



;) Crown Copyright 2021. All rights reserved. Licence number 100022432

Ordnance Survey (c) Crown Copyright 2021. All rights reserved. Licence number 100022432

**KEY**

- Phase 1 Road & Sewers & Build route 5-8
- Phase 2 Road & Sewers & Build route 1-4

CUT Depth Bands			
Band 1	-0.00	-	-0.10
Band 2	-0.10	-	-0.20
Band 3	-0.20	-	-0.30
Band 4	-0.30	-	-0.40
Band 5	-0.40	-	-0.50
Band 6	-0.50	-	-0.75
Band 7	-0.75	-	-1.00
Band 8	-1.00	-	-1.50
Band 9	-1.50	-	-2.00
Band 10	-2.00	-	

  

FILL Depth Bands			
Band 1	0.00	-	0.10
Band 2	0.10	-	0.20
Band 3	0.20	-	0.30
Band 4	0.30	-	0.40
Band 5	0.40	-	0.50
Band 6	0.50	-	0.75
Band 7	0.75	-	1.00
Band 8	1.00	-	1.50
Band 9	1.50	-	2.00
Band 10	2.00	-	

Cut and fill analysis is based upon two ground profiles:-

Existing ground profile based upon the following criteria:-

Topographical survey - 300mm topsoil strip

Proposed formation profile based upon the following criteria:-

Finished floor levels - 450mm

Road levels - 500mm

Drive levels - 300mm

Garden levels - 150mm

**TOPSOIL**

Approximate topsoil strip volume -  $9,410m^2 \times 0.3 = 2,823m^3$

Build routes 1-4 re-use of topsoil (150mm thick) -  $2,541m^2 \times 0.15 = 381m^3$

Build routes 5-8 re-use of topsoil (150mm thick) -  $1,185m^2 \times 0.15 = 178m^3$

Approximate excess topsoil - 2,264m<sup>3</sup>

**FOUNDATIONS**

Build routes 1-4 17 plots@25m<sup>3</sup>/plot =425m<sup>3</sup>

Build routes 5-8 10 plots@25m<sup>3</sup>/plot =250m<sup>3</sup>

Total foundation spoil - 675m<sup>3</sup>

**PLOT DRAINAGE**

Build routes 1-4 17 plots@10m<sup>3</sup>/plot =170m<sup>3</sup>

Build routes 5-8 10 plots@10m<sup>3</sup>/plot =100m<sup>3</sup>

Total plot drainage spoil - 270m<sup>3</sup>

**ADOPTABLE DRAINAGE**

Phase 1 works =64m<sup>3</sup>

Phase 2 works =720m<sup>3</sup>

Offsite works =118m<sup>3</sup>

Total adoptable drainage spoil - 902m<sup>3</sup>

**CONTAMINATED MATERIAL**

Allowance =40m<sup>3</sup>

**CUT AND FILL**

Phase 1 works =323m<sup>3</sup> Cut, 517m<sup>3</sup> Fill

Phase 2 works =280m<sup>3</sup> Cut, 975m<sup>3</sup> Fill

Combined - 603m<sup>3</sup> Cut, 1492m<sup>3</sup> Fill

Net - 889m<sup>3</sup> Fill

**SUMMARY**

Approximate excess topsoil - 2,264m<sup>3</sup>

Approximate excess spoil - 958m<sup>3</sup>

Approximate excess contaminated spoil - 40m<sup>3</sup>

**NOTE**

Calculations do not include for bulking or compaction.

Rev	Details	Date	Drwn	Chk
<b>Newett Homes</b>				

**Yew Tree Road  
Birchencliffe, Huddersfield**

**Cut and fill analysis**

Dwg No. : STE/25/03/19  
Date : 28-10-25  
Scale : 1:500 Copyright © Shaun Tonge Engineering

**SHAUNTONGE**  
ENGINEERING

11 Broomhead Road, Wombwell, Barnsley, S73 0SA.  
Mobile 07528 278070. Email shauntongeengineering@yahoo.co.uk