

NOTES

1. COMPOSITE TOPOGRAPHIC LEVELS GENERATED FROM INFORMATION SUPPLIED BY BRETT LTD INCLUDING REF: SANDON 180121 3D.DWG, RECEIVED ON 18.01.2021.
2. THE EMERGENCY BUTTRESS WORKS HAVE BEEN APPROVED BY THE ENVIRONMENT AGENCY UNDER LOCAL ENFORCEMENT POSITION, DATED: 20.07.2021.
3. WATER LEVEL PRESENTED IS BASED ON THE MOST RECENT SURVEY. HOWEVER, DUE TO OPERATIONAL REASONS THE ACTUAL WATER LEVEL MAY BE LOWER THAN THAT SHOWN ON THE DRAWINGS.

LEGEND

- 10.00 COMPOSITE TOPOGRAPHIC SURVEY LEVEL CONTOURS (mAOD)
- 16.00 PROPOSED BERM LEVEL CONTOURS (mAOD)
- 19.00 PROPOSED EMERGENCY BUTTRESS LEVEL CONTOURS (mAOD)
- 15.00 WATER LEVEL (15mAOD)

VOLUMES

1. VOLUME OF PHASE 1 GRANULAR FILL TO BE PLACED AS PART OF EMERGENCY BUTTRESS WORKS TO 16mAOD:
 - 2,950m³
2. VOLUME OF PHASE 1 FILL TO CONSTRUCT SUB-AQUEOUS BERM AS PART OF EMERGENCY BUTTRESS WORKS TO 15mAOD:
 - 66,300m³
3. VOLUME OF PHASE 1 FILL TO CONSTRUCT BERM AS PART OF EMERGENCY BUTTRESS WORKS ABOVE 15mAOD:
 - 12,800m³
4. VOLUME OF PHASE 1 FILL TO CONSTRUCT EMERGENCY BUTTRESS:
 - 1,710m³

Revision	By	CHK'd By	Date	Comments
0	KW	TD	07/21	

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Site: SANDON QUARRY

Project: NORTHERN VOID DEVELOPMENT

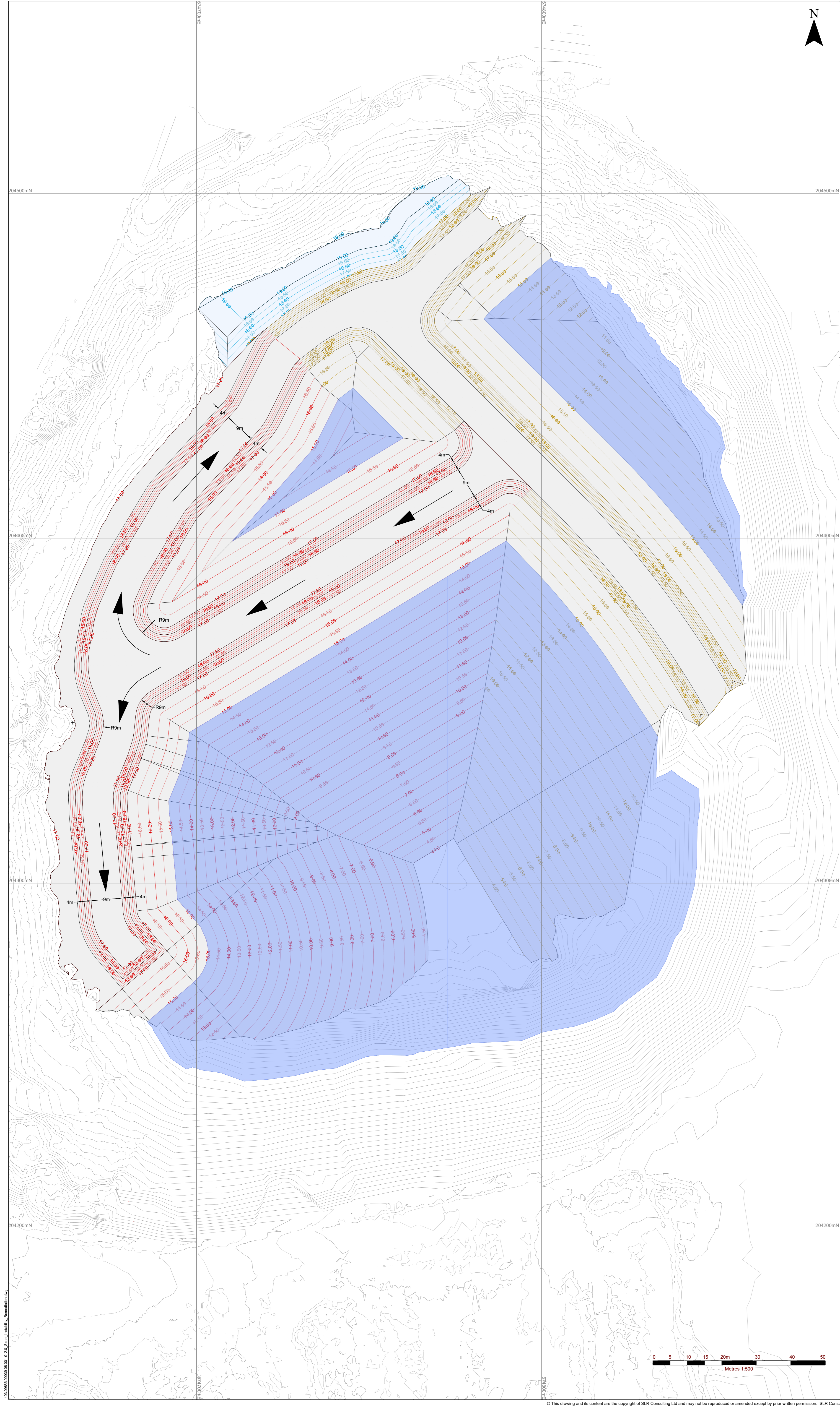
Drawing Title: **PHASE 1 - PROPOSED EMERGENCY BUTTRESS & BERM CONSTRUCTION**

Scale: 1:500 @ A1 Date: JULY 2021

Drawing Number: **001** Revision: **0**

0 5 10 15 20m 30 40 50
Metres 1:500

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LEGEND

- 10.00 COMPOSITE TOPOGRAPHIC SURVEY LEVEL CONTOURS (mAO)
- 16.00 PREVIOUSLY CONSTRUCTED PHASE LEVEL CONTOURS (mAO)
- 19.00 PREVIOUSLY CONSTRUCTED BUTTRESS LEVEL CONTOURS (mAO)
- 16.00 PROPOSED BERM LEVEL CONTOURS (mAO)
- Direction of Working
- WATER LEVEL (15mAO)

VOLUMES

- VOLUME OF PHASE 2 FILL TO CONSTRUCT SUB-AQUEOUS BERM TO 15mAO:
 - 76,600m³
- VOLUME OF PHASE 2 FILL TO CONSTRUCT BERM ABOVE 15mAO:
 - 14,100m³

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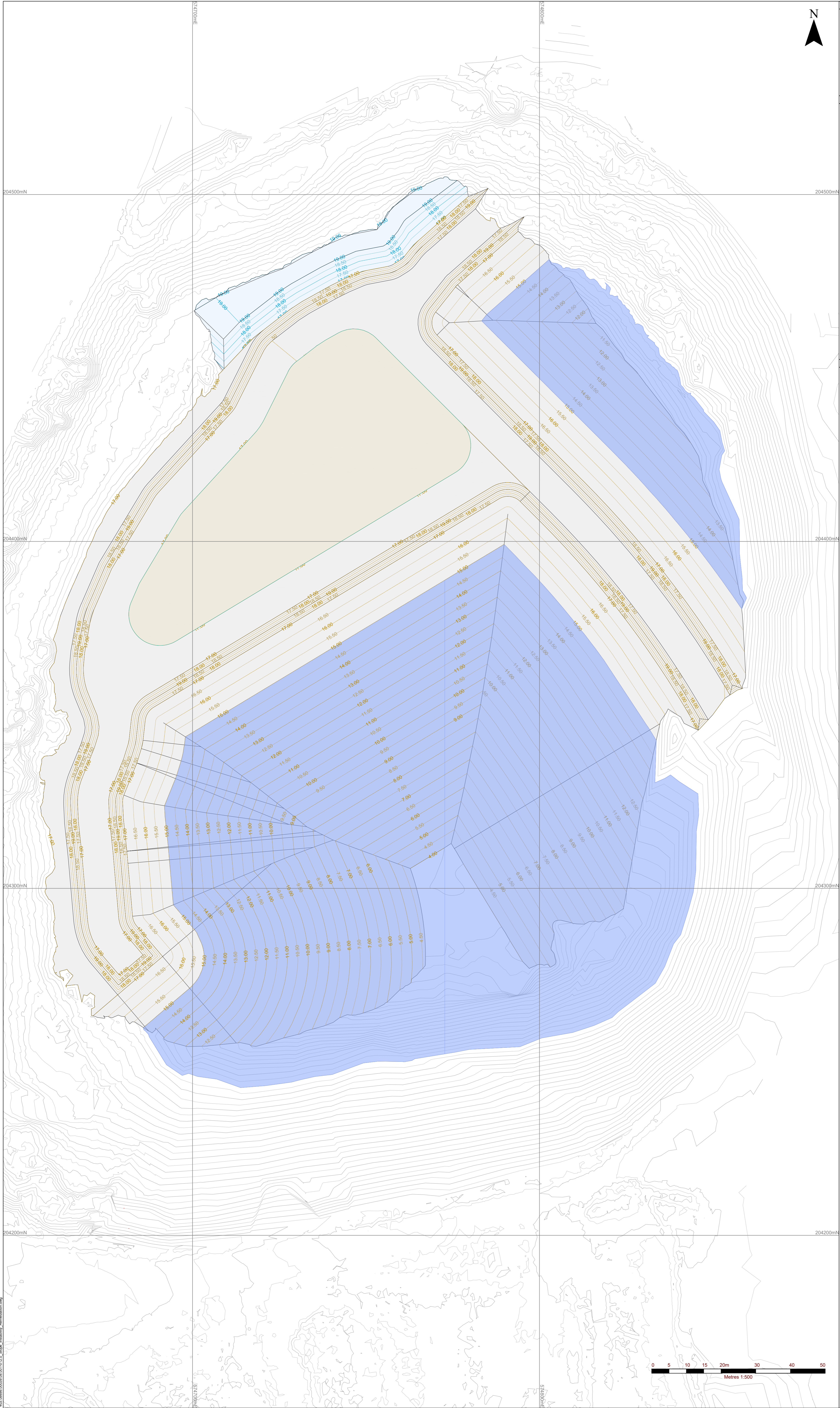
Project: NORTHERN VOID DEVELOPMENT

Drawing Title: **PHASE 2 - PROPOSED BERM**

Scale: 1:500 @ A1 Date: JULY 2021

Drawing Number: **002** Revision: **0**





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LEGEND

- 10.00 COMPOSITE TOPOGRAPHIC SURVEY LEVEL CONTOURS (mAOD)
- 16.00 PREVIOUSLY CONSTRUCTED PHASE LEVEL CONTOURS (mAOD)
- 19.00 PREVIOUSLY CONSTRUCTED BUTTRESS LEVEL CONTOURS (mAOD)
- 15.00 WATER LEVEL (15mAOD)
- 17.00 EXTENT OF INFILLING TO 17mAOD

VOLUMES

1. VOLUME OF PHASE 3 CUT / FILL:

CUT	1.065m ³
FILL	3.535m ³

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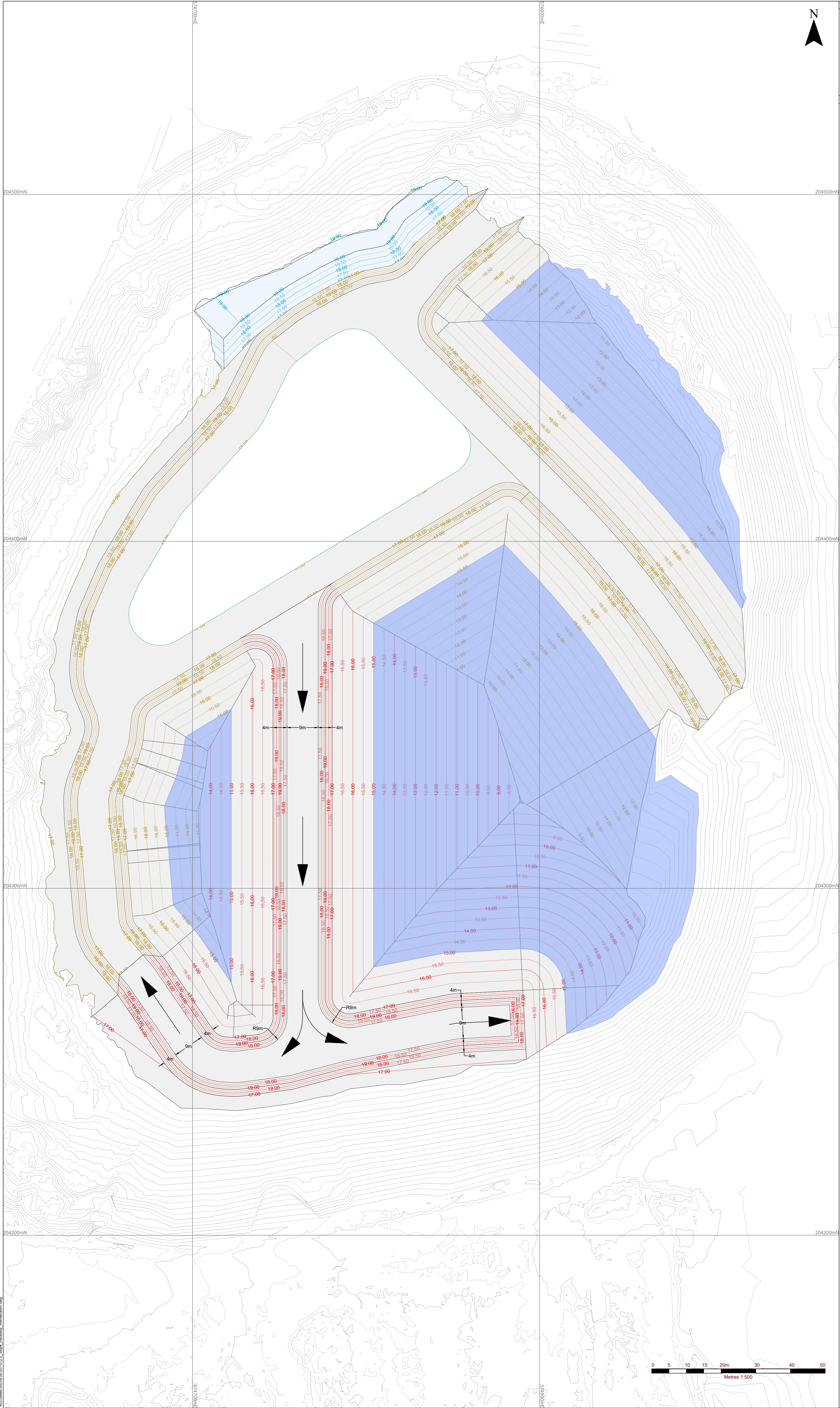
Site: SANDON QUARRY

Project: NORTHERN VOID DEVELOPMENT

Drawing Title: **PHASE 3 - PROPOSED INFILLING**

Scale: 1:500 @ A1	Date: JULY 2021
Drawing Number: 003	Revision: 0





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LEGEND

- 10.00 COMPOSITE TOPOGRAPHIC SURVEY LEVEL CONTOURS (mAOD)
- 16.00 PREVIOUSLY CONSTRUCTED PHASE LEVEL CONTOURS (mAOD)
- 19.00 PREVIOUSLY CONSTRUCTED BUTTRESS LEVEL CONTOURS (mAOD)
- 16.00 PROPOSED BERM LEVEL CONTOURS (mAOD)
- DIRECTION OF WORKING
- WATER LEVEL (15mAOD)

- VOLUMES**
- VOLUME OF PHASE 4 FILL TO CONSTRUCT SUB-AQUEOUS BERM TO 15mAOD:
 - 55,235m³
 - VOLUME OF PHASE 4 FILL TO CONSTRUCT BERM ABOVE 15mAOD:
 - 13,640m³

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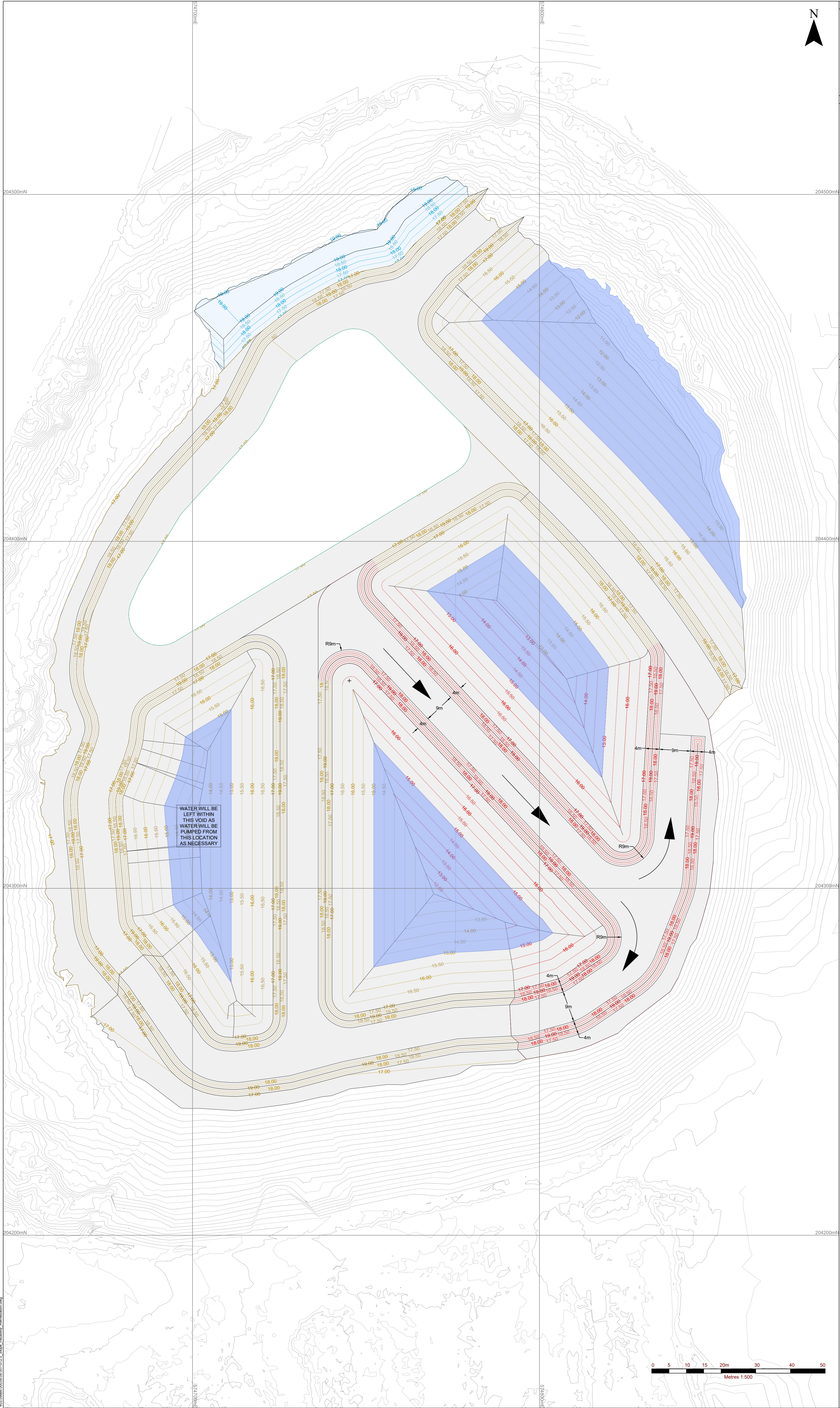
Project: NORTHERN VOID DEVELOPMENT

Drawing Title: **PHASE 4 - PROPOSED BERM**

Scale: 1:500 @ A1 Date: JULY 2021

Drawing Number: **004** Revision: **0**





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LEGEND

- 10.00 COMPOSITE TOPOGRAPHIC SURVEY LEVEL CONTOURS (mAO)
- 16.00 PREVIOUSLY CONSTRUCTED PHASE LEVEL CONTOURS (mAO)
- 19.00 PREVIOUSLY CONSTRUCTED BUTTRESS LEVEL CONTOURS (mAO)
- 16.00 PROPOSED BERM LEVEL CONTOURS (mAO)
- Direction of Working
- WATER LEVEL (15mAO)

- VOLUMES**
- VOLUME OF PHASE 5 FILL TO CONSTRUCT SUB-AQUEOUS BERM TO 15mAO:
 - 20,975m³
 - VOLUME OF PHASE 5 FILL TO CONSTRUCT BERM ABOVE 15mAO:
 - 12,405m³

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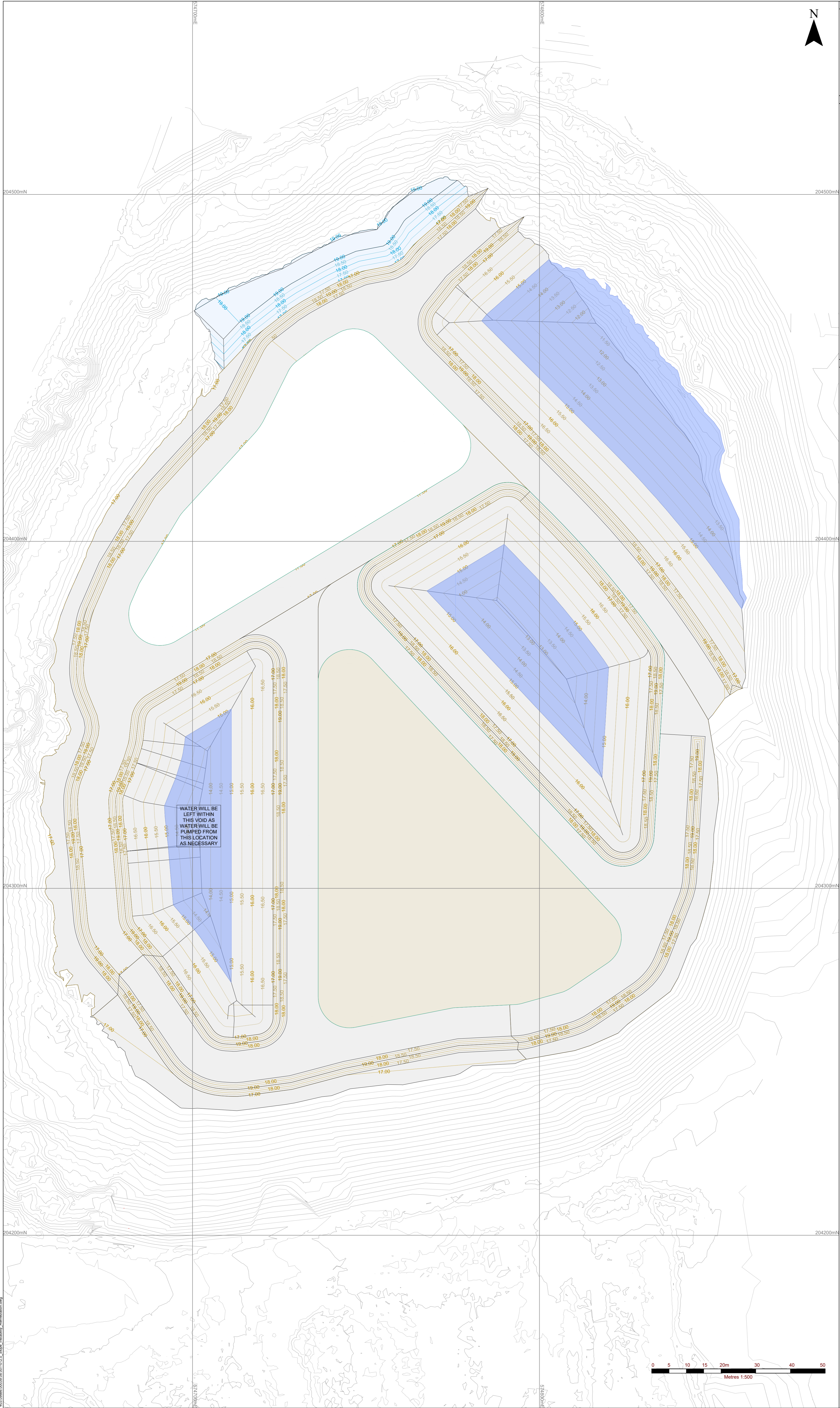
Site: SANDON QUARRY

Project: NORTHERN VOID DEVELOPMENT

Drawing Title: **PHASE 5 - PROPOSED BERM**

Scale: 1:500 @ A1 Date: JULY 2021

Drawing Number: **005** Revision: **0**



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LEGEND

- 10.00 COMPOSITE TOPOGRAPHIC SURVEY LEVEL CONTOURS (mAOD)
- 16.00 PREVIOUSLY CONSTRUCTED PHASE LEVEL CONTOURS (mAOD)
- 19.00 PREVIOUSLY CONSTRUCTED BUTTRISS LEVEL CONTOURS (mAOD)
- 15.00 WATER LEVEL (15mAOD)
- 17.00 EXTENT OF INFILLING TO 17mAOD

VOLUMES

1. VOLUME OF PHASE 6 CUT / FILL

CUT	1.238m ³
FILL	7.885m ³

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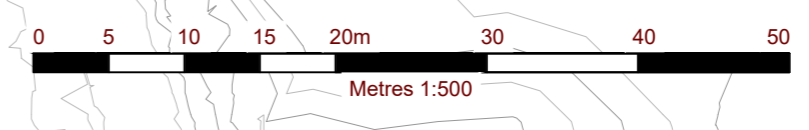
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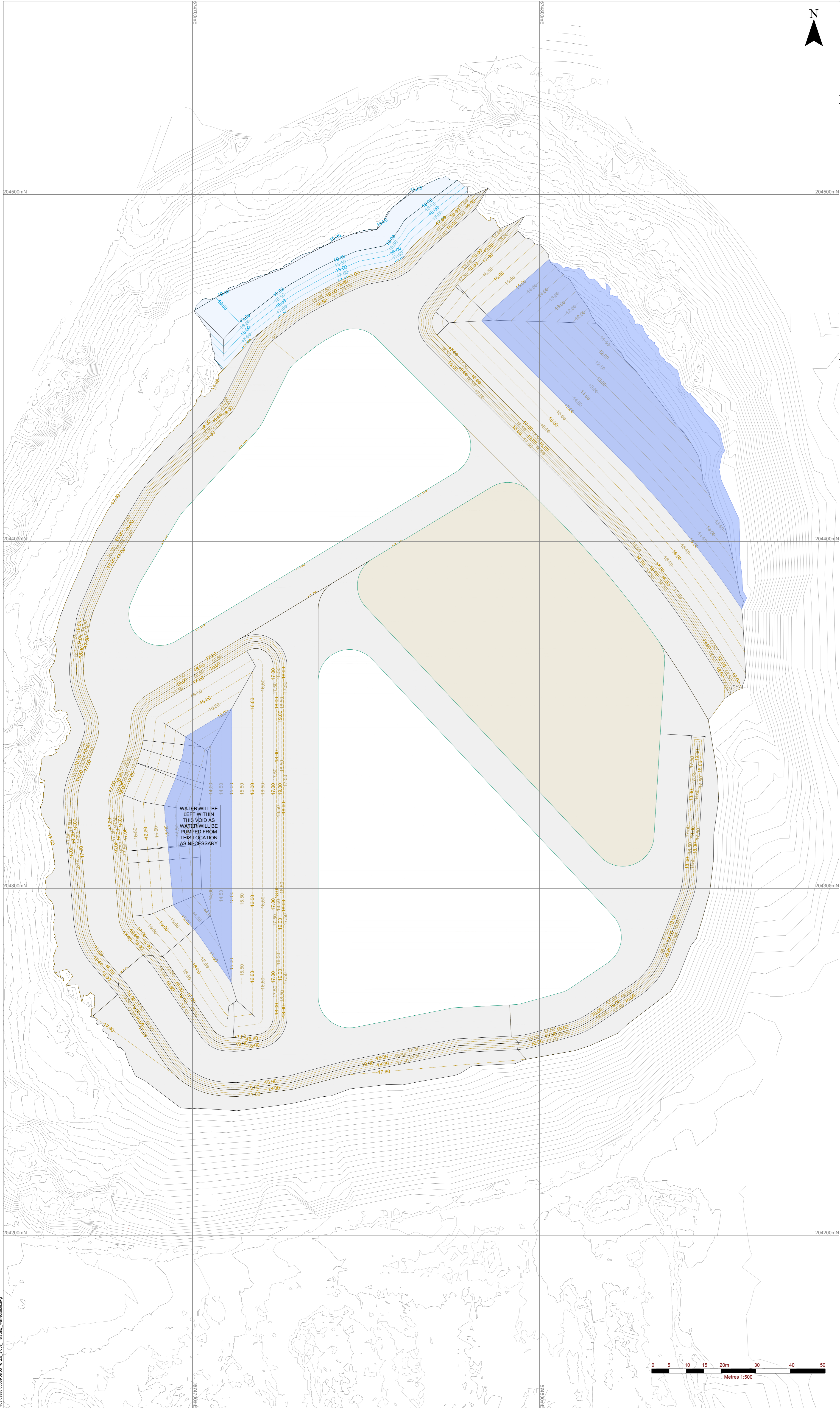
Project: NORTHERN VOID DEVELOPMENT

Drawing Title: **PHASE 6 - PROPOSED INFILLING**

Scale: 1:500 @ A1 Date: JULY 2021

Drawing Number: **006** Revision: **0**





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LEGEND

- 10.00 COMPOSITE TOPOGRAPHIC SURVEY LEVEL CONTOURS (mAOD)
- 16.00 PREVIOUSLY CONSTRUCTED PHASE LEVEL CONTOURS (mAOD)
- 19.00 PREVIOUSLY CONSTRUCTED BUTTRESS LEVEL CONTOURS (mAOD)
- 15.00 WATER LEVEL (15mAOD)
- 17.00 EXTENT OF INFILLING TO 17mAOD

VOLUMES

1. VOLUME OF PHASE 7 CUT / FILL

CUT	1.156m ³
FILL	6.841m ³

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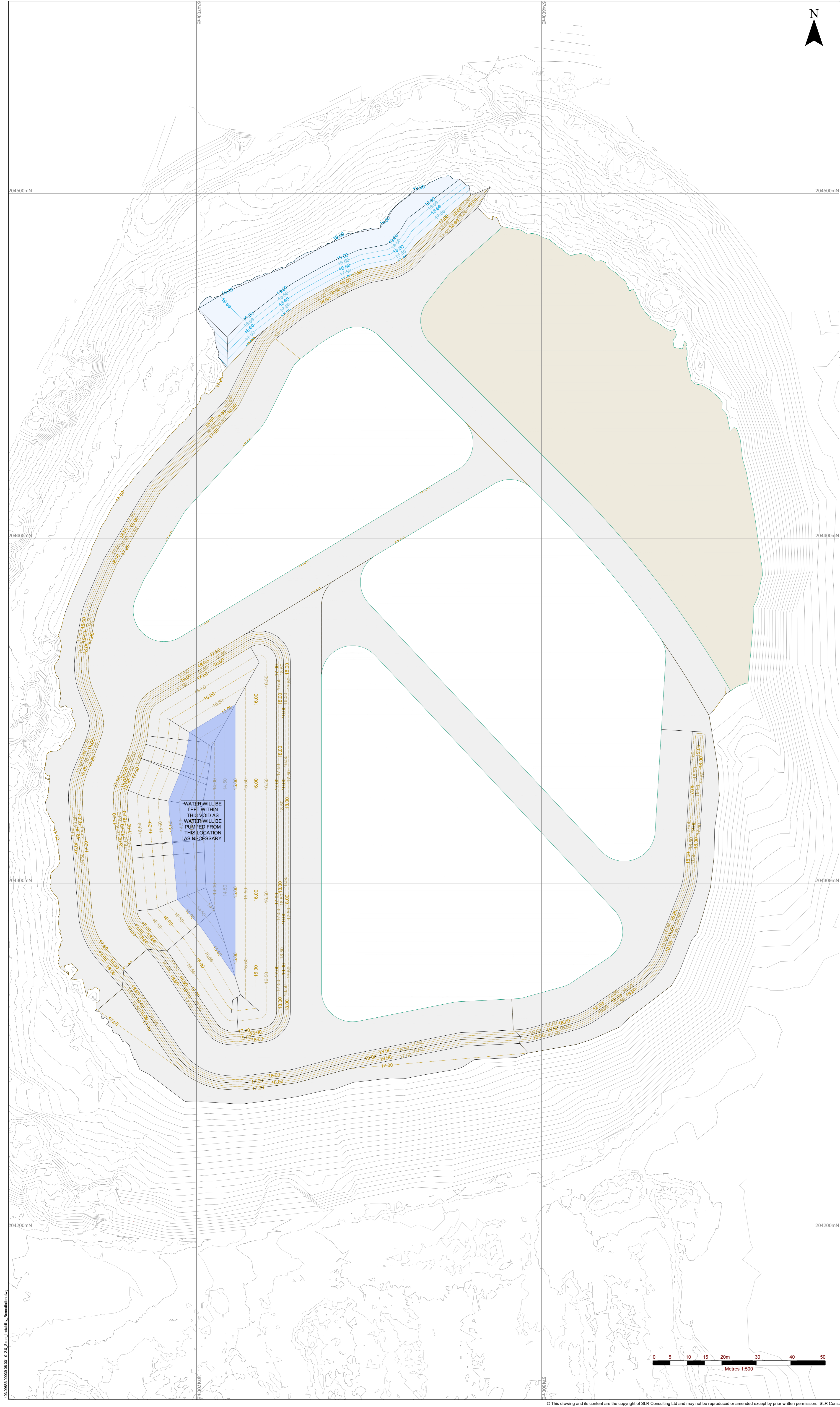
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Project: NORTHERN VOID DEVELOPMENT

Drawing Title: **PHASE 7 - PROPOSED INFILLING**

Scale: 1:500 @ A1	Date: JULY 2021
Drawing Number: 007	Revision: 0





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LEGEND

- 10.00 COMPOSITE TOPOGRAPHIC SURVEY LEVEL CONTOURS (mAOD)
- 16.00 PREVIOUSLY CONSTRUCTED PHASE LEVEL CONTOURS (mAOD)
- 19.00 PREVIOUSLY CONSTRUCTED BUTTRESS LEVEL CONTOURS (mAOD)
- 15.00 WATER LEVEL (15mAOD)
- 17.00 EXTENT OF INFILLING TO 17mAOD

VOLUMES

1. VOLUME OF PHASE 8 CUT / FILL

CUT	-	704m ³
FILL	-	11,495m ³

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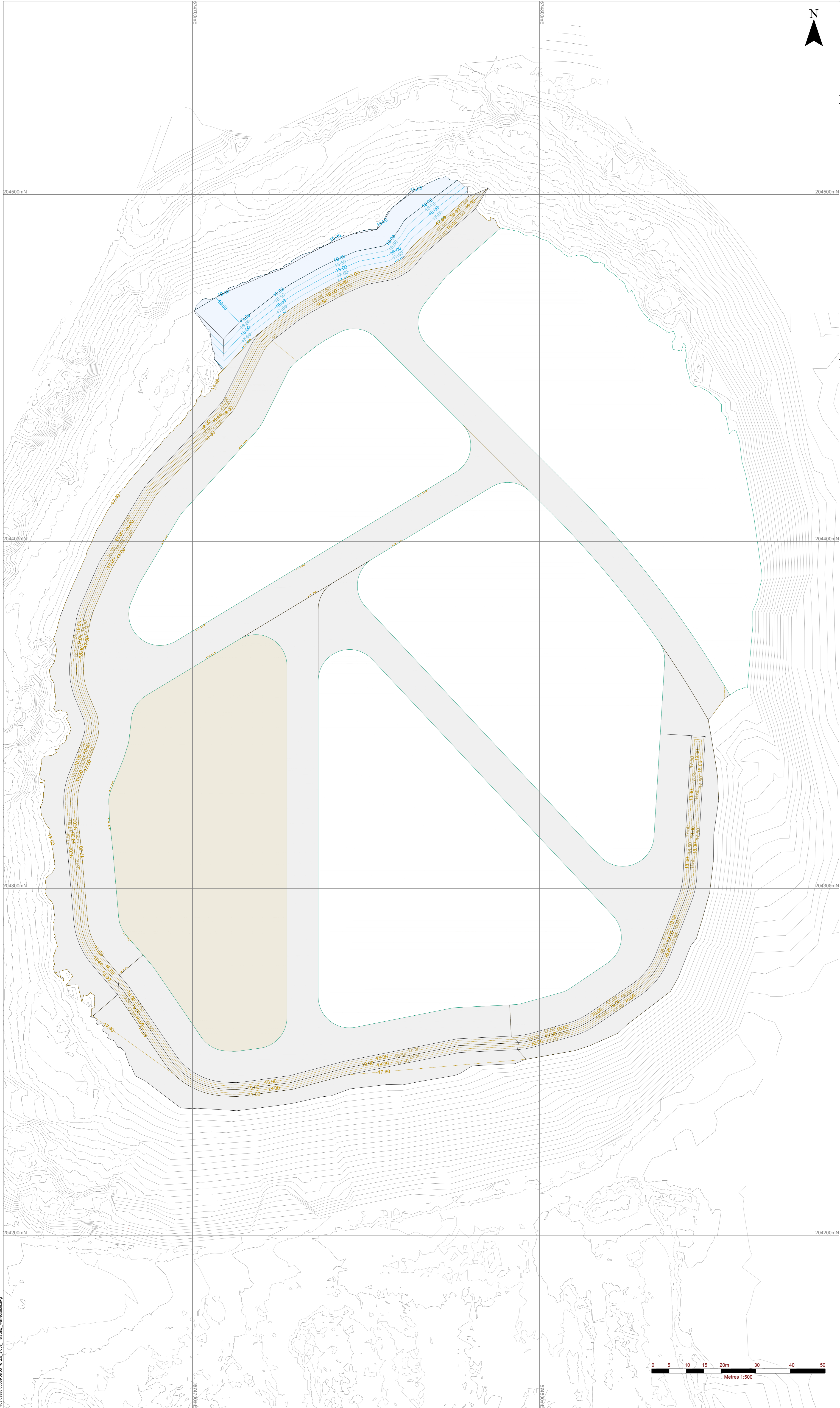
Project
NORTHERN VOID DEVELOPMENT

Drawing Title
PHASE 8 - PROPOSED INFILLING

Scale 1:500 @ A1	Date JULY 2021
Drawing Number 008	Revision 0



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LEGEND

- COMPOSITE TOPOGRAPHIC SURVEY LEVEL CONTOURS (mAOD)
- PREVIOUSLY CONSTRUCTED PHASE LEVEL CONTOURS (mAOD)
- PREVIOUSLY CONSTRUCTED BUTTRESS LEVEL CONTOURS (mAOD)
- EXTENT OF INFILLING TO 17mAOD

VOLUMES

1. VOLUME OF PHASE 9 CUT / FILL
 CUT - 1.104m³
 FILL - 5.306m³

0	KW	TD	07/21	
Revision	By	CHK'd By	Date	Comments



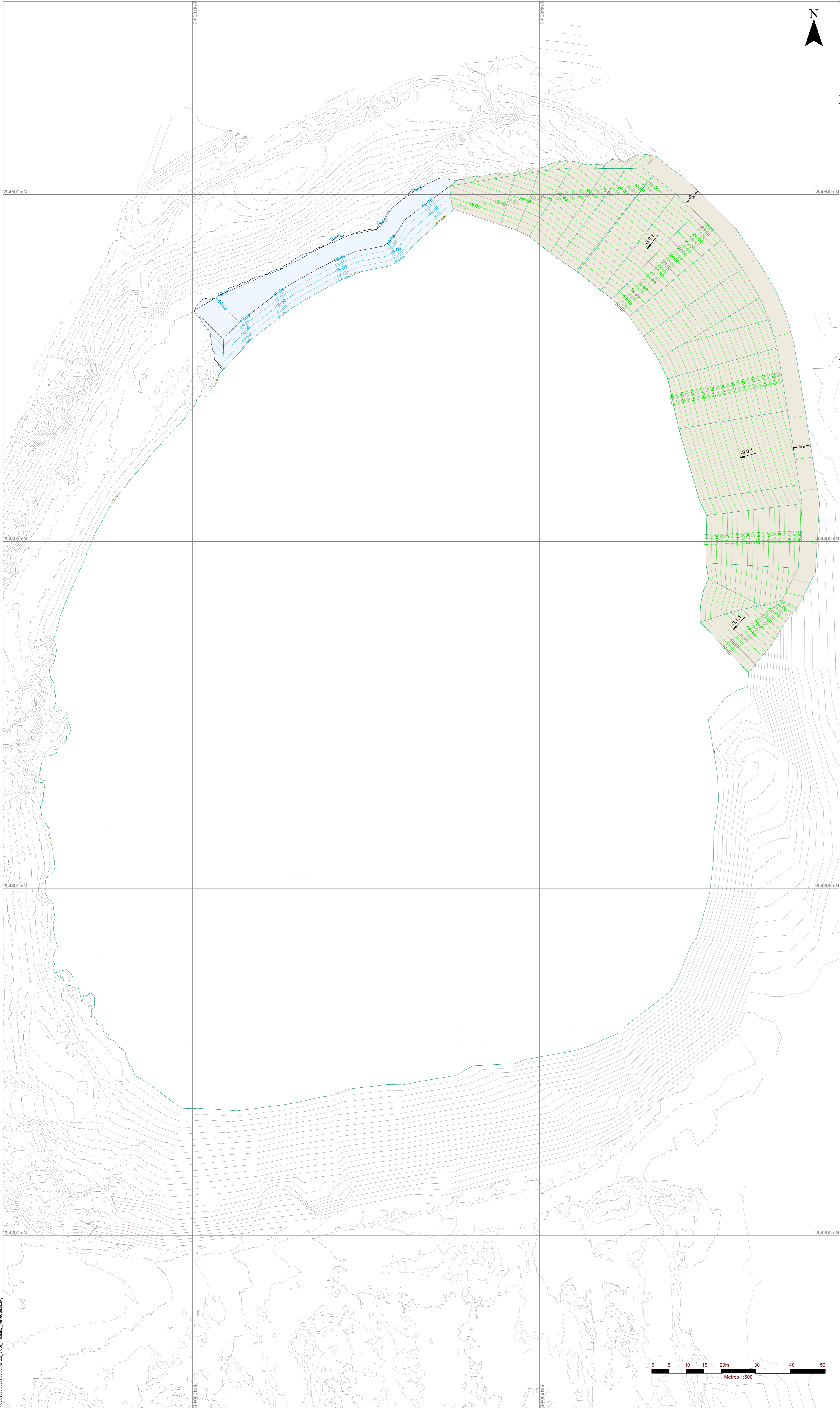
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Drawing Title: **PHASE 9 - PROPOSED INFILLING**

Scale: 1:500 @ A1	Date: JULY 2021
Drawing Number: 009	Revision: 0



NOTES

1. COMPOSITE TOPOGRAPHIC LEVELS
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LEGEND

- COMPOSITE TOPOGRAPHIC SURVEY LEVEL CONTOURS (mAOD)
- PREVIOUSLY CONSTRUCTED BUTTRISS LEVEL CONTOURS (mAOD)
- PROPOSED ADDITIONAL INFILLING LEVEL CONTOURS (mAOD)

VOLUMES

1. VOLUME OF PHASE 10 CUT / FILL

CUT	2.142m³
FILL	10.980m³

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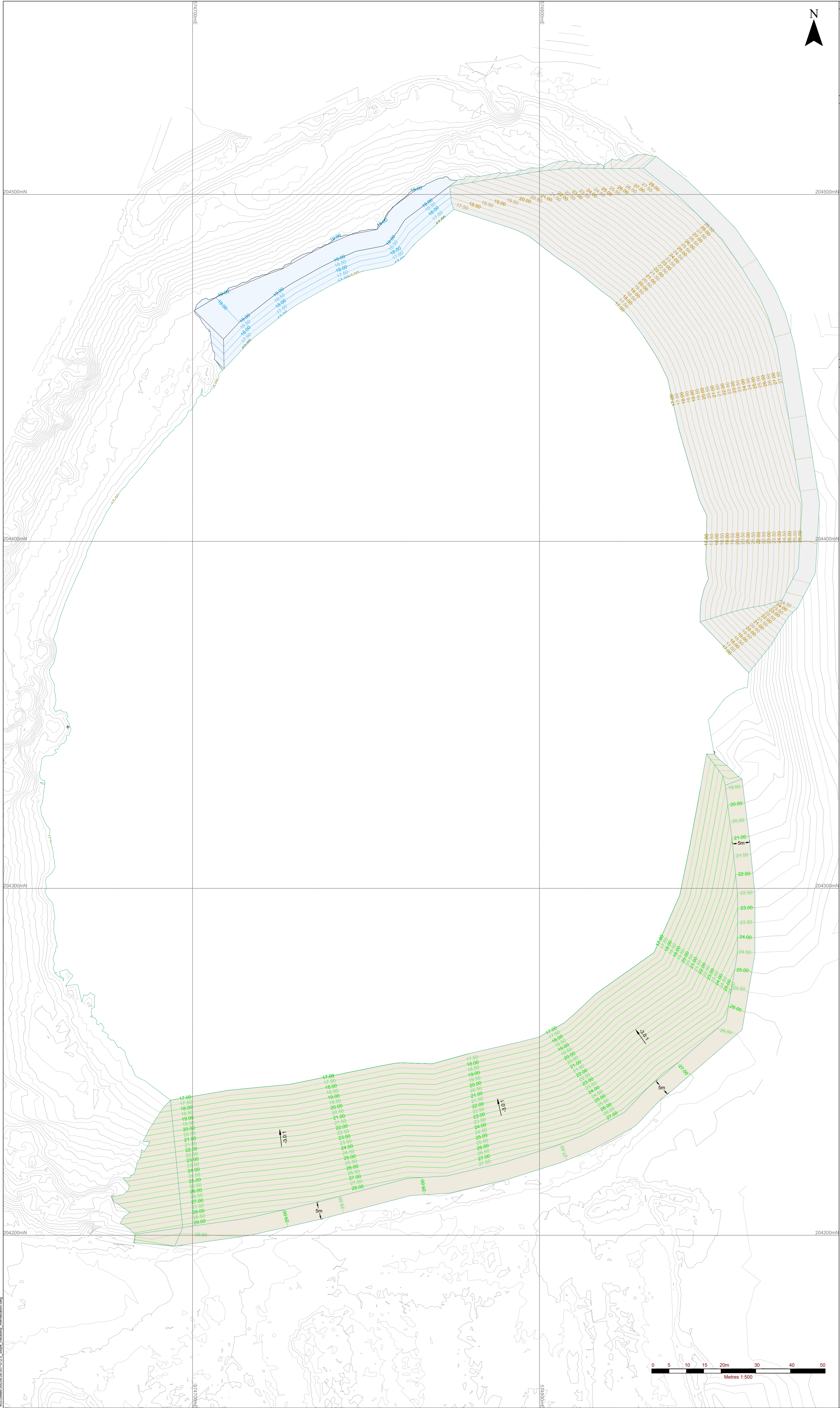
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Drawing Title
PHASE 10 - PROPOSED INFILLING

Scale 1:500 @ A1	Date JULY 2021
Drawing Number 010	Revision 0



NOTES

1. COMPOSITE TOPOGRAPHIC LEVELS
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LEGEND

- 10.00 COMPOSITE TOPOGRAPHIC SURVEY LEVEL CONTOURS (mAOD)
- 16.00 PREVIOUSLY CONSTRUCTED PHASE LEVEL CONTOURS (mAOD)
- 19.00 PREVIOUSLY CONSTRUCTED BUTTRESS LEVEL CONTOURS (mAOD)
- 20.00 PROPOSED ADDITIONAL INFILLING LEVEL CONTOURS (mAOD)

VOLUMES

1. VOLUME OF PHASE 11 FILL

- 13,835m³

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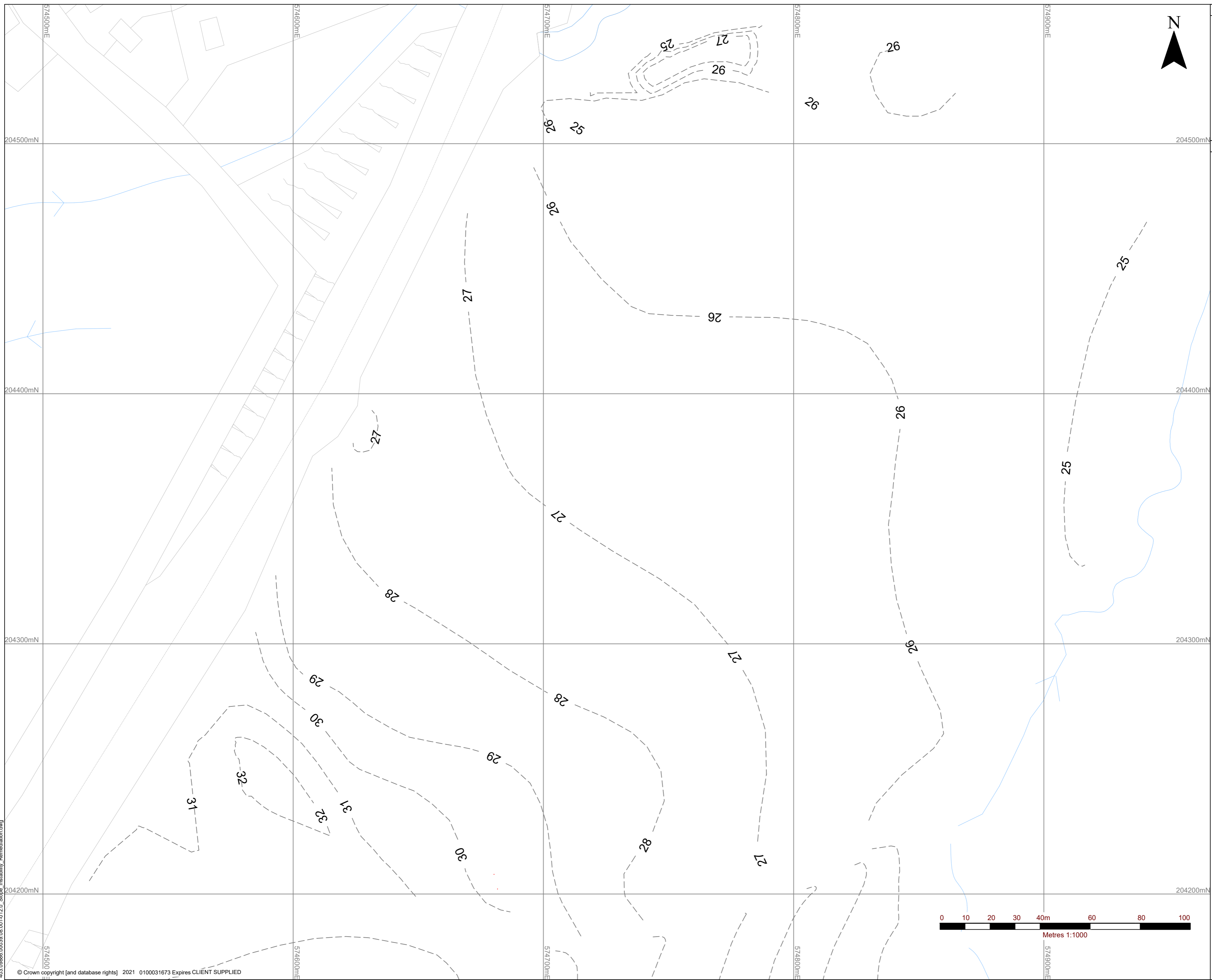
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Project: NORTHERN VOID DEVELOPMENT

Drawing Title: **PHASE 11 - PROPOSED INFILLING**

Scale: 1:500 @ A1	Date: JULY 2021
Drawing Number: 011	Revision: 0





NOTES

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LEGEND

PROPOSED POST SETTLEMENT LEVEL CONTOUR (mAD)

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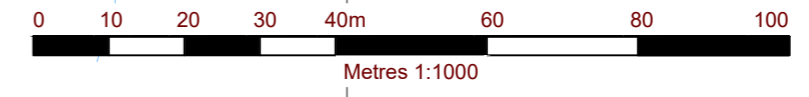
Drawing Title
PHASE 12 - FINAL RESTORATION

Scale
1:1000 @ A2

Date
JULY 2021

Drawing Number
012

Revision
0



403.09886.00039.08.001-012.0_Slope_Instability_Remediation.dwg