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Construction Phase Plan

*North Manchester General Hospital
Southern Enabling Works, HV/LV
Infrastructure works.*

**Prepared in accordance with the Construction (Design
and Management) Regulations 2015**

Date: January 2022
Version No: 001

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Project Title: North Manchester General Hospital General Hospital, Southern Enabling works.

Project Description

As part of the overall hospital development and upgrade, this project is required to enable demolition of old buildings currently fed via electrical infrastructure which is being diverted as part of this project. Substation 8 is going to be demolished and re-fed via a newly installed substation, name of which is to be determined however please refer to this proposed substation as Substation 8A.

The electrical works that form part of this construction project and for the diversion of a HV Ring Circuit, Creation of Substation 8A, looping in of new HV Circuit to a close coupled Ring Main Unit situated within Substation 8A. Substation 8A will also include the provision of an 800kVA Standby Generator, Low Voltage Switchboard, ASCO Unit and 800kVA Low Loss Eco Transformer. This LV switchboard will be utilised to feed previously identified circuits which will be fed, once operational, and circuits changed over at a time to be agreed.

Management Arrangements

General Management Arrangements

For detail of the duty holders and delegated representatives, project timescales, project budget and F10 notifications refer to the Pre-Construction Information.

ENWL CMS Limited under the CDM regulations 2015 will be acting as the Principal Contractor for this project. Principal Designer for this scheme is :

Principal Designer: Kenmac Associates Ltd
Address: Salesis Farm
Salesis Lane
Bury
BL96TH

The client for this scheme is:

Client: Manchester University NHS Foundation Trust
Address: Cobbet House
Manchester Royal Infirmary
Oxford Road
Manchester
M139WL

Health and Safety Aims for the Project

Electricity North West has a safety value to protect our people, our customers and our environment. The health and safety aims of this project are to implement that value measured by the achievement of zero harm.

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Site Rules

The following project specific rules have been identified:

Working hours are limited to 08:00 – 18:00 Hours Monday Friday, 08:00-13:00 Hours Saturday. Sunday working is at the discretion of the local authority & if the project requires. Project specific traffic movements will be agreed prior to the delivery date and access plans discussed & approved. Site access will be via the highways the serve the hospital grounds. The site is split into two areas, one is moving in line with the excavation works required and secondly the proposed location for substation 8A.

Electricity North West Distribution Safety Rules

All operational work will be carried out in accordance with the Electricity North West distribution safety rules and associated codes of practice.

The following types of work will be necessary as part of this project:

Underground excavations, cable laying, jointing and the like	Yes
Overhead pole or tower work, ductoring, terminations and the like	No
Plant installation, replacement and the like	Yes
Temporary portable generation	Possibly
Civil work, buildings, plinths and the like	Yes
Electrical operational activities	Yes
HV network operations	Yes

In addition the generic risks associated with the type of work identified above, the Principal Contractor / Contractor particular should pay particular attention to the controls measures detailed in the following key HSE guidance and Electricity North West codes of practice:

HS(G)47 Avoiding Danger from Underground Services
GS Avoiding Danger from Overhead Power Line
Codes of Practice 605/606/610

Where work is to be carried out on equipment connected to or in close proximity to the Electricity North West distribution network including when that equipment is dead then all relevant Electricity North West distribution safety rules and associated codes of practice, including the issue of safety documents.

Project Monitoring Requirements

The following monitoring will be carried out during the construction phase of this of this project:

- Site Audits by or on behalf of Principal Contractor and Contractor Representatives
- Monthly update reports from the Principal Contractor Representative incl. CDM/H&S

Arrangements for Cooperation between Duty Holders and Work Coordination

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The arrangements to ensure Duty holders cooperate are prescribed in Electricity North West Code of Practice CP020 and the various Electricity north West project management processes. For the construction phase of this project these include the requirements for the following meetings:

- Pre-Site Start meetings
- Project progress meetings
- Work coordination meetings

[Enter any additional project specific Duty Holder coordination and work coordination requirements]

CDM Demarcation Zone

A CDM demarcation zone has been established for the project. This will be communicated to all personnel working on the project as part of the site induction. Any changes to the CDM Zone will be communicated through specific briefings. Where practicable a copy of the CDM Zone will be posted so it is visible to all personnel working on the project.



The above image shows the location of the proposed lay down area which will be under the control of Electricity North West Construction & Maintenance Limited and restricted to use by its appointed Contractors Only.

Site Induction

A suitable site induction has been prepared for this project. All personnel attending the project site and entering the CDM Zone for the first time will be briefed on contents of the site induction by the Person Coordinating Site Work. Where the contents of the site induction are significantly changed all personnel

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attending the project site and entering the CDM Zone will be re-briefed on its contents. A record of the briefing will be maintained by the Principal Contractor / Contractor.

Hyperlink: [S:\Operations\05 - COMA\01 Customer\COMA Customers\58213 - North Manchester General Hosp\Construction\C.051164 - HV Cable Divs South\Construction Info & Drawings\Health & Safety\CDM](#)

Site Security

The Person Coordinating Site Work shall ensure all necessary security precautions by day and by night, including weekends, provide all necessary barriers, fencing, hoarding, fans, guard rails, gantries and the like, temporary danger lighting and any other safeguards for the protection of the public

No material is to be stored adjacent to any permanent site fence.

All items of equipment which may provide a climbing aid must be securely stored when not in use.

All personnel working on the site have a responsibility for ensuring that only authorised staff is given access.

No materials, poles, planks or ladders to be placed or stacked adjacent to any statutory fencing enclosing a transformer compound as this nullifies the effective security of the said fence. All items of equipment which may provide a climbing aid must be securely fixed or stored and locked when not in use.

Person Coordinating Site Work

On the site there shall always be a Principal Contractor or Contractor employee responsible for coordinating all work being carried out. Specifically the Person Coordinating Site Work is responsible for:

- Ensuring security of the work area, including challenging visitors;
- Co-ordination of activities;
- Communication of information including site inductions where necessary;
- Transferring control to another person on site when they leave the site.

Welfare Facilities

Due to the size and scope of the project, the following welfare facilities have been deemed appropriate and are provided as follows:

A Welfare cabin will be provided and stored within the laydown area for use of ENWL Staff and their contractors.

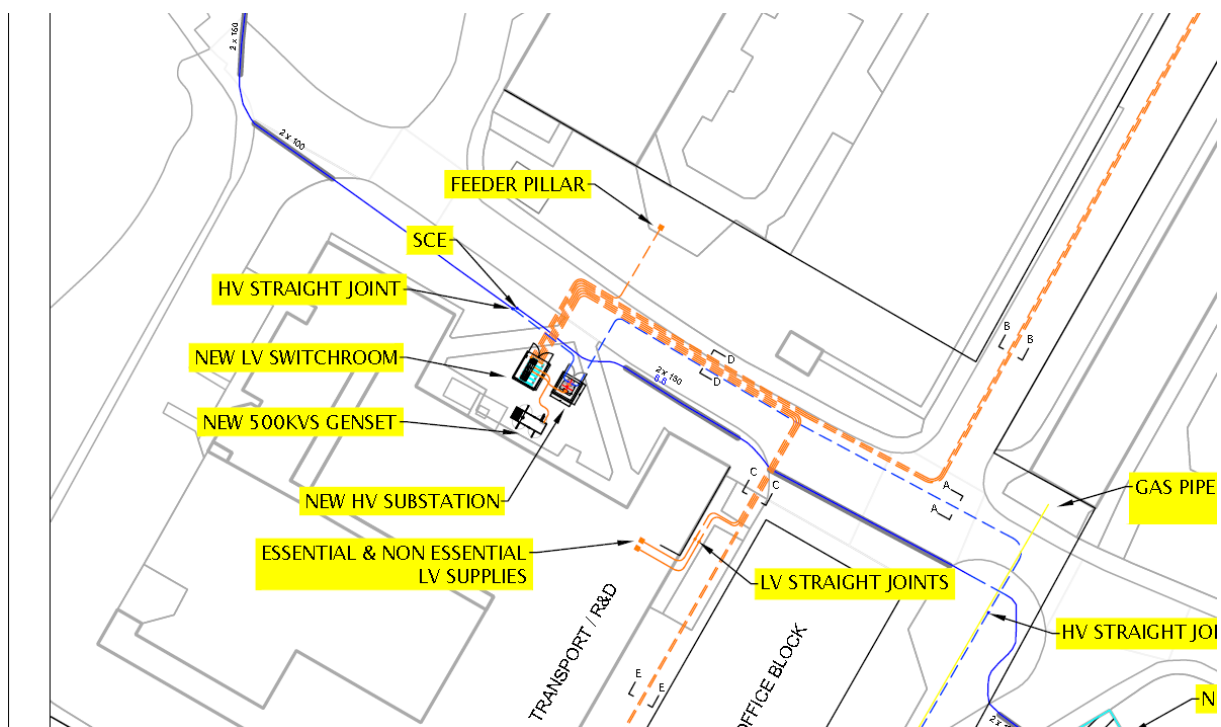
Substation 8a Proposed Location

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Substation 8A Layout



The area above will form part of the construction area, which will be fenced off for the duration of the works.

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Fire and Emergency Procedures

For general work on the project, the fire and emergency procedures prescribed in the Electricity North West distribution safety rules and associated codes of practice shall be applied on this project. Due to the size and scope of the project however the following additional procedures have been deemed appropriate and are provided as follows:

Fire extinguishers will be present on the vehicles of the operatives working, operatives should only tackle fires if they are competent and trained to do so. In the event of a fire, please muster at the laydown area and call the emergency services on 999/111.

Regulation 29 – hot works will be monitored and detailed in risk assessments on a task by task basis.

Regulation 30 – there is a muster point that will be detailed to inducted operatives on site, routes will be displayed and shown to operatives and explained/verified/reviewed on a daily basis

Regulation 32 – all of our works will be outside, so from a detection perspective visual methods will be utilised.

As part of our construction works, liaising with the trust will take place to ensure that fire existing fire escape routes and in place and maintained/not hindered by our construction fence line.

Control of Significant Health and Safety Risks Associated with the Construction Phase

From the Pre Construction Information and during the planning of the construction phase, the below significant risks and arrangements for managing those risks have been identified. These do not cover routine health, safety and environment risk that are common in Electricity North West projects. Other risks may become apparent as project develops for which appropriate controls will be implemented and details added to this plan.

Significant Design Assumptions and Methods of Work

Risk assessments will be saved on ENWL servers and reviewed by a Construction Manager/Project manager prior to works commencing. Risks will be discussed by ENWL and its sub-contractors. Contractors will have copies of their RAMS for reference when completing their works.

Employee and Contractor Identification

ENWL CML acting as the PC for this project will implement, in addition to minimum PPE standards, the requirements that Hi-Visibility vests are worn showing the employers logo & photo identification present.

Control of Noise and Dust

Noisy works will be completed during the pre-described times set by the client and principal designer;

Any dust created will be cleaned up and disposed in an appropriate manner. CIS (NW) Operatives will wear appropriate PPE if required and dampen down area to reduce dust becoming airborne. We do not envisage smoke during this installation.

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Consideration will be given to members of the public who are walking past our works if we are using noisy machinery, we will temporarily pause these works as they walk past our excavation works in the carriageway.

Vibrations associated with our work activities

Some of the machinery that we will be using do present the risk of developing what is known as “white finger” to the operatives using these pieces of plant. As detailed in the Risk Assessments that will be used for these tasks’ operatives will have maximum permissible timescales that these pieces of equipment are used for in a normal working day.

Further discussions with the trust will take place and our proposed plant will be shown. To control the vibrations, present to users of the trust, the smallest size plant will be selected for the required tasks. They will stick to major road routes and it is not envisaged that they will be much larger, if at all, than other road users of the hospital traffic system.

- Standard size transit van
- 3tonne dumper wagon
- 3tonne Mini Excavator with rubber tracked wheels to reduce vibration

The core drilling will be sub-terra at a depth of 1M and it is expected that the use of the drill and the vibrations made will naturally be dissipated in the surrounding sub-soil. (This is limited to Crescent Drive Major Roadway), as shown on SIS Drawing “20200-SIS-ISZ-XX-DR-E-6011”

Compound Locations (Where Relevant)

The laydown area will be used for the duration of the project, the substation 8A Fence line will be in place for the duration of the project. The installation of services will be on a moving basis, and chapter 8 barriers utilised when completing these works to prevent un-authorised access to any open excavations that are present.

Excavations will be opened and closed within a 30m distance (as best as practicable), and once relaying of tarmac, traffic management will be adjusted to suit the needs of Crescent Drive and other. Once tarmac has been laid in these specific sections, this section of carriageway will be cleaned of construction mess/debris that has been generated.

Traffic Management (Crescent Drive/EYAM Road)

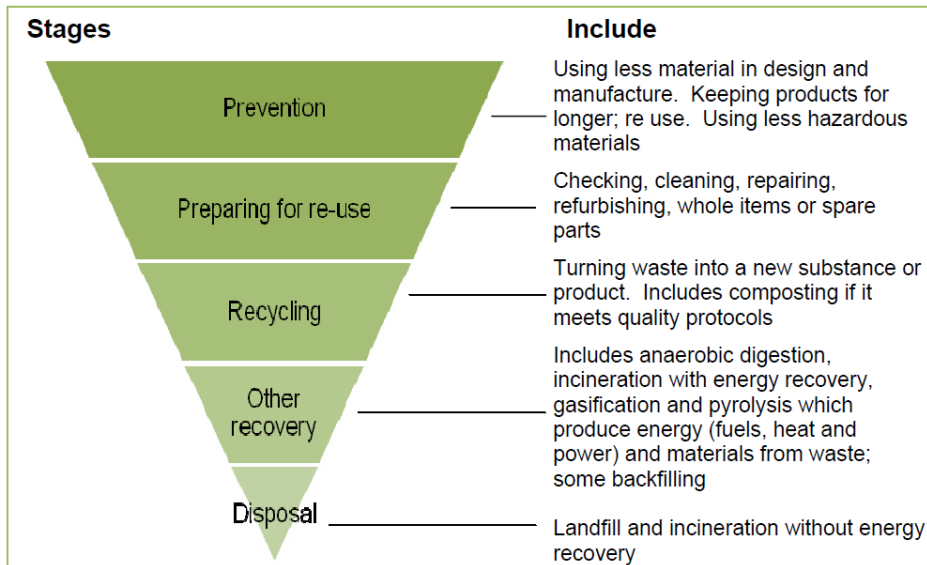
THIS SPACE INTENTIONALLY LEFT BLANK – DISCUSSIONS TO TAKE PLACE BETWEEN ELECTRICITY NORTH WEST CONSTRUCTION & MAINTENANCE LIMITED AND KENMAC/THE TRUST. TRAFFIC MANAGEMENT PLAN TO BE IMPLEMENTED BETWEEN ALL PARTIES.

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Location, Removal & Recycling of Waste

Please see our Code of Practice 915 which is applicable to this project.



Waste generated by this site will be driven via “Dumper” vehicles to the laydown dedicated to ENWL use, where the above hierarchy will be implemented. All waste will be disposed of, if required in accordance with local authority requirements and current legislation.

Emergency Contact Details

The emergency contacts are detailed in the site inductions and will be detailed on the site hazard boards. However, for completeness emergency contacts for works covered in this project are as follows:

Oliver Coome **07775 551 594**, Chris Hauber **07551 135671** and a further contact will be available for the supervisor of the civil teams.

As part of the Highway works, contact details will be present giving names and contact numbers in the event of an emergency.

Significant Design Risks

A design risk register has been completed as part of this project.

Work Involving Particular Risks (Schedule 3 of CDM 2015)

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This aspect of the regulation will be covered on a task by task basis and this CPP, being a live document and will be updated in a timely fashion with the particular risks. Working with live electrical assets is an example which is covered under our CP606.

Temporary Works

Temporary works will be managed during the construction project and discussed with the workforce when these instances arise.

Environmental Restrictions and Existing On-Site Risks

Restrictions on Deliveries/Waste Collection Storage

Any transport of Oil will be via one of our approved contractors & a waste transfer notice will be present during the movement of this waste type. All waste will be removed on an ongoing basis, putting any debris into the associated skips, leaving all areas in a safe, clean and tidy manner.

Adjacent Land Use

As part of our works, we will use the highway as part of our work area. ENWL and its contractors will comply with the local speed restrictions and flow of traffic.

Location of Services

To be confirmed during discussions with the principal designer.

Access Restrictions

In all instances it could be a necessity to cordon off areas with herras fencing/barriers around the working area to stop other trades or factory personnel from endangering themselves.

Access/Egress will be, on routes defined by client, the work areas will be defined by a common policy with other parties working in the vicinity. As part of our works, no areas will be used that will restrict the general access of the trust to its users.

Asbestos

Hospital building asbestos registers are available from the client on request, further scope specific Refurbishment & Demolition Surveys have been undertaken and issued by Hive Projects Ltd.

It is the responsibility of the Principal Contractor to review all available Asbestos Survey information and raise it directly with Hive Projects if there are any gaps or problems. All unknown materials should be presumed to be asbestos until verified by survey.

It is the duty of the Principal Contractor to review the survey information and identify if any further survey work is required.

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Contaminated Land

It is not deemed that the land being disturbed as part of this project is contaminated.

Existing Structures Containing Hazardous Materials

Some of the buildings may contain ACM's this will be established in conjunction with the trust prior to the demolition of any building or structure.

Parking of Construction Vehicles

Construction vehicles for this project, whilst not in use may be stored off site if there are concerns regards security or alternatively locked within the laydown area detailed in the earlier stages of this CPP.

Sheeting of Construction Vehicles

It is not deemed required to sheet construction vehicles, transport of waste via skip wagons will have a netting over the spoil as to not blow waste into the local environment.

Environment Management

Waste and Effluent Discharges

Waste has been detailed earlier in this CPP.