

DENHAMS BEACH DUPLEX - EMERGENCY ENVIRONMENTAL PROTECTION WORKS

217A BEACH ROAD, DENHAMS BEACH, NSW

SUBJECT OF THESE DRAWINGS AN THE ATTACHED SUPPORTING DOCUMENTS IS TO TELL A CHRONOLOGICAL FULL SITE HISTORY, TO PROVIDE A CLEAR GEOTECHNICAL AND STRUCTURAL PICTURE AND TO CLEARLY DESCRIBE THE WORKS CARRIED OUT AS EMERGENCY ENVIRONMENTAL PROTECTION WORKS.

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No	Sheet Name		
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C0015	CONSTRUCTION OF WORKS 6 - PHOTOS		

ATTACHED SUPPORTING DOCUMENTS:

- GEOTECHNICAL INVESTIGATION REPORT
- CLIFF STABILIZATION LETTER FROM STRUCTURAL ENGINEER
- CLIFF STABILIZATION CONCEPT BY STRUCTURAL ENGINEER ARBORIST REPORT
- RETAINING WALL STRUCTURAL DESIGN BY STRUCTURAL ENGINEER 05/02/2024
- PRELIMINARY ENVIRONMENTAL ASSESSMENT REPORT
- RETAINING WALLS STRUCTURAL DESIGN STATEMENT
- VERTI-BLOCK BROCHURE

17/07/2023 21/09/2023 22/09/2023 07/12/2023 16/04/2024 30/05/2024

DA-C 13.09.24 Authorities Approval ISS DATE ISSUE DESCRIPTION

6	11.10.24	General Updates
5	13.05.24	Response to Council's RFIs
4	12.02.24	Response to council's RFI
3	07.08.23	revised post Civil coordination
2	25.05.23	Draft DA for review
1	15.02.23	layout updates
REV	DATE	REV DESCRIPTION

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CLIENT Colbert

PROJECT **DENHAMS BEACH DUPLEX**

LOT 2 DP 773132 @217a BEACH ROAD DENHAMS BEACH NSW

DESCRIPTION COVER PAGE

PROJECT STATUS **AUTHORITIES APPROVAL**

SCALE at A3

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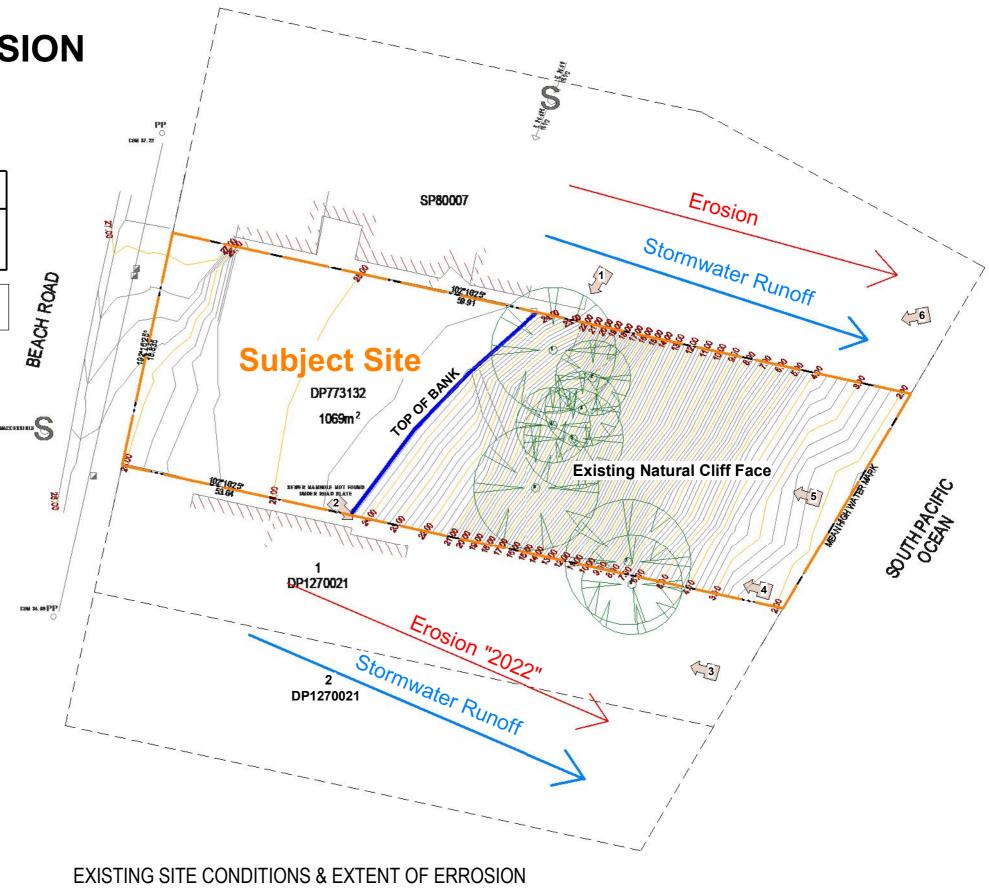
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1. ENVIRONMENTAL EROSION

LEGEND

Site Photos Showing Erosion and Original Site Condition

Note: Subject site information from survey undertaken on 05/09/2022



1 : 300



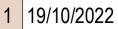
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NOTES Verify all dimensions on site Use Dimensions DO NOT SCALE

Prior to completion of works, certificates to

Prior to completion of works, certificates to be provided to achitect and home owner: 1. Certification of Footings, & Structure 2. Wet Sealing 3. Termite Protection 4. Glazing Certificate 6. Plumbing Final 7. Electrical Final 8. Certificate of Occupancy

All works are to comply with the Building Code of Australia and referenced Australian Standards, including and not limited to: to AS 1170.3: Snow Loading Code Code (Cales in buildings, section and installation AS 1884: Framing Code AS 3000 Plumbing, Drainage & Gas AS 3060: Termite protection AS 3740: Waterproofing of domestic wet areas AS 3760: Smoke Alams HOUSING PROVISIONS OF THE BUILDING CODE OF AUSTRALIA: PART 33: MASONRY PART 33: MASONRY PART 35: KIC 2007 PART 35: STARS AND BALUSTRADES



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11.10.24 General Updates REV DATE REV DESCRIPTION

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PROJECT DENHAMS BEACH DUPLEX

LOT 2 DP 773132 @217a BEACH ROAD DENHAMS BEACH NSW



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DESCRIPTION EXISTING SITE **CONDITIONS & EXTENT OF ERROSION 2 - PHOTOS**

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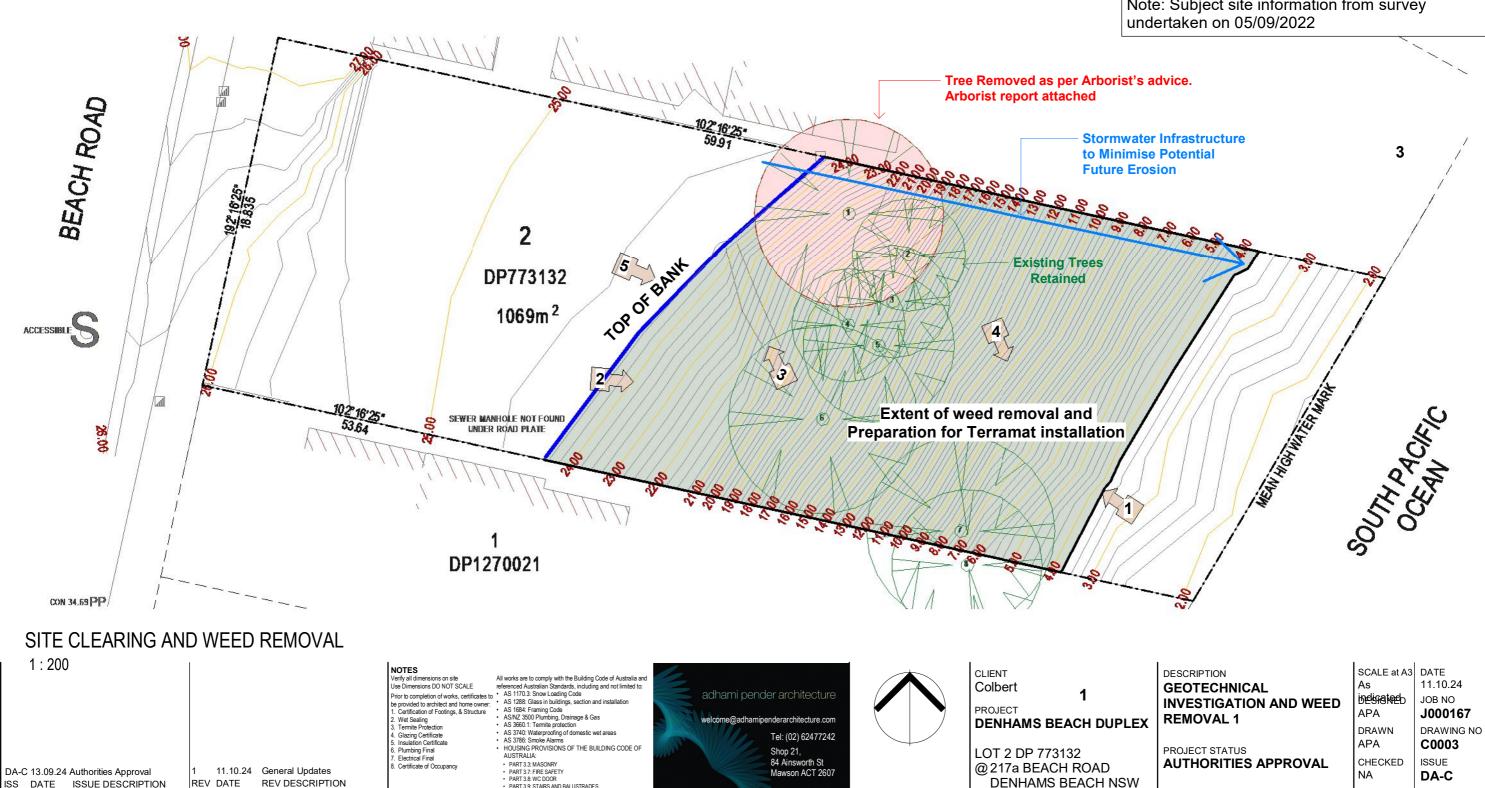
2. REMEDIATION - SITE CLEARING AND WEED REMOVAL

To gain better understanding of the condition of the subject site and the site erosion the following advice was obtained:

- Geotechnical investigation report
- Structural advice regarding condition of landslide
- Arborist report.

Necessary removal of weed was undertaken to expose the cliff face and to allow for appropriate and necessary cliff stabilization work. Every effort was done to retain all healthy plantation. All significant and healthy trees were retained except for one large tree removed as requested by neighbour's DA submission, and as per arborist advice.

Existing beach access steps, pathways and retaining walls were uncovered. The Site was re-surveyed post vegetation clearing.





Note: Subject site information from survey





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LOT 2 DP 773132 @217a BEACH ROAD DENHAMS BEACH NSW

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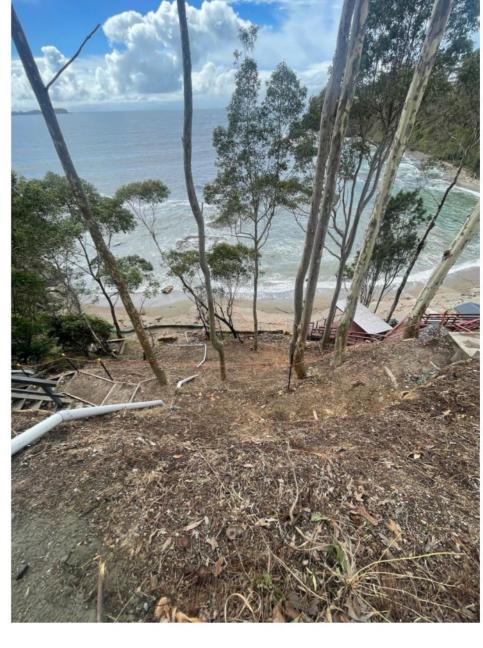
DESCRIPTION GEOTECHNICAL INVESTIGATION AND WEED **REMOVAL 2 - PHOTOS**

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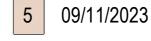






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DESCRIPTION GEOTECHNICAL INVESTIGATION AND WEED REMOVAL 3 - PHOTOS

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3. REMEDIATION - STRUCTURAL WORKS

Site Weed removal was followed by emergency environmental protection works:

Terramat: Installation of 315m Terramat as per structural engineer's advice and design. (Terramat, is a lightweight, three-dimensional erosion mesh designed to provide permanent erosion control of soil and to reinforce the root system of grasses and vegetation - held in place by galvanised stabilising cable.)

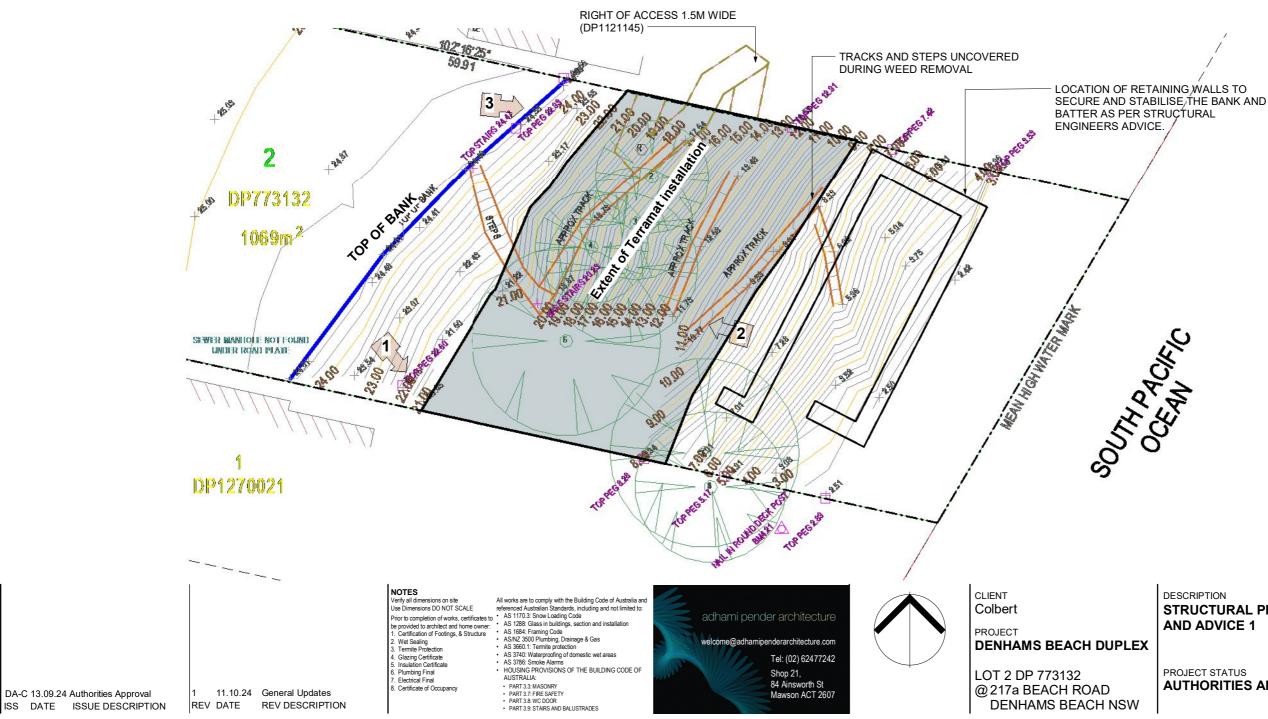
Stabilising Ground anchors: 30 x 3m long anchoring bolts with plates installed into rock face.

Retaining walls: Structural engineer's design included 2 retaining walls at the bottom of the cliff to secure and stabilise the bank and batter. (Verti-block system was proposed as part of the design. Product brochure attached.). Note: Retaining walls similar in height and location to adjacent properties

Rocks: Local rocks were added at retaining walls base to provide additional protection from erosion / wave surges.

Access: Safe repairs to Australian standards of the existing beach access steps, pathways and retaining walls were necessary for site access, safety of employees, contractors and visitors, including local residents who might attempt access. Existing pathway routes and step locations were refurbished.

The Structural engineer's design diagrams included on Sheet No. C007 and No. C008 and are attached as part the supporting documents package. The structural engineer and architects did seek secondary advice from other Structural engineering firms.



LEGEND



Site Photos Showing Installation of Terramat

Area of Installation of Terramat

Note: Subject site information from detailed topographical survey of the cliff face undertaken on 21/11/2023

STRUCTURAL PROPOSAL AND ADVICE 1

PROJECT STATUS **AUTHORITIES APPROVAL** SCALE at A3 DATE As indigated APA DRAWN APA CHECKED NA

11.10.24 JOB NO J000167 DRAWING NO C0006 ISSUE DA-C

217 Beach Rd, Denhams Beach

Slope Stabilisation

150 x 15.0 x 10 blate (with eye loops for cables) to hold Terramat. Expose rock face to install 400+400=20 gol and powder cooled blote. Dry back grout under Ground anchors at 3rd centres, Po Kemove weeds including roots 3m long x 30 dia · Leave trees + roots undesturbed gal threaded rod grouted in go dia · Cut back bushes to retain at surface · Install Terramat over existing surface holes into rock face at and hold in place with 12 dia gol cable running vertically + horzontelly between ground anchors 15° to horizontal Rock face . Leave 200 mm of ground anchor exposed (for future use) Paint all exposed steel with bitumen Stabilised soil face

Structural Engineer's Terramat Application Detail for Slope Stabilisation

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 AS 1248; Framing Code
 AS 1240; Waterprotong of domestic wet areas

 Insulation Certificate
 AS 3786; Smoke Alarms

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PROJECT DENHAMS BEACH DUPLEX

LOT 2 DP 773132 @ 217a BEACH ROAD DENHAMS BEACH NSW PROJECT STATUS AUTHORITIES APPROVAL

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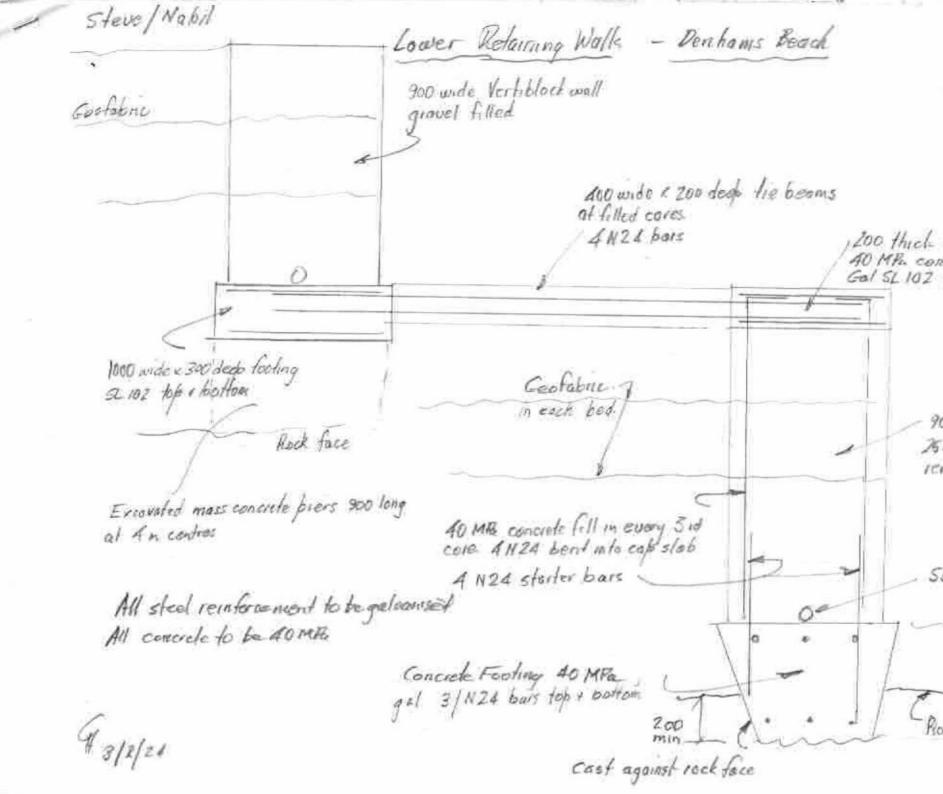
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Structural Engineer's Design for Cliff Stabilising Retaining Walls



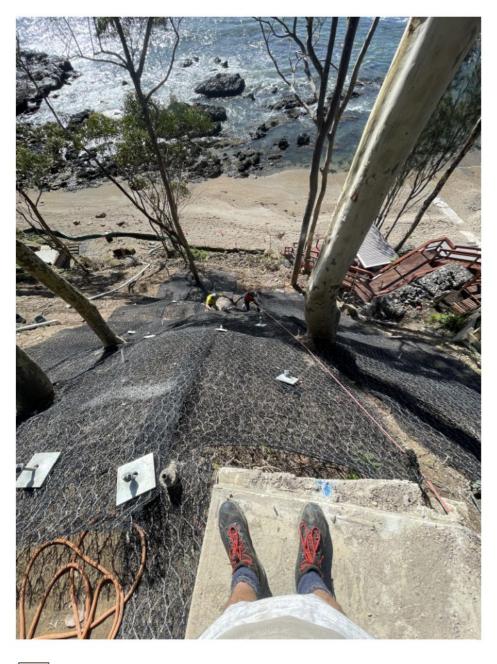
40 MR. concrete Gal SL 102 top+ bottom (40 1000) 900 wide Vertiblock Konn growel fill mi remaining cores Subsoil drain Rock surface

DESCRIPTION STRUCTURAL PROPOSAL AND ADVICE 3

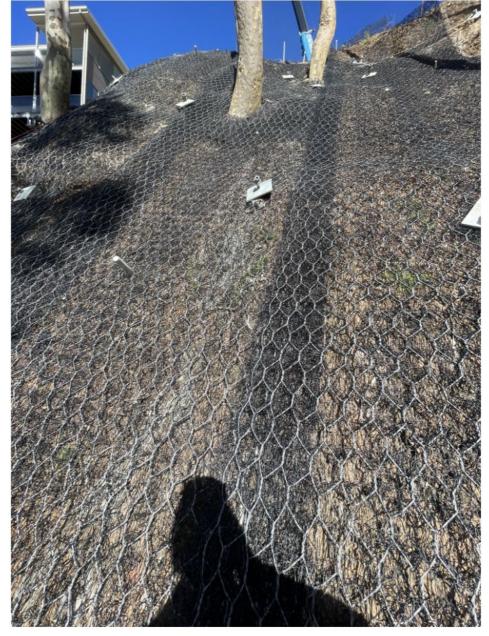
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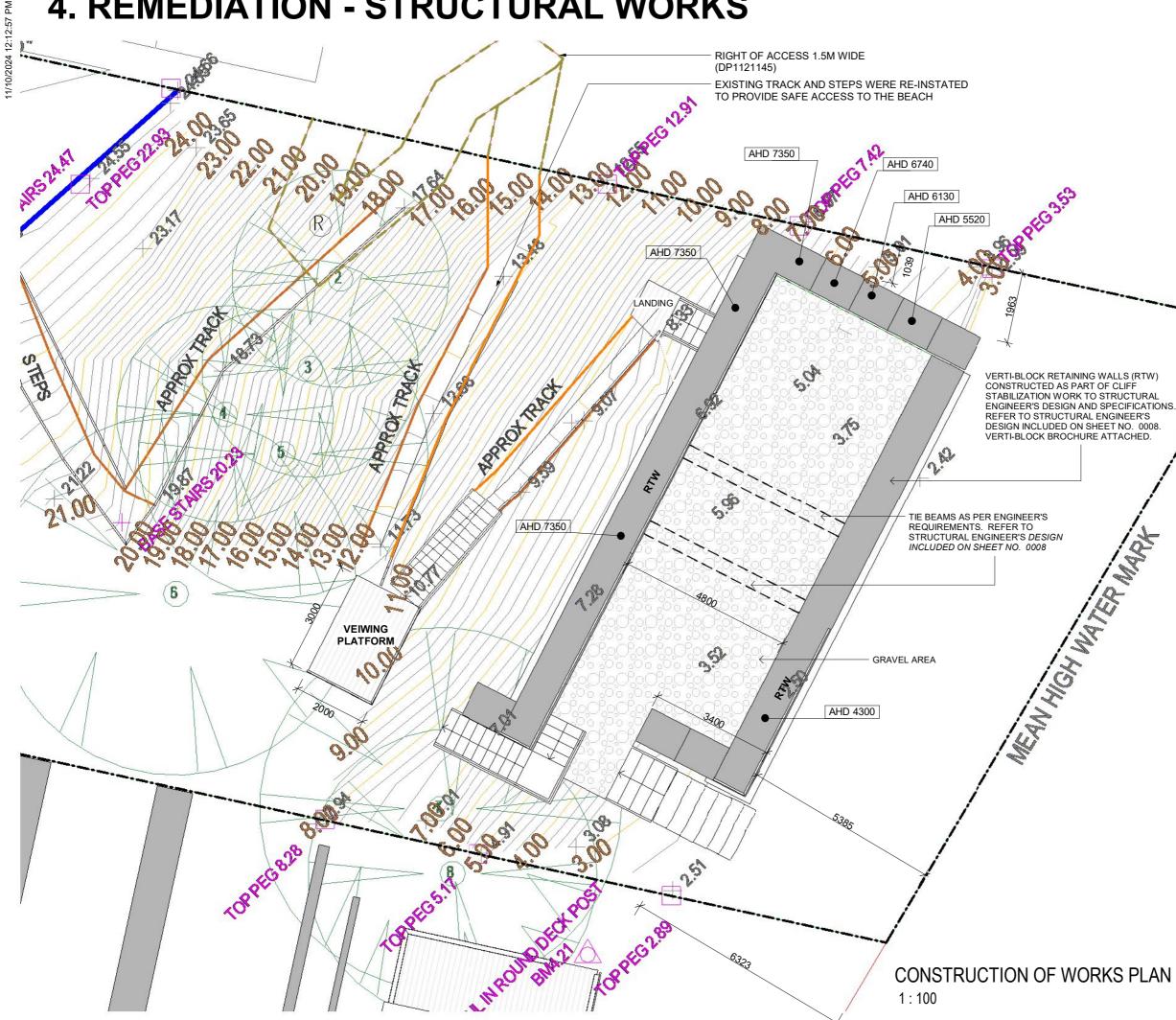
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LOT 2 DP 773132 @ 217a BEACH ROAD DENHAMS BEACH NSW DESCRIPTION STRUCTURAL PROPOSAL AND ADVICE 4 - TERRAMAT INSTALLATION

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4. REMEDIATION - STRUCTURAL WORKS



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All works are to comply with the Building Code of Australia and referenced Australian Standards, including and not limited to:

- · AS 1170.3: Snow Loading Code
- AS 1288: Glass in buildings, section and installation
 AS 1684: Framing Code
 AS/NZ 3500 Plumbing, Drainage & Gas
- AS 3660.1: Termite protection
- · AS 3740: Waterproofing of domestic wet areas
- AS 3786: Smoke Alarms
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- 8. Certificate of Occupancy

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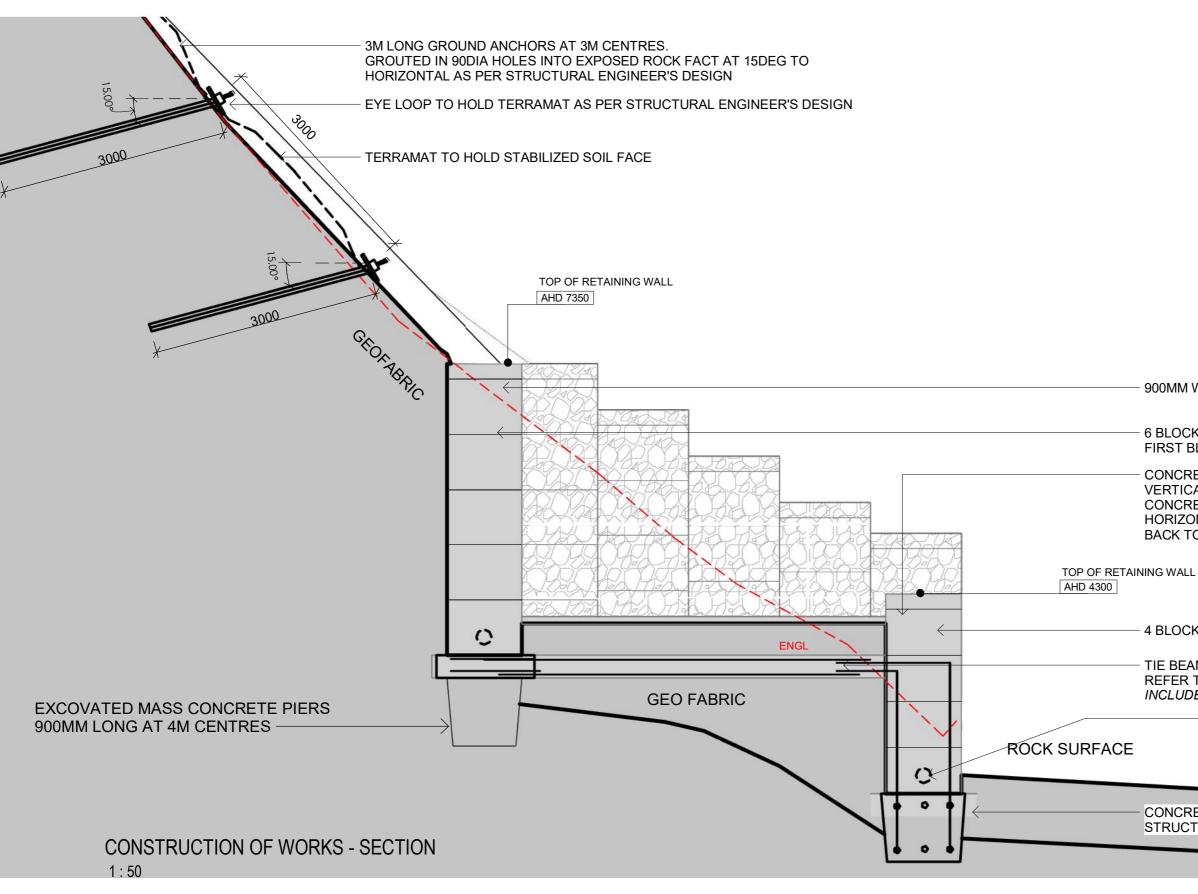
CLIENT Colbert PROJECT **DENHAMS BEACH DUPLEX**

LOT 2 DP 773132 @217a BEACH ROAD DENHAMS BEACH NSW

DESCRIPTION **CONSTRUCTION OF WORKS 1 -**INTENT OF RETAINING WALLS AND PROPOSED STRUCTURE PROJECT STATUS

AUTHORITIES APPROVAL

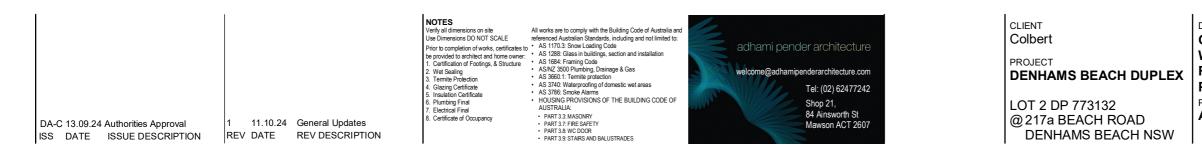
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- 900MM WIDE VERTIBLOCK WALL. GRAVEL FILLED.
- 6 BLOCKS WITH 200MM CAPPING. FIRST BLOCK MOSTLY IN THE GROUND.
- CONCRETE FILL EVERY 3RD VERTIBLOCK CORE. VERTICAL GALVANIZED STEEL BARS IN CONCRETE FILLED BLOCKS TO TIE WITH HORIZONTAL STEEL BARS IN TIE BEAMS AND BACK TO UPPER WALL FOOTINGS.

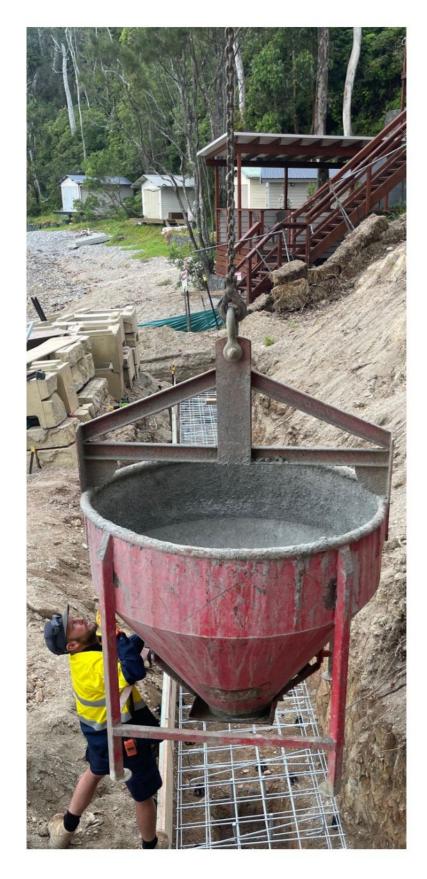
- 4 BLOCKS WITH 200MM CAPPING
- TIE BEAMS AS PER ENGINEER'S REQUIREMENTS. REFER TO STRUCTURAL ENGINEER'S DESIGN INCLUDED ON SHEET NO. 0008

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CONCRETE FOOTING AS PER STRUCTURAL ENGINEER'S DESIGN

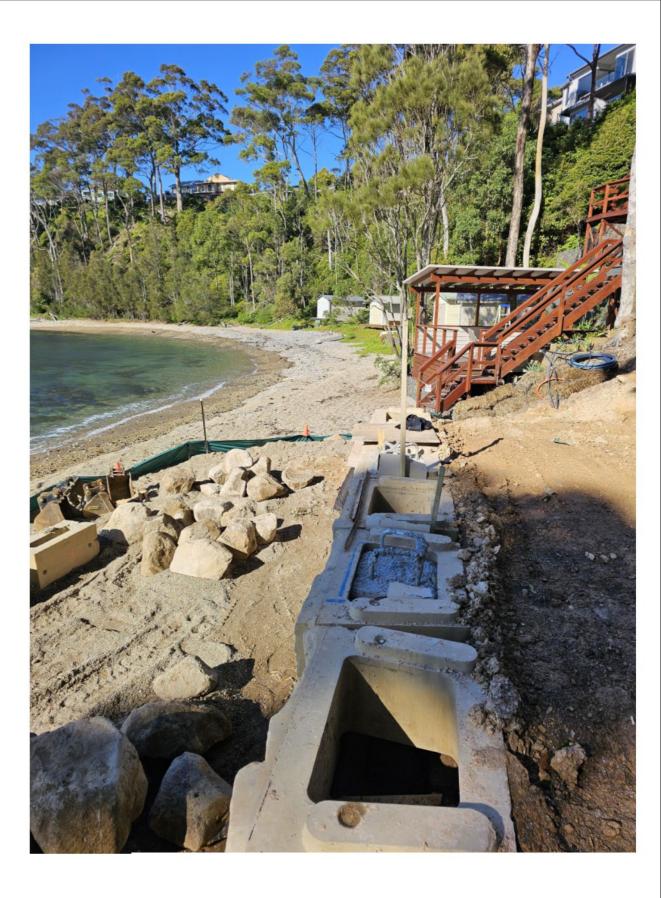
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LOT 2 DP 773132 @217a BEACH ROAD DENHAMS BEACH NSW

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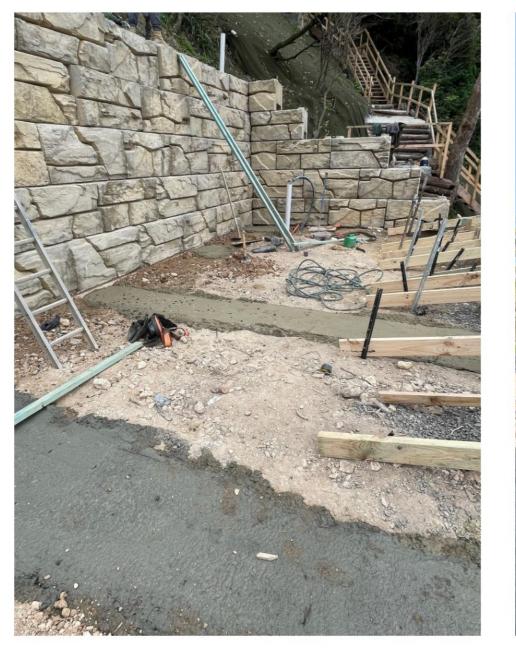
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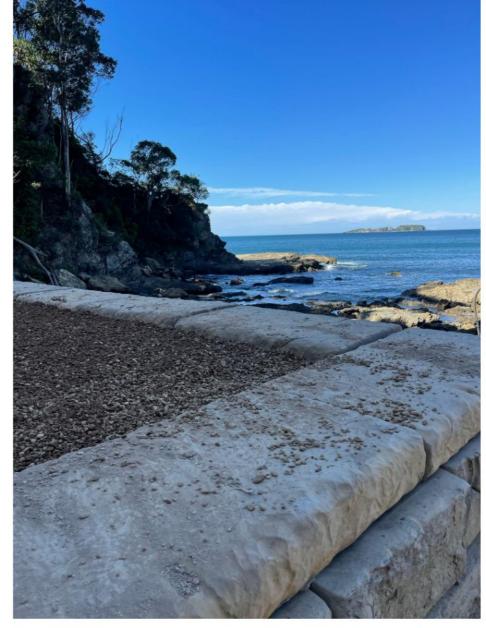
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LOT 2 DP 773132 @ 217a BEACH ROAD DENHAMS BEACH NSW

DA-C 13.09.24 Authorities Approval ISS DATE ISSUE DESCRIPTION

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DESCRIPTION CONSTRUCTION OF WORKS 4 - PHOTOS

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STORMWATER INFRASTRUCTURE As shown on diagram on Sheet No. C0003

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PROJECT DENHAMS BEACH DUPLEX

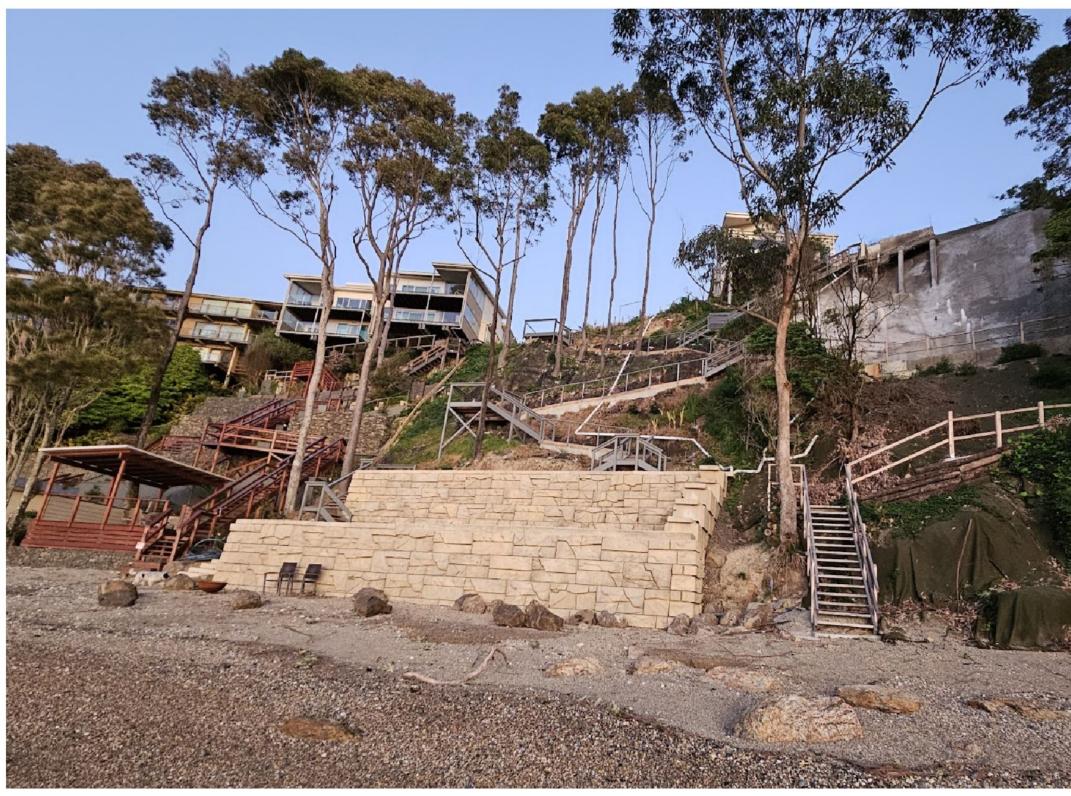
LOT 2 DP 773132 @ 217a BEACH ROAD DENHAMS BEACH NSW PROJECT STATUS AUTHORITIES APPROVAL

DESCRIPTION CONSTRUCTION OF WORKS 5 - PHOTOS

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COMPLETED WORKS

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11.10.24 JOB NO J000167 DRAWING NO C0015 ISSUE DA-C