



Northern Coal Services

SSD-5145 Modification 4

Amendment Report

August 2025

Northern Coal Services

Amendment Report for Modification 4 to SSD-5145

Company/s

Centennial Northern Coal Services Pty Limited

Date

12 August 2025

Version

FINAL

Prepared by

Ron Bush

General Manager – Development & Approvals

Executive Summary

Northern Coal Services

Centennial Northern Coal Services (**NCS**) operations are located on the western side of Lake Macquarie, approximately 25 kilometres (**km**) south-west of Newcastle 140 km north of Sydney. NCS operations comprises of surface Coal Handling and Preparation Plant (**CHPP**) facilities at the Newstan Colliery Surface Site (**NCSS**) and Cooranbong Entry Site (**CES**), as well as private haul roads connecting Newstan Colliery, Awaba Colliery, CES and Eraring Power Station. NCS facilities are integral to the handling, processing and transport of coal from Newstan colliery (via conveyor) and Mandalong Mine (via an underground conveyor to CES then via private haul road to NCSS).

Proposed Modification

NCS is seeking to modify the development consent SSD-5145 (**MOD 4**) to allow for:

- The development of the existing coal stockpile at the Cooranbong Entry Site to increase capacity from 100,000 tonnes to 400,000 tonnes;
- The construction of infrastructure associated with the modified stockpile footprint. This will include access tracks, lighting towers, water sprays, fencing and water management infrastructure; and
- An administrative update to the SSD-5145 Schedule of Land.

Proposed Amendment

The proposed project amendment consists of reduction of the footprint of the proposed coal stockpile extension from 2.97 hectares to 2.93 hectares.

The purpose of the project amendment is to ensure that the proposed stockpile extension is exclusively sited on Lot 7306 DP11642 to address issues raised with the application of the Streamlined Biodiversity Development Assessment Report (**BDAR**).

Impact Assessment

This Amendment Report assesses the potential impacts from the proposed project amendment.

The proposed project amendment is minor in nature and reduces the disturbance footprint of the proposed stockpile expansion by approximately 0.04 hectares and will have no significant environmental impacts.

Conclusion

The proposed amendment is considered to be consistent with the Northern Coal Services SSD-5145 consent and will not change the nature of the development originally approved.

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1 Introduction

1.1 Northern Coal Services

Centennial Northern Coal Services (**NCS**) operations are located on the western side of Lake Macquarie, approximately 25 kilometres (km) south-west of Newcastle and 140 km north of Sydney. NCS operations comprises the surface Coal Handling and Preparation Plant (**CHPP**) facilities at the Newstan Colliery Surface Site (**NCSS**) and Cooranbong Entry Site (**CES**), as well as private haul roads connecting Newstan Colliery, Awaba Colliery, CES and Eraring Power Station. NCS facilities are integral to the handling, processing and transport of coal from Newstan Colliery (via conveyor) and Mandalong Mine (via an underground conveyor to CES then via private haul road to NCSS).

The regional locality and the NCS extent is shown on **Figure 1**.

NCS operates under State Significant Development (**SSD**) consent SSD-5145, which was granted by the Minister for Planning on 29 September 2015. This approval has been modified on three occasions, the most recent (MOD5) was approved in July 2025.

SSD-5145 is approved for:

- Upgrades to coal handling and train loading infrastructure;
- Processing of up to 8 Mtpa ROM coal through the NCS CHPP, representing ROM coal supplied from Newstan Colliery (up to 4.5 Mtpa), Mandalong Mine (up to 6 Mtpa), and Awaba Colliery (up to 0.88 Mtpa);
- Transporting up to 8 Mtpa of product coal through the NCS rail loading facilities by train to the Port of Newcastle;
- Transporting up to 6 Mtpa of product coal via overland conveyor to Eraring Power Station;
- Transporting up to 4.5 Mtpa of product coal by truck to Eraring Power Station utilising the Newstan-Eraring private haul road;
- Receiving coal from CES and coal and stone material from Awaba Colliery by truck utilising the Cooranbong and Newstan-Eraring private haul roads; and
- Transporting reject material from the NCS CHPP to the Northern and Southern Reject Emplacement Areas and Hawkmount Quarry.



1.2 Modification 4 Overview

NCS is seeking to modify the development consent SSD-5145 to allow for:

- The development of the existing coal stockpile at the CES to increase capacity from 100,000 tonnes to 400,000 tonnes;
- The construction of infrastructure associated with the modified stockpile footprint, including access tracks, lighting towers, water sprays, fencing and water management infrastructure; and
- An administrative update to the SSD-5145 Schedule of Land.

The proposed modification extent is shown on **Figure 2**.

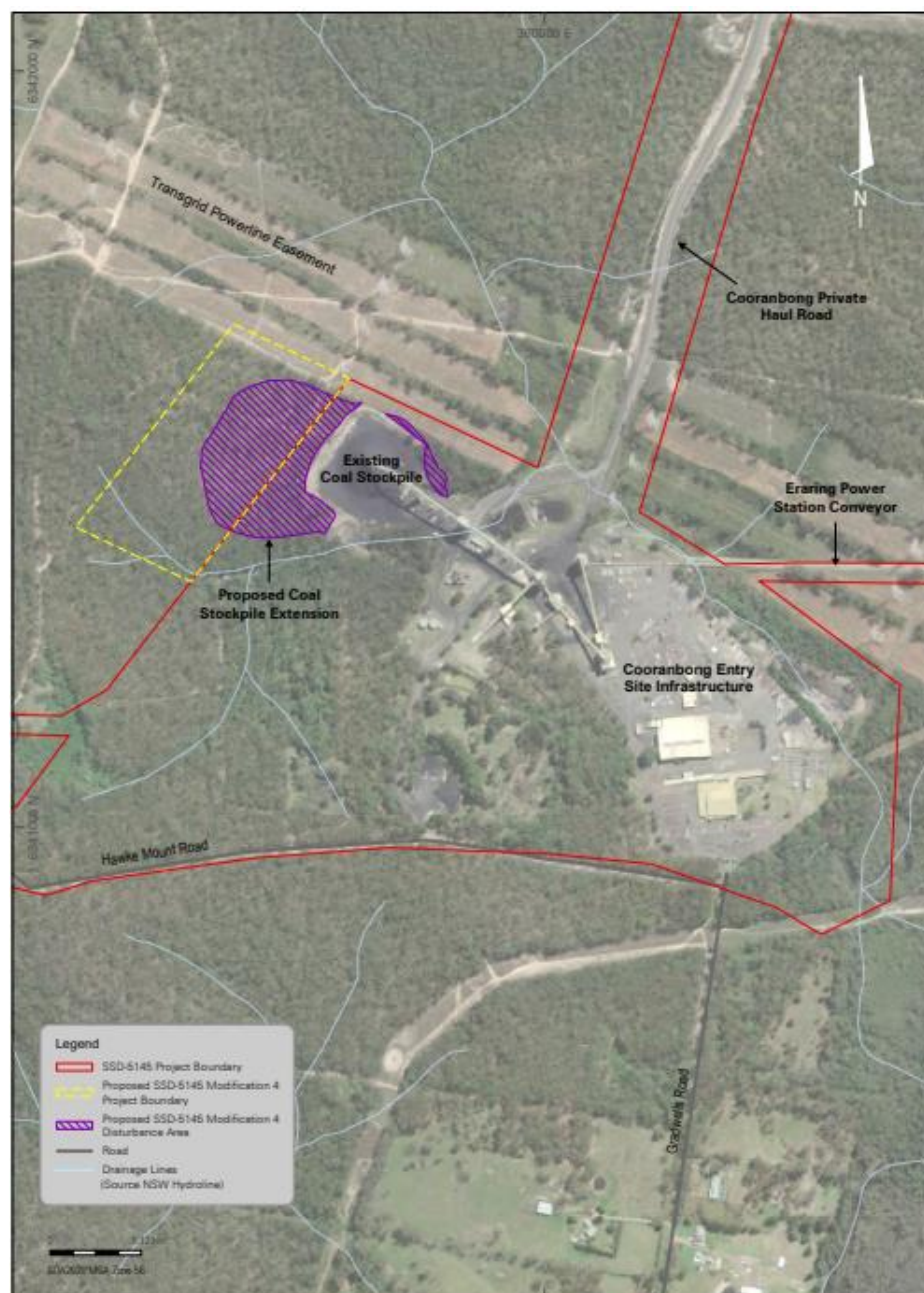


Figure 2: Modification Extent

1.3 Project Amendment Overview

In direct response to feedback from Department of Climate Change, Energy, the Environment and Water (**DCCEEW**) Conservation Programs, Heritage & Regulation Group (**CPHR**), the footprint of the proposed coal stockpile extension has been revised from 2.97 hectares to 2.93 hectares to address issues raised with the application of the Streamlined Biodiversity Development Assessment Report (**BDAR**).

The key amendments to the stockpile design include:

- Amendment to the stockpile design and associated drainage to exclude the stockpile footprint from extending onto Lot 179 DP755218, specifically to ensure the proposal remains within the biodiversity clearing thresholds outlined in the Biodiversity Assessment Method 2020 (**BAM 2020**) to enable use of the Streamlined BDAR.

1.4 Proponent

Centennial Northern Coal Services Pty Ltd, Centennial Mandalong Pty Ltd (the controlling and operating entity of the Mandalong Mine) and Centennial Newstan Pty Ltd (the controlling and operating entity of the Newstan Colliery) are all fully owned subsidiaries of Centennial Coal Company Pty Ltd (**Centennial**).

NCS is operated by Centennial Northern Coal Services Pty Limited (ABN 47 125 670 288), which is a wholly owned subsidiary of Centennial.

Centennial is an Australian mining company supplying domestic and export markets. Centennial is a wholly owned subsidiary of Banpu Public Company Limited (**Banpu**).

Centennial Northern Coal Services Pty Limited is the proponent for SSD-5145.

1.5 Document Structure

This document has been prepared in consideration of “*State Significant Development Guidelines – preparing an Amendment Report*” (DPIE, 2022).

2 Strategic Context

The strategic context of the Project the subject of Modification 4 is provided in Section 2 of the Modification Report.

Section 2 of the Modification Report outlines the following in relation to strategic context:

- General overview of location;
- Land ownership;
- Land use; and
- Approved operations.

Land ownership is show on **Figure 3**.

The strategic context of Section 2 of the Modification Report remain unchanged in consideration of the proposed Project amendment.

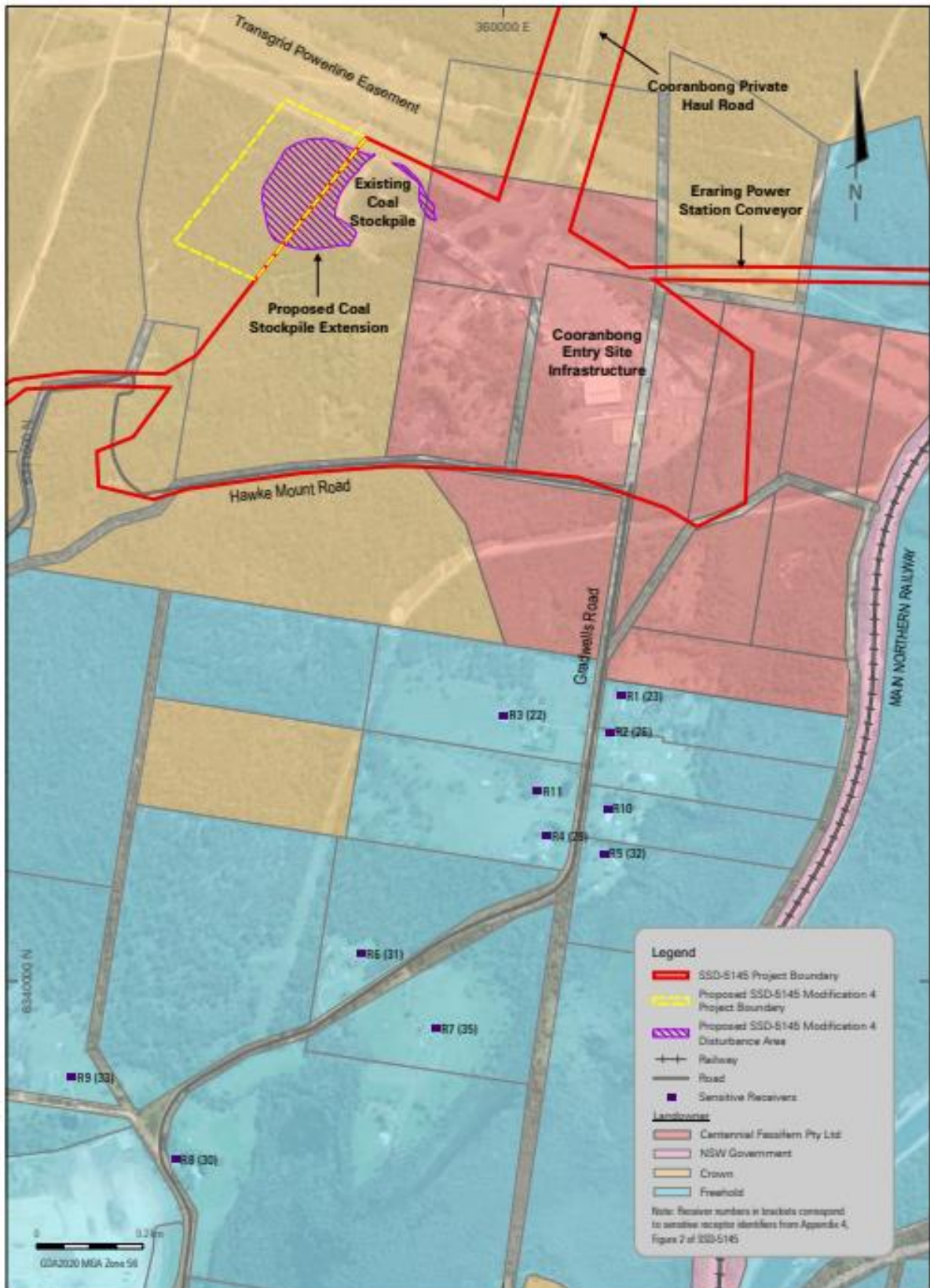


Figure 3: Cooranbong Stockpile Site Land Ownership

3 Proposed Amendment

In direct response to feedback from DCCEEW CPHR, the footprint of the proposed coal stockpile extension has been revised from 2.97 hectares to 2.93 hectares to address issues raised with the application of the Streamlined Biodiversity Development Assessment Report (**BDAR**). The key amendments to the stockpile design include:

- Amendment to the stockpile design and associated drainage to exclude the stockpile footprint from extending onto Lot 179 DP755218, specifically to ensure the proposal remains within the biodiversity clearing thresholds outlined in the Biodiversity Assessment Method 2020 (**BAM 2020**) to enable use of the Streamlined BDAR.

The Streamlined BDAR has been completed to address the identified issues and reflect revision to the stockpile area layout.

Specifically, the Project footprint has been amended to exclude development on Lot 179 DP755218, ensuring that the disturbance area is entirely contained within Lot 7306 DP1164232, which has a minimum lot size of 40 hectares.

The originally proposed stockpile layout is outlined on **Figure 4**.

The amended stockpile layout is outlined on **Figure 5**.

Amended Stockpile Layout design drawings are located within **Appendix A**.

By limiting the extent of the disturbance to less than 3 hectares exclusively on Lot 7306 DP11642, the modification now complies with the eligibility criteria for the streamlined assessment pathway under the BAM 2020.

Centennial co-ordinated a meeting with DCCEEW – CPHR on 4 June 2025 to review the revisions to the stockpile extent and compliance with the Streamlined BDAR guidelines.

The updated Streamlined BDAR has been prepared in accordance with BAM 2020 requirements and includes:

- A certified and signed report by an accredited assessor;
- A finalised BAM-C Credit Summary Report, reflecting the revised disturbance area; and
- Submission of all required data to the Biodiversity Offset Assessment Management System (**BOAMS**) for agency review.

The revised Streamlined BDAR is contained within Appendix 3 of the Submissions Report.

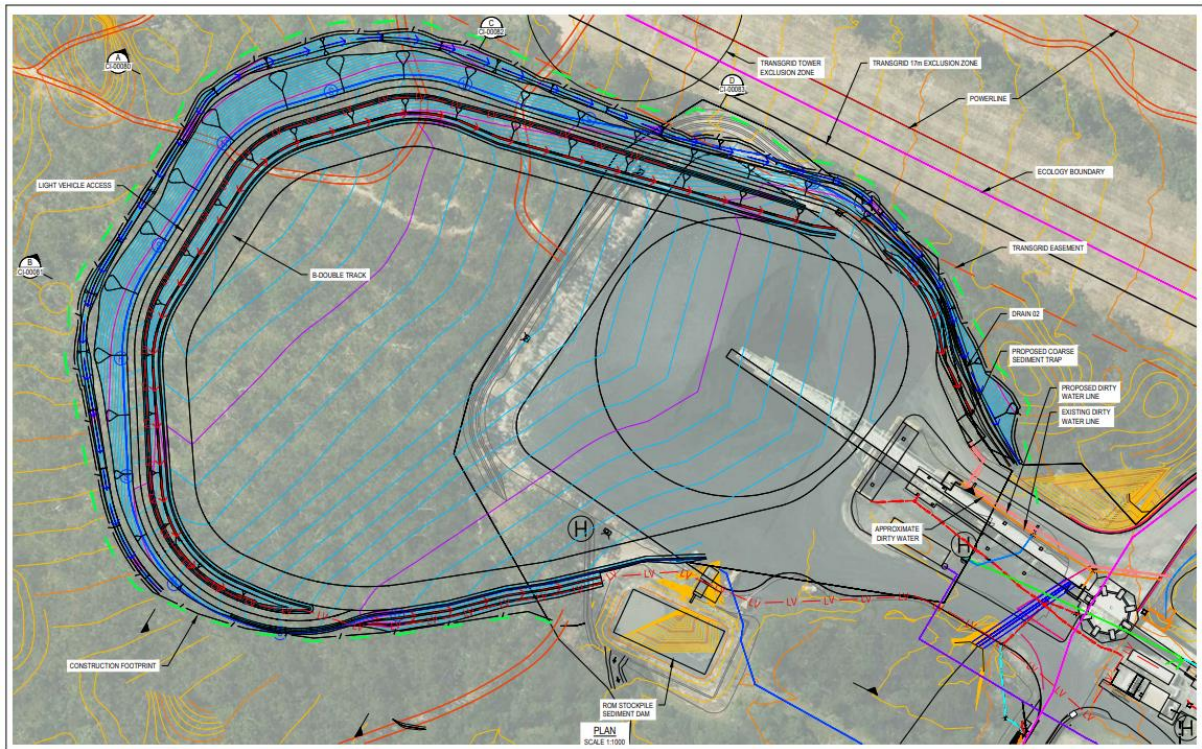


Figure 4: Stockpile Layout within Modification Report

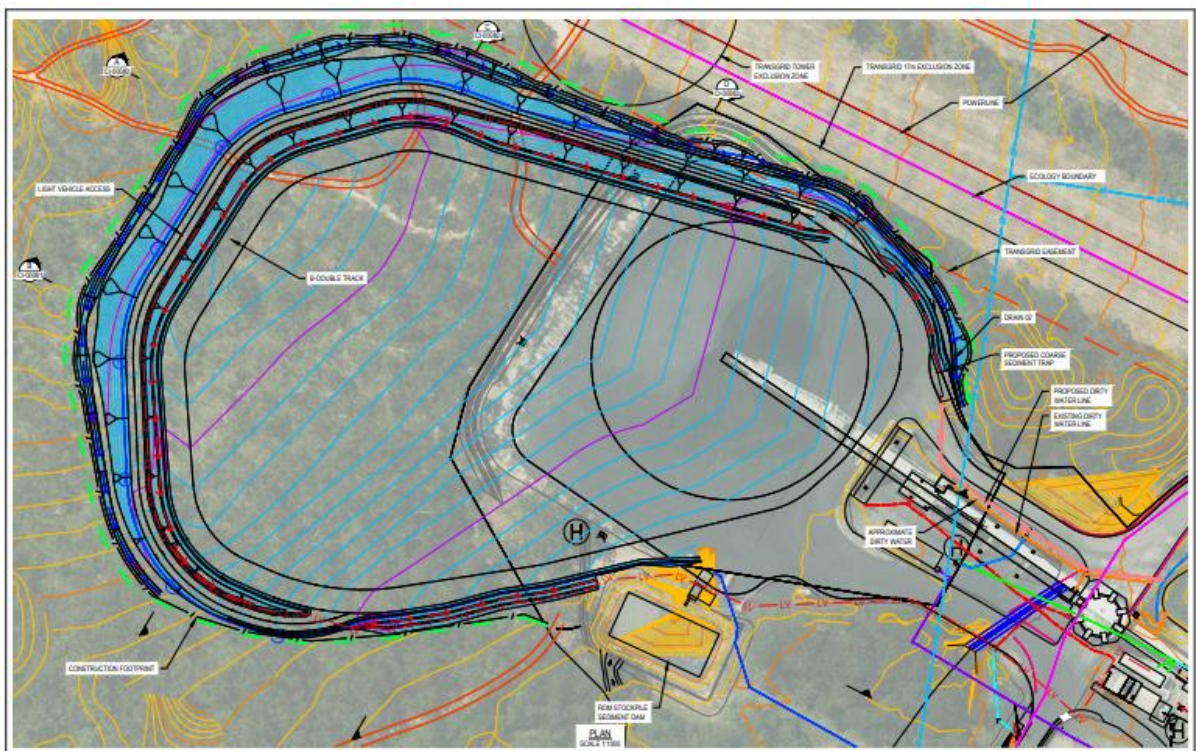


Figure 5: Proposed Amended Stockpile Layout

4 Statutory Context

The statutory context of the Project the subject of Modification 4 is provided in Section 4 of the Modification Report.

The statutory context of Section 4 of the Modification Report is unchanged in consideration of the proposed Project amendment.

5 Stakeholder Engagement

5.1 NSW Department of Planning, Housing and Infrastructure

Centennial briefed DPHI on the proposed project amendment on several occasions during the preparation of the Submissions Report.

5.2 NSW Department of Climate Change, Energy, the Environment and Water - Conservation Programs, Heritage & Regulation

Centennial co-ordinated a meeting with DCCEEW – CHPR on 4 June 2025 to review the revisions to the stockpile extent and compliance with the Streamlined BDAR guidelines.

5.3 Lake Macquarie City Council

Centennial briefed Lake Macquarie city Council (**LMCC**) representative on the proposed project amendment at the Newstan Community Consultative Committee (**CCC**) meeting on 17 July 2025.

5.4 Newstan Community Consultative Committee

Centennial briefed the Newstan CCC on the proposed Project amendment at meeting on 17 July 2025.

6 Assessment of Impacts

No additional environmental impacts beyond those assessed in the Modification Report would occur as a result of the proposed Project amendments.

The reduction in area of disturbance from 2.97 hectares to 2.93 hectares represents a minor reduction in biodiversity impacts outlined within the Modification Report.

7 Justification for Amendment

The proposed Project amendment would not result in additional environmental impacts beyond those assessed in the Modification Report.

Accordingly, the justification and evaluation outlined within the Modification Report that, on balance, the environmental, social and economic impacts of the Modification will generally be minor in nature remain valid.

8 Conclusion

As a result of the proposed Project amendment consisting of reduced surface disturbance extent, the environmental impacts of the Project would be reduced compared to that presented in the Modification Report.

Accordingly, the conclusion in the Modification Report that the Project is in the public interest with minor environmental impacts that can be appropriately managed, remains unchanged.

9 References

James Bailey and Associates, 2025. *Cooranbong Entry Site Stockpile Extension Modification Report*

Department of Planning, Housing and Infrastructure, 2022. *State Significant Development Guidelines – preparing an Amendment Report*

Appendix A

CENTENINIAL MANDALONG Pty Ltd

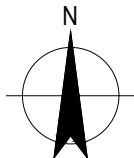
COORANBONG STOCKPILE EXTENSION

PRELIMINARY DESIGN



DRAWING INDEX	
DRAWING NUMBER	DRAWING TITLE
12609381-GHD-00-00-DRG-CI-00001	COVER SHEET, LOCALITY AND DRAWING INDEX
12609381-GHD-00-00-DRG-CI-00002	GENERAL NOTES AND TYPICAL SECTIONS
12609381-GHD-00-00-DRG-CI-00010	SITE LAYOUT PLAN
12609381-GHD-00-00-DRG-CI-00011	GENERAL ARRANGEMENT
12609381-GHD-00-00-DRG-CI-00020	PAVEMENT PROFILES
12609381-GHD-00-00-DRG-CI-00030	DETAIL PLAN - CIVIL WORKS - SHEET 1 OF 4
12609381-GHD-00-00-DRG-CI-00031	DETAIL PLAN - CIVIL WORKS - SHEET 2 OF 4
12609381-GHD-00-00-DRG-CI-00032	DETAIL PLAN - CIVIL WORKS - SHEET 3 OF 4
12609381-GHD-00-00-DRG-CI-00033	DETAIL PLAN - CIVIL WORKS - SHEET 4 OF 4
12609381-GHD-00-00-DRG-CI-00040	FIRE SYSTEM UPGRADE
12609381-GHD-00-00-DRG-CI-00045	SITE LAYOUT - PROPOSED LIGHTING INFRASTRUCTURE
12609381-GHD-00-00-DRG-CI-00046	SLD AND DETAILS - PROPOSED LIGHTING INFRASTRUCTURE
12609381-GHD-00-00-DRG-CI-00048	REAHABILITATION CONCEPT DESIGN
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12609381-GHD-00-00-DRG-CI-00055	LONGITUDINAL SECTIONS DRAINS - SHEET 1 OF 3
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C	UPDATED FINAL PRELIMINARY DESIGN	LS	GM	10.04.24
B	FINAL PRELIMINARY DESIGN	LS	GM	23.11.23
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Author	C.PURDON	Drafting Check	B.DREW	
Designer	R.JOHNSON	Design Check	L.SCHROETER	



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Project No.
12609381

Client	CENTENNIAL MANDALONG Pty Ltd
Project	COORANBONG STOCKPILE EXTENSION
Status	PRELIMINARY

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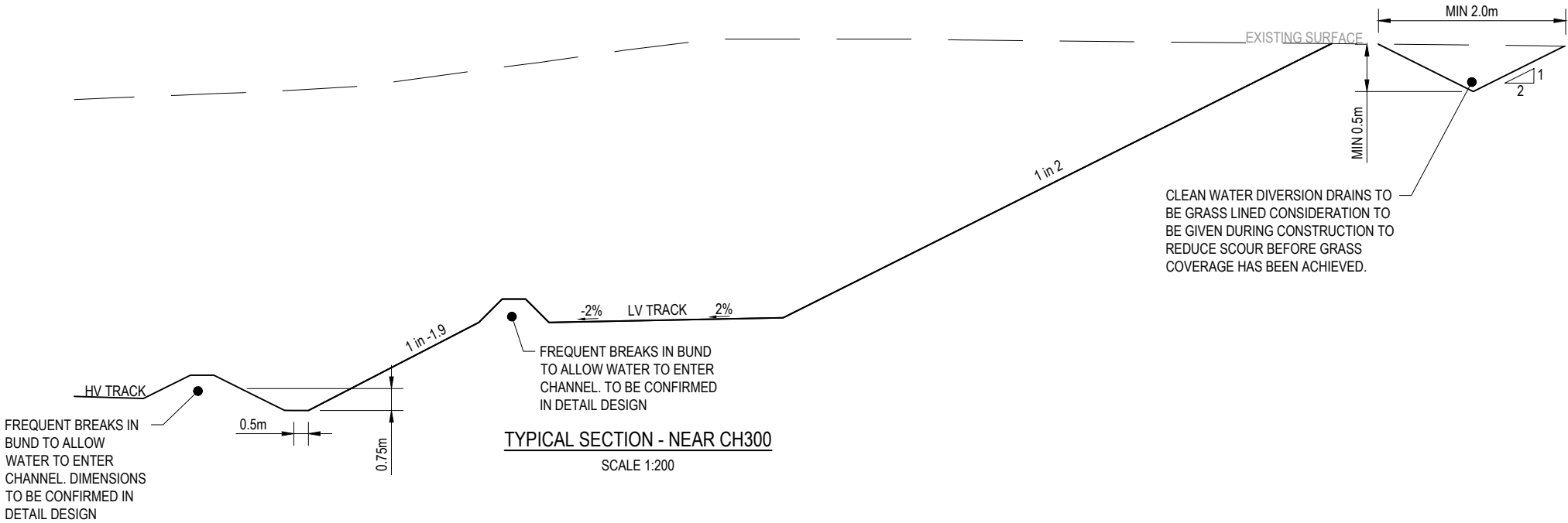
NOTES

GENERAL AND SURVEY

1. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH CENTENNIAL SPECIFICATIONS UNLESS OTHERWISE NOTED.
2. SURVEY HEIGHT DATUM IS AHD.
3. CO-ORDINATE SYSTEM FOR SURVEY AND DESIGN IS GDA2020 MGA ZONE 56.
4. WORK EXTENT AND LIMIT FOR THE DESIGN ARE BASED ON SURVEY PROVIDED BY CENTENNIAL ON 16/08/2023 AND 01/09/2023.
5. THE CLIENT SHALL CHECK THE STATED CO-ORDINATES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
6. ALL LOCATIONS, ORIENTATIONS AND LEVELS TO BE VERIFIED ON SITE BEFORE COMMENCING ANY WORK. REFER DISCREPANCIES TO THE PRINCIPAL. DO NOT OBTAIN DIMENSIONS FROM SCALING. NATURAL SURFACE LEVELS ON THE DRAWING ARE INDICATIVE ONLY.

EARTHWORKS AND PAVEMENT

1. EARTHWORKS AND COMPACTION REQUIREMENTS ARE TO BE FOLLOWED AS PRESCRIBED IN CENTENNTIAL SPECIFICATIONS AND THESE NOTES.
2. OVER FULL AREA OF EARTHWORKS, CLEAR VEGETATION, RUBBISH, SLABS ETC. AND STRIP TOPSOIL, AVERAGE 150mm THICK. REMOVE FROM SITE, EXCEPT TOPSOIL FOR RE-USE.
3. PRIOR TO ANY FILLING IN AREAS OF CUT IN EXISTING GROUND, PROOF ROLL THE EXPOSED SURFACE WITH A ROLLER OF MINIMUM WEIGHT OF 8 TONNES WITH A MINIMUM OF 6 PASSES. EXCAVATE AND REMOVE ANY SOFT SPOTS ENCOUNTERED DURING THE PROOF ROLLING AND REPLACE WITH APPROVED FILL COMPACTED IN LAYERS. THE WHOLE OF THE EXPOSED SUBGRADE AND FILL SHALL BE COMPACTED TO 98% STANDARD MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT +/- 2% COMPACTION.
4. FOR ON SITE FILLING AREAS, THE CLIENT SHALL TAKE LEVELS OF EXISTING SURFACE AFTER STRIPPING TOPSOIL AND PRIOR TO COMMENCING FILL OPERATIONS.
5. KEEP EXCAVATIONS FREE OF WATER. PROVIDE ADEQUATE DRAINAGE TO ENSURE FORMATION IS NOT AFFECTED BY MOISTURE. PREVENT FOUNDATION DRYING OUT DUE TO EXPOSURE. PLACE BACKFILL AS SOON AS PRACTICABLE AFTER EXCAVATION.
6. ENSURE EXCAVATIONS ARE STABLE AND PROTECT SURROUNDING PROERTY AND SERVICES FORM ADVERSE EFFECTS OF GROUND WORKS. PROVIDE TEMPORARY WORKS AS REQUIRED.
7. ADEQUATE DRAINAGE AND CROSS FALLS IN EXCAVATIONS SHOULD BE PROVIDED.
8. ALL PAVEMENTS MUST BE CONSTRUCTED IN ACCORDANCE WITH 12609381-REP_COORANBONG STOCKPILE EXPANSION PRELIMINARY DESIGN - GEOTECHNICAL INVESTIGATION REPORT.
9. FOR PAVEMENT THICKNESS AND MATERIAL DETAILS REFER TO 12609381-REP_COORANBONG STOCKPILE EXPANSION PRELIMINARY DESIGN - GEOTECHNICAL INVESTIGATION REPORT.
- 10.PAVEMENT DESIGNS ARE BASED ON TEST RESULTS AS NOTED. NONSTANDARD LOADING AND CONSTRUCTION TRAFFIC IS NOT INCLUDED.



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Designer	R.JOHNSON	Design Check	L.SCHROETER	



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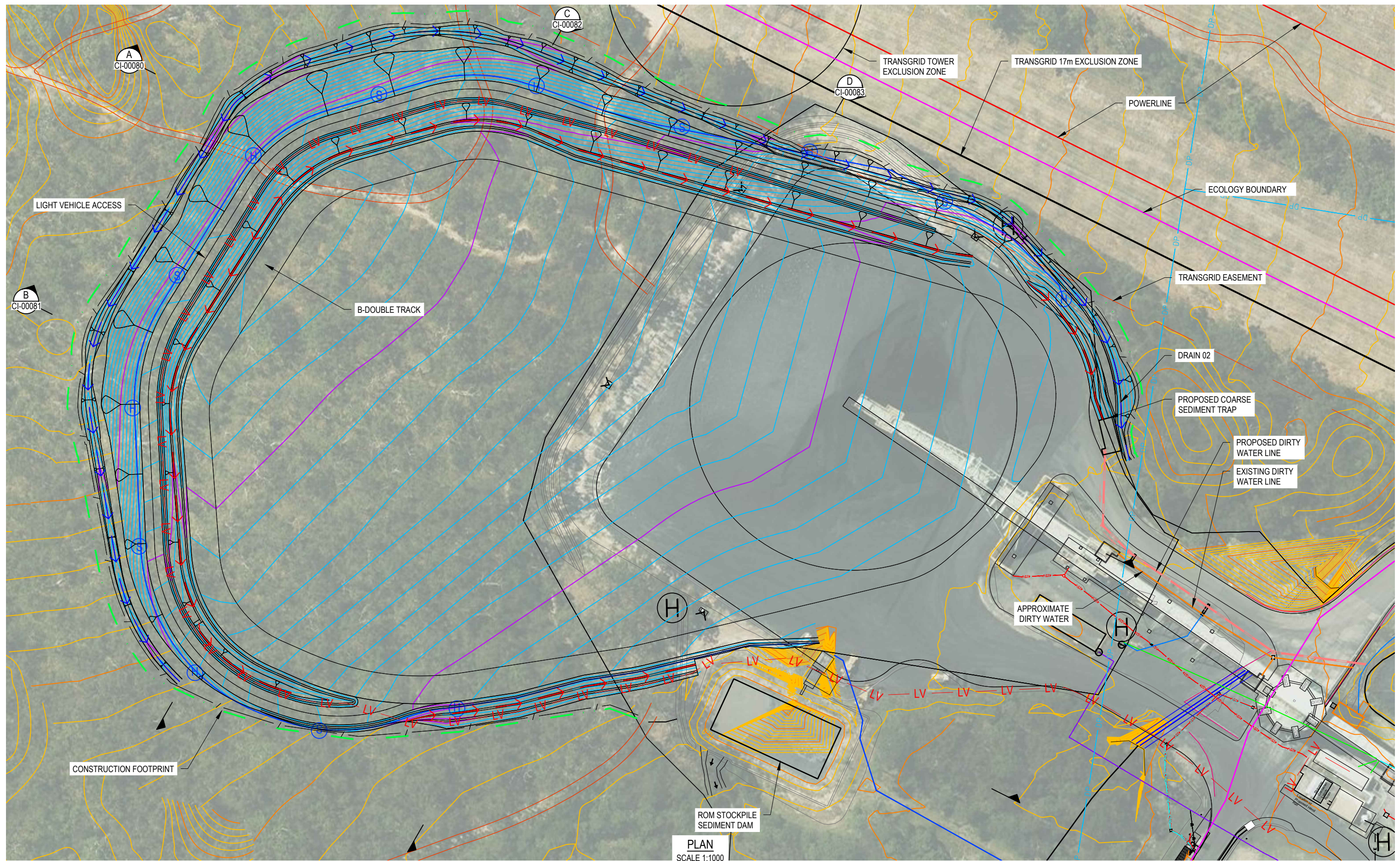
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Project	COORANBONG STOCKPILE EXTENSION
Status	PRELIMINARY

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AND TYPICAL SECTION

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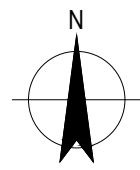
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Rev
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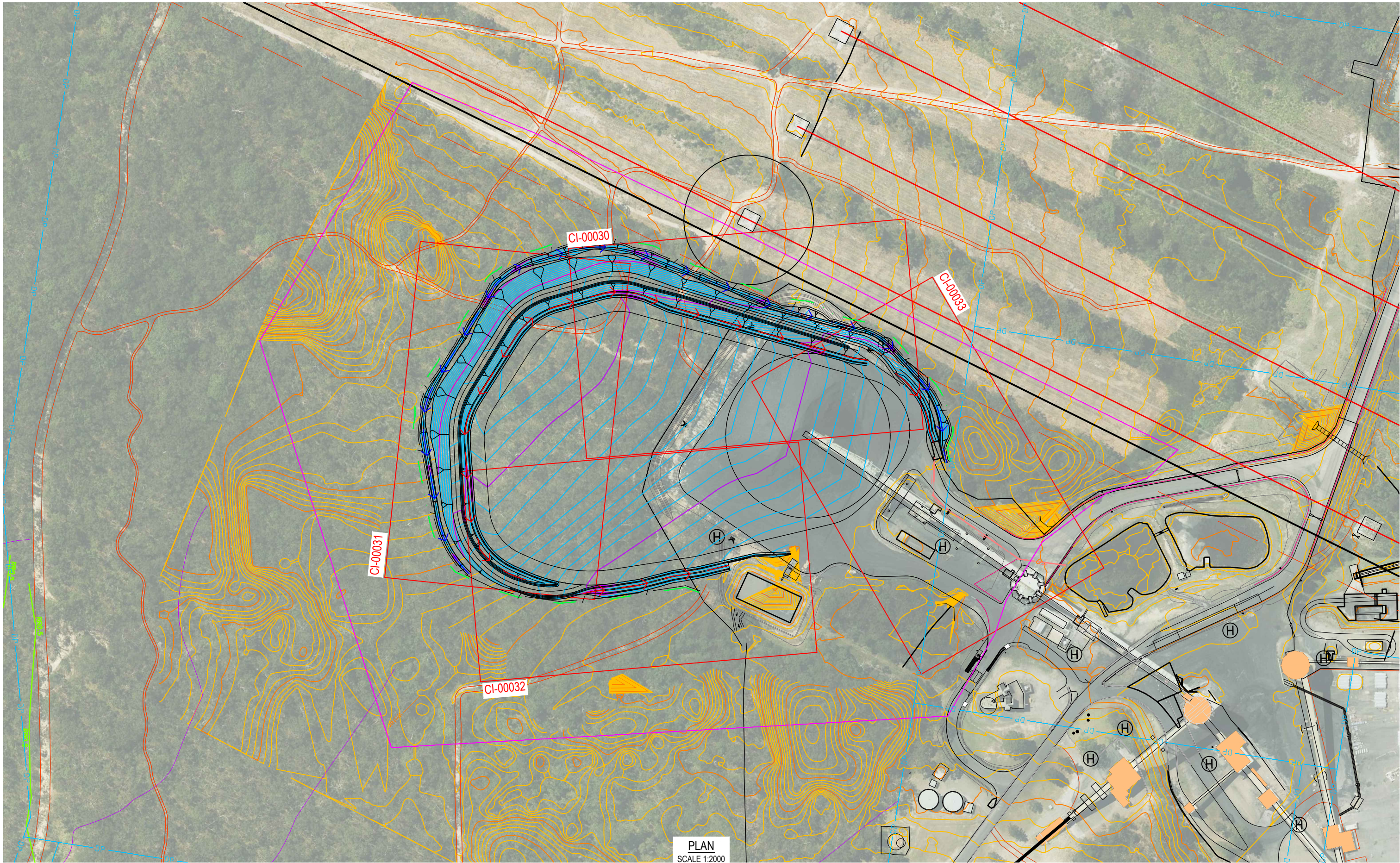
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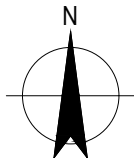
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Project	COORANBONG STOCKPILE EXTENSION
Status	PRELIMINARY

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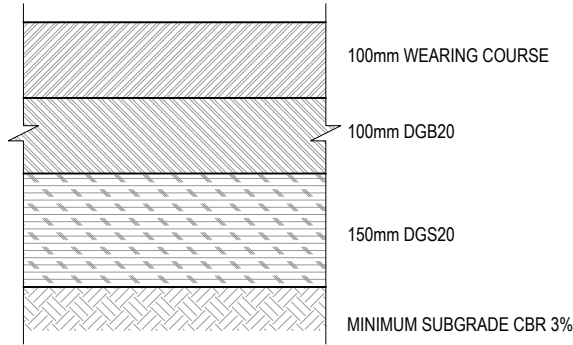
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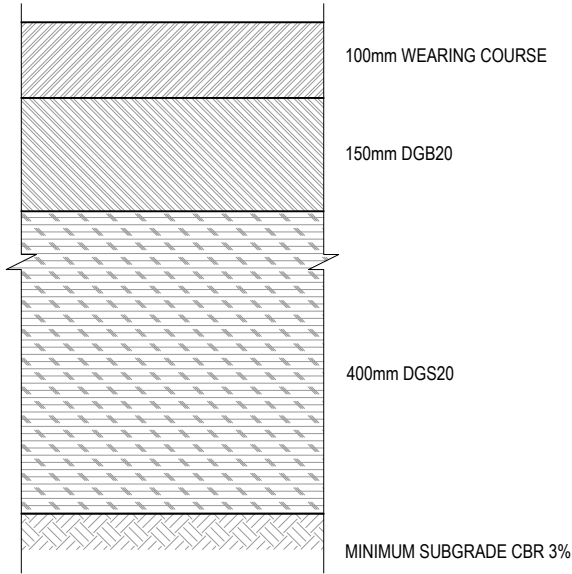
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Size A3
Rev E



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SCALE 1:10



PAVEMENT TYPE 2:
B-DOUBLE ACCESS TRACK
SCALE 1:10

Rev	Description	Checked	Approved	Date
D	ISSUED FOR PRELIMINARY DESIGN APPROVALS	GM		09.05.25
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Author	J.MAYTOM	Drafting Check	B.DREW	
Designer	K.BOERSMA	Design Check	L.SCHROETER	





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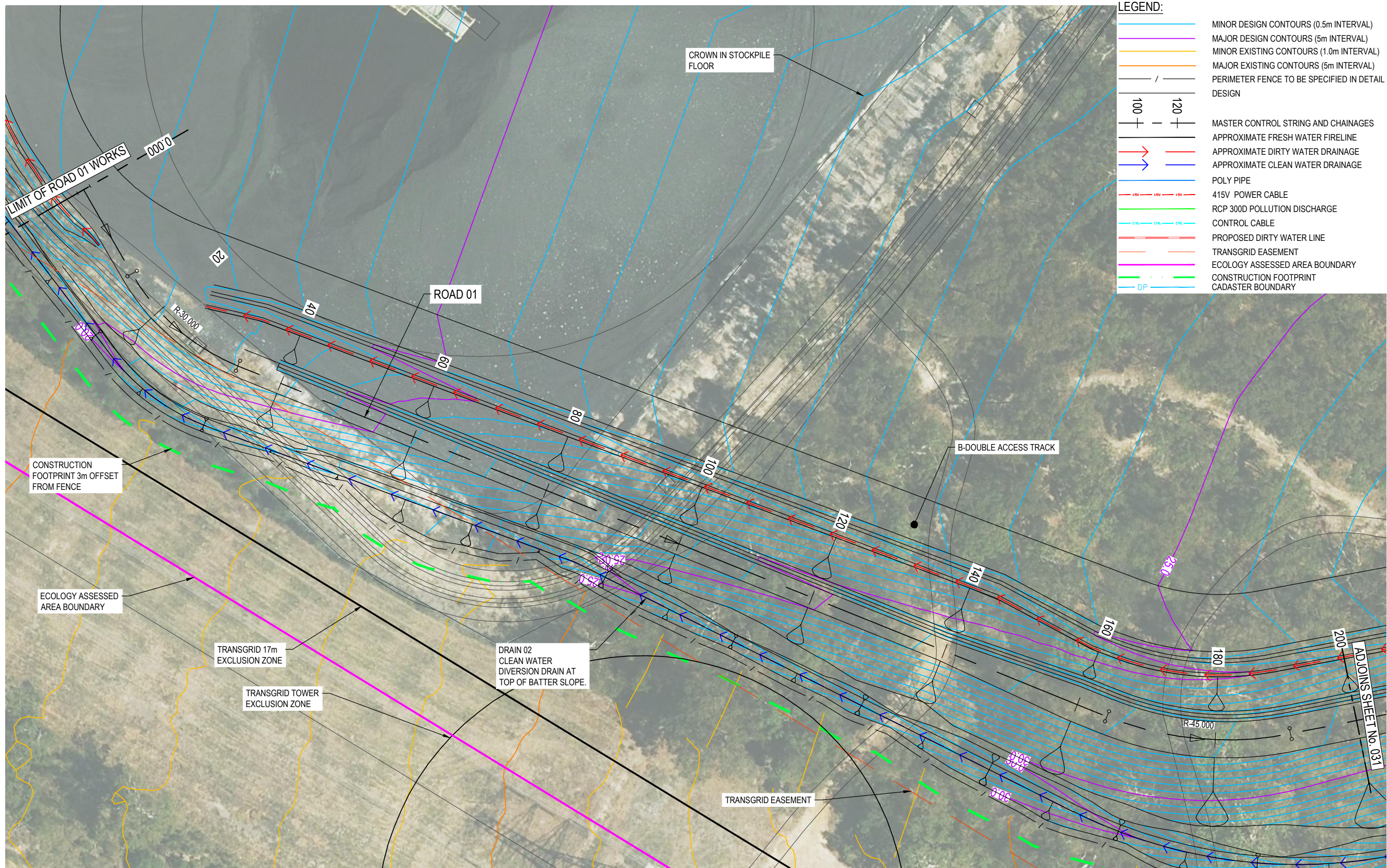
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Project	COORANBONG STOCKPILE EXTENSION
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Rev
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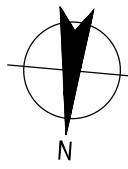
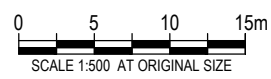


LEGEND:

- MINOR DESIGN CONTOURS (0.5m INTERVAL)
- MAJOR DESIGN CONTOURS (5m INTERVAL)
- MINOR EXISTING CONTOURS (1.0m INTERVAL)
- MAJOR EXISTING CONTOURS (5m INTERVAL)
- PERIMETER FENCE TO BE SPECIFIED IN DETAIL DESIGN DESIGN
- MASTER CONTROL STRING AND CHAINAGES
- APPROXIMATE FRESH WATER FIRELINE
- APPROXIMATE DIRTY WATER DRAINAGE
- APPROXIMATE CLEAN WATER DRAINAGE
- POLY PIPE
- 415V POWER CABLE
- RCP 300D POLLUTION DISCHARGE
- CONTROL CABLE
- PROPOSED DIRTY WATER LINE
- TRANSGRID EASEMENT
- ECOLOGY ASSESSED AREA BOUNDARY
- CONSTRUCTION FOOTPRINT
- CADASTER BOUNDARY

PLAN
SCALE 1:500

E	ISSUED FOR PRELIMINARY DESIGN APPROVALS	GM	09.05.25
D	REVISED FINAL PRELIMINARY DESIGN	LS	19.06.24
C	UPDATED FINAL PRELIMINARY DESIGN	LS	10.04.24
B	FINAL PRELIMINARY DESIGN	LS	23.11.23
A	PRELIMINARY DESIGN	HT	21.09.23
Rev	Description	Checked	Approved
Author	C.PURDON	Drafting Check	B.DREW
Designer	R.JOHNSON	Design Check	L.SCHROETER



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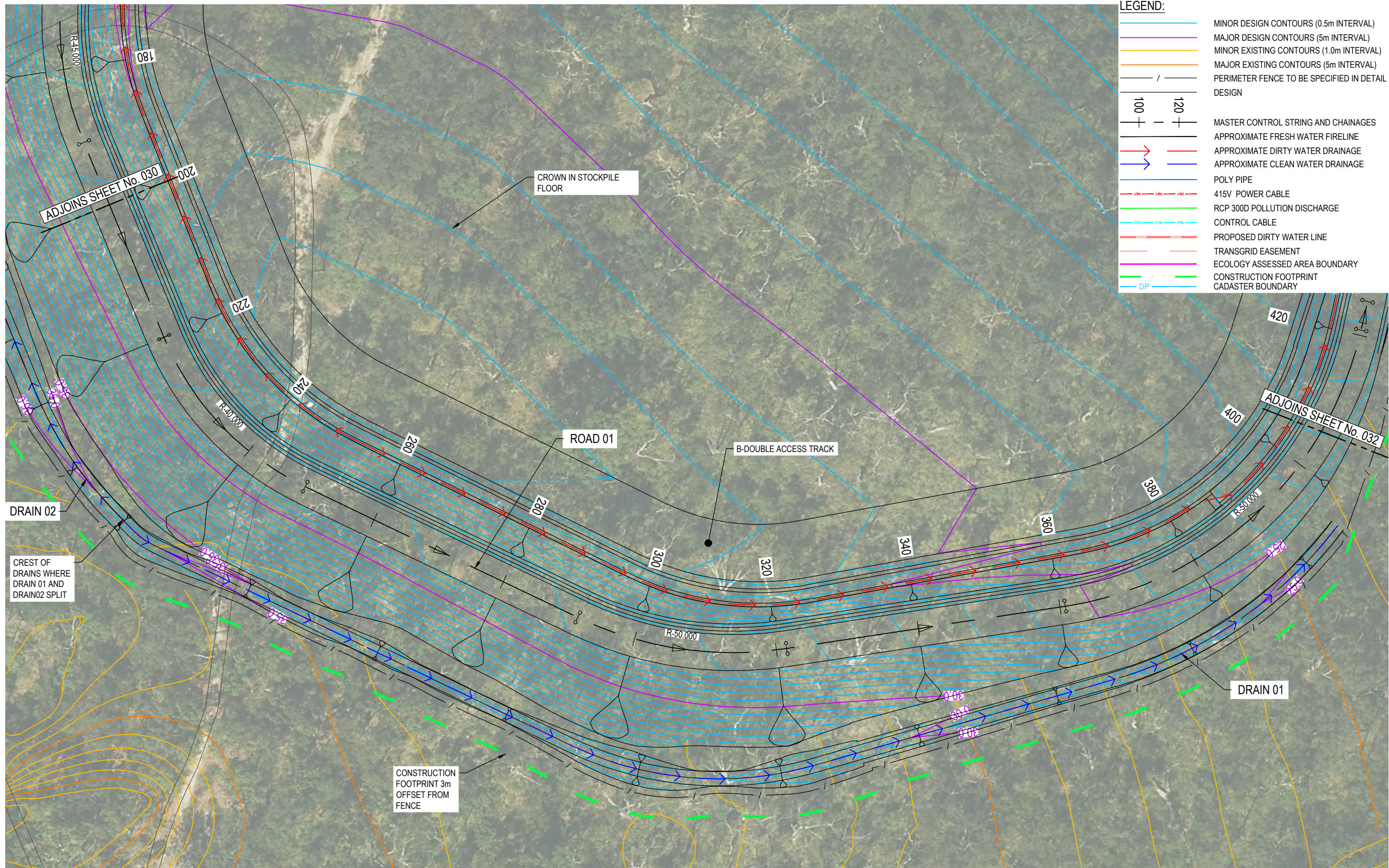


Client	CENTENNIAL MANDALONG Pty Ltd
Project	COORANBONG STOCKPILE EXTENSION
Status	PRELIMINARY

Drawing Title
**DETAIL PLAN
CIVIL WORKS
SHEET 1 OF 4**

Drawing No.
12609381-GHD-00-00-DRG-CI-00030

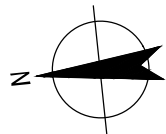
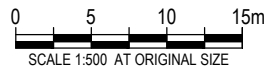
Size
A3
Rev
E



- LEGEND:**
- MINOR DESIGN CONTOURS (0.5m INTERVAL)
 - MAJOR DESIGN CONTOURS (5m INTERVAL)
 - MINOR EXISTING CONTOURS (1.0m INTERVAL)
 - MAJOR EXISTING CONTOURS (5m INTERVAL)
 - PERIMETER FENCE TO BE SPECIFIED IN DETAIL DESIGN DESIGN
 - MASTER CONTROL STRING AND CHAINAGES
 - APPROXIMATE FRESH WATER FIRELINE
 - APPROXIMATE DIRTY WATER DRAINAGE
 - APPROXIMATE CLEAN WATER DRAINAGE
 - POLY PIPE
 - 415V POWER CABLE
 - RCP 300D POLLUTION DISCHARGE
 - CONTROL CABLE
 - PROPOSED DIRTY WATER LINE
 - TRANSGRID EASEMENT
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PLAN
SCALE 1:500

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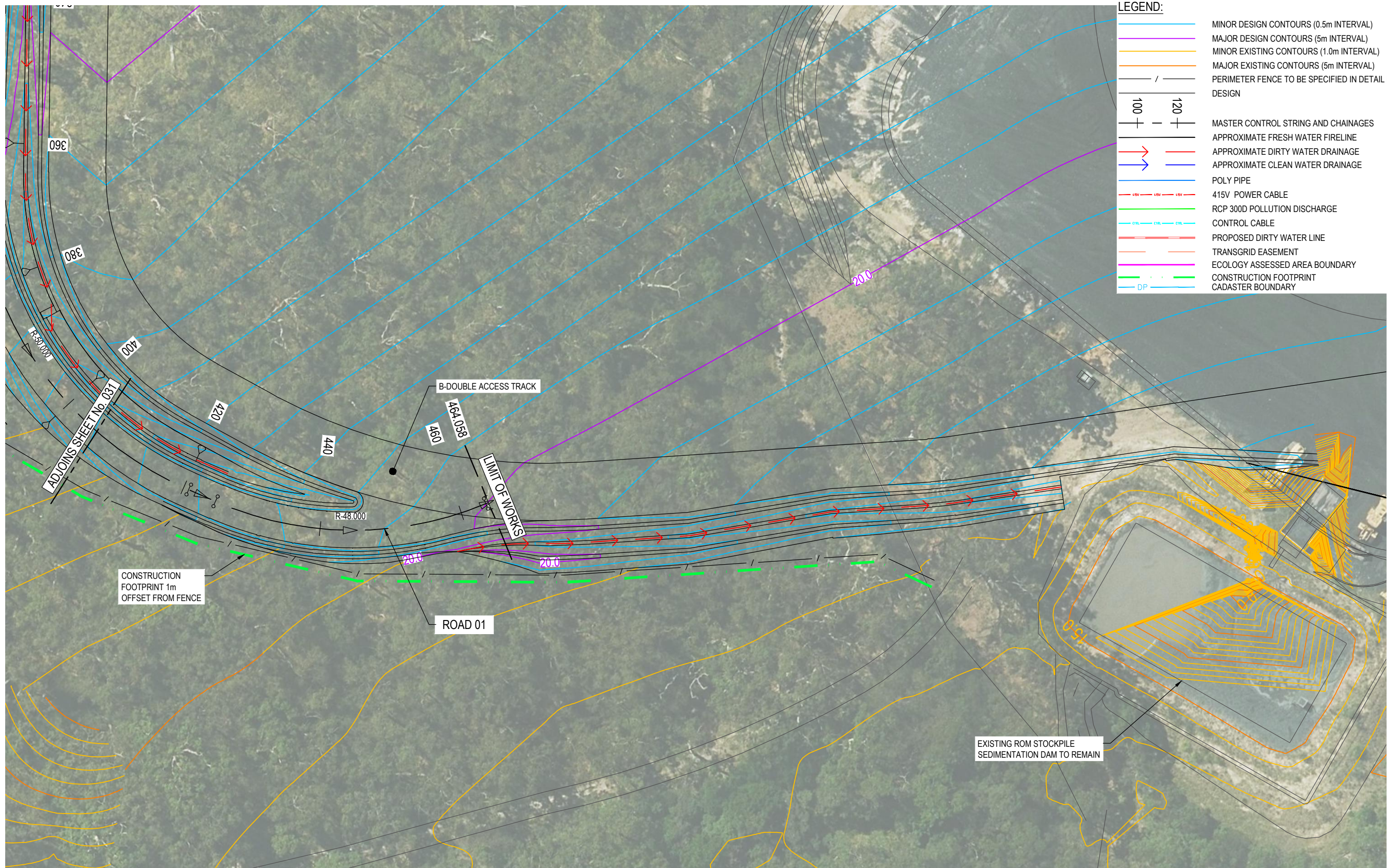
Client CENTENNIAL MANDALONG Pty Ltd
Project COORANBONG STOCKPILE EXTENSION
Status PRELIMINARY

Drawing Title
DETAIL PLAN
CIVIL WORKS
SHEET 2 OF 4

Drawing No.
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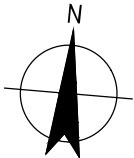
Size
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Rev
E



PLAN
SCALE 1:500

E	ISSUED FOR PRELIMINARY DESIGN APPROVALS			GM	09.05.25
D	REVISED FINAL PRELIMINARY DESIGN			LS	19.06.24
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Rev	Description			Checked	Approved Date
Author	C.PURDON		Drafting Check	B.DREW	
Designer	R.JOHNSON		Design Check	L.SCHROETER	



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Client	CENTENNIAL MANDALONG Pty Ltd
Project	COORANBONG STOCKPILE EXTENSION
Status	PRELIMINARY

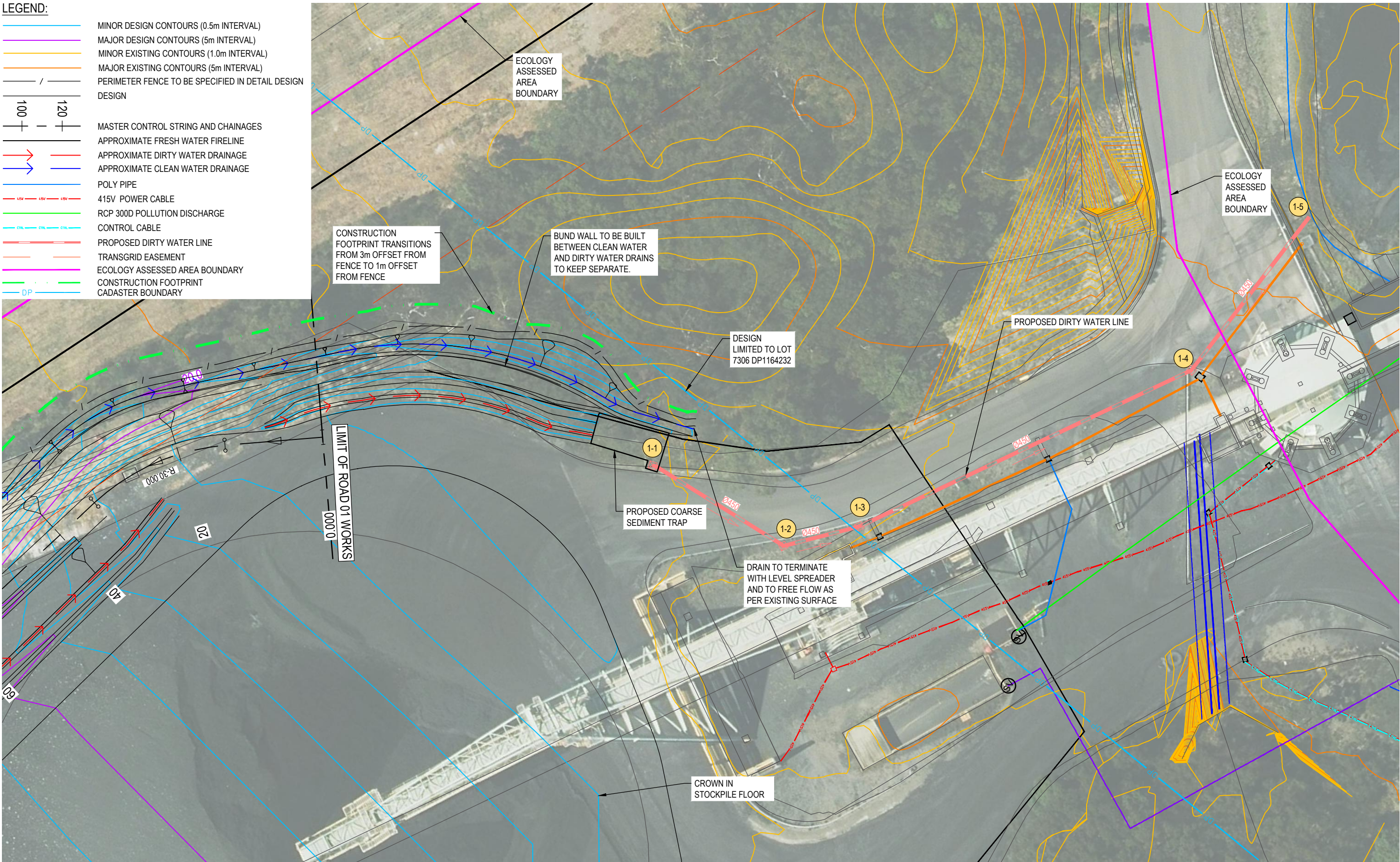
Drawing Title
DETAIL PLAN
CIVIL WORKS
SHEET 3 OF 4

Drawing No.
12609381-GHD-00-00-DRG-CI-00032

Size
A3
Rev
E

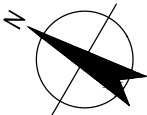
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- MAJOR DESIGN CONTOURS (5m INTERVAL)
- MINOR EXISTING CONTOURS (1.0m INTERVAL)
- MAJOR EXISTING CONTOURS (5m INTERVAL)
- PERIMETER FENCE TO BE SPECIFIED IN DETAIL DESIGN DESIGN
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- CADASTER BOUNDARY



PLAN
SCALE 1:500

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Client CENTENNIAL MANDALONG Pty Ltd

Project COORANBONG STOCKPILE EXTENSION

Status PRELIMINARY

Drawing Title
DETAIL PLAN
CIVIL WORKS
SHEET 4 OF 4

Drawing No.
12609381-GHD-00-00-DRG-CI-00033

Size
A3

Rev
E

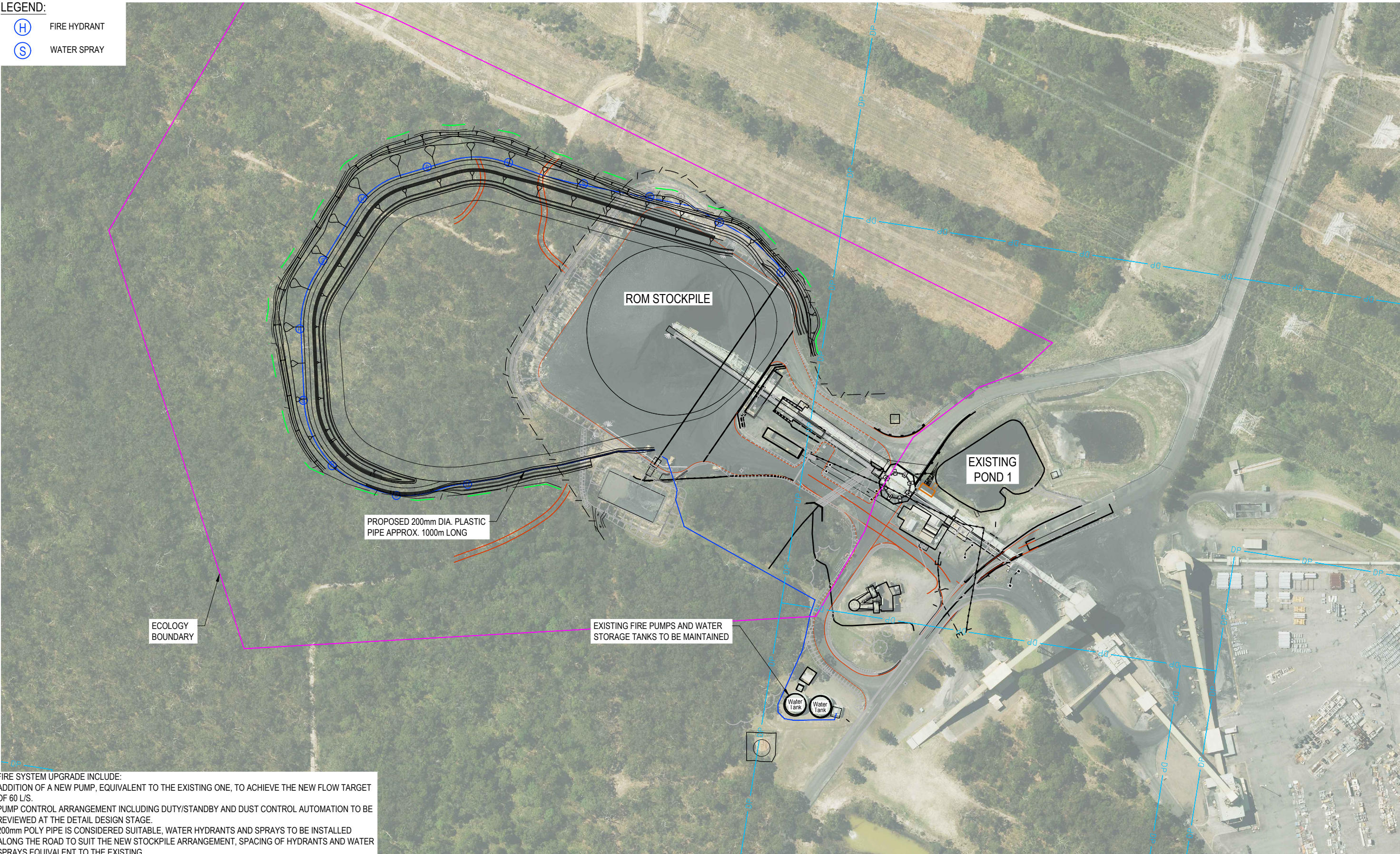
LEGEND:

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FIRE HYDRANT

S

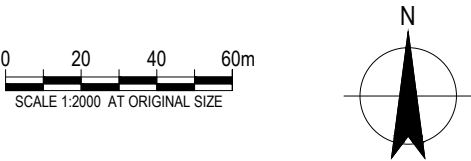
WATER SPRAY



FIRE SYSTEM UPGRADE INCLUDE:
ADDITION OF A NEW PUMP, EQUIVALENT TO THE EXISTING ONE, TO ACHIEVE THE NEW FLOW TARGET OF 60 L/S.
PUMP CONTROL ARRANGEMENT INCLUDING DUTY/STANDBY AND DUST CONTROL AUTOMATION TO BE REVIEWED AT THE DETAIL DESIGN STAGE.
200mm POLY PIPE IS CONSIDERED SUITABLE, WATER HYDRANTS AND SPRAYS TO BE INSTALLED ALONG THE ROAD TO SUIT THE NEW STOCKPILE ARRANGEMENT, SPACING OF HYDRANTS AND WATER SPRAYS EQUIVALENT TO THE EXISTING.

PLAN
SCALE 1:2000

E	ISSUED FOR PRELIMINARY DESIGN APPROVAL	LS	GM	09.05.25
D	REVISED FINAL PRELIMINARY DESIGN	LS	GM	21.06.24
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Rev	Description	Checked	Approved	Date
Author	C.PURDON	Drafting Check	B.DREW	
Designer	K.SOTOODEH	Design Check	L.SCHROETER	



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Project	COORANBONG STOCKPILE EXTENSION
Status	PRELIMINARY

Drawing Title

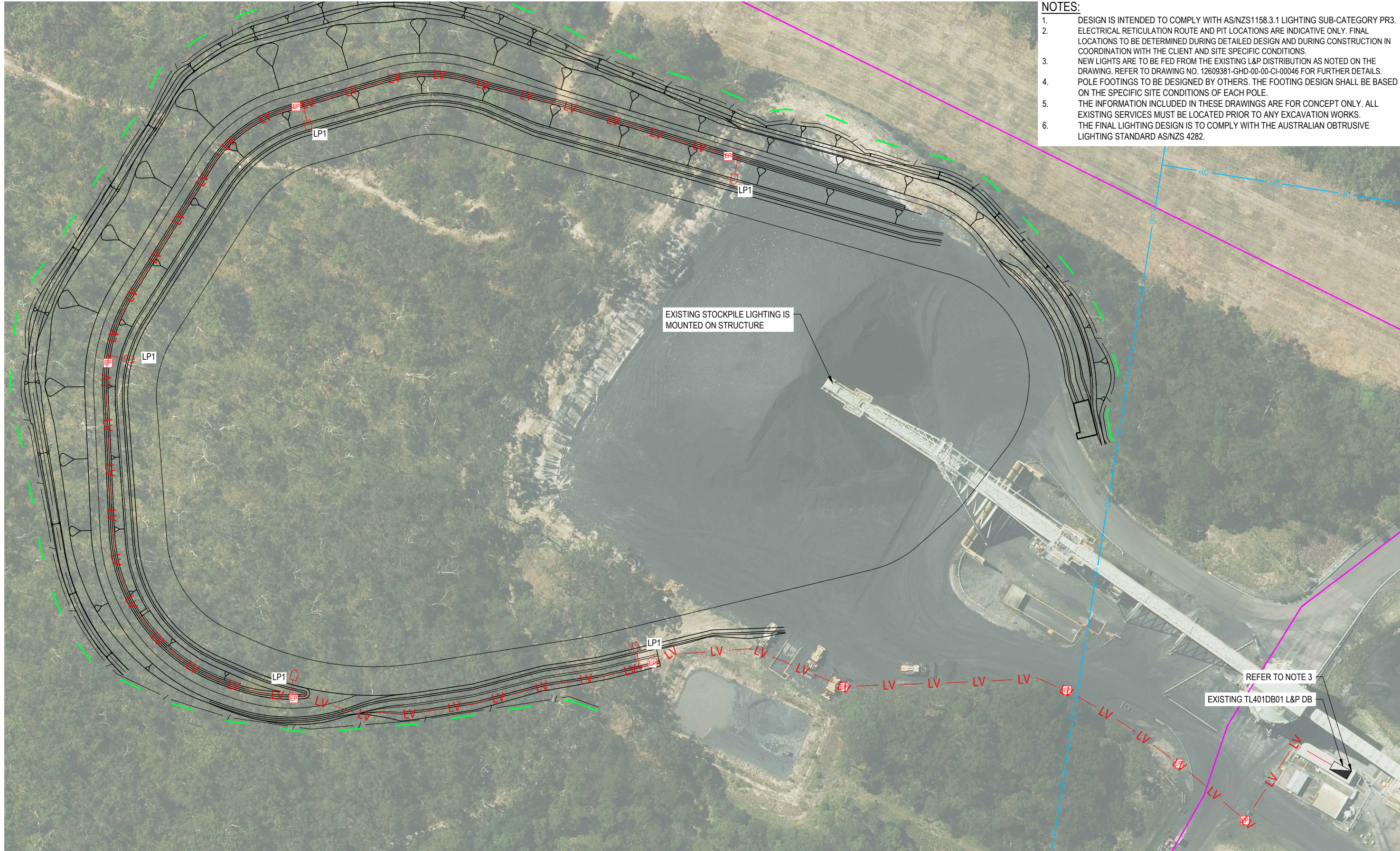
FIRE SYSTEM UPGRADE

12609381-GHD-00-00-DRG-CI-00040

Drawing No.

Rev
E

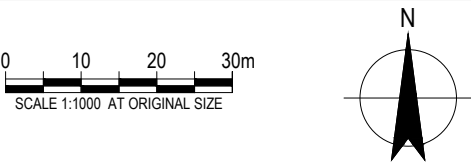
Rev



- NOTES:**
1. DESIGN IS INTENDED TO COMPLY WITH AS/NZS1158.3.1 LIGHTING SUB-CATEGORY PR3.
 2. ELECTRICAL RETICULATION ROUTE AND PIT LOCATIONS ARE INDICATIVE ONLY. FINAL LOCATIONS TO BE DETERMINED DURING DETAILED DESIGN AND DURING CONSTRUCTION IN COORDINATION WITH THE CLIENT AND SITE SPECIFIC CONDITIONS.
 3. NEW LIGHTS ARE TO BE FED FROM THE EXISTING L&P DISTRIBUTION AS NOTED ON THE DRAWING. REFER TO DRAWING NO. 12609381-GHD-00-00-CI-00046 FOR FURTHER DETAILS.
 4. POLE FOOTINGS TO BE DESIGNED BY OTHERS. THE FOOTING DESIGN SHALL BE BASED ON THE SPECIFIC SITE CONDITIONS OF EACH POLE.
 5. THE INFORMATION INCLUDED IN THESE DRAWINGS ARE FOR CONCEPT ONLY. ALL EXISTING SERVICES MUST BE LOCATED PRIOR TO ANY EXCAVATION WORKS.
 6. THE FINAL LIGHTING DESIGN IS TO COMPLY WITH THE AUSTRALIAN OBTRUSIVE LIGHTING STANDARD AS/NZS 4282.

PLAN
SCALE 1:1000

E	ISSUED FOR PRELIMINARY DESIGN APPROVAL	LS	GM	09.05.25
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Author	C.PURDON	Drafting Check	B.DREW	
Designer	S.HAYNES-COOKE	Design Check	L.SCHROETER	



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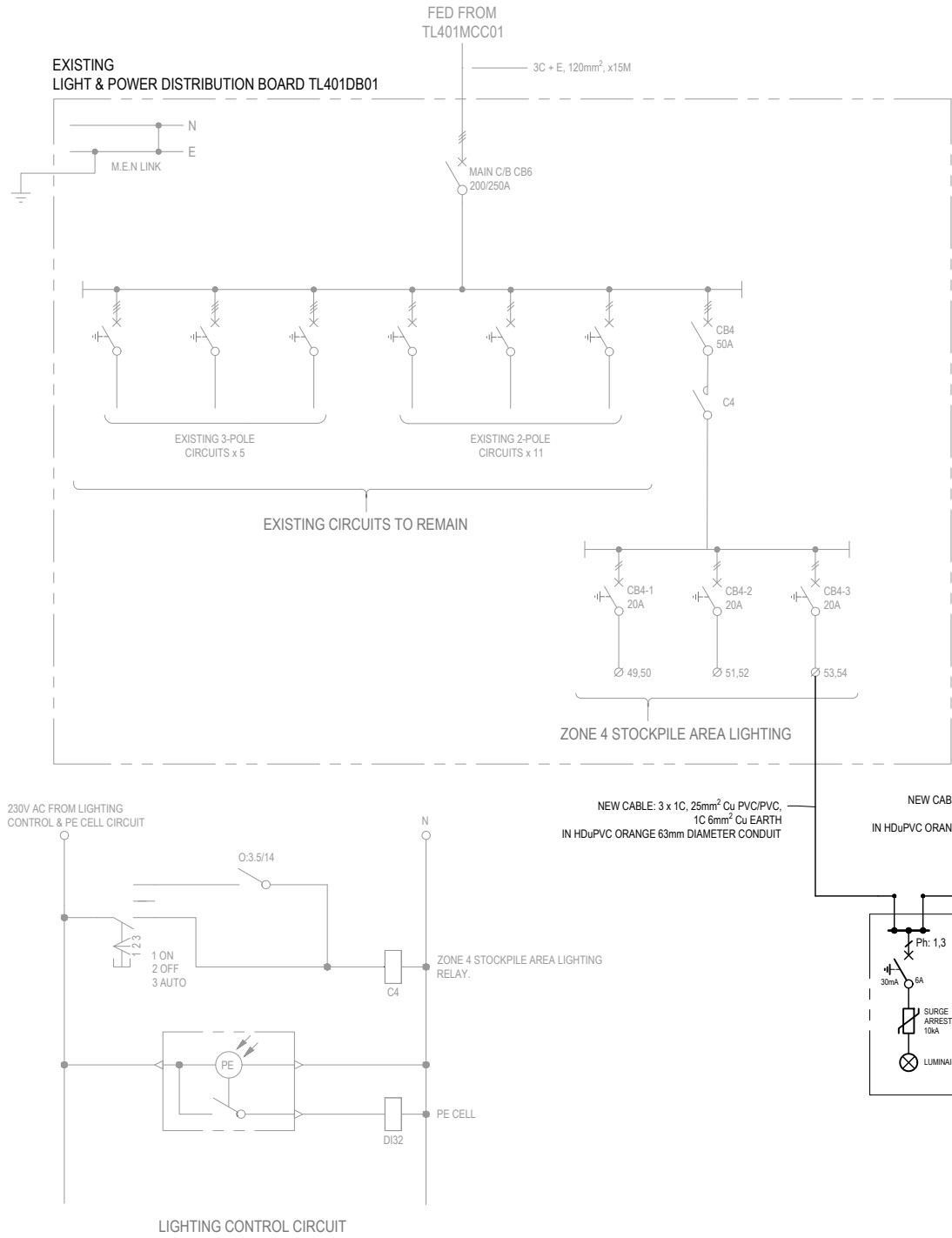
Project No.
12609381

Client **CENTENNIAL MANDALONG Pty Ltd**
Project **COORANBONG STOCKPILE EXTENSION**
Status **PRELIMINARY**

Drawing Title
**SITE LAYOUT
PROPOSED LIGHTING
INFRASTRUCTURE**

Drawing No.
12609381-GHD-00-00-DRG-CI-00045

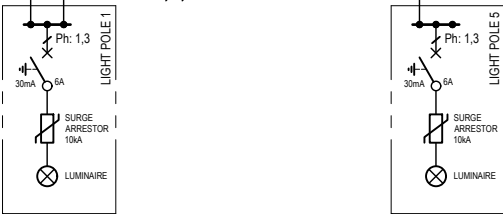
Size
A3
Rev
E



SINGLE LINE DIAGRAM
NOT TO SCALE

NEW LIGHT FITTING DETAILS								
REF. IDENTIFIER	CONNECTED PHASE	POLE TYPE	NUMBER OF LUMINAIRES	LUMINAIRE DETAILS	LUMINAIRE(S) MOUNTING HEIGHT	LUMINAIRE(S) OUTREACH LENGTH	LUMINAIRE TILT ANGLE	ADDITIONAL DETAILS
LP1	1,3	12m GALVANISED ROUND TAPERED LIGHT POLE WITH ACCESS DOOR AT THE BASE.	1	120W INDUSTRIAL LED LUMINAIRE - DARK LICHT D120	12m	0.5m	5°	

BILL OF MATERIALS		
ITEM	LENGTH (IF APPLICABLE)	QUANTITY (IF APPLICABLE)
LIGHT FITTING	-	5
LIGHT POLE	-	5
CABLE	750m	
CONDUIT	750m	
ELECTRICAL PIT AND LID (665 x 665 x 920mm DEEP POLYCRETE LID WITH CLASS B LID)	-	5
ELECTRICAL PIT AND LID (665 x 665 x 920mm DEEP POLYCRETE LID WITH CLASS D LID)	-	2



LIGHT POLE CIRCUIT ARRANGEMENT

NOTES:

- BILL OF MATERIALS IS PROVIDED FOR REFERENCE ONLY AND IS SUBJECT TO CHANGE UPON DETAILED DESIGN. CONTRACTOR TO MEASURE ALL DISTANCES PRIOR TO THE PROCUREMENT OF MATERIALS.
- EXISTING EXTERNAL LIGHTING CONTROL IS TO REMAIN. NEW LIGHTS ARE TO BE FED FROM EXISTING LIGHTING CONTROL CIRCUITS.
- ITEMS IN GRAY ARE EXISTING AND ARE INCLUDED IN THE DRAWINGS FOR INFORMATION ONLY. WORKS ARE NOT PROPOSED ON ITEMS COLOURED GRAY.

E	ISSUED FOR PRELIMINARY DESIGN APPROVALS			GM	09.05.25	
D	REVISED FINAL PRELIMINARY DESIGN			LS	GM	21.06.24
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B	FINAL PRELIMINARY DESIGN			LS	GM	23.11.23
A	PRELIMINARY DESIGN			HT	GM	21.09.23
Rev	Description			Checked	Approved	Date
Author	C.PURDON			Drafting Check	B.DREW	
Designer	S.HAYNES-COOKE			Design Check	L.SCHROETER	

Plot Date: 9 May 2025 - 9:28 AM

Plotted by: Corinne Purdon

File Name: C:\12d\ISW\data\IP-00-12D-00\122-12609381 - Cooranbong Stockpile Extension_2642\CADD\AutoCAD\DRG\12609381-GHD-00-00-DRG-CI-00045.dwg



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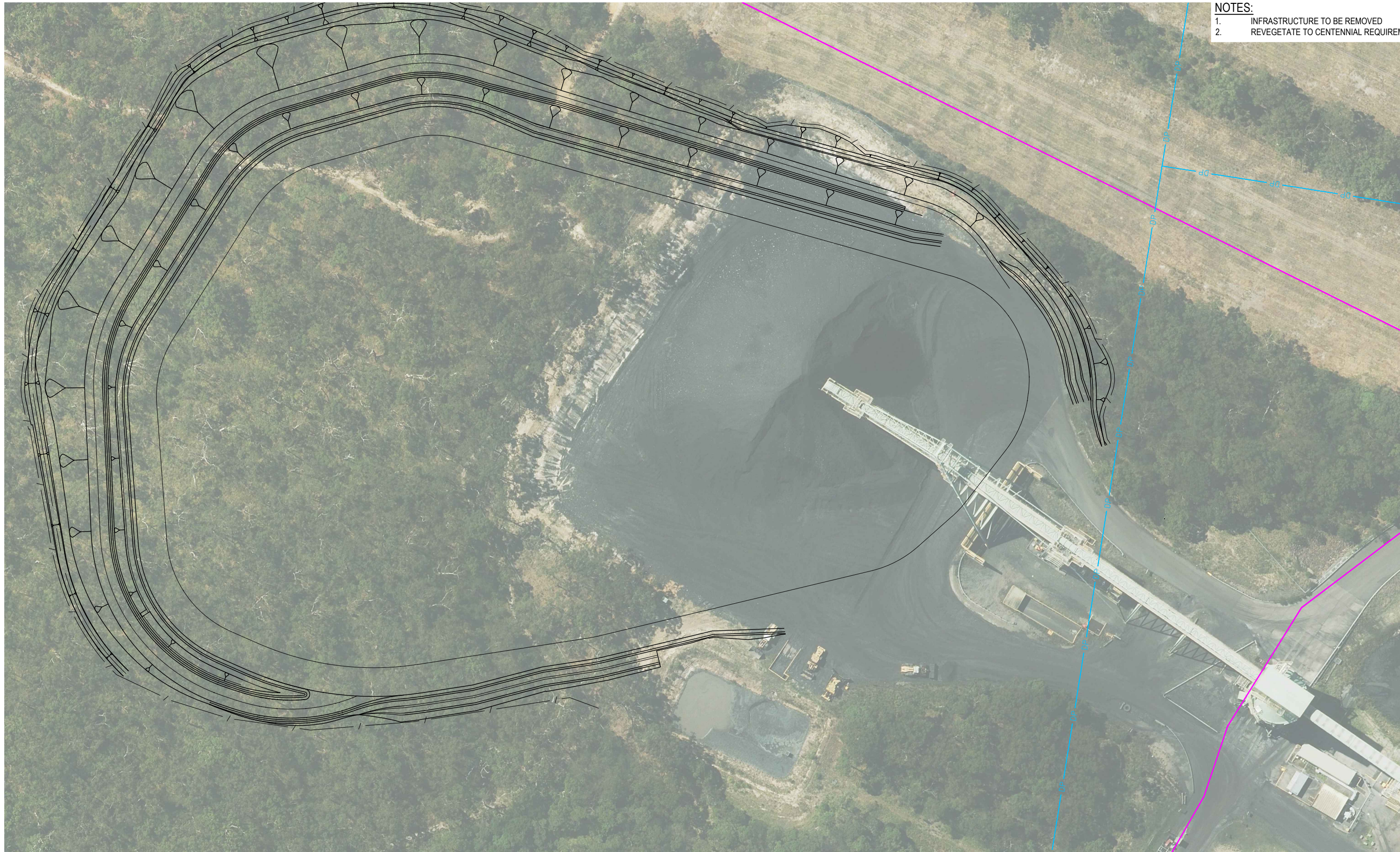
Client	CENTENNIAL Mandalong Pty Ltd
Project	COORANBONG STOCKPILE EXTENSION
Status	PRELIMINARY

Drawing Title
SLD AND DETAILS
PROPOSED LIGHTING
INFRASTRUCTURE

Drawing No.
12609381-GHD-00-00-DRG-CI-00046

Size
A3

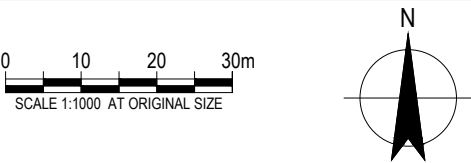
Rev
E



- NOTES:**
1. INFRASTRUCTURE TO BE REMOVED
 2. REVEGETATE TO CENTENNIAL REQUIREMENTS

PLAN
SCALE 1:1000

E	ISSUED FOR PRELIMINARY DESIGN APPROVAL	LS	GM	09.05.25
D	REVISED FINAL PRELIMINARY DESIGN	LS	GM	21.06.24
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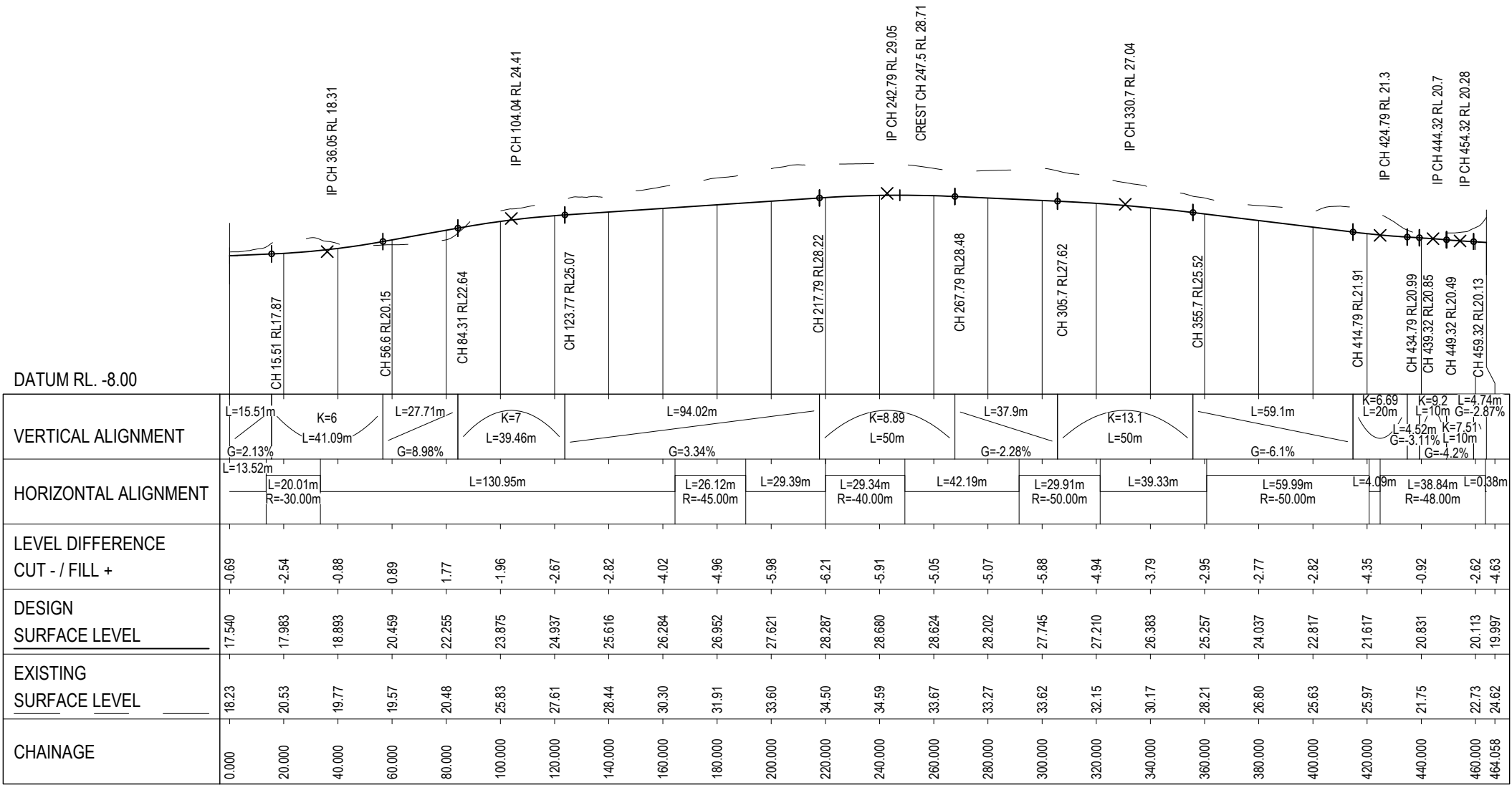
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Client	CENTENNIAL MANDALONG Pty Ltd
Project	COORANBONG STOCKPILE EXTENSION
Status	PRELIMINARY

Drawing Title	REHABILITATION CONCEPT DESIGN
Drawing No.	12609381-GHD-00-00-DRG-CI-00048

Size
A3
Rev
E

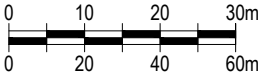


LONGITUDINAL SECTION - LIGHT VEHICLE ACCESS TRACK

HORIZONTAL SCALE 1:2000
VERTICAL SCALE 1:1000

E	ISSUED FOR PRELIMINARY DESIGN APPROVAL	LS	GM	09.05.25
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Author	C.PURDON	Drafting Check	B.DREW	
Designer	R.JOHNSON	Design Check	L.SCHROETER	

VERTICAL SCALE 1:1000
AT ORIGINAL SIZE
HORIZONTAL SCALE 1:2000
AT ORIGINAL SIZE



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Project No.
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Client CENTENNIAL Mandalong Pty Ltd
Project COORANBONG STOCKPILE EXTENSION
Status PRELIMINARY

Drawing Title
LONGITUDINAL SECTION
RD01

12609381-GHD-00-00-DRG-CI-00050

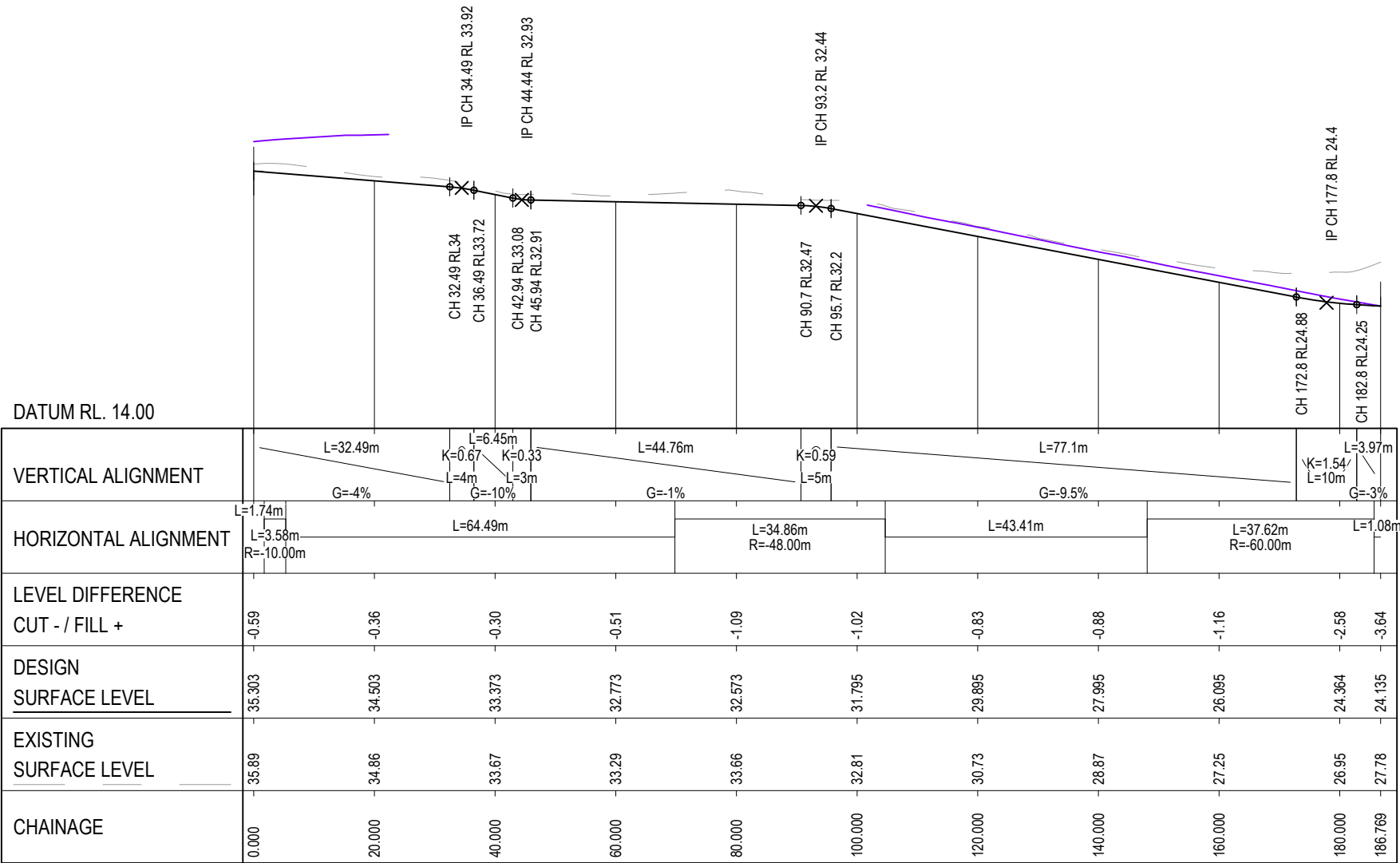
Size
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Rev
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LEGEND:

DESIGN SURFACE LEVEL

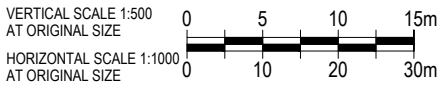
EXISTING SURFACE LEVEL
(JULY 2023 SURVEY)

EXISTING SURFACE LEVEL
(SEPTEMBER 2023 SURVEY)



LONGITUDINAL SECTION - DRAIN 01
HORIZONTAL SCALE 1:1000
VERTICAL SCALE 1:500

E	ISSUED FOR PRELIMINARY DESIGN APPROVAL	LS	GM	09.05.25
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Status	PRELIMINARY

Drawing Title
LONGITUDINAL SECTIONS
DRAINS
SHEET 1 OF 3

Drawing No.
12609381-GHD-00-00-DRG-CI-00055

Size
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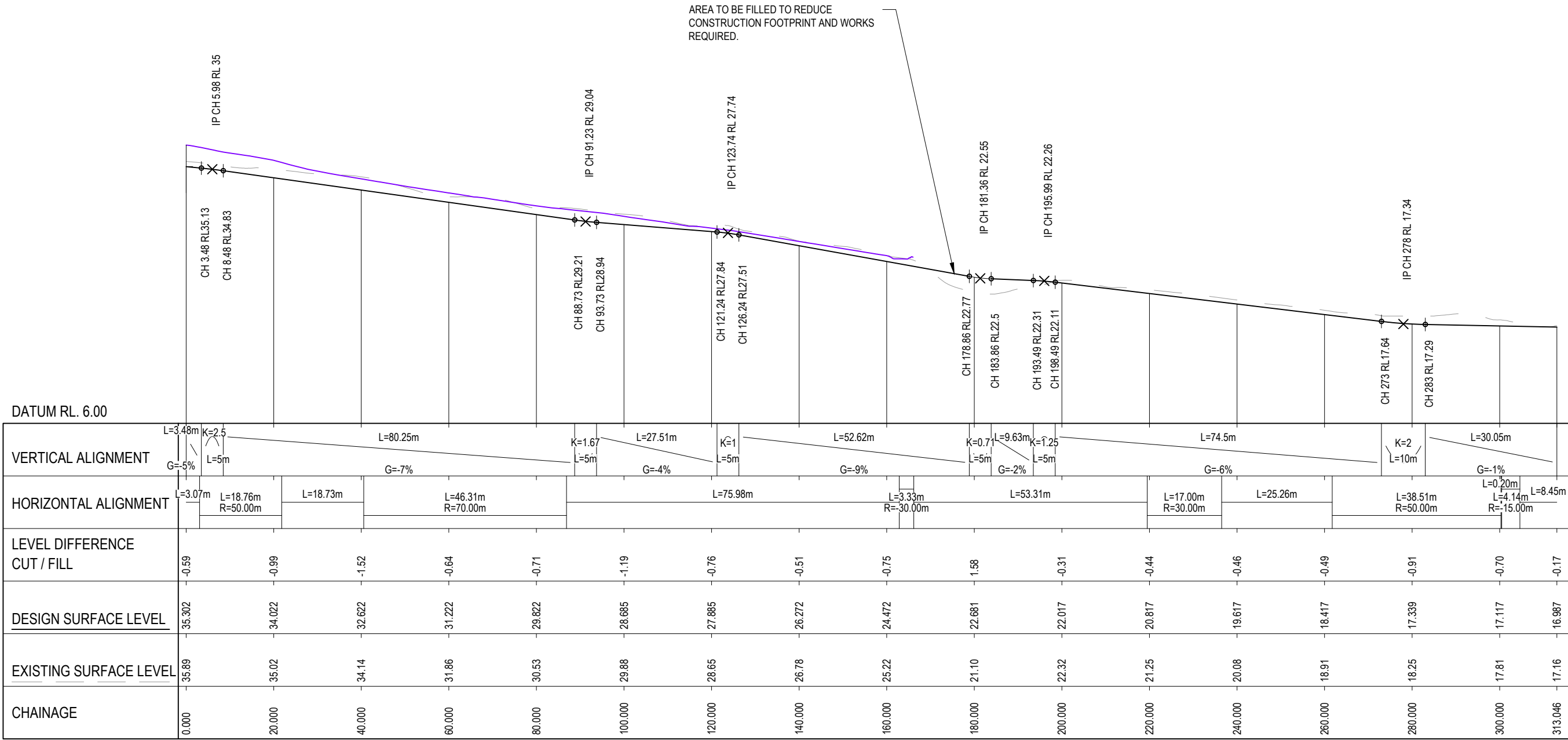
Rev
E

LEGEND:

DESIGN SURFACE LEVEL

EXISTING SURFACE LEVEL
(JULY 2023 SURVEY)

EXISTING SURFACE LEVEL
(SEPTEMBER 2023 SURVEY)

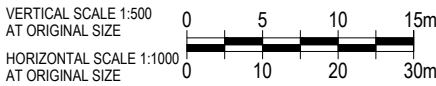


LONGITUDINAL SECTION - DRAIN 02

HORIZONTAL SCALE 1:1000

VERTICAL SCALE 1:500

D	ISSUED FOR PRELIMINARY DESIGN APPROVALS	LS	GM	09.05.25
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Author	J.MAYTOM	Drafting Check	B.DREW	
Designer	R.JOHNSON	Design Check	L.SCHROETER	



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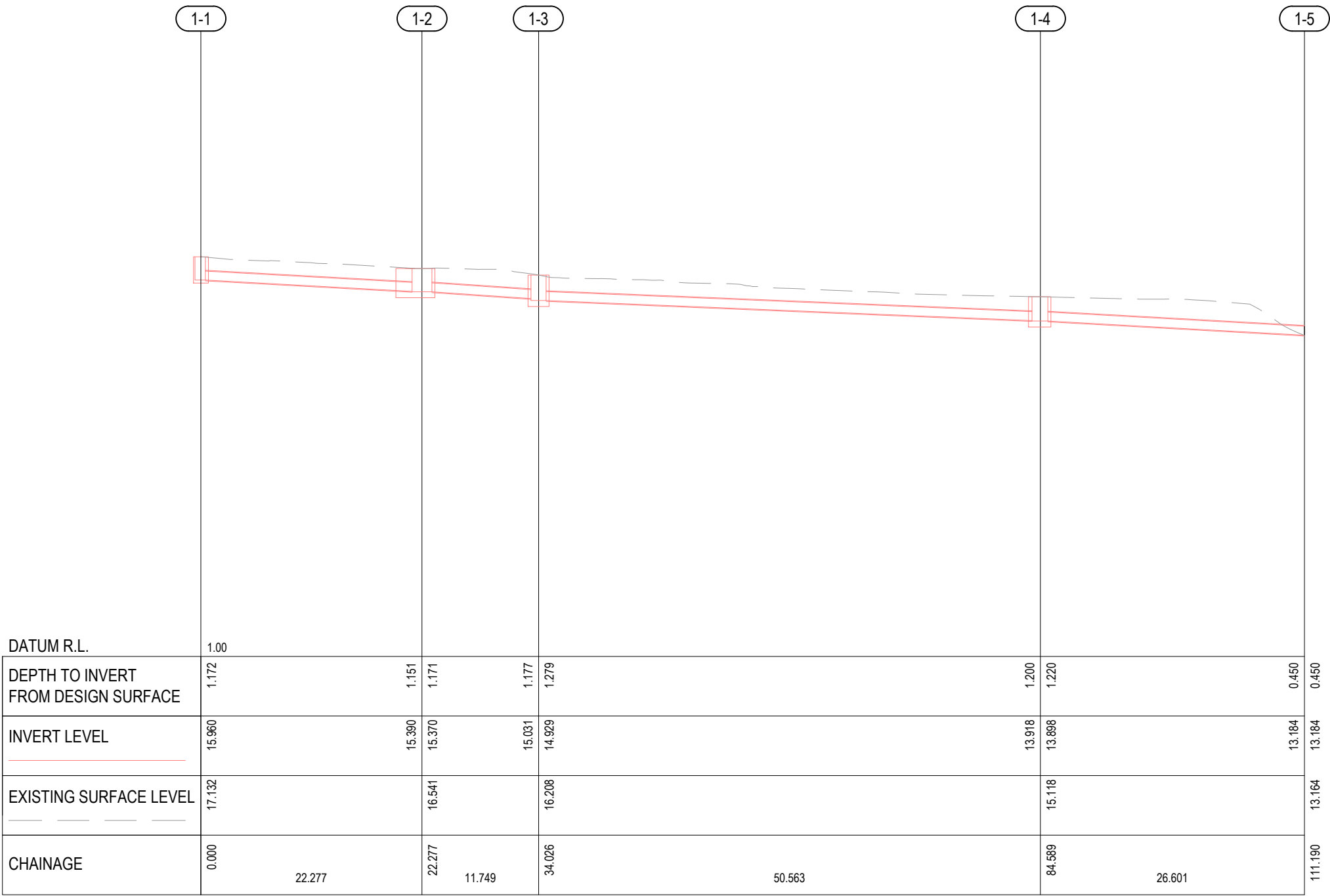
Client	CENTENNIAL Mandalong Pty Ltd
Project	COORANBONG STOCKPILE EXTENSION
Status	PRELIMINARY

Drawing Title
LONGITUDINAL SECTIONS
DRAINS
SHEET 2 OF 3

Drawing No.
12609381-GHD-00-00-DRG-CI-00056

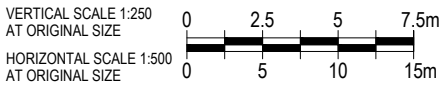
Size
A3

Rev
D



LONGITUDINAL SECTION - DIRTY WATER LINE
HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:250

D	ISSUED FOR PRELIMINARY DESIGN APPROVALS		GM	09.05.25	
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Rev	Description		Checked	Approved	Date
Author	J.MAYTOM	Drafting Check	B.DREW		
Designer	R.JOHNSON	Design Check	L.SCHROETER		



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Project No.
12609381

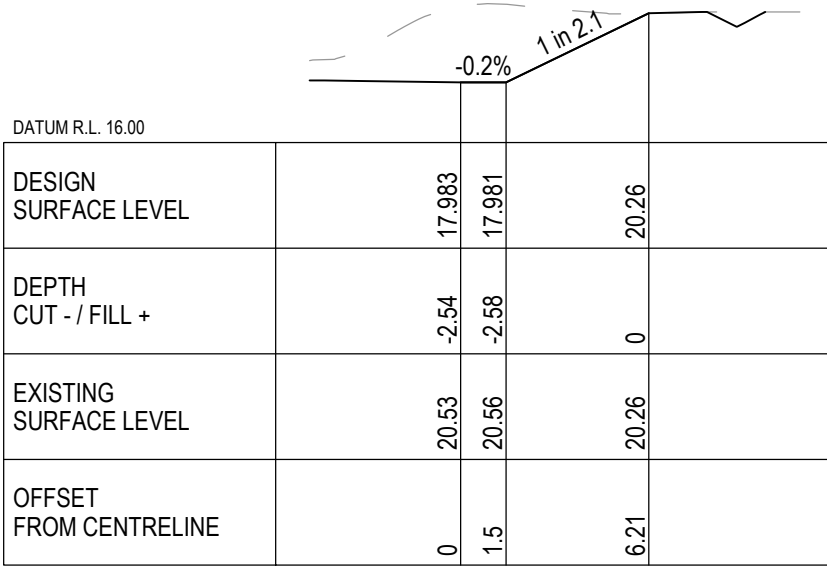
Client CENTENNIAL MANDALONG Pty Ltd
Project COORANBONG STOCKPILE EXTENSION
Status PRELIMINARY

Drawing Title
LONGITUDINAL SECTIONS
DRAINS
SHEET 3 OF 3

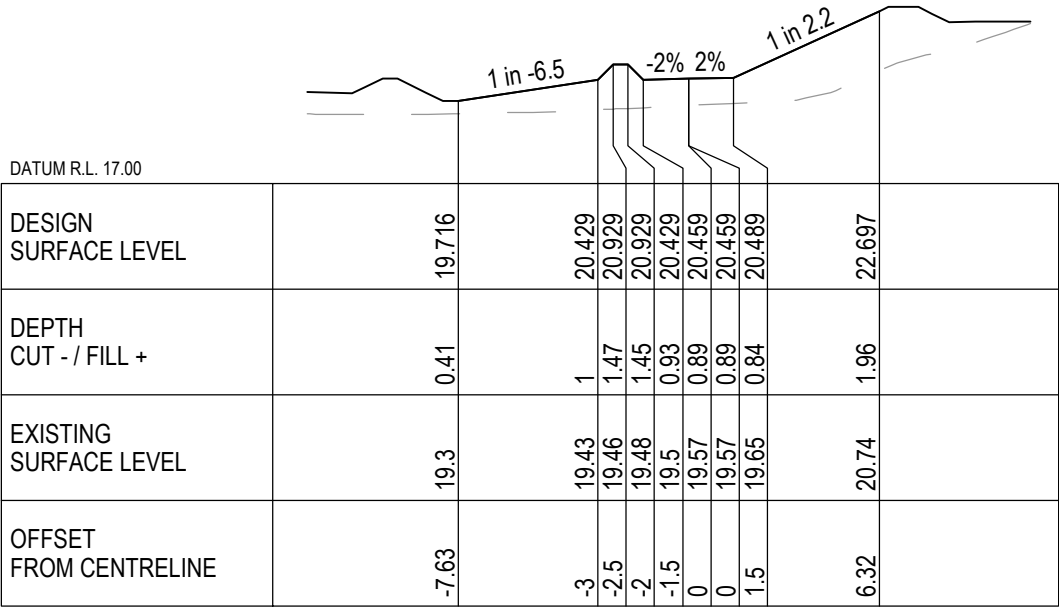
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Size
A3

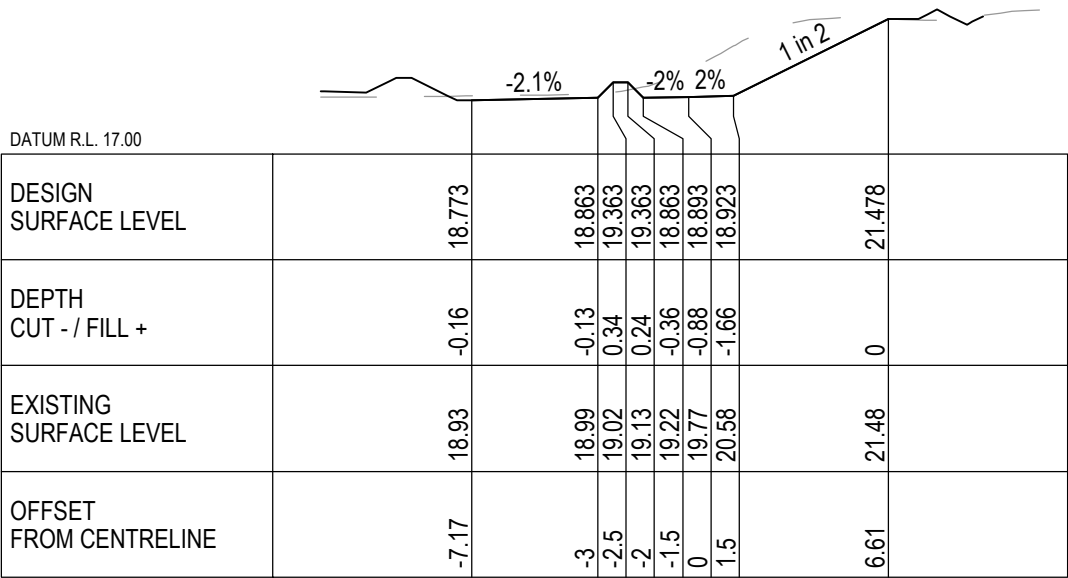
Rev
D



CH 20



CH 60



CH 40

LEGEND:

DESIGN SURFACE LEVEL

EXISTING SURFACE LEVEL (JULY 2023 SURVEY)

EXISTING SURFACE LEVEL (SEPTEMBER 2023 SURVEY)

E	ISSUED FOR PRELIMINARY DESIGN APPROVAL	LS	GM	09.05.25
D	REVISED FINAL PRELIMINARY DESIGN	LS	GM	21.06.24
C	UPDATED FINAL PRELIMINARY DESIGN	LS	GM	10.04.24
B	FINAL PRELIMINARY DESIGN	LS	GM	23.11.23
A	PRELIMINARY DESIGN	HT	GM	21.09.23
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Client	CENTENNIAL Mandalong Pty Ltd
Project	COORANBONG STOCKPILE EXTENSION
Status	PRELIMINARY

Drawing Title

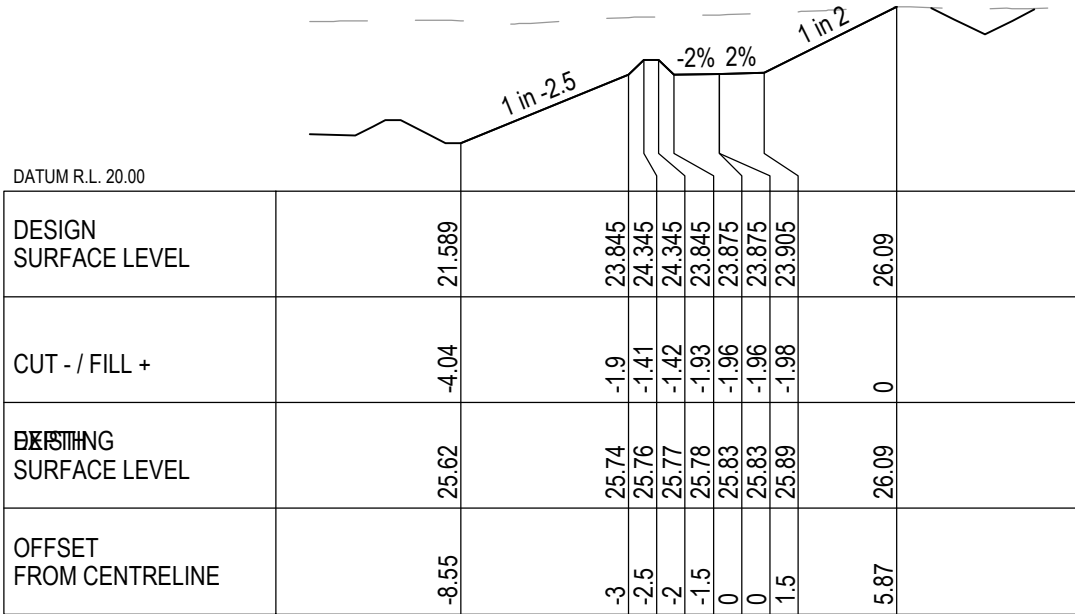
CROSS SECTIONS
RD01
SHEET 1 OF 7

Drawing No.

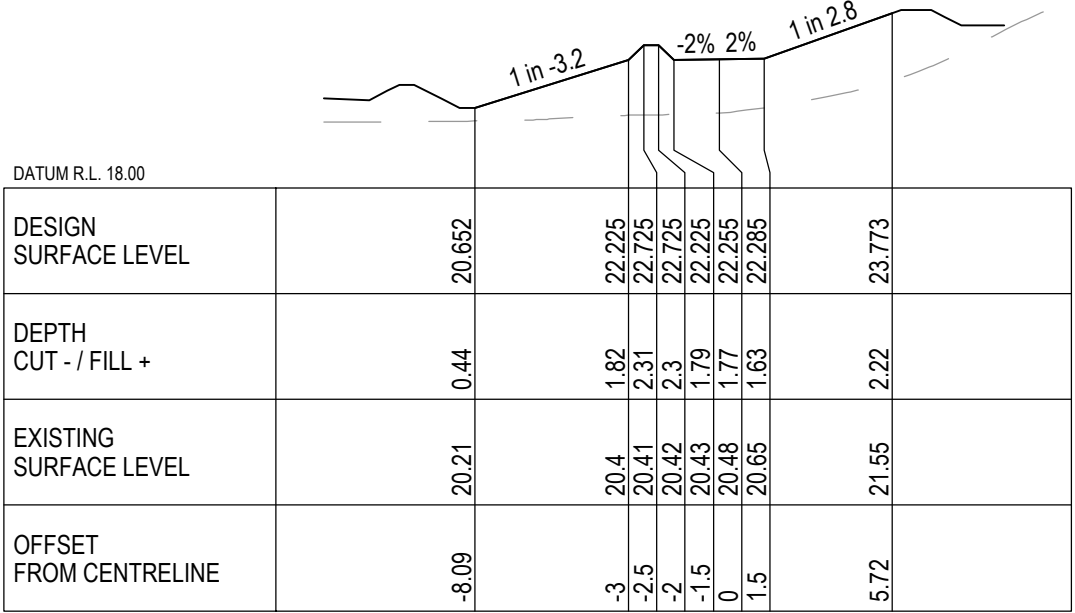
12609381-GHD-00-00-DRG-CI-00060

Rev

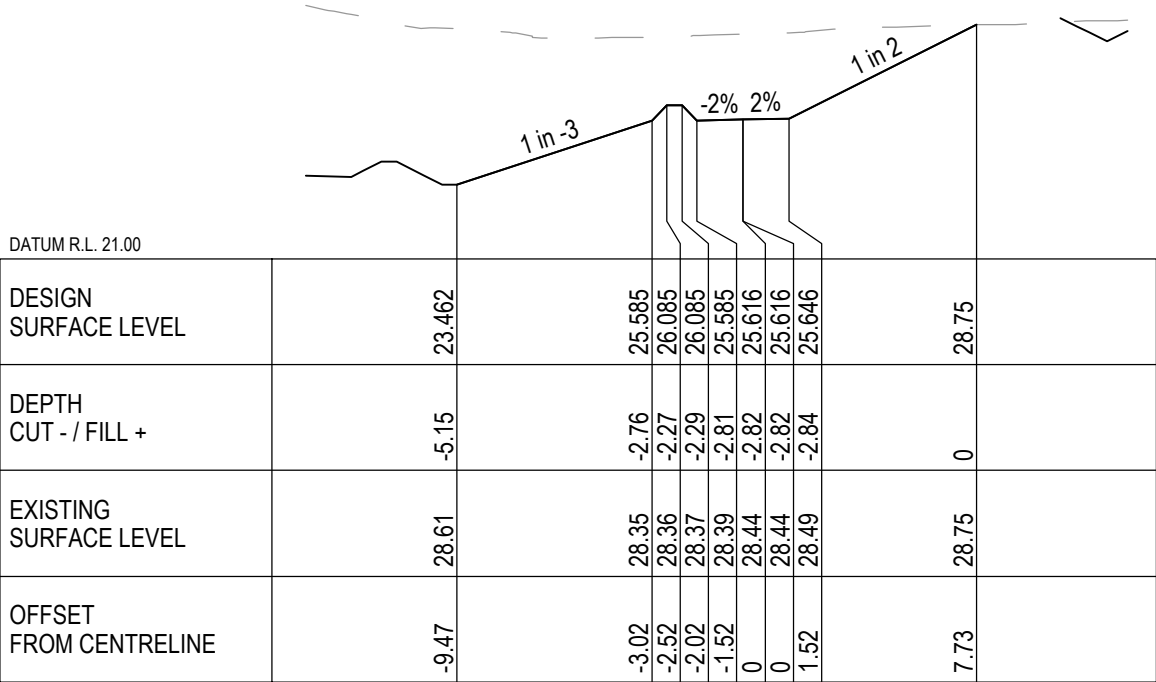
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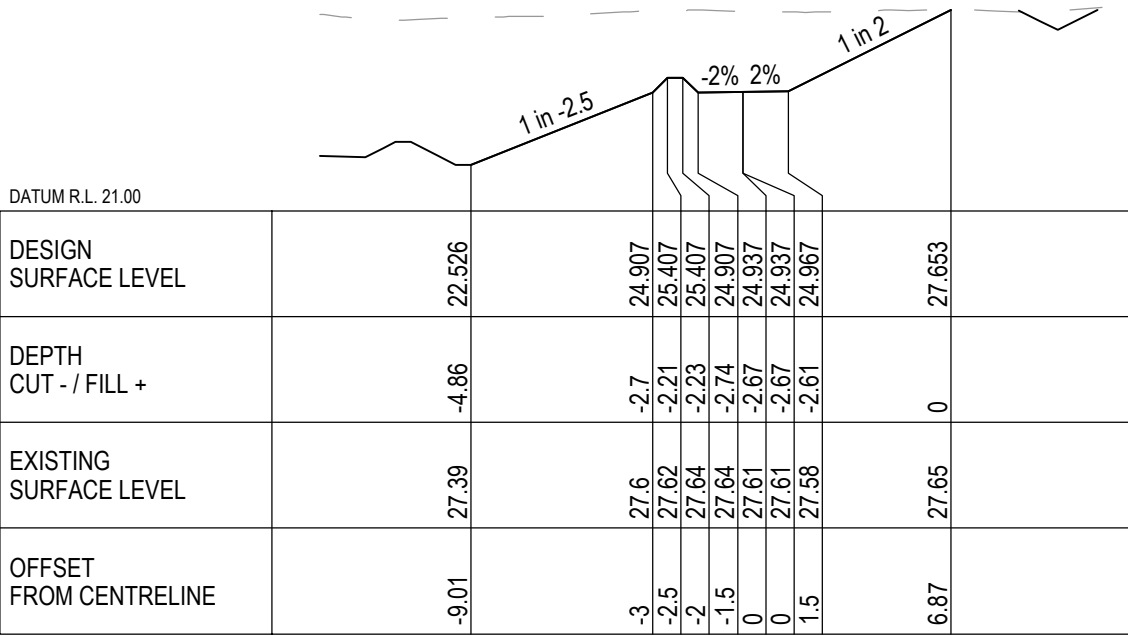
CH 100



CH 80



CH 140



CH 120

LEGEND:

DESIGN SURFACE LEVEL

EXISTING SURFACE LEVEL (JULY 2023 SURVEY)

EXISTING SURFACE LEVEL (SEPTEMBER 2023 SURVEY)

E	ISSUED FOR PRELIMINARY DESIGN APPROVAL	LS	GM	09.05.25
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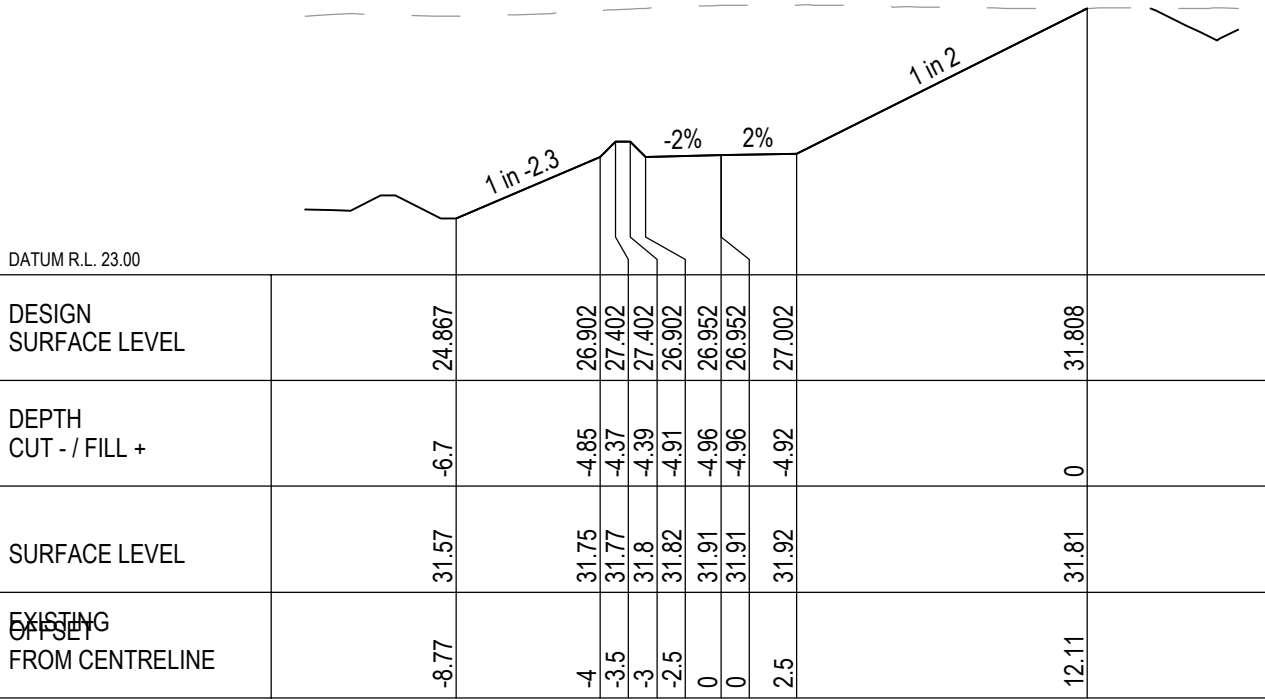
Client	CENTENNIAL Mandalong Pty Ltd
Project	COORANBONG STOCKPILE EXTENSION
Status	PRELIMINARY

Drawing Title
CROSS SECTIONS
RD01
SHEET 2 OF 7

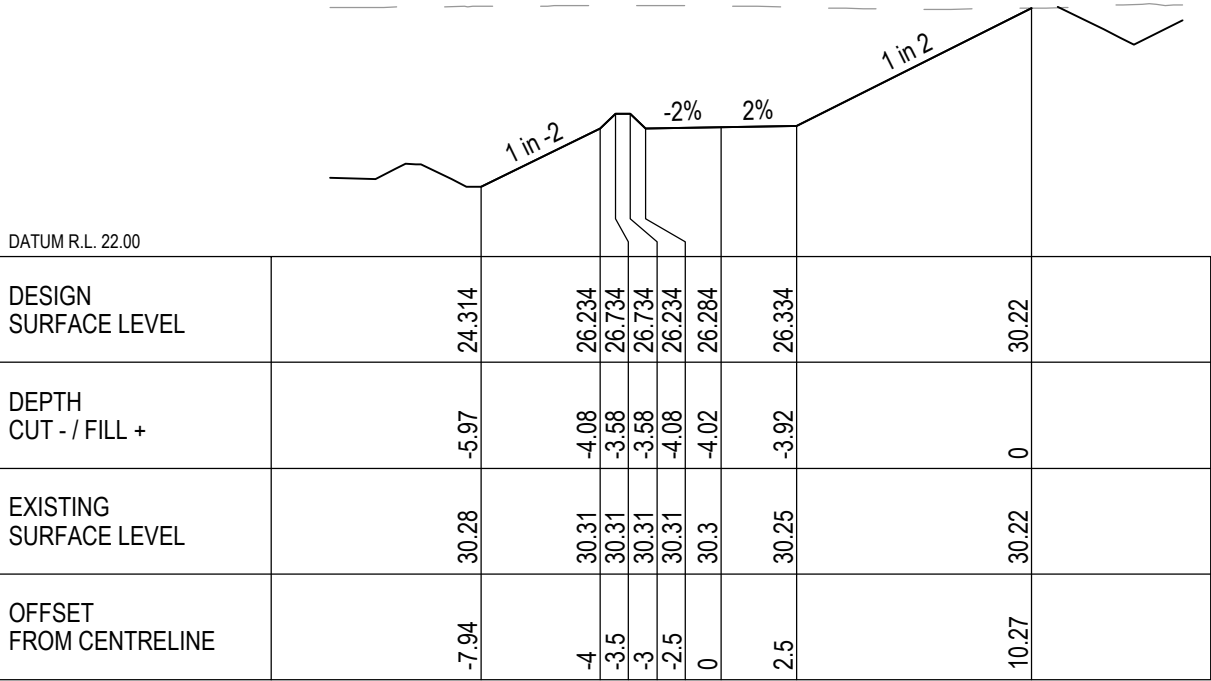
Drawing No.
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Size
A3

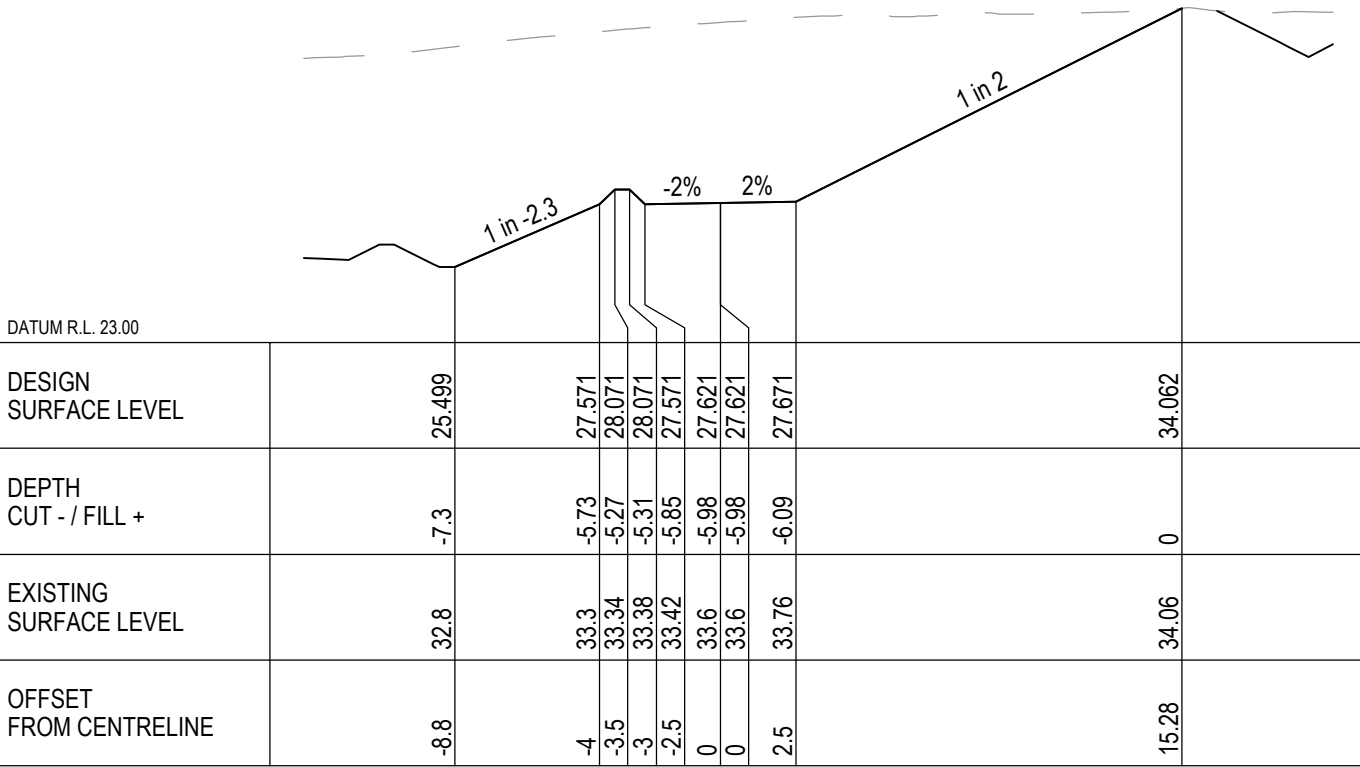
Rev
E



CH 180



CH 160



CH 200

LEGEND:

- DESIGN SURFACE LEVEL
- EXISTING SURFACE LEVEL (JULY 2023 SURVEY)
- EXISTING SURFACE LEVEL (SEPTEMBER 2023 SURVEY)

NOTE:

- CLEAN WATER DIVERSION DRAIN AT TOP OF BATTER VARIED DEPTH. MIN 0.5m DEEP WITH 2(H):1(V) BATTERS.

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C	UPDATED FINAL PRELIMINARY DESIGN	LS	GM	10.04.24
B	FINAL PRELIMINARY DESIGN	LS	GM	23.11.23
A	PRELIMINARY DESIGN	HT	GM	21.09.23
Rev	Description	Checked	Approved	Date
Author	C.PURDON	Drafting Check	B.DREW	
Designer	R.JOHNSON	Design Check	L.SCHROETER	



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Project No.
12609381

Client CENTENNIAL Mandalong Pty Ltd
Project COORANBONG STOCKPILE EXTENSION
Status PRELIMINARY

Drawing Title
CROSS SECTIONS
RD01
SHEET 3 OF 7

Drawing No.
12609381-GHD-00-00-DRG-CI-00062

Size
A3

Rev
E

LEGEND:

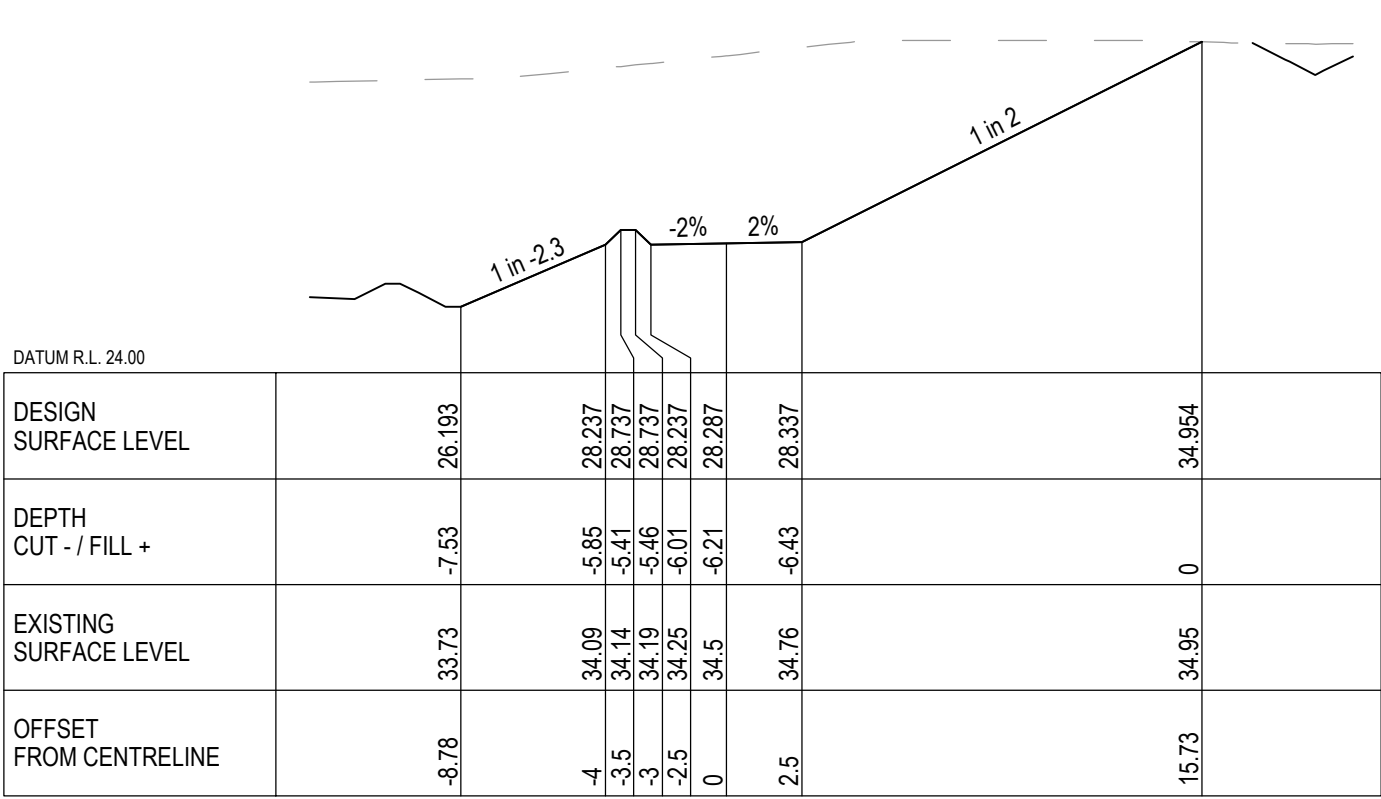
DESIGN SURFACE LEVEL

EXISTING SURFACE LEVEL
(JULY 2023 SURVEY)

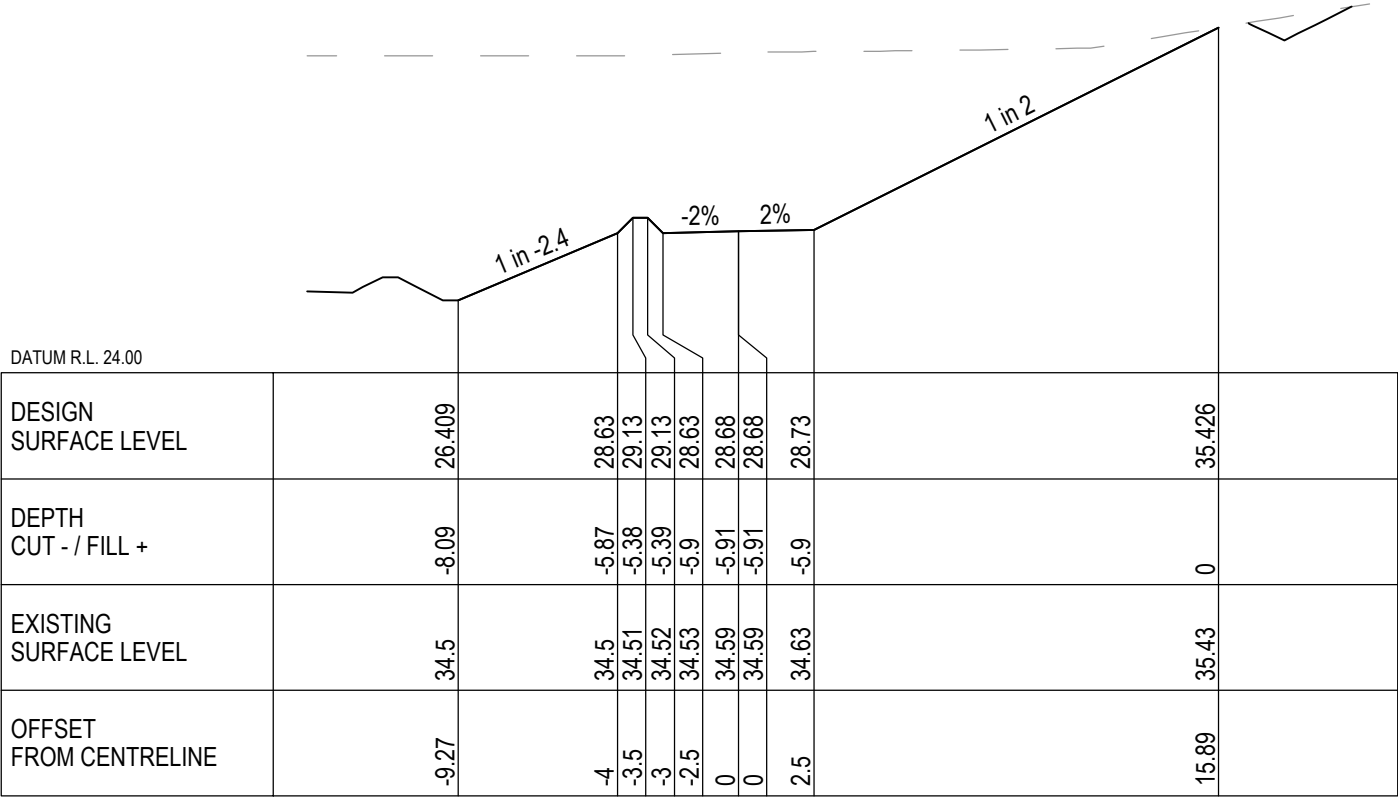
EXISTING SURFACE LEVEL
(SEPTEMBER 2023 SURVEY)

NOTE:

- CLEAN WATER DIVERSION DRAIN AT TOP OF
BATTER VARIED DEPTH. MIN 0.5m DEEP WITH
2(H):1(V) BATTERS.



CH 220



CH 240

E	ISSUED FOR PRELIMINARY DESIGN APPROVAL	LS	GM	09.05.25
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C	UPDATED FINAL PRELIMINARY DESIGN	LS	GM	10.04.24
B	FINAL PRELIMINARY DESIGN	LS	GM	23.11.23
A	PRELIMINARY DESIGN	HT	GM	21.09.23
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Author	C.PURDON	Drafting Check	B.DREW	
Designer	R.JOHNSON	Design Check	L.SCHROETER	



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Project No.
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Client	CENTENNIAL Mandalong Pty Ltd
Project	COORANBONG STOCKPILE EXTENSION
Status	PRELIMINARY

Drawing Title	CROSS SECTIONS RD01 SHEET 4 OF 7
Drawing No.	12609381-GHD-00-00-DRG-CI-00063

Size
A3

Rev
E

LEGEND:

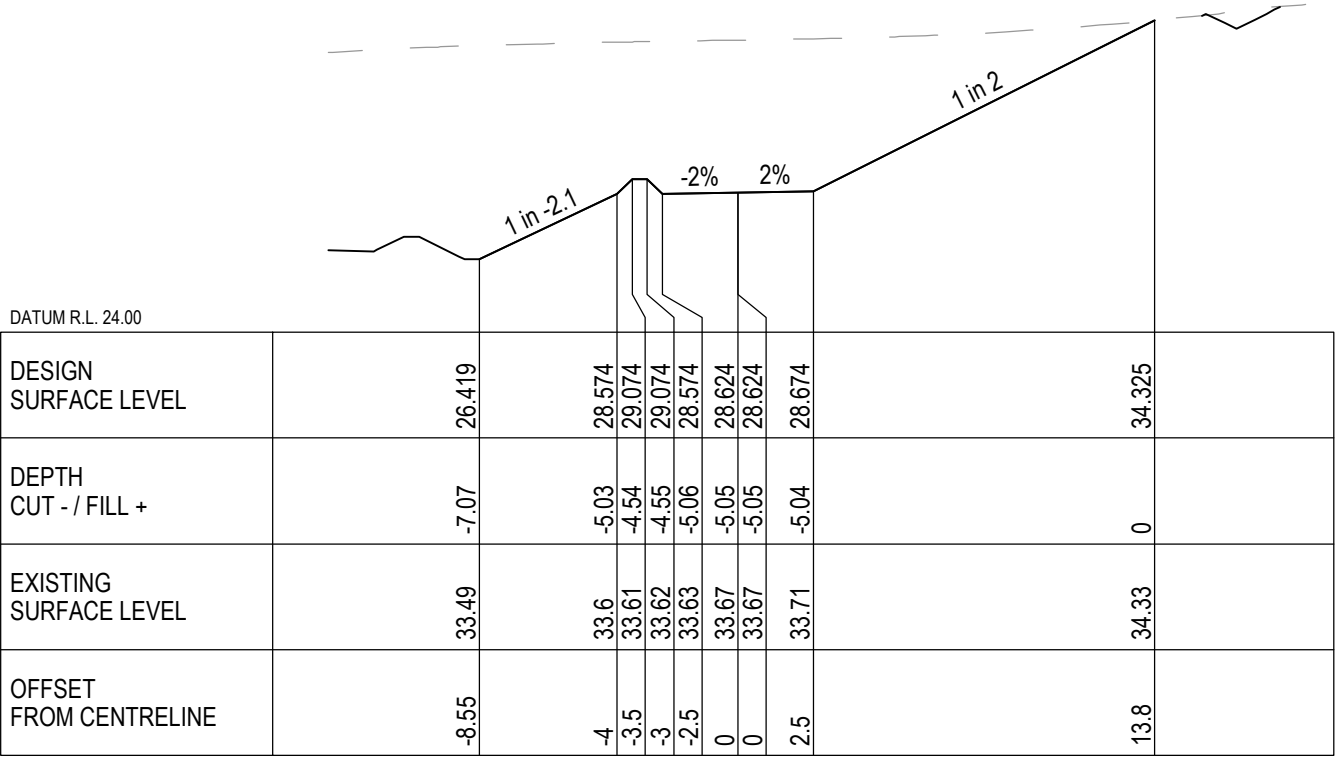
DESIGN SURFACE LEVEL

EXISTING SURFACE LEVEL
(JULY 2023 SURVEY)

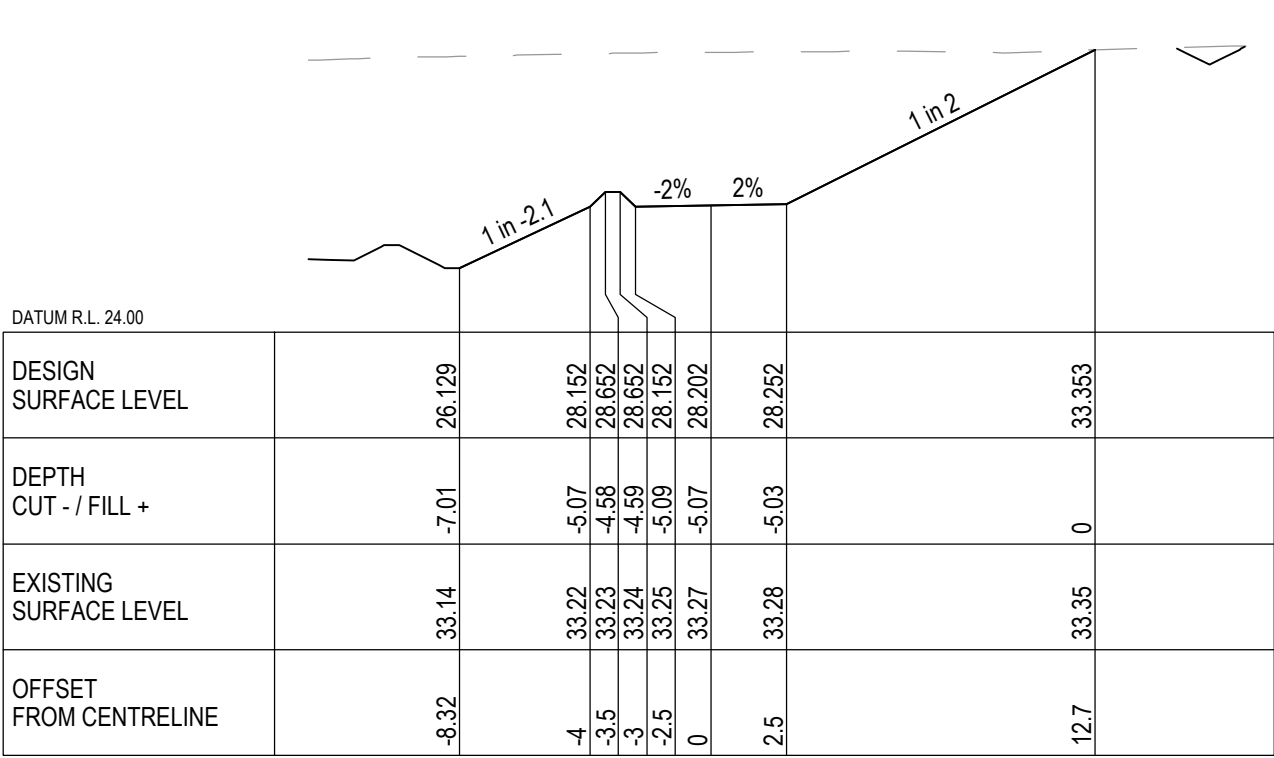
EXISTING SURFACE LEVEL
(SEPTEMBER 2023 SURVEY)

NOTE:

- CLEAN WATER DIVERSION DRAIN AT TOP OF BATTER VARIED DEPTH. MIN 0.5m DEEP WITH 2(H):1(V) BATTERS.



CH 260



CH 280

E	ISSUED FOR PRELIMINARY DESIGN APPROVAL	LS	GM	09.05.25
D	REVISED FINAL PRELIMINARY DESIGN	LS	GM	21.06.24
C	UPDATED FINAL PRELIMINARY DESIGN	LS	GM	10.04.24
B	FINAL PRELIMINARY DESIGN	LS	GM	23.11.23
A	PRELIMINARY DESIGN	HT	GM	21.09.23
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Author	C.PURDON	Drafting Check	B.DREW	
Designer	R.JOHNSON	Design Check	L.SCHROETER	



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12609381

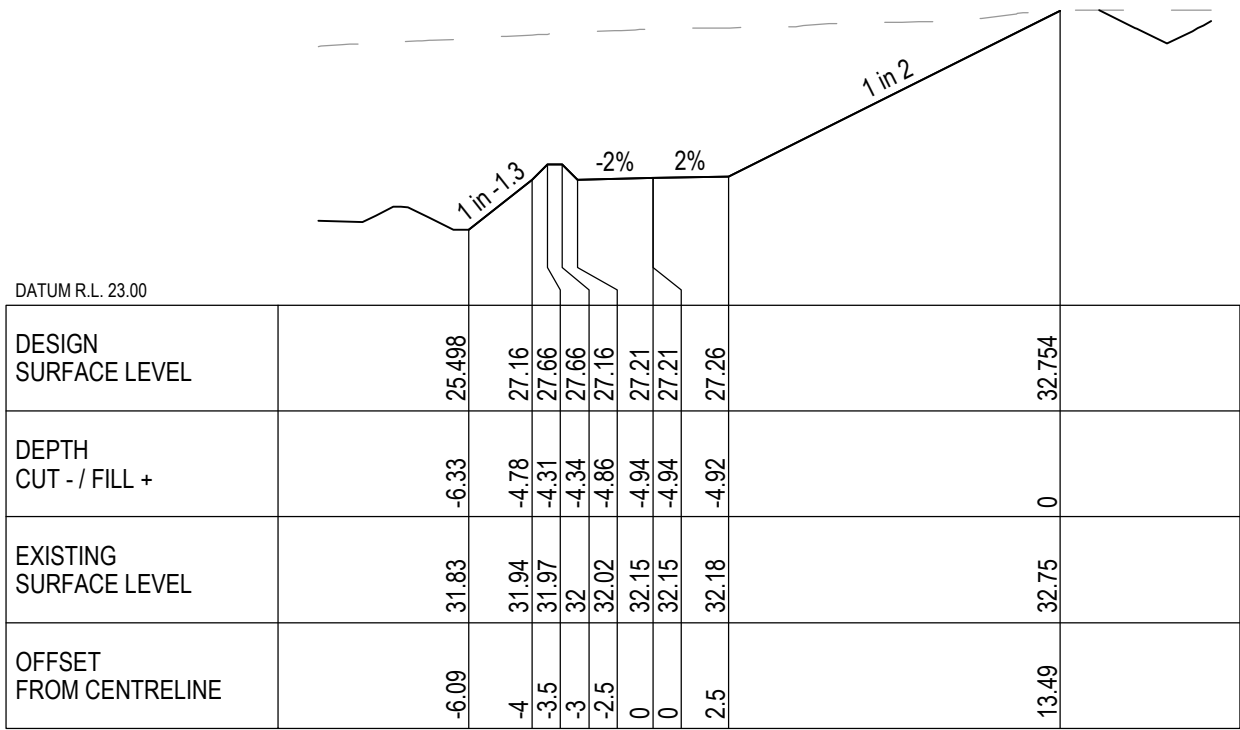
Client	CENTENNIAL Mandalong Pty Ltd
Project	COORANBONG STOCKPILE EXTENSION
Status	PRELIMINARY

Drawing Title
CROSS SECTIONS
RD01
SHEET 5 OF 7

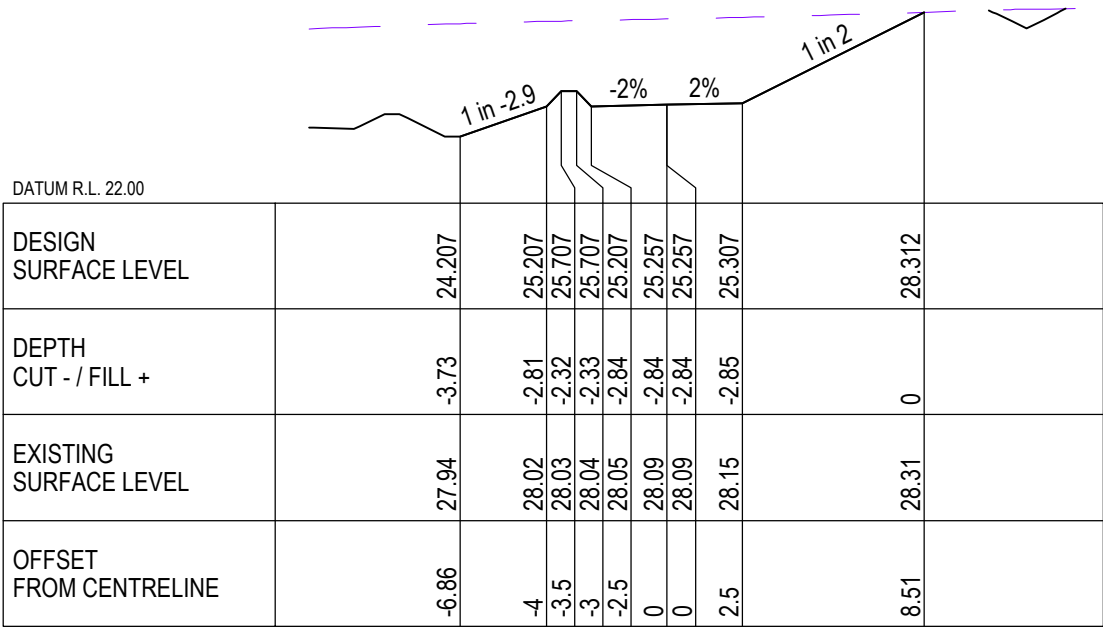
Drawing No.
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Size
A3

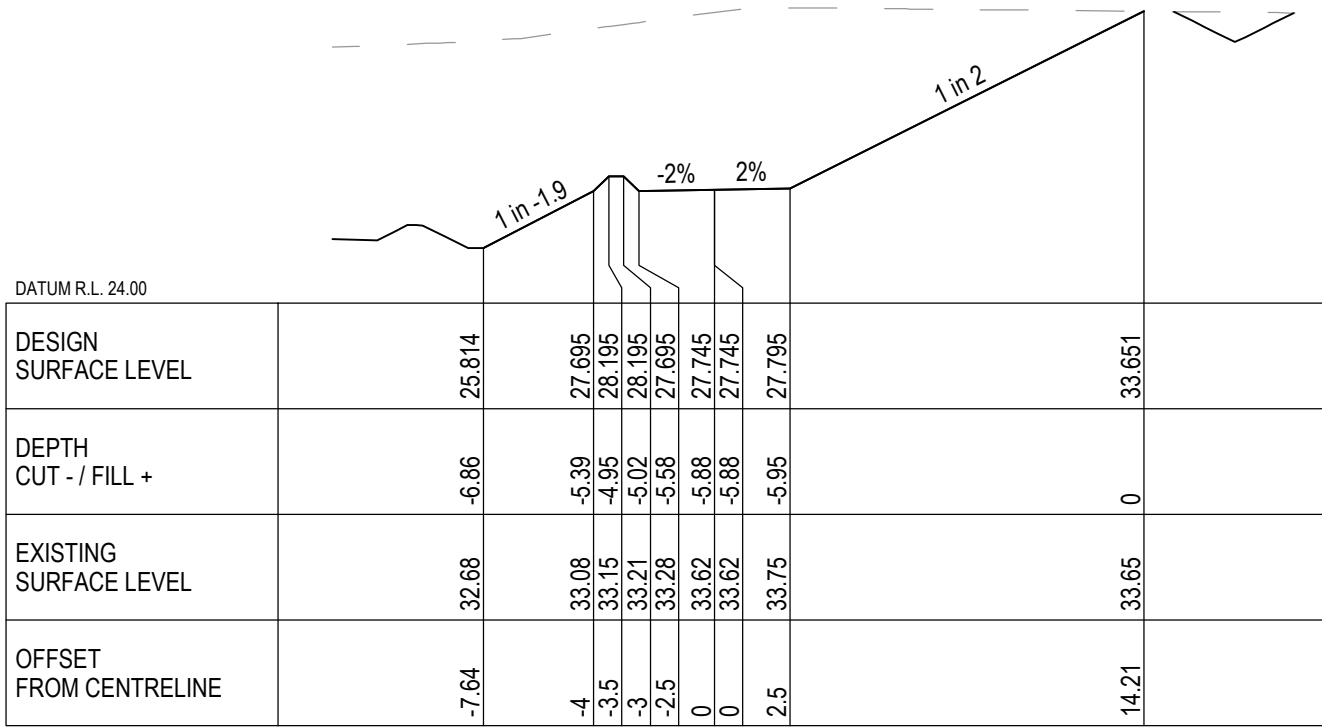
Rev
E



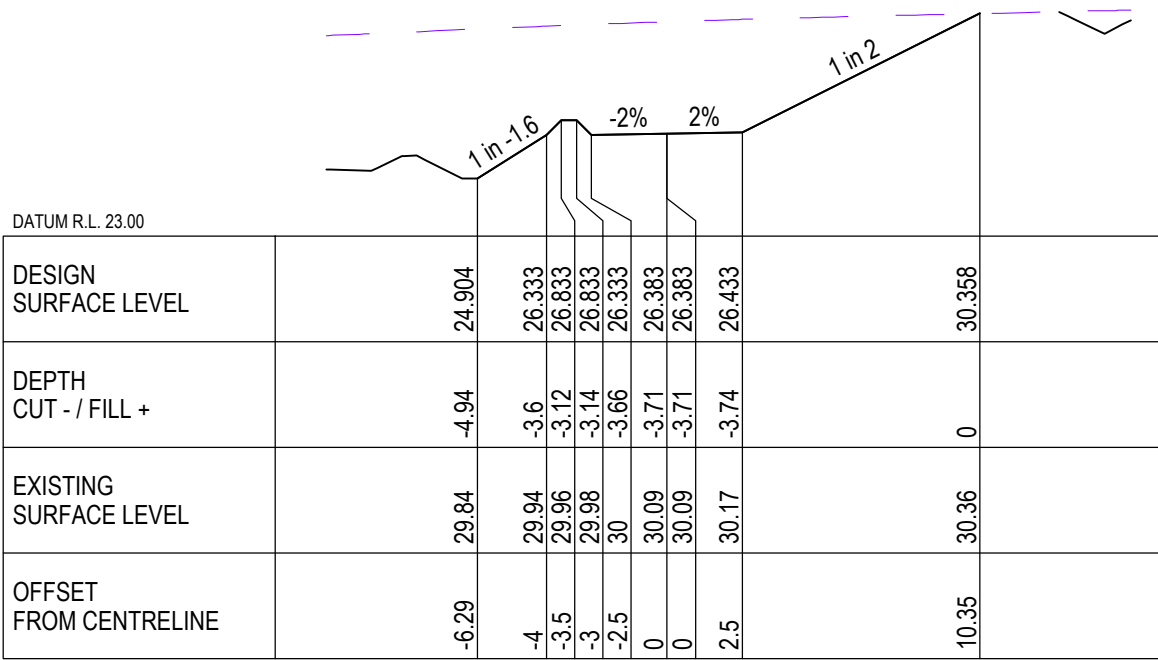
CH 320



CH 360



CH 300



CH 340

LEGEND:

- DESIGN SURFACE LEVEL
- EXISTING SURFACE LEVEL (JULY 2023 SURVEY)
- EXISTING SURFACE LEVEL (SEPTEMBER 2023 SURVEY)

NOTE:

- CLEAN WATER DIVERSION DRAIN AT TOP OF BATTER VARIED DEPTH. MIN 0.5m DEEP WITH 2(H):1(V) BATTERS.

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Project No.
12609381

Client	CENTENNIAL Mandalong Pty Ltd
Project	COORANBONG STOCKPILE EXTENSION
Status	PRELIMINARY

Drawing Title
CROSS SECTIONS
RD01
SHEET 6 OF 7

Drawing No.
12609381-GHD-00-00-DRG-CI-00065

Size
A3

Rev
E

LEGEND:

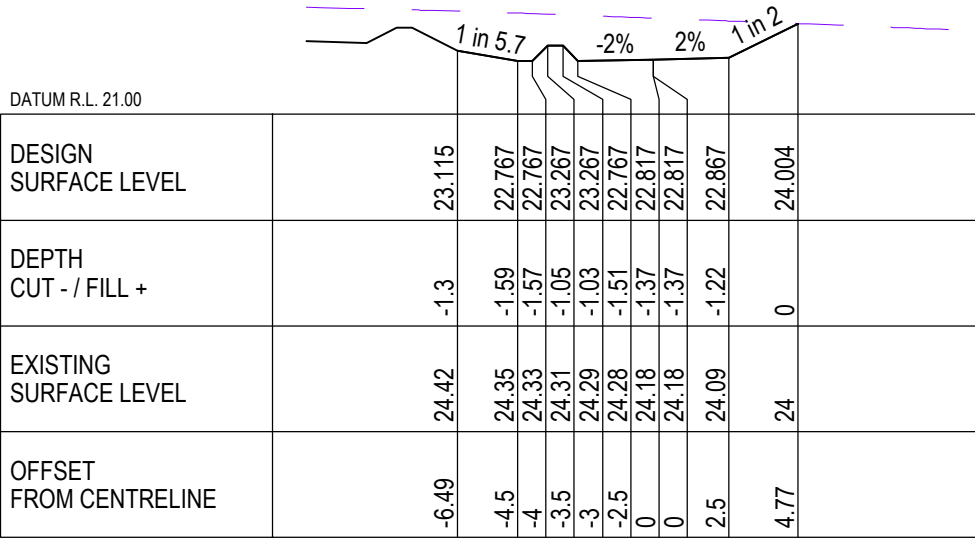
DESIGN SURFACE LEVEL

EXISTING SURFACE LEVEL
(JULY 2023 SURVEY)

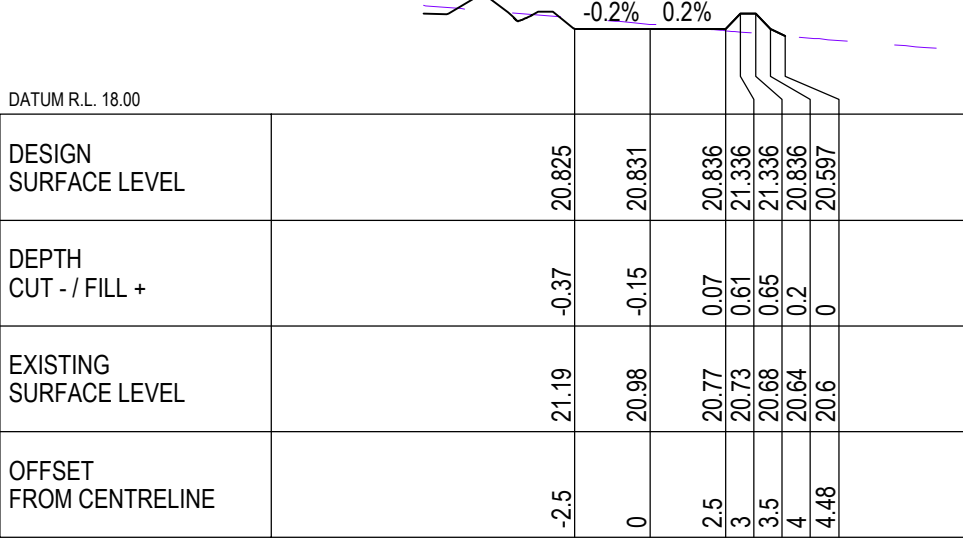
EXISTING SURFACE LEVEL
(SEPTEMBER 2023 SURVEY)

NOTE:

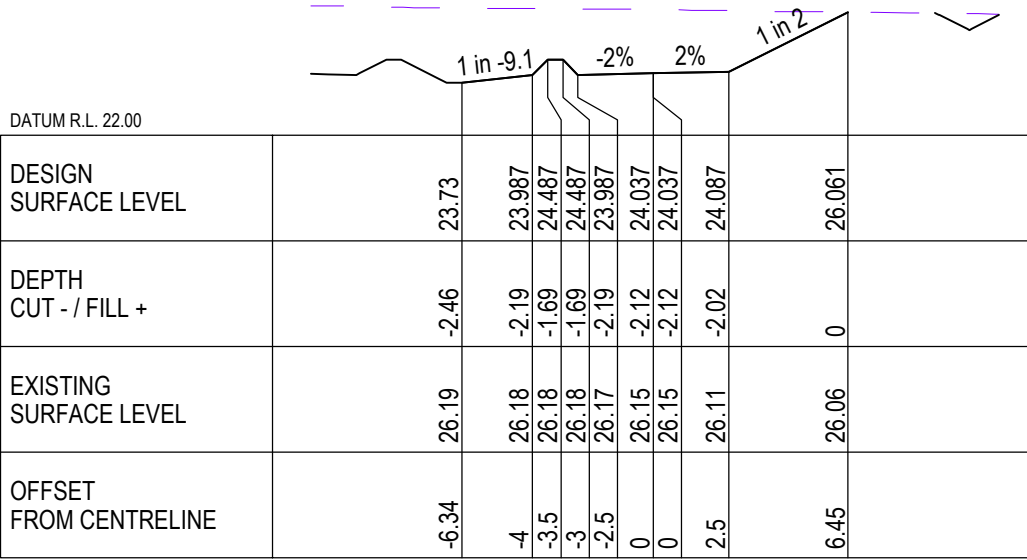
- CLEAN WATER DIVERSION DRAIN AT TOP OF BATTER VARIED DEPTH. MIN 0.5m DEEP WITH 2(H):1(V) BATTERS.



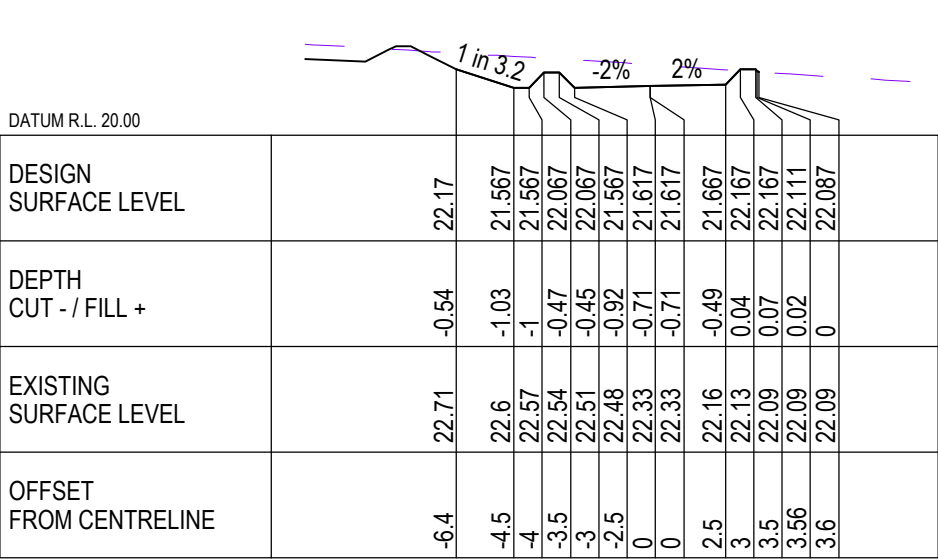
CH 400



CH 440



CH 380



CH 420

E	ISSUED FOR PRELIMINARY DESIGN APPROVAL	LS	GM	09.05.25
D	REVISED FINAL PRELIMINARY DESIGN	LS	GM	21.06.24
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Client	CENTENNIAL Mandalong Pty Ltd
Project	COORANBONG STOCKPILE EXTENSION
Status	PRELIMINARY

Drawing Title

CROSS SECTIONS
RD01
SHEET 7 OF 7

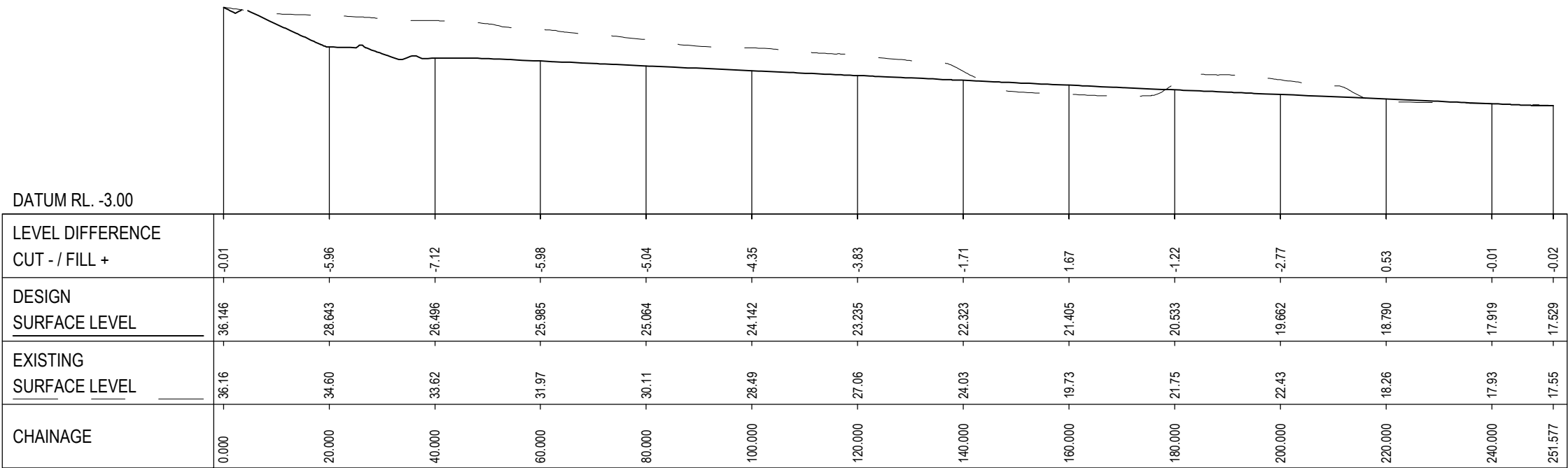
12609381-GHD-00-00-DRG-CI-00066

Rev E

LEGEND:

DESIGN STOCKPILE FLOOR

EXISTING SURFACE LEVEL
(JULY 2023 SURVEY)



A SECTION
CI-00010
SCALE 1 : 1000

E	ISSUED FOR PRELIMINARY DESIGN APPROVAL	LS	GM	09.05.25
D	REVISED FINAL PRELIMINARY DESIGN	LS	GM	21.06.24
C	UPDATED FINAL PRELIMINARY DESIGN	LS	GM	10.04.24
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Designer	R.JOHNSON	Design Check	L.SCHROETER	



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Project No.
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Client	CENTENNIAL Mandalong Pty Ltd
Project	COORANBONG STOCKPILE EXTENSION
Status	PRELIMINARY

Drawing Title
STOCKPILE SECTIONS
SHEET 1 OF 4

12609381-GHD-00-00-DRG-CI-00080

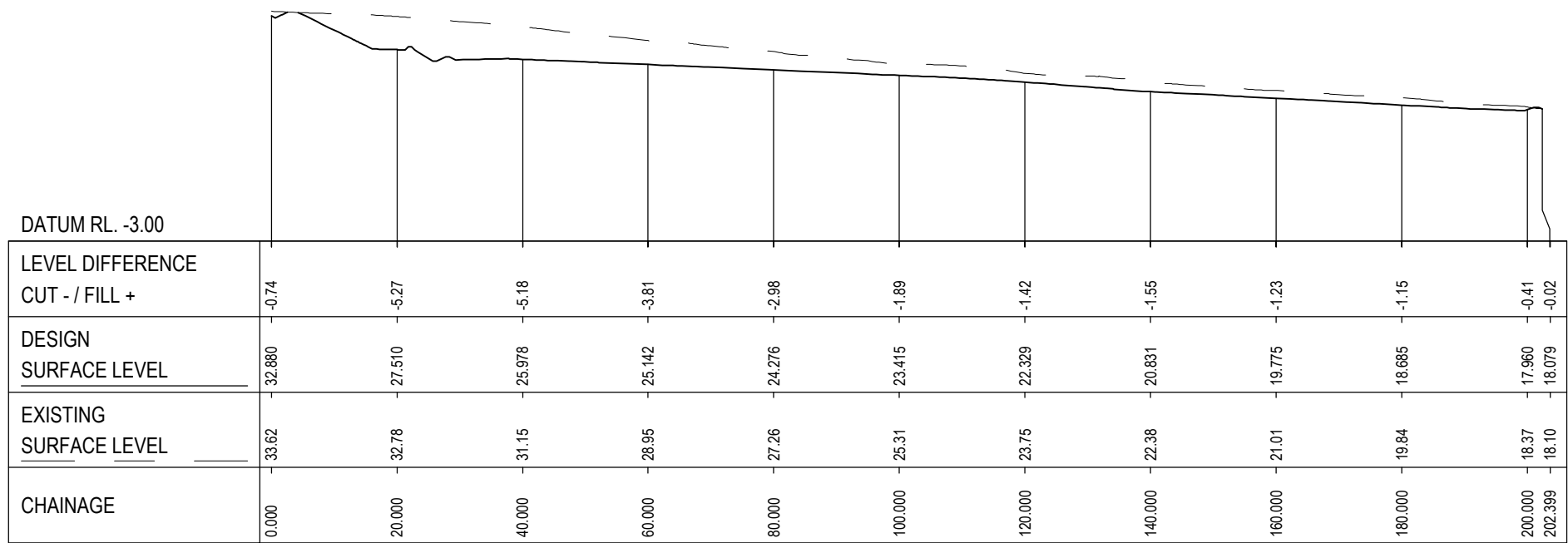
Size
A3

Rev
E

LEGEND:

DESIGN STOCKPILE FLOOR

EXISTING SURFACE LEVEL
(JULY 2023 SURVEY)



B SECTION
CI-00010
SCALE 1 : 1000

E	ISSUED FOR PRELIMINARY DESIGN APPROVAL	LS	GM	09.05.25
D	REVISED FINAL PRELIMINARY DESIGN	LS	GM	21.06.24
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Designer	R.JOHNSON	Design Check	L.SCHROETER	



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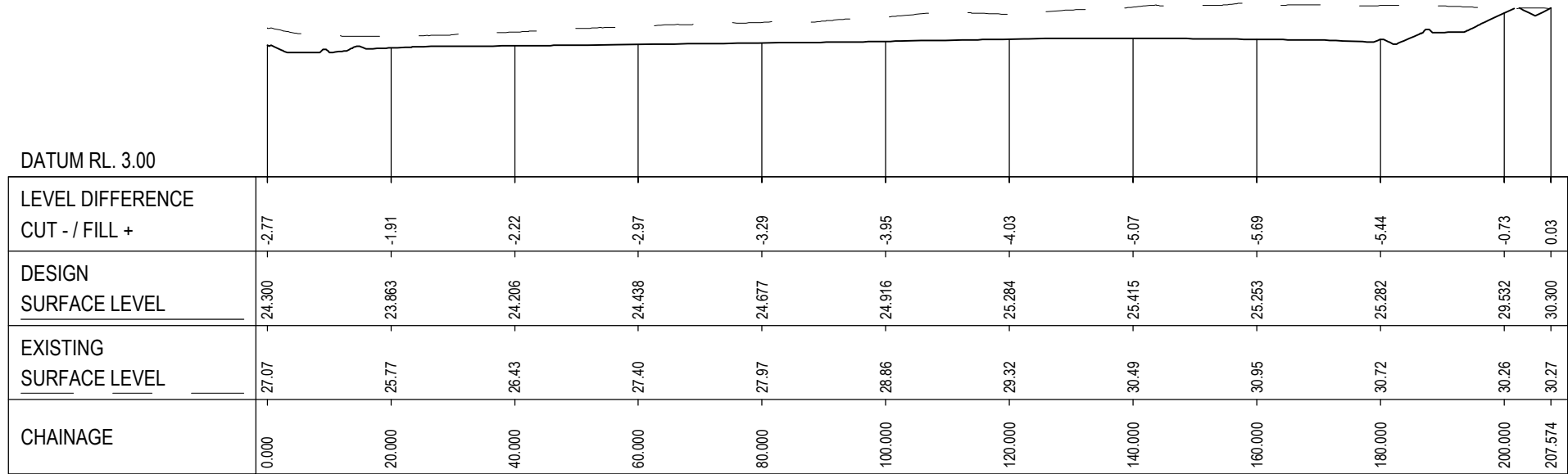
Project No.
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Client	CENTENNIAL Mandalong Pty Ltd	Drawing Title	STOCKPILE SECTIONS	Size	A3
Project	COORANBONG STOCKPILE EXTENSION		SHEET 2 OF 4		
Status	PRELIMINARY				
			12609381-GHD-00-00-DRG-CI-00081	Drawing No.	Rev E

LEGEND:

DESIGN STOCKPILE FLOOR

EXISTING SURFACE LEVEL
(JULY 2023 SURVEY)



C SECTION
CI-00010
SCALE 1 : 1000

E	ISSUED FOR PRELIMINARY DESIGN APPROVAL	LS	GM	09.05.25
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Project No.
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Client	CENTENNIAL Mandalong Pty Ltd
Project	COORANBONG STOCKPILE EXTENSION
Status	PRELIMINARY

Drawing Title
STOCKPILE SECTIONS

SHEET 3 OF 4

Drawing No.
12609381-GHD-00-00-DRG-CI-00082

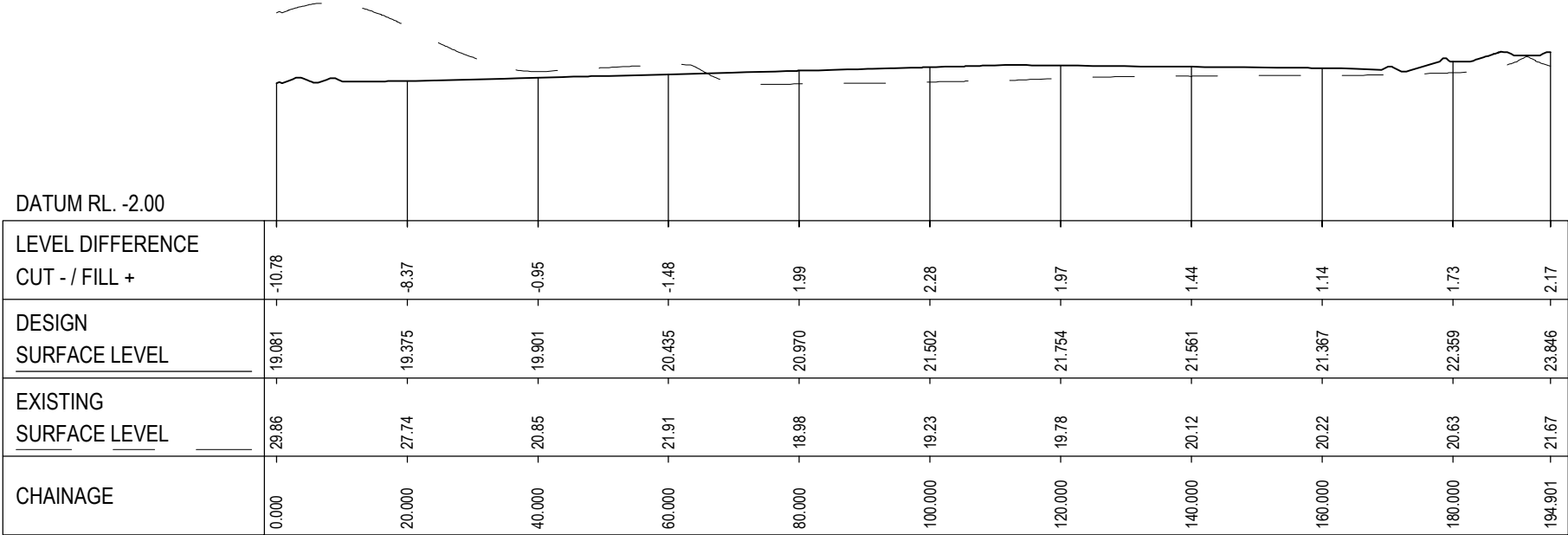
Size
A3

Rev
E

LEGEND:

DESIGN STOCKPILE FLOOR

EXISTING SURFACE LEVEL
(JULY 2023 SURVEY)



D SECTION
CI-00010
SCALE 1 : 1000

E	ISSUED FOR PRELIMINARY DESIGN APPROVAL	LS	GM	09.05.25
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C	UPDATED FINAL PRELIMINARY DESIGN	LS	GM	10.04.24
B	FINAL PRELIMINARY DESIGN	LS	GM	23.11.23
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Project	COORANBONG STOCKPILE EXTENSION
Status	PRELIMINARY

Drawing Title
STOCKPILE SECTIONS

SHEET 4 OF 4

Drawing No.
12609381-GHD-00-00-DRG-CI-00083

Size
A3

Rev
E