Drawings

MK_G-AP011.Y3.101.r2	Site Location Plan
1531/14	Residual Bouguer Gravity Plan (Geotechnology Ltd)
MK_G-AP011.Y3.102.r0	Exploratory Hole Location Plan
R-12889.201	Topographical Survey Drawing (Tower Surveys)
G-AP011.Y3.400	Gravity Profile Section

Site Location Plan

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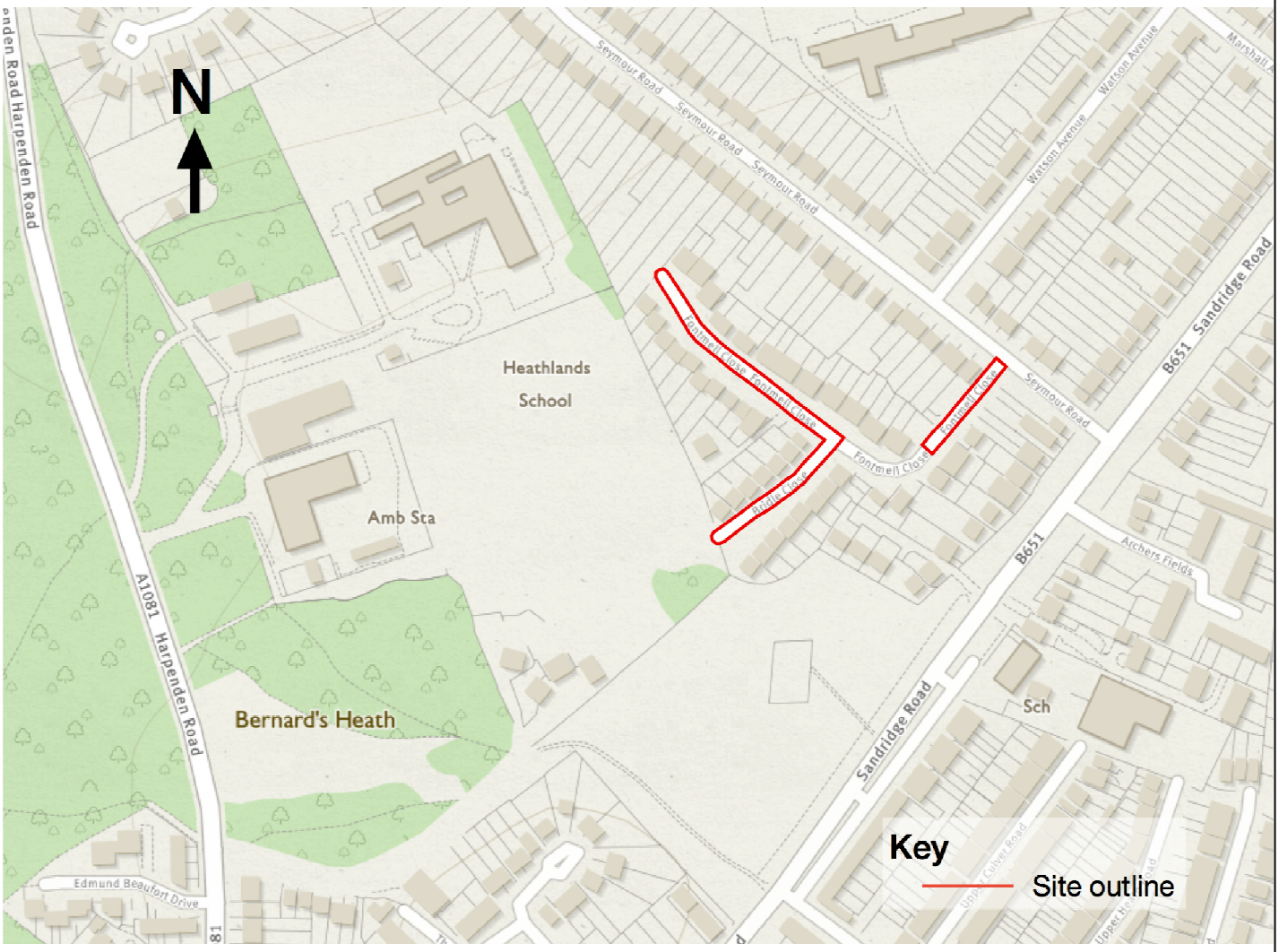

	BY	CHECKED	DATE
DESIGN	EDH	ES	Feb16
DRAWN	EDH	ES	Mar16

APPROVED: PE

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Tel: 01908 373 383

Site: Fontmell Close/Bridle Close St Albans

Client: Hertfordshire County Council

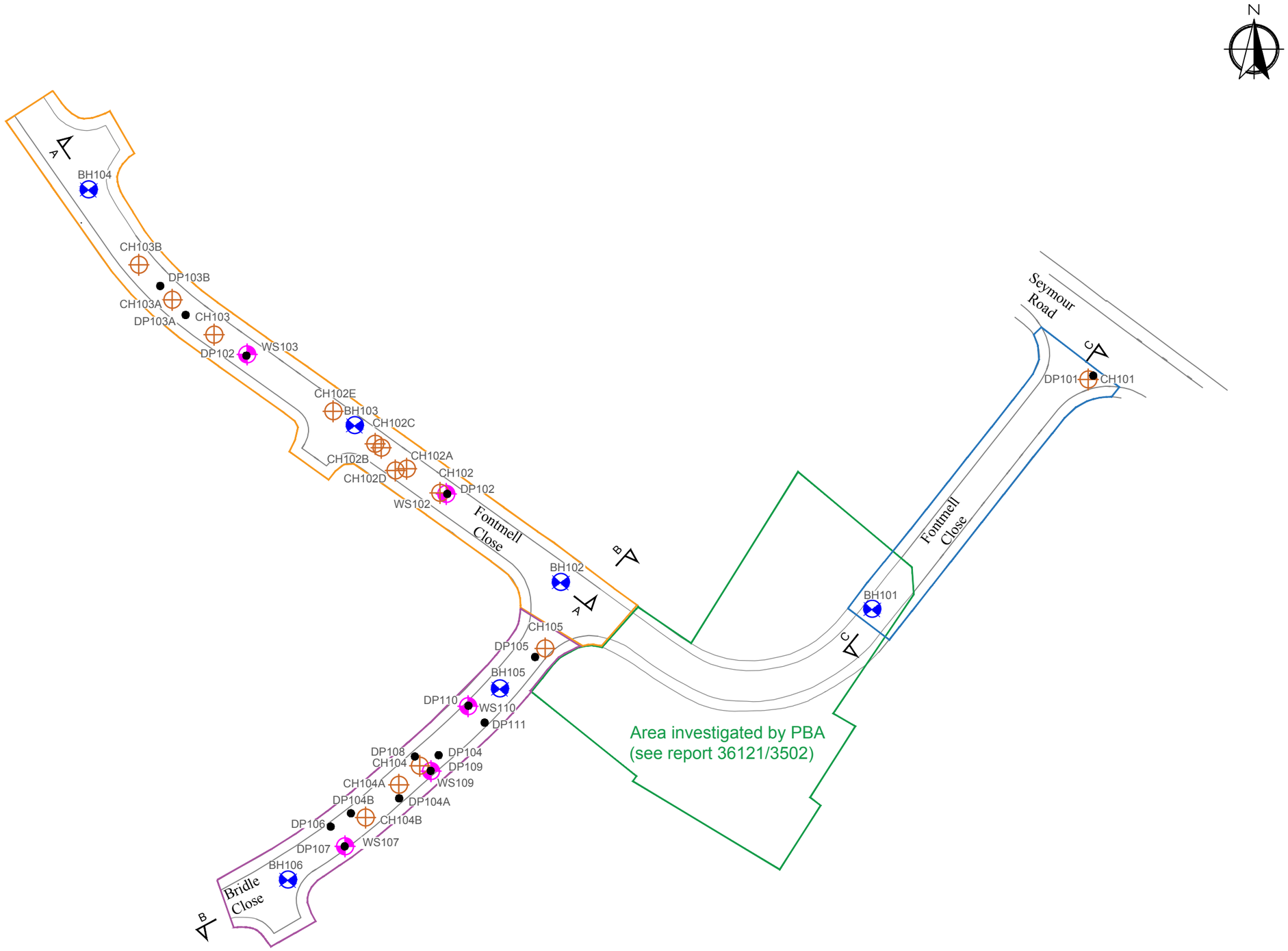
Status: For Information **File:** G-AP011.Y3

Scale: Not to scale **Date:** 08th February 2016

Drawing Number: MK_G-AP011.Y3.101CO_100_R2

Key:

- Window sampling locations
- Rotary Borehole locations
- Dynamic Probe locations
- Cable Percussive Borehole locations
- Geological Sections
- Area 1
- Area 2
- Area 3



Note: Exploratory holes drilled between 12/2015 - 02/2016

1:750 @ A3 — 0, 7.5, 15, 22.5, 30, 37.5 m

FINAL

Revision	Amendment	Approved	Revision Date
R0	First Issue - Draft	PE	03/03/2016
R1	Second Issue - Final	NM	06/04/2016

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Drawn	Designed	Approved	Revision Date
LF	EDH	PE	03/03/2016

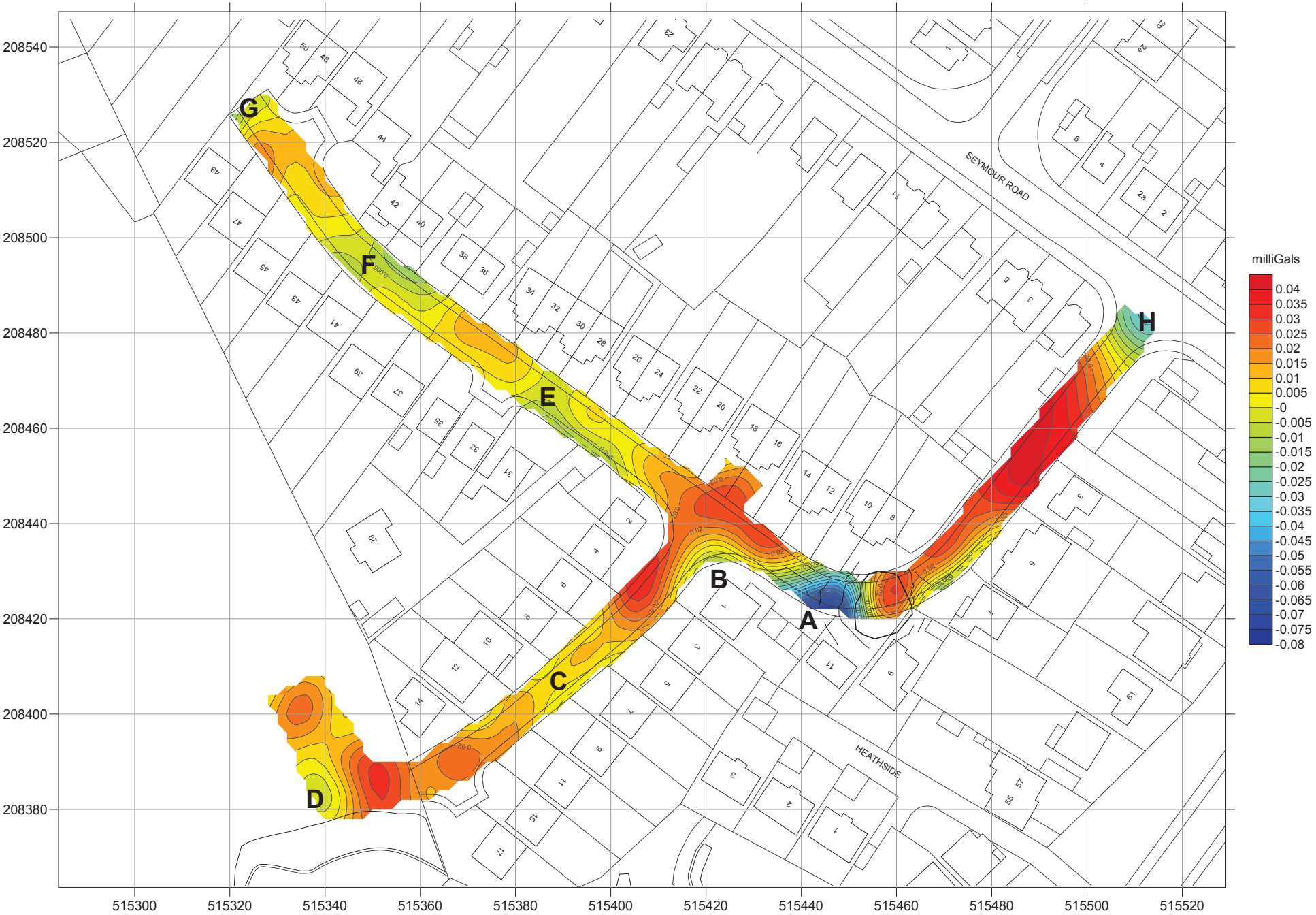
Project No.	Scale
G-AP004.Y3	1:750 @ A3

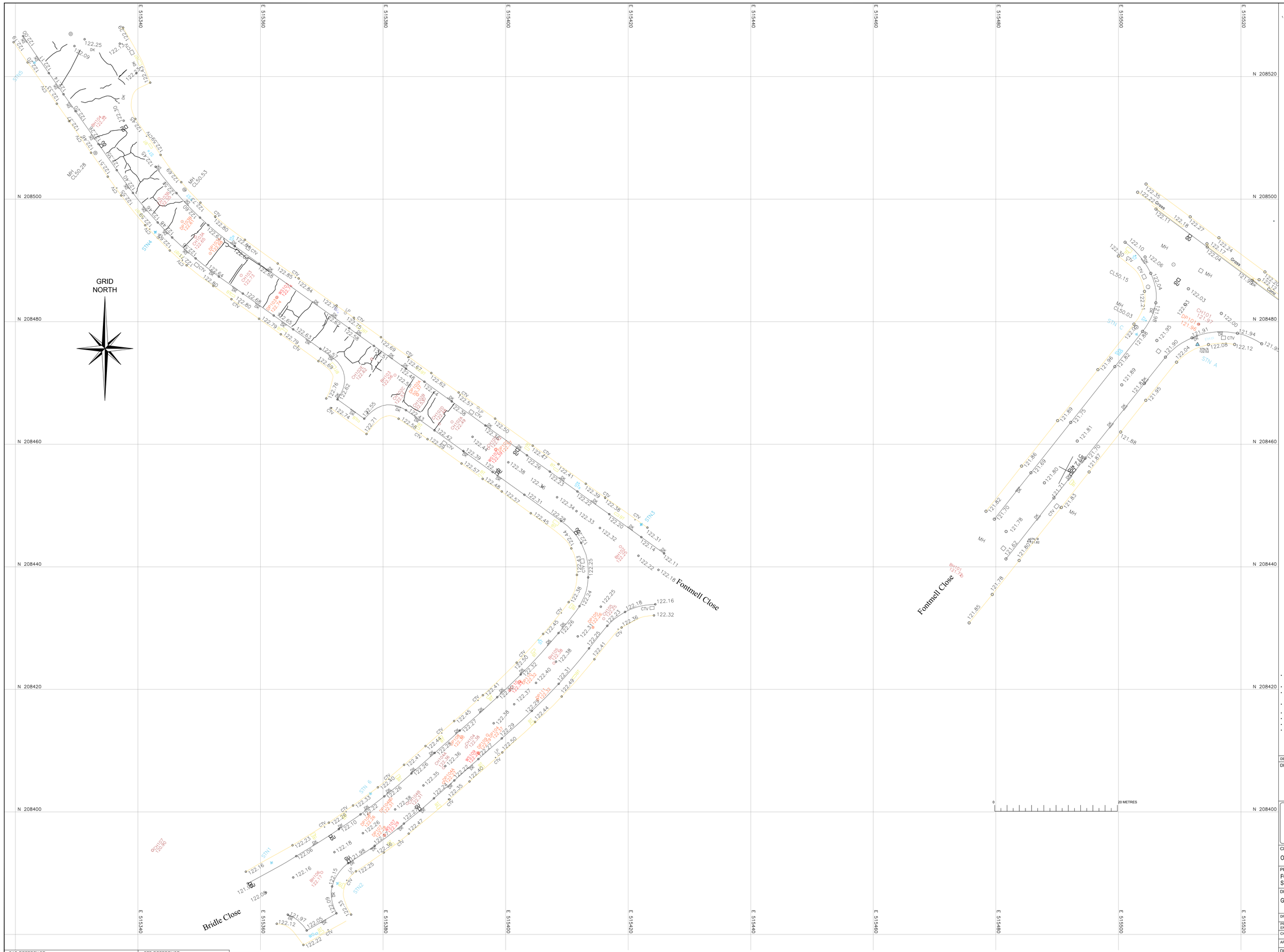
Project: Fontmell Close/Bridle Close

Sheet: Exploratory Hole Location Plan

Drawing No.	Sheet. No.	Revision
MK_G-AP011.Y3.102	1	R1

Figure 1531/14 Residual Bouguer Gravity Plan





NOTES

A0

1. SURVEY CONTROL

A) SURVEY GRID (HORIZONTAL):

THIS SURVEY IS ORIENTATED TO ORDNANCE SURVEY GRID NORTH. THE SURVEY IS TO A PLANE GRID. HORIZONTAL MEASUREMENTS TAKEN FROM THIS SURVEY WILL BE GROUND DISTANCE.

FULL ORDNANCE SURVEY CO-ORDINATES CAN BE CALCULATED BY SCALING THE SURVEY ABOUT THE SITE CENTRE, WITH CO-ORDINATES E 515422.12 N 208448.81 AS FOLLOWS:

THE LOCAL SCALE FACTOR (LSF) APPLICABLE TO THIS SITE IS 0.9997E. CALCULATED USING STANDARD TABULATED DATA.

THE CONTROL HAS BEEN ESTABLISHED BY TYING INTO THE ACTIVE ORDNANCE SURVEY CONTROL NETWORK. SEE NOTE C. BELOW.

(FOR THIS RELATIVELY LOW LEVEL SITE, MEAN SEA LEVEL CORRECTIONS (MSL) ARE DEEMED TO BE INSIGNIFICANT AND HAVE THEREFORE NOT BEEN APPLIED.)

B) VERTICAL DATUM:

ALTITUDES FOR THE CONTROL HAVE BEEN CALCULATED FROM GPS DERIVED HEIGHTS AND TRANSFORMED TO ORTHOMETRIC HEIGHTS ORDNANCE DATUM NEWLYN - ODN) USING OSGM02 TRANSFORMATION PARAMETERS.

C) GPS CONTROL:

THE CO-ORDINATE SYSTEM USED FOR THE PRIMARY CONTROL IS OSGB36. THIS HAS BEEN CALCULATED FROM ETRS89 USING OSTN02 TRANSFORMATION PARAMETERS.

METHOD: FOR THIS PARTICULAR PROJECT, THE "TRIMBLE VRS NOW" NETWORK HAS BEEN USED. OBSERVATIONS HAVE BEEN TAKEN ON THE FOLLOWING DATE (S): 18-02-2016

MANUFACTURERS QUOTED ACCURACY IS RMSE 10 – 20 mm IN PLAN AND 20 – 30 mm IN HEIGHT. ALTHOUGH THIS IS ACCEPTABLE FOR MOST SURVEYS, MULTIPATH ERRORS COULD CAUSE DEGRADATION TO THE FINAL SOLUTIONS. FOR SALIENT CONTROL AND WHEREVER POSSIBLE AND PRACTICAL, TOWER SURVEYS HAVE USED AN OPEN SKY WITH GOOD SATELLITE GEOMETRY SO AS TO MAINTAIN THE HIGHEST ACCURACY POSSIBLE.

2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH:
   ALL OTHER RELEVANT DRAWINGS/DOCUMENTATION.
   NAMELY: J211-001-002 Fontmell Close - Bridle Close Road Survey-3
3. CHECK SCALE BAR AND GRID BEFORE TAKING NON-FIGURED DIMENSIONS FROM THIS DRAWING.
4. IF IN DOUBT ASK.

GENERAL

- NO ALLOWANCE HAS BEEN MADE FOR SUB SURFACE ENTRY INTO MANHOLES OR OTHER CHAMBERS OR VOICS BELOW GROUND LEVEL. THEREFORE ANY DETAILS RELATING TO DEPTHS, SIZES ETC. ARE TAKEN FROM ABOVE GROUND AND AS SUCH WILL BE APPROXIMATE ONLY.
- THE CONTRACTOR IS TO CHECK AND VERIFY ALL CRITICAL DIMENSIONS AND LEVELS BEFORE WORK STARTS.
- THE SERVICES SHOWN ON THIS DRAWING MAY BE ASSUMED ROUTES AND WILL NORMALLY BE OF UNKNOWN CONDITION. CONTRACTORS SHOULD UNDERTAKE SUITABLE VALIDATION WORK AND TAKE PARTICULAR CARE DURING EXCAVATION WORK; SAFE DIGGING PRACTICES SHOULD BE FOLLOWED.
- SHOULD THERE BE ANY CONFLICT BETWEEN THE DETAILS INDICATED ON THIS DRAWING AND ANY SUBSEQUENT SETTING OUT BUILDINGS, THEN TOWER SURVEYS SHOULD BE INFORMED PRIOR TO CONSTRUCTION ON SITE.
- IT IS IMPORTANT TO NOTE THAT THE SAME ACCURACIES IMPLIED BY THE PLOTTING SCALE SHOWN ON THIS DRAWING ARE NOT ACHIEVABLE BY SCALING.
- EVERY EFFORT IS MADE TO IDENTIFY ALL VISIBLE ABOVE GROUND FEATURES. HOWEVER, IT SHOULD BE BORNE IN MIND THAT THERE MAY BE ITEMS OBSCURED AT THE TIME OF SURVEY. THE ABSENCE OF ANY FEATURE OR ANY INFORMATION ON THIS SURVEY MAY NOT REPRESENT THE EXTENT OF LEGALLY CONVEYED OWNERSHIP.
- UNLESS OTHERWISE SPECIFIED FEATURES SHOWN USING LINE STYLES OR HATCHING ARE INDICATIVE ONLY, SUCH AS; ROAD MARKING, HEDGE EXTENTS, BRICK HATCHING AND GLAZING DETAIL.

DESCRIPTION	REV	DATE	DRAWN	CHKD	APPR

DRAWING STATUS

INFORMATION

Tower Surveys
Chartered Surveyors
Operative - Land Utilities, Engineering & Building
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Regulated by RICS

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CLIENT
OPUS INTERNATIONAL CONSULTANTS

PROJECT TITLE
FONTMELL CLOSE
ST ALBANS

DRAWING DETAIL
GPS TIE IN AS OF 18/02/2016

DRAWN	MJ	DATE	FEBRUARY 2016
PROJECT ENGINEER	NJD		
CHECKED	NJD	SCALE	1:200 (WHEN PLOTTED @ A0)
APPROVED	NJD		

DRAWING NUMBER: R-12889_201
REVISION:

CAD REFERENCE
\\2016Projects\R-12889\R-12889_201_Issue01

CTB REFERENCE
\\CTB-files\TS-Topo-v01.ctb

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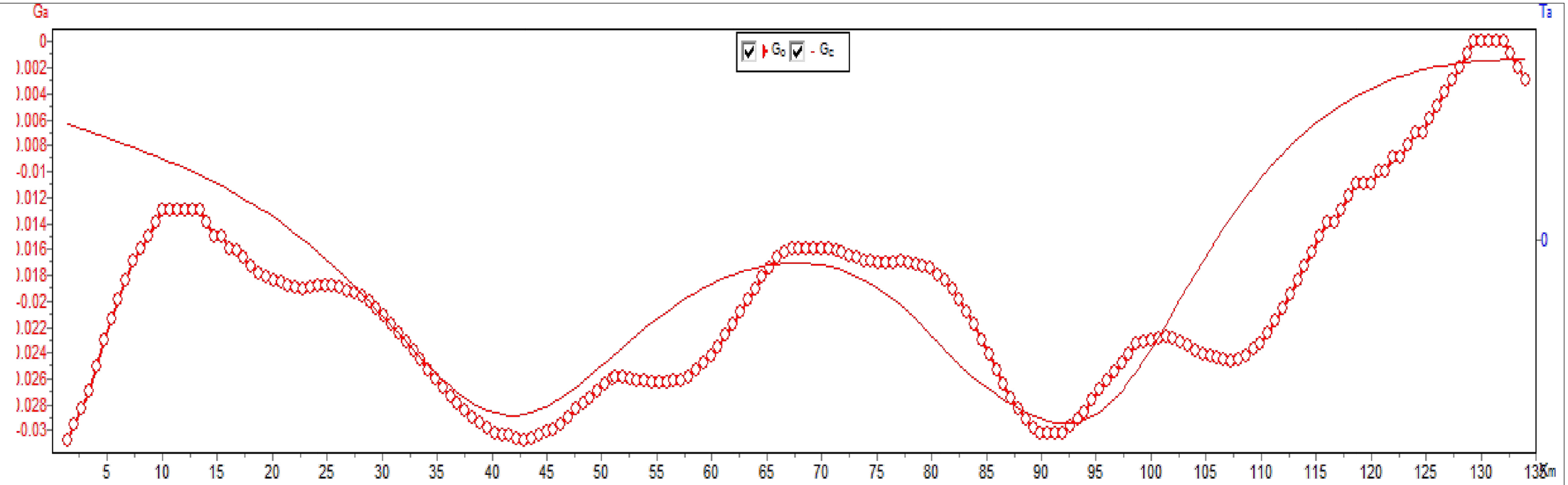
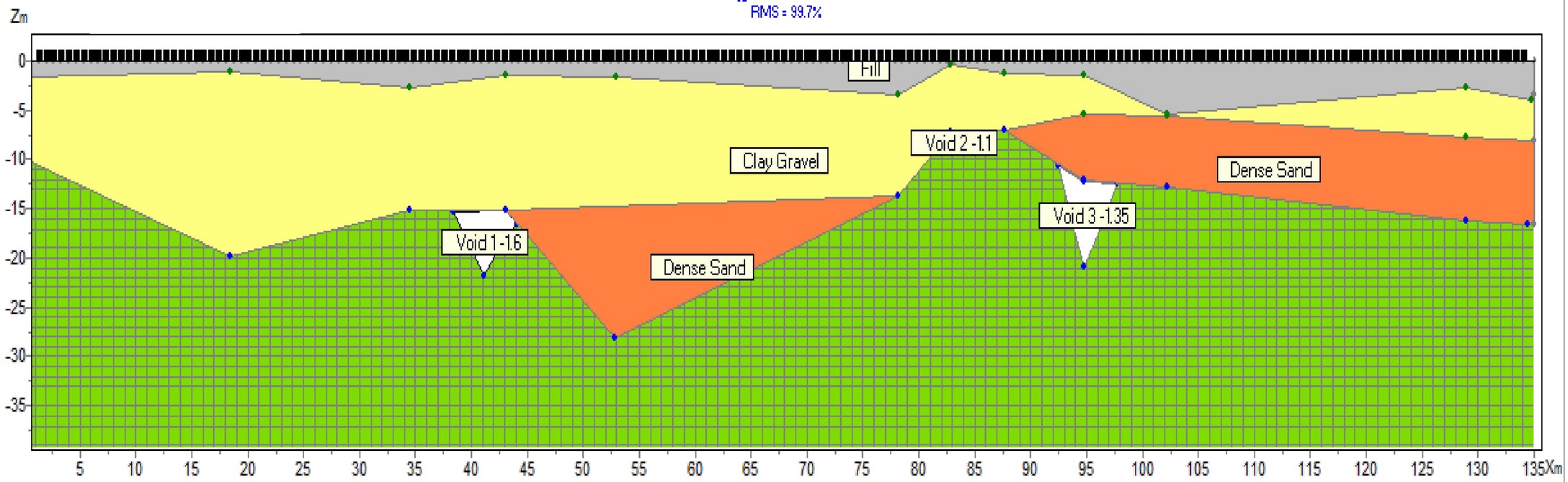


Legend

- Made Ground
- Kesgrave Catchment Supergroup
- Lambeth Group
- Seaford Chalk Group

Polygonal cross-section
RMS = 99.7%



Gravity Profile Section A-A
Scale 1:20 (H=V)

DRAFT

Revision	Amendment	Approved	Revision Date
R0	First Issue	PE	24.03.16

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Drawn	Designed	Approved	Revision Date
DW	ES	PE	24.03.16

Project No.	Scale
G-AP011.Y3.400	As Shown @ A1

Project: Fontmell Close / Bridle Close

Sheet: Gravity Profile Section

Drawing No.	Sheet. No.	Revision
MK_G-AP011.Y3.400	1	R0

1:1 @ A1
1:2 @ A3
0 10 20 30 40 50 60 70 80 90 100 mm

Original Sheet Size A1 [841x594] Plot Date 04 Apr 2016 @ 8:43 AM Path C:\Danes Files\St Albans Cross\Microgravity\G-AP011.Y3 Gravity Profile.dwg Layout1