



- Notes:**
- This assessment is based on the layout drawing: Leek Road BESS Site & 400kV Substation Site Layout Plan, drawing number: LEEK-D-PL-INT-005.
 - It has been assumed that the maximum gradient for the main spine road and access is 1:15. The maximum gradient which has been achieved is 1:21 – as shown. However, due to the existing topography along the emergency access to the north, 1:15 has been implemented. This still results in approximately 3.5m cut to formation level.
 - For the main storage areas, maximum longfall and crossfall gradients of 1:30 have been implemented.
 - As indicated, the existing topography does not cover the full extent of the emergency access.
 - All proposed earthworks shown are modelled as 1:3 slopes, unless otherwise identified.
 - The formation surface has been determined using the following depth parameters:
 - 0.9m depth under roads and main storage areas
 - 0.6m under building areas
 - 0.3m under verges and earthworks
 - The formation surface has been compared against the existing ground levels, minus 0.3m for assumed topsoil strip.
 - The results of the formation surface vs. existing ground minus 0.3m is as follows:
 - Cut: 22,559m³
 - Fill: 19,499m³
 - Net Fill: 3,060m³ *
- * A bulking factor has not been applied to the volumes stated above

Key:

261.250 — Major contour

260.750 — Minor contour

1 in 27 — Road gradients

SURFACE LEVEL DATA		
MINIMUM LEVEL	MAXIMUM LEVEL	COLOUR
-4.126	-3.000	
-3.000	-2.000	
-2.000	-1.000	
-1.000	0.000	
0.000	1.000	
1.000	2.000	
2.000	2.989	

P03	23.07.25	REDUCED VERGES TO 1m	LB	-	-
P02	18.06.25	AROUND STORAGE AREAS	LB	-	-
P01	29.05.25	UPDATED TO ALLOW 1:30 MAX GRDIENTS	RH	LB	LB
		FIRST ISSUE			
Rev	Date	Details	By	Chkd	Appd

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CLIENT:	MASDAR ARLINGTON		
PROJECT:	LEEK ROAD BESS STOKE-ON-TRENT		
TITLE:	CUT AND FILL ASSESSMENT		
STATUS:	For Information	SCALE @ A1:	1:1000
DRAWING NO:	250402-RAP-XX-XX-DR-C-0601	REVISION:	P03