SURVEY INFORMATION

1. THE SURVEY IS ON GROUND CO-ORDINATES.

   -THE ORIGIN OF CO-ORDINATES IS SSM 168510
   MGA CO-ORDINATES
   E 301857.168 N 6560214.408
   GDA 2020 ZONE 56
   -SOURCE OF CO-ORDINATES: SCIMS
   -DATE 24/04/2024.

2. ALL REDUCED LEVELS ARE ON AUSTRALIAN HEIGHT DATUM (A.H.D)

   -ORIGIN OF LEVELS SSM 168510, RL 396.712
   -SOURCE OF REDUCED LEVELS: SCIMS
   -DATE OF REDUCED LEVELS 24/04/2024.

3. CONTOUR INTERVAL IS 0.20m.

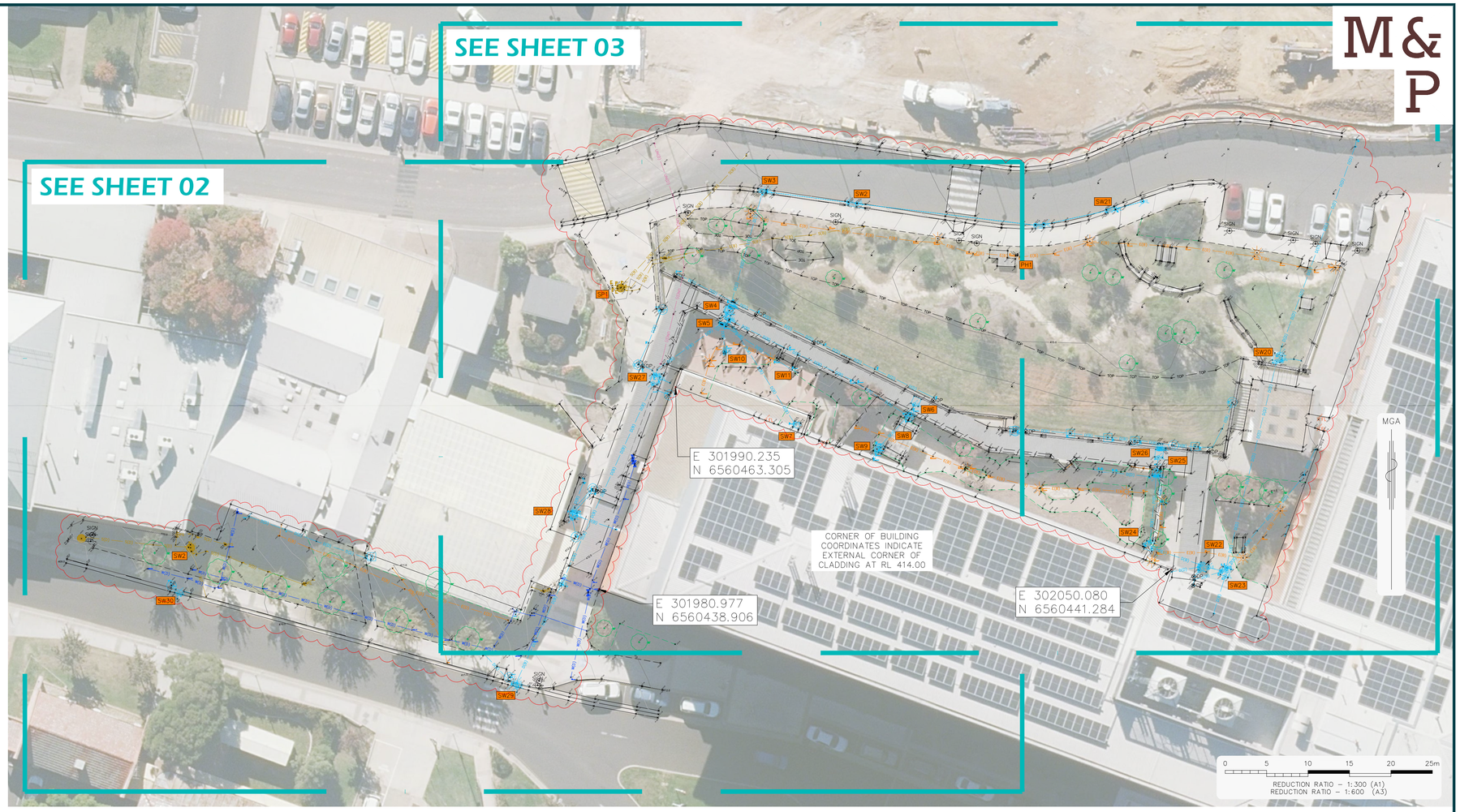
4. MGA AND ISG CO-ORDINATE SYSTEMS ARE BASED ON A MATHEMATICAL EARTH MODEL AND SUBJECT TO VARIABLE SCALE FACTORS. DISTANCES CALCULATED FROM CO-ORDINATES MAY VARY SIGNIFICANTLY FROM GROUND MEASUREMENTS. IF FURTHER CLARIFICATION IS REQUIRED CONTACT MONTEATH AND POWYS.

IMPORTANT NOTES

1. THE POSITION OF SERVICES LOCATED BY ACCREDITED SERVICES CONTRACTOR USING CONDUCTIVE TRACING TECHNIQUES ARE RECORDED ON THIS PLAN. MONTEATH & POWYS ARE UNABLE TO VERIFY THE ACCURACY OF THESE LOCATIONS AND ADVISE THE REQUIREMENT FOR POSITIVE IDENTIFICATION PRIOR TO EXCAVATION OR CONSTRUCTION IN THEIR VICINITY. ANY DEPTHS OF SERVICES FROM INDUCTIVE TRACING WHICH ARE INDICATED ON THIS PLAN ARE INDICATIVE ONLY AND SHOULD BE VERIFIED BY POTHOLING IF CRITICAL TO DESIGN.
2. INDEPENDENT ENQUIRIES FOR UP-TO-DATE SERVICE LOCATIONS THROUGH THE RELEVANT AUTHORITIES MUST BE UNDERTAKEN PRIOR TO COMMENCEMENT OF ANY WORKS/EXCAVATION. EXACT SERVICE POSITIONS SHOULD BE ESTABLISHED BY APPROPRIATE MEANS. WE RECOMMEND PROFESSIONAL SERVICE LOCATORS.
3. SURVEY COMPLETED USING LASER SCANNING METHODS.
4. LASER SCANNING IS A LINE OF SIGHT TOOL, ANY DIRT, DEBRIS OR OTHER OBSTRUCTIONS ONSITE WILL BE RECORDED IN THE POINT CLOUD AND MAY IMPACT ON THE ACCURACY OF THE FINAL MODEL.
5. CRITICAL LEVELS (E.G. FLOOR LEVELS) AND CRITICAL LOCATIONS (E.G. STRUCTURES) THAT HAVE NOT BEEN SHOWN MUST BE VERIFIED BY FURTHER SURVEY PRIOR TO FINAL DESIGN.
6. ALL TREE DIMENSIONS, HEIGHT (Ht), CANOPY (C) AND TRUNK DIAMETER (Dia) HAVE BEEN ESTIMATED. IF ACCURATE DIMENSIONS ARE REQUIRED FOR DESIGN PURPOSES, FURTHER SURVEY SHOULD BE REQUESTED.
7. CONTOURS SHOWN DEPICT THE TOPOGRAPHY. CONTOURS DO NOT REPRESENT THE EXACT LEVEL AT ANY PARTICULAR POINT, EXCEPT AT SPOT LEVELS SHOWN.
8. THIS PLAN MUST REMAIN UNALTERED AS ISSUED BY MONTEATH & POWYS. ALTERING ANY PART OF THIS PLAN DESTROYS THE INTEGRITY OF THE PLAN. ANY REVISIONS REQUESTED MUST BE ISSUED BY MONTEATH & POWYS.
9. THESE NOTES ARE AN INTEGRAL PART OF THIS PLAN. REPRODUCTION OF THIS PLAN OR OF ANY PART OF THIS PLAN, WITHOUT THESE NOTES BEING INCLUDED IN FULL, WILL RENDER THE INFORMATION SHOWN ON SUCH REPRODUCTION INVALID AND NOT SUITABLE FOR USE.

SERVICES IMPORTANT NOTES

1. CLOUD SHAPES SHOWN ARE INDICATIVE OF THE EXTENT OF THE UNDERGROUND SERVICES SURVEY.
2. SERVICES INTERNAL TO THE BUILDING HAVE NOT BEEN LOCATED IN THIS SURVEY.
3. THE POSITION OF SERVICES LOCATED BY ACCREDITED SERVICES CONTRACTOR USING CONDUCTIVE TRACING TECHNIQUES ARE RECORDED ON THIS PLAN. MONTEATH & POWYS ARE UNABLE TO VERIFY THE ACCURACY OF THESE LOCATIONS AND ADVISE THE REQUIREMENT FOR POSITIVE IDENTIFICATION PRIOR TO EXCAVATION OR CONSTRUCTION IN THEIR VICINITY.
4. THIS PLAN SHOWS A REPRESENTATION OF THE DWG MODEL. THIS MODEL SHOULD BE VIEWED IN A CAD ENVIRONMENT TO INTERPRET THE INFORMATION. ADDITIONAL ATTRIBUTES MAY EXIST IN THE DWG MODEL.
5. THIS PLAN HAS BEEN DRAWN TO SCALE, AND ANY REPRODUCTION OF THIS PLAN MUST BE DRAWN IN COLOUR AND AT THIS SCALE TO ENSURE THAT ALL RELEVANT NOTES AND ENHANCEMENTS ARE SHOWN.
6. THE SERVICES SHOWN IN THIS PLAN HAVE POINT CROSSES WITH ATTRIBUTES. THE ATTRIBUTES CONTAIN INFORMATION RELATED TO THE SERVICE BEING LOCATED. IF USING AUTOCAD, THESE ATTRIBUTES CAN BE TURNED ON OR OFF USING THE "ATTDISP" COMMAND. ALSO CLICKING ON THE POINT CROSS AND VIEWING THE PROPERTIES OF THAT POINT CROSS WILL LIST THE ATTRIBUTES.
7. SUBTERRANEAN UTILITIES SHOWN ON THIS PLAN ARE CURRENT AT THE TIME OF SURVEY ONLY.
8. NOT ALL SERVICE INFORMATION MAY BE SHOWN DUE TO UNAVAILABILITY OF SERVICE PLANS OR CURRENT INFORMATION.
9. UNLESS OTHERWISE NOTED, DEPTHS INDICATED FOR SERVICES LOCATED BY GROUND PENETRATING RADAR (GPR) METHODS ARE TO TOP OF SERVICE. FOR SERVICES LOCATED BY ELECTROMAGNETIC METHOD, DEPTHS ARE TO CENTRE OF SERVICES. EXCEPTIONS TO THIS ARE SEWER AND STORMWATER WHERE DEPTHS ARE TO INVERT OF SERVICE. ANY DEPTHS OF SERVICES FROM INDUCTIVE TRACING WHICH ARE INDICATED ON THIS PLAN ARE INDICATIVE ONLY AND SHOULD BE VERIFIED BY POTHOLING IF CRITICAL TO DESIGN. SEE "SERVICES INFORMATION" NOTES ABOUT QUALITY LABELLING.
10. ADDITIONAL SUBTERRANEAN UTILITIES MAY EXIST WHICH WERE UNABLE TO BE IDENTIFIED AND/OR TRACED AT THE TIME OF SURVEY. REDUNDANT UTILITIES MAY BE PRESENT ON SITE WHICH ARE UNABLE TO BE TRACED. POSITIVE IDENTIFICATION IS REQUIRED PRIOR TO ANY EXCAVATION OR DESIGN.
11. UNDERGROUND SERVICES CONSTRUCTED OF NONCONDUCTIVE MATERIAL MAY EXIST. IF TRACE WIRES ARE NOT PRESENT THESE UTILITIES ARE UNABLE TO BE TRACED BY ELECTROMAGNETIC TECHNIQUES.
12. THIS PLAN SHOULD NOT BE USED FOR EXCAVATION PURPOSES.
13. INDEPENDENT ENQUIRIES FOR UP-TO-DATE SERVICE LOCATIONS THROUGH THE RELEVANT AUTHORITIES MUST BE UNDERTAKEN PRIOR TO COMMENCEMENT OF ANY WORKS/EXCAVATION. EXACT SERVICE POSITIONS SHOULD BE ESTABLISHED BY APPROPRIATE MEANS. WE RECOMMEND PROFESSIONAL SERVICE LOCATORS.



SERVICES INFORMATION

SUBSURFACE UTILITY INFORMATION (SUI) AS5488. QUALITY LABELLING OF UTILITY INFORMATION IS BASED ON A CLASSIFICATION CODE WHICH 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 PROPERLY MANAGED.

QL-A: INFORMATION IS THE HIGHEST POSSIBLE LEVEL OF ACCURACY AND IS OBTAINED BY EXPOSING THE UNDERGROUND UTILITY USING A NON-DESTRUCTIVE EXCAVATION (POTHOLING) TECHNIQUE. THE VERTICAL INFORMATION FOR THIS LOCATING METHOD IS TO THE TOP OR SHALLOWEST PART OF THE LOCATED SERVICE. THE 3D LOCATION IS RECORDED BY SURVEY AS AN X, Y, Z COORDINATE.

QL-B: INFORMATION IS COLLECTED BY DESIGNATING THE HORIZONTAL AND VERTICAL LOCATION OF UNDERGROUND UTILITIES BY USING ELECTROMAGNETIC PIPE AND CABLE LOCATORS, SONDES OR FLEXI-TRACE, AND ACOUSTIC PULSE EQUIPMENT. THIS IS THE MOST COMMON FORM OF UTILITY LOCATING AND ALTHOUGH AN X, Y AND Z AXIS CAN BE ESTABLISHED IT IS NOT ALWAYS ENTIRELY ACCURATE DUE TO DIFFERING ELECTROMAGNETIC FIELDS, SOIL CONDITIONS AND MULTIPLE BANKS OF CABLES AFFECTING THE LOCATING SIGNAL.

QL-C: INFORMATION IS COLLECTED BY CORRELATING THE SURVEY OF VISIBLE UTILITY SURFACE FEATURES SUCH AS MARKER PLATES OR WATER HYDRANTS AND ACQUIRED BEFORE-YOU-DIG-AUSTRALIA (BYDA) 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 AND GROUND PENETRATING RADAR (GPR) ARE REPRESENTED AS QL-C.

QL-D: INFORMATION IS THE MOST BASIC LEVEL OF UTILITY LOCATIONS USING ONLY INFORMATION BASED ON EXISTING BEFORE-YOU-DIG-AUSTRALIA (BYDA) 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 AS THE GPR IMAGE CANNOT BE CONFIRMED TO IT'S ORIGIN POINT. DEPTHS ON GPR SCAN MUST BE TREATED AS INDICATIVE ONLY.

SERVICES LINE TYPES

- D(A) D(A) D(A) DRAINAGE LINE QUALITY LEVEL A
- D(B) D(B) D(B) DRAINAGE LINE QUALITY LEVEL B
- D(C) D(C) D(C) DRAINAGE LINE QUALITY LEVEL C
- D(D) D(D) D(D) DRAINAGE LINE QUALITY LEVEL D
- E(A) E(A) E(A) UNDERGROUND ELECTRICAL CABLE QUALITY LEVEL A
- E(B) E(B) E(B) UNDERGROUND ELECTRICAL CABLE QUALITY LEVEL B
- E(C) E(C) E(C) UNDERGROUND ELECTRICAL CABLE QUALITY LEVEL C
- E(D) E(D) E(D) UNDERGROUND ELECTRICAL CABLE QUALITY LEVEL D
- S(A) S(A) S(A) SEWER MAIN QUALITY LEVEL A
- S(B) S(B) S(B) SEWER MAIN QUALITY LEVEL B
- S(C) S(C) S(C) SEWER MAIN QUALITY LEVEL C
- S(D) S(D) S(D) SEWER MAIN QUALITY LEVEL D
- W(A) W(A) W(A) WATER MAIN QUALITY LEVEL A
- W(B) W(B) W(B) WATER MAIN QUALITY LEVEL B
- W(C) W(C) W(C) WATER MAIN QUALITY LEVEL C
- W(D) W(D) W(D) WATER MAIN QUALITY LEVEL D
- UN(A) UN(A) UN(A) UNKNOWN SERVICE QUALITY LEVEL A
- UN(B) UN(B) UN(B) UNKNOWN SERVICE QUALITY LEVEL B
- UN(C) UN(C) UN(C) UNKNOWN SERVICE QUALITY LEVEL C
- UN(D) UN(D) UN(D) UNKNOWN SERVICE QUALITY LEVEL D

- BUILDING
- BUILDING AWNING
- PATH
- CONCRETE
- RETAINING WALL
- STEPS
- HANDRAIL
- SEAT
- FENCE
- GUTTER LIP
- KERB GUTTER
- TOP OF KERB
- BOTTOM OF BANK
- TOP OF BANK
- CONTOUR - GROUND SURFACE - MAJOR
- CONTOUR - GROUND SURFACE - MINOR
- EXTENT OF GARDEN
- SCOPE OF WORKS

SERVICES SYMBOLS

- IL OL / IL OL — INV-/OBVERT LEVEL
- D — DRAINAGE PIT
- IPS — DRAINAGE INSPECTION POINT
- IPS — SEWER INSPECTION POINT
- SEWER MANHOLE COVER
- LIGHT POLE
- STOP VALVE
- PH1 — ELECTRICAL POTHOLE
- SP1 — SEWER PIT
- SW1 — STORMWATER PIT
- SIGN — SIGN
- DP — DOWNPIPE
- UTL — UNABLE TO LIFT
- EOT — END OF TRACE

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REVISIONS

No	REVISION	SVY	DFT	CHK	DATE
1	ISSUE TO CLIENT	PAW	SJT	PAW	13.08.24

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ISO 14001 Environmental Management EMS 709938
ISO 45001 Occupational Health and Safety Management OHS 709944
NEWCASTLE SYDNEY GUNNEDAH MUSWELLBROOK

Surveyed	Drafted	Checked
PAW	SJT	PAW

REGISTERED SURVEYOR
@A1 : 1:300
@A3 : 1:600
DO NOT SCALE

Original Size: A1

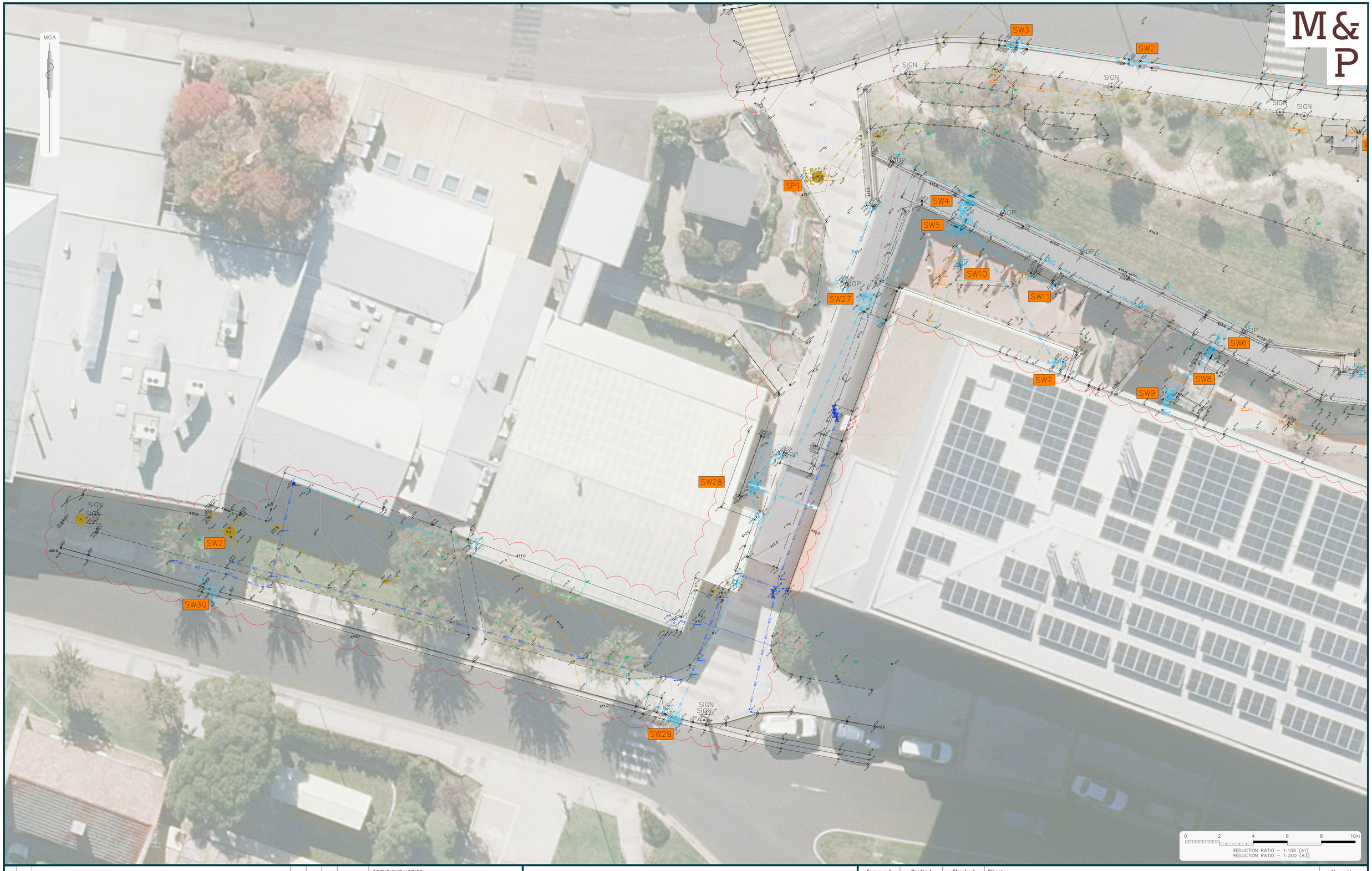
Client: HEALTH INFRASTRUCTURE

Title: DETAIL SURVEY
UTILITY + SUBTERRANEAN INVESTIGATON
TAMWORTH HOSPITAL

CAD File: 240148D_01 | Ref No: 24/0148 | Date: 13/08/2024

Sheet No. 1/3

Revision 1



REVISIONS

No	REVISION				
1	ISSUE TO CLIENT	PAW	SJT	PAW	13.08.24
No	REVISION	SVY	DFT	CHK	DATE

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Surveyed	Drafted	Checked
PAW	SJT	PAW

REGISTERED SURVEYOR

@A1 : 1:150
@A3 : 1:300

DO NOT SCALE

Original Size: A1

Client: HEALTH INFRASTRUCTURE

Title: DETAIL SURVEY
UTILITY + SUBTERRANEAN INVESTIGATON
TAMWORTH HOSPITAL

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Sheet No. 2 / 3

Revision 1

REVISIONS

No	REVISION	SVY	DFT	CHK	DATE
1	ISSUE TO CLIENT	PAW	SJT	PAW	13.08.24

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Sheet No. 3 / 3

Revision 1