

**Welcome** to our “e-REW Express”. Under the EV-charging at Home Subsidy Scheme (“EHSS”) launched by the Government, the consultant employed by the applicant of EHSS shall liaise with HK Electric for feasibility assessment relating to the power supply and location of meter boards for Electric Vehicle Charging-Enabling Infrastructure (“EVCEI”). In this issue of “e-REW Express”, we will briefly share some good practices for the preparation of the feasibility assessment that may speed up our review process.

If you have any suggestions, please send an email to us via [mail@hkelectric.com](mailto:mail@hkelectric.com) or contact our Customer Installation Department on 2887 3455.

## Good Practices in the Preparation of Feasibility Assessment under EHSS

1. **Understanding Relevant Technical Requirements Before the Design of EVCEI**
  - a. The EVCEI shall comply with HK Electric’s Supply Rules, the Electricity (Wiring) Regulations and the associated Code of Practice (CoP), and other relevant Government ordinances/regulations/guidelines.
  - b. For the metering interfacing requirements, please refer to Chapter 5 of HK Electric’s [Guide to Connection of Supply](#).
  - c. For the requirements of the Tariff Meter Communication (TMC) and the meter cubicle/enclosure, please refer to [e-REW Express – December 2020 Issue](#).

2. Providing Adequate Power Supply Capacity Estimate



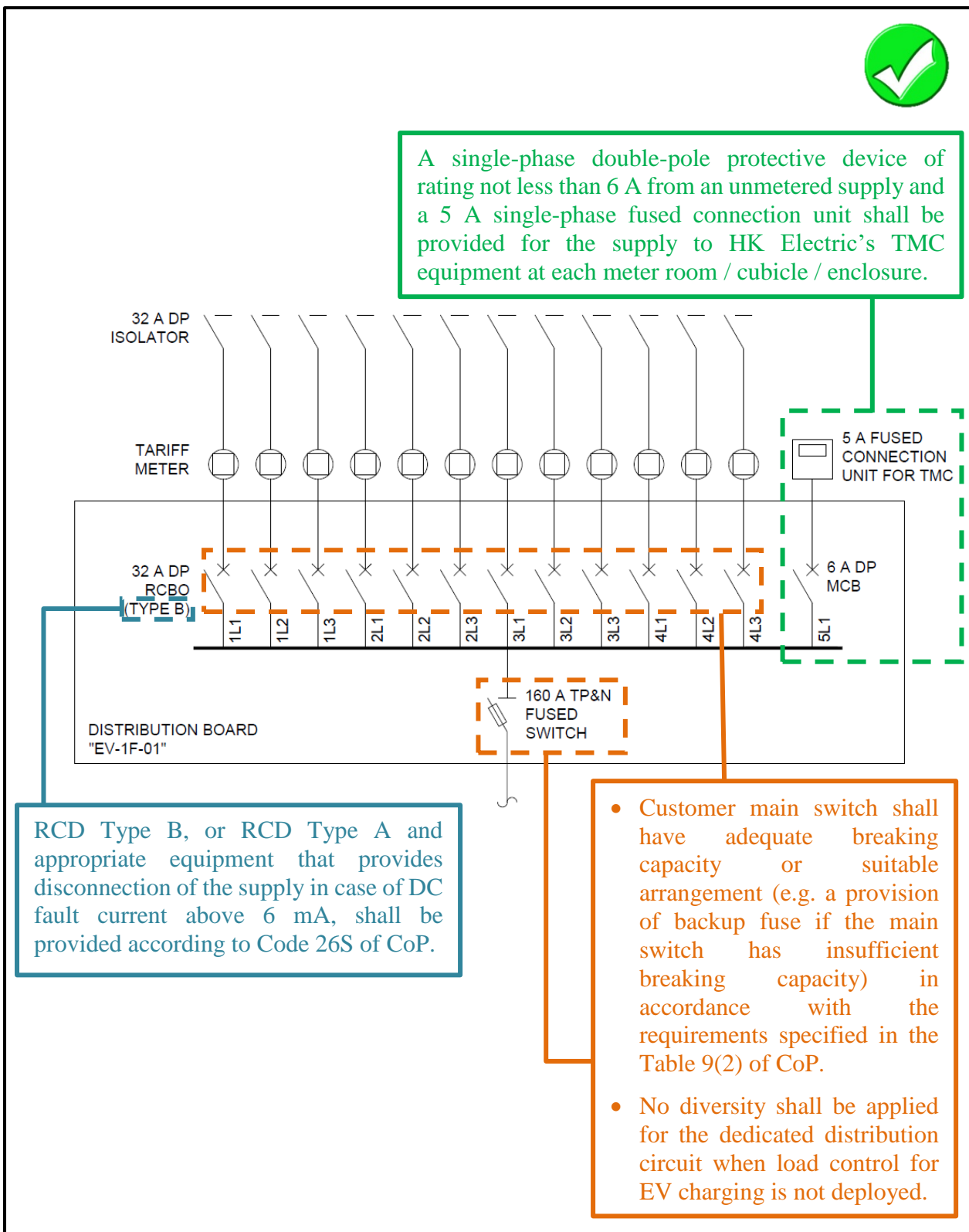
**D) Power Supply in the Project**

- (a) The total number of eligible parking spaces covered in the approved application under the EHSS 48 Nos
- (b) The total number of eligible parking spaces covered in the assessment under the EHSS 48 Nos
- (c) The total power supply capacity required for the electric vehicle charging-enabling infrastructure (“EVCEI”) 336 kVA
- (d) The total number of transformers involved in designing the EVCEI 1 Nos

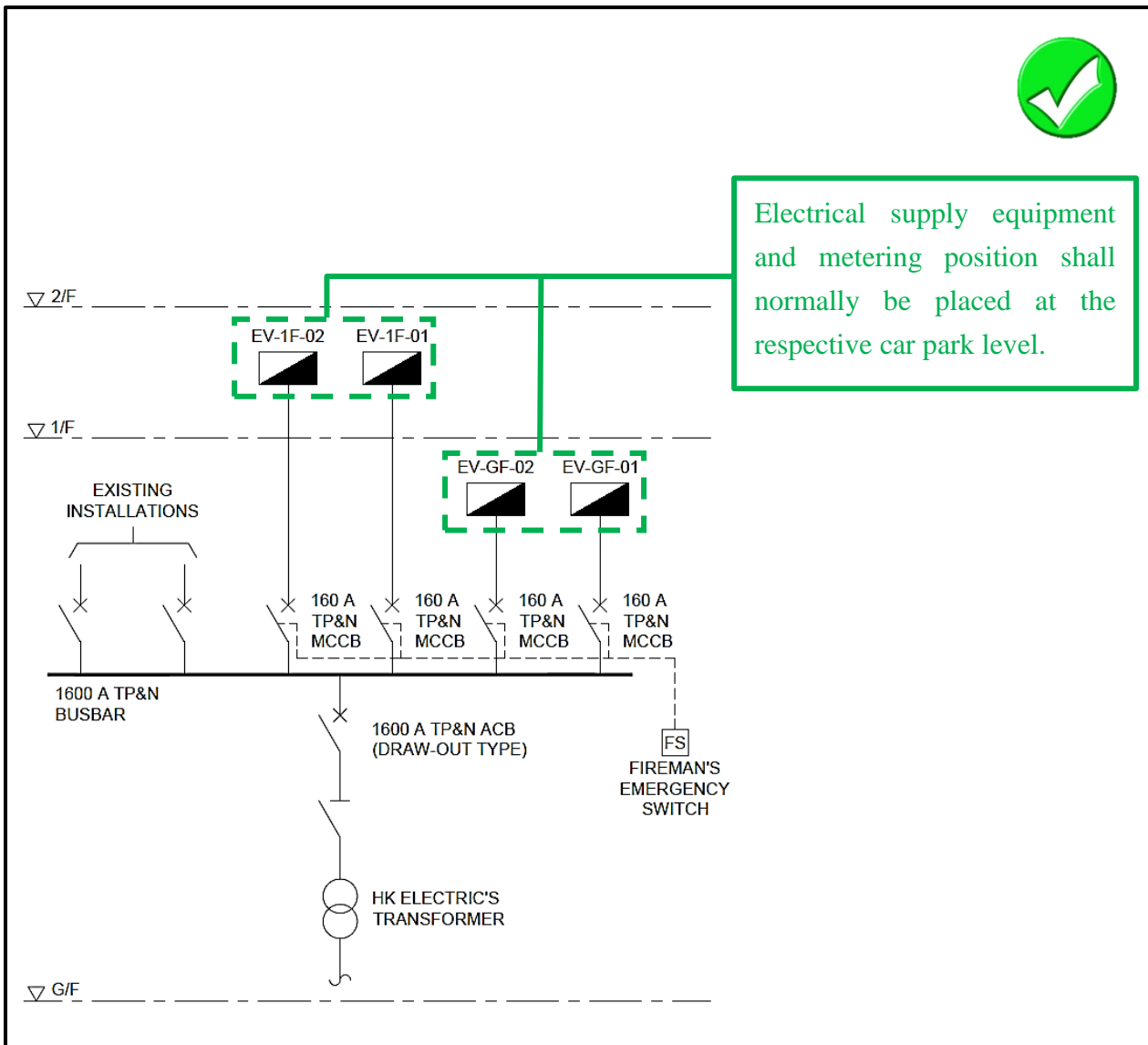
- Total power supply capacity required should be estimated based on the no. of eligible parking spaces equipping typical medium chargers at 1-phase 32 A (i.e. about 7 kVA for each charger).
- According to the EPD’s Design Guidelines for EVCEI under EHSS, the power supply capacity should ideally and preferably be able to support simultaneous medium charging at all eligible parking spaces. As a minimum, the existing power supply capacity needed for the EVCEI should be able to support simultaneous medium charging for 50% (half) of all eligible parking spaces in the application subject to site supply condition.
- In this example, the total power supply capacity required = 48 nos. of parking spaces x 7 kVA per charger with 100% support for simultaneous charging = 336 kVA.

Remark: The above figures are used for illustrative purpose only.

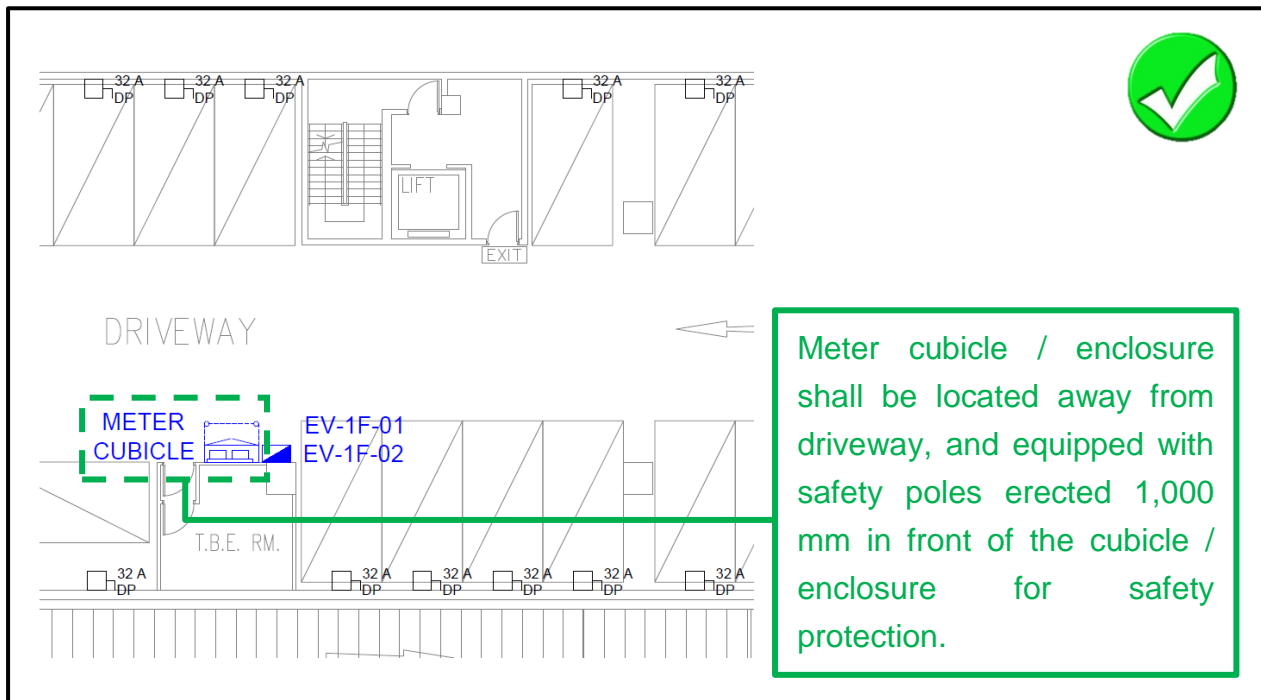
3. Observing Protection & TMC Requirements for Power Distribution



4. Schematic Wiring Diagram that Correctly Reflects Site Installation Arrangement



5. Placing Metering Cubicles / Enclosures at Safe Locations for Operation / Maintenance



We are always pleased to provide our advisory service to the trade on the subject. If you require any further assistance and information, you may contact us through our EV hotline at 2510 2701 or dedicated email [ev@hkelectric.com](mailto:ev@hkelectric.com).