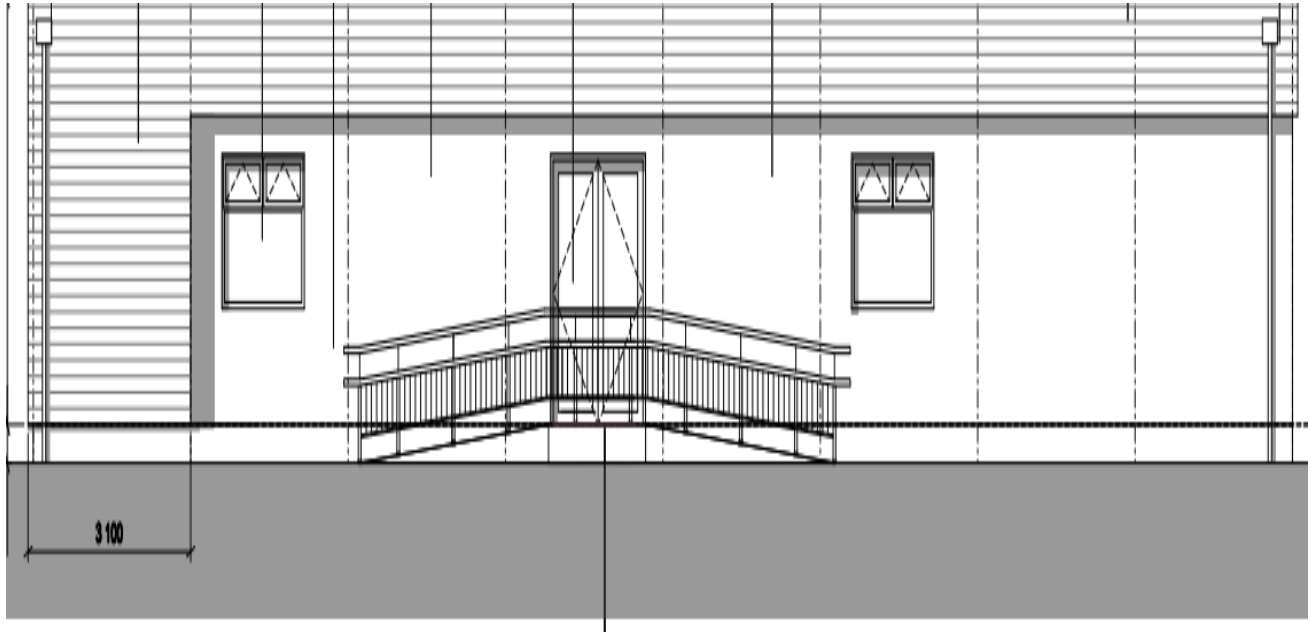


SITE:
THE DEAN TRUST ACADEMY ARDWICK



CONSTRUCTION PHASE HEALTH & SAFETY PLAN

COMMENCEMENT DATE

TBC

Revision	Detail	Prepared By	Issued To
001	First Issue	Anthony Walker Tech IOSH, SIIRSM	Lee Rice LDR Ltd

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Construction Phase Plan Appendices

LDR LTD has a robust health and safety manual, which underpins this construction phase plan and includes all the key documentation to enable the effective management of health and safety throughout the project.

The contents of the H&S Manual are as follows.

1. Accident reporting and investigation
2. COSHH
3. Site Inductions
4. RA&MS
5. Fire and emergency
6. COVID Procedures and documentation
7. Contractor Control
8. Permit to work
9. Training
10. Toolbox talks
11. PPE
12. Occupational Health
13. Statutory inspections
14. Accident reporting and investigation
15. Traffic management plan/ Material & Logistics Plan
16. Hole Management Plan
17. Waste Management Plan
18. General safety inspections
19. Temporary Works
20. Miscellaneous

The site construction phase plan and associated documentation will be established from the outset and follow the structure below.

LDR LTD

- Construction Phase Plan
- Fire risk assessment and plan (including associated record sheets)
- Site waste management plan
- Traffic management and access
- Material & Logistics Plan
- Inspections and monitoring (LDR LTD inspections only)
- Inductions (All)
- Risk assessment/method statements (LDR LTD personnel only)
- Toolbox talks (TBT done by LDR LTD for LDR LTD personnel only)
- Accident/incident reporting procedures
- HSE/EHO visits
- Training and competence evidence (LDR LTD personnel only)
- Temporary Works Register

Separate files will be established for sub-contractors, which will include the following.

- Completed competence questionnaire
- Pre let meeting minutes
- Risk assessments and method statements
- Training and Competence evidence
- General inspections
- Statutory inspections
- Permit to work
- Toolbox talks
- COSHH information

The construction phase plan is continuously reviewed and updated; any formal updates to the construction phase plan are recorded below.

[illegible]

1.0 Project Details/Description of Works:

The project is located on land which is on Stockport Road in the Ardwick area of Manchester. Access to the project is to be via Stockport Road. The project “Dean Trust Ardwick” comprises of a single storey building to create a new flexible classroom / break out space with supporting services and facilities.

- Phase 1 – Installation of drainage and foundation
- Phase 2 - Delivery and erection of modular buildings including first fix M&E
- Phase 3 – Cladding of Exterior Installation of Final Finishes Install of sliding doors / wall partitions. Forming of access ramps and balustrades

The proposed works will consist of by limited too:

- Foundations/drainage.
- Ground works
- Damp Proofing Membrane
- Modular install/Pod Erection
- Brick and Block Work
- Mechanical and engineering
- Air con installation
- Flat roof detail
- Window/Glazing
- Electrical
- Structural works
- Dry lining/Plastering
- Painting
- Flooring detail
- Furniture fit out
- Tiling
- Joinery

The above is a brief overview of the scheme proposals and is not intended to give a complete description of works, as elements of the design are still developing. LDR LTD and their sub-contractors will be expected to liaise with the design team for full complete information throughout the project and make reference to drawings, specifications and other key documents as they are provided by the design team.

1.1 Safety Aims and Objectives:

The Construction (Design and Management) Regulations 2015 (CDM) have introduced the requirement for a Construction Phase Plan to be formulated for all projects falling within their scope. The CPP has been developed based on existing CDM pre-construction information and site surveys and has been formulated to convey relevant health and safety information to those undertaking works on this project.

LDR LTD shall take all reasonable steps to ensure that the construction phase plan identifies the risks to health and safety arising from the construction work. (This includes the risks specific to the construction work concerned)

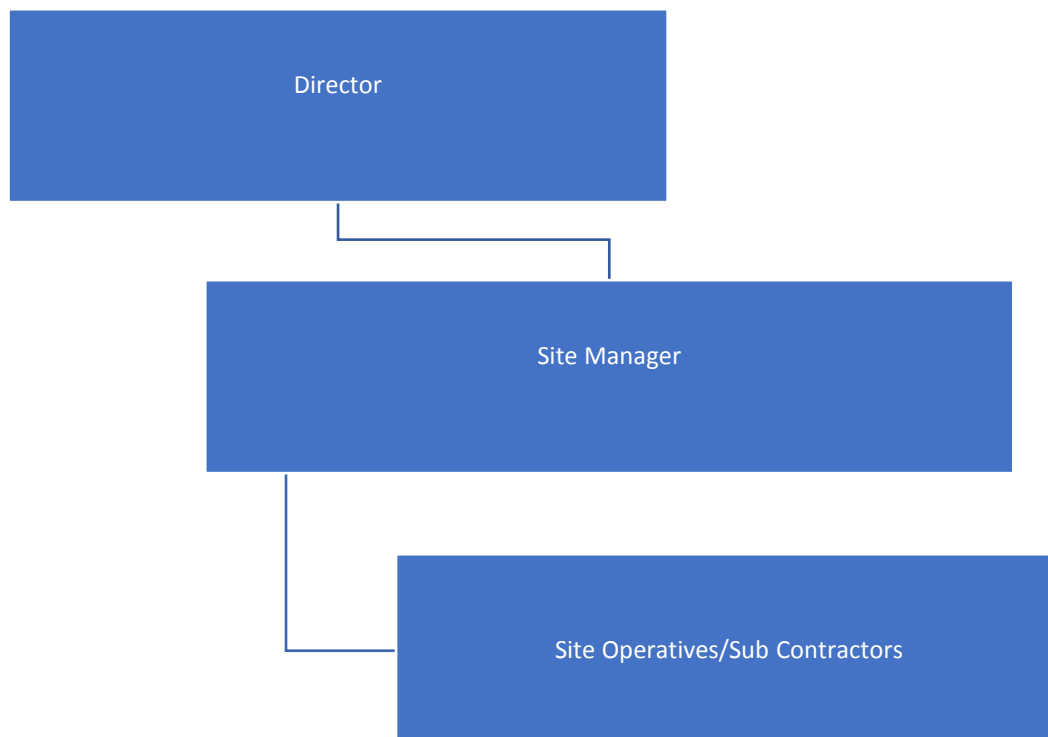
This development includes such measures as is reasonable to ensure the plan contains, until the end of the construction phase arrangements that will, so far as is reasonably practicable, ensure the health and safety of all those working on or affected by the works throughout the duration of the project.

The plan is a “living document” to be supplemented as the project develops by the introduction of supporting documents such as sub-contractor site specific method statements, risk assessments, induction procedures, site inspections, including specific inspections for plant and equipment and any further documentation relevant to the health and safety of the project.

LDR LTD understands the importance of effective safety management to the client and is fully committed to acting as a competent Principal Contractor throughout the duration of this contract. LDR LTD aims to provide a high quality, safe construction environment with minimal risks for all concerned.

It is the intention of LDR LTD that there will be no incidence of accidents or ill health for those working on or affected by this project. LDR LTD will ensure the safety at all times of its employees and any other persons on site at any time and any other persons affected by the project works, they will also ensure compliance with all statutory requirements throughout the duration of this project.

1.2 LDR LTD Organisational Chart:



1.3 Project Address:

The Dean Trust Academy Ardwick 345 Stockport Rd Manchester M13 0LF

1.4 Commencement Date:

TBC

1.5 Completion Date:

40 weeks from start date.

1.6 Client Details:

Mr A Shakos Operations Director
The Dean Trust (Ardwick)
345 Stockport Rd
Manchester
M13 0LF
andrewshakos@thedeantrust.co.uk

Client's Representative (CR) / Contract Administrator (CA):

Daccus ACM
31A High Street Frodsham
WA6 7AJ
Tel: 01928 733382 Email: nick@daccus.co.uk

1.7 Principal Designer Details:

Daccus ACM
31A High Street
Frodsham
WA6 7AJ
Tel: 01928 733382 Email: nick@daccus.co.uk

1.8 Principal Contractor Details:

LDR LTD
17 Andrew Avenue
Melling
Liverpool
L31 1BL
Liam Rice – 07775847001
liamdanielrice@gmail.com

1.9 Architects Details:

Daccus ACM
31A High Street
Frodsham WA6 7AJ
Tel: 01928 733382
Email: nick@daccus.co.uk

1.10 Structural Engineers and M&E Engineers:

Mr A James Marston & Grundy LLP Consulting Engineers Priory House
Ellesmere Avenue Marple
Stockport
Cheshire

SK6 7AN

Mobile 07498 559026

Email: andy@marstonandgrundy.com

1.11 Local Authority:

Manchester City Council

1.12 Local Health & Safety Executive:

Redgrave Court
Merton Road Bootle
Merseyside, L20 7HS

1.13 Appointed Sub-Contractor Details:

TBC

1.14 Site Contact Details:

Site Manager: Liam Rice – 07775847001

1. The Directors for LDR have overall responsibility for the Company's health and safety performance. A project team is in place to effectively manage these works, including health and safety performance, which consists of a site manager and their in house team.
2. The Directors and site manager are responsible for ensuring that the entire works are executed in a manner consistent with the terms and conditions of the contract. They will work with the client and all regulatory authorities to ensure all legal requirements as are applicable to the design and construction of the project are fully met.
3. The Site Manager shall ensure that the Client's specified requirements have been incorporated into the relevant work procedures and that site documentation is compatible with contract requirements.
4. The Site Manager is responsible for co-ordination of all matters arising to the application for permits and licences as may be required to be issued by statutory and local authorities with respect to health, safety, environmental and waste disposal matters.
5. The site manager will be responsible for ensuring key health and safety tasks will be carried out, such as.

- Inductions
- Inspections
- Reviewing pre-qualification questionnaires
- Attendance at subcontractor pre-let meetings
- Reviewing / Assessing Method Statements
- Toolbox talks
- Risk assessment/method statement approval
- First aid
- Fire and emergency
- Coordinating other contractors
- Overseeing statutory inspections, i.e. Scaffold, plant, vehicles, hoist, crane
- Managing lifting operations
- Issuing permits
- Scaffold inspections
- Plant inspections
- Other tasks proportionate to the role
- The Health and Safety Consultants will work with LDR LTD when engaged, in developing this construction phase plan and then via monthly safety inspections, will review and audit the effective implementation.
- Rawlings will provide health and safety advice to the Site Project Team to assist them with the effective management of health and safety on site

Location of First Box is in the Site Office.

Key Roles and their appointments

First Aiders: Liam Rice

Fire Marshals: Liam Rice

Temporary Works Coordinator: Liam Rice

Permit Controllers: Liam Rice

1.15 Responsibilities:

RESPONSIBILITY OF ALL PERSONNEL INCLUDING SUB-CONTRACTORS

(These are also reiterated within section 2, site rules/inductions)

All employed persons **are responsible for the following:** -

1. To take reasonable care of their health and safety.

2. To co-operate with and assist LDR LTD so far as is necessary to enable this Construction Phase Plan to be successfully implemented and to enable the duties placed upon LDR by relevant legislation to be discharged effectively.
3. To comply with site safety rules and procedures. In addition to fully comply with all agreed procedures defined in the pre-contract start up meeting and to provide safety documentation in accordance with LDR LTD requirements.
4. To correctly use the protective equipment provided and follow Site Rules.
5. To report all Health and Safety concerns to a responsible supervisor and as appropriate to the Project Manager or the Health and Safety Consultants.
6. Not to interfere with anything provided in the interests of health, safety and welfare.
7. To understand and work in accordance with agreed Method Statements / Risk Assessments

AREAS OF RESPONSIBILITY

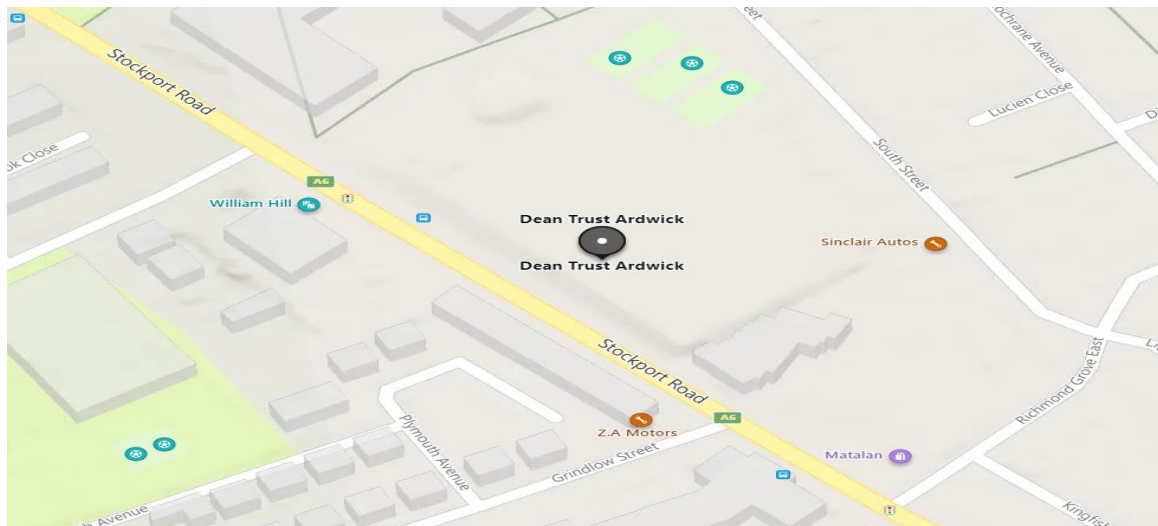
No	DESCRIPTION	RESPONSIBILITY	DELEGATED TO	FREQUENCY
1	Fire Safety Coordinator: Fire Plans, Updates, Practices, Training & Monitoring.	Directors	Site Manager	As required during development of project & monitored weekly.
2	Emergency Procedures Rescue (from height, confined space etc), Emergency Service Access.	Directors	Site Manager	Prior to project commencement and reviewed throughout.
3	First Aid Treatment, Advice & control of resources	Directors	Site Manager	At project commencement and on change of personnel
4	Accident Reporting and Investigation.	Directors	Site Manager	Initial reporting & investigation of any incident and compliance with Incident Action Matrix
5	Induction	Directors	Site Manager	All personnel on initial start on site and re-inducted as work develops.
6	Statutory Inspections and Records:	Directors	Site Manager/Contractors	All inspections will be done in conjunction with the specialist

				sub-contractor /engineer
7	Working Platforms	Directors	Site manager & Sub Contractor	Weekly/after adaptation following event likely to affect stability.
8	Lifting Equipment	Directors	Site manager & Sub Contractor	Weekly / 6 or 12 monthly as required by statute.
9	Work Equipment	Directors	Site manager & Sub Contractor	Weekly
10	Electrical Equipment	Directors	Site manager & Sub Contractor	All work equipment is portable appliance tested
	110V Portable and handheld tools, extension leads, site lighting, moveable wiring systems and associated switchgear			Monthly temporary supply 12-month internal office equipment 3-month portable appliances
	110V Portable and handheld tools, extension leads and portable floodlighting (110 V mains supply through 24 MA RCD)			Combined inspection and test before 1 st use on site and then 3 monthly Combined inspection and test before 1 st use on site and then 3 monthly
	RCD's portable			Combined inspection and test before 1 st use on site and then monthly
	RCD's fixed			Combined inspection and test before 1 st use on site and then monthly
11	Permits to Work	Directors	Site Managers/Contractors	As Required
12	COSHH Co-ordinator	Directors	Site Managers/Contractors	As required - for all substances used on site with hazards to health.

13	Noise and Vibration Assessment, Control & Monitoring	Directors	Site Managers/Sub Contractors	As required - for all hand tools or processes used on site with hazard to operatives
14	Health and Safety Monitoring Inspections	Directors	Site Managers/Sub Contractors	One inspection of all site aspects required every week. Regular inspection from visiting staff every 2-4 weeks
15	Welfare facilities	Directors	Site Managers	Daily visual inspections
16	Health and Safety File Passage of Information to the Principal Designer	Directors Principal Designer	Site Managers/ Design team Contractors	As soon as practicable after completion of package by contractor

1.16 Site Access Details, including Traffic Management:

The Dean Trust Ardwick site is located on Stockport Road. It is in the heart of the local area of this part of Manchester which is a main thorough fair in the Ardwick area.



The access to the project will be via South Street/Stockport Road, the principal contractor will utilise the existing entrance and grounds for site set up, retaining space within the grounds for the site office and welfare along with a storage area.

Pedestrian entrance to site will be controlled via doors which are via South Street/Stockport Road and will be controlled by a signing in and out process. Vehicle access to site will be segregated at all times, this will be limited and communication will take place about delivery stopping on South Street/

Stockport Road or onto the kerb into the site compound (this will be controlled by a trained banksman).

Due to the area being heavily populated and used by the general public, vehicle control will be vital and will be managed. Vehicles will be stopped brought into South Street/Stockport Road by the banksman, they will then either be unloaded from that area or be reversed into the site where they will be lined with the vehicle entrance escorted into site. The vehicle entrance will be kept secured and manned at all times. Once on site the vehicles will then be situated into the unloading and loading zones.

When transferring the load from the vehicle onto site, Slinger/Banksman will be used, and the load will be transferred either direct to the works area or stored appropriately. All staff using Mechanical equipment i.e., FLT and Lorry Loaders will all have relevant training and plant certificates.

A full traffic management plan will be created to outline these arrangements. As part of the principal contractors logistic system all deliveries will be booked in 48 hours in advance and all deliveries will be coordinated. Materials will be distributed around the site utilising manual handling trollies. This will assist in distributing materials to various points around the internal building.

Liaison has already occurred with the adjacent business owners and this will continue throughout the project. LDR LTD will arrange deliveries and waste removal in a coordinated manner so there is no unnecessary build-up of site vehicles. A trained vehicle banksman will control all site traffic.

During the waste removal there will be a need for multiple vehicle access and site access will be coordinated to minimise any impact on adjacent business premises. Vehicle access to site will be controlled via production of a daily schedule with contractors booking spots through LDR LTD site team.

No vehicles will be allowed to wait / queue in Stockport Road to prevent disruption to local businesses and traffic flow. Any vehicles arriving outside of their allocated time will be turned away from site to prevent queueing and disruption to existing businesses.

All deliveries to site will be treated independently in terms of establishing the required methods for unloading and storage, all loads where necessary will be unloaded by mechanical means. Safe unloading systems e.g. Bean Bags / Alsipercha system will be utilised for offloading purposes.

The unloading of any vehicles will be done in full conjunction with the relevant sub-contractor where appropriate. A separate risk assessment and method statement for unloading and storage of work materials/equipment, including undertaking crane operations will be produced.

Emergency access to and from site will be always maintained. Emergency services will be notified of the access points before works commence on site. A trained and competent traffic marshal will permanently be located on site and will ensure that safe access routes are always maintained for emergency services. The cleanliness of the site entrance/exit areas and road/pavement areas will be always monitored and maintained by the site team during the construction period.

Existing vehicular and pedestrian access routes will be maintained. Any restriction in these routes is to be agreed with local authority, approval to be obtained in advance. Adjacent residential occupants and commercial business owners will be contacted and informed of the works taking place and regular contact will be maintained during the construction process.

NB: Careful consideration will be given to liaise with the school on a regular basis with regards to activities and deliveries.

1.17 Site Security Details:

The site is naturally secured on all sides by hoarding being put in place which will be at least 2.4m high. Doors/gates will remain secured or manned throughout site hours, during the night the site/building will be locked.

Construction site safety signage will also be placed advising of works ongoing and at main points of entrance. At the end of each working shift the site manager and his team will ensure the site will be made safe and secure. All persons entering the site will be required to sign in and out of site. The delivery gate to the compound will be kept secured or when not secure manned.

The site will be left safe and secure at the end of each shift and at any time the site is left unattended by LDR LTD. At the end of each working day any scaffolding, ladders, temporary structures etc, will be made secure to minimise the risk of unauthorised access and prevent injury to unauthorised persons accessing the site.

All points of access where site and general public may come into contact will be sealed and demarcation (physical false structures put in place) put in place to secure and stop unauthorised persons. Weekly checks on the perimeter will be carried out by site team to maintain integrity / security.

Hours of Operation

Monday to Friday 07.30 am to 5.30 pm

Saturday 8am to 1pm

Sunday no working unless confirmed with site management.

1.18 Provision for Site Welfare Facilities:

Site welfare facilities appropriate to the works being carried out and in compliance with CDM will be made available on site. These will be set up during the assessment phase, these facilities will include toilets, canteen, wash hand basins, drying facilities and a place for people to rest and to eat meals with adequate supply of drinking water. There will be the necessary cleaning agents and first aid facilities available on site with appropriate members of the LDR LTD Site Team. Welfare facilities will be cleaned and maintained on a daily basis to maintain required standards plus to comply with COVID.

Welfare facilities will be cleaned and maintained on a daily basis, however due to COVID-19 this will be stepped up and a further hourly schedule will be developed and this will be reflected on the schedule in each welfare facility. Cleaning will include the canteen, offices, changing rooms, toilets and fixtures and fittings. Between this LDR LTD also have their own labourers cleans these areas to ensure that hygiene standards are maintained, and the risk of the virus is reduced.

Other measures put in place are, sanitiser has been made available to allow contractors to clean surfaces and equipment (kettles, microwaves etc) before using them. Regular cleaning of the access and egress points and sanitiser on both sides, the canteen and the changing/drying room have been assessed to ensure numbers are adequate for the number of contractors on site. There will be suitable and enough waste bins available around the welfare facilities to cope with any contaminated waste such as paper towels, sanitise wipes, clothes and others.

Signage will be displayed in the relevant place to remind all people on site to wash their hands and keep all surfaces clean. This signage will also give further information the arrangements in place and awareness on the COVID-19. LDR LTD will ensure facilities are compliant and the below schedule will be adhered to.

Welfare Accommodation			
Appropriate number and size for the number of people expected to be working on the site to provide the following facilities:			
Toilets and Washing- facilities to be ventilated and adequately lit and sized as follows:			
Number of Men	No. WC's	No. Urinals	
1 to 15	1	1	
16 to 30	2	1	
31 to 45	2	2	
46 to 60	3	2	
61 to 75	3	3	
76 to 90	4	3	
91 to 100	4	4	
An additional WC and urinal is required for every 50 men above 100			
A wash station/ basin for every WC. (Wash stations/basins must be a min. depth of 350mm and wide enough to wash hands and arms.)			
Separate facilities for female workers / visitors			
A supply of clean hot and cold running water. (Max. temperature of hot water = 43°C and set. Where it can be adjusted higher a warning notice must be displayed)			
Paper towels dispensers (or other means for drying) – male and female			
A suitable receptacle for used towels – male and female			
Dispensers (fixed to the wall) for:			
1.	Hand wash soap – male and female		
2.	Barrier Cream – male and female		
3.	Hand restore – male and female		
Facilities for Changing Clothes			
Changing facilities (separate from eating areas), ventilated and adequately lit			
A means of drying wet or damp clothes			
Hooks for hanging clothes/ Lockers for storage of clothes			

Facilities for Rest	
Room or rooms with:	
Provision for persons to heat food	
The means for boiling water for drinks	
Sufficient benches and tables for workers to sit and eat meals comfortably. (Where there is one rest room only, it shall be designated as non-smoking)	
Bins with appropriate lids for waste food / packaging	
Canteen	
An adequate supply of wholesome drinking water. (Where this is not in fountain form, adequate drinking vessels must be provided.)	
Any supply of water that is not suitable for drinking will be marked by an appropriate sign	
Cleaning of Facilities	
Provision for daily cleaning of all welfare facilities	

1.19 Existing Structures, Land Conditions and Materials:

There are no structures currently on site, the site is of made ground as identified in AG Geo-Consultants Ltd **Phase 2 Geo-Environmental Site Assessment Report ref:** Contract No./Report Type: 22-012/P2 25/04/22, further information on the existing surveys can be found in section 1.21

1.20 Adjacent Land Use:

The project is surrounded by existing school building and the main public road to the front (Stockport Road), to the rear housing estate and commercial properties along Stockport Road. There is a constant flow of traffic and pedestrian activity throughout the day.

Constant monitoring of site activities and pedestrian interfaces will need to be undertaken by the LDR LTD site team and sub-contractors. With all works being planned and monitored in their execution to minimise possible public interface and any potential disruption to neighbouring business premises. The remainder of the surrounding area is primarily made up of commercial business and residential properties all of which will have to be taken into consideration when organising and coordinating deliveries to site. Weekly liaison with existing businesses will take place to minimise any impact on their operations during the course of the construction works. This will be especially important when organising and arranging vehicles that enter Stockport Road which heavily a residential area.

LDR LTD has taken account of the neighbouring land uses during the pre-planning stage of this project and will continue to do so throughout the works. It is the intention of LDR LTD to ensure that minimum disruption is caused to those within the immediate vicinity of the site.

NB: Careful consideration will be given to liaise with the school on a regular basis with regards to activities and deliveries.

1.21 Restrictions and Relevant Information from the Pre-construction information:

At this point in time, the pre-construction information provided primarily consists of:

At this stage and at the development of the construction phase plan utilities information copies of existing utilities plans are present in the O&M manual/Health and safety file which the client will obtain.

Asbestos

AG Geo-Consultants Ltd **Phase 2 Geo-Environmental Site Assessment Report** ref: Contract No./Report Type: 22-012/P2 25/04/22 **identified the following:**

AG Geo-consultant stated the following:

“Our lab testing and site logging found no asbestos.”

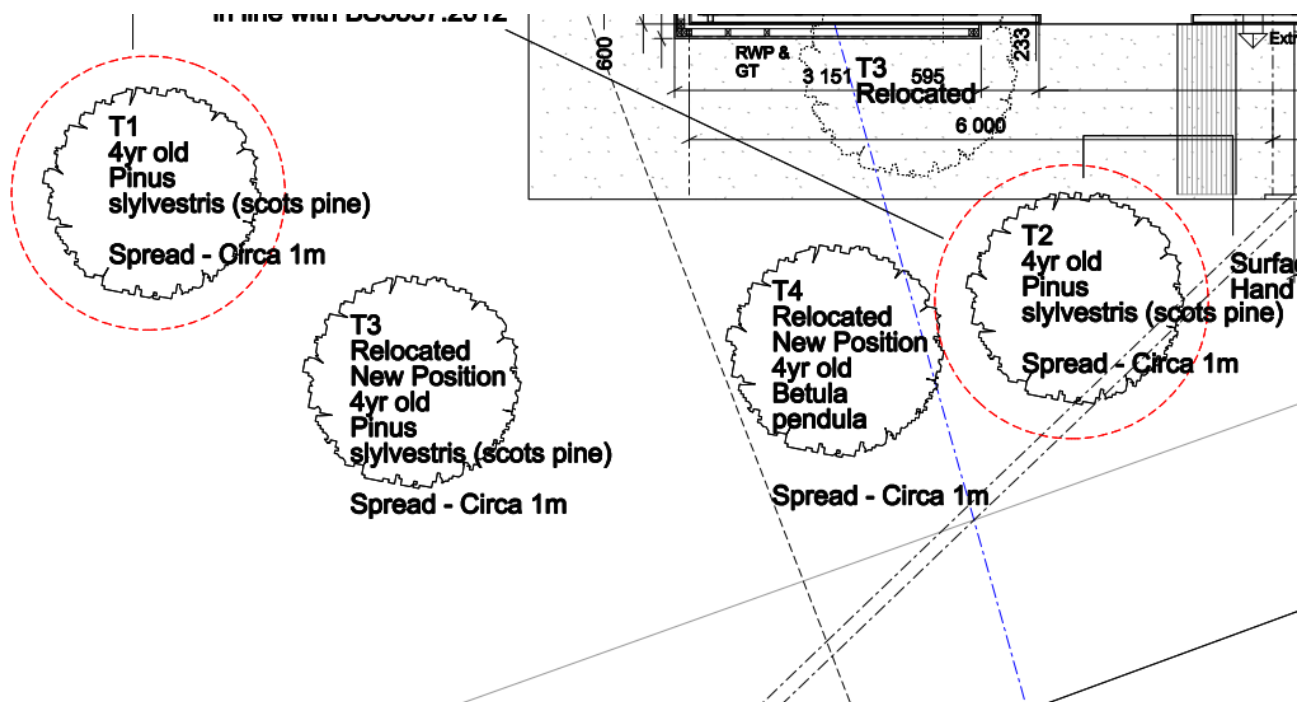
Asbestos Content to Soils None has been found in the classroom development area to date. If any were found during redevelopment, then the following should be noted. Since asbestos cement fragments contain greater than 0.1 % asbestos by weight, then any waste consignment of soil that contains any obvious asbestos cement fragments, will automatically class as hazardous waste (hence the recommendation to litter picks any fragments observed).

In terms of loose asbestos fibres in the soil matrix, if concentrations are all below 0.1% by weight, then any such soil would be classed as non-hazardous waste (if it contains no obvious asbestos cement fragments). Any litter picked asbestos cement fragments disposed of separately from the man-made ground would be classed individually as Hazardous Waste. The man-made ground that contains asbestos/ACM would be classed as a mixed waste (hazardous or non-hazardous, as discussed above) and the waste code would be 17-06-05.

All operatives will be asbestos awareness trained, if asbestos is discovered during the excavation works then works will cease and sampling will be undertaken. LDR will then contact a license asbestos remover to under the removal works.

Trees/Plants:

There has been confirmation of the following tree orders, please see below. Two are to be relocated as per the planning conditions and recommendations giving. The other two will have protection in place along with signage and this will be communicated during the on-site induction.



Service Information

The service information provided during the creation of this construction phase plan was limited, the only reference was as follows:

AG Geo-Consultants Ltd - Phase 2 Geo-Environmental Site Assessment Report ref: Contract No./Report Type: 22-012/P2 25/04/22 completed on April 2022 identified the following:

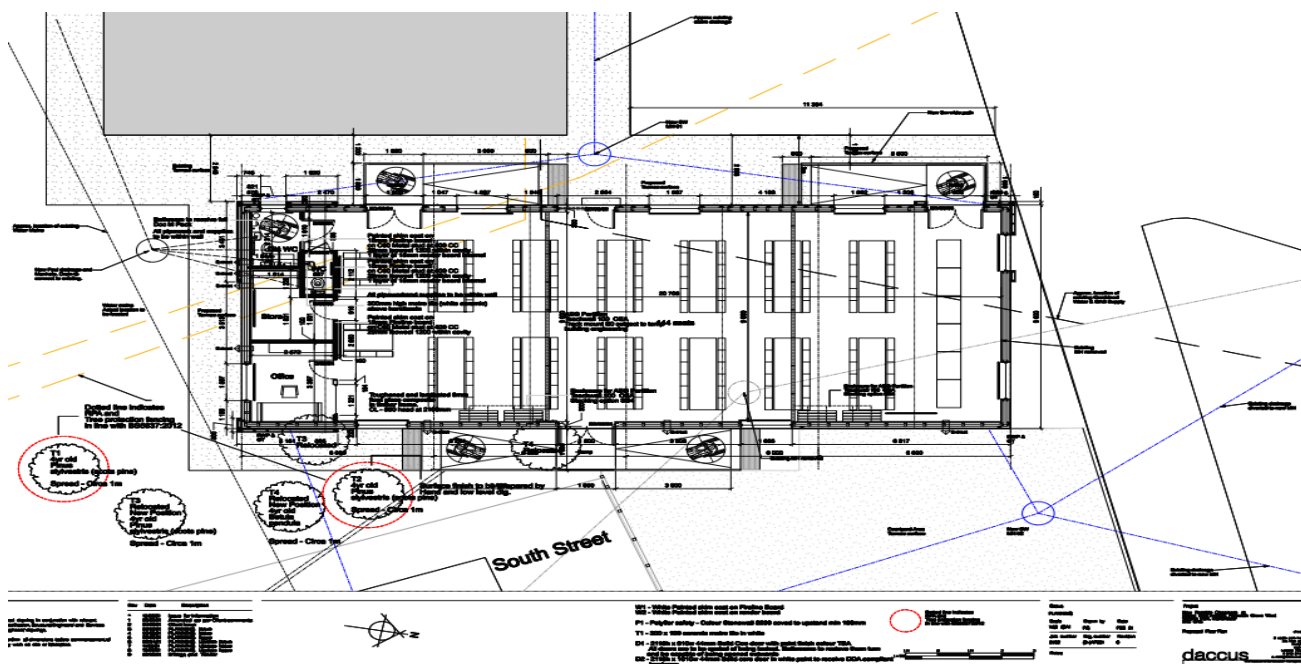
“Underground Services Encountered TP02 from the previous investigation, was terminated at 1m upon encountering utilities marker tape. Our own TPf was also terminated at 1m upon encountering utilities marker tape.”

Pre-Construction Information by Dacus Architects & Construction Managers:

“1.7 Utilities There are no existing services ready to make a connection in the vicinity, but you are alerted to the fact that there are numerous services crossing or near to the site. Attention is drawn to the unknown position of the anticipated power cable passing from north to south. A sub surface survey is required to ascertain the location before any dig commences.”

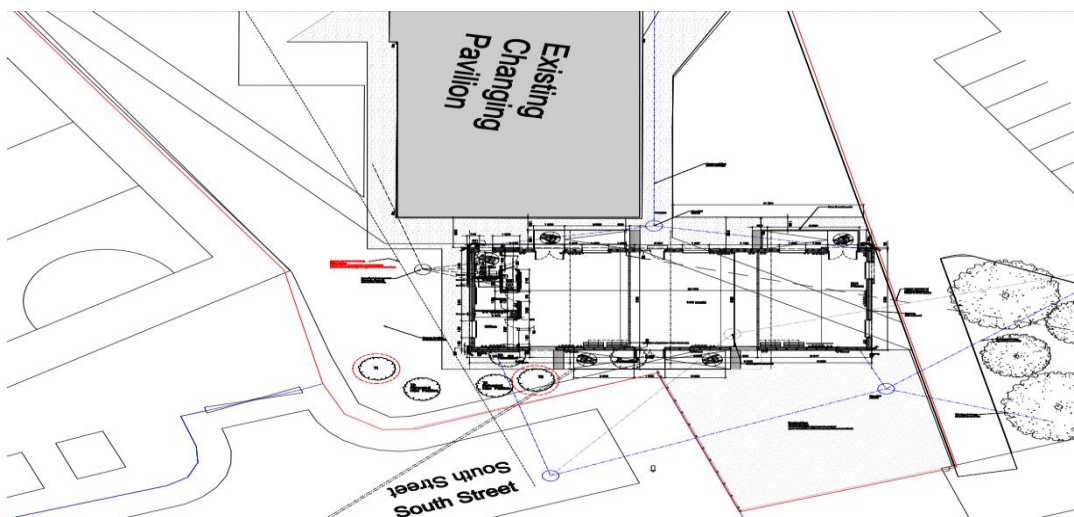
Existing drainage Drawings reference (2-) AP001 – Revision 9

The drawing refers to locations of existing drainage and will be referred to when breaking ground. Any known services will be marked out before breaking ground. Please see below drawings:



Drawings reference (2-) AP003 – Revision 9 GAS

Red line below on drawing shows the route of known gas runs around the site.



NB: Electrical services information is still required has developing the construction phase plan this was not available, this will be updated once information has been provided.

A permit to dig will be in place and CAT scanning and further assessment before excavating any area to ensure all services have been identified. All service information will be reviewed.

M&E design and statutory services

The clients appointed M&E Contractor/consultant, they will work closely with LDR LTD and their appointed M&E contractor. H&S risk information will be coordinated between these parties, and this must include the principal designer. Designers' pre-construction risk assessments will be produced along with risk assessment and method statement for the installation works.

Design risk registers are to be issued along with further pre-construction information as the design evolves.

Construction work

Take appropriate steps by design to reduce risk during the construction phase, i.e., minimize work at height, ensuring coordination with other designs and taking into consideration existing risk known, locality of existing premises, interface issues etc. Include information within the design risk assessments or on drawings to ensure this is communicated to operatives on site.

AG Geo-Consultants Ltd - Phase 2 Geo-Environmental Site Assessment Report ref: Contract No./Report Type: 22-012/P2 25/04/22 **completed on April 2022 identified the following:**

The Made Ground material was as follows and the consultant has confirmed the ground conditions are suitable for the works:

Strata	Depth Encountered (mBGL)		Description & Comments
	Top	Bottom	
MG: Topsoil (clean cover)	0	0.14 (TP04) 0.4 to 0.8	Brown slightly sandy silt/clayey sand, with no anthropogenic components .
MG: clayey gravelly sand/sandy gravel	0.1 to 0.4	0.55 to 2.0	Includes 0.4m of concrete in BH05. Anthropogenic components= brick cobbles, ash and gravel of concrete and brick. Rare concrete boulders and rare metal fragments.
Glacial Till: CLAY	0.55 to 2.0	18.3	Firm/Stiff to very stiff. Extremely high strength at 3m depth.
Chester Sandstone Formation; SAND	18.3	>21.45	-
Infilled Former Laundry Basement (TP02a)			
MG: Topsoil	0	0.5	Geotextile found at underside
MG: gravel, clay and cobbles in varying proportions	0.5	3.1	Gravel and cobbles are brick and concrete,
MG: concrete basement floor	3.1	3.3	-

Cleaning

Any plant, equipment or systems designed may have a subsequent cleaning requirement associated. The design and their location should allow for safe cleaning methods to be adopted, including ensuring that accessibility is safely afforded and where practical by design reduce risks, i.e., by locating plant/equipment at ground level, designing plant rooms with adequate space for access etc

Maintenance

Where practical specify plant, equipment and systems to ensure a safe maintenance regime can be employed after installation.

This may include specifying equipment which does not require frequent maintenance, ensuring equipment is installed which is easily and safely accessible for maintenance, designing plant rooms which are adequate in size and space to ensure safe working thereafter, and liaising fully with the end user to ensure their specific requirements are met.

M&E design and statutory services

The appointed M&E sub-contractor must ensure that risk assessments and method statements are produced based on the design information provided and will also be responsible for providing full O&M manuals upon practical completion.

Use of electrical equipment and temporary supplies

One of the first element of works being carried out is the assessment of services and if required safe isolation put in place of existing services and the installation of a temporary site supply for the

purposes of construction with a separate supply for the welfare area. These works will be done by our approved electrical contractor and certification will be held on site.

LDR LTD Contractors will ensure that only 110V electrical equipment is utilized on site during construction phase, transformers will be used to reduce from 240v to 110v.

Civil and Structural Works

There will significant structural works which are proposed during this phase of the project, at all times liaisons will occur with the structural engineer with design risk information. All existing steel structure has been assessed and findings are being reviewed by LDR LTD. A temporary works register will be set up maintained and monitored throughout the construction phase.

Prior to any construction works commencing on site, all sub-contractors will provide full and comprehensive risk assessments and method statements specific for task for review and approval by LDR LTD site team. Works will only commence following sign off of risk assessments / method statements.

New Structures

Prior to any construction works commencing on site, all sub-contractors will provide full and comprehensive risk assessments and method statements for approval.

The risk assessment and method statement will detail as a minimum the following information/arrangements.

- ✦ The competent person(s) overseeing works
- ✦ Segregation areas/exclusion zones/signage
- ✦ Any temporary propping/support requirements
- ✦ Details of construction techniques, i.e., plant / equipment and methods to be used
- ✦ Safe Working at Height
- ✦ Controls required to reduce vibration, noise and dust levels
- ✦ Access provisions for pedestrians and vehicles (including Traffic Management Plan)
- ✦ Inspection and monitoring requirements

Temporary Works/Supports

Due to there being temporary works on site, such as:

- Portable Scaffold
- Propping etc

LDR LTD will liaise with the structural engineer regarding the proposed construction method for the various elements and have these approved before works commence. LDR LTD have also engaged a temporary works consultant – Independent Temporary work designer who will ensure that all Temporary Work's elements are reviewed and authorised.

LDR LTD will ensure that the **stability and structural integrity** of the new building(s) is always retained throughout the works and in doing this should ensure that temporary supports are **designed** and **installed** where required

Temporary works is defined in BS5975: 2008 "Code of practice for temporary works procedures and the permissible stress design of falsework" as "(those) parts of the works that allow or enable

construction of, protect, support or provide access to, the permanent works and which might or might not remain in place at the completion of the works”.

Temporary works procedures

LDR LTD will apply suitable temporary work procedures for the project, which will contain the following elements:

- Appointment of a Temporary Works Co-ordinator (TWC Liam Rice)- due to their responsibility with regards to the project, these will be made by appointment by a LDR LTD Director.
- Preparation of an adequate design brief.
- Completion and maintenance of a temporary works register
- Production of a temporary works design
- Independent checking of the temporary works design.
- Issue of a design/design check certificate, where appropriate.
- Pre-erection inspection of the temporary works materials and components.

Procedures will be in place to control and supervise the erection, safe use, maintenance and dismantling of the temporary works i.e.

- Check that the temporary works have been erected in accordance with the design and issue a formal “permit to load” where necessary.
- Confirm when the permanent works have attained adequate strength to allow dismantling of the temporary works and issue a formal “permit to dismantle” where necessary.
- The procedure will include measures to ensure that the design function, the role of TWC, and Temporary Works Supervisor(s) where appropriate, are carried out by competent individuals.

Ground Conditions

At this stage of the build no information has been provided, a full assessment will be undertaken by LDR LTD and any preconstruction information will also be obtained and updated to the CPP.

Please see Site investigation report **Phase 2 Geo-Environmental Site Assessment Report Contract No./Report Type: 22-012/P2, this report will be used by the principal contractor and their ground worker.**

The following are further consideration from the above report that LDR will manage:

- No coal related aspects are shown to pose risks to the site.
- No landfills lie nearby.
- There is unlikely to be any significant UXO risk.
- Asbestos-containing-materials have been found on the school site elsewhere, associated with the large Daisy Bank works and tram depot. This new classroom area (apart from being a laundry and police station) lies in a former residential area and so the lack of ACM in this area is not unexpected. ACM could still be found during redevelopment.
- Anthropogenic components of the made ground comprise: fragments/gravel/cobbles of brick and concrete, plus rare metal.
- There were no visual or olfactory indications of contamination in the classroom footprint, nor in the immediate surroundings. That included there being no signs of ACM.

- The chemical results from previous investigations were reassessed to modern standards and to Public Open Space (Parks) (POS) guidelines.
- No soils lying below the current topsoil cover system layer at the proposed classroom location, have been tested for contamination. That said they are not significantly dissimilar to the made ground found on other holes close by and testing of those holes found no concentrations exceeding POS (parks) guidelines.
- No risks have been found to site end-users (even if the clean cover system were removed).
- No protection is required for Radon.
- No potential sources of ground gas have been found.

The ground conditions findings were as follows:

The basement could belong to the Police Station, that was smaller than the laundry and occupied the site before the laundry. The natural soils directly below the 0.5-2.0m thick made ground, and indeed, below the basement slab, are stiff (or very stiff) and so easily capable of providing a bearing stratum for the new classroom point loads. In the letter assessing potential foundation options, the options were.

- Pad footings.
- Manhole ring footings.
- Mini driven piles.
- Vibro-stone/Vibro concrete columns (VCC/VSC). Each option required further information to be gained from site to enable feasible options to finally be confirmed.

That was:

- To confirm the make-up of backfill to the infilled basement. The former building could have been collapsed into the basement meaning cobbles of concrete and brick, which would prevent/complicate some foundation options.
- The waste classification of the basement infill and that of the made ground away from the basement. Such could have significant cost implications for some foundation options.
- The basement floor slab thickness/strength to support loads. Gaining that information was the aim of the investigation.

NB: An assessment/consultation will be made between the Principal contractor, structural engineer, civil engineer and principal designer to ensure the safest method/design for foundations.

High Risk Areas

These areas will be areas such as:

- Traffic routes
- Unloading/loadings areas
- Working at height
- Services areas/Plant movement areas
- Excavations

The above is not an exhausted list.

No-Go areas or other restrictions

This is a no smoking site.

Works to be carried out at times considered reasonable for a residential area.

- Monday to Friday 7.30 am to 5.30 pm
- Saturday 8am to 1pm
- No working Sundays or Bank Holidays without prior permission

LDR LTD has produced this Construction Phase Plan, which details the procedures, arrangements and resources in place to safely manage the construction phase of the works. The developed health and safety plan define the procedures, arrangements and resources in place to safely manage the construction phase of the works as well as detailing our risk management strategy, including residual risks on site and specific construction risks which are known at this stage.

Residual Risks – i.e., access/egress, security, welfare etc

One of the key risks associated with the works will be the interface between the construction works and members of the public, due to the adjacent premises, and the site being within Liverpool City Centre which has a lot of pedestrians and traffic passing by.

LDR LTD has taken note of all residual risks in and around the site as above. With respect to all residual hazards present in and around the site, details of how these risks will be managed and controlled is described within section, site access, site security and welfare facilities. This details how these risks will be managed and minimised to operatives on site and also to any visitors to site.

Regular liaison will occur with adjacent occupiers to ensure there is good cooperation and coordination between the construction team and local business community.

Construction Hazards/Risks

LDR LTD has taken notice of all the known hazards and associated risks, which have been identified at pre-construction stage and are detailed within the Pre-construction health and safety plan.

The control of the identified hazards and risks will be achieved with adequate and proportionate health and safety arrangements put in place by LDR LTD, this to reduce and minimise the risk to health or safety of employees and others affected by the works for the duration of the project.

Hazard/work activity	Initial suggested risk control measure as advised by Principal Designer	Further action required by Design Team and Principal Contractor	By whom
Enabling works and services or drainage diversions.	Refer to existing services information and designer risk assessment	Review existing information and ensure this is adequate to mitigate risk. Appoint specialist sub-contractors and ensure they provide RA&MS	Designer/Principal Contractor and sub-contractor
Contact with hazardous substances, Fire and explosion	Shoring will be required and protect existing drainage runs.		

Manual handling of materials/equipment and installation of new equipment. Including cladding systems.	Design team to consider, size and weight of materials and specify lighter materials where practical. Consideration to be given to materials transfer to upper floors, which will reduce manual handling. Waste materials to be cut into manageable sizes and taken down in designated hoists.	Principal contractor to liaise with design team and establish safe system. Sub-contractors to provide risk assessments and method statements	Designer/ Principal Contractor and sub-contractor.
Interface with existing services.	Reference to be made to utility/O&M Manual/H&S File service drawings available. Liaison to occur with statutory service providers for any diversions or new connections.	Further site investigations to determine services will be required. Sub-contractors to provide risk assessments and method statements	M&E designer Principal contractor & Sub Contractors
Installation of new mechanical and electrical services	New M&E services to be designed and subject to risk assessment, which considers safe working during installation and safe working and access requirements for future inspection testing and maintenance.	Works to be undertaken by competent NICEIC (electrical) contractors. Full O&M Manuals to be provided.	
Interface with non-construction personnel.	The works must be segregated as much as is reasonably practical and kept separate from adjacent land uses. Physical segregation of the works to be provided by use of suitable hoardings. Under no circumstances will any non-construction personnel come into direct contact with construction activities.	Close liaison with affected occupiers within the immediate vicinity of the site. The works will be undertaken so as to cause minimal impact. Site to be registered with the Considerate Contractors scheme.	Principal contractor
Slip/trip hazards from materials/Waste disposal etc	A site waste management plan should be produced by the principal contractor.	Principal contractor to consider how they will manage the site to ensure that it is kept in good order, including the proposals for waste disposal. Environmental considerations' to be made for waste reduction, recycling and disposal.	Principal Contractor & Sub Contractors
Fire and explosion	Consideration to be given to early installation of warning detection systems (or at least a temporary wired or wireless system) and temporary fire doors/frames on single staircase blocks to aid safe evacuation during construction.	Fire risk assessment and fire plan to be produced prior to commencement of works on site. Appoint adequate number of Fire Marshal's. create site fire logbook	Design team, principal contractor and sub-contractors

	Fire strategy to be developed for end use of the scheme.		
Vehicle, pedestrian and plant movement on site.	The traffic management plan must be included within the developed (construction phase) Plan and this must define site access and egress routes, including the arrangements for the delivery of materials, unloading, storage and transportation on site. The traffic management plan must also establish what potential impact there may be on existing traffic systems and the measures are in place to reduce such impact where practical.	Traffic management arrangements to be clear (Including to non-site personnel) and be communicated to all relevant persons.	Principal contractor
Edge Protection	Where working at height can't be avoided then collective measures will be installed such as edge protection. All edge protection will be installed to ensure it compatible with the environment and meets the required standards for edge protection. A competent contractor will be sourced to install the edge protection to the recognised standard or manufacturers' guidance for system edge protection, designed by calculation, by a competent person, to ensure it will have adequate strength and stability. All edge protection should be erected, dismantled and altered in accordance with the Manufacturers' erection guide for system of edge protection	Edge protection design to be procured followed by edge protection plan outlining safe for assembly. All edge protection should have an inspection regime by a competent persons and be included in the temporary works register.	Principal Contractor and Contractor
Assembly, use and dismantling of portable scaffold	The scaffold is a basic configuration described in recognised guidance it should be erected as per that manufactures guidance and designed, calculation, by a competent person, to ensure it will have adequate strength and stability. All scaffolding should be erected, dismantled and altered in accordance with PASMA and manufactures guidance.	Scaffold manufactures instructions to be procured followed, along with PASMA guidance. Scaff-tag to be used and inspection regime to completed. The portable scaffold should be subject to an inspection regime by a competent person (PASMA Trained) every 7 days or if dismantled/moved.	Principal contractor and contractor.

Falling Materials	All works where materials can fall from height will be assessed and if practicable works will be avoided. Where it cannot be avoided other means, which comply with working at height regulations.	All risk assessments and method statements will reflect working at height and be adhered to. Toe boards, brick guards or debris netting will be put in place. Hard hat rule will apply where the risk of falling materials or objects exist. Exclusion zones.	Design team, Principal contractor and contractors
Working at Height	All works at height to be assessed and if unavoidable will be done from working platform. All working at height will be planned, Managed and organized before commencing. Only trained competent person will undertake the work. Hierarchy of control applied. Risk assessment and method of works to be carried out in order to ensure structure is safe and safe method of works. All person working at height will be trained and competent. Portable Scaffold will be supplied for access for working at height. All scaffold will be erected and inspected by competent person. Materials will be transformed to work platform.	Site management will Review and Assess working at height on the project. Review of Risk Assessment and inspection of Roof and works before works commence by site management. All competent training will be taken and kept on record. Inspection records will be kept and recorded. Specialist contractors to be appointed. Erection and inspection will be safe system of work agreed with design team. General monitoring and supervision of works	Principal contractor & Sub Contractors
Hole Management	All holes will be formed as pouring concrete and plastic inserts will be used to assist with ensuring holes remain protected. Hole will be formed this way to reduce the dust exposure. Where holes can't be formed then core holes will be drilled. LDR LTD will look to supply plastic infills for these to be protected straight away	LDR LTD will follow the hole management plan and ensure all holes are protected as per the plan. All holes will be logged into a register. All holes will then be monitored using LDR LTD hole inspection form.	Principal Contractor, Architect Contractor
Excavations	Review existing information and ensure this is adequate to mitigate risk. Ensure application are issued to service companies. Appoint specialist sub-contractors and ensure they provide RA&MS	Permit will be issued. All excavations are supported. Shoring/ supports if required will be installed and protect existing drainage/ services runs. Secure and safe access will be installed to excavation.	Principal Contractor and sub-contractor

	Excavations for foundation identified as risk. Permit systems established.	Daily inspection/ monitoring of all excavations before works can commence that day. All excavation will have edge protection installed along with signage.	
Asbestos	ACM'S present in the ground. All contaminated ground to be identified and isolated. A plan to be put in place for the removal before works commence. Licenced asbestos removal company to undertake the works under risk assessment and method statement.	All persons working on site to be asbestos awareness trained. Principal contractors to identify asbestos contamination in induction. Regular toolbox talk s and awareness on ASM's in ground.	Principal contractor
Hot Works	Materials will be used to eliminate, reduce or limit the use of Hot Works. IF this can't be done a Permit system will be established.	Induction will explain permit required and process. Permit will be acquired before hot works can commence. Fire precautions will be supplied and on hand when hot work operations are undertaken. Permit will be followed. Works will cease and checks of areas will be undertaken up to hour after the operation	Principal Contractor, Contractors
Window / Cladding Installations	Consideration to be given to access arrangements for window repair works, if these cannot be done internally. MEWPS or scaffold is likely with details to be confirmed when known.	Clarification to be obtained and RA&MS provided for works when confirmed.	Designer, principal contractor and sub-contractor.

Occupation health exposure, noise, dust, hand/arm vibration etc	Designers to consider ways to eliminate or reduce occupational health risks at the design stage. Principal Contractor to engage with contractors at Pre-start to ensure that they are considering and managing occupational health risks. Identify occupational health risks and produce the relevant risk assessments. Use of appropriate monitoring where action levels are reached.	Consider relevant health surveillance both pre-employment and during works. Provide information, instruction and supervision, and promote occupational health issues i.e. signage, awareness days, literature. Consider mechanisms of monitoring health surveillance systems and procedures. Site to have its own COVID risk assessment and all contractors to incorporate the risk of COVID into their risk assessment.	Principal Contractors, Designers, Contractors.
Future Cleaning and Maintenance.	Architect to provide an overview document which will give an outline of the design proposals made for each cyclical cleaning requirement, i.e. window cleaning by roof access,	Design team to ensure risks are reduced as low as practical, particularly with respect to working at height, with WAH being avoided if possible, and if not, the hierarchy of risk control being adopted as previously described. Input to be provided by specialist contractor.	Design team, Principal Designer, Principal contractor and contractor

Construction Risk Assessments and Method Statements

For all works being undertaken by employees of LDR LTD and sub-contractors the controls and safe working practices detailed within this plan will be always followed.

All works will be covered by approved risk assessment and method statements. Each sub-contractor will be responsible for ensuring their own operatives are aware of the controls described within their method statements and this will be overseen by LDR LTD via the induction process and also through regular monitoring on site.

These procedures will also apply to works undertaken by LDR LTD own operatives.

There is also general safe system of works included within this construction phase plan that define minimum standards expected on site. These general and specific methods of working and risk assessments will be communicated to all relevant operatives via toolbox talks and they will be made aware that these are the absolute minimum safe standards expected on site. Signatures of attendance to these toolbox talks will be obtained and held within this Construction Phase Plan.

As stated previously, residual risks, which remain on site, have been assessed and evidence of how they are managed is described within this plan.

All sub-contractors will attend a pre-contract start up meeting prior to commencement to clarify their role and the safety requirements of LDR LTD .

Design Risk Information and Coordination

There will be an ongoing process of design coordination with the team, which will be primarily be via design team meetings and workshops but also via remote coordination as required. This will include dealing with any H&S issues which are known at this stage, or which may occur during the construction phase. At all times, LDR LTD will liaise with the principal designer on matters of Health and Safety.

Design risk assessments have been provided by the architect and these are included within the CDM pre-construction information. At the time of writing this construction phase plan, design risk assessments are to be issued by the structural engineer and these will be cross referenced within this document when available and issued to relevant sub-contractors.

Statutory Services

Information with regards to existing energy supplies for this project will be found in the Health Safety file/O&M Manual. The survey was limited in places so LDR LTD –M&E contractors will further investigate existing services on site and isolate these as required with certification and relevant information being held in the site file.

Prior to any works, which may interface with services, statutory service drawings will be obtained and used as an aide memoir; CAT Scans and the use of Cable Avoidance Detectors will also supplement this.

Any electrical works undertaken by LDR LTD will only be done utilising the services of a suitably qualified electrical contractor with NICEIC approval. Battery operated tools will be used where they can, where this is not possible all electric tools will be 110V, where transformers are used they will be fed by an RCD and checked on a regular basis.

If any damage to services occurs, LDR LTD will notify the appropriate service provider immediately.

Once M&E design risk assessments have been provided, they will be issued to contractors undertaking M&E installation works for them to produce their risk assessments and method statements in accordance with the design risks identified. As soon as information has been obtained regarding services all contractors and operatives will receive a toolbox talk as to locations and procedures to be followed when interfacing with services.

LDR LTD and the principal designer will ensure full liaison and co-operation with the design team throughout the duration of this project, particularly for key critical elements of work, Full dialogue and liaison will occur with the Project Manager, the safety coordinator and appointed design consultants and information will be coordinated between the design team and appointed sub-contractors to ensure an effective and safe method of works are followed.

This Construction Phase Plan will be continuously developed to reflect the works being undertaken.

Dust suppression

Dust is created on the site during most stages of construction and will be managed throughout the construction phase. LDR LTD will consult with their principal designer and designers and where possible and practicable materials will be chosen to eliminate dust, reduce dust or have materials cut to size before coming to site.

Generally good housekeeping will be employed to reduce the amount of dust created, LDR LTD ensure in procurement that a housekeeping questionnaire is completed and contractors adhere to these standards. LDR LTD in conjunction with their sub-contractor shall ensure dust generated from site activities does not become a risk to others and in doing so shall assess the dust risk for each work package, ensure adequate controls are in place and review these controls with their contractors.

Measures will be taken to eliminate or at least minimize dust generation with consideration given to material usage, type of work equipment used, and work methods applied. Where dust being unavoidable, dampening down and extraction techniques will be applied, and appropriate PPE worn. Dust is created on the site during most stages of construction and will be managed throughout the construction phase.

Generally good housekeeping should be employed to reduce the amount of dust created.

The principal contractor in conjunction with their sub-contractor shall ensure dust generated from site activities does not become a risk to others and in doing so shall assess the dust risk for each work package, ensure adequate controls are in place and review these controls with their contractors. Measures will be taken to eliminate or at least minimise dust generation with consideration given to material usage, type of work equipment used, and work methods applied. Where dust is unavoidable, dampening down and dust extraction techniques will be applied.

Contractors risk assessments and method statements will identify specific controls to reduce dust and protect themselves and others during activities. All equipment will be fitted with extraction and kept maintained along with the use of supersession to further reduce dust. Dry brushing will be minimal and contractors and LDR LTD will look to use H class hoovers and to remove dust from surfaces. All operatives that may be exposed to dust will wear respiratory protective equipment and be face fitted to this specific type of RPE and proof of this will be held on site.

Dust Control External:

- Where assessed & identified by LDR LTD management, Haulage contractors will fit dust covers to load during removals & material deliveries.
- Dust suppression (Watering/Mist Spray) during vehicle loading procedures.
- Water suppressed road cleaning (periodic following site assessment by LDR LTD site manager).
- Existing drainage systems to be maintained and cleaned by LDR LTD to prevent any environmental impact from proposed procedures.
- Any cutting will be reduced by cutting in factories.
- Any cutting outside of concrete/paving etc will be done with extraction and water supersession.

Internal Dust Controls:

- Natural ventilation will be used; however extraction will be enforced on all cutting, drilling on all invasive equipment.
- Where possible wet suppression will be used to reduce dust
- Dry brushing will be eliminated and the use of filters H class filters will be used
- Cutting areas will be in isolated rooms with barriers and signage installed
- All contractors with exposure to dust must have face fit training and be clean shaved and wearing the correct RPE as per their RA/MS.
- Those with beards for religious purposes must wear the appropriate RPE.

Noise

As part of the pre-planning process of work activities, those works, which may bring about excessive or high levels of noise will be pre-assessed, including the impact upon construction operatives, tenants within the building and neighbours / business owners in nearby premises.

The requirements described within The Noise at Work Regulations 2005 and the British Standard BS 5228 Noise and Vibration Control on Construction and Open Sites will be adhered to fully.

Full liaison will occur with affected tenants as part of the pre-planning of construction work activities and every effort will be made to minimise the impact upon their work activities as described above.

Noise monitoring will occur during potential noisy activities and were the action levels are exceeded as identified within the Noise at Work Regulations (see below) then appropriate action will be taken.

1.22 Storage Areas on Site:

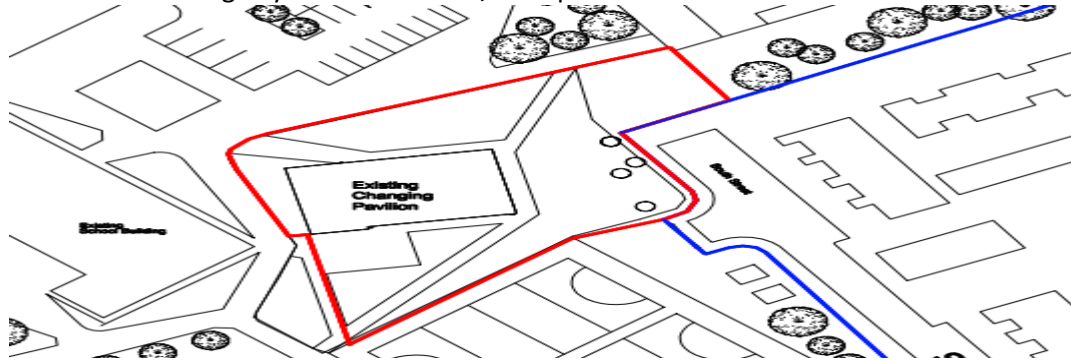
Manual handling trolleys will be used to assist with material unloading and distribution on the project. Storage of materials will be within the designated compound area which will be within the site. The proposal will be to transfer these as quickly as possible to the required point of use. Area in the site's footprint will be utilised as storage area for the remaining construction phase. Waste skips will be segregated within the storage area to avoid cross contamination.

The site and the surrounding area will be always kept as clean and tidy as possible. Flammable materials storage will be strictly within the supplier's requirements and far enough away from the structure to prevent spread of fire in the event a fire breaks out. No LPG or Oxyacetylene will be allowed to be stored on site overnight, this will need to be removed by contractors who are using it. The storage of any hazardous substance will be done in manufactures guidelines and insurance requirements. All hazardous substance bottle cylinders will be kept in cages which are well ventilated and have cover to protect against whilst all so keeping them upright and secured.

LDR LTD will plan and co-ordinate deliveries & storage for material with sub-contractors. Such activities will be planned not to present hazard and disruption to 3rd parties.

1.23 Control of Site Traffic:

The main point of access for deliveries will be via Stockport Road, onto Richmond Grove East then onto South Street, this will always be controlled by a trained banksman. Stockport Road has both way traffic. Site vehicle access and pedestrian walkways will be segregated as all vehicle access will be into the controlled unloading bay via South Street/Stockport Road and on site into a controlled zone.



There is limited contractor car parking available on site. Local car parking facilities will be utilised. All routes to be kept free of obstruction by materials waste, etc. Vehicle unloading bay to be set up within site footprint inside compound just off Stockport Road to minimise traffic disruption.

LDR LTD will attempt to cause minimum disruption to other traffic within the immediate work area. All deliveries will be scheduled with 48 hours minimum notice to LDR LTD coordinator.

All contractors will be instructed to always take due care and attention when entering or leaving the vicinity of the site area. Existing vehicular and pedestrian access routes are to be maintained. Any

restriction in these routes is to be agreed with site management and local authority, approval to be obtained in advance.

The main point of access for deliveries will be via South Street/Stockport Road and access will be controlled which by a trained banksman.

Vehicles will be stopped on South Street/Stockport Road by the banksman, they will then be reversed into site compound where they will be lined with the vehicle entrance to be unloaded. All vehicles will then be banked out of the site and all drivers instructed on safe route back to the main highways.

Liaison has already occurred with the adjacent business owners, and this will continue throughout the project. LDR LTD will arrange deliveries and waste removal in a coordinated manner so there is no unnecessary build-up of site vehicles. A trained vehicle banksman will control all site traffic.

A separate traffic management plan visual and written along with the materials and logistics plan will be created once the site has set up.

1.24 Specific Requirements of Client:

LDR LTD understands the importance of Health and Safety to the Client, as per the preconstruction information pack, and will adhere fully to any specific site safety rules, procedures, permits to work etc. The works in and around the site will be suitably segregated and they will be executed to cause no undue risk or disruption to any persons who may be affected by the works.

All works undertaken will be done so in accordance with the Health and Safety at Work Act, the Construction (Design and Management) Regulations. The Management of Health and Safety at Work Regulations and all other relevant regulations/statutory legislation.

1.25 Details of any Specific Safety Systems of Work/Permit to Work Systems:

Further detailed method statements will be provided as the works progress within the Construction Phase Plan

Any works requiring 'Permit to Work' or Hot Works Permit will be suitably controlled by the site manager of LDR LTD and included within this plan. (See specific section on Permit to Work). The permits system is vital to LDR LTD and is part of their five pillars which is the third pillar control of risk.

1.26 Arrangements for Communication:

- Daily prestart meetings will be held by LDR LTD and Contractors on site
- Regular Toolbox Talks will be required by all contractors on site
- Regular progress site meetings between the management team and contractors on site.
- Monthly Design Team Meetings to be held to facilitate the flow of critical project information to all parties.

1.27 Health and Safety File:

LDR LTD will liaise with the principal designer to formulate the H&S File and O&M Manuals as works progress to ensure effective compilation of the file to ensure full compliance with CDM 2015 Reg 12.

All works-contractors will be advised of the requirements to provide information for the Health and Safety File at the pre-contract meeting.

1.28 COSHH - Hazardous Substances Control:

Flammable materials stored will be done strictly within the supplier's requirements and far enough away from the structure to prevent spread of fire in the event a fire breaks out.

Flammable substances will be stored in a fire-resistant container located over 20 metres away from the building due to associated fire risk. No LPG or Oxyacetylene will be allowed to be stored on site overnight, this will need to be removed by contractors who are using it. The storage of any hazardous substance will be done in manufactures guidelines and insurance requirements. All hazardous substance bottle cylinders will be kept in cages which are well ventilated and have cover to protect against whilst all so keeping them upright and secured.

Any fuel tanks will be banded in a material which will be fire restraint and comply with British standards, the area will be isolated, with appropriate signage, spill kit and fire points. The fuel tank will be kept secured and so will the area it will designated too.

COSHH assessments will be obtained from all parties involved in the use of hazardous substances and details held within Section 4.

1.29 Scaffolding Erection, Alteration and Dismantling:

All work at height will be planned to involve the use of fixed scaffolding for high level work. The scaffolding will be erected, altered and dismantled by a competent scaffolding contractor who will be required to supply a detailed Method Statement and Risk Assessments. Where identified a bespoke Scaffold Design will be required to be provided to LDR LTD to ensure amongst other things that the scaffold is fit for purpose, load bearing and tied in to the building correctly to prevent collapse.

An assessment will be carried out prior to the erection of the scaffolding to ensure that all areas where access could be gained to the scaffolding are identified and control measures implemented. The scaffold will be scaffold-tagged at all times in a place that is visible to all operatives and site visitors.

Project Manager will inspect the scaffold before being put into use and then a handover inspection certificate will be issued by the scaffolding company and a copy placed in the Construction Phase Health and Safety Plan on site. The scaffold will have a visual check carried out each morning by the Project Manager before anyone uses the scaffold and then a main inspection every seven days or following adverse weather by a competent person who has completed the CITB two-day scaffold inspection course.

Scaffolding will be inspected by the Principal Contractor (LDR LTD) or arranged to be carried out by a competent person on a weekly basis and in line with statutory requirements. No person is permitted to alter any part of the

fixed scaffolding. Where alterations are required, this will be organised by the Project Manager to ensure that it is undertaken by the relevant competent contractor.

All work at height will be planned to involve the use of Portable scaffolding for high level work. All portable scaffold will be PASMA approved and sort from approved supplier and erected/dismantled by a PASMA trained person. This will all be covered via risk assessments and method statements and all areas will be barriered off with signage. Statutory scaffold inspection completed by the PASMA trained person to ensure it's in a good condition. The portable scaffold will be used, erected and dismantled in line with the guidance from the manufacture.

The scaffold will be always scaff-tagged in a place that is visible to all operatives and site visitors. The Site Manager will inspect the scaffold before being put into use and then a handover inspection certificate will be issued by the scaffolding company and a copy placed in the Construction Phase Health and Safety Plan on site. No person is permitted to alter any part of the portable scaffolding. Where alterations are required, this will be organised by the Site Manager to ensure that it is undertaken by the relevant competent contractor. Foreseeable risk of materials and tools falling from the scaffold, it will be suitably protected with netting, toe boards and sheeting if required.

1.30 Fire and Emergency Contact Information:

LDR LTD will establish a clear and concise fire strategy to control and eliminate the risk of a fire breaking out on the project. In the first instance fire points will be established on each floor at reasonable points. Fire marshals on site will be Site Manager. A fire risk assessment will be carried out at the earliest opportunity and subsequently updated as the works progress.

The fire alarm system, fire signage, firefighting stations etc will be provided and emergency procedures communicated as part of site induction to all operatives attending site. Should an alarm be raised on site the linked system will sound in the site office areas also and both areas will be evacuated in a controlled manner to the designated muster point for a headcount to take place. Fire Marshals will be appointed from the site team to manage evacuation.

Fire Safety Management

LDR LTD will make arrangements to review and update their fire risk assessment and fire plan to reflect the works post initial handover, the findings of which will be communicated to the site team Prior to handover, all fire safety measures associated with means of warning, detection and evacuation, including clearly signed means of escape will be in place and all warning and detection systems will have been tested, commissioned and fully available.

The fire risk assessment **will be completed** and will be reviewed periodically.

All operatives working on this project as defined below by LDR LTD will follow site-specific fire procedures accordingly. These site fire procedures will be appended further by the site fire plan, identifying fire points, escape routes etc.

Fire points will be set up at strategic places around the project, which will incorporate a means for raising the alarm, extinguishers, and a layout plan, indicating nearest escape route.

Any Hot Works undertaken will only be undertaken in conjunction with a Permit to Work system, this will be adhered to at all times by LDR LTD

These fire procedures are issued to all employees of LDR LTD and any sub-contractor operatives with the site safety rules and form a part of the site induction. The fire procedures apply to all personnel on site and should be followed accordingly throughout the duration of this project.

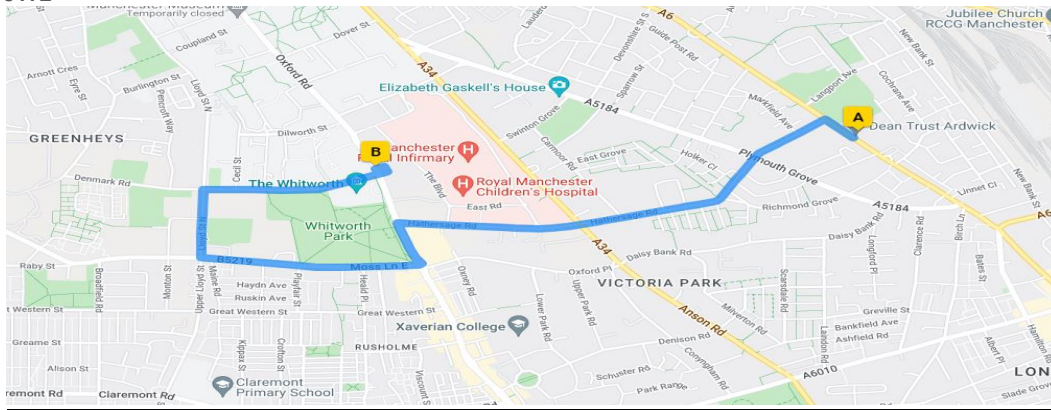
A fire strategy will be developed from the outset by LDR LTD Limited.

ASSEMBLY POINT ON PROJECT TBC.

Key Emergency contact information:

Nearest Hospital

Oxford Road
Manchester
Greater Manchester
M13 9WL



LDR LTD will record all accidents on the site accident book; near misses (Safety Observations) will be reported to the site supervisor.

The Project Manager will ensure that:

- The LDR LTD Directors are informed immediately of any accidents/incident or RIDDOR accident where a person is awaiting hospitalisation or is absent from work as a result of injuries sustained.
- The accident book is kept up to date.

All reportable accident and incidents will be reported as soon as possible to the HSE via the on line means. If there is a death then the emergency services and HSE will be notified without delay. Further guidance on the details of RIDDOR will be sought from the Rawlings.

Ways to report an incident at work

- Online
<http://www.hse.gov.uk/riddor/report.htm#online>
- Telephone
Incident Contact Centre on **0845 300 99 23** (Monday to Friday 8.30 am to 5 pm.)
- E-mail
Download the [appropriate form](#)

- Reporting out of hours
Duty officer **0151 922 9235**.

The HSE and local authority enforcement officers are not an emergency service. You should contact your enforcing authority out of hours in the following circumstances:

- fatal accidents at work.
- accidents where several workers have been seriously injured.
- accidents resulting in serious injury to a member of the public.
- accidents and incidents causing major disruption, such as evacuation of people, closure of roads, large numbers of people going to hospital etc.

Utilities emergency contact information:

- **Gas: 0800 111 999 - Cadent**
- **Electricity 0330 1010 222 – Scottish Power**
- **Water: 0345 672 3723 – United Utilities**

1.31 Site Specific Management Structure:

The following defines the site management structure for the Construction Works identifying the individuals responsible for ensuring compliance to safety standards.

Site Manager – Liam Rice

1.32 COVID Arrangement:

This section outlines the arrangements for COVID on site, this is to ensure all though government guidance remains relaxed the site ensure COVID remains a priority.

The following measures being defined below as continuing to still be required until further notice.

- Project to have a site COVID risk assessment.
- All sub-contractors to ensure the risk of COVID is identified and assessed in their own risk assessment with regards to COVID.
- Sanitise points should will be in place and be kept well stocked.
- Clear signage will be in place to give awareness of the COVID risk and measures.
- Cleaning regimes should remain proportionate to the project and the number of contractors using the site and facilities.
- Numbers in canteen again should remain proportionate and if practicable contractors kept to their own bubble.
- Contractors working bubbles should be reviewed in line with their risk assessments.
- All contractors should be encouraged to undertake regular testing whether lateral flow testing or PCR testing.
- Wherever possible the message of safe distancing should be practiced.
- Vulnerable persons need to be considered, in site wide COVID risk assessments and sub-contractors COVID risk assessments.
- Close contact guidance to be followed.
- Work encouraged to be double vaccinated, but not forced.
- Safe isolation guidance to be followed.
- Face to face working to be eliminated, when possible. It should be identified and controlled as part of the risk assessment process.
- Keep all offices, canteens or other enclosed spaces well ventilated.

- Ensure no one is allowed on site that has tested positive or experienced symptoms of COVID 19.

THE DEAN TRUST ACADEMY ARDWICK

CONSTRUCTION PHASE HEALTH & SAFETY PLAN

2.00 SITE SAFETY RULES:

These rules apply to the works to be carried out and shall be adhered to at all time. These rules will be issued to all on-site personnel as a site induction procedure, compliance, and recorded.

All site operatives shall ensure so far, as is reasonably practicable minimum disruption to employees any other persons at all times. These site rules shall be read in conjunction with those provided by the safety co-ordinator.

- All contractors will report to the site office and complete the site attendance register or bio metric system.
- All employees of LDR LTD and any other contractors will observe the site rules, including the use of any necessary personal protective equipment, for example, site mandatory PPE and RAMS SPECIFIC PPE such as ear defenders, lanyards and harnesses will be worn when necessary.
- All operatives must have CSCS cards or equivalent.
- All employees of LDR LTD and any other contractors will observe the site rules, including the use of any necessary personal protective equipment, for example, ear defenders, hard hats, boots, lanyards and harnesses will be worn when necessary.
- All employees of LDR LTD and any other contractors will ensure that appropriate standards of housekeeping are maintained and will keep their respective work areas in a tidy condition.
- All site operatives will use plant and equipment in the correct manner, ensuring that they are trained in its use and that equipment is maintained in good condition. Certification evidence of plant operators is held by LDR LTD inc. Abrasive Wheels, CPCs, NPORS etc.
- All site operatives will use the site welfare facilities and ensure that they are kept in a reasonable condition at all times and not abused.
- LDR LTD will appoint site cleaner to ensure Welfare Facilities are kept in a satisfactory condition.
- LDR LTD will ensure the safety of its employees and of contractor's employees, the public and any other persons affected by their works at all times.
- Site operatives will comply with the instructions of the Project management at all times and will report any hazards and accidents, as they become apparent.
- All employees of LDR LTD are fully trained and competent and only fully trained and competent site operatives may use site equipment.
- Employees of LDR LTD and any other contractor's operatives shall not interfere with any equipment unless authorised to do so, for example, scaffolding and electrical services.
- All employees of LDR LTD and any other contractor's operatives will always comply with safe working procedures and methods of work as defined in Section 8.1 of the pre-construction information pack
- Scaffolding may only be altered by authorised personnel. Do not remove guard-rails/toe boards unless authorised. Keep walkways clean and tidy by regularly removing rubbish to skips.

THE DEAN TRUST ACADEMY ARDWICK

CONSTRUCTION PHASE HEALTH & SAFETY PLAN

3.0 SAFE SYSTEMS AND METHODS OF WORK:

3.1 GENERAL SAFE METHOD OF WORKING:

The following method statement outlines the safety standards, which will be adhered to when maintenance/construction work is being carried out, during the Construction works.

LDR LTD will ensure that all work undertaken is carried out in accordance with the requirements of the relevant legislation, as defined below:

- | | |
|--|------|
| • The Health and Safety at Work etc. Act. | 1974 |
| • The Management of Health and Safety at Work Regulations. | 1999 |
| • The Construction Design and Management Regulations. | 2015 |
| • The Provision and Use of Work Equipment Regulations. | 1998 |
| • The Manual Handling Operations Regulations. | 1992 |
| • The Working at Height Regulations | 2005 |
| • The Personal Protective Equipment Regulations. | 1992 |

• The Reporting of Injuries, Diseases and Dangerous Occurrences Regulation	2013
• Lifting Operations and Lifting Equipment Regulations	1998
• The Control of Noise at Work Regulations 2005	2005
• The Electricity at Work Regulations	1989
• The First Aid at Work Regulations and Approved Codes of Practice	1981
• The Control of Vibration at Work Regulations	2005
• The Hazardous Waste Regulations	2005

This list of legal requirements/standards is not exhaustive; it provides a guide to the principal areas of health and safety legislation, which will be adhered to. In addition, where applicable the relevant British Standards and HSE Guidance Notes and Codes will be applied to all work carried out on this project

3.2 SLIPS, TRIPS AND FALLS:

Good order on sites will be given due consideration and LDR LTD will ensure this is achieved to mitigate the risk of slips, trips and falls. This will be practically managed by ensuring materials and equipment are set up to avoid trip and slip hazards, walkways, stairs and entrance/exit points will be kept clear and unobstructed.

Materials will be ordered as required and a separate storage area will be designated as appropriate. Waste will not be allowed to accumulate and will be disposed of in bins/skips provided. High levels of housekeeping will be maintained on site.

3.3 MANUAL HANDLING:

[The Manual Handling Operations Regulations 1992](#)

LDR LTD will so far as is reasonably practicable, avoid the need for their employees to undertake any manual handling operations at work which involve a risk of them being injured. LDR LTD will provide any equipment that is required as identified by the site-specific risk assessment, assess any hazardous manual handling operations that cannot be avoided and put in place control measures to eliminate and reduce potential injury. Have equipment available for manual handling purposes such as wheelbarrows, sack barrows, bottle trolleys and bogies.

Monitor manual handling operations and where required reassess the tasks and put in place any additional controls.

3.4 NOISE:

[The Control of Noise at Work Regulations 2005](#)

Every attempt shall be made to control/minimise noise at source.

LDR LTD operatives working on sites (particularly those near dwellings) will take all reasonably practicable steps to minimise the noise generated on the site.

Where noisy activities are unavoidable the disturbance will be minimised/attenuated by choice of technique, timing, shielding or protection as appropriate.

On all moving plant, noise levels will be minimised by being vigilant on points such as:- •

Stopping rattles (e.g.: by tightening covers etc.).

- Keeping tools sharp to lessen frictional noise.
- Not dropping items, e.g: into skips, unnecessarily.

Any and all plant will be within noise regulation limits however, it is not envisaged that significant exposures to noise will be generated during the project.

Equipment and working methods will be selected to minimise the exposure of individuals to noise. Where necessary, suitable and sufficient ear defenders will be worn by operatives.

3.5 HAND ARM VIBRATION:

The Control of Vibration at Work Regulations 2005

[Hand Arm Vibration](#)

Where prolonged use of vibrating tools or where vibration exposure is likely to regularly exceed the action level for a particular tool/activity, the items listed below should be considered and implemented:

- Tool selection.
- Vibration Control; / Equipment Suppression
- Maintain Blood Circulation.
- Selection of Operatives.
- Training and Awareness.
- Health Surveillance.

ADHERANCE TO GENERAL SAFETY PROCEDURES:

Operatives of LDR LTD will always conduct their undertaking in a safe manner ensuring adherence to the following general safety procedures:

- To always conduct their undertaking in such a way as to ensure that people not in the employment of the contractor are not exposed to risks, i.e. members of the public, inspecting officers, other contractors.
- Consideration will be given especially when work is continuing on a client's premises and the requirements of the client will be followed at all times.
- LDR LTD will ensure the safety of their own employees at all times, including sub-contractors.
- To always ensure that work areas/sites are provided with safe means of access and egress and the general work areas are kept in a safe condition.
- To always ensure that only safe, well maintained, suitable plant and equipment is used.
- To always ensure that employees are given the necessary information, instruction and training to carry out contract works.
- To always ensure that safe systems of work or safety procedures are followed at all times.
- To always ensure the safe storage, handling and transport of materials.
- To always ensure that any accident occurring as a result of work being undertaken is reported to the person responsible for monitoring the work/site, i.e: the client.

- To always ensure adherence to any site safety requests/orders issued by the monitoring officer.
- To provide when requested additional safety method statements for specific works.
- To provide when requested risk assessments of any specific work procedures.

To always ensure that dangerous work/sites are secure and access to the public or other at risk persons is prevented. To always ensure that adequate, suitable and well-maintained personal protective equipment is available and used.

- To always ensure that any chemicals used are suitably assessed, utilised in the correct manner and stored correctly and that full compliance with the COSHH regulations are met. In addition, that no other persons are placed at risk as a result of the chemical use.
- To always ensure that any electrical equipment used is regularly checked and maintained by a competent person, and that only competent persons are used on site.
- To always ensure that all statutory records are kept up to date.
- To always ensure that scaffolds and access equipment is designed, constructed, erected, used and maintained and in accordance with current legislation, guidance, standards and where appropriate, manufacturers details.
- To always ensure the adequate provision of first aid facilities and welfare facilities.
- To always ensure that ladders, steps and trestles are suitable, well maintained and used in the correct manner.
- To always ensure adherence to the safety policy, safest systems and methods of work defined by LDR LTD
- To always ensure the workplace is left in safe condition and without risks to fellow workers and the public.
- Only 110-volt electrical equipment will be used on this project

SPECIFIC SAFE WORKING METHODS: LADDERS, MOBILE TOWERS & LIGHTWEIGHT STAGING SAFETY

This safe working method has been produced in consideration of the following risks associated with the use of ladders and lightweight staging on site:

- Falls from height of persons and material.
- Mobile towers tipping over.

These associated risks can be categorised as high risk and as a result LDR LTD will ensure effective implementation of this safe working method to control the risk so the risk level can be considered as medium to low and acceptable. The Site Manager will hold records confirming monitoring this system of work will be monitored continuously by to ensure full compliance on site for the duration of this contract.

3.6 SAFE USE OF LADDERS, LIGHTWEIGHT STAGING AND MOBILE TOWERS:

- LDR LTD will ensure that only Class 1 industrial ladders in a good condition are used on site, a central ladders inspection register is held by LDR LTD, regular safety inspection of ladders and trestles will be undertaken on site prior to and during use by employees.

Ladders will only be used where they are the most appropriate means of access, where work is prolonged, difficult or requires the freedom of movement, other more suitable means of access will be utilised, i.e. scaffold. Heavy loads will not be carried up ladders.

- Ladders will only be used on solid firm ground; ladders will be fixed or lashed where practicable at the top and if not at the base. If this is not possible, ladders will be footed. Ladders will extend at least 1.05m above the landing place and an overlap of at least 4 rungs will be allowed for extending ladders. **Ladders will only be used as a last resort for short term duration works.**
- Ladders will not be used where the base is close to excavations or unstable ground and will not be placed against fragile surfaces or fittings.
- LDR LTD will ensure that the working position of a ladder is not less than five rungs from the top of the ladder.
- All operatives using ladders, and mobile towers will utilise tool belts and hard hats to reduce the risk of falling material. Operatives of LDR LTD will wear safety footwear
- In high pedestrian or vehicular traffic areas, the area surrounding the ladder should be barriered off in a suitable manner.
- The correct ladder angle will be used at all times by employees of LDR LTD i.e. 1:4 “one out for every four up”.
- Where ladders are used in a run measuring a vertical distance of more than 9m, suitable landing areas will be provided

- The HSE Guidance Safe Use of Ladders, stepladders and trestles GS31 will be followed and adhered to at all times for the duration of the construction activity.
- Mobile tower scaffolds will be used in the correct manner, erection shall be as per the manufacturer's instructions manual and shall only be erected on firm level ground, outriggers and brakes will be utilised at all times. Only persons with correct accreditation will be allowed to erect tower scaffolds.
- Safe means of access and egress from the tower scaffold will be maintained, for example, internal ladders. Employees will not climb the exterior of any tower for access.
- All mobile towers will have suitable guardrails and toe boards complying with the requirements of the CDM regulations, part 4, and intermediate guardrails will be installed, as necessary.
- When possible, mobile tower scaffolds will be tied to the structure ensuring greater stability
- Employees will wear tool belts and hard hats in the vicinity of the scaffold; access in the area surrounding the mobile tower will be taped off where risk of encroachment of vehicles or pedestrians is apparent. No man riding of mobile towers will be allowed.
- Mobile towers will only be used by suitably competent trained employees and the HSE Guidance Note GS42 Tower Scaffolds will be followed and adhered to at all time.
All equipment used, that is, mobile towers, ladders, trestles, will comply with the requirements of the Provision and Use of Work Equipment Regulations 1998.

All of these methods of work and this overall safe system at work will be applied to all projects and will be subject to the supervision and monitoring of the site activities by the foreman and site manager of LDR LTD.

3.7 SPECIFIC SAFE WORKING METHODS – ELECTRICAL SAFETY:

This safe working method has been produced in consideration of the following risks associated with the use and provision of electricity on site:

- Electrical shock, burns, electrocution
- Electrical fire/explosion

These associated risks can be categorised as high risk and as a result LDR LTD will ensure effective implementation of this safe working method to control the risk so the risk level can be considered as medium to low and acceptable. The Site Manager, to ensure full compliance on site for the duration of the works, will monitor this system of work continuously. The Site Manager will hold records confirming monitoring.

SAFE USE OF ELECTRICITY ON SITE:

- All electrical plant and equipment provided by LDR LTD will be suitable for its purpose and will be maintained and kept in good working order. Records of maintenance will be held on file, portable electrical equipment shall be regularly tested and inspected as required and as defined in HSE Guidance (PAT Tested) Reference HSG107 - visual check before use and formal inspection once per month, full electrical test 3 monthly.

-
- All damaged electrical equipment will be taken out of service immediately and repaired by a competent person.
- All electrical services, equipment and systems supplying and being used on site will comply with the requirements of the Electricity at Work Regulations, that is, LDR LTD will ensure that:
 - All systems will be of such construction so as to prevent, so far as is reasonably practicable, any danger
 - All work activities, on or near a system, including operation, use or maintenance including installation, shall be carried out so far as is reasonably practicable so as not to give rise to any danger to any persons or in the vicinity of the electricity system.
 - Any equipment provided to protect people while they are at work on, or near, any electrical equipment shall be suitable for use and properly maintained
- All temporary site electrical supplies including site accommodation supplies, shall be inspected and maintained at regular intervals as laid down by I.E.E. Wiring Regulations 18th Edition, that is, a 3-monthly inspection.

A competent person independent from the project and test records will be kept on site shall carry out these inspections.

- All on site electrical equipment shall be 110V low voltage where reasonably practicable, where 240V supplies are required R.C.D.'s (Residual Current Devices) will be utilised, equipment and supplies will be subject to the previously detailed maintenance and inspection criteria (RCD's will be tested daily).
- Adequate means of isolation of electrical equipment will be provided and this will be secure with locked facilities
- The electricity supply authority will be contacted prior to the construction phase and all necessary information obtained, i.e. site supplies, earthing requirements, fuse ratings at source of supply, underground cables information.
- Any underground electrical services will be confirmed, and route marked, and the HSE Guidance HSG47 - Avoiding danger from underground services, will be followed and adhered to, that is - reference to existing supply drawings, client information, use of cable avoidance tools and safe digging methods. The supply authority 'Safe to Dig' number will be contacted prior to any excavations.
- The gas supply authority and British Telecom will also be contacted prior to excavations in identified 'Risk Areas'
- LDR LTD will ensure only competent persons are appointed and responsible for electrical supplies and equipment on site and that these persons have the training, experience and knowledge necessary to ensure electrical safety on site.
- In higher risk areas, i.e. waterlogged sites or confined spaces, pneumatically powered tools will be used, battery operated tools may also be used in these circumstances. In intrinsically safe areas only intrinsic equipment will be used.
- LDR LTD will ensure handover and commissioning work is carried out with minimal risk to contractors and users of the premises. All information regarding handover, 'live areas' will be provided to all site personnel in good time by regular meetings. Secure means of isolation will be maintained; all pertinent information will be passed on to the client and other relevant parties regarding plant and equipment. All relevant sub-contractors will attend site-commissioning meetings.

Temporary electrical supplies will be minimised during plant commissioning and adequate supervision and monitoring of the process will be ensured. No system will be made live until the system is safe to be made live, circuits not in use will be secured and isolated as will switch rooms/main boards, etc. Any live working procedure or any other electrical work carried out will follow the guidance laid down in HSG85 - Electricity at Work: Safe Working Practices.

All of these methods of work and this overall safe system at work will be applied to all projects and will be subject to the supervision and monitoring of the site activities by the foreman and site manager of LDR LTD Limited.

