The CEMP provides the framework for which commitments made in an Environmental statement or any 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.

3.0 Site Location & Operating Hours

3.1- Site Location

The proposed residential development is refurbishment and sub-division of existing house to form one two bedroom and 2no one bedroom apartments and erection of a two storey side extension to form 2no two bedroom apartment, with access, parking and associated landscaping.

The Site is in Waterlooville and within the administrative boundary of Havant borough council. The site is situated approximately 1km south of the centre of Waterlooville. The plot extends to 0.085 hectares (and comprises of a residential house and parking. The site is bounded to the north by a Public House (The Fox and Hounds) and residential properties to the west. In terms of the local highway network, the site access is via the turn spur off Durham Gardens, a residential cul-de-sac giving access to Stakes Hill Road and from there to the A3(M) and the M27

There are no hospitals or care homes within 200m of the development boundary, however St Peter's Primary school is within 200m of the south boundary of site.

The Figure below refers to the proposed development detailed above.

CONTENTS

Section Topic

1.0 Introduction

2.0 Regulatory Framework & Planning Conditions

3.0 Site Location & Operating Hours

4.0 Site Establishment Plan

5.0 Construction Programme

6.0 Roles and Responsibilities

7.0 Contractor & Visitor Information

8.0 Environmental Assessment

9.0 Ecology

10.0 Monitoring

11.0 Public Relation Initiative

1.0 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 on site 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

2.0 Regulatory Framework & Planning Conditions

The Construction Environmental Management Plan (CEMP), is required to implement the core principles of the local planning and relevant Havant policies which encompass environmental controls required, with due consideration to relevant environmental legislation.

The CEMP provides the framework for which commitments made in an Environmental statement or any 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.

3.0 Site Location & Operating Hours

3.1- Site Location

The proposed residential development is refurbishment and sub-division of existing house to form one two bedroom and 2no one bedroom apartments and erection of a two storey side extension to form 2no two bedroom apartment, with access, parking and associated landscaping.

The Site is in Waterlooville and within the administrative boundary of Havant borough council. The site is situated approximately 1km south of the centre of Waterlooville. The plot extends to 0.085 hectares (and comprises of a residential house and parking. The site is bounded to the north by a Public House (The Fox and Hounds) and residential properties to the west. In terms of the local highway network, the site access is via the turn spur off Durham Gardens, a residential cul-de-sac giving access to Stakes Hill Road and from there to the A3(M) and the M27

There are no hospitals or care homes within 200m of the development boundary, however St Peter's Primary school is within 200m of the south boundary of site.

The Figure below refers to the proposed development detailed above.

3.2- Site Operating Hours

The proposed operating hours are outlined below.

During the construction period it may be necessary in exceptional circumstances to work outside the prescribed working hours. Should this occur, the hours and duration of these works will be subject to consultation with Ribble Valley Borough Council.

Official site working hours would be:

- Monday – Friday: 8.00am - 6:00pm
- Saturday 8:00 – 2:00pm
- Sunday/Bank Holidays: No Work

In order to maintain these working hours, contractor(s) will require a period of 30 minutes before and at the end of the working shift to start up and close down the works activities.

4.0 Site Establishment & Logistics Plan

4.1- Site Establishment

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 schools.

The scheme will comprise office and welfare facilities for the Contractors staff, sub-contractors, visitors and the client. The facilities will consist of an office with meeting room, a canteen, drying rooms and WCs. 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.

4.2- Construction Traffic Measures

the following traffic management measures should be observed:

- Delivery vehicles will access site via Durham Gardens, they will supply and remove materials from site whilst avoiding double handling and double vehicular movements.
- Delivery vehicles will not attend site between the hours of 8.15am-9am or 2.45-4pm and avoid peak public traffic & schools 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 entrance 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 manoeuvring areas will be within the site boundary and clearly demarcated.
- 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. 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 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 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. 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 street lights. Temporary lighting will be required within the compound and will be managed via timers to minimise the effect on surrounding residents. 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 the local school, 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

Scaffold will be required through part of 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:

- Installation of gully protection to prevent detritus discharging from site
- Foundation- as recommend by the structural engineer consultant and as considered suitable for this site. No radon protective measures are required.
- Block and beam slab floor construction
- Traditional brick and block external envelope
- Timber trussed roof with a felt and clay 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.

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

Will be presented in the programme are as follows:

Key Stages Date

Project Start	December 2022
Site Access	January 2023
Compound Setup	January2023
Compound Decommissioning	December 2023
Project Completion	January 2024

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 clear
- The site is kept in a tidy and orderly fashion. Waste will be managed in conjunction with site procedure as applicable.
- Controlled access arrangements so that 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 and appropriately trained staff. are available

Ensure all those that work on site:

- Have a Site Induction including briefing on environmental issues pertinent to the project 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. 9 #
- 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
- Tool box 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.

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 included in the Design and Access Statement together with 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
- Materials
- Community Effects
- Drainage & Water Environment
- Waste
- Sustainability

9.0 Ecology Assessment

This development has had an Ecological Survey detailed in section 8, 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 has been submitted to the Local Planning Authority at Planning stage..

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

The Ecology assessment findings concludes that there is no ecological value to flora or fauna. No evidence of habitats or favourable conditions are present for protected species. It is recorded that the development would not have a negative impact on the mature trees that have been identified as category B due to their proximity to the proposed works.

The report's suggestions for enhancing biodiversity would be incorporated in the Landscape design.

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.

10.3 Control of Detritus

To control material being transferred onto local roads or accessing water courses appropriate measure when installing sewers and access need to be implemented,

Bunging and tankering of existing sewers, a wheel wash facility, installing footpaths to plots will be applied.

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.

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 Tool Box Talks; guidance on processes for identifying and reporting water leakage / poorly-performing fittings; method for providing feedback to building occupants on water.

11.0 Public Relation Initiatives

11.1- Community Schemes

Where required by the client M.A.Wright 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 in which the development is located.