GRIDSERVE sustainable energy

NORTH

GENERAL
This drawing is to be read in conjunction with the standard drawings and relevant details by Gridserve

Installation to comply with all applicable standards and regulations.

Below ground and concrete detail by structural engineer (SE).
Any discrepancy in the drawings or specification to be brought to the attention of the Envevo project manager (PM) for further instruction.

APPROVED SITE PLAN AND SURVEY

LAYOUT DERIVED FROM
ENVEVO FEASIBILITY PLAN ENV2269- E Rev 3

MALCOLM HUGHES SURVEY - 57811 Utility survey (26-10-21)

If ground conditions appear to be unsuitable structural engineer to be consulted.
Contractor must survey and scan all areas prior to works commencing to ensure no unidentified hazards. Any temporary diversions or disconnections to be agreed with Envevo PM prior to works. All to be reinstated/tested/certified as required upon completion of works.

SITE PREPARATION
Allow for complete site preparation to areas of construction.
All levels to be maintained as existing and/or as per drawings. Any 'soft spots' discovered to be reported to PM/SE for further assessment and instruction.

CHARGER UNIT & BASE

The charger bases are to be a NAL access chamber, socket & adapter plate system (adapter plate to suite ABB Terra High Power Gen III Charger) and Installed to manufacturers detail and instructions.
Bases for the chargers will be installed at the correct level to suit adjacent finishes and will have to be covered/ capped to ensure safe and suitable level access for pedestrian and vehicular traffic ensuring no trip/slip hazards are created in an expansion scenario. Upon expansion works, covers must be easily removed in order for the charger.

POWER PACK UNIT & BASE

The power pack bases are to be a NAL access chamber, socket & adapter plate system (adapter plate to suite ABB Terra High Power 175) and Installed to manufacturers detail and instructions. Bases for the power packs will be installed at the correct level to suit adjacent finishes and will have to be covered/ capped to ensure safe and suitable level access for pedestrian and vehicular traffic ensuring no trip/slip hazards are created in an expansion scenario. Upon expansion works, covers must be easily removed in order for the charger.

HV ENCLOSURE AND BASE

DNO substation installed on concrete base to standard details.

WILSON SUBSTATION/INTEGRATED LV FP CABINET
Concrete base as per Marks Heeley SE detailed design provided by Envevo

SCADA / Griderve EQQ
Pre Cast Concrete base details to be provided by Envevo

CHARGING BAY SURFACING
Existing tarmac finish to be plained off and new wearing coiurse applied to ensure good quality line markings,unless the bays are already surfaced in concrete / block pavers.
Inspect and repair as required and ensure thorough clean upon completion.

All ductwork trenching to Envevo details

Tarmac finish and road build up to match existing

All lining to be white thermoplastic and include charger symbols as indicated.

DUCT ACCESS CHAMBERS/DRAW PITS
Use NAL STAKKAbox module installed to manufacturers instruction.
Frames and covers to be galv steel suitable for vehicular traffic D250 spec

BOLLARDS

190A STAINLESS STEEL BOLLARDS .
Manufacturer: Architectural Street Furnishings or Equivalent
- web: www.asfco.co.uk
- tel: 01484 401414 .
- Product reference: ASF 5002/114.

Material: Grade 316 Stainless steel.
- Finish: Manufacturers standard - Satin brushed.

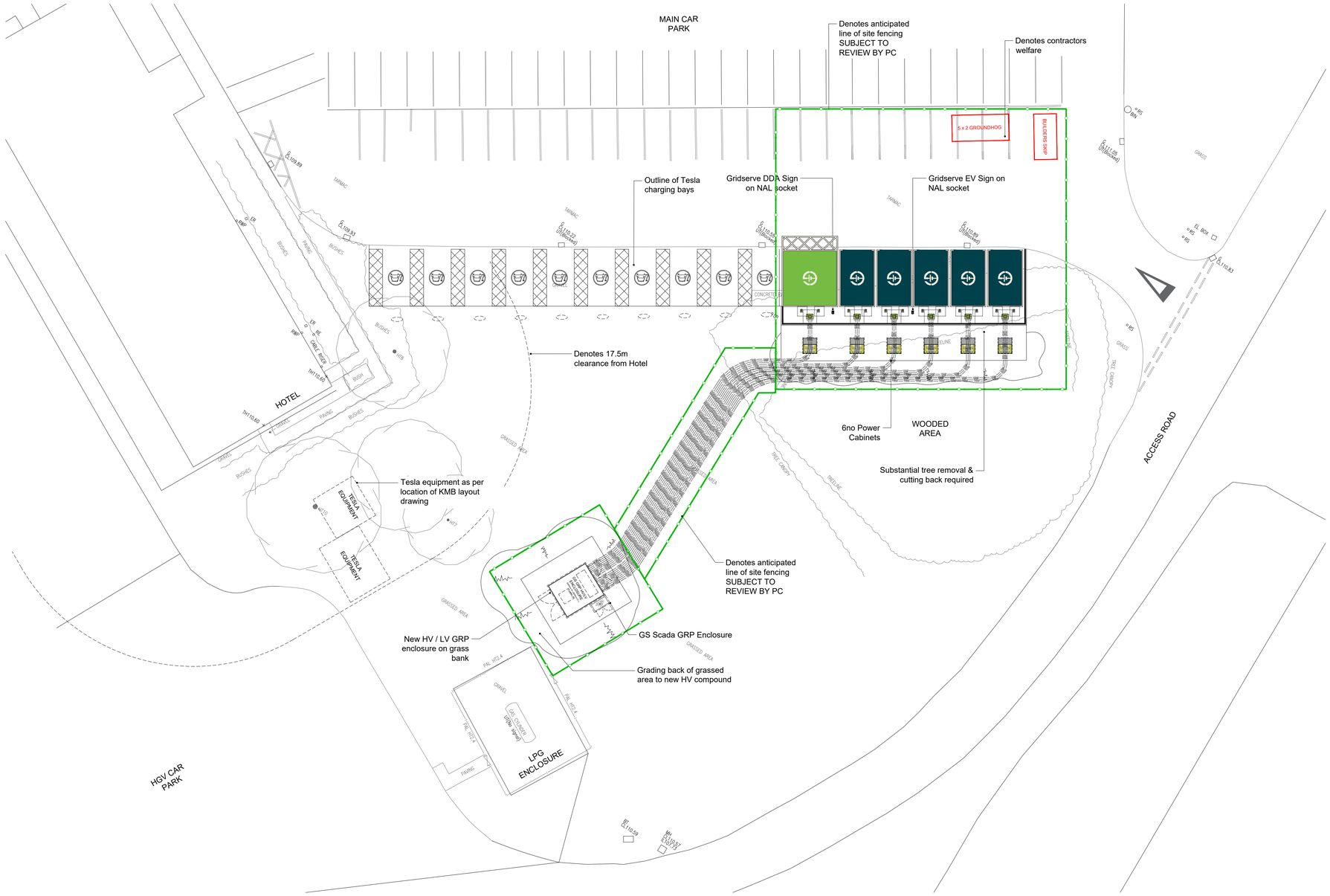
Height above ground: 1000mm. Product height 1470mm as standard.
Sectional size: 114mm diameter.
Top: Slightly domed.
Special features: 1 x green reflective strip (RAL 6018) that conform to all relevant legislation and installed to manufacturers specification.
Include for the supply and installation of NAL RS115 retention socket to manufacturers instructions.

SIGNAGE
Site specific requirements. See plan for detail.

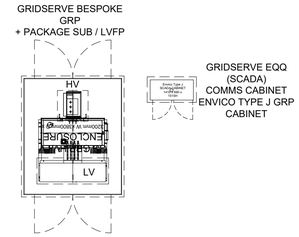
Signage (by signage sub-contractor) to be fixed to posts provided and installed by principle contractor. Posts to be 3800mm (76mm diameter) galvanised steel with grey cap. Sign to be 850mm x 850mm (underside of sign to be 2300mm above finished ground level).
Posts to be set a minimum of 600mm below ground in appropriately sized NAL Non-Illuminated Retention Sockets (RS115) to contractor design.

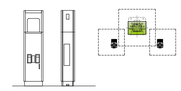
LIGHTING/CCTV
Site specific requirements. See plan for detail if required.

LANDSCAPING
Where Applicable all soft ground and planting is to be reinstated utilising retained topsoil and with planting to match existing.



STANDARD HV LV ARRANGEMENT & EQUIPMENT





CHARGING POST
ABB - TERRA HP GEN III
Unit Size 590mm x 425mm x 2463mm H

CHARGING CABINET
ABB - Terra HP 175
Unit Size 1170mm x 770mm x 2030mm H

0 10 20
SCALE - METRES - 1:200 @ A1

REV	DATE	DESCRIPTION	DRAWN/CHECKED
C	22.09.2023	DNO DETAILS AND LOCATION REVISED.	ACM/MBH
B	30.08.2023	NAL SOCKET SPEC REVISED.	ACM/MBH
A	12.07.2023	CHARGER BAY DESIGN SPEC REVISED.	LBM/ACM

REVISION NOTES

PRELIMINARY

mbh

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CLIENT
envevo

PROJECT
MOTO BIRCH WEST
M62 WESTBOUND JCT 18/19
HEYWOOD, LANCASHIRE
OL10 2QH

DRAWING TITLE
GENERAL SITE LAYOUT
-

DRAWN BY	DATE	SCALE	PAPER SIZE
PSB	28.10.21	1/200	A1

CHECKED BY	DRAWING NUMBER	REV.
MBH	ENV2269-100	C

DRAWING NOTES

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