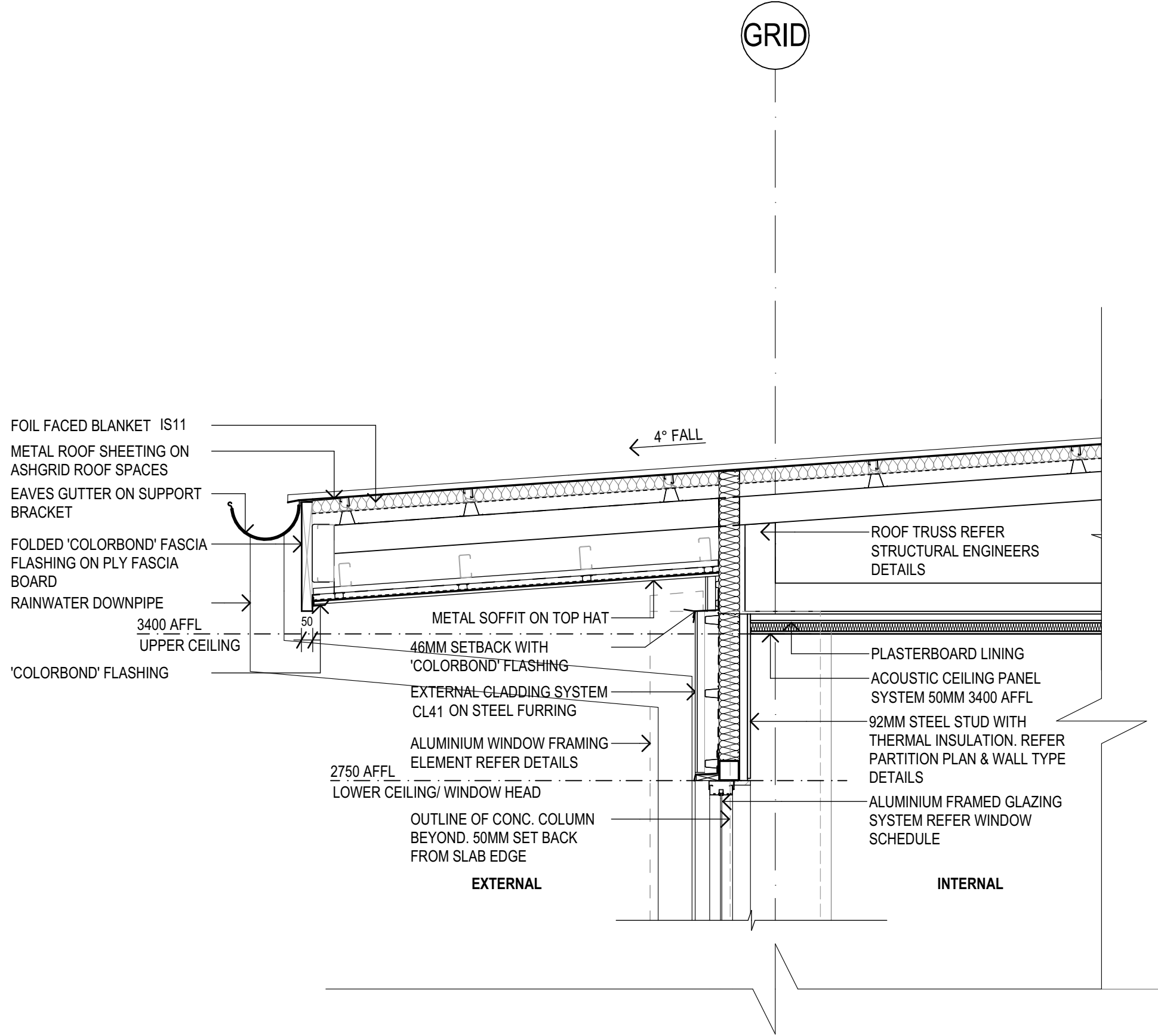
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QLD 4500

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NORTHMEAD, NSW

BUILDING T - STAIR AND RAMP
DETAILS
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SCHEMATIC DESIGN
SCHOOL INFRASTRUCTURE
NSW

NORTHMEAD PUBLIC SCHOOL

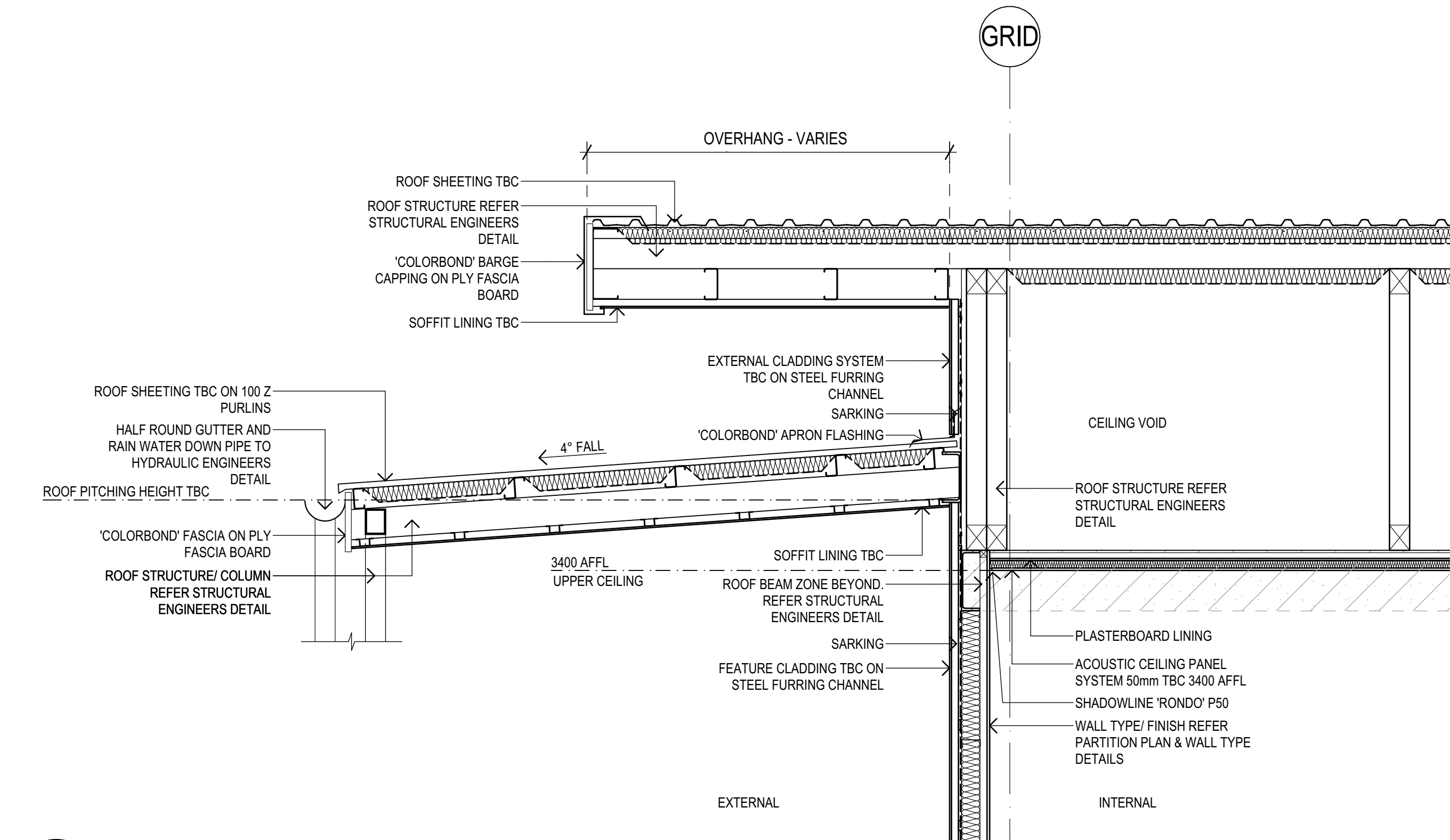
MOXHAMS ROAD,
NORTHMEAD, NSW

BUILDING T - WALL SECTIONS
02

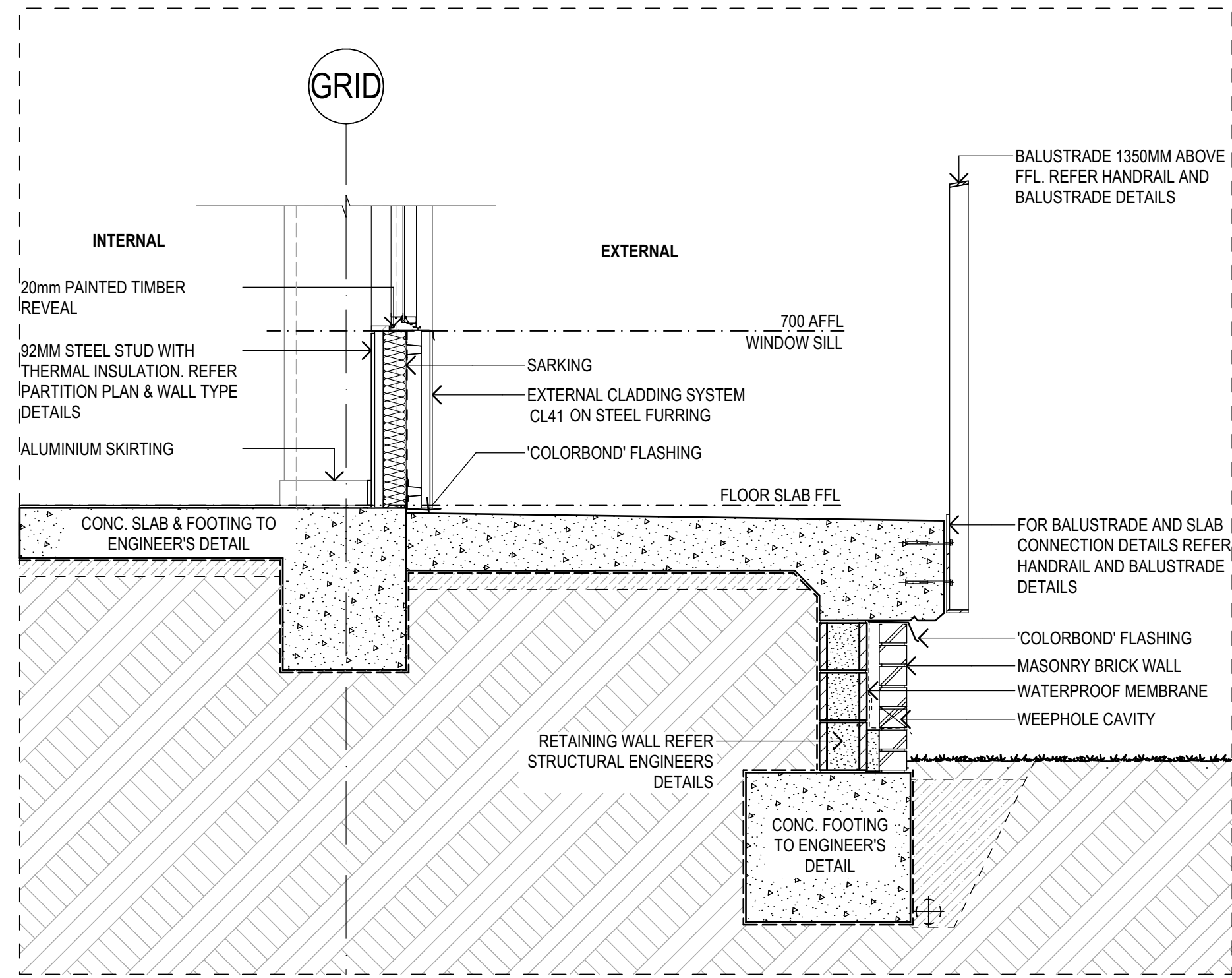
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PROJECT NUMBER **7068ND01** DIRECTOR **JW** CHECKED **NK**

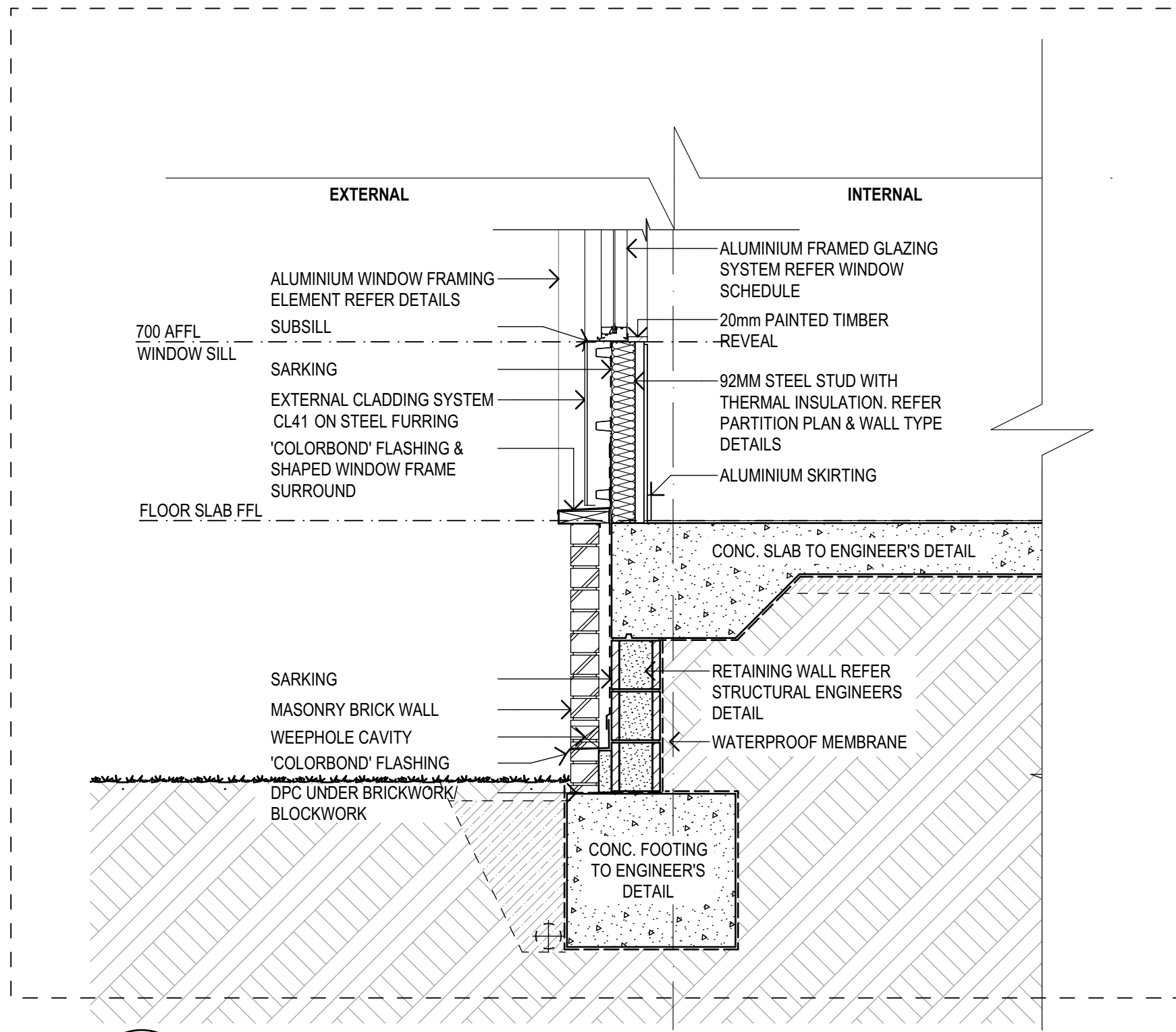
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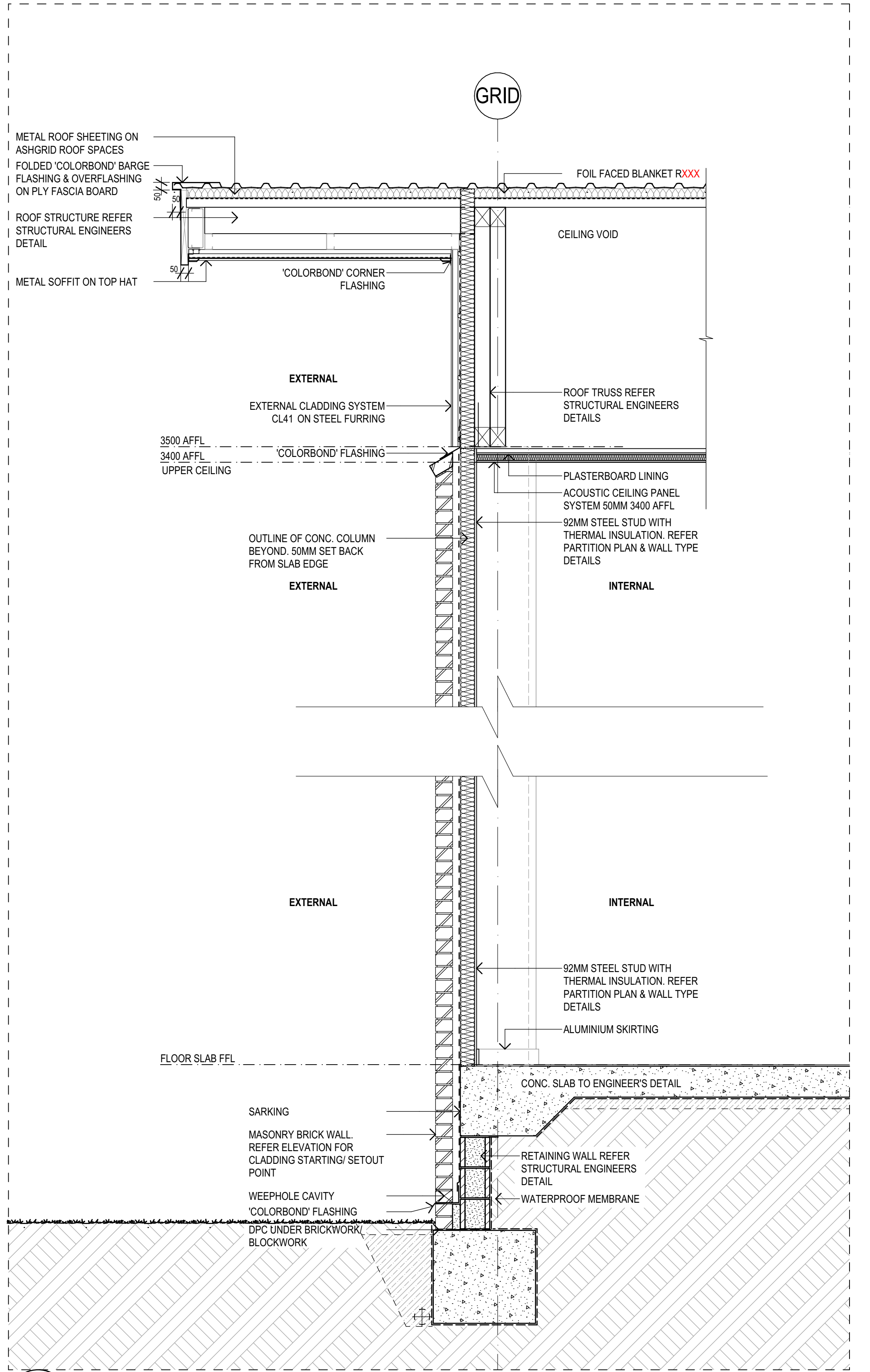
6 **DETAIL SECTION**
END WALL DETAIN IN JUCTION WITH COVERED AWNING
SCALE: 1:20



2 **DETAIL SECTION**
VERANDAH DETAIL SECTION
SCALE: 1:20



5 **DETAIL SECTION**
FC SIDE WALL SECTION
SCALE: 1:20



4 **DETAIL SECTION**
BRICK SIDE WALL SECTION
SCALE: 1:20

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QLD 3313
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NSW 7180 QLD 4500

VIC 18804

SCHEMATIC DESIGN
SCHOOL INFRASTRUCTURE
NSW

NORTHMEAD PUBLIC SCHOOL

MOXHAMS ROAD,
NORTHMEAD, NSW

BUILDING T - WALL SECTIONS
01

Figured dimensions take precedence over
scale dimensions. Contractors must verify
all dimensions on site before commencing
any work or making shop drawings.

PROJECT NUMBER

7068ND01

DIRECTOR

JW

CHECKED

NK

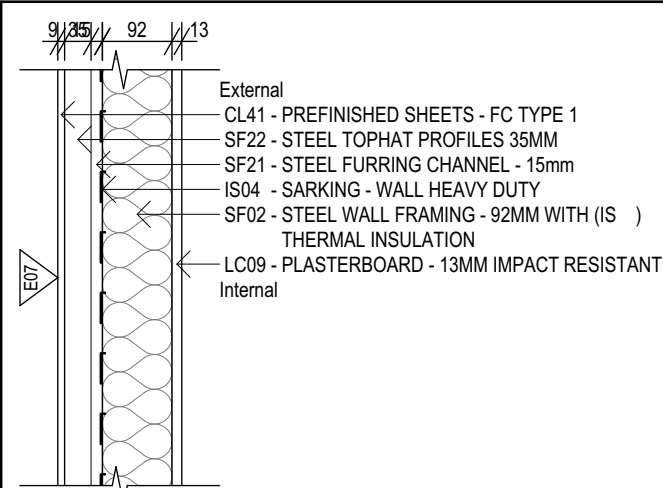
DRAWING NUMBER

NPS-FTA-B00T-ZZ-DR-A-4201

REVISION

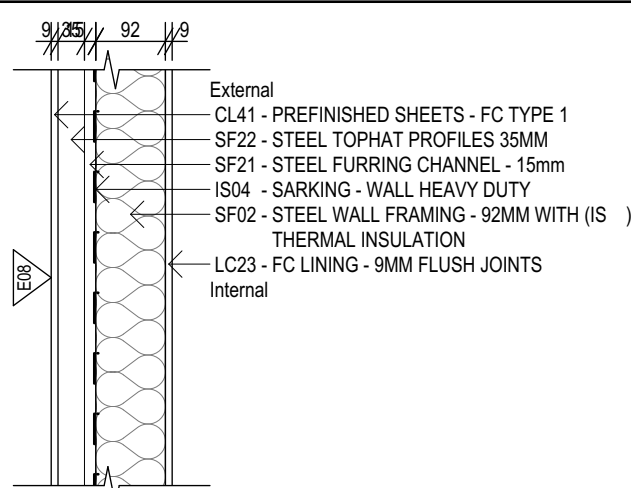
04

EXTERNAL WALL TYPES



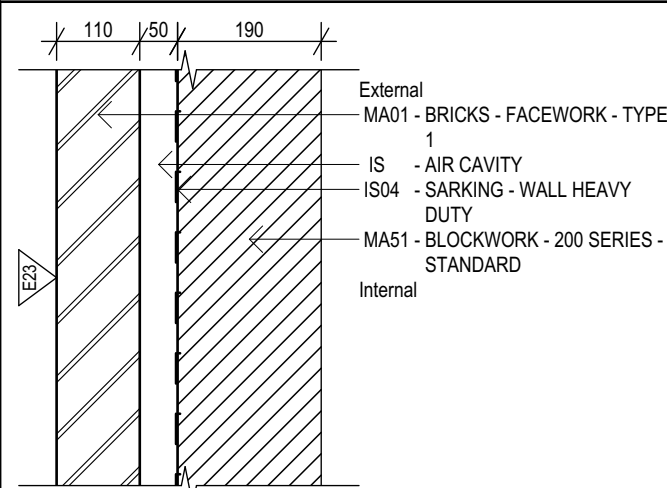
E07	Fire Rating	-
	R-Value	-
	Rw + Ctr	-
	Smoke Rating	False

NOTE:



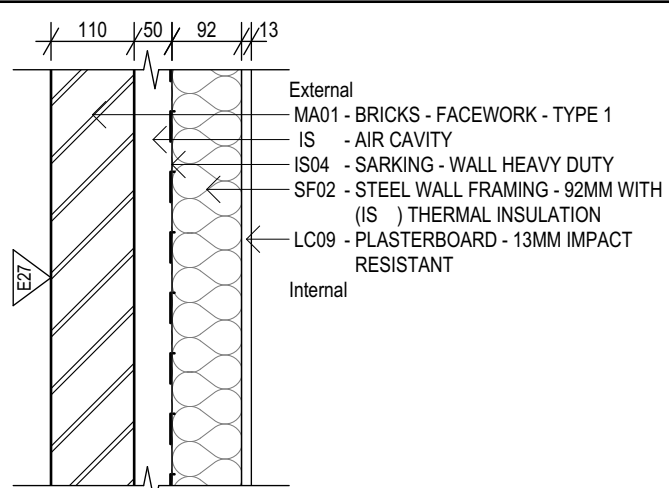
E08	Fire Rating	-
	R-Value	-
	Rw + Ctr	-
	Smoke Rating	False

NOTE:



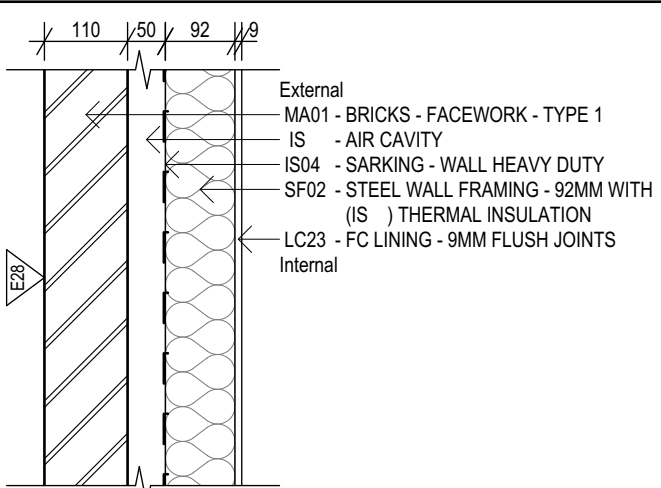
E23	Fire Rating	-
	R-Value	-
	Rw + Ctr	-
	Smoke Rating	False

NOTE:



E27	Fire Rating	-
	R-Value	-
	Rw + Ctr	-
	Smoke Rating	False

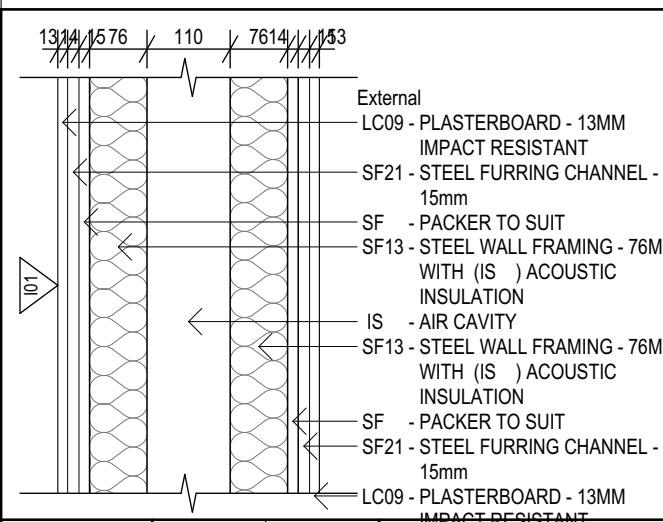
NOTE:



E28	Fire Rating	-
	R-Value	-
	Rw + Ctr	-
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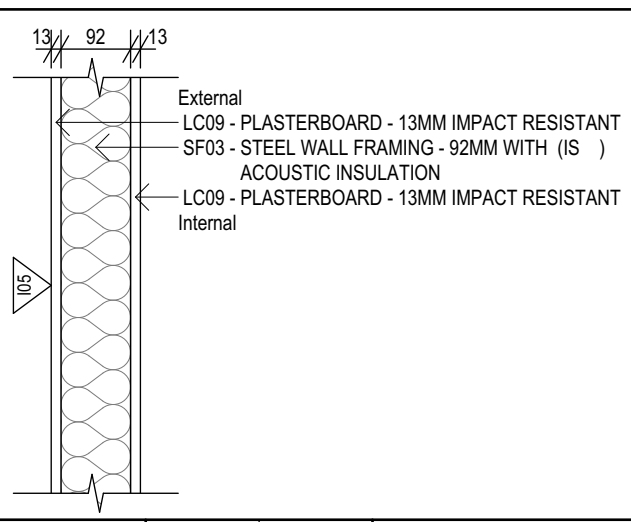
NOTE:

INTERNAL WALL TYPES



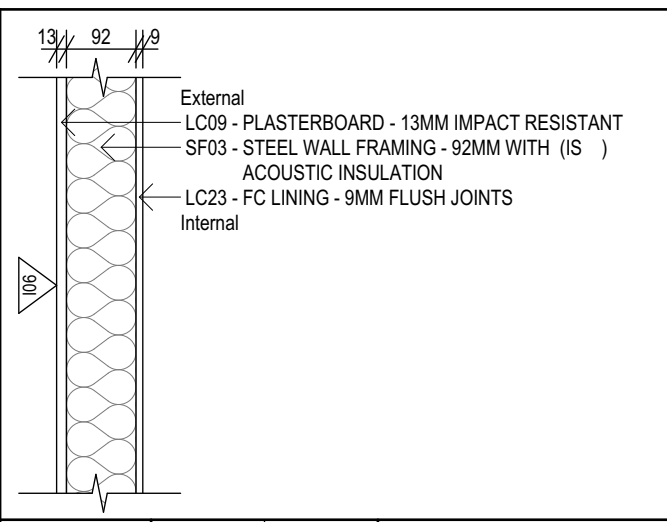
I01	Fire Rating	-	Int
	R-Value	-	
	Rw + Ctr	-	
	Smoke Rating	False	

NOTE



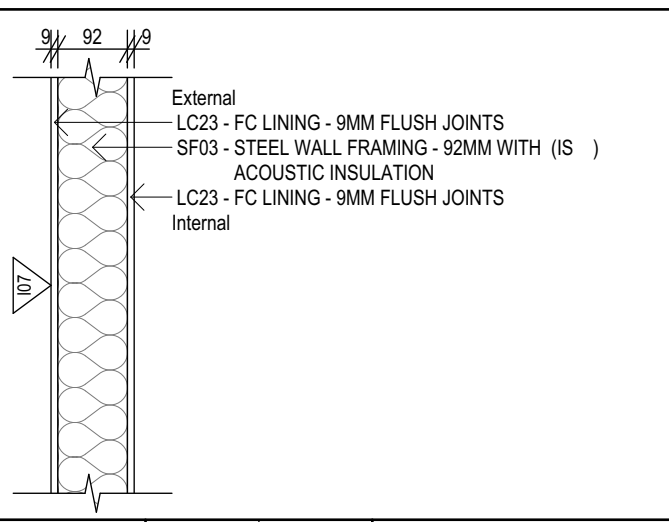
105	Fire Rating	-
	R-Value	-
	Rw + Ctr	-
	Smoke Rating	False

NOTE:



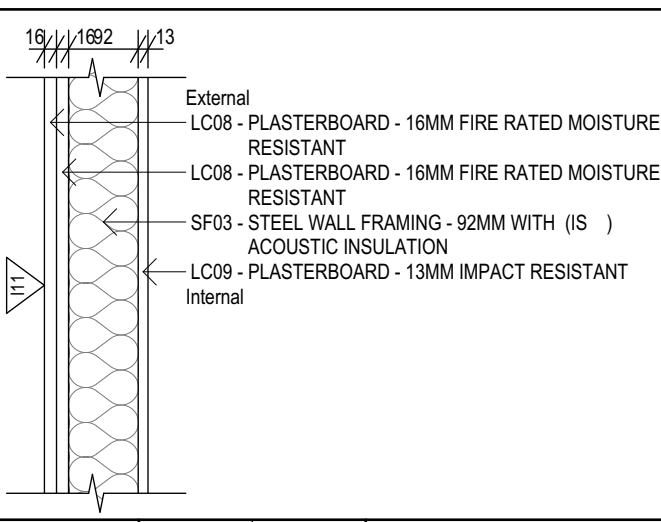
106	Fire Rating	-
	R-Value	-
	Rw + Ctr	-
	Smoke Rating	False

NOTE:



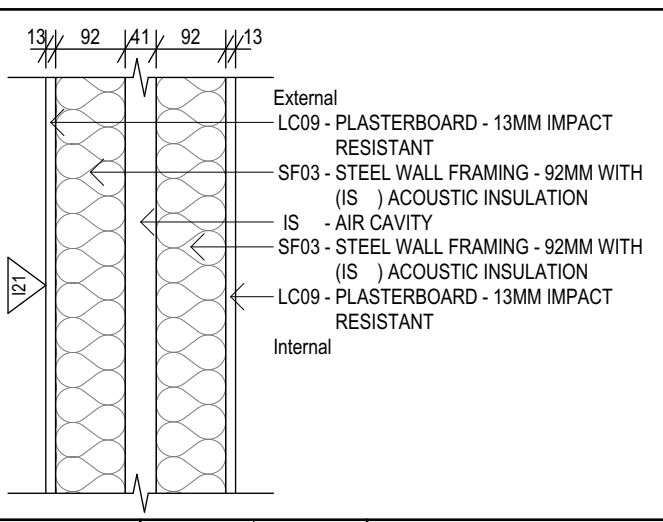
107	Fire Rating	-
	R-Value	-
	Rw + Ctr	-
	Smoke Rating	False

NOTE:



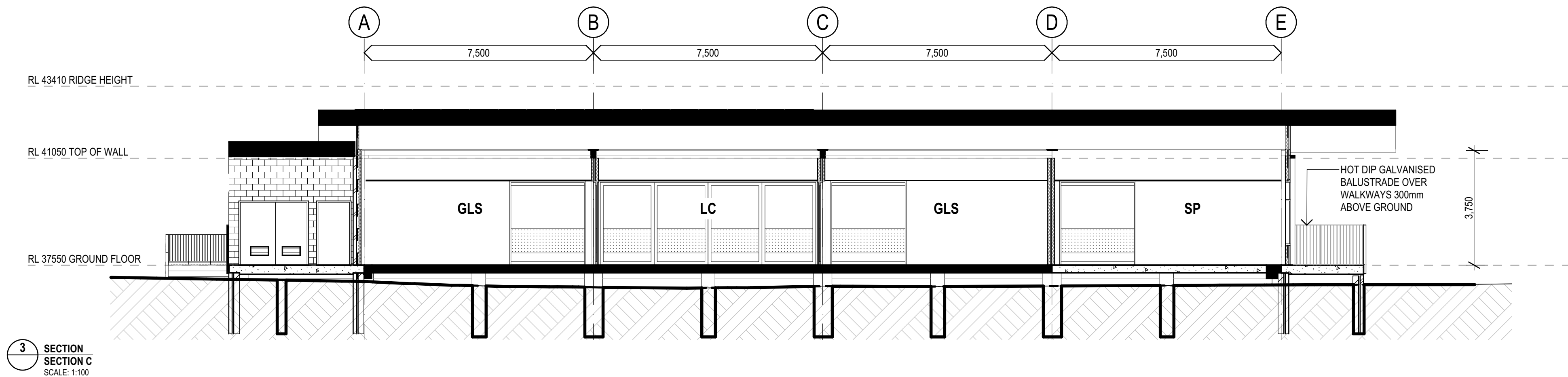
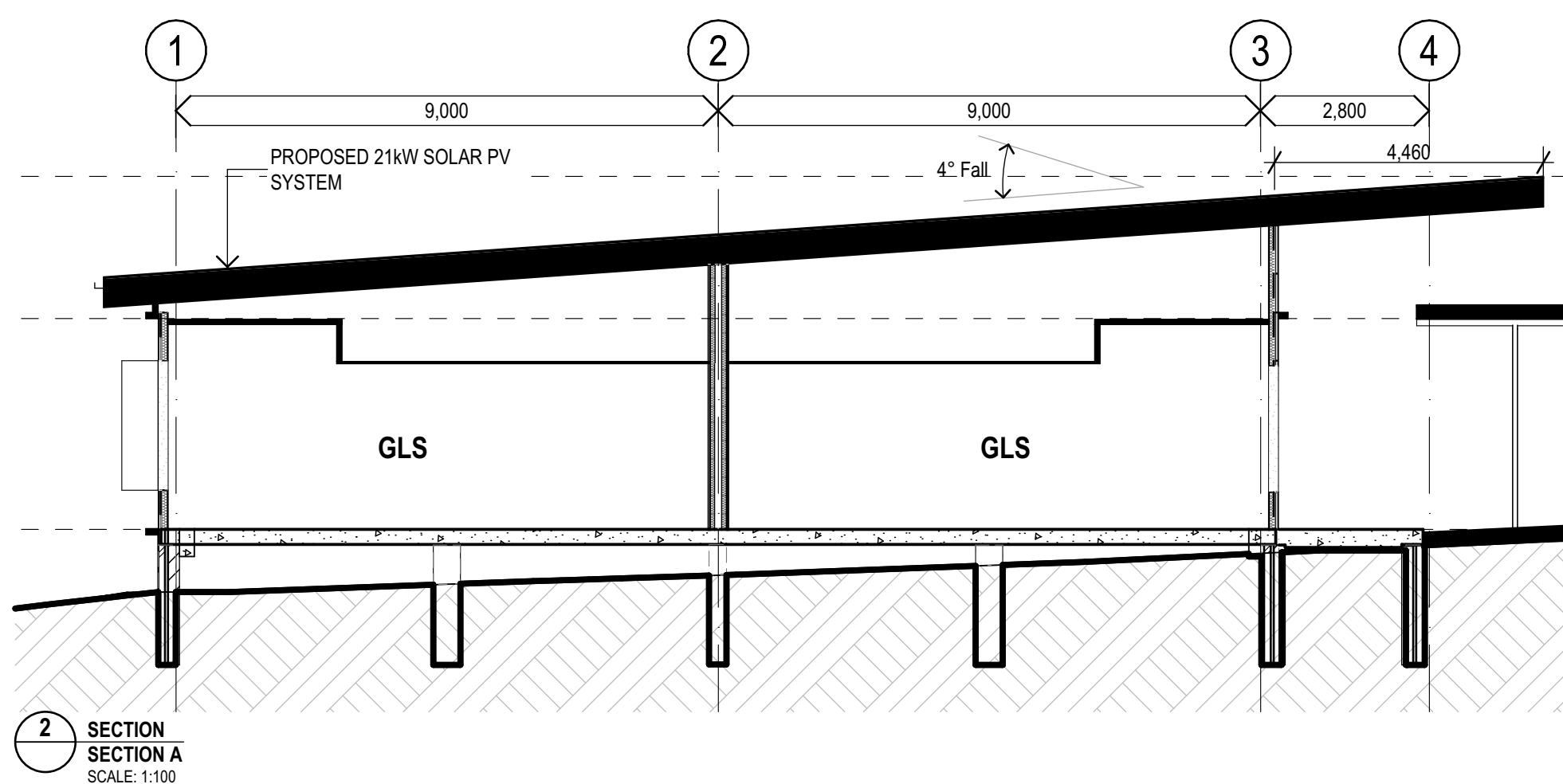
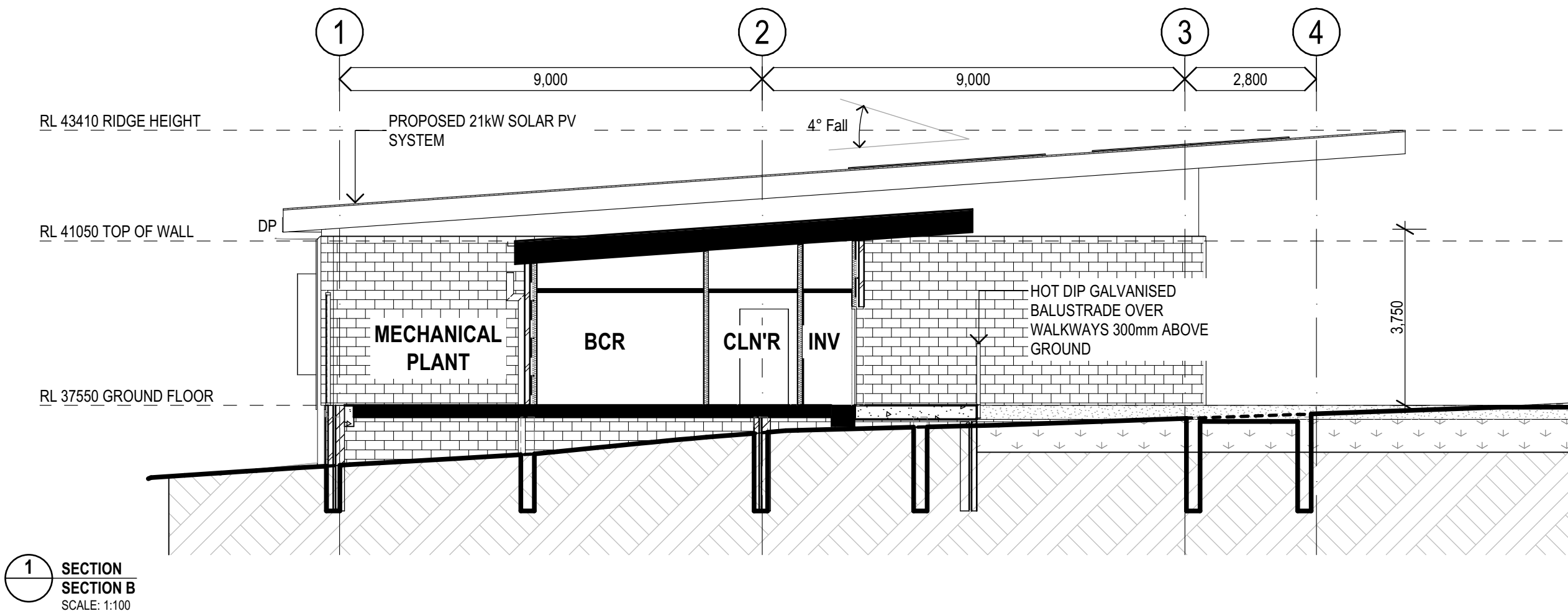
I11	Fire Rating	-
	R-Value	-
	Rw + Ctr	-
	Smoke Rating	False

NOTE:



I21	Fire Rating	-
	R-Value	-
	Rw + Ctr	-
	Smoke Rating	False

NOTE:



150mm @ A1
100
50

150mm @ A1
100
50
plot date: Thursday, 19 December 2024 2:47 PM file location: BIMcloud: FTA-SYD-BIM26 - BIMcloud Basic for Archicad 26/7068ND01 Northmead Public School

REV.	DESCRIPTION	DATE	INIT.
04	100% SCHEMATIC DESIGN	19/12/2024	AK
03	95% SCHEMATIC DESIGN	10/12/2024	AK
02	80% SCHEMATIC DESIGN	26/11/2024	AK
01	SD-01 - 50% SCHEMATIC DESIGN	15/11/2024	AK
P4	100% CONCEPT DESIGN	31/10/2024	NK
P3	80% CONCEPT DESIGN	18/10/2024	AK
P2	FOR INFORMATION	27/09/2024	AK
P1	FOR INFORMATION	20/09/2024	AK

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John Ward nra QLD 3847
Katerina Diacopoulos fra QLD 4528
Paul Skelton fra QLD 1108
Ryan Loveday fra QLD 4500

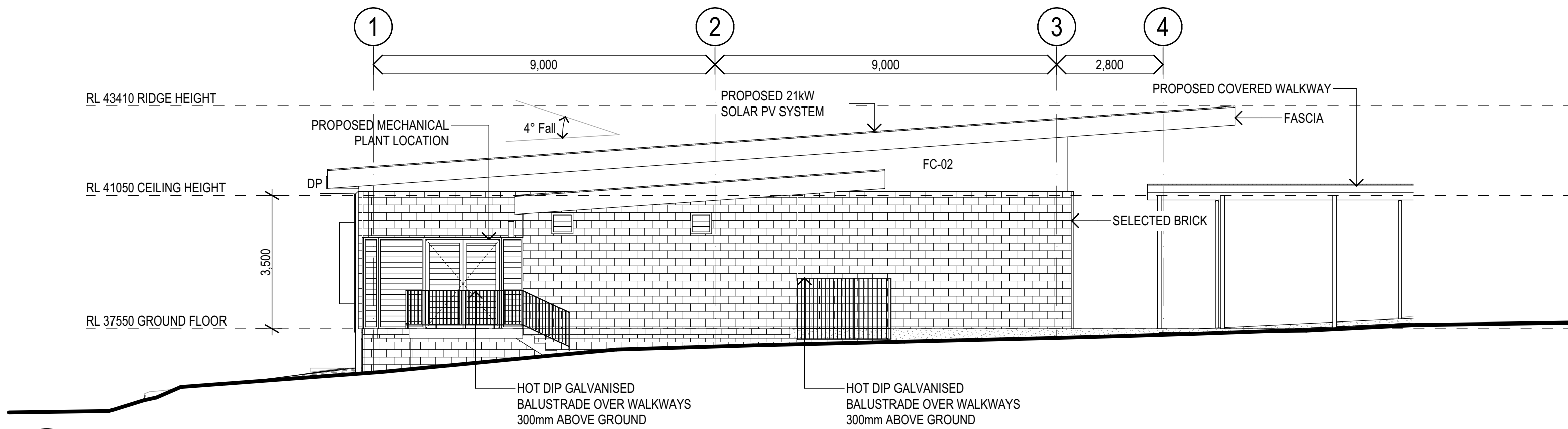
NSW 6855
NSW 8371
NSW 7434
NSW 7180

VIC 18804

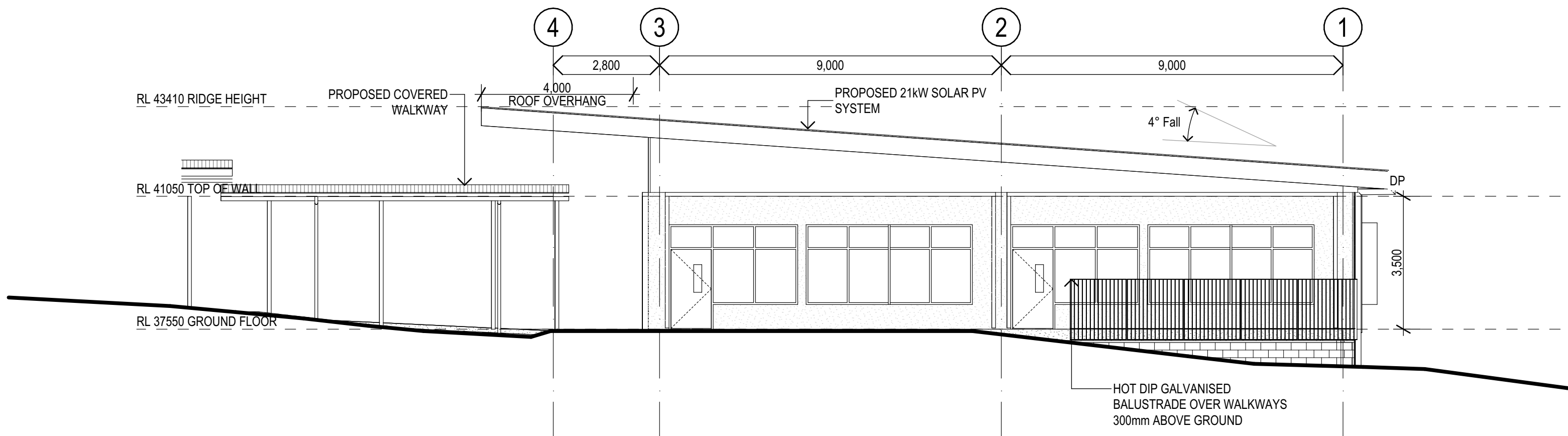
DRAWING PROJECT CLIENT / PHASE
SCHEMATIC DESIGN
SCHOOL INFRASTRUCTURE
NSW
NORTHMEAD PUBLIC SCHOOL
MOXHAMS ROAD,
NORTHMEAD, NSW

DRAWING
BUILDING T - SECTIONS
Figured dimensions take precedence over scale dimensions. Contractors must verify all dimensions on site before commencing any work or making shop drawings.
PROJECT NUMBER
7068ND01
DIRECTOR
JW
CHECKED
NK
DRAWING NUMBER
NPS-FTA-B00T-ZZ-DR-A-3303
REVISION
04

150mm @ A1
100
50



1 ELEVATION
SOUTH ELEVATION
SCALE: 1:100



2 ELEVATION
NORTH ELEVATION
SCALE: 1:100

plot date: Thursday, 19 December 2024 2:47 PM file location: BIMcloud: FTA-SYD-BIM26 - BIMcloud Basic for Archicad 26/7068ND01 Northmead Public School

REV.	DESCRIPTION	DATE	INIT.
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Paul Spikova fraa NSW 7180
Ryan Lovetday fraa QLD 4500

SCHEMATIC DESIGN
SCHOOL INFRASTRUCTURE
NSW

NORTHMEAD PUBLIC SCHOOL

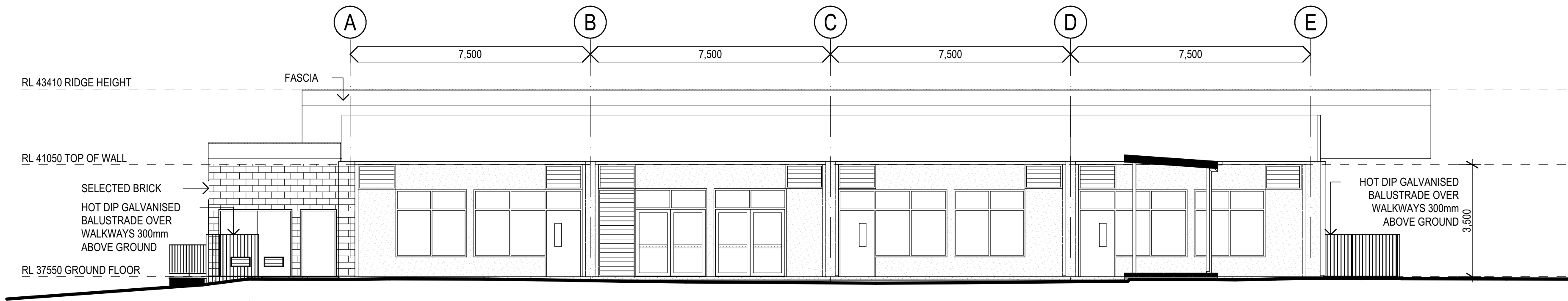
MOXHAMS ROAD,
NORTHMEAD, NSW

BUILDING T - ELEVATIONS

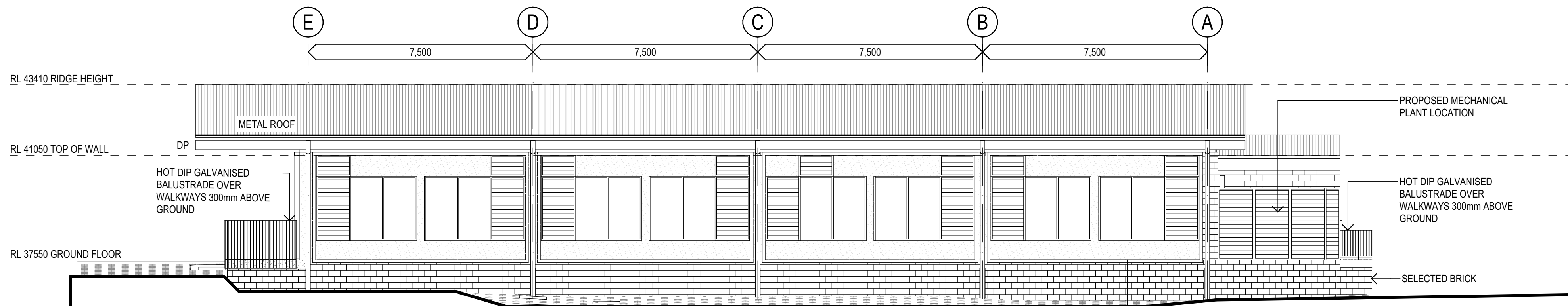
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PROJECT NUMBER **7068ND01** DIRECTOR **JW** CHECKED **NK**

DRAWING NUMBER **NPS-FTA-B00T-ZZ-DR-A-3202** REVISION **04**



1 ELEVATION
EAST ELEVATION
SCALE: 1:100



2 ELEVATION
WEST ELEVATION
SCALE: 1:100

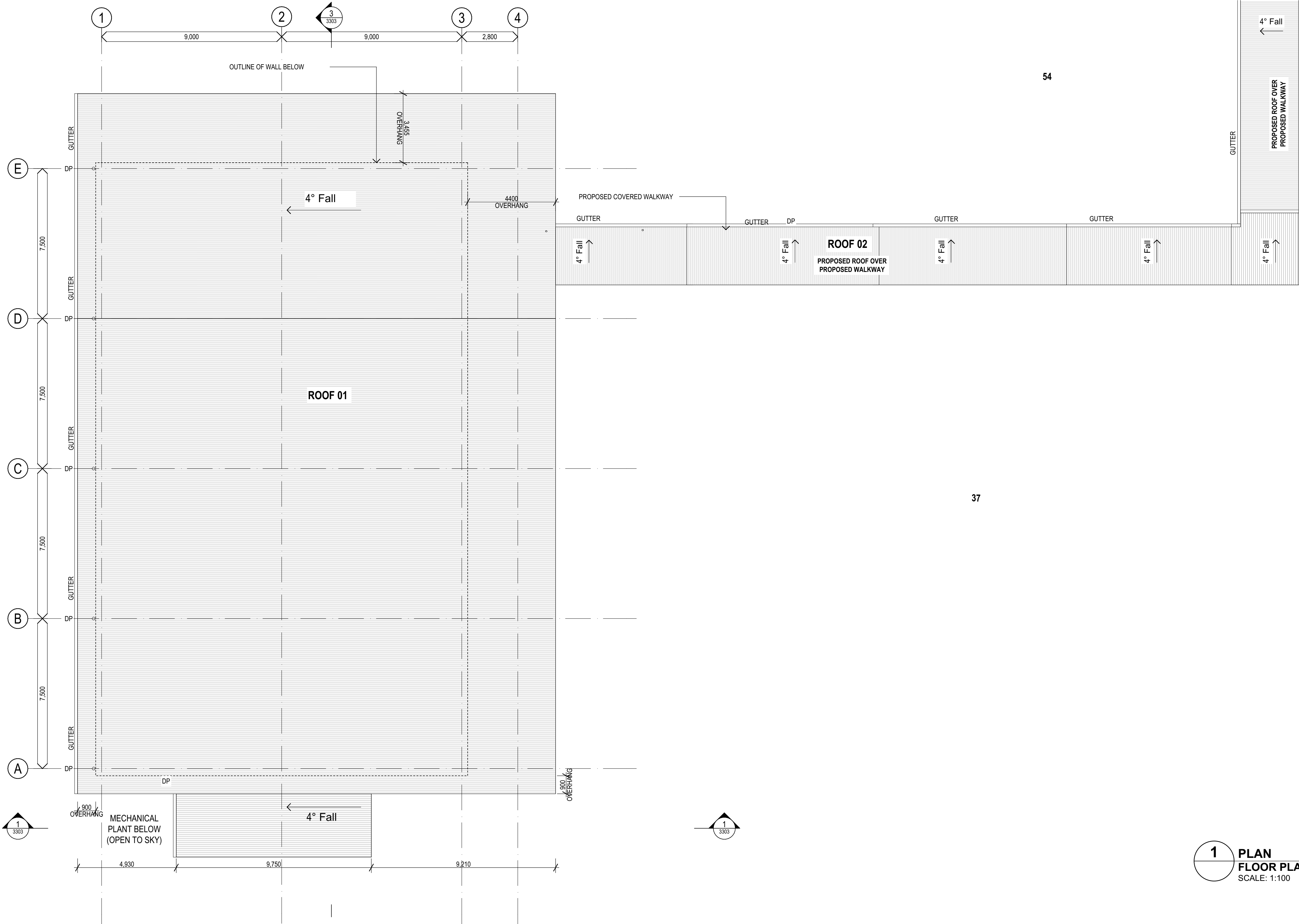
150mm @ A1
100
50

REV.	DESCRIPTION	DATE	INIT.
04	100% SCHEMATIC DESIGN	19/12/2024	AK
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02	80% SCHEMATIC DESIGN	26/11/2024	AK
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P2	FOR INFORMATION	27/09/2024	AK
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Ryan Loveday fraa QLD 4500

PROJECT CLIENT / PHASE
SCHEMATIC DESIGN
SCHOOL INFRASTRUCTURE
NSW
NORTHMEAD PUBLIC SCHOOL
MOXHAMS ROAD,
NORTHMEAD, NSW

DRAWING
BUILDING T - ELEVATIONS
Figured dimensions take precedence over
scale dimensions. Contractors must verify
all dimensions on site before commencing
any work or making shop drawings.
PROJECT NUMBER
7068ND01
DIRECTOR
JW
CHECKED
NK
DRAWING NUMBER
NPS-FTA-B00T-ZZ-DR-A-3201
REVISION
04



ROOF PLAN LEGEND

ROOF LABEL

ROOF 1<- ROOF NUMBER

XX00 : XX00<- FINISH CODE (REFER TO FINISHES LEGEND)

↑ MATERIAL CODE (REFER TO MATERIAL LEGEND)

○ FALL 5°> FALL IN ROOF

1 PLAN
FLOOR PLAN ROOF
SCALE: 1:100

REV.	DESCRIPTION	DATE	INIT.
04	100% SCHEMATIC DESIGN	19/12/2024	NK
03	95% SCHEMATIC DESIGN	10/12/2024	AK
02	80% SCHEMATIC DESIGN	26/11/2024	AK
01	SD-01 - 50% SCHEMATIC DESIGN	15/11/2024	AK
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P2	FOR INFORMATION	27/09/2024	AK
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Paul Spikova fraa QLD 1108
Ryan Lovetday fraa QLD 4500

NSW 6855
NSW 8371
NSW 7434
NSW 7180

VIC 18804

SCHEMATIC DESIGN
SCHOOL INFRASTRUCTURE
NSW

NORTHMEAD PUBLIC SCHOOL

MOXHAMS ROAD,
NORTHMEAD, NSW

BUILDING T - ROOF PLAN

Figured dimensions take precedence over scale dimensions. Contractors must verify all dimensions on site before commencing any work or making shop drawings.

PROJECT NUMBER
7068ND01

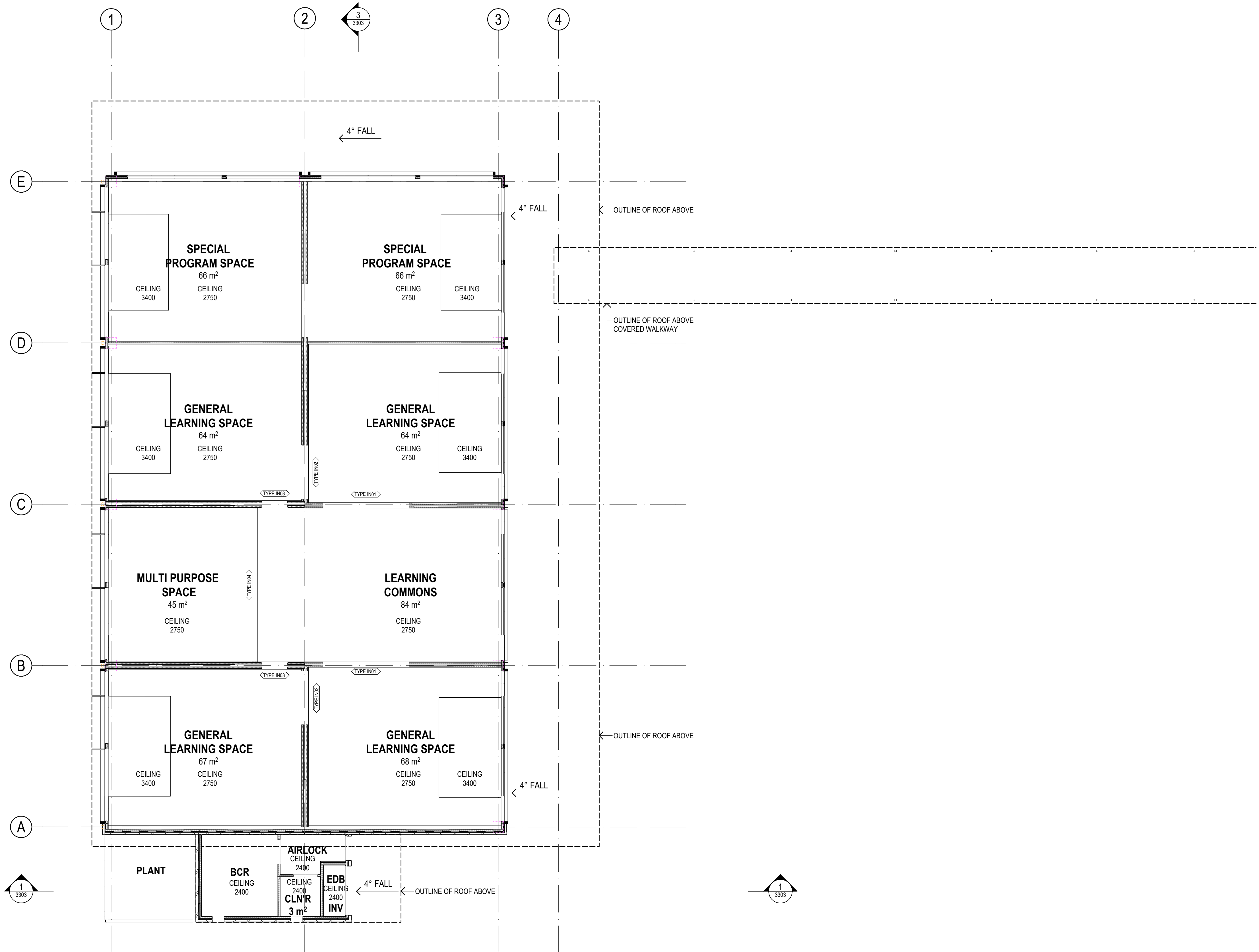
DIRECTOR
JW

CHECKED
NK

DRAWING NUMBER
NPS-FTA-B00T-LR-DR-A-2102

REVISION
04

CEILING PLAN LEGEND	
CEILING LABEL	
XX99.XX99	MATERIAL CODE (REFER TO MATERIAL LEGEND)
2400	FINISH CODE (REFER TO FINISHES LEGEND)
2400	CEILING LEVEL (FROM FINISHED FLOOR LEVEL)
RAKE 5°	FALL IN CEILING (IF RAKING)



1 PLAN
CEILING PLAN BUILDING T GROUND FLOOR
SCALE: 1:100

REV.	DESCRIPTION	DATE	INIT.
04	100% SCHEMATIC DESIGN	19/12/2024	AK
03	95% SCHEMATIC DESIGN	10/12/2024	AK
02	80% SCHEMATIC DESIGN	26/11/2024	AK
01	SD-01 - 50% SCHEMATIC DESIGN	15/11/2024	AK

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Ryan Lovetday nra

NSW 6855
NSW 8371
NSW 7434
NSW 7180

QLD 2500
QLD 3313
QLD 3847
QLD 4528
QLD 3108
QLD 4500

SCHEMATIC DESIGN
SCHOOL INFRASTRUCTURE
NSW

NORTHMEAD PUBLIC SCHOOL

MOXHAMS ROAD,
NORTHMEAD, NSW

BUILDING T - GROUND FLOOR
RCP

Figured dimensions take precedence over
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all dimensions on site before commencing
any work or making shop drawings.

PROJECT NUMBER
7068ND01

DIRECTOR
JW

CHECKED
NK

DRAWING NUMBER
NPS-FTA-B00T-GF-DR-A-2201

REVISION
04



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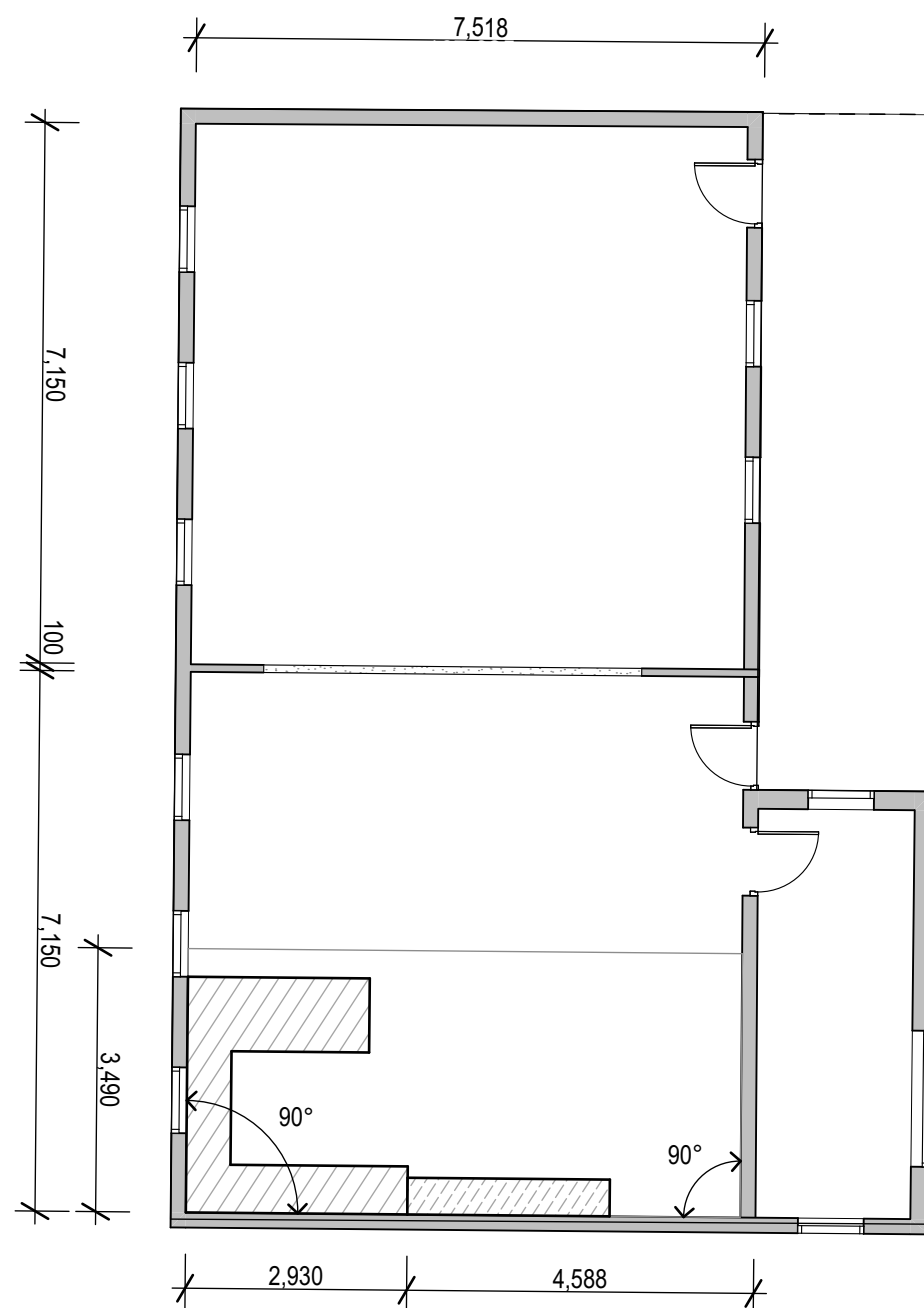
Fulton Trottter Architects ACN 677 244 550 ABN 57 677 244 550
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John Ward
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David Siskind fraiss
Ryan Loydovici fraiss

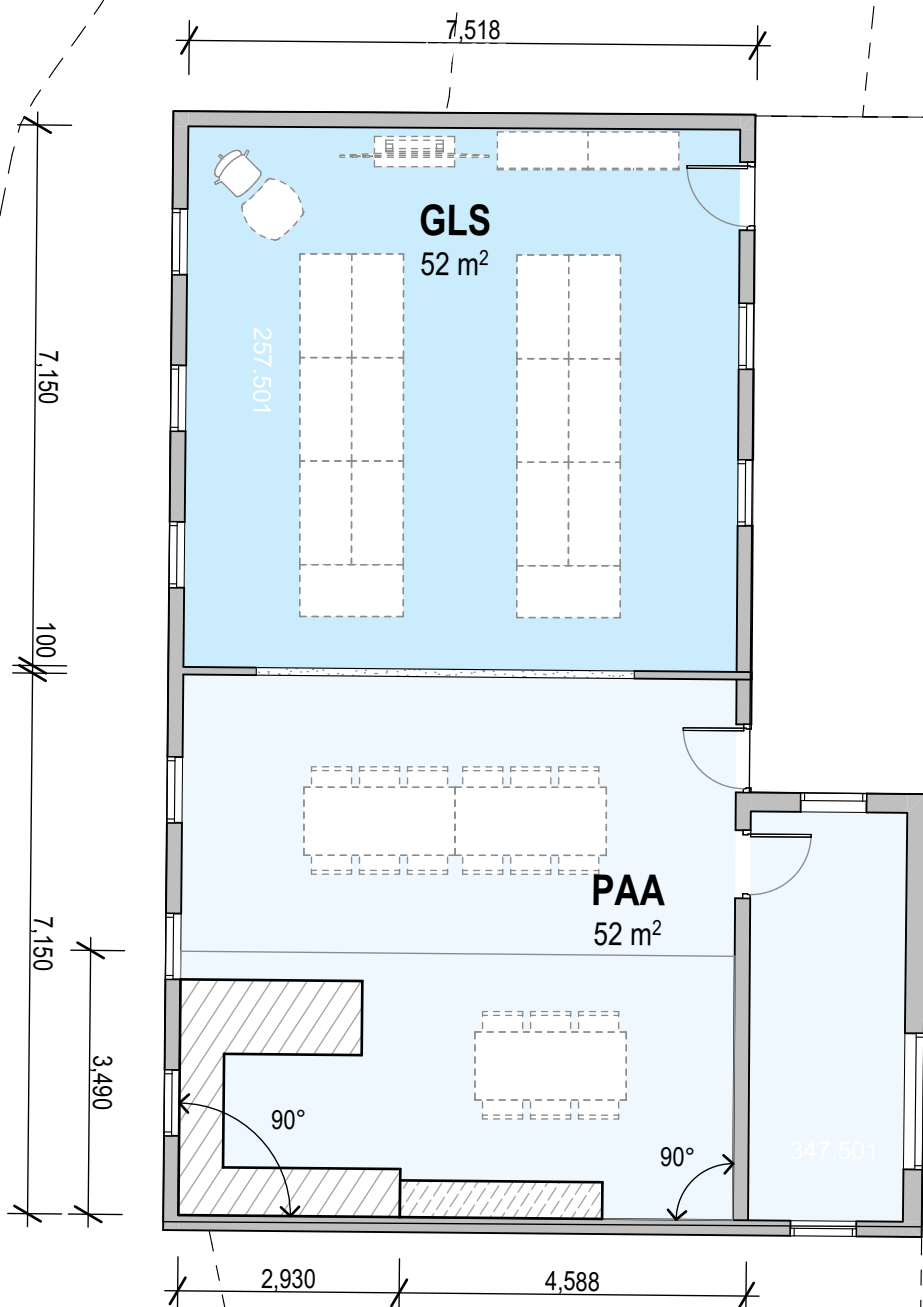
SYDNEY NSW 6855 NSW 6855 NSW 6855 NSW 6855 NSW 6855
VIC 15804 NSW 6371 NSW 7434 NSW 7180 NSW 4250

DRAWING	BUILDING T - GROUND FLOOR PLAN Figured dimensions take precedence over scale dimensions. Contractors must verify all dimensions on site before commencing any work or making shop drawings.	 N
PROJECT NUMBER 7068ND01	DIRECTOR JW	CHECKED BY NK
DRAWING NUMBER	REVISION	
NPS-FTA-B00T-GF-DR-A-2101 04		

150mm @ A1
100
50



1 PLAN
BUILDING R - EXISTING FLOOR PLAN
SCALE: 1:100



2 PLAN
BUILDING R - PROPOSED FLOOR PLAN
SCALE: 1:100

REV.	DESCRIPTION	DATE	INIT.
04	100% SCHEMATIC DESIGN	19/12/2024	NK
03	95% SCHEMATIC DESIGN	10/12/2024	AK
02		26/11/2024	
01	SD-01 - 50% SCHEMATIC DESIGN	15/11/2024	AK

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Paul Spikova fraa NSW 7180
Ryan Lovetday fraa QLD 4500

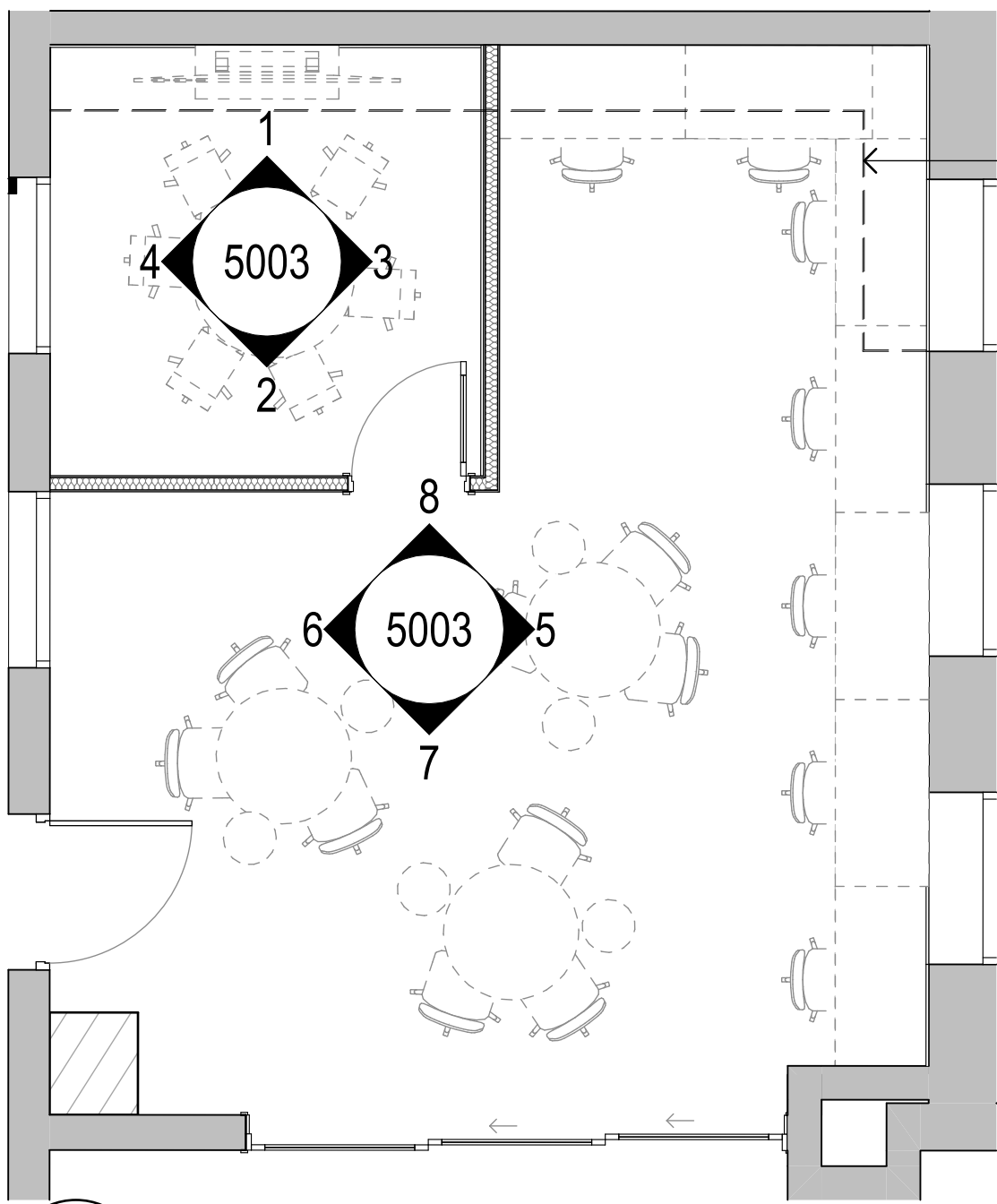
SCHEMATIC DESIGN
SCHOOL INFRASTRUCTURE
NSW
NORTHMEAD PUBLIC SCHOOL
MOXHAMS ROAD,
NORTHMEAD, NSW

**BUILDING R - EXISTING AND
PROPOSED GROUND FLOOR
PLAN**

Figured dimensions take precedence over
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all dimensions on site before commencing
any work or making shop drawings.

PROJECT NUMBER	DIRECTOR	CHECKED
7068ND01	JW	
DRAWING NUMBER	REVISION	
NPS-FTA-B00R-GF-DR-A-2101	04	

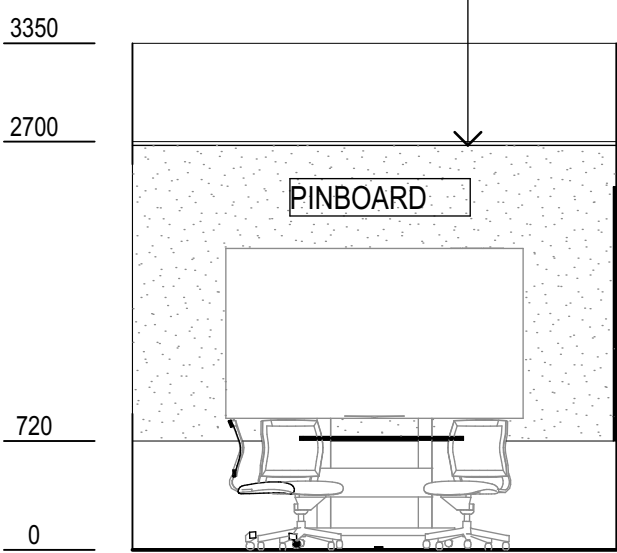
REFER TO "INTERIOR CONCEPT PRESENTATION" FILE FOR THE PROPOSED APPLICATION OF THE FINISHES AND FIXTURES



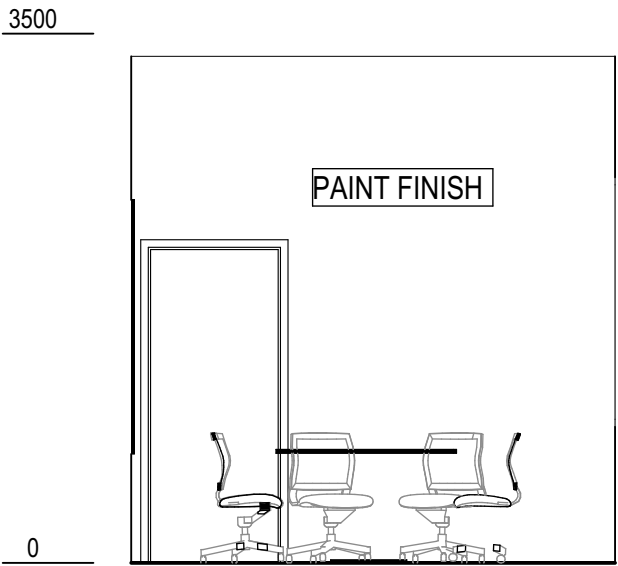
DASHED LINE SHOWING BULKHEAD OVER SITTING ON 2700MM HIGH INCOORPORATING MECHANICAL DUCTS RUN.

0 PLAN
STAFF ROOM

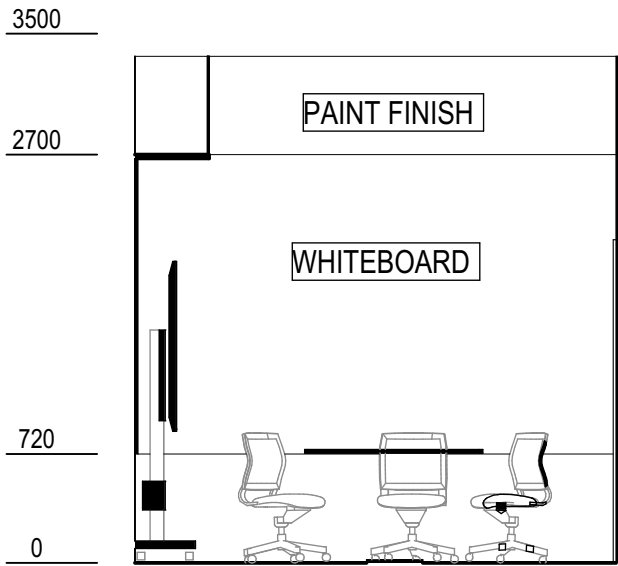
LINE SHOWING BULKHEAD OVER SITTING ON 2700MM HIGH INCOORPORATING MECHANICAL DUCTS RUN.



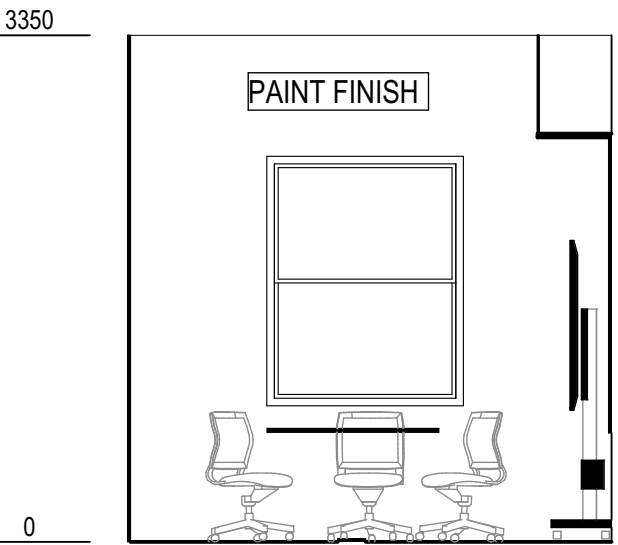
1 ROOM ELEVATION
IE-A MEETING ROOM - 2



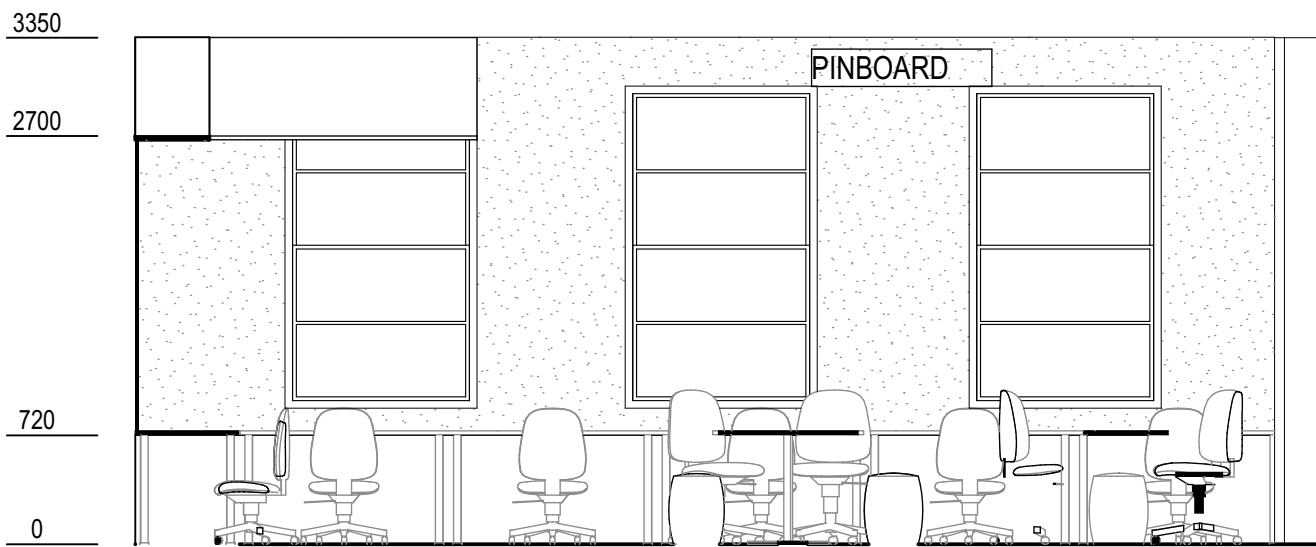
2 ROOM ELEVATION
IE-A MEETING ROOM - 2



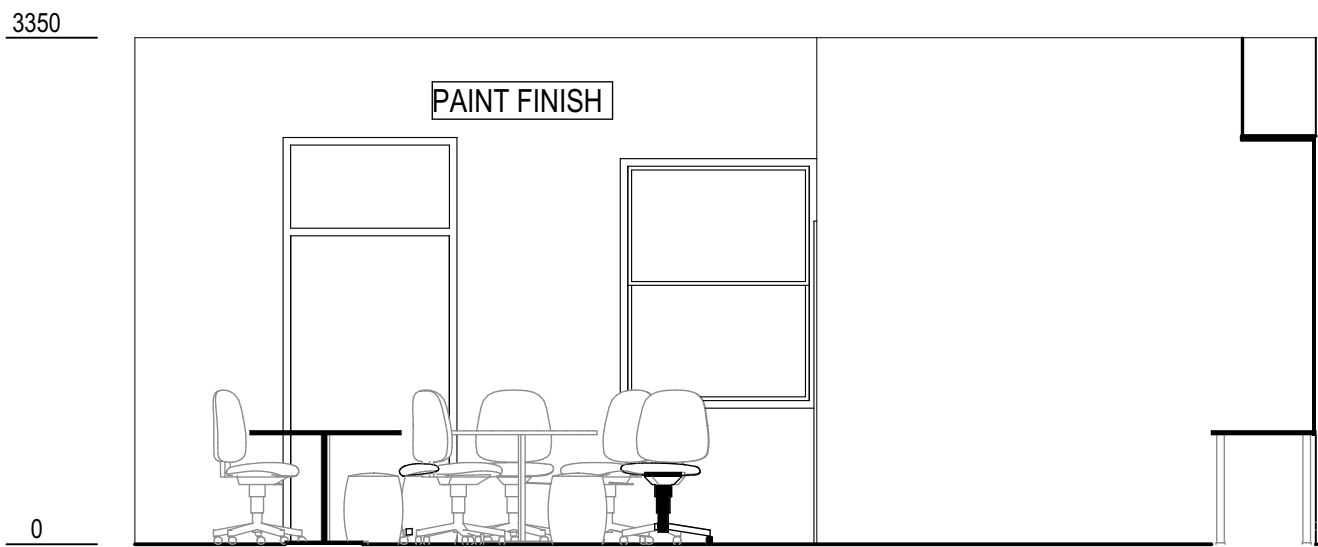
3 ROOM ELEVATION
IE-A MEETING ROOM - 2



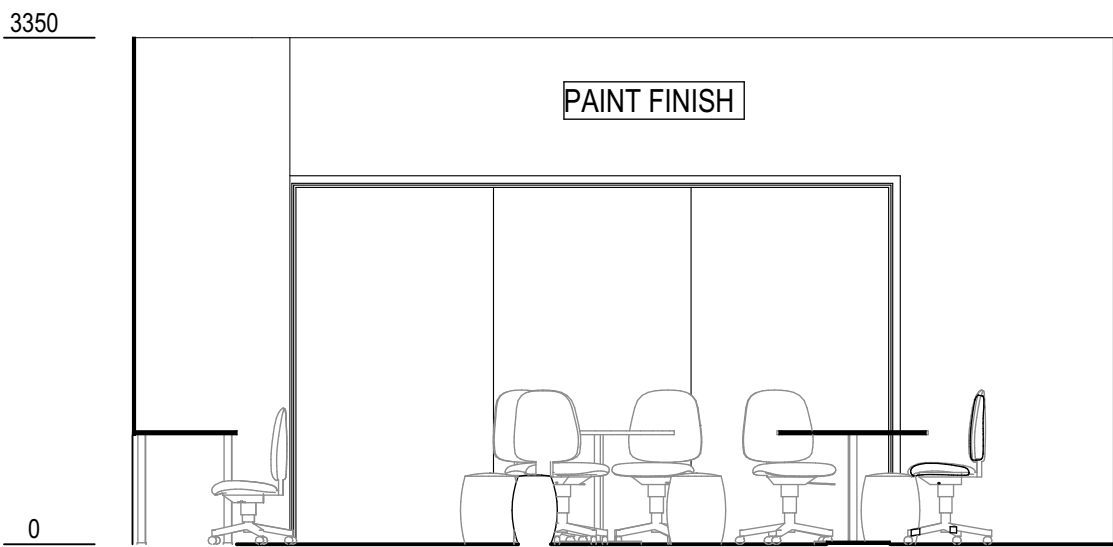
4 ROOM ELEVATION
IE-A MEETING ROOM - 2



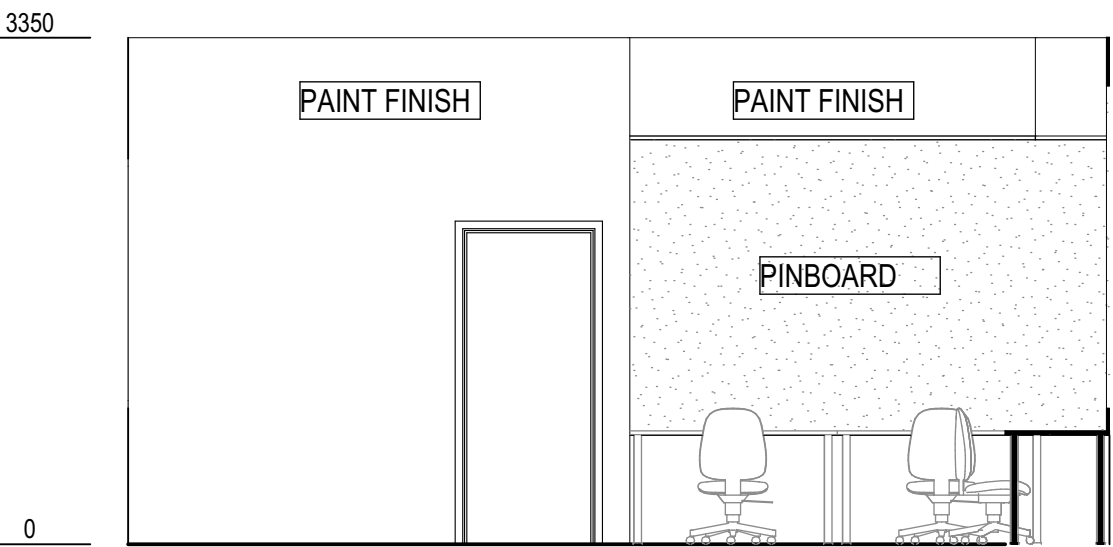
5 ROOM ELEVATION
IE-A STAFF ROOM



6 ROOM ELEVATION
IE-A STAFF ROOM



7 ROOM ELEVATION
IE-A STAFF ROOM



8 ROOM ELEVATION
IE-A STAFF ROOM

150mm @ A1

100

50

150mm @ A1

plot date: Thursday, 19 December 2024 2:47 PM file location: BIMcloud: FTA-SYD-BIM26 - BIMcloud Basic for Archicad 26/7068ND01 Northmead Public School

REV.	DESCRIPTION	DATE	INIT.
02	100% SCHEMATIC DESIGN	19/12/2024	NK
01	95% SCHEMATIC DESIGN	10/12/2024	AK

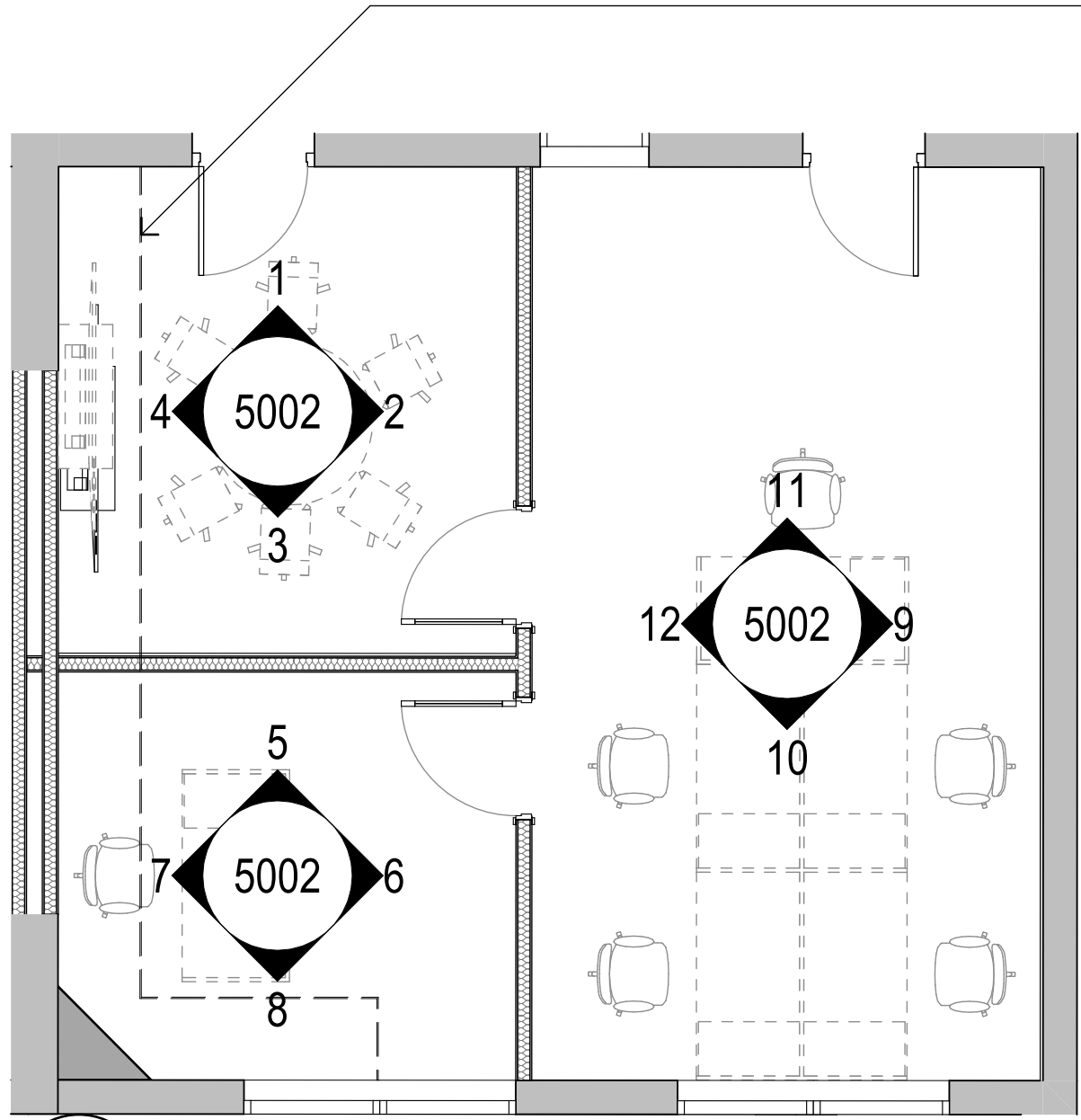
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t. (02) 8383 5151 e. sydney@fultontrotter.com.au
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Katerina Diacopoulos nra QLD 4528
Paul Skelton nra QLD 3108
Ryan Lovetday nra QLD 4500

PROJECT PHASE
CLIENT
PROJECT
NORTHMEAD PUBLIC SCHOOL
SCHEMATIC DESIGN
SCHOOL INFRASTRUCTURE
NSW
MOXHAMS ROAD,
NORTHMEAD, NSW

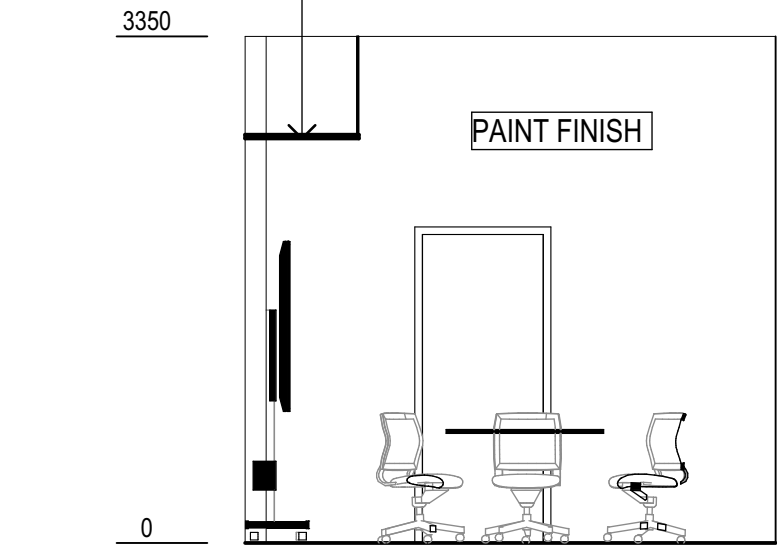
DRAWING
BUILDING A - STAFF ROOM
Figured dimensions take precedence over scale dimensions. Contractors must verify all dimensions on site before commencing any work or making shop drawings.
PROJECT NUMBER
7068ND01
DIRECTOR
JW
CHECKED
NK
DRAWING NUMBER
NPS-FTA-B00A-ZZ-DR-A-5003
REVISION
02

REFER TO "INTERIOR CONCEPT PRESENTATION" FILE FOR THE PROPOSED APPLICATION OF THE FINISHES AND FIXTURES

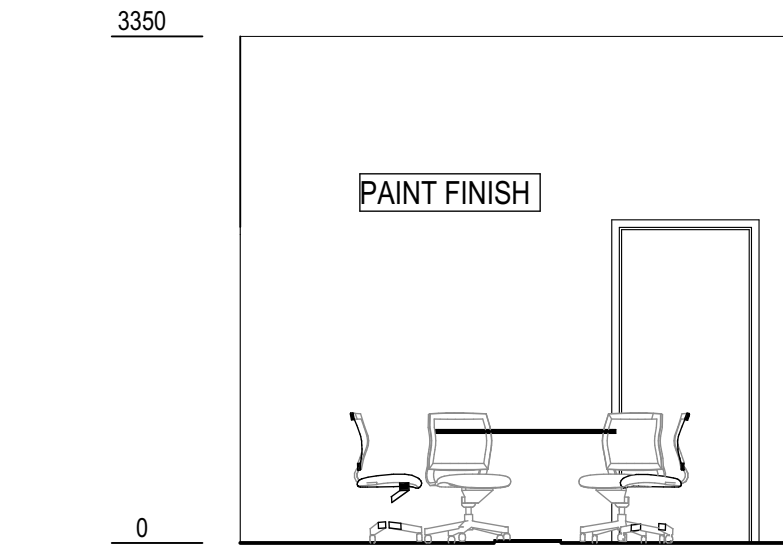
LINE SHOWING BULKHEAD OVER SITTING ON 2700MM HIGH INCOORPORATING MECHANICAL DUCTS RUN.



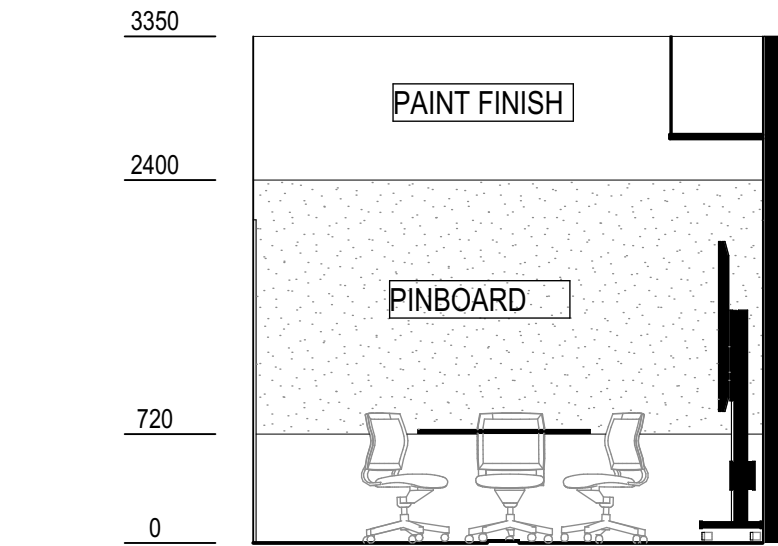
0 PLAN
AP & DEPUTY PRINCIPAL OFFICE
SCALE: 1:50



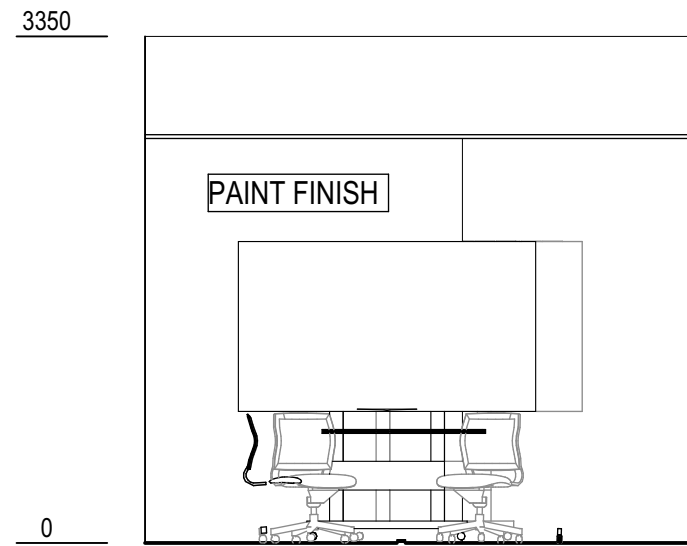
1 PERSPECTIVE
IE-A MEETING ROOM
SCALE: 1:50



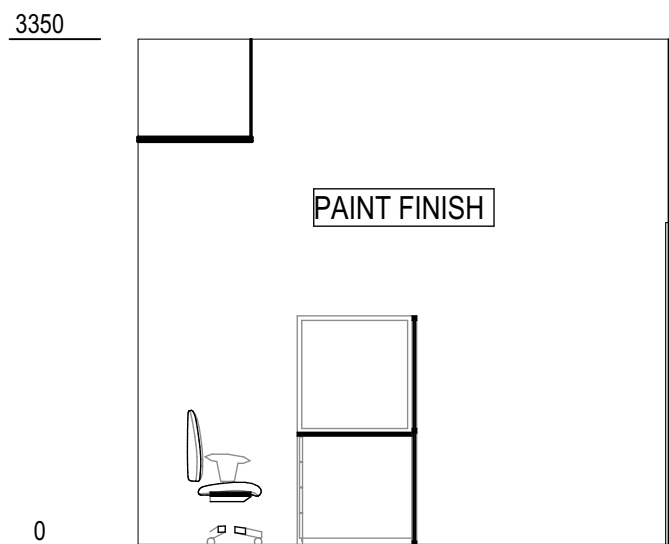
2 PERSPECTIVE
IE-A MEETING ROOM
SCALE: 1:50



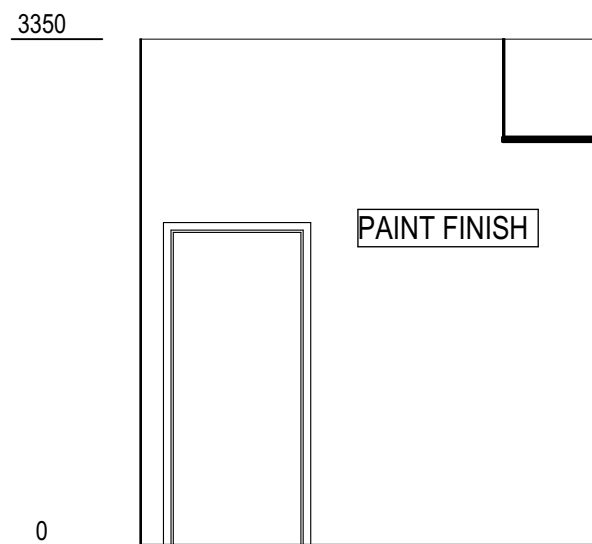
3 PERSPECTIVE
IE-A MEETING ROOM
SCALE: 1:50



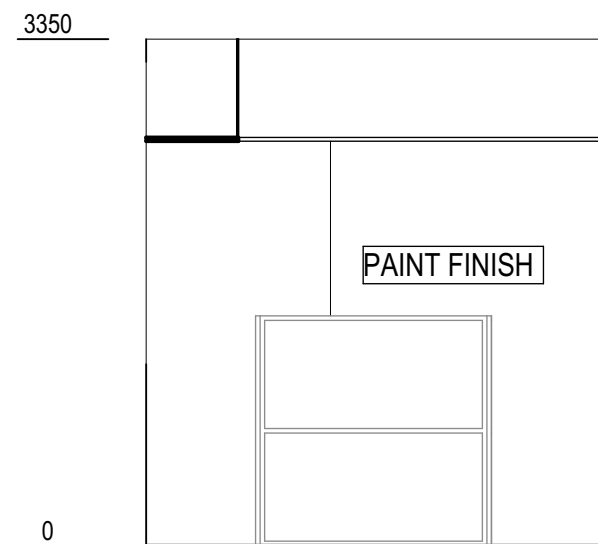
4 PERSPECTIVE
IE-A MEETING ROOM
SCALE: 1:50



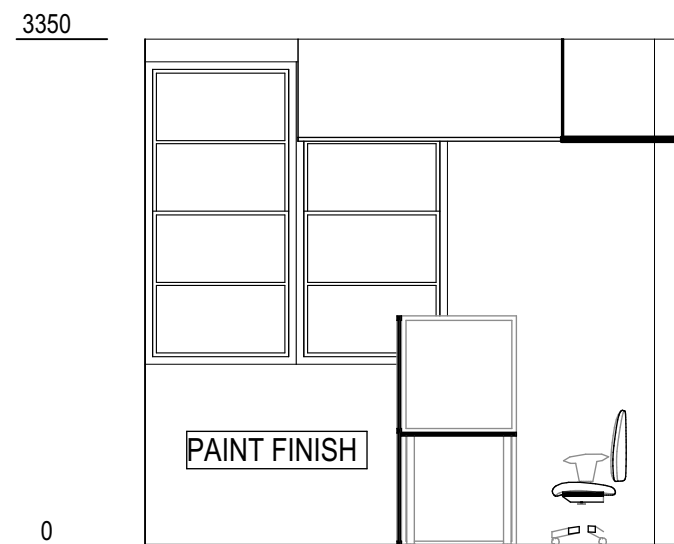
5 ROOM ELEVATION
IE-A DEPUTY PRINCIPAL
SCALE: 1:50



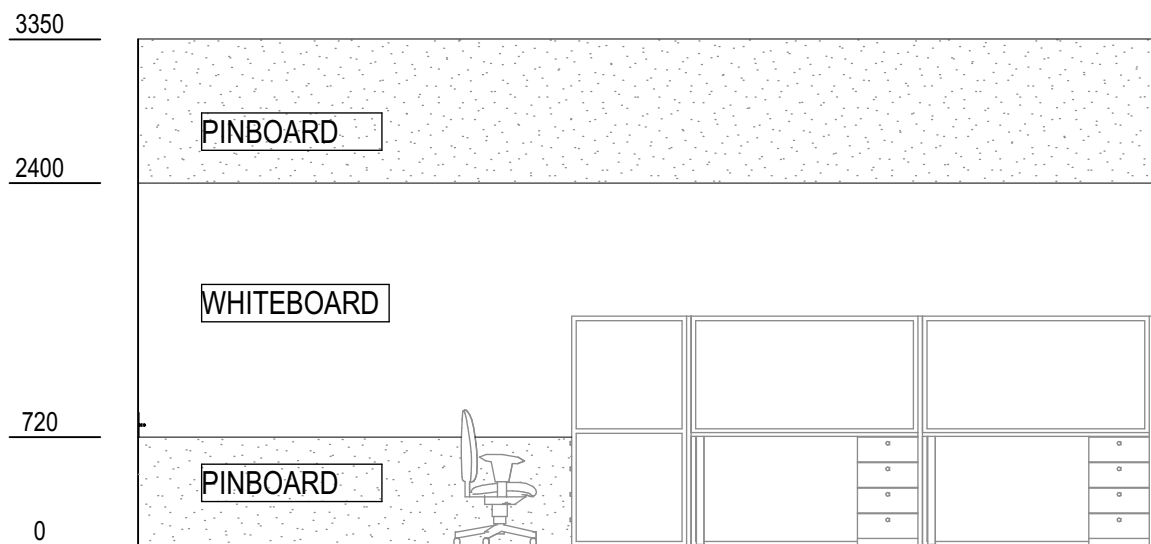
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IE-A DEPUTY PRINCIPAL
SCALE: 1:50



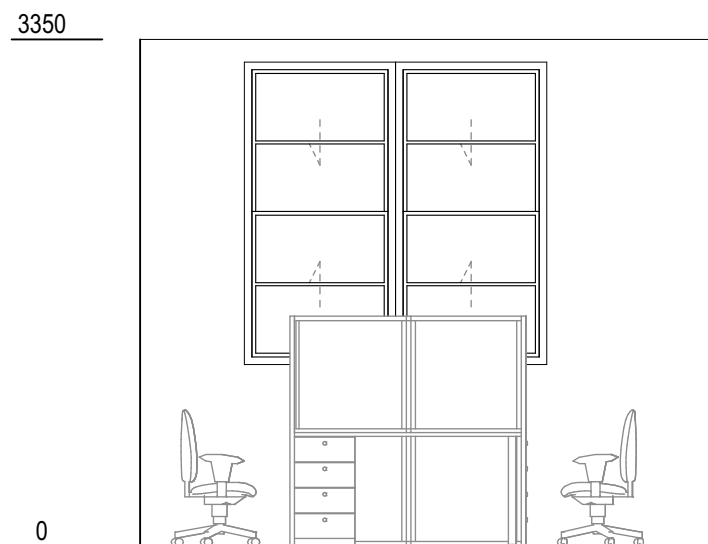
7 ROOM ELEVATION
IE-A DEPUTY PRINCIPAL
SCALE: 1:50



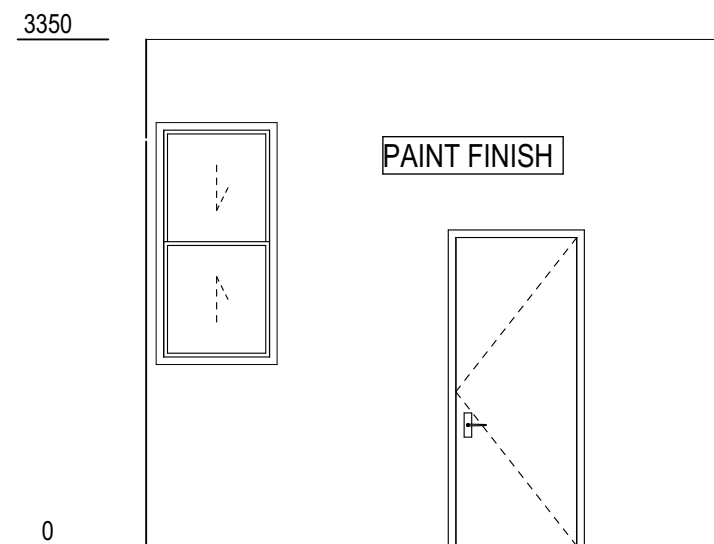
8 ROOM ELEVATION
IE-A DEPUTY PRINCIPAL
SCALE: 1:50



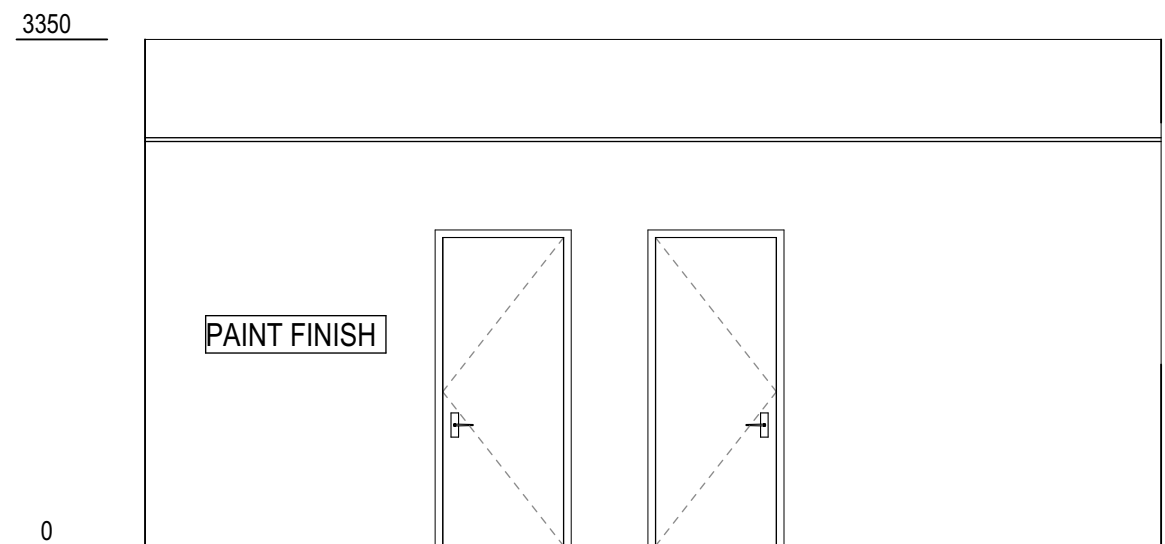
9 ROOM ELEVATION
IE-A AP OFFICE
SCALE: 1:50



10 ROOM ELEVATION
IE-A AP OFFICE
SCALE: 1:50



11 ROOM ELEVATION
IE-A AP OFFICE
SCALE: 1:50



12 ROOM ELEVATION
IE-A AP OFFICE
SCALE: 1:50

REV.	DESCRIPTION	DATE	INIT.
02	100% SCHEMATIC DESIGN	19/12/2024	NK
01	95% SCHEMATIC DESIGN	10/12/2024	AK

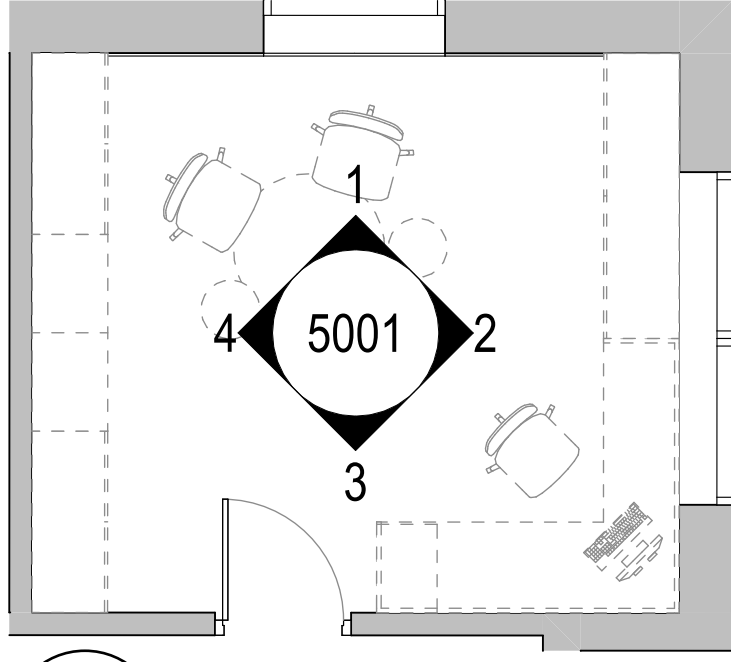
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Justine Elzary nra QLD 3313
John Ward nra QLD 3847
Katerina Diacopoulos fra QLD 4528
Paul Skovron fra NSW 7180
Ryan Lovetday fra QLD 4500

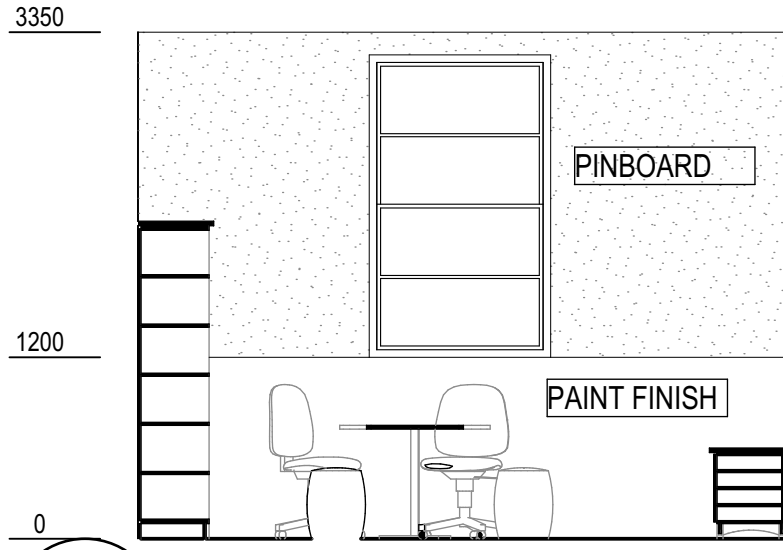
SCHEMATIC DESIGN
SCHOOL INFRASTRUCTURE
NSW
NORTHMEAD PUBLIC SCHOOL
MOXHAMS ROAD,
NORTHMEAD, NSW

BUILDING A - DEPUTY PRINCIPAL / AP OFFICE
PROJECT NUMBER 7068ND01
DIRECTOR JW
CHECKED NK
DRAWING NUMBER NPS-FTA-B00A-ZZ-DR-A-5002
REVISION 02

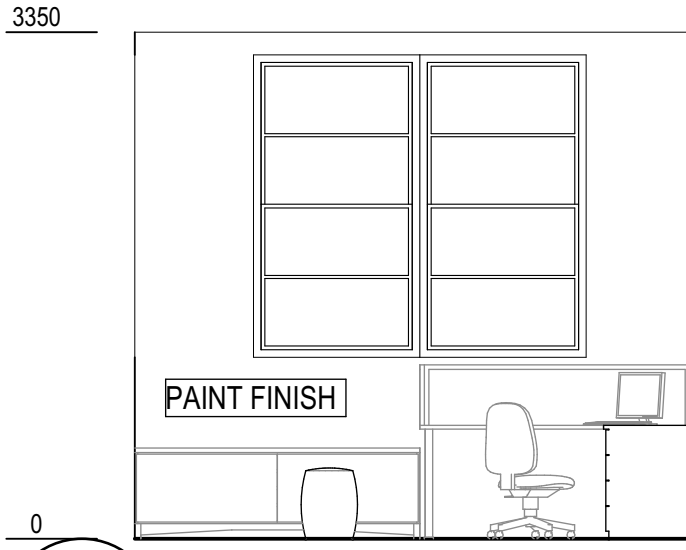
REFER TO "INTERIOR CONCEPT PRESENTATION" FILE FOR THE
PROPOSED APPLICATION OF THE FINISHES AND FIXTURES



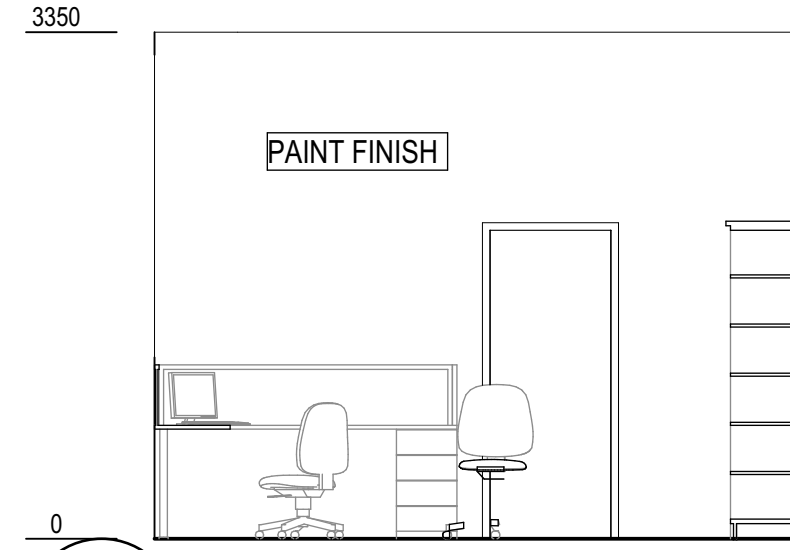
0 PLAN
PRINCIPAL
SCALE: 1:50



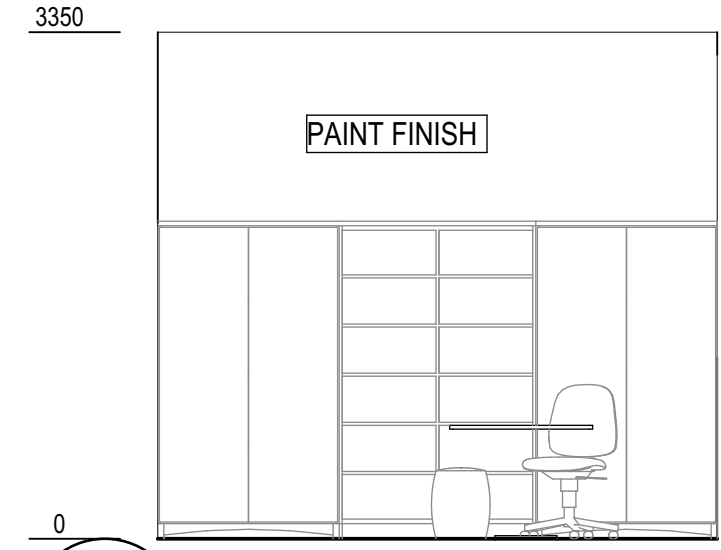
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IE-A PRINCIPLE
SCALE: 1:50



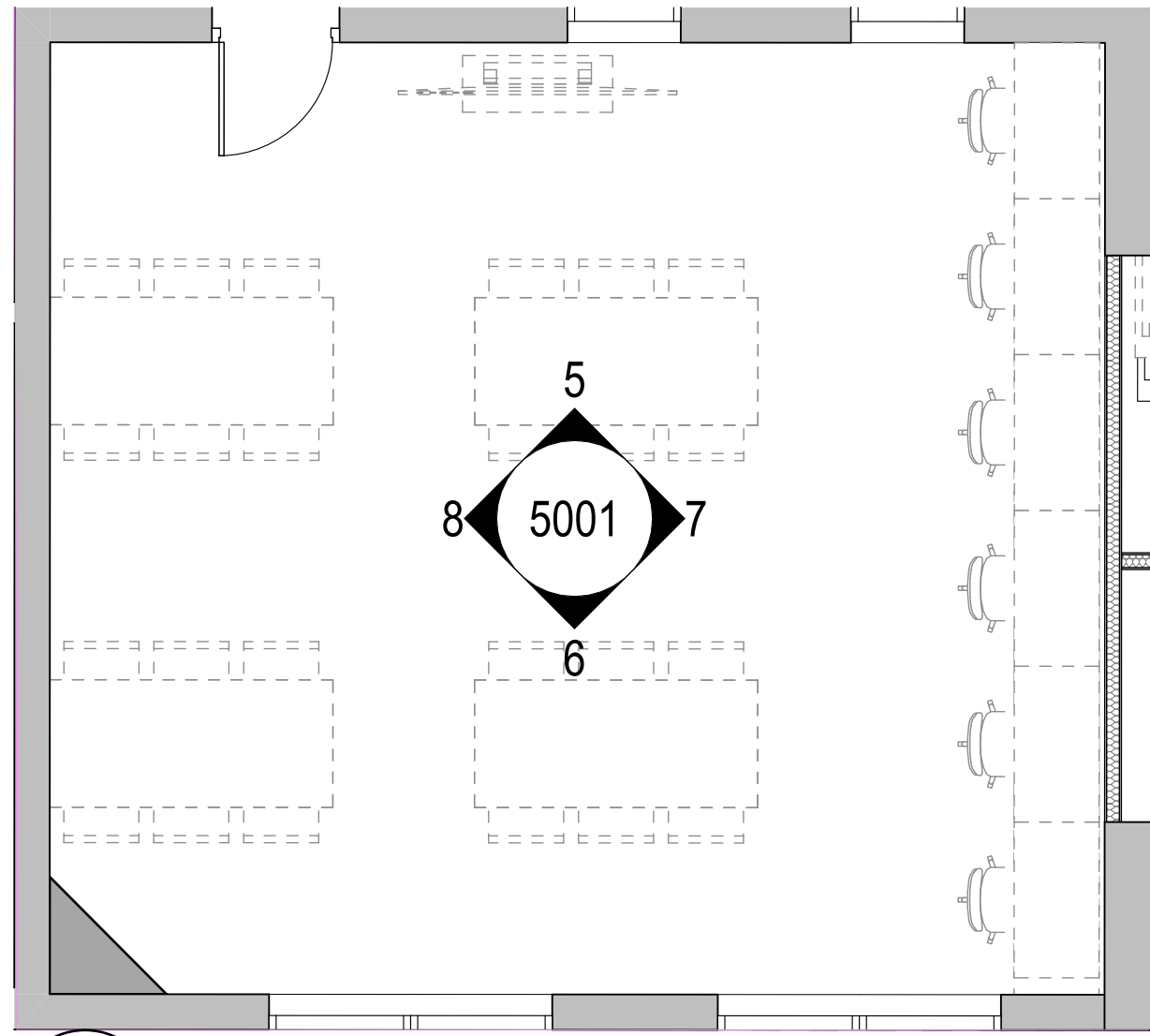
2 ROOM ELEVATION
IE-A PRINCIPLE
SCALE: 1:50



3 ROOM ELEVATION
IE-A PRINCIPLE
SCALE: 1:50



4 ROOM ELEVATION
IE-A PRINCIPLE
SCALE: 1:50

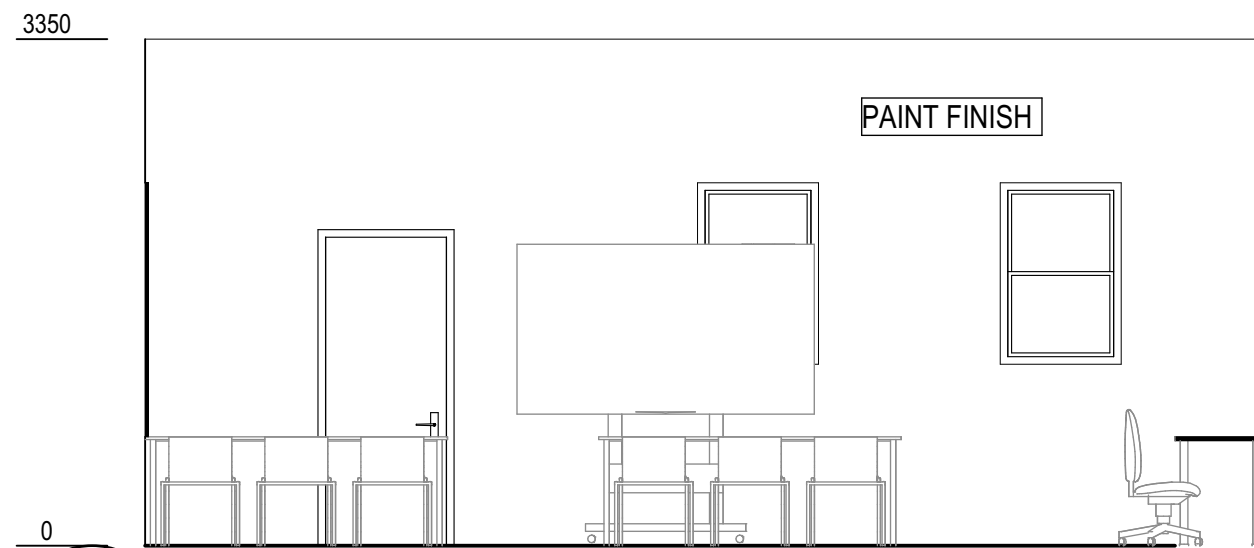


0 PLAN
TECH HUB
SCALE: 1:50

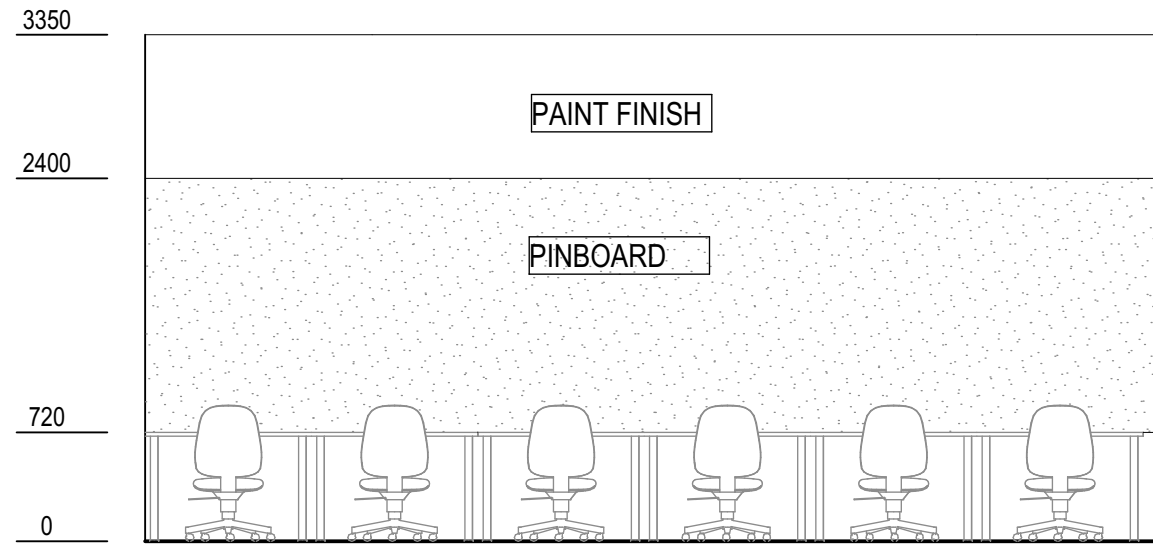
PINBOARD

WHITEBOARD

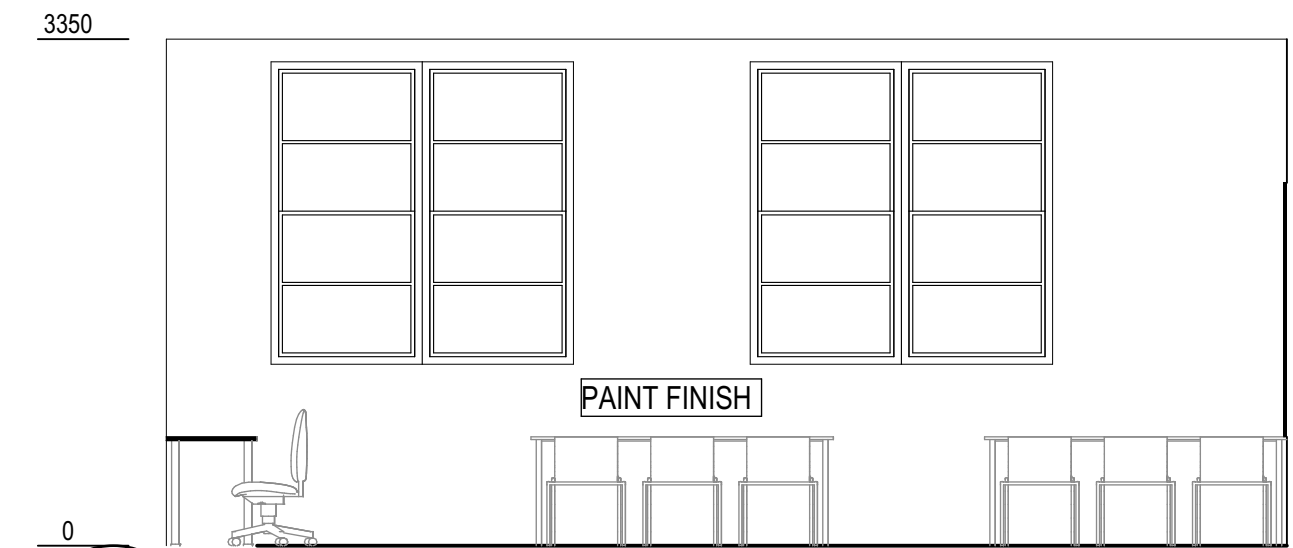
PINBOARD



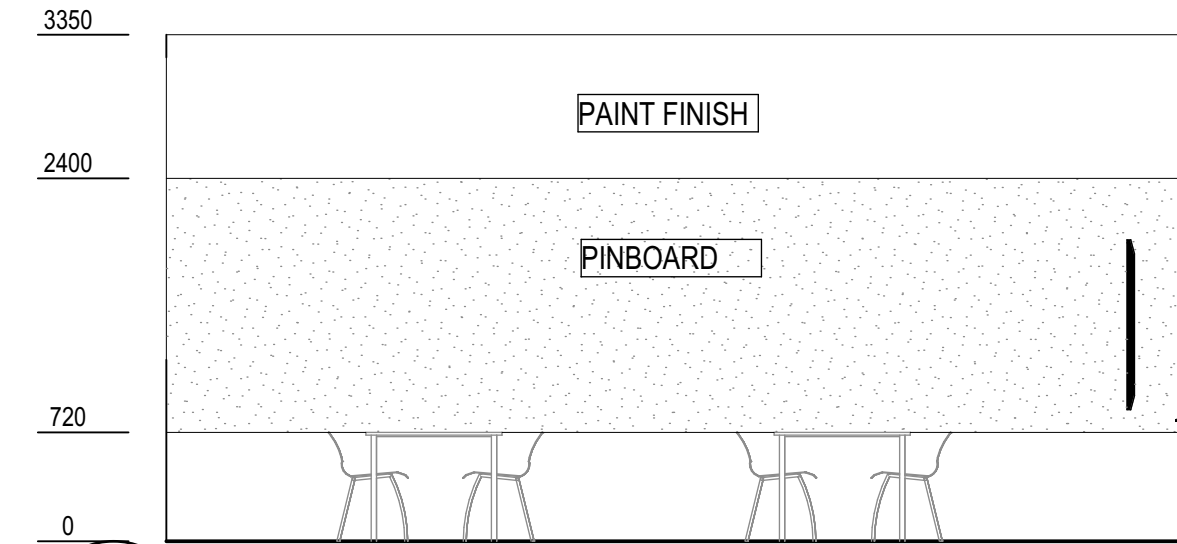
5 ROOM ELEVATION
IE-A TECH HUB
SCALE: 1:50



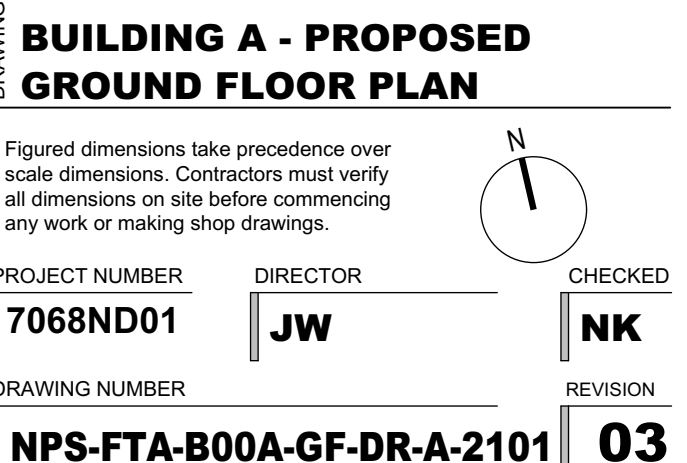
7 ROOM ELEVATION
IE-A TECH HUB
SCALE: 1:50

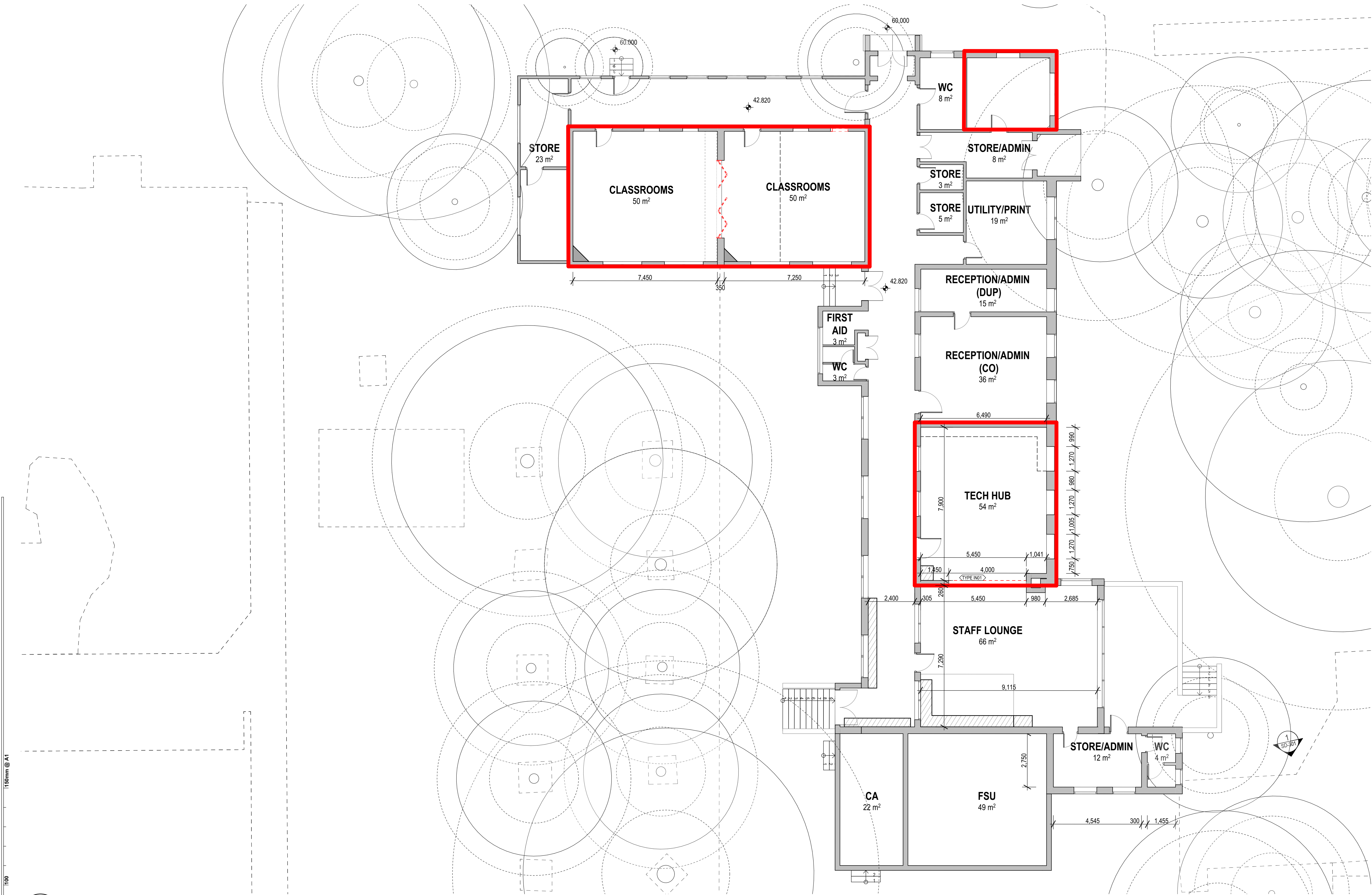


6 ROOM ELEVATION
IE-A TECH HUB
SCALE: 1:50



8 ROOM ELEVATION
IE-A TECH HUB
SCALE: 1:50





1 PLAN
BUILDING R GROUND FLOOR EXISTING
SCALE: 1:100

REV.	DESCRIPTION	DATE	INIT.
04	100% SCHEMATIC DESIGN	19/12/2024	NK
03	95% SCHEMATIC DESIGN	10/12/2024	AK
02		26/11/2024	
01	SD-01 - 50% SCHEMATIC DESIGN	15/11/2024	AK

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Ryan Lovetday fra QLD 4500

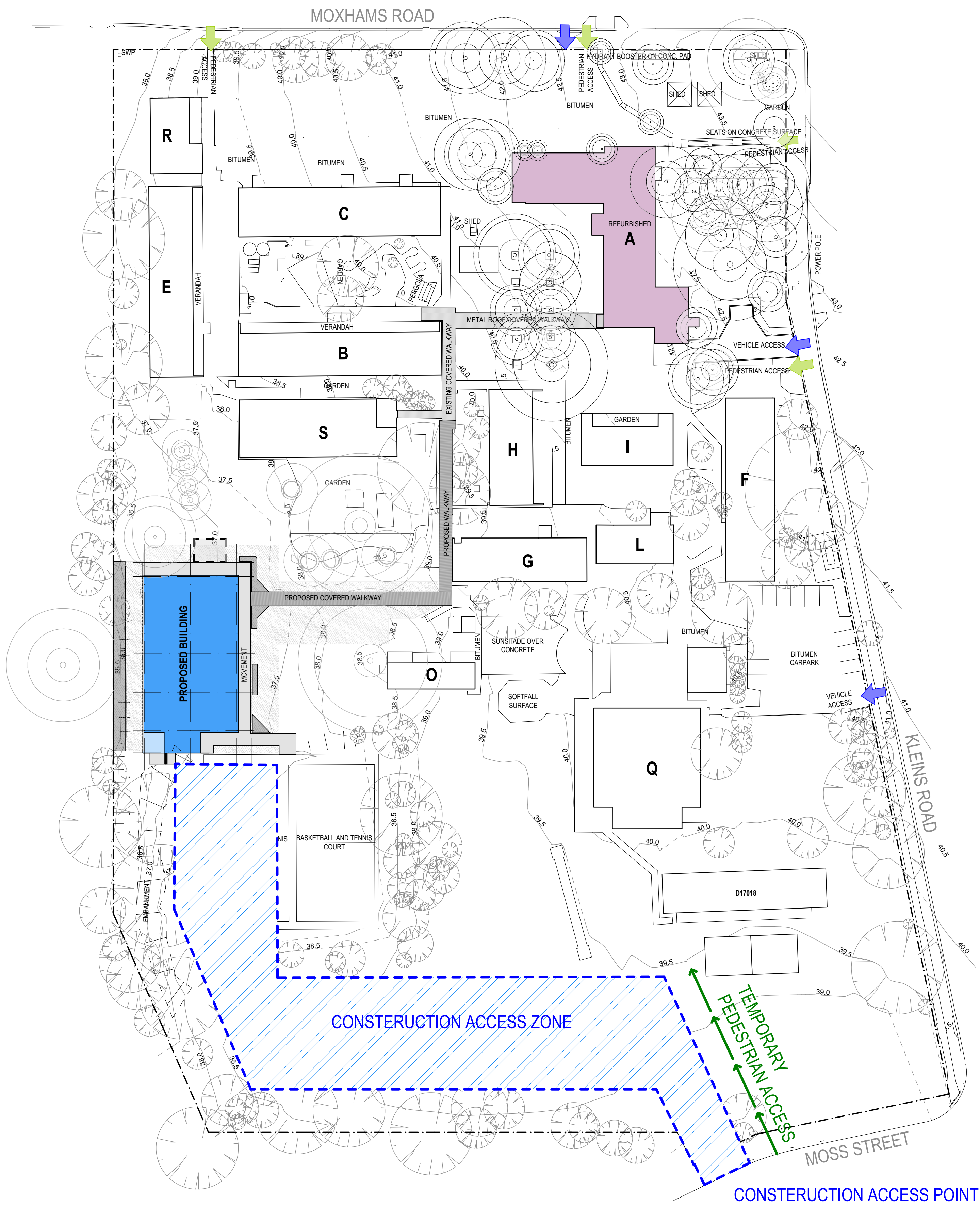
DRAWING CLIENT / PHASE
PROJECT CLIENT / PHASE
SCHEMATIC DESIGN
SCHOOL INFRASTRUCTURE
NSW
NORTHMEAD PUBLIC SCHOOL
MOXHAMS ROAD,
NORTHMEAD, NSW

BUILDING A - EXISTING
GROUND FLOOR PLAN

Figured dimensions take precedence over
scale dimensions. Contractors must verify
all dimensions on site before commencing
any work or making shop drawings.

PROJECT NUMBER
7068ND01
DRAWING NUMBER
NPS-FTA-B00A-GF-DR-A-2100
DIRECTOR
JW
CHECKED
NK
REVISION
04

1 PLAN
CONSTRUCTION MANAGEMENT PLAN
SCALE: 1:500



REV.	DESCRIPTION	DATE	INIT.
01	100% SCHEMATIC DESIGN	19/12/2024	NK

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Paul Siskawa Itala VIC 18804 QLD 1188
Ryan Lovetday Itala NSW 7180 QLD 4500

DRAWING PROJECT CLIENT PHASE
SCHEMATIC DESIGN
SCHOOL INFRASTRUCTURE
NSW

PROJECT NORTHMEAD PUBLIC SCHOOL

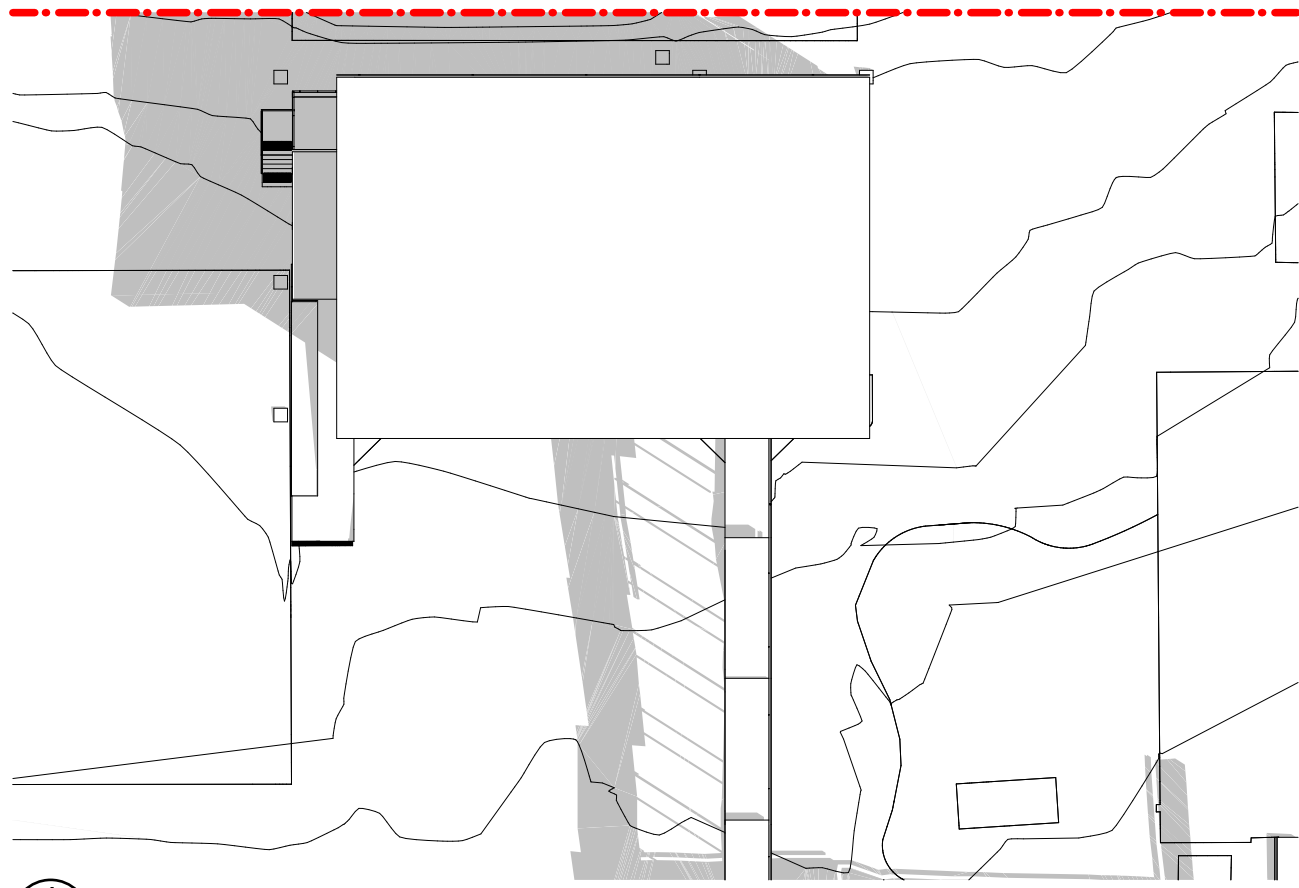
ADDRESS MOXHAMS ROAD,
NORTHMEAD, NSW

DRAWING **CONSTRUCTION MANAGEMENT STRATEGY**

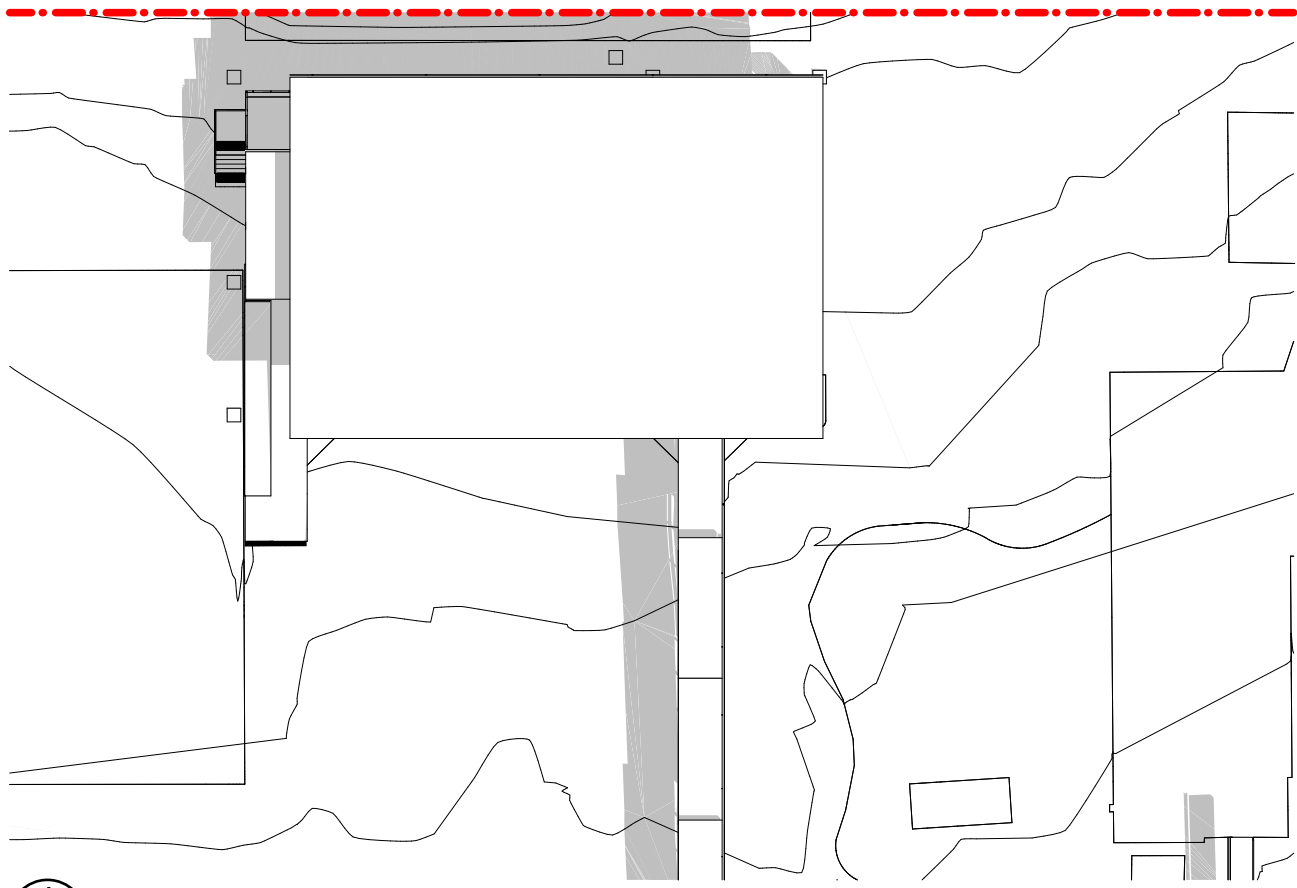
Figured dimensions take precedence over scale dimensions. Contractors must verify all dimensions on site before commencing any work or making shop drawings.

PROJECT NUMBER **7068ND01** DIRECTOR **JW** CHECKED

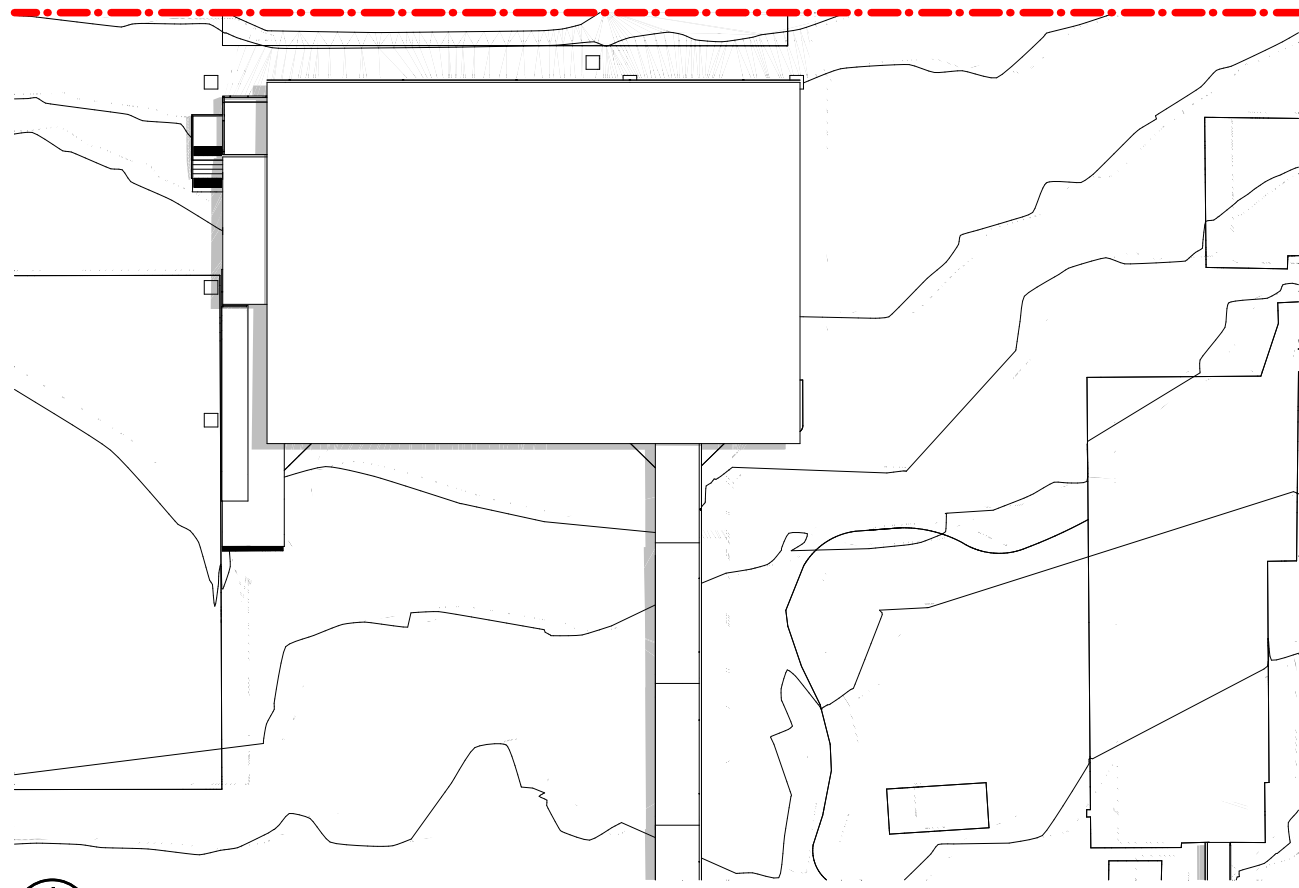
DRAWING NUMBER **NPS-FTA-00-00-DR-A-1650** REVISION **01**



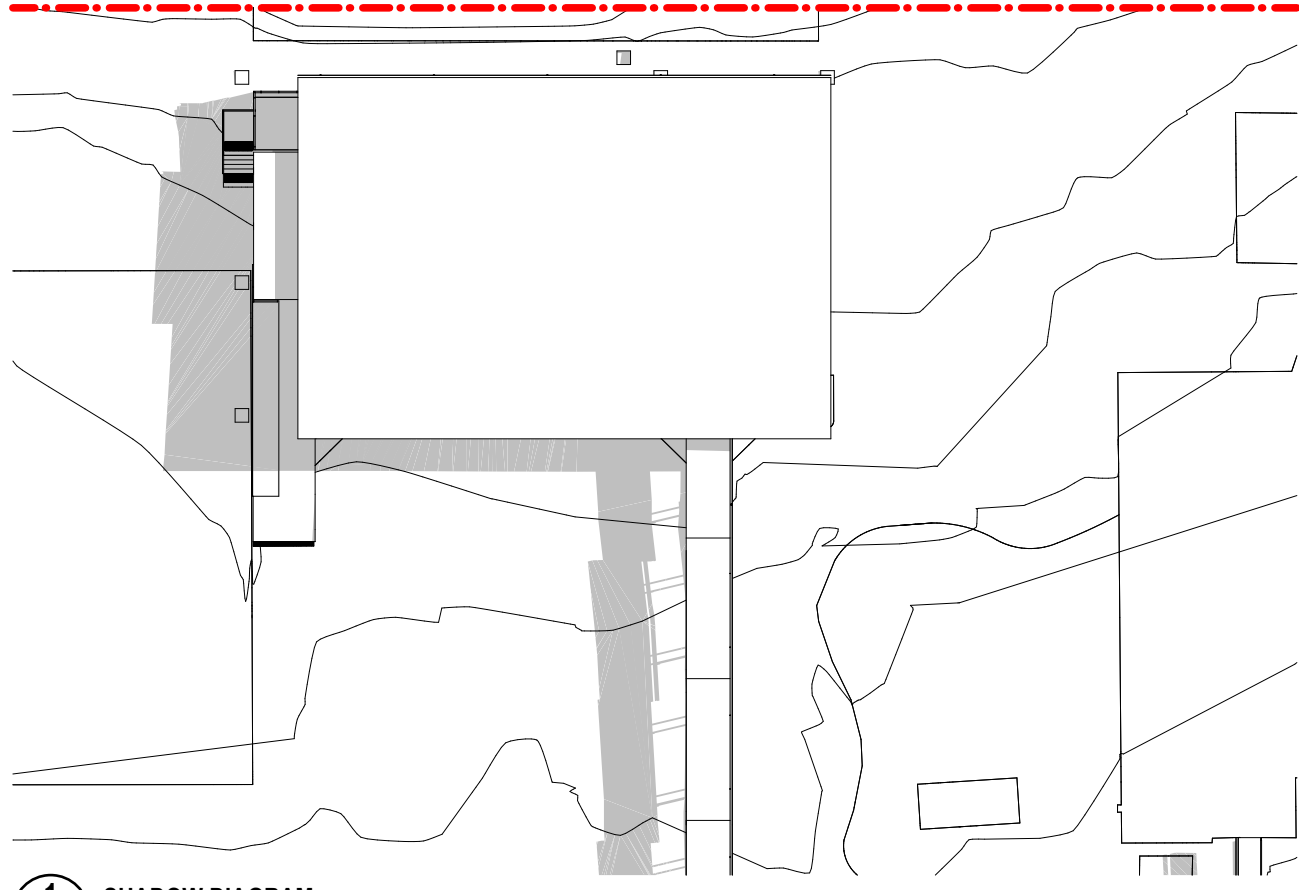
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June 21 9:00 a.m.
SCALE: 1:500



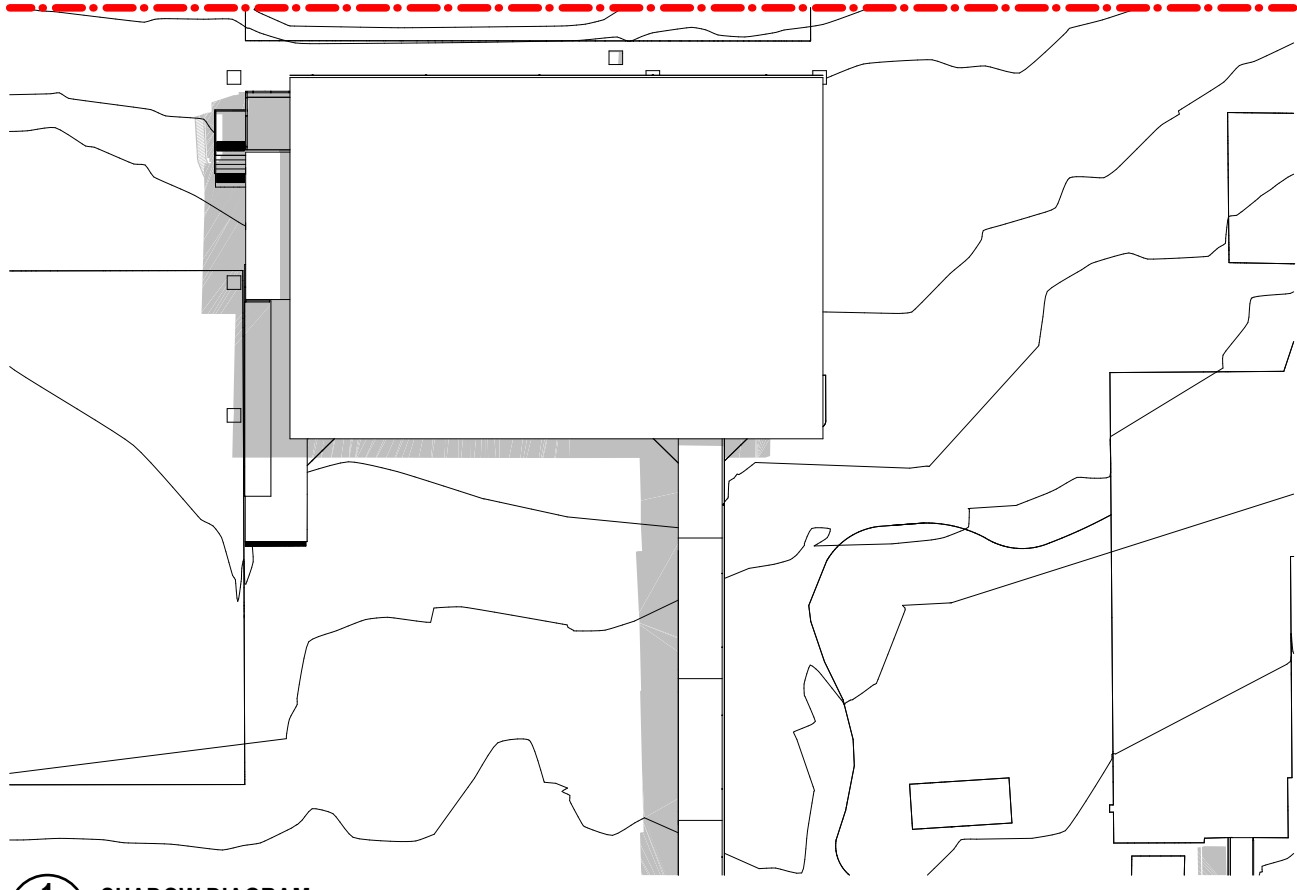
1 SHADOW DIAGRAM
September 22 9:00 a.m.
SCALE: 1:500



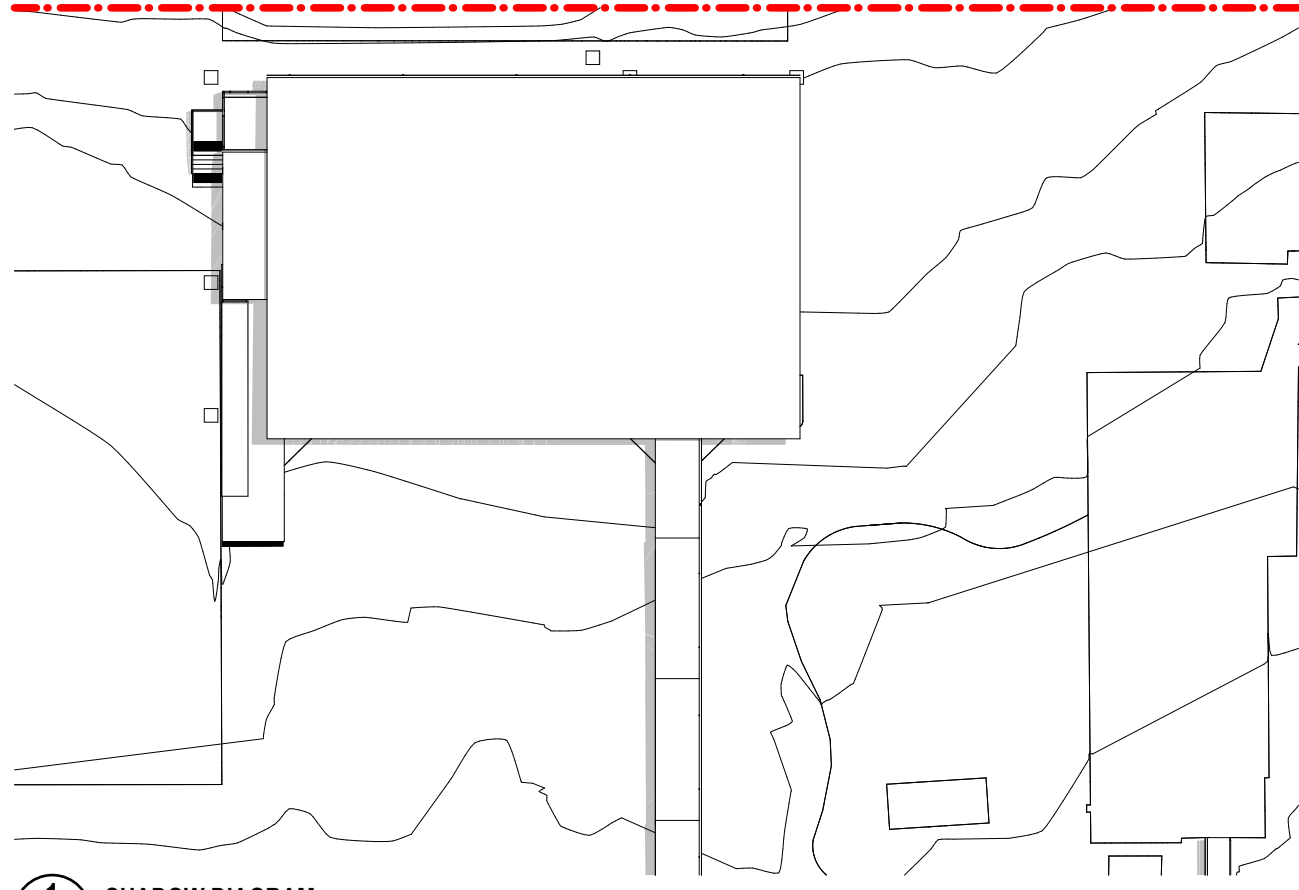
1 SHADOW DIAGRAM
December 21 9:00 a.m.
SCALE: 1:500



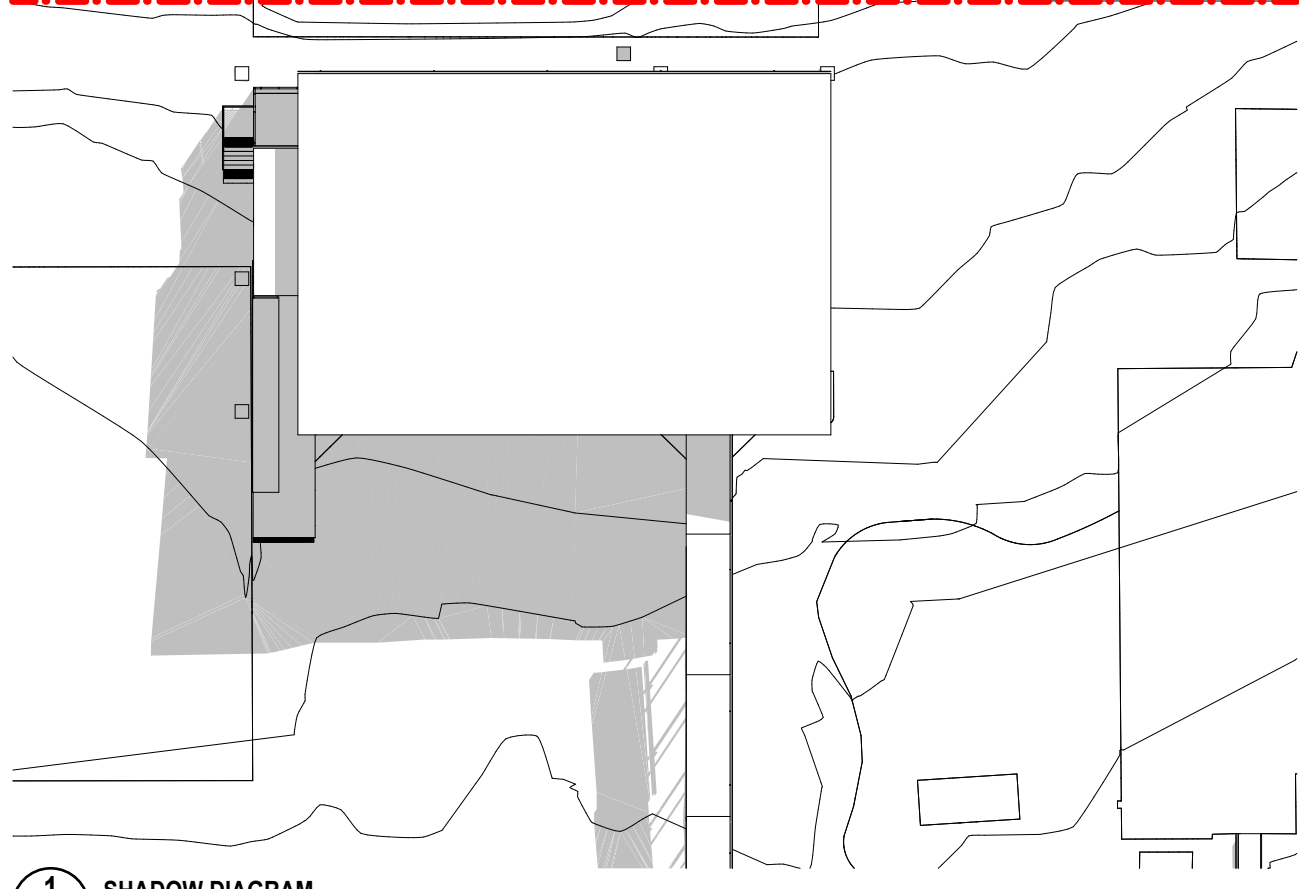
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June 21 12:00 p.m.
SCALE: 1:500



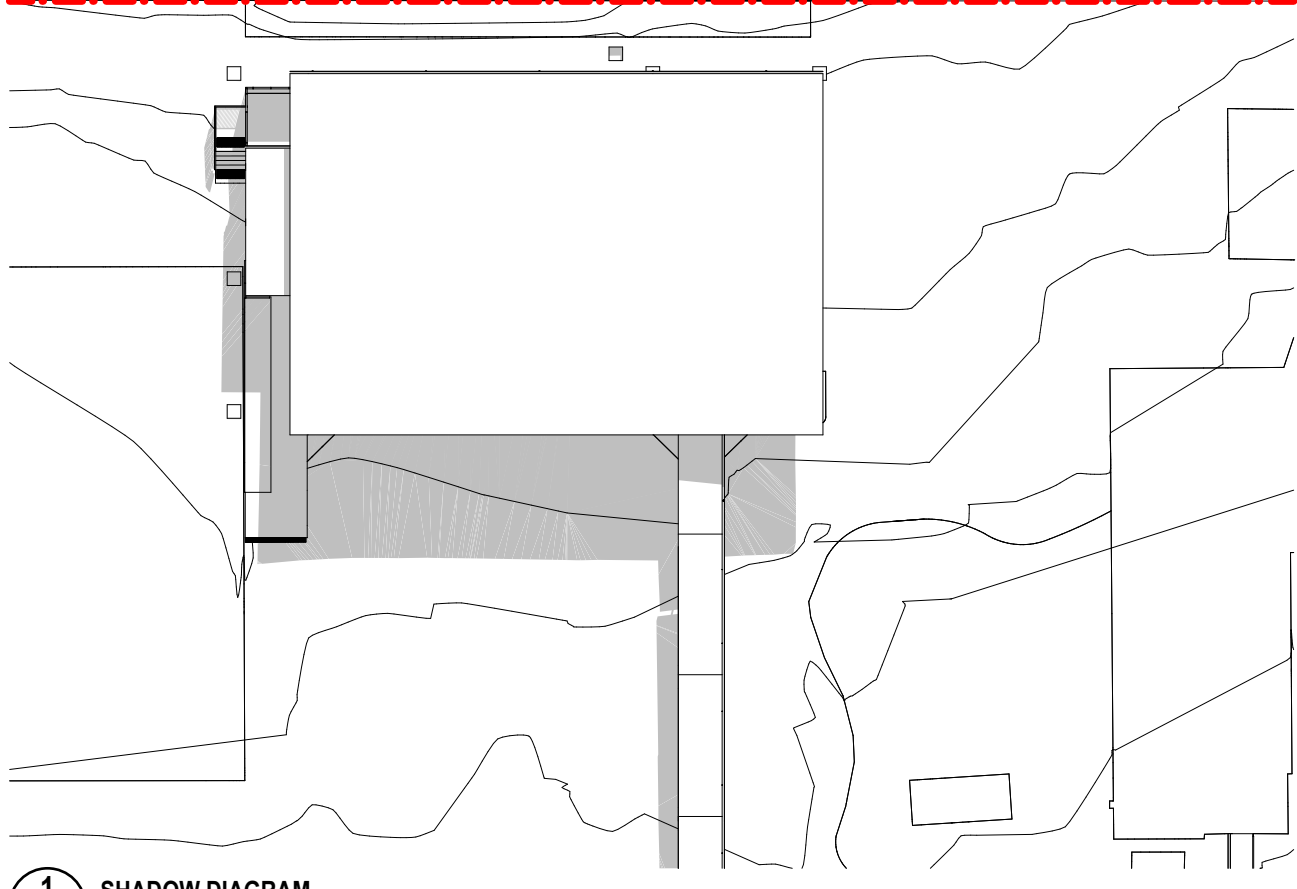
1 SHADOW DIAGRAM
September 22 12:00 p.m.
SCALE: 1:500



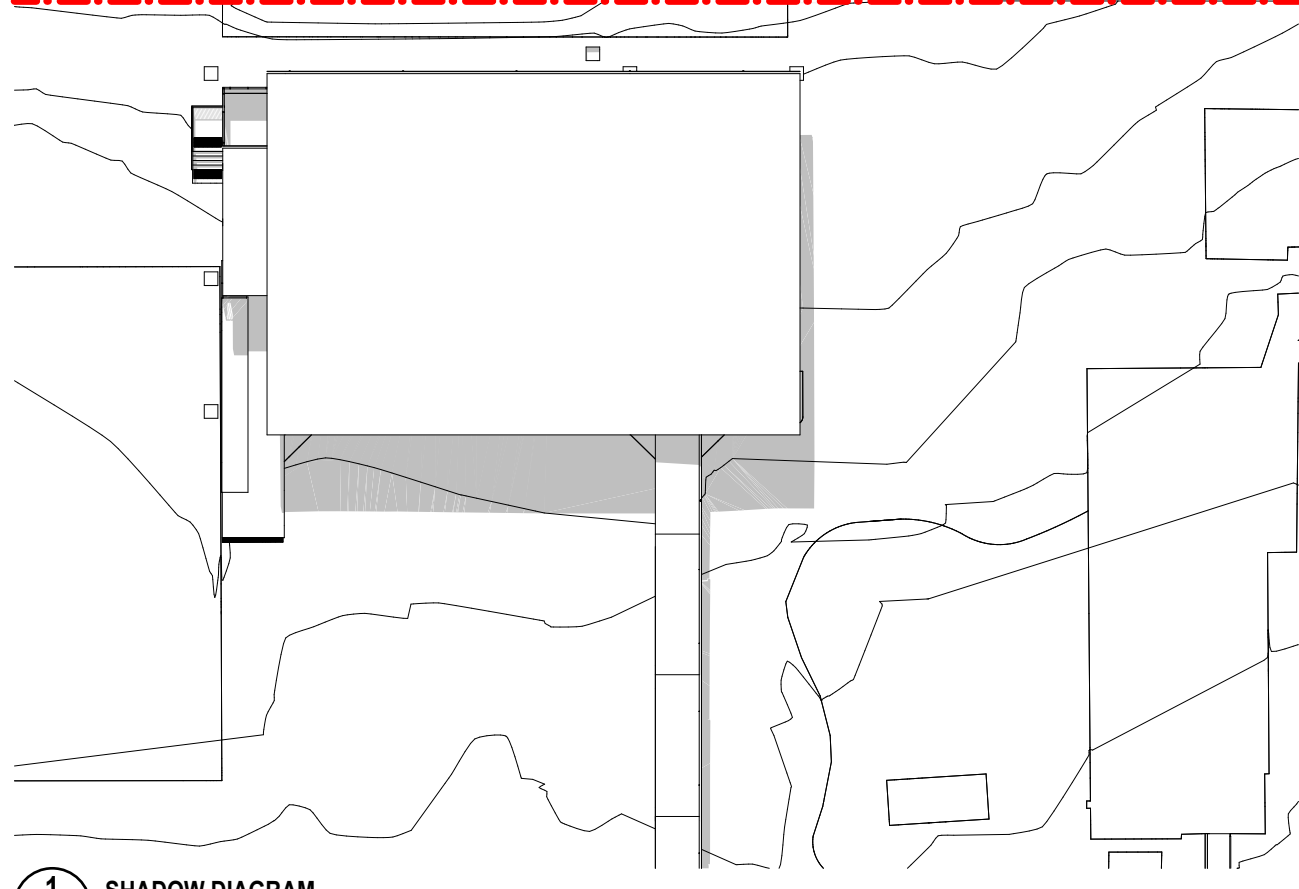
1 SHADOW DIAGRAM
December 21 12:00 p.m.
SCALE: 1:500



1 SHADOW DIAGRAM
June 21 3:00 p.m.
SCALE: 1:500



1 SHADOW DIAGRAM
September 22 3:00 p.m.
SCALE: 1:500



1 SHADOW DIAGRAM
December 21 3:00 p.m.
SCALE: 1:500

150mm @ A1
100

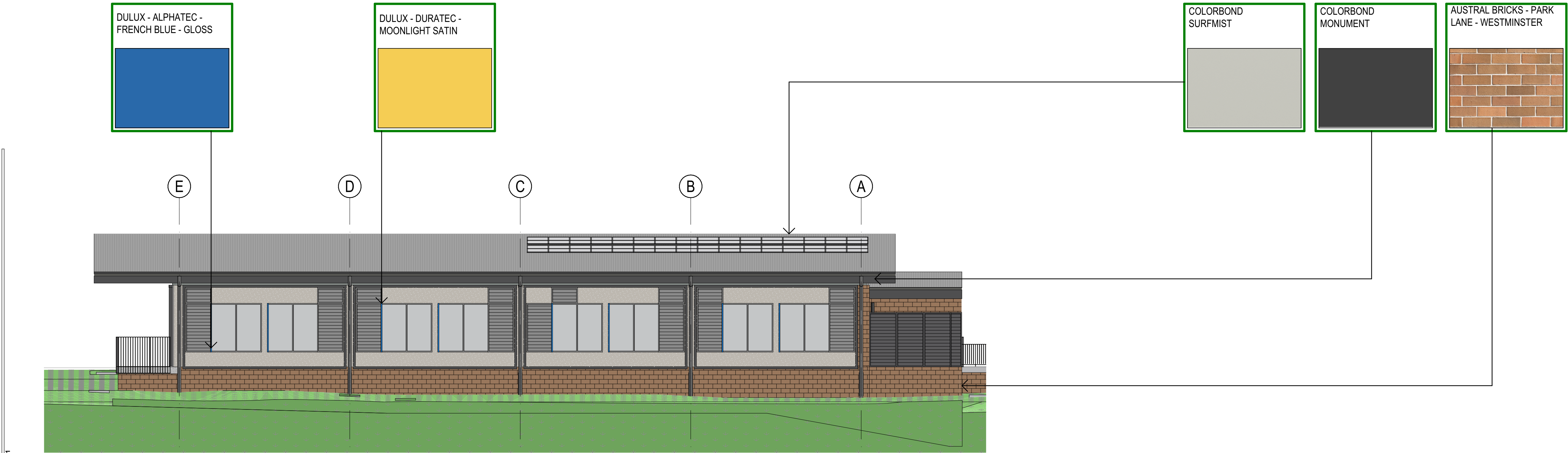
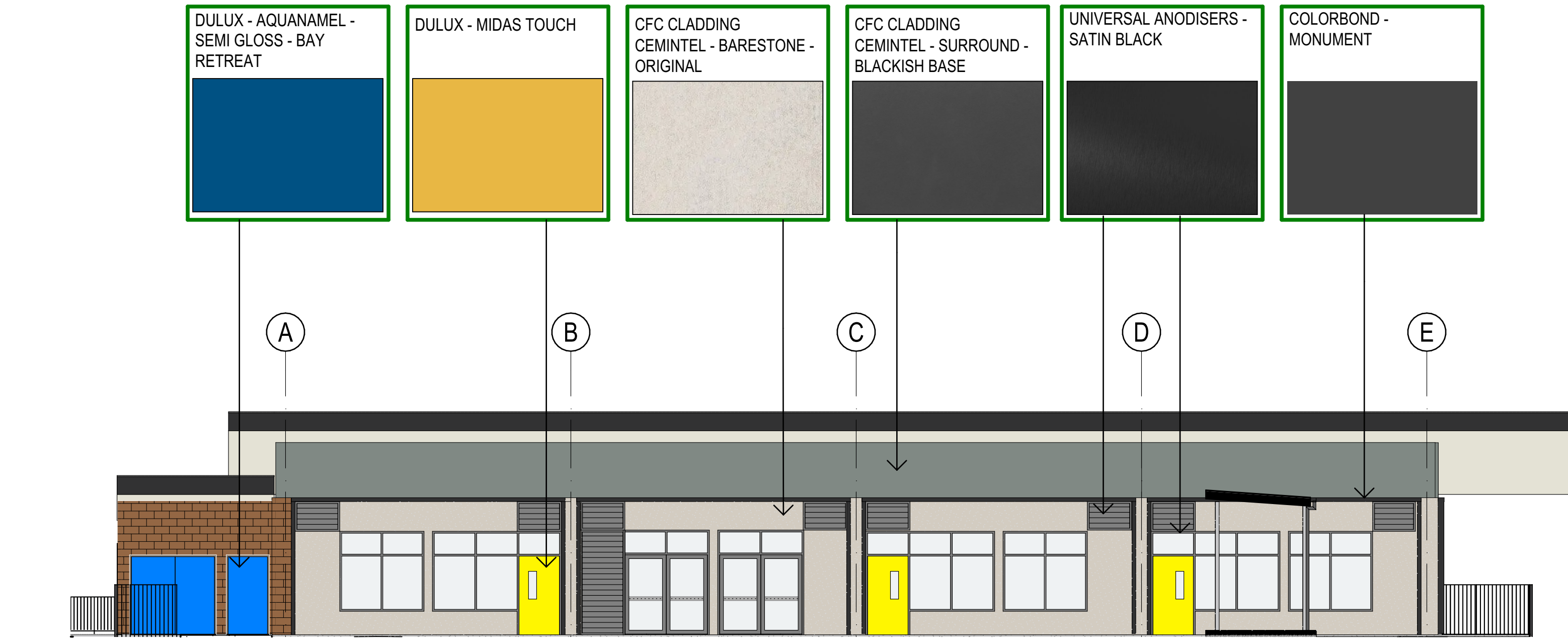
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plot date: Thursday, 19 December 2024 2:46 PM file location: BIMcloud: FTA-SYD-BIM26 - BIMcloud Basic for Archicad 26/7068ND01 Northmead Public School

REV.	DESCRIPTION	DATE	INIT.
02	100% SCHEMATIC DESIGN	19/12/2024	AK
01	95% SCHEMATIC DESIGN	10/12/2024	AK

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Paul Skovra fra QLD 4528
Ryan Lovetday fra NSW 7180
QLD 4500

DRAWING PROJECT CLIENT PHASE
SCHEMATIC DESIGN
SCHOOL INFRASTRUCTURE
NSW
NORTHMEAD PUBLIC SCHOOL
MOXHAMS ROAD,
NORTHMEAD, NSW

DRAWING
SHADOW DIAGRAMS
Figured dimensions take precedence over
scale dimensions. Contractors must verify
all dimensions on site before commencing
any work or making shop drawings.
PROJECT NUMBER DIRECTOR CHECKED
7068ND01 **JW** **NK**
DRAWING NUMBER REVISION
NPS-FTA-00-00-DR-A-1640 **02**



ALL COLOURS AND MATERIALS
ARE TO BE CONFIRMED PRIOR
TO TENDER

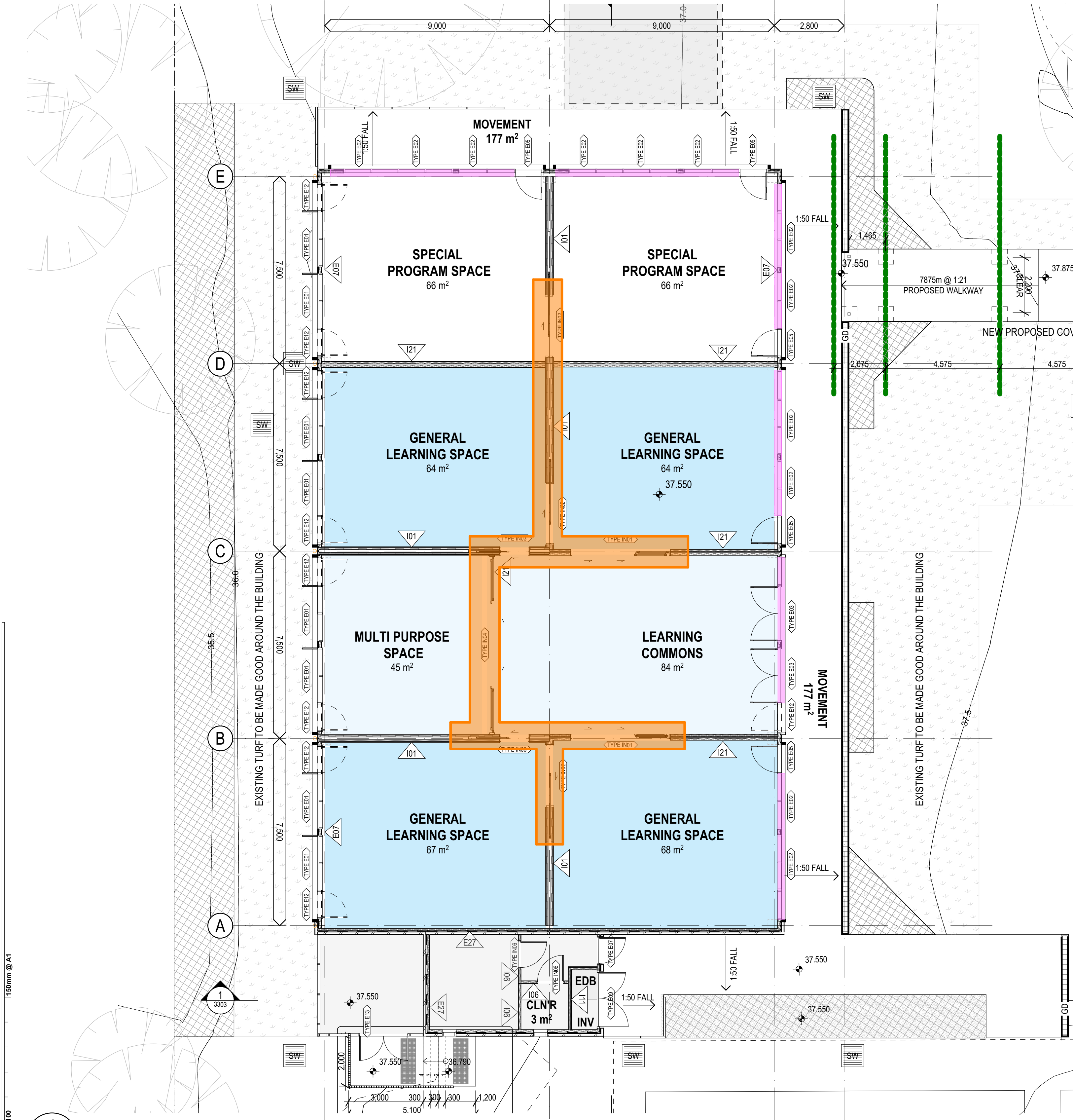
REV.	DESCRIPTION	DATE	INIT.
03	100% SCHEMATIC DESIGN	19/12/2024	AK
02	95% SCHEMATIC DESIGN	10/12/2024	AK
01	80% SCHEMATIC DESIGN	26/11/2024	AK

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Paul Spikova fraa NSW 7180 QLD 1108
Ryan Lovetday fraa QLD 4500

DRAWING PROJECT CLIENT / PHASE
PROJECT CLIENT / PHASE
NORTHMEAD PUBLIC SCHOOL
SCHEMATIC DESIGN
SCHOOL INFRASTRUCTURE
NSW
ADDRESS NORTHMEAD, NSW
MOXHAMS ROAD,
NORTHMEAD, NSW

DRAWING
EXTERNAL MATERIAL AND FINISHES
Figured dimensions take precedence over scale dimensions. Contractors must verify all dimensions on site before commencing any work or making shop drawings.
PROJECT NUMBER 7068ND01
DIRECTOR JW
CHECKED NK
DRAWING NUMBER NPS-FTA-00-00-DR-A-1630
REVISION 03



1 PLAN
INDIGENOUS ARTWORK STRATEGY

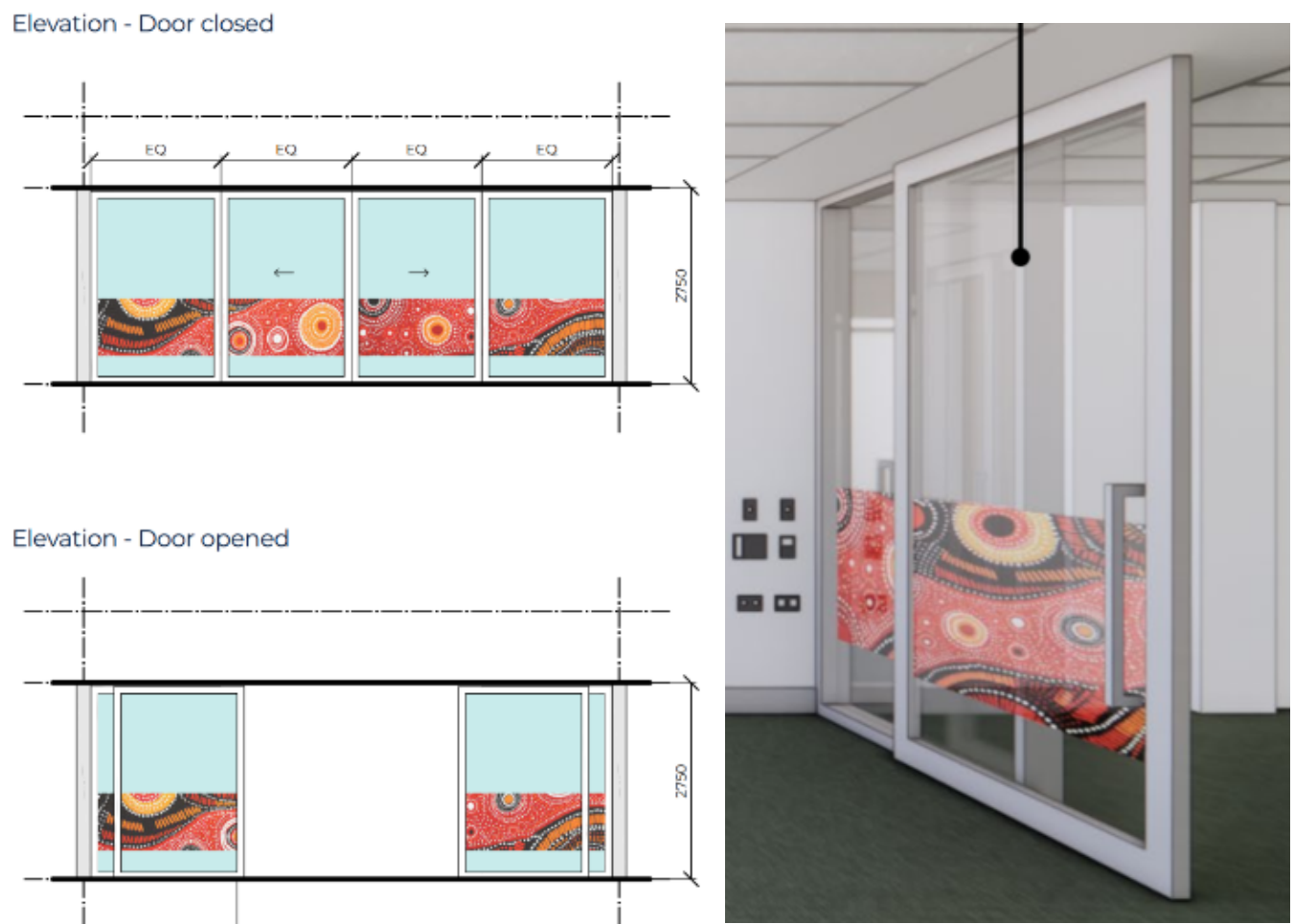
PROPOSED LOCATION FOR
INDIGENOUS ARTWORK STRATEGY:

PROPOSED - EXTERNAL LOCATIONS

DECALS ON EXTERNAL GLAZINGS

PROPOSED - INTERNAL LOCATIONS

DECALS ON ALL THE GLAZING SLIDERS -
AS PER PATTERN BOOK



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Paul Siskawa fra QLD 1108
Ryan Lovetday fra QLD 4500

SCHEMATIC DESIGN
SCHOOL INFRASTRUCTURE
NSW

NORTHMEAD PUBLIC SCHOOL

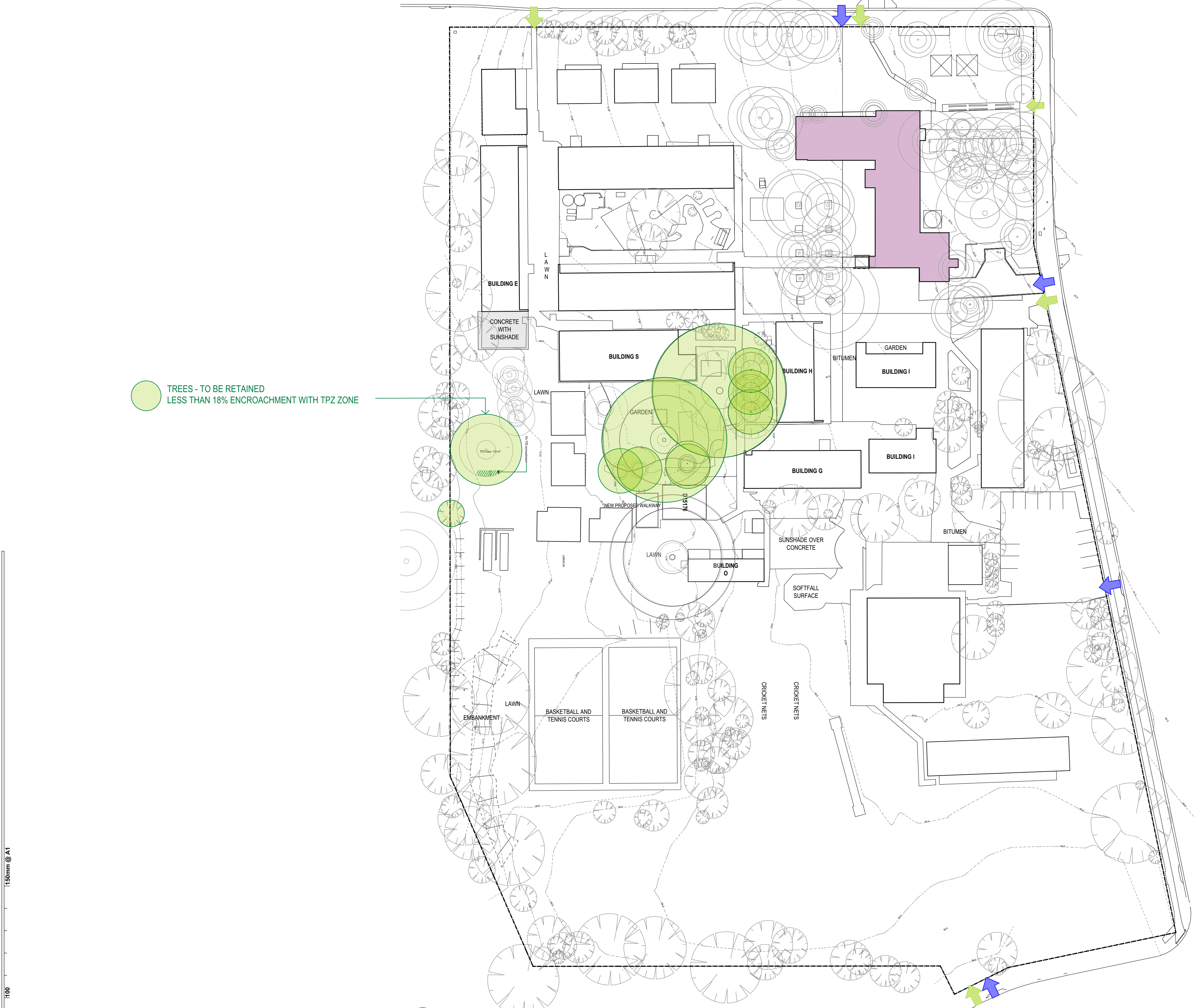
MOXHAMS ROAD,
NORTHMEAD, NSW

**INDIGENOUS ARTWORK
STRATEGY**

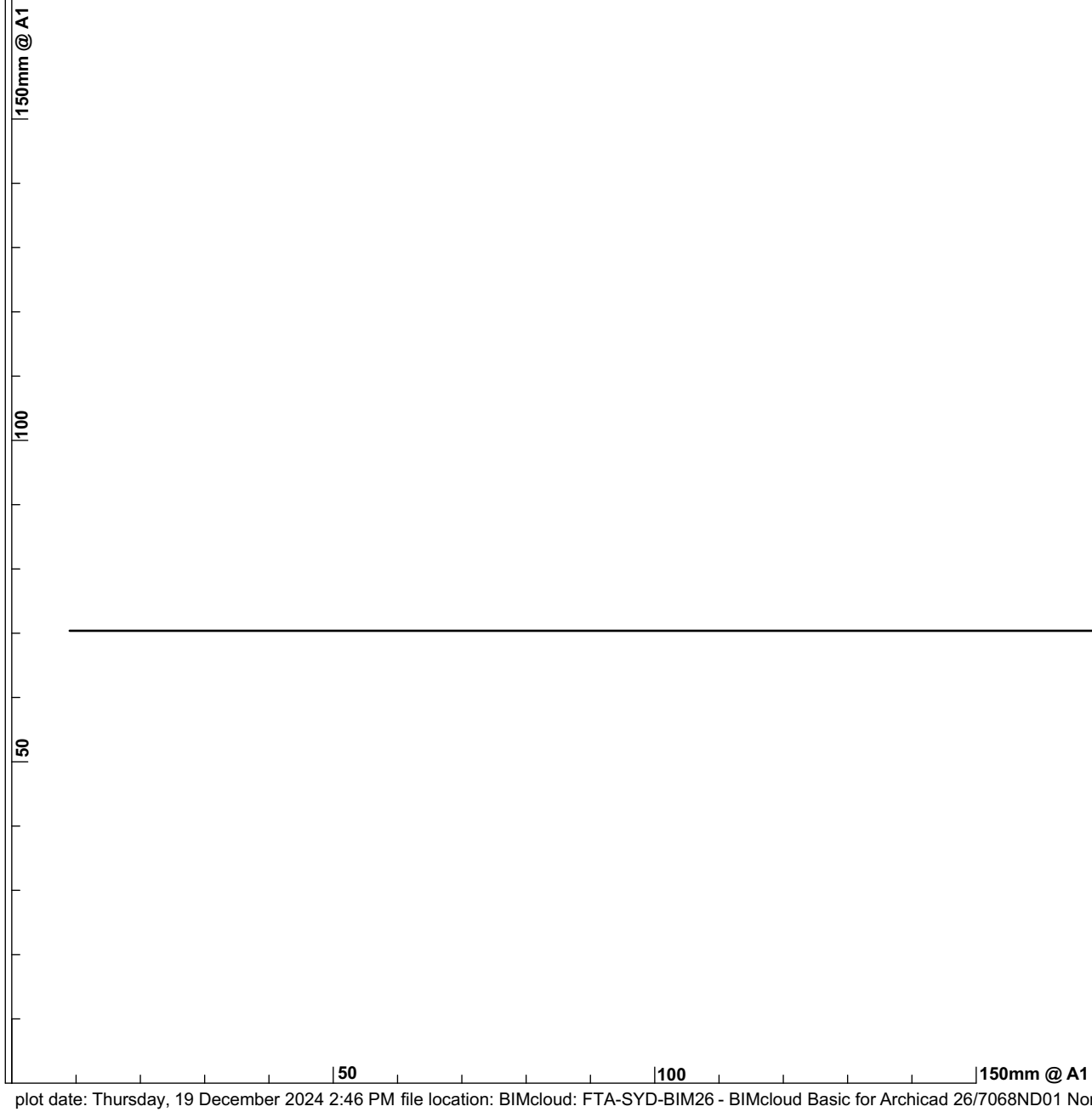
Figured dimensions take precedence over
scale dimensions. Contractors must verify
all dimensions on site before commencing
any work or making shop drawings.

PROJECT NUMBER DIRECTOR CHECKED
7068ND01 JW NK

DRAWING NUMBER REVISION
NPS-FTA-00-00-DR-A-1610 03



1 PLAN
TREE REMOVAL PLAN
SCALE: 1:500



REV.	DESCRIPTION	DATE	INIT.
02	100% SCHEMATIC DESIGN	19/12/2024	AK
01	95% SCHEMATIC DESIGN	10/12/2024	AK

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Paul Siskawa nra QLD 1108
Ryan Loveday nra QLD 4500

NSW 6855
NSW 8371
NSW 7434
NSW 7180

VIC 18804

SCHEMATIC DESIGN
SCHOOL INFRASTRUCTURE
NSW

NORTHMEAD PUBLIC SCHOOL

MOXHAMS ROAD,
NORTHMEAD, NSW

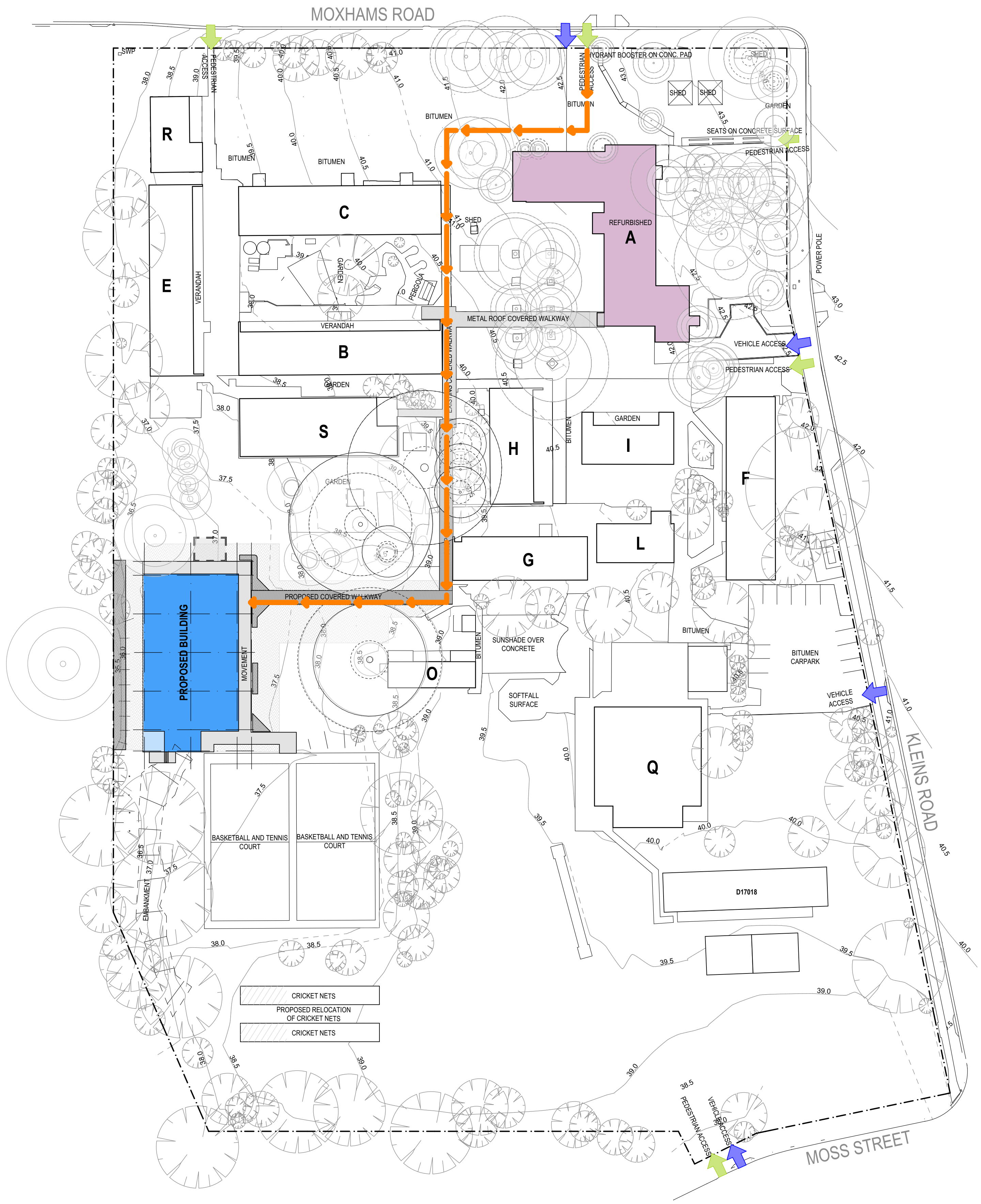
TREE REMOVAL PLAN

Figured dimensions take precedence over scale dimensions. Contractors must verify all dimensions on site before commencing any work or making shop drawings.

PROJECT NUMBER **7068ND01** DIRECTOR **JW** CHECKED **NK**

DRAWING NUMBER **NPS-FTA-00-00-DR-A-1604** REVISION **02**

1 PLAN
ACCESS STRATEGY PLAN
SCALE: 1:500



REV.	DESCRIPTION	DATE	INIT.
01	100% SCHEMATIC DESIGN	19/12/2024	NK

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Paul Siskawa fra VIC 18804 QLD 1108
Ryan Loveday fra QLD 4500

PROJECT PHASE
CLIENT SCHOOL INFRASTRUCTURE
NSW
PROJECT NORTHMEAD PUBLIC SCHOOL
ADDRESS MOXHAMS ROAD,
NORTHMEAD, NSW

ACCESS STRATEGY
Figured dimensions take precedence over
scale dimensions. Contractors must verify
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any work or making shop drawings.

PROJECT NUMBER 7068ND01
DIRECTOR JW
DRAWING NUMBER NPS-FTA-00-00-DR-A-1603
CHECKED
REVISION
01

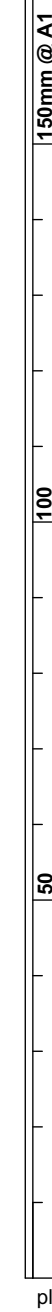


AMENITIES	EXISTING No.	POST DEMOLITION No.	EFSG No.	GAP
TOILETS - GIRLS	20	20	17	+3
TOILETS - BOYS (INCLUDING URINALS)	25	25	15	+5
TOILETS - ACC	1	1	6	-5
TOILETS - STAFF	5	5	-	-
BUBBLER	41	41	29	+12

Calculation Basis:

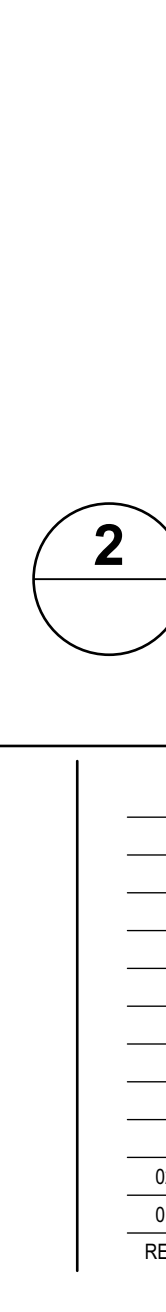
- 26 TS of max 44 TS for Large core size schools
- School Size Ratio = 26 TS / 44 TS = 0.590
- Boys and girls toilets calculated based on pro rata basis compared to full large sized school:
 - o 17 girls toilets
 - o 15 boys toilets
 - o 32 total toilets

Amenities	Existing No.	Pro rata EFSG No. as per 26TS	Gap
Toilets – Girls	20	17	+3
Toilets – Boys (including urinals)	25	15	+10



EXISTING PLAYSACE AREA CALCULATIONS

*STUDENT/SQM CALCULATION IS BASED ON A PROPOSED STUDENT POPULATION OF 552



PROPOSED PLAYSPACE AREA CALCULATIONS

*STUDENT/SQM CALCULATION IS BASED ON A PROPOSED STUDENT POPULATION OF 720

02



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Ryan Loveday nra QLD 4500

SCHEMATIC DESIGN
SCHOOL INFRASTRUCTURE
NSW

NORTHMEAD PUBLIC SCHOOL

MOXHAMS ROAD,
NORTHMEAD, NSW

PROPOSED STAGING PLAN 03

Figured dimensions take precedence over scale dimensions. Contractors must verify all dimensions on site before commencing any work or making shop drawings.

PROJECT NUMBER **7068ND01** DIRECTOR **JW** CHECKED **NK**

DRAWING NUMBER **NPS-FTA-00-00-DR-A-1503** REVISION **03**



- CONSTRUCT THE NEW BUILDING
- PART OF REFURB WORK

03	100% SCHEMATIC DESIGN	19/12/2024	AK
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01	80% SCHEMATIC DESIGN	26/11/2024	AK
P3	100% CONCEPT DESIGN	31/10/2024	NK
P2	80% CONCEPT DESIGN	18/10/2024	AK
P1	FOR INFORMATION	11/10/2024	AK
REV	DESCRIPTION	DATE	INIT.

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Ryann Lowndes fraia

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NSW 8585
NSW 8071
NSW 7438
NSW 7180

QLD 3200
QLD 3313
QLD 3847
QLD 4509
QLD 4509

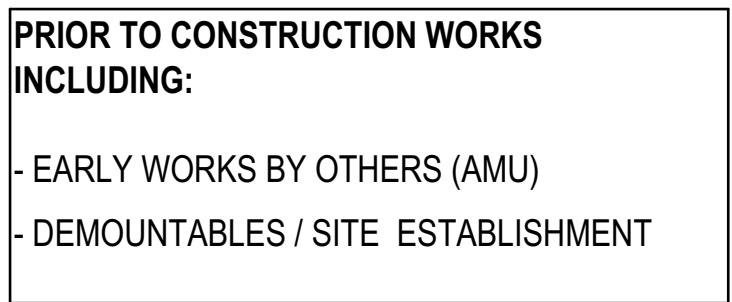
PHASE
CLIENT
PROJECT
ADDRESS

SCHEMATIC DESIGN
SCHOOL INFRASTRUCTURE
NSW

NORTHMEAD PUBLIC SCHOOL

MOXHAMS ROAD,
NORTHMEAD, NSW

DRAWING	PROPOSED STAGING PLAN 02		
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PROJECT NUMBER	DIRECTOR		
7068ND01	JW		CHECKED NK
DRAWING NUMBER			REVISION
NPS-FTA-00-00-DR-A-1502			03



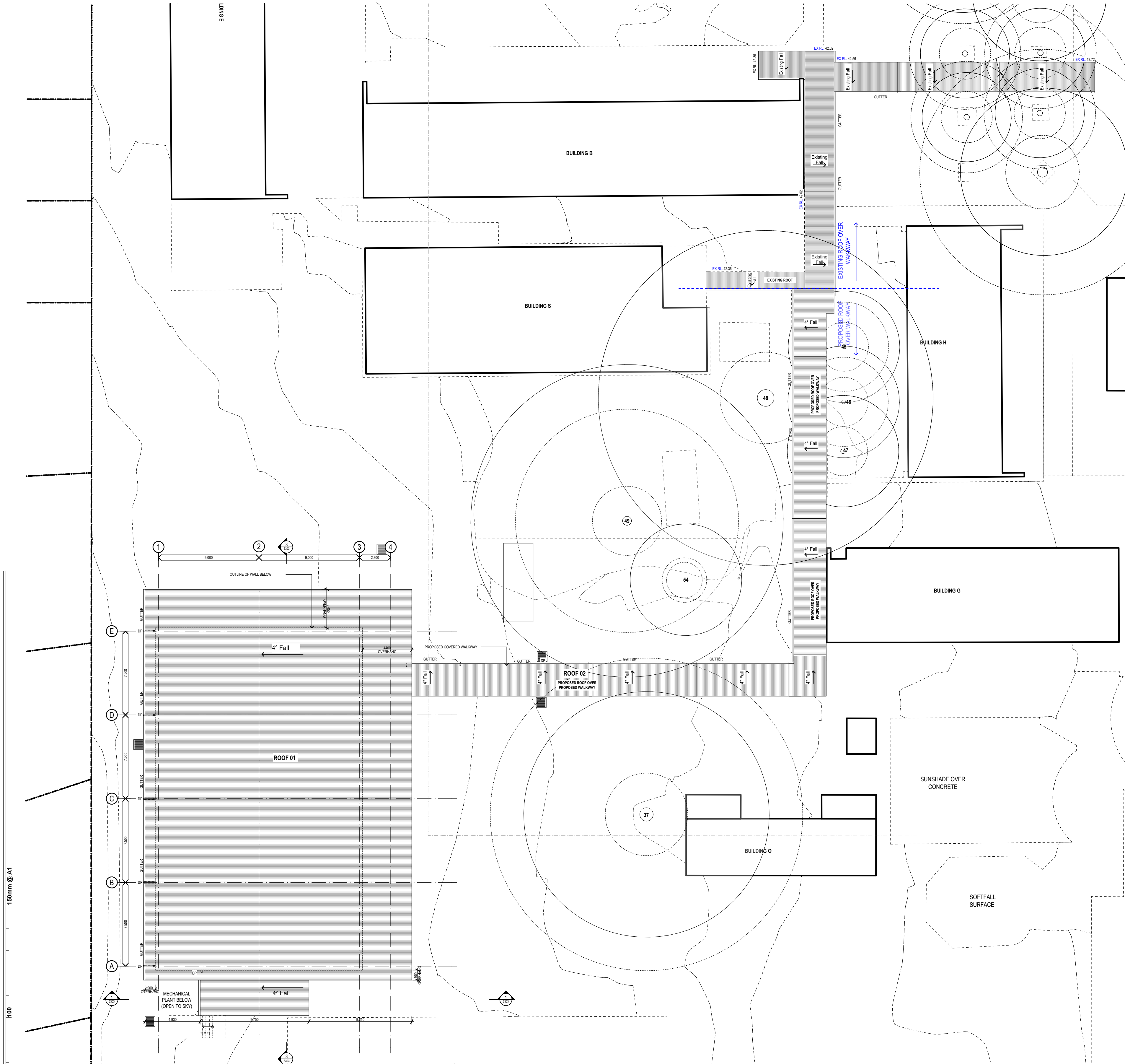
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100

50

50 100 150mm @ A1

plot date: Thursday, 19 December 2024 2:45 PM file location: BIMcloud: FTA-SYD-BIM26 - BIMcloud Basic for Archicad 26/7068ND01 Northmead Public School



1 PLAN
COVERED WALKWAY ROOF PLAN
SCALE: 1:200

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Katerina Diacopoulos fraa	NSW 7434	QLD 4528	
Paul Skelton fraa	VIC 18804	QLD 1108	
Ryan Lovetday fraa		QLD 4500	

PROJECT CLIENT / PHASE
SCHEMATIC DESIGN
SCHOOL INFRASTRUCTURE
NSW

ADDRESS PROJECT CLIENT / PHASE
NORTHMEAD PUBLIC SCHOOL
MOXHAMS ROAD,
NORTHMEAD, NSW

PROPOSED COVERED
WALKWAY - ROOF

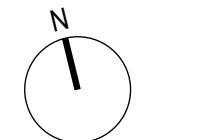
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scale dimensions. Contractors must verify
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any work or making shop drawings.

PROJECT NUMBER
7068ND01

DRAWING NUMBER
NPS-FTA-00-00-DR-A-1403

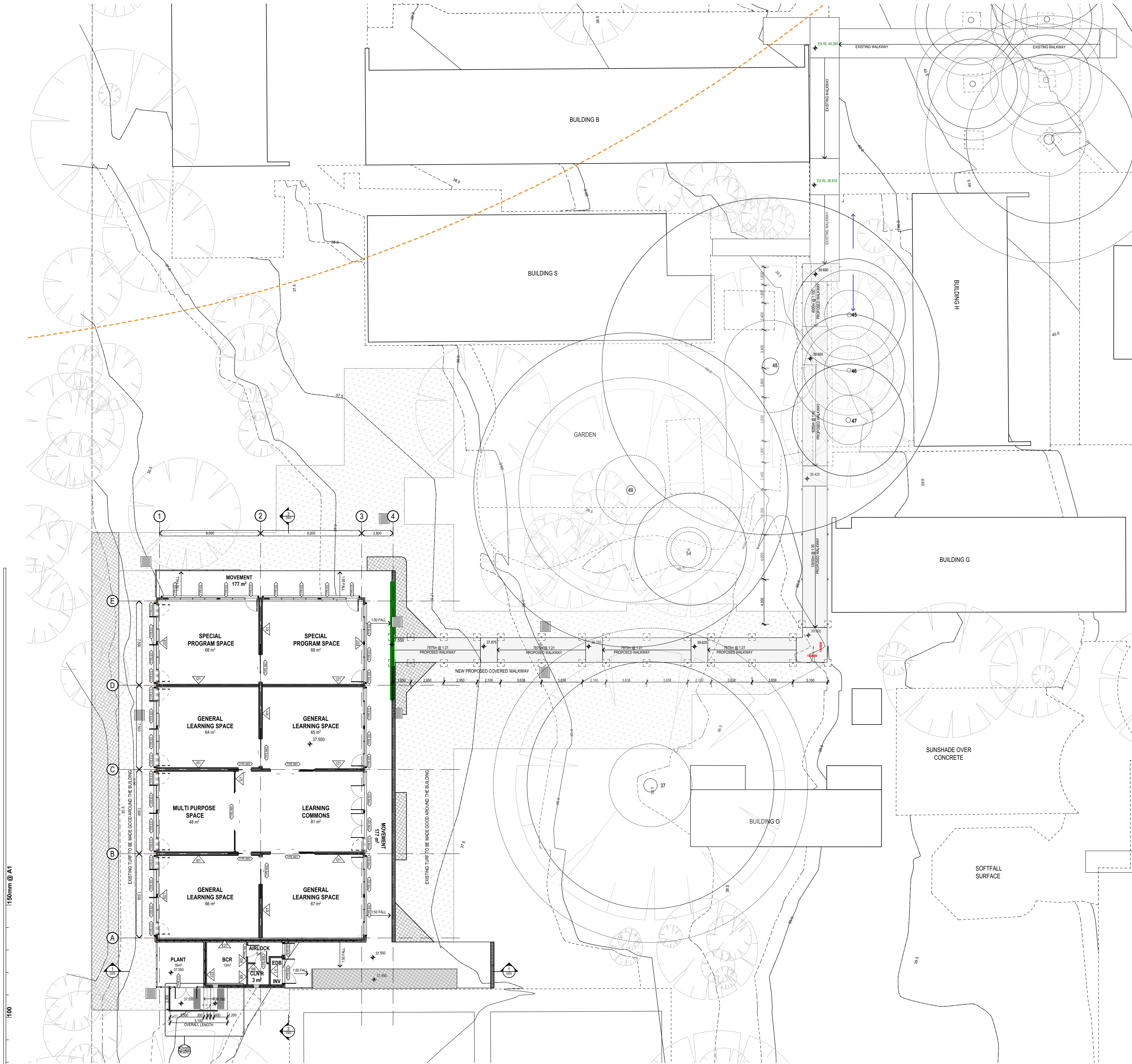
DIRECTOR
JW

REVISION



CHECKED
NK

02



1 PLAN
COVERED WALKWAY - GROUND PLAN
SCALE: 1:200

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Ryan Lovetday fra QLD 4500

PROJECT CLIENT / PHASE
SCHEMATIC DESIGN
SCHOOL INFRASTRUCTURE
NSW

PROJECT
NORTHMEAD PUBLIC SCHOOL
ADDRESS
MOXHAMS ROAD,
NORTHMEAD, NSW

PROPOSED COVERED WALKWAY

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PROJECT NUMBER

7068ND01

DIRECTOR

JW

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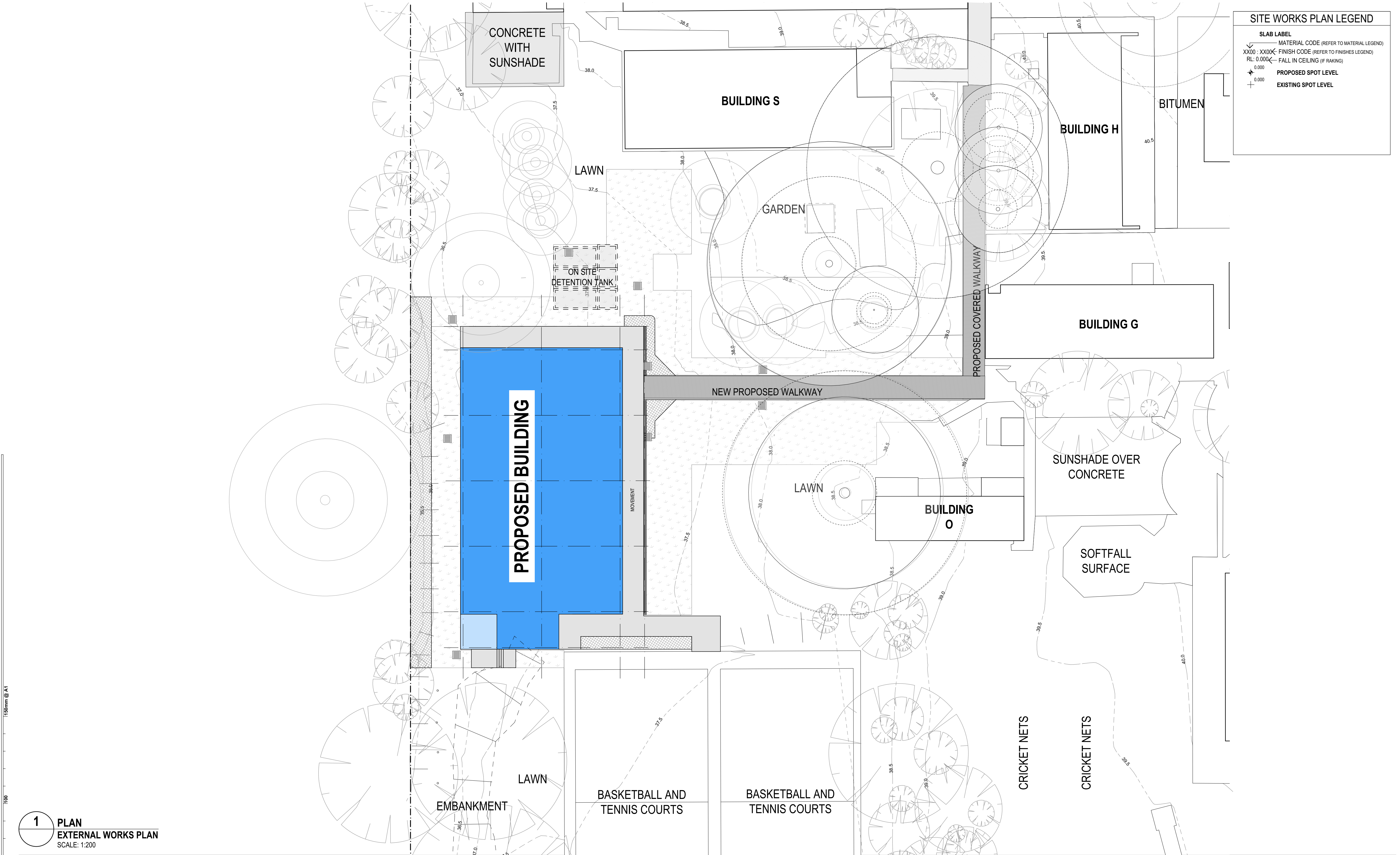
NK

DRAWING NUMBER

NPS-FTA-00-00-DR-A-1402

REVISION

02



SITE WORKS PLAN LEGEND

SLAB LABEL

↙

MATERIAL CODE (REFER TO MATERIAL LEGEND)

XX00 : XX00

FINISH CODE (REFER TO FINISHES LEGEND)

RL: 0.000

FALL IN CEILING (IF RAKING)

0.000

PROPOSED SPOT LEVEL

0.000

EXISTING SPOT LEVEL

1

PLAN

EXTERNAL WORKS PLAN

SCALE: 1:200

150mm @ A1

100

50

REV.	DESCRIPTION	DATE	INIT.
03	100% SCHEMATIC DESIGN	19/12/2024	AK
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01	80% SCHEMATIC DESIGN	26/11/2024	AK
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QLD 2500

QLD 3313

NSW 8371

NSW 7434

NSW 7180

VIC 18804

QLD 3847

QLD 4528

QLD 1108

QLD 4500

DRAWING

PROJECT CLIENT PHASE

SCHEMATIC DESIGN

SCHOOL INFRASTRUCTURE

NSW

NORTHMEAD PUBLIC SCHOOL

MOXHAMS ROAD,

NORTHMEAD, NSW

EXTERNAL WORKS PLAN

Figured dimensions take precedence over scale dimensions. Contractors must verify all dimensions on site before commencing any work or making shop drawings.

PROJECT NUMBER

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DIRECTOR

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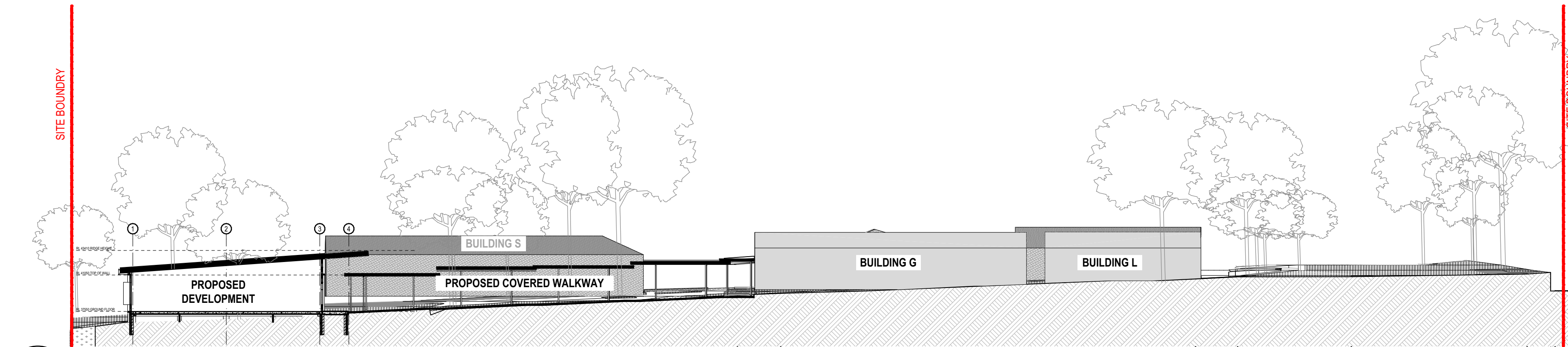
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DRAWING NUMBER

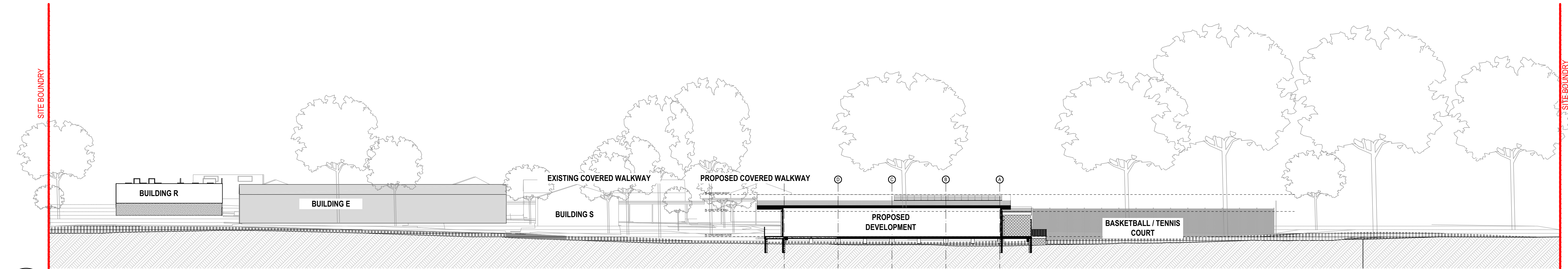
NPS-FTA-00-00-DR-A-1401

REVISION

03



1 SECTION
SITE SECTION A



2 SECTION
SITE SECTION B

150mm @ A1
100
50
150mm @ A1
100
50
150mm @ A1

plot date: Thursday, 19 December 2024 2:45 PM file location: BIMcloud: FTA-SYD-BIM26 - BIMcloud Basic for Archicad 26/7068ND01 Northmead Public School

REV.	DESCRIPTION	DATE	INIT.
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01	95% SCHEMATIC DESIGN	10/12/2024	AK

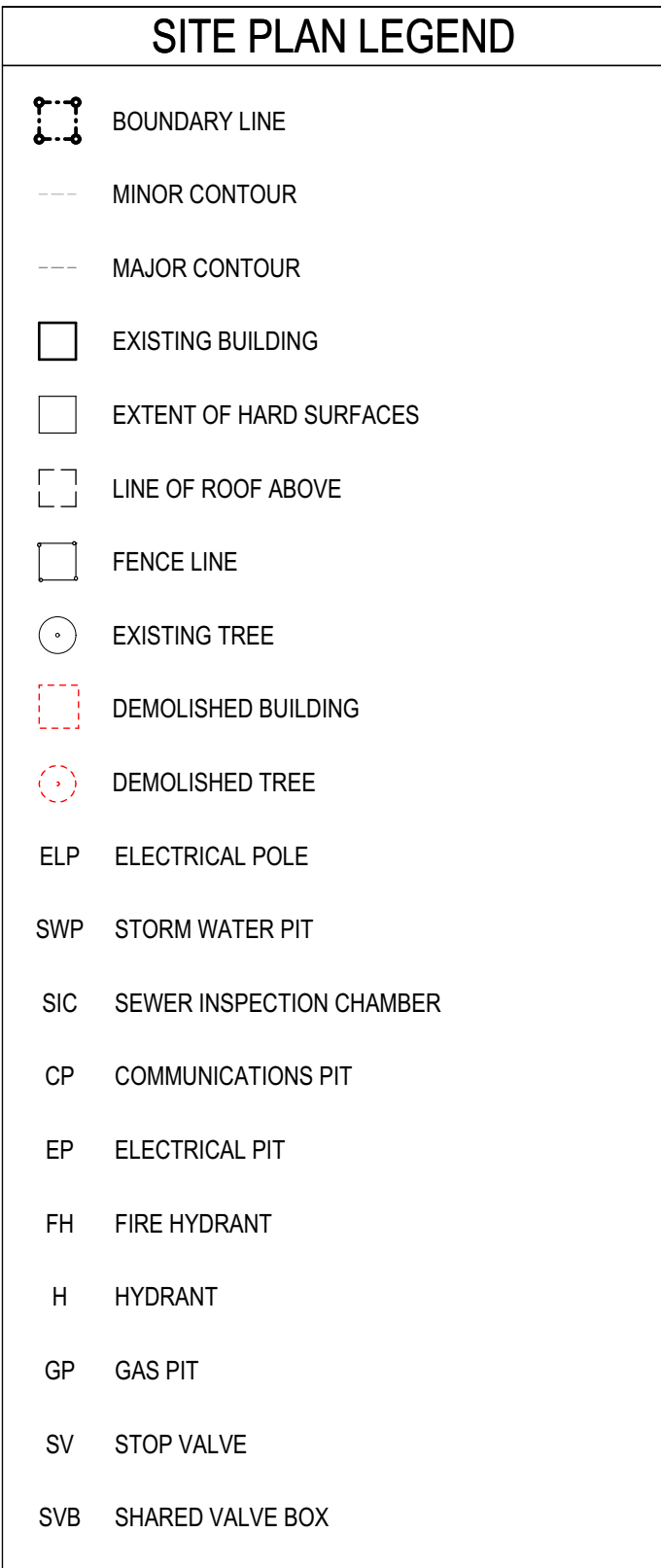
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	Ryan Lovetay fra		QLD 4500

DRAWING / PHASE
CLIENT / PROJECT
NORTHMEAD PUBLIC SCHOOL
SCHEMATIC DESIGN
SCHOOL INFRASTRUCTURE
NSW
ADDRESS
MOXHAMS ROAD,
NORTHMEAD, NSW

DRAWING
SITE SECTIONS
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PROJECT NUMBER	DIRECTOR	CHECKED
7068ND01	JW	
DRAWING NUMBER	REVISION	
NPS-FTA-00-00-DR-A-1201		02



50 100 150mm @ A1

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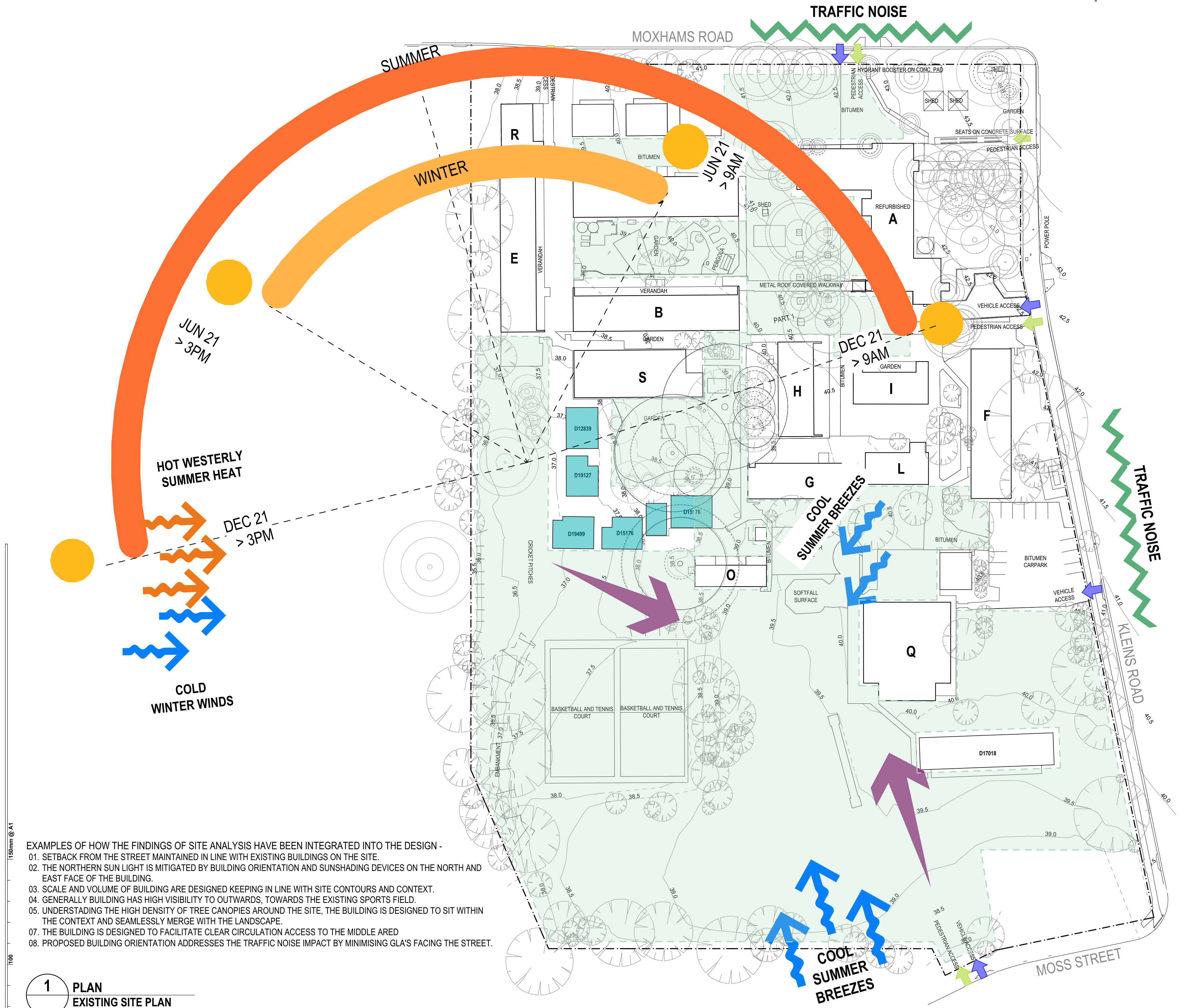
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Ryann Lowndes fraia

VIC 18004
NSW 8585
NSW 8071
NSW 7434
NSW 7180

QLD 3200
QLD 3313
QLD 3847
QLD 4509
QLD 4509

PROPOSED SITE PLAN			
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PROJECT NUMBER	DIRECTOR		
7068ND01	JW	CHECKED	NK
DRAWING NUMBER	REVISION		
NPS-FTA-00-00-DR-A-1101			04



- EXAMPLES OF HOW THE FINDINGS OF SITE ANALYSIS HAVE BEEN INTEGRATED INTO THE DESIGN -
01. SETBACK FROM THE STREET MAINTAINED IN LINE WITH EXISTING BUILDINGS ON THE SITE.
 02. THE NORTHERN SUN LIGHT IS MITIGATED BY BUILDING ORIENTATION AND SUNSHADING DEVICES ON THE NORTH AND EAST FACE OF THE BUILDING.
 03. SCALE AND VOLUME OF BUILDING ARE DESIGNED KEEPING IN LINE WITH SITE CONTOURS AND CONTEXT.
 04. GENERALLY BUILDING HAS HIGH VISIBILITY TO OUTWARDS, TOWARDS THE EXISTING SPORTS FIELD.
 05. UNDERSTADING THE HIGH DENSITY OF TREE CANOPIES AROUND THE SITE, THE BUILDING IS DESIGNED TO SIT WITHIN THE CONTEXT AND SEAMLESSLY MERGE WITH THE LANDSCAPE.
 07. THE BUILDING IS DESIGNED TO FACILITATE CLEAR CIRCULATION ACCESS TO THE MIDDLE ARED
 08. PROPOSED BUILDING ORIENTATION ADDRESSES THE TRAFFIC NOISE IMPACT BY MINIMISING GLA'S FACING THE STREET.

1 PLAN
EXISTING SITE PLAN
SCALE: 1:500

SITE PLAN LEGEND	
	BOUNDARY LINE
	MINOR CONTOUR
	MAJOR CONTOUR
	EXISTING BUILDING
	EXTENT OF HARD SURFACES
	LINE OF ROOF ABOVE
	FENCE LINE
	EXISTING TREE
	DEMOLISHED BUILDING
	DEMOLISHED TREE
ELP	ELECTRICAL POLE
SWP	STORM WATER PIT
SIC	SEWER INSPECTION CHAMBER
CP	COMMUNICATIONS PIT
EP	ELECTRICAL PIT
FH	FIRE HYDRANT
H	HYDRANT
GP	GAS PIT
SV	STOP VALVE
SVB	SHARED VALVE BOX



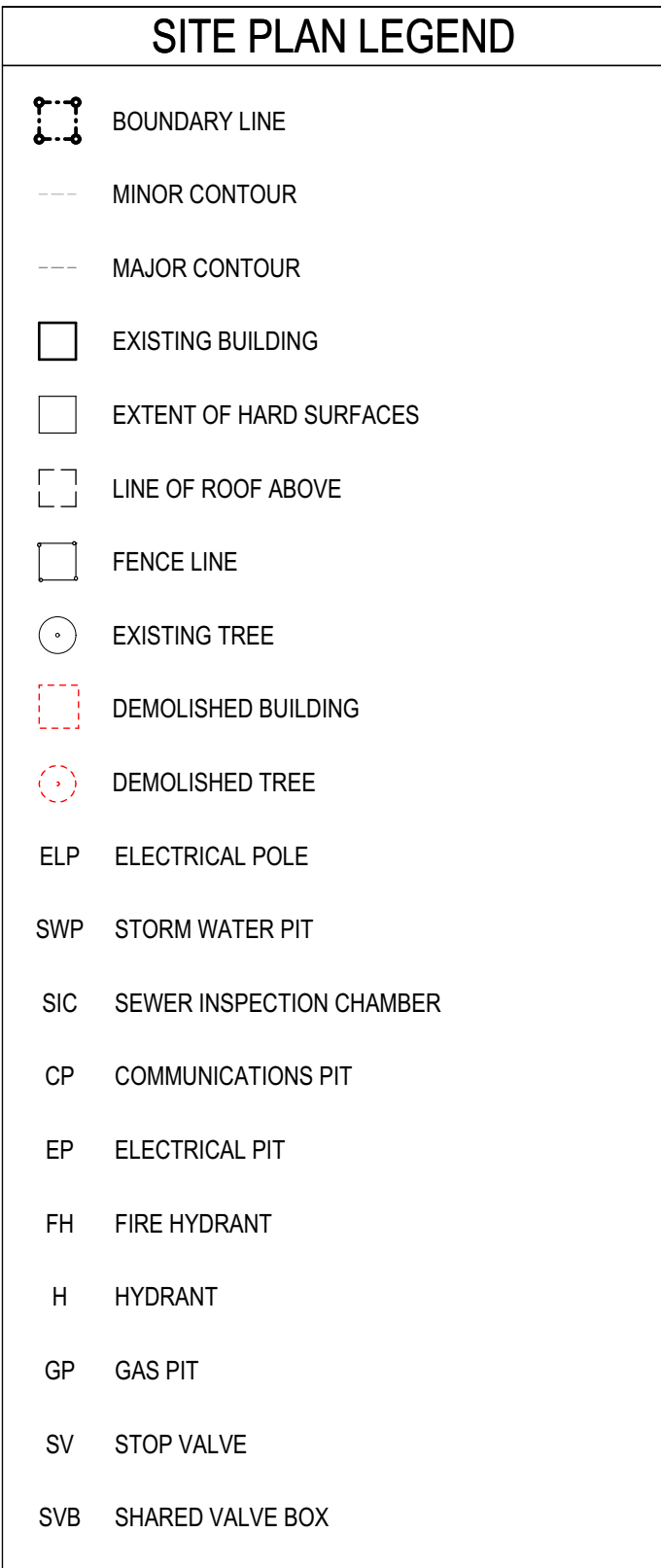
SITE ANALYSIS LEGEND	
	VEHICLE ACCESS
	PEDESTRIAN ACCESS
	SUN
	BREEZE
	HEAT
	VIEW
	PLAY SPACE
	DEMOUNTABLE

REV.	DESCRIPTION	DATE	INIT.
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02	95% SCHEMATIC DESIGN	10/12/2024	AK
01	80% SCHEMATIC DESIGN	26/11/2024	AK

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DRAWING PROJECT CLIENT PHASE
SCHEMATIC DESIGN
SCHOOL INFRASTRUCTURE
NSW
NORTHMEAD PUBLIC SCHOOL
MOXHAMS ROAD,
NORTHMEAD, NSW

DRAWING
SITE ANALYSIS PLAN
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PROJECT NUMBER
7068ND01
DIRECTOR
JW
CHECKED
NK
DRAWING NUMBER
NPS-FTA-00-00-DR-A-1003
REVISION
03



50 100 150mm @ A1

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Ryann Lowndes fraia

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NSW 8585
NSW 8071
NSW 7434
NSW 7180

QLD 3200
QLD 3313
QLD 3847
QLD 4509
QLD 4509

DRAWING

DEMOLITION PLAN

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PROJECT NUMBER

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DIRECTOR

JW

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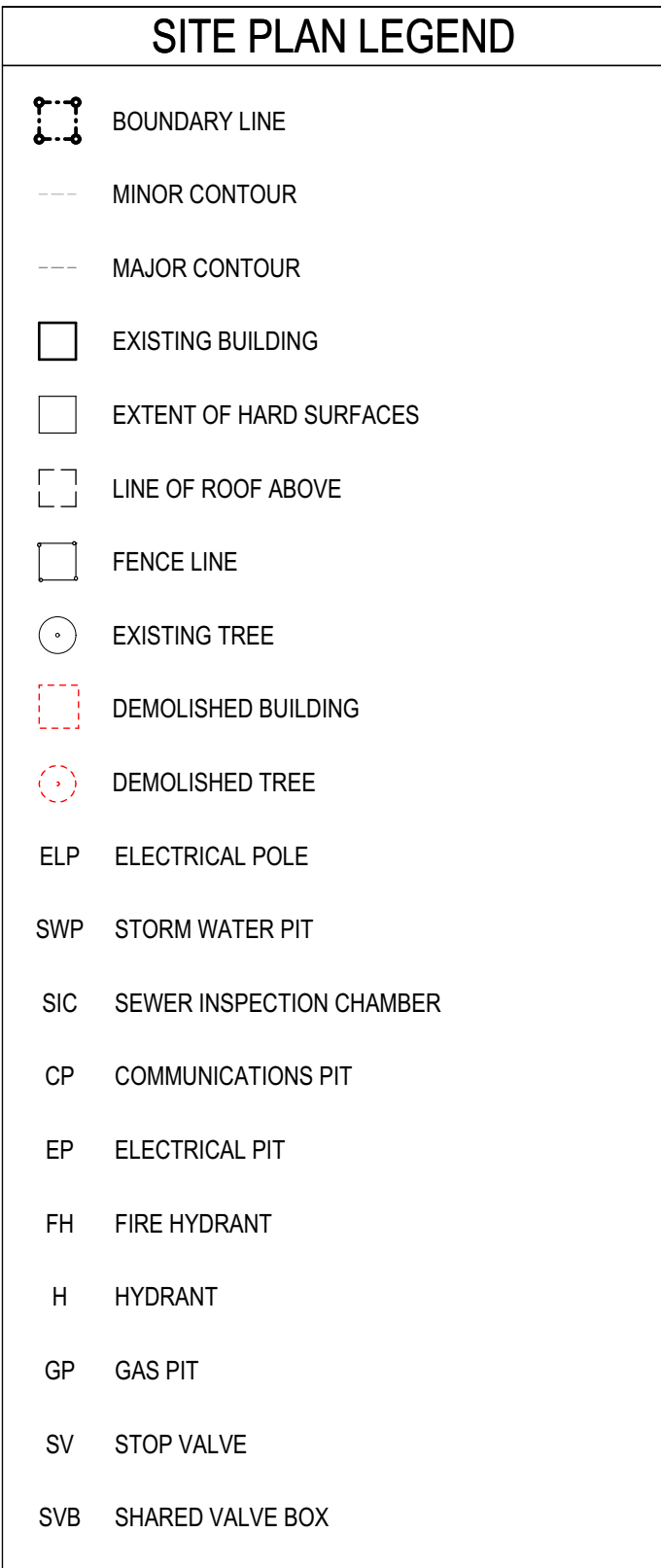
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REVISION

03



150mm @ A1



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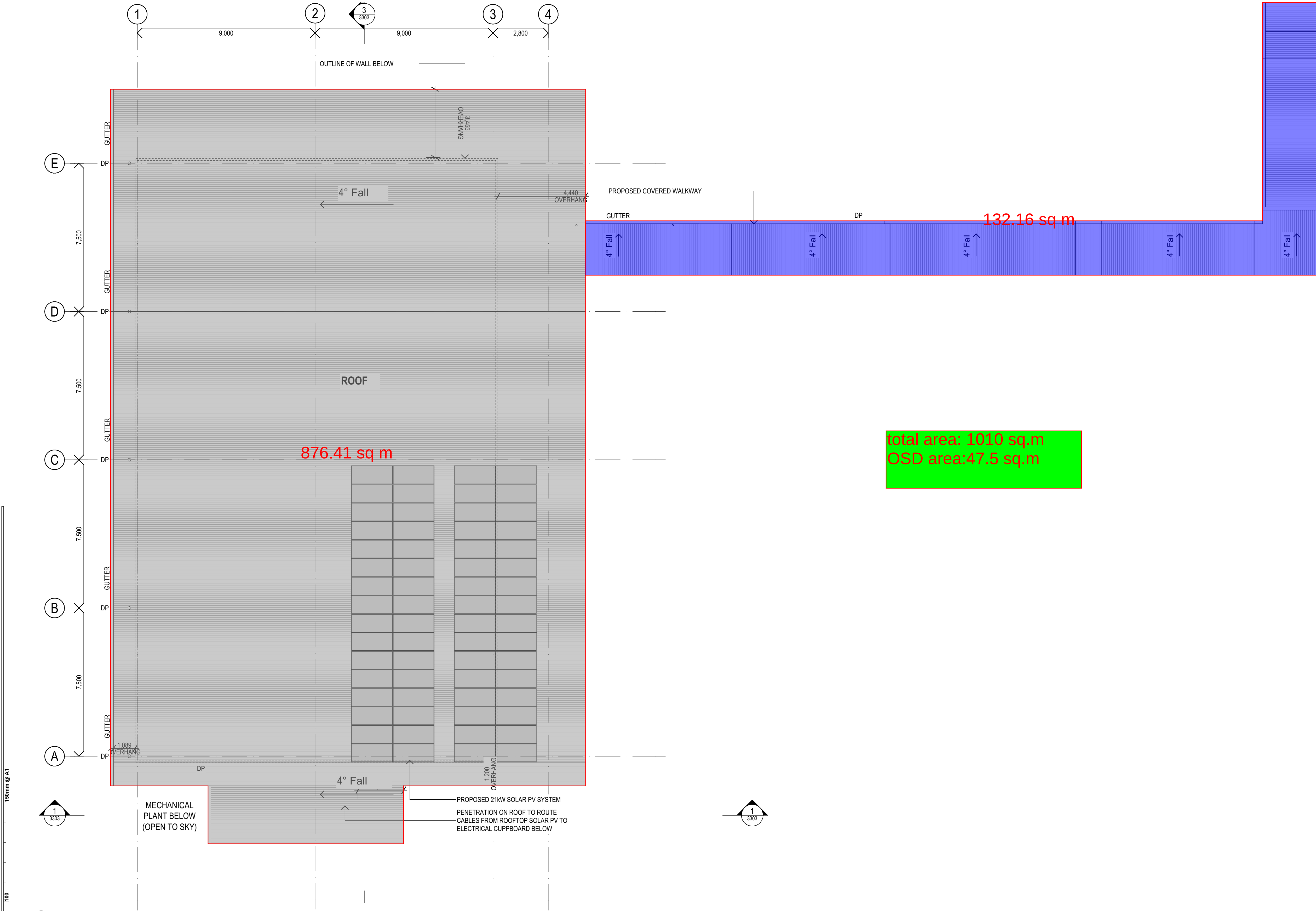
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John Ward raja	NSW 8371	02 3187
Katerina Onoufropoulos raja	NSW 7454	02 4529
Paul Seakwa raja	NSW 7180	02 3048
Robert Lundgren raja		02 3048

EXISTING SITE PLAN			
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PROJECT NUMBER	DIRECTOR	CHECKED	
7068ND01	JW	NK	
DRAWING NUMBER	REVISION		
NPS-FTA-00-00-DR-A-1001	04		

Appendix C – Catchment Plan



PLAN LEGEND	
	DOOR LABEL
	WINDOW LABEL
	EXTERNAL WALL TYPE LABEL
	INTERNAL WALL TYPE LABEL

FLOOR PLAN MATERIAL LEGEND	
ARCH - SD	

2 PLAN
FLOOR PLAN ROOF
SCALE: 1:100

REV.	DESCRIPTION	DATE	INIT.
03	95% SCHEMATIC DESIGN	10/12/2024	AK
02	80% SCHEMATIC DESIGN	26/11/2024	AK
01	SD-01 - 50% SCHEMATIC DESIGN	15/11/2024	AK
P4	100% CONCEPT DESIGN	31/10/2024	NK
P3	80% CONCEPT DESIGN	18/10/2024	AK
P2	FOR INFORMATION	27/09/2024	AK
P1	FOR INFORMATION	20/09/2024	AK

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Ryan Lovetday fra QLD 4500

NSW 6855
NSW 8371
NSW 7434
NSW 7180

VIC 18804

DRAWING PROJECT CLIENT / PHASE
SCHEMATIC DESIGN
SCHOOL INFRASTRUCTURE
NSW
NORTHMEAD PUBLIC SCHOOL
MOXHAMS ROAD,
NORTHMEAD, NSW

DRAWING **BUILDING T - ROOF PLAN**
Figured dimensions take precedence over
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any work or making shop drawings.

PROJECT NUMBER **7068ND01** DIRECTOR **JW** CHECKED **NK**
DRAWING NUMBER **NPS-FTA-B00T-LR-DR-A-2102** REVISION **03**

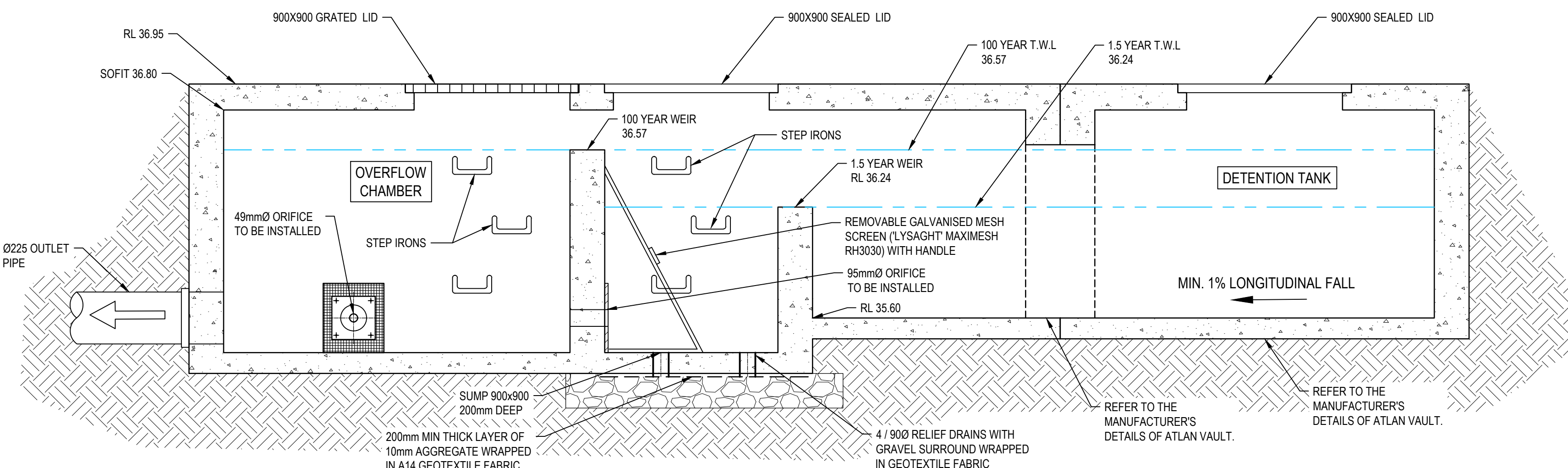
Appendix D – Stormwater Drainage and OSD Tank Plan and Detail



PLAN
SCALE 1:50



MESH TYPE	MESH SCREEN AREA
LYSAGHT RH3030 FOR ORIFICE 150Ø OR LESS	>50X ORIFICE DIAMETER
'WELDLOK' F40/203 FOR ORIFICE GREATER THAN 150Ø	>50X ORIFICE DIAMETER
NOTE: SCREEN AREA INCLUDES SIDES WHERE APPLICABLE	



SECTION A
SCALE- AS SHOWN -

[illegible]

MEINHARDT

Meinhardt Infrastructure and Environment PTY. LTD.
A.C.N. 099 034 598

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Sydney NSW 2000
Australia
T: +61 2 8528 5086
F: +61 2 8528 5086
info@meinhardtgroup.com
<http://www.meinhardtgroup.com>
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CLIENT	 School Infrastructure NSW
TITLE	OSD DETAILS

PROJECT
NORTHMEAD PUBLIC SCHOOL
52A MOXHAMS RD, NORTHMEAD NSW 2152

STATUS

SCHEMATIC DESIGN

NOT TO BE USED FOR CONSTRUCTION

DRAWN J.G	DESIGNED A.N	CHECKED B.K	APPROVED B.L	DATE	SCALE @ AS SHOWN
PROJECT No 132567		DRAWING No NPS-MHT-00-00-DR-C-0300			REV P5

Appendix E – UPRCT Calculation Sheet

Project:	UPRCT Handbook Demonstration Example				
Site Address	Northmead				
Job No:	W4574-2				
Designer:					
Telephone:	(02) 9891 4633				
Site Data					
OSD Area:	Upper Parramatta River Catchment				
L.G.A	Parramatta City Council				
Site Area	0.101	ha	1,010	m ²	
Total Roof Area	0.0876	ha	876	m ²	
Area of Site draining to OSD Storage	0.101	ha	1,010	m ²	Satisfactory
Residual Site Area (Lot Area - Roof Area)	0.013	ha			
Area Bypassing Storage	0	ha			
Area Bypassing / Residual Site Area	0.0%				Satisfactory 30% Max
No. of Dwellings on Site	1				Satisfactory
Site Area per Dwelling	0.101	ha			
Roof Area per Dwelling	0.088	ha			
Basic OSD Parameters					
		Extended Detention		Detention	
Basic SSR Vols	Ext Detention Storage	300	m ³ /ha	Total Storage	455 m ³ /ha
Basic SRDs	Primary Outlet	40	L/s/ha	Secondary Outlet	150 L/s/ha
OSD Tank Bypass					
Residual Lot Capture in OSD Tank	100%				
Adjusted SRDs	40	L/s/ha		150	L/s/ha
OSD Calculations					
		Extended Detention		Detention	
Basic SSR Volume	Ext Detention Storage	30.30	m ³	Total Storage	45.96 m ³
Total Rainwater Tank Credits		0.00	m ³		0.00 m ³
Storage Volume				Total	45.96 m ³
Storage Volume	Ext Detention Storage	30.30	m ³	Flood Detention Storage	15.66 m ³
OSD Discharges	Primary Outlet	4.04	L/s	Secondary Outlet	15.15 L/s
RL of Top Water Level of Storage	36.240	m		36.570	m
RL of Orifice Centre-line	35.600	m		35.600	m
Number of Orifices	1			1	
Estimated Downstream Flood Level	35.00	1.5 yr ARI		35.00	100 yr ARI
Downstream FL - RL of Orifice Centre-line	-0.60	Satisfactory		Satisfactory	-0.60 m
Design Head to Orifice Centre	0.640	m		TWL Ext Detn Storage - RL Orifice	0.640 m
Calculated Orifice Diameter	49	mm	Satisfactory	Satisfactory	95 mm
Overflow Weir & Freeboard Calculation					
RL of Minimum Habitable Floor Level				37.500	m
RL of Minimum Garage Floor Level				37.400	m
Length of Overflow Weir				3.60	m
Site Runoff Coefficient	Parramatta City Council			0.95	
Storm Intensity (5 min 100 yr ARI)				215	mm/h
Peak Flow over Weir				57.3	L/s
Depth of Flow over Weir				45	mm

Freeboard to Habitable Floor	Satisfactory	885	mm
Freeboard to Garage Floor	Satisfactory	785	mm