



Construction and Environmental Management Plan (CEMP)

Bremore Castle Car Park

November 2023

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1. Introduction

Fingal County Council proposes to develop at Bremore Castle Car Park, Drogheda Street, Balbriggan, Co. Dublin, a 125no. space car park, including 9no. universally accessible parking bays; provision for 19no. electric vehicle parking bays; bicycle parking for 64no. bicycles and landscaping. The proposed development works are within the boundaries of the current temporary car park.

The work activities will be carried out in accordance with the Safety, Health & Welfare at Work (Construction) Regulations, 2013. FCC will appoint in writing a competent contractor(s) to perform PSDP and PSCS duties for the design & build contract for this construction project.

The Construction & Environmental Management Plan outlines the procedures to be followed to ensure the minimal impact of the construction activities on the surrounding school, residential communities and the general public. The plan considers the safety of personnel carrying out the work, visitors to site and any unauthorised persons obtaining access to site.

The Construction & Environmental Management Plan is to be read in conjunction with the Health & Safety Management Plan for the site and the task specific Method Statements for the works, which will be prepared and amended during the construction phases of the project. These will form part of the overall H&S management system practiced by Fingal County Council.

During the project all site access points, footpaths and roadways will be maintained in a satisfactory condition and the works carried out in such a manner as to cause minimum inconvenience to adjoining school, public areas and road users.

It is Fingal County Council's Health & Safety policy, to provide and maintain a safe and healthy working environment to all involved with the project. Fingal County Council recognizes its duty to comply with the Safety, Health & Welfare at Work Act 2005 and Safety, Health & Welfare at Work (General Application) regulations 2016 and Safety, Health and Welfare at Work (Construction) Regulations 2013 and associated legislation and codes of practice.

The project will be notified to the H.S.A online by submitting the forms AF1 and AF2 prior to the design & construction stages.

2. Description of Project

The Bremore Castle Car Park works includes:

- Construction of internal roadway with porous asphalt and permeable paving parking bays (grass & concrete paving system or similar).
- 125 no. car parking spaces including 9 no. universally accessible.
- 19no. EV ready parking bays including 5no. universally accessible EV parking bays.
- Bicycle parking for 64 no. bicycles including sheltered spaces and infrastructure for shared bike schemes, cargo bikes and adapted bikes.
- LED public lighting throughout the car park to an approved public lighting design.
- Landscaping works to include trees planted in constructed tree pits, pollinator friendly plant species for raingarden plantings and soil regrading.
- All ancillary Site Works including electricity, pedestrian and bicycle path connections.

The proposed development consists of a public car park within the existing site boundaries with a commencement date subject to confirmation of permission and available resources to deliver the project. The project will be carried out to maximise construction related efficiencies and to minimise impact on the public. The proposed location for the main site compound will be in the works yard within the castle boundary to the north at the entrance from Bells Lane.

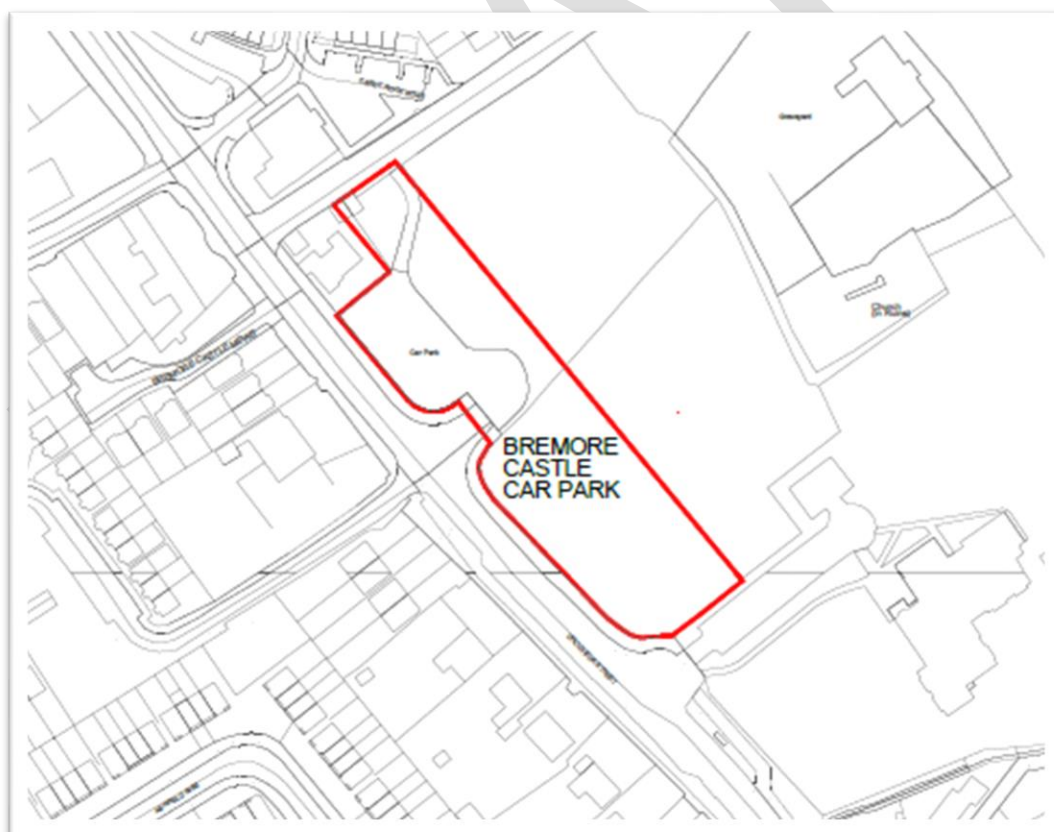


Image 1 - Proposed Site Location & Works area shown inside the red line

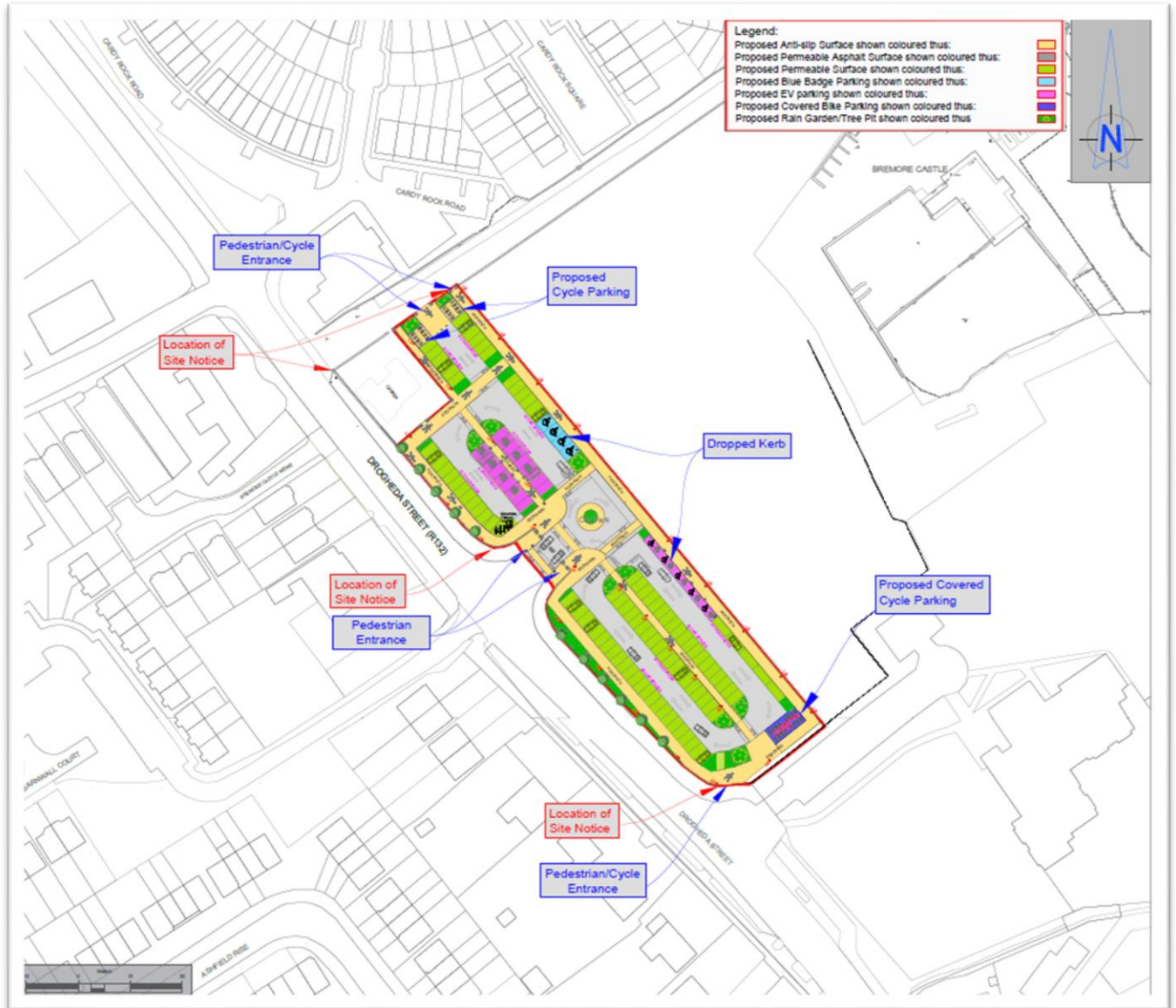


Image 2 – Proposed Site Layout

3. Restrictions on Working Hours

The commencement date on site is subject to receiving the resources to deliver the project. A full program of works will be available in the site office throughout the project.

Restrictions will be in place regarding weekend work, construction hours and public holidays in order to minimise the impact on schools, adjoining residents and park visitors.

The proposed working hours on the site are:

- 8.00am to 6.00pm Monday - Friday

There will be no work on site on weekends or Bank Holidays, unless otherwise agreed in writing with Fingal County Council.

Public Holidays Republic of Ireland

January – New Year's Day

February – St. Brigid's Day (first Monday)

March – St. Patrick's Day (17th)

April – Easter Monday

May – May Day (first Monday)

June – first Monday

August – first Monday

October – last Monday

December - 25th Christmas Day & 26th St. Stephen's Day

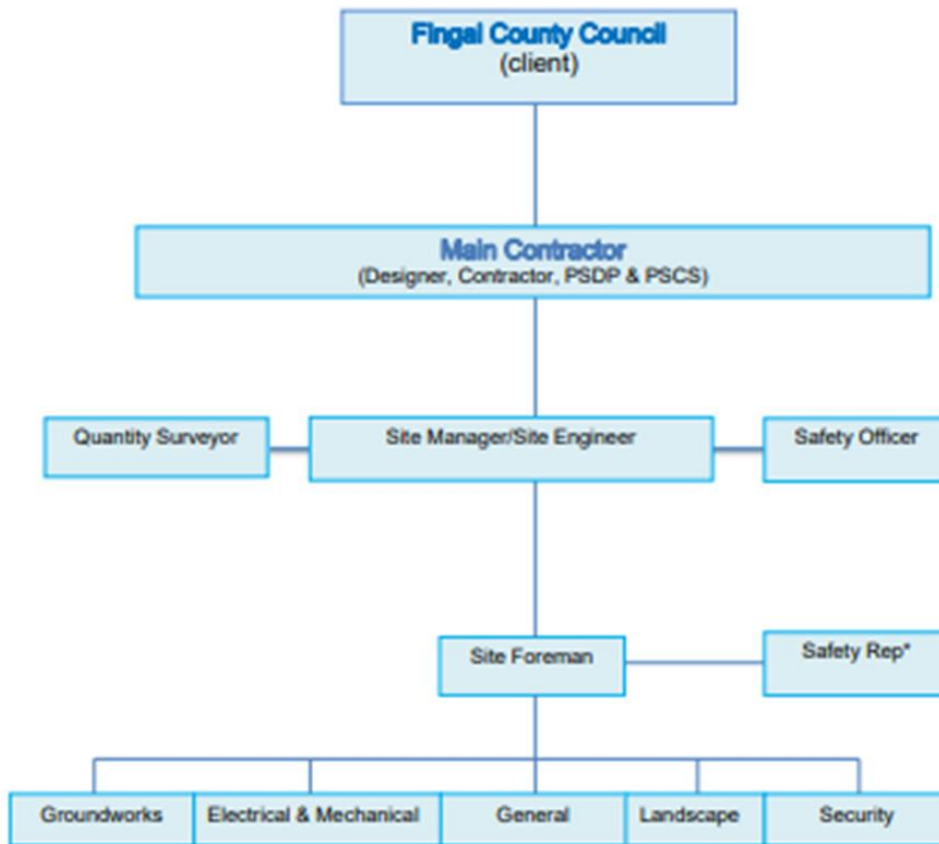
4. Recommendations for Habitat Conservation & Archaeology

In accordance with Section 40 of the Wildlife Act 1976 and amended by the Wildlife Amendment Act 2000 and Heritage Act 2018, removal of any vegetation must occur outside the period beginning 1st March – 31st August in any year (exemptions may apply), in order to protect existing bird nesting and bat roosting sites. Appropriate arrangements must be implemented to protect retained vegetation during construction works.

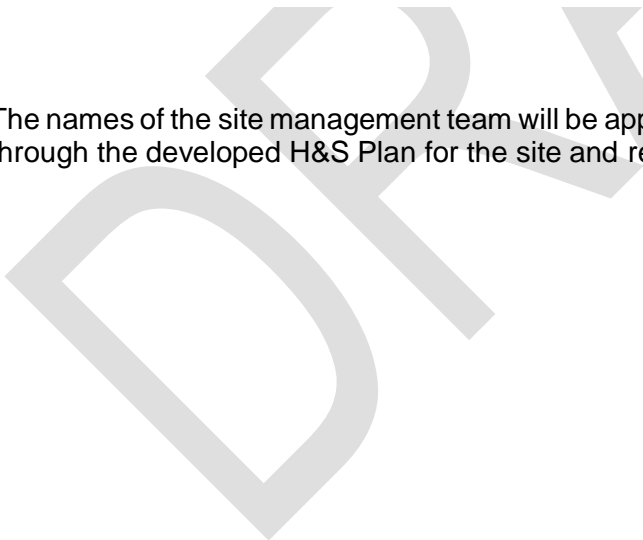
The proposed works is located close to Bremore Castle. The Bremore Castle site includes recorded monuments and 2no. protected structures. The protected structures include the late medieval St. Molaga's (in ruins) Church & Graveyard and Bremore Castle a reconstructed 16th century fortified house with a five-storey tower.

No works are proposed near the protected structures which are located outside the site area. The appointed contractor shall implement relevant archaeological monitoring and protection guidelines including relevant guidance notes on procedures under the National Monuments (Amendment) Act 2004.

5. Project Management Organisational Chart



The names of the site management team will be appointed at a later stage and will be updated through the developed H&S Plan for the site and regularly updated throughout the project.



6. Site Set Up

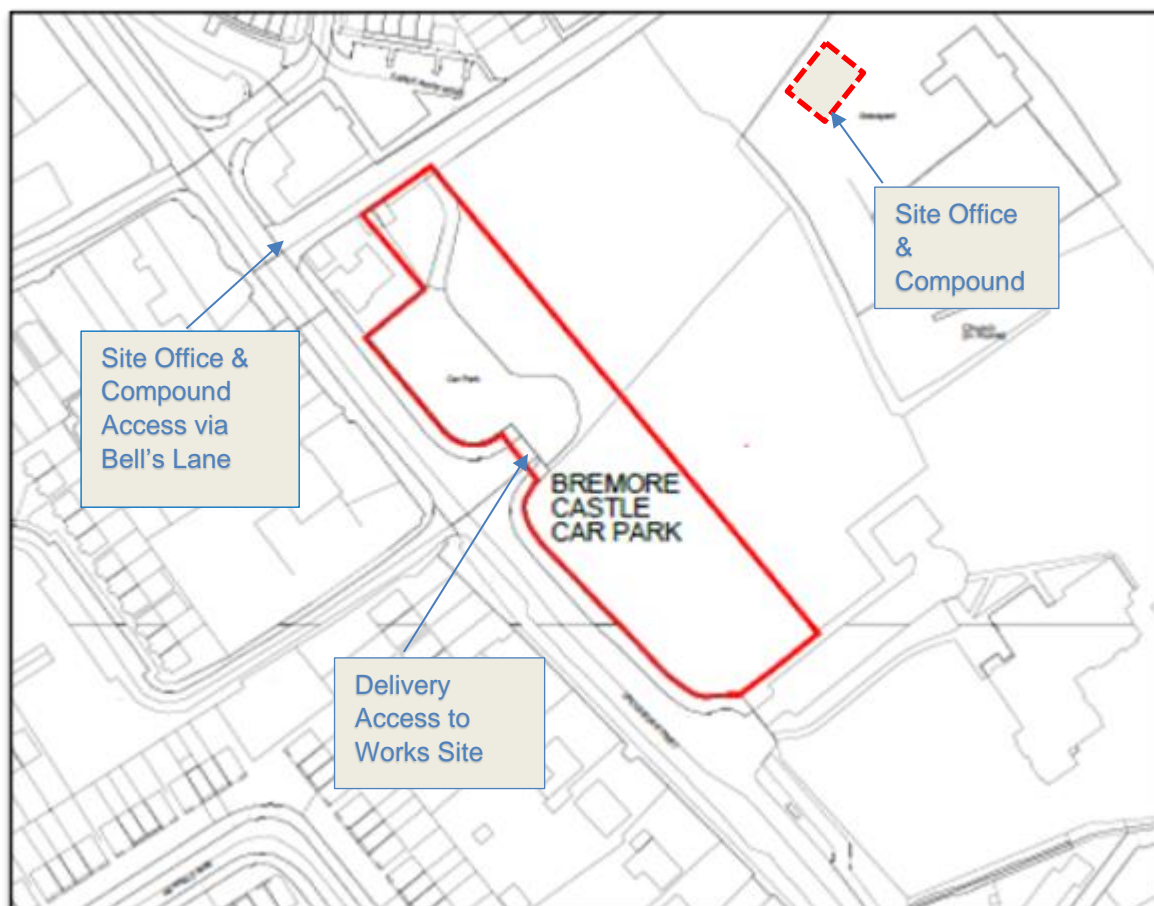


Image 3 – Proposed Site Set Up at Bremore Castle Car Park

The proposed site set-up is shown in Image 3 (above). The site office access is from Drogheda Street via Bell's Lane to the existing works yard with access to the works area via the gated entrance directly off Drogheda Street.

The construction works will be separated from the surrounding lands by the erection of a temporary panel fence fixed to concrete Kelly Blocks (or equivalent) around the construction boundary as necessary to prevent access to the works area.

The Site Compound

A site office and contractor parking area will be established within the existing Works Yard accessed from Bell's Lane as shown in Image 3 (above). This will ensure there are no parking requirements outside the site boundary on adjacent roads, streets or residential areas.

The site compound consists of the following:

- Site Parking approx. 6 cars/vans
- Site office
- Canteen, complete with fridges and facilities for boiling water and heating food.
- Toilet block
- Drying room.
- AED / First Aid Station

The site set up will be complete prior to commencing construction work.

Signage

- Signage will be erected on the outside of the site and on the public road approaching the site entrance.
- The site access points will be clearly highlighted to warn members of the public vehicular and pedestrian traffic passing the site.
- Access controls will be posted at access points and clear signage displayed to this effect.
- General Warning and “Keep Out” signage will be displayed on site boundary.
- General warnings and safety signage will also be displayed within the site boundary.
- Identification of vehicle access point.
- Identification of the Pedestrian access point.
- Visitors report to site office.
- Location of parking
- Location of the site offices
- Location of First Aid Boxes and equipment.
- Speed limit signage 15KPH
- Warning live services
- Wear PPE
- General construction site warning signage.
- Directional signs to the site compound.
- Covid related signage as appropriate



Construction Site Lighting

The external lighting will be limited to the site office & works yard area to provide lighting for access and egress to and from the site. The works lighting will be directed down locally to the required areas and at no stage will site lighting be directed at existing public access areas.

Site Security

Additional secure fencing is to be erected within the site, this will be erected at the following locations:

- Between the public pedestrian access on Bell's Lane and the construction works.
- Between the existing car park entrance and the live construction area.
- Between the existing works yard and the live construction works.

Parking

A designated parking area will be provided in the existing works yard as shown on the Site Set-Up plan (Image 3 above). It is proposed to cater for up to 6 cars /vans in this area to minimise the disruption to the local amenities and parking facilities.

Parking is not permitted in the following areas.

- any other area of the site
- on the public roads
- within local housing areas.
- At adjoining sports facilities

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7. Site Traffic Management

A traffic management plan will be prepared prior to and updated throughout the project. All site access will be through the existing entrances as explained above. These will be the only vehicle access points to the site for deliveries and car parking.

A road sweeper and water bowser will be available to the site to ensure that Drogheda Street is maintained free from mud and other debris from vehicles exiting the site.

The site access points will be staffed by the main contractor's personnel. Site visitors will be directed to the site compound and construction traffic will be directed to access the construction works area. The works supervisor must notify site management if vehicles exiting the site are depositing mud or debris on the public road. The nominated main contractor/s will ensure the maintenance of the public road and footpath, to prevent a build-up of mud or waste being dragged out onto Drogheda Street. A combination of washing down vehicles and road sweepers will be used.

Signage will be posted along Drogheda Street indicating "Construction Access Ahead" from all directions. The property boundary along the length of the construction works will be securely fenced off at all times with secure fencing as required.

Operating one access point to the works area minimises the interaction with public pedestrian and vehicle traffic. The site access will be set in off the public road and footpath to avoid the build-up of traffic and to avoid large vehicles blocking the access.

A banks man / spotter will be used with vehicles when reversing or moving within the site. This will be the responsibility of the appointed individual contractor. Deliveries and removal of waste will be managed daily to ensure the minimum amount of materials and waste are on site at any time.

Materials will be stored in a designated storage area on site suited to the ongoing works. Vehicle access is provided along a hard standing to reduce the amount of construction waste and mud attaching to vehicles.

It is planned to reuse any soil and stone during the construction works. This will reduce the volume of construction traffic in the local areas. The traffic management plan will be updated throughout the project works stage.

The proposed security system will ensure all access into and out of the site compound is monitored.

8. Site Clearance Works

There were no invasive species identified in the proposed construction site area. Further assessment for invasive species should be undertaken prior to any construction works on site. All construction work will be carried out by an appointed competent contractor in accordance with their proposed safe system of work. The sequence of work will ensure any services, roads, pathways etc. are in place to minimise the build-up of mud and soft ground throughout the project.

9. Waste Management

In the course of the construction phase, if waste removal is required, the information and volumes will be provided by the main contractor in a "Waste management Plan". If entry into excavations is required, a detailed method statement and risk assessment must be submitted by the specialist contractor and form AF3 is used to record inspections of excavated banks on the site.

It is intended to avoid removal of stone and soil from the development using the excavated

materials for green areas. This proposal will significantly reduce the volume of traffic into and out from the site. General waste will be separated into covered skips on site for removal by licensed waste companies.

All permits and waste records will be maintained on site with projected volumes provided in the waste management plan.

10. Noise

The appointed Site Manager will ensure all noise levels in the working area is monitored around the site perimeter and within the site, with the relevant appropriate action to reduce the noise emissions, implemented once the noise levels are known.

Site management will be fully aware of the location of the construction works in relation to the neighbouring residential and public areas and will take all appropriate measures to reduce noise emissions from the site. These include but are not exclusive to:

- Working within the stated hours.
- Shutting down plant when not in use,
- Keeping covers on compressors and other plant closed.
- Managing work activities and work sequences to minimise noise exposure.
- Use of well-maintained and certified plant and machinery.
- Ongoing noise monitoring on site and around the perimeter.

11. Dust

The appointed Site Manager will take all necessary measures to reduce high dust levels on site. While levels of dust cannot be eliminated, the main contractor/s will implement the process of wetting down the area to keep dust at ground level this will be particularly important in the following times:

- Throughout the site development works.
- During ground stabilisation works.
- During summer, due to drier weather wetting down and high levels of housekeeping will minimise rising dust.
- When using abrasive wheels. All cuts with Con saw / grinder will be subject to water suppression to minimise rising dusts.
- Site personnel will wear dust masks when sweeping out finished areas / dust generating activities.
- The company housekeeping policy will be implemented with all trades to minimise the creation of dusts and waste on site.

The nominated main contractor will have a water bowser available to the site for use to wet down the internal site areas during extended dry spells.

12. Excavation Safety

Excavation work is essential for the completion of this project. The following control measures are required to be met on site to ensure the safety of work in excavations on site.

- All excavation work is carried out by the specialist contractor appointed to the project
- Task specific method statements and risk assessments are carried out for each task.
- Soil surveys and ground exploration are carried out prior to commencement of any work on site and the results communicated to the tenderers of the project to ensure the hazards and risk controls are priced into the contractor's fees.
- Site safety management will observe and monitor excavation work on site.
- AF 3 forms will be used where required to record inspection of all excavation works on site.
- A combination of trench boxes and support systems are required to provide safe systems of work for entry into excavations.

13. Public Safety

The following key points are to be followed in order to address the public safety issues in the local area.

- A full traffic Management plan will be prepared to manage traffic on the site including Bells' Lane and Drogheda Street throughout the project.
- The access gate to the site will be attended to by the main contractor's personnel.
- The construction site will be secured at the end of each working day by locking the entrance gates to the site. Warning signs will be erected all around the perimeter of the site.
- A security system will be in place throughout the site compound outside of working hours
- The site will be secured on all sides by secure boundary protection
- A diligent housekeeping policy will be operated to prevent a build-up of waste and construction materials.
- Noisy works must be kept to a minimum and the contractors must comply with the Safety, Health & Welfare at Work (General Application) Regulations 2016
- Dusty works will be kept to a minimum.
- The public roads and footpath will be monitored on an ongoing basis to ensure the waste or debris will not create a hazard on the public road
- Work on public roads will be carried out after careful planning, a traffic management plan, method statement and road opening Licence are in place if required
- All traffic management works will be set up and managed by persons trained to CSCS Signing, Lighting and Guarding at Roadworks.
- Vehicles will be banked in the direction of movement when exiting the site into public access areas.
- Site hazards such as excavations and scaffolding will be left in a safe and secure manner.

Excavations will be backfilled or fenced off.

- All chemical agents and other harmful substances will be stored in a locked container with in the secured site compound.

14. General Precautions

Site management have a responsibility to ensure, as far as is reasonably possible, the safety of visitors and contractors while on the site. To that end the following policies will apply:

- All visitors must be briefed on the hazards relating to the site.
- All plant operators will be trained to CSCS standard prior to commencing work.
- All scaffolding will be erected by trained professional scaffold companies.
- Fingal County Council's nominated Project Supervisor (Design Process & Construction Stages) will ensure adequate safety resources and full-time supervision of the works on site.
- Access control systems will be established at the site entrance.
- Security is on site at the site entrance. All persons and deliveries entering the site must sign in at security prior to continuing.
- All worker and visitor access to the site office/compound is achievable without accessing the construction site area.
- Fingal County Council's nominated main contractor's personnel will accompany visitors or other designated persons, while on the site.

- Visitors are to be made aware and obey the site safety rules and emergency procedures e.g., the wearing of personal protective equipment, respect for the neighbours to the property, etc.
- All sub-contractors on site will be inducted and must sign off their method statements before commencing work. Records of training must be on file and up to date.
- All weekly inspections of scaffold, work at height equipment, plant and machinery and excavations are displayed in the site office and updated as required.

15. Summary

The overall construction stage Health & Safety Management Plan including risk assessments will be prepared in advance of the construction works commencing.

The H&S Plan will continue to be developed by the appointed Project Supervisor Construction Stage throughout the project as the project progress.

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