

**PROJECT NOTES**

**Scope:**  
UK Power Solutions are to provide 1 No. Single LV metered supplies to a new housing development.

**Supply Capacity & Loads:**  
The calculated maximum demand for the development is 252kVA and has been derived from the following individual demands:  
77 Residential Properties - 1 Phase @ 1.9 kVA Day 0.5 kVA Night.  
1 School supplies - 3 Phase @ 107 kVA  
2 Landlord supplies - 1No. 100A, 1 Phase - 1No. 100A, 3 Phase  
2x LV points of connection (PoC) @ 252kVA  
PoC1 Location - Adjacent site on Debdon Road  
PoC2 Location - At existing substation on St. Johns Close

All calculations have been carried out using the WinEbit software and following the parameters and specification laid down within the E.S Pipelines G81. The service cables have been calculated using a maximum demand of 12kW.

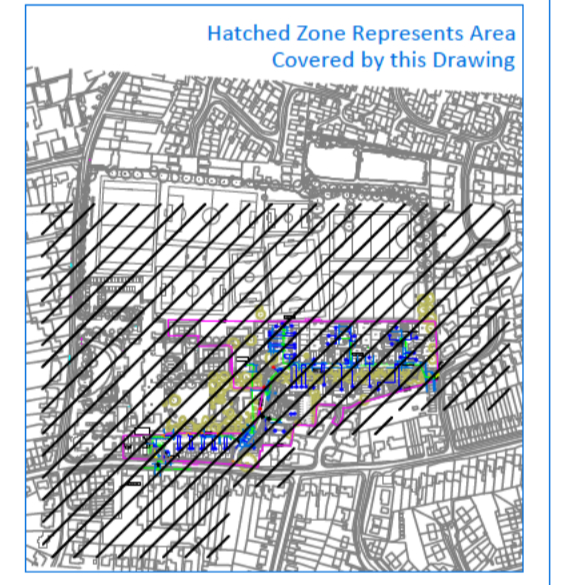
**Supply Exit Points & Metering:**  
The supply exit points for housing will be the outgoing terminals of the 100A Single Phase Cut-outs and they will be whole current metered.

**Disturbing Loads:**  
The design has been completed as specified in 'DWG200'.

**LV Point of Connection:**  
The 2 No. LV point of connection shall be made at the outgoing terminals of the UKPN owned LV link box.  
UKPN Ref: 400961505  
Grid Reference: PoC1 T15337NE  
PoC2 T15337SE

**LV cables:**  
185mm², 95mm² 3 core Al waveform cable (CNE) shall be utilised to install the mains throughout the LV distribution.  
All LV Cables will be laid direct unless otherwise stated on the Site Layout and Cable Routes - (DWG200)  
Cables shall be installed in accordance with the relevant cross section detail.

Project Notes



Site Layout and Cable Routes

REV	AMENDMENT	DATE	BY
11	Joints and dims added to Plots 62-69	28/07/14	CH
10	Dimensions added along plots 70-73	12/04/14	CH
9	Dimensions added along plots 60-61	04/12/13	CH
8	Dimensions added along plots 53-59	21/10/13	GJ
7	Dimensions added to plots 30-40 as per email instruction	24/09/13	CH
6	Feeder pillar added; dimensions added to plots 53 and 54	14/06/13	SB
5	Street lights added	08.03.13	CH
4	LV cables amended	19/12/12	JR



River View House  
Bonds Mill Estate  
Stonehouse  
Gloucestershire  
GL10 3RF

Client	Hill Partnership				
Project	Friends School				
Title	As Laid Plan				
Planning	07772684044				
Project No.	08452 577 105				
Drawn By	YZ	Checked By	AW	Date	20/03/12
Scale	As Shown	Sheet No.	1/1	Original Size	A0
Drawing No.	UKP292 - DWG900	Rev	11		
Drawing Status	For Information				

School Heavy duty cut out

Flat 30-40 Heavy Duty Cut-out

Materials Table