Design & Access Statement

Fitting of an Electric Vehicle Charge Point to:

The Lodge
1 Curzon Park North
Chester, Cheshire
CH4 8AP

Planning Application Ref.: PP-12901116

Date: 9th April 2024
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Purpose Statement & Objective

Project: Installation of an Electric Vehicle Charging Point
Location: The Lodge, 1 Curzon Park North, Chester, CH4 8AP
Building Status: Grade II Listed, c.1840

The purpose of this Design and Access Statement is to outline the proposed installation of an APEX-7.3 Untethered Electric Vehicle charging point at The Lodge, 1 Curzon Park North, Chester. This building, constructed around 1840, is of significant historical interest, being listed as Grade II. The statement aims to ensure that the installation is sympathetically planned to respect and preserve the architectural integrity and heritage value of the property, while also enhancing the functionality of the building in line with modern sustainability practices.

Justification

As societal move towards sustainable transport options accelerates, the need for accessible electric vehicle charging infrastructure becomes increasingly important. The proposed installation seeks to provide the residents of The Lodge with a modern amenity that supports the shift to electric vehicle use without compromising the visual or structural integrity of the historic building. Further justification includes:

- Preservation of Architectural Integrity with Modern Needs: Installing an EV charging point demonstrates a commitment to preserving the historical and architectural integrity of the building while adapting to contemporary needs. The design and installation can be undertaken in a way that is sympathetic to the building's period features, ensuring that any interventions are reversible and non-invasive. This approach allows the building to maintain its historical value while accommodating modern technology.

- Sustainability and Environmental Responsibility: As climate change concerns grow, there is a pressing need to reduce carbon emissions and promote sustainable practices. Encouraging the use of electric vehicles by providing charging infrastructure is a significant step in this direction. By supporting EV use, listed buildings can play a role in this essential environmental transition, aligning historical preservation with ecological sustainability.

- Enhancing Property Utility Without Compromising Heritage: The addition of an EV charging point increases the utility and attractiveness of the property, making it more appealing and functional for residents or users without compromising its heritage. This balance between utility and preservation can enhance the property’s value and usability.

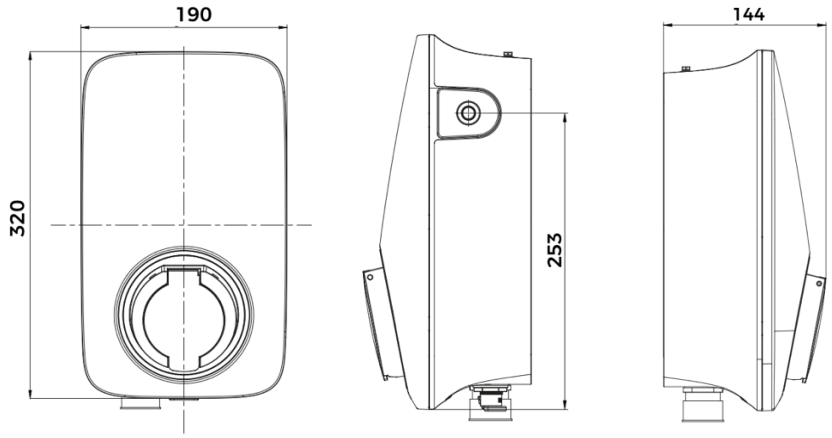
- Regulatory and Policy Support: Government policies increasingly support the transition to electric vehicles, including mandates and incentives for EV charging

infrastructure. Integrating such facilities into all types of properties, including listed buildings, aligns with broader national and local government objectives aimed at reducing greenhouse gas emissions and promoting renewable energy sources.

- Visual Discretion and Aesthetic Integration: The installation will be designed to minimise visual impact, using colours and materials that blend with the existing structures. By situating the charging station discreetly and using design elements that complement the building's aesthetics, the visual integrity of the site can be preserved (as detailed within the Design Principles and Aesthetic Sympathy section).

Design Principles

Minimally Invasive: The design will ensure that the installation impacts the existing structure as little as possible, using non-invasive techniques and positioning the charging point discreetly. Dimension of the proposed unit are (millimetres):



Full information and facts relating to the charging unit design can be found in Appendix A

Aesthetic Sympathy

The equipment will be chosen for its aesthetic neutrality, blending with the existing building materials and colours as closely as possible. The proposal is to have a Ghost White charging point to be in keeping with The Lodge paintwork as per the imagery in Photograph 1.

Photograph 1: Image of Apex – 7.3 Electric Vehicle Charging Unit

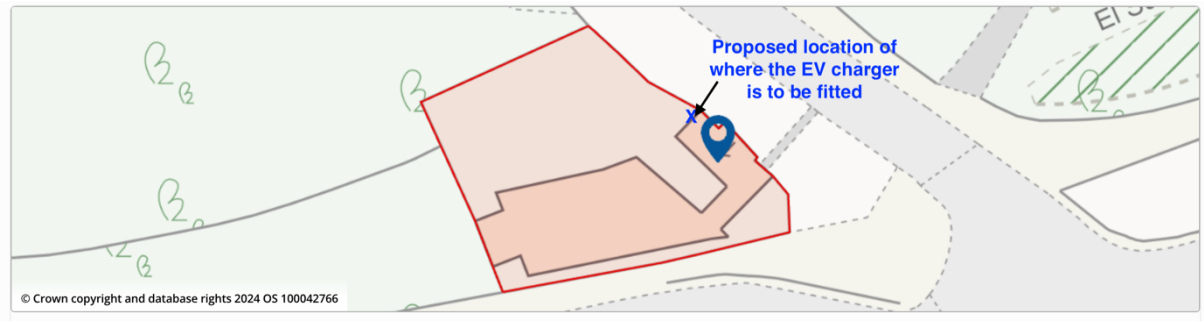
Accessibility

The charging point will be positioned to ensure easy access for users while maintaining the aesthetic and historical integrity of the site.
This statement will detail the rationale behind the choice of location, design, and technology for the EV charging point, assess the impact of these choices on both the heritage of the building and its accessibility, and propose measures to mitigate any potential adverse effects.

The proposed location is that of the kitchen wall within the grounds of The Lodge. The charging point will not be visible from the road and can only be seen whilst in the grounds of the property. The red rectangle in Photograph 2 shows the proposed charging point location with Image 1 showing where within the property boundary it will be positioned.

Photograph 2: Proposed location of the charging unit

Image 1: Site Boundary and Location Plan



Reversible Changes

All alterations will be reversible, ensuring that the installation can be removed in the future without leaving permanent marks or alterations on the historical fabric of the building.

Conclusion

This Design and Access Statement will demonstrate a commitment to preserving the historical significance of The Lodge while embracing necessary advancements in environmental sustainability and transport technology. The aim is to achieve a balance that respects the past and embraces the future, ensuring that The Lodge remains both relevant and functional in a changing world.

Appendix A: Fact Sheet for Proposed Electric Vehicle Charge Unit

APEX-7.3

PROJECT EV

Fast AC Single Outlet 7.3kW Tethered & Untethered Chargers

Pro Earth Pen Fault Protection

Featuring built-in pen fault protection as standard, our pro earth APEX EV charger eliminates the need for an earth spike upon installation, or carry out any costly ground-works.

WIFI & Bluetooth Compatible

The APEX features multiple connection options including WIFI, Bluetooth and 4G connectivity. Providing seamless & wireless communication access for your EV charger.

Intelligent Solar

Being fully solar compatible, utilise the power of the sun with APEX. Take advantage of green, solar energy by using the sun to power & charge your vehicle.

Intelligent Dynamic Load Balancing

With dynamic load balancing the APEX EV charger is able to intelligently adjust how much power it draws, allowing it to never draw too much power, but always operate at a happy optimum.

5 Year Warranty*

With a market-leading 5-year warranty, APEX gives you the peace of mind, protection, and guarantee of high-quality after-care services for your EV charger.

Introducing a World of Colour

Racing Green | Ghost White | Nitrous Blue

Black Obsidian | EV Steel | Cherry Red

*APEX-7.3 chargers are 'EV Steel' colour as standard. Colour variations of the APEX-7.3 charger are available Q1 2024, and are subject to availability.

The APEX Smart App Control Everything

- Start, stop, & monitor your charging activity with one app.
- Prioritise off-peak charging.
- Manage and add multiple charge points to one master account.

Download the APEX App by Project EV, for smart app EV control. Available on both the Google Play and App Store.

Please Note - APEX-7.3 Datasheet [V1.11] - Information correct as of 10/23

*APEX 5 year warranty is subjected to terms and conditions

APEX-7.3

7.3kW Tethered & Untethered - Technical Specifications

PROJECT EV

Charge model to be fitted

	APEX-7S-T / APEX-7S-T-4G Tethered	APEX-7S / APEX-7S-4G Untethered
Input		
Wiring Scheme	1P+N+PE	1P+N+PE
Voltage	230Vac, ±20%	230Vac, ±20%
Maximum Current	32A	32A
Frequency	50/60Hz	50/60Hz
Output		
Voltage	230Vac, ±20%	230Vac, ±20%
Maximum Current	32A	32A
Rated Power	7.3kW	7.3kW
User Interface & Control		
Connector Type	Type 2 Cable	Type 2 Socket
Cable Length	5m	N/A
RFID Reader	Mifare ISO/IEC 14443 A	Mifare ISO/IEC 14443 A
Start Mode	Plug & Play/ RFID Card/ App	Plug & Play / RFID Card / App
Communication		
WiFi	Yes*	Yes*
Bluetooth	Yes	Yes
LAN	Adapter Q1 2024	Adapter Q1 2024
4G	4G on APEX-7S-T-4G Only	4G on APEX-7S-4G ONLY
OCPP	OCPP 1.6 JSON, OCPP 2.0 Optional (Coming Soon)	OCPP 1.6 JSON, OCPP 2.0 Optional (Coming Soon)

*Range capability up to 30m. Dependent on environment and charger location/surroundings.

Environment		
Installation	Wall-Mount / Post-Mount	Wall-mount / Post-mount
Operating Temperature	-30˚C ~ 50˚C	-30˚C ~ 50˚C
Operating Humidity	5% ~ 95% No Condensation	5% ~ 95% No condensation
Operating Altitude	≤2000m	≤2000m
Mid Metering / CT	EN50470-1 & EN50470-3 Class B MID approved Meter (pre configured) (CT Clamp and Meter Included)	
Safety		
IP Protection Rating	IP65	
IK Protection Rating	IK08	
Residual Current Detection	Integral Type A RCBO / AC 30mA / DC 6mA	
Over Current Protection	✓	
Residual Current Protection	✓	
Pro Earth Pen Fault Protection	✓	
Surge Protection	✓	
Over Voltage protection	✓	
Under Voltage Protection	✓	
Over Temperature Protection	✓	
Under Temperature Protection	✓	
Certification	CE, UKCA	
Certification Standard	EN/IEC 61851-1: 2019, EN/IEC 61851-21-2: 2021	
Dimension And Weight		
Product Dimension	320*190*144 mm	320*190*144 mm
Product Weight	5.6kg	2.4kg
Product Colour Options*		

*APEX-7.3 chargers are 'EV Steel' colour as standard. Further colour options are available upon request, subject to availability.

Mounting & Accessories		
Floor Pole	Opt. APEX-SPOST	Opt. APEX-SPOST