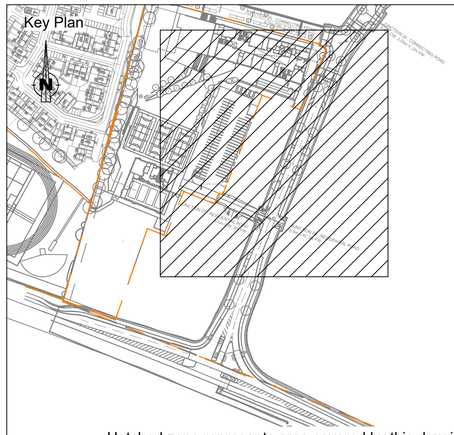
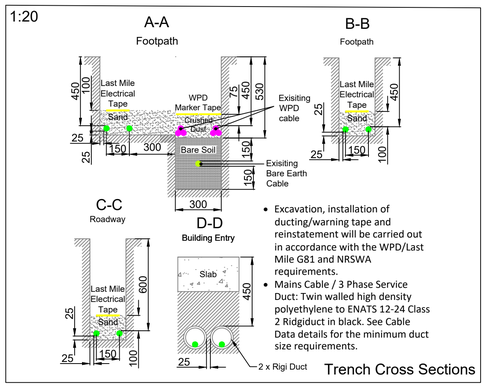


Hatched zone represents area covered by this drawing

Site Address: Locklands Parklands, Farnborough Road
Weston-Super-Mare, South West
BS247DP

Cable Installation Data			
Cable Type	**Max Pulling Tension**	**Minimum Bending Radius**	**Minimum Duct Size (ID)**
300mm² Al Waveform 3c	7000N	850mm	125mm

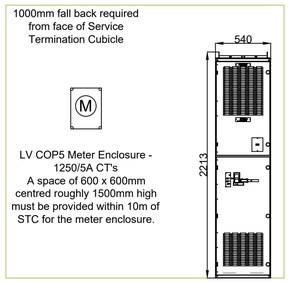
1:20



- Excavation, installation of ducting/warning tape and reinstatement will be carried out in accordance with the WPD/Last Mile G81 and NRSWA requirements.
- Mains Cable / 3 Phase Service Duct: Twin walled high density polyethylene to ENATS 12-24 Class 2 Ridgiduct in black. See Cable Data details for the minimum duct size requirements.

Trench Cross Sections

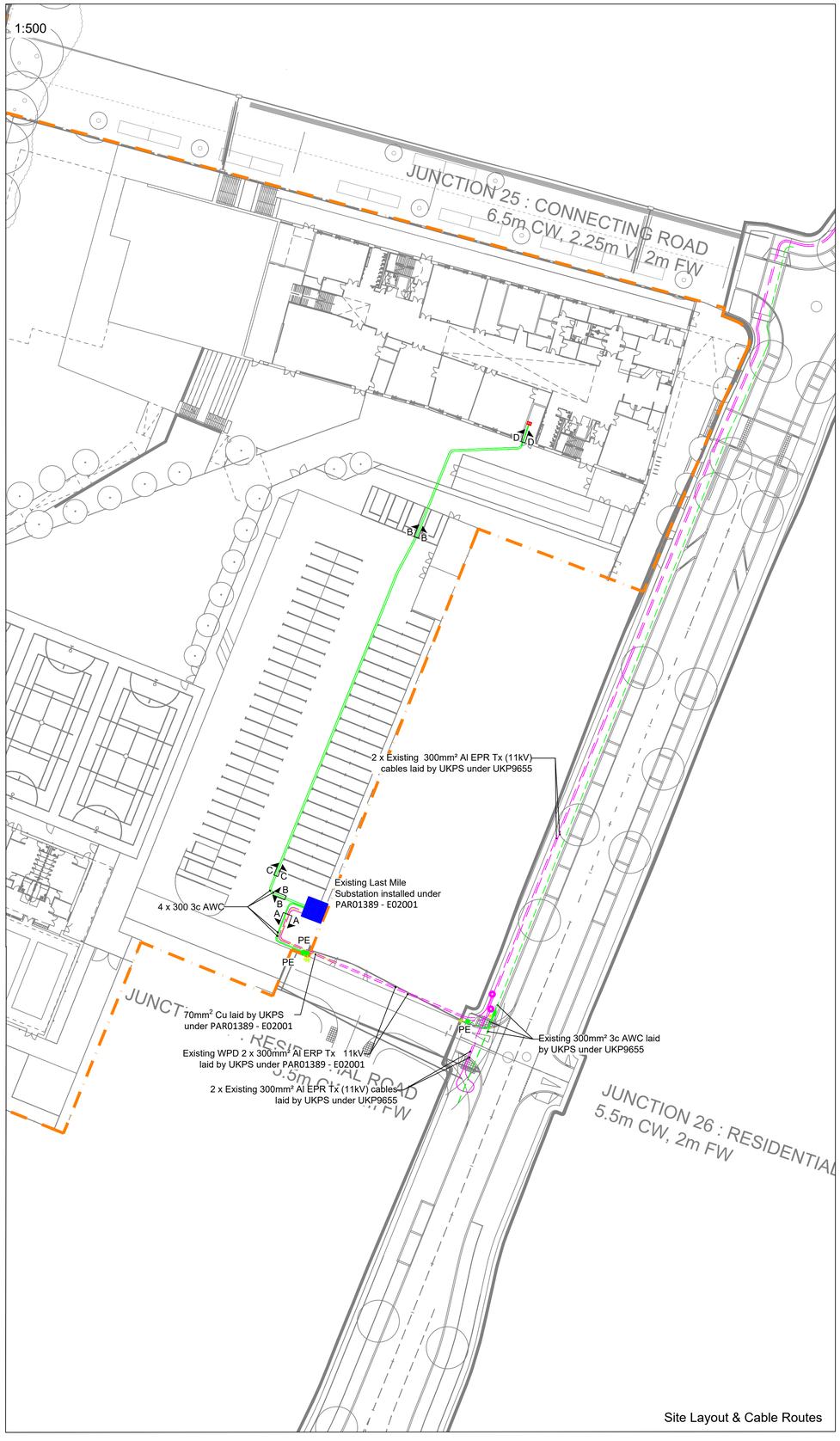
1:20



1250 A STC Dims (mm)	
Height	2213
Depth	388.5
Width	540

Service Termination Cubicle Detail

1:500

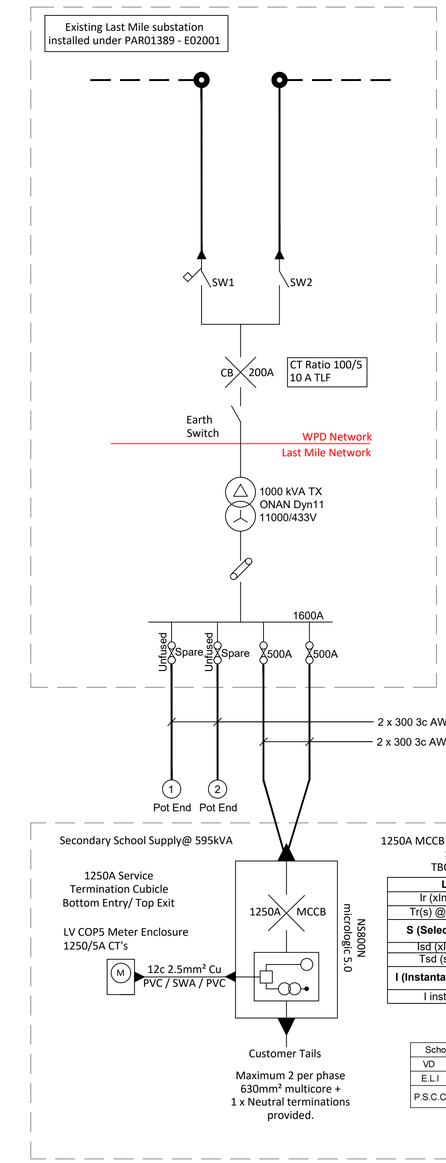


Site Layout & Cable Routes

Switchgear Schedule 1	
TX	251
HV	M84
LV	L154

Switchgear Schedule 2	
LV	L209

1:100



Important Note:

- The customer shall provide, install, own and maintain the cable from the Service Termination Cubicle.
- Customer cables shall be a type suitable for termination in the MCCB. This must be double checked with the UKPS Designer/Project Manager prior to any cable installation.
- Customer cables shall be selected and installed in accordance to BS7671.
- MCCB has a half size neutral.
- The maximum length of the cables will be determined by the need to ensure that the MCCB provides the required protection for the cables in the even of an earth fault.
- The customer shall advise UKPS of the number and size of LV tails.
- The customer shall provide physical protection for the cables between the ownership boundary and customer point of isolation in accordance to BS7671.
- It is the customer responsibility to ensure that the characteristics of the MCCB provide effective short circuit protection for the size of LV tails selected.
- The customer shall ensure that an LV fault at any point up to the customers first circuit breaker or fuse will trip the MCCB within five seconds.
- AWA cables are to be glanded at the customers end only and therefore a fully rated CPC is required as the N-E link is at the transformer.
- Any N-E link to be removed at customer LV switchboard.
- Stuffing glands used at iDNO MCCB.

Electrical Schematic

Legend	
	Site Boundary
	HV/LV Point of Connection
	Existing LV Cable
	New LV Cable
	Existing DNO Cable
	DNO Equipment
	Pot End (PE)
	Earthing
	Earth Rod
	Service Termination Cubicle (STC)

General Notes:

- WPD Ref: 4016472
- Last Mile Ref: ASSET025627
- For Project Scope and Material Specifications, please refer to Project Information Document - iDNO.
- It is the client's responsibility to ensure that any requirements of British Standards are met.
- Where it is necessary to install an electrical service termination under or in a main access/egress route within the property, then this shall be regarded as a "Protected Area" and as such, shall be constructed in such a way as to provide a minimum of 30 minutes fire protection.
- All external cut outs to have a suitable weather-proof enclosure provided by the Developer.

H&S Notes:

- Please be aware that underground cables exist on the site. It is important that all works comply with the requirements of the health and safety executive document HSG47 - "Avoiding Danger from Underground Services".
- Please be aware that overhead cables near site. UK Power Solutions shall comply with the latest edition of GS6 when working near or around overhead lines.
- Trees to be planted within a tree box, or suitable tree root protection to be installed alongside on-site excavations where cables are in proximity of proposed trees or other deep-rooted landscaping.

REV	AMENDMENT	DATE	BY
0	Preliminary Issue	10/03/22	JW

UKPS
UK POWER SOLUTIONS
The Utility Connection Company
River View House, Bonds Mill Estate, Bristol Road, Stonehouse, Gloucestershire, GL10 3RF
4th Floor, West World, West Gate, Ealing, London, W5 1DT
Suite 36, Genesis Centre, Birchwood, Warrington, WA3 7BH
ukpowersolutions.co.uk

Client: Kier Construction (Western & Wales) Ltd

Project: Locklands Parklands Secondary School

Title: Complete Design Plan - iDNO

Design & Planning Engineer: Kshitij Rai	Contact No.: 08452 577 105		
Project Manager: PM	Contact No.: PMCN		
Drawn By: JW	Checked By: PS	Date: 15/02/22	
Scale: As Shown	Sheet No.: 1 / 1	Original Size: A1	
Drawing No.: UKP11004 - DWG800		Rev: 0	
Client Ref.: --			

Drawing Status: For Design Approval