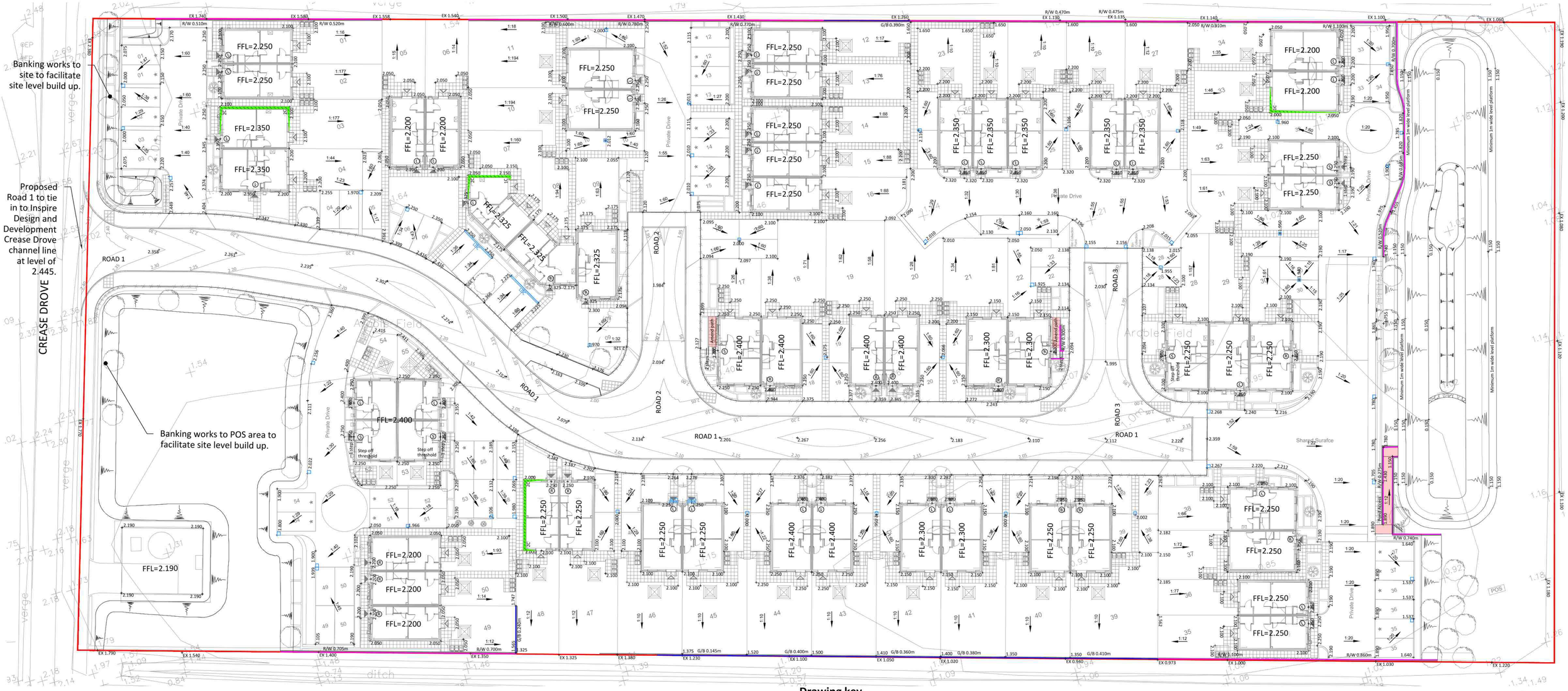



## HIGH GROUNDWATER AND TRENCH INSTABILITY

**Due to High Groundwater Table encountered there are potential issues with ingress of water within trenches. This can cause instability and collapse. Groundworker to ensure appropriate trench shoring up and de-watering works.**

## LOW STRENGTH ORGANIC SOILS

**Due to the presence of organic soils designed levels have been kept to less than 1.3m build up to reduce the chance of settlement.**

**Buried services should be designed with flexible joints to allow the uptake of future movement cause by settlement of the soft soils beneath the site.**

**Ground reinforcement required where CBRs less than 2%. To be designed by a specialist.**

## Health, safety & the environment

In accordance with the Construction (Design and Management) Regulations 2015, the designs and details on this drawing have been the subject of a Designers Risk Assessment, to identify risks in the construction, use, or demolition of the scheme.

It is not considered necessary for Designers to highlight obvious and/or common risks (such as deep excavations, manual handling and working around heavy plant) which Contractors should be familiar with, and be able to control by good management and site practice.

So far as is reasonably practicable, the risks inherent in the design have been eliminated. Where it has been considered that elimination of a risk (or part of a risk) is not reasonably practicable, it has been reduced.

Significant unusual residual risks are identified on the drawing by use of a Yellow Caution Marker, beside the measures which have been adopted to eliminate and/or reduce them.

Refer to JPP Drawing No. 100 for Health & Safety Risks

| This drawing has been based/developed using the following external drawings | | | | | |
|---|---|---|---|---|---|
| Type | Company | Drawing date | Drawing title | Date received | Rev |
| Topographical Survey | TCS Topo & Volumetric Surveys | Jul 2015 | Topographical Survey July 2015 | 09.04.19 | - |
| Topographical Survey | JPP | June 2020 | XREF_Topo (shows foul outfall MH 6701) | 08.06.20 | - |
| Site Layout | RGP | 08.09.20 | 100-220/(90)001E External Works | 18.11.20 | E |
| JPP CONSULTING TO BE INFORMED IMMEDIATELY IF THESE DRAWINGS ARE NO LONGER CURRENT | | | | | |

## General Notes

1. All dimensions are in metres unless otherwise stated.
2. All levels are in metres and are in relation to Ordnance Datum
3. This drawing is to be read in conjunction with all relevant Engineers and Architect's drawings, Specifications, Reports and Engineering Details.
4. Do not scale from this drawing.

| Agreement | Approval Date |
|---|---|
| Section 278 (Works within the Existing Highway) | N/A |
| Section 38 (Highways adoption agreement) | Not Approved |
| Section 104 (Sewer adoption agreement) | Not Approved |
| Section 106 (Permission to discharge to public sewer) | Not Approved |
| Section 23 (Permission to discharge into watercourse) | Consent granted 09.04.20 |

DRAWINGS HAVE NOT BEEN APPROVED, UNTIL THE DRAWINGS ARE APPROVED THE DESIGNS AND DETAILS SHOWN ON THIS DRAWING ARE SUBJECT TO CHANGE

ANY WORKS UNDERTAKEN PRIOR TO TECHNICAL APPROVAL IS ENTIRELY AT THE CONTRACTOR'S RISK

ALL ADOPTABLE HIGHWAY WORKS TO BE IN ACCORDANCE WITH LINCOLNSHIRE COUNTY COUNCIL DEVELOPMENT ROAD AND SUSTAINABLE DRAINAGE SPECIFICATION AND CONSTRUCTION

## Drawing key

| | |
|---|---|
| | Site boundary - taken from latest layout referenced |
| FFL=144.300 | Finished Floor Level |
| 4C | Exposed Brickwork - starting 150mm below DPC. 4C = No. of course exposed |
| Ⓛ | Part M level access |
| Ⓢ | Part M stepped access |
| Ⓡ | Part M ramped access |
| | Banking works (Max 1:3) |
| Amend path | Front access path to be amended to route shown |
| 1:20 | Gradient |
| +1.39 | Existing ground level |
| 1.0m | Existing contour |
| R/W 0.950m | Structural retaining wall |
| G/B 0.300m | Gravel board 0.45m maximum |
| +2.100 | Proposed level |
| 2.20 | Proposed road contour |
| +EX 1.325 | Existing boundary level |
| ,2.100 | Back of footway level |
| 2 Steps | Steps (max 150mm rise, min 280mm going) |
| | Private trapped pot gully |
| LDC | Linear drainage channel |
| ACO | ACO channel |

| | | | |
|---|---|---|---|
| Rev B | Drawing updated to suit client comments | By RF | Checked TH | 18.11.2020 |
| Rev A | Drawing updated to suit client comments | By RF | Checked TH | 04.11.2020 |


**Northampton**
4 Ironstone Way, Brixworth,
Northampton NN6 9UD
T: 01604 781811

**Manchester**
3rd Floor, 82 King Street,
Manchester. M2 4WQ
T:0161 6822927

**Milton Keynes**
Suite 25 Linford Forum, Rockingham Drive,
Linford Wood, Milton Keynes. MK14 6LY
T: 01908 889433

**E:** mail@jppuk.net
W: jppuk.net


- Infrastructure Design
- Structural Engineering
- Planning Services
- Geotechnical & Environmental
- Surveying
- Professional Advice

| | | | |
|---|---|---|---|
| **Drawn By:** | RF | **Client** | Geda Construction |
| **Chkd By:** | TH | **Project** | Housing Development<br>Crease Drove<br>Crowland |
| **Scale @ A1:** | 1:250 | **Title** | External Levels Layout |
| **Date:** | September 2020 | | |
| **Status:** | **TENDER** | | |
| **Project No.:** | 11557H | **Drawing No:** | 113 **Rev:** B |