

Project: SET CLASSROOM REFURBISHMENT WORKS
AT ST. MICHAELS COLLEGE, LISTOWEL, CO. KERRY

Client: The Board of Management of St. Michaels College, Listowel Co. Kerry

Job No.: 426001-2

Current Issue: 1

Current Stage: Tender Stage

No. of Pages: 15

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Designer's Assessment of Safety during Construction and Maintenance taking account of the Principles of Prevention. This assessment has been carried out as recommended in the ACEI / IEI / RIAI publication "Designing for Safety". Before reading this assessment you are advised to refer to that document and in particular, but not exclusively to, paragraphs 19-22 inclusive)

Tick the appropriate Yes, TBC or No box below, and if a hazard exists describe it in the left hand column below, and describe the decisions and actions to be taken in the right hand column below. If in doubt tick TBC for the hazard until such time as it has been established, beyond doubt, whether the hazard exists or not.

No	Key Hazards Identified (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, etc.) Refer to attached Advice Notes. List the Hazards below, when known.....	YES Applies to this project	To be confirmed	NO N/A for this project	Decisions/Action List the decisions and actions to be taken to eliminate, reduce, evaluate, combat, adapt etc, the risks present at this stage. See Principles of Prevention listed below),	Action By:-
1.	Burial Under Earthfall:	✓			Actions to be taken to reduce the risk:-	
1.1.	<u>Hazard Identified:-</u> Potential collapse of excavations due to insufficient support. <u>Risk associated with the Hazard:-</u> Risk to construction works during excavations <u>Foreseeable Consequences / Who may be affected:-</u> There is a risk to persons working in deep excavations.				Limited Excavations for site services trenching and removal of lower gr floor slab. Minimise depth of excavations where possible. Batter side slopes. Appropriate measures to prop excavations are to be implemented. Foundation trenches are to be propped if over 1.2m deep and/or where required in unstable ground conditions. Mechanically excavate where possible and limit manual operations to protected areas.	

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					The contractor should consider suitable edge protection as well as a banksman when operating plant and machinery.
2.	Engulfment in Swampland: (15)			✓	
2.1.	<u>Hazard Identified:-</u> <u>Risk associated with the Hazard:-</u> <u>Foreseeable Consequences / Who may be affected:-</u>				
3.	Falling From a Height: (15)	✓			
3.1.	<u>Hazard Identified</u> Works to existing attic for ceiling works and external painting works. <u>Risk associated with the Hazard:-</u> Falling from a height, edge protection, partially complete floors and decks, openings in floors and decks. <u>Foreseeable Consequences / Who may be affected:-</u> There is a risk to persons working on the construction site.				Provide adequate safe access at all levels and provide edge protection during the works. Provide temporary netting support as necessary to attic areas.
4.	Unstable Ground: (15)			✓	
4.1.	<u>Hazard Identified:-</u> <u>Risk associated with the Hazard:-</u> <u>Foreseeable Consequences / Who may be affected:-</u>				
5.	Underground Services: (12, 13)	✓			
5.1.	<u>Hazard Identified:-</u> Existing underground services including utilities such as electrical drainage water supply.				Contractor to complete underground utility survey to accurately locate underground services. Hand dug slit trenching

No	Key Hazards Identified (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, etc.) Refer to attached Advice Notes. List the Hazards below, when known.....	YES Applies to this project	To be confirmed	NO N/A for this project	Decisions/Action List the decisions and actions to be taken to eliminate, reduce, evaluate, combat, adapt etc, the risks present at this stage. See Principles of Prevention listed below),
	<u>Risk associated with the Hazard:-</u> Electrocution, loss of power and communications, environmental risks with broken sewers, water damage from watermains <u>Foreseeable Consequences / Who may be affected:-</u> There is a risk to persons working on the construction site.				to be undertaken at critical junctions at construction stage.
6.	Undermining Existing Foundations: (15)	✓			
6.1.	<u>Hazard Identified:-</u> Digging Electrical trenches close to existing foundation <u>Risk associated with the Hazard:-</u> Damage to existing foundation affecting the integrity of the building <u>Foreseeable Consequences / Who may be affected:-</u> There is a risk to persons working on the construction site.				Pre works survey and Works to be completed in a phased manner to avoid the existing foundations.
7.	Work on or Near Existing Boundaries / Structures: (15)		✓		
7.1.	<u>Hazard Identified:-</u> <u>Risk associated with the Hazard:-</u> <u>Foreseeable Consequences / Who may be affected:-</u>				
8.	Work on or Near Fragile Roof: (16)	✓			
8.1.	<u>Hazard Identified:-</u> Works to existing attic for ceiling upgrade works.				Provide adequate safe access at all levels and provide edge protection during the works. Provide temporary netting

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	<u>Risk associated with the Hazard:-</u> Fall through the roof / attic areas. <u>Foreseeable Consequences / Who may be affected:-</u> Construction workers				support as necessary to attic areas.
9.	Installation of Scaffolding: (17)	✓			
9.1.	<u>Hazard Identified:-</u> Scaffolding may be required for the refurbishment works including external painting and tying of scaffold <u>Risk associated with the Hazard:-</u> Overall stability of scaffold <u>Foreseeable Consequences / Who may be affected:-</u>				Tying locations and details to be reviewed with design team. Bespoke scaffold design for non-standard scaffold where required.
10.	Collective Protection Needed:		✓		
10.1	<u>Hazard Identified:-</u> <u>Risk associated with the Hazard:-</u> <u>Foreseeable Consequences / Who may be affected:-</u>				
11.	Chemicals: (18, 19, 20, 21, 22, 23)		✓		
11.1	<u>Hazard Identified:-</u> <u>Risk associated with the Hazard:-</u> <u>Foreseeable Consequences / Who may be affected:-</u>				

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12.	Confined Spaces: (20)	✓			
12.1	<u>Hazard Identified:-</u> Works to gas supply upgrades in confined areas. <u>Risk associated with the Hazard:-</u> The potential to be overcome by gases when working within the confined areas. The potential for the need for evacuation of a person <u>Foreseeable Consequences / Who may be affected:-</u>				Monitor/assess gas levels. Put evacuation plan in place
13.	Asbestos: (18)		✓		
13.1	<u>Hazard Identified:-</u> <u>Risk associated with the Hazard:-</u> <u>Foreseeable Consequences / Who may be affected:-</u>				Any suspect of Asbestos containing materials in the flooring to be notified to architect and removed by specialist asbestos removal contractor.
14.	Demolition: (21)	✓			
14.1	<u>Hazard Identified:-</u> Existing ceiling is partially collapsed <u>Risk associated with the Hazard:-</u> Consequential collapse. <u>Foreseeable Consequences / Who may be affected:-</u> Construction staff.				Provision of temporary propping during the repair works.
15.	Lead: (21)		✓		
15.1	<u>Hazard Identified:-</u> <u>Risk associated with the Hazard:-</u>				

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	<u>Foreseeable Consequences / Who may be affected:-</u>				
16.	Ionising Radiation: (25)		✓		
16.1	<u>Hazard Identified:-</u> <u>Risk associated with the Hazard:-</u> <u>Foreseeable Consequences / Who may be affected:-</u>				
17.	Biological: (18, 19, 20, 21, 22, 23)		✓		
17.1	<u>Hazard Identified:-</u> Covid 19 <u>Risk associated with the Hazard:-</u> Transmission of virus <u>Foreseeable Consequences / Who may be affected:-</u>				Adhere to government guidelines
18.	Overhead Lines: (13, 14, 26)	✓			
18.1	<u>Hazard Identified:-</u> Lifting Operations <u>Risk associated with the Hazard:-</u> Clash with overhead lines during lifting operations <u>Foreseeable Consequences / Who may be affected:-</u>				Develop and maintain lifting plan if required for large fitted units..
19.	Drowning: (27)			✓	
19.1	<u>Hazard Identified:-</u> <u>Risk associated with the Hazard:-</u>				

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	<u>Foreseeable Consequences / Who may be affected:-</u>				
20.	Underground Works: (27)			✓	
20.1	<u>Hazard Identified:-</u> <u>Risk associated with the Hazard:-</u> <u>Foreseeable Consequences / Who may be affected:-</u>				
21.	Explosives: (27)			✓	
21.1	<u>Hazard Identified:-</u> <u>Risk associated with the Hazard:-</u> <u>Foreseeable Consequences / Who may be affected:-</u>				
22.	Compressed Air Systems / Divers: (27)			✓	
22.1	<u>Hazard Identified:-</u> <u>Risk associated with the Hazard:-</u> <u>Foreseeable Consequences / Who may be affected:-</u>				
23.	Heavy Steel Structures: (28)			✓	
23.1	<u>Hazard Identified:-</u> <u>Risk associated with the Hazard:-</u>				

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	<u>Foreseeable Consequences / Who may be affected:-</u>				
24.	Precast Concrete Frames: (28)			✓	
24.1	<u>Hazard Identified:-</u> <u>Risk associated with the Hazard:-</u> <u>Foreseeable Consequences / Who may be affected:-</u>				
25.	Heavy Prefabricated Plant: (28)			✓	
25.1	<u>Hazard Identified:-</u> <u>Risk associated with the Hazard:-</u> <u>Foreseeable Consequences / Who may be affected:-</u>				
26.	After Build Maintenance:	✓			
26.1	<u>Hazard Identified:-</u> <u>Risk associated with the Hazard:-</u> <u>Foreseeable Consequences / Who may be affected:-</u>				
27.	Roof Access:			✓	
27.1	<u>Hazard Identified:-</u> <u>Risk associated with the Hazard:-</u> <u>Foreseeable Consequences / Who may be affected:-</u>				Not as part of these works.
28.	Window Cleaning:			✓	

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28.1	<u>Hazard Identified:-</u> <u>Risk associated with the Hazard:-</u> <u>Foreseeable Consequences / Who may be affected:-</u>				windows installed to be tilt and turn for cleaning from inside
29.	General Cleaning:		✓		Externally the building can be cleaned via Existing Provision of hard standing to access gutters via MEWP or similar from building perimeter.
29.1	<u>Hazard Identified:-</u> <u>Risk associated with the Hazard:-</u> <u>Foreseeable Consequences / Who may be affected:-</u>				
30.	Statutory Inspections:		✓		
30.1	<u>Hazard Identified:-</u> <u>Risk associated with the Hazard:-</u> <u>Foreseeable Consequences / Who may be affected:-</u>				Access on site during works for statutory inspections to be coordinated via the PSCS.
31.	Plant Maintenance:			✓	
31.1	<u>Hazard Identified:-</u> <u>Risk associated with the Hazard:-</u> <u>Foreseeable Consequences / Who may be affected:-</u> Risk to maintenance workers.				
32.	Contaminated ground:			✓	

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32.1	<u>Hazard Identified:-</u> <u>Risk associated with the Hazard:-</u> <u>Foreseeable Consequences / Who may be affected:-</u>				
33.	Site Restrictions: (2, 3, 4, 5, 6)	✓			
33.1	<u>Hazard Identified:-</u> Construction Access shared School <u>Risk associated with the Hazard:-</u> Construction traffic movements and risk to public vehicles and pedestrians <u>Foreseeable Consequences / Who may be affected:-</u>				Traffic Management Plan and coordination with school arrange for access and parking on site.
34.	Other Work Activities: (7, 8, 9, 10, 11)		✓		
34.1	<u>Hazard Identified:-</u> Other works on site concurrently <u>Risk associated with the Hazard:-</u> Lack of coordination / defining of works areas leading to risks to construction works <u>Foreseeable Consequences / Who may be affected:-</u> Construction works.				Note separate works may be completed at the building These works completed by others and may be ongoing concurrently with the proposed works Separate construction building access provided.
35.	Carcinogens: (22)			✓	
35.1	<u>Hazard Identified:-</u> <u>Risk associated with the Hazard:-</u> <u>Foreseeable Consequences / Who may be affected:-</u>				

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36.	Other Hazards:			✓	
36.1	<u>Hazard Identified:-</u> <u>Risk associated with the Hazard:-</u> <u>Foreseeable Consequences / Who may be affected:-</u> Constructin workers.				
Items to be drawn to the attention of contractor(s): (For inclusion in Preliminary H&S Plan). List any risk that will be passed on to the Contractor and they will have to consider at Tender Stage and Construction Stage. Note: Only risks that are deemed, by the Designer, to be significant and unusual, and which the Contractor cannot reasonably know about or deduce, should be drawn to the contractor's attention. Information about risks that a Contractor could be expected to routinely identify and deal with should not be included. To do otherwise could result in significant information being swamped by a mass of routine everyday information.					
	On site works by other contractor associated with the installation of the ESB Sub MV room and associated site civil works.				
	Delivery and Installation of heavy and specialist equipment including the MRI Unit.				
Risks that the client has taken responsibility for (at this stage) List any risks that the Client has agreed to take responsibility for at this stage. Acceptance by client must be in writing and must accompany this document.					

Advice Notes

Non-exhaustive list of parameters to be considered:

1. State land uses for area adjoining site and on roads to the site entrance.
Assess location of proposed site entrance in relation to existing uses and activities especially in relation to dust, noise, dangerous processes and traffic. Note access arrangements to those parts of the site which will continue to be used by the client.
2. Review working hours with Client, having regard to the adjacent land uses and buildings and note any restrictions on such hours.
3. The contractor is to install suitable hoarding and ensure site remains secure at all times.
Site parking restrictions.
Storage restrictions, segregated from the works.
Cleaning regime is to be implemented on site and this will include access roads to site.
4. Impact of traffic on immediate local environment.
5. Traffic management plan for the site.
The contractor is to take into account pedestrian traffic especially near the site entrances and feeder roads to the site.
Highlight any schools or other heavily pedestrianised areas near the site or site entrance.
6. Separation of site traffic to (adjacent) premises must be established where possible.
The contractor is to ensure and maintain fire vehicle, bin and delivery access to buildings adjacent to the site at all times.
Separation of site traffic and traffic to (adjacent) premises must be established where possible. Speed limits.
The contractor shall implement an appropriate booking in and out system for all site operatives and visitors.
Procedures to safepass and other certification methods.
Contractors personnel shall carry appropriate (and visible) identification at all times on site.
The contractor shall implement a site specific Health and Safety induction procedure.
Vehicular and personnel routes shall be separated on site especially near the access to the site.
Review access times to the site.
7. Obtain advice from Client and include.
8. Layout of existing and new services included in drawing package. Known services to be identified with the Client and Engineer prior to commencement on site. All diverted services to be documented. Reference to complexity of project is needed.
9. Fixtures, and fittings of machinery review with Client/Services Engineers. Will Electrical terminations and data terminations be required for equipment and machinery?
10. State if new services are to be installed by services providers such as Bord Gáis, ESB, etc. as separate contract to the Client
11. To be advised by the Design Team and Client if and when other items of work activities become known.
12. Obtain advice from Client, Civil Engineer and/or Services Engineer and include here.
Enter drawing numbers of relevant drawings if any.
13. Obtain advice from Client, Civil Engineer and/or Services Engineer and include here.
Enter drawings numbers of relevant drawings if any.
If services are to be re-located prior to commencement of other works on site.
Service Engineer to assess and advise, include advice.

14. Obtain advice from Client, Civil Engineer and/or Services Engineer and include here.
Enter drawings numbers of relevant drawings if any.

If services are to be re-located these should be re-located prior to commencement of other works on site, Services Engineer to assess and advise, include advice.

Where electrical cables are near access roads or cross (site) traffic routes, and external roads an assessment is to be made of the design to establish if this risk can be eliminated or reduced.

Where this cannot be eliminated protective measures must be put in place at the outset of the contract, Services Engineer to assess and advise, include advice.

15. Works involving particular risks, which would be appropriate to specify in the Preliminary Safety and Health Plan are:
 - Items 1 & 2 of the Schedule 1 where the existence of a particular risk would not be evident and reasonably deducible from drawings or other support documentation to a competent Project Supervisor for Construction Process.
 - Items 3 to 10 of Schedule 1 where such risks are reasonably foreseeable by the Project Supervisor Design Stage.

Non-Exhaustive List of Work involving particular risks to the safety and health of persons at work

 1. Work which puts persons at work at risk of burial under earthfalls, 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.
 2. Work which puts persons at work 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.
 3. Work with ionising radiation requiring the designation of controlled or supervised areas as defined in Article 20 of Directive 80/836/Euratom.
 4. Work near high voltage power lines.
 5. Work exposing persons at work to the risk of drowning.
 6. Work on wells, underground earthworks and tunnels.
 7. Work carried out by divers at work having a system of air supply.
 8. Work carried out in a caisson with a compressed-air atmosphere.
 9. Work involving the use of explosives.
 10. Work involving the assembly or dismantling of heavy prefabricated components.

In preparing this section of the Preliminary Safety and Health Plan ensure full consultation with the Structural, Civil and Services Engineers and Temporary Works Designer and include their advice where relevant.

16. Project Supervisor for Construction Stage is to assess risk already outlined for existing fragile roofing materials and more specifically for roof lights if they exist.

17. The installation of high level services at all levels requires extreme caution and care including all scaffolding, etc.

High level Systems should, where possible, be commissioned prior to scaffolding removal to reduce the necessity for hoists, etc.
Method statement required.

The use of collective protective measures such as nets and mobile platforms is to be considered by the Contractor wherever possible during the erection of the works.

An assessment should be made to review if the work can be avoided or reduced, where not possible to eliminate this type of work control measures as stated above are to be requested.

18. Where friable asbestos is identified, and prior to the main renovation work continuing, the asbestos must be removed.

This in most cases, will involve employing a specialist contractor who will give 28 days notification to the HSA and will also prepare a method statement outlining the exact procedures to follow in order to remove the asbestos safely.

All data sheets must be retained for the Safety and Health file.

[For building constructed prior to the mid 1970's an inspection report by expert organisation is to be included in the Preliminary Safety and Health Plan with request to monitor the site for potential of concealed Asbestos especially with regard to insulation and services]

19. Obtain advice from the Client and include.

20. Obtain advice from the Client and include.

Obtain advice from the Services Consultants that the design of the service ducts, plant rooms is reviewed and assessed and that sufficient space is provided for installation, commissioning and maintenance.

21. Lead paint has not been used in significant quantities since the mid 1970s.
Where disturbed during construction or accessible to children after completion, lead should be removed at the earliest possible time during construction. Lead content in paint to be assessed, if applicable, and included in the Preliminary Safety and Health Plan.
22. Substances classified as carcinogens include zinc chromate, and certain classes of bituminous substances, which are used in caulking or sealants.
[Obtain advice from the Design Team and Client. If no advice is received state that the Project Supervisor Design Process has not been notified by the Design Team or Client of any materials that may present an exceptional hazard or risk. No R45/R49 substances specified. Note: fire-stopping and cavity barriers executed in mineral fibre quilts and batts will be used to be non-shed variety and where cut suitable masks to be used and gloves and other site personnel to be provided with suitable protection where working near works involving putting up of batts and quilts.
23. These are a component of many coatings, sealant and foams, particularly of "two pack" coatings or urethanes.
Obtain advice from the Design Team and Client. If no advice received state that the Project Supervisor Design Process has not been notified by the Design Team or Client of any materials that present an exceptional hazard or risk. In case of use, all people involved must be fully trained in the use of same.
24. Obtain advice from the Design Team and Client. If no advice received state that the Project Supervisor Design Process has not been notified by the Design Team or Client of any materials that present an exceptional hazard or risk. No such substances are to be used by the Contractor unless no equivalent alternative exist. In case of use, all people involved must be fully trained in the use of same.
Identify any source of effluent, natural water source and highlight possible contamination, Project Supervisor Construction Stage to develop test regime for potential biological, chemical hazards.
Obtain Client advice on any known potential biological, chemical hazards.
Draw attention to the possibility of Weils disease where rodents can be expected to be present on site.
25. Are ionisation smoke detectors to be installed throughout the building. Obtain advice from Services Engineers and Client of any equipment to be installed
Ionising radiation is also used in airport and other security systems where property or people are scanned.
26. Obtain advice from Client, Civil Engineer and/or Services Engineer and include here.
Enter drawing number of relevant drawings if any.
If services are to be re-located these should be re-located prior to commencement of other works on site or at the earliest possible time. Services Engineer to assess and advise, include advise.
Where electrical overhead powerlines are near access roads or cross (site) traffic routes, an assessment is to be made of the design if this risk can be eliminated or reduced, where this cannot be eliminated protective measures must be put in place at the outset of the contract, Services Engineer to assess and advise, include advice.
27. Obtain advice from Client, Civil Engineer and Services Engineers and include.
Ponds, rivers, culverts shown on Civil Engineering drawing number(s) and included in Appendix B.
Obtain advice from Client, Civil Engineer and Services Engineers on each specified topic and include.
28. Fabrication, delivery and erection of structural steelwork and precast concrete panels should be the subject of a detailed method statement from the Main Contractor and Temporary Work Designer to be lodged with the Project Supervisor Construction Stage and the Project Supervisors Design Process prior to commencement.
Where boilers, Air Handling Units and associated plant are to be lifted into high level plant rooms, a Method statement should be required. The M & E contractor is to advise the Project Supervisor Construction Stage on this prior to the construction stage of the project.

The Principles of Prevention:

Regulation 15(1) of S.I. No. 291 of 2013 states that all designers must take account of the General Principles of Prevention which are contained in Schedule 3 to the Safety, Health and Welfare at Work Act 2005. They are as follows:

- a) The avoidance of risks.
- b) The evaluation of unavoidable risks.
- c) The combating of risks at source.
- d) The adaptation of work to the individual, especially as regards the design of places of work, the choice of work equipment and the choice of systems of work with a view, in particular to alleviating monotonous work, and work at a predetermined work rate and to reducing their effect on health.
- e) The adaptation of the place of work to technical progress.
- f) The replacement of dangerous articles, substances or systems of work by non-dangerous or less dangerous articles, substances or systems of work.
- g) The development of an adequate prevention policy in relation to safety, health and welfare at work which takes account of technology, organisation of work, working conditions, social factors and the influence of factors related to the working environment.
- h) The giving to collective protective measures priority over individual protective measures.
- i) The giving of appropriate training and instructions to employees.

It should be noted that:

- Only risks that can reasonably be foreseen at design stage can be assessed.
- Risks to those building and to those who might be affected by this work (eg: members of the public) must be considered. Risks during construction, and subsequent maintenance or repairs must be considered.
- Risk assessment may be simple or elaborate depending on the nature of the project and the risk in question. Conventions, generally taken, define a "hazard" as a condition or event with the potential to cause harm, and define a "risk" as the probability (P) that harm from a particular hazard will occur, combined with the likely severity (S) of the harm. $R = S \times P$. Note: it is accepted that this is a very subjective area where good judgement counts more than rigid formulae.
- As the project proceeds, designers need to assess the design and the materials to be used, to establish whether a risk is being introduced and to consider whether this risk can be removed or minimised.