



**CIVIL / STRUCTURAL DESIGN RISK MANAGEMENT**

Abnormal or unusual residual risks associated with the design outcomes shown on this drawing are:-

RSK LTD has followed its Design Risk Management process for Hazard Elimination and Risk reduction in developing the designs shown on this drawing. Abnormal or unusual residual risks may be shown above where it is considered that such risk may not normally be expected by competent persons engaged on work of this nature or type.

- Notes:**
- This drawing is to be read in conjunction with all Architectural Drawings, Topographical Survey Drawing.
  - This drawing has been prepared Appraisal purposes only, and a detailed design must be carried out prior to construction.
  - Figures quoted next to manholes / rodding eyes are cover & invert level, in metres AOD.
  - Footpaths are to be laid with a crossfall to allow drainage to soft landscaped areas.
  - Where possible all drainage runs shall be kept a minimum of 4.0m from any existing tree that is to be retained.
  - All drainage design is subject to technical approval, no connections shall be made to any public sewers without written consent from the drainage authority.
  - The drawing is made up from PDF overlays which have been scaled and rotated to fit the topographical survey, RSK have no responsibility for the accuracy of the overlays.
  - Proposed ground levels have been raised to assist with the drainage design.

**Drainage Information:**

Total discharge rate for the proposed development is 158.8/s which is QBar (Greenfield Run-off).  
Proposed pipe sizes and attenuation is based on 40% of the site area being impermeable (excluding large PDS areas).  
Existing ditches to be de-silted and re-profiled were necessary.

- Drainage Legend:**
- Proposed foul water sewer and manhole
  - Proposed surface water sewer and manhole
  - Proposed foul water rising main
  - Proposed foul water lateral and connection
  - Proposed surface water lateral and connection
  - Existing ditch/watercourse
  - - - Diverted surface water sewer
  - - - Proposed ditch for site critical overland flow
  - Proposed sewer easement

REFER TO RSK DRAWING 10-01 FOR CONTINUATION

P2	23.07.13	Drawing updated in accordance with latest site plan	MAR	CW	CB
P1	22.07.13	First issue	MAR	CW	CB
Rev.	Date	Amendment	Drawn	Chkd	Appd.

**RSK**  
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Client: **Barratt Homes**

Project Title: **Land Off Chipping Lane Longridge**

Drawing Title: **Engineering Appraisal Phase 1**

Drawn	Date	Checked	Date	Approved	Date
MAR	Apr 14	CW	Apr 14	CB	Apr 14
Scale	Orig Size	Dimensions			
1:500	A0				

Project No: **880500**

Drawing No: **10-02**

Rev. **P2**

