

**Legend:-**

TP 102 Trial Pit Locations (RSK Nov. 2017)

WS 102 Window Samples (RSK Nov. 2017)

**Foundation Type legend:**

Indicates extent of nominally reinforced strip/trench foundations - 0.95m - 1.25m forming depth from existing ground level assuming proposed levels are approximately in line with existing (i.e. minimal cut and fill):

Note:  
The agricultural field area underlying the Phase 1 development area is underlain by Chester Formation granular soils that are medium dense to dense and provide an allowable bearing pressure of 100kN/m<sup>2</sup>.

Indicates extent of reinforced strip/trench foundations:  
Note:  
The coal stocking area underlying the Phase 1 development area is underlain by variable cohesive madeground (reworked colliery spoil) to depths between 1.20m to 2.20m below existing ground level.  
The madeground is underlain by the Chester Formation granular soils that are medium dense to dense and provide an allowable bearing pressure of 100kN/m<sup>2</sup>. Trench foundations are to penetrate the madeground and found within the Chester Formation Soils.  
Final foundation strategy will be subject to change following receipt of the proposed Drainage and External Layouts (by others). It is anticipated that the proposed levels drawing will indicate the existing bund within the coal stocking area having been removed.

Extent of Phase 1 boundary

**Gas Strategy Notes**  
No gas protection measures required in accordance with RSK interpretive Geo-environmental report 301924 R02 (00)

**Foundation construction notes**

This drawing should be read in conjunction with RSK Geo-Environmental Assessment Report (Ref. 301924 - November '17).

- All existing hardstanding areas including roads, paths and oversite slabs should be removed.
- Where existing foundations are encountered during new trench excavation, they should be broken out completely and removed. The void formed should be backfilled with lean-mix concrete up to the normal foundation level. Any data of existing foundation depths to be utilised during design.
- Notwithstanding clause B.2, all substructures must be removed to a minimum depth of 1.0m below finished ground level.

**Foundation Requirements**

- Internal foundation depths are to be at the same depth as the externally connecting foundations.
- All footings must be founded in consistent material.
- Foundations to found in the medium dense to dense granular Chester Formation (sands) with a safe bearing pressure of 100kN/m<sup>2</sup> in accordance with RSK Geo-Environmental Site Assessment. All footings must be founded in consistent material.
- Where soft spots are encountered, the excavation must be deepened until a satisfactory founding material is reached. Localised soft spots are to be removed and replaced by a suitable fill material adequately compacted to the satisfaction of the S.O.

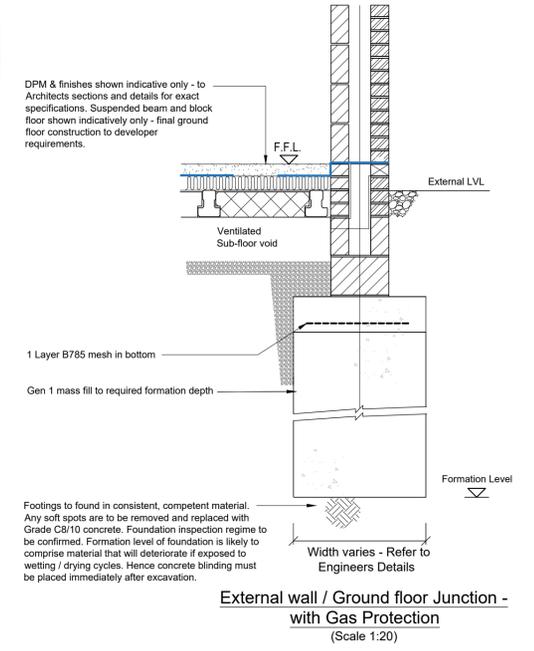
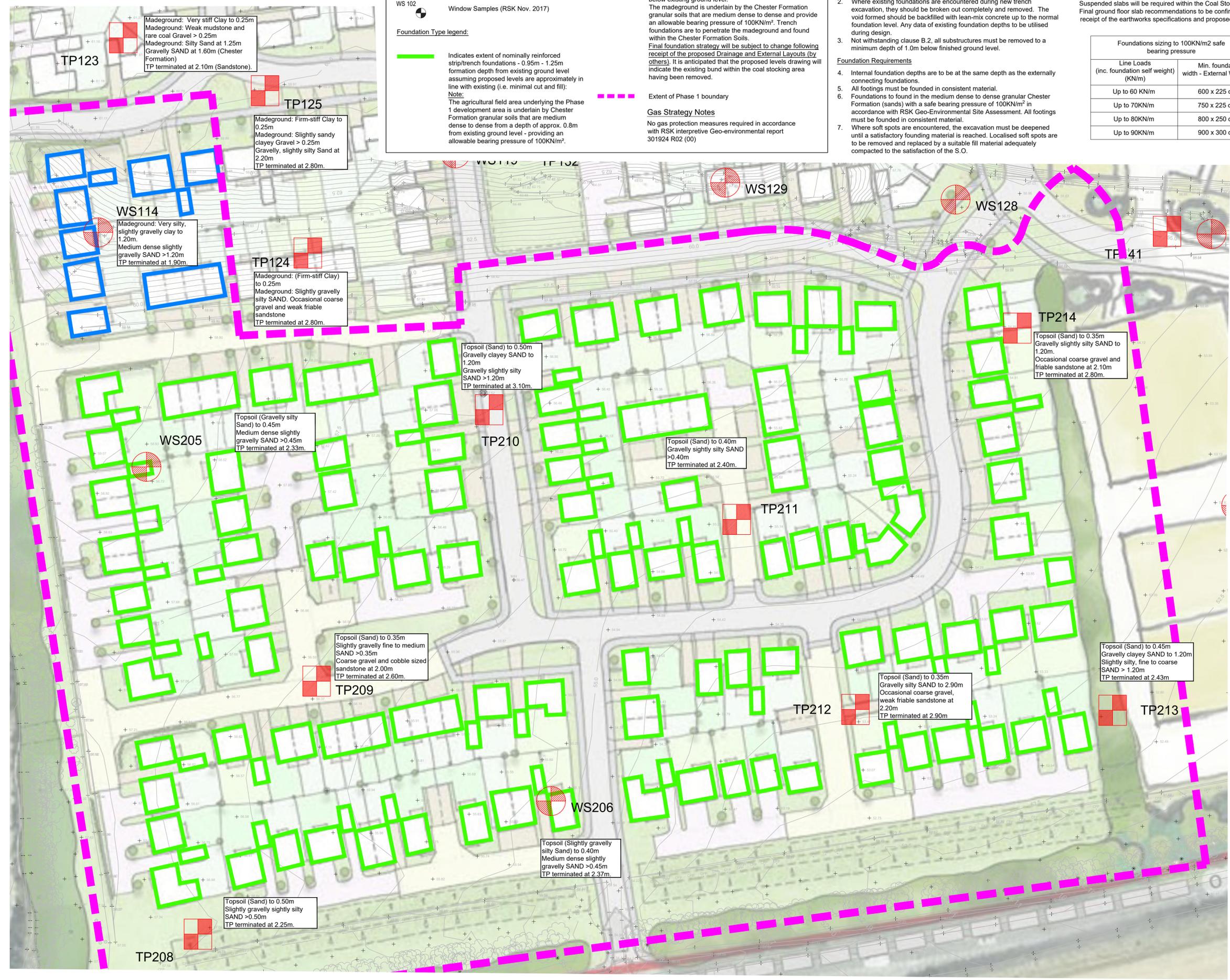
**CIVIL / STRUCTURAL DESIGN RISK MANAGEMENT**

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

RSK LDE 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.

Foundations sizing to 100kN/m<sup>2</sup> safe bearing pressure

Line Loads (inc. foundation self weight) (kN/m)	Min. foundation width - External Wall (mm)
Up to 60kN/m	600 x 225 deep
Up to 70kN/m	750 x 225 deep
Up to 80kN/m	800 x 250 deep
Up to 90kN/m	900 x 300 deep



P2	05.09.18	Gas strategy revised	JG	DW	JG
P1	13.06.18	Issued for INFORMATION	JG	DW	JG
Rev.	Date	Amendment	Drawn	Chkd.	Appd.

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Client  
**HARWORTH ESTATES**

Project Title  
**FORMER THORESBY COLLIERY AREA B**

Drawing Title  
**PHASE 1 DEVELOPMENT FOUNDATION APPRAISAL**

Drawn	Date	Checked	Date	Approved	Date
JG	JUNE '18	DW	JUNE '18	JG	JUNE '18
Scale	1:500	Orig Size	A1	Dimensions	mm

Project No.  
**881496**

Drawing File  
**60-01.dwg**

Drawing No.  
**60-01**

Rev.  
**P2**

