

WASH PLANT AREA	
73	GENERAL WASTE
74	ELECTRICAL POLE
75	ELECTRICAL SUBSTATION
76	CULVERT

WASH PLANT AREA	
1	SUBSTATION
2	CONTAINER
3	CONTAINER
4	CONTAINER
5	CONTAINER
6	CONTAINER
7	CONTAINER
8	CONTAINER
9	CONTAINER
10	CONTAINER
11	CONTAINER
12	CONTAINER
13	CONTAINER
14	CONTAINER
15	HARD PARK
16	LIQO TANK
17	WORKSHOP AND GAS STORAGE
18	CONTAINER
19	BUILDING
20	ESKOM SUBSTATION
21	CHANGE HOUSE
22	OFFICE
23	OFFICE
24	WALK WAY
25	OFFICE
26	CONTAINERS
27	OFFICE
28	DIESEL BAY
29	OLD PREFABRICATED BUILDING
30	LOPFELSTEIN RETAINING WALL
31	BRICK WALL
32	BRICK WALL
33	WALK WAY
34	SEPTIC TANK
35	FOUNDATION
36	TEA ROOM
37	VALVE CHAMBER
38	PRIMARY CRUSHER
39	TRANSFER CONVEYOR
40	SECONDARY CRUSHER
41	TRANSFER CONVEYOR
42	TRANSFER CONVEYOR
43	SCREENS
44	PROCESS WATER DAM
45	TRANSFER CONVEYOR
46	TRANSFER CONVEYOR
47	THICKNER
48	LOADING BIN
49	TRANSFER CONVEYOR
50	WASH PLANT
51	TRANSFER CONVEYOR
52	WASH PLANT
53	PLANT SUBSTATION
54	TRANSFER CONVEYOR
55	TRANSFER CONVEYOR
56	LOADING BIN
57	CONCRETE SLAB
58	TRANSFER CONVEYOR
59	LOADING BIN
60	PROCESS TANK
61	TRANSFER CONVEYOR
62	FILTER PRESS BUILDING
63	TRANSFER CONVEYOR
64	LOPFELSTEIN RETAINING WALL
65	MOBILE CRUSHER
66	TRANSFER CONVEYOR
67	PORTAL CULVERTS
68	LOPFELSTEIN RETAINING WALL
69	MOBILE PLANT
70	CONCRETE SLAB
71	SILT TRAPS
72	FENCING



REVISION	ISSUED FOR REVIEW	DATE	APPROVED	DESIGN	DESIGN CHECK	DESIGN	DESIGN CHECK	DATE	PROJECT MANAGER	SCALE	AS SHOWN	PROJECT NO	3599	ISSUE NO	001	ISSUE TYPE	REVISION	B599-CC-002 00
00	ISSUED FOR REVIEW	MAR 2021	AVDM	AVDM	AVDM	MVDW	MVDW		JLW	AS SHOWN	A1	3599	001					
<p>CLIENT: Tliverlei office park Building 98 unit 9/10 Silverlakes rd Hazeldean Pretoria http://www.beal.co.za</p> <p>BEAL <small>ENGINEERING CONSULTANTS AND PROJECT MANAGERS</small></p> <p>BEAL CONSULTING ENGINEERS & PROJECT MANAGEMENT (PTY) LTD PRETORIA OFFICE PROJECT MANAGER</p> <p>UNAUTHORISED USE OR REPRODUCTION OF THIS PLAN EITHER WHOLE OR IN PART WITHOUT THE WRITTEN PERMISSION INFRINGES COPYRIGHT. © BEAL CONSULTING ENGINEERS AND PROJECT MANAGEMENT.</p>																		
<p>PROJECT: ELANDSPONTEIN COLLIERY SCHEDULED & UNSCHEDULED CLOSURE COSTING DRAWING TITLE: AREA 1 - WASH PLANT AREA NUMBERING PLAN</p> <p>ANKER COAL (PTY) LTD</p>																		

ROM AND STOCKPILE AREA	
1	OFFICE
2	CONTAINER
3	BUILDING
4	BUILDING
5	SEPTIC TANK
6	WEIGHBRIDGE
7	BUILDING
8	WEIGHBRIDGE BUILDING
9	WEIGHBRIDGE
10	BUILDING
11	MOBILE CRUSHER
12	MOBILE CRUSHER
13	CRUSHING AND SCREENING
14	MOBILE CRUSHER
15	SECURITY OFFICE
16	LOFFELSTEIN RETAINING WALL
17	OLD BUILDING
18	CONTAINER
19	CONTAINER
20	CONTAINER
21	HOPPER
22	MOBILE CRUSHER
23	MOBILE CRUSHER
24	TRANSFER CONVEYOR
25	LIGHT MAST
26	ELECTRICAL POLE



REVISION	DESCRIPTION	DATE	APPROVED	DESIGN CHECK	DESIGN	3D/AW CHECK	DRAWN	ISSUED FOR REVIEW
00	ISSUED FOR REVIEW	MAR 2021	AVDM	AVDM	MVDW	MVDW	LF	

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<p>SCALE: AS SHOWN</p>	<p>PROJECT MANAGER: JLW</p>	<p>PROJECT NO: 3599</p>	<p>REVISION: B599-CC-005 00</p>

<p>BEAL CONSULTING ENGINEERS & PROJECT MANAGEMENT</p>	<p>PROJECT MANAGER: JLW</p>	<p>PROJECT NO: 3599</p>	<p>REVISION: B599-CC-005 00</p>
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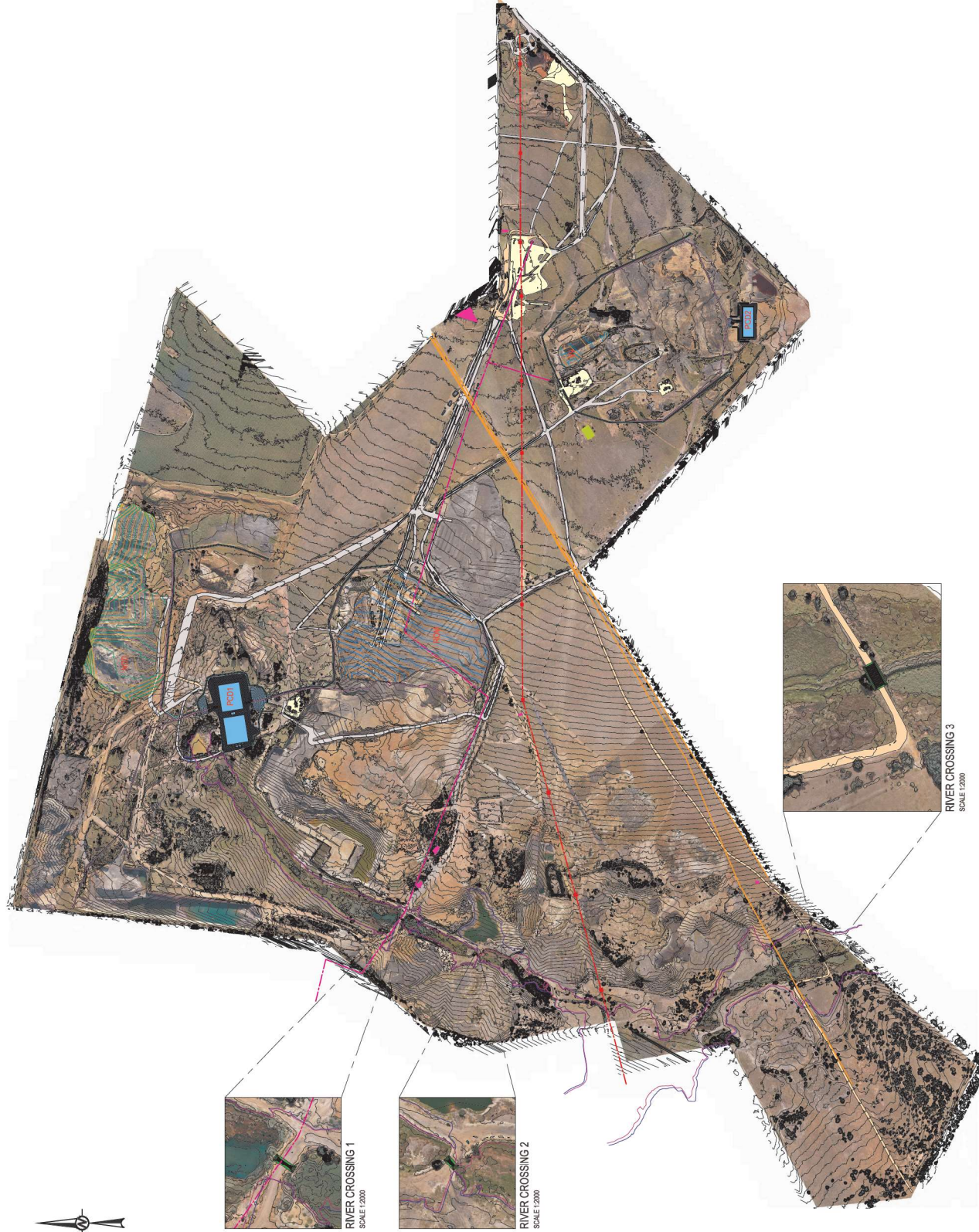
GENERAL PLANT AREA	
1	GOOSENECK
2	GOOSENECK
3	BUILDING
4	SUBSTATION
5	PUMP STATION
6	BRAKE TEST RAMP
7	CONTAINER
8	ROOF AND TABLE
9	CONTAINER
10	CONTAINER
11	ROOF
12	TAR SLAB
13	FENCING
14	OLD WEIGHBRIDGE
15	OLD WEIGHBRIDGE
16	OLD WEIGHBRIDGE
17	OLD WEIGHBRIDGE
18	GOOSENECK
19	GOOSENECK
20	PICNIC SHED



REVISION	ISSUED FOR REVIEW	DATE	APPROVED	DESIGN CHECK	DESIGN	3RD CHECK	DRAWN	DESCRIPTION
00	ISSUED FOR REVIEW	MAR 2021	AVDM	AVDM	MVDW	MVDW	LF	

CLIENT	ANKER COAL (PTY) LTD		
PROJECT	ELANDSPONTEIN COLLIERY SCHEDULED & UNSCHEDULED CLOSURE COSTING		
DRAWING TITLE	AREA 5 - GENERAL PLANT AREA NUMBERING PLAN		
PROJECT NO	3599	DWG NO	001
PROJECT MANAGER	JLW	SCALE	AS SHOWN
PROJECT BROWSER	AS SHOWN	SHEET SIZE	A1
CLIENT ADDRESS	Tigervallei office park Building 98 unit 9/10 Silverlakes rd Hazeldean Pretoria http://www.beal.co.za		
PROJECT MANAGER	BEAL CONSULTING ENGINEERS & PROJECT MANAGEMENT (PTY) LTD PRETORIA OFFICE http://www.beal.co.za		
PROJECT MANAGER	JLW		

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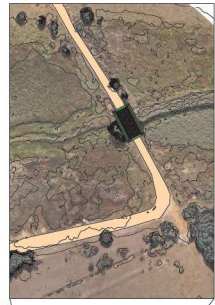
- VOIDS
- ROM
- NORTHERN DISCARD DUMP
- POLLUTION CONTROL DAMS
- BERRMS
- CHANNELS
- SILT TRAPS
- RIVER CULVERT CROSSINGS
- HAIL ROADS
- ACCESS ROADS
- LAYDOWN AREAS
- RESOLVE BORNEOLE
- GRAVES
- 1:50 YEAR FLOOD
- 1:100 YEAR FLOOD
- 400kVA ELECTRICAL LINES
- 220kVA ELECTRICAL LINES
- GAS AND PETROL PIPE LINES



RIVER CROSSING 1
SCALE 1:2000



RIVER CROSSING 2
SCALE 1:2000



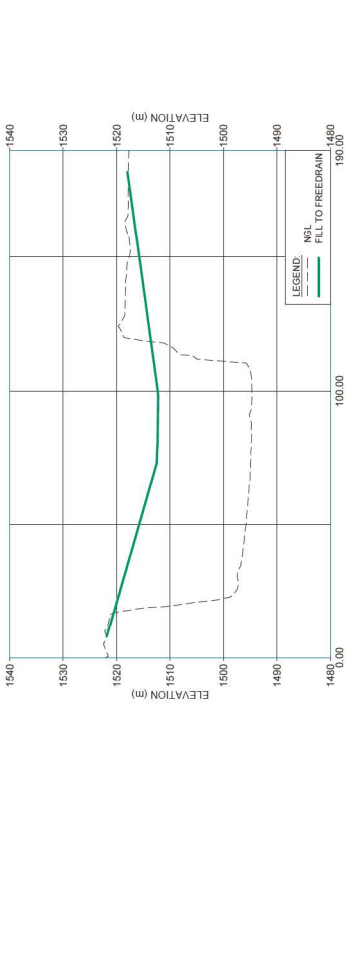
RIVER CROSSING 3
SCALE 1:2000

Volume Summary		
Name	Area m ²	Volume m ³
V9	14313.827	84256.808<4-FILL>
PCD1	50941.097	264824.490<4-CUL>
PCD2	11789.812	7301.605<4-CUL>
ROM	209341.903	65909.506<4-CUL>
Northern Discard Dump	169589.778	455975.041<4-FILL>

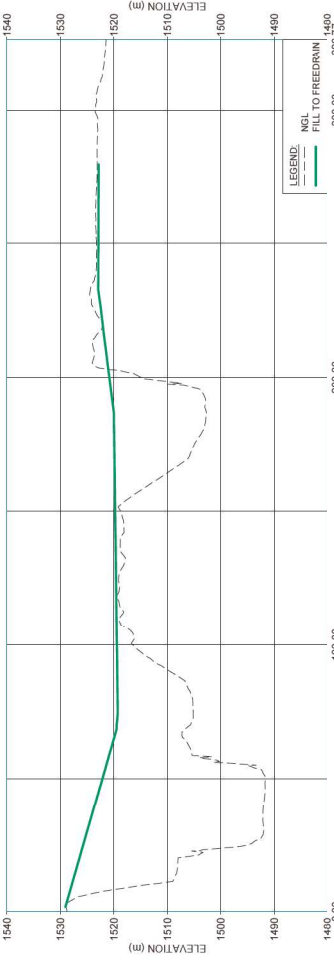
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<p>Tiger Valley office park Building 98 unit 9/10 Silverlakes rd Hazeldean Pretoria http://www.beal.co.za</p>																	
<p>ANKEER COAL (PTY) LTD ELANDSFONTEIN COLLIERY SCHEDULED CLOSURE COSTING GENERAL ARRANGEMENT</p>																	
<p>PROJECT: ELANDSFONTEIN COLLIERY SCHEDULED CLOSURE COSTING DRAWING TITLE: GENERAL ARRANGEMENT</p>																	
<p>CLIENT: ANKEER COAL (PTY) LTD</p>																	
<p>PROJECT No: B599</p>																	
<p>DOC. No: 001</p>																	
<p>SCALE: N.T.S</p>																	
<p>PROJECT MANAGER: JLW</p>																	
<p>PROJECT No: B599-SC-100</p>																	
<p>REVISION: 00</p>																	



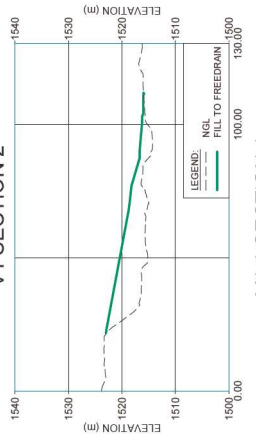
VOID 1 LAYOUT
SCALE 1:200



V1 SECTION 1



V1 SECTION 2

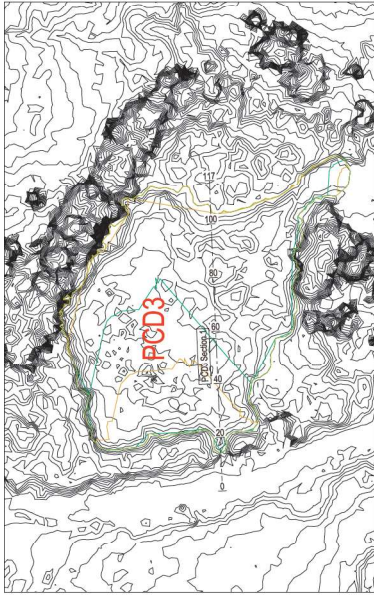


V1.1 SECTION 1

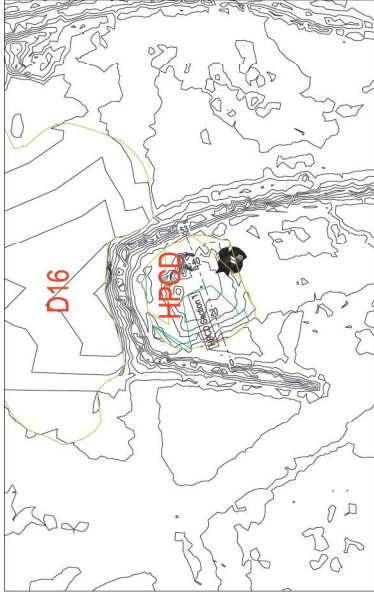
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---	NGL	300.000
—	FILL TO FREEDRAIN	326.777

Volume Summary		
Name	Area m ²	Volume m ³
V1	1778992.246	2286303.97561115
V1.1	6189.719	16200.39947115

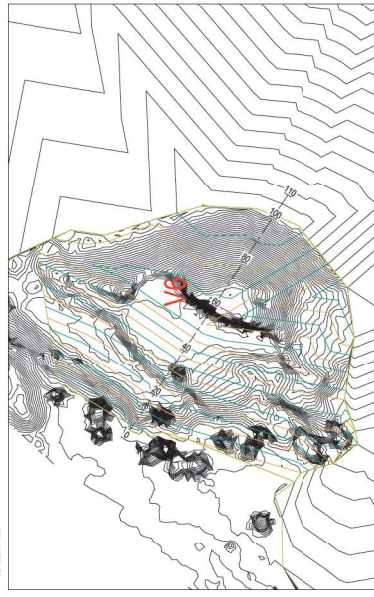
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<p>CLIENT: ANKER COAL (PTY) LTD</p> <p>PROJECT: ELANDSFONTEIN COLLIERY UNSCHEDULED CLOSURE COSTING</p> <p>DRAWING TITLE: VOID 1 AND 1.1 POST LANDFORM LAYOUT AND SECTIONS</p>												



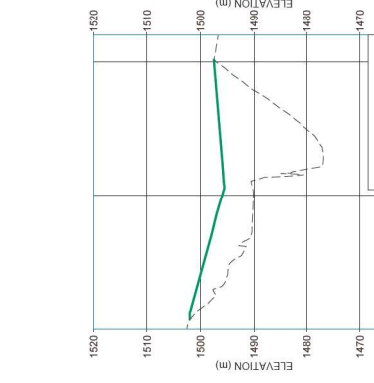
PCD3 LAYOUT
SCALE 1:1000



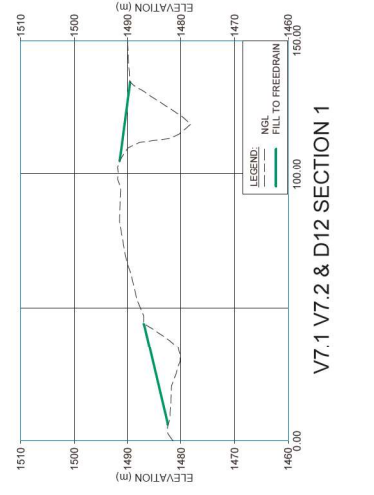
HISTORIC PCD LAYOUT
SCALE 1:1000



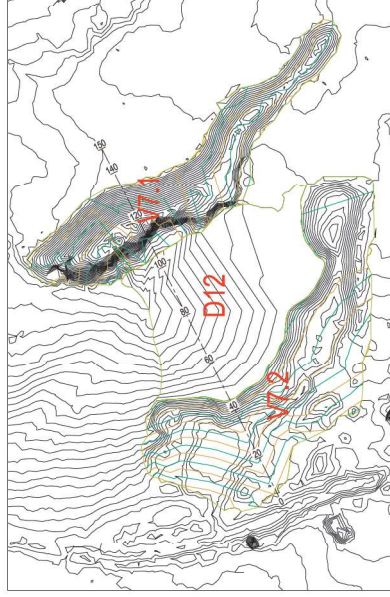
VOID 6 LAYOUT
SCALE 1:1000



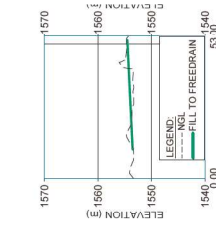
V6 SECTION 1



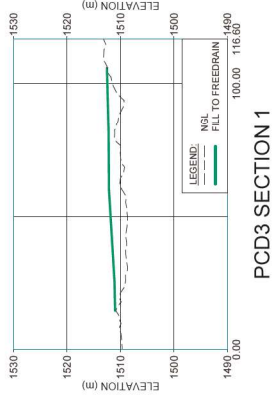
V7.1 V7.2 & D12 SECTION 1



VOID 7.1, D12 AND 7.2 LAYOUT
SCALE 1:1000



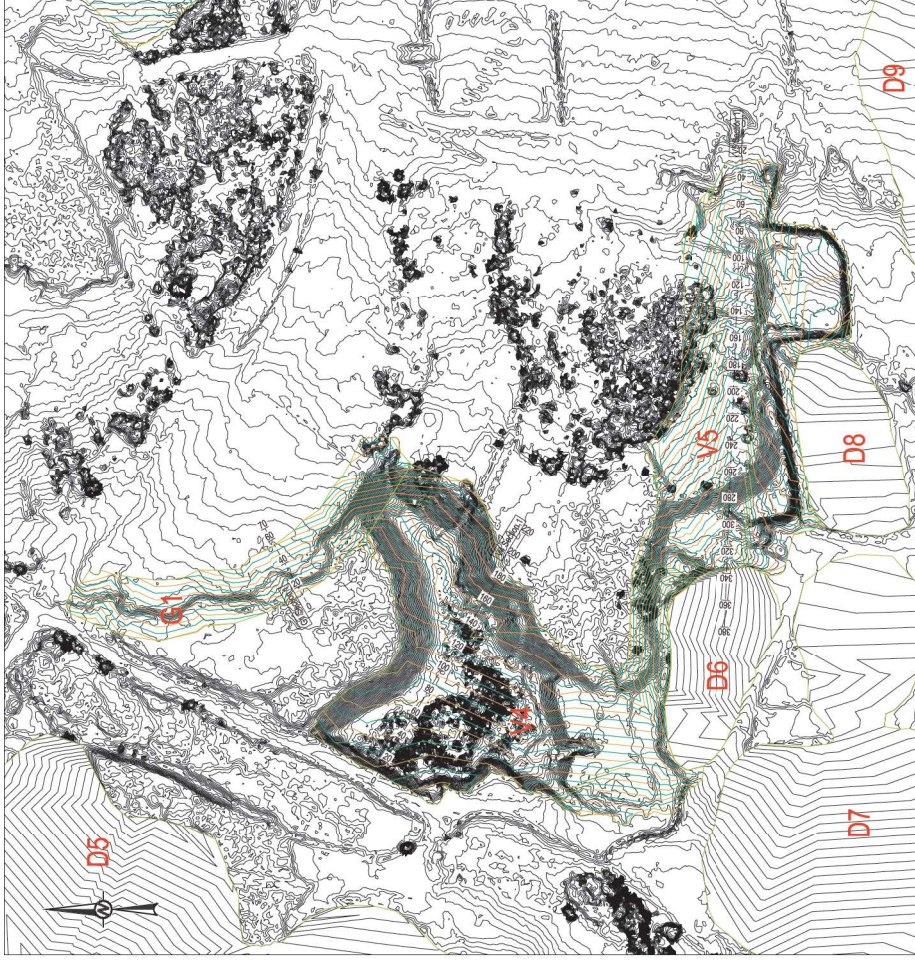
HPCD SECTION 1



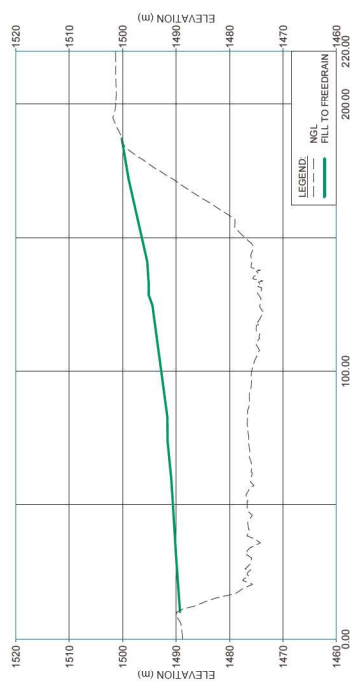
PCD3 SECTION 1

Volume Summary		
Name	Area m ²	Volume m ³
HISTORIC PCD	1337.108	174.354-CUD
PCD3	6944.858	15644.866-F-FILL
V6	9118.707	43432.550-F-FILL
V7.1	3101.666	13089.630-F-FILL
V7.2	4577.035	8752.486-F-FILL

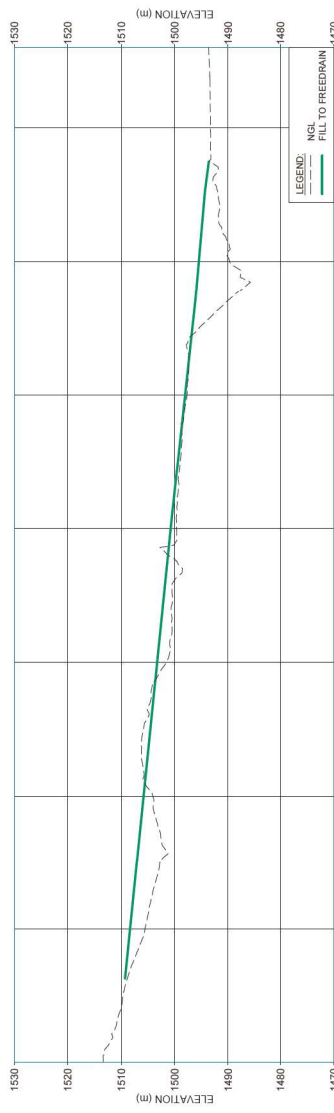
		Tiglerville office park Building 96 unit 9/10 Silverlakes rd Hazeldean Pretoria http://www.beal.co.za		PROJECT No: B599 SHEET No: A1 DATE: AS SHOWN	PROJECT No: B599-UC-201 SHEET No: 00
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ISSUED FOR REVIEW	J.L.W.	M.V.D.W.	M.V.D.W.	A.V.D.M.	FEB 2021
DRAWN	J.L.W.	DESIGN CHECK	M.V.D.W.	DESIGN CHECK	A.V.D.M.
AUTHORIZED	J.L.W.	AUTHORIZED	M.V.D.W.	AUTHORIZED	A.V.D.M.
DATE	FEB 2021	DATE	FEB 2021	DATE	FEB 2021
PROJECT No: B599	PROJECT No: B599	PROJECT No: B599	PROJECT No: B599	PROJECT No: B599	PROJECT No: B599
SHEET No: A1	SHEET No: A1	SHEET No: A1	SHEET No: A1	SHEET No: A1	SHEET No: A1
DRAWING TITLE	ELANDSFONTEIN COLLIERY UNSCHEDULED CLOSURE COSTING	DRAWING TITLE	VOID 6, 7.1, 7.2, PCD3 AND HISTORIC PCD POST LANDFORM LAYOUT AND SECTIONS	DRAWING TITLE	VOID 6, 7.1, 7.2, PCD3 AND HISTORIC PCD POST LANDFORM LAYOUT AND SECTIONS
CLIENT	ANKER COAL (PTY) LTD	CLIENT	ANKER COAL (PTY) LTD	CLIENT	ANKER COAL (PTY) LTD
PROJECT	ELANDSFONTEIN COLLIERY UNSCHEDULED CLOSURE COSTING	PROJECT	ELANDSFONTEIN COLLIERY UNSCHEDULED CLOSURE COSTING	PROJECT	ELANDSFONTEIN COLLIERY UNSCHEDULED CLOSURE COSTING



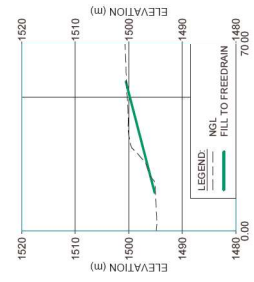
VOID 4, VOID 5 and GRADING 1 LAYOUT
SCALE 1:2000



V4 SECTION 1



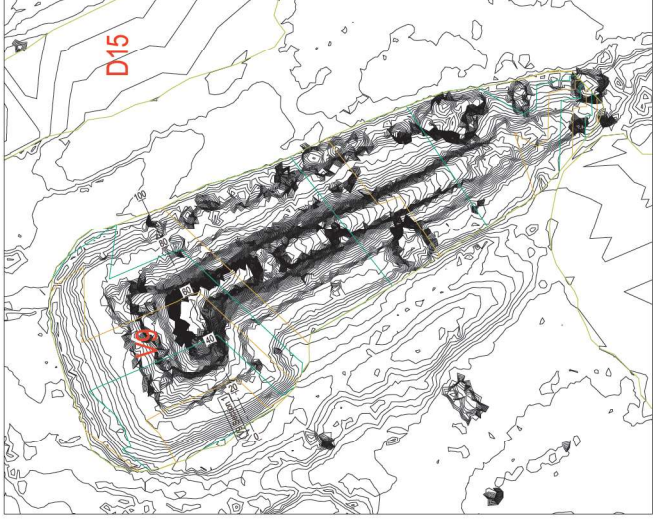
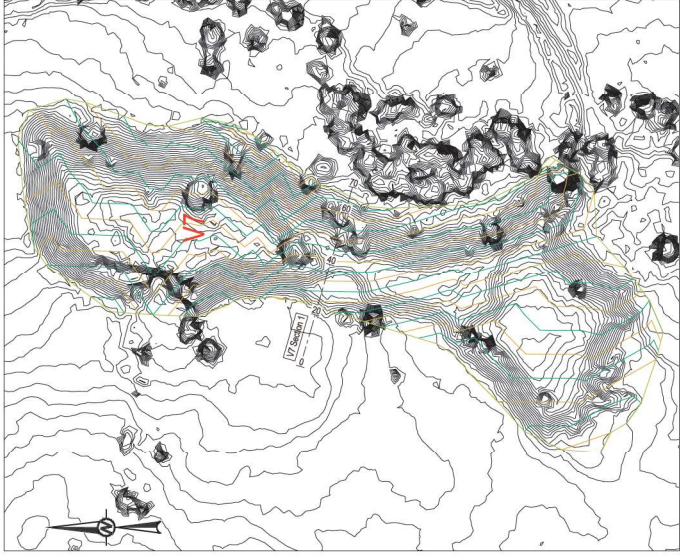
V5 SECTION 1



G1 SECTION 1

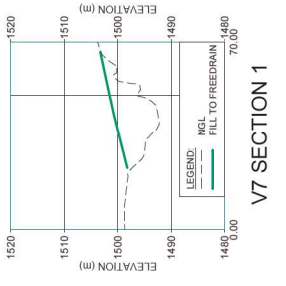
Volume Summary			
Name	Area m ²	Volume m ³	
G1	11879.372	3515.884	FILL
V4&5	71766.051	321412.895	FILL

REVISION	DESCRIPTION	DATE	DRAWN	DESIGN CHECK	DESIGN	ISSUED FOR REVIEW	PROJECT NO.	SHEET NO.	SCALE	AS SHOWN	PROJECT TITLE	CLEAR								
00	ISSUED FOR REVIEW	FEB 2021	JLW	MVDW	MVDW	MVDW	B599	A1	AS SHOWN		VOID 4, 5 GRADING 1 POST LANDFORM LAYOUT AND SECTIONS	ANKER COAL (PTY) LTD								
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<p>ELANDSFONTEIN COLLIERY UNSCHEDULED CLOSURE COSTING</p>																				
<p>Volume Summary</p> <table border="1"> <thead> <tr> <th>Name</th> <th>Area m²</th> <th>Volume m³</th> </tr> </thead> <tbody> <tr> <td>G1</td> <td>11879.372</td> <td>3515.884</td> </tr> <tr> <td>V4&5</td> <td>71766.051</td> <td>321412.895</td> </tr> </tbody> </table>												Name	Area m ²	Volume m ³	G1	11879.372	3515.884	V4&5	71766.051	321412.895
Name	Area m ²	Volume m ³																		
G1	11879.372	3515.884																		
V4&5	71766.051	321412.895																		

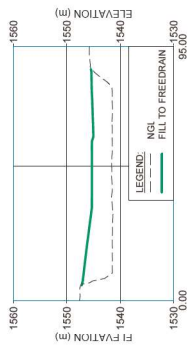


VOID 9 LAYOUT
SCALE: 1:1000

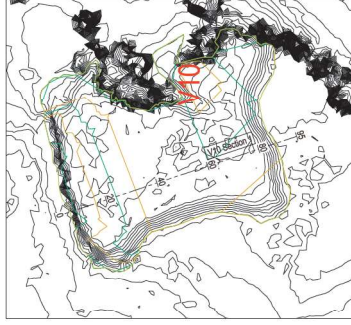
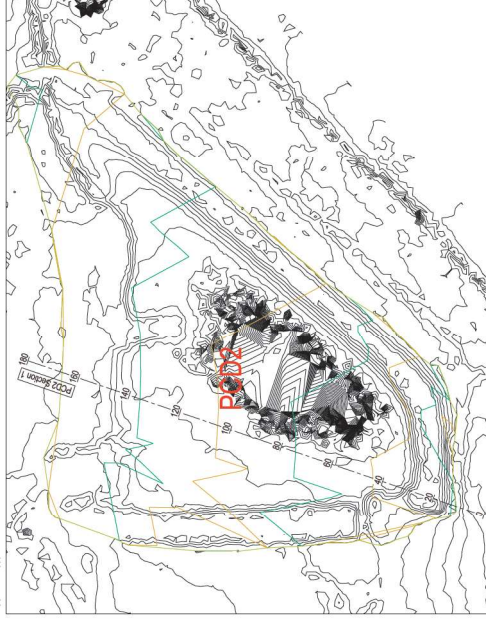
VOID 7 LAYOUT
SCALE: 1:1000



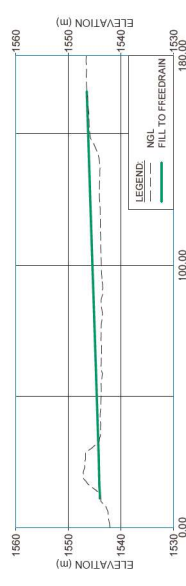
V9 SECTION 1



V10 SECTION 1



VOID 10 LAYOUT
SCALE: 1:1000

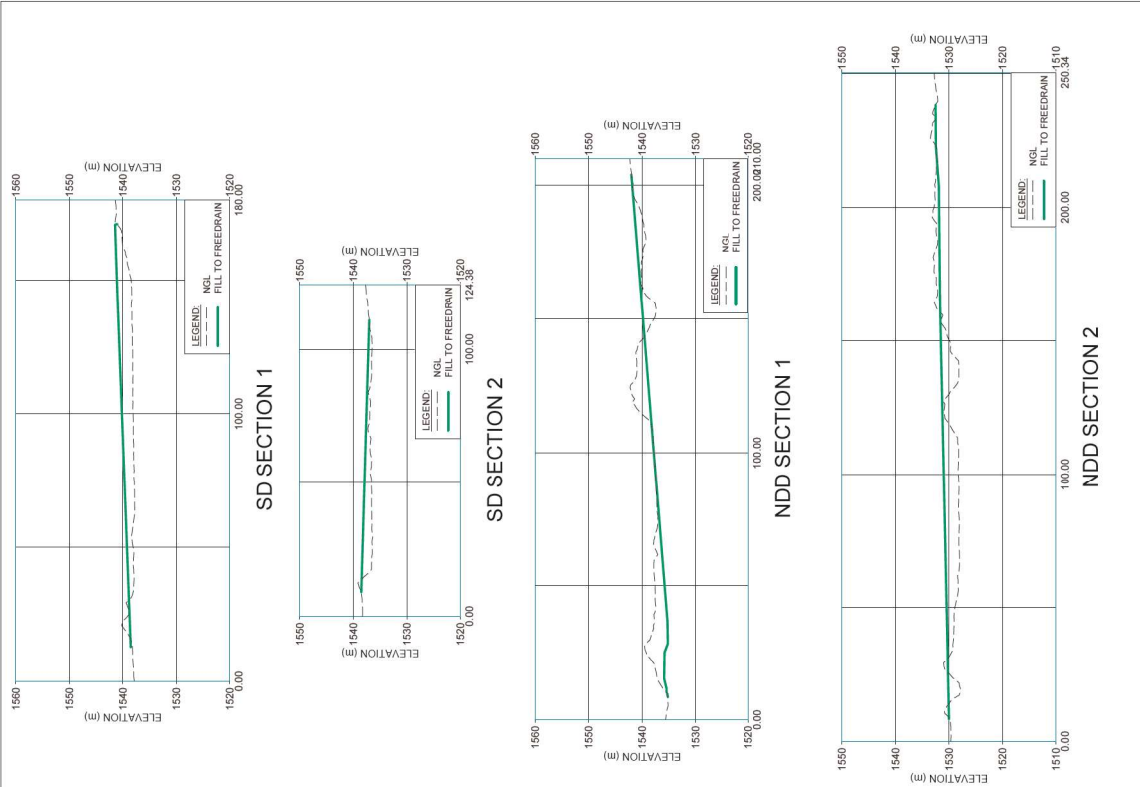
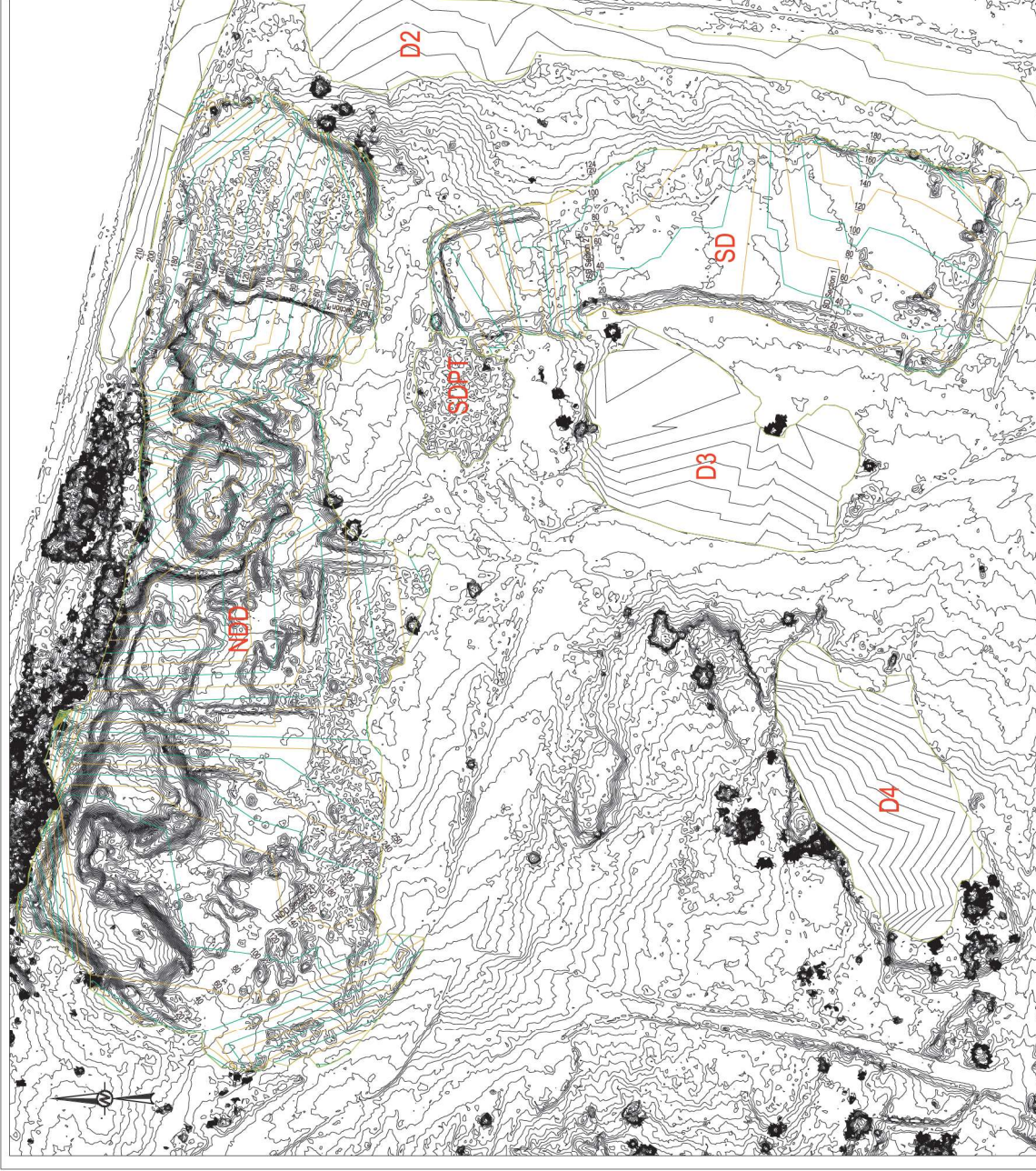


PCD2 SECTION 1

Volume Summary			
Name	Area m ²	Volume m ³	
PCD2	18683.562	10403.440	$FILL$
V7	15517.611	96411.148	$FILL$
V9	14813.827	84706.808	$FILL$
V10	5145.601	15706.361	$FILL$

PCD 2 LAYOUT
SCALE: 1:1000

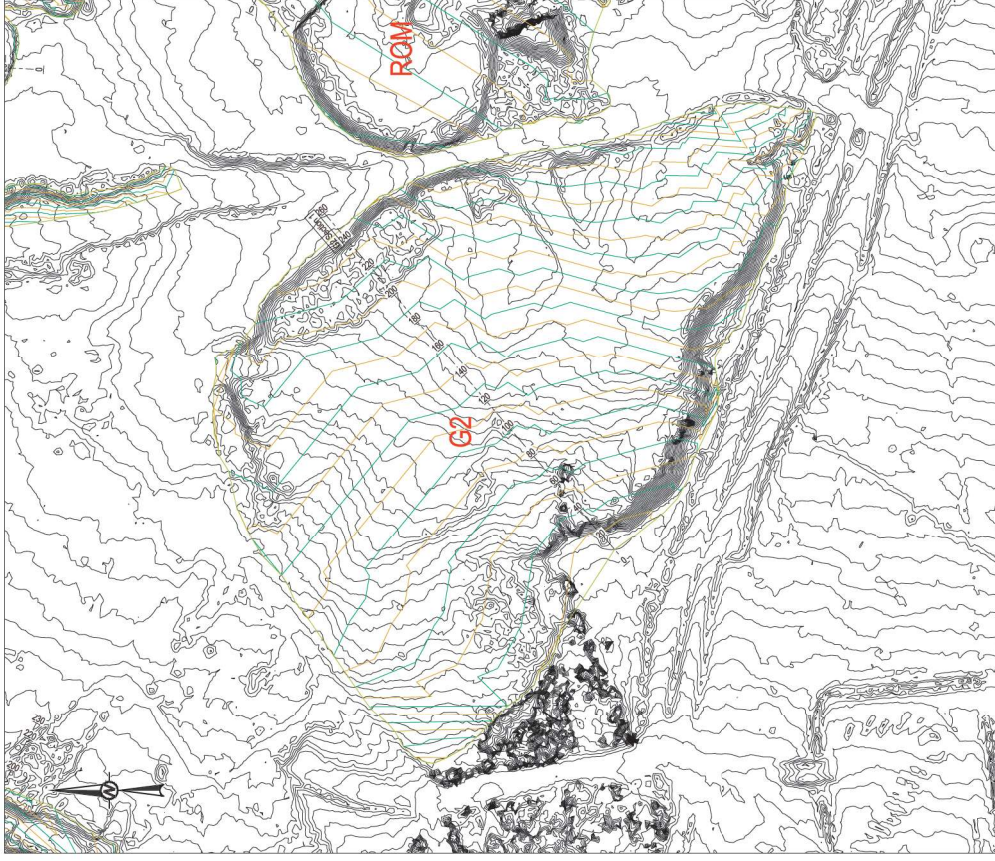
REVISION	DESCRIPTION	DRAWN	MVDW	DESIGN CHECK	DESIGN	MVDW	DESIGN CHECK	DESIGN	AJW	PROJECT NO.	DWG. NO.	DOC. TYPE	REVISION
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<p>BEAL CONSULTING ENGINEERS & PROJECT MANAGEMENT (PTY) LTD PRETORIA OFFICE 154, PROSPECTOR DRIVE PRETORIA, SOUTH AFRICA</p> <p>BEAL CONSULTING ENGINEERS & PROJECT MANAGEMENT (PTY) LTD PRETORIA OFFICE 154, PROSPECTOR DRIVE PRETORIA, SOUTH AFRICA</p> <p>Project: Tlgierville office park Building 98 unit 8/10 Silverlakes rd Hazeldean Pretoria http://www.beal.co.za</p>													
<p>BEAL CONSULTING ENGINEERS & PROJECT MANAGEMENT (PTY) LTD PRETORIA OFFICE 154, PROSPECTOR DRIVE PRETORIA, SOUTH AFRICA</p>													
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<p>CLIENT: ANKER COAL (PTY) LTD PROJECT: ELANDSFONTEIN COLLIERY UNSCHEDULED CLOSURE COSTING DRAWING TITLE: VOID 7, 9, 10 AND PCD 2 POST LANDFORM LAYOUT AND SECTIONS</p>													



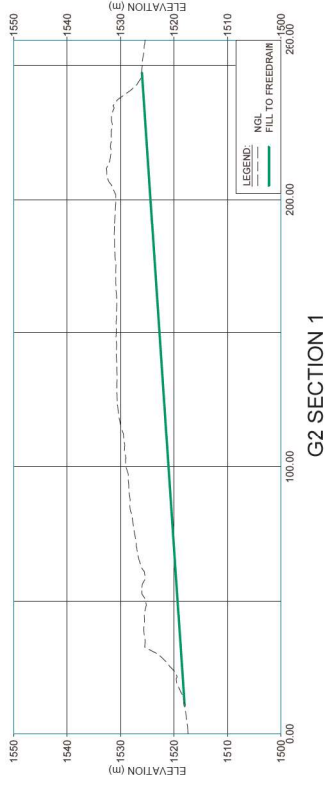
SLURRY DAM AND NORTHERN DISCARD DUMP LAYOUT
SCALE 1:2,000

Volume Summary		
Name	Area m ²	Volume m ³
Northern Discard	166588.778	455975.041-FILL>
Slurry Dam	63697.254	48023.806-FILL>

REVISION	DESCRIPTION	DATE	ISSUED FOR REVIEW	DRAWN	MVDW	MVDW	MVDW	MVDW	DATE	PROJECT MANAGER	PROJECT NUMBER	SHEET SIZE	PROJECT No	DOC No	DOC TYPE	DRAWN BY	REVISION
00	ISSUED FOR REVIEW	FEB 2021	JLW	JLW	AJW	AJW	AJW	AJW	FEB 2021	BEAL CONSULTING ENGINEERS AND PROJECT MANAGEMENT (PTY) LTD PRETORIA OFFICE	JLW	A1	B589	001		B589-UC-205	00
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<p>BEAL CONSULTING ENGINEERS & PROJECT MANAGEMENT (PTY) LTD PRETORIA OFFICE</p>																	
<p>BEAL CONSULTING ENGINEERS & PROJECT MANAGEMENT (PTY) LTD PRETORIA OFFICE</p>																	
<p>Tiger Valley office park Building 98 unit 9/10 Silverdunes rd Hazeldean Pretoria http://www.beal.co.za</p>																	
<p>CLIENT: ANKER COAL (PTY) LTD PROJECT: ELANDSFONTEIN COLLIERY UNSCHEDULED CLOSURE COSTING DRAWING TITLE: SLURRY DAM AND NORTHERN DISCARD DUMP POST LANDFORM LAYOUT AND SECTIONS</p>																	



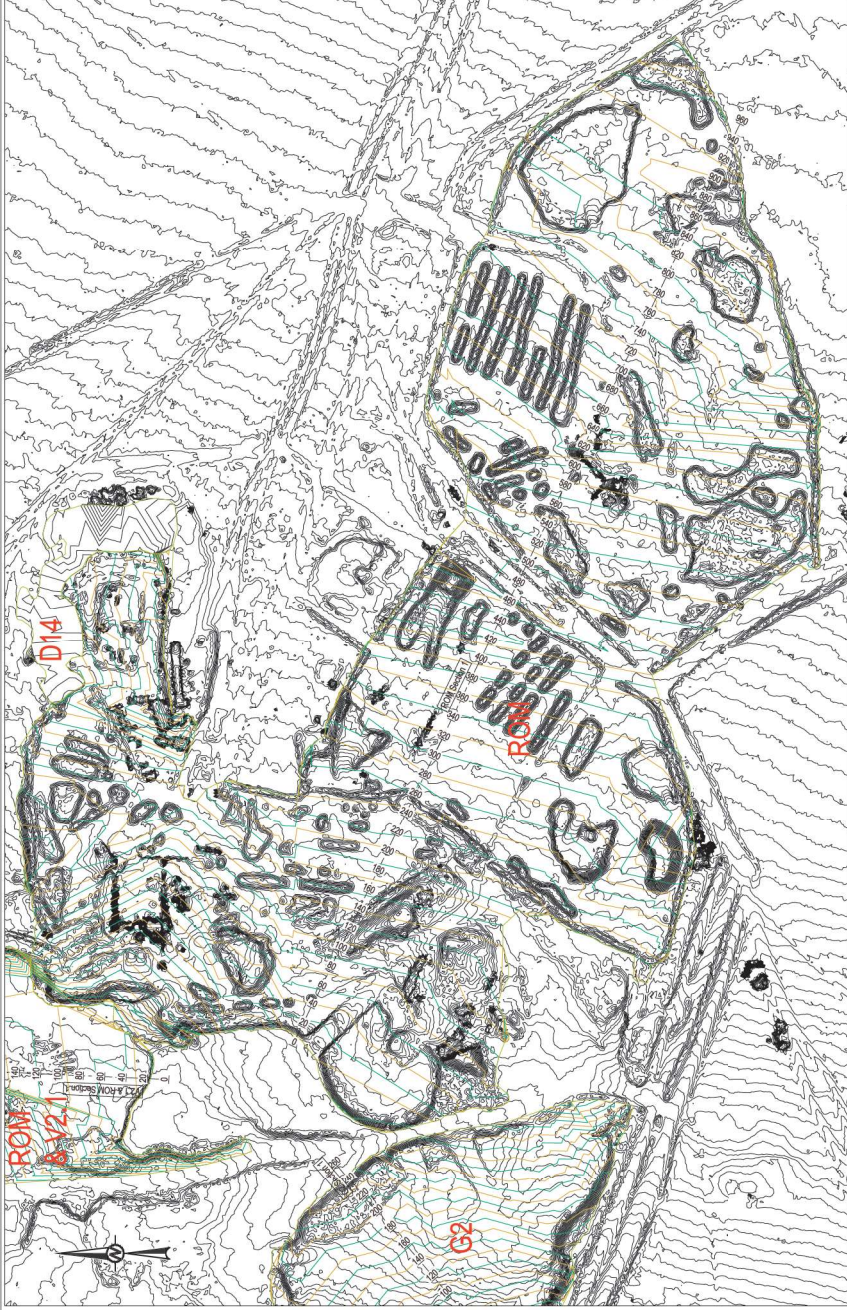
GRADING 2 LAYOUT
SCALE 1:100



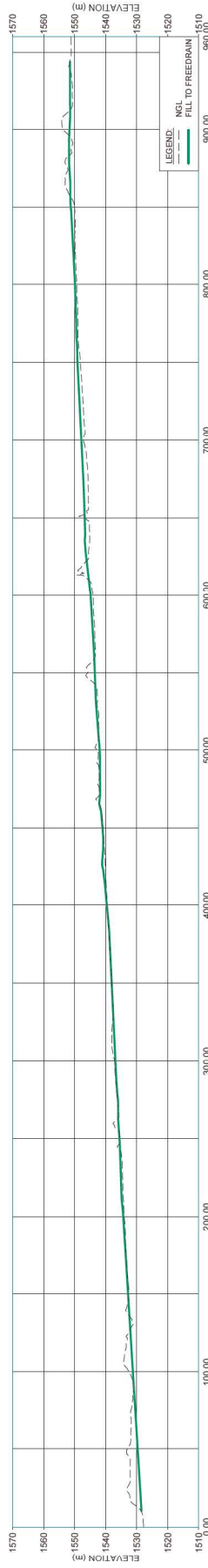
G2 SECTION 1

Volume Summary		
Name	Area (m ²)	Volumes (m ³)
G2		342336.379-CUT

REVISION	DESCRIPTION	DATE	ISSUED FOR REVIEW	JLW	MVDW	MVDW	MVDW	JLW	AS SHOWN	AS SHOWN	PROJECT No	DOC No	DOC TYPE	DRAWN No	REVISION
00	ISSUED FOR REVIEW	FEB 2021	AVDM	AVDM	AVDM	MVDW	MVDW	JLW	AS SHOWN	AS SHOWN	B589	001		B589-UC-206	00
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<p>PROJECT: ANKER COAL (PTY) LTD DRAWING TITLE: ELANDSFONTEIN COLLIERY UNSCHEDULED CLOSURE COSTING DRAWING No: B589</p>															
<p>GRADING 2 POST LANDFORM LAYOUT AND SECTIONS</p>															



ROM LAYOUT
SCALE: 1:200



ROM SECTION 1

Volume Summary		
Name	Area (m ²)	Volumes (m ³)
ROM	96225.022	290345.637^{CUT}

00 ISSUED FOR REVIEW		JLW	MVDW	MVDW	MVDW	AVDM	AVDM	AVDM	DATE	FEB 2021	BEAL CONSULTING ENGINEERS AND PROJECT MANAGEMENT.		JLW		AS SHOWN	A1	B589	001	B589-UC-207_00
REVISION		DRAWN	DRAWN CHECK	DESIGN	DESIGN CHECK	AUTHORISED	DATE	INFORMATION CONTAINED ON THIS PLAN IS THE PROPERTY OF BEAL CONSULTING ENGINEERS & PROJECT MANAGEMENT. UNAUTHORISED USE OR REPRODUCTION OF THIS PLAN EITHER WHOLLY OR IN PART WITHOUT THE WRITTEN PERMISSION INFRINGES COPYRIGHT.		BEAL CONSULTING ENGINEERS & PROJECT MANAGEMENT (PTY) LTD PRETORIA OFFICE		BEAL CONSULTING ENGINEERS & PROJECT MANAGEMENT (PTY) LTD PRETORIA OFFICE		Tiger Valley office park Building 98 unit 9/10 Silverdaks rd Hazeldean Pretoria http://www.beal.co.za		PROJECT No: B589		DRAWING TITLE: ROM POST LAND-FORM LAYOUT AND SECTIONS	
										CLERK: ANKER COAL (PTY) LTD		PROJECT: ELANDSFONTEIN COLLIERY UNSCHEDULED CLOSURE COSTING							



LEGEND:

- POST LANDFORM STORM WATER FLOW DIRECTION
- 1:50 YEAR FLOOD
- 1:100 YEAR FLOOD



REVISION	00	ISSUED FOR REVIEW	JLW	MVDW	MVDW	AVIDM	AVIDM	AVIDM	FEB 2021	BEAL CONSULTING ENGINEERS AND PROJECT MANAGEMENT	<p>INFORMATION CONTAINED ON THIS PLAN IS THE PROPERTY OF BEAL CONSULTING ENGINEERS & PROJECT MANAGEMENT.</p> <p>UNAUTHORIZED USE OR REPRODUCTION OF THIS PLAN EITHER WHOLLY OR IN PART WITHOUT THE WRITTEN PERMISSION INFRINGES COPYRIGHT.</p> <p>© BEAL CONSULTING ENGINEERS AND PROJECT MANAGEMENT</p>
DATE										<p>BEAL CONSULTING ENGINEERS AND PROJECT MANAGEMENT</p>	
DESCRIPTION										<p>BEAL CONSULTING ENGINEERS & PROJECT MANAGEMENT (PTY) LTD PRETORIA OFFICE</p>	
										<p>LEAD PROJECT/DRAWN: JLW PROJECT MANAGER: N.T.S</p>	
										<p>SCALE: N.T.S</p>	
										<p>PROJECT No: B599 SHEET SIZE: A1</p>	
										<p>Doc No: 001 Doc Type: 001</p>	
										<p>FORMED IN: B595-UC-208 00</p>	
										<p>CLIENT: ANKER COAL (PTY) LTD</p>	
										<p>PROJECT: ELANDSFONTEIN COLLIERY UNSCHEDULED CLOSURE COSTING</p>	
										<p>DRAWING TITLE: POST LANDFORM STORM WATER LAYOUT</p>	
										<p>Location: Tlovelle office park Building 96 unit 9/10 Silverdaks rd Hazeldean Pretoria http://www.beal.co.za</p>	