

**Bright Sparks Community Childcare Centre Extension**  
Preliminary Safety and Health Plan

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**Preliminary Safety and Health Plan**

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**Version 1.00**  
**Issue for Design Review**

O'Loughlin Architects Ltd

# **Bright Sparks Community Childcare Centre Extension**

## **Preliminary Safety and Health Plan**

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This Draft Preliminary Safety & Health Plan has been developed in accordance with Appendix 3 of the HSA publication 'Summary of Key Duties under the Procurement Design and Site Management Requirements of the Safety Health and Welfare at Work (Construction) Regulations 2006'.

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### 1.0 INTRODUCTION

- 1.1 This Pre construction document constitutes the Preliminary Safety and Health Plan which has been prepared by the Project Supervisor Design Process, in consultation with the Project Team, and has been produced in accordance with S.I. No. 291 of 2013 Safety, Health and Welfare at Work (Construction) Regulations 2013 and in accordance with our obligations and from information provided by the Designers, Client and by reference to the contract documentation etc. The format of the document follows the guidelines laid down in Regulations 11 to 14 inclusive of the above under the duties of the Project Supervisor (Design Process).
- 1.2 An inspection has been undertaken of the site, prior to the preparation of this plan by the Project Supervisor for the Design Process. At the time of the preparation of this Preliminary Safety & Health Plan, O'Loughlin Architects Ltd were appointed the Project Supervisor for the Design Process by the Client in accordance with Regulation 6 of the Safety, Health & Welfare at Work (Construction) Regulations S.I. No. 291 of 2013. The Appointed Contractor will be appointed the Project Supervisor for the Construction Stage (PSCS) and they hereby duly advise the contractor that the commencement of works may reveal changes requiring ongoing and continual re-assessment of the construction/design risks as it pertains to the requirements of the overall purpose of this project.
- 1.3 This Preliminary Safety and Health Plan shall be read in conjunction with the associated tender documents and drawings issued and all contract documents issued to the Contractor.
- 1.4 The purpose of the Preliminary Safety and Health Plan is to clearly identify all key conditions, arrangements and constraints associated with the existing site environment and design proposals that may significantly influence health and safety during the construction period.
- 1.5 Every effort has been made to produce a document which is as comprehensive as possible, but it should be noted that the Plan must not be considered to be exhaustive and there is a distinct possibility, because of the nature of the project works, that as the project evolves, it is reasonably foreseeable that unidentified hazards are likely to be present on the site, and or which may arise during the planned works.
- 1.6 The PSCS shall consider all the health and safety implications highlighted in the Preliminary Safety and Health Plan and account for these in the works programme.
- 1.7 The Appointed Contractor shall consider all the health and safety implications highlighted in the Preliminary Safety and Health Plan and account for these in the planning and operation of the construction works and preparation and or revision of

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all Safety & Health documentation for the Construction Stage as legally required by Irish Statutes.

- 1.8 The PSCS shall forward a copy of the Construction Safety & Health Plan to the Employers Representative/Project Manager for review and acceptance, prior to commencing any works on site.

## 2.0 GENERAL DESCRIPTION OF THE PROJECT

### 2.1 Title: Bright Sparks Community Childcare Centre Rear Extension

- 2.2 **Description of Works** : a single storey rear extension to existing Childcare Centre comprising of 2 no. classrooms, staff room, plant room & ancillary accommodation, associated alterations to all elevations, foul water to existing treatment system, surface water to soakaways and all associated site works.

For the detailed elements of all the works refer to the Tender Documents and drawing nos. PL 2783 01, 02, 03, 04 & 05

The total construction period will be approximately 6 months from commencement on site.

## 2.3 PROJECT PARTICULARS

### 2.3.1 Client: Allenwood Community Development Association CLG (ACDAL)

- 2.3.2 Project Supervisor Design Stage  
Tom O'Loughlin O'Loughlin Architects Ltd  
Tel: +353 087 9858836  
Email: oloughlinarchitects@gmail.com

### 2.3.5 Project Supervisor Construction Stage

To be confirmed by the Contractor.

### 2.3.6 Designers:

#### 2.3.6.1 Structural & Civil

Gerry Gallagher 087 2345669 ggstructuraldesign@gmail.com

#### 2.3.6.2 Architectural

Tom O'Loughlin O'Loughlin Architects Ltd 087 9858836  
oloughlinarchitects@gmail.com

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### 2.3.6.3 Mechanical & Electrical

Ronan Meally Consulting Engineer. [alan@rmce.ie](mailto:alan@rmce.ie), 086 816 6411

### 2.3.6.4 2.3.6.6 Quantity Surveyor

Martin O'Neill [moneillqs@yahoo.com](mailto:moneillqs@yahoo.com) 086 812 4982

### 2.3.6.9 Temporary Works Designers

## 2.4 Communication Arrangements between Project Parties

For day to day communications between client and the Contractor, notwithstanding any requirements of the Contract, Cara Clancy General Manager 089 464 3343

In matters requiring compliance with SHWW (Construction) Regulations 2013, the PSDP and PSCS shall communicate directly with each other

It is the responsibility of all designers and contractors to notify in writing the PSDP and the PSCS of any design changes including any temporary works design changes. The PSDP shall then update the preliminary safety & health plan to reflect appropriately such design changes.

## 2.5 Site Specific Information

The design and construction shall take into account all the relevant information at the specific site location and environs.

The extension to the rear of an operating childcare facility which will run as normal from 8 am to 6 pm 5 days a week

## 2.6 Project Programme

The proposed programme for the works must be prepared and detailed so that all aspects of delivery have adequate time to be completed and all works are covered by appropriate design, risk assessments and site activity method statements including gaining acceptance and set up of required protection arrangements.

**Milestone Dates:** The milestone dates for the contract are:

- Tender returns –29<sup>st</sup> of July 2026
- Anticipated Contract Date Tender Award –2/9/2026
- Site Start, Mobilisation & temporary works design – 07/10/2026
- Completion of contract – 25/5/2027

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**Pre-Construction Period:** A reasonable mobilisation period is to be determined after appointment of the Contractor to allow for contractual matters to be resolved, design determination; discussions/meetings arranged relating to the design, acceptance of scaffolding temporary works designs, site or contract to facilitate commencement on site and preparation of the Safety & Health Plan (Construction Stage) and HSA notification (AF2).

**Date of Completion:** PSCS, and PSDP to confirm the programme of the Design Works shall be developed with the PSCS where applicable.  
The programme of the Construction Works shall be developed with the PSCS in advance of the Works commencing on site.

### 2.6.1 Phasing of Works

Contractors (PSCS's) Programme must clearly show the detailed phasing of the works **based on the programme dates** as set out in the tender documents and this phasing must be agreed with the CLIENT prior to work commencing.

### 2.6.2 Existing Records, Plans & Safety Files

The Contractor and PSCS shall take into account in the works the existing drawings and the required surveys and inspections to be carried out by the Contractor to verify any assumptions made to execute the works.

## 3.0 CLIENT'S CONSIDERATIONS AND MANAGEMENT REQUIREMENTS

### 3.1 Structure and Organisation

The Client is:

**Allenwood Community Development Association CLG (ACDAL)**

The PSDP and Designers are as set out in Section 2.3.

The PSCS will be appointed as a part of the Contract.

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### 3.2 Safety Objectives for the Project

Contractors obligations under the Contract, and Guidance and Safety Health & Welfare legislation, employees and Contractors shall comply with the following duties under the Safety, Health & Welfare at Work Act 2005:

- **Take Care:** Always take reasonable care of your own safety, health and welfare and that of others who may be affected by your acts or omissions at work.
- **Co-operate:** Always co-operate with management and others to enable them to comply with the law.
- **Use Personal Protection:** Always use protective clothing, appliances and equipment provided for securing your health, safety and welfare in such a manner as to provide the protection intended.
- **Attend Training:** Always attend appropriate training and undergo assessment when directed by your supervisors.
- **Report Defects and Accidents:** Always report to your supervisors, without delay, any defect you may become aware of in plant, equipment, place or work or system of work, which might endanger safety, health or welfare of persons. Always report accidents and “near misses” incidents.
- **Never Interfere with Safety Measures:** Never intentionally or recklessly interfere with or misuse anything provided for securing the safety, health or welfare of persons arising out of work activities.
- **Never be under the Influence of Drink or Drugs at Work.**
- **Report all Injuries and Illnesses:** Always report injuries and illnesses to your supervisor and first-aider.

### 3.3 Site Progress Meetings

Each progress meeting should have a set agenda including a Safety and Health section which should address the following items:

- Brief details of any site accidents / incidents
- Details of any H.S.A visits to the site
- Schedule of Method Statements prepared and received
- Review of both Temporary and Permanent Works Designs Certificates for the project.
- Details of Safety File progress / information received
- Details of problems or unforeseen circumstances affecting H&S on site
- Details of significant design changes that may affect H&S arrangements
- Hours worked

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### 3.5 Permits & Authorisation Requirements

N/A

#### 3.5.1

### 3.6 Accidents, Incidents and Emergency Preparedness

The Project Supervisor Construction Stage (PSCS) and Contractor shall identify and prepare for potential emergency situations at the outset of the Contract and in advance of the Works commencing where the potential and likelihood of the risk of an incident, accident or dangerous occurrence could arise from the Contractors method of working and activities by use of plant, equipment, materials and machinery as follows:

- Fire
- Explosion
- Chemical spillage
- Gas or vapour release
- electrocution from overhead electrification
- Collapse of the temporary structure
- Falling from height
- Any other unusual potential occurrence.

In the PSCS and Contractor's safety documentation and construction methodology the PSCS/Contractor shall plan appropriate responses to foreseeable emergencies arising from the planned works and assign competent staff to deal with the emergencies. The PSCS and Contractor shall carry out risk assessments with appropriate mitigation measures for all works activities which have the potential to cause an incident and/or emergency situation.

The Contractor is obliged to comply with current EU and Irish legislation when an accident or dangerous occurrence occurs including, but not limited to, reporting directly to the Health & Safety Authority. A copy of the statutory IR1 or IR3 form (as appropriate) shall be forwarded to the Project Manager and copied to the New Works Safety Executive.

#### 3.6.1 Emergency Procedures and Evacuation Plan

##### 3.6.2.1 Existing Emergency Procedures and Evacuation Plan

##### 3.6.2.2 Construction Stage Emergency Procedures and Evacuation Plan

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**3.7 Site Rules and other Restrictions on Contractors, Suppliers & Others**

Each phase of the works has defined boundaries for the works area as indicated on drawings nos. TN 2783 02 Site Layout Plan . The access and egress arrangements and the area for site compound and storage are described in the Works Requirements of the Tender Documents. The Contractor is not permitted to enter into areas outside the designated area for the phase of the works.

**3.7.1 Site Accommodation**

To be provided by the contractor & located in agreement with client

**3.7.2 Restrictions on Work Sequences & Activities**

The Contractors attention is drawn to the following:

- Site limits, compound site and access/egress to the site will be as per tender documents.
- The contract period for the completion of the works is detailed in the tender documents.
- On reviewing tender documents and the above timescale for the completion of the construction works the Contractor must satisfy themselves that this period is appropriate for the safe completion of the works.
- The programme for the works shall be detailed so that all aspects have adequate time for the preparation and submissions of the construction methodology and temporary works to be completed. Construction methodology and designs shall be prepared, submitted and re-submitted well in advance of the particular works so as to allow acceptance
- In addition to the above, the PSCS has to be satisfied that the time allocated to the start up and completion of the project is reasonable in so far as it does not compromise the safety, health and welfare of personnel working on the project.

**3.7.4 Restrictions to Access**

Deliveries times to be agreed with client to avoid busy drop off or pick times at the existing childcare facility

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3.7.5 Restrictions on working hours

As per planning permission, 8am to 6pm Monday to Friday & 8am to 1pm on a Saturday

3.7.6 Adjacent Work Activities

N/A

3.7.7 Other Restrictions

N/A

**3.8 3.9 Arrangements for Liaison with Third Parties**

N/A

**3.10 3.11 Notification Requirements**

The Contractor shall at the commencement of the works notify the Health & Safety Authority by submitting form AF2.

**4.0 ENVIRONMENTAL RESTRICTIONS AND EXISTING ON SITE RISKS**

**4.1 Safety Hazards**

4.1.1 Boundaries & Access including Temporary Access

4.1.2 Interface with the Existing Lands and Operations

4.1.3 Adjacent Land Uses & Activities and Interface Considerations

Consideration shall be given to all the adjacent land uses and activities on the Project boundaries and within the vicinity of the Project works areas and each area of interface to be highlighted.

4.1.3.1 Local Traffic

Deliveries times to be agreed with client to avoid busy drop off or pick times at the existing childcare facility

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Construction vehicles and site personnel vehicles will have to observe local and site speed limits and obey all pictorial signs and directions that are currently in place and or signs that will be put in place by the Client, PSCS, Regulatory Authority.

On approach to the project site and or works areas, all drivers of vehicles must comply with the relevant speed limit in place and reduce their speed accordingly for access and egress.

Drivers of vehicles who enter and egress work site locations must also be courteous to other road users/pedestrian and in particular to members of the public and local community who use these routes.

The PSCS will ensure that this requirement is covered in the Contractor Induction programme for employees commencing work at this site for the first time and subsequently this matter must be included in the agenda for toolbox talks on an ongoing basis to promote safe driving at all times to and from the project works and the surrounding areas.

#### 4.1.3.2 Adjacent lands – specific safety considerations

Adjacent childcare facility & adjacent public playground which shares the access road to the subject site

#### 4.1.4 Existing Storage of Hazardous Materials

N/A

#### 4.1.5 Existing Utility & Lineside Services

Reference site layout plan TN 2783 10 (drawing still in progress) which shows all **known** existing services

Ref:	Type of Utility/Service	Existing Record identifying service
f	Third Party Telecoms cables	
g	Underground electricity cables	
h	Overhead electricity lines	
i	Gas Mains	
j	Watermains	
k	Sewerage & Surface Water Drainage	
l		
m	Others	

It is the responsibility of the successful tender to obtain up to-date records of all other utilities and services in the ground level areas from the relevant utility companies and ensure they are not damaged / broken as a result of these works before excavating commences and or before placing loads onto the ground surfaces.

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The Contractor is required to carry out his own checks on the information and satisfy himself about the nature and location of services.

It should be noted that other non-chartered services may be present within the site and caution should be exercised when excavations or other significant works are being proposed/considered.

It is the responsibility of the contractor to ensure that they have the appropriate and most recent issue/issues of any drawings that will be required to assist them in ensuring any proposed construction work is being done in the safest possible manner to ensure the safety of all personnel involved in same.

#### 4.1.6 Ground Conditions

Reference Soil test from Site Investigations Ltd

#### 4.1.7 Health Hazards

##### 4.2.1 Existing Storage of Hazardous Material

N/A

##### 4.2.2 Existing Structures Hazardous Materials

Reference Site Layout TN 2783 10 (Work in progress) Showing the approximate location of an unused Geothermal ground loop which may or may not have glycol coolant or similar within.

##### 4.2.3 Asbestos, including Investigation Results

N/A

##### 4.2.4 Contaminated land and materials & removal from site

Site testing re ground contamination to be carried out in the coming weeks, the site was previously an agricultural field, so in my opinion, it is not expected there is a likelihood of the presence of ground contamination.

The Contractor will ensure that no detrimental waste products, oils or chemicals etc. pollute the existing watercourses in the vicinity of the site works.

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### 4.2.5 DESIGN & CONSTRUCTION HAZARDS

#### 5.1 Design Assumptions & Risk Management

The Project Supervisor (Design Process) has considered health and safety on all significant project issues in accordance with the general principles of prevention as specified in the second Schedule of the Principal Regulations of the Safety Health & Welfare at Works Act (Construction ) Regulations 2013. Regular design review meetings are held to mitigate against the risks of conflicts in design in proposed construction works.

Project Designers have provided information on the presence of any identified Particular Risks and any significant safety & health risks identified during the design including the criteria detailed in **Section 5.0**.

Common-place hazards normally associated with a construction site have **NOT** been highlighted, as a **COMPETENT** Contractor should be aware of these hazards and have a recognised safe system of work in operation to control the risk posed on a daily basis, for a project of this nature and scale.

This is not an exhaustive list of activities/elements and should the PSDP or design team highlight additional risks then the same procedure of assessment should occur. The Client has a legal obligation to assist both the PSDP and PSCS in active risk reduction techniques as they pertain to this project.

The Contractor, PSCS, sub-contractors and associated consultants shall prepare, update and maintain the health & safety documentation. Subject to the new and revised design within the construction programme, the Preliminary Safety & Health Plan shall be updated / amended to accommodate additional hazards identified in the design.

#### 5.2 Co-ordination of ongoing design work & design changes

##### 5.2.1 Permanent works designs within the contract

N/A

##### 5.2.2 Temporary Works Designs

May include (but not limited to) Hoarding, Scaffolding, Propping, Shoring and excavation support, Falsework and formwork, Cranes bases, Signs and Anchors, reference Appendix 6.

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5.2.3 Interface between Clients designs and Contractors designs

5.2.4 Management of design changes

**5.3 Works Involving Particular Risks & Significant Hazards**

In accordance with Regulation 15(1) of the S.I. No. 291 of 2013 SHWW (Construction) Regulations 2013 all designers must take account of the General Principles of Prevention contained in Schedule 3 of the Safety, Health & Welfare at Works Act Revised and Updated to 22 February 2013 and any relevant Safety & Health Plan or Safety File.

Eliminating hazards and reducing risk, if feasible, at design stage is the first step in managing safety and health on construction projects. All designers must take into account the existing hazards on the project relevant to areas of concern and consider these with respect to the potential new hazards generated by the design process for construction workers, end users, and member of the public.

**5.3.1 Scheduled Particular Risks**

The following is the non exhaustive list of particular risks to the safety and health of persons as set out in Schedule 1 of S.I. No. 291 of 2013 together with the opinion of the Project Supervisor for Design Stage on what elements of the works may fall within each particular risk category. It should be noted that many of the risks on the project during the construction stage may arise out of working methods which are at the discretion of the Contractor and/or sub-contractors and as such cannot be determined by The Project Supervisor for Design Stage but must be included in the Construction Stage Safety & Health Plan and relevant safety documentation.

<b>PARTICULAR RISKS</b>
<b>“Works which put persons at work at risk of burial under earth falls, engulfment in swampland or falling from a height, where the risk is particularly aggravated by the nature of the work or processes used or by the environment at the place of work or site.”</b>
<b>Burial under earth falls</b> , for example: Deep foundations, deep cuttings, work in excavation which are in or adjacent to unstable ground, hazardous underground services or where there is a risk of undermining existing foundations.

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**Engulfment in Swampland**, for example: Where the risk associated with working at a height is likely to be aggravated by the presence of another significant hazard then a particular risk may be present:

**Falling from a height**, for example: Where the risk associated with working at a height is likely to be aggravated by the presence of another significant hazard then a particular risk may be present, for example

- a) Work platforms
- b) Off roof edge.

Working at height is envisaged for:

- Erection of scaffolding; and, Specify the activities for which working at heights is required.
- Fitting of roof cladding
- Plaster to walls
- Fitting of fascia & soffit , gutters & downpipes

The contractor is obliged to comply with all relevant legislation in relation to working at height in particular the Safety, Health & Welfare at Work (Work at Height Regulations) 2006 and applying all relevant guidance given in the relevant Guidance documents by the Health & Safety Authority. The Contractor shall carry out risk assessments for each activity involving working at height and include in the method of working the appropriate mitigation measures.

**Work on adjacent to or on fragile roofing**

Not applicable.

**Operations where the nature of the work or other restrictions makes it impracticable to provide standard scaffolding or other suitable and sufficient means of support.**

Not applicable.

**Work which puts persons at risk from chemical or biological substances constituting a particular danger to the safety and health of such persons or involving a legal requirement for health monitoring.”**

Not applicable.

**The presence or potential presence of explosive atmosphere.**

Not applicable.

**The presence of materials containing Asbestos identified based on visual inspection.**

Not applicable.

**The specification or use of substances or preparations which must be labelled with the risk phrase R45 “May Cause Cancer”.** Substances classified as carcinogens include Asbestos, Zinc Chromate, Benzene and certain classes of Bituminous substances which are used in caulking or sealants.

Not applicable.

**The specification of use of substances or preparations which must be labelled with the risk R42 “May cause sensitisation by inhalation”.** Substances classified as respiratory sensitizers’ include Isocyanides. These are a component of many coatings, sealants and foams, particularly of “two pack” coatings or Urethane. A particular risk might not exist where only small

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quantities are used and ventilation is adequate or where a written risk assessment shows that the occupational exposure limit is unlikely to be exceeded.
Not applicable.
<b>“Work with ionising radiation</b> requiring the designation of controlled or supervised areas as defined in Article 20 of Directive 80/836/Euratom such as: radioactive lightning conductors, radioactive installations, and work near x/ray machines in hospital radiotherapy or nuclear medicine departments.”
Not applicable.
<b>“Work near high voltage power lines.”</b> “This category includes all high voltage power lines including overhead and buried lines. The Safety Health and Welfare at work (General Application) Regulations 2007 define higher voltage as exceeding 1000 volts alternating current or 1500 volts direct current.”
<b>Overhead electric wires.</b>
Not applicable.
<b>Underground electric wires.</b>
Not applicable.
<b>Working near high voltage power line.</b>
There are high voltage power lines adjacent to the subject site , reference Site Layout Plan TN 2783 10 showing same (Work in progress)
<b>Other Services.</b>
In addition to any service drawings provided, it is the responsibility of the contractor to liaise with relevant parties and or local authorities in connection with protection of and from relevant services.
<b>Water mains.</b>
In addition to any service drawings provided it is the responsibility of the contractor to liaise with relevant parties and or local authorities in connection with protection of and from relevant services.
There are high voltage power lines adjacent to the subject site , reference Site Layout Plan TN 2783 10 showing same (Work in progress)
<b>Other liquids/gases under pressure.</b>
Propane cylinder of gas serve existing childcare facility, reference Site Layout Plan TN 2783 10 showing same (Work in progress)
<b>“Work exposing persons at work to the risk of drowning</b>
Not applicable.
<b>“Work on wells, underground earthwork and tunnels, for example: Excavated wells, Underground earthworks, tunnels, underpinning.”</b>
Not applicable.
<b>“Work carried out by divers at work having a system of air supply.”</b>
Not applicable.
<b>“Work carried out in a caisson with a compressed air atmosphere.”</b>

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Not applicable.
<b>“Work involving the use of explosives, for example: rock blasting or demolition.”</b>
Not applicable.
<b>“Work involving the assembly or dismantling of heavy prefabricated components, for example: heavy Steel structural frame elements, heavy precast concrete frame elements or heavy prefabricated plant items.</b>
All heavy lifting carried out by the contractor must be in compliance with relevant Codes of Practice and ensure all relevant certification in place for any lifting operations taking place.
Not applicable.
<b>5.3.2 OTHER NON – SCHEDULED PARTICULAR RISKS.</b>
<b>Works with a public interface</b>
The movement of plant, equipment, machinery and materials in and out of the site access and compound from the public road shall be managed safely by the Contractor with appropriate risk assessment and mitigation measures.
When works have to be done at night time the Contractor shall assess the impact of noise arising from the night time works and shall take all means to reduce the noise. The Contractor shall have, in accordance with the requirements of the Contract, the responsibility of notifying the public in advance of any activities that will cause public nuisance and shall manage the public relations with the public.
<b>Manual Handling</b>
A considerable number of activities of the Works require handling of material and equipment. The contractor is advised of the manual handling risk and the PSCS and Contractor are required to carry out risk assessments with elimination of manual handling where possible and, where required, mitigation measures including ensuring that all staff are trained and that appropriate lifting equipment is available for the tasks.
<b>HEALTH HAZARDS</b>
A number of health hazards may arise from the existing environment and will arise from the working environment in carrying out the construction works including the use of hazardous substances as set out below which will require risk assessment.
<b>Chemical &amp; Biological Hazards</b>
Existing chemical & biological hazards are identified in the section on Particular Risks. The PSCS and Contractor shall take account of any chemical and biological hazards arising from the construction activities.
<b>AIDS (Acquired Immune Deficiency Syndrome)</b>

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The hazard of transmitted AIDS virus is of low risk but there is a potential for infected needles or razor blades to exist on the site/lands.

**Noise & Vibration**

A number of activities will require assessment for noise and vibration control and protection Contractor to Specify the works activities which are expected to generate significant noise levels and the required mitigation measures.

**Lighting**

A number of the construction activities will be carried out during night time possessions Provision of artificial lighting will be based on appropriate risk assessment.

**Exposure to Adverse Weather Conditions**

Contractor to Note any potential adverse weather conditions such as winter night time working

5.3.2.1 5.3.2.2 Risks arising from Design

The contact details of the designers associated with the Works are set out in Section 2.3. The designer risk assessments for each of the design disciplines are included in Appendix 1. The PSCS and the Contractor shall take into account all the design hazards/risks and their mitigation in the Safety Management System, the temporary works design (for the scaffolding) and associated safety documentation. Any changes to the designs during the course of the Works shall be advised by the PSCS to the PSDP who will require the designers to take into account in their risk assessment the agreed design changes.

The Contractor is required to carry out temporary works and the temporary works designs as a part of the Contract. A list of expected temporary works designs are identified in Appendix 2 6 : Contractor’s Temporary Works Designs.

It is the responsibility of all designers and contractors to notify in writing the Project Manager, PSDP and the PSCS of any design changes including any temporary works design changes. The PSDP shall then update the preliminary safety & health plan to reflect appropriately such design changes.

All exchanges of design information (including temporary works designers) between the Project Supervisor Construction Stage and Contractor shall be promptly forwarded to the Project Manager and the Project Supervisor Design Process.

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#### 5.3.2.3 Detection & Exposing of Services

Regardless of information obtained and contained within this Preliminary Safety & Health Plan, the Safety File and tender documents, the Contractor will undertake a survey of the entire site zone and any applicable areas adjacent to the site in advance of any proposed works. It is the responsibility of the contractor and or sub-contractor to contact the SERVICE OWNER & PSCS.

Suitable locating devices should be used repeatedly to locate cable and pipe positions such as hum detectors, radio frequency, transmitter-receiver, metal detectors or ground radar, the Contractor is to ensure that personnel who undertake this critical work are competent to do so i.e. experienced and formally trained to a recognised national standards (FAS, FETAC etc).

The contractor is to notify all relevant utility providers and others as appropriate in advance of the works and observe and comply with all utility recommendations and advice concerning work adjacent to or with existing services.

The PSCS shall obtain current Utility or Local Authority records of significant site services prior to any ground disturbance. It should always be noted that record drawings are for assistance and general guidance only. There is no guarantee of the accuracy of the positions of existing apparatus as well as the possibility of older services that may never have been recorded.

The contractor must make contact with all main utility providers on their appropriate contact numbers and arrange any meetings as appropriate on site to review and mark out accurately any underground services which have been detected and are not shown on record drawings.

The line of any identified services should be noted and physically marked out with chalk, paint, spray or pegs depending on the surface. Excavating to expose services should follow safe digging practices with trial holes using suitable hand tools and a senior engineer is to be present at all times on behalf of the Contractor whilst the exposing of services is taking place

Should the PSCS and/or contractor discover buried or hidden services that are not required for diversion or removal from the site, then they must take all necessary precautions on site and prepare a marked up layout of the route across the site and retain for inclusion in the Safety File.

Where unrecorded utilities are discovered the Client the PSDP and the PSCS must be notified immediately by the Contractor before the Contractor and or their agents continue on working in the immediate area (affected works area). The details of any unrecorded utilities shall be included in the Safety File.

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If any damage occurs to existing services as a result of the work operations, the contractor must notify the appropriate utility provider and the PSDP/PSCS without delay. Remedial works are to be conducted at the full consent advice and supervision of the appropriate authority.

#### 5.3.2.4 Risks arising from Environmental Restrictions applicable to the works

The Contractor shall take account of the proximity and elevation of the site to adjacent residential, commercial, educational and religious institution receptors.

The Contractor shall take into account the hazards arising from environmental restrictions based on the chosen methods of construction which give rise to risks impacting the environment. The Contractor shall also take into account the environmental restrictions based on existing on site risks as noted in section 4.

##### 5.3.2.4.1 Traffic Management

All movement of vehicles, machinery, plant and equipment required during the course of the works shall be risk assessed, designed, implemented and controlled to minimise the risks to pedestrians, cyclists and other road vehicles.

Safe and efficient traffic management is founded upon the following principles:

- Development of traffic management proposals in accordance with the principles of prevention and by following the hierarchy of risk prevention and protection;
- Provision of clear and early warning of obstructions in the roadway;
- Optimisation of road space and the provision of an adequate safety zone and work space at work locations;
- Provision of clear directions relating to decisions/actions required from road users;
- Consideration of the needs of vulnerable road users;
- Minimisation of potential conflict between road users;
- Provision of credible traffic signs and temporary requirements; and
- Provision of appropriate speed limits and restrictions.

In the event that roadworks are required as part of the project, the extent of the appointments, planning, risk management, temporary traffic design, traffic management plan, implementation and operations of the roadworks will depend on the nature and complexity of the roadworks.

The temporary roadworks are to be designed, implemented and operated in accordance with the following documents:

- Roads Acts, Roads Traffic Acts and any other relevant legislation,
- Safety Health & Welfare at Work (Construction) Regulations 2013,
- Guidance for the Control & Management of Traffic at Roads Works 2<sup>nd</sup> Edition 2010 by Department of Transport, HSA & NRA,

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- Requirements of relevant Local Authority and where required 'Directions for the Control & Management of Road Works in Dublin City by Dublin City Council,
- Chapter 8 of the Traffic Signs Manual' issued by Department of Transport (Ireland).

### Traffic Management Design Parameters

The Traffic Management Design and Traffic Management Plan shall be developed in detail by a competent experienced Temporary Roadworks Designer based on the detailed brief provided by the client and/or the Contractor and PSCS to the Temporary Roadworks Designer.

#### 5.3.2.4.4 Vegetation Clearance

The works in the cutting includes vegetation clearance consisting of cutting back and removal of existing vegetation. These work activities will give rise to specific risks to the contractor's operatives including but not exclusively as follows.

- 5.3.2.4.4.1 The vegetation is well established wild planting in an urban/rural setting but may include garden plants that have migrated from the adjacent residential properties. The planting may include some noxious and invasive plants.

Each type of vegetation, whether wild plants, garden plants, noxious or invasive plants have many of their plant species which are to some degree poisonous and toxic. The poisonous and toxic parts of most plants are a combination of one or all of their parts – leaves, seeds, flowers, berries, stems, bulbs, root system and sap.

When clearing the vegetation including uprooting, it should be assumed that any part of the various plants to be cut back and/or removed could to varying degrees be poisonous and toxic to people with variable degrees of adverse reactions to persons when exposed ranging from light skin irritation to death (in rare cases).

- 5.3.2.4.4.2 The pathway or route of plant poisons and toxins is through:
- Ingestion by poisonous plants being handled with hands not being washed adequately when eating. It is assumed that construction workers will not eat any part of the plants including berries but if it were to happen it very likely would have serious consequences in the form of varying degrees of poisoning.
  - Contact with any part of many plants on a person's skin may result in skin discomfort, skin rash, itching and burning sensation.
  - When cutting larger plants into small pieces may release into the atmosphere harmful particles which may when exposed to eyes result in inflammation, conjunctivitis, corneal erosion and inflammation of the cornea. A hand rubbing the eye when the hand has been in direct contact with parts of plants may result in similar symptoms.

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5.3.2.4.4.3 The range of symptoms arising from plant poisoning include (not a comprehensive list) nausea, vomiting, diarrhoea, respiratory and cardiac distress, dizziness, headache, convulsions, drowsiness, high temperature, rapid pulse, etc.

5.3.2.4.4.4 The Contactor shall carry out a risk assessment of the vegetation clearance activities to determine the appropriate personal protective equipment for the activities performed. This may include suitable PPE to be provided for some or all of the following:

- Skin protection;
- Eye protection;
- Respiratory protection;
- Foot protection;
- Hand protection; and,
- Any other protective equipment.

5.3.2.4.6 Steam and Water Pressure Jet Washing

Steam and water pressure jet washing is required for cleaning activities (specify locations).

5.3.2.4.6.1 It appears that there is very little guidance or standards in Ireland and the UK on the safe use of pressure water or steam jetting cleaning apart from any manufacturer's instructions.

5.3.2.4.6.2 The Health & Safety Executive in the UK (HSE) have guidance in relation to electrical risks detailed in the following HSE documents:

- Do you use a Steam/Water Pressure Cleaner? HSE INDG68
- Electrical Risks from Steam/Water Pressure Cleaners HSE Guidance Note PM29.

There is some international guidance on best practice for high pressure water jetting washing which gives good practice guidance that is relevant to steam or water low, medium or high pressure jet washing. The following documents are readily available online:

- High Pressure Washing Safe Working Practices by WorkSafeBC.
- Guide for Managing Risks from High Pressure Water Jetting by Safe Work Australia dated December 2013.

5.3.2.4.6.3 Risks arising from Pressure Water or Steam Jetting Cleaning

The use of equipment for pressure water or steam jetting cleaning by experience trained operative working on cleaning of brickwork give rise to a number of hazards (non-exhaustive):

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- Strong spray from pressure washing can cause serious wounds/injury to eyes and skin of persons. Loss of control of the jetting gun due to poor footing and positioning can expose others to risk of contact with water or steam jet.
- Poorly maintained equipment including hosing and nozzle causing component disconnecting under operating pressure and causing injury.
- Electric shock from incorrect use of pressure washer equipment.
- Musculoskeletal injury from continued use working in awkward positions in confined space.
- Dislodgement of mortar or brick debris causing injury to operatives.
- Dislodgement of mortar or brick debris falling from height causing injury to persons in range of falling debris.
- the potential to release silica dust including a residue silica dust mist from the brickwork during cleaning operations with the risk of contacting lung diseases.

#### 5.3.2.4.6.4 Risk Assessment of Pressure Water or Steam Jetting Cleaning

A risk assessment is an essential part of a safe system of work for pressure water or steam jetting operations. The mitigation measures and control measures for the identified hazards shall be incorporated into the method statement for these works. The sub-contractor carrying out the pressure water or steam jetting cleaning shall prepare a method statement for the works with the appropriate risk assessment. The main contractor is responsible for the method statement of the combined operations and activities occurring simultaneously and shall take account of the requirements of the pressure water or steam jetting cleaning method statement and risk assessment.

#### 5.4.2.4.7 Confined Space Working

The works to be carried out within the enclosed space or partially enclosed space (Attic space) is designated a potential Confined Space.

5.4.2.4.7.1 The key determinants as to whether an enclosed space or a partially enclosed space creates the conditions which give rise to a likelihood of accident, harm or injury of such a nature as to require emergency action (reference: HSA Code of Practice for Working in Confined Spaces) are:

- (a) The presence or reasonably foreseeable presence of:
  - Flammable or explosive atmospheres,
  - Harmful gas, fume or vapour,
  - Free flowing solid or an increasing level of liquid,
  - Excess of oxygen, and/or,
  - Excessively high temperature.
- (b) The lack or reasonably foreseeable lack of oxygen.

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A risk assessment is required to identify all the hazards of working in the partially enclosed space as a confined space, carry out a risk analysis and evaluation with means of eliminating or reducing the risks with mitigation measures and control measures.

#### 5.4.2.4.7.2 Assessment of Hazards arising from the Tunnel as Confined Space

The most likely hazards arising from a developed methodology may include at least the following (although all of the above hazards to be assessed shall be included):

(a) Flammable or explosive atmospheres

The likelihood that an explosive atmosphere will occur as a result of flammable substances released from a combination of plant and equipment within the enclosed space shall be assessed in accordance with the HSA Guide to the Safety Health and Welfare at Work (General Application) Regulations 2007 Part 8: Explosive Atmospheres at Place of Work.

To meet the requirements of Regulation 169 of the Regulations, an assessment of explosion risk may be required including the preparation of an Explosion Protection Document.

(b) Harmful gas fume or vapour

The potential use of diesel fuelled plant and equipment including generators within the enclosed space around the motor room shall be assessed. Diesel engine exhaust emissions consist of a variety of chemicals including carbon monoxide, carbon dioxide, nitrogen oxides, sulphur dioxide and hydrocarbons. Most likely the fumes will build up in the enclosed space when poor ventilation occurs creating a significant risk to operatives carrying out works in the enclosed space.

Also, the disturbance movement and any chemical cleaning of accumulated bird droppings within the enclosed space may create toxic spores fumes to become airborne within the enclosed space giving rise to potential health & safety hazards. A risk assessment shall be carried out in the context of Confined Space working.

#### 5.4.2.4.7.3 Confined Space Safe System of Work

Subsequent to carrying out a risk assessment for confined space working, the Contractor shall incorporate the specified risk mitigations into a confined space safe system of work which shall include (non-exhaustive list):

- Competence, training, supervision and suitability
- Permit to work procedure
- Gas purging and ventilation
- Dangerous residues
- Testing and monitoring of the atmosphere
- Mechanical, electrical and process isolation

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- Respiratory protective protection
- Other personal protective protection
- Safe use of work equipment
- Communications
- Access and egress
- Flammable or explosive atmospheres
- Combustible materials.

#### 5.3.2.5 General Construction Risks

##### 5.3.2.5.1 Site Electricity General

The following is a non-exhaustive list of potential risks associated with site electrical work. It will be expected that most if not all items will be covered in the Construction Stage Safety & Health Plan.

- 110 voltage shall only be used
- All supplies to be protected by RCCB or similar approved.
- Avoid long trailing leads; supply should be in close proximity.
- System for regular checks on tools and equipment for the job.
- Use correct tools and equipment for the job.
- The control of sub-contractors to include the assessment of Competency and monitoring of safety. The main contractor has responsibility of ensuring that all sub contractors are competent and that records of competence are kept in the site safety file.

##### 5.3.2.5.2 Security Arrangements

When the works site is handed over to the Contractor to carry out the works the Contractor is responsible for maintaining the boundary of the site and for the management of vehicles and personnel in and out of the site. The Contractor shall put in place a security management system to ensure that the general public do not have access on to the works site and that the public will not be able to access the the works site.

##### 5.3.2.5.5 Tools and equipment

All electrical tools shall be PAT tested, fit for use and purpose and calibrated as necessary to complete the relevant activities. All plant and equipment must be immobilised and secured against unauthorised usage.

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#### 5.3.2.5.6 Cranes & Lifting Devices

Measures will be required for the safe operation of any cranes and lifting devices. Contractors must comply with the requirements of the SWHH (General Application) Regulations S.I. No. 299 of 2007 and SHWW General Application) (Amendment) Regulations S.I. No. 732 of 2007. The use of transport vehicles and lifting equipment shall be planned to conform with the following conditions:

the stability of all temporary works shall be assured at all times and the monitoring of adverse weather conditions likely to undermine such works will be the responsibility of the person supervising these works on behalf of the Contractor who is contracted to complete these works.

#### 5.3.2.5.7 Labour Force

The contractor shall ensure that an adequate number of operatives are available to complete activities safely and that adequate training has been provided. The contractor must also ensure that the health of all operatives is such that they can carry out their duties without foreseeable risk.

All operatives must have the relevant CSCS cards and training for their tasks. All operatives must have SOLAS Safe Pass

#### 5.3.2.5.8 Reporting of Accidents

All incidents/accidents must be reported to CLIENT Site Representative immediately. All accidents must be recorded in the Site Accident book.

#### 5.3.2.5.9 Welfare Facilities & First Aid

Contractor to Note any requirements for welfare facilities

#### 5.3.2.5.10 Schedule 2 Principles of Prevention

The following is the non-exhaustive list of the General Principles of Prevention set out in Schedule 2 of the Safety Health & Welfare at Works (Construction) Regulations 2013 that the Construction team will be required to adhere to. Provision for the control measures will need to be made by the Contractor (not the Client) and shall be monitored by the PSCS.

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Non-exhaustive list of the General Principles of Prevention are:

Item	Required/To be considered?	
	Yes	No
1. Keeping the construction site in good order and in a satisfactory state of cleanliness		
2. Choosing the location of workstations bearing in mind how access to them is obtained, and determining routes or areas for the passage and movement of equipment.		
3. The conditions under which various materials are handled.		
4. Technical maintenance, pre-commissioning checks and regular checks on installations and equipment with a view to correcting any faults which might affect the safety, health and welfare of persons at work.		
5. The demarcation and laying-out of areas for the storage of various materials, in particular where dangerous materials or substances are concerned.		
6. The conditions under which the dangerous materials used are removed.		
7. The storage and disposal or removal of waste and debris.		
8. The adaptation, based on progress made on the construction site, of the actual time to be allocated for the various types of work or work stages.		
9. Co-operation between employers and self-employed persons.		
10. Interaction with industrial activities at the place within which or in the vicinity of which the construction site is located.		

#### 5.4 Materials requiring particular precautions

##### 5.4.1 Safety Data Sheets

The contractor shall maintain on site a Safety Data Sheet File for all materials being utilised during the execution of the project. All materials will be subject to an assessment and all relevant items of PPE shall be made available for use when working with the material. The file shall be updated as works proceed.

#### 6.0 Safety File

The PSCS is responsible for ensuring all relevant information relating to future construction works or future maintenance within the scope of this Project is included in the Safety File.

For this purpose, all sub-contractors/suppliers must make available Operational & Maintenance manuals/product information.

The PSCS shall ensure that the Safety Files has been completed and forwarded to the PSDP by the time of practical completion.

The Safety File content should follow the current legislative guidelines. In addition to the developed Construction Safety & Health Plan the PSCS shall include:

- Statutory, public body and semi-state body approvals during the construction phase;

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- Construction design records, site investigation information including interpretative reports and surveys;
- Design criteria/ concepts, drawings and design calculations for all temporary works designs;
- Design criteria/ concepts, drawings and design calculations for all Contractor designed permanent works designs;
- Details of the various elements within the building that are provided for maintenance and have safety and health implications for using them;
- Details of residual safety & health issues relating to maintenance and cleaning procedures for the overall structure;
- Details of any unusual or specified construction method which may need to be reversed or have a particular sequence of disassembly during future alteration or demolition;
- Information regarding the removal or dismantling of any specialised installed plant or equipment which is fixed and integrated part of the structure i.e. lifting or access arrangements;
- Details of the equipment and maintenance facilities including maintenance procedures for each structure and part therein;
- Manuals and where appropriate certificates produced by specialist contractors and suppliers which outline operating and maintenance procedures and schedules for plant and equipment as part of the structure;
- Details of the location and nature of all utilities and services including emergency and fire fighting systems;
- Details of any specific materials that could be hazardous to health or flammable during future exposure or under certain conditions;
- Details of any unusual hazards dealt with during the works; and,
- As built/as-installed drawings for all design disciplines fully indexed and marked as final records.

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### **Schedule of Temporary Works & Design**

The method of working chosen by the Contractor and the sub-contractors will dictate the requirements for temporary works designs.

It is anticipated that some or all of the following temporary works (not comprehensive list) will require a design element (to be prepared by a suitably qualified and competent engineer):

- Trench support to lift pit excavations.
- Demolition of arched slab.
- Temporary frame to support platform excavations until new RC walls cast to strength.
- Demolition of platform slab to form opening in lift shaft.
- Provision of edge protection subsequent to the formation of the opening in the subway slab and the platform opening.
- Provision of edge protection within all door openings in the lift shaft.
- Mobile or fixed scaffolding.
- Formwork for casting of new RC slabs and lift shaft walls & pit.
- Temporary securing of any new lift structure or cladding components during erection until fully secure.
- Temporary platform over platform level opening and arch opening.
- Temporary boarding up of lift structure door openings.

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**Existing Safety Files and Documentation**

*Client to Insert information as available*

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