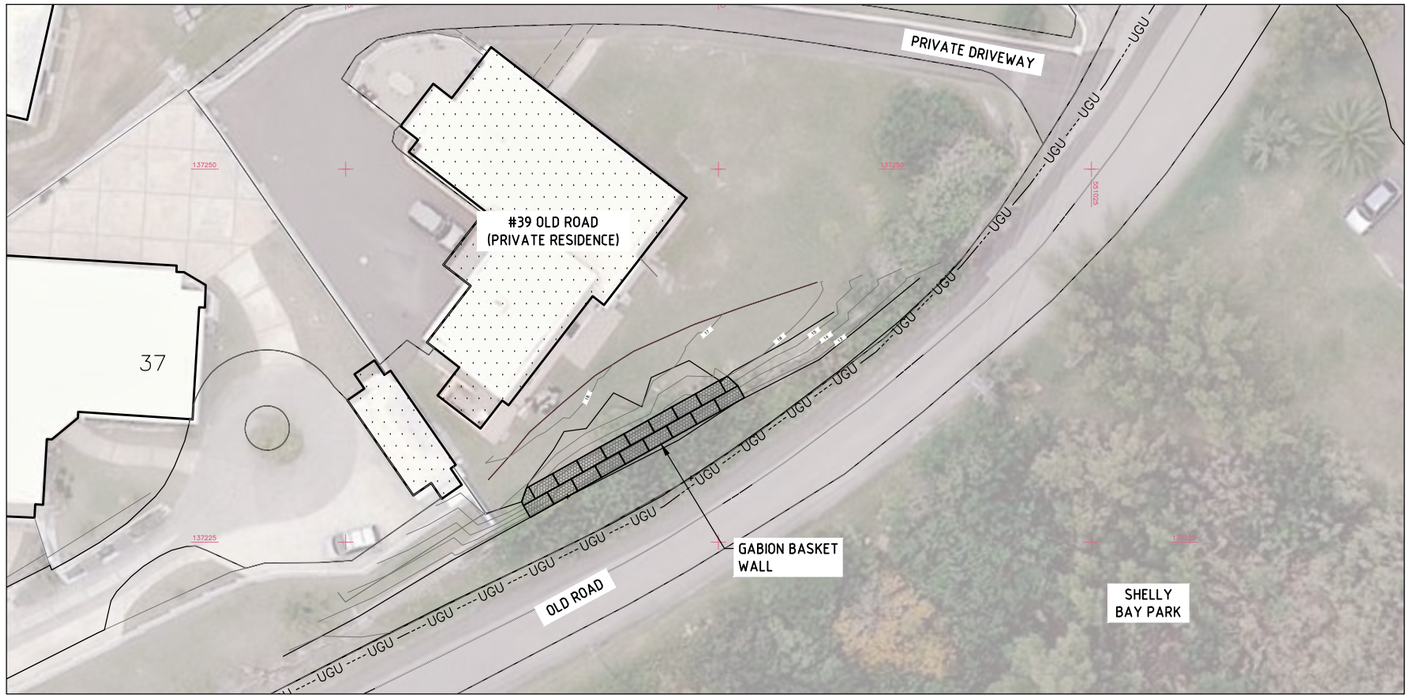
GABION WALL AT
39 OLD ROAD, HAMILTON
41-83-1-100

LOCATION
N.T.S.



LOCATION PLAN
1:200

0 4000 8000 12000 16000 20000mm
SCALE 1:200 AT ORIGINAL SIZE

THE MINISTRY OF PUBLIC WORKS
P.O. Box HM525
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DEPARTMENT OF WORKS AND ENGINEERING
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GENERAL NOTES:
1. SURVEY GRID IS BNG2000
2. LEVELS ARE IN METERS ABOVE ORDINANCE DATUM
3. CONTRACTOR TO ENSURE STABILITY OF THE STRUCTURE DURING ALL PHASES
4.

ISSUED FOR: INFORMATION

AMENDMENTS:

NO:	REVISION	DATE:
A	FOR TENDER	06/11/25

SCALE: AS SHOWN AT ANSI D

SURVEY
PREPARED: – DATE: –

DESIGN
PREPARED: – DATE: –
CHECKED: – DATE: –

DRAWING
PREPARED: A.KENNY DATE: 06/11/2025
CHECKED: – DATE: –

APPROVED BY:
–

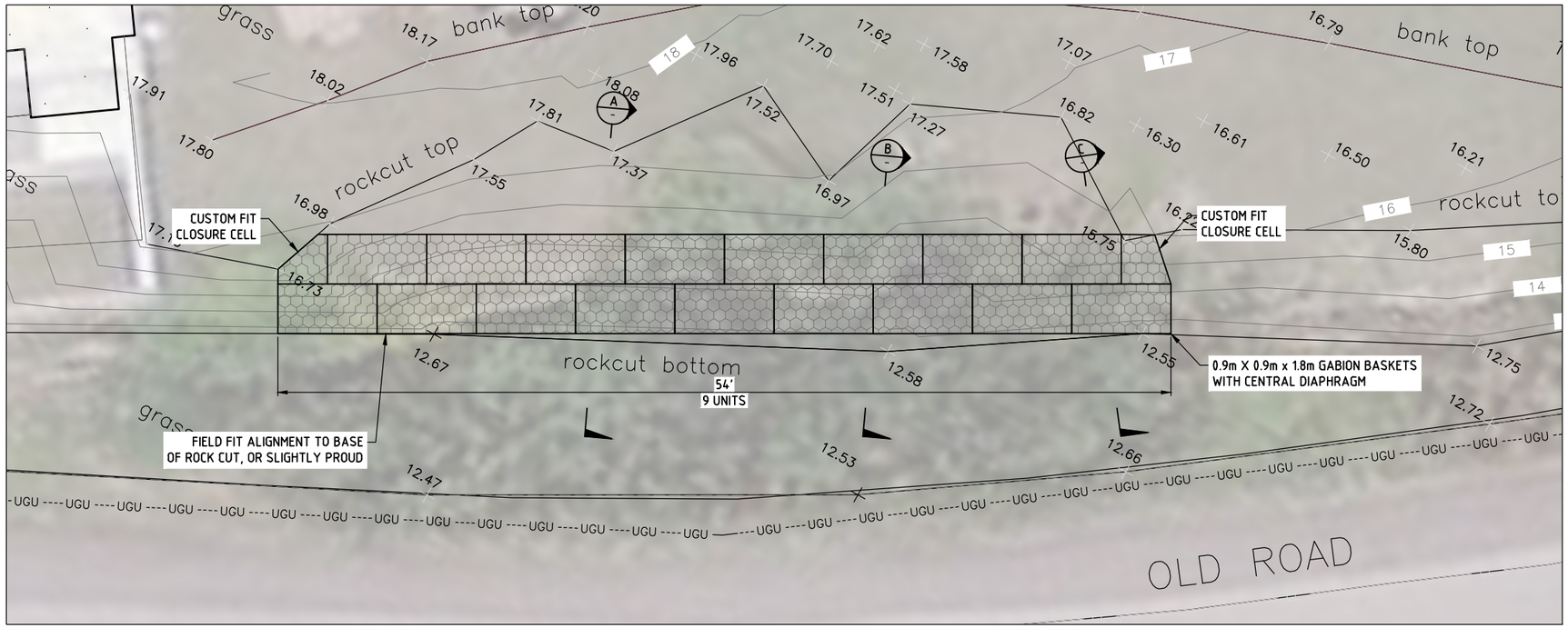
PROJECT NUMBER:
41-83-1-100

PROJECT NAME:
GABION WALL AT 39 OLD ROAD

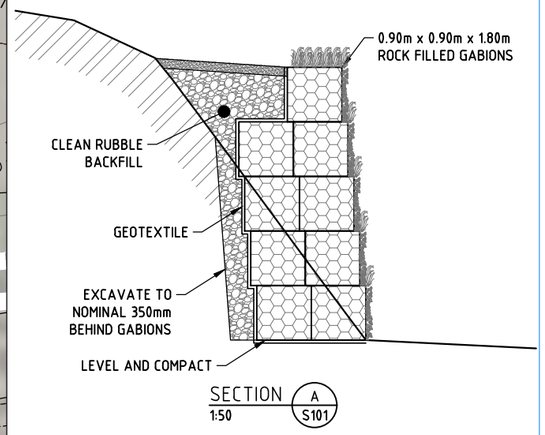
OLD ROAD
HAMILTON

SHEET TITLE:
TITLE SHEET

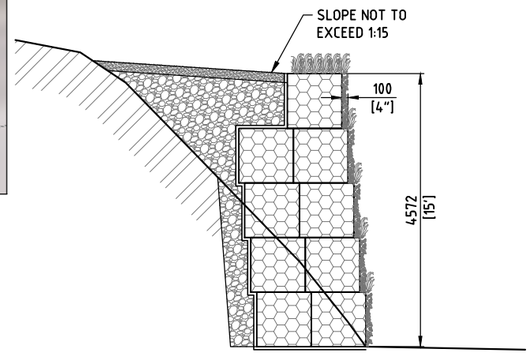
SHEET NUMBER: S101
REVISION: A



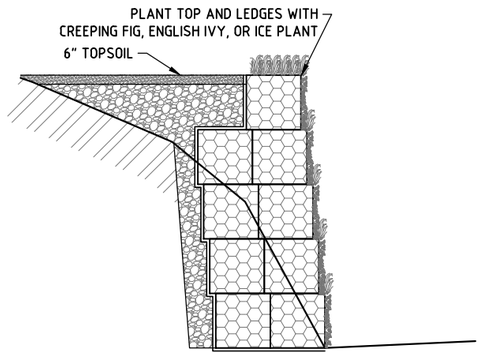
PLAN
1:50



SECTION A S101
1:50



SECTION B S101
1:50



SECTION C S101
1:50

0 1000 2000 3000 4000 5000mm
SCALE 1:50 AT ORIGINAL SIZE

MATERIALS

GABION BASKETS:

1. WIRE BASKETS SHALL BE FACTORY FABRICATED SO THAT SIDES, ENDS, LID AND INTERNAL DIAPHRAGMS CAN BE READILY ASSEMBLED AT SITE INTO RECTANGULAR BASKETS OF SIZES AS INDICATED.
2. BASKETS SHALL BE SINGLE UNIT CONSTRUCTION OR WITH JOINTS HAVING STRENGTH AND FLEXIBILITY EQUAL TO THAT OF MESH.
3. PROVIDE DIAPHRAGMS OF SAME MESH AS GABION WALLS, WHEN LENGTH EXCEEDS HORIZONTAL WIDTH. DIAPHRAGMS TO DIVIDE BASKET INTO EQUAL CELLS OF LENGTH NOT TO EXCEED HORIZONTAL WIDTH.
4. WIRE MESH GABIONS:
   - 4.1. WIRE MESH SHALL BE OF UNIFORM HEXAGONAL PATTERN WIRE WOVEN DOUBLE TWIST PATTERN WITH OPENINGS OF APPROXIMATELY 80 x 100 mm, NON-RAVELLING.
   - 4.2. PERIMETER EDGES SHALL BE SECURELY SELVEDGED TO FORM JOINTS CONNECTING SELVEDGES WITH SAME STRENGTH AS MESH BODY.
   - 4.3. WIRE MESH AND ALL ACCESSORIES SHALL BE IN ACCORDANCE WITH PVC COATED 80mm x 100mm GABION OUTLINED IN TABLE 1 (MESH CHARACTERISTICS) OF ASTM 975-11.
   - 4.4. WIRE, INTERLOCKING FASTENERS, AND ALL ACCESSORIES SHALL HAVE A MINIMUM COVER OF 0.5mm THICK POLYVINYL CHLORIDE COATING, IN ACCORDANCE WITH ASTM A975.

STONE FILL:

1. STONE SHALL BE HARD, DURABLE, ABRASION RESISTANT, CAPABLE OF RESISTING DEGRADATION FROM ACTION OF WETTING AND DRYING.
2. INDIVIDUAL STONES SHALL BE MINIMUM 100mm TO MAXIMUM 200mm DIMENSION.

GEOTEXTILE FILTER:

1. THE SOIL-GABION INTERFACE SHALL BE LINED WITH AN APPROVED GEOTEXTILE IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.
2. GEOTEXTILE FILTER SHALL BE NON-WOVEN, TERRAFIX NON-WOVEN 360R OR EQUIVALENT APPROVED.
3. ADJACENT GEOTEXTILES ROLLS SHALL BE OVERLAPPED A MINIMUM OF 300mm WHEN JOINING

EXECUTION

SITE PREPARATION:

1. THE IRREGULAR ROCK FACE SHALL BE CUT BACK TO STABLE MATERIAL AS SHOWN ON THE DRAWINGS. ALL LOOSE MATERIAL AND AGGRESSIVE VEGETATION MUST BE REMOVED FROM THE CREST OF THE ROCK CUT.
2. THE FOUNDATION SHALL BE LEVEL AND GRADED TO THE ELEVATION INDICATION ON THE DRAWINGS.
3. THE FOUNDATION SURFACE SHALL BE SMOOTH AND FREE OF IRREGULARITIES, LOOSE MATERIAL, AND VEGETATION.
4. THE FOUNDATION FOR THE GABIONS SHALL BE INSPECTED BY MPW ENGINEER PRIOR TO PLACEMENT OF GABIONS. IF REQUIRED, EXCAVATED AREAS SHALL BE BUILT BACK TO GRADE WITH APPROVED STRUCTURAL FILL.
5. ALL UNDERGROUND UTILITIES (PIPES, CABLES, WIRES, ETC.) NEAR THE FOUNDATION MUST BE IDENTIFIED (BY THE CONTRACTOR) AND RELOCATED (AT THE OWNER'S EXPENSE) IF REQUIRED PRIOR TO EXCAVATION.

INSTALLATION, PLACING, AND FILLING BASKETS:

1. GABIONS AND GEOTEXTILES ARE TO BE INSTALLED TO LINES AND GRADES AS INDICATED ON THE PROJECT DRAWINGS. MANUFACTURER'S INSTRUCTIONS MUST BE FOLLOWED IN ASSEMBLING BASKETS.
2. GABIONS SHALL BE PLACED IN POSITION PRIOR TO FILLING WITH STONES.
3. ADJACENT BASKETS SHALL BE JOINED TOGETHER AT CORNERS AS RECOMMENDED BY MANUFACTURER, TO ENSURE JOINTS ARE AS STRONG AS MESH.
4. THE CONTRACTOR SHALL FOLLOW MANUFACTURERS INSTRUCTIONS FOR FILLING, BRACING, AND CLOSING THE GABIONS.
5. ON EXPOSED FACES OF GABIONS, STONES SHALL BE PLACED BY HAND WITH FLATTEST SURFACES BEARING AGAINST FACE MESH TO PRODUCE SATISFACTORY ALIGNMENT AND APPEARANCE.
6. GABION CELLS SHALL BE FILLED IN LIFTS NOT TO EXCEED 300 MM AND OPPOSITE WALLS CONNECTED WITH TWO TIE WIRES AFTER EACH LIFT.
7. EACH GABION SHALL BE PLACE IN TURN, COMPLETELY FABRICATED EXCEPT FOR FASTENING DOWN THE LID, STRETCHED TO THE CURRENT SHAPE AND DIMENSIONS, AND FASTENED SECURELY TO ALL CONTIGUOUS BASKETS ALONG EACH EDGE OF THE TYING WIRE.
8. THE GABION SHALL BE TIGHTLY PACKED WITH APPROVED STONE BY HAND IN SUCH A MANNER THAT VOIDS ARE KEPT TO A PRACTICABLE MINIMUM AND ARE UNIFORMLY DISTURBED IN THE GABION.
9. THE LID OF THE GABION SHALL BE SECURELY FASTENED DOWN WITH THE TYING WIRE ALONG ALL UNFASTENED EDGES TO THE SATISFACTORY OF THE MPW ENGINEER.

GEOTEXTILE PLACEMENT AND BACKFILLING:

1. THE SOIL-GABION INTERFACE SHALL BE LINED WITH AN APPROVED GEOTEXTILE IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.
2. ADJACENT GEOTEXTILES ROLLS SHALL BE OVERLAPPED A MINIMUM OF 300mm WHEN JOINING
3. COMPACTION OF THE BACKFILL MUST BE COMPLETED SIMULTANEOUSLY WITH EVERY ROW OF GABIONS, AFTER FILLING THE GABIONS, IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS.
4. CARE MUST BE TAKEN TO AVOID DAMAGE TO THE GEOTEXTILE.
5. HEAVY COMPACTION EQUIPMENT MUST NOT BE USED WITHIN 2m (6ft) OF GABIONS. SMALL HAND-HELD COMPACTION EQUIPMENT MUST BE USED ADJACENT TO THE GABIONS.

DEFECTIVE GABION BASKETS:

1. IF GABIONS ARE DEEMED TO BE DEFECTIVE BY THE MPW ENGINEER, THE CONTRACTOR MUST REMEDIATE OR REPLACE THE BASKET AT THEIR OWN COSTS.

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GENERAL NOTES:
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2. LEVELS ARE IN METERS ABOVE ORDINANCE DATUM
3. CONTRACTOR TO ENSURE STABILITY OF THE STRUCTURE DURING ALL PHASES
4. SCHEMATIC ONLY – DO NOT SCALE

ISSUED FOR: INFORMATION

AMENDMENTS:

NO:	REVISION	DATE:
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DRAWING
PREPARED: A.KENNY DATE: 06/11/2025
CHECKED: – DATE: –

APPROVED BY:
–

PROJECT NUMBER:
41-83-1-100

PROJECT NAME:
GABION WALL AT 30 OLD ROAD

OLD ROAD
HAMILTON

SHEET TITLE:
PLAN, SECTIONS, AND NOTES

SHEET NUMBER: S102
REVISION: A