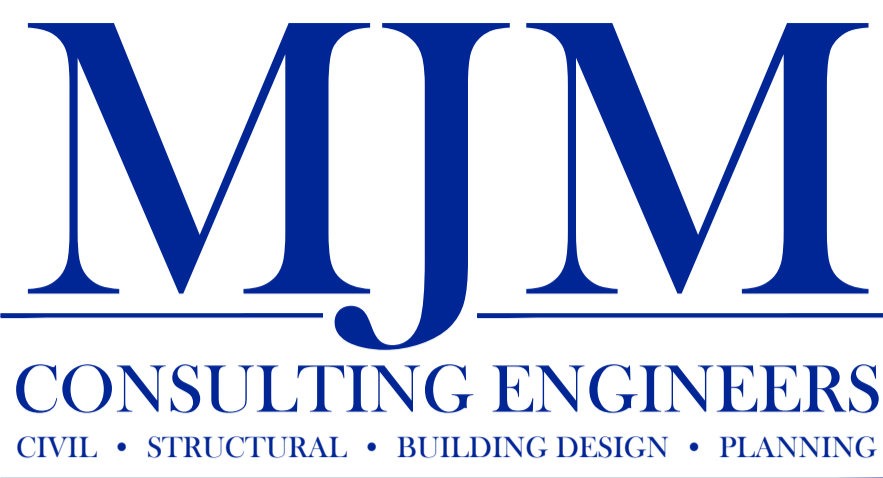


# PROPOSED SUBDIVISION

1812A MALLINSON ROAD  
GRIFFITH, NSW, 2680

POWEREX GROUP



Wagga Wagga  
Level 1, 37 Johnston Street  
(02) 6921 8333  
admin@mjm-solutions.com  
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Griffith  
Level 1, 130 Banna Avenue  
(02) 6962 9922

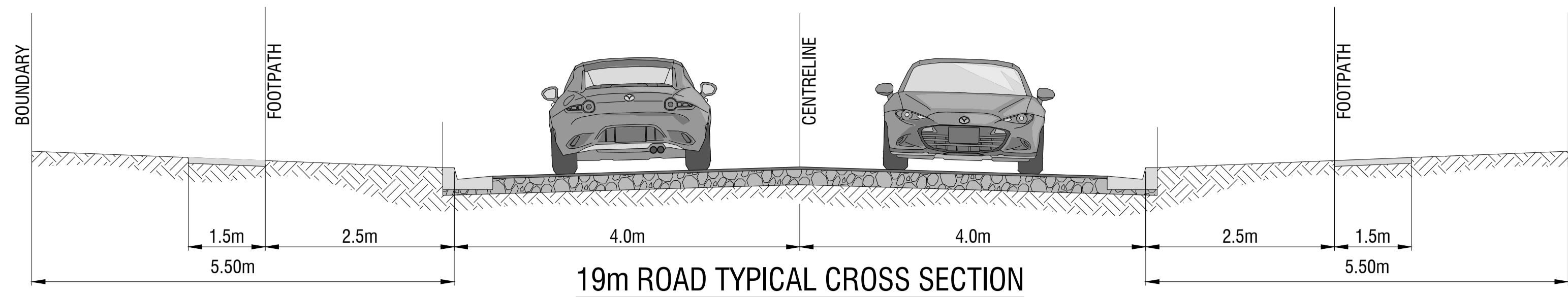
Bowtort Pty. Ltd. trading as MJM Consulting Engineers  
ABN 16 107 158 350 ACN 107 158 350

ISSUED FOR APPROVAL

INITIAL: JS      DATE: 8/11/2024  
ROLE: CIVIL DRAFTSPERSON

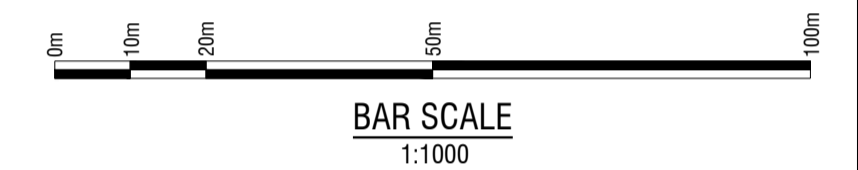
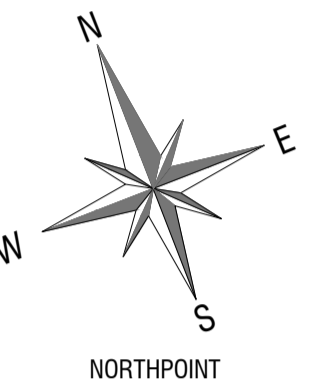
DRAWING REGISTER			
JOB NO & SHEET NO.	SUBJECT 1	SUBJECT 2	REVISION NO.
240270 - C1	SITE PLAN	----	B
240270 - C2	DRAINAGE PLAN	----	A
240270 - C3	CATCHMENT PLAN	----	A
240270 - C4	TREE PLAN	----	A
240270 - C5	WATER PLAN	----	A
240270 - C6	SEWER PLAN	----	A





#### LEGEND:

- EASEMENT
- PROPOSED STORMWATER LINE
- EXISTING STORMWATER LINE
- BUILDING ENVELOPE
- 1.5m FOOTPATH
- 2.5m FOOTPATH BY OTHERS



No.	DATE	AMENDMENTS	BY
B	8/11/2024	ISSUED FOR DA	JS
A	21/10/2024	SET ISSUED	CZ
-	-	-	-
-	-	-	-

Filename: C\_240270\_Plan\_04.dwg

PROJECT  
**PROPOSED SUBDIVISION**  
-  
**1812A MALLINSON ROAD**  
**GRIFFITH, NSW, 2680**

SHEET SUBJECT  
**SITE PLAN**

CLIENT  
**POWEREX GROUP**

PROJECT NO.	SHEET NO.	ISSUE	DATE
240270	C1	B	OCT 2024
COUNCIL REF.	SCALE		
-----	1:1000 (A1) 1:2000 (A3)		
DESIGNED	CHECKED	DRAWN	CHECKED
MM		JS	

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CONSULTING ENGINEERS  
CIVIL • STRUCTURAL • BUILDING DESIGN • PLANNING

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**ISSUED FOR APPROVAL**  
INITIAL: JS      DATE: 8/11/2024  
ROLE: CIVIL DRAFTSPERSON

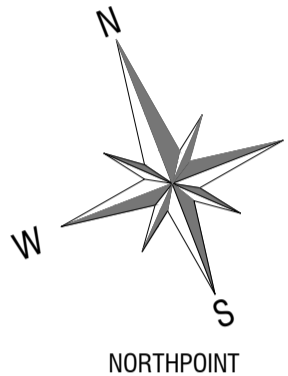
STORMWATER AND DRAINAGE NOTES:

1. THE FOLLOWING NOTES SHALL BE READ IN CONJUNCTION WITH:
- GENERAL NOTES AND DISCLAIMERS FOR THE PROJECT,
  - ROADWORK NOTES FOR THE PROJECT, AND
  - SPECIFICATIONS FOR THE PROJECT (IF ANY).
2. STORMWATER DRAINAGE PIPES UP TO 3000 SHALL BE UPVC PIPES CLASS SN8 TO AS 1260, UNLESS NOTED OTHERWISE.
3. STORMWATER DRAINAGE PIPES GREATER THAN 3000 SHALL BE RC-RRJ OR FRC PIPES CLASS2 TO AS 1342, UNLESS NOTED OTHERWISE.
4. PIPE BEDDING, HAUNCH AND BACKFILL SHALL BE AS SHOWN ON THE DETAILS.
5. SUBSOIL DRAINAGE PIPES SHALL BE SLOTTED PIPE AND FILTER SOCK CLASS 1000 TO AS 2439.1 LAID AT PREFERABLE MINIMUM GRADE 1 IN 100 OR ABSOLUTE MINIMUM 1 IN 200 WHERE LIMITED BY OUTLET LEVELS.
6. OUTLET LOCATIONS AND DETAILS ARE TO BE CONFIRMED ON SITE BY THE MANAGING CONTRACTOR PRIOR TO THE COMMENCEMENT OF STORMWATER DRAINAGE CONSTRUCTION.
7. TRENCHES EXCAVATIONS FOR THE DRAINAGE SHALL COMPLY WITH WORKPLACE HEALTH AND SAFETY REQUIREMENTS.
8. CONCRETE PIPES SHALL BE BEDDED IN ACCORDANCE WITH AS 3725 - DESIGN FOR INSTALLATION OF BURIED CONCRETE PIPES.
9. FLEXIBLE PIPELINES (STORMPRO & SEWERPRO PIPES OR SIMILAR) SHALL BE INSTALLED IN ACCORDANCE WITH AS/NZS 2566.2 - BURIED FLEXIBLE PIPELINES: PART 2, INSTALLATION.
10. PIPES EQUAL TO OR SMALLER THAN 9000 SHALL BE SPIGOT AND SOCKET PIPES WITH RUBBER RING JOINT.
11. SPOIL MATERIAL GENERATED FROM TRENCH EXCAVATION SHALL BE DISPOSED OF ON SITE IN ACCORDANCE WITH THE ACID SULPHATE SOILS MANAGEMENT PLAN.
12. MAINTAIN AND RETAIN EXISTING SERVICES.
13. ALL PROPOSED STORMWATER WORKS IN DESIGNED IN ACCORDANCE WITH :
- AUSTRALIAN RAINFALL AND RUNOFF (1987 EDITION) VOLUMES 1 AND 2.
  - AS 3500 NATIONAL PLUMBING CODE PART 3 - STORMWATER DRAINAGE.

14. CONTRACTOR TO REFER TO ARCHITECTURAL PLANS FOR ALL BUILDING DOWN PIPE LOCATIONS AND ALLOW FOR CONNECTION FROM DOWN PIPE TO IN-GROUND STORMWATER NETWORK.
15. THE MAJORITY OF MATERIAL EXCAVATED FROM PROPOSED TRENCHES SHOULD BE SUITABLE FOR REUSE AS TRENCH BACKFILL MATERIAL APART FROM ANY OVERSIZE MATERIAL. SUITABLE MATERIAL FOR BACKFILLING SHOULD GENERALLY HAVE A MAXIMUM PARTICLE SIZE NOT EXCEEDING 75MM. OVERSIZE MATERIAL IS TO BE CRUSHED TO A PARTICLE SIZE <75MM PRIOR TO REUSE AS BACKFILL MATERIAL.
16. ALL STORMWATER TRENCHES SHALL BE BACKFILLED IN LAYERS OF LOOSE THICKNESS APPROPRIATE TO THE TYPE OF COMPACTION EQUIPMENT BEING USED AND NOT GREATER THAN 200MM. BACKFILLING IS TO BE COMPACTED TO 98% OF STANDARD MAXIMUM DRY DENSITY (SMD) AT OPTIMUM MOISTURE CONTENT +/- 2% FOR GENERAL FILL AREAS OR 100% OF SMD FOR DETENTION POND BANKS.
17. COMPACTION TESTING SHOULD BE CARRIED OUT AT THE SPECIFIED FREQUENCY BY A N.A.T.A REGISTERED GEOTECHNICAL TESTING AUTHORITY AT THE CONTRACTORS COST. THE CONTRACTOR SHALL SUBMIT DETAILS OF ALL TESTING TO THE ENGINEER PROGRESSIVELY THROUGH THE WORKS AND NOTIFY HIM OF ANY NON-CONFORMANCES WHICH MUST BE RECTIFIED AS DIRECTED BY THE ENGINEER.
- 18.SWALE DRAINS SHALL BE GRADED EVENLY BETWEEN INVERT LEVELS PROVIDED.
19. ALL DRAINAGE STRUCTURES SHALL HAVE HALF HEIGHT BENCHING.
20. ALL PIPES STUBS SHALL BE FITTED WITH HARDBOARD PLANKS TO SEAL OFF THE END OF PIPE BEING BACKFILLED.
21. THE SIDES OF ALL PIPE TRENCH EXCAVATIONS DEEPER THAN 1.5 M SHALL BE FULLY SUPPORTED AT ALL TIMES BY TRENCH SHEETING OR TIMBER BOARDS.
22. PIPE LENGTHS GIVEN ON THE PLAN ARE APPROXIMATE TO THE NEAREST 0.5M AND ARE MEASURED FROM CENTERLINE OF PITS.
23. WHERE MANHOLES & PITS ARE IN CLOSE PROXIMITY TO ONE ANOTHER, FINAL LID LEVEL & SLOPE TO BE DETERMINED ON SITE BY THE SUPERINTENDANT & COUNCIL.

LEGEND:

- == == == == == EASEMENT
- FP ● --- SUBSOIL & FLUSHING POINT
- PROPOSED STORMWATER LINE
- EXISTING STORMWATER LINE
- PROPOSED BASIN
- KA ● KERB ADAPTER
- JP □ JUNCTION PIT
- GP □ GRATED PIT
- SEP □ SIDE ENTRY PIT
- BUILDING ENVELOPE
- FOOTPATH



BAR SCALE  
1:1000

No.	DATE	AMENDMENTS	BY
A	21/10/2024	SET ISSUED	CZ
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PROJECT  
**PROPOSED SUBDIVISION**  
-  
**1812A MALLINSON ROAD**  
**GRIFFITH, NSW, 2680**

SHEET SUBJECT  
**DRAINAGE PLAN**

CLIENT  
**POWEREX GROUP**

PROJECT NO.	SHEET NO.	ISSUE	DATE
240270	C2	A	OCT 2024
COUNCIL REF.	SCALE		
-----	1:1000 (A1) 1:2000 (A3)		
DESIGNED	CHECKED	DRAWN	CHECKED
MM		JS	

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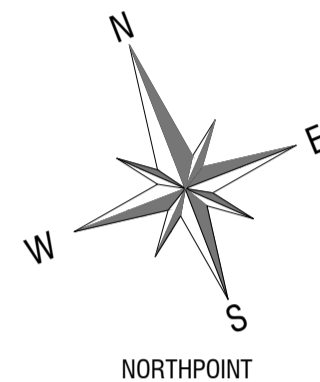
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INITIAL: JS      DATE: 8/11/2024  
ROLE: CIVIL DRAFTSPERSON



LEGEND:

- OVERLAND FLOW PATH
- FRONT OF BLOCK / KERB  
ADAPTER CATCHMENT
- REAR OF BLOCK CATCHMENTS
- ROAD CATCHMENT
- FOOTPATH



No.	DATE	AMENDMENTS	BY
A	21/10/2024	SET ISSUED	CZ
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-	-	-	-

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PROJECT  
PROPOSED SUBDIVISION  
-  
1812A MALLINSON ROAD  
GRIFFITH, NSW, 2680

SHEET SUBJECT  
CATCHMENT PLAN

CLIENT  
POWEREX GROUP

PROJECT NO.	SHEET NO.	ISSUE	DATE
240270	C3	A	OCT 2024
COUNCIL REF.	SCALE		
-----	1:1000 (A1) 1:2000 (A3)		
DESIGNED	CHECKED	DRAWN	CHECKED
MM		JS	

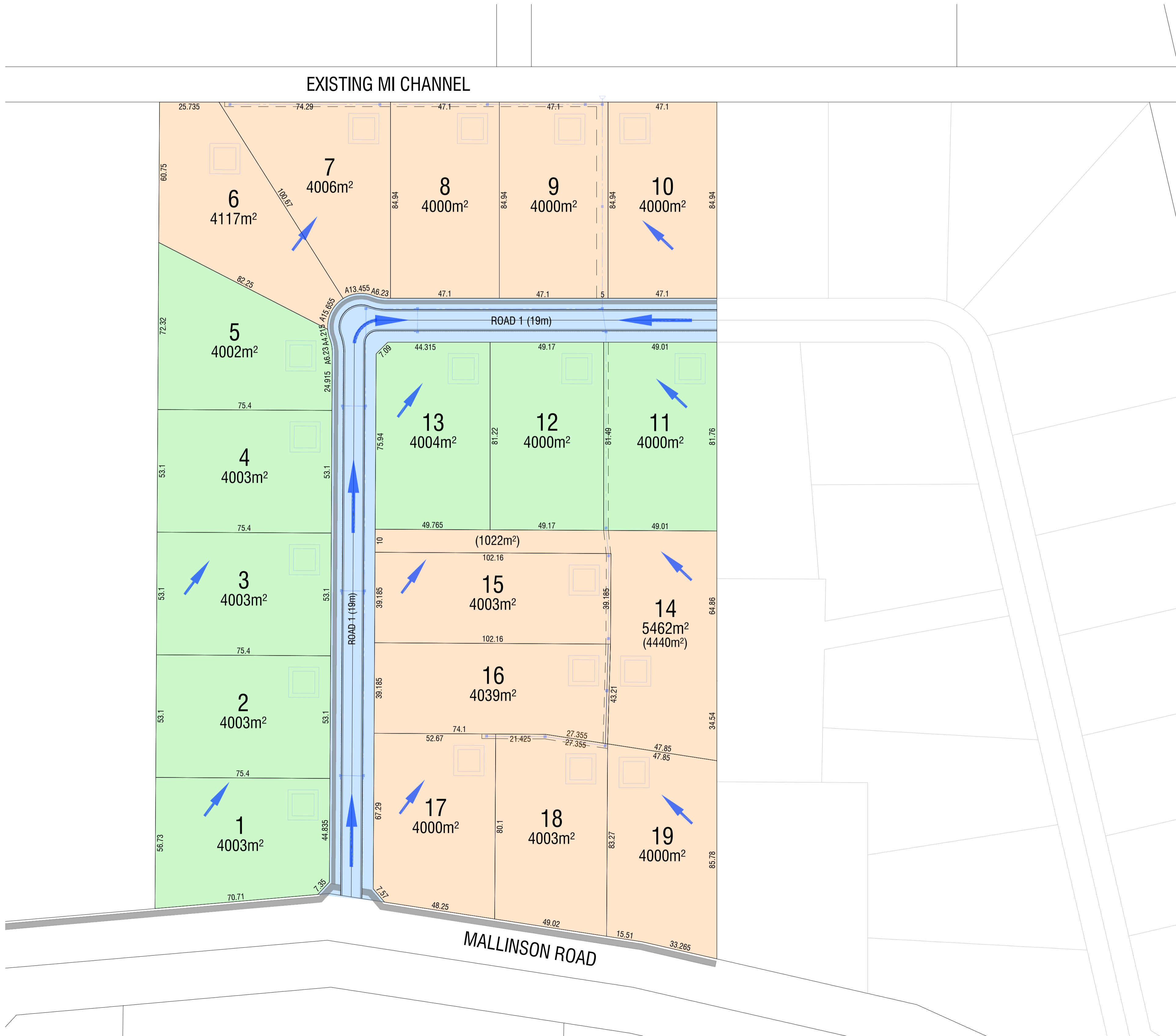
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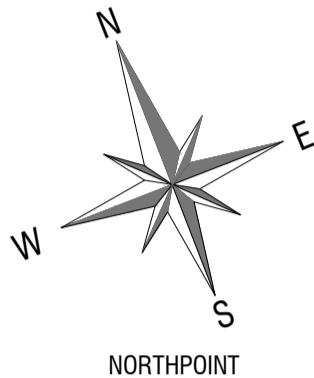
LEGEND:



PROPOSED TREE



FOOTPATH



BAR SCALE  
1:1000

No.	DATE	AMENDMENTS	BY
A	21/10/2024	SET ISSUED	CZ
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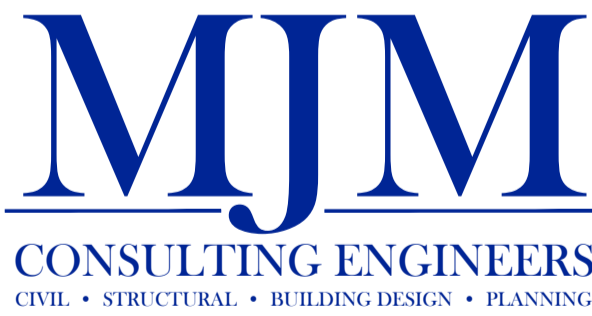
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PROJECT  
PROPOSED SUBDIVISION  
-  
1812A MALLINSON ROAD  
GRIFFITH, NSW, 2680

SHEET SUBJECT  
TREE PLAN

CLIENT  
POWEREX GROUP

PROJECT NO.	SHEET NO.	ISSUE	DATE
240270	C4	A	OCT 2024
COUNCIL REF.	SCALE		
-----	1:1000 (A1) 1:2000 (A3)		
DESIGNED	CHECKED	DRAWN	CHECKED
MM		JS	



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ISSUED FOR APPROVAL

INITIAL: JS      DATE: 8/11/2024  
ROLE: CIVIL DRAFTSPERSON



LEGEND:

- EASEMENT
- PROPOSED WATER LINE
- EXISTING WATER LINE
- BUILDING ENVELOPE
- HYD EXISTING HYDRANT
- M PROPOSED METER
- TB THRUST BLOCK
- FOOTPATH
- SV PROPOSED STOP VALVE

No.	DATE	AMENDMENTS	BY
A	22/10/2024	SET ISSUED	CZ
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PROJECT  
PROPOSED SUBDIVISION  
-  
1812A MALLINSON ROAD  
GRIFFITH, NSW, 2680

SHEET SUBJECT  
WATER PLAN

CLIENT  
POWEREX GROUP

PROJECT NO.	SHEET NO.	ISSUE	DATE
240270	C5	A	OCT 2024
COUNCIL REF.	SCALE		
-----	1:1000 (A1) 1:2000 (A3)		
DESIGNED	CHECKED	DRAWN	CHECKED
MM		JS	

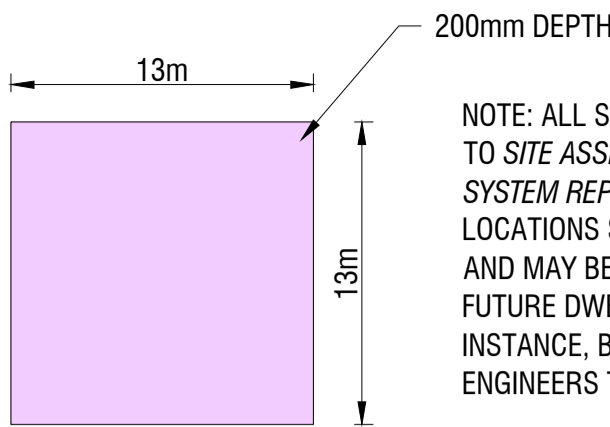
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NOTE: ALL SEWER DISPOSAL AREAS ARE SUBJECT TO *SITE ASSESSMENT FOR EFFLUENT DISPOSAL SYSTEM REPORT* BY AITKEN ROWE GS20-081. LOCATIONS SHOWN ON THIS PLAN ARE INDICATIVE AND MAY BE SUBJECT TO CHANGE PENDING FUTURE DWELLING CONSTRUCTION. IN THIS INSTANCE, BOTH COUNCIL AND MJM CONSULTING ENGINEERS TO BE NOTIFIED.

TYPICAL SEWER DISPOSAL AREA

LEGEND:

SEWER EFFLUENT DISPOSAL AREA



No.	DATE	AMENDMENTS	BY
A	8/11/2024	ISSUED FOR DA	JS
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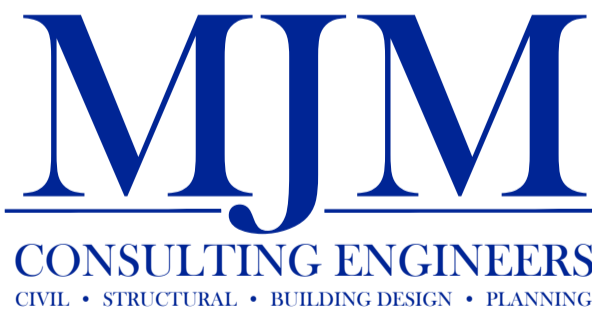
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PROJECT  
PROPOSED SUBDIVISION  
-  
1812A MALLINSON ROAD  
GRIFFITH, NSW, 2680

SHEET SUBJECT  
SEWER PLAN

CLIENT  
POWEREX GROUP

PROJECT NO.	SHEET NO.	ISSUE	DATE
240270	C6	A	November 2024
COUNCIL REF.	SCALE		
-----	1:1000(A1) 1:2000(A3)		
DESIGNED	CHECKED	DRAWN	CHECKED
MM		JS	



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