

3 - Balancing Pond Excavation

Movement 1

A - Volume

The first stage of material movement on the pond was the excavation to GCL layer. See below volume.

McCarthy Taylor Systems Ltd. LSS v10.02.03 / 717.30						
Jones Bros (Civil Engineering) Co. Ltd						
Page : 001 2025.04.28 10:13						
GCL DESIGN UPDATED - GCL DESIGN						
AREA AND VOLUME CALCULATION						
Volume between current survey : GCL DESIGN UPDATED - GCL DESIGN and other survey : OGL FROM CONT R2 - OGL FROM CONT R2						
Volumes by surface feature in the current survey :						
Surface	Description	Cut area (m²)	Cut volume (m³)	Fill area (m²)	Fill volume (m³)	Total area (m²)
None		3299.305	-5045.947	264.540	124.133	3563.845
		-----	-----	-----	-----	-----
Grand total :		3299.305	-5045.947	264.540	124.133	3563.845
		-----	-----	-----	-----	-----
Net volume (m³)						
						-4921.813
Note : "FILL" when the CURRENT survey is above the OTHER. All areas are plan areas.						
*** WARNING *** no volume determined for the following areas :						
Other survey outside current : 121871.981						

B - Drawing

S4 P1 C								ID		UM		RMSE	
REV		DESCRIPTION				DATE		DRW		CHK		APP	
Drawing Title:													
Material Movements													
Burroughs Project No.: 50468-00				Scale: 1:500				Original Paper Size: A1					
Drawing Number: 001													
Status:		Status Description:											
S4		FOR STAGE APPROVAL											
Revision:		Revision Description:											
P1		First Draft											
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Movement 2

A - Volume

From the 5000m3 excavated for the GCL layer, half of this material was placed back within the pond area to form the balancing pond. The other half was used as fill within the plateau. See volumes below.

Volume of material used to form the pond

McCarthy Taylor Systems Ltd. LSS v10.02.03 / 717.30						
Jones Bros (Civil Engineering) Co. Ltd						
Page : 001 2025.04.28 10:13						
GCL DESIGN UPDATED - GCL DESIGN						
AREA AND VOLUME CALCULATION						
Volume between current survey : GCL DESIGN UPDATED - GCL DESIGN and other survey : POND MODEL UPDATED - POND MODEL UPDATED						
Volumes by surface feature in the current survey :						
Surface	Description	Cut area (m²)	Cut volume (m³)	Fill area (m²)	Fill volume (m³)	Total area (m²)
None	(Undetermined :	3277.332	-2524.077	68.213	18.727	3345.545
						218.300
Grand total :	(Undetermined :	3277.332	-2524.077	68.213	18.727	3345.545
						218.300
Note : "FILL" when the CURRENT survey is above the OTHER. All areas are plan areas.						
*** WARNING *** no volume determined for the following areas :						
Current survey valid, outside other : 218.300						
Other survey outside current : 123.267						

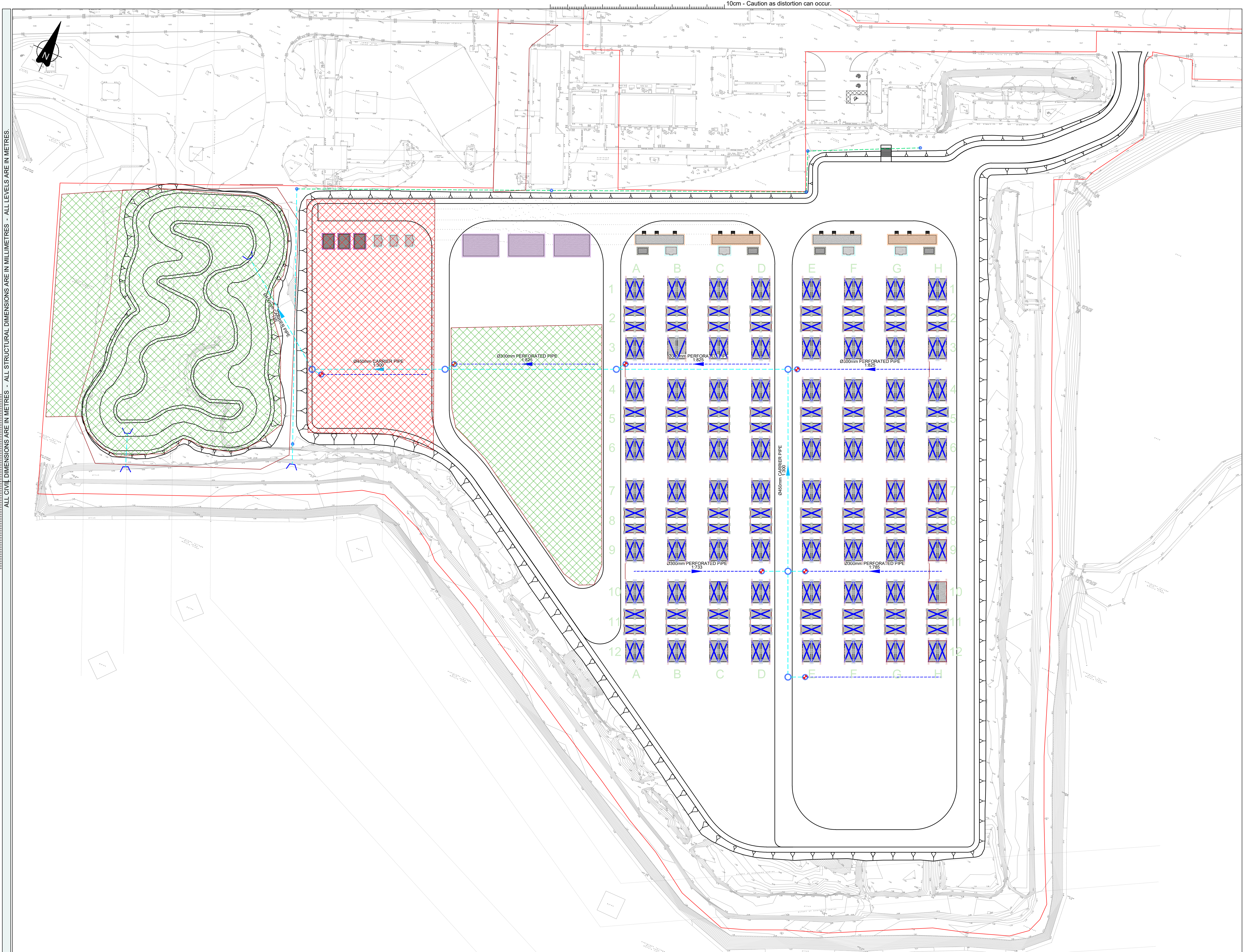
Volume of materail used as fill within the plateau ('site won' on table below)

	Volume Placed (M3)	Volume Remaining	Tonnage Delivered
Class 1A	NA	0	126237
Site Won	2580	N/A	N/A
Type 3	NA	0	32593
Type 1	NA	0	4878

B - Drawing

10 cm - Caution as distortion can occur.

ALL CIVIL DIMENSIONS ARE IN METRES - ALL STRUCTURAL DIMENSIONS ARE IN MILLIMETRES - ALL LEVELS ARE IN METRES.





Client: 

Project: **USKMOUTH ENERGY STORAGE PROJECT**

Material Moved

From - 

To - 

REV	DESCRIPTION	DATE	DRW	CHK	APP
1					

Material Movements

Burroughs Project No.: 50468-00 Scale: 1:500 Original Paper Size: A1

Drawing Number: 001

Status: S4 - FOR STAGE APPROVAL

Revision: P 1 - First Draft

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C - Testing results on site won material used as fill in plateau

Appendix A - Chemical
testing results

Appendix B - Grading
Results

Appendix C - On site SRD
test result

Imported Materials

1 - Imported Aggregate for Building Plateau

A - Volume

Class 1A - 54,648M3

Type 3 - 14,109M3

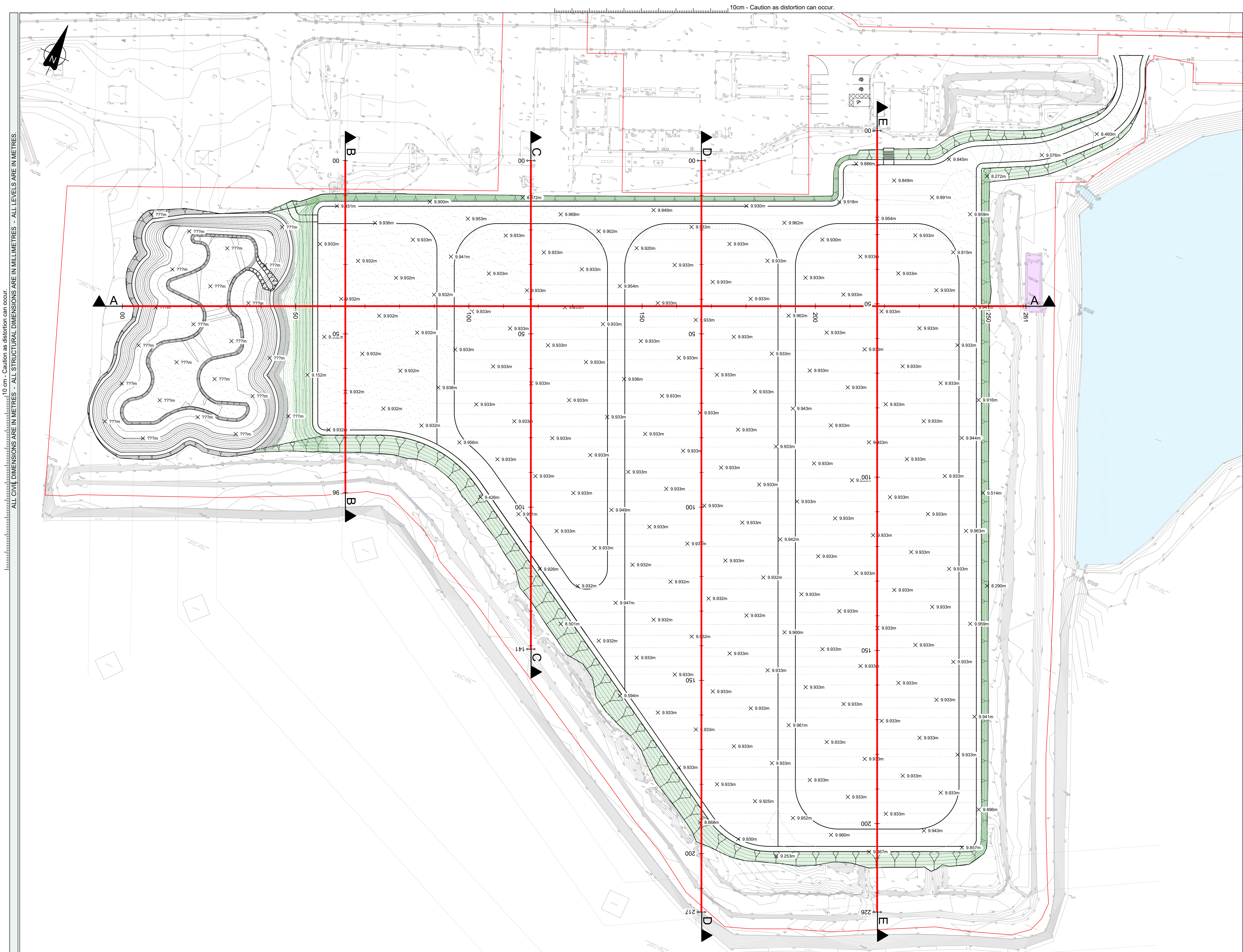
Type 1 - 2,111M3

(import tickets held by client (PEP))

See Appendix D -
Aggregate tracker

B - Drawings

10 cm - Caution as distortion can occur.
ALL CIVIL DIMENSIONS ARE IN METRES - ALL STRUCTURAL DIMENSIONS ARE IN MILLIMETRES - ALL LEVELS ARE IN METRES.



DRAWING NOTES:

- THIS DRAWING REPRESENTS THE PROPOSED FINISHED LEVELS AND INFILL BETWEEN ATTENUATION BASIN AND PLATEAU.
- FOR LONG-SECTIONS PLEASE REFER TO DRAWING: 50679-BUR-HGT-XX-DR-C-0610.

LEGEND:

SITE BOUNDARY

SAFETY HEALTH AND ENVIRONMENTAL INFORMATION

TO BE READ IN CONJUNCTION WITH DESIGNERS SUMMARY OF SIGNIFICANT HAZARDS AND RISKS AND HEALTH & SAFETY HAZARDS IDENTIFICATION CHECK LIST.

THE DESIGN TEAM HAVE HIGHLIGHTED ONLY WHAT MAY NOT BE OBVIOUS TO A COMPETENT CONTRACTOR, THEY ASSIST WITH RISK REDUCTION ONLY AND ARE NOT NECESSARILY COMPREHENSIVE. EVERYDAY OR LOW RISK HAZARDS HAVE NOT BEEN IDENTIFIED.

IT IS ASSUMED THAT ALL WORKS WILL BE CARRIED OUT BY A COMPETENT CONTRACTOR WORKING TO AN APPROVED METHOD STATEMENT. SHOULD ANY ADDITIONAL HAZARDS BE IDENTIFIED, THE CONTRACTOR SHALL NOTIFY THE RELEVANT SCHEME TEAM MEMBERS.

IN ADDITION TO THE RISKS ASSOCIATED WITH THE TYPES OF WORKS DETAILED ON THE DRAWING, NOTE THE FOLLOWING SIGNIFICANT RISKS AND INFORMATION.

- HEALTH AND SAFETY RISK, REFER TO ACCOMPANYING DOCUMENTATION
- CONSTRUCTION/BUILDABILITY RISK, REFER TO ACCOMPANYING DOCUMENTATION
- ENVIRONMENTAL RISK, REFER TO ACCOMPANYING DOCUMENTATION

A1-C3.0 AMENDED ENTRANCE JUNCTION LAYOUT	11/04/24	10	1	SL	DDH
A1-C2.0 AMENDED PLATEAU LAYOUT	15/03/24	10	1	SL	DDH
A1-C1.0 ISSUED FOR CONSTRUCTION	19/02/24	10	1	SL	DDH
REV	DATE	DRW	CHK	APP	

Drawing Title: **SERIES 600 - EARTHWORKS
STAGE 3: FINISHED LEVELS
GENERAL ARRANGEMENT**

Burroughs Project No.: 50679-00 Scale: 1:500 Original Paper Size: A1

Drawing Number: 50679-BUR-HGT-XX-DR-C-0604

Status: Status Description: **FOR CONSTRUCTION**

Revision: Revision Description: **AMENDED ENTRANCE JUNCTION LAYOUT**

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