

Notes:

- This drawing is to be read in conjunction with all drawings and specifications.
- The Contractor shall refer to the Pod Point installation pack to ensure that the requirements are understood.
- The contractor shall be responsible for the provision of the sub-main cabling from the MSDB to the isolator located within the electrical Cupboards/feeder pillars. Final termination of cabling into Pod-Point equipment shall be undertaken by Pod Point.
- The contractor shall be responsible for supply and install of the containment system and equipment to complete the installation to comply with BS7671 18th Edition and amendments.
- The installation shall be offered to Pod Point to review during the installation programme and for sign off at the end of the installation, prior to hand-over.
- All ducting to be provided with draw wires.
- Car charging distribution boards shall be supplied and installed by Pod-Point, including all termination of cable into these boards.
- The contractor shall provide Wifi Hub, to enable connection from the charging station to the Pod Point distribution boards.
- All post mounted chargers to be supplied with barrier protection.
- All control cabling to be wired in screened 7-2-2c Def Stan.
- Post mounted 'Twin' charging points require a concrete base of 600mm(W) x 600mm(L) x 300mm(D).
- Post mounted 'Single' charging points require a concrete base of 600mm(W) x 400mm(L) x 300mm(D).
- 100Ø Below ground duct for electric vehicle charging point from position of house consumer unit.

Legend:

- SP ● Post mounted Single Electric Vehicle Charging (Apartments / Visitor) Wired from feeder pillar
- TP ●● Post mounted Twin Electric Vehicle Charging (Apartments / Visitor) Wired from feeder pillar
- TP ●● Post mounted Twin Electric Vehicle Charging (House / Visitor) Wired from feeder pillar
- SP ● Post mounted Single Electric Vehicle Charging (House / Visitor) Wired from feeder pillar
- SP ● Post mounted Single Electric Vehicle Charging (House) Wired from House
- PC ☒ Pull Chamber (450(L) x 450(W) unless otherwise specified)
- Underground cable duct (Ø100 mm unless otherwise specified)
- Private Street Lighting Column. Design by others. Column to be fed from LV mains. Exact positions please refer to Ardent and MMA drawings
- Bollard Light. Design by others. Bollard to be fed from LV mains and sub-metered in feeder pillar. Exact positions please refer to Ardent's drawings
- Wifi Hub/3G/4G (Located within feeder pillar unless otherwise stated by Pod Point)

Security	Secure Data encryption HTTPS
	Wifi 802.11b/g/n @ 2.4GHz
	Powerful Crypto Engine for fast, secured WLAN Connection with 256-bit Encryption
	TCP on Port 443
Mode	Access Point (only for setup)
	Station
Channel Mask	1 to 13
	Scan RSSI Threshold
-95dB	
Station Addressing Scheme	
Dynamic	

Array Charging Distribution Board

- Fully assembled Three-Phase system includes: 40A 2-pole RCBO's, 3 x current clamps, 1 x three phase circuit breaker.
- Up to 9 x Pod Point EVCP's per phase (for 100A supply). See table below for different supplies/amount of EVCP's allowed.



Post Mounted Twin Electric Charging Point (Pod Point Solo 3 Single/Double)

Barrier protection detail for Post Mounted Charging Point

REV	DESCRIPTION	DATE	NAME
C01	Construction Issue	06.03.24	ML
T02	Updated as per client's comment	07.09.23	ML
T01	Tender Issue	07.08.23	ML

1 Site Wide Electric Vehicle Charging Layout

Scale: 1 : 250

Ducting Bending Radius Table

Duct Size	Bending Radius	
	BCW	Others
90Ø	15D-25D	12D
100Ø	15D-25D	12D
125Ø	15D-25D	12D
150Ø	15D-25D	12D
200Ø	15D-25D	12D

Safety, Health and environmental information unusual significant hazards

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement, in addition to the hazards/risks normally associated with the type of work detailed on this drawing note the following:

Construction

- Working at high height to install all new high level services shall be managed safely, using the correct equipment.
- During the creation of new builderswork holes for cables to pass through workers should be using the correct PPE equipment.
- The use of portable tools should be done through 110V supplies only

Maintenance/cleaning

- The installation of MEPH equipment has been coordinated during the design stage to ease maintenance and avoid unnecessary risks.

Operation

- There are no unusual operation risk identified.

Example of Podpoint's distribution boards within the feeder pillars

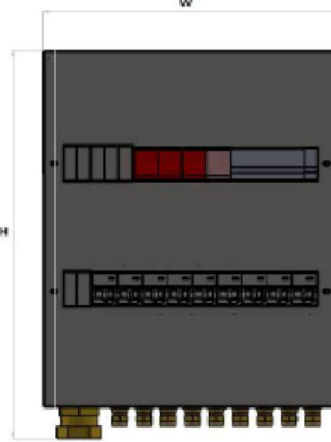


Fig 3 Front of DB

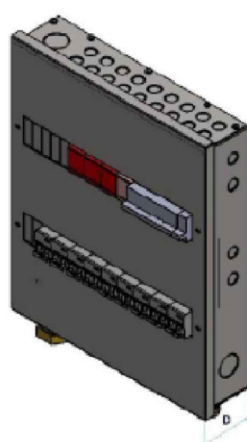


Fig 4 Side of DB

Details of External Street Cabinet housing the EVC & bollard electrical equipment



CODE	Width (mm)	Depth (mm)	Height (mm)
ET5	925	360	1125
ET9	1400	660	1515
ET13	2000	500	2000

Maximum supplies available for Array System

Max Supply	1-ph system	3-ph system
Amount of 7kw chargers per system		
40A	3	9 (3X3)
60A	5	15 (3X5)
80A	7	21 (3X7)
100A	9	27 (3X9)

Dimensions of Array Distribution Boards

System	Height (mm)	Width (mm)	Depth (mm)
Single Phase	513	417	100
Three Phase	DB1: 513 DB2: 513	DB1: 417 DB2: 417	DB1: 100 DB2: 100

Feeder Pillar Electric Supply Cabinet

REF	Cutout Required	Phase	No of 7kw EVC
#1	100A (69kva)	3-Phase	22 (27 Max)
#2	100A (23kva)	1-Phase	9 (9 Max)
#3	100A (23kva)	1-Phase	8 (9 Max)
#4	100A (23kva)	1-Phase	N/A- Bollard Lights

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STATUS: Construction Issue

PROJECT NUMBER /TITLE:
J6661 - Dee Road, Reading

DRAWING TITLE:
Site Wide Electric Vehicle Charging Layout

DATE /	04/08/2023	SCALE	As indicated	1:250@A1
DRAWN BY	ML			
DRAWING NUMBER	6661-E-ZZ-00-100-60-600			REV C01