



Construction Environmental Management Plan (CEMP)

Plane Street development of 30no. new
builds for Unity housing association

Dated - 15th March 2024

1 Introduction

The aim of the Construction Environmental Management Plan (CEMP) is to set out the responsibilities with regards to compliance with legislation and to implement any mitigation measures. This CEMP details management measures to minimise environmental impact from the construction phase of the development. The CEMP forms a framework within which the measures will be implemented throughout the project. This framework provides project-specific management measures and is a dynamic document which should be reviewed if activities or conditions onsite change that may influence management measures. This document has been developed to avoid, minimise and mitigate against any construction effects on the environment and surrounding community. It should be considered a living document with reviews being undertaken at set intervals and new information added as appropriate. For the purposes of this document, the working area is defined as any area where there will be a requirement for temporary or permanent works to facilitate the construction of the development. This includes areas required for access, temporary construction and temporary storage areas.

2 Regulatory Framework & Planning Conditions

The Construction Environmental Management Plan (CEMP). The CEMP is required to implement the core principles of the local planning and relevant UBP policies which encompass environmental controls required with due consideration to relevant environmental legislation. The CEMP provides the framework for which commitments made in the requirements of planning conditions can be realised. The CEMP outlines the contractor's approach to environmental management throughout the construction phases with the primary aim of reducing any adverse impacts from construction on local sensitive receptors.

3 Site Location & Operating Hours

3.1 Site Location

The main section of the site was formerly the location for the Stile Common Infant and Nursery School which was demolished in 2011. An additional area of land immediately to the east of the old school site is also included within the site area. An existing stone retaining wall with railings on top currently separates the two areas of the site, the retaining wall shall be demolished as part of these works. Two garages are located towards the eastern boundary of the site, these are to be demolished as part of the works. Dense vegetation is present on site in areas of the site.

The site is noted as sloping from a low point along the boundary with Plane Street and rises notably in a southwest direction. The existing stone retaining wall along the Plane Street boundary is to be retained. The rise in level from the site side of the retaining wall up to location of Plots 16 to 30 is approximately 5m. The level of the land rises more steeply in the area of the rear gardens to Plots 16 to 30, the level of the rear gardens shall be raised to meet the first floor level of these dwellings.

3.2 Construction Operating Hours [including deliveries]

The site will open at 7.30am Monday to Friday

The site will close at 17.30hrs Monday to Friday

Weekend work will only be on Saturdays between the hours of 8.00am until 13.00hrs

No work will take place on a Sunday or Public Holidays.

Generally, no construction work will commence until 7,30am, furthermore, all deliveries will be scheduled within working hours, but not between the hours of 8.00am and 9.00am, or 15.00hrs and 16.00hrs which are the school run times, whereby parents and children may pass the site entrance walking to school via the public right of way leading from Plane Street to Newsome Road.

4.0 Site Establishment & Logistics Plan

4.1 Site Establishment

Access will be off Plane Street to the north of site. We will place some hired cabins including a site office, canteen, drying room (where applicable), Toilet and storage cabins. We will establish a car park area if possible, depending on site conditions and available space. We will also designate a waste collection area for the site with tipper skips used locally to areas of works and they will be brought back to the main waste refuge area to empty them.

The muster point will be located at the site entrance with everyone evacuating site on the sounding of the fire alarm and the site manager conducting a role call with the site signing in book.

This is subject to change once we start on.

The site will have a two-way system implemented where traffic will enter site from Plane Street and use the turning head to turn around and then exit site. All traffic will be banked in and out of site.

Due to the location of the development consideration will be given to site logistics, deliveries, material distribution and construction activities to minimise the effect on the local community and school. All site facilities will be in accordance with Schedule 2 of the CDM regulations 2017.

The compound and site perimeter will be demarcated and secured by a solid construction perimeter fencing or hoarding and monitored by CCTV or manned guard where necessary. Traffic Management systems will be implemented in line with the traffic management plan (TMP) as necessary to demark site traffic routes, works access and egress, pedestrian segregation routes, footpath alterations and road and pavement closures.

This information for all of the above will be available within the site office and canteen.

4.2 Construction Traffic Measures

Traffic management measures should be observed:

- Delivery vehicles will access site via Plane Street, they will supply and remove materials from site using the varied transport links. In circumstances to reduce vehicular movements, deliveries will be made direct to the work zone to mitigate double handling and double vehicular movements.
- Delivery vehicles will not attend site between the hours of 8.00am-9am or 3.00-4pm and avoid peak public traffic hours to reduce traffic congestion and nuisance to the existing road and highway network.
- To avoid construction traffic congestion and nuisance to the surrounding area all suppliers and contractors will be made aware of traffic routes.
- Site entrances will be maintained and kept clean and clear. There will be a road sweeper in operation when required and in line with the works activities to ensure no mud is left on the live highway or accessing water courses as a direct result of the works.
- Clearly marked turning and maneuvering areas will be within the site boundary and clearly demarcated shown on the TMP.
- For environmental and road safety all materials containers leaving site will be appropriately covered to avoid soiling of the roads and highway. Engines of all vehicles, mobile and fixed plant on site are not left running unnecessarily.
- Using low emission vehicles and plant fitted with catalysts, diesel particulate filters or similar devices.
- Using ultra low sulphur fuels in plant and vehicles where possible.
- Plant will be well maintained, with routine servicing of plant and vehicles to be completed in accordance with the manufacturer's recommendations and records maintained for the work undertaken.
- All project vehicles, including off-road vehicles, will hold current MOT certificates, where applicable and where required due to the age of the vehicle and that they will comply with exhaust emission regulations for their class.

4.3 Site Material & Plant Storage

All materials will be loaded within the site compound/boundary of the working zone to minimise congestion. The materials will be stored within a material compound or within the onsite storage containers. No Plant movement will be allowed outside the site boundary unless prior arrangements are in place with the local authority. The plant expected on site includes FLT, excavators, dumpers, rollers, piling rig, mobile crane. All plant will be secured at night to prevent unauthorised use.

4.4 Site Parking Arrangements

The site parking provision will consist of a suitable area in close proximity to the site compound. Consideration will be taken to ensure the area is located in an area programmed to be developed towards the latter stages of the construction phase of the development. The car park area will change throughout the construction phase of the project to meet the required number of operatives on site. The car park will be clearly displayed on the site TMP located in the site office and canteen. The details will be explained to all personnel during their site induction process.

4.5 Erection & Maintenance of Security Hoarding

The site will be secured by a mix of solid hoarding and heras temporary fence panels. Relevant pedestrian and vehicle access gates will be incorporated to meet the site and health and safety regulation requirements. The delivery and personnel access gates will be controlled by the Site Management team. The site will also have a CCTV system installed and a guard if required. The fencing will be maintained to a high standard throughout the development and will be checked, maintained in line with temporary works procedures and recorded within the site managers weekly site tour.

4.6 Crane Position

Crane use on this development will be minimal and the works nature is short duration. Considerations will be made in regard to the crane size and time restrictions when programming the works on site. All crane lifting procedures are regulated via a lifting plan completed by qualified personnel.

4.7 Temporary Lighting

Due to the nature of the works and surrounding residential properties no perimeter lighting will be provided, the lighting will be provided by existing streetlights. Task lighting will be used on a need-by-need basis in the form of florescent strip lighting, this lighting will be switched off during non-working hours.

4.8 Access to Existing Properties & Business

The current proposal considers the possible impact on any local schools, residents and businesses in the immediate area, management procedures are in place to minimise them. Residents and businesses will always be given priority, deliveries and heavy works will be prohibited between the hours of 8.15-9.30 and 2.45-4.00. The specified hours will be communicated to the workforce and delivery companies from inception to completion of the development.

4.9 Faced Access

Plot perimeter scaffold will be required throughout the development to allow construction works to progress. The scaffolds will be designed and erected by qualified competent operatives in line with legislative erecting and dismantling methods. The scaffolds will be inspected by a competent person at practical completion and following any break in site presence and after adaption. All works will be undertaken within the site boundary.

4.10 Construction Methods

The method of construction of the plots will consist of:

- Road sewer formation from Plane Street into site
- Installation of gully protection to prevent detritus discharging from site
- Foundation- To be constructed in line with consultant's design and recommendations.
- Block and beam slab floor construction
- Traditional brick and block external envelope
- Timber trussed roof with a felt and concrete tile covering.
- Upvc window and door systems
- Internal timber walls clad in plasterboard with plaster skim finish.
- Internal finishing's
- External plot service installation, footpath formation and plot landscaping.
- Topping of footpaths and highways
- Adoption by local authority

5.0 Construction Programme

5.1 The detailed

Construction Programme will be made available for review in the site office.

5.2 The key dates presented in the programme are as follows:

Key Stages Date Project Start: 3rd Jun 2024

Site Access: 3rd Jun 2024

Compound Setup: June 2024

Project Completion: October 2025

6.0 Roles & Responsibilities

6.1 The Site Manager is responsible for:

- Ensure the site and all stored materials and chemicals are safe and secure.
- Ensure F10 notice, signage indicating where and whom visitors should report to are clearly displayed.
- The site is kept in a tidy and orderly fashion. Waste will be managed in conjunction with Ellison ConstructionLtd procedure as applicable.
- Controlled access arrangements as so those entering site may avoid hazards.
- Emergency egress arrangement so those leaving site in the event of a pollution or spillage incident may do so safely.
- There are First Aid Facilities and appropriately trained First Aid staffs, spill kits are available and appropriately trained staff.

Ensure all those that work on site:

- Have a Ellison Construction Ltd Site Induction including briefing on environmental issues pertinent to theproject and relevant toolbox talks.
- Understand and obey the Site Rules.
- Are made aware of the Emergency egress arrangements, Muster points, First Aid facilities and First Aiders, spill and clean up procedures.
- Read and understand the site hazard board.
- Have current certification for activities as required.
- Are aware of all environmental matters which arise on site.

Ensure the activities on site:

- When necessary are carried out under Client Operational Safety Rules.
- Have, task specific risk assessments and method statements (RAMS) in place identifying any environmental issue which may be applicable.
- Are carried out in accordance with the requirements of any associated RAMS.

6.2 The Contract Manager is responsible for: -

- Ensuring that the CEMP is developed & held on site and that it is implemented throughout all phases of the project. Ensuring the CEMP details are updated as and when relevant information is provided.
- Maintaining the CEMP and ensuring that all contractors and visitors comply with it.
- Ensuring that environmental issues identified within the Pre-Construction Information and the pre-construction site surveys and relevant information gathered from agencies, local councils etc are addressed.
- Producing environmental project specific controls for all significant risks identified and implementing control measures to minimise the risk of damage to the environment.
- Communicating the CEMP and other related document to employees, contractors and client representatives.

6.3 Contractors and visitors to the project will be responsible for: -

- Ensuring that the control measures identified from environmental surveys are implemented as they are relevant to their work / visit.
- Ensuring that the project management team are notified of any nonconformance of control measures or environmental incident where the environment has been put at risk.

6.4 The site HSEQ Advisor is responsible for:

Ensuring work is carried out:

- In a safe manner.
- In accordance with any manufacturers' instructions etc., good standards of workmanship.
- Ensure site staff are working in accordance with agreed Risk Assessments and Method Statements (RAMS) particularly where activities have the potential to cause environmental harm.
- Health and safety advisor to complete the site waste management plan and ensure it is followed.
- Ensuring that the CEMP is implemented throughout all phases of the project.

Monitoring HSEQ issues by:

- Weekly checks and “toolbox talks” carried and recorded.
- Weekly site audits.
- Consulting workers on the effectiveness of measures to reduce risk to the environmental, reviewing and improving conditions or methods/procedures where appropriate.
- Keeping records of and reporting any incidents and close calls (near misses).

7.0 Contractor & Visitor Information

7.1 General Information

All contractors and visitors to the site will be made aware of the Site rules, Environmental policy, and the controls applicable to their presence and activities on site including but not limited to:

- Method statements
- Risk Assessments
- Site induction which include Environment briefings
- Toolbox talks.

7.2 Information Management

The Site Manager and Contracts Manager will be responsible for monitoring communications between all relevant parties to the project ensuring that all environmental matters to the project are discussed and managed and observation of the communications will be documented in the weekly site meetings and sent by e-mail.

A noticeboard will be erected at the entrance to site which will be updated weekly with ongoing works and other relevant information to nearby residents and those coming onto site. Where works will be disruptive to residents, notice will be given on the board paired with a letter drop to those most likely to be affected. The contract manager and site manager’s numbers will be displayed on the noticeboard and disseminated via a letter drop prior to commencement, should any nearby residents need to contact either directly with comments or complaints during the build.

7.3 Displayed Information

Relevant site contacts, developer contacts, layout, and location plans/ CDM drawing detailing the location and construction of the site compound, storage locations and car parking are to be displayed on an information board at the site entrance.

8.0 Environmental Site Assessment

An Environmental site assessment has been undertaken on behalf of Ellison Construction Ltd by the relevant consultants. This assessment and subsequent reports were completed to satisfy the requirements outlined for planning permission and the national planning policy framework (NPPF).

The assessment examined the following:

- Noise & Air Quality
- Archaeology & Cultural Heritage
- Landscape & Land Use
- Ecology
- Geology & Soils
- Materials
- Community Effects & Vehicular Travellers
- Drainage & Water Environment
- Waste
- Sustainability

9.0 Ecology Assessment

This development has had an Ecological Survey, considering key features and habitats within the phase of construction and mitigation in accordance with the principles in the approved Protected Species Mitigation Strategy, this is to be submitted to and approved in writing by the Local Planning Authority. The development of that phase is to be completed thereafter in accordance with any mitigation measures (a Protected Species Mitigation Scheme) required by the submitted survey.

The survey examined the following:

- Bats
- Badgers
- Reptiles
- Great Crested Newts
- Birds
- Trees & Woodland
- Invasive & Injurious Plant Species

The results of this can be found in the report which will be issued separately.

10.0 Monitoring

10.1 Site Waste Management Plan

A site waste management will be operated to enable the recording and monitoring of all waste streams, recycling, energy consumption and FSC timber usage. The information obtained can be used against industry benchmarks to record actual waste production with a view to implement waste minimisation actions, forecast waste amounts and produce duty of care notes. All waste streams will be segregated where possible on site before being removed by a licensed carrier. Any mixed waste will be processed at a licenced transfer station to segregate and assist with recycling/reusing waste to avoid land fill.

10.2 Air Quality Plan

Dust generated through all work activities will be controlled at the source, so far as reasonably practicable using recognised methods and in line with legislative requirements. With the site sitting at a higher elevation than the opposite occupied properties, all ground is to be damped down prior to excavations to avoid dust blowing downhill and affecting neighbours.

10.3 Control of Detritus

To control material being transferred onto local roads or accessing water courses at the development's infancy appropriate measure when installing sewers and forming roads need to be implemented, Bunting, and tinkering of existing sewers, a wheel wash facility, scraping of roads once formed, installing driveways to plots and applying an appropriate planned TMP. Further controls to gully's will be installed, a filter bag system that will be maintained regularly.

10.4 Vibration & Noise

Risk Assessments and Method Statements (RAMS) from contractors will be scrutinised and authorised before work commences to ensure the requirements Noise and vibration statutory nuisance are controlled under the Environmental Protection Act 1990 are understood, factored into working methods, and adhered to.

Due to the proximity of neighbouring properties on the opposite side of the road, solid hoarding is to be used across the front of the site to screen as much noise as is possible.

Site working hours are as previously stated. Contractors and operatives should not arrive before or leave after the set site hours. Loud machinery must not be started up prior to 730hrs or be used later than 1700hrs. Saturday working should be avoided where possible and loud machinery is not to be used prior to 830hrs or after 1200hrs. Bank holiday working is not permitted. Deliveries must always be between the above hours.

The installation of an adoptable road will require the use of vibrocompaction. The use of this method must be limited to when entirely necessary and neighbours must be given prior warning

through use of noticeboards and letter drops when this unavoidable practice is being utilised.

10.5 Water Consumption

Reduce the risk of uncontrolled water use: e.g. sensor-actuated devices (such as infra-red actuated taps and occupancy sensors). Minimise the risk of leakage: leak detection equipment (including pulsed meters for regular monitoring); ensure valves and overflows are visible for early detection of water loss and easy to access for maintenance. Influence user behaviour: Creating a culture that changes attitude and behaviour to accepting ownership of water efficiency is fundamental to improving the use of water in an efficient manner. Good housekeeping (e.g. reporting/repairing leaks, turning off taps which are not in use, and generally using water in an efficient manner) can assist the site reduce its overall water use. The provision of information on appropriate use of fittings and appliances; awareness raising of the costs and environmental importance of water efficiency via Toolbox Talks; guidance on processes for identifying and reporting water leakage /poorly performing fittings; method for providing feedback to building occupants on water.

11 Public Relation Initiatives

11.0 Local Charity Work

Ellison Construction Ltd as a company involve themselves with community charities, fund raisers are undertaken, and the proceeds are donated to a local charity of choice within the vicinity of new sites.

11.1 Community Schemes

Where required by the client, Ellison Construction Ltd will register the site on the Considerate Constructors Scheme to promote the Code of Considerate Practice, designed to encourage best practice beyond statutory requirements and improve the local area that the development is located

