

COLOUR CONVENTIONS
BLACK - EXISTING OR UNCHANGED
BLUE - MODIFIED OR TO BE MOVED
GREEN - REDUNDANT OR TO BE REMOVED
RED - PROPOSED OR ADDITIONAL
PURPLE - WORKS BY OTHERS

- NOTES:
- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE FOLLOWING DRAWINGS/DOCUMENTS:-
-172768-KCL-DRG-EDS-000139- MANCHESTER PICCADILLY SHORT STAY CAR PARK PROPOSED SINGLE LINE DIAGRAM.
-172768-KCL-DRG-EDS-000140 - MANCHESTER PICCADILLY SHORT STAY CAR PARK PROPOSED EARTHING BLOCK DIAGRAM.
-172768-KCL-F0A-EDS-000036 - MANCHESTER PICCADILLY SHORT STAY CAR PARK FORM A.
 - THE PROPOSED FEEDER PILLAR SHALL BE EQUIPPED WITH AN ANTI-CONDENSATION HEATER, LED LIGHTING WITH A MANUAL SWITCH AND A DOUBLE 13A SOCKET WITH RCD PROTECTION FOR MAINTENANCE, IN ACCORDANCE WITH THE REQUIREMENTS OF NR. ALL DETAILS OF THE PROPOSED EQUIPMENT SPECIFICATIONS SHALL BE CONFIRMED AT GRIP 5 STAGE WITH THE MANUFACTURER. ALL CABLE SIZES WILL BE DETERMINED VIA AMTECH CALCULATIONS.
 - IT HAS BEEN ASSUMED THAT THE EXISTING LIGHTNING PROTECTION IS AS PER THE LATEST APPLICABLE STANDARDS AND THE PROPOSED INSTALLATION OF EV CHARGERS AND ASSOCIATED EQUIPMENT DOES NOT NEED ANY ADDITIONAL DESIGN CONSIDERATION FOR LIGHTNING RISK. COORDINATION AND INCORPORATION OF ANY ADDITIONAL LIGHTNING PROTECTION MEASURES WILL BE UNDERTAKEN AT GRIP 5 IF REQUIRED.
 - THE PROPOSED SUPPLY IS ASSUMED TO BE A TN-S SUPPLY AS PER NR'S RESPONSE ON TQ09 - (REF: 172768-KCL-ETQ-EDS-000009). NO ADDITIONAL EARTHING ARRANGEMENT IS CONSIDERED UNTIL VALIDATION WITH THE DNO AT GRIP 5 STAGE.
 - EXISTING CABLE CMS (EXISTING BURIED DUCTS, HIGH LEVEL CABLE TRAYS) HAVE NOT BEEN SURVEYED AT THIS STAGE. INDICATIVE CABLE ROUTE HAS BEEN SHOWN AND ALL CABLE ROUTE TO BE CONFIRMED AT GRIP 5 STAGE. SPARE CAPACITY FOR THE CMS WILL ALSO NEED TO BE DETERMINED AT GRIP 5 STAGE VIA DETAILED SURVEY.
 - REFER TO CIVIL DRAWINGS FOR CIVIL CMS AND STRUCTURAL SUPPORT DETAILS.
 - DURING THE IDC / IDR MEETING ON 26/04/2022, THE DESIGN TEAM HAVE BEEN ADVISED THAT ADDITIONAL EQUIPMENT HAS BEEN INSTALLED WITHIN THE ROOM. IN THE ABSENCE OF INFORMATION AT THIS STAGE, IT HAS BEEN ASSUMED THAT THE ADDITIONAL EQUIPMENT HAS NO IMPACT ON THE PROPOSED MODIFICATION. DETAILS OF THIS EQUIPMENT SHALL BE CONFIRMED AT GRIP 5 STAGE.
 - ALL PROPOSED CABLE TRAYS TO BE COVERED WITH ANTI-TAMPERED LIDS AND ALL SECTIONS OF THE CABLE TRAYS WILL NEED TO BE BONDED WITH EACH OTHER.
 - ONCE ALL CABLES HAVE BEEN DRAWN INTO DUCTS, ALL HOLES SHALL BE SEALED BY A WATERPROOF SEALING COMPOUND TO PREVENT THE INGRESS OF WATER AND VERMIN.
 - THE PROPOSED FEEDER PILLAR SHALL BE DESIGNED TO HAVE SLOPING ROOF TO PREVENT LITTERING.

A02	01/07/22	IFA - COMMENTS INCORPORATED	SK	NC	NR
A01	05/05/22	ISSUED FOR APPROVAL	SK	NC	NR
P01	20/04/22	ISSUED FOR REVIEW	SK	NC	NR
Rev	Date	Description of Revisions	Drawn	Chkd	Appr

Status



The Quadrant, Car Park
Elder Gate
Milton Keynes
MK9 1EN
Contractor(s)



Fleet House
8-12 New Bridge Street
London
EC4V 6AL
Project:

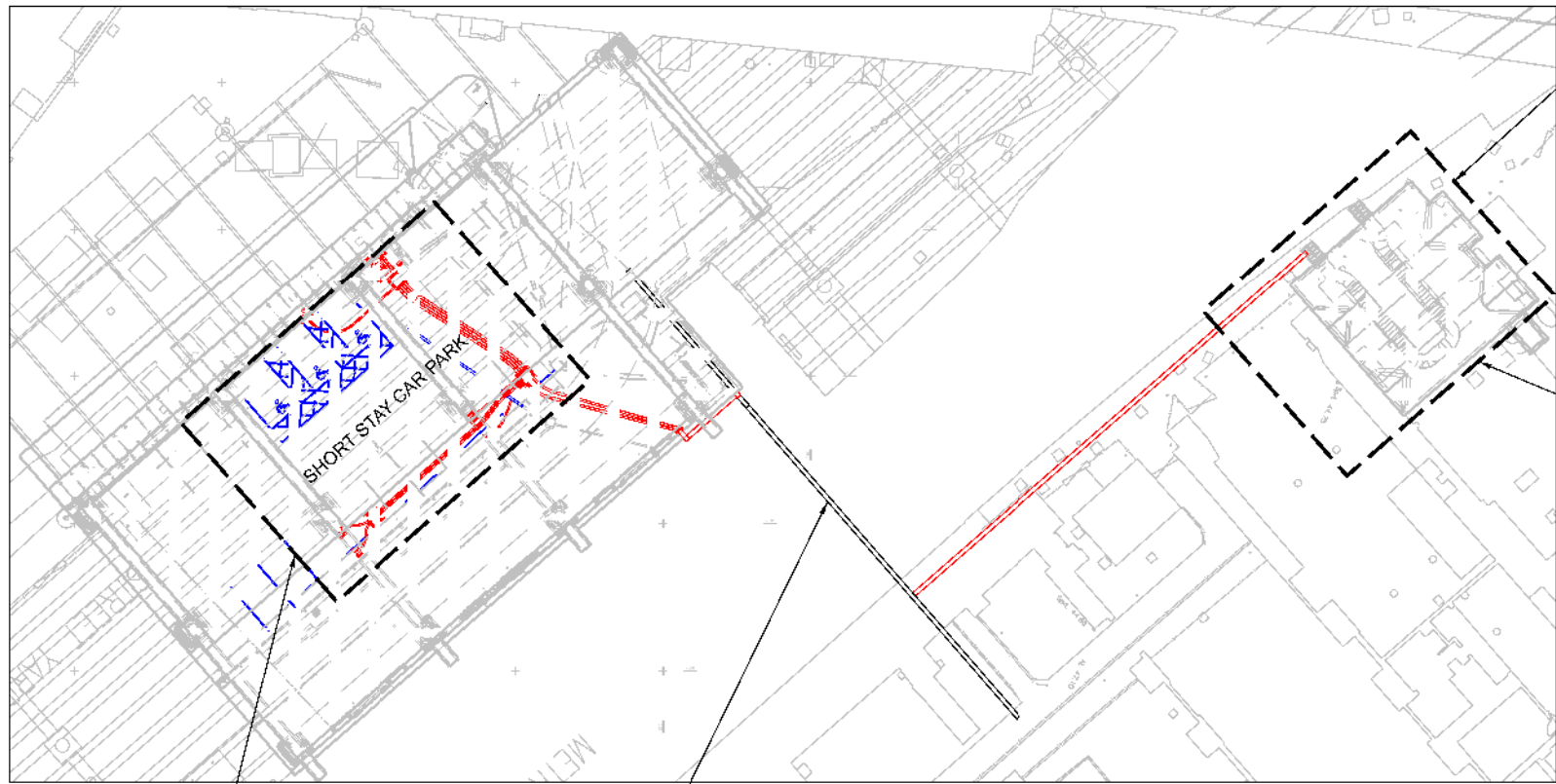


C0033 NR ELECTRIC
VEHICLE
PHASE 2

Drawing Title
MANCHESTER PICCADILLY
SHORT STAY CAR PARK
EV CHARGING INFRASTRUCTURE
PROPOSED GENERAL ARRANGEMENT

Designed	S KAUNDAL	Signed	Sobu Kaundal	Date	13/04/22
Drawn	S KAUNDAL	Signed	Sobu Kaundal	Date	13/04/22
Checked	N CHUNG	Signed		Date	14/04/22
Approved	N RIAZ	Signed		Date	20/04/22
Scale(s)	R.T.D. ELR & Mileage -				
Alternative Reference	C0033-POI-DRG-EP-140001				Sheet 01 of 01
Drawing Number	172768-KCL-DRG-EDS-000138				Revision A02

KEY PLAN
SCALE 1:500



LOCATION OF PROPOSED EV CHARGING BAYS

EXISTING CABLE CMS (SEE NOTE 5)



LOCATION OF HV ROOM ARCH 154

HIGH VOLTAGE ROOM ARCH 154

CONTINUED TO EXISTING HIGH LEVEL CABLE TRAY

LOCATION OF ARCH 154 HV ROOM AND PROPOSED CABLE ROUTE TO CAR PARK
SCALE 1:100

PROPOSED HIGH LEVEL CABLE TRAY SUSPENDED VIA ROOF SUPPORTS

EXISTING HV ROOM ACCESS DOOR

PHOTO 02

EXISTING CABLE CMS EXISTING CABLE TRAY SUSPENDED ABOVE THROUGH METROSTATION CAPACITY AND DETAILS TO BE CONFIRMED BY DETAILED SURVEYS AT GRIP 5. INDICATIVE ASSUMED ROUTE OF EXISTING CABLE TRAY.

PHOTO 01

SEE NOTE 7

PHOTO 01
LOCATION OF EXISTING LV PANEL (MSB01-01)



MSB01-01 (SECTION F17) MCCB TO BE MODIFIED

SEE NOTE - 7

LOCATION OF PROPOSED EV CHARGING BAY
SCALE 1:100

EXISTING BAYS TO BE REPAINTED FOR COMPLIANT BAY SIZES

PHOTO 04

PROPOSED DDA RAPID CHARGER

PROPOSED FEEDER PILLAR ON CONCRETE PLINTH (SEE NOTE 2 AND 10)

PROPOSED BOLLARD PROTECTION

PROPOSED STAKKA BOX CABLE CHAMBER

PROPOSED DDA EV CHARGING BAY

PROPOSED STAKKA BOX CABLE CHAMBER

PHOTO 03
LOCATION OF GENERAL EV CHARGING BAYS



PHOTO 04
LOCATION OF DDA EV CHARGING BAY



PHOTO 03

EXISTING HIGH LEVEL CABLE TRAY

EXISTING LV SWITCH ROOM

PROPOSED CABLE DUCT

CONTINUED FROM EXISTING HIGH LEVEL CABLE TRAY

PROPOSED CABLE TRAY TO CONNECT FROM EXISTING CABLE TRAY

EXISTING CABLE CMS EXISTING CABLE TRAY SUSPENDED ABOVE THROUGH METROSTATION CAPACITY AND DETAILS TO BE CONFIRMED BY DETAILED SURVEYS AT GRIP 5. INDICATIVE ASSUMED ROUTE OF EXISTING CABLE TRAY.

0 2 4 6 8 10m

SCALE 1:100

0 10 20 30 40 50m

SCALE 1:500

EXISTING LV SWITCHROOM

