

Manchester Metropolitan University

Site Wide Resilience

Construction Management Plan

Pre-Construction Stage

1.0 Document Control

<u>Revision</u>	<u>Date</u>	<u>Author</u>	<u>Section Amended & Notes</u>
01	25/02/21	RH	For Planning/ Information

2.0 Introduction

The purpose of this Construction Management Plan (CMP) is provide high level information on the procedures, sequencing and construction methodology anticipated by the project team engaged in the planning, liaison and installation of the permanent standby generators at Birley Energy Centre and Brooks Building.

It is also designed to be a live document which will eventually address how any planning conditions imposed on the project will be managed or discharged by the Contractor.

The plan outlines proposals on build methodology and sequence for the works along with the traffic and environmental measures to be adopted during construction.

It is not to be confused with the Construction Phase Health & Safety Plan, which will provide the contractor with a mechanism to comply with its legal responsibilities when acting as principal contractor in respect to the Construction (Design & Management) Regulations 2015.

The CMP considers all aspects and stages of the construction process, being;

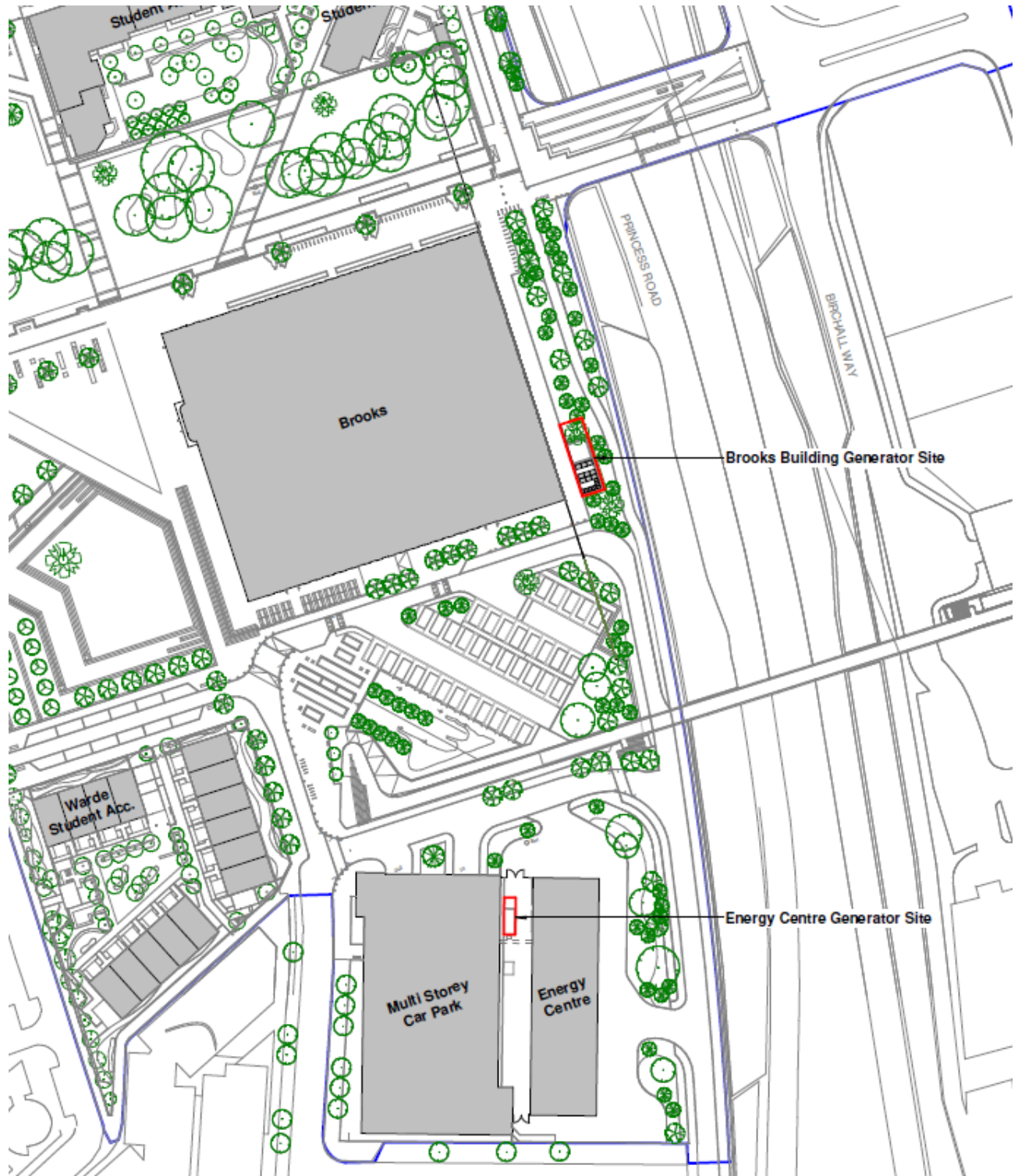
1. Enabling works & Slab
2. Installation of Generators

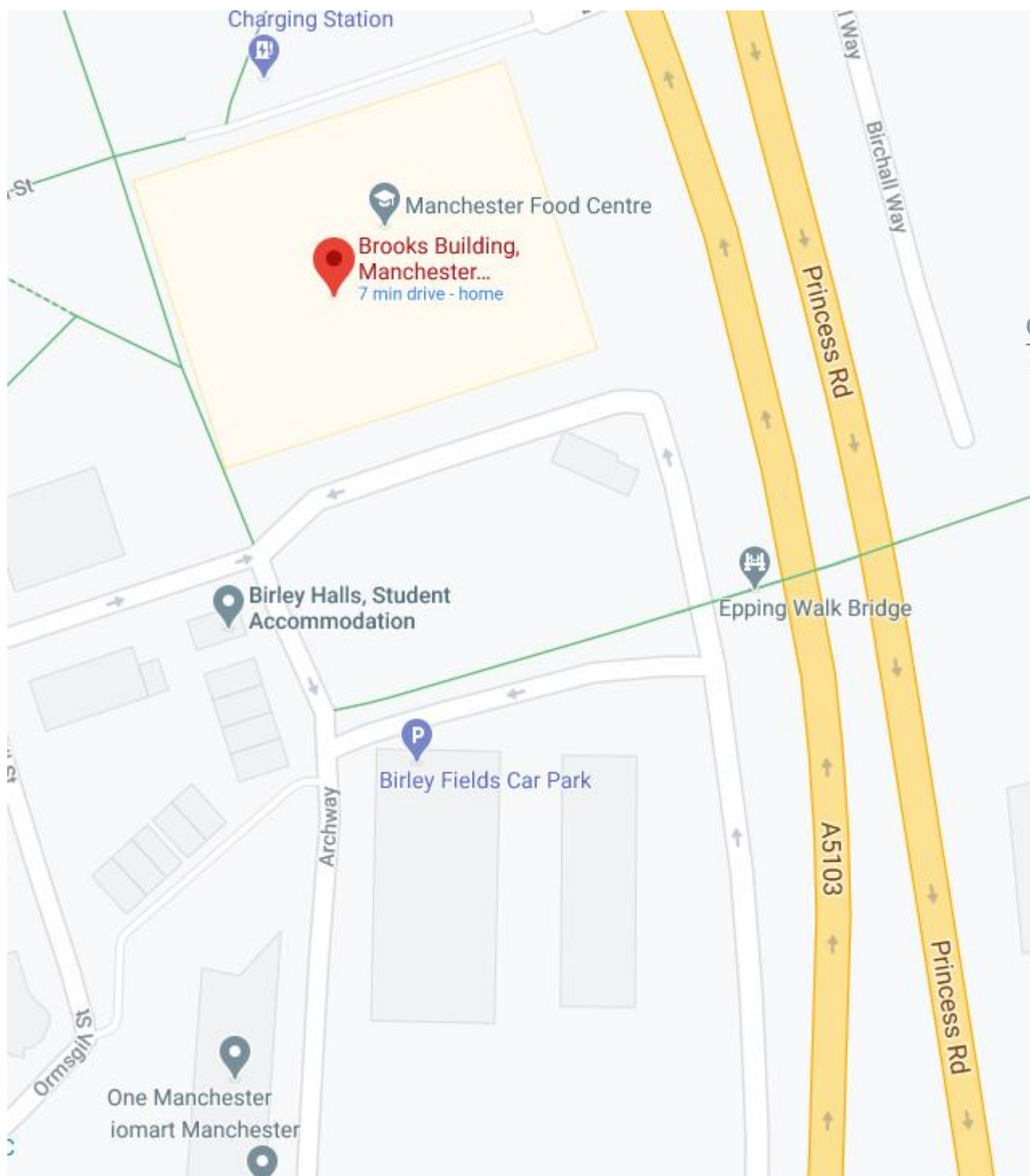
3.0 Site Details

3.1 Site Location

The Brooks Building is located adjacent to Princess Road and bounded by Bonsall St to the North of the building and George Parr Road to the south. The proposed location of the permanent standby generator will be where the current bin store is located, adjacent to Princess road to the East of the building.

Birley Energy Centre is located to the south of Brooks building and is bounded by Archway street and Pheonix way. The Energy centre is located next to Birley Fields Car Park to the West and Princess Road runs adjacent to the West. The proposed location for the permanent standby generator is in the service yard between Birley Fields Car Park and the Energy Centre.





3.2 Description of the Works

The Works will include the installation of two 1000kVa fully secure generator sets to serve Brooks Building and Birley Energy Centre. The installation of these generators will allow the campus to provide a manual power supply should the site mains power fail. The Generators will be self-contained and connected to a manual ASCO changeover switch.

For both sites the Contractor will install a slab for the generator to sit on.

For the Brooks building, all cables to connect the generator to the ASCO change over switch, located in the Brooks building, will be brought through underground trenches.

The Contractor will ensure that the works and site compound are prohibited to unauthorised personal and will use fencing to demarcate these areas. The Contractor will also ensure that all pedestrian access routes will be suitable segregated from vehicle access routes by means of barriers and fencing. In both locations the site is away from any public footpaths/walkways.

The working area will be securely segregated during the works and Contractors will ensure any disruption to the normal/daily routines of the University are avoided.

3.3 Pre-Start Survey

A preliminary survey of the works will be undertaken by the Contractor and will be reviewed prior to commencement of the full works, a full joint survey will be undertaken with the client team and the Contractor. A photographic record of the boundary conditions will be requested from the Contractor.

4.0 Programme of Works

It is envisaged that the works are to be commence in May and complete in June with the commissioning and shut down taking place in August during the Summer Holiday period.

5.0 Scope of The Works

5.1 Enabling works

Initially works will commence with a series of enabling operations and surveys, which will comprise of the following:

- Initial surveys of the ground conditions
- Installation/Laying of the structural slab at both locations.
- Preparation of the trenching for the generator cables
- Excavations within the transformer room for the generator cables

It is envisaged that these works will be undertaken over a period of 10 days for each location. The slab will then be left, protected/demarcated to cure.

5.2 Installation works

The Contractor will install the Generator's, these works will include:

- Installation of the Generator Cabling
- Installation of the 1000A ASCO changeover panel
- Installation of the cable containment from ASCO changeover panel to LV switch panel
- Installation of cables ready for connection into the transformer
- Prepare/connect cables into ASCO Changover switch
- Installation of hatch through louvered door.

5.3 Commissioning and changeover

- Changeover of supplies to be carried out within the Summer holiday period

6.0 Hazard / Risk & Environmental Management and Controls

Policy's & Procedures – all works will be in strict accordance with MMU's standards and requirements.

Workshops & Meetings – Pre-construction, stakeholder engagement, Client Team, Key Sub-contractors, Commercial.

During Construction – feedback sessions, item in all meeting minutes.

Control Log – Risk Registers (updated & live), safety audits

Site Specific items - relating to Health and Safety where particular attention will be given during pre-construction phase that the team will develop specific Method Statements and Risk control procedures to manage.

- Public safety in and around the entrances to site and the site boundaries.
- LV/HV works
- Existing surround buildings and Businesses immediately adjacent to the site.

Whilst this list is not exhaustive, it will be used as discussion points for the team developing the project Construction Phase Health and Safety Plan.

6.1 **Working Hours**

The construction hours will be as set out in the planning approval; however we anticipate these to be in the realm of;

7.30am – 6.00pm Monday to Friday;

8:30am to 2:00pm on Saturday; and,

No working on Sundays (subject to written agreement with the local authority)

There will be certain circumstances where construction work will be required to take place outside of these hours. An example of this is during the commissioning, the building will need to undergo a shut down. As the buildings are in constant use, it may be agreed with Stakeholders that these shut-downs should take place over a weekend.

6.2 **Construction Site Accommodation Welfare and Storage**

Due to the envisaged programme of the works, the Contractor will not be providing separate site welfare facilities, instead they will be allowed to use the existing facilities on site provided by the University, e.g. food canteens, wash facilities, toilets.

Due to the nature of the Works, there will not be materials stockpiled on site. The Contractor will remove any materials not used at the end of each day.

Covid-19

Current considerations from the guidelines will be but not limited to;

1. Welfare facilities to be adequately sized to maintain social distancing in conjunction with regular cleaning regime
2. Split break times to ensure social distancing maintained
3. Signage and washpoints at entrances and exits
4. Regular tool box talks to remind operatives of responsibilities
5. Use of PPE where social distancing cannot be maintained

6.3 **Car Parking for Contractors Staff and Operative**

The Contractors teams will be limited in number and will utilise the car parking facilities provided by the University.

There will be no access granted unless authorised by the Contractor, this will be following a site safety induction and in the case of visitors, escort onto site by competent team members.

Cyclists - There are no cycle lanes currently around the perimeter of the site boundary however the Contractors site gatemen and banksmben will be observant of cyclists when directing public and vehicle mavements alike.

6.4 Deliveries, Highways & Safety

Signage - Adequate signage will be erected on the lead up to the entrance to site to enable safe traffic movements on the public highway.

6.6 Construction Environmental Management Plan

The development of a 'Construction Environmental Management Plan" will be undertaken for the site during the procurement phase of the scheme.

The CEMP defines responsibilities and methods during the construction phase of this development to manage potential impacts on the environment and operation of all surrounding stakeholders.

7.3 Waste and Recycling

All waste generated during the construction phase will be taken off site and disposed of in accordance with the regulations.

The Contractor will follow the Universities regulations and requirements regarding waste and recycling.

Contact Details.

TBC when Contractor is appointed.