

Surveying Consulting Services

Part 1 – Desktop Analysis Review for Milton Primary School

Prepared for: (Commercial in Confidence)





Project Name	SINSW Due Diligence – Milton PS	
Report Title	Survey Report	
File Name	Land Survey DD – Milton – 2565 - Astrea – DDW005391/23	

School Name	Milton Public School	Consultancy Name	Astrea Pty Ltd
School ID Number	2565	Report Status	Final
School Address	9 Thomas Street, Milton.	Report Date:	30.10.2023
School Region	Southern NSW	Contract Number:	DDW005391/23

Report Information

Author	Scott Deveridge	
Company Name	Astrea Pty Ltd	
Contact Details	s.deveridge@astrea.com.au Mobile: 0425 285 270	
Report Version	A	
Report Date	30.10.2023	
Project Reference	A4065-Milton	

Document History

Issue Date	Status	Comment/Description	Author	Reviewer	Approved
30.10.2023	Draft	Initial Issue	Scott Deveridge	Edyta Krynicka	Shift
14.12.2023	Final	Final Issue	Scott Deveridge	Edyta Krynicka	Duff

Acronyms and Definitions

Acronym	Definition	
AHD	Australian Height Datum	
MGA	Map Grid of Australia	
BYDA	Before You Dig Australia	
AS5488	Australian Standard for Classification of Subsurface Utility Information	
PM	Permanent Mark	
SSM	State Survey Mark	

Table of Contents

1	EXE	CUTIVE SUMMARY	4
2	INT	RODUCTION AND BACKGROUND	5
	2.1	Limitations	5
3	LAN	D SURVEY DESTOP ANALYSIS REVIEW	6
	3.1	Site Information	6
	3.2	Survey Search Results	6
	3.3	Cadastral Map Search results	10
	3.4	Topographic Survey Information results	11
	3.5	BYDA Search and Underground Service Detection results	12
4	REC	OMMENDATION AND CONCLUSION	20
Α	PPEND	IX A – CADASTRAL SEARCH DOCUMENTS	21
Α	PPEND	IX B – BYDA SEARCH DOCUMENTS	38
Α	PPEND	IX C – SHEETED DETAIL SITE SURVEY	54
Δ	PPFND	IX D = UNDERGROUND SERVICE LOCATORS FIELD REPORT	60

1 EXECUTIVE SUMMARY

Astrea was engaged to assist with the due diligence assessment of Milton Primary School. The scope of work included a desktop study, topographical survey and underground services survey.

We have collected, reviewed, and analysed all existing available site information. Land title information, survey control, and underground services have all been thoroughly searched from public records.

All information recovered has been summarised in this report and also provided within a dropbox folder. This folder also contains photographs taken on site. Appendix A of this report contains a summary of the cadastral land search.

A site detailed survey was undertaken in accordance with the scope of works contained in Part 2 of the Surveying Consulting Services brief version 1.5. The results of this survey have been summarised in this report and also in full in Appendix C and within a dropbox folder as Autocad dwg file and sheeted pdf.

The existing land, Lot 1 in DP 861814, is affected by an easement for padmount substation, an easement for underground cables, and associated restriction on use of land as shown on the survey plans. It is also subject to Reservations and conditions contained in the crown grant. The land benefits from an easement to drain water on the residential land to the east. The area of the existing site is 4.042 Ha.

As part of the topographical survey scope we search public utilities through a BYDA search. The results of that search have been summarised in Appendix B of this report.

Astrea has also undertaken subsurface utility investigations using non-invasive electromagnetic trace equipment at the proposed school site and surrounds. These services have been marked in field and subsequently surveyed to provide a utilities plan to aid in future planning and development.

The majority of utilities have been traced to QL-B specification – These traced utilities makeup the main services routes that show incoming water, electrical, gas and communication feeds to and from each building. The outgoing sewer and stormwater network has been investigated at pit interfaces and joined into the network where evidence exists.

2 INTRODUCTION AND BACKGROUND

Milton Public School:



As instructed, we have completed a desktop analysis review, detailed site survey, and underground service detection and survey in accordance with Contract ID DDWO05391/23. We understand the purpose of the survey is to assist with the due diligence around future replacement of demountables with permanent classrooms.

The scope of work is compliant with the Surveying Consulting Services, version 1.5, dated 21.03.2022, as provided with the request for tender. Part 1 – Desktop Analysis Review and Part 2 – Detailed Site Survey formed part of this work.

There were no other site documents provided to us.

We searched and ordered public records for land title and cadastral records, permanent survey control, and BYDA records for underground services.

The survey was undertaken during September 2023.

2.1 Limitations

We have made every effort to collect, review and analyse all existing available site information and documentation. Within the detailed survey scope we have also made every effort to find visible services on the site and correlate with public utility records.

Some tracing/equipment limitations have been encountered within this investigation. These limitations include sewer lines that require specialised tracing equipment to determine lines/networks.

Astrea has tabled the significant information gaps within the report and recommends actions should the information be required for planning/design. These include - revisiting sections on completion of building works, CCTV pipe inspection and Non-Destructive Digging.

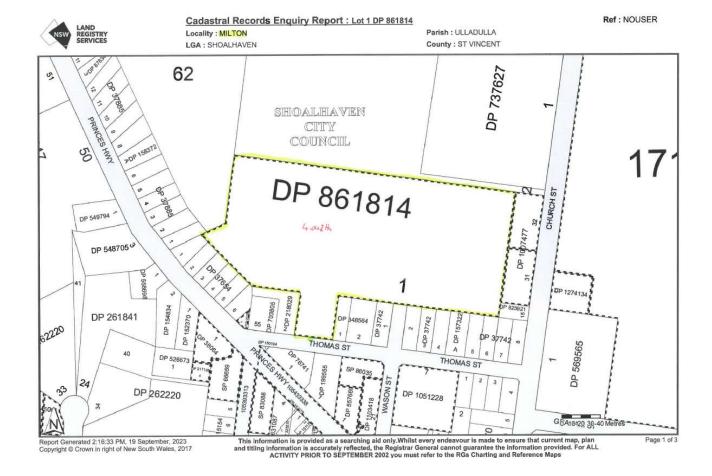
3 LAND SURVEY DESTOP ANALYSIS REVIEW

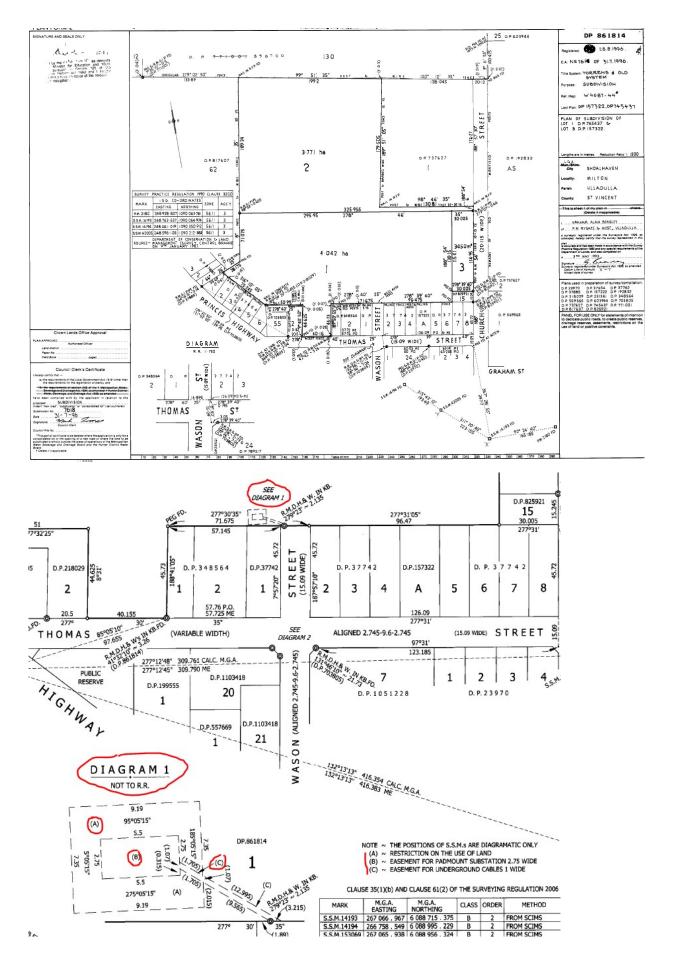
3.1 Site Information

Milton Primary School is located at 9 Thomas Street, Milton. This is situated in the Local Government Area of Shoalhaven, Parish of Ulladulla, and County of St Vincent. The site is 4.042 ha in size and consists of land in certificate of title 1/861814.

3.2 Survey Search Results

A cadastral records enquiry was undertaken and confirmed, for the address of 9 Thomas Street, Milton. The land is bound by Thomas Street, Wason Street and residential land to the south, council owned land to the north, and privately owned residential land to the east and west. The main vehicular access point is off Wason Street. The land holding is contained within certificate of title 1/861814 in the ownership of the Minister for Education and Training. The CRE report and subject plan are shown below. The following page illustrates the title diagram (DP861814) and the plan creating the affecting easements. Full Cadastral search is contained in Appendix A.







Title Search

Information Provided Through

Aussearch Ph. 02 9054 6867 Fax.

NEW SOUTH WALES LAND REGISTRY SERVICES - TITLE SEARCH

FOLIO: 1/861814

SEARCH DATE	TIME	EDITION NO	DATE

19/9/2023	2:18 PM	2	8/12/2007

LAND

LOT 1 IN DEPOSITED PLAN 861814

AT MILTON

LOCAL GOVERNMENT AREA SHOALHAVEN

PARISH OF ULLADULLA COUNTY OF ST VINCENT

TITLE DIAGRAM DP861814

FIRST SCHEDULE

MINISTER FOR EDUCATION AND TRAINING

(CA58890)

SECOND SCHEDULE (5 NOTIFICATIONS)

- 1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
- 2 DP1007477 EASEMENT TO DRAIN WATER 1 METRE(S) WIDE APPURTENANT TO THE LAND ABOVE DESCRIBED
- 3 DP1120833 RESTRICTION(S) ON THE USE OF LAND
- 4 DP1120833 EASEMENT FOR PADMOUNT SUBSTATION 2.75 METRE(S) WIDE AFFECTING THE PART(S) SHOWN SO BURDENED IN DP1120833
- 5 DP1120833 EASEMENT FOR UNDERGROUND CABLES 1 METRE(S) WIDE AFFECTING THE PART(S) SHOWN SO BURDENED IN DP1120833

NOTATIONS

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

The existing land, Lot 1 in DP 861814, is affected by an easement for padmount substation, an easement for underground cables, and associated restriction on use of land as shown on the survey plans. It is also subject to Reservations and conditions contained in the crown grant. The land benefits from an easement to drain water on the residential land to the east. The area of the existing site is 4.042 Ha.

These easements are shown on the site detailed survey and highlighted on the cadastral map in this report.

Scims records were searched and the permanent survey control marks adopted for the survey are shown below. Australian Height Datum and MGA 2020 has been adopted as the coordinate system for the survey.





SCIMS SURVEY MARK REPORT AS AT: 22-SEP-2023

Your Reference: milton Search Number: 1102352

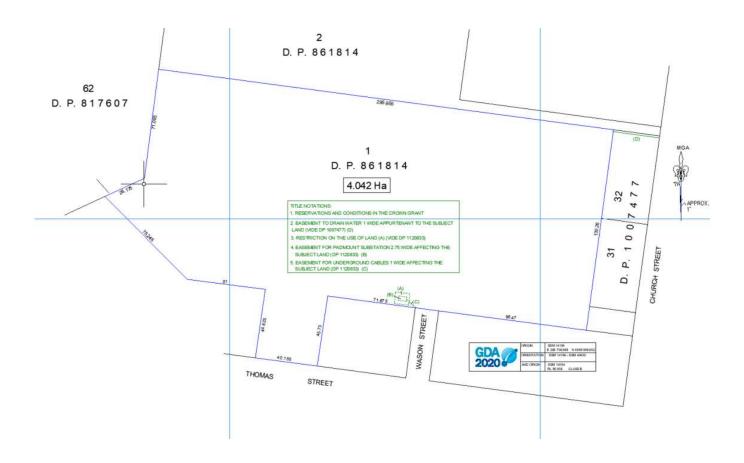
MARK NAME STATUS	COORDINA	ATES AND HEIGHTS	18	CLASS	PU	LU	SOURCE	CSF CONVERGENCE AUSGEOID2020
SS 14194		Horizontal coord	dinates ar	e adjusted	(or initial	ised) in GE	A2020	
	MGA2020	266758.988 6088996.652	56	В	0.03	0.03	301189	1.000255
	GDA2020	-35° 18' 54.23221" 150°	26' 03.8	1558"				-1° 29' 01.59"
	GDA2020	Ellipsoidal Height	99.1	E	0.18		300777	
	AHD71	Normal-Orthometric	80.856	LB	0.03	0.01	300202	18.227
SS 40435		Horizontal coord	dinates an	e adjusted	(or initial	ised) in GE	A2020	
	MGA2020	266631.216 6089160.991	56	В	0.03	0.03	301189	1.000256
	GDA2020	-35° 18' 48.79560" 150°	25' 58.9	2892"				-1° 29' 04.22"
	GDA2020	Ellipsoidal Height	96.4	E	0.18		300777	
	AHD71	Normal-Orthometric	78.172	LB	0.03	0.01	300202	18.240

3.3 Cadastral Map Search results

The site boundaries have been defined utilising reference marks found on the original plan of subdivision and more recent plans of survey surrounding the site. We are confident that title dimensions shown are available and the boundary location is suitable for this due diligence exercise. Our estimate on the overall accuracy of the resulting boundaries is +/- 50mm.

The land has frontage to Thomas Street and Wason Street. The main vehicular access is from Wason Street.

The existing land, Lot 1 in DP 861814, is affected by an easement for padmount substation, an easement for underground cables, and associated restriction on use of land as shown on the survey plans. It is also subject to Reservations and conditions contained in the crown grant. The land benefits from an easement to drain water on the residential land to the east. The area of the existing site is 4.042 Ha.



3.4 Topographic Survey Information results

Our approach was to collect as much data as thoroughly and quickly as possible to cause as little disruption to the school and also ensure a revisit would not be required. We utilised laser scanning for both the site and street frontage detail. Traditional surveying was done in tandom to pick up some tricky areas of terrain, service covers, painted underground services, and establish site control and the boundary survey.

Survey Control:

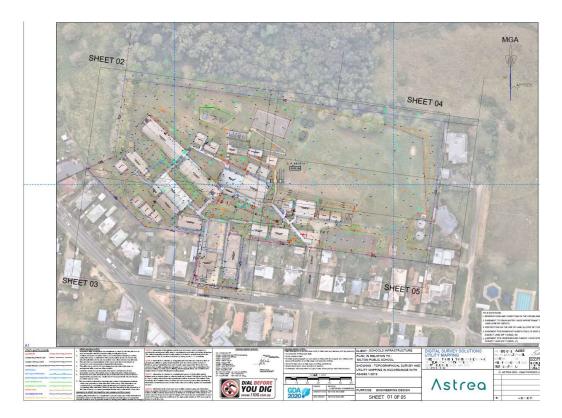
The survey control for this project was undertaken using a Leica TS16. A series of closed traverse loops were established throughout the school site as well as around the surrounding streets. State survey marks were located as part of this work. The survey has been placed on the MGA 2020 coordinate system and Australian Height Datum. The origin of marks adopted are shown on the previous page and the face of all plans. It is the responsibility of any user of this data to ensure any other data being integrated is on the same coordinate system.

Point Cloud Data:

As with the survey control the laser scanning of the site utilised a series of closed loops around the site buildings within the school grounds as well as a closed loop around the street frontages and perimeter of school. This ensured adequate coverage and overlap of data which is critical to an accurate registration of the overall point cloud. Furthermore, laser scan targets were placed across the site and at the street frontages. These were both acquired by the laser scanner and surveyed traditionally to gain accurate 3D coordinates for use in the final registration. Assessment of the final registration report confirmed to us that the final point cloud data sits within the stated accuracy below.

Survey Control: +/- 5mm. Registered Point Cloud Data: +/- 10-15mm Extracted and Modelled Data: +/- 15-20mm Site Boundaries: +/- 50mm

The site and street frontages have been presented in 5 sheets on our final survey drawing. The first sheet being the overall site at a scale of 1:600 and the last 4 sheets at a scale of 1:200 dividing the site as shown on sheet 1 below. The full survey is contained in Appendix C.



3.5 BYDA Search and Underground Service Detection Results

As part of the topographical survey scope we search public utilities through a BYDA search.



Job No 34866501

Phone: 1100 www.byda.com.au

Caller Details

Contact: Astrea Locator Caller Id: 3005839 Phone: 0476 003 705

Company: Astrea

Address: 32 Delhi Rd

Macquarie Park NSW 2113 Email: dbyd@astrea.com.au

Dig Site and Enquiry Details

WARNING: The map below only displays the location of the proposed dig site and does not display any asset owners' pipe or cables. The area highlighted has been used only to identify the participating asset owners, who will send information to you directly.



User Reference: Milton PS
Working on Behalf of: Private

Enquiry Date: Start Date: End Date: 18/08/2023 21/08/2023 21/09/2023

Address:

9 Thomas Street Milton NSW 2538

Job Purpose: Onsite Activities:

Excavation Manual Excavation, Mechanical Excavation,

Non-Destructive Digging

Location of Workplace: Location in Road:

Both Footpath, Nature Strip, Road

- Check that the location of the dig site is correct. If not you must submit a new enquiry.
- Should the scope of works change, or plan validity dates expire, you must submit a new enquiry.
- Do NOT dig without plans. Safe excavation is your responsibility. If you do not understand
 the plans or how to proceed safely, please contact the relevant asset owners.

Notes/Description of Works:

Not supplied

Your Responsibilities and Duty of Care

- The lodgement of an enquiry does not authorise the project to commence. You must obtain all necessary information from any and all likely impacted asset owners prior to excavation.
- . If plans are not received within 2 working days, contact the asset owners directly & quote their Sequence No.
- ALWAYS perform an onsite inspection for the presence of assets. Should you require an onsite location, contact the asset owners directly. Please remember, plans do not detail the exact location of assets.
- · Pothole to establish the exact location of all underground assets using a hand shovel, before using heavy machinery.
- Ensure you adhere to any State legislative requirements regarding Duty of Care and safe digging requirements.
- . If you damage an underground asset you MUST advise the asset owner immediately.
- By using this service, you agree to Privacy Policy and the terms and disclaimers set out at www.byda.com.au
- For more information on safe excavation practices, visit www.byda.com.au

Asset Owner Details

The assets owners listed below have been requested to contact you with information about their asset locations within 2 working days.

Additional time should be allowed for information issued by post. It is your responsibility to identify the presence of any underground assets in and around your proposed dig site. Please be aware, that not all asset owners are registered with the Before You Dig service, so it is your responsibility to identify and contact any asset owners not listed here directly.

** Asset owners highlighted by asterisks ** require that you visit their offices to collect plans.

Asset owners highlighted with a hash # require that you call them to discuss your enquiry or to obtain plans.

Seq. No.	Authority Name	Phone	Status
228546319	Endeavour Energy	(02) 9853 4161	NOTIFIED
228546318	NBN Co NswAct	1800 687 626	NOTIFIED
228546317	Shoalhaven Water	(02) 4429 3214	NOTIFIED
228546320	Telstra NSW South	1800 653 935	NOTIFIED

OND OF LIBERTIES LIST

A combined BYDA report is contained in Appendix B.

Table 1 – AS5488-2019 summary of Quality Levels				
Quality Level D	 - (least accurate level and if used on its own has a high risk of damage) QL-D information is generally obtained from existing records provided by utilities as a result of a Before You Dig enquiry being lodged. In many cases the asset depicted on the plan is in a schematic format only and intended only to indicate its presence. 			
Quality Level C	 - (low accuracy and a high risk of damage) Is described as a surface feature correlation or an interpretation of the approximate location and attributes of a subsurface utility asset using a combination of existing records and site survey of visible evidence – for example you can see the pit lids shown on the plan but the actual position of underground connection between pits is still assumed. 			
Quality Level B	- (significant risk reduction) Provides relative subsurface feature locations in three dimensions. The minimum requirement for QL-B is relative spatial position, this can be achieved via an electromagnetic frequency locating device. An electronic location provided by a DBYD Certified Locator to QL-B standard would have a maximum horizontal tolerance of plus or minus 300mm and a maximum vertical tolerance of plus or minus 500mm.			
Quality Level A	- (meets location accuracy standards for minimum risk when excavating) Is the highest Quality Level accuracy and consists of positive identification of the attribute and location of a subsurface utility at a point to an absolute spatial position in three dimensions. It is the only quality level that defines a subsurface utility as 'Validated'.			

Equipment and Methodology.

Astrea DBYD accredited technicians were deployed to the school to investigate subsurface utilities pursuant with AS5488 – 2019 specification.

Field technicians have located subsurface utilities using various techniques. These can be classified into their appropriate levels (see below) depending on the method used to identify each service. (AS5488-2019: Summary of quality levels is depicted below in (table 1).

BYD (Before You Dig) and existing site records were first reviewed to gain an understating of the infrastructure that may be present within the school. The information on record was however minimal and thus in field investigations were used as the primary method for data collection. It is important to note the class assigned to each of subsurface utility asset as this helps to define the accuracies and confidence levels attributed to various parts of the utilities network.

Primary equipment used in the investigations consisted of the Radio Detection Electromagnetic transmitter/receiver TX10 and 8200 devices in conjunction with Mala Easy Locator Pro – Ground Penetrating Units.

Method of Investigation:

Water - Revision of Sydney Water BYD plans – information of street frontages only, no information of internal network is on record.

Water services were investigated first by visual surface features and connection to physical points via electronic tracing.

The water can be separated into two systems- Domestic potable and fire services. Where conductive pipes are used in the system then these assets will be located to QL-B specification using EM methods.

Electrical – Revision of Ausgrid electrical plans. – information on street frontages to substation only.

Electrical lines area generally conductive and traced via means of EM induction. Physical features such as light poles have been connected to and traced via EM. Where electrical pits are present onsite then cables have been traced via EM induction clamping.

Communication – Revision of Telstra, NBN and Optus plans – Limited internal information. Communication network is generally investigated via accessing of service pits via EM induction clam method. Where services are nonconductive then conduits have been traced via inserting conductive traces rods into the conduits with subsequent EM trace.

Sewer - Sydney Water BYD plans – information on street frontages only, internal information is limited. Existing as built plans available that show the main network existing within the school grounds.

The sewer network is investigated at the pit interface where the depth, size direction and material of pipes are measured to quality level A specification. These measurements are review against the BYD and as-built information whereby connection between manholes points can be established.

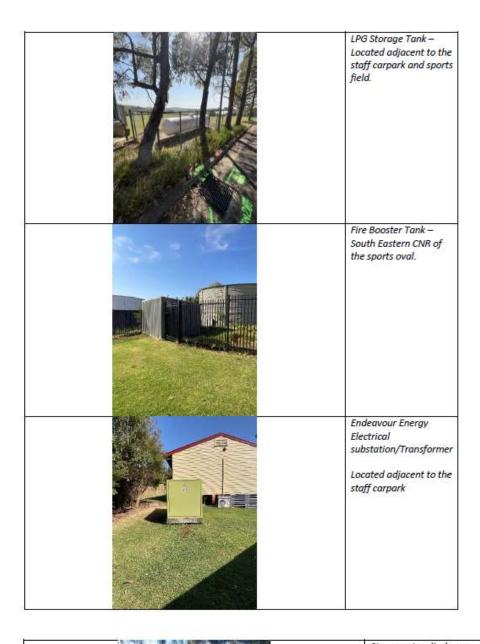
Stormwater – No stormwater BYD were available. No as built available.

Stormwater pits were investigated at the pit interface where depth, size direction and pipe material were recorded to quality level A. Pits were joined in the network via sonic testing. Where this was not possible then a conductive trace rod and sonde was inserted and subsequently traced via EM.

Unknown Pipes – A variety of random scans are carried out of the duration of the works. This is achieved by using both EM and GRR to scan areas to identify anomalies that present in linear arrangements. Once anomalies are identified via these methods technicians attempt to traditional trace and identify source points. When these features cannot be identified then they are marked as unknow pipe on the plan.

Key Utility Infrastructure Features:

Asset:	Description
	Sewer Discharge Pit- Located on the main sports oval
	Water Meter/ Fire Hydrant Booster. Located at the main entry gate off Thomas St
	Sewer Discharge Pit. Sewer discharge pits (Southern Buildings) Located at main school entrance on Thomas St
THIN SW	Comms Main Feeder Pit. Located at the secondary driveway entrance of Thomas St.
	Comms Main Feeder Pit. Located at the main entry gate





Pipe blockages/Pit Obstructions -

Where possible, Astrea endeavours to show a completed stormwater/sewer network.

There are some instances onsite where a pipe network could not be determined due to features blocked pipes, pits full of debris/Water, buried pits or junction chambers or non-present junction chambers. See (image 2) below.



Image 2 – SW Pit 45, unable to visually inspect and measure pipes. Pit is full of water and has sealed plumbing features below the water line

In these instances, technicians have made best effort to assume the line of these services and the network in which they discharge into. The quality level of pipes should be noted in these scenarios.

Astrea can make recommendations on alternative methods such as CCTV or cleaning of pits that may assist in confirming these networks.

(UTO) unable to open – Where possible technicians open pits using best industry practice however in some instances there were pits that cannot be opened without specialised mechanical lifting or casing unnecessary damage to existing areas. (Image 3) below is an example pit that could not be opened during routine investigations.



Image 3 – SW32, Stormwater pit cover that cannot be manually lifted by a two-person team 300kg +.

The lip fitting prevents the lid from being able to slide off for inspection- mechanical lift required for inspection.



Image 5 – Sewer Rising Main pit locked –Licenced Plumber to provide access if internal information is required.

Asset Register - Trace Limitations

Item	Limitation	Comment	Recommendation	
Shoalhaven Water Sewer Main	Missing Pits	Some pits represented on the Shoalhaven water plans could not be identified in the field	CCTV line to establish if pits are in fact present	
Pressure Sewer	Sewer in demountable toilet – Non traceable			
SEW05 Pit Full of water- sewer plumbing features within the water, sealed – Outgoing standpipe does n		No pipe features are visible within the water, PVC standpipe does not have inspection points	Pump Water, engage plumber to open pipe work if information is required.	
SEW06 Pit has sealed IO covers, Confined space — outgoing sewer lines have been connected via sonic testing. Class C trace only		Sealed inspection points are located at the bottom of a sewer chamber- this required a confined space entry setup to open and remove caps	Confined space entry and or engage plumber	
SEW04	Pit has sealed IO covers, Confined space – outgoing sewer lines have been represented as class D only.	Sealed inspection points are located at the bottom of a sewer chamber- this required a confined space entry setup to open and remove caps	Confined space entry and or engage plumber	
SW40 UTO – Heavy Lift incoming and outgoing pipes have been traced to quality level C only		Extremely heavy concrete lid could not be manually removed	Hydraulic/mechanica lift required to remove pit lid.	
Fire Hydrant	No trace on some fire hydrant lines	It is suspected that fire hydrant lines are made of non-conductive PVC or Poly materials and unable to be traced via electromagnetic techniques	Non-destructive digging investigations should additional information be required.	

Recommendations:

Where possible Astrea has aimed to achieve Quality level B data. It is recommended that NDD be carried out over areas of concern so that the highest level of data (Quality level A) be achieved.

Where services routes cannot be determined due to lack of traceable signal then it is recommended that Non-Destructive Digging be utilised to help define routes.

Where localised plumbing features are required to be traced it is recommended that push camera CCTV be utilised to help identify alignments. Camera footage can help identify obstructions sometimes attributed to plumbing features (boundary traps U bends etc.) which could not otherwise be determined with traditional EM tracing.

4 RECOMMENDATION AND CONCLUSION

In relation to the site detail and level survey

In relation to underground services we have made every attempt to find all information on public record.

Where possible Astrea has aimed to achieve Quality level B data. It is recommended that NDD be carried out over areas of concern so that the highest level of data (Quality level A) be achieved. Where services routes cannot be determined due to lack of traceable signal then it is recommended that Non-Destructive Digging be utilised to help define routes.

Where localised plumbing features are required to be traced it is recommended that push Camera CCTV be utilised to help identify alignments. Camera footage can help identify obstructions sometimes attributed to plumbing features (boundary traps U bends etc.) which could not otherwise be determined with traditional EM tracing.

Appendix A of this report contains all Cadastral search documents purchased and utilised as part of this report.

Appendix B contains all relevant documents ordered via the BYDA search.

Appendix C contains the sheeted detailed site survey.

Appendix D contains the underground service locators field report.

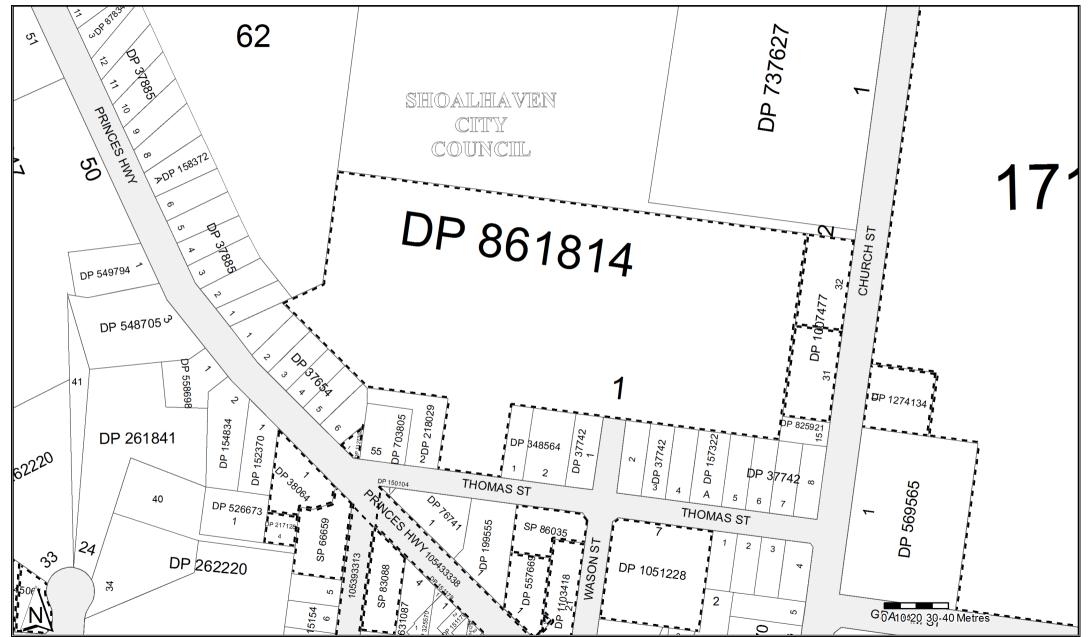
Appendix A. Cadastral Search Documents.



Cadastral Records Enquiry Report: Lot 1 DP 861814

Parish: ULLADULLA

Locality: MILTON **LGA**: SHOALHAVEN County: ST VINCENT



This information is provided as a searching aid only. Whilst every endeavour is made to ensure that current map, plan and titling information is accurately reflected, the Registrar General cannot guarantee the information provided. For ALL ACTIVITY PRIOR TO SEPTEMBER 2002 you must refer to the RGs Charting and Reference Maps

Ref: NOUSER



Cadastral Records Enquiry Report: Lot 1 DP 861814

Ref: NOUSER

Locality : MILTONParish : ULLADULLALGA : SHOALHAVENCounty : ST VINCENT

			Dunty . ST VINCEINT
	Status	Surv/Comp	Purpose
DP38064			
Lot(s): 1	DEGISTEDED	0115) (5) (E 4 0 E 1 I E 1 I E
☐ DP1021919	REGISTERED	SURVEY	EASEMENT
DP217128 ₋ot(s): 4			
DP1021919	REGISTERED	SURVEY	EASEMENT
DP557669			
_ot(s): 1, 3			
P1103418	REGISTERED	SURVEY	SUBDIVISION
DP861814			
_ot(s): 1	DECICTEDED	OLIDVEY.	OLIDDIV/IOLOM
PP4420822	REGISTERED	SURVEY	SUBDIVISION
■ DP1120833	REGISTERED	SURVEY	EASEMENT
DP1007477 .ot(s): 31, 32			
DP861814	HISTORICAL	SURVEY	SUBDIVISION
DP1051228		: · · - ·	
ot(s): 7			
DP231561	HISTORICAL	SURVEY	SUBDIVISION
DP789217	HISTORICAL	SURVEY	SUBDIVISION
DP1103418			
_ot(s): 21	LUCTORIONI	OLIDVEY.	LINDEGEADOLIED
■ DP73C305	HISTORICAL	SURVEY	UNRESEARCHED
P CD96035	HISTORICAL	COMPILATION	DEPARTMENTAL STRATA BLAN
₽ SP86035	REGISTERED	COMPILATION	STRATA PLAN
DP1127308 .ot(s): 1			
CA111131 - LC	OT 1 DP1127308		
DP1145061			
.ot(s): 1, 2			
DP262220	HISTORICAL	SURVEY	SUBDIVISION
DP1274134			
.ot(s): 11	HISTORICAL	COMPILATION	UNRESEARCHED
DP192832 DP737627		COMPILATION	DEPARTMENTAL
₩ DP/3/02/	HISTORICAL	COMPILATION	DEPARTMENTAL
_			
P1290102			
DP1290102 ot(s): 171	HISTORICAL	COMPILATION	UNRESEARCHED
DP1290102 .ot(s): 171 DP192832	HISTORICAL HISTORICAL	COMPILATION COMPILATION	UNRESEARCHED DEPARTMENTAL
DP1290102 .ot(s): 171			
DP1290102 .ot(s): 171 	HISTORICAL	COMPILATION	DEPARTMENTAL
DP1290102 .ot(s): 171 	HISTORICAL HISTORICAL HISTORICAL	COMPILATION	DEPARTMENTAL
DP1290102 .ot(s): 171	HISTORICAL HISTORICAL	COMPILATION SURVEY	DEPARTMENTAL SUBDIVISION
DP1290102 Lot(s): 171	HISTORICAL HISTORICAL HISTORICAL	COMPILATION SURVEY SURVEY	DEPARTMENTAL SUBDIVISION OLD SYSTEM CONVERSION
DP1290102 .ot(s): 171	HISTORICAL HISTORICAL HISTORICAL HISTORICAL	COMPILATION SURVEY SURVEY SURVEY	DEPARTMENTAL SUBDIVISION OLD SYSTEM CONVERSION OLD SYSTEM CONVERSION
DP1290102 Ot(s): 171	HISTORICAL HISTORICAL HISTORICAL HISTORICAL HISTORICAL REGISTERED	COMPILATION SURVEY SURVEY SURVEY COMPILATION COMPILATION	DEPARTMENTAL SUBDIVISION OLD SYSTEM CONVERSION OLD SYSTEM CONVERSION CONSOLIDATION STRATA SUBDIVISION PLAN
DP1290102 .ot(s): 171	HISTORICAL HISTORICAL HISTORICAL HISTORICAL HISTORICAL REGISTERED HISTORICAL	COMPILATION SURVEY SURVEY SURVEY COMPILATION COMPILATION SURVEY	DEPARTMENTAL SUBDIVISION OLD SYSTEM CONVERSION OLD SYSTEM CONVERSION CONSOLIDATION STRATA SUBDIVISION PLAN SUBDIVISION
DP1290102 .ot(s): 171	HISTORICAL HISTORICAL HISTORICAL HISTORICAL HISTORICAL REGISTERED HISTORICAL HISTORICAL	COMPILATION SURVEY SURVEY SURVEY COMPILATION COMPILATION SURVEY SURVEY	DEPARTMENTAL SUBDIVISION OLD SYSTEM CONVERSION OLD SYSTEM CONVERSION CONSOLIDATION STRATA SUBDIVISION PLAN SUBDIVISION REDEFINITION
DP1290102 .ot(s): 171	HISTORICAL HISTORICAL HISTORICAL HISTORICAL HISTORICAL REGISTERED HISTORICAL HISTORICAL RISTORICAL REGISTERED	COMPILATION SURVEY SURVEY SURVEY COMPILATION COMPILATION SURVEY SURVEY COMPILATION	DEPARTMENTAL SUBDIVISION OLD SYSTEM CONVERSION OLD SYSTEM CONVERSION CONSOLIDATION STRATA SUBDIVISION PLAN SUBDIVISION REDEFINITION STRATA CONSOLIDATION PLAN
DP1290102 .ot(s): 171	HISTORICAL HISTORICAL HISTORICAL HISTORICAL HISTORICAL REGISTERED HISTORICAL HISTORICAL	COMPILATION SURVEY SURVEY SURVEY COMPILATION COMPILATION SURVEY SURVEY	DEPARTMENTAL SUBDIVISION OLD SYSTEM CONVERSION OLD SYSTEM CONVERSION CONSOLIDATION STRATA SUBDIVISION PLAN SUBDIVISION REDEFINITION
DP1290102 Lot(s): 171	HISTORICAL HISTORICAL HISTORICAL HISTORICAL HISTORICAL REGISTERED HISTORICAL HISTORICAL REGISTERED UNREGISTERED	COMPILATION SURVEY SURVEY SURVEY COMPILATION COMPILATION SURVEY SURVEY COMPILATION COMPILATION COMPILATION	DEPARTMENTAL SUBDIVISION OLD SYSTEM CONVERSION OLD SYSTEM CONVERSION CONSOLIDATION STRATA SUBDIVISION PLAN SUBDIVISION REDEFINITION STRATA CONSOLIDATION PLAN STRATA SUBDIVISION PLAN
DP1290102 Lot(s): 171	HISTORICAL HISTORICAL HISTORICAL HISTORICAL HISTORICAL REGISTERED HISTORICAL HISTORICAL REGISTERED UNREGISTERED HISTORICAL	COMPILATION SURVEY SURVEY SURVEY COMPILATION COMPILATION SURVEY SURVEY COMPILATION COMPILATION COMPILATION SURVEY	DEPARTMENTAL SUBDIVISION OLD SYSTEM CONVERSION OLD SYSTEM CONVERSION CONSOLIDATION STRATA SUBDIVISION PLAN SUBDIVISION REDEFINITION STRATA CONSOLIDATION PLAN STRATA SUBDIVISION PLAN OLD SYSTEM CONVERSION
DP1290102 Lot(s): 171	HISTORICAL HISTORICAL HISTORICAL HISTORICAL HISTORICAL REGISTERED HISTORICAL HISTORICAL REGISTERED UNREGISTERED HISTORICAL HISTORICAL HISTORICAL HISTORICAL HISTORICAL	COMPILATION SURVEY SURVEY SURVEY COMPILATION COMPILATION SURVEY SURVEY COMPILATION COMPILATION COMPILATION SURVEY COMPILATION COMPILATION	DEPARTMENTAL SUBDIVISION OLD SYSTEM CONVERSION OLD SYSTEM CONVERSION CONSOLIDATION STRATA SUBDIVISION PLAN SUBDIVISION REDEFINITION STRATA CONSOLIDATION PLAN STRATA SUBDIVISION PLAN OLD SYSTEM CONVERSION DEPARTMENTAL
DP1290102 Lot(s): 171	HISTORICAL HISTORICAL HISTORICAL HISTORICAL HISTORICAL REGISTERED HISTORICAL HISTORICAL REGISTERED UNREGISTERED HISTORICAL	COMPILATION SURVEY SURVEY SURVEY COMPILATION COMPILATION SURVEY SURVEY COMPILATION COMPILATION COMPILATION SURVEY	DEPARTMENTAL SUBDIVISION OLD SYSTEM CONVERSION OLD SYSTEM CONVERSION CONSOLIDATION STRATA SUBDIVISION PLAN SUBDIVISION REDEFINITION STRATA CONSOLIDATION PLAN STRATA SUBDIVISION PLAN OLD SYSTEM CONVERSION

Caution:

This information is provided as a searching aid only. Whilst every endeavour is made the ensure that current map, plan and titling information is accurately reflected, the Registrar General cannot guarantee the information provided. For **ALL**

ACTIVITY PRIOR TO SEPTEMBER 2002 you must refer to the RGs Charting and Reference Maps.

EX-SUR 68/01 DP978250



Cadastral Records Enquiry Report: Lot 1 DP 861814

Ref: NOUSER

Locality : MILTONParish : ULLADULLALGA : SHOALHAVENCounty : ST VINCENT

	EOA: OHO/KEH/(VEN	County : OT VINGENT
Plan	Surv/Comp	Purpose
DP23970	SURVEY	UNRESEARCHED
DP37654	SURVEY	UNRESEARCHED
DP37742	SURVEY	UNRESEARCHED
DP37885	SURVEY	UNRESEARCHED
DP38064	SURVEY	UNRESEARCHED
DP76741	SURVEY	UNRESEARCHED
-		
DP150104	COMPILATION	UNRESEARCHED
DP151179	COMPILATION	UNRESEARCHED
DP152370	SURVEY	UNRESEARCHED
DP154834	SURVEY	UNRESEARCHED
DP157322	COMPILATION	UNRESEARCHED
DP158372	COMPILATION	UNRESEARCHED
DP199555	COMPILATION	DEPARTMENTAL
DP217128	SURVEY	SUBDIVISION
DP218029	SURVEY	SUBDIVISION
DP261841	SURVEY	SUBDIVISION
DP262220	SURVEY	SUBDIVISION
DP325570	SURVEY	UNRESEARCHED
DP348564	COMPILATION	UNRESEARCHED
DP514129	SURVEY	SUBDIVISION
DP515154	SURVEY	OLD SYSTEM CONVERSION
DP526673	SURVEY	SUBDIVISION
DP548705	SURVEY	SUBDIVISION
DP549794	SURVEY	SUBDIVISION
DP557669	SURVEY	OLD SYSTEM CONVERSION
DP558698	SURVEY	SUBDIVISION
DP569565	SURVEY	SUBDIVISION
DP624847	COMPILATION	SUBDIVISION
DP631087	SURVEY	SUBDIVISION
DP703805	SURVEY	OLD SYSTEM CONVERSION
DP736273	COMPILATION	DEPARTMENTAL
DP737627	COMPILATION	DEPARTMENTAL
DP789217	SURVEY	SUBDIVISION
DP817607	SURVEY	SUBDIVISION
DP825921	SURVEY	DELIMITATION
DP861814	SURVEY	SUBDIVISION
DP872508	SURVEY	SUBDIVISION
DP878340	SURVEY	SUBDIVISION
DP1007477	SURVEY	SUBDIVISION
DP1051228	COMPILATION	CONSOLIDATION
DP1103418	SURVEY	SUBDIVISION
DP1127308	COMPILATION	LIMITED FOLIO CREATION
DP1145061	SURVEY	SUBDIVISION
DP1274134	SURVEY	SUBDIVISION
DP1290102	SURVEY	SUBDIVISION
SP66659	COMPILATION	STRATA PLAN
SP83088	COMPILATION	STRATA PLAN
SP86035	COMPILATION	STRATA PLAN
	= = ····· · = ····· = ····	

This information is provided as a searching aid only. Whilst every endeavour is made the ensure that current map, plan and titling information is accurately reflected, the Registrar General cannot guarantee the information provided. For **ALL**



Information Provided Through Aussearch Ph. 02 9054 6867 Fax.

NEW SOUTH WALES LAND REGISTRY SERVICES - TITLE SEARCH

FOLIO: 1/861814

SEARCH DATE \mathtt{TIME} EDITION NO DATE --------------19/9/2023 2:18 PM 2 8/12/2007

LAND

LOT 1 IN DEPOSITED PLAN 861814 AT MILTON LOCAL GOVERNMENT AREA SHOALHAVEN PARISH OF ULLADULLA COUNTY OF ST VINCENT

FIRST SCHEDULE

MINISTER FOR EDUCATION AND TRAINING

(CA58890)

SECOND SCHEDULE (5 NOTIFICATIONS)

TITLE DIAGRAM DP861814

- RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
- DP1007477 EASEMENT TO DRAIN WATER 1 METRE(S) WIDE APPURTENANT TO THE LAND ABOVE DESCRIBED
- 3 DP1120833 RESTRICTION(S) ON THE USE OF LAND
- DP1120833 EASEMENT FOR PADMOUNT SUBSTATION 2.75 METRE(S) WIDE AFFECTING THE PART(S) SHOWN SO BURDENED IN DP1120833
- 5 DP1120833 EASEMENT FOR UNDERGROUND CABLES 1 METRE(S) WIDE AFFECTING THE PART(S) SHOWN SO BURDENED IN DP1120833

NOTATIONS

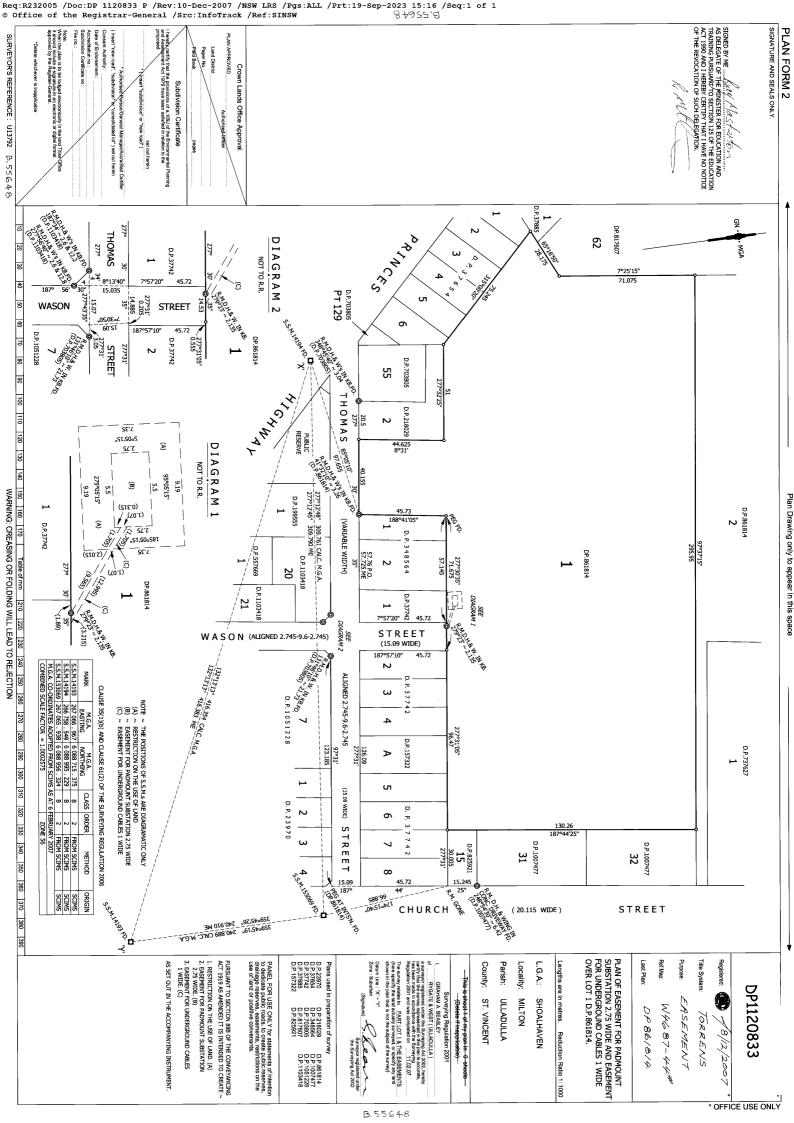
UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

milton

PRINTED ON 19/9/2023

^{*} Any entries preceded by an asterisk do not appear on the current edition of the Certificate of Title. Warning: the information appearing under notations has not been formally recorded in the Register. InfoTrack an approved NSW Information Broker hereby certifies that the information contained in this document has been provided electronically by the Registrar General in accordance with Section 96B(2) of the Real Property Act 1900.





SCIMS SURVEY MARK REPORT AS AT: 22-SEP-2023

Your Reference: milton Search Number: 1102352

MARK NAME STATUS	COORDINA	TES AND HEIGHTS		CLASS	PU	LU	SOURCE	CSF CONVERGENCE AUSGEOID2020
SS 14194		Horizontal coor	dinates ar	e adjusted	(or initia	ised) in GD	A2020	
	MGA2020	266758.988 6088996.652	56	В	0.03	0.03	301189	1.000255
	GDA2020	-35° 18' 54.23221" 150°	26' 03.8	31558"				-1° 29' 01.59"
	GDA2020	Ellipsoidal Height	99.1	Е	0.18		300777	
	AHD71	Normal-Orthometric	80.856	LB	0.03	0.01	300202	18.227
SS 40435		Horizontal coor	dinates ar	e adjusted	(or initia	ised) in GD	A2020	
	MGA2020	266631.216 6089160.991	56	В	0.03	0.03	301189	1.000256
	GDA2020	-35° 18' 48.79560" 150°	25' 58.9	92892"				-1° 29' 04.22"
	GDA2020	Ellipsoidal Height	96.4	E	0.18		300777	
	AHD71	Normal-Orthometric	78.172	LB	0.03	0.01	300202	18.240
SS 153069		Horizontal coor	dinates ar	e adjusted	(or initia	ised) in GD	A2020	
	MGA2020	267066.383 6088957.747	56	В	0.04	0.04	301189	1.000257
	GDA2020	-35° 18' 55.75188" 150°	26' 15.9	93753"				-1° 28' 54.63"
	GDA2020	Ellipsoidal Height	77.	U			300778	
	AHD71	Normal-Orthometric	59.	U			300564	18.211



Mark Status* **Map Legend** F Found Intact SCIMS Mark types (Colour codes refer to the assigned accuracy "Class") N Not Found **D** Destroyed SS PΜ TS CR MM CP GB S Subsidence Area **U** Uncertain Established GDA2020 + Accurate AHD71 R Restricted Access 0 \wedge • Established GDA2020 Only V 0 Λ • Accurate AHD71 Only 0 Λ • Accurate AHD71 + Approx. GDA2020 Λ 0 (Approx. GDA2020 Only Unknown * Where available. the Mark Status is appended to the Established GDA coordinates are assigned accuracy class 3A, 2A, A, B, C or D Mark Number in the map Accurate AHD heights are assigned accuracy class L2A, LA, LB, LC, LD, 2A, A or B

Note: SCIMS publishes coordinates, heights, Uncertainty and Class for NSW State control survey marks to an appropriate precision based on survey observations currently on public record. Positional Uncertainty and Local Uncertainty are only displayed where computed through a least-squares network adjustment. Refer to Surveyors-General's Directions: http://spatialservices.finance.nsw.gov.au/surveying/publications/surveyor_generals_directions

Disclaimer: This report has been generated by various sources and is provided for information purposes only. Spatial Services, a division of the NSW Department of Customer Service, does not warrant or represent that the information is free from errors or omission, or that it is exhaustive. Spatial Services accepts no liability for loss, damage, or costs that may incur relating to any use or reliance upon the information in this report. Spatial Services gives no warranty in relation to the information, especially material supplied by third parties.



Mark	Name		Λ۱	lias				
SS 14194	Ivaille		Ai	lias				
Status	Date	Comments						
Sialus	Date	Comments						
Location	Manumant		_	Note Dlaced	Dlacad Dv			
Location GROUND LEVEL	Monument UNKNOWN		L	ate Placed	Placed By			
MGA2020/GDA2020	I							
	Horizo	ntal coordinates	are adjusted	(or initialised) i	n GDA2020			
MGA2020 Easting	MGA2020 Northin	g Zone	GDA2020	GDA2020 Latitude GDA2020 Lor				
266758.988	6088996.652	-35° 18' 54	.23221"		150° 26′ 03.81	558"		
Class	Positional Uncerta	Positional Uncertainty Loc		ertainty		GDA2020 Up	dated	
В	0.03		0.03	03		9-MAY-2023		
Source	Туре	Method		Date issued Issued E		Ву		
301189	ADJUSTMENT	DYNADJU	ST	1-MAY-2023	JOEL H	IAASDYK		
Previous Reference		Location					File Number	
n/a		n/a					n/a	
Comments								
GDA2020 STATE ADJ	USTMENT MAY 2023							
MGA2020 Combined	Scale Factor		MC	GA2020 Conv	ergence			
1.000255			-1°	29' 01.59"				
AusGeoid2020(N)								
18.227								
GDA2020 Ellipsoidal	Height							
Height								
99.1								
Class	Positional Uncertai	nty	Local Un	certainty	Ellipsoidal	Height Update	ed	
E	0.18			15-NOV-2021				
					13-140 4-20			
Source	Туре	Method		Date issued		Ву		
Source 300777	Type COMPUTATION	Method MANUAL		Date issued	Issued	By HON SMITH		
300777					Issued	•	File Number	
300777 Previous Reference		MANUAL			Issued	•	File Number	
300777 Previous Reference n/a		MANUAL Location			Issued	•		
300777 Previous Reference n/a Comments	COMPUTATION	MANUAL Location n/a	EOID2020 FI	15-NOV-2021	Issued I JONAT	HON SMITH		
300777 Previous Reference n/a Comments GDA2020 ELLIPSOIDA	COMPUTATION	MANUAL Location n/a	EOID2020 FI	15-NOV-2021	Issued I JONAT	HON SMITH		
300777 Previous Reference n/a Comments GDA2020 ELLIPSOIDA	COMPUTATION	MANUAL Location n/a	EOID2020 FI	15-NOV-2021	Issued I JONAT	HON SMITH		
300777 Previous Reference n/a Comments GDA2020 ELLIPSOIDA AHD71 Height	COMPUTATION	MANUAL Location n/a	EOID2020 FF	15-NOV-2021	Issued I JONAT	HON SMITH		
300777 Previous Reference n/a Comments GDA2020 ELLIPSOIDA AHD71 Height 80.856	COMPUTATION AL HEIGHTS DERIVE	MANUAL Location n/a D USING AUSGE		15-NOV-2021 ROM AHD71 SI	Issued JONAT	HON SMITH		
300777 Previous Reference n/a Comments GDA2020 ELLIPSOIDA AHD71 Height 80.856 Class	COMPUTATION AL HEIGHTS DERIVEI Positional Uncertai	MANUAL Location n/a D USING AUSGE	Local Un	15-NOV-2021 ROM AHD71 SI	Issued I JONAT PIRIT LEVEI	HON SMITH		
300777 Previous Reference n/a Comments GDA2020 ELLIPSOIDA AHD71 Height 80.856 Class	COMPUTATION AL HEIGHTS DERIVE	MANUAL Location n/a D USING AUSGE		15-NOV-2021 ROM AHD71 SI	Issued I JONAT PIRIT LEVEL AHD Upda 27-MAY-20	HON SMITH LLING ated		
300777 Previous Reference n/a Comments GDA2020 ELLIPSOIDA AHD71 Height 80.856 Class	COMPUTATION AL HEIGHTS DERIVEI Positional Uncertai	MANUAL Location n/a D USING AUSGE	Local Un	15-NOV-2021 ROM AHD71 SI	Issued I JONAT PIRIT LEVEL AHD Upda 27-MAY-20	HON SMITH LLING ated		
300777 Previous Reference n/a Comments GDA2020 ELLIPSOIDA AHD71 Height 80.856 Class LB Source	COMPUTATION AL HEIGHTS DERIVER Positional Uncertain 0.03	MANUAL Location n/a D USING AUSGE	Local Un	15-NOV-2021 ROM AHD71 SI	Issued I JONAT PIRIT LEVEI AHD Upda 27-MAY-20 Issued	HON SMITH LLING ated		
300777 Previous Reference n/a Comments GDA2020 ELLIPSOIDA AHD71 Height 80.856 Class LB	Positional Uncertai	MANUAL Location n/a D USING AUSGE	Local Un	15-NOV-2021 ROM AHD71 SI certainty Date issued	Issued I JONAT PIRIT LEVEI AHD Upda 27-MAY-20 Issued	LLING ated 20 By		
300777 Previous Reference n/a Comments GDA2020 ELLIPSOIDA AHD71 Height 80.856 Class LB Source 300202	Positional Uncertai	MANUAL Location n/a DUSING AUSGE nty Method DYNADJUS	Local Un	15-NOV-2021 ROM AHD71 SI certainty Date issued	Issued I JONAT PIRIT LEVEI AHD Upda 27-MAY-20 Issued	LLING ated 20 By	n/a	
300777 Previous Reference n/a Comments GDA2020 ELLIPSOIDA AHD71 Height 80.856 Class LB Source 300202 Previous Reference	Positional Uncertai	MANUAL Location n/a DUSING AUSGE nty Method DYNADJUS Location	Local Un	15-NOV-2021 ROM AHD71 SI certainty Date issued	Issued I JONAT PIRIT LEVEI AHD Upda 27-MAY-20 Issued	LLING ated 20 By	n/a File Number	





PM_____SSM__14194 MsM_____

	-	_	•		TV	-	1/			D			
L	O	C	А	ш	TY	2	ĸ	E	н	۲	L	Α.Ι	N

Parish ULLANUA	County ST VINCENT City or Tov	WI LTON
Municipality or ShireS.H	ALHANEN CXTY C.M.A. Map Sheet	MILTON 1:25 000
	Measurements are in metres	Zone/
)		
		THOMAS ST
	PRINCES TO	7 WAR MEMORIAL
EA.	Rey Dixon Silver Com 194	7:75 O LIGHT POLE
	Aussik Authores	SSnn 42005
	ORIGINA	*
Organization placing Marks SURVEY	CONTAGLREF. 4010	I certify that the Mark or Marks have been placed and numbered as detailed hereon.
Mark placed / / 19 Note: Replaces PM	PM	Λ Q
Locality Sketch Book No Fo		- Ven Begen
Plan Register noted / / 19	AA. AA	Date / 2 / 19 84

Survey (rdination Act, 1949.

Regulation 15



SSM No. 14194 S.C. 70-28

STATE SURVEY MARK SKETCH PLAN

(To be drawn in black waterproof ink, not necessarily to scale.)

Parish Ulladulla County St. Vincent - City or Town Milton
Municipality or Shire Shoalhoven Survey Area
NOTE - Measurements are to be shown from the mark to as many nearby survey marks, buildings, fence posts, kerbs, etc., as practicable for location on codastral plans and aerial photographs. Up to six measurements are desirable.
Measurements are in Fact
The Non-roll of the State of th
S.S.M. 14194
WYRILE SEW ISLOS TO MILOGUILO T
Mark last inspected Placed in connection with (type of survey or work) Milton - Ulladulla Sewerage Co-ordinate values of mark
Projection Origin Projection Origin
t certify that the State survey mark shown in this sketch has been placed on the ground and that the information shown hereon is correct.
Field Books (Date) 18t. May 1970 (Signature) Barry A alley of: 185 Elizabeth St. Sydney Public Authority.
(Date) 18t. May 1970 (Signature) Jamy 105 Elizabeth 31. Sydning
Public Authority. 4 authority. 4 authority.
(Date) 25th Sapt 1970 SSM No.14194 (Propos Officer-in-Charge) (Survey Co-ordination Branch.)

Monte							
Mark	Name		Ali	ias			
SS 40435							
Status	Date	Comments					
Location	Monument		D	ate Placed	Placed By		
GROUND LEVEL	UNKNOWN						
MGA2020/GDA2020							
	Horizon	tal coordinates	are adjusted	(or initialised)	in GDA2020		
MGA2020 Easting	MGA2020 Northing	Zone	GDA2020	Latitude		GDA2020 Lo	ngitude
266631.216	6089160.991	56	-35° 18' 48	.79560"		150° 25′ 58.92	892"
Class	Positional Uncertai	nty	Local Unc	ertainty		GDA2020 Up	dated
В	0.03		0.03			9-MAY-2023	
Source	Type	Method		Date issued		•	
301189	ADJUSTMENT	DYNADJU	ST	1-MAY-2023	JOEL F	IAASDYK	
Previous Reference		Location					File Number
n/a		n/a					n/a
Comments							
GDA2020 STATE ADJ	USTMENT MAY 2023						
MGA2020 Combined	Scale Factor		MG	A2020 Conv	ergence		
1.000256			-1°	29' 04.22"			
AugCooid2020(NI)							
AusGeoid2020(N) 18.240							
GDA2020 Ellipsoidal	Height						
Height							
96.4							
	Positional Uncertain	ty	Local Und	certainty		Height Update	ed
96.4 Class E	Positional Uncertain 0.18	ty	Local Und	certainty	Ellipsoidal		ed
Class E		ty Method	Local Und	certainty Date issued	15-NOV-20	21	ed
Class	0.18		Local Uno	·	15-NOV-20	21	ed
Class E Source	0.18 Type	Method	Local Und	Date issued	15-NOV-20	21 By	
Class E Source 300777	0.18 Type	Method MANUAL	Local Uno	Date issued	15-NOV-20	21 By	
Class E Source 300777 Previous Reference	0.18 Type	Method MANUAL Location	Local Und	Date issued	15-NOV-20	21 By	File Number
Class E Source 300777 Previous Reference n/a Comments	0.18 Type	Method MANUAL Location n/a		Date issued	15-NOV-20 I Issued I JONAT	21 By HON SMITH	File Number
Class E Source 300777 Previous Reference n/a Comments	0.18 Type COMPUTATION	Method MANUAL Location n/a		Date issued	15-NOV-20 I Issued I JONAT	21 By HON SMITH	File Number
Class E Source 300777 Previous Reference n/a Comments GDA2020 ELLIPSOIDA	0.18 Type COMPUTATION	Method MANUAL Location n/a		Date issued	15-NOV-20 I Issued I JONAT	21 By HON SMITH	File Number
Class E Source 300777 Previous Reference n/a Comments GDA2020 ELLIPSOIDA	0.18 Type COMPUTATION	Method MANUAL Location n/a		Date issued	15-NOV-20 I Issued I JONAT	21 By HON SMITH	File Number
Class E Source 300777 Previous Reference n/a Comments GDA2020 ELLIPSOIDA AHD71 Height 78.172	0.18 Type COMPUTATION AL HEIGHTS DERIVED	Method MANUAL Location n/a USING AUSG	EOID2020 FF	Date issued 15-NOV-202	15-NOV-20 I Issued I JONAT	21 By HON SMITH LLING	File Number
Class E Source 300777 Previous Reference n/a Comments GDA2020 ELLIPSOIDA AHD71 Height 78.172 Class	O.18 Type COMPUTATION AL HEIGHTS DERIVED Positional Uncertain	Method MANUAL Location n/a USING AUSG	EOID2020 FF	Date issued 15-NOV-202	15-NOV-20 I Issued 1 JONAT PIRIT LEVE	21 By HON SMITH LLING	File Number
Class E Source 300777 Previous Reference n/a Comments GDA2020 ELLIPSOIDA AHD71 Height 78.172 Class LB	O.18 Type COMPUTATION AL HEIGHTS DERIVED Positional Uncertain 0.03	Method MANUAL Location n/a USING AUSG	EOID2020 FF	Date issued 15-NOV-202 ROM AHD71 S certainty	15-NOV-20 I Issued I JONAT PIRIT LEVEL AHD Upda 27-MAY-20	21 By HON SMITH LLING ated	File Number
Class E Source 300777 Previous Reference n/a Comments GDA2020 ELLIPSOIDA AHD71 Height 78.172 Class LB Source	O.18 Type COMPUTATION AL HEIGHTS DERIVED Positional Uncertain 0.03 Type	Method MANUAL Location n/a USING AUSGI	EOID2020 FF Local Und	Date issued 15-NOV-202 ROM AHD71 S certainty Date issued	15-NOV-20 I Issued 1 JONAT PIRIT LEVEI AHD Upda 27-MAY-20 I Issued	By HON SMITH LLING ated 20 By	File Number
Class E Source 300777 Previous Reference n/a Comments GDA2020 ELLIPSOIDA AHD71 Height 78.172 Class LB Source 300202	O.18 Type COMPUTATION AL HEIGHTS DERIVED Positional Uncertain 0.03	Method MANUAL Location n/a USING AUSGI	EOID2020 FF Local Und	Date issued 15-NOV-202 ROM AHD71 S certainty	15-NOV-20 I Issued 1 JONAT PIRIT LEVEI AHD Upda 27-MAY-20 I Issued	21 By HON SMITH LLING ated	File Number n/a
Class E Source 300777 Previous Reference n/a Comments GDA2020 ELLIPSOIDA AHD71 Height 78.172 Class LB Source 300202 Previous Reference	O.18 Type COMPUTATION AL HEIGHTS DERIVED Positional Uncertain 0.03 Type	Method MANUAL Location n/a USING AUSGI ty Method DYNADJU Location	EOID2020 FF Local Und	Date issued 15-NOV-202 ROM AHD71 S certainty Date issued	15-NOV-20 I Issued 1 JONAT PIRIT LEVEI AHD Upda 27-MAY-20 I Issued	By HON SMITH LLING ated 20 By	File Number n/a
Class E Source 300777 Previous Reference n/a Comments GDA2020 ELLIPSOIDA AHD71 Height 78.172 Class LB Source 300202	O.18 Type COMPUTATION AL HEIGHTS DERIVED Positional Uncertain 0.03 Type	Method MANUAL Location n/a USING AUSGI	EOID2020 FF Local Und	Date issued 15-NOV-202 ROM AHD71 S certainty Date issued	15-NOV-20 I Issued 1 JONAT PIRIT LEVEI AHD Upda 27-MAY-20 I Issued	By HON SMITH LLING ated 20 By	File Number n/a





SSM 40435____ MiM____

LOCALITY SKETCH PLAN

Parish ULLADULLA County ST. VINCENT City or Town MILTON Municipality or Shire SHOALHAVEN C.M.A. Map Sheet MILTON W4687-1V

Zone .. \$6 /\ Measurements are in metres Hydrant Organization placing Marks SURVEY CONTROLET. I certify that the Mark or Marks have been

Mark placed 3 / 4 / 1984

Note: Replaces PM

Locality Sketch Book No. Fol.

Plan Register noted

S.O. 2019 D. West, Government Printe

PM____ SSM 40435

Designation SALENCYOR...

Date 3/4/1984

SURVEY MARK							
Mark	Name		Ali	as			
SS 153069							
Status	Date	Comments					
Location	Monument		D	ate Placed	Placed By	ı	
GROUND LEVEL	UNKNOWN			1 1000	1 10000 25		
MGA2020/GDA2020		4-1		/:::::::::::::::::::::::::::::::::::	:- OD 10000		
MGA2020 Easting	MGA2020 Northing	tal coordinates Zone	GDA2020	•	IN GDA2020	GDA2020 Lo	ongitude
267066.383	6088957.747	56	-35° 18' 55.			150° 26' 15.93	
Class	Positional Uncertai		Local Unc			GDA2020 Up	
В	0.04	,	0.04	ortalirey .		9-MAY-2023	Juanou
Source	Туре	Method	0.04	Date issued	d Issued		
301189	ADJUSTMENT	DYNADJU	ST	1-MAY-2023		HAASDYK	
Previous Reference		Location		2020	00221		File Number
n/a		n/a					n/a
Comments							
GDA2020 STATE ADJ	ISTMENT MAY 2022						
GDA2020 STATE ADJ	JSTMENT MAT 2023						
MGA2020 Combined	Scale Factor		MG	A2020 Conv	ergence		
1.000257			-1°	28' 54.63"			
AusGeoid2020(N)							
18.211							
GDA2020 Ellipsoidal	Height						
Height							
77.							
Class	Positional Uncertain	ty	Local Und	ertainty		l Height Updat	ed
U					15-NOV-20		
Source	Type	Method		Date issued	d Issued	Ву	
300778	COMPUTATION	MANUAL		15-NOV-202	1 JONAT	HON SMITH	
Previous Reference		Location					File Number
n/a		n/a					n/a
Comments							
GDA2020 ELLIPSOIDA	AL HEIGHTS DERIVED	USING AUSGI	EOID2020 FF	OM AHD71 D	IGITAL ELE	VATION MODE	L
 AHD71							
Height							
59.							
Class	Positional Uncertain	tv	Local Und	ertainty	AHD Upda	ated	
	1 Ositional Officertain	ty	Local Offic	criainty			
U	T	N A - 41 1		Data is	11-MAY-20		
0	Type	Method		Date issued		•	
	00115:	1 / 1 / 1 / 1 / 1 / n		11-MAY-202	1 JONAT	HON SMITH	
300564	COMPUTATION	MANUAL					
Source 300564 Previous Reference	COMPUTATION	Location					File Number
300564	COMPUTATION						File Number



LOCALITY SKETCH PLAN





Local Government Area Shoalhaven

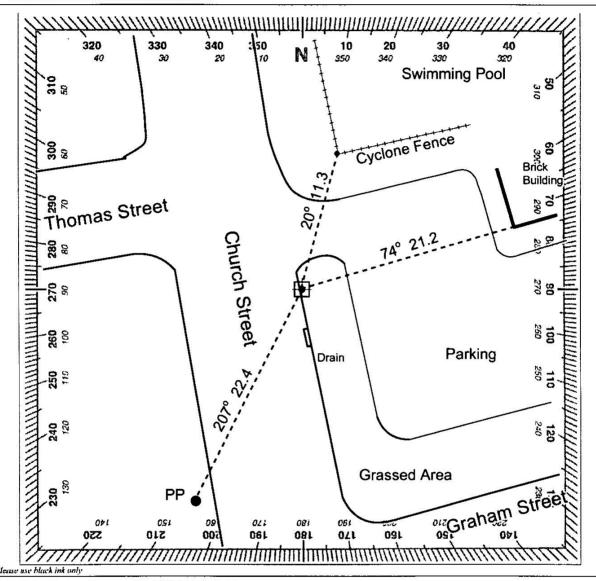
Town/Suburb/Locality

Milton

Description of Mark

55153069 On Kerb

Zone 56 Approx MGA Coordinate: 267065 6088956



	SUF	RVEYING	REGULATI	ON	Measurements are in metres	I certify that the mark h	as been placed/found
T	MARK	AHD	SOURCE	DATE		and numbered as detaile	
		1	-		PM	Signed:	
		DETERMINED pecify)		EVELLING EIGHTING	SS 153069	Name: De	nnis Sluys
11 2	× 100-	ADOPTED N	ARKS - GPS	000 (000000000000000000000000000000000		Organisation placing mark:	LPI
-					PMReplaces	Date mark placed/found:	16/08/05
						Ref:	

Appendix B. **BYDA Search Documents.**



Job No 34866501

Phone: 1100

www.byda.com.au

Caller Details

Contact: Caller Id: 3005839 0476 003 705 Astrea Locator Phone:

Company: Astrea

Address: 32 Delhi Rd

Macquarie Park NSW 2113

dbyd@astrea.com.au Email:

Dig Site and Enquiry Details

WARNING: The map below only displays the location of the proposed dig site and does not display any asset owners' pipe or cables. The area highlighted has been used only to identify the participating asset owners, who will send information to you directly.



User Reference: Milton PS Working on Behalf of: Private

Enquiry Date: End Date: Start Date: 18/08/2023 21/08/2023 21/09/2023

Address:

9 Thomas Street Milton NSW 2538

Job Purpose: **Onsite Activities:**

Excavation Manual Excavation, Mechanical Excavation,

Non-Destructive Digging

Location of Workplace: Location in Road:

Footpath, Nature Strip, Road

Check that the location of the dig site is correct. If not you must submit a new enquiry.

Should the scope of works change, or plan validity dates expire, you must submit a new

Do NOT dig without plans. Safe excavation is your responsibility. If you do not understand the plans or how to proceed safely, please contact the relevant asset owners.

Notes/Description of Works:

Not supplied

Your Responsibilities and Duty of Care

- The lodgement of an enquiry does not authorise the project to commence. You must obtain all necessary information from any and all likely impacted asset owners prior to excavation.
- If plans are not received within 2 working days, contact the asset owners directly & quote their Sequence No.
- ALWAYS perform an onsite inspection for the presence of assets. Should you require an onsite location, contact the asset owners directly. Please remember, plans do not detail the exact location of assets.
- Pothole to establish the exact location of all underground assets using a hand shovel, before using heavy machinery.
- Ensure you adhere to any State legislative requirements regarding Duty of Care and safe digging requirements.
- If you damage an underground asset you MUST advise the asset owner immediately.
- By using this service, you agree to Privacy Policy and the terms and disclaimers set out at www.byda.com.au
- For more information on safe excavation practices, visit www.byda.com.au

Asset Owner Details

The assets owners listed below have been requested to contact you with information about their asset locations within 2 working days.

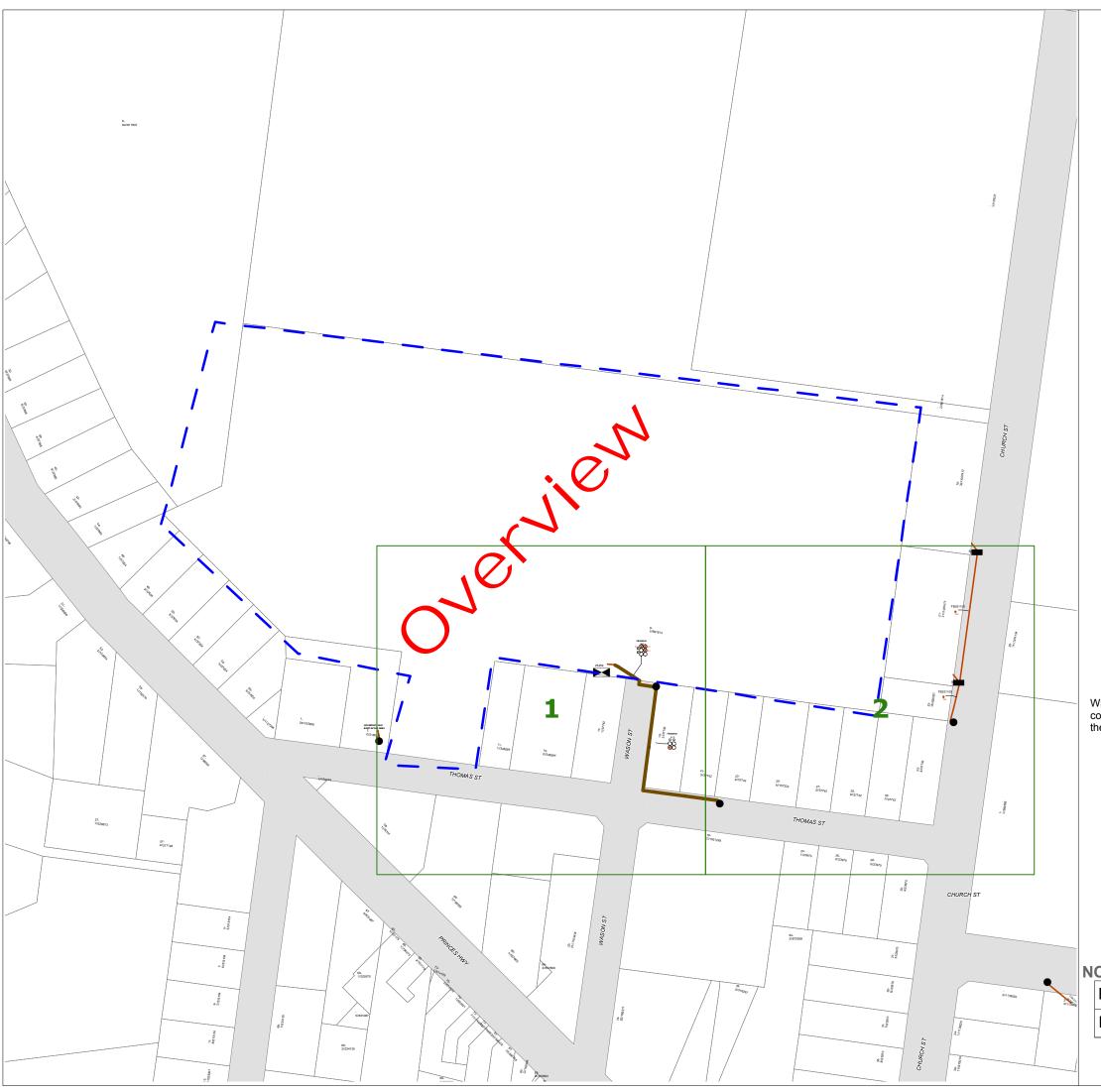
Additional time should be allowed for information issued by post. It is your responsibility to identify the presence of any underground assets in and around your proposed dig site. Please be aware, that not all asset owners are registered with the Before You Dig service, so it is your responsibility to identify and contact any asset owners not listed here directly.

** Asset owners highlighted by asterisks ** require that you visit their offices to collect plans.

Asset owners highlighted with a hash # require that you call them to discuss your enquiry or to obtain plans.

Seq. No.	Authority Name	Phone	Status
228546319	Endeavour Energy	(02) 9853 4161	NOTIFIED
228546318	NBN Co NswAct	1800 687 626	NOTIFIED
228546317	Shoalhaven Water	(02) 4429 3214	NOTIFIED
228546320	Telstra NSW South	1800 653 935	NOTIFIED

END OF LITH ITIES LIST





WARNING

- All electrical apparatus shall be regarded as live until proved de-energised.

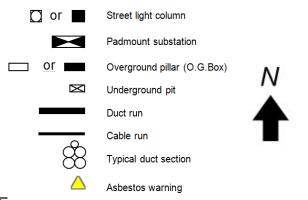
 Contact with live electrical apparatus will cause severe injury or death.
- Underground assets may be congested at the approach to bridges and other structures. Typical asset depths and alignment may vary substantially, rising and falling sharply and at much shallower depths than elsewhere as they are channelled into shared allocated spaces on bridges and other structures. Additional precautions and underground asset location methods will be required in proximity to bridges and other structures.
- In accordance with the *Electricity Supply Act 1995*, you are obliged to report any damage to Endeavour Energy Assets immediately by calling **131 003**.
- The customer must obtain a new set of plans from Endeavour Energy if work has not been started or completed within twenty (20) working days of the original plan issue date.
- The customer must contact Endeavour Energy if any of the plans provided have blank pages, as some underground asset information may be incomplete.
- Endeavour Energy underground earth grids may exist and their location may not
 be shown on plans. Persons excavating are expected to exercise all due care,
 especially in the vicinity of padmount substations, pole mounted substations, pole
 mounted switches, transmission poles and towers.
- Endeavour Energy plans **do not** show any underground customer service mains or information relating to service mains within private property.
- Asbestos or asbestos-containing material may be present on or near Endeavour Energy's underground assets.
- Organo-Chloride Pesticides (OCP) may be present in some sub-transmission trenches.
- All plans must be made available at the worksite where excavation is to be
 undertaken in either printed or electronic format. If the plans are in an electronic
 format, they must be in a format visible on a screen size 10 inches or greater.
 Plans must be reviewed and understood by the crew on site prior to commencing
 excavation
- Non-destructive water excavation must be operated at or below 2000PSI. Any operation exceeding 2000PSI must be classed and treated as a destructive excavation practice

INFORMATION PROVIDED BY ENDEAVOUR ENERGY

- Any plans provided pursuant to this service are intended to show the approximate location of underground assets relative to road boundaries, property fences and other structures at the time of installation.
- Depth of underground assets may vary significantly from information provided on plans as a result of changes to road, footpath or surface levels subsequent to installation.
- Such plans have been prepared solely for use by Endeavour Energy staff for design, construction and maintenance purposes.
- All enquiry details and results are kept in a register.

DISCLAIMER

Whilst Endeavour Energy has taken all reasonable steps to ensure that the information contained in the plans is as accurate as possible it will accept no liability for inaccuracies in the information shown on such plans.

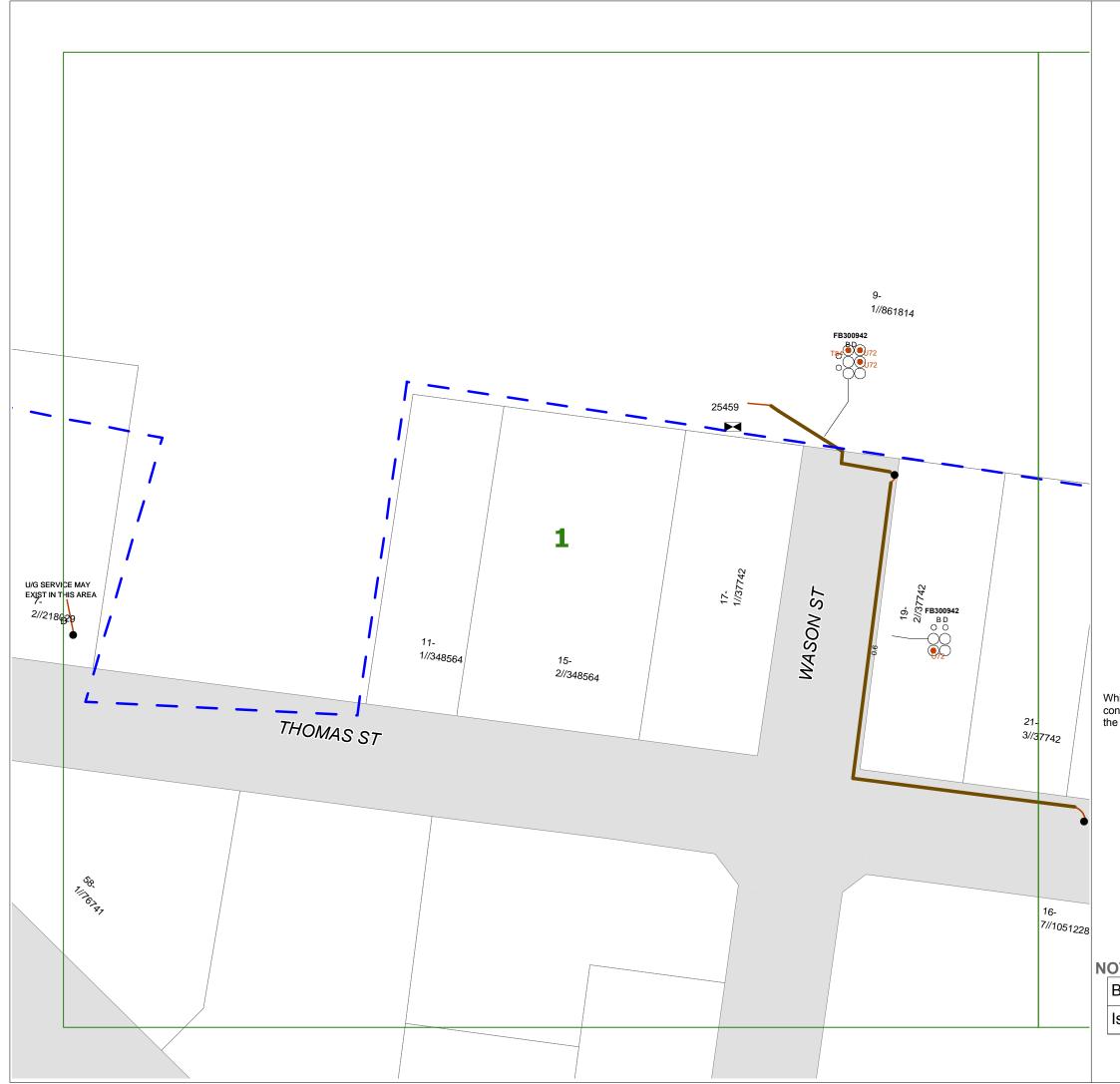


NOT TO SCALE

BYDA Sequence No.: 228546319

Issued Date: 18/08/2023

Cadastre: © Land and Property Information 2015, 2016





WARNING

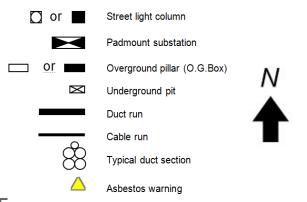
- All electrical apparatus shall be regarded as live until proved de-energised.
 Contact with live electrical apparatus will cause severe injury or death.
- Underground assets may be congested at the approach to bridges and other structures. Typical asset depths and alignment may vary substantially, rising and falling sharply and at much shallower depths than elsewhere as they are channelled into shared allocated spaces on bridges and other structures. Additional precautions and underground asset location methods will be required in proximity to bridges and other structures.
- In accordance with the *Electricity Supply Act 1995*, you are obliged to report any damage to Endeavour Energy Assets immediately by calling **131 003**.
- The customer must obtain a new set of plans from Endeavour Energy if work has not been started or completed within twenty (20) working days of the original plan issue date.
- The customer must contact Endeavour Energy if any of the plans provided have blank pages, as some underground asset information may be incomplete.
- Endeavour Energy underground earth grids may exist and their location **may not** be shown on plans. Persons excavating are expected to exercise all due care, especially in the vicinity of padmount substations, pole mounted substations, pole mounted switches, transmission poles and towers.
- Endeavour Energy plans do not show any underground customer service mains or information relating to service mains within private property.
- Asbestos or asbestos-containing material may be present on or near Endeavour Energy's underground assets.
- Organo-Chloride Pesticides (OCP) may be present in some sub-transmission trenches.
- All plans must be made available at the worksite where excavation is to be undertaken in either printed or electronic format. If the plans are in an electronic format, they must be in a format visible on a screen size 10 inches or greater. Plans must be reviewed and understood by the crew on site prior to commencing excavation.
- Non-destructive water excavation must be operated at or below 2000PSI. Any operation exceeding 2000PSI must be classed and treated as a destructive excavation practice

INFORMATION PROVIDED BY ENDEAVOUR ENERGY

- Any plans provided pursuant to this service are intended to show the approximate location of underground assets relative to road boundaries, property fences and other structures at the time of installation.
- Depth of underground assets may vary significantly from information provided on plans as a result of changes to road, footpath or surface levels subsequent to installation.
- Such plans have been prepared solely for use by Endeavour Energy staff for design, construction and maintenance purposes.
- All enquiry details and results are kept in a register.

DISCLAIMER

Whilst Endeavour Energy has taken all reasonable steps to ensure that the information contained in the plans is as accurate as possible it will accept no liability for inaccuracies in the information shown on such plans.

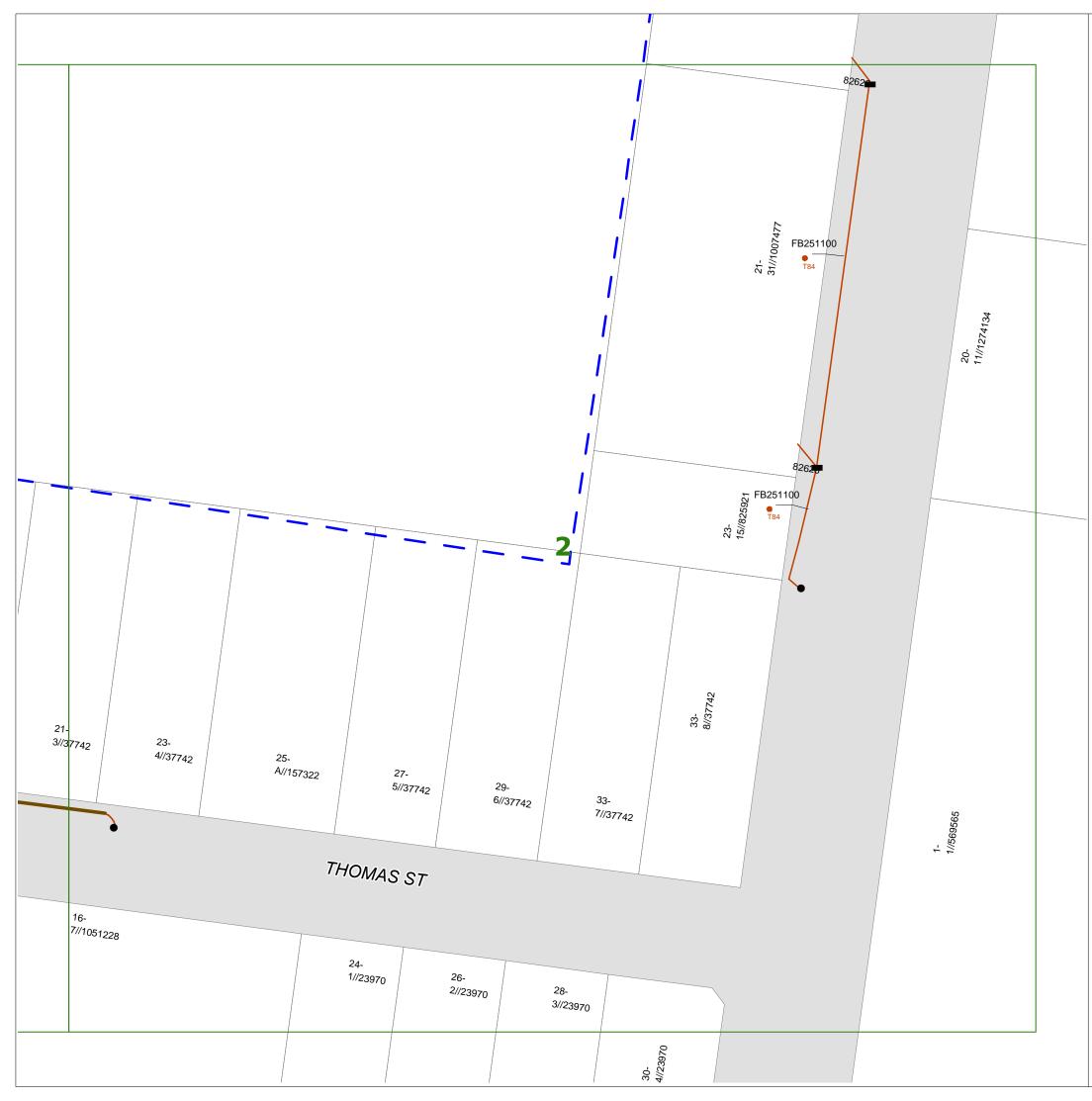


NOT TO SCALE

BYDA Sequence No.: 228546319

Issued Date: 18/08/2023

Cadastre: © Land and Property Information 2015, 2016





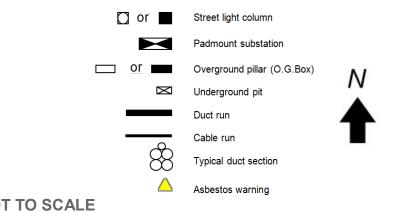
- All electrical apparatus shall be regarded as live until proved de-energised. Contact with live electrical apparatus will cause severe injury or death.
- Underground assets may be congested at the approach to bridges and other structures. Typical asset depths and alignment may vary substantially, rising and falling sharply and at much shallower depths than elsewhere as they are channelled into shared allocated spaces on bridges and other structures. Additional precautions and underground asset location methods will be required in proximity to bridges and other structures.
- In accordance with the Electricity Supply Act 1995, you are obliged to report any damage to Endeavour Energy Assets immediately by calling 131 003.
- The customer must obtain a new set of plans from Endeavour Energy if work has not been started or completed within twenty (20) working days of the original plan issue date.
- The customer must contact Endeavour Energy if any of the plans provided have blank pages, as some underground asset information may be incomplete.
- Endeavour Energy underground earth grids may exist and their location may not be shown on plans. Persons excavating are expected to exercise all due care, especially in the vicinity of padmount substations, pole mounted substations, pole mounted switches, transmission poles and towers.
- Endeavour Energy plans do not show any underground customer service mains or information relating to service mains within private property.
- Asbestos or asbestos-containing material may be present on or near Endeavour Energy's underground assets.
- Organo-Chloride Pesticides (OCP) may be present in some sub-transmission
- All plans must be made available at the worksite where excavation is to be undertaken in either printed or electronic format. If the plans are in an electronic format, they must be in a format visible on a screen size 10 inches or greater. Plans must be reviewed and understood by the crew on site prior to commencing
- Non-destructive water excavation must be operated at or below 2000PSI. Any operation exceeding 2000PSI must be classed and treated as a destructive excavation practice

INFORMATION PROVIDED BY ENDEAVOUR ENERGY

- Any plans provided pursuant to this service are intended to show the approximate location of underground assets relative to road boundaries, property fences and other structures at the time of installation.
- Depth of underground assets may vary significantly from information provided on plans as a result of changes to road, footpath or surface levels subsequent to
- Such plans have been prepared solely for use by Endeavour Energy staff for design, construction and maintenance purposes.
- All enquiry details and results are kept in a register.

DISCLAIMER

Whilst Endeavour Energy has taken all reasonable steps to ensure that the information contained in the plans is as accurate as possible it will accept no liability for inaccuracies in the information shown on such plans.



NOT TO SCALE

BYDA Sequence No.:	228546319
Issued Date:	18/08/2023

Cadastre: © Land and Property Information 2015, 2016

To: Astrea Locator
Phone: Not Supplied
Fax: Not Supplied

Email: Astrea.Locator.3005839@mail.au.pac.pcges.com.au

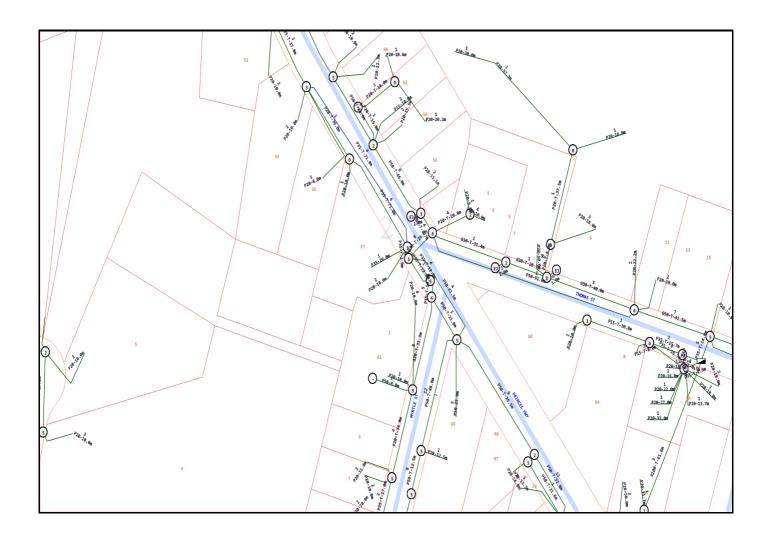
Dial before you dig Job #:	34866501	PIAL DESCRIP
Sequence #	228546318	YOU DIG
Issue Date:	18/08/2023	www.1100.com.au
Location:	9 Thomas Street, Milton, NSW, 2538	WWW.Too.com.ad

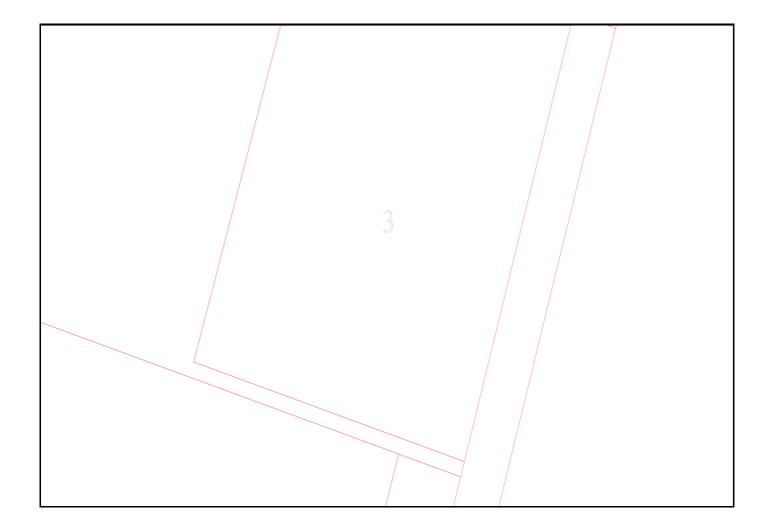
Indicative Plans

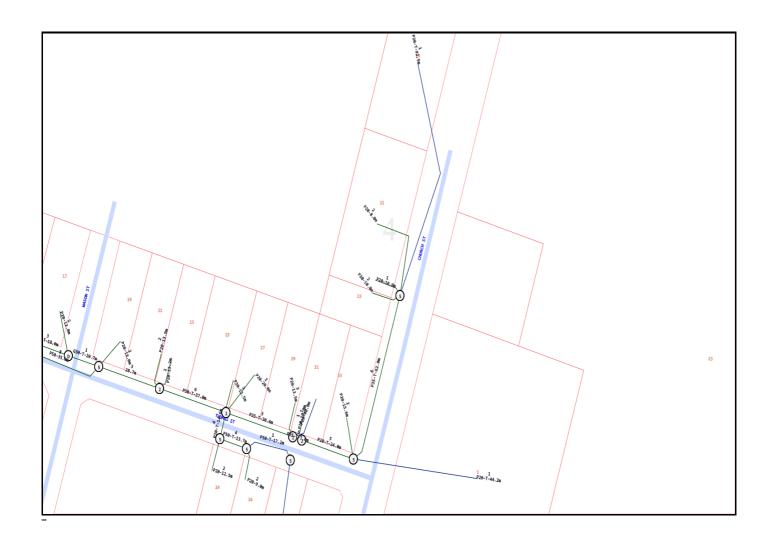
1	3
2	4

- -	LEGEND nbn (i)
34	Parcel and the location
3	Pit with size "5"
(2E)	Power Pit with size "2E". Valid PIT Size: e.g. 2E, 5E, 6E, 8E, 9E, E, null.
	Manhole
\otimes	Pillar
PO - T- 25.0m P40 - 20.0m	Cable count of trench is 2. One "Other size" PVC conduit (PO) owned by Telstra (-T-), between pits of sizes, "5" and "9" are 25.0m apart. One 40mm PVC conduit (P40) owned by NBN, between pits of sizes, "5" and "9" are 20.0m apart.
3 1 9	2 Direct buried cables between pits of sizes ,"5" and "9" are 10.0m apart.
-00-	Trench containing any INSERVICE/CONSTRUCTED (Copper/RF/Fibre) cables.
-0-0-	Trench containing only DESIGNED/PLANNED (Copper/RF/Fibre/Power) cables.
-0-0-	Trench containing any INSERVICE/CONSTRUCTED (Power) cables.
BROADWAY ST	Road and the street name "Broadway ST"
Scale	0 20 40 60 Meters 1:2000 1 cm equals 20 m







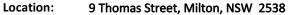


Emergency Contacts

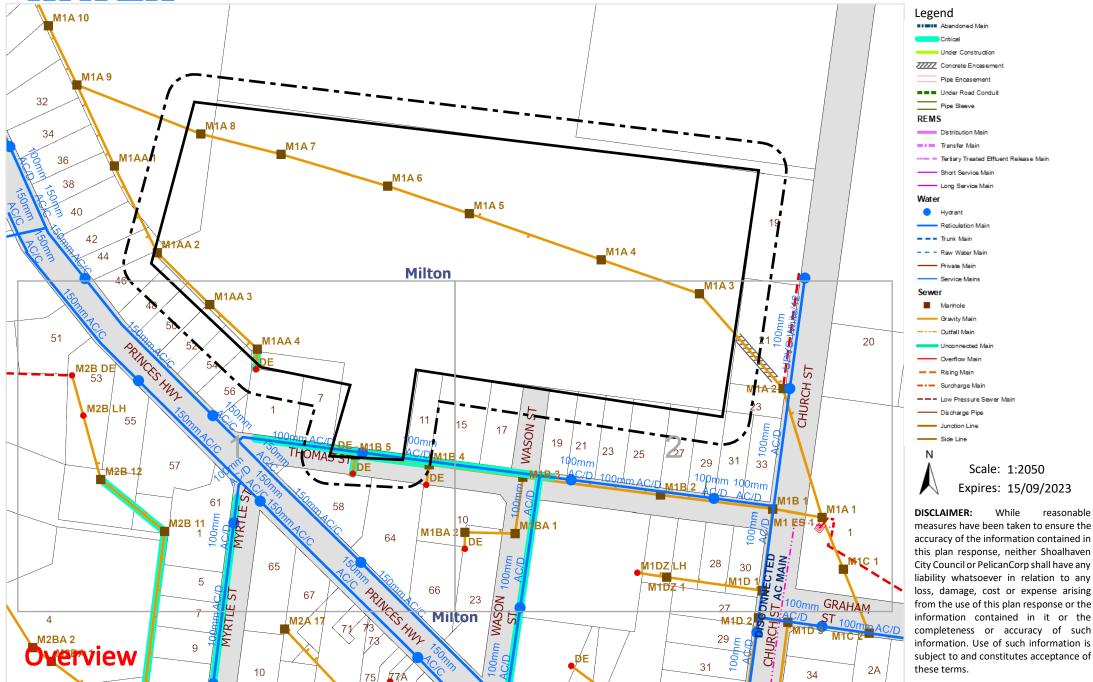
You must immediately report any damage to the **nbn**[™] network that you are/become aware of. Notification may be by telephone - 1800 626 329.



Sequence No: 228546317 Job No: 34866501



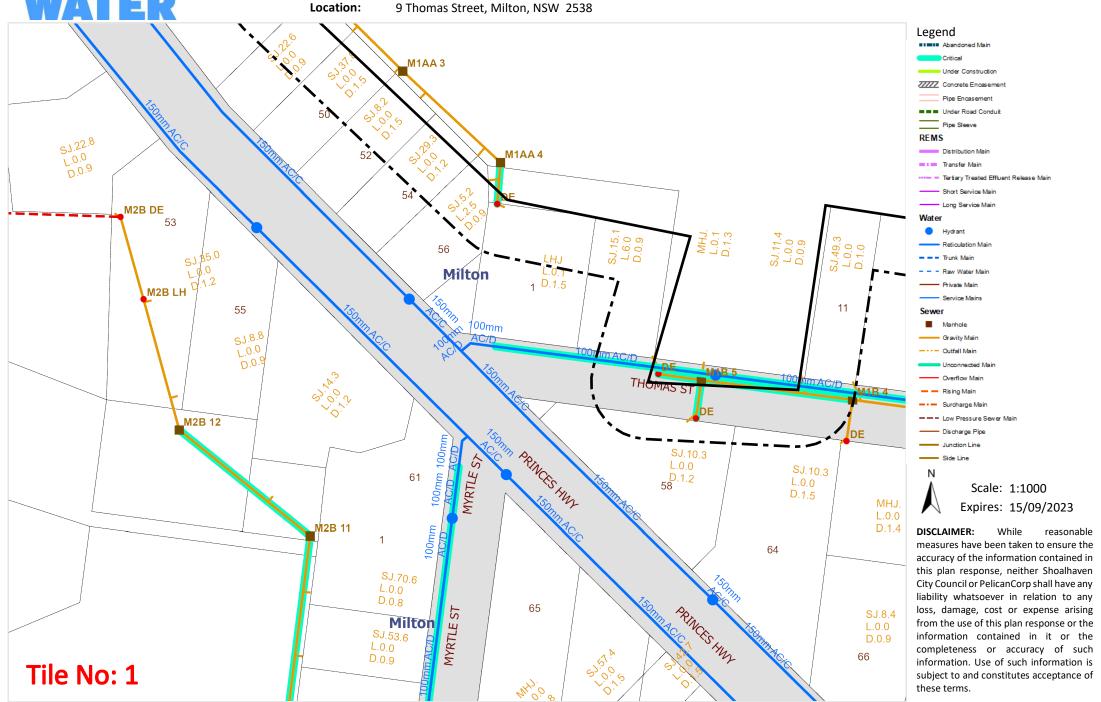




Sequence No: 228546317 Job No: 34866501

9 Thomas Street, Milton, NSW 2538



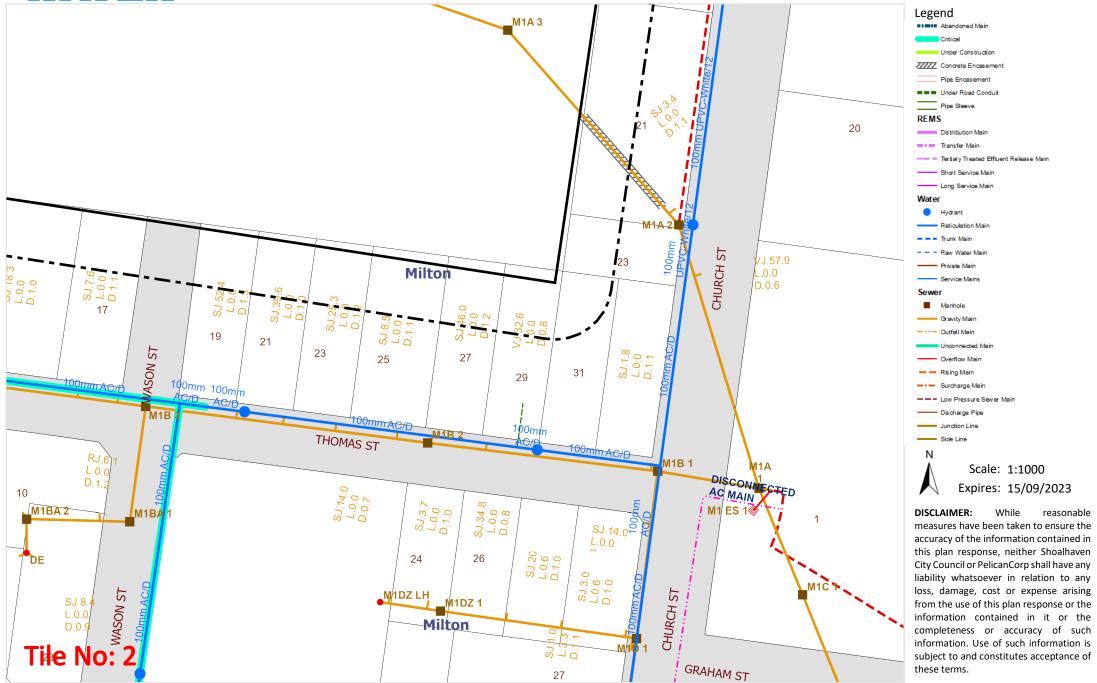




Sequence No: 228546317 **Job No:** 34866501

Location: 9 Thomas Street, Milton, NSW 2538









Email - Telstra.Plans@team.telstra.com

Planned Services - ph 1800 653 935 (AEST bus hrs only) General Enquiries

TELSTRA LIMITED A.C.N. 086 174 781

Generated On 18/08/2023 14:40:28

CAUTION: Fibre optic and/ or major network present in plot area. Please read the Duty of Care and contact Telstra Plan Services should you require any assistance.

The above plan must be viewed in conjunction with the Mains Cable Plan on the following page

WARNING

Telstra plans and location information conform to Quality Level "D" of the Australian Standard AS 5488-Classification of Subsurface Utility Information.

As such, Telstra supplied location information is indicative only. Spatial accuracy is not applicable to Quality Level D.

Refer to AS 5488 for further details. The exact position of Telstra assets can only be validated by physically exposing it.

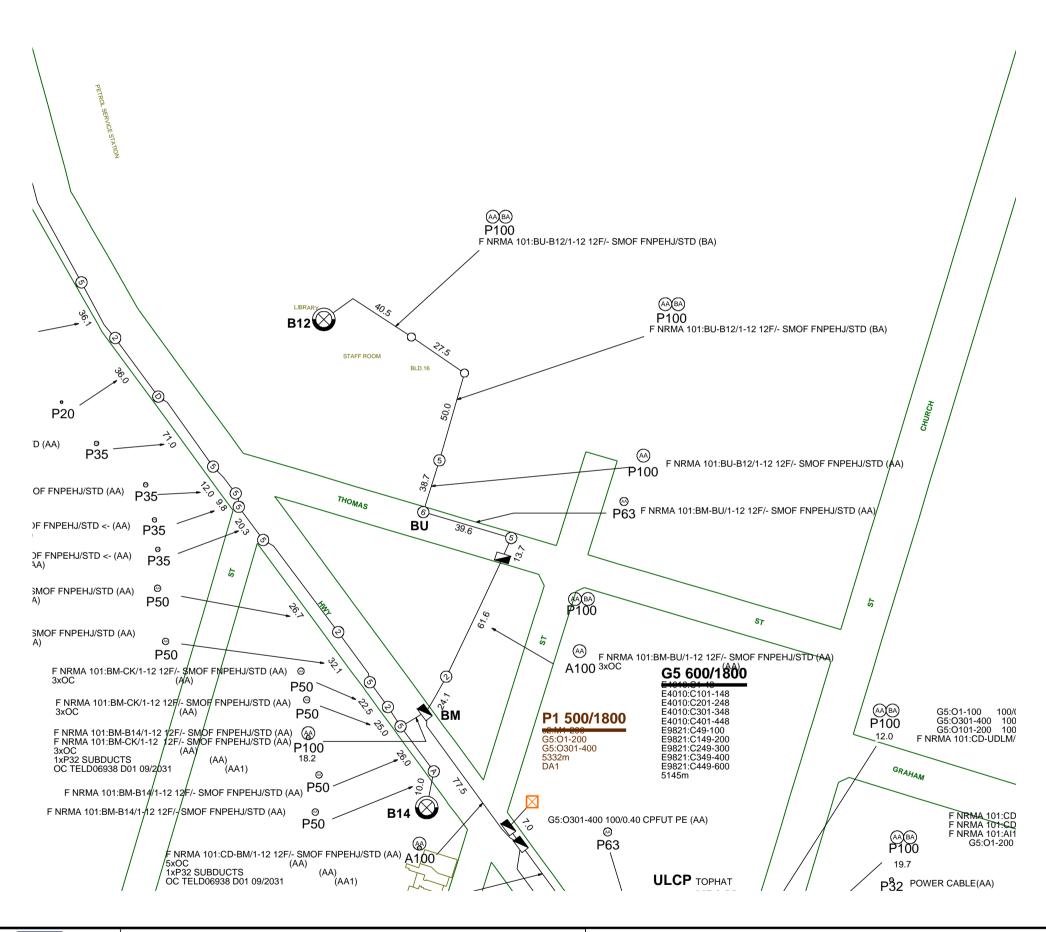
Telstra does not warrant or hold out that its plans are accurate and accepts no responsibility for any inaccuracy. Further on site investigation is required to validate the exact location of Telstra plant prior to commencing construction work.

A Certified Locating Organisation is an essential part of the process to validate the exact location of Telstra assets and to ensure the asset is protected during construction works.

See the Steps-Telstra Duty of Care that was provided in the email response.

Mains Cable Plan





T

Report Damage: https://service.telstra.com.au/customer/general/forms/report-damage-to-telstra-equipment Ph - 13 22 03

Email - Telstra.Plans@team.telstra.com

Planned Services - ph 1800 653 935 (AEST bus hrs only) General Enquiries

TELSTRA LIMITED A.C.N. 086 174 781

Generated On 18/08/2023 14:40:31

Sequence Number: 228546320

CAUTION: Fibre optic and/ or major network present in plot area. Please read the Duty of Care and contact Telstra Plan Services should you require any assistance.

WARNING

Telstra plans and location information conform to Quality Level "D" of the Australian Standard AS 5488-Classification of Subsurface Utility Information.

As such, Telstra supplied location information is indicative only. Spatial accuracy is not applicable to Quality Level D.

Refer to AS 5488 for further details. The exact position of Telstra assets can only be validated by physically exposing it.

Telstra does not warrant or hold out that its plans are accurate and accepts no responsibility for any inaccuracy.

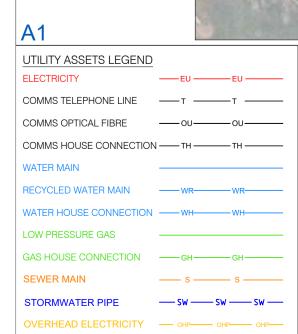
Further on site investigation is required to validate the exact location of Telstra plant prior to commencing construction work.

A Certified Locating Organisation is an essential part of the process to validate the exact location of Telstra assets and to ensure the asset is protected during construction works.

See the Steps-Telstra Duty of Care that was provided in the email response.

APPENDIX C - SHEETED DETAIL SITE SURVEY





underground utility works are often updated. Electricity cables are not necessarily enclosed in conduits and are not necessarily covered with markers, tape or other indicators of their presence. All services have been electronically traced in the field and are shown here for

diagrammatic purposes only. Depths shown are approximate only and should be verified prior to works. This plan includes information describing the location of subterranean features, which were purported to exist at the time of the survey. This information was compiled from a combination of field techniques and available data from

cooperating utility authorities. Whilst all care has been taken in the preparation of

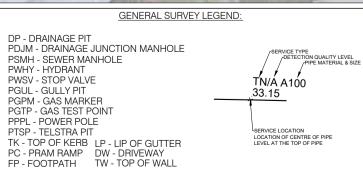
this plan of survey, we cannot guarantee that the plan is without flaw of any kind. SUBSURFACE UTILITY INFORMATION (SUI) AS5488 LOCATION CLASS Labelling utility information by a classification code allows the user of this information to understand clearly how the information was collected and then place an appropriate amount of reliance on it. Project risks related to underground utilities can then be managed. treated as indicative only.

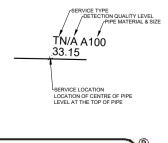
not always entirely accurate due to differing electromagnetic fields, soil conditions and multiple banks of cables affecting the locating signal.

CLASS C: Information is collected by correlating the survey of visible utility surface features such as marker plates or water hydrants and acquired Dial-Before-You-Dig plans to "draw" a string which shows the approximate position of services. This method does not usually show multiple banks of cables and does not always show three dimensional information. Electronically traced locate marks with poor scratchy signals are represented

CLASS D: Information is the most basic level of utility locations using only information as the GPR image cannot be confirmed to it's origin point. Depths on GPR scan must be

based on existing Dial-Before-You-Dig plans and by measuring boundary offsets etc. This method of utility locations should always be treated as an indication of the presence of a service only and should not be used for design. GPR scans are also represented as QL-D





SCALE 1:600 E 266758.984 N 6088996.644 ORIENTATION SS14194-AA153069

AHD ORIGIN | SS14194 RL80.856

UTILITY MAPPING IN ACCORDANCE WITH

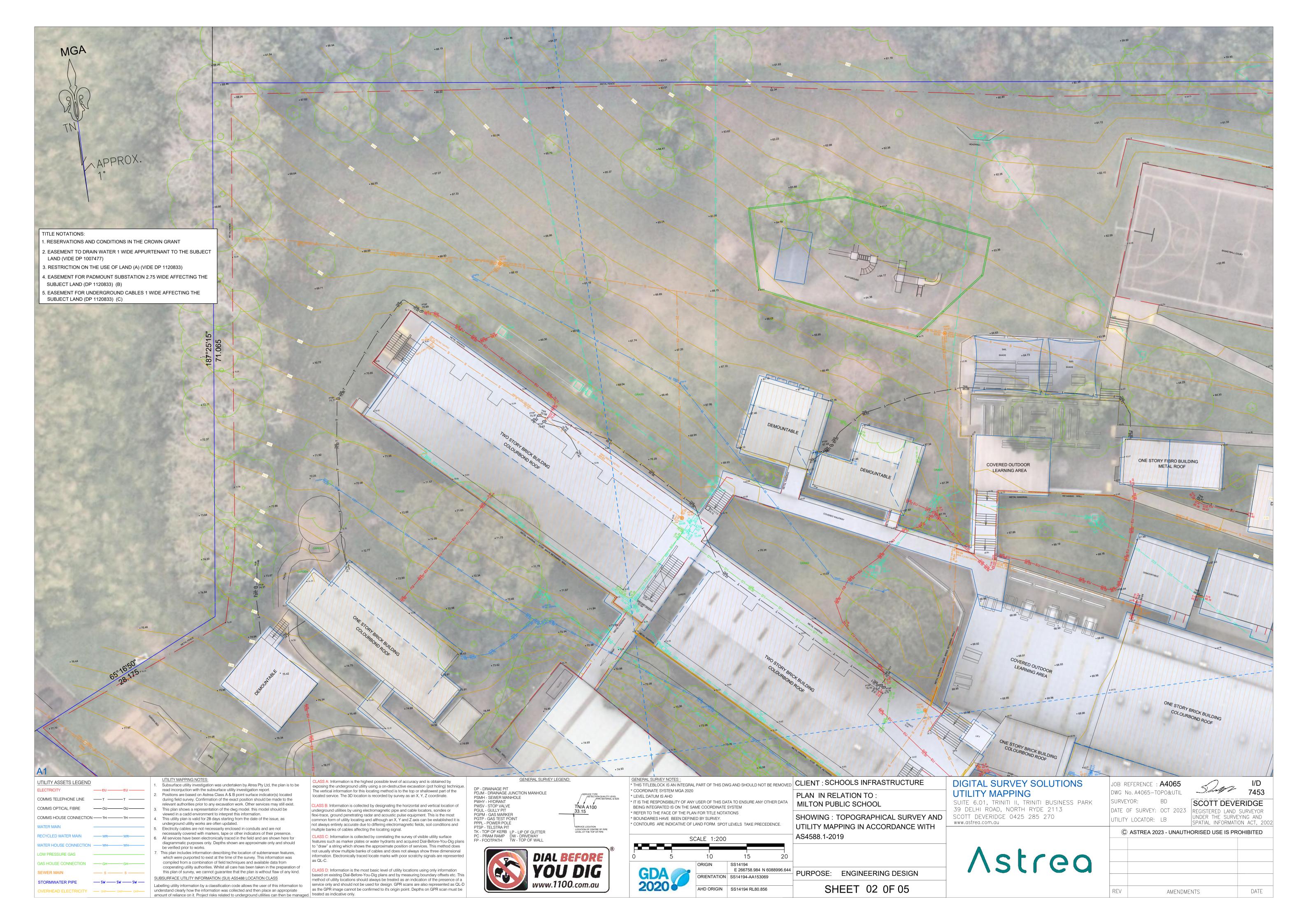
SHEET 01 0F 05

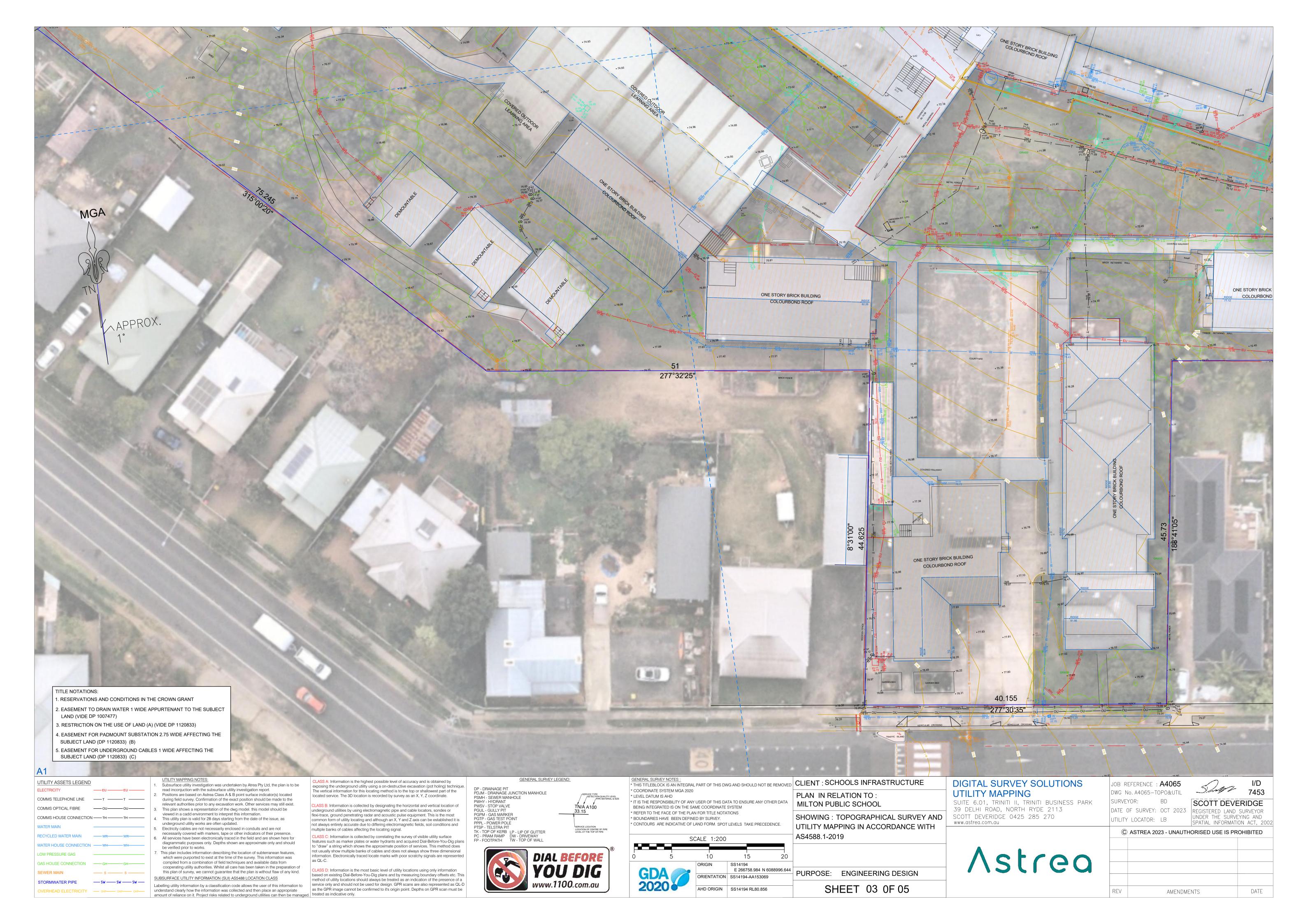
AS4588.1-2019

PURPOSE: ENGINEERING DESIGN

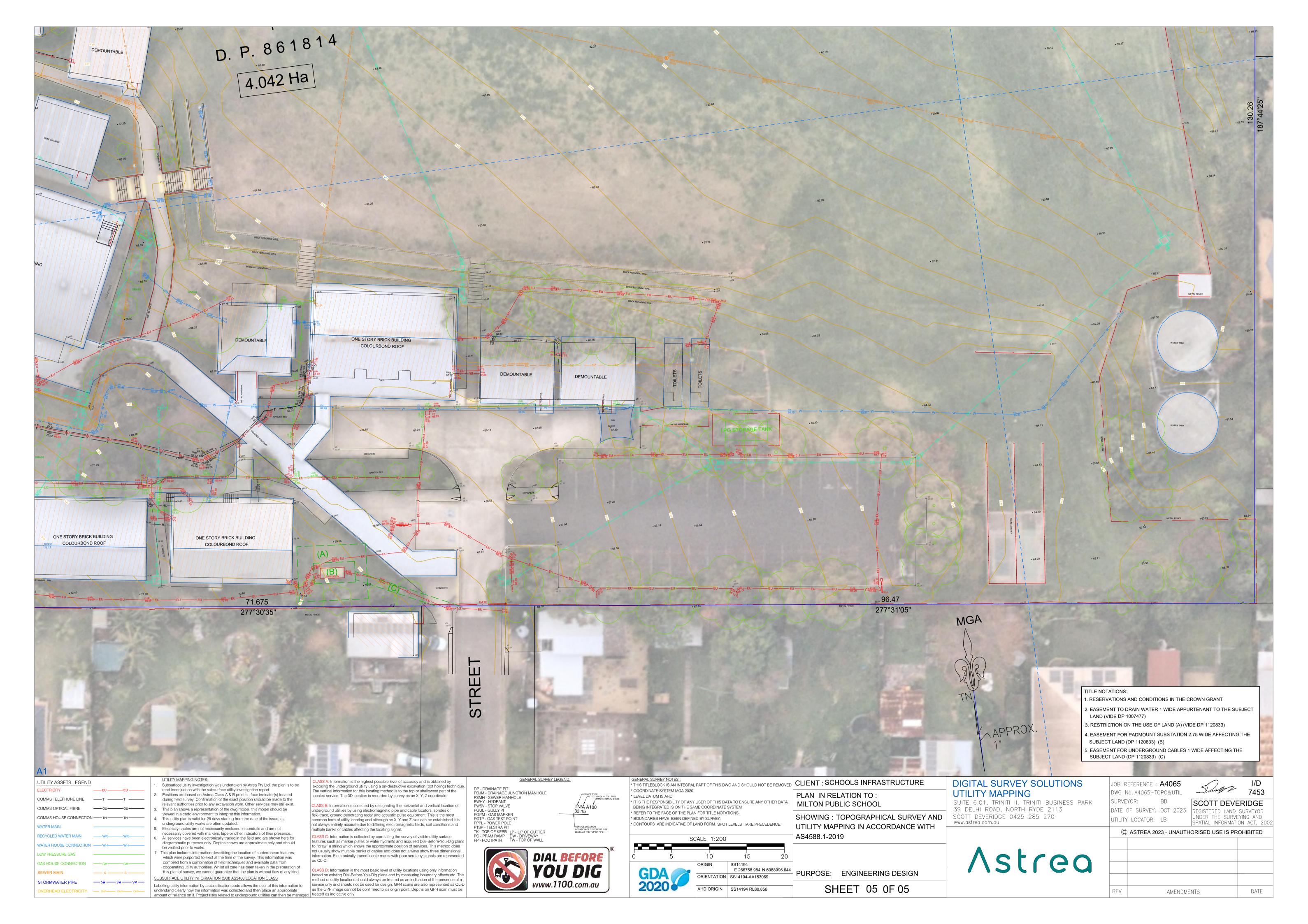
Astrea

SPATIAL INFORMATION ACT, 2003 © ASTREA 2023 - UNAUTHORISED USE IS PROHIBITED DATE REV AMENDMENTS









APPENDIX D – Underground Service Locator Field Report.		



COMPILED BY:

INVESTIGATION 25-Sep-2023

DATE:









1	S	t	(G	O
		•			



•	٠	•	
•	•	•	
•	•	٠	
•	•_	٠	

CLIENT:	Schools Infrastructure DATE: 25-Sep-2023		25-Sep-2023
SITE CONTACT:	Glenn Fransis		
EMAIL: Glenn.francis@det.nsw.edu.au			
WORK LOCATION:	Milton Public School		

INVESTIGATION BY:	LB		DBYD REF. NO:	34866501
SITE SPECIFIC PLANS:	NA		DBYD ENQUIRY DATE:	18-Aug-2023
SWMS NO:	COMPLETED: YES	NO		
CLIENT SITE REVIEW:	COMPLETED: YES	NO	ASTREA SITE SUPERVISOR:	LB

LOCATING QUALITY	LOCATING QUALITY LEVELS PURSUANT TO AS5488-2019				
Quality Level A	Visualisation / Confirmation of a Service, position and depth, by non- destructive digging (NDD) methods or points of entry to pits or manholes. Recommended Quality Level prior to construction or				
QL-A	excavation.				
Quality Level B	Locating of Services using Radio Detection methods. Acceptable range of accuracy for Quality Level B is 300mm for position and 500mm in Depth.				
QL-B					
Quality Level C	Services Marked out using only surface features in the field. Such surface features include, Hydrants, Gas Markers, Pits etc. No indication of service location or depth can be attained from Quality Level C.				
QL-C					
Quality Level D QL-D	Services marked up using DBYD plans only. Offsets on plans can be used to obtain such indication of services in field but no indication of service confirmation can be given.				



SERVICE:	QUALITY LEVEL:	COMMENT:	TRACE METHOD:
TELECOMMUNICATIONS	QL-A QL-B 🗸 (QL-D	GPR EM
OPTICAL FIBRE	QL-A QL-B 🗸 (QL-C QL-D	GPR EM
ELECTRICITY	QL-A QL-B 🗸 (QL-D QL-D	GPR EM
WATER	QL-A QL-B 🗸 (QL-C QL-D	GPR EM
GAS	QL-A QL-B 🗸 (QL-D 🖊	GPR EM
SEWER	QL-A QL-B O	QL-C 🖊 QL-D 🗸	GPR EM
STORMWATER	QL-A QL-B O	QL-C 🖊 QL-D	GPR EM
UNKNOWN	QL-A QL-B C	QL-C QL-D	GPR EM

Site Notes

Inspection openings have been opened and measured. These have been connected sonically or traced using a flex rod. Some inspection lines could not be traced as plumbing features were sealed shut or trace rods became stuck in pipes.

Shoal Haven pits could not be matched to the plan, these may not exist or they may be buried, recommend using a CCTV to determine if these exist.

Plumbing features in the demountable toilets were PVC and could not be traced.



Scope of Works



Colour Legend

Telstra/Comms

Electricity

Water

Gas

Stormwater

Sewer

Unknown

Linestyle Legend

Code Legend

EU - Electricity Underground LG - Low Pressure Gas Main WM - Water Main

TN - Telstra Network
underground HG - High Pressure Gas Main RWM - Recycled Water

OU - Optic Fibre Underground SM - Sewer Main UP - Unknown Service

CN - Other Comms Network RSM - Rising Sewer Main SW - Drainage Network

Class D (not identified)

...........

Class A,B,C













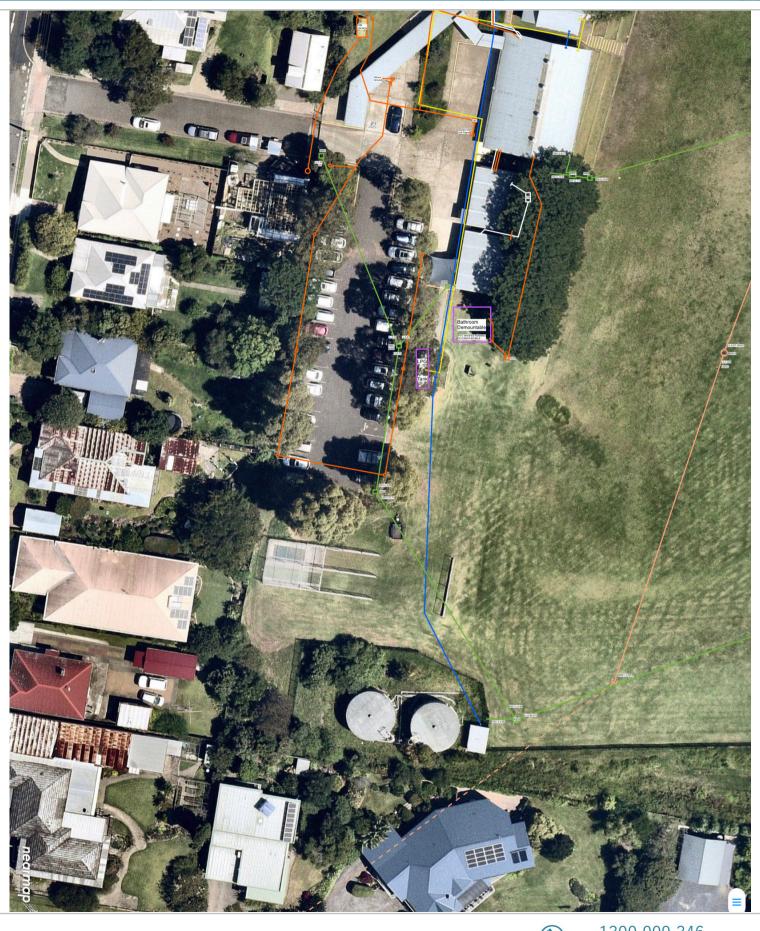






Astrea







Astrea













1300 009 346 astrea.com.au admin@astrea.com.au

Astrea







Astrea Consult Manage Deliver

• • • •

DISCLAIMERS

This plan includes information describing the location of subterranean features, which were purported to exist at the time of the survey. This information was compiled from a combination of field techniques and available data from cooperating utility authorities. Whilst all care has been taken in the preparation of this plan of survey, Astrea cannot guarantee that the plan is without flaw of any kind. Therefore, Astrea expressly disclaims all liability for errors or omissions of any kind whatsoever or from any loss, damage or other consequences, which may arise from any person relying on anything, stated on this plan. In particular, it is recommended that users satisfy themselves as to the location of subterranean features such as utilities, which may or may not be shown on this plan by deploying vacuum excavation techniques.

REPORTED BY: LB

DATE: 25-Sep-2023

SIGNATURE:







