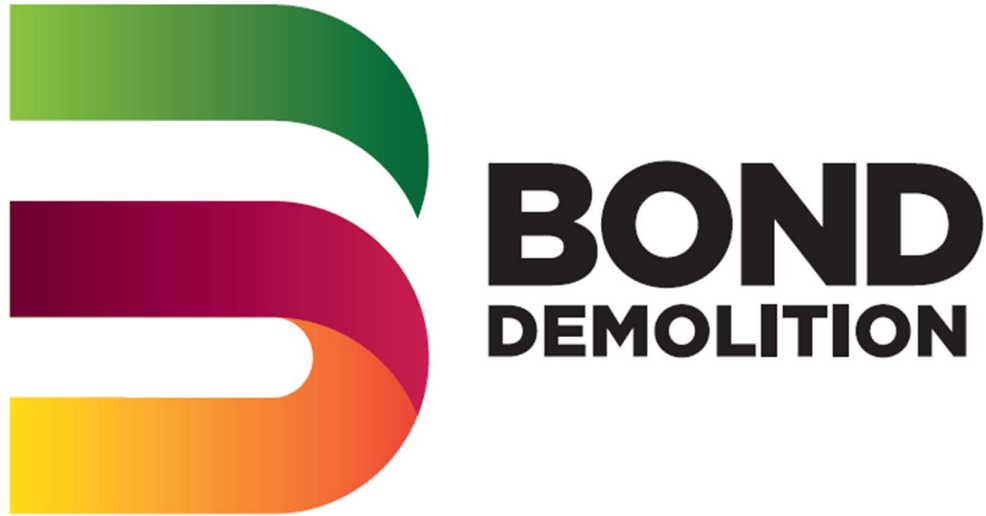




Demolition Method Statement and Risk Assessments



Demolition of the former Music/Drama and Canteen blocks

Ysgol Gyfun Ystalyfera, Glanyrafon Rd, Ystalyfera, Swansea SA9 2JJ

Contract Number – 774

<u>Edition number:</u>	<u>1</u>	<u>Completed by:</u>	<u>Alex Murphy</u>	<u>Completed on:</u>	<u>05-07-2021</u>	<u>Checked By:</u>		<u>Contract Start Date:</u>	
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This document is a safe system of works for the demolition of the outlined structure and is not to be used for financial reference

INDEX**Part 1:****COVID – 19 safe operating procedures**

1. **Preamble**
2. **Site Management**
3. **Project Detail**
4. **Site constraints and monitoring**
5. **Work Method & Demolition Sequence**

Appendix A – Considerate contractors**Part 2:****– Risk Assessments**

If at any point during the works they cannot be undertaken in line with the below method statement/risk assessments then works must stop immediately, be reviewed and any changes recorded below and conveyed to the site team during a RAMS briefing.

Version History <u>All changes to the method statement must be recorded here:</u>			
Change:	Date:	Made by:	Checked by:

Site Operating Procedures – Protecting Your Workforce**Contents**

Introduction	1
Self-Isolation	1
Procedure if Someone Falls Ill	1
Travel to Site	2
Site Access Points	2
Hand Washing	2
Toilet Facilities	2
Canteens and Eating Arrangements	3
Changing Facilities, Showers and Drying Rooms	3
Avoiding Close Working	3
Cleaning	4

Introduction

Construction sites operating during the Coronavirus Covid-19 pandemic need to ensure they are protecting their workforce and minimising the risk of spread of infection.

This guidance is intended to introduce consistent measures on sites of all sizes in line with the Government's recommendations on social distancing.

These are exceptional circumstances and the industry must comply with the latest Government advice on Coronavirus at all times.

The health and safety requirements of any construction activity must also not be compromised at this time. If an activity cannot be undertaken safely due to a lack of suitably qualified personnel being available or social distancing being implemented, it should not take place.

We are aware that emergency services are also under great pressure and may not be in a position to respond as quickly as usual.

Sites should remind the workforce at every opportunity of the Site Operating Procedures which are aimed at protecting them, their colleagues, their families and the UK population.

If a site is not consistently implementing the measures set out below, it may be required to shut down.

Self-Isolation

Anyone who meets one of the following criteria should not come to site:

- Has a high temperature or a new persistent cough - follow the guidance on self-isolation?
- Is a vulnerable person (by virtue of their age, underlying health condition, clinical condition or are pregnant)?
- Is living with someone in self-isolation or a vulnerable person.

Procedure if Someone Falls Ill

If a worker develops a high temperature or a persistent cough while at work, they should:

- Return home immediately
- Avoid touching anything

Cough or sneeze into a tissue and put it in a bin, or if they do not have tissues, cough and sneeze into the crook of their elbow. They must then follow the guidance on self-isolation and not return to work until their period of self-isolation has been completed.

Travel to Site:

- Wherever possible workers should travel to site alone using their own transport and sites need to consider:
- Parking arrangements for additional cars and bicycles, in line with the ASL COVID-19 re-start documentation all vehicles will be parked within the schools existing parking facilities and will be required to leave a space between each vehicle
- Other means of transport to avoid public transport e.g. cycling
- Providing hand cleaning facilities at entrances and exits. This should be soap and water wherever possible or hand sanitiser if water is not available
- How someone taken ill would get home.

Site Access Points

- Stop all non-essential visitors
- Introduce staggered start and finish times to reduce congestion and contact at all times
- Monitor site access points to enable social distancing – you may need to change the number of access points, either increase to reduce congestion or decrease to enable monitoring
- Remove or disable entry systems that require skin contact e.g. fingerprint scanners
- Require all workers to wash or clean their hands before entering or leaving the site
- Allow plenty of space (two metres) between people waiting to enter site
- Regularly clean common contact surfaces in reception, office, access control and delivery areas e.g. scanners, turnstiles, screens, telephone handsets, desks, particularly during peak flow times
- Reduce the number of people in attendance at site inductions and consider holding them outdoors wherever possible
- Drivers should remain in their vehicles if the load will allow it and must wash or clean their hands before unloading goods and materials.

Hand Washing

- Provide additional hand washing facilities to the usual welfare facilities if a large spread out site or significant numbers of personnel on site
- Ensure soap and fresh water is readily available and kept topped up at all time
- Provide hand sanitiser where hand washing facilities are unavailable
- Regularly clean the hand washing facilities and check soap and sanitiser levels
- Provide suitable and enough rubbish bins for hand towels with regular removal and disposal.

Sites will need extra supplies of soap, hand sanitiser and paper towels and these should be securely stored.

Toilet Facilities

- Restrict the number of people using toilet facilities at any one time e.g. use a welfare attendant
- Wash hands before and after using the facilities

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- Enhance the cleaning regimes for toilet facilities particularly door handles, locks and the toilet flush
- Portable toilets should be avoided wherever possible, but where in use these should be cleaned and emptied more frequently
- Provide suitable and sufficient rubbish bins for hand towels with regular removal and disposal.

Canteens and Eating Arrangements

With cafés and restaurants having been closed across the UK, canteens cannot operate as normal. Whilst there is a requirement for construction sites to provide a means of heating food and making hot drinks, these are exceptional circumstances and where it is not possible to introduce a means of keeping equipment clean between use, kettles, microwaves etc. must be removed from use.

The workforce should also be required to stay on site once they have entered it and not use local shops:

- Dedicated eating areas should be identified on site to reduce food waste and contamination
- Break times should be staggered to reduce congestion and contact at all times
- Hand cleaning facilities or hand sanitiser should be available at the entrance of any room where people eat and should be used by workers when entering and leaving the area
- The workforce should be asked to bring pre-prepared meals and refillable drinking bottles from home
- Workers should sit 2 metres apart from each other whilst eating and avoid all contact
- Where catering is provided on site, it should provide pre-prepared and wrapped food only:
- Payments should be taken by contactless card wherever possible
- Crockery, eating utensils, cups etc. should not be used
- Drinking water should be provided with enhanced cleaning measures of the tap mechanism introduced
- Tables should be cleaned between each use
- All rubbish should be put straight in the bin and not left for someone else to clear up
- All areas used for eating must be thoroughly cleaned at the end of each break and shift, including chairs, door handles, vending machines and payment devices.

Changing Facilities, Showers and Drying Rooms

- Introduce staggered start and finish times to reduce congestion and contact at all times
- Introduce enhanced cleaning of all facilities throughout the day and at the end of each day
- Consider increasing the number or size of facilities available on site if possible
- Based on the size of each facility, determine how many people can use it at any one time to maintain a distance of two metres
- Provide suitable and sufficient rubbish bins in these areas with regular removal and disposal.

Avoiding Close Working

There will be situations where it is not possible or safe for workers to distance themselves from each other by 2 metres.

General Principles

- Non-essential physical work that requires close contact between workers should not be carried out
- Work requiring skin to skin contact should not be carried out
- Plan all other work to minimise contact between workers
- Re-usable PPE should be thoroughly cleaned after use and not shared between workers
- Single use PPE should be disposed of so that it cannot be reused
- Stairs should be used in preference to lifts or hoists
- Where lifts or hoists must be used:
 - Lower their capacity to reduce congestion and contact at all times
- Regularly clean touchpoints, doors, buttons etc.
- Increase ventilation in enclosed spaces
- Regularly clean the inside of vehicle cabs and between use by different operators.

Site Meetings

- Only absolutely necessary meeting participants should attend
- Attendees should be two metres apart from each other
- Rooms should be well ventilated / windows opened to allow fresh air circulation
- Consider holding meetings in open areas where possible.

Cleaning

Enhanced cleaning procedures should be in place across the site, particularly in communal areas and at touch points including:

- Taps and washing facilities
- Toilet flush and seats
- Door handles and push plates
- Machinery and equipment controls
- Food preparation and eating surfaces
- Rubbish collection and storage points should be increased and emptied regularly throughout and at the end of each day.

Throughout the works we will adhere to V7 of the CLC Guidance on site operating procedures during COVID-19

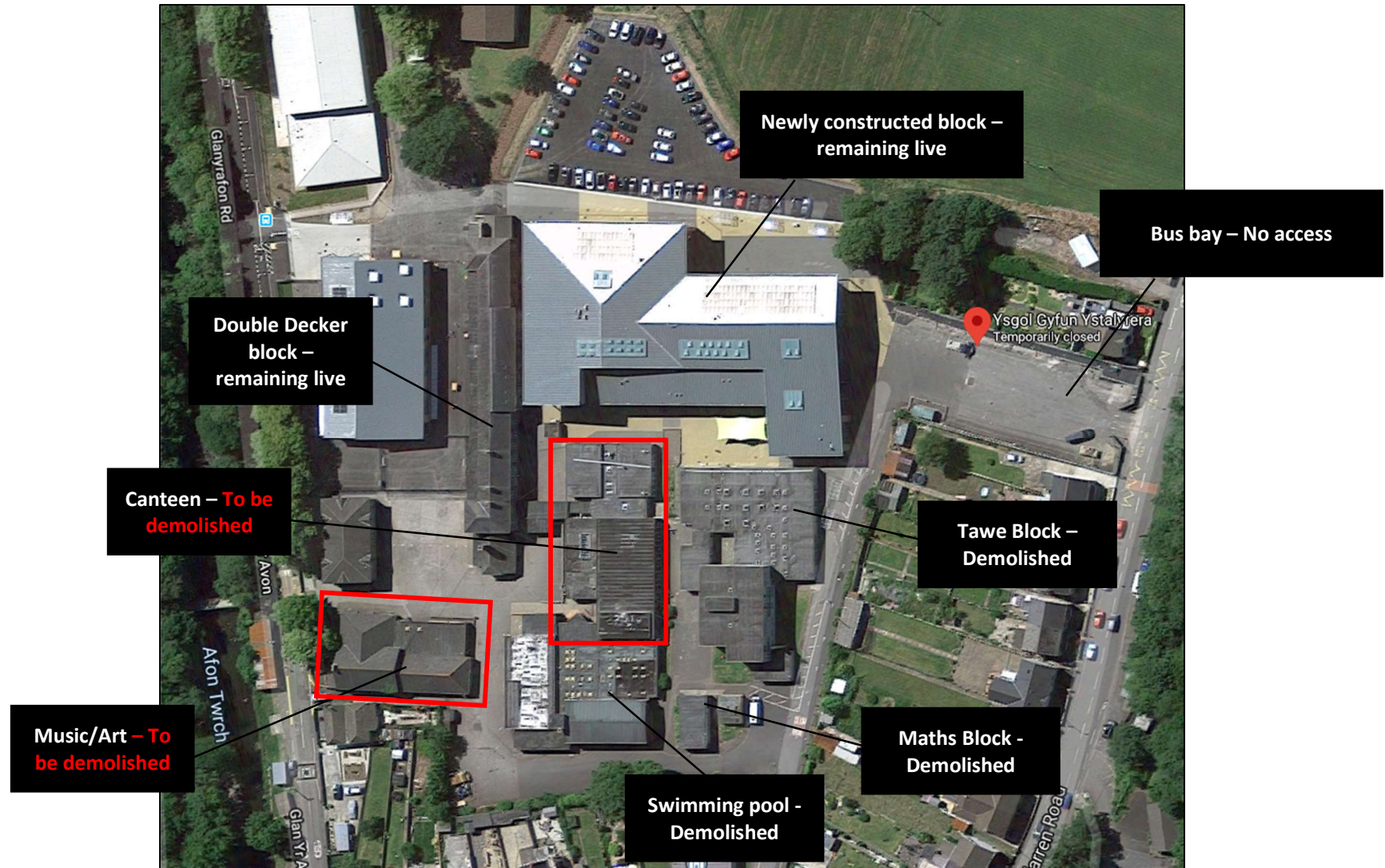
1) PREAMBLE

1.1) This document details the demolition of 2No. blocks known as the former Music and Drama block and the former Canteen ahead of re-development works.

The site is within the wider confines of Ystalyfera school and the Andrew Scott site.

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Buildings to be demolished and Live Structures

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1.2) Scope of works:

- Site set up within existing Scotts compound and heras fenced zone
- The erection of heras fencing (provided by Scotts) exclusion zones by Bond Demolition Ltd to segregate the demolition works and provide a secure perimeter.
- The soft strip of all buildings
- The removal of asbestos containing materials identified within the pre-demolition refurbishment survey
- Demolition to top of floor slab and removal of waste materials to leave a clean/safe area.
- The removal of the buildings floor slabs and footings.

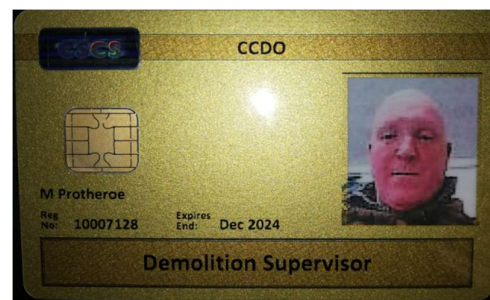
1.3) Works duration and site working hours

Duration of demolition phase	Est. 6 Weeks
Commencement Date	TBC
Site Working Hours	08:00-18:00 Monday-Friday, 08:00-13:00 Sat if required

No vehicle movements will be allowed between 08:00-09:00, 17:00-18:00 weekdays.

2) Site management

2.1) Managing Director	Robert Bailey	07973 890835
Operations Director	Peter Smith	07956 571964
Contracts Manager	Alex Murphy	07539 339565
Demolition Supervisor	Mark Protheroe 07498 293005	



2.2) Demolition Operatives	6 No. demolition operative's
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2.2.A) Plant Operatives	Nigel Meredith, Rhys Meredith
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2.3) First Aider's	Mark Protheroe
Andrew Scott Personnel	Steve Beynon – based on site and is the appointed ASL first aider

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2.4) Location of first aid point

The first aid post will be highlighted to all operatives during the site induction given by Scotts and prominently highlighted on site

All site first aiders will be trained in First Aid at Work and identified during the full site induction carried out by Scotts

COVID-19 First aid measures:

- In line with the government's current COVID-19 guidance and to maintain where possible, the 2m minimum distancing the following additional measures will be put in place for the administering of first aid to an injured person.
 - Where possible the injured person will be requested to administer first aid to themselves, if this is not possible,
 - The person administering the first aid to the injured person will be required to wear a surgical mask, gloves, and eye protection and, where possible the injured person will be required to do the same.
 - PPE used during the administering of the first aid will be disposed of in the waste bins provided.
 - If the injured person is found to have COVID-19 the above measures will be put in place however PPE used will be double bagged, stored in a secure location provided by the main contractor and the disposed of 72 hours later.

2.5) Our health and safety consultants are:

South Wales Safety Consultancy Limited

(Phil Thomas CMIOSH MIIRSM)

Tel: 02920 628763

Tel: 07770 833900

South Wales Safety have been invested executive control of our sites and have been instructed to stop works immediately should an un-safe occurrence be observed.

As part of their duties SWSC will undertake random – unannounced site audits covering the key topics of health and safety on site, these reports will be issued on site as well as being sent to head office for review at management and senior company level.

SWSC audits will be actioned in the allotted time scale, actions will then be covered by a further site audit undertaken by a senior manager.

2.6) Emergency escape/proceedures

To aid emergency escape from both the site and the wider school buildings, escape routes will be kept clean of all obstacles allowing quick exit from the works area.

Fire escape routes will be clearly shown on fire escape plan displayed in the site welfare facilities and highlighted to all during site inductions, during the site induction operatives will be informed of the location of the emergency air horn, in the event of an emergency this horn must be sounded and operatives must gather at the muster point located at the entrance gates of the site, a roll call will then be undertaken from the signing in book.

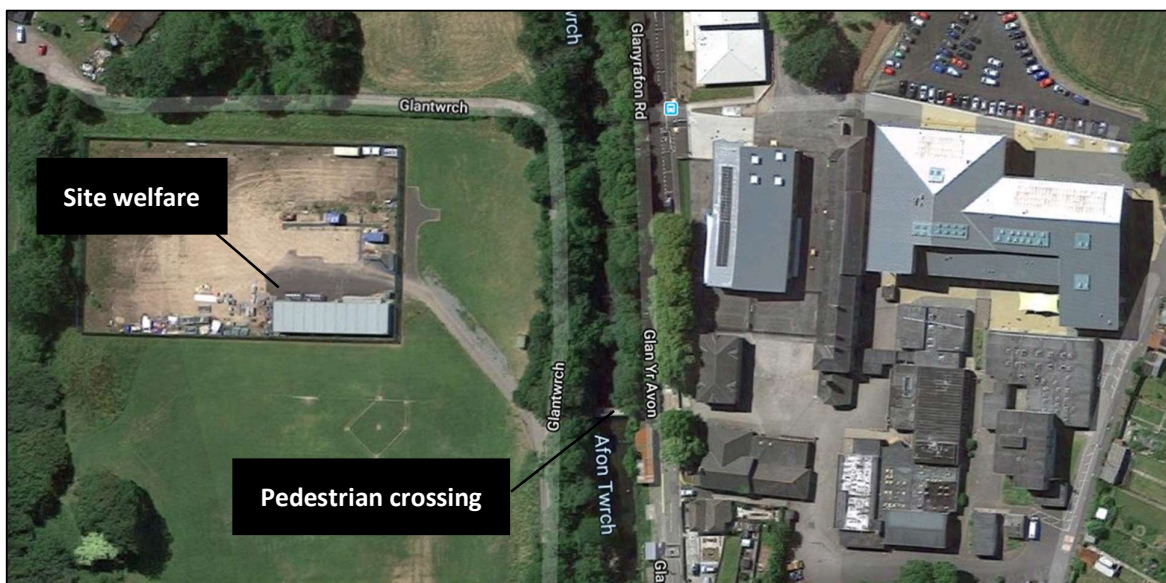
2.7) Offices /welfare

Welfare facilities will be provided by Scotts and are to include the following:

- Welfare facilities will be provided from day one of the work, consisting of toilet, washing (with hot running water) and drying facilities and space for taking meals and the provision of a means to heat food and water. All facilities will comply with the requirements of CDM 2015.
- Operatives will be instructed to use the facilities in an appropriate manner and to assist in keeping them clean and tidy, a weekly cleaning roster will be drawn up on site to encourage operatives to maintain a high standard of cleanliness of the site facilities.

BDL Policy - All operatives will be required to wash/sanitise their hands before entering the welfare facilities and clean the welfare tables before and after use and put all rubbish in the bins provided.

Operatives must also clean/sanitise their hands upon leaving the welfare.



3) Project Detail:

- All works will be carried out in line with BS 6187:2011 Code of Practice (CoP) for Full or Partial Demolition, the relevant sections of the CoP have been considered.
- The Construction Design and Management regulations (CDM 2015)
- The Health and Safety at Work etc Act 1974
- L143 - The Control of Asbestos regulations 2012
- HSG247 - The licenced contractors guide

3.1) Plant (Over course of works) 1 x 24 Ton Excavator with hydraulic attachments
 1 x 21 Ton Excavator with hydraulic attachments
 Lorries/Skips
 Hand tools
 Heras type anti-climb fencing (Double clipped and footed)
 provided and erected by Bond Demolition Limited.

3.1A) Plant/Operative interface Throughout the works the site will be operating the thumbs up protocol. Operatives are to get the attention of the plant operative before approaching the item of plant. Before operatives approach the excavator, the operator must then place the boom down, engage the dead man lever and give the thumbs up to the operative before they proceed.

3.1B) Vibrating tools – vibration and noise ratings for anticipated vibrating tools in use

Tool in use	Hand Vibration (M/S ²)	MAX USAGE PERIOD IN 8HR (480 min.) SHIFT (mins.)	NOISE OUTPUT (db at 1metre)
12-inch Stihl saw	7.6	65	107
Reciprocating saw (110v)	8	59	100

3.2) PPE - The PPE listed below will be worn by all persons:

- Hard hat to (BS EN397:2012) standard at all times
- Hearing protection in accordance with noise assessment
- High visibility vest/jacket, in a clean, good condition.
- Approved safety footwear (BS EN ISO 20345:2011) With ankle support, mid-sole protection and toe protection.
- Personal Eye protection, compliant to BS EN 166:2002.

Protective gloves, compliant to **Cut 5 standard** as per Standard EN 388 or Cut Level as per updated Standard BS EN 388:2016 **when handling glass/sharp objects or** (Reflex T or similar to EN 388), at all other times.

Site specific COVID-19 precautions:

Where it is not possible for operatives to be greater than two meters apart from each other face coverings must be worn.

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Guidance: When to use a surgical face mask, FFP1, FFP2 Face Mask or FFP3 respirator

When working on Contracts/Projects all management and workers need to be aware of the risks associated with their activities. This is a pre requisite before undertaking a risk assessment and selecting the appropriate personal protective equipment (PPE) to minimise the risk.



Surgical mask | Type IIR:

protect against low levels of dust, as well as solid and liquid aerosols

✓ When to wear?

In occupied areas but not immediate risk areas and where close contact with others less than 2 metres cannot be avoided.

- Driving where a colleague is in attendance (minimum of 2 metres social distancing cannot be applied)
- Portage, cleaning and maintenance activities within general hospital areas or general work areas including construction sites (risk of suspected or confirmed COVID-19 in other areas of a large environment)
- Dealing face to face with the general public

✗ When not to apply?

- General access and egress within work areas where the above does not apply
- When 2 metres distancing can be applied at all times
- When aerosol generating procedures are being applied on a patient with possible or confirmed COVID-19
- Areas identified as high risk and confirmed as COVID-19 zones
- Requested 'Terminal' or Deepclean processes where it is suspected or confirmed COVID-19 cases



FFP1 mask:

protect against low levels of dust, as well as solid and liquid aerosols

✓ When to wear?

In occupied areas but not immediate risk areas and where close contact with others less than 2 metres cannot be avoided.

- Driving where a colleague is in attendance (minimum of 2 metres social distancing cannot be applied)
- Portage, cleaning and maintenance activities within general hospital areas or general work areas including construction sites (risk of suspected or confirmed COVID-19 in other areas of a large environment)
- Dealing face to face with the general public

✗ When not to apply?

- General access and egress within work areas where the above does not apply
- Areas of Suspected or confirmed cases of COVID-19, i.e. assisting in a hospital ward or a detention area
- When aerosol generating procedures are being applied on a patient with possible or confirmed COVID-19
- Requested 'Terminal' or Deepclean processes where it is suspected of confirmed COVID-19 cases



FFP2 face mask:

protects against solid and liquid irritating aerosols

✓ When to wear?

In occupied areas (in areas where there is a risk of coming into contact with a potential infected person(s) or close contact with others (less than 2 metres) -i.e. general access and egress whilst entering where social or working distance of 2 meters cannot be applied:

- Portage activities within hospital wards or others areas designated as risk of suspected or confirmed COVID-19 cases or areas
- Working in holding cells and dealing face to face with nurses, doctors or areas where COVID-19 patients are or linen or bed changing
- Maintenance activities within Hospital Wards or others areas designated as risk of suspected or confirmed COVID-19 cases or areas

✗ When not to apply?

- General access and egress within work area where the above does not apply.
- Workplaces identified in Surgical and FFP1 mask guidances
- Requested 'Terminal' or Deepclean processes where it is suspected of confirmed COVID-19 cases



FFP3 face mask:

protects against solid and liquid irritating aerosols

✓ When to wear?

When carrying out aerosol or droplet / fluid generating procedures in an area with confirmed COVID-19 i.e. assisting in a hospital ward or a detention areas

- Terminal / Deep cleans of areas where it is suspected or confirmed COVID-19 cases
- Emergency works, i.e. maintenance of AHU systems linked to hospital wards where there is the risk of contamination
- Maintenance of equipment that could be contaminated

✗ When not to apply?

- Workplaces identified in Surgical, FFP1 & FFP2 mask guidances
- General access and egress within work area where the above does not apply

FFP1 refers to the least filtering of the three masks with an aerosol filtration of at least 80% and leakage to the inside of maximum 22%. This mask is mainly used as a dust mask (home renovations and various types of work).

FFP2 masks have a minimum of 94% filtration percentage and maximum 8% leakage to the inside. They are mainly used in construction, agriculture, and by healthcare professionals against influenza viruses. They are currently used for protection against the coronavirus.

FFP3 masks are the most filtering mask of the FFPs. With a minimum filtration percentage of 99% and maximum 2% leakage to the inside, they protect against very fine particles such as asbestos.



3.3) Services

All services will be cut off or contained prior to works commencing, certificates of disconnection will be issued to Bond Demolition Limited and held on site for inspection.

Any services that must remain live during works will be prominently marked on site and identified to operatives during a toolbox talk.

All services will be identified on a site plan located within the welfare facilities, this will include drainage runs, water and electrical service details, throughout the works a 'treat as live' policy will be in force where unidentified services must be treated as live until proven otherwise.

Hold Point	Have you checked to make sure all services have been cut off and contained – or marked if to remain live?	Sign:
	To be signed by supervisor	Date:

3.4) Site Security and Fencing

Heras type anti climb fencing has been installed by Scotts to segregate the buildings to be demolished from the wider Ystalyfera site with further fencing being supplied by Bond Demolition Limited where necessary to provide a demolition exclusion zone - the demolition exclusion zone will be formed using Heras type anti climb fencing which will be double clipped and footed.

3.4.1) Safety Signage

The Demolition site will be signed "Warning Keep Out" with key information including, emergency telephone numbers (Site supervisor and Emergency Contact), mandatory warning signs key information.

BOND DEMOLITION

Tel:- 029 2088 8788
www.bonddemolition.co.uk

All drivers & visitors please report to Site Managers Office

Protective Equipment must be worn by all personnel on this site





Heavy plant and machinery operate on this site

 Pedestrians prohibited

 Children MUST NOT play on this site

Danger Demolition Site

No unauthorised access beyond this point

First Aid First aid equipment is kept in the Site Managers Office

We apologise for any inconvenience caused in conjunction with these demolition works

BOND DEMOLITION

RHYBUDD CADWCH ALLAN

WARNING KEEP OUT



Don't trespass
on machinery
operating in this
project area



Head must be covered
at all times in this
area



Wear safety shoes
at all times in this
area



Wear high visibility
clothing at all times
in this area

www.bonddemolition.co.uk

0290 2088 8788

BOND DEMOLITION

Site rules

The following set of rules are in place for your own safety as well as the others around you. All site personnel and visitors must ensure they comply.

-  Hard hats must be worn at all times
-  Safety shoes to be worn at all times
-  Hi visibility vests must be worn
-  No radios are permitted on site
-  No smoking (except in designated areas)
-  No Mobile Phones allowed on site
-  All site personnel to be safety inducted prior to starting on site
-  All visitors must be accompanied unless safety inducted
-  Toilets and canteen to be left in the condition you find them in
- For details on evacuation procedure and location muster point please refer to site plan

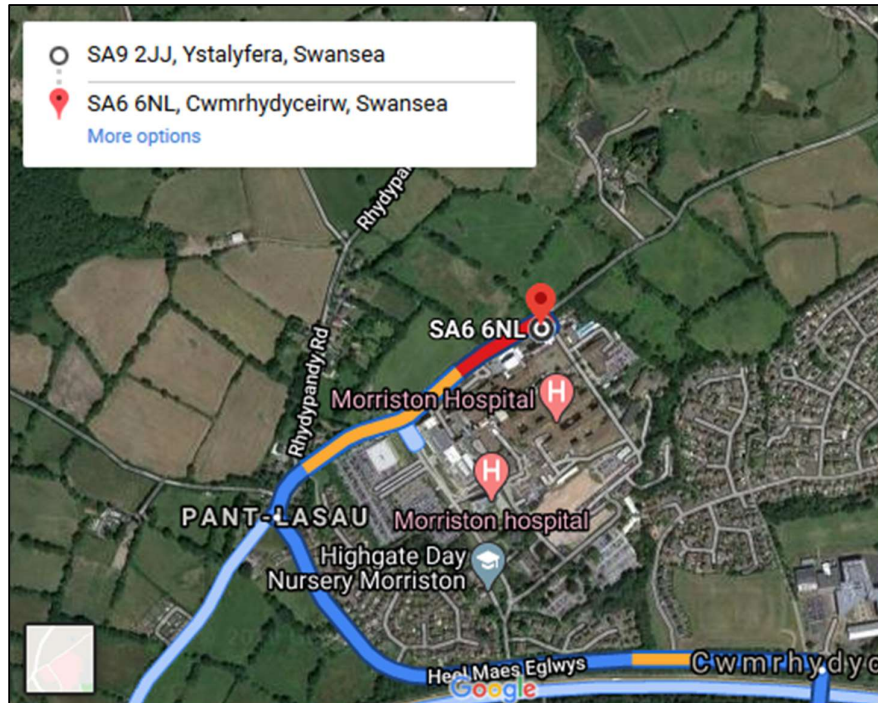
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3.5) Location of nearest A&E:

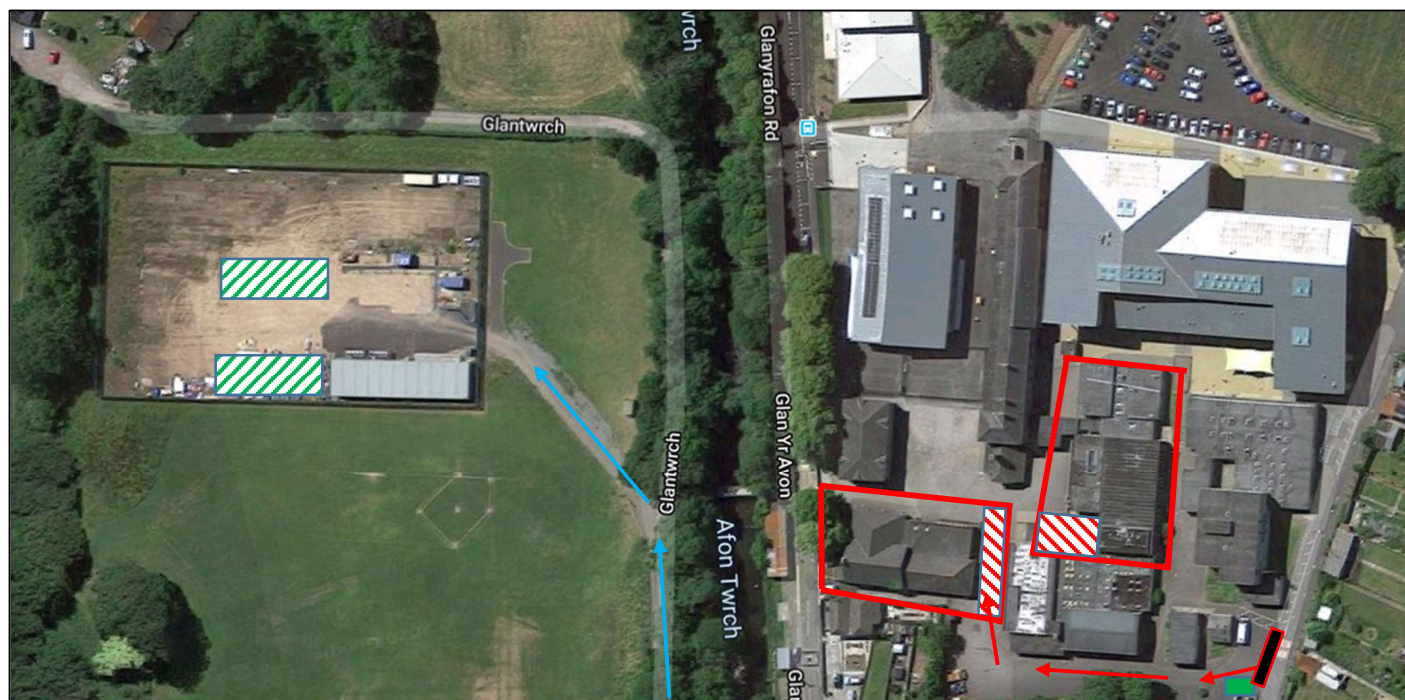
Morrison Hospital, Heol Maes Eglwys, Morrison, Swansea, SA6 6NL

Tel: 01792 702222



	Site Entrance's		Muster Point		Site Parking
	Heras fencing	 	Direction of transport		Loading areas (Anticipated)

3.4.2) Site layout Plan:



<u>Hold Point</u>	Prior to any deliveries being made to site, the supervisor must check the Scott traffic management plan for suitable routes	Sign:
		Date:

4) Site constraints and monitoring

4.1) Asbestos

An asbestos survey has been carried out for the structure and has been undertaken by Enquin Environmental concluding in survey number:

Job No J026488 Issue 2 (June 2020)

The asbestos survey has identified both licenced and non-licensed asbestos materials in the form of vinyl floor tiles, asbestos cement, asbestos texture coating, asbestos insulation board and insulation board debris.

All asbestos will be removed by our in-house ARCA trained management and removal team, Bond Demolition Limited carries a three-year licence to remove all grades of asbestos material, we also have a full waste carriers licence enabling removed asbestos to be transported in house.

Asbestos works will be subject to regular site audits by our management team along with an un-announced external audit carried out by ARCA. All operatives involved in the project will be trained to asbestos awareness as a minimum and will be instructed during a toolbox talk signed by all.

All asbestos works will be covered by separate method statements issued prior to works commencing and will be phased along with the demolition phase plan.

The Site Supervisor will be vigilant during the demolition phase for the identification of possible unidentified ACM's in the matrix of the structure.

Any suspected ACM's are to be sampled and tested by an accredited analyst with results notified to the Principal Designer. No (actual) demolition work will commence (re-commence) until all asbestos has been removed from the structure.

Self-certification:

Non-licensed asbestos containing materials will be removed and self-certified by Bond Demolition Ltd, a copy of which will be issued to the client and retained for our records.

4.1.2) Hidden Asbestos

All operatives will be trained in asbestos awareness and will receive a pre-start toolbox talk on the identification of asbestos and what to do if unknown asbestos is disturbed.

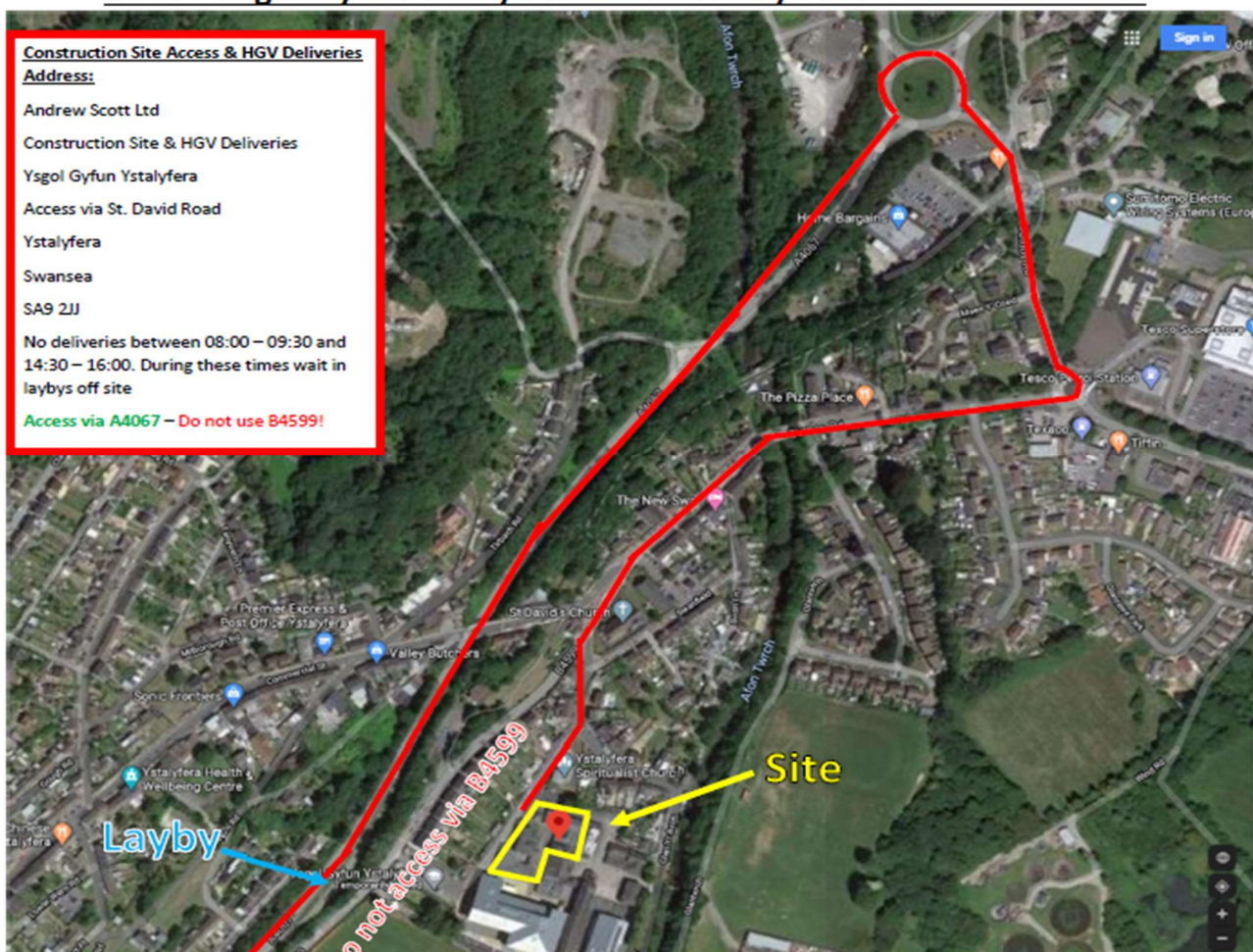
In the event of asbestos being uncovered operatives will isolate the works area and contact the demolition supervisor immediately, the Principal Contractor will also be contacted

4.1.3) Means of Access

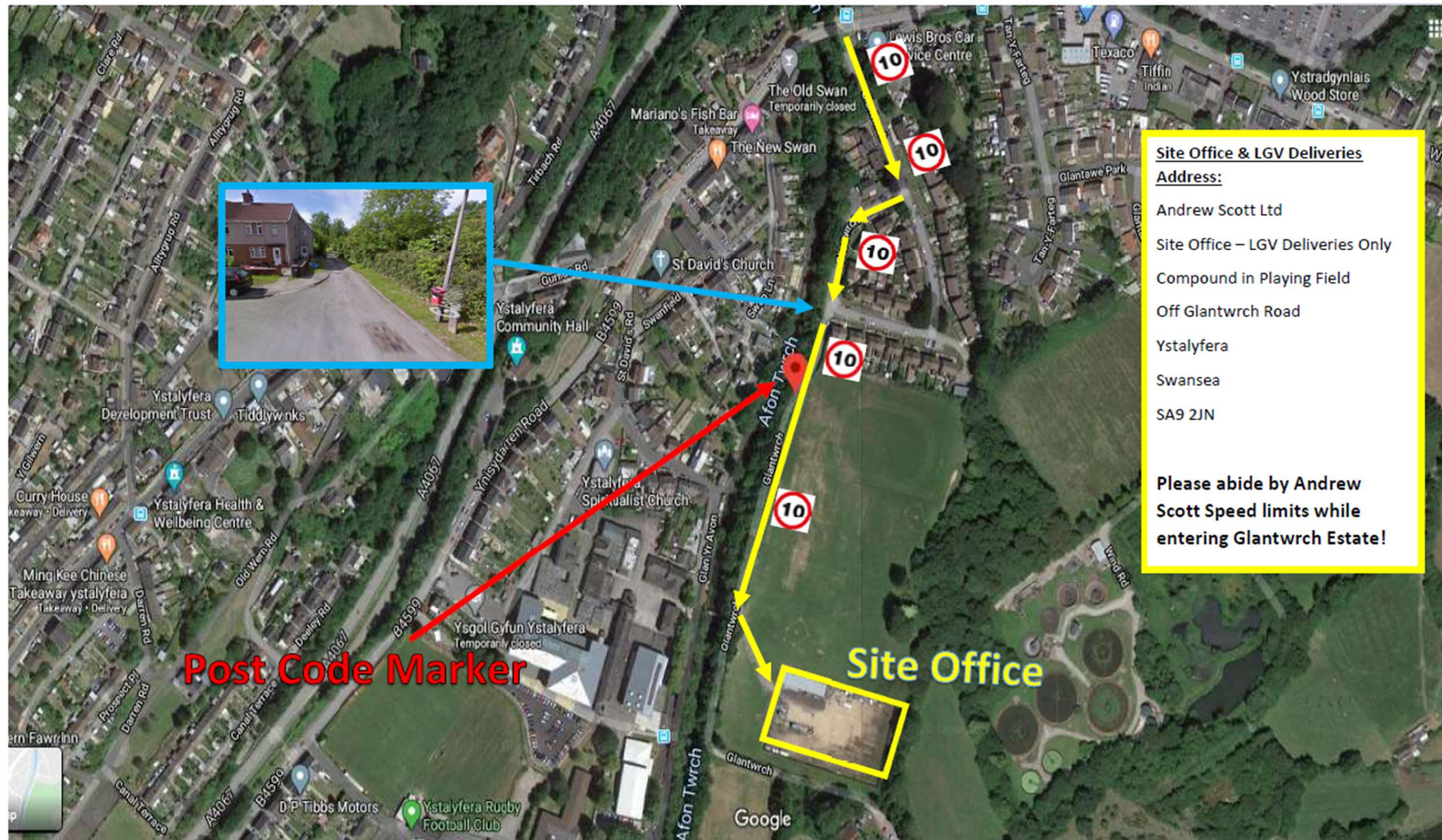
- Operative vehicles will access the site welfare compound via – Glantwrch Lane and through the weldmesh gates
- Supervisors vehicle and HGV deliveries will access the site via St David's Road and into the heras fencing site access
- No vehicles will be permitted to wait on the access route expect for the immediate opening of the site gate.
- To minimise disruption to the surrounding residential properties, we will use outside of peak times for skip lorry deliveries and ensure that large lorry movements/plant deliveries etc will be made via the all loading and unloading will take place within the site boundary.
- No vehicles will be allowed to reverse into or out of the site without the express permission of the site supervisor and under the attendance of a vehicle banksman.
- All loading and un-loading will be undertaken within the site boundary.

For emergency purposes and for the storage of equipment, the supervisors van will be permitted to park within/adjacent to the demolition exclusion zone.

T442 – Ysgol Gyfun Ystalyfera Site Delivery Plan – HGV Deliveries



T442 – Ysgol Gyfun Ystalyfera Site Delivery Plan – LGV Deliveries only!



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4.1.4) Storage of Plant/Materials

Skips will be located adjacent to the structure being demolished allowing safe loading of the waste materials, waste will be segregated into timber, general waste items, scrap and hardcore.

All attachments and plant will be stored within a designated Heras fenced zone when not in use.

At the end of each shift, plant will be parked in a prominent position close to the site entrance to reduce the risk of them being targeted.

4.1.5) Removal of materials from site

Waste will be processed according to its classification as scrap metal, general waste and timber, materials will be loaded into large skips for removal from site to a licenced waste facility

All loads will be accompanied by a waste consignment/duty of care note that will be retained and issued to the client at the end of each week.

Dust Control

To reduce the risk of airborne dust during demolition works a water spray will be directed at the works area.

Where necessary a jet wash bowser or fan driven dust suppression system will be utilised.

All loads will be sheeted leaving site to minimise the spread of demolition material from haulage.

Surface water run off

Surface water runoff will be managed by Bond Demolition Limited and mitigated as far as possible by the use of jet wash/water mist cannons rather than a constant water jet.

4.1.6) Interface with others

Loading and unloading material will take place inside the fenced site compound established by Andrew Scott and Bond Demolition Limited.

The site is accessed via a residential area with some routes becoming very narrow and unsuitable for HGV movements, the site staff must therefore be mindful that all areas surrounding the site are busy routes, this along with the Andrew Scott Limited traffic management plan must be considered when deliveries are planned.

Due to the demolition works being in close proximity to main access into the school, banksman will be in place when works are in close proximity to the main entrance/interface between buildings to stop works whilst personnel are accessing and egressing the school.

4.1.8) Air monitoring, quality and noise:

Noise and Vibration

Noise levels will be controlled with regard to active, relevant legislation including the control of pollution Act 1974 and the Environmental Protection Act 1990, to the Environmental Health Officer's (EHO) satisfaction.

Every attempt practicable will be made during the course of this contract to reduce the impact that our demolition noise and vibration has on the surrounding environment. The measures that will be taken will be within the guidance of the BSI Code Of Practice for Noise and Vibration Control on Construction and open Sites (BS 5228:2009) and will include the following:

Receptors	Risks
Immediate residential properties Pedestrians accessing surrounding areas Operatives Visitors to site Andrew Scott operatives	Complaints from neighbours Noise induced hearing loss Vibration white finger HAV – Hand Arm Vibration

- Noise will be controlled by using modern machinery, maintained in good condition and where practicable fitted with sound deadening devices.
- Where possible the use of handheld hydraulic breakers will be minimised to avoid excessive hand arm vibration exposure
- Should any work be necessary which may involve exposure by operatives to levels of vibration above the daily exposure limit or action values (ELV or EAV), a separate and specific assessment will be carried out, records will be kept by the site supervisor and maintained on site throughout the works.
- Our Site Manager will monitor all work involving exposure to vibration.

Exposure is most likely to occur when using the following items:

- Hydraulic Breaker – noise produced normally in excess of 107db.
- Abrasive Wheel – noise produced normally in the region of 107dB.
- Hand-held breakers – noise produced normally in excess of 100db

Throughout the contract the site manager will monitor noise generating activities to ensure that noise levels are kept within the control limits, the success of this will be assessed on whether complaints regarding noise from workers / neighbours are received, all monitoring activities will be recorded within the site diary and shall be made available for inspection on request.

Should activities be undertaken that risk noise being generated in excess of 85db, breaching the following two types of hearing protection will be used when noise levels are produced:

- (i) Moulded Ear Plug
Expanding Foam insert
SNR Value 35
- (ii) Invincible “J Muff” Blue
“Ear” Defenders with head band, which can be adjusted to be worn whilst the user is wearing head protection (Safety Helmet) - SNR Value 24

A-weighted noise level (dB)	Select a protector with an SNR of
85-90	20 or less
90-95	20-30
95-100	25-35
100-105	30 or more

When breakers are being used, the site will be designated as a “Hearing Protection Zone” and appropriate signage and controls will be implemented. A hazard zone will also be implemented in line with Bouygues Minimum Standards.

We will minimise noisy work activities wherever possible and use the latest anti – vibration equipment.

i. Environmental noise monitoring:

- ii. Background noise monitoring will be undertaken prior to the commencement of the demolition works. This will allow for comparisons to be made between the noise generated by the demolition activity in comparison to the existing noise levels.
- iii. The predicted noise levels are considered to be significant when they are:
 - (1) 5dB above the background receptor; and
 - (2) 65dB (daytime threshold)
- iv. Where the works are considered to have a significant effect, mitigation will be required.
- v. Monitoring will be undertaken at the boundary of the site at intervals through the works by the Bond Demolition Limited site supervisor with results issued to the client weekly.
- vi. In the event of noise exceedances at the site boundary, or in the event of noise complaints, additional monitoring close to receptors may be undertaken. If exceedances are determined at the receptor location that can be attributed to the demolition works, alternative methodologies will be reviewed for the element of work.

b. Mitigation measures

Best practicable means will be employed to ensure that the level of noise generated on site is as low as reasonably practicable. In order to mitigate noise during the demolition works the following steps will be followed:

Mechanical demolition:

- Shearing of steel works will be utilised wherever possible as well as the use of a concrete slab pulveriser rather than hydraulic hammer.

Breaking of material:

- Mechanical breaking will not commence on site until 08:00

Standing generators:

- Silenced generators will be used surrounded by proprietary noise barriers

Stationary vehicles/plant:

- Vehicles/plant will be switched off when not in use

Air Quality

Dust Emissions and resulting pollution

Receptors	Risks
Operatives Visitors to site Neighbours	Inhalation Silicosis Lung Cancer Asthma Irritation to eyes Complaints from neighbours Dermatitis

Due to the close proximity of the works to public areas, great care will be taken in regard to the control of dust.

During our works we will ensure that the following measures will be enforced in line with our demolition method statement.

Monitoring programme

On-going monitoring will be undertaken by the demolition supervisor on a regular basis for visible signs of dust emissions and deposition originating from the site to ensure the adequacy of the mitigation measures being employed.

On site daily monitoring of dust emissions will be undertaken for each demolition activity which is deemed to pose a risk, with records maintained.

The monitoring programme will record:

- Date
- Activity/Location
- Weather Conditions
- Wind Direction and Speed

Dust suppression method(s) implemented excessively windy conditions can increase the propagation of dust.

Demolition supervisor will assess if the weather conditions are appropriate for the types of activities being undertaken.

Bond Demolition Ltd, Unit 3B, Pant Glas Industrial Estate, Bedwas, Caerphilly, CF83 8DR

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Any complaints in relation to fugitive dust will be logged and appropriate action taken by site management in accordance with our company complaints procedure to ensure any further potential for complaint is minimised. Logs of any complaints will be made available to the Principal Contractor.

Mitigation Measures

- Wetting methods, will be used whilst mechanical demolition methods are being undertaken being carried out to prevent as far as practicable dust particles becoming suspended, a jet wash bowser will also be used to apply a fine mist spray over the working area.
- Disposable type 3 masks are to be worn by operatives engaged in dusty activities
- The site manager will ensure all skips leaving the site are sheeted to prevent material spread as far as practicable
- A toolbox talk will be carried out to ensure that all operatives are provided with information on the dangers associated with dust
- Material stockpiles will be reduced as far as practicable, where possible waste will be loaded out as it arises.

4.1.9) Soft strip

Prior to any works being undertaken the following must be adhered to:

- **No standing in or on the top of the skip at any time**
- **Loading of the skip by hand must be through the rear doors only**
- **Cut 5 gloves or chainmail must be worn when handling sharp objects**
- **Protective glasses/goggles must be worn at all times**
- **Working at height must be carried out from podium steps or a PASMA erected tower only**
- **Ladders/step ladders must not be used**
- **Suitable edge protection must be in place for any working at height**
- **Individual suitability, competency and training must be assessed before undertaking an activity**
- **Do not undertake any works you feel are unsafe or you do not feel suitably trained to complete**
- **Only use power tools if suitably trained to do so**
- **Ensure that you receive RAMS briefings, inductions and toolbox talks on working at height, hand/power tools, slips-trips-falls, manual handling and workplace PPE**
- **If there is an element of work that you are asked to do that you haven't been instructed to do in the pre-start briefing, please stop what you are doing and speak to your supervisor.**

Soft strip will proceed as follows:**Hardwood Softwood timber Skirting and trunking:**

Are to be prised away from wall using demolition bars, all nails will be flattened into the timber to prevent penetration/scratch injuries.

Lighting/fluorescent tubes:

Are to be removed with operatives working off regulative podiums, wearing gauntlets and full-face visor operatives will remove in reverse to assembly and are to be removed from the building and placed within designated receptacle prior to removal off site to an authorised AATF in accordance with the WEEE Regulations.

Electrical equipment: To be collected from all areas and removed off site for disposal at a licensed AATF in accordance with the WEEE Regulations

M&E: including duct work, pipe work and cabling

M&E will be removed according to its size and weight, Pipe work will be removed as follows:

Pipe work will be removed in no longer than 2 metre sections, pipe work must be cut between brackets ensuring that the element being cut is supported from the hanging brackets, when operatives are ready to remove the section it must be adequately supported, and the brackets cut in sequence.

Under no circumstances are operatives to exceed the two-meter specified length, larger sections of pipe must be cut smaller according to their weight.

If it is not possible to remove the section of pipe/M&E by hand, then it **MUST** be left for removal by excavator at a later date.

Demountable partition:

The Bond Demolition Ltd site supervisor will ensure that the partition is not supporting any element of the ceiling/plant before removal, working from the top of the partition downwards operatives will use reciprocating saws to reduce the partition into manageable sections allowing removal from the works area.

During the removal of walls/partitions operatives will be toolbox talked on the need to flatten nails that are protruding to minimise the risk of a sharp's injury.

Suspended ceilings:

Will be removed in reverse to assembly with operatives working out of regulative access podiums, operatives using anti-surf aluminium podiums will work in pairs firstly removing all fluorescent tubes from light fittings within the works area ensuring that they are removed carefully and stored in the correct container for removal and recycling.

Working from the rear of the building towards the exit door operatives will remove the ceiling tiles and light fittings from the suspended ceilings passing tiles to floor level for removal from the works area, once the tiles have been removed using wire cutters operatives will cut the steel wires fixing the ceiling grid to the ceiling lowering the grid to the floor where it can be reduced into smaller pieces for removal from the works area, any timber supporting structure will be reduced methodically using reciprocating saws and demolition bars, sections will be removed in manageable lengths ensuring that no item removed is excessive in size or weight.

Working at height – during the soft strip works it will be necessary to work at height, all working at height internally will be carried out from aluminium scaffolding towers erected by PASMA trained operatives.

COSHH – due to the buildings use as a swimming pool and gymnasium COSHH items exist within storerooms and in some cases pipe work, prior to handling any COSHH items operatives will don protective gloves and where necessary coveralls. COSHH items will be collected by a specialist carrier and removed from site under a waste consignment note. If any un-identifiable chemicals are discovered the PC will be informed for testing to be undertaken.

5) Demolition methodology

HOLD POINT	Have you received all service disconnections and completed a service identification form	Name:
		Sign:
		Date:

Demolition exclusion zones – exclusion zones will be established using heras type anti-climb fencing which will be double clipped and footed, the working area will be controlled by a banksman in visual contact with the excavator operative, exclusion zones will be established in line with BS6187 and formed using heras type fencing installed by Bond Demolition Ltd.

During the works safe access points will be established and maintained to ensure that access/egress from the site can be undertaken safely without the need to clamber over materials and be in contact with mobile plant.

A pre-demolition/refurbishment survey has been undertaken and has identified asbestos containing materials which will be removed prior to demolition however, throughout the demolition works the Site Supervisor will be vigilant for the identification of possible unidentified ACM's in the matrix of the structure.

Any suspected ACM's are to be sampled and tested by an accredited analyst with results notified to the Principal designer. No (actual) demolition work will commence (re-commence) until all asbestos has been removed from the works area.

The Demolition of the redundant school building's will be split up into three different phases demolition, floor slab/foundation removal and site clearance. The works will be carried out as follows:

Music/Drama:

Working from the location shown, the demolition excavator will work inside the demolition exclusion zone, using its grab attachment to peel away the first section of the buildings pitched, tiled roof exposing the timber structure beneath, sections will be lowered to ground level for processing and loading into waste skips for removal from site. Once the first section of roof has been removed, the excavator will use its grab attachment to remove the gable end wall of the structure, pulling materials into a stockpile to maintain a clean working area. Working inwards the excavator will continue to use its grab attachment to remove sections of the structures roof, ensuring that no element being removed is excessive in size or weight.



Tracking onto the structure's footprint, the excavator will reduce internal walls to slab level internally, stockpile materials and then pull the external walls into the buildings footprint for processing and loading away from site.

Throughout demolition works the interface between the neighbouring property and the side access lane which the music/drama block directly borders will be managed by a banksman who will be in

Bond Demolition Ltd, Unit 3B, Pant Glas Industrial Estate, Bedwas, Caerphilly, CF83 8DR

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direct visual contact with the excavator operator, able to stop demolition works should pedestrians require access.

As demolition works progress the boundary of the site formally secured by the structure will be secured using heras fencing supplied and installed by ASL.

Working will continue across the footprint of the structure until all by the slab remain.

Canteen:

The former canteen was once connected via a link corridor to the sports hall/changing room complex which has been demolished during a previous phase of works.

Working from the footprint of the former changing rooms, the excavator will use its grab attachment to peel away the first section of flat roof of the canteen exposing the top of the gable end. Materials will be lowered to ground level for processing and loading into waste skips for removal from site.

Once exposed, the grab will be used to remove the gable end wall closest to the excavator, processing materials and loading them away from site. Working inwards onto the structures concrete slab, the excavator will remove the respective amount of external wall to the roof section removed to maintain stability. Progressing inwards materials will be demolished into the footprint of the structure, processed and loaded into their respective waste skips. Works will continue in this manor until the structure has been demolished, leaving the floor slab clean for removal.



Slab and footings removal:

Prior to any exaction works being undertaken, the entire works area will be CAT scanned by the ASL site representative who will issue a permit to dig.

Following the issue of a permit to dig, the excavator will attempt to pull the floor slab of the structure from the furthest corner, using the toothed digging bucket, reducing the need to use the hydraulic hammer. Should the slab 'peel' away, the excavator will repeat this process, working across the slab to remove, stockpile and load away the materials.

Should the slab not peel away, the hydraulic hammer will be used to 'pop' the concrete slab, working in a grid formation to break the surface, allowing it to be easily removed using the toothed digging bucket.

Once the slab has been removed, the digging bucket will be used to dig down and expose the footings of the structure to allow their removal. If possible, the concrete pulveriser will be used to break out the foundations in leu of the hydraulic hammer.

Voids created from the removal of the footings will be infilled with site won material, leaving the site clean and safe for further works to be undertaken.

Appendix A – Considerate Constructors scheme membership:

Considerate Constructors registration – Bond Demolition Limited is proud to be registered with the code of practice, promoting the following:



Considerate Constructors Scheme

A not-for-profit, independent organisation founded in 1997 by the construction industry to improve its image

Code of Considerate Practice

- Considerate constructors seek to improve the image of the construction industry by striving to promote and achieve best practice under the Code.
- The Code of Considerate Practice outlines the Scheme's expectations and describes those areas that are considered fundamental for registration with the Scheme.
- The Code is in five parts and contains a series of bullet points. Each section of the Code contains an aspirational supporting statement and four bullet points which represent the basic expectations of registration with the Scheme.
- The Code of Considerate Practice applies to all registered sites, companies and suppliers regardless of size, type or location.

Care about site Appearance

Constructors should ensure sites appear professional and well managed

- Ensuring that the external appearance of sites enhances the image of the industry.
- Being organised, clean and tidy.
- Enhancing the appearance of facilities, stored materials, vehicles and plant.

Raising the image of the workforce by their appearance Respect the **Community**

Constructors should give utmost consideration to their impact on neighbours and the public

- Informing, respecting and showing courtesy to those affected by the work.
- Minimising the impact of deliveries, parking and work on the public highway.
- Contributing to and supporting the local community and economy.
- Working to create a positive and enduring impression and promoting the Code.

Protect the Environment

Constructors should protect and enhance the environment

- Identifying, managing and promoting environmental issues.
- Seeking sustainable solutions, and minimising waste, the carbon footprint and resources.
- Minimising the impact of vibration, and air, light and noise pollution.
- Protecting the ecology, the landscape, wildlife, vegetation and water courses.

Bond Demolition Ltd, Unit 3B, Pant Glas Industrial Estate, Bedwas, Caerphilly, CF83 8DR

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Secure everyone's Safety**Constructors should attain the highest levels of safety performance**

- Having systems that care for the safety of the public, visitors and the workforce.
- Minimising security risks to neighbours.
- Having initiatives for continuous safety improvement.
- Embedding attitudes and behaviours that enhance safety performance.