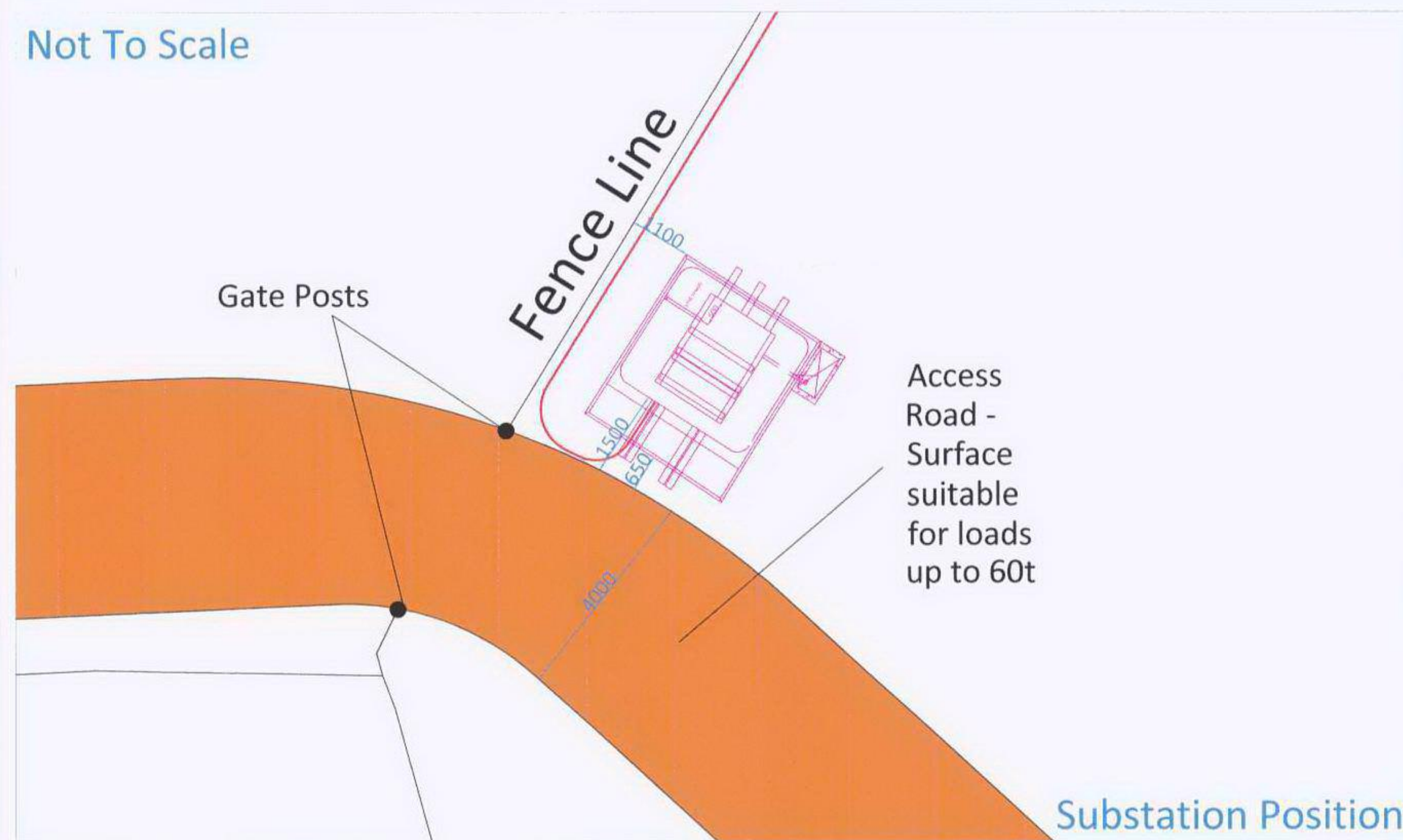


1:2500

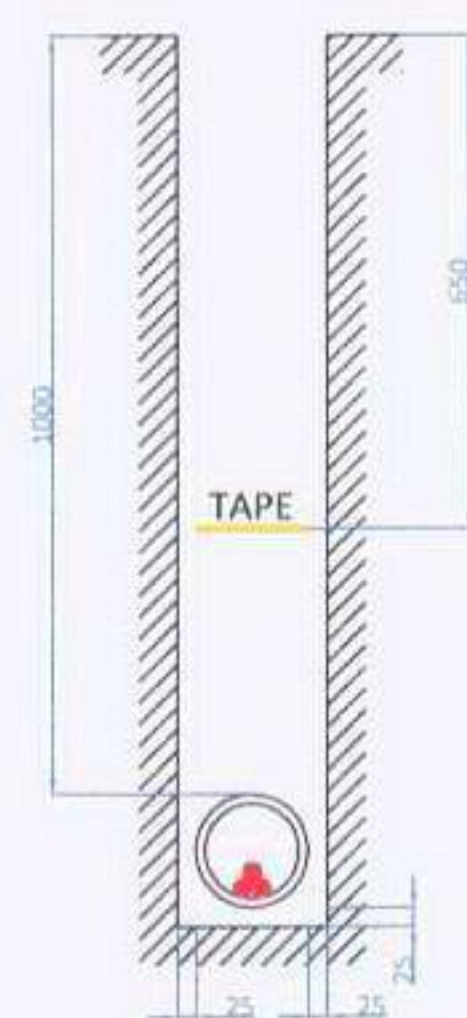


Site Layout and Cable Routes

Not To Scale



Substation Position

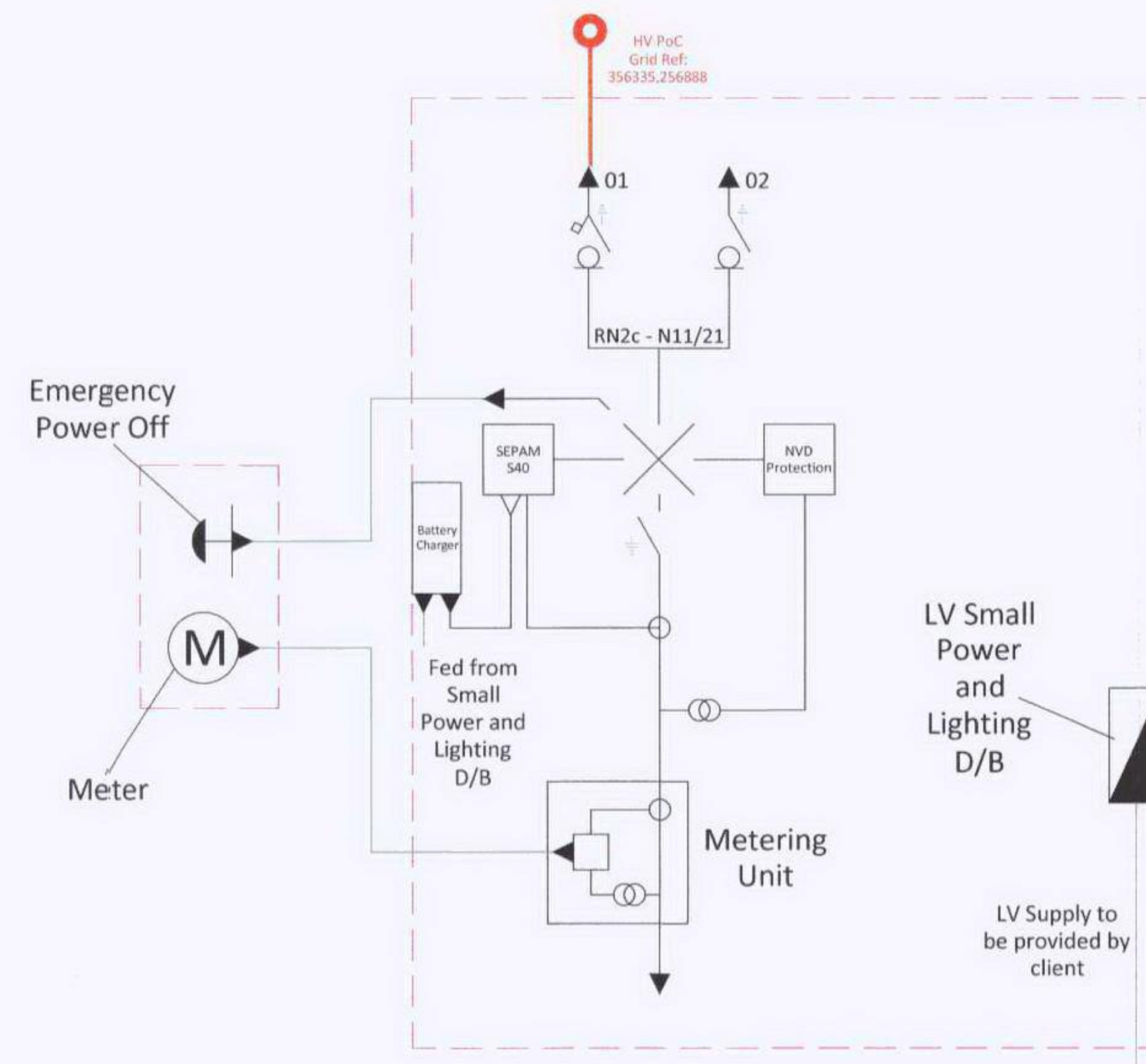


Trench Cross Section

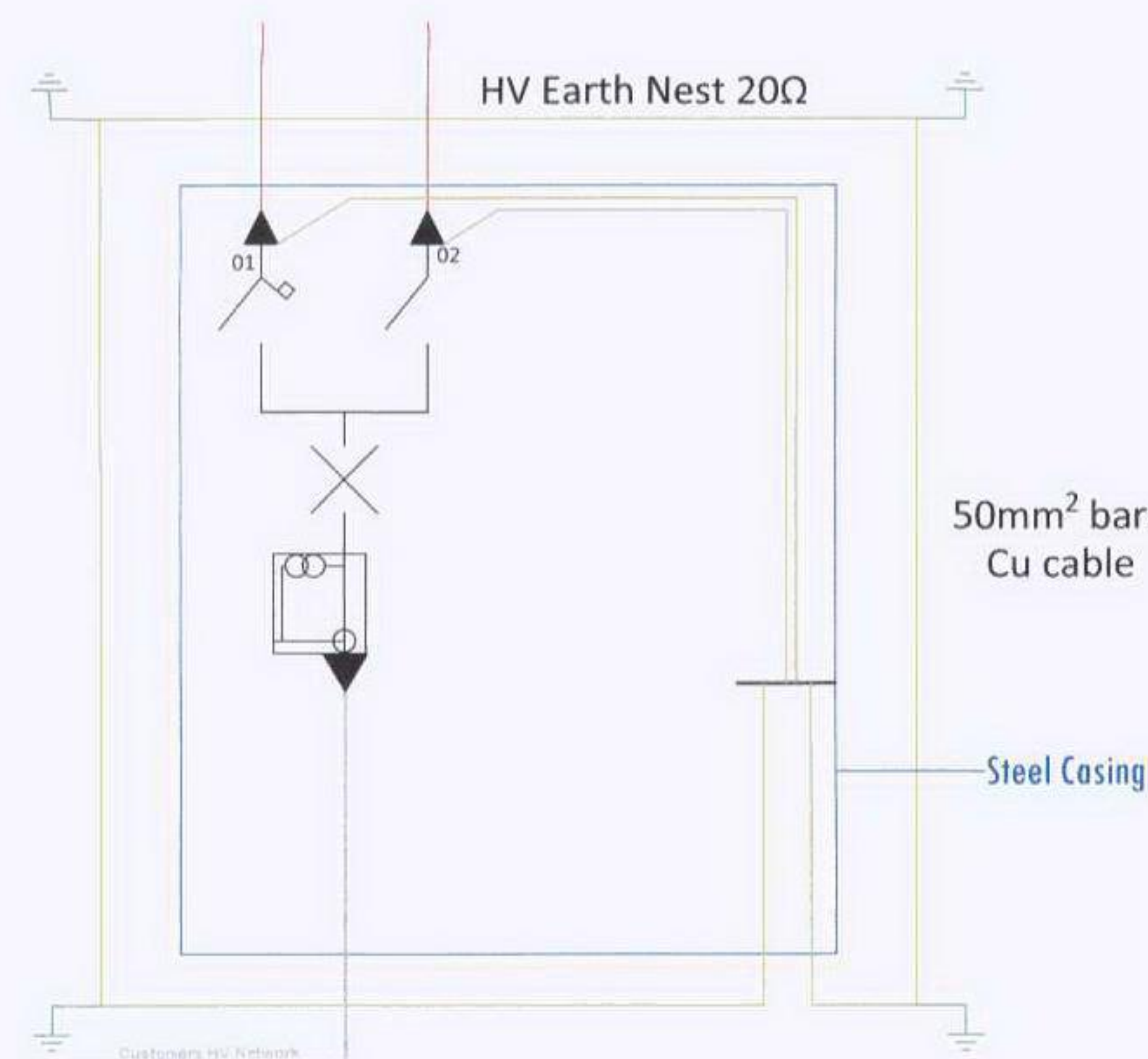
Material Specification

Material	Specification	Supplier	SAP Number / Standard
HV Cable	185mm² Al XLPE Triplex	Prysmian	HD 620 IEC 60502
HV Joints	185 - 185mm HV Straight Joint	Bs 7888	Tyco
Ducting	125mm Ducts	Polypipe	ENATS 12-24
Tape	Polythene Protection Tape/Tile	TW Engineering	ENATS 12-23
Housing	Substation Housing	Envico	-
Substation	RN2c - N11/21 + MU2 - M12 c/w Sepam S40, NVD Protection	Schneider	ENATS 35-1 ENATS 37-2 ENATS 41-36

Material Specification



Electrical Design



Earthing

Cable Installation Data				
Cable Type	Max Pulling Tension	Minimum Bending Radius (On Route)	Minimum Bending Radius (At Term)	Minimum Duct Size
185mm² Al XLPE Triplex	1665kgf	700mm	550mm	125mm

Cable Data

Project Scope N / 102648 / F

UK Power Solutions are to provide 1No. 300kVA HV metered export supply from Lower Buckland Farm. The above will be provided by the installation of a new HV metering substation with associated RMU & Metering unit housed in a GRP enclosure which will be connected by a tee'd arrangement to the local Central Networks overhead 11,000v network.

Point of Connection

The point of connection for this new supply will be made at 11,000v using 1No. 185mm² AL SAC XLPE/Tripexed cable at grid ref: 356626, 256494 via 1 No. HV pole terminations.

Supply Capacity

The ASC for the new connection is to be an import of 0kVA

There will be an export supply of 300kVA

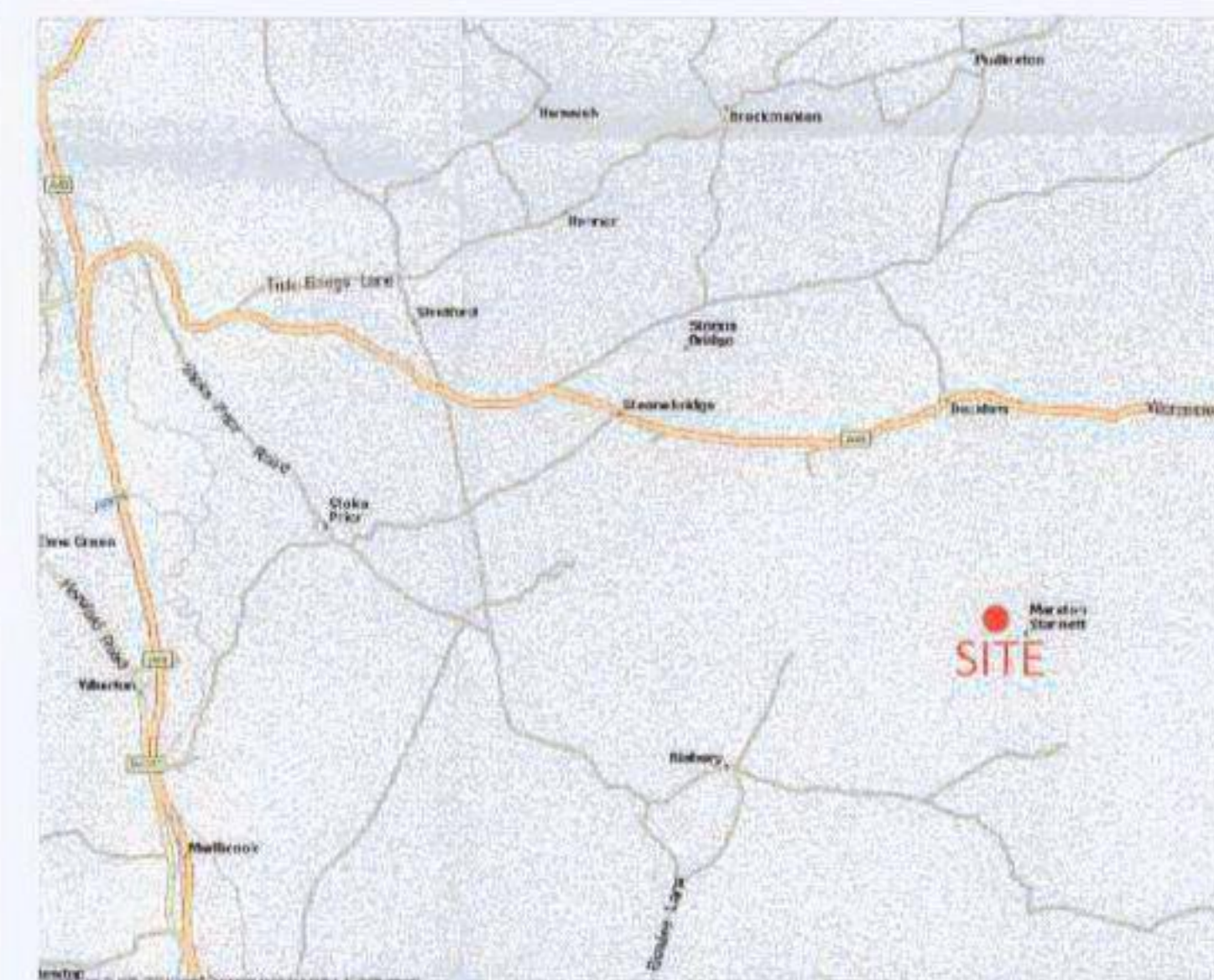
Supply exit points & metering

The supply exit point will be the out going terminals of the Central Networks HV metering unit and will be CT metered at High Voltage.

Project Notes

REV	AMENDMENT	DATE	BY
1	Substation Amendment	05/12/10	MO
2	Earthing Representing a Hot Site	15/12/10	MO
3	Small Power and Lightin & Battery Charger	15/12/10	MO
4	Design Approval	21/12/10	MO
5			
6			
7			
8			

UKPOWER SOLUTIONS



Site Address: Lower Buckland Farm, Docklow, Leominster, Herefordshire, HR6 0RU

Legend

(M)	Metering Point	↑	Unearthed Connection
X	Circuit Breaker	↓	Earthed Connection
	Earth Rod	—	HV Cable
NVD	NVD Protection	—	Existing HV Cable
ES	Earthable Switch	★	Star
EDF	EDF Metering Unit	△	Delta
○	HV Point of Connection	■	Distribution Board
CT	CT	VT	VT
Emergency Power Off			

HERET CHESHIRE COUNCIL
PLANNING SERVICES
DEVELOPMENT CONTROL
14 MAR 2011
To:
Ack'd:
File:
River View House
Bonds Mill Estate
Stonehouse
Gloucestershire
GL10 3RF

Client	Lower Buckland Farm				
Project	Lower Buckland Farm				
Title	Complete Design Plan				
Planning Engineer	Andrew Wright	Contact No.	07970481335		
Project Manager	David Richards	Contact No.	07818036427		
Drawn By	MO	Checked By	AW	Date	19/11/10
Scale	NTS	Sheet No.	1/1	Original Size	A1
Drawing No.	UKP331 - DWG800			Rev	4
Drawing Status	Design Approved				