MEP – Technical Design Note

Project Name:	Free Wharf Phase 2
Project Number:	L230077
Reference :	L230077/ MEP TN 04
Dated:	12.12.24

Subject: Planning Condition No. 19 – Parking and Emissions

1.0 General

The parking facilities at Free Wharf Phase 2 consist of 116 No. of assigned parking bays in a secured underground car park and 10 No. of visitor's bays in an external ground floor car park. Electric Vehicle Charging Provision will be provided to all bays within the underground car park split between "Active" and "Passive" spaces. No Electrical Vehicle Charging Provisions have been made for the external parking spaces.

Reference to the attached Calfordseaden Dwg No FWF- CAL-ZZ-B1-DR-E-0099 Rev C02 should also be made for ease of reference.

2.0 Active Charging Spaces

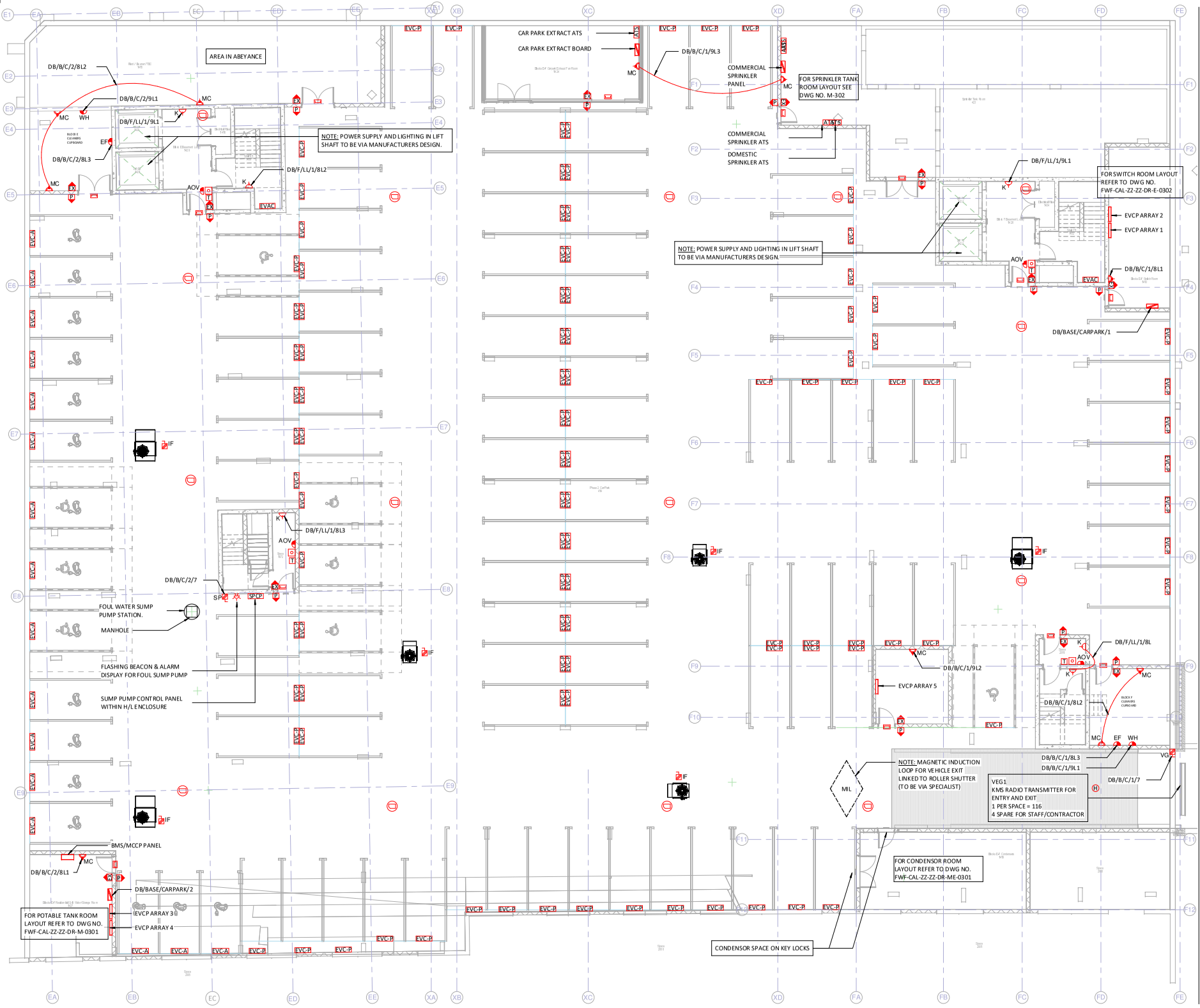
As per the planning submission, 16 No. of vehicle bays within the underground car park are classified as Active Charging Spaces. These spaces consist of No. 39-41 and 104-116 and will be provided with a Pod Point 7kW Electrical Vehicle Charging Sockets.

3.0 Passive Charging Spaces

The remaining 100 No. of vehicle parking bays within the underground car park will be provided with provisions for future installation of 7 kW Electrical Vehicle Charging Sockets. This will consist of containment runs from the electrical switch room across the car park to allow future cabling to be installed.

4.0 Load Allowance / Sharing

To reduce the electrical load on the local electrical grid, a load management system has been specified. This consists of a Pod Point Array Charging system which is capable of supplying up to 27 sockets from a 100A Three Phase supply. To cover all 116 parking bays an allowance of 5 Array Chargers have been specified, these are all shown on drawing FWF-CAL-ZZ-B1-DR-E-0098. For the purposes of the installation, Array No. 3 within the tank room will be installed.



Notes
Do not scale from this drawing. All dimensions to be verified by the contractor on site.
Calfordseaden cannot advise on specialist areas relating to fire safety or cladding and all design information must be checked by the Client's appointed expert and coordinated with the fire strategy.

GENERAL NOTES:

1. ALL DIMENSIONS IN MILLIMETERS, UNLESS OTHERWISE STATED.
2. THIS DRAWING TO BE READ IN CONJUNCTION WITH THE EMPLOYERS REQUIREMENTS SPECIFICATION AND ALL OTHER CONTRACT INFORMATION.
3. ALL LAYOUTS TO BE AGREED BY THE EMPLOYER PRIOR TO INSTALLATION.
4. EARTHING THROUGH THE INSTALLATION TO BE CARRIED OUT IN ACCORDANCE WITH THE LATEST IEE WIRING REGULATIONS.
5. REFER TO DISTRIBUTION BOARDS SCHEDULES FOR CIRCUIT DETAILS.
6. CONTRACTOR TO MAKE CONNECTIONS BETWEEN ANY POWER SUPPLIES/INTERFACES TO ASSOCIATED EQUIPMENTS.
7. PRECISE LOCATIONOF POWER SUPPLIES SHOWN TO BE AGREED PRIOR WITH STAKE HOLDERS PRIOR TO INSTALLATION.
8. DISABLED REFUSE INTERCOM PANEL, EXACT LOCATION TO BE CONFIRMED AND AGREED WITH ARCHITECT.
9. POWER SUPPLY AND LIGHTING IN LIFT SHAFT TO BE VIA LIFT MANUFACTURES DESIGN.
10. ACCESS CONTROL & CCTV LOCATIONS TO BE CONFIRMED AND AGREED WITH SECURED BY DESIGN (SBD).
11. FIRE ALARM INTERFACE UNITS TO BE ALLOWED AT RESPECTIVE LEVELS FOR:
    - SPRINKLER FLOW SWITCH.
    - ACCESS CONTROL.
    - MECHANICAL SMOKE SHAFT (MAOV).
    - LIFTS (ONLY AT TOP LEVEL).
12. IMPULSE FANS SHOWN INDICATIVELY, DETAILED DESIGN TO BE BY SMOKE VENTILATION SPECIALIST.
13. 10No EXTERNAL PARKING BAYS TO HAVE PASSIVE EVCP.

LEGEND:

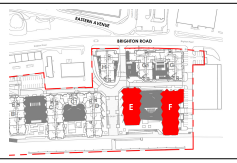
- EX — DOOR RELEASE EXIT BUTTON + GREEN EMERGENCY BREAKGLASS DOOR RELEASE WITH FLIP LID
- MAGNETIC DOOR LOCK
- FIXED CCTV CAMERA (DOME TYPE)
- 13A SINGLE SWITCHED SOCKET OUTLET 'K' DENOTES KEY OPERATED
- P — PROXIMITY KEYFOB READER
- FIRE ALARM SOUNDER & BEACON
- EVAC — EVACUATION ALARM CONTROL PANEL
- SPCP — SUMP PUMP CONTROL PANEL
- EVC-P — ELECTRIC VEHICLE CHARGING POINT (PASSIVE)
- EVC-A — ELECTRIC VEHICLE CHARGING POINT (ACTIVE)
- MIL — MAGNETIC INDUCTION LOOP

ABBREVIATIONS:

AOV - AUTOMATIC OPENING VENT
EF - EXTRACTOR FAN
IF - IMPULSE FAN
MC - METAL CLAD
SP- SUMP PUMP
WH - WATER HEATER
VC - VEHICLE GATE

HG CONSTRUCTION

Key Plan



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Rev	Description	Date	Init	Chkd
C02	STAGE 4B -Construction Issue	26.07.24	AT	VK/JC
C01	STAGE 4B -Construction Issue	11.07.24	AT	VK/JC
P1	STAGE 4A - Preliminary Issue	22.01.24	AT	JM

Project
Free Wharf Phase 2

Title
Basement Floor Electrical Small Power Services Layout

Client	Status
HG Construction	Construction

Date	Drawn By	Checked By
03.10.23	AT/RN	JM

Project No.	Drawing No.	Revision
L230077	FWF-CAL-ZZ-B1-DR-E-0099	C02

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