



**Notes**

1. Do not scale this drawing. All dimensions must be checked/ verified on site. If in doubt ask.
2. This drawing is to be read in conjunction with all relevant architects, engineers and specialists drawings and specifications.
3. All dimensions in millimetres unless noted otherwise. All levels in metres unless noted otherwise.
4. Any discrepancies noted on site are to be reported to the engineer immediately.
5. Plot boundaries and building and external works footprints shown on this drawing are indicative only, based on the latest masterplan drawing.
6. BWB proposed earthworks analysis, including site strip, is indicative only. It is based on third party information and general assumptions and should be read in conjunction with the BWB earthworks specification document.
7. BWB do not accept responsibility for variations in the actual depth of site strip or any other on site earthworks which may affect the resulting volumes. The contractor shall undertake an independent analysis of proposed earthworks to satisfy himself as to the validity of the information provided.
8. The specification for highway works (SHW) series 600 (1998) published by HMSO shall form the base specification for all earthworks and the contractor shall be responsible for classification, testing, placing and compaction of material in accordance with clauses 601, 602, 603, 608, 612 and 613.
9. Isopachyte contours/volumetric analysis represent approximate cut and fill volumes between the proposed formation levels against ground levels following site strip.
10. Approximate earthworks volumes have been determined based on the following assumptions/caveats:
  - 10.1. site strip assumed to be 300mm across the site.
  - 10.2. no bulking factors have been considered.
  - 10.3. drainage and foundation arisings considered.
  - 10.4. 450mm formation depth assumed for whole site.
11. This drawing is to be read in conjunction with the Finished Levels drawing 601.

**Legend**

- 1.00 — Depth of fill (1m intervals)
- 0.40 — Depth of fill (200mm intervals)
- 0.00 — Depth of cut (1m intervals)
- 0.40 — Depth of cut (200mm intervals)
- 0.00 — Zero cut/fill

Rev	Date	Details of issue / revision	Drw	Rev
P3	10.07.19	Updated to suit new masterplan	RAL	RAL
P2	26.06.18	Revised for 1.2m deep attenuation cells	MR	RAL
P1	18.05.18	Preliminary issue	MR	RAL

**Issues & Revisions**

**BWB**  
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Client  
**HB (South Caldecotte) Ltd**

Project Title  
**South Caldecotte**

Drawing Title  
**Cut & Fill Isopachytes**

Drawn:	M. Ross	Reviewed:	R. Leyland
BWB Ref:	NTS 2682	Date:	18.05.18
Scale:	A1: 1:2000		

Drawing Status  
**Preliminary**

Project - Originator - Zone - Level - Type - Role - Number	Status	Rev
<b>SCD-BWB-DGT-XX-DR-D-631</b>	<b>S1</b>	<b>P3</b>

**Earthworks Summary**

- Site Strip:
  - Taken to be 300mm across the full site area of 509,400m<sup>2</sup> = 152,820m<sup>3</sup>
  - Approximately 35,200m<sup>3</sup> of this can be retained on site and re-used in landscaped areas (area of landscaping = 78,222m<sup>2</sup> @ 450mm deep)
  - Total volume excess = 117,620m<sup>3</sup>
- Bulk Earthworks:
  - (existing site -300mm vs finished levels -450mm)

	Cut	Fill
Gross:	258,157m <sup>3</sup>	337,359m <sup>3</sup>
Net:		79,202m <sup>3</sup>
- Drainage and Foundation Arisings:
  - Attenuation tanks calculated to be approximately 40,000m<sup>3</sup> (including bedding & surround)
  - Additional arisings for drainage and foundations calculated to be 0.075m<sup>3</sup>/m<sup>2</sup> = 38,205m<sup>3</sup>

Total arisings therefore = 78,205m<sup>3</sup>

- Import/Export:
  - Topsoil = 117,620m<sup>3</sup> export
  - Earthworks = 990m<sup>3</sup> import

Given the size of the development, this is taken as a cut/fill balance, as levels can be adjusted slightly to achieve a balance once all contributing factors are confirmed (site strip, construction build-up, arisings etc...)