

Designers Risk Assessment

Site Address	Foakes Memorial Hall, Stortford Road, Great Dunmow, Essex CM6 1DG
Client	Great Dunmow Town Council
Project No:	11066
Project Title	Proposed 3-Storey Extension
Date of Issue	
Principal Designer (Design Stage)	Edward Parsley Associates Ltd
Principal Designer (Construction Stage)	

Edward Parsley Associates Ltd

Ref	Hazard Identified	Risk Associated	Design Response	Residual Risk / Hazard Remaining	Management of Risk	Risk Responsibility	Live	Closed
1	Vehicle movements during site set up and subsequent deliveries / vehicular movements to and from the site	General public / building users / construction workers	Traffic management plan to be developed by Principal Contractor to facilitate deliveries. Access to Contractor's compound to be gated and kept entirely separate from public access to car park as indicated on Drwg No. 11066/R-07. Delivery vehicles are to be given clear delivery instructions, timed delivery slots and routes of travel.	Drivers not clear on access routes, taking wrong route causing risk of congestion and / or collision to other road users / pedestrians.	Site Manager to coordinate the delivery of materials, ensuring they are offloaded as safely and quickly as possible and not stored on access routes or outside of the Contractor's compound area.	PC	Yes	
2	Unauthorised access onto site.	Public straying onto site, falling into open excavations, slips and trips, being struck by materials being moved on site.	Site Manager to manage access to site to prevent unauthorised persons into work areas. Ensure doors and gates are closed / locked when not in use.	Public ignoring fencing and warning signs and straying into work areas.	Signage will be displayed at all site entry points and 'no entry' signs. Contractor's compound to have a separate point of access that will remain locked when not in use. All contractors to be vigilant.	PC	Yes	
3	Working close to statutory undertakers' equipment	Damage to services and possible impact on surrounding residents with a knock on effect from leaking pipes / damaged drains etc	A CCTV drain survey and digital drainage map of the site have been undertaken and are available for the PC to view. Ascertain information on the location of gas, water, electric and other relevant services prior to commencement of below ground works.	Location of services being in a different location to the information obtained – un-identified services being found	Principal Contractor to undertake CAT scan for buried services prior to commencing operations. Mark out service locations on site so they are clear. Be vigilant when excavating and be aware of any service indicators	PC / SubC	Yes	
4	Working in close proximity to overhead cables	Risk of coming into contact with electric and BT cables	Overhead cables are known to be present close to the access to the Contractor's compound. Location of cables indicated on Drwg No. 11066/R-07. Principal Contractor to include within traffic management plan.	Moving vehicles / scaffolders not seeing the drawings with the cables marked or not seeing them on site	Site Manager to coordinate the delivery of materials. Ensure all delivery drivers are made aware and all operatives fully briefed before commencing work on site. Deploy banksman for moving vehicles if necessary.	PC	Yes	
5	Dust, noise and vibration.	Long term health effects to contractors – respiratory issues, hearing loss, hand arm vibration, whole body vibration, carpal tunnel syndrome etc.	Site management to ensure dust is minimised during cutting / drilling activities i.e. wetted down, suitable hearing and respiratory protection must be used by operatives. If deemed necessary a HAVS monitor will be used to assess vibration levels.	Limit operation working hours as appropriate. Workers will be monitored for signs of HAVS, work rotated as necessary.	Site Manager is to monitor the workforce and liaise with the site supervisors of sub-contractors. Limit exposure time as appropriate.	PC / SubC	Yes	

6	Deep Excavations	Risk of land slips / falling debris into excavation / trips or falls into excavations	Design the minimum depth trenches where required and advise on suitable shuttering systems on any un-avoidable deep excavations	Open excavations unavoidable due to works at basement level.	Appropriate briefings by the SM prior to commencement of work / signage warning of deep excavations. Cover all deep excavations and do not leave open for any period of time unless working on them.	PC / SubC	Yes	
7	Contaminated Ground	Construction workers	A limited site investigation has been carried out in the vicinity of the new extension, and is included with the Pre-Construction Information. There is no reason to believe contaminated material is present on this site, however desktop studies should be carried out as a precaution.	Desktop studies not finding contamination that is present	PC to determine safe methods of working in the event of finding contaminated material.	PC / SubC	Yes	
8	Application of hazardous materials, paints and adhesives.	Breathing / health problems. Skin irritation. Fire Hazard	Specify low VOC products wherever possible. Use products in well ventilated areas. Include provisions in Construction Phase Plan.	Refer to the specific methods of use identified in the manufacturer's instructions for products which require ventilation during application. Contractor to ensure all measures are taken eliminate a risks during application or installation.	Contractor to provide method statement. Ensure adequate ventilation and safety during application. Follow manufacturer's instructions regarding use, removal and disposal.	PC	Yes	
9	Hot Works including cutting and drilling of materials causing sparks, hot-works etc. Potential fire hazards.	Lacerations from cutting of pre-fabricated materials. Fumes from cutting and drilling in confined spaces. Potential fire risk from sparks, hot metals.	Only competent and experienced workers to carry out any cutting and drilling on pre-fabricated materials, and only under a permit to work. Carry out as much cutting, drilling and fixing outside in the compound areas before carrying up to site. Use correct PPE such as gloves, glasses, safety boots.	As risk identified.	Contractor to provide site specific RAMS.	PC / SubC	Yes	
10	Working in vicinity of live services	Damage to existing live services, water, electricity, data etc. Risk of fatality or injury, electrocution, laceration, strain, burns etc.	Specification to state that all existing services to be traced. Include provisions in Construction Phase Plan.	Contractor error - permits not put in place before working on the service.	Contractor to provide Method Statement. Identify locations, isolate and make safe. Decommission, deconstruct, remove safely.	PC / SubC	Yes	

11	Risk of asbestos containing materials	Exposure to loose fibres, risk of lung cancer, mesothelioma.	ACMs are known to be present within the existing building. Refer to Asbestos R&D Survey included with the Pre-Construction Information	R&D Survey failing to identify all ACMs within the building; these could be disturbed during the Works exposing all occupants of the area to asbestos fibres.	Principal Contractor to thoroughly review R&D Survey and asbestos register prior to commencing works. ACMs to be removed by specialist sub-contractor under controlled conditions where required under legislation. All site operatives to be vigilant and stop work immediately if suspect material is found.	PC	Yes	
12	Manoeuvring of heavy goods	Injury to workers / damage to buildings of moving objects	Specify lightweight materials where possible / large beams to be designed with splices to enable them to be manoeuvred in lighter sections	PC not following details and ordering larger sections of steels and un-avoidable heavy goods	Appropriate plant and equipment to be provided by the PC to enable safe manoeuvring of material. Risk assessments to be provided for operations as necessary.	PC	Yes	
13	Working at Height	Falling causing personal injury and possible injury to workers beneath	Design to ensure suitable space is available for scaffolding etc. If not then provide alternate safe options for working at height.	Scaffolding and protection not being suitable installed or becoming loose / modified by construction workers	Site Manager to periodically check the condition of the working platforms and provide briefings to workers working at height.	PC	Yes	
14	Proximity to occupied areas of existing building	Falling objects and damage to building, injury to building users	Contractor's compound and work area(s) segregated from the rest of the building as far as possible. Propose play group is temporarily relocated during construction operations.	Employer might require some parts of the existing building to remain in use.	Site Manager to liaise closely with the Employer's nominated representative and ensure all site operatives are made aware of the extent and time(s) of use of the existing building. Plan noisy and /or potentially disruptive operations accordingly. Prevent building users / members of the public from straying into the work area(s). Employer to ensure building users / visitors are made fully aware of construction operations taking place on site.	PC / Emp	Yes	
15	Demolitions to existing building	Falling objects, unstable structures whilst demolition is taking place	Design to ensure suitable space is available for scaffolding etc to provide a layer of protection. Only competent and experienced workers to carry out any demolition works. Use correct PPE such as gloves, glasses, safety boots.	As risk identified.	Contractor to provide site specific RAMS before demolitions take place.	PC / SubC	Yes	
16	Trees adjacent to site entrance	Damage to trees and /or falling branches	Trees located outside fence-line of Contractor's compound	Damage to from delivery vehicles	Site Manager to coordinate the delivery of materials. Ensure all delivery drivers are made aware.	PC	Yes	

17	Working adjacent to existing buildings with windows facing the site/ work area(s)	Opening of windows and flying debris / dust filtration into windows	Suggested temporary works / notifications to building users	Building users failing to adhere to information	Principal Contractor to provide appropriate protection in front of windows, ensuring daylight is not compromised.	PC	Yes	
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