

Preliminary
CONSTRUCTION MANAGEMENT PLAN

**ELECTRIC VEHICLE FAST-CHARGING HUB & COFFEE
DRIVE-THRU FACILITY DEVELOPMENT**

at

TOOTHENHILL, RATHCOOLE, Co. DUBLIN

PREPARED BY:

JA GORMAN CONSULTING ENGINEERS

FOREST PARK, MULLINGAR, CO. WESTMEATH

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INTRODUCTION

The project involves the construction of an Electric Vehicle fast-charging hub and coffee drive-thru facility on lands at Tootherhill, Rathcoole, Co. Dublin.

This Construction Management Plan has been prepared in compliance with Regulation 16 (a), Part 2 of the Safety, Health and Welfare at Work (Construction) Regulations 2013. This document will be prepared in consideration of information included in the Preliminary Safety & Health Plan (which will be undertaken once JAG are appointed PSCS) and consultation with the Client appointed project management team.

Additional precautions will be taken to prevent fire, accidental damage to property and equipment, and to minimise interruption to the client and the environment in general. Safety will be an integral part of the Project Management Strategy and effective safety policies will be prepared and implemented to prevent accidents and incidents occurring. All employees, sub-contractors, self-employed persons, suppliers, and visitors will be obliged to co-operate with and comply with the provisions of this safety plan.

The appointed contractors must accept and agree to comply with the details set out in this Construction Management Plan. Failure to abide with the provisions of this plan will result in cessation of work.

SITE MANAGEMENT TEAM

Principal Contractor	-	To be appointed by Client (Post Planning)
Contracts Manager	-	To be appointed by Project Manager
Site Engineer	-	To be appointed by Project Manager
Site Foreman	-	To be appointed by Project Manager
Safety Officer	-	To be appointed by Project Manager

SITE ADDRESS

Toothenhill, Rathcoole, Co. Dublin.

PROJECT COMMENCEMENT DATE

Date to be confirmed.

CONTACT DETAILS

CLIENT INFORMATION

Petrogas Group Ltd.,
17 Joyce Way,
Parkwest,
Dublin 12.

Tel: 01-5124800

PROJECT MANAGERS

J.A Gorman Consulting Engineers Ltd.
Unit 1, Block B,
Forest Park,
Mullingar,
Co. Westmeath.

Tel: 044 9347338

ENGINEERS

J.A Gorman Consulting Engineers Ltd.

Unit 1, Block B,
Forest Park,
Mullingar,
Co. Westmeath.

Tel: 044 9347338

EMERGENCY CONTACT NUMBER

Fire Brigade: 999

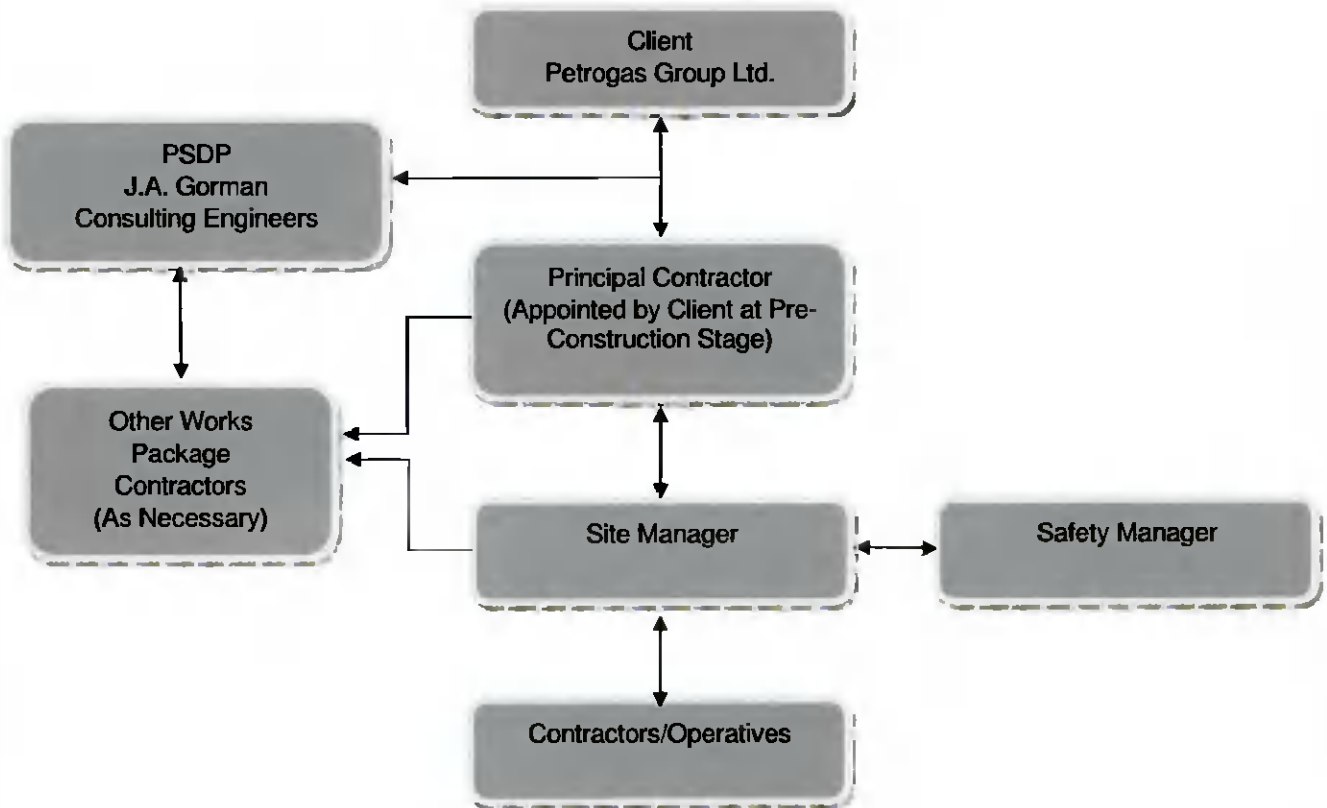
Gas Emergency Number: 1850205020

Rathcoole Garda Station: 01-666 7900

Tallaght Hospital: 01-414 2000

MANAGEMENT OF WORKS

MANAGEMENT STRUCTURE



HEALTH & SAFETY GOALS

The Client and the Project Team has the goal;

- To complete the project with due regards to the health, safety and welfare of all parties directly and indirectly involved with the project together with others such as adjacent contractors, user personnel, visitors and members of the general public.
- Completion of project without a reportable accident, incident occurring.

LIAISON BETWEEN PARTIES

Regular on-site meetings will be held between the Client, PSDP, and the Principal Contractor and consideration will be given to;

- Safety and Health implications of design elements
- Unforeseen eventualities during the project execution resulting in major design change and which affect particular risks, completion date, or other safety and health implication
- Ongoing health and safety issues during the construction phase.
- The provision of the safety file.

CONSULTATION WITH WORKFORCE

The Principal Contractor will arrange a regular briefing with the site operatives before work starts to allow them to raise any concerns they may have. This will be an opportunity to discuss the proposed work set out for the day and discuss any issues that may arise. At induction stage the operatives will be allowed to offer feedback to the site manager and similar setup during regular project meetings. All method statements and risk assessments provided for the project will be discussed with the operatives involved and a signature obtained to state they agree with the method of work and the risks that were identified.

EXCHANGE OF DESIGN INFORMATION

All contractors will liaise with the Project Team, Client and PSDP in relation to design elements carried out during the construction phase and inform them of any changes that may affect the information in this plan.

DESIGN CHANGES DURING PROJECT

All design work carried out after commencement of the works i.e. resulting in changes to drawings and/or specification - all documentation to be checked, copied and distributed. Distribution list will include Site Management, PSDP, the Project Team, Principal Contractor and suppliers. Any changes in design during the project will be communicated to all relevant parties and if required a member of the project team will arrange a meeting on site to discuss the matter and address the issues followed by the implementation of an action plan to resolve the matter.

SELECTION & CONTROL OF CONTRACTORS

All new contractors working on the project will be required to complete a pre-qualification questionnaire that will request a copy of their insurance and Health and Safety Policy along with method statements and risk assessments for the project. The Client H&S will review all PQQ's returned and report to the project team approval of contractor to commence works.

The day to day control and monitoring of the contractors on this project will be carried out by the site manager on site. The site manager along with input from Safety Manager will review and monitor the working of contractors on a regular basis through site visits and the completion of Health & Safety Audits.

EXCHANGE OF HEALTH & SAFETY INFORMATION

All information will be made available to contractors on site. The Construction phase plan will be displayed in the site works area along with all relevant information. Daily briefings each morning will allow contractors to raise and share information.

SITE SECURITY

All security for the project will be controlled by the Principal Contractor. Suitable barriers and signage will be displayed, and access will be restricted to construction staff only. The Principal Contractor to review this on a regular basis.

SITE INDUCTION

A Health & Safety induction will be given to all new personnel commencing on site in conjunction with an initial safety talk provide by each contractor and enforced by the Client highlighting the particular safety hazards involved with this site works. Specific points in relation to project will be discussed during this stage. All visitors to site must undergo a visitor induction and be escorted around site.

ON SITE TRAINING

Regular toolbox talks will be carried out with all operatives by each contractor with topics specific to the project. The site manager can offer advice to all operatives on a regular basis that will form part of the toolbox talk. As a minimum on this project all operatives working on site must hold a valid Safe Pass card or CSR/CSCS and Manual Handling training.

WELFARE FACILITIES AND FIRST AID

The Principal Contractor will provide welfare set up for the project. A toilet block and canteen area will be provided. The toilet block and canteen will be suitable for the numbers on site and this will be reviewed as the project moves forward. Welfare facilities may be moved throughout the course of the works. The Principal Contractor will appoint a first aider his name will be displayed along with a fully stocked first aid kit in the site office.

ACCIDENT/INCIDENT REPORTING & INVESTIGATION

All accidents, incidents, etc. shall be reported in the first instance to the Site Manager/Foreman who shall ensure that the Principal Contractor records all known details in the Accident Book then notify the relevant parties of the Client, PSDP and Client H&S. The contractor in connection with the Client H&S will ensure all necessary investigation, reporting, etc. is carried out. Necessary statutory bodies will also being notified (e.g. HSA etc.).

RA/MS REVIEW AND APPROVAL

Each subcontractor will prepare and issue a method statement and risk assessment for their element of work addressing all items which will be retained on site for information within the safety filing system and also on a drop box folder to allow access for all of the project team. Method statements and risk assessments for all work will be reviewed by the site manager, Client H&S and PSDP if required. Subcontractors will provide risk assessments and method statements that detail how they propose to carry out their works. Only when a RA/MS has been agreed will the contractor be permitted to start work. Subcontractors are responsible for their own safe system of work.

SITE RULES

The Site Rules will be distributed to all personnel commencing on site as part of the formal contract package issued prior to commencement on site. The Rules will be reviewed on a regular basis and amended as necessary in conjunction with Site Management following discussion at the co-ordination meeting. Copies of the current Site Rules will be displayed at strategic positions on site and all operatives at induction stage will also be given a copy of the site rules.

FIRE AND EMERGENCY PROCEDURES

All personnel on site shall be informed of the action to be taken in the event of an emergency at induction stage and will be co-ordinated throughout the project. A fire plan drawing and procedure will be displayed within the work area and this will show any changes to the fire escape route caused by the works being carried out as the building is constructed.

All hot works will require a hot work permit, this permit will detail the safe procedures to be followed to ensure the work is carried out safely and the necessary fire precautions are taken. A permit will be required to be completed by the Principal Contractor and operated in a suitable manner. Hot work permits will contain details in relation to the following: -

- Clearance or covering of combustible materials adjacent and opposite (through walls, ceilings etc) of the hot work location.
- Provision of fire extinguisher.
- All work equipment such as gas cylinders secured and located a safe distance from work area.
- Timescales for the examination of the work area during cool down.

Within the project area on display will be emergency detail numbers, nearest hospital and route planner for shortest journey time and also details on the first aider for the site.

ARRANGEMENT FOR CONTROLLING RISKS

SITE ACCESS AND PARKING

Vehicular access to the site will be off the existing entrance from the adjacent Road.

Pedestrian access to the site is via the proposed entrance to the site, segregated from the works.

Where there may be contact between the public and the construction work (i.e. at the site accesses, etc.), protection is to be provided using partitions/ barriers where there is a high risk of injury or flicker tape or similar where the risk of injury/ interference with the work is low. Clear temporary signage must be displayed.

SERVICES

Where possible the locations, if any should be recorded on the as constructed drawings. The Principal Contractor will survey the area using a cable allocating tool.

Utility companies such as ESB and Eircom may have their own plant in the vicinity of the site and therefore may be carrying out relocation of service lines in the area. Therefore, operatives of these companies and any associated plant

must be given unrestricted access to the site if necessary. The Principal Contractor will liaise with these utility providers in order to become aware of any proposed or ongoing works in the area.

ADJACENT LAND / BUILDINGS.

Agricultural / Residential is the primary land uses adjacent to the site.

STABILITY OF STRUCTURES

The existing footpath, roadway, underground services will be accessed and monitored throughout the works to ensure they are not adversely effected by the works.

PREVENTING FALLS

All works shall be planned sufficiently by each contractor so that safe access / egress shall be provided to operatives that are working at height. Materials shall not be thrown / tipped from heights. All materials shall be transported via access equipment and this will be provided to all working areas and will be inspected in line with current legalisation.

All edges / openings from which it is possible to fall shall be adequately protected by the contractor with guard rails, mid-rails and toe boards.

WORKING NEAR FRAGILE MATERIALS

N/A All Finished products will be protected by contractor who is responsible for the installation e.g. glass panels, glass cabinets etc.

LIFTING OPERATIONS

All lifting operations will be controlled by the contractor on site. Test certificates for all lifting equipment will be in place along with records of training for all operatives involved. These records will be retained on site and checked during regular inspections carried out by the Principal Contractor.

EXCAVATIONS

The Principal Contractor will ensure that prior to any excavation taking place a full scan of the area using CAT tool is carried out and services identified marked up on site using coloured pegs. All excavations will require suitable edge protection and barriers along with a trench box/supports if operatives are required to enter the excavation.

WORK NEAR OR ON WATER

The Principal Contractor will provide safety barriers and warning signage along the three drains to prevent construction workers and vehicles from falling in to the open drains.

CONFINED SPACE

A permit to work will be issued and controlled by the main contractor prior to the commencement of any confined space works. In connection with the permit a full method statement and risk assessment will need to be submitted. None envisioned at this time.

MAINTENANCE OF PLANT & EQUIPMENT

The Principal Contractor will be responsible for ensuring that machinery/plant supplied or hired, will be fit for its purpose and that operatives have adequate training in its use (including user certificates). Also appropriate inspections are carried out prior to operation and that test certificates for the plant / machinery are up to date. Service / Maintenance Sheets must also be completed at appropriate intervals and if in the event of any issues the operator is aware of the procedure to report any faults.

TRAFFIC MANAGEMENT AND ACCESS RESTRICTIONS

All existing and proposed escape and emergency access routes must be kept clear and available for their intended use at all times.

The Principal Contractor will ensure that access to and from all properties adjoining the site shall not be unreasonably restricted during the construction works. The maintenance of access will be the responsibility of the Principal Contractor. Reference to the accommodation works drawings and specifications may indicate further restrictions on certain properties.

A Traffic Management Plan will be carried out by the Principal Contractor and issued to Sligo County Council at Planning Compliance stage for allow and arrangements will be put in place prior to the commencement of works.

Safety is a key issue on this project and control measures will be taken to ensure this by each contractor.

During the loading and unloading of materials the main access road must not be blocked in a manner that will pose a risk to the public or visitors entering the site. Each contractor will be required to submit a traffic management plan for their element of the works.

STORAGE

The Principal Contractor will ensure all deliveries to site are controlled and arranged in a manner as to not flood this site with materials. This will be arranged using a detailed programme controlled by the site team. Each contractor will be required to set up a storage area in connection with the site management team who will control this.

ASBESTOS

An asbestos survey will be carried out on the existing building by an approved specialist subject to the grant of planning permission of the development by Sligo County Council.

MANUAL HANDLING

All manual handling operations shall only ever take place when it is not possible to use mechanical aids on site. Manual Handling will be minimized as much as reasonably foreseeable to avoid any injuries from this hazard

Team lifting shall be the used method for manual handling of loads.

HAZARDOUS SUBSTANCES

The materials proposed to be used during this project are well known within the construction industry and should not pose any real risks if controlled in the correct manner. All materials being brought to site by contractors must have a

safety data sheet accompanied along with it. Once on site an assessment will need to be completed for the item by the contractor.

Records of any hazardous materials used or incorporated in the works must be maintained on site and provided for inclusion within the Health and Safety File.

REDUCING NOISE AND VIBRATION

Any noisy works will be controlled and reviewed by each contractor. The method statements and risk assessments will support this and will be used to assist in further reducing noise and vibration.

EXPOSURE TO UV RADIATION (FROM THE SUN)

All personnel will be made aware of the risks posed of exposure to UV Radiation (from the Sun). All personnel whilst working outside during sunny weather will be required to keep skin covered as far as is practicable. Where skin maybe exposed suitable SPF Factor must be applied to the exposed area. Toolbox Talks will be carried out on site to make all Site Personnel aware of the risks.

HEALTH AND SAFETY FILE

- A template for the Health and Safety File will be issued by the PSDP and this will be issued to all subcontractors and controlled by the Client H&S for the duration of the project. A drop box account will be set up to allow all contractors to upload the information direct. This will allow the project team to review on a regular basis.
- Details of the required information have been issued by the PSDP as part of the Pre-Construction Information.

DEMOLITION

The use of rock breakers, or rock hammers mounted on excavators needs to be specifically agreed with the engineer.

The demolition works shall comply with British 5228 - Standard Noise Control on construction and open sites. Part 1. Code of Practice for basic information and procedures for noise control.

During demolition works on the site all necessary steps to contain dust arising from the demolition shall be taken so as to prevent a nuisance being carried to occupiers of other buildings in the locality. This shall include covering skips and slack-heaps, daily washing down of pavements or other public areas, use of water spray at demolition site to suppress dust and any other precautions necessary to prevent dust nuisances. During the demolition phase the proposed development shall comply with B.S. 6187 Code of Practice for demolition.

WASTE DISPOSAL

All waste generated on-site will be disposed off using a local registered contractor. The location of the waste disposal site will be agreed at pre-construction stage

SEGREGATION OF MATERIALS ON SITE.

The works shall be carried out in phased nature to aid in the segregation of the materials expected to be encountered onsite. As materials are taken from the ground they will first be accessed for reuse (e.g. soil, rock etc.). Any reusable materials will be set aside in a designated area of the site for transport to licensed recycling facilities. All non-

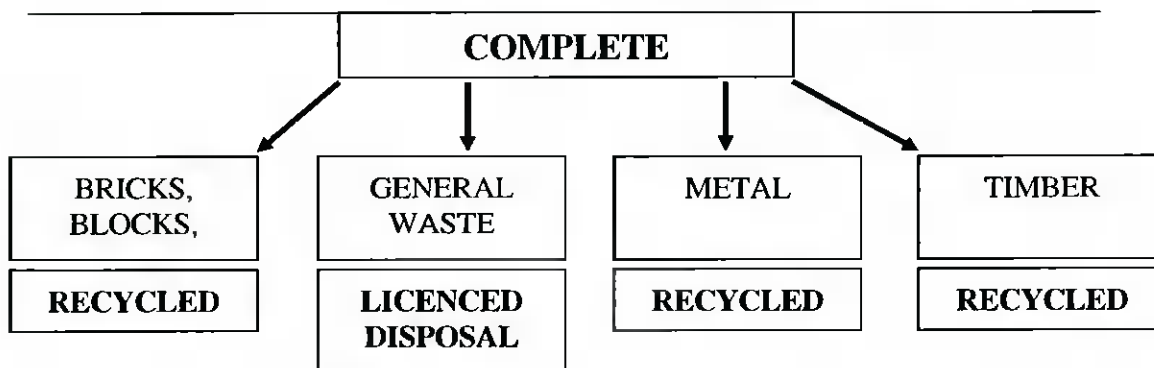
--reusable material will be segregated and disposed of into specific, labelled skips located on a designated area of the site. All skips will be collected on a regular basis by licensed carriers with current waste collection permits and delivered to facilities operating under current waste licences or permits. All Waste Licences / Permits and Waste Collection Permits are included in the Construction Phase Health & Safety Plan for the works.

The waste management policy is to maximise the reduction of waste by recycling and reuse, and minimise the landfilling of waste. Despite best efforts to maximise the reuse and recycling of materials there is still some of the waste materials arising from site clearance & construction works that are required to be disposed of in a licensed Landfill facility.

Waste collection is carried out by a number of permitted private firms. The firms that provide a commercial waste collection service and that are proposed to be utilised on this contract are as follows: TBC

Waste Streams

The following illustrates the identified waste streams that materials will be segregated into.



CONSTRUCTION METHODS

- The new building foundations will be designed by the structural engineer in conjunction with a site investigation report that will be carried out by a nominated contractor at tender stage. Details of Foundation design will be issued to the planning authoring at planning compliance stage for approval and in the event that piling is required details of hours of work and noise monitoring will be provided.

TIMESCALE

WORKS DURATION

Works duration at maximum: To be confirmed at pre-construction stage

WORKING HOURS

Working hours are confined to the following:

Monday to Friday 7.00am to 7.00pm.

Saturday 8.00am to 2pm.

No works are allowed to take place on Sundays or Bank Holidays.

Deliveries or movement of vehicles to or from site is not permitted outside of working hours and may be subject to restriction by the Client.