

DESIGN RISK ASSESSMENT

Project	Seacroft Hospital, Leeds - Fencing		
Document Reference	5060.LRM.PcmentSeac.002		
Date	13/05/2015		
Site Description	The site is located in the outer-city suburb of Seacroft, east of Leeds. The contract area is located within the Seacroft Hospital Complex which is a live operation managed by Leeds Teaching Hospital NHS Trust. The contract area is under the stewardship of the HCA. Fencing is proposed around previously demolished building to secure the sites and restrict access. The circulatory road will remain publicly accessible during and post this contract, for staff and visitors using the operational parts of the hospital.		
Project Description	Installation of 1.8m high welded mesh fencing around areas of hard standing (flattened buildings) to provide a secure site. Pedestrian and vehicle access gates to be installed. Knee rail fencing to be installed around soft landscape areas to south of the site.	Client	Homes and Community Agency St. George's House Kingsway Team Valley Gateshead NE11 0NA

Ref	Activity	Persons at Risk	Potential Hazards	Design Measures taken to eliminate or reduce hazard	Information on residual risks
1	Site setup	1,2	Conflict/collision with construction vehicles and members of the public	Drawing D5060.LRM.PcmentSeac.001A shows the fencing layout.	- Keep clean all site vehicles, NHS car park areas, footpaths, etc clean. - Where necessary the risks to users of any footpaths or playing areas will be minimised by surrounding all areas of work with security fencing. - Ensure a banksman is used when plant and machinery is moving across the site 5mph speed limit to be observed. - Construction & working areas to be fenced off from public. - Contractor to implement traffic management measures to clearly define public routes (pedestrian and vehicular) and separate between construction areas. Traffic light system may be required during construction. - A procedure to be put in place to cover communication in restricted areas

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(3) Maintenance workers

2	Site access / manoeuvres	1,2	Dust	-	- Contractor to dampen down gravel, loose soils during sustained dry weather to reduce dust becoming airborne. 5mph speed limit to be observed.
3	Vandalism	1,2	Injury to Contractor's personnel & the public	N/A	- In order to reduce the amount of potential vandalism and theft from the site, the works shall be kept clean, tidy and secure outside working hours. - No materials or tools shall be left unsecured. - The site must be inspected at weekends to ensure any damage or potential risks are remedied.
4	Vegetation Clearance Works / tree works	1,2	Falling trees a hazard to the construction workers and members of the public should they stray into areas being cleared	Drawing D5060.LRM.PcmentSeac.001A indicates tree removal to allow fencing installation.	- The use of appropriate personal protective equipment by Contractor's personnel e.g. safety helmet, eye protection, ear defenders, safety boots, chainsaw mitts as required by the latest appropriate Approve Code of Practice. - Traffic management measures to be put in place during works adjacent highways and internal roads. - During high winds it may be the case that branches, or in fact trees may cause a hazard which could cause injury. In order to reduce the risk a tree survey should be carried out routinely and any hazards reported and made safe. In addition, following a period of high winds, a walk over survey should be carried out with any hazards identified either removed or made safe.
5	Vegetation Clearance Works / tree works	1,2	Use of mechanical maintenance equipment		- Use of appropriate mechanical methods to be employed wherever possible, with machinery operated only by competent personnel aware of risks of traversing on the site, side slopes and rough terrain. - The use of appropriate personal protective equipment by maintenance personnel (e.g. safety helmet, eye protection, ear defenders, safety boots, chainsaw mitts, etc) as required by the latest appropriate Approve Code of Practice.

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6	Vegetation Clearance Works / tree works	1,2	Ingestion (dust/fumes) and skin irritation from trees and wood chip		- The use of proper hygiene facilities and practices to avoid contamination or infection should be employed. PPE to be used during necessary operations (ie. gloves when working with trees/shrubs). - Personnel should be informed not to ingest any twigs, leaves, fruit or berries from trees / shrubs
7	Excavations	1	Underground services are present on site and potential for damaging those during construction operations	Services plans made available and included within drawing pack to tenderers.	- Particular attention to be paid to utilities around proposed fence and gate locations. Hand dig procedures to be employed in vicinity of utilities – Refer to utility provider guidance - Contractor to liaise with utility companies prior to commencement of works - Identify electricity cables by cat scanning and careful inspection. Prior to any excavation carry out detailed investigation. - Permit to work system to be in operation if working near gas mains.
8	Excavations (general operations)	1	Tripping / falling into excavation	Excavations are unavoidable for foundations and safe working measures should be employed to prevent accidents.	All excavations to be protected with barriers. Contractor should try to ensure that excavations are not left open overnight and when this is required the excavation should be fenced off
9	Excavation (working near existing trees)	1	Potential for falling trees if excavations undermine tree roots	Existing trees are shown on the drawings and excavations have mainly been placed aware from vegetated areas.	Where trees are adjacent to proposed excavations, these will need to be clearly marked and protected to ensure that excavations do not pose a risk to the trees stability.
10	Fence installation	1	Manual handling (Heavy materials)	Proprietary fencing panels specified to provide a known weight of material and enable advance planning of construction by the contractor.	- Lifting plant to be used where possible. Where plant is used it should be located on solid and level platform. - All contractors and their employees should be made aware of the HSE's manual handling guidelines and should not be carrying materials individually that could cause serious injury if dropped. - The working area should be cleared of potential trip hazards so as to limit the amount of obstacles to traverse whilst moving large objects. - Good fitting gloves are to be worn when carrying materials that could cause cuts or abrasions.

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11	Fence installation	1	Cuts, crushing, punctures associated with open mesh type fence panels		When handling fence panels wear protective clothing. Consider using overalls, heavy duty gloves, eye protection, etc.
12	1.1m high fence installation (on a wall)	1,2	Working at height	Reduced need for working at height where possible. Height of fence panels reduced to 1.1m high for ease of handling	- Contractor shall use safe working methods, providing method statements. - Use of powered access platforms, man safe system, safety barriers on scaffold and platforms should be employed where possible. - Appropriate PPE to be worn at all times. - Restrict pedestrian access at base of wall
13	Cutting materials	1,2	Ingestion (dust/fumes)	Design reduces the need for cutting by using manufactured unit sizes	- Consider location of cutting works and need for protective screening. - Materials to be dampened prior to onsite cutting
14	Maintenance Access	2,3	Potential of conflict between members of the public and maintenance vehicles/personnel	Fence to be installed back from road kerb to allow personnel to inspect fence line from off-road	- Consider traffic management requirements. - Appropriate PPE to be adorned.

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