

OUTLINE

Method Statement

**Demolition of Airey Block,
Pickering Junior School,
Middleton Road,
North Yorkshire**

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SECTION: 1 DESCRIPTION OF THE PROJECT

Introduction

1.1. Contractor Details	
Contact: Company Name: Address:	TBC
1.1.2. Contract Details	
Site Address:	Pickering Junior School Middleton Road Pickering
1.1.3. Description of Project	
	Demolition of existing redundant airey classroom building at the above site
1.1.4. Programme	
Est. Start Date:	TBC
Duration of Work:	TBC

1.2 Details of Project Team

1.2.1. Employer (Client)	
Contact: Address:	NYCC Morgan House, Mount View, Northallerton DL6 2YD Tel: 01609 780780
1.2.2. Principal Designer	
Contact: Address:	TBC
1.2.3. Principal Contractor	
Contact: Address:	TBC
1.2.5. Contract Administrator	
Contact: Address:	
1.2.6. Quantity Surveyor	
Contact: Address:	
1.2.7. Architect	
Contact: Address:	
1.2.8. H & S Executive	
Contact: Address:	Health and Safety Executive The Lateral 8 City Walk Leeds LS11 9AT Tel: 01132 834382

1.3. Extent and Location of Existing Records and Plans

1.3.1. Existing Drawings / Site Sketches	
1.3.2. Survey Information	Demolition / Refurbishment Asbestos survey

	See pre-demolition plan and contract documents for service information.
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Method Statement

Preliminary Work

Before any work commences all services must be physically isolated and written confirmation of the isolations received from the relevant authorities.

Any remaining services in work areas will be clearly identified before work commences, and be adequately protected.

All structures for demolition / removal to be clearly identified.

Safe means of access & emergency egress for work areas provided and clearly identified.

Any underground and overhead services identified before work commences.

Any asbestos containing materials will have been identified and marked ready for removal.

Locations of any underground voids identified and adequately protected.

Sequence of Events

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Standard Personal Protective Equipment worn on this site.

Safety helmets.

Safety boots or shoes.

Overalls or suitable clothing.

Gloves.

Hi visibility jacket or vest.

Procedure No 1

Erection of Heras Fencing

- Operatives to unload the fencing from the wagon and position the panels round the site.
- Operatives to unload the solid block feet that secure fence panels.
- The solid block feet to be positioned round the site at approximately 2m distance.
- The solid block feet are to be positioned at right angles to the direction of the fence panels to ensure stability.
- If kerb stones are present ensure that the solid block feet are positioned either all on the kerb or all on the road, never half on and half off.
- Position the first and second block in the position that the fence is to be erected.
- Two operatives will lift the panel and place the end uprights of the panel into the appropriate holes in the blocks. A third operative will move the blocks if necessary to ensure it is in the right position.
- Position next block and lift next panel and position as above.
- After the positioning of the second fence panel the holding clips will be fitted and secured by means of a suitable size spanner.
- This procedure to be carried out until the full demolition site is fully fenced in.
- If deemed necessary rakers will be fitted to the fence panels to ensure it either does not fall down due to wind conditions or can be pushed down by persons wanting to gain access to the site. The rakers will be fitted on the inside of the fence only and not to be positioned in places where they could be a tripping hazard.
- Gates will be positioned in appropriate places to allow traffic and pedestrians to enter the site, these gates will be constructed of two fence panels left unsecured.
- When the fence is fully erected warning and information signs can be fitted, they will be fixed using nylon ties and never wire.
- Ensure the signs are not too large or that many fitted that they become a hazard with regard to being a wind break or sail causing the fence to blow over.

Procedure No 2
Asbestos Removal

- Where asbestos is found onsite, a suitably approved licensed Asbestos Removal Contractor will be appointed to carry out the removal of all asbestos containing products. • Operatives to unload the solid block feet that secure fence panels.
- The HSE will be notified under the statutory ASB5 form on the Health and Safety Executive website www.hse.gov.uk of the intended asbestos removals that are to be executed on site.
- All method statements, Risk assessments and transit plans will be included within the CPHSP.
- No follow on activities will be carried out until we have received air clearance certificates/certificates of re-occupation from the asbestos removal supervisor to confirm that the areas are safe to enter.

Procedure No 3 Cable Stripping

- Any electrical cabling will be removed for recycling prior to soft stripping and the demolition of the structure.
- No cable-stripping work will commence until the electrical supplies to the site have been irreversibly isolated either to the main distribution board by the local electricity supply company or from the main distribution board by a suitably qualified electrician. In either case an isolation certificate will be required and will be displayed within the site office.
- Demolition operatives using hand tools will cut into manageable sections all exposed electrical cabling and any which are easily extracted but which are not exposed. Large diameter electrical cabling is heavy, therefore it may be necessary to cut cabling into lengths of no more than 2 or 3 metres prior to moving it for further processing. Operatives are to exercise their judgement and experience when handling cut sections of cable to minimise the risks associated with manual handling.
- Cabling in trays or otherwise present above floor level will be accessed using a scissor lift. An exclusion zone will be created beneath the cable being cut-down using barrier tape to avoid the potential for anyone below the cable to be struck as it is allowed to fall to the floor. Consideration must be given to the possibility of a free end “whipping” due to self-weight.
- Any circular saws used must be inspected daily and used only by trained operatives. The use of hand operated, hydraulic cable shears is preferred.
- The removal of cable insulation and armour is to be undertaken using a purpose-built machine. Such machines have a number of safety features such as guards and remote emergency stops. All safety features are to be checked on a daily basis. None of the guards or other safety features are to be defeated or over-ridden. As with all machinery, long hair and loose clothing are to be securely tied-back to reduce the risk of the operator becoming entangled in the equipment.
- All waste generated by the cable-stripping is to be disposed of appropriately, i.e: sheathing is to be placed in a general waste skip.
- Under no circumstances is the sheathing to any cabling to be removed by burning.

Procedure No 4

Soft strip of the property

Prior to demolition being undertaken the properties will be soft stripped. This involves manual removal of items such as doors etc. The main purpose of soft strip works is to ensure a clean recycled product is produced from the building materials once crushed. Any soft stripping works which may disturb asbestos products will be avoided and undertaken following asbestos removal works.

- Operatives using a combination of the above tools will remove furnishings, fixtures, fittings, any floorboards, doors, windows, etc.
- Timber materials such as doors, frames, skirting boards etc. will be removed using iron bars; they will also be removed from the property.
- Doors will be removed from the frames and placed into skips.
- Doorframes will be levered from the walls and the frame dismantled, care being taken with regard to the nails. The timbers will be placed into the skip.
- All other timber structures including partitions constructed of timber and plasterboard will be dismantled and placed into skips.
- Ceiling boards or plaster will be removed first along with any fibreglass found in the loft areas.
- Fibreglass will be removed and placed directly into bags and sealed.
- If deemed necessary the operatives will wear harnesses and restraint lanyards fixed to a suitable anchor point.
- Timbers will be passed out of windows or doors into specifically barriered areas within a safe area.
- The resulting debris from the soft strip will be loaded into wagons or skips as soon as possible; the wagons / skips will be sheeted to prevent dust etc. and then transported to a waste disposal site.

Procedure No 5

Working at height generally

- Working at height will be restricted to a minimum, with the majority of high level demolitions being carried out by mechanical means i.e. Demolition type excavators / Plant fitted with controlled attachments such as mechanical grapples, concrete breakers, concrete pulverisors and buckets.
- The main area where working at height will be carried out will be to remove the roof and wall coverings that have been deemed accessible. All non asbestos roof and wall coverings will be removed by mechanical means if possible.
- Where access to work at height may be required access will be gained by use of either Cherry Picker or Scissor Lift type Mobile Elevated Work Platform.

Procedure No 6
Demolition of buildings generally

- Prior to any structural demolitions taking place, the site supervisor and plant operatives will walk the building to familiarise themselves with the building and any potential issues.
- The site will be enclosed by use of heras type fencing. Warning signs will also be displayed on the site boundary in clear and visible positions.
- The building that is to be demolished will be soft stripped as described above.
- Once the building has been reduced to a concrete frame, it will be systematically taken down.
- Each roof truss will be cut free of the head of one of the supporting columns and lowered towards the ground; the other end of the roof truss will be free of the head of the supporting column and lowered to the ground.
- Any isolated columns will be reduced to the ground using mechanical means and if possible recycled or disposed of in the correct manner.
- The process described above will be repeated until the demolition of the building has been completed.
- All materials will be removed from the site in suitable skips that will be transported from the site for disposal.

Procedure No 7

Remote demolition of the property (if required)

Remote demolition is the operation of demolishing a building using mechanical equipment and avoiding the need for manual assistance. This will be undertaken in the building once soft strip works are complete.

- The remote demolition method ensures that no operatives are in close proximity to the properties during demolition.
- An exclusion zone will be in force during demolition by remote methods and will be an area around the properties of 2 x the height where possible. (This will not always be possible on this project therefore great care will be taken with regard to the right of way access for the pedestrians and vehicular movements).
- Work will commence at the front of the building and carefully work towards the rear of the site. Banksmen will ensure the adjacent right of way is clear of pedestrians and vehicles during any demolition operations.
- Only two members of personnel will be allowed inside the exclusion zone, they will be the Site Manager or his deputy acting as standby man and the Machine Operative.
- The exclusion zone will be marked out by either the site boundary fence or by temporary fencing, such as red and white tape and be controlled by the presence of standby men at all times during the remote demolition period.
- At no stage will the machine be positioned inside the properties, it will always be located outside.
- The machine operator will be made aware of any cellars within the building and the general layout of them.
- Any cellar floors will be broken through prior to remote demolishing commencing.
- The machine driver will be made aware of the location and nature of any unstable ground.
- The machine commences work at a suitable point on the structure and carefully breaks down any remaining roof areas using the grab or bucket attachment.
- This is followed by the outer and inner walls taking care when working close to the outer walls that the debris falls into the working area.
- The bucket attachment pushes the walls of the properties in over and loads the wagons when the properties have been demolished.
- The machine will never track over cellars, if the machine is required to pass over a cellar, it will carefully backfill the cellar with debris.
- When the properties have been safely demolished the excavator machine with the fitted bucket attachment will load the resultant debris onto wagons for removal from site.

Procedure No 8

Removal of slabs & foundations

To be undertaken on completion of the demolition of the existing buildings.

- The remote demolition method ensures that no operatives are in close proximity to the concrete floor slabs, substructure brickwork foundations and footpaths around the properties being removed.
- An exclusion zone will be in force during the lifting of the floor slabs etc. and the loading of the debris into wagons.
- The exclusion zone will be marked out by either the site boundary fence by temporary fencing, such as red and white tape.
- Extreme care will be taken when there is the possibility of any live services in the area.
- The machine driver will be made aware of the location and nature of any unstable ground.
- The machine commences work at a suitable point on the floor slabs etc. and carefully lifts the concrete, breaking in into manageable sections.
- If necessary the pulverisor or breaker attachment will be used for breaking down sections of concrete.
- The Machine Driver will remove the slabs and foundations in a progressive manner working in a single direction.
- No area of the structure will be left in a dangerously unstable condition for any period of time.
- When the concrete floor slabs etc have been lifted and broken into manageable sections the excavator machine with the fitted bucket attachment will stockpile on site awaiting crushing.
- The ground will be levelled and all debris and rubbish loaded onto wagons and removed.

Completion

Upon completion of the works, all rubbish and materials arising from the demolition and incidental works will be removed and the areas left clean and tidy to the satisfaction of the client. It is proposed to install a grass/turf to the area upon completion along with 1.8m high green weldmesh fencing, to match existing elsewhere on the site. Plan showing location of fencing included within the planning application.

SITE RISK ASSESSMENT

Workplace Location:	Airey Building, Pickering Junior School	
Description of Activity:	Demolition Works	Ref. No
Plant / Equipment Used:	Excavator, Scissor Lifts	

IDENTIFIED HAZARDS	YES	RISK EVALUATION					
		Before Controls			After Controls		
		High	Med	Low	High	Med	Low
Access, Egress	√		√				√
Adverse Weather	√		√				√
Asbestos	√		√				√
Collapse of structure	√		√			√	
Dust, Vapours & Fumes	√		√				√
Electricity	√	√				√	
Entanglement	√		√				√
Excavations							
Explosion							
Falling objects	√	√				√	
Fall into substance							
Fire	√		√				√
Gas	√	√					
Hazardous substances	√		√				√
Heights	√	√				√	
Housekeeping	√		√				√
Lead							
Hot work / Thermal							
Noise	√		√				√
Neighbouring properties	√		√				√
Obstructions	√		√				√
Pedestrians	√		√				√
Running machinery							
Traffic	√	√				√	
Trapping injuries	√		√				√
Trespasser	√		√				√
Services (underground)	√		√				√
Slips / trips	√	√				√	
Stored energy							
Vibration	√		√				√
Water							

PERSONS AT RISK	
Employees	Yes
Authorised and unauthorised visitors	Yes
Neighbours	Yes
Members of the public	Yes

EXISTING CONTROL MEASURES
Trained Competent personnel, H&S Policy / Safety Management System

ADDITIONAL CONTROL MEASURES

Heras Fencing & Signs
H&S Plan
Method Statements
Risk Assessments
Authorised Isolations
Banksmen
Remote Demolition Method
Safe Working Platforms
Harness & Restraint (Fall Arrest) Lanyard
RPE
PPE
Safe Working Procedures
Firewatcher

INFORMATION PROVIDED TO EMPLOYEES

H&S Plan
Method Statement
Product Safety Data Sheet
Risk Assessment

ASSESSED BY:**REVIEW DATE:****SIGNED:****DATE:**