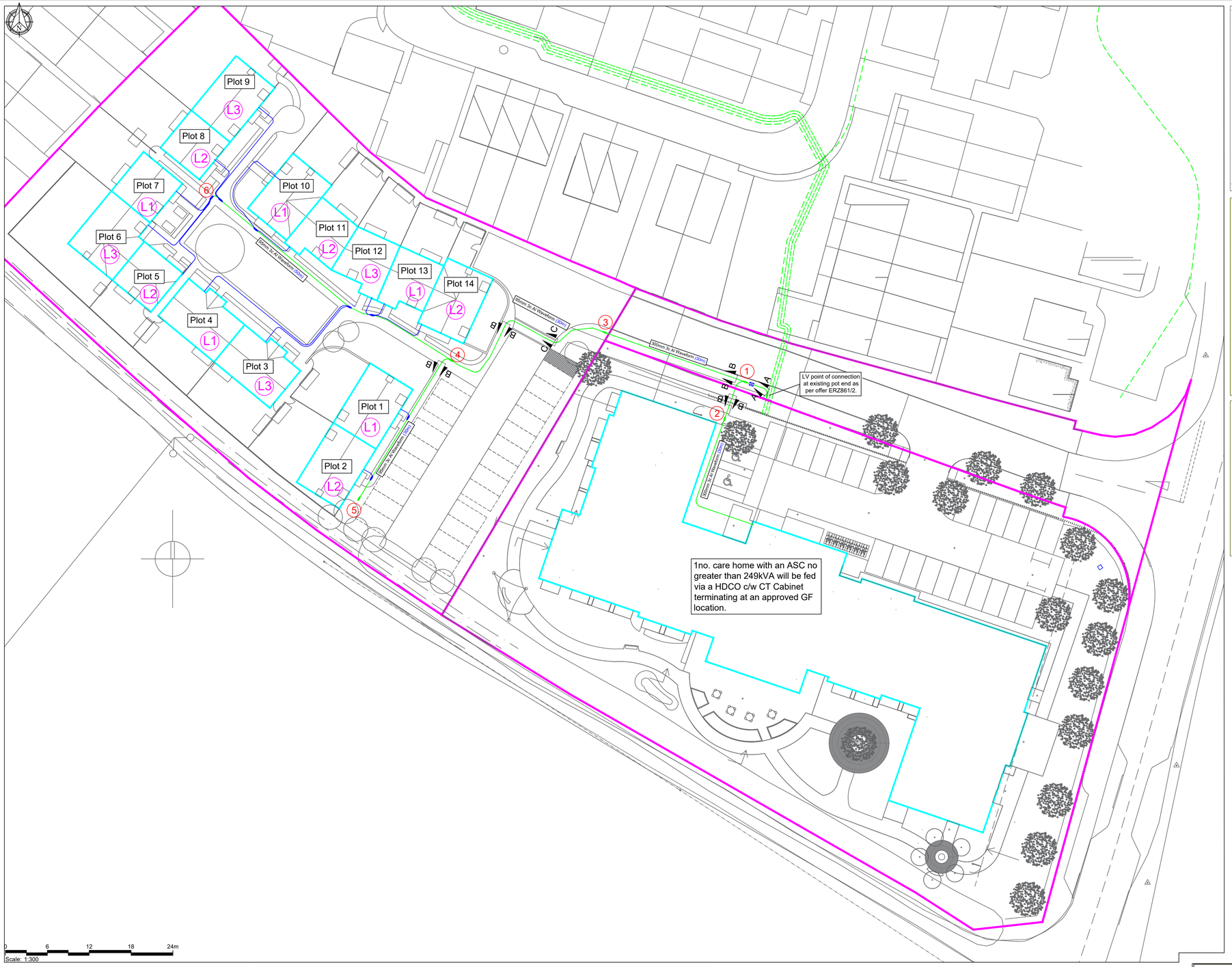
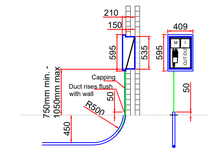


LEGEND

- Existing LV
- Proposed LV Mains
- Proposed LV Service
- Site Boundary/Phases
- Building Line
- Street Lighting 22/2



Overall size: 409mm (w) x 595mm (h) x 210mm (d)
Brickwork opening: 365mm (w) x 535mm (h) x 150mm (d)

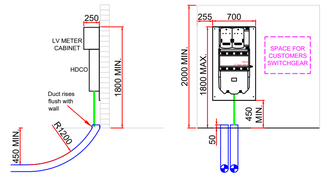
External meter box to be supplied by client

(Cables must not be routed through wall cavity)

Meter cabinet must be non-metallic

Available from most builders merchants and online

SINGLE PHASE SERVICE POSITIONS OUTDOOR
SCALE: NTS



600A METER ARRANGEMENT INTERNAL

Project overview

The provision of new LV metered supplies to serve the development at Sheppy Way, Iwade.

Supply Capacity / Load Calculation Basis

The ADMD for the site is 276 kVA based on a total of

14 residential properties @ 1.9kVA single phase
1 No Care Home supplies @ 249kVA three phase

All mains and sub mains have been sized to comply with cable thermal constraints on the basis of Summer Sustained ratings ducted.

Volt drop, Prospective Short Circuit Current (Ph-N), and ELI have been calculated for all key points on the system using WinDebut V3.1 and in accordance with the adopting networks Design requirements and the results shown. In all cases, the design complies with the max / min parameters stated in the design manual(s).

LV Point of Connection

The points of connection is at LV as advised by SSE in offer ref ERZ861/2 on 18th November 2020 and marked up GIS plan with the same date.

LV Cable

The LV mains cable will be 300mm^2 & 95mm^2 3 core & Al waveform cable.

All LV mains cables will be laid direct unless otherwise stated. There shall be tile/caution tape to ENATS 12-23 installed as shown on cable sections detailed on this drawing.

Material specification

See DPFOR02 for detailed materials specifications.

Mains Ducts

Where used, cable ducts to be black twin walled corrugated ridgiduct to ENATS 12-24 embossed "electric cable duct" on opposing sides. Sizes are 150mm internal diameter unless otherwise stated in cross sections.

Service Ducts

Where used, services cable ducts to be black twin walled corrugated ridgicoil to ENATS 12-24 embossed "electric cable duct" on opposing sided. Size 32mm ID (37mm OD).

Supply Exit Points & Metering

The supply exit points for the 14 plots shall be the outgoing terminals of the single phase cutouts located within the external meter box at each property.

The supply exit point forthe Care Home shall be the outgoing terminals of the heavy duty cutout located within the ground floor plant room.

Earthing

All properties will be supplied with TNC-S (PME) earthing system.

Civil Works

All on-site civil works associated with on-site cabling to be undertaken by others in accordance with the design supplied by HVSS.

All off-site civil works associated with cabling to be undertaken by HVSS/.

Pulling Tensions

300mm^2 3c Al Waveform	400kg
95mm^2 3c Al Waveform	200kg
35mm^2 1c Al XLPE/PVC concentric	manual

Minimum Bending Radii

300mm^2 3c Al Waveform	950mm
95mm^2 3c Al Waveform	650mm
35mm^2 1c Al XLPE/PVC concentric	115mm

Rev	Amendment	Date	Des	Drw	Chk	App
0	Original Issue	11/12/20	RJB	RJB	AB	AB

APPROVED FOR CONSTRUCTION

HIGHVOLTAGE SYSTEMS&SERVICES

High Voltage Systems & Services Ltd.
Forest House
2 Riley Road
Telford Way Industrial Estate
Kettering NN16 8NN
TELEPHONE: 01604 781 107

Client: Frontier Estates

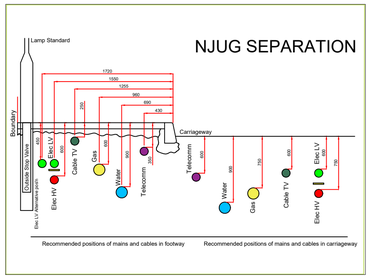
Project Name: Sheppy Way, Iwade

Drawing Title: Cable Route Plan

Site Address: Sheppy Way, Iwade, Sittingbourne, ME9 8GN

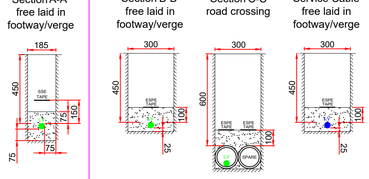
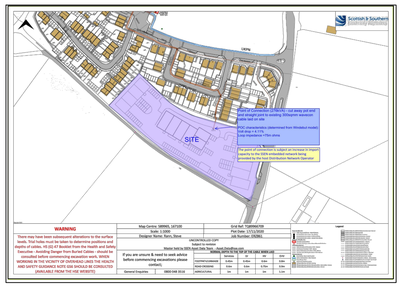
Design Engineer	Mobile
Russ Burns	07807 232 464
Project Manager	**Mobile**
Rachel Nead	07719 512 511

IDNO Ref.	Scale @ Size	Sheet
ESPE031660	1:300 @ A1	1/1
DNO Ref.	**Project No.**	**Drawing No.**
ERZ861/2	P2021310	010



SSE
178mm dia. (150mm I.D) twin walled black rigiducts embossed "electric cable duct".
SSE marker tape manufactured to ENA TS 12-23 will be installed over all SSE adopted mains LV cable. The tape will be placed 150mm directly above the cable or duct.

ESPE
150mm dia. (125mm I.D) twin walled black rigiducts embossed "electric cable duct".
ESPE marker tape manufactured to ENA TS 12-23 will be installed over all LV mains cables, service cables, ducts and service tubes. The tape will be placed 100 mm directly above the cable or duct.

Backfill Specification:
The trench sections show the depths to the top of the cable, duct or service tube and minimum widths for various cable combinations. Ensure the bottom of the trench is free of sharp stones & other materials that may damage the cable.
Min 75mm depth of 3mm to dust crushed stone bedding and blinded to marker tape level.
Trench should also be backfilled to marker tape level above duct, before laying correct marker tape.

SSE ADOPTED ◄► ESPE ADOPTED