

Method Statement



Contract: Prairie Enabling Works

Title: Loco shed and Gas Works demolition

Number: 003

Revision: Rev A

Prepared By: Richard Small

Date: 02/06/2020

Checked By: Matthew Simpson

Date: 04/06/2020

Approved By: _____

Date: _____

Distribution List

Title	Name	Date	Signature

Description of Work

The overall works involve the safe demolition of the former Locomotive Repair Shed, the oxygen plant and old oxygen tanks including the disposal of all materials removed from the structures.

1.0 Risk Assessments Considered:

Asbestos	Cutting and burning works
Falling materials	Dust
Live services	
Pressurised tanks and pipelines	
Coke oven gas pipe line	
Falls from heights	

COSHH Assessments Considered:

Gas oil	
Petrol	

2.0 Plant

Demolition Excavator
Scissors lift
Tipper wagons

Labour

Plant operatives
Tipper drivers
Demolition operatives

3.0 Demolition Method

Prior to any works commencing, an asbestos survey will be carried on the existing structure to confirm the presence and location of the asbestos within the structure. (There is historical asbestos in the roof insulation which is now on the floor).

A sub-contract asbestos removal firm will attend site and remove any asbestos identified in the asbestos report. The asbestos will be bagged up, placed into a sealed waste skip and sent away for disposal local to the job by a registered waste handling facility. (Details of this are to be sourced). Site specific RAMS will be issued from the sub-contractor for the safe removal and disposal of the asbestos from site.

The first stage of the demolition will be ensuring the site is safe. The whole work area will be fenced off with 2m high security fencing and warning signs for the works. The working area will be cleared of low-level vegetation, old industrial waste and rubbish. Ensuring that all potential for trips are removed. Any hazards such as voids and manhole covers will be highlighted and cordoned off with metal pins, rope and draw cord.

The onsite facilities team will confirm isolation of all services to the buildings which include Electricity, Gas, Water, BT and also the decommission certificates for the cylinders on the old

oxygen plant. STDC will confirm the isolation of their assets in writing and label accordingly (if necessary) prior to any work commencing.

Loco Shed demolition works.

The former locomotive shed is a 2.5 storey steel framed building, featuring a north light roof arrangement with two storey brick built office and amenity block to the rear.

The first task will be to remove the side cladding and trims from the structure, which will be carried out via a MEWP to enable access to high level. Old cladding fixings will be cut off by using a cordless grinder (hot works permit needed). Cladding panels will be put into the platform and transferred down to ground level for storage and then removal from site. Edge protection will be provided at a height of 915mm to ensure safety and a fall protection from all areas of the roof, these will be erected with scaffold tubes and toe boards. The scaffolding will be fixed into place using column clamps.

With the edge protection in place, safety netting will be installed to the underside of the roof as per fall collection system. Access to the roof will be provided via a Haki scaffold tower.

Examples below of the roof height edge protection, Haki tower for access to the roof



If a cladding removal operative falls into the netting and is unable to climb back onto the roof rescue will be provided by a large work platform being lifted up capturing the operative and the netting cut to free them into the safety of the MEWP.



Above shows an example of the roof fall netting being installed including roll off capture netting up the sides in case an operative rolls down the roof, they will be captured in the net under the roof line for extraction.

Once all sheets have been safely removed the Haki tower and the safety netting will be removed from site.

The steel work demolition will be done using a mounted shear attachment for the excavator. The steel will be cut in to small sections and lowered to the ground.

The brickwork sections will be pulled down using the selector grab attachment. Small sections of wall will be removed using a twisting motion to shear off the brickwork.

Dust suppression will be used at all times during the demolition of any brickwork or concrete structures. This will be in the form of a sprinkler head directed directly at the work area. In situations where this method isn't proving 100% effective, mist atomizers cannons will be used to create a blanket over the work area.

Oxygen Plant tank removal works.

Clarification from the site onsite facilities team will confirm isolation of all services into the buildings. These include Electricity, Gas, Water, BT also the decommission certificates for the cylinders on the old oxygen plant. From a visual inspection of the tanks it looks that they have been vented and are at atmospheric pressure (However this is to be confirmed).

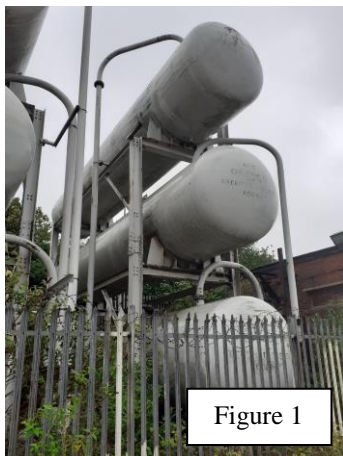


Figure 1

The pipe work attached to the top of the each individual tank shown in *figure 1*, have had section removed at low level shown in *Figure 2*



Figure

All materials and old palisade fencing to be removed from site, with a 2.0m high security fence erected around the perimeter of the work area.

A lift plan will be put together for the removal of the individual old oxygen cylinders, this will detail the size of the crane required and confirm position and locations of plate load tests that are to be carried out prior to any lifting works commencing.

Webbing straps and a spreader beam are to be used to lift the cylinders down to ground level for removal from site.

MEWPs will be used to access the tanks at height. Lifting straps will be installed to enable the crane to take the load of the tanks.

The bolts 16number will be removed using a cordless impact wrench, freeing up the cylinders from the steel structure. The remaining steels will be unbolted and taken to ground level using the same method.

The adjacent brick and concrete regulator house will be taken down to ground level using the same method as outlined above using a demolition specific excavator. The brickwork sections will be

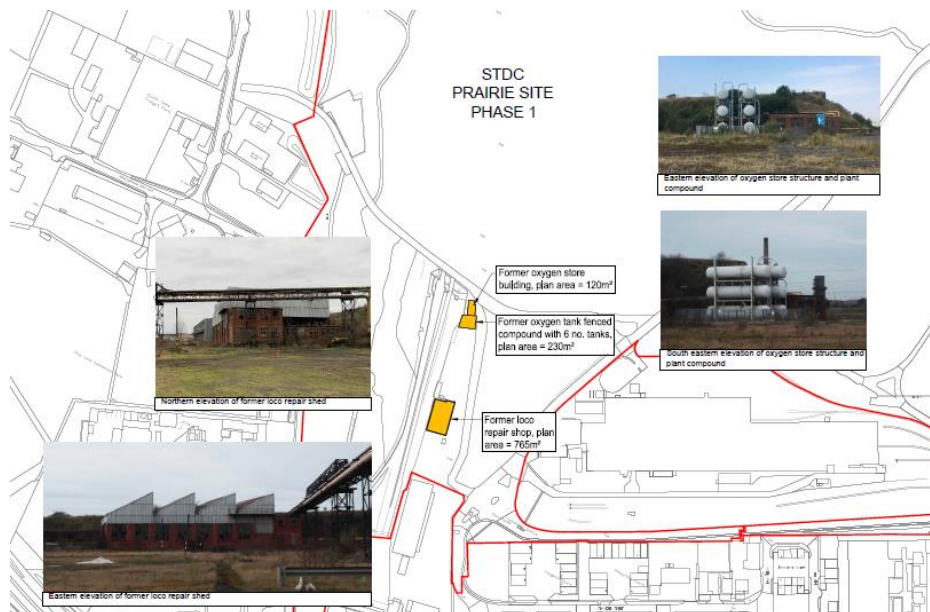
pulled down using the selector grab attachment. Small sections of wall will be removed using a twisting motion to shear off the brickwork.

The sites of both buildings will be left flush with the existing surrounding ground level with any voids back filled with the brick demolition material in the short term. The remaining foundations and surroundings will then be dealt with under a separate phase of remediation and restoration work commencing in October 2020. (permissions permitting)

4.0 Location

The site is located within the old Redcar Steel Works land, the site compound and work are will be to the rear of the Bolckow ind est Teesside, Middlesbrough TS6 7BJ. The site compound location hasn't been agreed however the approximate location of the blue box will be suggested for this.

The red out line shows the extents of the site boundary and the areas that are to be demolished are highlighted in Yellow on the below drawing.



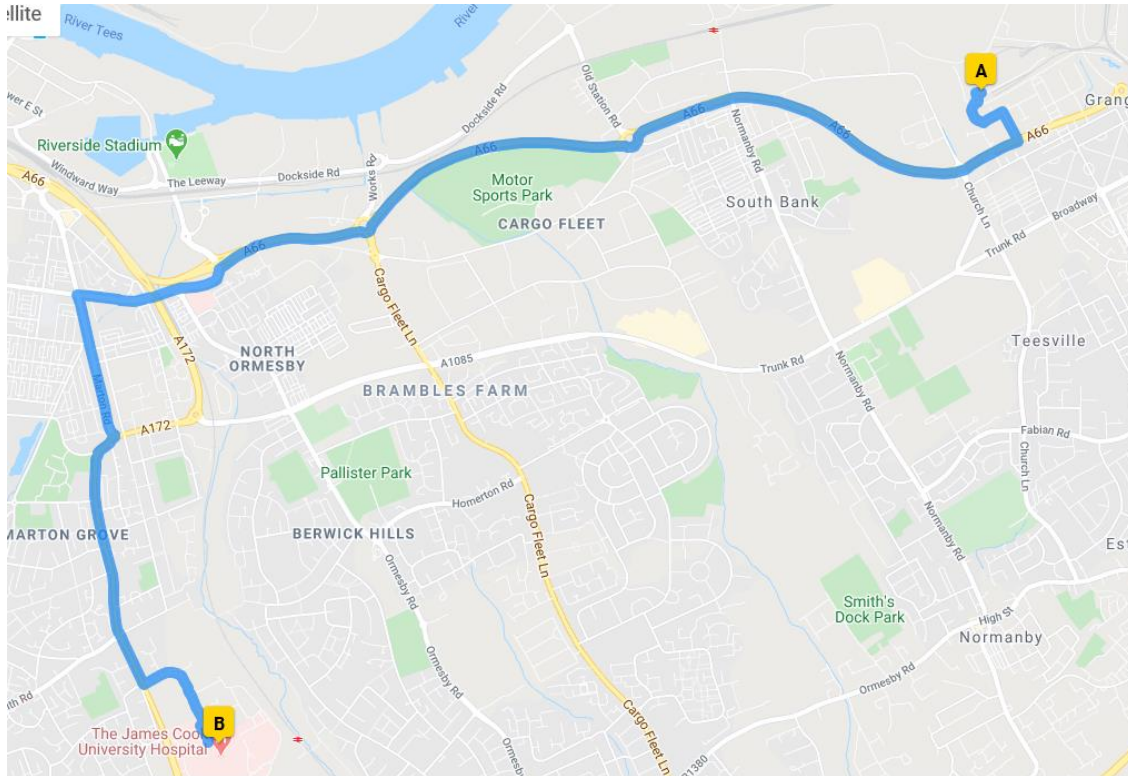
5.0 Contact Personnel

Name	Title	Telephone	Mobile
Richard Small	Site Manager		07970081199
Keith Wright	Works manager		07718489036
Matthew Simpson	Senior Engineer		07525237538

6.0 Health and Safety

6.1 Route to A&E

The James Cook University Hospital, Marton Rd, Middlesbrough TS4 3BW



Start: Nunthorpe, Middlesbrough TS6 7BJ, UK

- | | | |
|-----|---|--------------|
| 0.0 | Head west
Restricted-usage road | 0.0 Show map |
| 0.0 | Turn left
Restricted-usage road | 0.0 Show map |
| 0.0 | At the roundabout, take the 2nd exit
Restricted-usage road | 0.0 Show map |
| 0.1 | Turn left onto Stapylton St | 0.1 Show map |
| 0.1 | Turn right onto Whitworth Rd | 0.2 Show map |
| 0.1 | Turn right at the 1st cross street onto A66 | 0.3 Show map |
| 1.3 | At the roundabout, take the 3rd exit and stay on A66 | 1.6 Show map |
| 0.9 | At Cargo Fleet Lane Roundabout , take the 2nd exit and stay on A66 | 2.5 Show map |
| 0.4 | Take the exit towards Middlehaven/North Ormesby/M'bro College | 2.9 Show map |
| 0.1 | Turn left onto Borough Rd | 3.0 Show map |
| 0.5 | Turn left onto Marton Rd | 3.5 Show map |
| 0.4 | At the roundabout, take the 2nd exit onto Marton Rd/A172 | 4.0 Show map |

0.1	At the roundabout, take the 1st exit and stay on Marton Rd/A172	4.1 Show map
	Go through 1 roundabout	
0.7	Turn left	4.8 Show map
0.1	Slight right	4.9 Show map
0.2	Turn left	5.1 Show map
0.1	Arrive: Middlesbrough TS4 3BW, UK	5.2

Section time: 16 mins 16 s, Total time: 16 mins 16 s

The James Cook University Hospital, Marton Rd, Middlesbrough TS4 3BW

6.2 General

All activities will be carried out in accordance with the Health and Safety at Work 1974 and the Construction Phase Health and Safety Plan.

All persons shall wear the following as a minimum:

- Hard Hat
- Safety Boots
- High-viz vest.
- Gloves

Materials COSHH assessments will be acquired from suppliers and made available to employees. All COSHH data will be kept on site, operatives will be made aware of this when they sign up to this method statement

Prior to offloading any materials the load will be inspected by a competent person to assess the best lifting arrangement.

At the start of each working day, daily pre-start checks will be carried out by machine operatives.

During all handling operations safe-working loads of excavator and slings will be observed.

All slings, spreader bars, lifting shoes, etc. will have current test certification.

All employees and contractors to the site will be inducted before the commencement of work.

Each day employees will be informed of their task and safety issues will be discussed.

Toolbox Talks will be held regularly and attendance records kept.

6.3 Site Specific

List site specific risks associated with the works

- Unknown services
- Known services – BT, Coke Oven Gas, Electricity
- Coke Oven Gas Pipe Line
- Moving plant
- Asbestos
- Covid-19 and social distancing measures
- Nesting Birds

7.0 QA

Site Records will be kept on site and the relevant QA Forms filled out. As a minimum the following information will be recorded;

- Daily progress of work
- Labour and plant operating on site
- Inspections and reports, inc testing
- Deliveries and quantity of materials used on site
- Any delays and weather conditions.
- As-built records of line, level and position of new and existing services.

8.0 Environment

Asbestos to be removed by licenced sub-contractor

Dust and noise to be kept as low as possible during the works

9.0 Welfare

The site welfare facilities are 500m from the work area, full welfare facilities are to be provided prior to the works commencing on site to the minimum Seymour standard.

10.0 First Aid and Fire Extinguishers

The site first aiders are Richard Small, Keith wright and Matthew Simpson. First aid kits are located within the site compound in the site manager's office. Or in an emergency call 01642

11.0 Emergency Procedures

Identify the location of the fire & emergency plan (usually within Appendix D of the Construction Phase Health & Safety Plan) and identify the fire & emergency muster point location

Briefing Register

I can confirm that I have read/been briefed on the above method statement and fully understand the task required.			
Name	Signature	Company	Date