

Wrea Green

2067-02

The Construction (Design and Management)
Regulations 2015:
Summary of Significant Residual Hazards to Health & Safety

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Foreword

The following is a summary of the key risks to health and safety that we have identified in relation to the above project. All construction activities involve risk and it is not possible to eliminate all risks by design. This summary does not identify all construction risks, but aims to communicate those significant residual hazards that have not been eliminated through the structural engineering design and preparation of the working drawings and may not be readily apparent to the contractor and others in the project team. Risks associated with common hazards, e.g. those that are expected to be understood by a competent contractor, are not included.

This summary of residual hazards is to be appended to the Construction Phase Plan prepared by the Principal Contractor; copies of which are to be kept on site at all times and referred to regularly during the completion of the works. The Construction Phase Plan is subsequently to be developed into the Health and Safety File by the Principal Designer as a source of information to help in the reduction of risks involved with future construction work, cleaning, maintenance, alterations, refurbishment and demolition.

The Principal Designer on this project is Civic Engineers up to detailed design (Stage 4).

For construction, the Principal Designer is yet to be defined.

Residual Risk	Response in Design	Action by Contractor
1. Working close to public/adjacent properties	<ul style="list-style-type: none"> a. Considered implications of structural works at site boundaries b. Avoid/reduce potentially noisy and dusty activities. 	<ul style="list-style-type: none"> c. Contractor to secure site and provide barriers and protection where necessary, and to prepare method of working, sequencing and temporary work proposals. d. Contractor to prepare proposals for controlling noise and dust and agree with Local Authority.
2. Working close to road	<ul style="list-style-type: none"> a. 	<ul style="list-style-type: none"> b. Contractor to review any agreed access strategy and prepare his methods of working in accordance with good working practice.
3. General access	<ul style="list-style-type: none"> a. Considered implications of construction constraints on the design of the structural works and specification of prefabricated elements 	<ul style="list-style-type: none"> b. Contractor to prepare and implement proposals for deliveries and protection of services/structure.
4. Working on restricted site	<ul style="list-style-type: none"> a. The proposed drawings will give details of the design imposed load of the new structures. b. Drawings show understanding of existing structure. 	<ul style="list-style-type: none"> c. Contractor to prepare and implement their proposals in accordance with good working practice. d. Storage of materials should be kept to a minimum, once on site.
5. Working on site clearance	<ul style="list-style-type: none"> a. Existing structure details & copies of appropriate reports produced b. Site attendance to deal with queries during strip out and demolition and confirm advice in writing. c. Contract preliminaries to define working hours and noisy periods in the contract preliminaries. 	<ul style="list-style-type: none"> d. Contractor to satisfy himself on the condition and stability of existing structure at all stages of work. e. Contractor to prepare method and sequence of works with temporary works proposals if necessary. f. Contractor to adopt good working practices.
6. Working in or close to excavations	<ul style="list-style-type: none"> a. Existing ground conditions and trial pit investigations provided on drawings. 	<ul style="list-style-type: none"> b. Contractor to prepare method/sequence of works and follow good working practices.

Residual Risk	Response in Design	Action by Contractor
7. Working at height	a. No work in height should be required as part of the proposed works.	b. Contractor to prepare method/sequence of works and follow good working practices.
8. Working close to plant/vehicles	a. Consider use of plant for delivery, moving and installation.	b. Contractor to prepare his proposals and follow good working practice.
9. Lifting	a. Consider use of plant for delivery, moving and installation of new structure. b. Weight of new structural elements has been considered and optimised in the structural design.	c. Contractor to prepare method/sequence of works, temporary works. d. Specialist subcontractors to prepare fabrication drawings for steelwork e. Contractor to follow good working practices.
10. Working on existing structures	a. Investigated the nature and form of existing structure. Provided details of the existing structure, its historic development and its condition where known. b. Existing structure details provided.	c. Contractor to satisfy himself as to the building's condition and produce his own sequence of construction and temporary works proposals. d. Contractor to satisfy himself on the condition and stability of structure to be amended at all stages of work and prepare method/sequence of works and temporary works if necessary.
11. General access for maintenance and repairs	a. Drawings have been prepared that describe the permanent stability system for the structure and allowable loads. A copy of these will be made available to the Contractor.	b. Contractor to provide comprehensive details (drawings, specifications, manuals etc) for H&S file.
12. Future demolition of structures	a. Provide full set of final proposed drawings for H&S file. Identify any features of design that the demolition contractor should be aware of.	b. Contractor to provide comprehensive details (drawings, specifications, manuals etc) for H&S file including any specialist works.
13. Working with hazardous materials	a. Specifying hazardous materials/practices to be avoided where possible.	b. Contractor to prepare his proposals and follow good working practice and use PPE where necessary.

Residual Risk	Response in Design	Action by Contractor
14. Working near Livestock	a.	<ul style="list-style-type: none"> b. Contractor shall ensure that livestock is removed from areas of work by landowner prior to commencement of work c. Contractor shall liaise with landowner to ensure safe working environment is maintained throughout works
15. Working near members of the public	a.	<ul style="list-style-type: none"> b. Contractor shall ensure temporary hoarding is erected around working areas within land accessible by the public prior to commencement of works c. Contractor shall liaise with landowner to ensure members of the public cannot enter the site work area d. Contractor to prepare method/sequence of works and follow good working practices.
16. Working near water	<ul style="list-style-type: none"> a. Proposed surface water drainage features (ditches and attenuation ponds) designed to ensure excessive water depths do not occur up to a critical storm scenario with climate change allowance. b. Ease of access from surface water drainage features (ditches and attenuation ponds) considered as part of design to enable escape. 	<ul style="list-style-type: none"> c. Contractor shall not work on surface water drainage features during heavy rain events. d. Contractor to be aware of potential water-borne diseases and shall take necessary preventive measure e. Contractor to prepare method/sequence of works and follow good working practices.