

Minarah College

Preliminary Overland Flow Assessment:
Minarah College,
268 & 278 Catherine Fields Road,
Catherine Fields, NSW

P2108320JR06V01
April 2022

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1 Introduction

1.1 Overview

Martens & Associates Pty Ltd (MA) have prepared this preliminary overland flow assessment to support a State Significant Development Application (SSD-30759158) for the proposed Minarah College at 268 and 278 Catherine Fields Road, Catherine Field (the site).

1.2 Project Scope and Objectives

Project scope and objectives are:

1. Prepare a TUFLOW hydraulic model for the site under existing and proposed conditions.
2. Prepare relevant overland flow maps including 1% AEP water extents, depths, levels, velocities, hazards and impacts.
3. Comment on overland flow characteristics and model outcomes in existing and proposed conditions.

1.3 Relevant Guidelines

This report has been prepared in accordance with the following guidelines and policies:

1. Commonwealth of Australia (2019), *Australian Rainfall and Runoff – A Guide to Flood Estimation*.
2. NSW Department of Infrastructure, Planning and Natural Resources (2005), *Floodplain Development Manual*.
3. Camden Council (2012), *Upper South Creek Flood Study*.
4. Camden Council (2006), *Flood Risk Management*.

1.4 Definitions

AEP	Annual exceedance probability: the probability of a flood event occurring within a year. A 1% AEP flood has a 1% chance of occurring in any given year.
ARI	Average recurrence interval: the average time between flood events occurring. A 1 in 100 year ARI flood occurs on average once every 100 years.
ARR	Australian Rainfall & Runoff

BOM	Bureau of Meteorology
CC	Camden Council
SSDA	State Significant Development Application
FFL	Finished floor level
FPL	Flood planning level
IFD	Intensity frequency duration: design rainfall data for frequent and infrequent storm events.
MA	Martens & Associates Pty Ltd

2 Site Description and Background Data

2.1 Location and Site Description

Existing site description summary is provided in Table 1.

Table 1: Existing site description summary.

Address	268-278 Catherine Fields Rd, Catherine Field NSW
Lot / DP	Lot 11 DP833983 and Lot 12 DP DP833984
Site Area	4.5 ha
Local Government Area (LGA)	Camden Council
Current Land Use	Rural residential
Current Zoning	RU4 – Primary Production Small Lots & R5 – Large Lot Residential
Site Description	The site is primarily grassed at lower elevations and bushland at higher elevations. There are several structures on the site including three buildings four sheds and two driveways.
Surrounding Land Uses	The site is surrounded by bushland at north and east, rural residential lots at the south and Catherine Fields Road at west.
Site Elevation	Approximately 84 mAHD at eastern site boundary rising to 74 mAHD at western site boundary.
Site Grading & Aspect	Approximately 3 – 10%.
Site Drainage	A shallow drainage depression runs from south-east to south-west along the site boundary and discharges to the Catherine Fields Road.

2.2 Site Inspection

Site inspections was conducted on 22 September, 22 and 30 November 2021 and included:

- General walkover to identify local land forms and site characteristics to understand local drainage behaviour.
- Identification and observation of existing site stormwater infrastructure and natural drainage lines.

2.3 Local Upstream Catchment

The site is affected by overland flows generated from a local upstream catchment south east of the site of approximately 5.5 ha. This catchment is primarily rural residential area with a small portion of bushland to the east. Refer to Map 01 in Attachment C for the catchment extent.

2.4 Council Flood Information

The site is located within the Upper South Creek catchment. WMA Water conducted a flood assessment for this catchment on behalf of Camden Council and summarised the assessment and modelling details in the Upper South Creek Flood Study (2013), hereafter referred to as the WMA Water flood study.

Further to the above, Camden Council provides flood extent maps and flood risk precinct maps as a part of the Upper South Creek Floodplain Risk Management Study and Plan (2019). In this study, land is categorised as high, medium, low or 1% AEP overland flow risk or nothing. The site is outside of any mainstream flood risk precinct. The south portion of Lot 11 is categorised as 1% AEP overland flow risk precinct, indicating that there is a risk of overland flow flooding occurring within the existing depression running along the southern boundary of the site.

2.5 Proposed Development

Architectural drawings prepared by Tonkin Zulaikha Greer Architects (Attachment B) indicate that the proposed development will include:

- Demolition of existing structures on site.
- Construction of eleven new buildings and facilities, including primary school and high school classes, school hall, library and canteen.
- Construction of a carpark and kiss and drop area as well as the sport outdoor area.

MA has iteratively designed the bus parking accessway, south western carpark, diversion pipes and swale along the southern boundary of the site to capture and redirect the upstream overland flows to Catherine Fields Road. Refer to MA plansets P2108321PS01 and P2108321PS02 (not attached to this report) for more details of the proposed site earthworks and pit and pipe network.

3 TUFLOW Modelling

3.1 Overview

The TUFLOW hydraulic model was used to determine flood characteristics including flood extents, levels, depths, velocities and hydraulic hazard for the critical 1% AEP flood for existing and proposed conditions.

The hydraulic model was used to assess the 1% AEP flooding for the critical storm duration of 25 minute determined by running a “one node” DRAINS model for the local upstream catchment area of 5.5 ha. We note that the critical storm duration adopted in the WMA Water flood study for the Upper South Creek is 9 hours which is different to the site as the entire catchment of the Upper South Creek is significantly larger than the local upstream catchment of the site.

3.2 Terrain Data

Catchment LIDAR data provided by LPI (2013) was merged with site survey data (Attachment A) provided by CMS (March 2021) to create a 3D surface for the existing conditions site and the local floodplain environment used in the TUFLOW model. Refer to Map 01 in Attachment C for existing condition's model surface.

The proposed conditions surface has included the site regrading design as shown in MA planset P2108320PS01 – C100 (not attached to this report).

3.3 Model Setup

3.3.1 Existing Conditions

TUFLOW model construction for existing conditions consisted of:

1. A 1.0 m topographic grid based on the available survey and LIDAR data.
2. The model domain was defined as the entire catchment area of the site to downstream of Catherine Fields Road approximately 50m from the site. Model boundary extents were generally placed along catchment ridgelines surrounding the study area, and are shown in Map 01 of Attachment C .
3. A direct rainfall boundary condition based on the critical duration 1% AEP hyetographs from DRAINS. The boundary condition comprised the entire model domain as shown in Map 01 of Attachment C and enabled automatic flood water routing.

4. Computed water slopes for downstream model extent boundary conditions based on the slopes from available LIDAR data.
5. Manning's zones based on Nearthmaps (2022) aerial photography of the study area with roughness coefficients adopted as per Table 2.
6. Hydrologic loss coefficients for pervious and impervious catchment materials were adopted as per Table 2.
7. A 1D network to model the relevant culverts:
 - a. The twin 450 mm diameter culvert crossing under Catherine Fields Road is modelled as 1D element in the existing condition.
 - b. All other pits and pipes in the study area have conservatively been assumed to be 100% blocked.
 - c. 1D network pipe sizes, invert levels and locations are based on CMS (2021) survey data Attachment A.
 - d. Pipe roughness coefficient of 0.013 was adopted.
 - e. Pipe blockages of 25% have been adopted based on the assessment procedure in Australian Rainfall and Runoff (Weeks & Rigby, 2016).
8. Existing dam upstream of the site is conservatively assumed to be full.

Table 2: Manning's roughness and hydrologic loss values for TUFLOW modelling.

Catchment Material Type	Manning's Roughness Coefficient ¹	Initial Loss (mm) ²	Continuing Loss (mm/hr) ²
Bushland	0.080	12.5	6.5
Grass	0.035	12.5	6.5
Roads / Concrete	0.015	1.5	0.0
Watercourse / Water Body	0.04 when depth $\leq$ 0.1 m	0.0	0.0
	0.03 when depth $>$ 0.1 m		

Notes

1. Based on typical values from similar catchments.
2. Hydrologic losses were consistent with RAFTS modelling as detailed at Section 1.

3.3.2 Proposed Conditions

The existing conditions model was modified as follows to simulate proposed conditions:

1. The 1.0 m topographic grid was updated to reflect the proposed site grading as shown in MA planset P2108320PS01 – C100.
2. Site inflow boundary conditions were updated based on the critical duration 1% AEP hydrographs from DRAINS for the proposed site catchment.
3. Site manning's zones were updated to represent design surfaces.
4. The 1D network was updated to include proposed pit and pipe networks:
 - a. Proposed 525mm diameter diversion pipes under the southern carpark.
 - b. The proposed pit and pipe system on Catherine Fields Road, including the upsized culvert crossing under the road.
5. All other model construction elements remained consistent with the existing conditions model.

Refer to MA plansets P2108321PS01 and P2108321PS02 (not attached to this report) for more details of the proposed site earthworks and pit and pipe network.

3.4 Results

Flood mapping results (flood levels, depths, velocities, provisional hazard categories and water level afflux / impacts) for the critical duration 1% AEP flood event in existing and proposed conditions are provided in Attachment C, with map references summarised in Table 3

Table 3: Flood map drawing references in Attachment C (MA mapset P2108320MS05).

Flood Condition Scenario	Critical Duration Flood Event	Water Level & Depth	Water Velocity	Provisional ARR Flood Hazard Categories ²	Water Level Impact / Afflux
Existing Conditions	1% AEP	Map 02	Map 03	Map 04	–
Proposed Conditions	1% AEP	Map 05	Map 06	Map 07	Map 08

Notes

1. Flood results have been filtered to show areas of greater than 50 mm depth.
2. Provisional ARR flood hazard categories are based on ARR flood hazard curve (2019) definitions and are shown in .

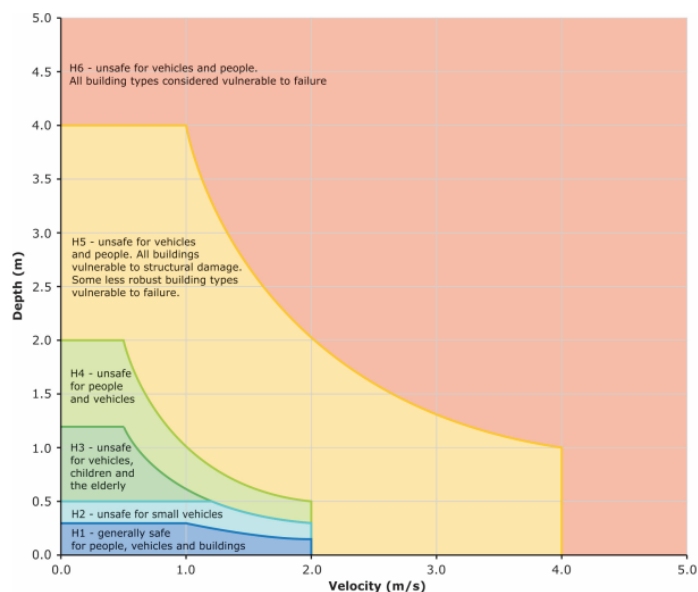


Figure 1: Flood Hazard Curves (Geoscience Australia, 2019).

3.5 Discussion

We note the following regarding modelled flood behaviour:

3.5.1 Existing Conditions

1. Flood waters primarily flow across the site from east to west along the southern boundary, and then flow along the roadside swale fronting of the site and discharge to the downstream neighbouring property through the existing culvert crossing under Catharine Fields Road.
2. The existing roadside swale and culvert crossing do not have sufficient capacity to convey the upstream flows to the downstream area. The flood water overtops the road in the 1% AEP flood event at two locations: (1) near the south western

corner of the site and (2) near the north western corner of the site where there is a low point of the road.

3. The 1% AEP flood depth across the site varies from 100 to 500 mm and the maximum flood depth of 1.1m is observed at the inlet of the culvert crossing on Catharine Fields Road.
4. Flood velocities along the southern boundary of the site and Catharine Fields Road are up to 1.5 m/s in the 1% AEP flood event.
5. Hydraulic hazard is generally H1 across the site and increased to H2 along the Catharine Fields Road in the 1% AEP flood event. The highest hazard of H4 is observed at the inlet of the culvert crossing on Catharine Fields Road.

3.5.2 Proposed Conditions

1. The proposed upstream overland flow diversion system along the southern boundary of the site effectively collects and redirects the upstream overland flows away from the proposed main building areas, and discharges the flows into the proposed drainage system on Catherine Fields Road.
2. The proposed upgraded Catherine Fields Road and associated drainage works provide more capacity to convey the 1% AEP flows comparing to the existing condition and reduce overland flows overtopping from the road to the downstream properties.
3. The flood hazard on Catherine Fields Road has been lowered from H2 to H1 which is safe for pedestrian and vehicle access.
4. Floor level compliance:
 - a. The flood planning level (FPL) required by CC is 1% AEP flood level plus a 600 mm freeboard.
 - b. Table 3 summarises proposed site building and flood planning levels, and demonstrates that the site achieves compliance with CC freeboard requirements.

Table 3: Comparison of flood planning levels and building ground floor levels.

Building ¹	Flood level observation point	1% AEP FLO ²	Flood Planning Level (mAHD) ⁴	Finished Floor Level (mAHD) ¹	Complies ?
Primary Hall	A	77.20	77.80	78.00	Yes
SSP	B	77.40	78.00	78.64	Yes
Kindergarten	C	77.70	78.30	78.64	Yes
Year 1	D	78.50	79.10	79.92	Yes
Year 2	E	79.30	79.90	80.56	Yes

Notes

1. Refer Attachment B for proposed site layout and ground floor levels.
2. Refer Attachment C - Map02 and Map05 for modelled proposed 1% AEP flood levels.
3. CC requires the flood planning level to be 600 mm above the 1% AEP flood level.
4. These buildings do not have nearby flood water in the proposed conditions 1% AEP flood event.

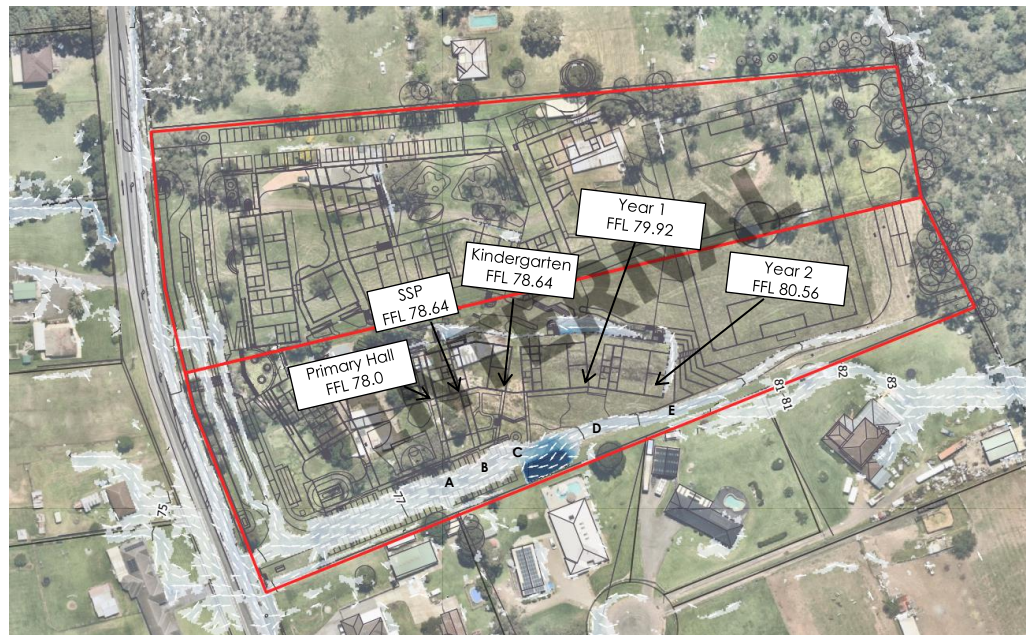


Figure 2: Comparison of flood levels with the buildings FFL.

3.5.3 Offsite Flood Impacts

1. There are minor offsite impacts in the 1% AEP flood event as a result of the proposed development.
2. Flood impacts on Catherine Fields Road would be considered acceptable as the proposed road upgrade work has lowered the flood hazard category from H2 to H1, which has a beneficial effect on the existing trafficability of the road.

3. The proposed development and road upgrade works provide a net benefit to flood affectation of the residential properties downstream of Catherine Fields Road. The minor localised impacts of above 20 mm on these properties are considered acceptable and insignificant in the context of flooding in this locality.
4. There is a small area of offsite impact above 20 mm near the south western corner of the site on the neighbouring property. This impact is likely to be associated with accuracy of the modelling result and is expected to be resolved by running a higher resolution model (ie. finer grid cell size) and incorporating with a more detailed grading design at CC stage.
5. The changes to the offsite flood conditions are of immaterial significance and are considered acceptable.

4 Summary and Recommendations

A detailed TUFLOW hydraulic model has been developed for the site using detailed site survey and proposed design elements to assess local overland flow characteristics.

The model was used to determine the existing and proposed overland flows conditions in the 1% AEP flood events. Assessment concluded that:

1. The proposed upstream overland flow diversion system effectively renders the site development area flood free in the 1% AEP flood event.
2. The proposed development area of the site is flood free in the 1% AEP flood event.
3. The proposed development would have acceptable offsite flood impacts.
4. Compliance with Council flood planning level requirements for building levels are achieved.

We recommend:

1. Structures below the site flood planning level are to be constructed using flood compatible materials in accordance with Council requirements.
2. An updated TUFLOW hydraulic model with detailed earthworks and should be simulated at detailed design stage.

5 References

Ball J, Babister M, Nathan R, Weeks W, Weinmann E, Retallick M, Testoni I, (Editors) (2019), *Australian Rainfall and Runoff: A Guide to Flood Estimation*, Commonwealth of Australia.

Bureau of Meteorology (2003), *The Estimation of Probable Maximum Precipitation in Australia: Generalised Short-Duration Method*.

Bureau of Meteorology (2019), *Rainfall IFD Data System*, <http://www.bom.gov.au/water/designRainfalls/revised-ifd/>.

DRAINS 2022, *DRAINS Content Menu*.

NSW Department of Environment, Climate Change & Water (2010), *Flood Risk Management Guide: Incorporating sea level rise benchmarks in flood risk assessments*.

NSW Department of Infrastructure, Planning and Natural Resources (2005), *Floodplain Development Manual*.

NSW Government Environment & Heritage (2017) eSPADE – NSW Soil and Land Information, www.environment.nsw.gov.au/eSpade2WebApp.

Camden Council (2006), *Flood Risk Management Policy*

Camden Council (2012), *Upper South Creek Flood Study*.

Camden Council (2011), *Camden Council Development Control Plan*

6 **Attachment A: Site Survey**

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BIT = BITUMEN
BLD = EXTERNAL BUILDING
BR = BRIDGE
BW = BOTTOM WALL
CHI = CHIMNEY
CL = CENTRELINE
CON = CONCRETE
CSL = COMMUNICATIONS SURFACE LEVEL
DK = DECK
DS = DOOR SILL LEVEL
ED = ELECTRICITY LINE OVERHEAD
ESL = ELECTRICITY SURFACE LEVEL
FCE = FENCE
FL = FLOOR LEVEL
FOW = FILL OF WATER
GARFL = GARAGE FLOOR LEVEL
GDN = GARDEN
GNDP = GIN FOUND
GRA = GRAVEL
GRT = GRATE
HL = HOOD LEVEL
HYD = HYDRANT
IL = INVERT LEVEL
INS = INSPECTION PIT
LAN = LANDING
LID = MISCELLANEOUS PIT LID
NS = NATURAL SURFACE
OU = OPTIC FIBRE
PAT = PATIO
PAV = PAVING
PER = PERGOLA
POOL = POOL
POST = POST
PTH = PATH
RF = TOP OF ROOF
RR = ROOF RIDGE
SHED = SHED
SIL = SEWER SURFACE LEVEL
STR = STAIRS
SVA = STOP VALVE
SWSL = STORMWATER SURFACE LEVEL
TAP = TAP
TB = TOP OF BANK
TD = TABLE DRAIN
TG = TOP OF GUTTER
TIL = TILE
TNK = TANK
TP = TOP OF PIPE
TP = TREE
TW = TOP OF WALL
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SW = STORMWATER LINE UNDERGROUND
U = UNKNOWN LINE UNDERGROUND
W = WATER LINE UNDERGROUND

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RL	LOCATION	NOTE
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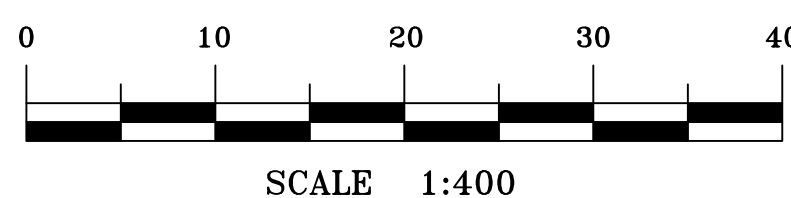
- CAUTION: SURVEYORS HAVE SURVEYED AND MARKED OUT EXISTING SERVICES IN THE AREA SPECIFIED BY THE CLIENT. THESE SERVICE LINES HAVE BEEN LOCATED BY ABOVE GROUND SERVICE TRACING METHODS AND HAVE NOT BEEN SIGHTED. CMS SURVEYORS HAVE THEN LOCATED THE LINE MARKED BY SURVEYORS. THE LOCATION OF THESE MARKED 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 OCCURRENCES HAVE BEEN TAKEN FROM UTILITY PROVIDED DIAGRAMS WHERE AVAILABLE. WE RECOMMEND NON-DESTRUCTIVE DIGGING/POTHOLING TO EXPOSE MARKED SERVICES TO VERIFY AND SHOW EXACT DEPTH AND LOCATION OF SERVICE LINES PRIOR TO EARTHWORKS COMMENCING. UTILITIES PLOTTED ON THE PLAN THAT FORMATE 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.

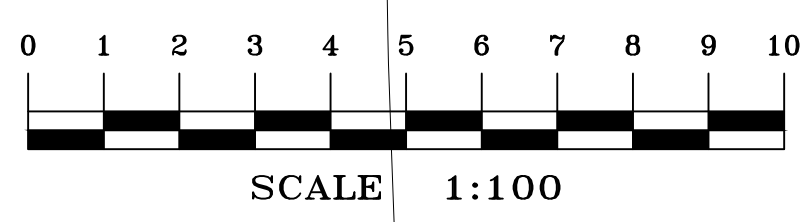
SUBSURFACE UTILITY INFORMATION

Q1-0 IS THE LOWEST OF THE FOUR QUALITY LEVELS STIPULATED IN ASS488. IT IS AN INDICATIVE POSITION COMPILED FROM EXISTING RECORDS, CUSORY SITE INSPECTION, ANECDOTAL EVIDENCE.
Q1-1 IS THE NEXT LEVEL UP FROM Q1-0. ASS488 STATES THAT Q1-1 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) SOME BOOM TECHNIQUES AND A SITE SURVEY OF VISIBLE EVIDENCE.
Q1-2 ELECTRONICALLY TRACED AS PER ASS488 (DIRECT CONNECTION, INDUCTION, FLEXTRACER/SOINDE, FLEXTRACER/SOINDE) WITH AN ESTIMATED POSITIONAL TOLERANCE OF +/- 300MM IN PLAN, +/- 500MM IN DEPTH (HIGH CONFIDENCE LEVEL).
Q1-3 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 HOLES WHERE THE UTILITY IS EXPOSED.
Q1-4 IS 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 OCCURRENCES HAVE BEEN TAKEN FROM UTILITY PROVIDED DIAGRAMS WHERE AVAILABLE. WE RECOMMEND NON-DESTRUCTIVE DIGGING/POTHOLING TO EXPOSE MARKED SERVICES TO VERIFY AND SHOW EXACT DEPTH AND LOCATION OF SERVICE LINES PRIOR TO EARTHWORKS COMMENCING. UTILITIES PLOTTED ON THE PLAN THAT FORMATE 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.

LEGEND:

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

TITLE INDICATES THAT LOT 11 IN D.P.833983 IS SUBJECT TO:
- RESERVATIONS AND CONDITIONS IN THE CROWN GRANTS(S).TITLE INDICATES THAT LOT 12 IN D.P.833784 IS SUBJECT TO:
- RESERVATIONS AND CONDITIONS IN THE CROWN GRANTS(S).



NOTES

- BOUNDARIES HAVE BEEN DEFIELD.
- IF CONSTRUCTION ON OR NEAR BOUNDARIES IS REQUIRED IT IS COMPULSORY THAT THE BOUNDARIES OF THE LAND BE MARKED.
- THIS SURVEY IS NOT FOR DESIGN PURPOSES OF THE SUBJECT LAND. THIS PLAN MAY NOT BE USED FOR ANY OTHER MATTER, PURPOSE OR CONSTRUCTION TYPE.
- TREE SIZES ARE ESTIMATES ONLY.
- THIS PLAN HAS BEEN PREPARED FOR THE EXCLUSIVE USE OF GREEN VALLEY ISLAMIC COLLEGE LTD - C/VIDEOM GROUP.
- RELATIONSHIP OF PROPLEMENTS TO BOUNDARIES IS DIAGRAMMATIC ONLY. IF BOUNDARIES ARE INDICAL, THEY SHOULD BE CONFIRMED BY SURVEY.
- EXCEPT WHERE SHOWN BY INDICATION OF DETAIL, WITH DIMENSIONS, THE FOLLOWING ARE THE ONLY:
 - ONLY VISIBLE SURVEYS HAVE BEEN LOCATED UNDERGROUND
 - ALL OTHERS ARE ASSUMED TO BE LOCATED AT THE SURFACE
 - IF ANY 100'S SHOULD BE USED AND A FULL UTILITY INVESTIGATION IS REQUIRED, THE USER OF THIS PLAN SHOULD CONSULT WITH THE ENGINEER BEFORE CARRYING OUT ANY CONSTRUCTION ACTIVITY OR NEAR THE BOUNDARIES.
- ALL DIMENSIONAL LEVELS SHOULD BE CONFIRMED WITH SURVEYOR.
- CONTOURS SHOWN REFLECT THE TOPOGRAPHY. THEY DO NOT REPRESENT THE EXACT LEVEL AT ANY PARTICULAR POINT. ONLY SPOT LEVELS ARE TO BE USED FOR CALCULATIONS OF QUANTITIES WITH CAUTION.
- CONTOR INTERVAL - 0.5 metre . SPOT LEVELS SHOULD BE NOTED.
- POSITION OF RED LINES ARE DIAGRAMMATIC ONLY. NOT TO SCALE.
- THE INFORMATION IS ONLY TO BE USED AT A SCALE ACCURACY OF 1:100.
- DO NOT SCALE OFF THIS PLAN / FIGURED DIMENSIONS TO BE TAKEN FROM PREPARED DRAWINGS.
- COPYRIGHT © CMS SURVEYORS 2021.
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- ANY PRINTED DOCUMENT, ELECTRONIC STORAGE, DISPLAY, OR TRANSMISSION OF THIS SURVEY OR ANY PART THEREOF, WITHOUT ANY ALTERATION OR ADDITION TO THE ORIGINAL SURVEY.
- THIS NOTE MUST NOT BE ERASED.
- THIS PLAN HAS BEEN PREPARED UNDER THE SUPERVISION OF REGISTERED SURVEYOR.

STEPHEN EMERY
REGISTERED SURVEYOR BOSSI NUMBER 1605

LEGEND:

- AW = ANNING
- BB = BOTTOM OF BANK
- BT = BUTTEN
- BWD = EXTERNAL BUILDING
- BRD = BRIDGE
- BU = BOTTOM WALL
- CH = CHIMNEY
- CL = CENTRINE
- CON = CONCRETE
- CSL = COMMUNICATIONS SURFACE LEVEL
- CD = DECK
- DS = DOWN SILL LEVEL
- ELO = ELECTRICITY LINE OVERHEAD
- ELF = ELECTRICITY SURFACE LEVEL
- FEN = FENCE
- FL = FLOOR LEVEL
- FUL = FULL OF WATER
- GAF = GARAGE FLOOR CON
- GAS = GARDEN
- GINF = GIN FUND
- GR = GRAVEL
- GR1 = GRASS
- HL = HOOD LEVEL
- HO = HOIST
- IL = INVERT LEVEL
- IND = INSPECTION PIT
- LAN = LANDING
- LAN = MISCELLANEOUS PIT LAND
- NS = NATURAL SURFACE
- OD = OPTIC FIBRE
- PAT = PATIO
- PAV = PAVING
- PER = PERGOLA
- POOL = POOL
- POST = POST
- PTH = PATH
- RF = TOP OF ROOF
- RR = ROAD RIDGE
- SHD = SHED
- SLF = SLEWER SURFACE LEVEL
- STR = STAIRS
- SVA = STOP VALVE
- SWA = STOPWATER SURFACE LEVEL
- TAP = TAP
- TBL = TOP OF BANK
- TD = TABLE DRAIN
- TFL = TOP OF GUTTER
- TILE = TILE
- TNK = TANK
- TOP = TOP OF PIPE
- TR = TREE
- TW = TOP OF WALL
- UNL = UNKNOWN SERVICE SURFACE LEVEL
- WH = WATER METER
- WHL = WATER SURFACE LEVEL



LEGEND: (SEE NOTES 1)

- C — COMMUNICATIONS LINES (UNDERGROUND)
 EO — ELECTRICITY LINES (OVERHEAD)
 E — ELECTRICITY LINE (UNDERGROUND)
 Nb — NBN LINE (UNDERGROUND)
 S — SEWER LINE (UNDERGROUND)
 SW — STORMWATER LINE (UNDERGROUND)
 U — UNKNOWN LINE (UNDERGROUND)
 W — WATER LINE (UNDERGROUND)

	CODE	DEPTH	PIPE	
106.78	SSL	B	1.31	0.10
RL		LOCATION		EO
		QUALITY		NOTE

THIS SHEET IS TO BE READ IN
CONJUNCTION WITH NOTES & LEGEND
SEE SHEET 1

HORIZONTAL DATUM:
CO-ORDINATE SYSTEM: MGA
MARKS ADOPTED: SSM15698 AND PM32686

VERTICAL DATUM:
 DATUM: AUSTRALIAN HEIGHT DATUM (AHD)
 B.M. ADOPTED: SSM 15698
 R.L. 73.521 (CLASS LC)
 SOURCE: S.C.I.M.S. (11/03/2021)

2	DETAIL UPDATED	19/11/20
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I	FIRST ISSUE	25/03
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CLIENT:
GREEN VALLEY
ISLAMIC COLLEGE LTD
C/O-SUITE 7, 33 ALEXANDRIA STR
HUNTERS HILL, NSW, 2110

**SURVEY PLAN
SHOWING DETAIL & LEVELS, BOUNDARY
MARKING & UNDERGROUND SERVICES
OVER LOT 11 IN DP833983 &
OVER LOT 12 IN DP833784
No.268-278 CATHERINE FIELD ROAD
CATHERINE FIELD, NSW, 2171**

 **C.M.S. Surveyors
Pty Limited**
ACN: 096 240 201
PO Box 463 Dee Why
NSW 2099
2/90A South Creek Road,
Dee Why NSW 2099
Telephone: (02) 9971 4802
Facsimile: (02) 9971 4822
E-mail: info@cmsurveyors.com.au

LGA: CAMDEN	SHEET 2 OF 2
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SURVEYED DATE	DRAWN BY	CHECKED DATE	APPROVED BY
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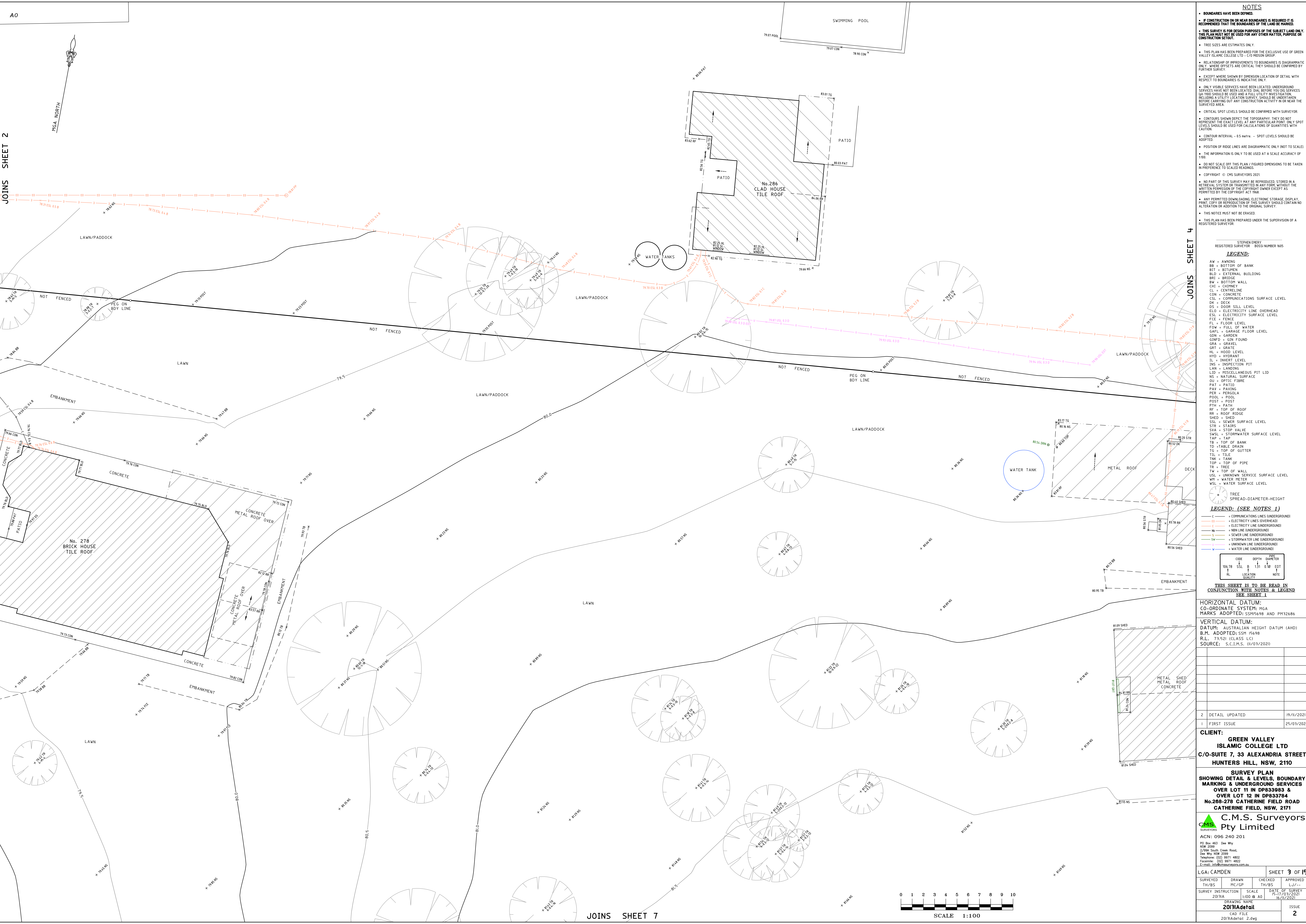
TH/BS	MC/GP	TH/BS	LJ/
SURVEY INSTRUCTION	SCALE	DATE OF SURV	

20131A	1:100 图 A0	15-11703/20 16/11/2021
DRAWING NAME		

2013	A detail	ISSU
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CAD FILE
20131Adetail 2.dwg

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- NOTES**
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 - 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 DIAL BEFORE YOU DO SERVICES (IN 100) 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.
 - CRITICAL SPOT LEVELS SHOULD BE CONFIRMED WITH SURVEYOR.
 - 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.
 - CONTOUR INTERVAL - 0.5 metre - SPOT LEVELS SHOULD BE ADOPED.
 - POSITION OF RIDGE LINES ARE DIAGRAMMATIC ONLY (NOT TO SCALE).
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 - THIS NOTICE MUST NOT BE ERASED.
 - THIS PLAN HAS BEEN PREPARED UNDER THE SUPERVISION OF A REGISTERED SURVEYOR.

STEPHEN ENERY
REGISTERED SURVEYOR (NSW) SURVEY NUMBER 1605

LEGEND:

AW = AWNING
BB = BOTTOM OF BANK
BIT = BITUMEN
BLD = EXTERNAL BUILDING
BRE = BRIDGE
BW = BOTTOM WALL
CHI = CHIMNEY
C = CENTRELINE
CON = CONCRETE
CSL = COMMUNICATIONS SURFACE LEVEL
DK = DECK
DS = DOOR SILL LEVEL
ELO = ELECTRICITY LINE OVERHEAD
ESL = ELECTRICITY SURFACE LEVEL
FCE = FENCE
FL = FLOOR LEVEL
FOW = FULL OF WATER
GARFL = GARAGE FLOOR LEVEL
GDN = GARDEN
GNDP = GIN FOUND
GRA = GRAVEL
GRG = GRATE
HL = HOOD LEVEL
HYD = HYDRANT
IL = INVERT LEVEL
INS = INSPECTION PIT
LAN = LANDING
LID = MISCELLANEOUS PIT LID
NS = NATURAL SURFACE
OU = OPTIC FIBRE
PAT = PATIO
PAV = PAVING
PER = PERGOLA
POOL = POOL
POST = POST
PTH = PATH
RF = TOP OF ROOF
RR = ROOF RIDGE
SHED = SHED
SSL = SEWER SURFACE LEVEL
STR = STAIRS
SVA = STOP VALVE
SWSL = STORMWATER SURFACE LEVEL
TAP = TAP
TB = TOP OF BANK
TD = TABLE DRAIN
TG = TOP OF GUTTER
TIL = TILE
TNK = TANK
TOP = TOP OF PIPE
TR = TREE
TW = TOP OF WALL
USL = UNKNOWN SERVICE SURFACE LEVEL
WM = WATER METER
WSL = WATER SURFACE LEVEL

TREE
SPREAD-DIAMETER-HEIGHT

LEGEND: (SEE NOTES 1)

C = COMMUNICATIONS LINES UNDERGROUND
ELO = ELECTRICITY LINES OVERHEAD
ESL = ELECTRICITY LINE UNDERGROUND
NSL = NBN LINE UNDERGROUND
SSL = SEWER LINE UNDERGROUND
SWSL = STORMWATER LINE UNDERGROUND
USL = UNKNOWN LINE UNDERGROUND
WSL = WATER LINE UNDERGROUND

CODE DEPTH DIAMETER
105.78 SSL B 1.31 0.10 EOT
RL LOCATION NOTE
QUALITY

THIS SHEET IS TO BE READ IN CONJUNCTION WITH NOTES & LEGEND SEE SHEET 1

HORIZONTAL DATUM:
CO-ORDINATE SYSTEM: MGA
MARKS ADOPTED: SSMS15698 AND PM32686

VERTICAL DATUM:
DATUM: AUSTRALIAN HEIGHT DATUM (AHD)
B.M. ADOPTED: SS11154 (15498)
R.L. 73.52 (CLASS LC)
SOURCE: S.C.I.M.S. (11/03/2021)

2	DETAIL UPDATED	19/11/2021
1	FIRST ISSUE	25/03/2021

CLIENT:
GREEN VALLEY ISLAMIC COLLEGE LTD
C/O-SUITE 7, 33 ALEXANDRIA STREET
HUNTERS HILL, NSW, 2110

SURVEY PLAN
SHOWING DETAIL & LEVELS, BOUNDARY MARKING & UNDERGROUND SERVICES
OVER LOT 11 IN DP833983 &
OVER LOT 12 IN DP833784
No.268-278 CATHERINE FIELD ROAD
CATHERINE FIELD, NSW, 2171

C.M.S. Surveyors Pty Limited
ACN: 096 240 201
PO Box 463 Dee Why NSW 2099
2/39A South Creek Road, Dee Why NSW 2099
Telephone: (02) 9971 4802
Facsimile: (02) 9971 4822
E-mail: info@cmsurveyors.com.au

LGA: CAMDEN

SURVEYED TH/BS	DRAWN MC/GP	CHECKED TH/BS	APPROVED LJ/-
2019A	SCALE 1:100	DATE OF SURVEY 15-17/03/2021	16/11/2021
DRAWING NAME 2019Adetail			ISSUE 2

2019Adetail 2.dwg

 TREE
SPREAD-DIAMETER-HEIGHT

LEGEND: (SEE NOTES 1)

C — COMMUNICATIONS LINES (UNDERGROUND)
 EO — ELECTRICITY LINES (OVERHEAD)
 E — ELECTRICITY LINE (UNDERGROUND)
 Nb — NBN LINE (UNDERGROUND)
 S — SEWER LINE (UNDERGROUND)
 SW — STORMWATER LINE (UNDERGROUND)
 U — UNKNOWN LINE (UNDERGROUND)
 W — WATER LINE (UNDERGROUND)

CODE DEPTH PIPE
↓ ↓ ↓
SSL B DIAMETER
↑ ↑ ↑
106.78 1.31 0.18 EO
RL LOCATION QUALITY NOTE

THIS SHEET IS TO BE READ IN
CONJUNCTION WITH NOTES & LEGEND
SEE SHEET 1

HORIZONTAL DATUM:
CO-ORDINATE SYSTEM: MGA
MARKS ADOPTED: SSM15698 AND PM32686

VERTICAL DATUM:
DATUM: AUSTRALIAN HEIGHT DATUM (AHD)
B.M. ADOPTED: SSM 15698
R.L. 73.521 (CLASS LC)
SOURCE: S.C.I.M.S. (11/03/2021)

2	DETAIL UPDATED	19/11/20
1	FIRST ISSUE	25/03/20

CLIENT:
GREEN VALLEY
ISLAMIC COLLEGE LTD
C/O-SUITE 7, 33 ALEXANDRIA STREET
HUNTERS HILL, NSW, 2110

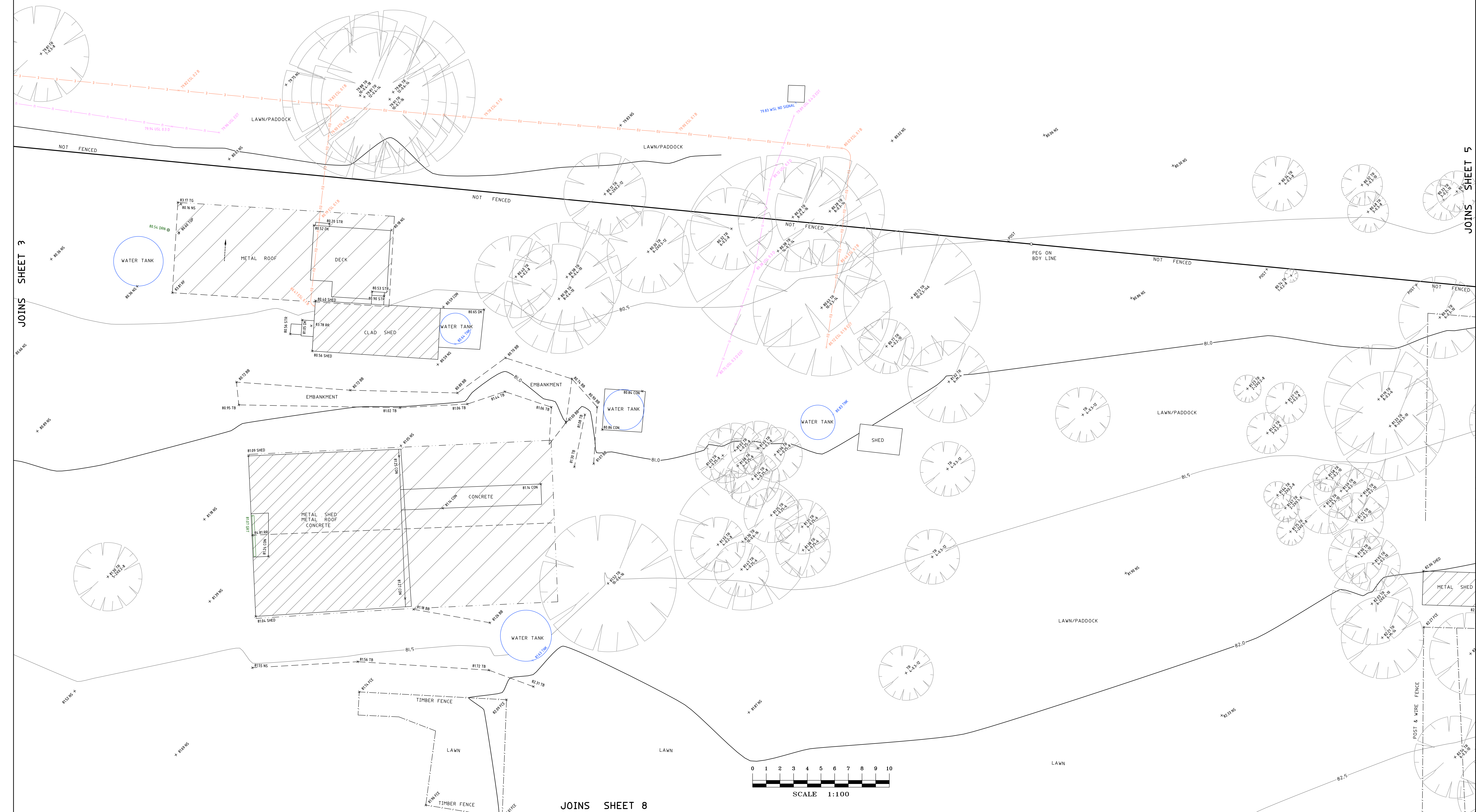
**SURVEY PLAN
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MARKING & UNDERGROUND SERVICES
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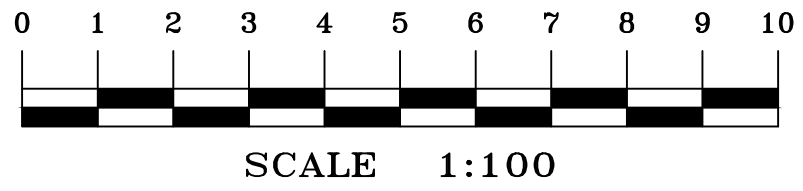
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E-mail: info@cmsurveyors.com.au

LGA: CAMDEN SHEET 4 OF 4

SURVEYED TH/BS	DRAWN MC/GP	CHECKED TH/BS	APPROVE LJ/-
SURVEY INSTRUCTION 2013IA		SCALE 1:100 & A0	DATE OF SURVEY 15-17/03/2021 16/11/2021
DRAWING NAME 2013Adetail			ISSUE 2
CAD FILE 2013Adetail 2.dwg			



[illegible]

LEGEND:

AB = AWNING
 BB = BOTTOM OF BANK
 BT = BUTTEND
 BLD = EXTERNAL BUILDING
 BR = BRIDGE
 BW = BOTTOM WALL
 CH = CHIMNEY
 CL = CENTRELINE
 CON = CONCRETE
 CS = COMMUNICATIONS SURFACE LEVEL
 DE = DECK
 DS = DOORS SILL LEVEL
 ELO = ELECTRICITY LINE OVERHEAD
 ELS = ELECTRICITY SURFACE LEVEL
 F = FENCE
 FL = FLOOR LEVEL
 FOW = FILL OF WATER
 GARF = GARAGE FLOOR LEVEL
 GNS = GARDEN
 GINFD = GIN FLOOR
 GRN = GRAVEL
 GRD = GRATE
 HL = HOOD LEVEL
 HD = HYDRANT
 IL = INVERT LEVEL
 INS = INSPECTION PIT
 LAN = LANDING
 LID = MISCELLANEOUS PIT LID
 MSL = MEAN SEA LEVEL
 OPT = OPTIC FIBRE
 PAT = PAVEMENT
 PAV = PAVING
 PER = PERGOLA
 POOL = POOL
 POST = POST
 PTH = PATH
 RF = TOP OF ROOF
 RFD = ROOF RIDGE
 SHED = SHED
 SLS = SEWER
 STR = STRAITS
 SWA = STOP VALVE
 SWSL = STOPWATER SURFACE LEVEL
 TAP = TAP
 TB = TOP OF BANK
 TO = TABLE DRAIN
 TR = TOP OF GUTTER
 TILE = TILE
 TSK = TANK
 TP = TOP OF PIPE
 TR = TREE
 TW = TOP OF WALL
 ULS = UNKNOWN SURFACE LEVEL
 WSL = WATER SURFACE LEVEL

NOTES

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- CONTOUR INTERVAL - 0.5 metre - SPOT LEVELS SHOULD BE ADDED.
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STEPHEN ENERY
REGISTERED SURVEYOR 30333 NUMBER 1695

LEGEND:

- AW = AWNING
BB = BOTTOM OF BANK
BIT = BITUMEN
BLD = EXTERNAL BUILDING
BRE = BRIDGE
BW = BOTTOM WALL
CHI = CHIMNEY
CL = CENTRAL LINE
CON = CONCRETE
CSL = COMMUNICATIONS SURFACE LEVEL
DK = DECK
DS = DOOR SILL LEVEL
ELO = ELECTRICITY LINE OVERHEAD
ESL = ELECTRICITY SURFACE LEVEL
FCE = FENCE
FL = FLOOR LEVEL
FOW = FILL OF WATER
GARL = GARAGE FLOOR LEVEL
GDN = GARDEN
GND = GIN FOUND
GRA = GRAVEL
GRT = GRATE
HL = HOOD LEVEL
HYD = HYDRANT
IL = INVERT LEVEL
INS = INSPECTION PIT
LAN = LANDING
LID = MISCELLANEOUS PIT LID
NS = NATURAL SURFACE
OU = OPTIC FIBRE
PAT = PATIO
PAV = PAVING
PER = PERGOLA
POOL = POOL
POST = POST
PTH = PATH
RF = TOP OF ROOF
RR = ROOF RIDGE
SHED = SHED
SSL = SEWER SURFACE LEVEL
STR = STAIRS
SVA = STOP VALVE
SWSL = STORMWATER SURFACE LEVEL
TAP = TAP
TB = TOP OF BANK
TG = TOP OF GUTTER
TIL = TILE
TNK = TANK
TOP = TOP OF PIPE
TR = TREE
TW = TOP OF WALL
USL = UNKNOWN SERVICE SURFACE LEVEL
WM = WATER METER
WSL = WATER SURFACE LEVEL

TREE
SPREAD-DIAMETER-HEIGHT

LEGEND: (SEE NOTES 1)

- C = COMMUNICATIONS LINES UNDERGROUND
E = ELECTRICITY LINES OVERHEAD
E = ELECTRICITY LINE UNDERGROUND
N = NON LINE UNDERGROUND
S = SEWER LINE UNDERGROUND
ST = STORMWATER LINE UNDERGROUND
U = UNKNOWN LINE UNDERGROUND
W = WATER LINE UNDERGROUND

CODE	DEPTH	DIAMETER	NOTE
105.78	SSL	B 131 0.10	EOT
RL	LOCATION	QUALITY	

THIS SHEET IS TO BE READ IN CONJUNCTION WITH NOTES & LEGEND SEE SHEET 1

HORIZONTAL DATUM:
CO-ORDINATE SYSTEM: MGA
MARKS ADOPTED: SSMS15698 AND PM32686

VERTICAL DATUM:
DATUM: AUSTRALIAN HEIGHT DATUM (AHD)
B.M. ADOPTED: SSMS15698
R.L. 73.521 (CLASS LC)
SOURCE: S.C.I.M.S. (11/03/2021)

2 DETAIL UPDATED 19/11/2021
1 FIRST ISSUE 25/03/2021

CLIENT:
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ISLAMIC COLLEGE LTD
C/O SUITE 7, 33 ALEXANDRIA STREET
HUNTERS HILL, NSW, 2110

SURVEY PLAN
SHOWING DETAIL & LEVELS, BOUNDARY
MARKING & UNDERGROUND SERVICES
OVER LOT 11 IN DP833088 &
OVER LOT 12 IN DP833784
No.268-278 CATHERINE FIELD ROAD
CATHERINE FIELD, NSW, 2171

C.M.S. Surveyors
Pty Limited
ACN: 096 240 201

PO Box 463 Dee Why
NSW 2099
2/39A South Creek Road,
Dee Why NSW 2099
Telephone: (02) 9971 4802
Facsimile: (02) 9971 4822
Email: info@cmsurveyors.com.au

LGA: CAMDEN

SHEET 6 OF 15

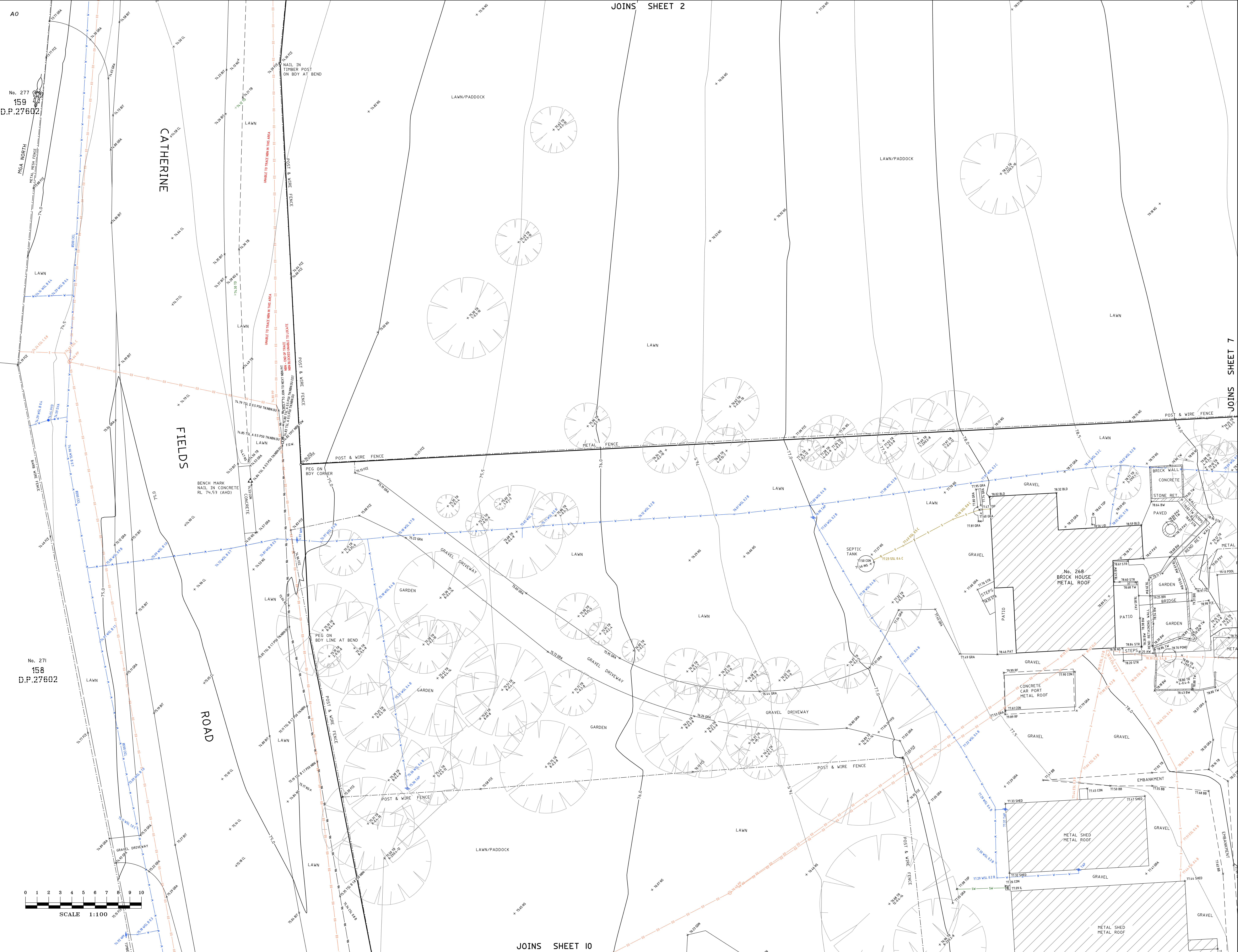
SURVEYED	DRAWN	CHECKED	APPROVED
TH/BS	MC/GP	TH/BS	LJ/-
SURVEY INSTRUCTION	SCALE	DATE OF SURVEY	
2019A	1:100 @ AD	15-17/03/2021	
DRAWING NAME	CAD FILE	ISSUE	
2019Adetail	2019Adetail.dwg	2	

2019Adetail.dwg

JOINS SHEET 2

JOINS SHEET 7

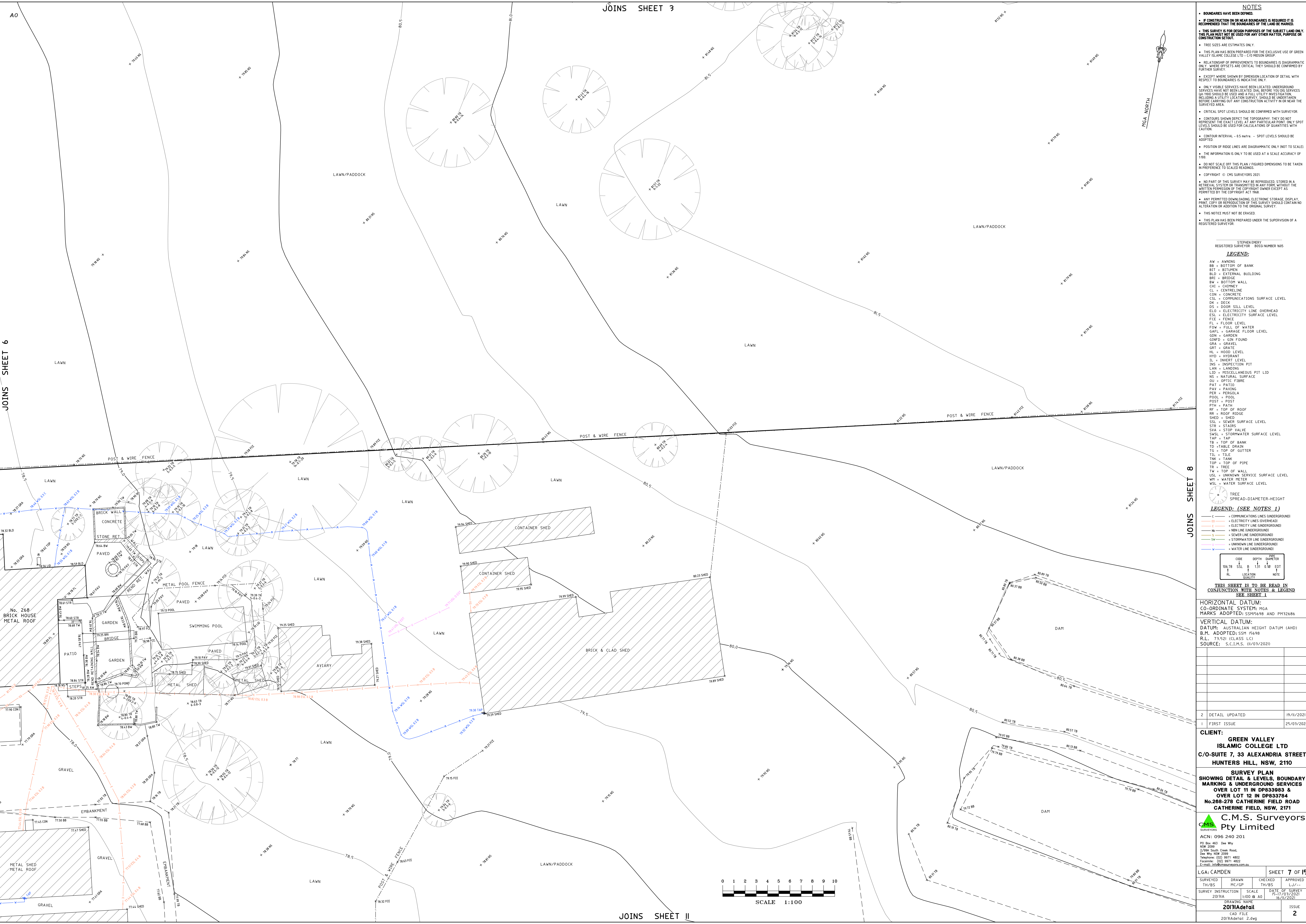
JOINS SHEET 10



No. 277
159
D.P.27602

No. 271
158
D.P.27602

SCALE 1:100



• BOUNDARIES HAVE BEEN DEFINED.

• IF CONSTRUCTION ON OR NEAR BOUNDARIES IS REQUIRED IT IS RECOMMENDED THAT THE BOUNDARIES OF THE LAND BE MARKED.

• THIS SURVEY IS FOR DESIGN PURPOSES OF THE SUBJECT LAND ONLY. THIS PLAN MUST 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 GREEN VALLEY ISLAMIC COLLEGE LTD - C/O MISHKIN GROUP.

• RELATIONSHIP OF IMPROVEMENTS TO BOUNDARIES IS DIAGNOSTIC 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 DIAL BEFORE YOU DO SERVICES (IN 1900 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.

• CRITICAL SPOT LEVELS SHOULD BE CONFIRMED WITH SURVEYOR.

• 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.

• CONTOUR INTERVAL - 0.5 metre - SPOT LEVELS SHOULD BE ADOPED.

• POSITION OF RIDGE LINES ARE DIAGNOSTIC ONLY (NOT TO SCALE).

• THE INFORMATION IS ONLY TO BE USED AT A SCALE ACCURACY OF 1:100.

• DO NOT SCALE OFF THIS PLAN / FIGURED DIMENSIONS TO BE TAKEN IN PREFERENCE TO SCALED READINGS.

• COPYRIGHT © CHS SURVEYORS 2021.

• NO PART OF THIS SURVEY MAY BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM OR TRANSMITTED IN ANY FORM, WITHOUT THE WRITTEN PERMISSION OF THE COPYRIGHT OWNER EXCEPT AS PERMITTED BY THE COPYRIGHT ACT 1968.

• ANY PERMITTED DOWNLOADING, ELECTRONIC STORAGE, DISPLAY, PRINT, COPY OR REPRODUCTION OF THIS SURVEY SHOULD CONTAIN NO ALTERATION OR ADDITION TO THE ORIGINAL SURVEY.

• THIS NOTICE MUST NOT BE ERASED.

• THIS PLAN HAS BEEN PREPARED UNDER THE SUPERVISION OF A REGISTERED SURVEYOR.

STEPHEN ENERGY
REGISTERED SURVEYOR - 2021 NUMBER 1605

LEGEND:
AW = AWNING
BB = BOTTOM OF BANK
BIT = BITUMEN
BLD = EXTERNAL BUILDING
BRE = BRIDGE
BW = BOTTOM WALL
CHI = CHIMNEY
CL = CENTRILINE
CON = CONCRETE
CSL = COMMUNICATIONS SURFACE LEVEL
DK = DECK
DS = DOOR SILL LEVEL
ELO = ELECTRICITY LINE OVERHEAD
ESL = ELECTRICITY SURFACE LEVEL
FCE = FENCE
FL = FLOOR LEVEL
FOW = FULL OF WATER
GARL = GARAGE FLOOR LEVEL
GDN = GARDEN
GMD = GIN FOUND
GRA = GRAVEL
GRT = GRATE
HL = HOOD LEVEL
HYD = HYDRANT
IL = INVERT LEVEL
INS = INSPECTION PIT
LAN = LANDING
LID = MISCELLANEOUS PIT LID
NS = NATURAL SURFACE
OU = OPTIC FIBRE
PAT = PATIO
PAV = PAVING
PER = PERGOLA
POOL = POOL
POST = POST
PTH = PATH
RF = TOP OF ROOF
RR = ROOF RIDGE
SHED = SHED
SSL = SEWER SURFACE LEVEL
STR = STAIRS
SVA = STOP VALVE
SWSL = STORMWATER SURFACE LEVEL
TAP = TAP
TB = TOP OF BANK
TD = TABLE DRAIN
TG = TOP OF GUTTER
TIL = TILE
TNK = TANK
TOP = TOP OF PIPE
TR = TREE
TW = TOP OF WALL
USL = UNKNOWN SERVICE SURFACE LEVEL
WM = WATER METER
WSL = WATER SURFACE LEVEL

• TREE
SPREAD-DIAMETER-HEIGHT

LEGEND: (SEE NOTES 1)
C = COMMUNICATIONS LINES UNDERGROUND
E = ELECTRICITY LINES OVERHEAD
E = ELECTRICITY LINE UNDERGROUND
N = NBN LINE UNDERGROUND
S = SEWER LINE UNDERGROUND
SW = STORMWATER LINE UNDERGROUND
U = UNKNOWN LINE UNDERGROUND
W = WATER LINE UNDERGROUND

CODE	DEPTH	DIAMETER	NOTE
105.78	SSL	B	1.31 0.10 EOT
RL	LOCATION	QUALITY	NOTE

THIS SHEET IS TO BE READ IN CONJUNCTION WITH NOTES & LEGEND SEE SHEET 1

HORIZONTAL DATUM:
CO-ORDINATE SYSTEM: MGA
MARKS ADOPTED: SSM15698 AND PM32686

VERTICAL DATUM:
DAUM: AUSTRALIAN HEIGHT DATUM (AHD)
B.M. ADOPTED: SSM 15698
R.L.: 73.52 (CLASS LC)
SOURCE: S.C.I.M.S. (11/03/2021)

2 DETAIL UPDATED 19/11/2021

1 FIRST ISSUE 25/03/2021

CLIENT:
GREEN VALLEY
ISLAMIC COLLEGE LTD
C/O-SUITE 7, 33 ALEXANDRIA STREET
HUNTERS HILL, NSW, 2110

SURVEY PLAN
SHOWING DETAIL & LEVELS, BOUNDARY
MARKING & UNDERGROUND SERVICES
OVER LOT 11 IN DP833083 &
OVER LOT 12 IN DP833784
No.268-278 CATHERINE FIELD ROAD
CATHERINE FIELD, NSW, 2171

C.M.S. Surveyors
Pty Limited

ACN: 096 240 201
PO Box 463 Dee Why
NSW 2099
2/29A South Creek Road,
Dee Why NSW 2099
Telephone: (02) 9971 4802
Facsimile: (02) 9971 4822
E-mail: info@cmsurveyors.com.au

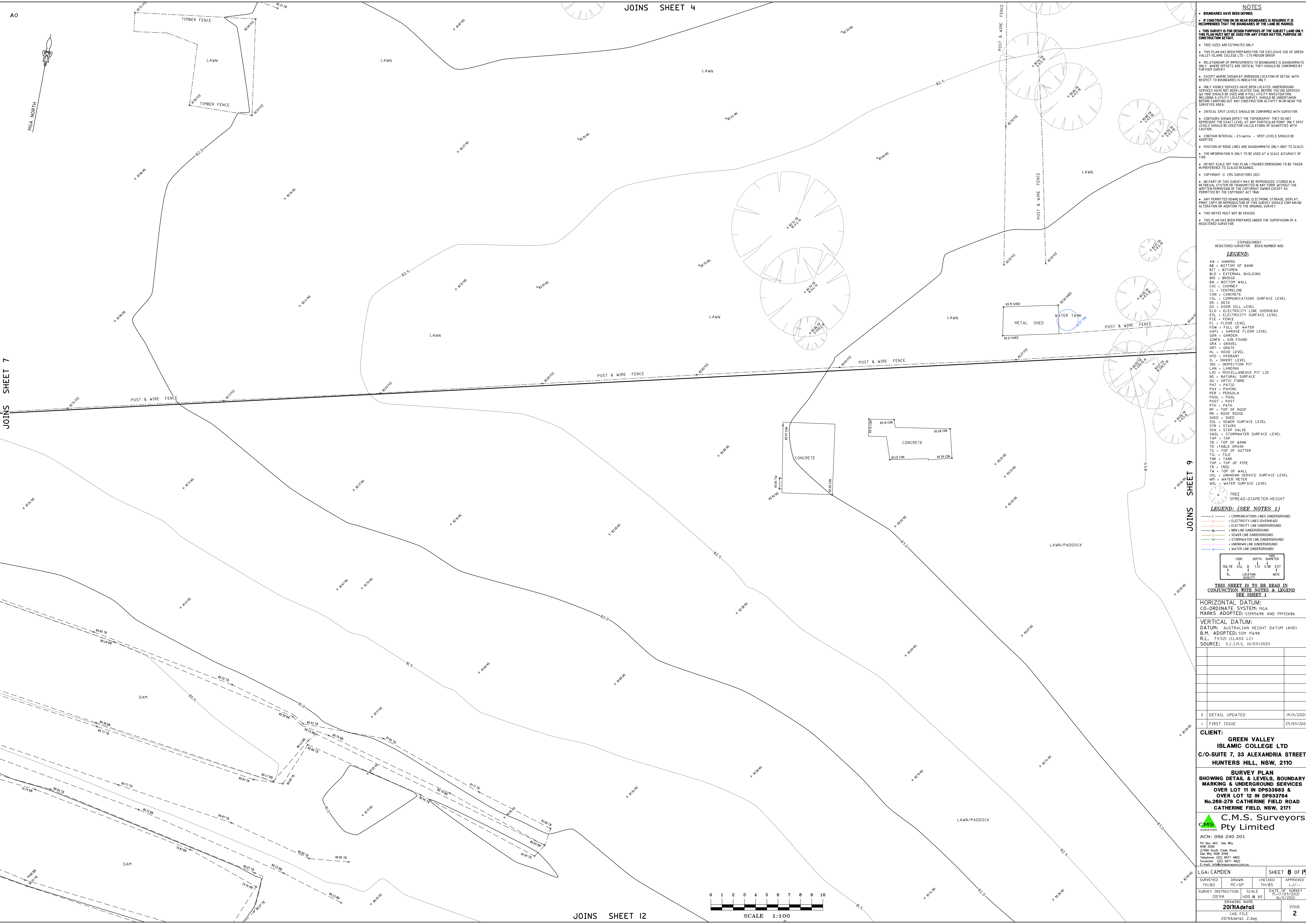
LGA: CAMDEN

SHEET 7 OF 15

SURVEYED TH/BS
DRAWN MC/GP
CHECKED TH/BS
APPROVED LJ/-

SURVEY INSTRUCTION 2019A
DRAWING NAME 2019Adetail
CAD FILE 2019Adetail_2.dwg

DATE OF SURVEY 15-17/03/2021
L100 M AD 16/11/2021
ISSUE 2



- NOTES**
- **BOUNDARIES HAVE BEEN DEFINED.**
 - **IF CONSTRUCTION ON OR NEAR BOUNDARIES IS REQUIRED IT IS RECOMMENDED THAT THE BOUNDARIES OF THE LAND BE MARKED.**
 - **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 GREEN VALLEY ISLAMIC COLLEGE LTD - C/O MASON GRANGE.
 - 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 DIAL BEFORE YOU DO SERVICES (IN 1900 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.
 - CRITICAL SPOT LEVELS SHOULD BE CONFIRMED WITH SURVEYOR.
 - 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.
 - CONTOUR INTERVAL - 0.5 metre - SPOT LEVELS SHOULD BE ADDED.
 - POSITION OF RIDGE LINES ARE DIAGRAMMATIC ONLY (NOT TO SCALE).
 - THE INFORMATION IS ONLY TO BE USED AT A SCALE ACCURACY OF 1:100.
 - DO NOT SCALE OFF THIS PLAN / FIGURED DIMENSIONS TO BE TAKEN IN PREFERENCE TO SCALED READINGS.
 - COPYRIGHT © CMS SURVEYORS 2021.
 - NO PART OF THIS SURVEY MAY BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM OR TRANSMITTED IN ANY FORM, WITHOUT THE WRITTEN PERMISSION OF THE COPYRIGHT OWNER EXCEPT AS PERMITTED BY THE COPYRIGHT ACT 1968.
 - ANY PERMITTED DOWNLOADING, ELECTRONIC STORAGE, DISPLAY, PRINT, COPY OR REPRODUCTION OF THIS SURVEY SHOULD CONTAIN NO ALTERATION OR ADDITION TO THE ORIGINAL SURVEY.
 - THIS NOTICE MUST NOT BE ERASED.
 - THIS PLAN HAS BEEN PREPARED UNDER THE SUPERVISION OF A REGISTERED SURVEYOR.

STEPHEN ENERGY
REGISTERED SURVEYOR (SSM) NUMBER 1605

LEGEND:

AW = AWNING
BB = BOTTOM OF BANK
BIT = BITUMEN
BLD = EXTERNAL BUILDING
BRE = BRIDGE
BW = BOTTOM WALL
CHI = CHIMNEY
CL = CENTRELINE
CON = CONCRETE
CSL = COMMUNICATIONS SURFACE LEVEL
DK = DECK
DS = DOOR SILL LEVEL
E.O. = ELECTRICITY LINE OVERHEAD
ESL = ELECTRICITY SURFACE LEVEL
FCE = FENCE
FL = FLOOR LEVEL
FOW = FULL OF WATER
GARL = GARAGE FLOOR LEVEL
GDN = GARDEN
GNDP = GIN FOUND
GRA = GRAVEL
GRY = GRATE
HL = HOOD LEVEL
HYD = HYDRANT
IL = INVERT LEVEL
INS = INSPECTION PIT
LAN = LANDING
LID = MISCELLANEOUS PIT LID
NS = NATURAL SURFACE
OU = OPTIC FIBRE
PAT = PATIO
PAV = PAVING
PER = PERGOLA
POOL = POOL
POST = POST
PTH = PATH
RF = TOP OF ROOF
RR = ROOF RIDGE
SHED = SHED
SSL = SEWER SURFACE LEVEL
STR = STAIRS
SVA = STOP VALVE
SWSL = STORMWATER SURFACE LEVEL
TAP = TAP
TB = TOP OF BANK
TD = TABLE DRAIN
TG = TOP OF GUTTER
TIL = TILE
TNK = TANK
TOP = TOP OF PIPE
TP = TREE
TW = TOP OF WALL
USL = UNKNOWN SERVICE SURFACE LEVEL
WM = WATER METER
WSL = WATER SURFACE LEVEL

TREE
SPREAD-DIAMETER-HEIGHT

LEGEND: (SEE NOTES 1)

— C — = COMMUNICATIONS LINES (UNDERGROUND)
— E.O. — = ELECTRICITY LINES (OVERHEAD)
— E — = ELECTRICITY LINE (UNDERGROUND)
— NS — = NATURAL SURFACE
— S — = SEWER LINE (UNDERGROUND)
— SW — = STORMWATER LINE (UNDERGROUND)
— U — = UNKNOWN LINE (UNDERGROUND)
— W — = WATER LINE (UNDERGROUND)

CODE DEPTH DIAMETER
105.78 SSL B 131 0.10 EOT
RL LOCATION NOTE

THIS SHEET IS TO BE READ IN CONJUNCTION WITH NOTES & LEGEND SEE SHEET 1

HORIZONTAL DATUM:
CO-ORDINATE SYSTEM: MGA
MARKS ADOPTED: SSM15698 AND PM32686

VERTICAL DATUM:
DATUM: AUSTRALIAN HEIGHT DATUM (AHD)
B.M. ADOPTED: SSM 15698
R.L. 73.52 (CLASS L.C.)
SOURCE: S.C.I.M.S. (11/03/2021)

2	DETAIL UPDATED	19/11/2021
1	FIRST ISSUE	25/03/2021

CLIENT:
GREEN VALLEY ISLAMIC COLLEGE LTD
C/O-SUITE 7, 33 ALEXANDRIA STREET
HUNTERS HILL, NSW, 2110

SURVEY PLAN
SHOWING DETAIL & LEVELS, BOUNDARY MARKING & UNDERGROUND SERVICES
OVER LOT 11 IN DP833983 & OVER LOT 12 IN DP833784
No.268-278 CATHERINE FIELD ROAD
CATHERINE FIELD, NSW, 2171

C.M.S. Surveyors Pty Limited
ACN: 096 240 201
PO Box 463 Dee Why NSW 2099
2/89A South Creek Road, Dee Why NSW 2099
Telephone: (02) 9971 4802
Facsimile: (02) 9971 4822
E-mail: info@cmsurveyors.com.au

LGA: CAMDEN		SHEET 8 OF 15	
SURVEYED TH/BS	DRAWN MC/GP	CHECKED TH/BS	APPROVED LJ/--
SURVEY INSTRUCTION 2019A	SCALE HOD B AD	DATE OF SURVEY 15-17/03/2021	DATE OF SURVEY 16/11/2021
DRAWING NAME 2019Adetail			ISSUE 2
CAD FILE 2019Adetail_2.dwg			

2	DETAIL UPDATED	19/11/2021
1	FIRST ISSUE	25/03/2021

CLIENT: GREEN VALLEY
ISLAMIC COLLEGE LTD
C/O-SUITE 7, 33 ALEXANDRIA STREET
HUNTERS HILL, NSW, 2110

SURVEY PLAN
SHOWING DETAIL & LEVELS, BOUNDARY
MARKING & UNDERGROUND SERVICES
OVER LOT 11 IN DP833983 &
OVER LOT 12 IN DP833784
No.268-278 CATHERINE FIELD ROAD
CATHERINE FIELD, NSW, 2171

 **C.M.S. Surveyors**
Pty Limited
ACN: 096 240 201

PO Box 463 Dee Why
NSW 2099
2/98A South Creek Road,
Dee Why NSW 2099
Telephone: (02) 9971 4802
Facsimile: (02) 9971 4822
E-mail: info@cmsurveyors.com.au

LGA: CAMDEN			SHEET 9 of 15	
SURVEYED TH/BS	DRAWN MC/GP	CHECKED TH/BS	APPROVED LJ/--	
SURVEY INSTRUCTION 2013IA		SCALE 1:100 @ A0	DATE OF SURVEY 15-17/03/2021 16/11/2021	
DRAWING NAME 2013IA detail			ISSUE 2	
CAD FILE 2013IAdetail 2.dwg				



- NOTES**
- BOUNDARIES HAVE BEEN DEFINED.
 - IF CONSTRUCTION ON OR NEAR BOUNDARIES IS REQUIRED IT IS RECOMMENDED THAT THE BOUNDARIES OF THE LAND BE MARKED.
 - 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 GREEN VALLEY ISLAMIC COLLEGE LTD - C/O MCGRAW HILL GROUP.
 - 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 DIAL BEFORE YOU DO SERVICES. A UTILITY LOCATION SURVEY SHOULD BE UNDERTAKEN BEFORE CARRYING OUT ANY CONSTRUCTION ACTIVITY IN OR NEAR THE SURVEYED AREA.
 - CRITICAL SPOT LEVELS SHOULD BE CONFIRMED WITH SURVEYOR.
 - 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.
 - CONTOUR INTERVAL - 0.5 metre - SPOT LEVELS SHOULD BE ADDED.
 - POSITION OF RIDGE LINES ARE DIAGRAMMATIC ONLY (NOT TO SCALE).
 - THE INFORMATION IS ONLY TO BE USED AT A SCALE ACCURACY OF 1:100.
 - DO NOT SCALE OFF THIS PLAN / FIGURED DIMENSIONS TO BE TAKEN IN PREFERENCE TO SCALED READINGS.
 - COPYRIGHT © C.M.S. SURVEYORS 2021.
 - NO PART OF THIS SURVEY MAY BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM OR TRANSMITTED IN ANY FORM, WITHOUT THE WRITTEN PERMISSION OF THE COPYRIGHT OWNER EXCEPT AS PERMITTED BY THE COPYRIGHT ACT 1968.
 - ANY PERMITTED DOWNLOADING, ELECTRONIC STORAGE, DISPLAY, PRINT, COPY OR REPRODUCTION OF THIS SURVEY SHOULD CONTAIN NO ALTERATION OR ADDITION TO THE ORIGINAL SURVEY.
 - THIS NOTICE MUST NOT BE ERASED.
 - THIS PLAN HAS BEEN PREPARED UNDER THE SUPERVISION OF A REGISTERED SURVEYOR.

STEPHEN HENRY
REGISTERED SURVEYOR NO. 1605

LEGEND:

AW = AWNING
BB = BOTTOM OF BANK
BIT = BITUMEN
BLD = EXTERNAL BUILDING
BR = BRIDGE
BW = BOTTOM WALL
CHI = CHIMNEY
CL = CENTRAL LINE
CON = CONCRETE
CSL = COMMUNICATIONS SURFACE LEVEL
DK = DECK
DS = DOOR SILL LEVEL
E.O. = ELECTRICITY LINE OVERHEAD
ESL = ELECTRICITY SURFACE LEVEL
FCE = FENCE
FL = FLOOR LEVEL
FOW = FULL OF WATER
GARL = GARAGE FLOOR LEVEL
GDN = GARDEN
GND = GIN FOUND
GRA = GRAVEL
GRT = GRATE
HL = HOOD LEVEL
HYD = HYDRANT
IL = INVERT LEVEL
INS = INSPECTION PIT
LAN = LANDING
LID = MISCELLANEOUS PIT LID
NS = NATURAL SURFACE
OU = OPTIC FIBRE
PAT = PATIO
PAV = PAVING
PER = PERGOLA
POOL = POOL
POST = POST
PTH = PATH
RF = TOP OF ROOF
RR = ROOF RIDGE
SHED = SHED
STR = STAIRS
SSL = SEWER SURFACE LEVEL
SVA = STOP VALVE
SWSL = STORMWATER SURFACE LEVEL
TAP = TAP
TB = TOP OF BANK
TD = TABLE DRAIN
TG = TOP OF GUTTER
TIL = TILE
TNK = TANK
TOP = TOP OF PIPE
TO = TREE
TW = TOP OF WALL
USL = UNKNOWN SERVICE SURFACE LEVEL
WM = WATER METER
WSL = WATER SURFACE LEVEL

LEGEND: (SEE NOTES 1)

— = COMMUNICATIONS LINES UNDERGROUND
— = ELECTRICITY LINES OVERHEAD
— = ELECTRICITY LINE UNDERGROUND
— = NON LINE UNDERGROUND
— = SEWER LINE UNDERGROUND
— = STORMWATER LINE UNDERGROUND
— = UNKNOWN LINE UNDERGROUND
— = WATER LINE UNDERGROUND

THIS SHEET IS TO BE READ IN CONJUNCTION WITH NOTES & LEGEND SEE SHEET 1

CODE	DEPTH	DIAMETER	PIPE		
105.78	SSL	B	131	0.10	EOT
RL	LOCATION	QUALITY	NOTE		

HORIZONTAL DATUM: CO-ORDINATE SYSTEM: MGA MARKS ADOPTED: SSM15698 AND PM32686		
VERTICAL DATUM: DATUM: AUSTRALIAN HEIGHT DATUM (AHD) B.M. ADOPTED: SSM 15698 R.L. 73.52 (CLASS LC) SOURCE: S.C.I.M.S. (11/03/2021)		
2	DETAIL UPDATED	19/11/2021
1	FIRST ISSUE	25/03/2021
CLIENT: GREEN VALLEY ISLAMIC COLLEGE LTD C/O-SUITE 7, 33 ALEXANDRIA STREET HUNTERS HILL, NSW, 2110		
SURVEY PLAN SHOWING DETAIL & LEVELS, BOUNDARY MARKING & UNDERGROUND SERVICES OVER LOT 11 IN DP833083 & OVER LOT 12 IN DP833784 No.268-278 CATHERINE FIELD ROAD CATHERINE FIELD, NSW, 2171		
 C.M.S. Surveyors Pty Limited		
ACN: 096 240 201 PO Box 463 Dee Why NSW 2099 2/89A South Creek Road, Dee Why NSW 2099 Telephone: (02) 9971 4802 Facsimile: (02) 9971 4822 E-mail: info@cmsurveyors.com.au		
LGA: CAMDEN		
SHEET 10 OF 15		
SURVEYED TH/BS	DRAWN MC/GP	CHECKED TH/BS
SURVEY INSTRUCTION 2019A		DATE OF SURVEY 15-17/03/2021
DRAWING NAME 2019Adetail		ISSUE 2
CAD FILE 2019Adetail 2.dwg		

- BOUNDARIES HAVE BEEN DEFINED.
- IF CONSTRUCTION ON OR NEAR BOUNDARIES IS REQUIRED IT IS UNDERSTOOD THAT THE BOUNDARIES OF THE LAND ARE MARKED.
- THIS SURVEY IS FOR DESIGN PURPOSES OF THE SUBJECT LAND. THIS PLAN MUST NOT BE USED FOR ANY OTHER MATTER, PURPOSE OR CONSTRUCTION DETAIL.
- TREE SIZES ARE ESTIMATES ONLY.
- THIS PLAN HAS BEEN PREPARED FOR THE EXCLUSIVE USE OF VALLEY SILVER COLLEGE LTD. - C/MISS GRINDON.
- RELATIONSHIP OF PROPOSED TO BOUNDARIES IS DIAGRAMMATICALLY REPRESENTED. DISCREPANCIES, THEREFORE, SHOULD BE CONFIRMED BY FURTHER SURVEY.
- EXCEPT WHERE SHOWN BY DISCREPANCIAL DETAIL, WITH PERMISSION OF THE SURVEYOR, THE FOLLOWING APPLIES:
 - ONLY VISIBLE SURVEY STATIONS HAVE BEEN LOCATED. UNDERSTANDING THAT THE SURVEYOR HAS BEEN ADVISED THAT THERE ARE NO SERVICES ON 1000 SHOULD BE USED AND A LOCAL UTILITY INVESTIGATION SHOULD BE CONDUCTED TO DETERMINE THE EXACT LOCATION OF ANY BEFORE CARRYING OUT ANY CONSTRUCTION WORK ON OR NEAR THE SURVEYED AREA.
 - ONLY 1000 LEVEL SHOULD BE CONFIRMED WITH SURVEYOR.
 - CONTIGUOUS CHANGING TOPOGRAPHY. THEY DO NOT REPRESENT THE EXACT LEVEL, AT ANY PARTICULAR POINT. ONLY 1000 SHOULD BE USED FOR CALCULATIONS OF QUANTITIES WITH CAUTION.
 - CONTIGUOUS INTERVAL. - 0.5 metre. - LEVEL SPOTLIGHTS SHOULD BE NOTED.
 - POSITION OF RIDGE LINES ARE DIAGRAMMATIC ONLY. NOT TO SCALE.
 - THE INFORMATION ONLY IS TO BE USED AT A SCALE ACCURACY OF 1:100.
 - NOT TO SCALE OFF OF THIS PLAN, FIGURED DIMENSIONS TO BE TAKEN FROM THE SURVEYOR'S FIELD BOOK.
 - COPYRIGHT © C/MISS SURVEYORS 2021.
 - NO PART OF THIS SURVEY MAY BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM OR TRANSMITTED IN ANY FORM, WITHOUT THE WRITTEN PERMISSION OF THE SURVEYOR'S OWNER (LEGAL AS PERMITTED BY THE COPYRIGHT ACT 1968).
 - ANY PERMITTED DOWNLOADING, ELECTRONIC STORAGE, DISPLAY OR TRANSMISSION OF THIS SURVEY MUST NOT CONTAIN OR ALTERATION IN ADDITION TO THE ORIGINAL SURVEY.
 - THIS NOTICE MUST NOT BE ERASED.
 - THIS PLAN HAS BEEN PREPARED UNDER THE SUPERVISION OF A REGISTERED SURVEYOR.

STEPHEN EMERY
REGISTERED SURVEYOR BOSSI NUMBER 9405

LEGEND:

AM = AWMING
BN = BOTTOM OF BANK
BLT = BITUMEN
BLD = EXTERNAL BUILDING
BLD = BRIDGE
BW = BOTTOM WALL
CL = CORMICEY
CL = CENTRELINE
CON = CONCRETE
CSL = COMMUNICATIONS SURFACE LEVEL
DR = DECK
DSC = DOOR SILL LEVEL
ELO = ELECTRICITY LINE OVERHEAD
ESL = ELECTRICITY SURFACE LEVEL
F = FENCE
FL = FLOOR LEVEL
FOW = FILL OF WATER
GAFI = GARAGE FLOOR LEVEL
GDN = GARDEN
GIMED = GIN FOUND
GRA = GRAVEL
GRT = GRATE
HL = HOOD LEVEL
HID = HYDRANT
IL = INVESTMENT
INS = INSPECTION PIT
LAN = LANDING
LID = MISCELLANEOUS PIT LID
LND = LANDING
LO = OPTIC FIBRE
PAT = PATIO
PAV = PAVING
PER = PERGOLA
PSOL = POOL
POST = POST
RF = PATH
RH = TOP OF ROOF
RR = ROOF RIDGE
SHED = SHED
SSL = SEWER SURFACE LEVEL
STR = STAIRS
TV = STOP VALVE
WSWL = STORMWATER SURFACE LEVEL
TB = TOP OF BANK
TB = TOP OF PIPE
TR = TRENCH
TW = TOP OF WALL
USL = UNKNOWN SURFACE LEVEL
WATER = WATER
WSL = WATER SURFACE LEVEL


 TREE
 SPREAD-DIAMETER-HEIGHT

LEGEND: (SEE NOTES 1)

- C = COMMUNICATIONS LINE (UNDERGROUND)
- LO = ELECTRICITY LINES (OVERHEAD)
- E = ELECTRICITY LINE (UNDERGROUND)
- NB = NBN LINE (UNDERGROUND)
- S = SEWER LINE (UNDERGROUND)
- STW = STORMWATER LINE (UNDERGROUND)
- UNK = UNKNOWN (UNDERGROUND)
- W = WATER LINE (UNDERGROUND)

CODE	DEPTH	PIPE DIAMETER
106.78	SSL	1.31
RL	B	0.60
	LOCATION QUALITY	EQT
		NOTE

THIS SHEET IS TO BE READ IN
CONJUNCTION WITH NOTES & LEGEND
SEE SHEET 1

HORIZONTAL DATUM:
CO-ORDINATE SYSTEM: MGA
MARKS ADOPTED: SSM15698 AND PM32686

VERTICAL DATUM:
 DATUM: AUSTRALIAN HEIGHT DATUM (AHD)
 B.M. ADOPTED: SSM 15698
 R.L. 73.521 (CLASS LC)
 SOURCE: S.C.I.M.S. (11/03/2021)

2	DETAIL UPDATED	19/11/202
1	FIRST ISSUE	25/03/20

CLIENT:
GREEN VALLEY
ISLAMIC COLLEGE LTD
C/O-SUITE 7, 33 ALEXANDRIA STREET
HUNTERS HILL, NSW, 2110

SURVEY PLAN
SHOWING DETAIL & LEVELS, BOUNDARY
MARKING & UNDERGROUND SERVICES
OVER LOT 11 IN DP833983 &
OVER LOT 12 IN DP833784
No.268-278 CATHERINE FIELD ROAD
CATHERINE FIELD, NSW, 2171

 **C.M.S. Surveyors
Pty Limited**

ACN: 096 240 201

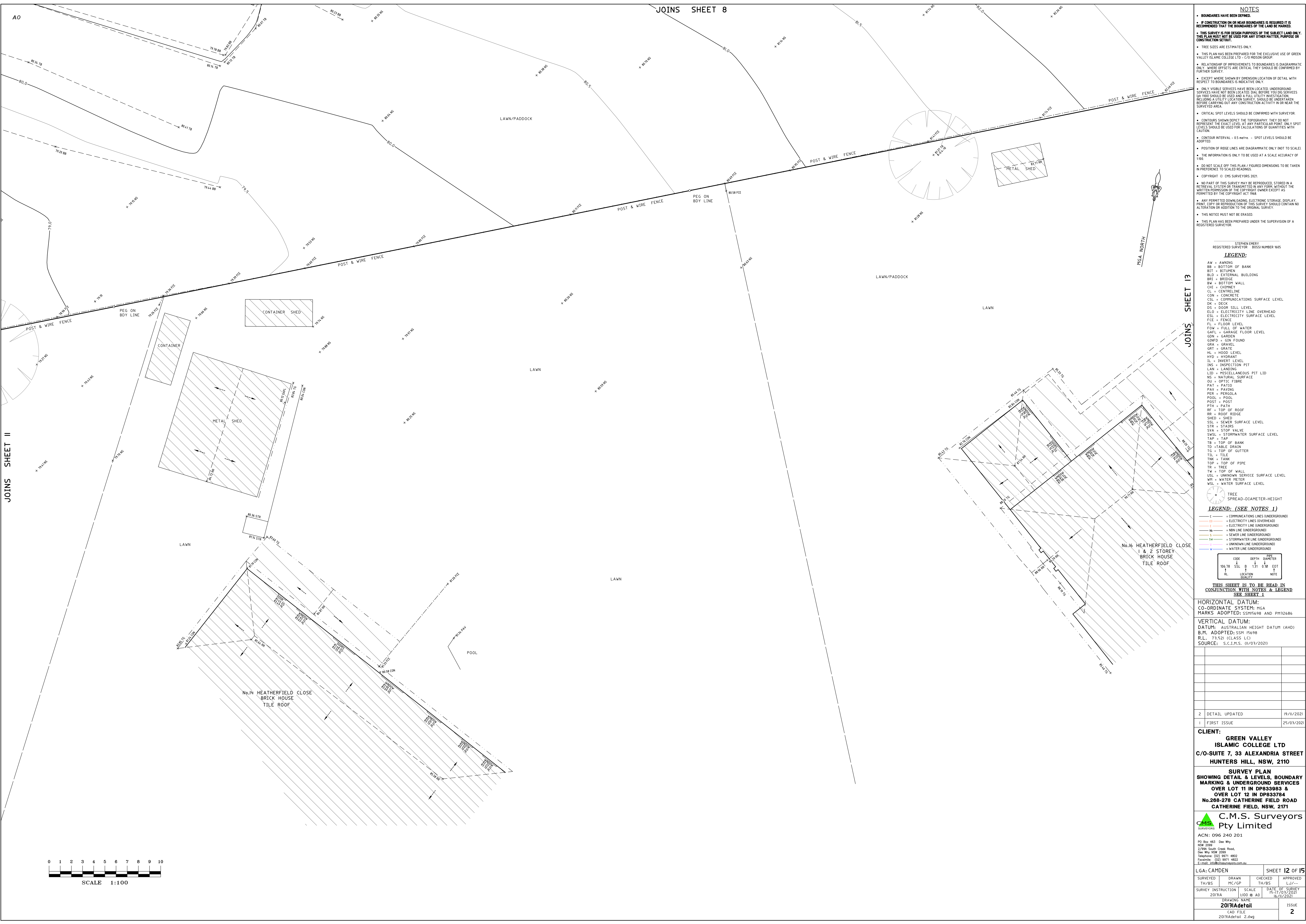
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NSW 2099

2/99A South Creek Road,
Dee Why NSW 2099

Telephone: (02) 9971 4602
Facsimile: (02) 9971 4822
E-mail: info@cmsurveyors.com.au

LGA: CAMDEN			SHEET 11 OF 11	
SURVEYED TH/BS	DRAWN MC/GP	CHECKED TH/BS	APPROVED LJ/--	
SURVEY INSTRUCTION 2013IA		SCALE 1:100 @ A0	DATE OF SURVEY 15-17/03/2021 16/10/2021	
DRAWING NAME 2013Adetail				ISSUE 2
CAD FILE 2013Adetail 2.dwg				





- NOTES**
- BOUNDARIES HAVE BEEN DEFINED.
 - IF CONSTRUCTION ON OR NEAR BOUNDARIES IS REQUIRED IT IS RECOMMENDED THAT THE BOUNDARIES OF THE LAND BE MARKED.
 - 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 GREEN VALLEY ISLAMIC COLLEGE LTD - C/O MASON GROUP.
 - RELATIONSHIP OF IMPROVEMENTS TO BOUNDARIES IS DIAGNOSTIC 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 NOT BEEN LOCATED DIAL BEFORE YOU DO SERVICES (IN 1900 SHOULD BE USED AND A FULL UTILITY INVESTIGATION REQUIRED). A LOCATION SURVEY SHOULD BE UNDERTAKEN BEFORE CARRYING OUT ANY CONSTRUCTION ACTIVITY IN OR NEAR THE SURVEYED AREA.
 - CRITICAL SPOT LEVELS SHOULD BE CONFIRMED WITH SURVEYOR.
 - 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.
 - CONTOUR INTERVAL - 0.5 metre - SPOT LEVELS SHOULD BE ADJUSTED.
 - POSITION OF RIDGE LINES ARE DIAGNOSTIC ONLY (NOT TO SCALE).
 - THE INFORMATION IS ONLY TO BE USED AT A SCALE ACCURACY OF 1:100.
 - DO NOT SCALE OFF THIS PLAN / FIGURED DIMENSIONS TO BE TAKEN IN PREFERENCE TO SCALE READINGS.
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 - NO PART OF THIS SURVEY MAY BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM OR TRANSMITTED IN ANY FORM, WITHOUT THE WRITTEN PERMISSION OF THE COPYRIGHT OWNER EXCEPT AS PERMITTED BY THE COPYRIGHT ACT 1968.
 - ANY PERMITTED DOWNLOADING, ELECTRONIC STORAGE, DISPLAY, PRINT, COPY OR REPRODUCTION OF THIS SURVEY SHOULD CONTAIN NO ALTERATION OR ADDITION TO THE ORIGINAL SURVEY.
 - THIS NOTICE MUST NOT BE ERASED.
 - THIS PLAN HAS BEEN PREPARED UNDER THE SUPERVISION OF A REGISTERED SURVEYOR.

STEPHEN EMERY
REGISTERED SURVEYOR BOSS NUMBER 1605

LEGEND:

AW = AWNING
BB = BOTTOM OF BANK
BIT = BITUMEN
BLD = EXTERNAL BUILDING
BRE = BRIDGE
BW = BOTTOM WALL
CHI = CHIMNEY
CL = CENTRELINE
CON = CONCRETE
CSL = COMMUNICATIONS SURFACE LEVEL
DK = DECK
DS = DOOR SILL LEVEL
ELO = ELECTRICITY LINE OVERHEAD
ESL = ELECTRICITY SURFACE LEVEL
FCE = FENCE
FL = FLOOR LEVEL
FOW = FULL OF WATER
GARL = GARAGE FLOOR LEVEL
GDN = GARDEN
GNDP = GIN FOUND
GRA = GRAVEL
GRT = GRATE
HL = HOOD LEVEL
HYD = HYDRANT
IL = INVERT LEVEL
INS = INSPECTION PIT
LID = MISCELLANEOUS PIT LID
NS = NATURAL SURFACE
OU = OPTIC FIBRE
PAT = PATIO
PAV = PAVING
PER = PERGOLA
POOL = POOL
POST = POST
PTH = PATH
RF = TOP OF ROOF
RR = ROOF RIDGE
SHED = SHED
SSL = SEWER SURFACE LEVEL
STR = STAIRS
SVA = STOP VALVE
SWSL = STORMWATER SURFACE LEVEL
TAP = TAP
TB = TOP OF BANK
TD = TABLE DRAIN
TG = TOP OF GUTTER
TIL = TILE
TNK = TANK
TOP = TOP OF PIPE
TR = TREE
TW = TOP OF WALL
USL = UNKNOWN SERVICE SURFACE LEVEL
WM = WATER METER
WSL = WATER SURFACE LEVEL

TREE
SPREAD-DIAMETER-HEIGHT

LEGEND: (SEE NOTES 1)

— C — = COMMUNICATIONS LINES UNDERGROUND
— ELO — = ELECTRICITY LINES OVERHEAD
— ESL — = ELECTRICITY LINE UNDERGROUND
— NS — = NATURAL SURFACE
— S — = SEWER LINE UNDERGROUND
— SWSL — = STORMWATER LINE UNDERGROUND
— USL — = UNKNOWN LINE UNDERGROUND
— WSL — = WATER LINE UNDERGROUND

CODE	DEPTH	DIAMETER	PIPE
105.78	SSL	B	131
RL	LOCATION	QUALITY	NOTE

THIS SHEET IS TO BE READ IN CONJUNCTION WITH NOTES & LEGEND SEE SHEET 1

HORIZONTAL DATUM:
CO-ORDINATE SYSTEM: MGA
MARKS ADOPTED: SSM15698 AND PM32686

VERTICAL DATUM:
DATUM: AUSTRALIAN MEAN DATUM (AMD)
B.M. ADOPTED: SSM 15698
R.L. 73.52 (CLASS L.C.)
SOURCE: S.C.I.M.S. (11/03/2021)

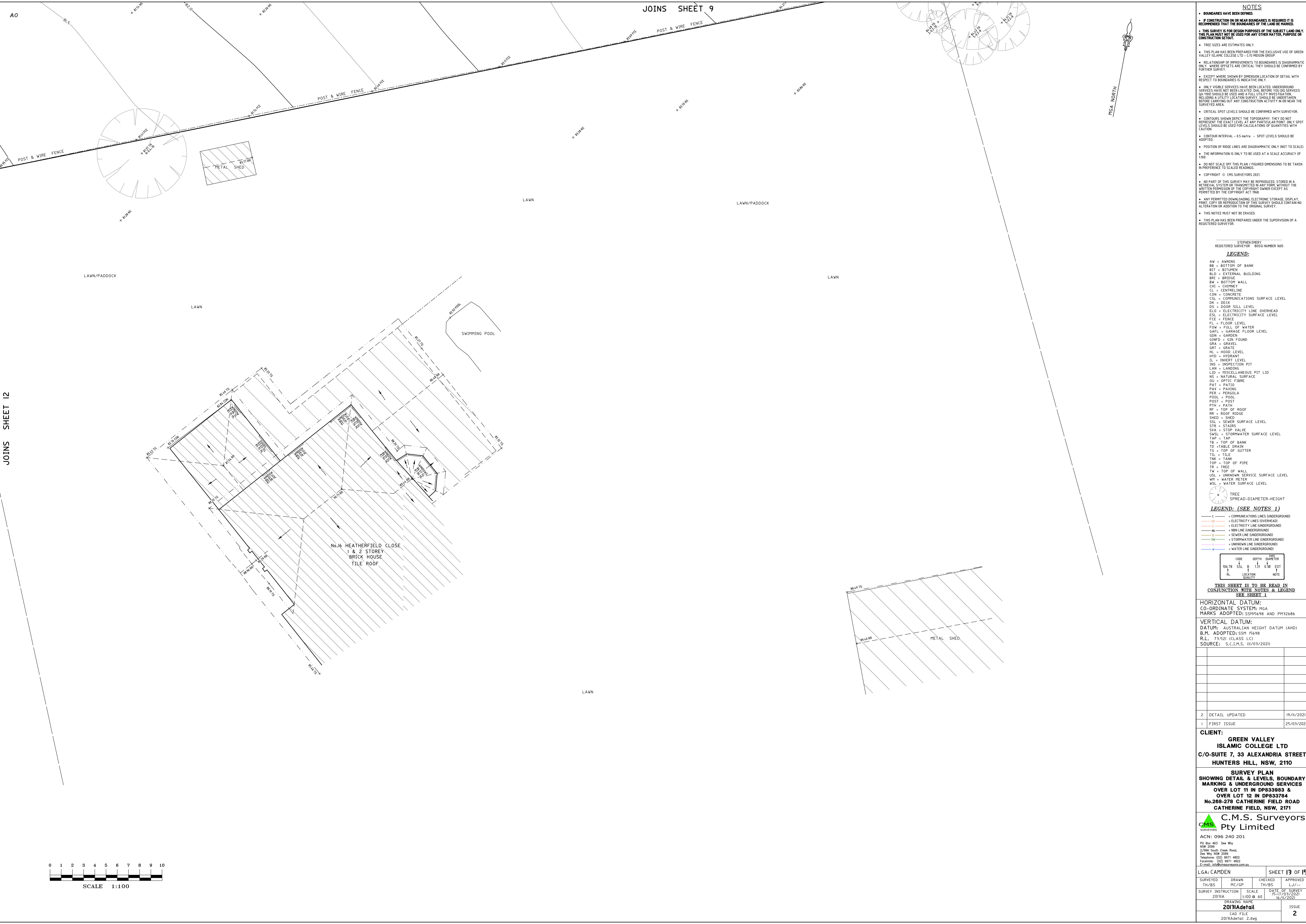
NO.	REVISION	DATE
2	DETAIL UPDATED	19/11/2021
1	FIRST ISSUE	25/03/2021

CLIENT:
GREEN VALLEY ISLAMIC COLLEGE LTD
C/O-SUITE 7, 33 ALEXANDRIA STREET
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SHOWING DETAIL & LEVELS, BOUNDARY MARKING & UNDERGROUND SERVICES
OVER LOT 11 IN DP833083 & OVER LOT 12 IN DP833784
No.268-278 CATHERINE FIELD ROAD
CATHERINE FIELD, NSW, 2171

C.M.S. Surveyors Pty Limited
ACN: 096 240 201
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NSW 2009
2/89A South Creek Road,
Dee Why NSW 2009
Telephone: (02) 9971 4802
Facsimile: (02) 9971 4822
E-mail: info@cmsurveyors.com.au

SURVEYED	DRAWN	CHECKED	APPROVED
TH/BS	MC/OP	TH/BS	LJ/--
SURVEY INSTRUCTION 2019A			DATE OF SURVEY 15-17/03/2021 LJGD B AD
DRAWING NAME 2019Adetail			ISSUE 2
CAD FILE 2019Adetail_2.dwg			



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STEPHEN ENERGY
REGISTERED SURVEYOR BOSSU NUMBER 1605

LEGEND:

AW = AWNING
BB = BOTTOM OF BANK
BIT = BITUMEN
BLD = EXTERNAL BUILDING
BRE = BRIDGE
BW = BOTTOM WALL
CHI = CHIMNEY
CL = CENTRELINE
CON = CONCRETE
CSL = COMMUNICATIONS SURFACE LEVEL
DK = DECK
DS = DOOR SILL LEVEL
ELO = ELECTRICITY LINE OVERHEAD
ESL = ELECTRICITY SURFACE LEVEL
FCE = FENCE
FL = FLOOR LEVEL
FW = FULL OF WATER
GARL = GARAGE FLOOR LEVEL
GDN = GARDEN
GND = GIN FOUND
GRA = GRAVEL
GRT = GRATE
HL = HOOD LEVEL
HYD = HYDRANT
IL = INVERT LEVEL
INS = INSPECTION PIT
LAN = LANDING
LID = MISCELLANEOUS PIT LID
NS = NATURAL SURFACE
OU = OPTIC FIBRE
PAT = PATIO
PAV = PAVING
PER = PERGOLA
POOL = POOL
POST = POST
PTH = PATH
RF = TOP OF ROOF
RR = ROOF RIDGE
SHED = SHED
SSL = SEWER SURFACE LEVEL
STR = STAIRS
SVA = STOP VALVE
SWSL = STORMWATER SURFACE LEVEL
TAP = TAP
TB = TOP OF BANK
TD = TABLE DRAIN
TG = TOP OF GUTTER
TIL = TILE
TNK = TANK
TOP = TOP OF PIPE
TR = TREE
TW = TOP OF WALL
USL = UNKNOWN SERVICE SURFACE LEVEL
WM = WATER METER
WSL = WATER SURFACE LEVEL

TREE
SPREAD-DIAMETER-HEIGHT

LEGEND: (SEE NOTES 1)

— = COMMUNICATIONS LINES (UNDERGROUND)
— = ELECTRICITY LINES (OVERHEAD)
— = ELECTRICITY LINE (UNDERGROUND)
— = NBN LINE (UNDERGROUND)
— = SEWER LINE (UNDERGROUND)
— = STORMWATER LINE (UNDERGROUND)
— = UNKNOWN LINE (UNDERGROUND)
— = WATER LINE (UNDERGROUND)

CODE	DEPTH	DIAMETER	PIPE
105.78	SSL	B	131
RL	LOCATION	QUALITY	NOTE

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STEPHEN ENERGY
REGISTERED SURVEYOR 2021 NUMBER 1605

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USL = UNKNOWN SERVICE SURFACE LEVEL
WM = WATER METER
WSL = WATER SURFACE LEVEL

TREE
SPREAD-DIAMETER-HEIGHT

LEGEND: (SEE NOTES 1)

— = COMMUNICATIONS LINES (UNDERGROUND)
— = ELECTRICITY LINES (OVERHEAD)
— = ELECTRICITY LINES (UNDERGROUND)
— = NBN LINE (UNDERGROUND)
— = SEWER LINE (UNDERGROUND)
— = STORMWATER LINE (UNDERGROUND)
— = UNKNOWN LINE (UNDERGROUND)
— = WATER LINE (UNDERGROUND)

CODE	DEPTH	DIAMETER	PIPE
105.78	SSL	B	131
RL	LOCATION	QUALITY	NOTE

THIS SHEET IS TO BE READ IN CONJUNCTION WITH NOTES & LEGEND SEE SHEET 1

HORIZONTAL DATUM:
CO-ORDINATE SYSTEM: MGA
MARKS ADOPTED: SSM15698 AND PM32686

VERTICAL DATUM:
DATUM: AUSTRALIAN HEIGHT DATUM (AHD)
B.M. ADOPTED: SSM 15698
R.L. 73.52 (CLASS L.C.)
SOURCE: S.C.I.M.S. (11/03/2021)

2	DETAIL UPDATED	19/11/2021
1	FIRST ISSUE	25/03/2021

CLIENT:
GREEN VALLEY ISLAMIC COLLEGE LTD
C/O-SUITE 7, 33 ALEXANDRIA STREET
HUNTERS HILL, NSW, 2110

SURVEY PLAN
SHOWING DETAIL & LEVELS, BOUNDARY MARKING & UNDERGROUND SERVICES OVER LOT 11 IN DP833983 & OVER LOT 12 IN DP833784
No.268-278 CATHERINE FIELD ROAD
CATHERINE FIELD, NSW, 2171

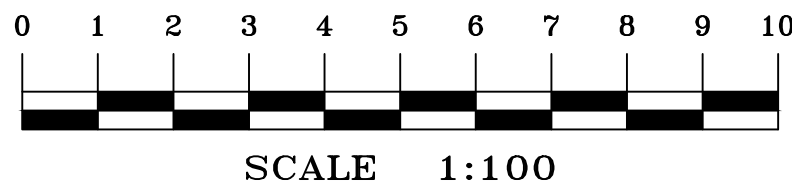
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Facsimile: (02) 9971 4822
E-mail: info@cmsurveyors.com.au

LGA: CAMDEN		SHEET 14 OF 15	
SURVEYED TH/BS	DRAWN MC/GP	CHECKED TH/BS	APPROVED LJ/-
SURVEY INSTRUCTION 2019A	SCALE 1:100 @ A0	DATE OF SURVEY 15-17/03/2021 16/11/2021	
DRAWING NAME 2019Adetail			ISSUE 2
CAD FILE 2019Adetail 2.dwg			

No. 265
157
D.P.27602

No. 257
156
D.P.27602

No. 251
155
D.P.27602



No. 293
161
D.P.27602

No. 285
160
D.P.27602

JOINS SHEET 2



NOTES

- BOUNDARIES HAVE BEEN DEFINED.
- IF CONSTRUCTION ON OR NEAR BOUNDARIES IS REQUIRED IT IS UNDERSTOOD THAT THE BOUNDARIES OF THE LAND ARE MARKED.
- THIS SURVEY IS FOR DESIGN PURPOSES OF THE SUBJECT LAND. THIS PLAN MUST NOT BE USED FOR ANY OTHER MATTER, PURPOSE OR FUNCTION DETO.
- TREE SIZES ARE ESTIMATES ONLY.
- THIS PLAN HAS BEEN PREPARED FOR THE EXCLUSIVE USE OF VALLEY SILVER COLLEGE LTD. - C/MISS GRINDON.
- RELATIONSHIP OF PROPOSED TO BOUNDARIES IS DIAGRAMMATICALLY REPRESENTED. DISCREPANCIES, THEREFORE, SHOULD BE CORRECTED BY SURVEY.
- EXCEPT WHERE SHOWN BY DISCREPANCIAL DETAIL, WITH PERMISSION OF THE SURVEYOR, THE FOLLOWING APPLIES:
 - ONLY VISIBLE SURVEY STATIONS HAVE BEEN LOCATED. INTERFERING OBSTACLES SUCH AS TREES, BUILDINGS, POWER LINES, SERVICES OR 100' SHADOWS MUST BE USED AND A FULL UTILITY INVESTIGATION CONDUCTED PRIOR TO CONSTRUCTION OF ANY STRUCTURE OR BEFORE CARRYING OUT ANY CONSTRUCTION WORK ON OR NEAR THE SURVEYED AREA.
 - ONLY LEVEL POINTS SHOULD BE CONFIRMED WITH SURVEYING.
 - CONTIGUOUS SHOWN DETO TOPOGRAPHY. THEY DO NOT REPRESENT THE EXACT LEVEL, AT ANY PARTICULAR POINT. ONLY SPOT LEVELS ARE TO BE USED FOR CALCULATIONS OF QUANTITIES WITH CAUTION.
 - CONTOUR INTERVAL = 0.5 metre. - SPOT LEVELS SHOULD BE NOTED.
 - POSITION OF RED LINES ARE DIAGRAMMATIC ONLY. NOT TO SCALE.
 - THE INFORMATION ONLY IS TO BE USED AT A SCALE ACCURACY OF 1:100.
 - NOT TO SCALE OF THIS PLAN, FIGURED DIMENSIONS ARE TO BE TAKEN FROM THE SURVEYOR'S FIELD BOOK.
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- ANY PERMITTED DOWNLOADING, ELECTRONIC STORAGE, DISPLAY OR TRANSMISSION OF THIS SURVEY MUST NOT CONTAIN OR ALTERATION IN ADDITION TO THE ORIGINAL SURVEY.
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STEPHEN EMERY
REGISTERED SURVEYOR BOSSI NUMBER 1605

LEGEND:

AB = AWNING
 BB = BOTTOM OF BANK
 BT = BUTTEND
 BU = EXTERNAL BUILDING
 BU = BRIDGE
 BW = BOTTOM WALL
 CW = CHIMNEY
 CL = CENTRELINE
 CON = CONCRETE
 CSU = COMMUNICATIONS SERVICE LEVEL
 DE = DECK
 ELO = EXCEED STILL LEVEL
 ELO = ELECTRICITY LINE OVERSHOOT
 EL = ELECTRICITY SERVICE LEVEL
 FL = FLOOR LEVEL
 FM = FILL OF WATER
 GARF = GARAGE FLOOR LEVEL
 GIN = GARAGE
 GIN = GIN FOUND
 GON = GARAGE
 GRT = GRATE
 HL = HOOD LEVEL
 HD = HYDRANT
 IL = INVERT LEVEL
 IS = INSULATION PIT
 LAN = LANDING
 LID = MISCELLANEOUS LID
 LID = MISCELLANEOUS PIT
 NAT = NATIO
 PAV = PAVING
 PER = PERGOLA
 POOL = POOL
 POST = POST
 PTH = PATH
 RF = TOP OF ROOF
 RO = ROOF RIDGE
 SHED = SHED SERVICE LEVEL
 STR = STAIRS
 SWA = STOP VALVE
 SWA = STOPWATER SERVICE LEVEL
 TAP = TAP
 TBL = TOP OF BANK
 TD = TABLE DRAIN
 TIL = TOP OF GUTTER
 TIL = TILE
 TPK = TANK
 TUP = TOP OF PIPE
 TR = TREE
 TW = TOP OF WALL
 USL = UNKNOWN SERVICE LEVEL
 WSL = WATER METER
 WSL = WATER SERVICE LEVEL



SPREAD-DIAMETER-HEIGHT

LEGEND: (SEE NOTES 1)

- C — = COMMUNICATIONS LINES (UNDERGROUND)
 — EO — = ELECTRICITY LINES (OVERHEAD)
 — E — = ELECTRICITY LINE (UNDERGROUND)
 — Nb — = NBN LINE (UNDERGROUND)
 — S — = SEWER LINE (UNDERGROUND)
 — SW — = STORMWATER LINE (UNDERGROUND)
 — U — = UNKNOWN LINE (UNDERGROUND)
 — W — = WATER LINE (UNDERGROUND)

```

      CODE      DEPTH      PIPE DIAMETER
      ↓         ↓         ↓
106.78  SSL      B      1.31      0.10      EOT
  ↑         ↑         ↑
  RL      LOCATION    NOTE
         QUALITY

```

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SEE SHEET 1

HORIZONTAL DATUM:
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MARKING & UNDERGROUND SERVICES
OVER LOT 11 IN DP833983 &
OVER LOT 12 IN DP833784
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LGA: CAMDEN	SHEET 15 OF 15
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SURVEYED TH/BS	DRAWN MC/GP	CHECKED TH/BS	APPROVED LJ/--
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DRAWING NAME 2013IAdetail			ISSUE 2
CAD FILE 2013IAdetail 2.dwg			

7 **Attachment B: Proposed Site Layout**



DATE	REV	DESCRIPTION
31.03.22	A	ISSUE FOR SSDA

NOTES:
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PROJECT:
MINARAH COLLEGE
268-278 CATHERINE FIELDS RD
CATHERINE FIELD

ARCHITECT
TONKIN ZULAIKHA GREER ARCHITECTS
117 Reservoir Street
ABN: 46002722349
P: (02) 9215 4900
F: (02) 9215 4901
EMAIL info@tzg.com.au
WEB www.tzg.com.au

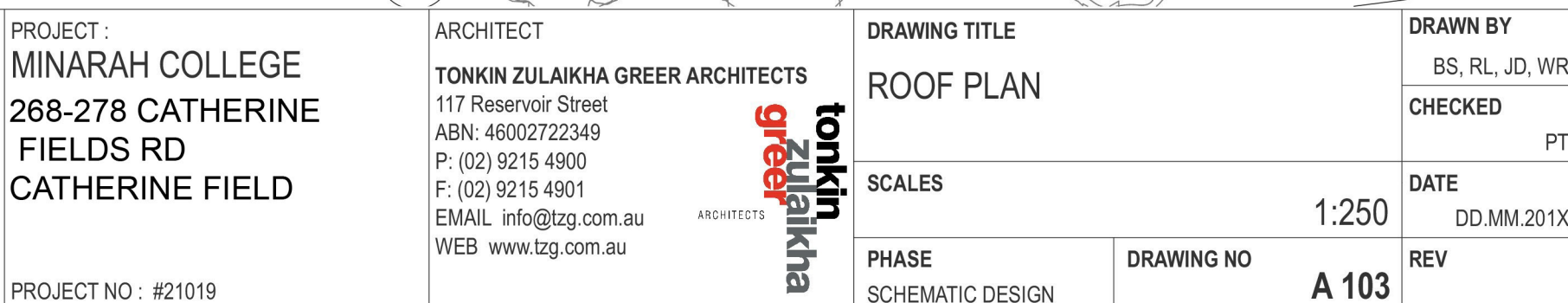
DRAWING TITLE	
SITE PLAN GROUND	
SCALES	
PHASE	DRAWING NO
Schematic Design	A 005

DRAWN BY	
BS, RL, JD, WR	CHECKED
PT	DATE
DD.MM.201X	REV

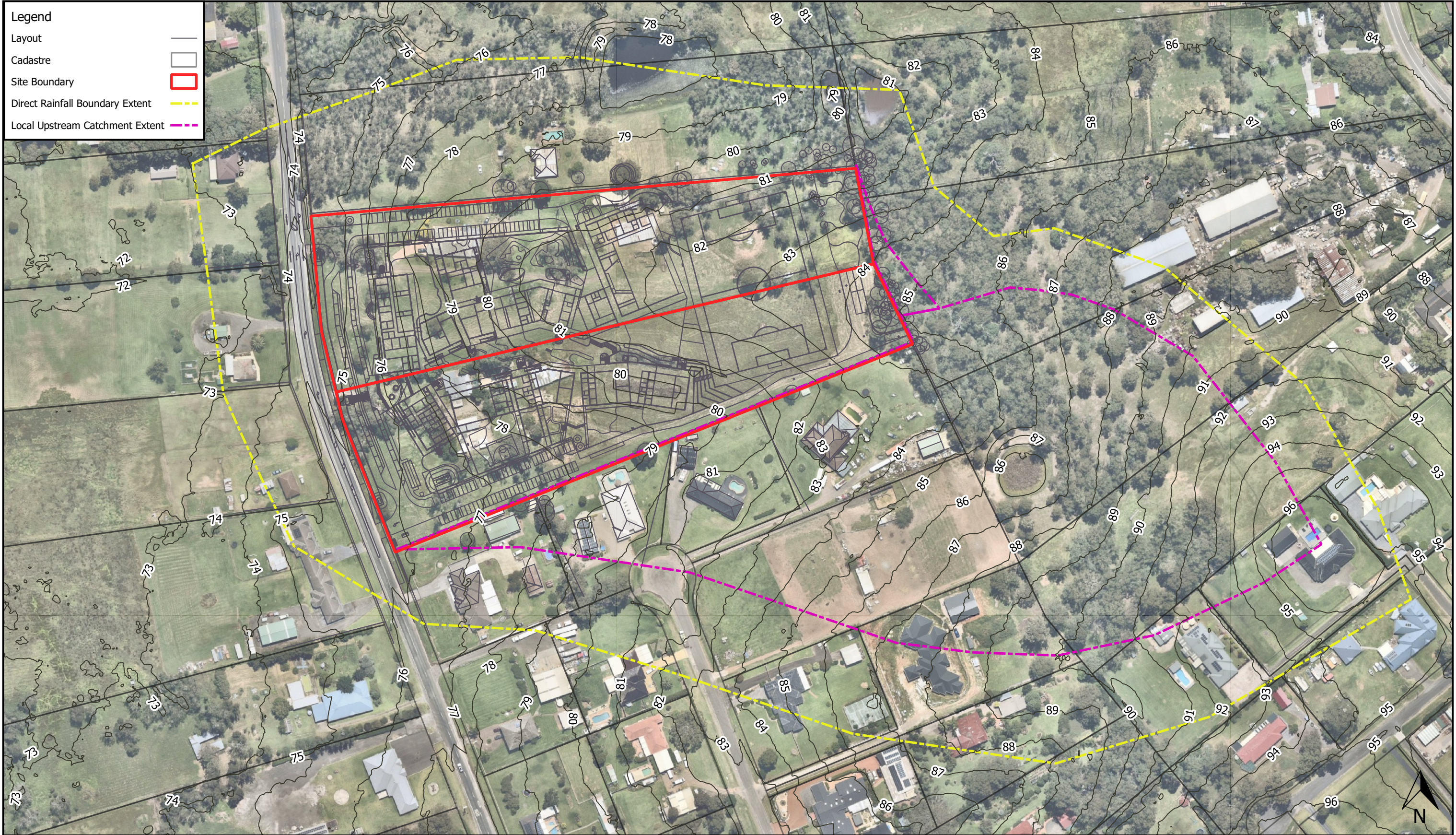


DATE	REV	DESCRIPTION	NOTES:
31.03.22	A	ISSUE FOR SSDA	Do not scale off drawings. Use figured dimensions only. Report any discrepancies to the architect. These designs, plans, specifications and the copyright therein are the property of Tonkin Zulaikha Greer Architects Pty Ltd, and must not be reproduced or copied wholly or in part without written permission of Tonkin Zulaikha Greer Architects Pty Ltd.

PROJECT : MINARAH COLLEGE		ARCHITECT TONKIN ZULAIKHA GREER ARCHITECTS 117 Reservoir Street ABN: 46002722349 P: (02) 9215 4900 F: (02) 9215 4901 EMAIL info@tzig.com.au WEB www.tzig.com.au		DRAWING TITLE ROOF PLAN		DRAWN BY BS, RL, JD, WR	
PROJECT NO : #21019		tonkin zulaikha greer architects		SCALES		CHECKED PT	
PHASE SCHEMATIC DESIGN		DRAWING NO A 103		1:250		DATE DD.MM.201X	
						REV	



8 Attachment C: Preliminary Overland Flow Assessment Mapset



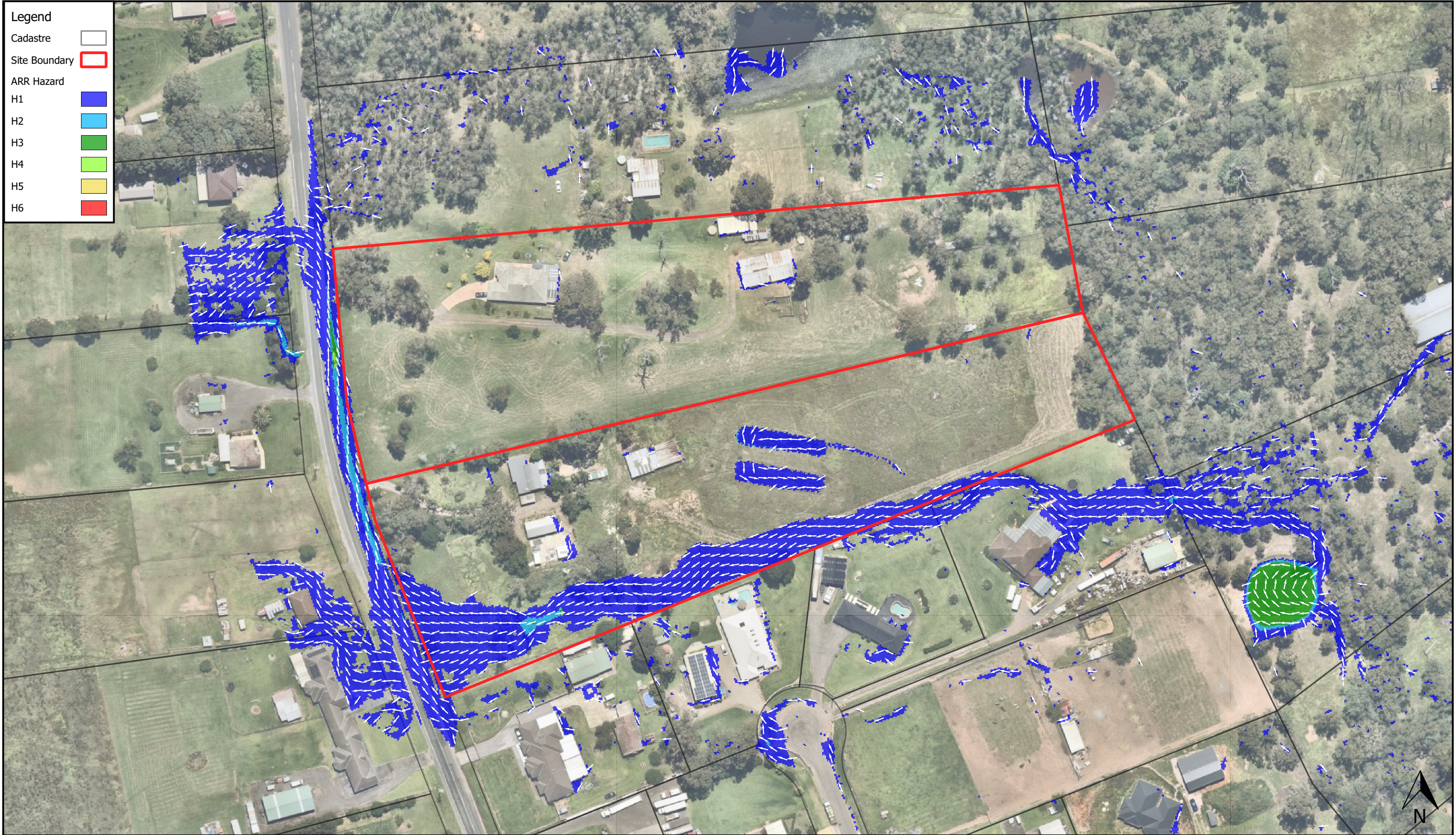
0 20 40 60 80 100 m

1:2000 @ A3

Map Title / Figure:

Direct Rainfall Boundary Extent







Legend

Layout

Cadastral

Site Boundary

Water Level (mAHD)

Water Depth

<= 0.1

0.1 - 0.2

0.2 - 0.3

0.3 - 0.4

0.4 - 0.5

0.5 - 0.6

0.6 - 0.7

0.7 - 0.8

0.8 - 0.9

> 0.9

0 10 20 30 40 50 m

1:1500 @ A3

1% AEP Critical Storm Duration
Proposed Condition Water Level (mAHD) & Water Depth

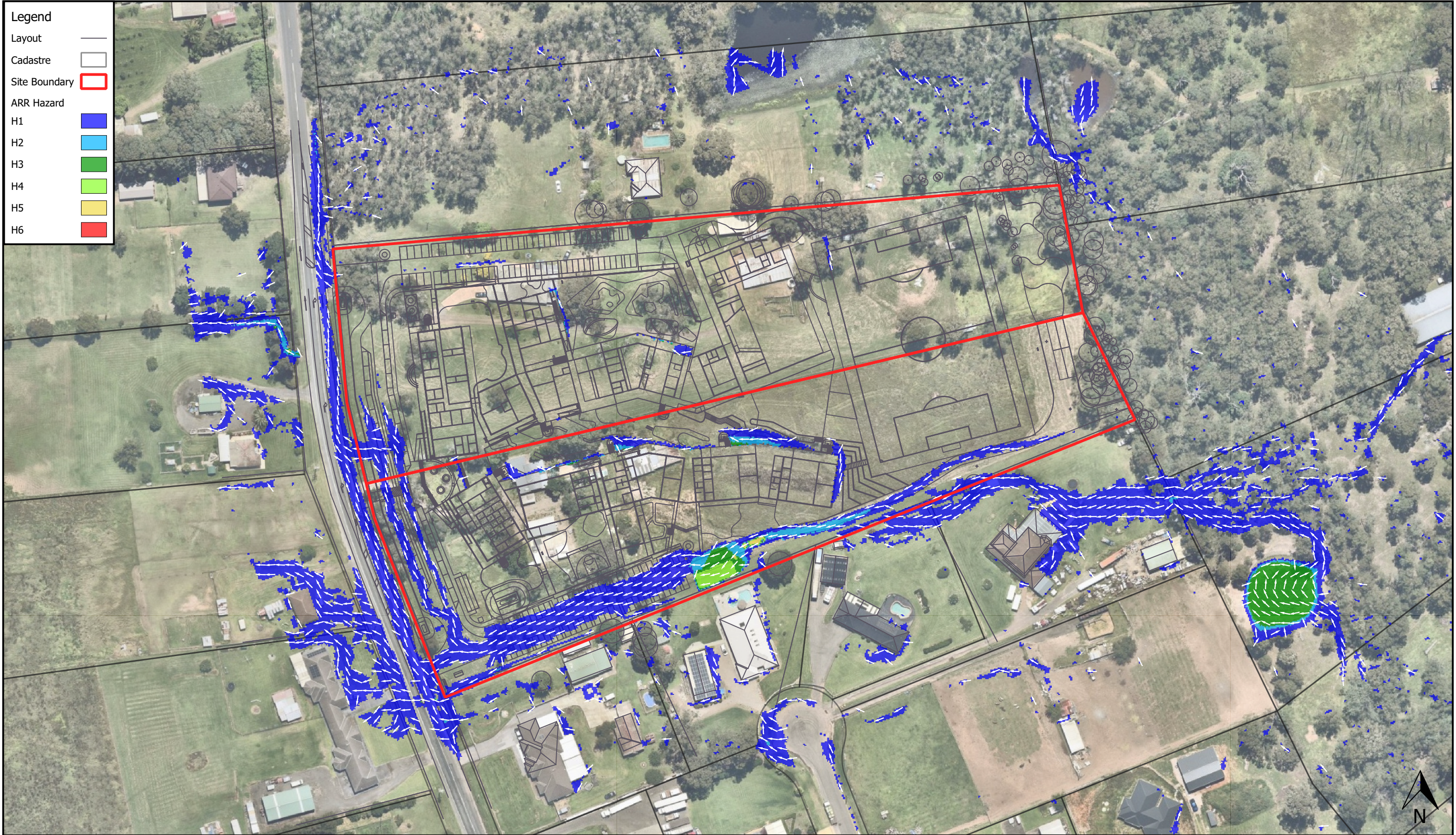


0 10 20 30 40 50 m

1:1500 @ A3

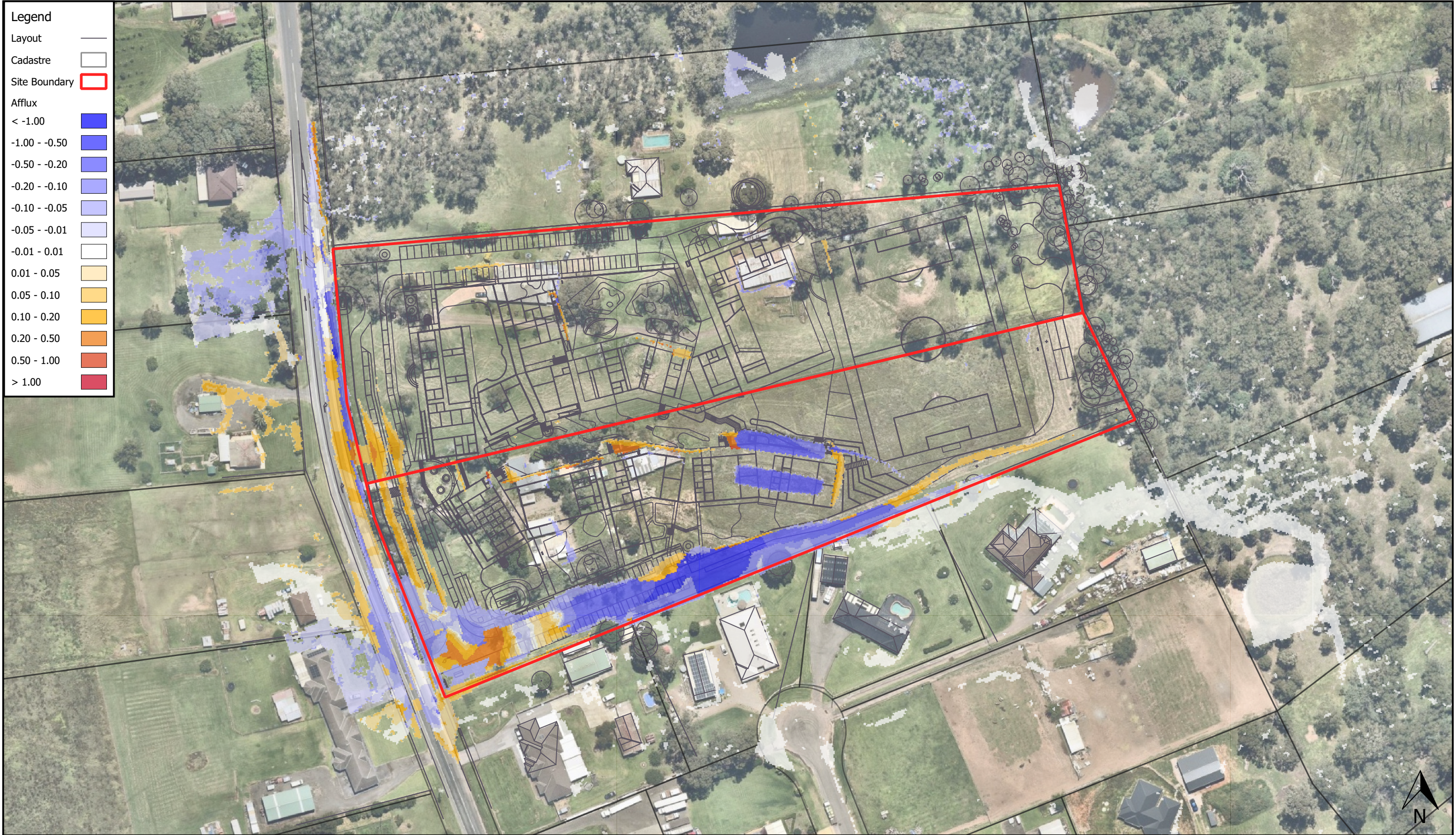
Map Title / Figure:

1% AEP Critical Storm Duration
Proposed Condition Water Velocity (m/s)



0 10 20 30 40 50 m
1:1500 @ A3

Map Title / Figure:
**1% AEP Critical Storm Duration
Proposed Condition Provisional ARR Flood Hazard Categories**



0 10 20 30 40 50 m
1:1500 @ A3

Map Title / Figure:
**1% AEP Afflux
(To Approved Surface)**