General Notes

1. DO NOT SCALE.
2. This drawing is to be read in conjunction with all other relevant drawings and details.
3. Should there be any conflict between the details indicated on this drawing and those on other drawings the Engineer should be informed PRIOR to construction on site.
4. Until technical approval has been obtained from the relevant Authority, it should be understood that all drawings issued are Preliminary and NOT for construction. Should the Contractor commence site work prior to such approval being given it is entirely at their own risk.
5. Sketch proposals are for illustrative purposes only and as such are subject to detailed site investigation including ground conditions / contaminants, drainage, design and planning / density negotiations.
6. All dimensions are in millimetres unless otherwise stated.
7. The Farrow Walsh Consulting Designers Risk Assessments for this project must be reviewed PRIOR to the commencement of any works on site.

LEGEND

Site Ownership Boundary

NOTES

1. The volume calculations include all features identified at the time the survey was undertaken by Mapmatic Measured Surveys dated 18.03.20193

Formation Cut and Fill Isopachytes				
MINIMUM LEVEL	MAXIMUM LEVEL	COLOUR	AREA (m^2)	VOLUME (m^3)
-1.50	-1.00		111.742	24.219
-1.00	-0.50		647.655	230.048
-0.50	0.00		937.214	635.727
0.00	0.50		2,461.855	3,922.266
0.50	1.00		5,594.748	1,420.254
1.00	1.27		566.849	48.627
CALCULATION EXCLUDES SITE STRIP OF 350mm AND ARISINGS FROM DRAINAGE & SERVICES.				

Eng. Fill	48m³
Cut	889.944m³
Fill	5,391.147m³
Net Fill	**4,549.152m³**

The site formation cut and fill volumes shown are between the surveyed site levels and the development formation levels. The following construction depths have been assumed:

Assumed Development Formation Depths:

- Building and Garage Foundations : 750mm
- Adoptable Bituminous Road assumed <2% CBR (TBC) : 860mm
- Adoptable Bituminous Footpath assumeds <2% CBR (TBC) : 225mm
- Attenuation Pond : 450mm
- Soft Landscaping : 300mm

Site Strip:

- Total Development Area : 10,379m²
- Made Ground Site Strip Depth (based on remediation strategy) : 900mm
- Site Strip Volume : **9,341m³** (10,379m² x 0.900m)

Hardstrip:

- Existing Hardstrip Area : 2,359m²
- Assumed Depth of Hardstrip to be crushed for reuse : 300mm
- Total Hardstrip Volume : **708m³** (2,359m² x 0.300m)

Crushed Hardstrip for Reuse

- Adoptable Road Area : 1,103m²
- Adoptable Road Engineered Fill Requirement : **756m³**
- Net Engineered Fill Requirement : **48m³** (708m³ - 756m³)

SITE STRIP VOLUME TO BE REMOVED FROM SITE 8,633m³
(Site Strip Volume: 9,341m³ - Hardstrip Volume: 708m³)

TOTAL NET FILL VOLUME REQUIRED 4,549m³

CUT AND FILL VOLUMES BASED ON THE 1.0 BULKING FACTOR

Rev	Description of updates	Drawn	Check'd	Appr'd	Date
T1	Issued for Tender.	BM	ST	JD	25.06.19

Revision Schedule

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TENDER

Client: GEDA Construction Ltd.

Project: Station Road, Long Sutton

Title: Formation Cut and Fill Isopachytes

Drawn:	Checked:	Approved:	Date:	Scale:
BM	ST	JD	June 2019	1:250 @ A1

Drawing No. **FW1733-E-506** Revision: **T1**

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