

**DAVENTRY DISTRICT COUNCIL
BUSINESS TEAM**

**CONSTRUCTION (DESIGN & MANAGEMENT) REGULATIONS 2015
CONSTRUCTION HAZARD CHECK LIST**

Project: Riley Close A972 – Over Clad Roofing

SITE AND ACTIVITY WIDE				
ACTIVITY/ ELEMENT	POTENTIAL HAZARD	ACTION REQUIRED AT DESIGN STAGE	YES	N/A
SITE WIDE <i>site access</i> <i>site deliveries</i> <i>site compound</i> <i>traffic routes</i> <i>pedestrian routes</i> <i>housekeeping</i> <i>work areas</i>	Site access/egress	Investigate local traffic restrictions and potential access/egress problems. Provide information (including any planning restrictions) in tender documents.	✓	
	Contact with moving vehicle/plant	Plan layout of site to allow adequate access to all areas/sides of structures where practicable. Segregate existing/construction operations where possible.	✓	
	Unauthorised access onto site	Specify fencing/hoarding and security to suit locality. Consider early installation of any permanent fencing.	✓	
	Clashes of operations/trades	Design to avoid return visits by trades and for early installation of permanent segregation. Highlight clashes resulting from design in tender documents.	✓	
	Slips and trips	Plan layout of site to allow adequate storage areas where practicable.	✓	
	Falls from height	Design for early installation of floors, stairs, roofs, walls, parapets etc.		N/A
	Electricity	Take account of existing overhead, adjacent or underground electrical cables and avoid work in close proximity where reasonably practicable.	✓	✓
	Fire or other emergency	Design for early installation/operation of permanent fire detection/fighting systems and means of escape.		N/A

SITE AND ACTIVITY WIDE				
ACTIVITY/ ELEMENT	POTENTIAL HAZARD	ACTION REQUIRED AT DESIGN STAGE	YES	N/A
WORKING SPACE/ WORKING PLATFORMS	Falls from height	Design to allow early installation of permanent floors, covers to holes and edge protection where reasonably practicable. Allow for work to be carried out at ground level or from permanent floor level where possible.	✓	
	Manual handling/Musculo-skeletal injuries	Avoid site layouts or dictating construction methods which limit access space where reasonably practicable.	✓	
	Entry into confined spaces	Avoid creating confined spaces where possible. Minimise operations involving hazards in confined spaces.	✓	
	Fire/emergency evacuation	Design for early installation of stairs and fire compartmentation where possible.		N/A
MATERIALS/ SUBSTANCES/ COMPONENTS	Manual handling/ Musculo-skeletal injuries	Design to allow mechanical handling where possible. Ensure unit weights and sizes of materials are reduced to acceptable levels where manual handling is unavoidable. Specify easily achievable tolerances where possible. Provide adequate information.	✓	
	Cuts and abrasions	Avoid specifying materials and components with sharp edges, corners etc where reasonably practicable.	✓	
	Carcinogenic diseases	Avoid specification of known carcinogenic materials and substances where possible. Where no alternative ensure that adequate information is available at tender stage.	✓	
	Respiratory injuries	Avoid specifying materials and substances which are likely to cause respiratory problems where possible. Design to avoid cutting, chasing etc. Where no alternative ensure that adequate information is available at tender stage.	✓	
	Skin diseases	Avoid specifying materials and substances which are likely to cause skin diseases. Where no alternative ensure that adequate information is available at tender stage.	✓	
CUTTING/WELDING /HOT WORK	Fire/explosion	Avoid specifying or designing in the need for site welding, cutting or hot working methods where reasonably practicable.	✓	
	Dust	Avoid specifying or designing in the need for cutting holes and chases where reasonably practicable.	✓	
	Fumes/chemical or metal splash	Avoid specifying or designing in the need for site welding or hot working methods where reasonably practicable.	✓	
	Radiation	Avoid specifying or designing in the need for site welding or radio-graphic weld testing where reasonably practicable.	✓	

DEMOLITION AND EARTHWORKS				
ACTIVITY/ ELEMENT	POTENTIAL HAZARD	ACTION REQUIRED AT DESIGN STAGE	YES	N/A
DEMOLITION/ DISMANTLING/ STRIPPING OUT/ ALTERATION/ RENOVATION <i>dangerous structures</i> <i>façade retention</i> <i>pre-stressed concrete</i> <i>post-tensioned concrete</i> <i>reinforced concrete frames</i> <i>large pre-cast panels</i> <i>steel frames</i> <i>asbestos</i> <i>mineral fibres</i>	Live services	Adequate survey. Provide adequate information noting any nature and location of known live services.		N/A
	Uncontrolled collapse	Adequate survey. Provide adequate tender information noting principles of structural stability and any special hazards inherent in the existing construction or adjoining properties.	✓	
	Falls from height	Avoid unnecessary demolition and the specification of complex or hazardous demolition sequences.	✓	
	Hazardous materials/ substances	Adequate survey/testing. Provide adequate information noting any hazardous materials/substances.	✓	
	Work with asbestos – respiratory injury/carcinogenic	Adequate investigation/testing (specialist). Provide adequate information at tender stage.	✓	
	Dust	Specify any special requirements.	✓	
	Noise/vibration	Consider existing/surround premises and their occupants. Specify any noise or vibration restrictions.	✓	
	Fire/explosion	Identify and record presence of any live gas/pipes, fuel tanks/suppliers etc. Provide adequate tender information.		N/A

DEMOLITION AND EARTHWORKS				
ACTIVITY/ ELEMENT	POTENTIAL HAZARD	ACTION REQUIRED AT DESIGN STAGE	YES	N/A
EARTH WORKS/GROUND WORKS/EXTERNAL WORKS <i>earth moving</i> <i>foundations</i> <i>piling</i> <i>basements</i> <i>retaining walls</i> <i>underpinning</i> <i>trenches</i> <i>sewers</i> <i>below ground drainage</i> <i>below ground services</i> <i>below ground tanks</i> <i>below ground chambers</i> <i>landscaping</i>	Ground contamination	Adequate investigation. Specify de-contamination measures. Avoid excavation in contaminated areas.		N/A
	Proximity of landfill sites	Avoid spreading contamination. Provide adequate tender information.		
	Radon	Is the project in a Radon affected area? Has the building had previous Radon problems? Have mitigation measures been considered, ie. sumps, membranes, underfloor ventilation.		N/A
	Live services	Adequate investigation. Avoid excavation near live services where possible. Provide adequate tender information.		N/A
	Instability of excavations	Adequate investigation. Minimise excavation, number of operations and time required below ground in poor conditions. Provide adequate tender information.		N/A
	Instability of adjacent structures	Adequate investigation of adjacent structures/foundations. Design to avoid disturbing adjacent foundations. Provide adequate tender information.		N/A
	Flooding/ground water	Adequate investigation. Avoid deep excavations where possible. Provide adequate tender information.		N/A
	Confined spaces	Avoid creating, and minimise operations involving, hazards in confined spaces where possible.		N/A
	Fire/explosion	Identify gas/fuel pipes/tanks, methane, dust etc. Avoid where reasonably practicable. Provide adequate information.		N/A
	Noise/vibration	Consider existing/surrounding premises. Specify any noise or vibration restrictions.		N/A

STRUCTURE, CLADDING AND FINISHES				
ACTIVITY/ ELEMENT	POTENTIAL HAZARD	ACTION REQUIRED AT DESIGN STAGE	YES	N/A
ERECTING/ CONSTRUCTING STRUCTURES <i>steelwork</i> <i>insitu reinforced concrete</i> <i>pre-stressed reinforced concrete</i> <i>pre-stressed concrete timber masonry blockwork roof structures stairs</i>	Collapse – temporary instability	Avoid designs which involve temporary instability during construction or specify erection sequence including details of temporary support measures required. Provide adequate tender information.		N/A
	Collapse – construction loadings	Identify construction loadings on drawings together with any temporary support requirements. Provide adequate tender information.		N/A
	Falls from heights	Maximise pre-fabrication, pre-casting, use of simple intrinsically safe connection details and allow for early installation of floors, roof decks, stairs, edge protection etc to minimise risk from high level working. Detail to allow easy connection of safety lines, harnesses etc. Specify easily achievable tolerances where possible.	✓	
	Handling major components Substances	Consider access, storage, erection procedures and lifting details for large or awkwardly shaped components.	✓	
	Spillage of materials	Design temporary works to avoid spillage.		N/A
	CLADDING/ GLAZING <i>flat roofwork</i> <i>pitched roofwork</i> <i>masonry</i> <i>brickwork</i> <i>blockwork</i> <i>stonework</i> <i>panels</i> <i>windows</i> <i>patent glazing</i> <i>sheeting</i> <i>tiling</i> <i>slating</i>	Temporary instability	Avoid designs which involve temporary instability during construction or specify an erection sequence which avoids it. If unavoidable, detail temporary support measures required.	✓
Construction loadings		Identify construction loadings on drawings.	✓	
Falls from height		Maximise pre-fabrication, adopt simple details and allow for early installation of floors, roof decks, stairs, parapets, edge protection etc to minimise risk from high level working. Specify easily achievable tolerances where possible. Detail to allow easy connection of safety lines, harnesses etc where necessary. Avoid specifying large or long decking/cladding panels where possible.	✓	
Falls through fragile materials		Avoid specifying fragile materials. Specify safety glass where appropriate. Provide guard rails.	✓	
Falling objects		Ensure adequate lifting provision on components. Maximise pre-fabrication.	✓	
Fire		Specify non or low flammable and non-combustible materials and products where possible.	✓	

STRUCTURE, CLADDING AND FINISHES				
ACTIVITY/ ELEMENT	POTENTIAL HAZARD	ACTION REQUIRED AT DESIGN STAGE	YES	N/A
FINISHES <i>stone</i> <i>ceramics</i> <i>coatings</i> <i>paints</i> <i>sealers</i> <i>adhesives</i> <i>wood</i> <i>wood based</i> <i>materials</i> <i>synthetic materials</i>	Hazardous materials/ Substances	Avoid specifying finishes involving hazardous materials/substances where reasonably practicable. Substitute safer alternatives. Specify pre-finished components where reasonably practicable.	✓	
	Falls from heights	Avoid specifying applied finishes at high level where possible. Minimise labour intensive finishes at high level.	✓	
	Dust/fumes	Avoid specifying surface preparation, application methods and processes likely to release hazardous dust or fumes where reasonably practicable, ie cutting, drilling, abrading, polishing etc. Avoid dust creating site mixed powder materials where reasonably practicable. Specify easily achievable tolerances where possible.	✓	
	Work in confined spaces	Avoid specifying applied finishes in confined spaces where possible. Avoid specifying hazardous materials/substances or application in confined spaces.		N/A
	Noise/vibration	Avoid specifying finishes requiring use of vibratory tools or noisy equipment for surface preparation or application methods where reasonably practicable.	✓	
	Fire	Avoid specifying materials using inflammable solvents or provide tender information.	✓	

ANY OTHER POTENTIALLY HAZARDOUS ELEMENT FOR THIS SPECIFIC PROJECT				
ACTIVITY/ ELEMENT	POTENTIAL HAZARD	ACTION REQUIRED AT DESIGN STAGE	YES	N/A

**FUTURE MAINTENANCE, CLEANING, REPAIR, ALTERATION
REFURBISHMENT AND DEMOLITION**

ACTIVITY/ ELEMENT	POTENTIAL HAZARD	ACTION REQUIRED AT DESIGN STAGE	YES	N/A
FUTURE MAINTENANCE/ CLEANING/ REPAIR/ ALTERATION/ REFURBISHMENT/ DEMOLITION/ DISMANTLING SYSTEMS	Falls from heights	Position controls, valves and equipment requiring regular maintenance at low level (or lowerable) and specify low maintenance equipment/fittings where reasonably practicable. Design in adequate safe systems of access, edge protection, provisions for the attachment of safety equipment etc, where necessary. Provide adequate information regarding built in safety facilities etc. In Health & Safety File/maintenance manual.	✓	
	Falls through fragile materials	Avoid specifying fragile materials where possible. Design in adequate safe systems of access, edge protection, provisions for the attachment of safety equipment etc where necessary. Provide adequate information regarding built in safety facilities etc. In Health & Safety File/maintenance manual.	✓	
	Live services	Provide adequate isolation facilities for all plant and equipment, zoning isolation for service runs and labelling. Provide appropriate switchgear where live working will be essential. Provide adequate information regarding isolation facilities, zoning, labelling and switchgear in Health & Safety File/maintenance manual.	✓	
	Manual Handling/muscular-skeletal injuries	Design components for ease of handling and replacement where reasonably practicable. Provide adequate access facilities, working space and lifting facilities around all plant and equipment where necessary. Provide adequate information regarding access and lifting facilities in Health & Safety File/maintenance manual.	✓	
	Hazardous materials/substances	Avoid specifying hazardous materials and substances where reasonably practicable. Provide adequate information regarding any unavoidable hazardous materials or substances for inclusion in Health & Safety File.	✓	
	Uncontrolled collapse	Provide adequate information regarding design, parameters, design loadings, means of ensuring structural stability, construction details, specific alteration/demolition hazards (ie pre-stressing etc) in Health and Safety File.	✓	

FUTURE MAINTENANCE, CLEANING, REPAIR, ALTERATION REFURBISHMENT AND DEMOLITION				
ACTIVITY/ ELEMENT	POTENTIAL HAZARD	ACTION REQUIRED AT DESIGN STAGE	YES	N/A
FUTURE MAINTENANCE/ CLEANING/ REPAIR/ ALTERATION/ REFURBISHMENT/ DEMOLITION/ DISMANTLING SYSTEMS	Fire	Design to ensure maintenance of fire protection systems and integrity of fire separation. Note in Health & Safety File/maintenance Manual that the Fire Brigade should be informed and special precautions taken if fire protection systems are temporarily disconnected.	✓	

CHECKED & APPROVED	
SIGNED:	SIGNED:
PRINT NAME: Christopher Layton	PRINT NAME:
DATE: 16th January 2017	DATE: