

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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ATTACHED SUPPORTING DOCUMENTS:

•	GEOTECHNICAL INVESTIGATION REPORT	17/07/2023
•	CLIFF STABILIZATION LETTER FROM STRUCTURAL ENGINEER	21/09/2023
•	CLIFF STABILIZATION CONCEPT BY STRUCTURAL ENGINEER	22/09/2023
•	ARBORIST REPORT	07/12/2023
•	RETAINING WALL STRUCTURAL DESIGN BY STRUCTURAL ENGINEER	05/02/2024
•	PRELIMINARY ENVIRONMENTAL ASSESSMENT REPORT	16/04/2024

 RETAINING WALLS STRUCTURAL DESIGN STATEMENT VERTI-BLOCK BROCHURE

DA-C 13.09.24 Authorities Approval ISS DATE ISSUE DESCRIPTION

13.05.24 Response to Council's RFIs 12.02.24 Response to council's RFI

07.08.23 revised post Civil coordination

25.05.23 Draft DA for review

15.02.23 layout updates REV DATE **REV DESCRIPTION**

adhami pender architecture welcome@adhamipenderarchitecture.com Tel: (02) 62477242 Shop 21, 84 Ainsworth St Mawson ACT 2607

CLIENT Colbert

30/05/2024

DENHAMS BEACH DUPLEX

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

DESCRIPTION

COVER PAGE

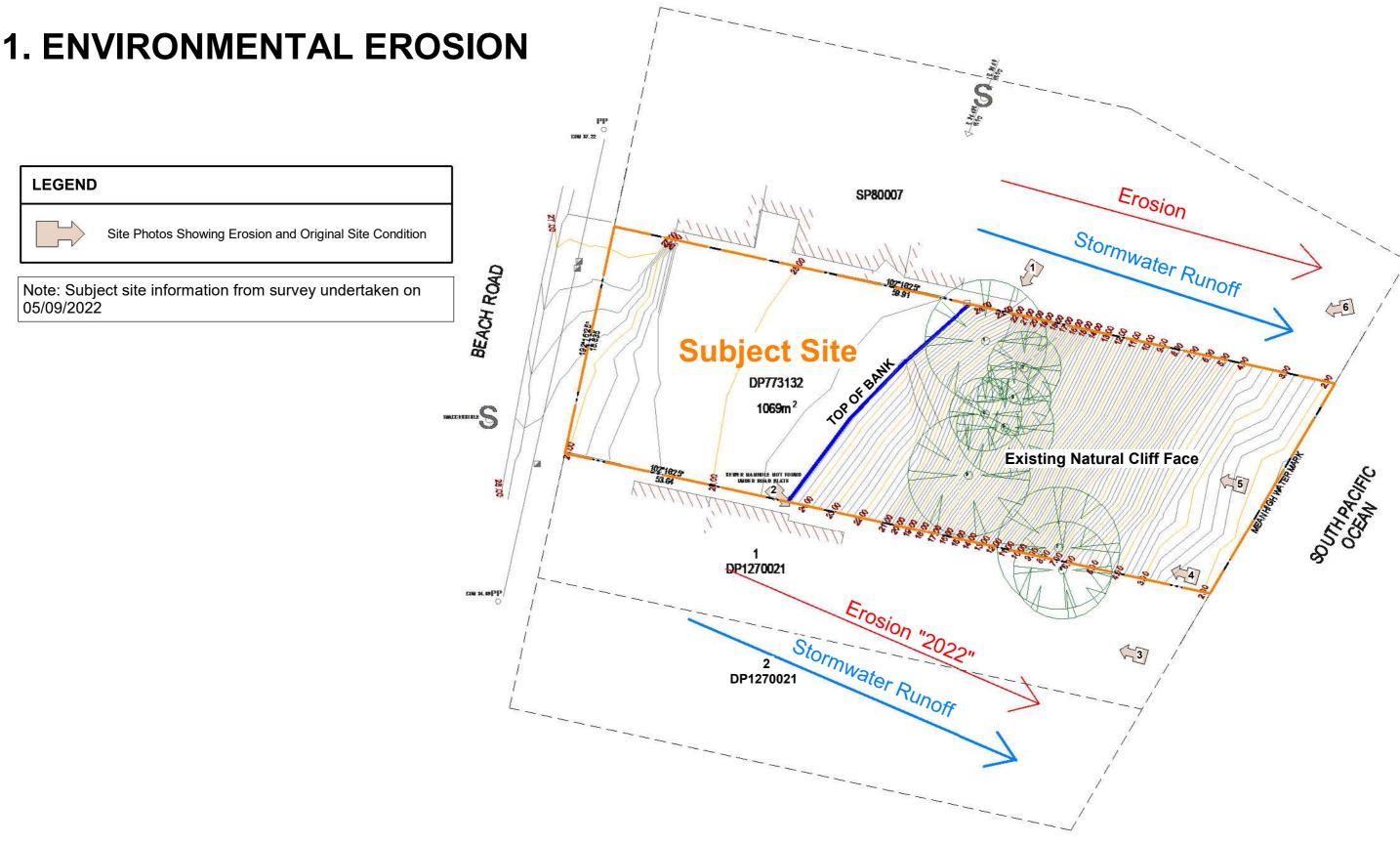
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PROJECT STATUS **AUTHORITIES APPROVAL**

SCALE at A3 DATE

13.09.24 JOB NO DESIGNED APA J000167 DRAWN DRAWING NO MG C000

CHECKED ISSUE DA-C



EXISTING SITE CONDITIONS & EXTENT OF ERROSION 1:300

NOTES SCALE at A3 DATE CLIENT DESCRIPTION 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

- ASINZ 3500 Plumbing, Drainage & Gas

- AS 360.0: Termite protection Verify all dimensions on site
Use Dimensions DO NOT SCALE 13.09.24 Colbert **EXISTING SITE** adhami pender architecture Prior to completion of works, certificates to indigated JOB NO **CONDITIONS & EXTENT OF** be provided to architect and home owner I. Certification of Footings, & Structure 2. Wed Sealing 3. Termite Protection 4. Glazing Certificate 5. Insulation Certificate 6. Plumbing Final 7. Electrical Final 8. Certificate of Certificate 6. Second Final 8. Certificate of Occupancy MG J000167 **ERROSION 1** DENHAMS BEACH DUPLEX DRAWN DRAWING NO AS 3740: Waterproofing of domestic wet areas Tel: (02) 62477242 AS 3786: Smoke Alarms HOUSING PROVISIONS OF THE BUILDING CODE OF MG C0001 Shop 21, 84 Ainsworth St PROJECT STATUS LOT 2 DP 773132 AUSTRALIA:
PART 3.3: MASONRY **AUTHORITIES APPROVAL** CHECKED ISSUE @ 217a BEACH ROAD PART 3.5: MINDONNT

PART 3.7: FIRE SAFETY

PART 3.8: WC DOOR

PART 3.9: STAIRS AND BALUSTRADES DA-C DENHAMS BEACH NSW

DA-C 13.09.24 Authorities Approval ISS DATE ISSUE DESCRIPTION



19/10/2022



02/03/2023



28/11/2022



28/11/2022



02/03/2023



02/03/2023

02/03/2023

NOTES Verify all dimensions on site Use Dimensions DO NOT SCALE

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 Prior to completion of works, certificates to
 be provided to architect and home owner.

 1. Certification of Footings, & Structure
 2. Wet Sealing
 3. Termite Protection
 4. Glazing Certificate
 5. Insulation Certificate
 6. Plumbing Final
 7. Electrical Final
 8. Certificate of Occupancy



CLIENT Colbert

DENHAMS BEACH DUPLEX

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

EXISTING SITE CONDITIONS & EXTENT OF ERROSION 2 - PHOTOS

PROJECT STATUS **AUTHORITIES APPROVAL** SCALE at A3 DATE 1:100 13.09.24 JOB NO DESIGNED MG DRAWN MG

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J000167 DRAWING NO C0002 CHECKED ISSUE DA-C

DA-C 13.09.24 Authorities Approval ISS DATE ISSUE DESCRIPTION

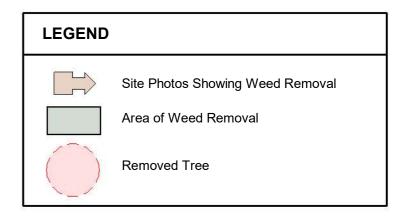
2. REMEDIATION - SITE CLEARING AND WEED REMOVAL

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 trees were retained except for one tree removed as per arborist advice.

Existing beach access tracks and steps were uncovered. Site was re-surveyed post vegetation



Note: Subject site information from survey undertaken on 05/09/2022 Tree Removed as per Arborist's advice. BEACH ROAD **Arborist report attached Stormwater Infrastructure** to Minimise Potential **Future Erosion** 2 TOP OF BANK **Existing Trees** DP773132 Retained 1069m² Extent of weed removal and SEWER MANHOLE NOT FOUND Preparation for Terramat installation DP1270021 CON 34.69 PP

SITE CLEARING AND WEED REMOVAL

1:200 DA-C 13.09.24 Authorities Approval ISS DATE ISSUE DESCRIPTION REV DATE REV DESCRIPTION

NOTES Verify all dimensions on site
Use Dimensions DO NOT SCALE

Prior to completion of works, certificates to

Certification of Footings, Wet Sealing Termite Protection Glazing Certificate Insulation Certificate Plumbing Final Electrical Final Certificate of Occupancy

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

PART 3.7: FIRE SAFETY PART 3.8: WC DOOR

AS 3740: Waterproofing of domestic wet areas AS 3786: Smoke Alarms HOUSING PROVISIONS OF THE BUILDING CODE OF AUSTRALIA:

PART 3.9: STAIRS AND BALUSTRADES





CLIENT Colbert **DENHAMS BEACH DUPLEX**

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

DESCRIPTION **GEOTECHNICAL INVESTIGATION AND WEED REMOVAL 1**

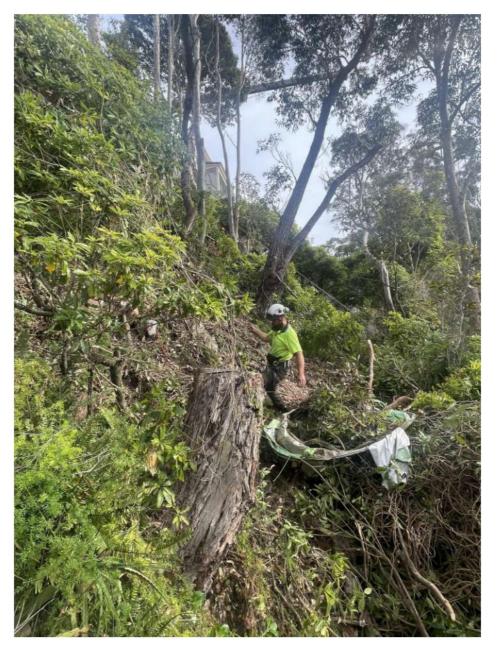
PROJECT STATUS **AUTHORITIES APPROVAL**

DRAWN

SCALE at A3 DATE 13.09.24 indicated JOB NO C0003 CHECKED

J000167 DRAWING NO ISSUE DA-C







09/11/2023 09/11/2023 09/11/2023

NOTES Verify all dimensions on site Use Dimensions DO NOT SCALE



CLIENT Colbert

DENHAMS BEACH DUPLEX

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

PROJECT STATUS **AUTHORITIES APPROVAL** SCALE at A3 DATE 1:100 13.09.24 DESIGNED APA DRAWN APA

CHECKED

NA

JOB NO J000167 DRAWING NO C0004 ISSUE DA-C

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

10 AS 1703. Snow Loading Code

AS 1804. Glass in buildings, section and installation

AS 1684. Framing Code

AS AS 3601. Thermite protection

AS 3740. Walterproofing of domestic wet areas

AS 3740. Walterproofing of domestic wet areas

HOUSING PROVISIONS OF THE BUILDING CODE OF AUSTRALIA:

PART 33.* MASONRY

PART 33.* FRE SAFETY

PART 38. W C DOOR

PART 39. STANS AND BALUSTRADES Use Dimensions DO NOT SCALE
Prior to completion of works, certificates to
be provided to architect and home owner.

1. Certification of Footings, & Structure
2. Wet Sealing
3. Termite Protection
4. Glazing Certificate
5. Insulation Certificate
6. Plumbing Final
7. Electrical Final
8. Certificate of Occupancy LOT 2 DP 773132 @ 217a BEACH ROAD DA-C 13.09.24 Authorities Approval DENHAMS BEACH NSW REV DATE REV DESCRIPTION ISS DATE ISSUE DESCRIPTION







09/11/2023 09/11/2023 09/11/2023

NOTES Verify all dimensions on site Use Dimensions DO NOT SCALE

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 10 AS 1703. Snow Loading Code

 AS 1804. Glass in buildings, section and installation

 AS 1684. Framing Code

 AS AS 3601. Thermite protection

 AS 3740. Walterproofing of domestic wet areas

 AS 3740. Walterproofing of domestic wet areas

 HOUSING PROVISIONS OF THE BUILDING CODE OF AUSTRALIA:

 PART 33.* MASONRY

 PART 33.* FRE SAFETY

 PART 38. W C DOOR

 PART 39. STANS AND BALUSTRADES



CLIENT Colbert

DENHAMS BEACH DUPLEX

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

DESCRIPTION GEOTECHNICAL **INVESTIGATION AND WEED REMOVAL 3 - PHOTOS**

PROJECT STATUS **AUTHORITIES APPROVAL** SCALE at A3 DATE 1:100 13.09.24 JOB NO DESIGNED APA J000167 DRAWN APA

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DA-C 13.09.24 Authorities Approval ISS DATE ISSUE DESCRIPTION

DA-C 13.09.24 Authorities Approval

ISS DATE ISSUE DESCRIPTION

3. REMEDIATION - STRUCTURAL WORKS

NOTES

REV DATE REV DESCRIPTION

Verify all dimensions on site
Use Dimensions DO NOT SCALE

Certification of Footings,
 Wet Sealing
 Termite Protection
 Glazing Certificate
 Insulation Certificate
 Plumbing Final
 Electrical Final
 Certificate of Occupancy

Prior to completion of works, certificates to

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
• ASIN2 300 Plumbing, Drainage & Gas
• ASIN2 300 Plumbing, Drainage & Gas

AS 3786: Smoke Alarms HOUSING PROVISIONS OF THE BUILDING CODE OF

AS 3740: Waterproofing of domestic wet areas

PART 3.9: STAIRS AND BALUSTRADES

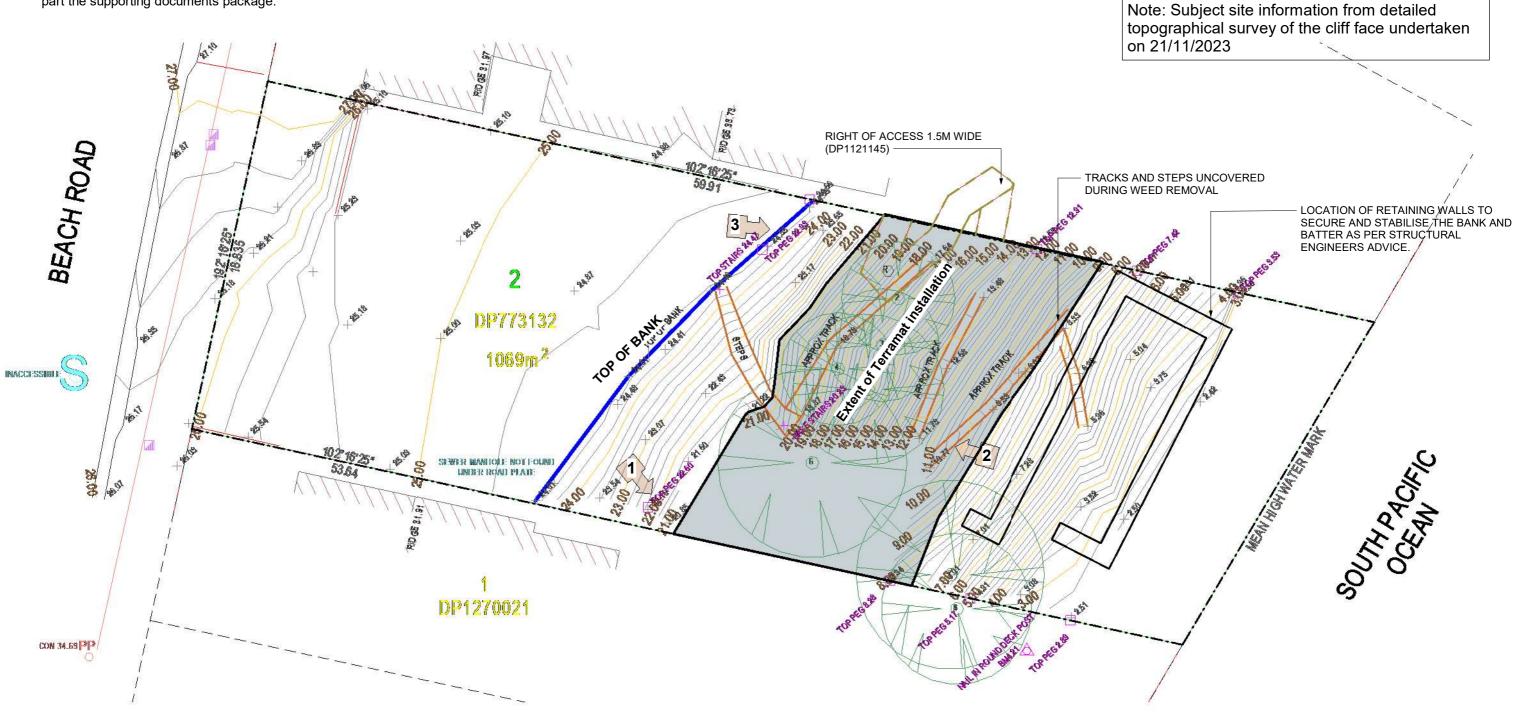
AUSTRALIA:

PART 3.7: FIRE SAFETY PART 3.8: WC DOOR

Weed removal was followed by the installation of Terramat as per structural engineer's advice and design. Terramat, is a lightweight, three dimensional erosion mat designed to provide permanent erosion control of soil and to reinforce the root system of grasses and vegetation. 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.

structural engineer's design diagrams included on Sheet No. C007 and No. C008 and are attached as part the supporting documents package.



adhami pender architecture

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Mawson ACT 2607

CLIENT

Colbert

DENHAMS BEACH DUPLEX

DENHAMS BEACH NSW

LOT 2 DP 773132

@ 217a BEACH ROAD

DESCRIPTION

AND ADVICE 1

PROJECT STATUS

STRUCTURAL PROPOSAL

AUTHORITIES APPROVAL

LEGEND

Site Photos Showing Installation of Terramat

SCALE at A3 DATE

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APA

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13.09.24

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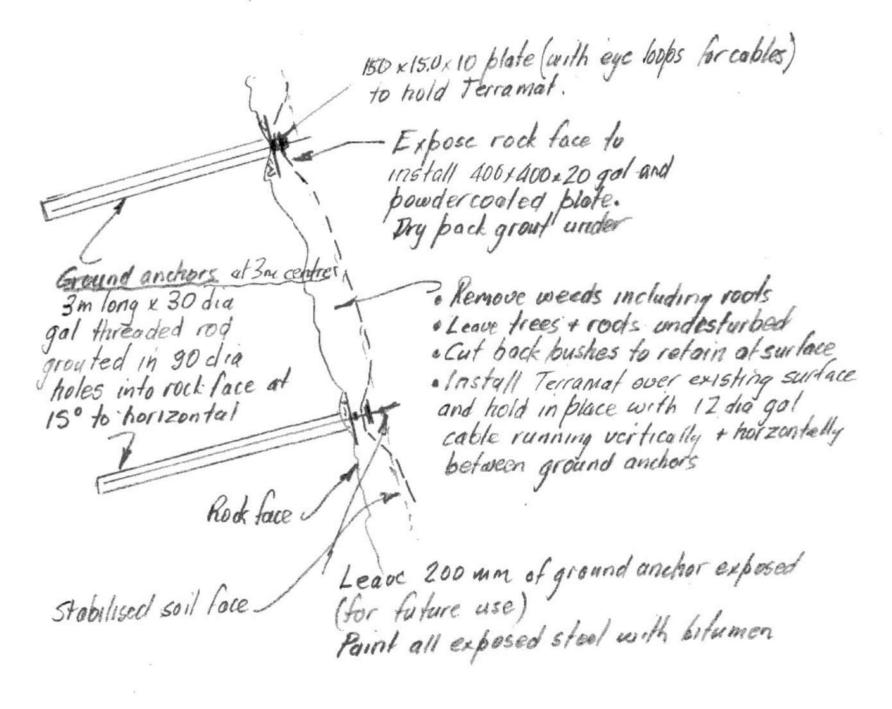
C0006

ISSUE

DA-C

Area of Installation of Terramat

217 Beach Rd, Denhams Beach Slope Stabilisation



Structural Engineer's Terramat Application Detail for Slope Stabilisation

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CLIENT Colbert STRUCTURAL PROPOSAL

AND ADVICE 2 DENHAMS BEACH DUPLEX

LOT 2 DP 773132

@217a BEACH ROAD

DENHAMS BEACH NSW

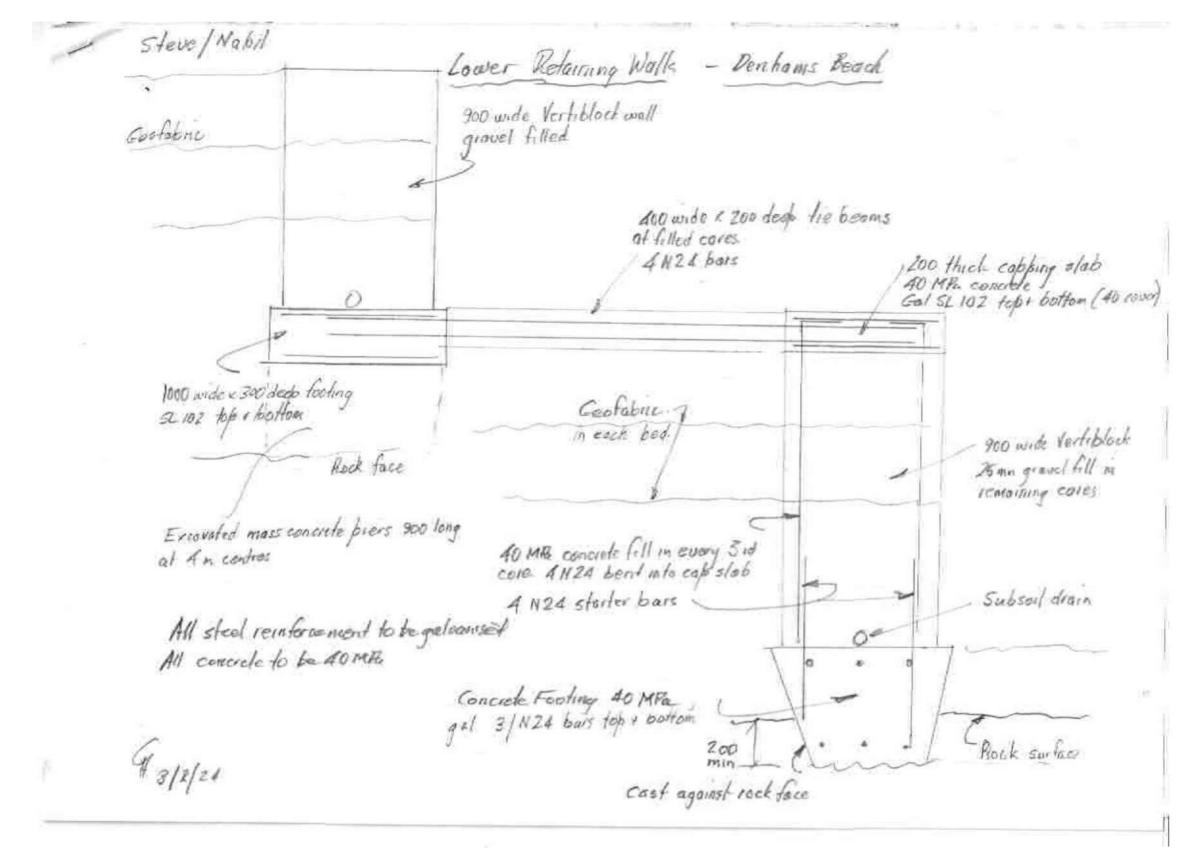
AUTHORITIES APPROVAL

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DA-C 13.09.24 Authorities Approval ISS DATE ISSUE DESCRIPTION REV DATE REV DESCRIPTION

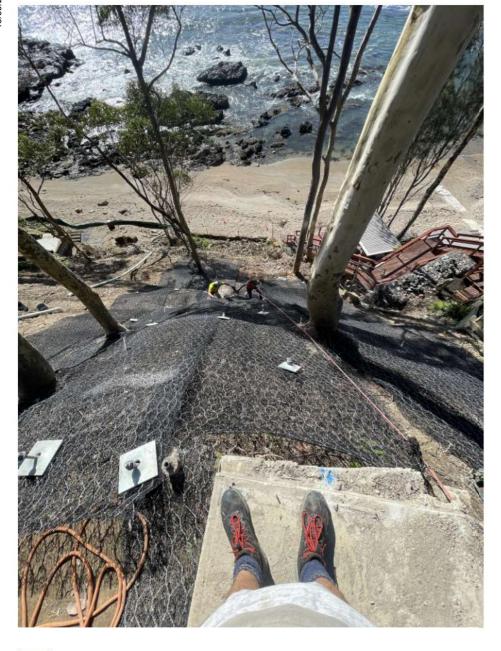


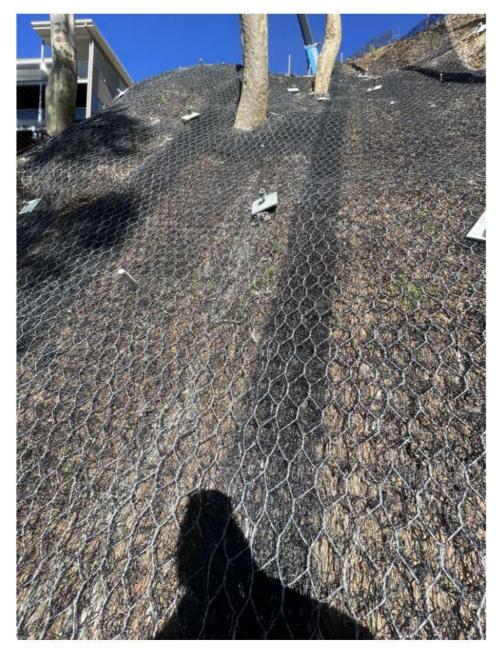
Structural Engineer's Design for Cliff Stabilising Retaining Walls

SCALE at A3 DATE CLIENT DESCRIPTION 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 1286: Glass in buildings, section and installation
• AS 1684: Framing Code
• ASIN2 3500 Plumbling, Drainage & Gas
• ASIN2 3500 Plumbling, Drainage & Gas 13.09.24 Colbert STRUCTURAL PROPOSAL adhami pender architecture Prior to completion of works, certificates to JOB NO **AND ADVICE 3** DESIGNED J000167 Wet Sealing
 Wet Sealing
 Termite Protection
 Glazing Certificate
 Insulation Certificate
 Plumbing Final
 Electrical Final
 Certificate of Occupan DENHAMS BEACH DUPLEX DRAWN DRAWING NO Tel: (02) 62477242 APA C0008 LOT 2 DP 773132 CHECKED ISSUE **AUTHORITIES APPROVAL** @217a BEACH ROAD DA-C DENHAMS BEACH NSW REV DATE REV DESCRIPTION

DA-C 13.09.24 Authorities Approval ISS DATE ISSUE DESCRIPTION







22/12/2023 22/12/2023 30/12/2023

DA-C 13.09.24 Authorities Approval

NOTES Verify all dimensions on site Use Dimensions DO NOT SCALE

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 Prior to completion of works, certificates to
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 4. Glazing Certificate
 5. Insulation 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:

 a. AS 1170.3: Snow Loading Code

 AS 1282: Glass in buildings, section and installation

 AS 1684: Framing Code

 ASIN2 3500 Plumbing, Drainage & Gas

 AS 3660 1: Termite protection

 AS 3740: Waterproofing of domestic wet areas

 AS 3765: Smoke Alarms

 HOUSING PROVISIONS OF THE BUILDING CODE OF AUSTRALIA:
- HOUSING PROVISIONS OF THE BUILD
 AUSTRALIA:
 PART 3.3: MASONRY
 PART 3.7: FRE SAFETY
 PART 3.8: WC DOOR
 PART 3.9: STARS AND BALUSTRADES



CLIENT Colbert

DENHAMS BEACH DUPLEX

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

STRUCTURAL PROPOSAL **AND ADVICE 4 - TERRAMAT** INSTALLATION

PROJECT STATUS **AUTHORITIES APPROVAL** SCALE at A3 DATE 1:100 13.09.24 DESIGNED APA DRAWN APA

CHECKED

NA

JOB NO J000167 DRAWING NO C0009 ISSUE DA-C

REV DATE REV DESCRIPTION ISS DATE ISSUE DESCRIPTION

RIGHT OF ACCESS 1.5M WIDE 4. REMEDIATION - STRUCTURAL WORKS RIGHT OF ACCESS 1.5M WIDE (DP1121145) EXISTING TRACK AND STEPS WERE RE-INSTATED TO PROVIDE SAFE ACCESS TO THE BEACH AHD 7350 AHD 6740 AHD 6130 AHD 5520 AHD 7350 LANDING 100 m APPROX TRACK 5.04 VERTI-BLOCK RETAINING WALLS (RTW) CONSTRUCTED AS PART OF CLIFF STABILIZATION WORK TO STRUCTURAL ENGINEER'S DESIGN AND SPECIFICATIONS. REFER TO STRUCTURAL ENGINEER'S 3.10 DESIGN INCLUDED ON SHEET NO. 0008. VERTI-BLOCK BROCHURE ATTACHED. do TIE BEAMS AS PER ENGINEER'S AHD 7350 REQUIREMENTS. REFER TO STRUCTURAL ENGINEER'S DESIGN INCLUDED ON SHEET NO. 0008 **VEIWING** PLATFORM 350 **GRAVEL AREA** AHD 4300 25 CONSTRUCTION OF WORKS PLAN 1:100

NOTES

Verify all dimensions on site Use Dimensions DO NOT SCALE

All works are to comply with the Building Code of Australia and referenced Australian Standards, including

- · AS 1170.3: Snow Loading Code
- AS 1770. Show 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 3786: Smoke Alarms
 HOUSING PROVISIONS OF THE BUILDING CODE OF AUSTRALIA:
- PART 3.3: MASONRY
- PART 3.7: FIRE SAFETY
- PART 3.8: WC DOOR
 PART 3.9: STAIRS AND BALUSTRADES

Prior to completion of works, certificates to be provided to

- architect and home owner:

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- 2. Wet Sealing
- 3. Termite Protection
- Glazing Certificate
 Insulation Certificate
- 6. Plumbing Final
- 7. Electrical Final
- 8. Certificate of Occupancy

DA-C 13.09.24 Authorities Approval ISS DATE ISSUE DESCRIPTION

REV DESCRIPTION



CLIENT Colbert

PROJECT

DENHAMS BEACH DUPLEX

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

DESCRIPTION

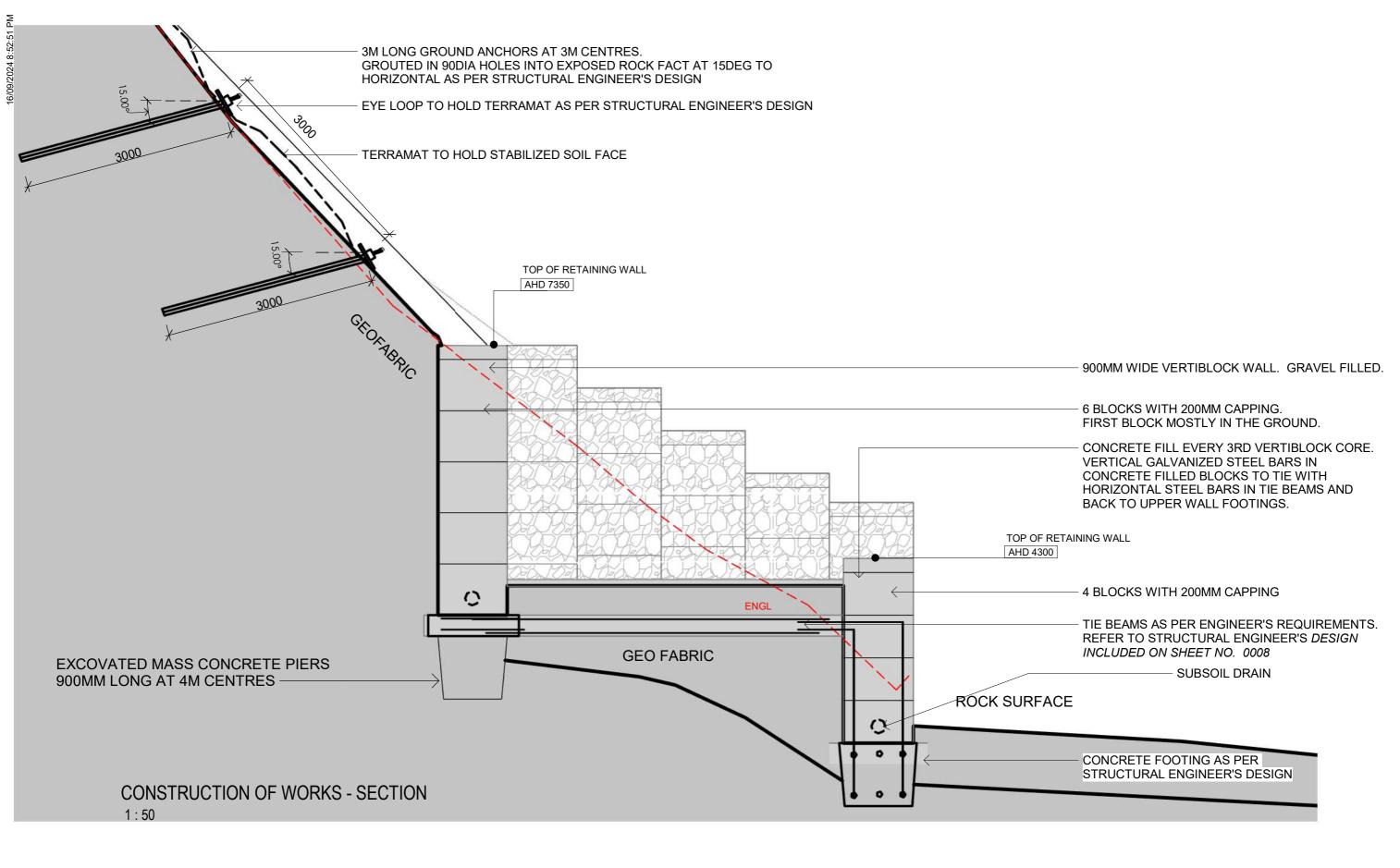
CONSTRUCTION OF WORKS 1 -INTENT OF RETAINING WALLS AND PROPOSED STRUCTURE

PROJECT STATUS

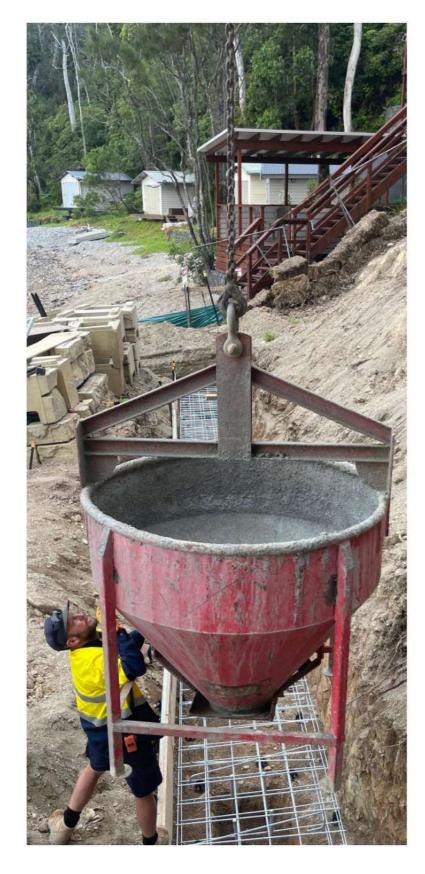
AUTHORITIES APPROVAL

SCALE at A3 1:100 DESIGNED APA DRAWN APA CHECKED NA

DATE 13.09.24 JOB NO J000167 DRAWING NO C0010 ISSUE DA-C

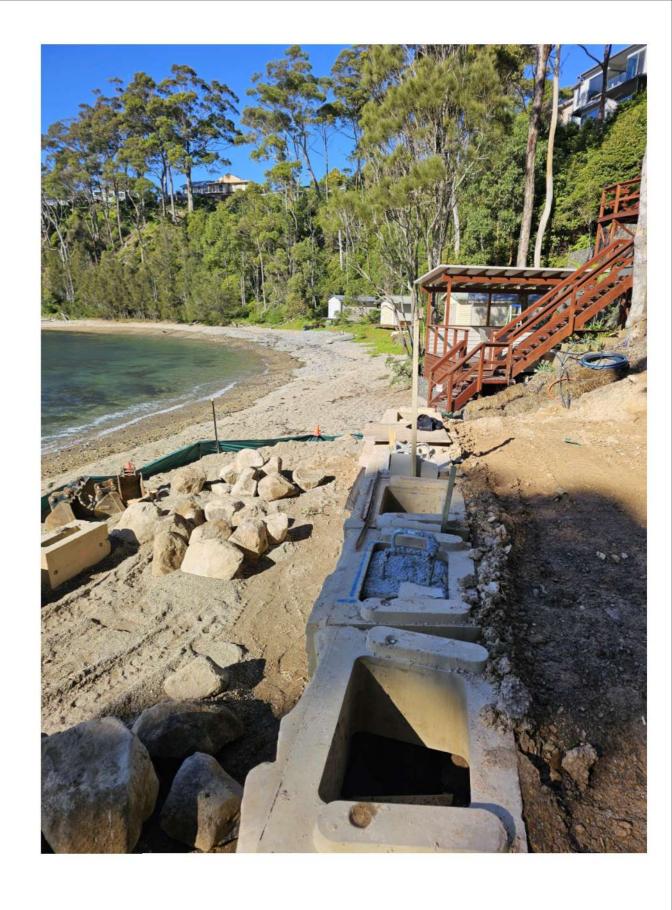














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 8. Certificate of Occupancy

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10 AS 1170.3 Snow Loading Code

11 AS 1283. Glass in buildings, section and installation

12 AS 1284. Framing Code

13 AS 3660.1 Termite protection

14 AS 3740. Waterproofing of domestic wet areas

15 AS 3765. Snoke Alams

16 HOUSING PROVISIONS OF THE BUILDING CODE OF AUSTRALIA:

19 ART 3.3 MASONRY

19 ART 3.7 FRE SAFETY

19 ART 3.5 STARS AND BALUSTRADES



CLIENT Colbert

DENHAMS BEACH DUPLEX

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

CONSTRUCTION OF WORKS 3 - PHOTOS

PROJECT STATUS
AUTHORITIES APPROVAL

SCALE at A3 DATE 13.09.24 JOB NO DESIGNED APA

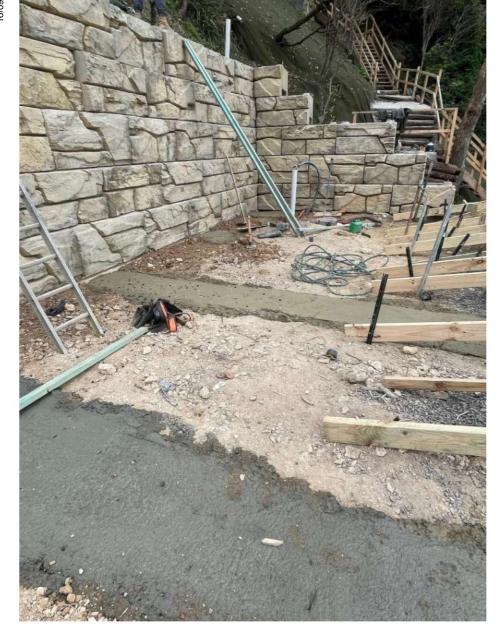
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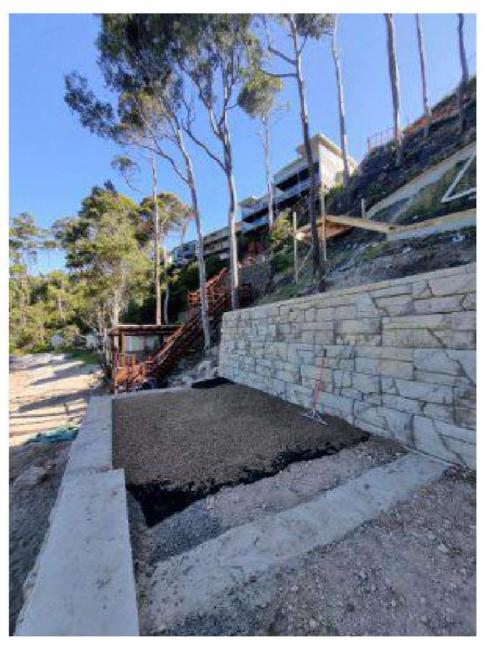
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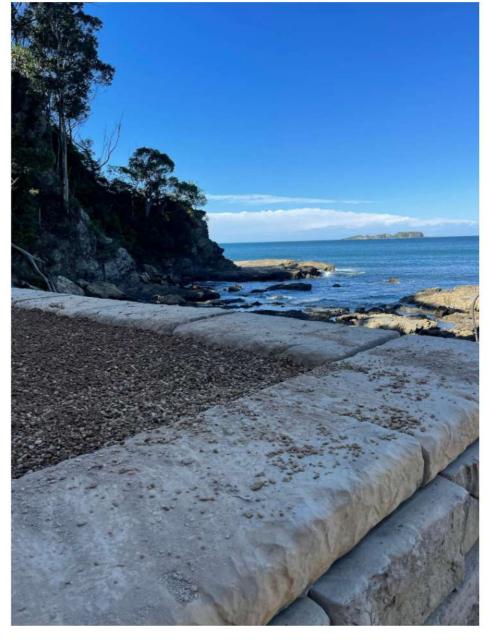
J000167 DRAWING NO DRAWN C0012 CHECKED ISSUE

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DA-C 13.09.24 Authorities Approval ISS DATE ISSUE DESCRIPTION







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 3. Termite Protection

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CLIENT Colbert

DENHAMS BEACH DUPLEX

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

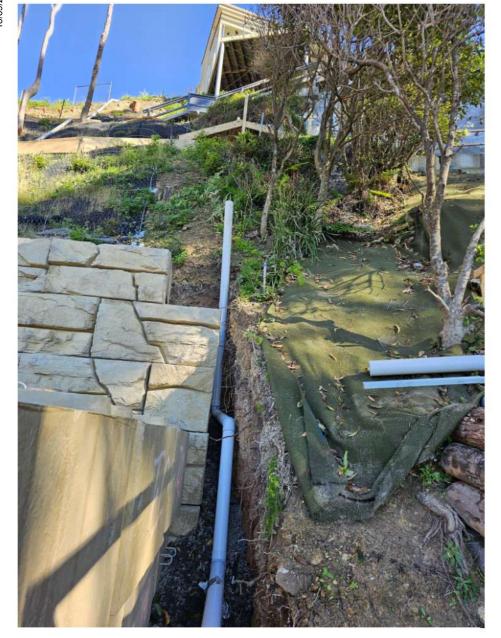
CONSTRUCTION OF WORKS 4 - PHOTOS

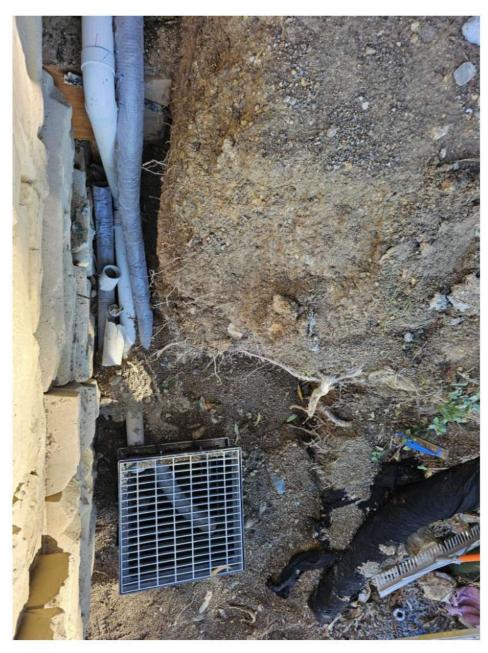
PROJECT STATUS **AUTHORITIES APPROVAL** SCALE at A3 DATE 13.09.24 JOB NO DESIGNED APA DRAWN APA

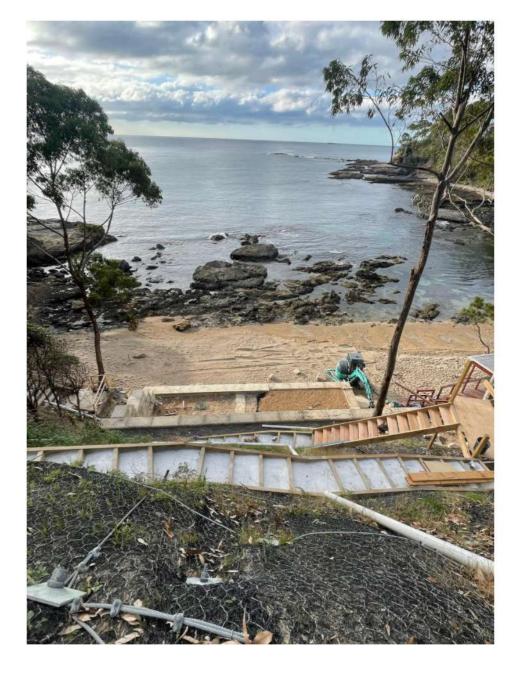
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J000167 DRAWING NO C0013 CHECKED ISSUE DA-C

DA-C 13.09.24 Authorities Approval ISS DATE ISSUE DESCRIPTION







STORMWATER INFRASTRUCTURE

As shown on diagram on Sheet No. C0003

DA-C 13.09.24 Authorities Approval ISS DATE ISSUE DESCRIPTION

REV DATE REV DESCRIPTION

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• AS 1170.3: Snow Loading Code
• AS 1286: Glass in buildings, section and installation
• AS 1684: Framing Code
• ASIN2 3500 Plumbling, Drainage & Gas
• ASIN2 3500 Plumbling, Drainage & Gas

- AS 3740: Waterproofing of domestic wet areas
 - AS 3786: Smoke Alarms HOUSING PROVISIONS OF THE BUILDING CODE OF



CLIENT Colbert

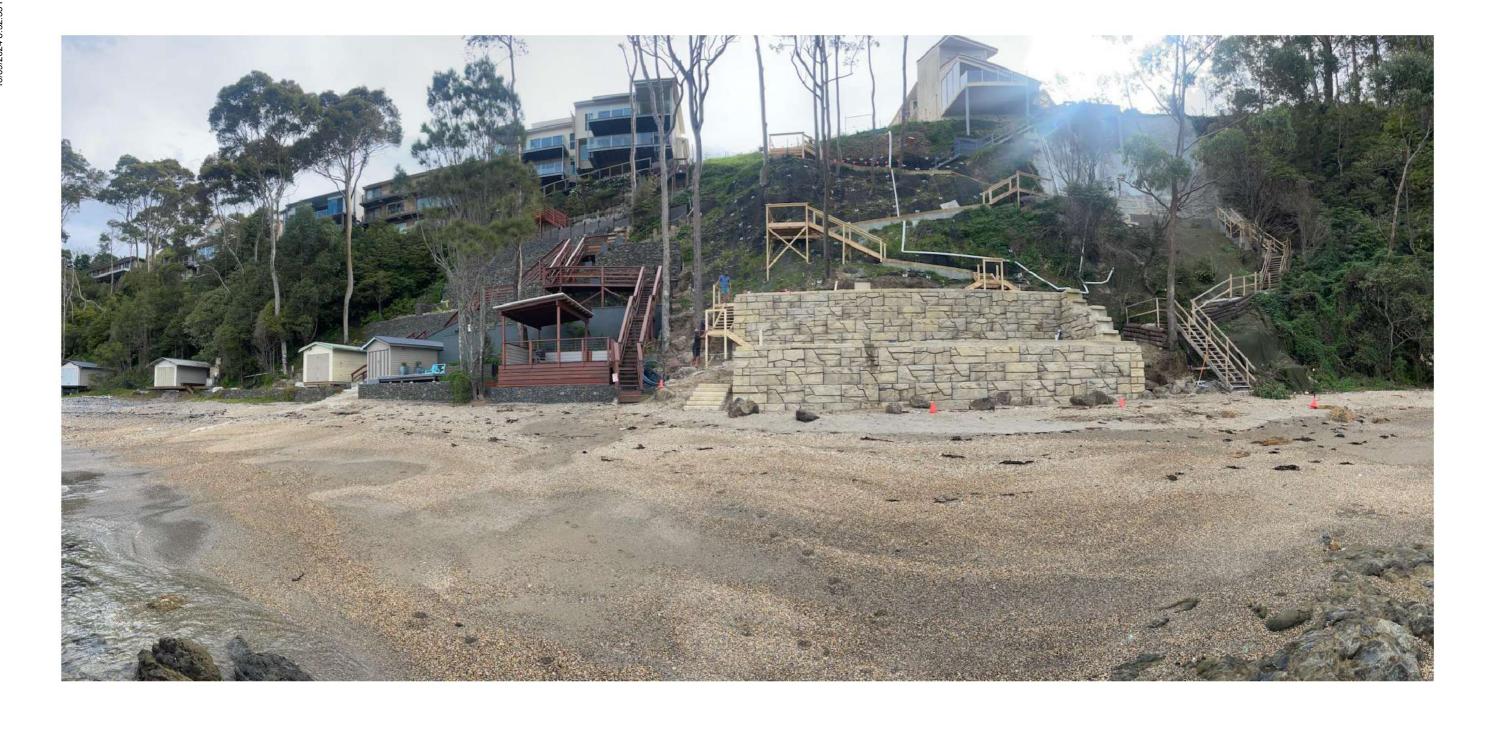
DENHAMS BEACH DUPLEX

LOT 2 DP 773132 @ 217a BEACH ROAD DENHAMS BEACH NSW DESCRIPTION **CONSTRUCTION OF WORKS 5 - PHOTOS**

PROJECT STATUS **AUTHORITIES APPROVAL** SCALE at A3 DATE DESIGNED

13.09.24 JOB NO J000167 DRAWN DRAWING NO

C0014 CHECKED ISSUE DA-C



COMPLETED WORKS

DA-C 13.09.24 Authorities Approval ISS DATE ISSUE DESCRIPTION

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• AS 170.3: Snow Loading Code

• AS 1286: Glass in buildings, section and installation

• AS 1684: Framing Code

• ASIN2 3500 Plumbing, Drainage & Gas

• ASIN2 3500 Plumbing, Drainage & Gas

• ASIN340: Waterproofing of domestic wet areas

• ASIN350: Smoke Alarms

• HOUSING PROVISIONS OF THE BUILDING CODE OF AUSTRALIA:

HOUSING PROVISIONS OF THE BUILD
AUSTRALIA:
PART 3.3: MASONRY
PART 3.7: FRE SAFETY
PART 3.8: WC DOOR
PART 3.9: STARS AND BALUSTRADES



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DENHAMS BEACH DUPLEX

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

DESCRIPTION **CONSTRUCTION OF**

WORKS 6 - PHOTOS

AUTHORITIES APPROVAL

PROJECT STATUS

SCALE at A3 DATE 13.09.24 JOB NO DESIGNED APA DRAWN APA

J000167 DRAWING NO C0015 ISSUE CHECKED DA-C