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PLANNING PROJECT MANAGEMENT SURVEYING 3D SPATIAL

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NEWCASTLE SYDNEY GUNNEDAH MUSWELLBROOK

Surveyed LT	Drafted TP	Checked MR	Client  TSA MANAGEMENT	Sheet No.  1/5
REGISTERED SURVEYOR @A1 : 1:1000_1 @A3 : 1:2000			Title  DETAIL SURVEY AND SERVICES PLAN OF RYDE HOSPITAL DENISTONE ROAD, EASTWOOD	Revision  4
DO NOT SCALE A1			CAD File: 210247C_05 Ref No: 21/0247 Date: 09/07/2021	



#### IMPORTANT NOTES

- THIS PLAN INCLUDES A GROUND TIN WHICH HAS BEEN GENERATED USING LIDAR PROVIDED BY NSW SPATIAL SERVICES. DUE TO THE THICK VEGETATION IN THIS AREA, MONTEATH & POWYS CANNOT VERIFY THE ACCURACY OF THIS TIN SURFACE. THIS SURFACE IS TO BE USED AS AN INDICATIVE MODEL ONLY, AND IS NOT SUITABLE FOR DESIGN.
- THE LIDAR GROUND TIN IN THE BLUEGUM HIGH FOREST AREA MAY CONTAIN SIGNIFICANT HEIGHT ERRORS, THIS HAS NOT BEEN SURVEYED BY MONTEATH & POWYS.
- UNDERGROUND SERVICES HAVE BEEN SURVEYED AT GROUND LEVEL. DEPTH SHOWN DENOTES APPROXIMATE DEPTH TO SERVICE (SEE "SERVICES IMPORTANT NOTES" BELOW).
- ONLY VISIBLE SERVICES HAVE BEEN LOCATED BY SURVEY. THE POSITION OF THE UNDERGROUND SERVICES IS BASED ON ELECTROMAGNETIC LOCATION METHODS AND IS APPROXIMATE ONLY. MONTEATH AND POWYS ADVISE THE REQUIREMENT FOR POSITIVE IDENTIFICATION PRIOR TO EXCAVATION OR CONSTRUCTION IN THEIR VICINITY.
- NOT ALL SERVICE INFORMATION MAY BE SHOWN DUE TO UNAVAILABILITY OF SERVICE PLANS OR CURRENT INFORMATION.
- INDEPENDENT INQUIRIES 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.
- SERVICE DEPTHS AND INVERT LEVELS ARE SHOWN IN CAD PLAN WITHIN THE LAYER "SERVICE DEPTHS".
- SOME SERVICES SHOWN ARE FROM DBYD INFORMATION. THE POSITION OF THE UNDERGROUND SERVICES HAS NOT BEEN VERIFIED AND HAS BEEN SCALED FROM THE RELEVANT AUTHORITY'S SERVICES PLANS USING THE "DIAL BEFORE YOU DIG" SERVICE. SEARCH DATE: - 10/07/2021. A PREFIX OF "DBYD\_" IS USED ON LAYERS IN THE CAD FILE TO DENOTE THIS INFORMATION.
- THE BOUNDARY DIMENSIONS SHOWN ARE BASED ON DP1183279 DATED 03/12/2014. FURTHER SURVEY INVESTIGATION IS RECOMMENDED PRIOR TO DESIGN OR WORKS CLOSE TO OR ON THE BOUNDARY, OR PROSCRIBED SET BACKS.
- CRITICAL LEVELS (EG FLOOR LEVELS) AND CRITICAL LOCATIONS (EG STRUCTURES) MUST BE VERIFIED BY FURTHER SURVEY PRIOR TO FINAL DESIGN.
- NO EXCAVATIONS HAVE BEEN MADE TO DETERMINE THE EXTENT TO WHICH ANY SUBJECT WALLS, FOUNDATIONS OR FOOTINGS MAY ENCROACH UPON ADJOINING LAND.
- NO EXCAVATIONS HAVE BEEN MADE TO DETERMINE THE EXTENT TO WHICH ANY ADJOINING WALLS, FOUNDATIONS OR FOOTINGS MAY ENCROACH UPON SUBJECT LAND.
- ALL TREE DIMENSIONS (SPREAD) HAVE BEEN ESTIMATED. IF ACCURATE DIMENSIONS ARE REQUIRED FOR DESIGN PURPOSES, FURTHER SURVEY SHOULD BE REQUESTED.
- CONTOURS SHOWN DEPICT THE TOPOGRAPHY. CONTOURS DO NOT REPRESENT THE EXACT LEVEL AT ANY PARTICULAR POINT, EXCEPT AT SPOT LEVELS SHOWN.
- SURVEY COMPLETED USING LASER SCANNING METHODS, LASER SCANNING IS A LINE OF SIGHT TOOL, ANY OBSTRUCTIONS ONSITE WILL APPEAR WITHIN THE POINT CLOUD.
- MONTEATH & POWYS CAN UNDERTAKE ADDITIONAL DATA EXTRACTION, DETAIL SURVEY, OR 3D MODELLING BASED ON THE POINT CLOUD AT ANY TIME UPON REQUEST.
- THIS PLAN MUST REMAIN UNALTERED AS ISSUED BY MONTEATH AND POWYS. ALTERING ANY PART OF THIS PLAN DESTROYS THE INTEGRITY OF THE PLAN. ANY REVISIONS REQUESTED MUST BE ISSUED BY MONTEATH AND POWYS.
- 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

- PITS NOTED "INACCESSIBLE" EITHER COULDN'T BE OPENED, WERE BLOCKED OR COULD NOT BE ACCESSED.
- SERVICE NOTATION DENOTES:  
UTT - UNABLE TO TRACE  
EOT - END OF TRACE  
UTL - UNABLE TO LIFT
- SERVICES WITH THE NOTATION A, B, C OR D ALL REFER TO THE QUALITY LEVELS AS NOTED IN NOTE 4.
- SUBSURFACE UTILITY INFORMATION (SUI) AS5488. CLASS LABELLING OF UTILITY INFORMATION IS BASED ON 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 PROPERLY MANAGED.

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, GROUND PENETRATING RADAR 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 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 AS QL-C.

QL-D: INFORMATION IS THE MOST BASIC LEVEL OF UTILITY LOCATIONS USING ONLY INFORMATION 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 AS THE GPR IMAGE CANNOT BE CONFIRMED TO IT'S ORIGIN POINT. DEPTHS ON GPR SCAN MUST BE TREATED AS INDICATIVE ONLY.





MGA

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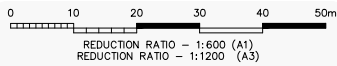


LINE TYPES

- F000 — F000 — F000 — DENOTES COMMUNICATIONS OPTIC FIBRE (CLASS B)
- T00 — T00 — T00 — DENOTES COMMUNICATIONS TELEPHONE LINE (CLASS B)
- T00 — T00 — T00 — DENOTES COMMUNICATIONS TELEPHONE LINE (CLASS D)
- D00 — D00 — D00 — DENOTES DRAINAGE PIPE (CLASS B)
- D00 — D00 — D00 — DENOTES DRAINAGE PIPE (CLASS C)
- D00 — D00 — D00 — DENOTES DRAINAGE PIPE (CLASS D)
- E00 — E00 — E00 — DENOTES ELECTRICITY UNDERGROUND (CLASS B)
- E00 — E00 — E00 — DENOTES ELECTRICITY UNDERGROUND (CLASS C)
- E00 — E00 — E00 — DENOTES ELECTRICITY UNDERGROUND (CLASS D)
- G00 — G00 — G00 — DENOTES GAS MAIN LOW PRESSURE (CLASS B)
- S00 — S00 — S00 — DENOTES SEWER MAIN (CLASS B)
- S00 — S00 — S00 — DENOTES SEWER MAIN (CLASS C)
- S00 — S00 — S00 — DENOTES SEWER MAIN (CLASS D)
- W00 — W00 — W00 — DENOTES WATER MAIN (CLASS B)
- E — E — E — DENOTES UNDERGROUND ELECTRICITY (DBYD)
- G — G — G — DENOTES GAS MAIN (DBYD)
- D — D — D — DENOTES DRAINAGE (DBYD)
- T — T — T — DENOTES TELECOMMUNICATIONS CABLE (DBYD)
- FO — FO — FO — DENOTES FIBRE OPTIC CABLE (DBYD)
- S — S — S — DENOTES SEWER MAIN (DBYD)
- W — W — W — DENOTES WATER MAIN (DBYD)
- DENOTES INACCESSIBLE AREA (DAYCARE CENTRE)

SYMBOLGY

- COMMUNICATION PIT
- STORM WATER MAN HOLE
- DOWN PIPE
- ELECTRICAL PILLAR
- ★ LIGHT POLE
- ★ ELECTRICAL POWER POLE W/LIGHT
- ★ ELECTRICAL POWER POLE
- GAS METER
- SEWER INSPECTION POINT
- SEWER MAN HOLE
- WATER HYDRANT
- WATER METER
- STOP VALVE
- WATER TAP



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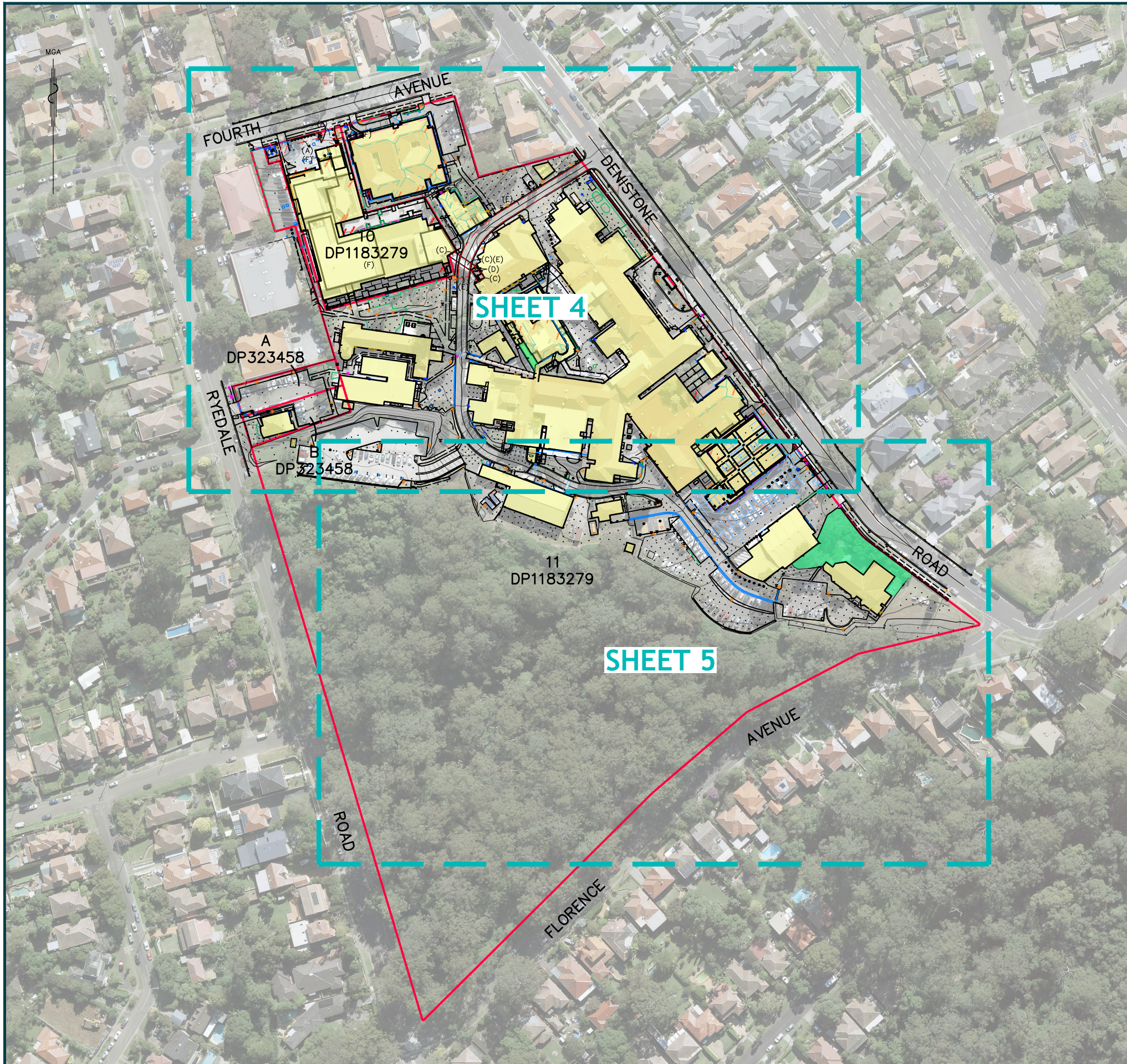
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LT	TP	MR				2 / 5
REGISTERED SURVEYOR			Title			Revision
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TSA MANAGEMENT

DETAIL SURVEY AND SERVICES PLAN OF  
RYDE HOSPITAL  
DENISTONE ROAD, EASTWOOD





SYMBOLOLOGY

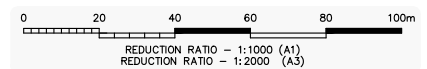
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- WATER HYDRANT
- STOP VALVE
- WATER TAP
- COMMUNICATION PIT
- SEWER INSPECTION POINT
- SEWER VENT
- DOWN PIPE
- ROAD SIGN
- BOLLARD
- CLOTHES LINE

LINE TYPES

- DENOTES DISH DRAIN
- DENOTES FENCING
- DENOTES RETAINING WALL
- DENOTES EDGE OF CONCRETE
- DENOTES TOP OF BANK
- DENOTES TOE OF BANK
- DENOTES CENTRELINE OF BITUMEN
- DENOTES EDGE OF BITUMEN
- DENOTES EDGE OF GRAVEL
- DENOTES EDGE OF GARDEN
- DENOTES INACCESSIBLE AREA (DAYCARE CENTRE)

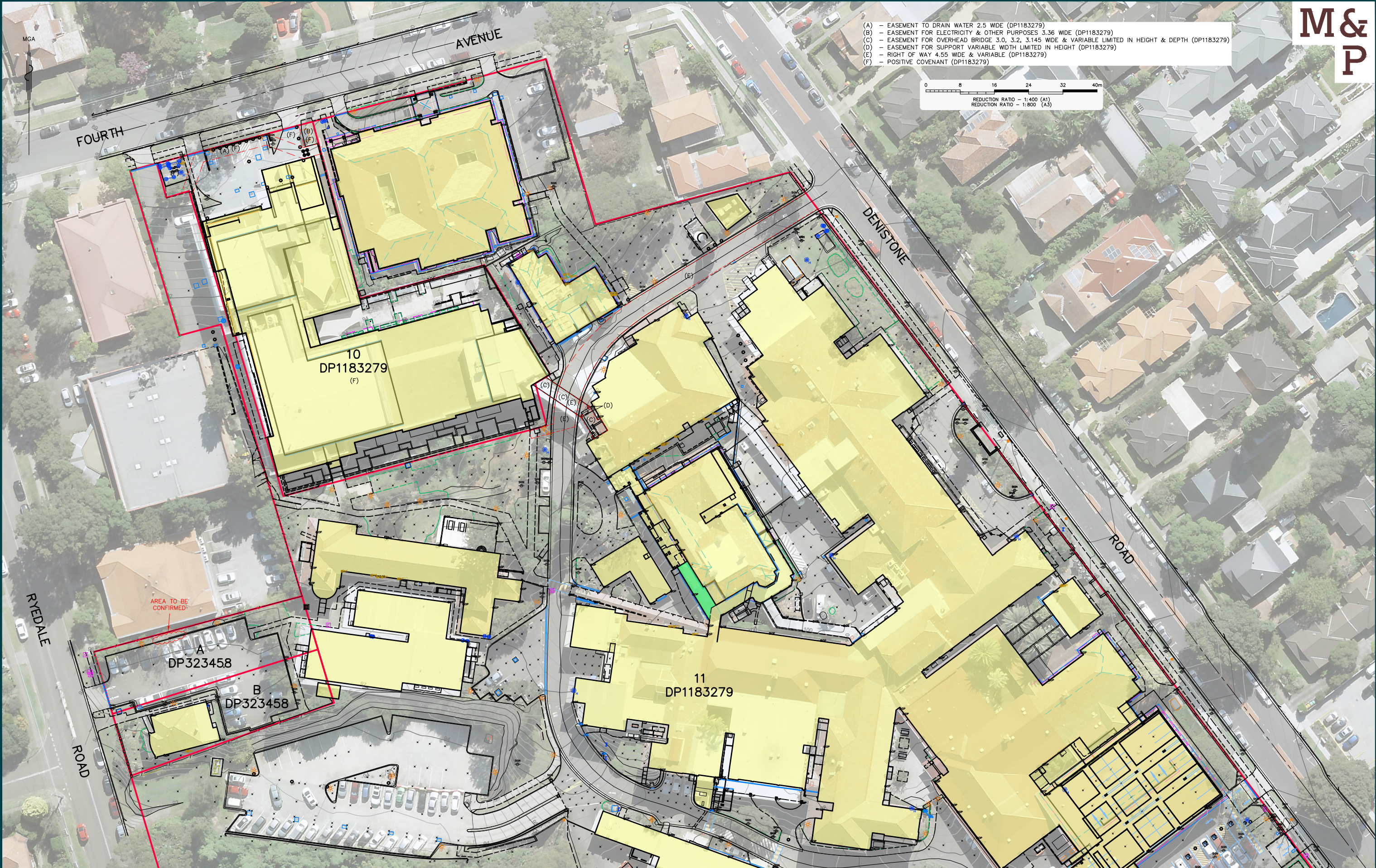


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