

P/2018/00438
Received
29/03/2018



Prior to commencement of works, invert level to be confirmed in order to ascertain the existing invert level of Foul Water Sewer at the proposed point of connection.

PRELIMINARY

THIS DRAWING ILLUSTRATES A SKETCH PROPOSAL ONLY AND AS SUCH IS SUBJECT TO DETAILED SITE INVESTIGATION INCLUDING GROUND CONDITIONS/CONTINANTS, DRAINAGE, DESIGN AND PLANNING/DENSITY NEGOTIATIONS. THE LAYOUT MAYBE BASED UPON AN ENLARGEMENT OF AN OS SHEET OR OTHER SMALL SCALE PLANS AND ITS ACCURACY WILL NEED TO BE VERIFIED BY SURVEY. FULL RISK ANALYSIS UNDER CDM REGULATIONS HAS NOT BEEN UNDERTAKEN.

The Contractor is to check and verify all building and site dimensions, levels and sewer invert levels at connection points before work starts. The Contractor is to comply in all respects with current Building Legislation, British Standard Specifications, Building Regulations, Construction (Design & Management) Regulations, Party Wall Act, etc. whether or not specifically stated on this drawing. This drawing must be read with and checked against any structural, geotechnical or other specialist documentation provided. This drawing is not intended to show details of foundations, ground conditions or ground contaminants. Each area of ground relied upon to support any structure depicted (including drainage) must be investigated by the Contractor. A suitable method of foundation should be provided allowing for existing ground conditions. Any suspect or fluid ground, contaminants on or within the ground, should be further investigated by a suitable expert. Any earthwork constructions shown indicate typical slopes for guidance only & should be further investigated by a suitable expert. Where existing trees / structures are to be retained they should be subject to a full specialist inspection for safety. All trees are to be planted so as to ensure they are a minimum of 5 metres from buildings. A suitable method of foundation is to be provided to accommodate the proposed tree planting. Residential & Commercial Engineering Limited do not accept any responsibility for any losses (financial or otherwise) to any Client or third party arising out of the Clients the Developer or Contractor but not limited thereto) non-compliance with above mentioned provisions. © This drawing is the property of Residential & Commercial Engineering Limited and may not be copied or used for any purpose other than that for which it is supplied without the express written authority of Residential & Commercial Engineering Limited.

GENERAL NOTES:

- VOLUMES HAVE BEEN TAKEN FROM THE TOPO SURVEY AS PROVIDED BY CLIENT. THEREFORE RESIDENTIAL AND COMMERCIAL ENGINEERING LIMITED TAKE NO RESPONSIBILITY FOR THE ACCURACY OF THIS DRAWING.
- FORMATION DEPTHS BELOW THE DEVELOPMENT AREA ARE AS NOTED IN CRITERIA / ASSUMPTIONS NOTES.
- ALL VOLUMES NOTED DO NOT INCLUDE A BULKING FACTOR.
- VOLUMES GIVEN DO NOT TAKE INTO ACCOUNT THE SUITABILITY OF MATERIALS. TO BE RE-USED IN ANY PARTICULAR AREA. CONSIDERATION WILL NEED TO BE GIVEN TO THE ENGINEERING PROPERTIES TO ENSURE SUITABILITY.
- IT HAS BEEN ASSUMED THAT ALL MATERIALS IN THE CUT AND FILL EXERCISE ARE NOT CONTAMINATED AND CAN BE RE-USED AS REQUIRED. ONLY CLEAN ARISING'S SHOULD BE LOCATED IN THE CAPPING LAYER OF LANDSCAPE AREAS. ALL OTHER MATERIAL SHOULD BE LOCATED BELOW CAPPING LAYER.
- AN AS-BUILT SURVEY SHOULD BE PROVIDED ON SITE COMMENCEMENT TO ALLOW RE-ASSESSMENT OF THE VOLUMES BASED ON ACTUAL SITE LEVELS.

CRITERIA / ASSUMPTIONS

- VOLUMES HAVE BEEN TAKEN FROM THE TOPO SURVEY AS PROVIDED BY CLIENT. THEREFORE RESIDENTIAL AND COMMERCIAL ENGINEERING LIMITED TAKE NO RESPONSIBILITY FOR THE ACCURACY OF THIS DRAWING.
- NO ALLOWANCE HAS BEEN MADE FOR FOUNDATION ARISING'S, REMEDIATION REQUIREMENTS, CARRIAGEWAY & PRIVATE DRIVE CONSTRUCTION THICKNESSES, TOPSOIL, OR SEWERAGE & SERVICES CONSTRUCTION.
- CRITERIA AS SPECIFIED BY THE CLIENT FOR THE POST DEMO FORMATION LEVELS > (NON SPECIFIED)

MODELS USED

SURVEY GROUND MODEL - TATENHILL EXISTING.DGM
PROPOSED LEVELS - TLB PROPOSED.DGM

CUT AND FILL EXERCISE

- VOLUMETRIC CALCULATIONS ARE TAKEN BETWEEN THE TOPOGRAPHICAL SURVEY AND THE PROPOSED FORMATION LEVELS IN THE DEVELOPMENT AREA ONLY. VOLUMETRIC CALCULATIONS HAVE NOT BEEN CALCULATED OUTSIDE THE DEVELOPMENT BOUNDARY.

TOTAL PLAN SURFACE AREA IN CUT	=	688.6 m ²
TOTAL PLAN SURFACE AREA IN FILL	=	25,809.0 m ²
GROSS VOLUME OF CUT	=	37.6 m ³
GROSS VOLUME OF FILL	=	11,918.9 m ³
NET FILL MATERIAL REQUIRED	=	11,881.3 m ³

CUT Depth Bands

- Band 1 -0.00 - -0.25
- Band 2 -0.25 - -0.50
- Band 3 -0.50 - -1.00
- Band 4 -1.00 - -2.00
- Band 5 -2.00 - -3.00
- Band 6 -3.00 - -4.00
- Band 7 -4.00 - -5.00

FILL Depth Bands

- Band 1 0.00 - 0.25
- Band 2 0.25 - 0.50
- Band 3 0.50 - 1.00
- Band 4 1.00 - 2.00
- Band 5 2.00 - 3.00
- Band 6 3.00 - 4.00
- Band 7 4.00 - 5.00

PLEASE NOTE THAT THE CUT & FILL EXERCISE HAS BEEN BASED ON A COMPARISON IN BETWEEN THE EXISTING TOPO SURVEY AND THE PROPOSED FINISHED LEVELS AS SHOWN ON THE ENGINEERING LAYOUT

Rev	Description	Date	Drawn	Check
Revisions:				



Drawing Status:
S101 - Subject to Technical Approval from Staffordshire CC Highways
S104 - Subject to Technical Approval from Severn Trent Water
S106 - Developer to complete application/approval with STW.
Consent to Discharge - Developer to complete application/approval with SCC Land Drainage Team

Client:
LIONCOURT HOMES

Project:
TATENHILL LANE, BRANSTON

Title:
CUT & FILL PLAN
ISOPACHYTES & VOLUMES

Job Number. RACE/LCH/TLB	Scale: 1:500 @ A1
Drawing No. ENG_240	Date: June '17
Revision. #	Drawn by: SM
	Checked by: GJ

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