CONSTRUCTION PHASE

Health and Safety

Morgan Sindall business unit / region:	**Construction Central, Birmingham**		
Project name:	**Thomas Telford University Technical College**		
Project no.:	**TM21Y007**		
Customer:	**Secretary of State for Education**		
Location:	**Cambridge Street, Wolverhampton, West MidlandsWV10 0JR**		
Revision no.:	**C**	**Date:**	**09/02/2021**

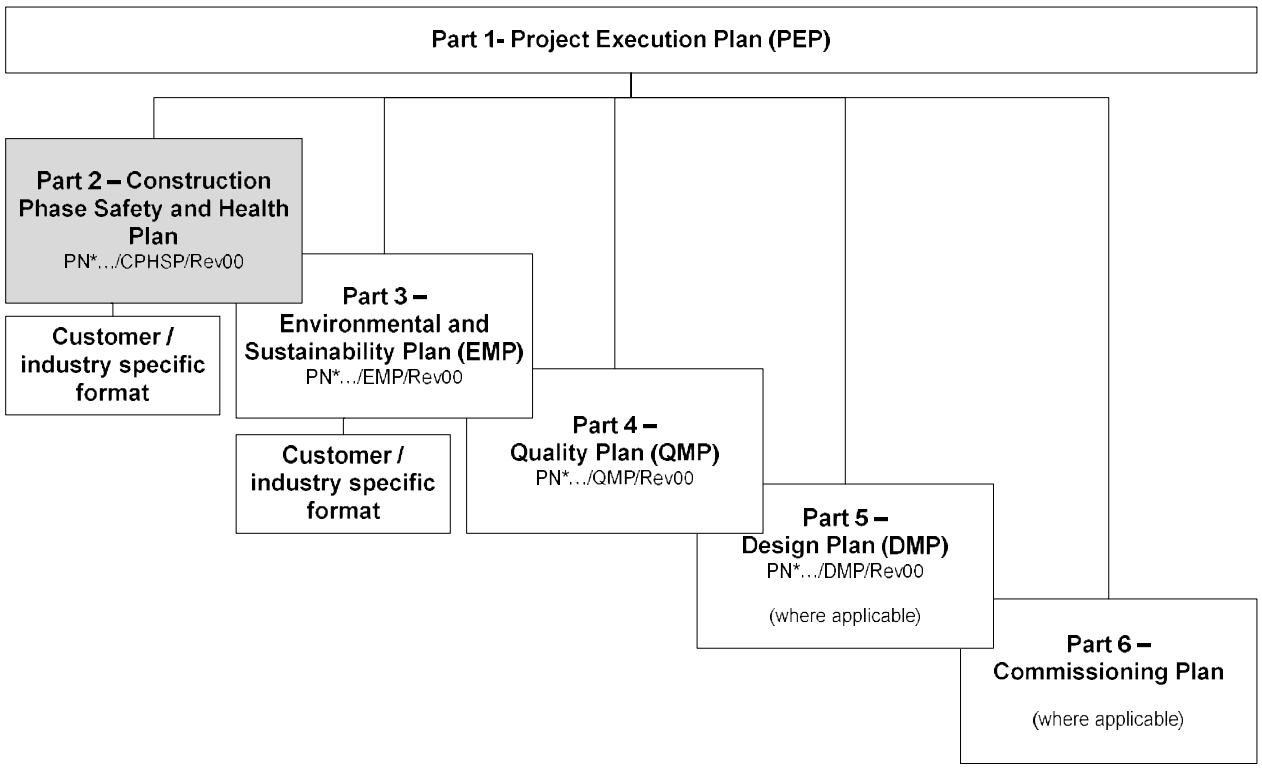
For full revision schedule see section one of Project Execution Plan (PEP) Part 1.

Construction Phase Health and Safety Plan (CPHSP) - overview

This document will define how specific health and safety management elements of the contract will be delivered.

Each box represents the parts of the whole PEP. Only in exceptional circumstances will a PEP consist of less than four documents.

* PN = Contract or project no.
(Update revision nos. as required)



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Appendices

1. Introduction

1.1. Pre-amble – the following information is contained within PEP Part 1

- Pre-construction information
- Project directory
- Contract organisation and staff responsibilities
- Communications
- Risk management
- Knowledge transfer – good practice / lessons learnt.

1.2. Purpose of this plan

This CPHSP when read with the core module (PEP Part 1) meets the requirements of the Construction Design and Management (CDM) Regulations 2015 with regard to the construction phase health and safety plan. This plan describes how safety aspects of the contract will be managed. It is a live document that will be reviewed at regular intervals by the contract manager to reflect progress of the works and changes in health and safety requirements.

The plan conforms to Morgan Sindall's health and safety policy objectives which will be clearly displayed in site offices.

The plan is concerned with the overall management control of all health and safety aspects in the execution of the contract. Subcontract works are also subject to this plan.

Morgan Sindall is certified to ISO 45001 and its company Integrated Management System (IMS) complies with that standard.

This plan is a 'live document' to be supplemented and/or revised as the project develops, by the introduction of supporting documents such as subcontractor method statements, risk assessments or any documentation relevant to the safety, health and environment of the project, which may include:

- Appropriate legislation
- Corporate governance
- Morgan Sindall policies
- Customer requirements (to include stakeholders)
- Company processes and procedures (amend as necessary)
- Methodologies and programmes
- Organisational structures
- Supply chain requirements.

1.3. Authorisation

This plan is authorised when the preparation, approval, authorisation and distribution section on page 1 of the PEP (Part 1) is completed.

Legal and other requirements

The project will meet its legal requirements through compliance with any planning, local authority, enforcement agency conditions and to all relevant legislation. Updates will be made available to the project team by Morgan Sindall intranet.

Specific requirements as detailed in pre-construction information pack shall be incorporated into this plan. This includes:

Management of the Construction Work

The Principal Contractor must ensure compliance with all relevant legislation, approved codes of practice and best practice. The plan of work should be developed in consultation with the contractors who will be affected by it, and the Principal Contractor should request any additional information required from the Client's team for the plan through the Principal Designer.
The Principal Contractor shall submit the construction phase plan and details of the welfare arrangements to the Principal Designer for review at least one week before the intended commencement date. A copy of the vetting sheet to be used by the Principal Designer in this respect is included in Appendix C. The Principal Contractor shall not commence any work on site (including site set up) until he

has received written confirmation from the Client that his construction phase plan and welfare arrangements are satisfactory.
Detailed proposals for the following shall be included in the plan submitted:

- Site layout plan;
- Site access plan;
- Traffic management plan;

The Principal Contractor is expected to review and revise the construction phase plan as necessary throughout the construction period. It should be noted the Regulations do not require such revisions to be approved by either the Client or Principal Designer. This however will be an agenda item during site visits and audits.

1.4. Integrated Management System (IMS)

The company's IMS is designed to meet the contract objectives in the core module (PEP Part 1).

An explanation of the Morgan Sindall IMS is on the Morgan Sindall intranet.

This plan sets out the SHE standards to be achieved and the means of continuous improvement by the process of review and where appropriate revision.

1.5. Contract details

These are described in PEP Part 5.

2. Health and safety management

The key high-level objective of the contract, as stated in core module (PEP Part 1), is to deliver the customer's contract on time, to budget and without incident or complaint.
The key health and safety objective is to complete the contract having achieved the objectives of the company's health and safety policy, the primary message of which is '100% Safe'.

2.1. Roles and responsibilities

All members of the contract team have responsibility for elements of health and safety appropriate to their function, experience and seniority. The contract manager has overall responsibility for delivering the contract objectives.

2.2. Risk assessments and method statement (RAMS)

No activity will be permitted without an approved RAMS.

The project management team shall produce risk assessments where significant risks are identified.

2.3. Site specific RAMS

Site specific RAMS will be carried out by appointed and competent personnel on site. A register of method statements and associated risk assessments will be kept on site and reviewed.

Method statements shall be task specific, identify tasks, responsible personnel, control measures and monitoring arrangements in line with Morgan Sindall method statement tracking and content sheet. Method statements will be assessed, tracked and accepted by Morgan Sindall prior to commencement of work. The contents of the method statement will be communicated to all those undertaking and associated with the work activity.

Contractors shall hold a signed copy at the work face while the works are taking place ensuring all operatives have read, understood and signed stating they will comply with the method statement.

A schedule of work activities and their current status is maintained via the RAMS schedule which is updated and retained within the project / site management filing system. The schedule template is included at Appendix C.

Change control for systems of work

A change control will have significant repercussions with respect to the prevention or control of accidents and may require changes in the measures taken to ensure that those risks remain as low as reasonably practicable.

Whether a change has significant repercussions will depend on the degree to which it:

- Introduces a new hazard
- Changes the risk from an existing hazard
- Affects control or mitigation measures (including off-site emergency plans).

Changes that have a positive impact on the risk profile are also important.

Morgan Sindall has in place systems for the communication of changes and any changes to approved systems of work shall be agreed in writing.

3. Safety and occupational health controls

Morgan Sindall has in place within the IMS. The 'Creating a Safe and Sustainable Environment' document that set the minimum standards that must be applied.

3.1. Accident and incident reporting (including learning event and near miss reporting)

In the event of an accident or incident occurring and depending on its nature, the process detailed in SH PRO2 should be followed.

All accidents and significant incidents, including those involving contractors, must be recorded in the site accident book and entered on SHEQ Tracker within 24 hours. All incidents MUST be reported to the SHEQ department.

Records of accidents or incidents reportable under the Reporting of Incidents Diseases and Dangerous Occurrences Regulations (RIDDOR) are confidential and must be stored securely on site.

Should the public or a utility be involved in an accident or incident, ensure that public liability claim forms are completed if necessary. All near misses and learning events MUST be reported to the SHEQ department.

Reports

The SHE advisor shall maintain records of all accidents, incidents and investigations and compile a monthly report for the management team.

Asbestos

Prior to any work, maintenance or demolition on existing buildings, the project manager will check that a survey has been carried out to identify any Asbestos Containing Materials (ACM's). In accordance with the SH PRO5.

Key details of asbestos survey reports or asbestos management plan will be communicated to all personnel to include where any asbestos is located, that it has been clearly labelled, or has been removed by a licensed contractor prior to the commencement of the construction / demolition works.

All persons on any project where ACM's have been identified, will attend recognised asbestos awareness training.

Morgan Sindall must only use licensed contractors when dealing with notifiable asbestos in line with company standards. Morgan Sindall will ensure that they obtain relevant information, including appropriate Asbestos survey reports, and carry out checks before beginning work where asbestos is or may be present.

3.2. Certification of plant operators

Before being allowed to work, operators of plant must present proof of competence, e.g. CPCS, IPAF cards for entry into site file records. Periodic checks of competencies will be carried out by contract supervisors.

3.3. Confined spaces

Work in a confined space can be a high risk activity. Therefore, entry to an identified confined space will be avoided whenever feasible. When this cannot be avoided, no work will be started until a RAMS is approved. In addition, no work will start until the relevant permit to work has been issued. Emergency and rescue personnel and equipment must be in place before work starts.

The calibration of equipment to test the atmosphere of confined spaces must be regularly checked in accordance with manufacturers' instructions.

3.4. Control of Substances Hazardous to Health (COSHH) and Asbestos

Morgan Sindall utilises industry leading company Sypol for the generation of specific COSHH assessments. Assessments will be administered by an appointed Sypol coordinator for the contract.

Site supervisors will ensure that assessments for all substances are available to those who may come into contact with them and that they have been made aware of those assessments. If no assessment exists, then one must be obtained using the Sypol form in line with the company standards.

Design works shall only be assigned to competent and resourced designers who shall be assessed to confirm their ability to comply with the principles set out in the CDM regulations and in accordance with Morgan Sindall supply chain procedures.

Further information on management control of design can be found in the DMP Part 5 of this PEP.

3.5. Demolition

Generally considered a high-risk activity, demolition will be conducted strictly in accordance with Codes of Practice for Demolition and Health and Safety Executive (HSE) guidance. RAMS will be produced prior to work being undertaken.

3.6. Electrical supplies and equipment

The design, installation, use and maintenance of electrical systems and equipment will be in accordance with company standards SH PRO4.

An electrical duty holder will be appointed for the project and identified on notice boards, distribution boards and sub-stations.

In every case where work must be carried out on electrically isolated equipment it will be carried out under a permit to work procedure. This procedure is mandatory to all Morgan Sindall employees and designated subcontractors.

Contractors should only use 110v electrical tools or battery powered devices.

No 240v tools are to be used unless no other alternative exists, and only then with suitable electrical protection. All extension leads must be properly terminated with the appropriate plugs / sockets and be otherwise un-jointed.

Contractors must demonstrate that they meet all of the requirements of the Provision and Use of Work Equipment Regulations 1998 (PUWER) and have a means of indicating, (eg by labelling), that where appropriate equipment has been Portable Appliance Testing (PAT) tested / examined.

3.7. Excavations and services

No works will commence until details of overhead and buried services likely to affect those works are either obtained from service providers or by direct investigation. Details will be available as plans, drawings, cross sections and other information.

All excavations will be done following the relevant Morgan Sindall process standards and guidance. Service and cable avoidance will be carried out according to HSG47 and Morgan Sindall standards SH PRO7 and SH6 STD1. The precautionary principle will apply where there is uncertainty about buried services.

A permit to break ground will be used before beginning any excavation including trial holes and investigation.

If suspect material is discovered in an excavation, the supervisor will stop work, record and investigate the occurrence and agree actions before continuing.
The use of specialist equipment and explosives for excavations must be the subject of specific risk assessment and controls and consultation with the relevant SHE team.

3.8. Emergency arrangements

Morgan Sindall will appoint an emergency co-ordinator, this will normally be the project manager and will be identified within the site induction along with deputising arrangements.

The emergency co-ordinator will be responsible for:

- Production of the fire and emergency plan (Appendix E)

- Ensuring that suitable individuals are appointment to fill key positions under the emergency plan
- Arrange drills and exercises to ensure the effectiveness of the plan
- Review and update the plan as conditions change
- Ensure any equipment essential to the operation of the plan is tested and maintained.

Out of hours contact protocol will be to contact the below in the following order:

1. James Lawley – Senior Project Manager
2. Julian Price – Operations Director
3. MS Regional Office – 0121 3291 500

3.9. Fire precautions

The project manager will appoint a fire co-ordinator who will ensure that a fire risk assessment is made, that emergency preparedness against fire is adequate and that a fire safety plan is in place (Appendix E).

The fire co-ordinator will complete the emergency arrangements and review this on a regular basis referring deficiencies to the site / project manager for action.

Site inspections of emergency arrangements against fire will be carried out not less than fortnightly.

Where fire escape routes are long, involve stairs, buildings have multiple occupancy, or may be used by the disabled or the general public, fire drills will be carried out not less than annually.

3.10. Hand Arm Vibration Syndrome (HAVS)

Morgan Sindall has adopted a HAVS strategy, guidance is given in the IMS. This strategy will be taken into consideration when using equipment that could potentially cause HAVS.

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
- Maintain blood circulation
- Selection of operatives
- Training and awareness
- Health surveillance.

3.11. Health and safety rules

Site health and safety rules shall be included in the site start up pack and developed for the project by the contract manager in conjunction with the SHE advisers. Rules will be posted on site notice boards and explained at induction.

Site rules will cover as a minimum:

- Policies including substance abuse
- Access and egress
- Personal Protective Equipment (PPE)
- Mandatory instructions
- Site boundaries
- Training and competence
- Authorised persons
- Safe methods of work
- Traffic management
- Waste
- Visitors.

Client Site Specific Rules – extracted from the pre-construction information pack July 2020

3.1 Standards and Objectives

The Department for Education take health and safety responsibilities very seriously and seek to achieve excellence in accident prevention. Compliance with legislation and industry standards is considered the minimum to be achieved. The objective is

to complete the works with no incidence of injury or ill-health to those moving around the external site areas including members of the public with no adverse effect on the environment.

The project specific health and safety goals are:

- *Establish and maintain health and safety standards through effective planning, management and co-ordination of the scheme;*
- *Identify and eliminate significant risks at the earliest possible stage and to effectively manage any residual risks;*
- *Zero fatalities;*
- *Zero injuries to members of the public;*
- *No permanently disabling injuries;*
- *No long-term harm to health;*
- *Aiming for a zero AFR (Accident Frequency Rate)*
- *No contaminant release from asbestos*

3.2 Site Safety Rules

Before the start of operations on site, the Principal Contractor is required to produce good site safety rules and maintain good order (Regulation 18 of the ACOP). Such rules will be expected to cover elements in the foregoing sections of this Plan where site safety rules are appropriate including requirements for other stakeholders including car parking and fire escape egress and must include a procedure in the event of fire, accident or similar emergency occurrence. The site rules should also prohibit the parking of the site vehicles other than in designated areas and require the wearing of protective headgear and all other appropriate personal protective clothing and equipment.

The Principal Contractor shall disseminate the site rules to all parties during the site induction which is to be undertaken by a competent person.

The contractor must include a method statement to deal with the Asbestos risk.

3.3 Communications and Co-ordination Requirements

Reference the contract documents for a schedule of meetings.

3.4 Compound and Welfare Provisions

The proposed welfare facilities shall be fully detailed in the Construction Phase Plan and shall comply with Schedule 2 of CDM 2015. Prior to commencing work on site the Principal Contractor shall agree with the Client the location for site welfare.

3.5 Site Security

It is anticipated that all facilities will be located within a secure area segregated from the general public. Given that the new build works and the refurbishment and remodelling works are to be undertaken adjacent to an operational UTC, arrangements must be made to ensure all intrusive works undertaken throughout the day must be backfilled before the end of the working day.

3.6 Traffic Management

The Principal Contractor shall incorporate within his Construction Phase Plan the arrangements by which the works will be carried out without affecting the traffic movements within the confines of the UTC. This shall include parking of vehicles, location of welfare, pedestrian walking routes, etc The Principal Contractor is to include in his Construction Phase Plan a traffic management plan to show the layout of traffic and pedestrian routes, welfare location and all storage and lay down areas – to be agreed with the Client.

3.7 Emergency Procedures / Means of Escape / Fire Prevention

The Principal Contractor is required to provide the Client with information about the specific emergency procedures to be adopted during the construction phase. This will include arrangements for working and non-working hour periods. These arrangements will also need to consider communication with the UTC in case of an emergency.

Emergency contact details for Client and Principal Contractor to be provided at the start up meeting.

3.8 Permit to Work and Authorisation Requirements

It is the responsibility of the Principal Contractor, before carrying out construction operations giving rise to significant risks, to ensure that any required permits-to-work are raised within their own approved system and those set up by the Client, with the conditions of the permit having been properly communicated to the supervisors and operatives directly undertaking the tasks. Any perceived shortcomings in the availability of such information should be immediately communicated to the Project Manager and Principal Designer.

3.9 Smoking, Drugs and Alcohol Restrictions

The Principal Contractor and the Contractors on site will be expected to invoke and clearly identify strict guidelines and procedures in respect of drugs and alcohol use through both induction and within the Construction Phase Plan. The Client is to advise whether smoking is permitted on site.

Construction Phase Health and Safety Plan (CPHSP) – (PEP Part 2)

Minimum rules are contained in the Morgan Sindall 'Creating a Safe and Sustainable Environment' document.

3.12. Health surveillance

Risk assessment will identify circumstances when health surveillance is required (unless already identified by existing legislation) and should it be deemed necessary; an occupational health surveillance programme will be undertaken. Occupational health surveillance for individuals undertaking high risk activities will include screening for any or all of the following:

- HAVS
- Noise induced hearing loss
- Manual handling
- Dermatitis from onsite operations
- Repetitive strain injuries.

Additional health issues may arise as a result of COSHH assessments and or individual situations. Such surveillance will be conducted as identified by risk assessment.

3.13. Health and safety file

In compliance with CDM Regulations, the health and safety file will be developed throughout the contract in a format agreed by relevant parties early in the contract.

The contents of the health and safety file may include:

- A brief description of the work carried out
- Residual hazards and how they have been dealt with
- Key structural principles incorporated in the design of the structure
- Any hazards associated with the materials used
- Information regarding the removal or dismantling of installed plant and equipment
- Health and safety information about equipment provided for cleaning or maintaining the structure
- The nature, location and markings of significant services, including firefighting services
- Information and as-built drawings of the structure, IT plant and equipment.

3.14. Hot works

Works that generate heat or sparks that could create risk of fire require issue of a hot works permit and the provision of fire extinguishers and emergency arrangements.

3.15. Housekeeping

All site personnel will be responsible for maintaining a clean and tidy site that poses no unnecessary slip, trip and fall hazards and presents an acceptable visual impression to the workforce, visitors and the general public.

Material and equipment will only be delivered to site as required to reduce the required storage space.

Failure of contractors to maintain standards may result in work being undertaken on their behalf and those contractors being recharged accordingly.

Time will be allowed within the detailed programme of works to ensure that housekeeping is afforded high priority and each section of the works is left clean, neat and tidy at the end of each work shift. An end of shift inspection regime will be implemented.

3.16. Site induction

Morgan Sindall will prepare a site-specific induction for this project.

The purpose of this induction is to:

- Familiarise individuals with the health and safety requirements of the project
- Establish procedural controls specific to the project
- Specify any permits to work
- Identify emergency arrangements
- Instruct on accident reporting
- Identify site specific safety rules
- Identify significant hazards at the worksite.

This induction will be delivered to all Morgan Sindall employees, subcontractors and visitors on site. Records of this induction will be maintained within the site safety file.
All visitors to site whether invited or not, must identify themselves to the project manager attending site prior to entering the worksite. The project manager must ensure that all such visitors are in possession of the relevant certification, site equipment (including PPE) and are fully inducted and briefed before accessing the work location.

3.17. Interfaces with visitors, the public and others

Interfaces between site activities, visitors and the public will be considered when developing the site plan, planning points of site ingress / egress and works outside the site boundaries to ensure that site operations do not endanger visitors and the public. Such consideration will apply to others such as the customer's personnel who may need access to or through the site.

The following measures to protect the public from site activities will be taken:

- Designated material delivery lane.
- Mitigate the need for any reversing on the highway.
- Full time traffic marshal to meet and greet ALL material deliveries
- Secure hoarding around the welfare compound and the construction site
- Prominent safety signage
- Steel mesh pedestrian and vehicular gates, all of which will open inwards, to allow full sight of approaching traffic and pedestrians.
- CCTV/ security system to be utilised
- Road sweepers will be used as and when required to ensure that the highway is kept clean.

3.18. Lifting operations

All lifting operations will be planned and authorised in accordance with company processes, standards and guidance SH PRO9. The Operations/Contracts manager must appoint a Responsible Person (Lifting) and record this appointment on the relevant appointment form.

Where applicable the contract manager will appoint a competent appointed person for cranes and a crane supervisor.

All lifting machinery, equipment and gear must be checked prior to use and on arrival to site. This will include the use of piling rigs.

Checks and inspections of lifting plant and equipment will be recorded in the site register.

3.19. Lone working

Lone working must be avoided whenever feasible. If it cannot be avoided, a specific risk assessment and method statement for the activity is required, to include the arrangements for lone working.

3.20. Manual handling

Manual handling risk assessments must be carried out prior to manually lifting a load and must include load weights and dimensions. Methods of assessing the risks of manual handling and consideration to alternative methods will be considered where practical.

Construction Phase Health and Safety Plan (CPHSP) – (PEP Part 2)

3.21. Material storage and distribution

The storage of materials will be planned before the site is established to meet logistical and safety requirements and to ensure that wastage of materials through poor storage, damage or theft is minimised.
Suitable and adequate means of distributing materials about the site when needed will be planned beforehand.

3.22. Mechanical plant

Site plant and equipment operated by Morgan Sindall will be subject to Planned Preventative Maintenance (PPM) scheme.

Records of plant inspections will be maintained on site and will be available for inspection.

Plant and equipment operated by contractors must be similarly maintained in line with legislation and Morgan Sindall minimum standards.

Details of plant and equipment operators shall be maintained and evidence of periodic checks from plant hirers that the plant has been adequately maintained shall be obtained.

3.23. Monitoring and inspection

Safety performance and compliance will be assessed regularly. Records of audits, inspections and visits undertaken will be available on site.
Some Morgan Sindall business units, such as Utilities have a number of monitoring records specific to their operations.

Project Monitoring Schedule				
	Frequency			
Type of monitoring	**Daily**	**Weekly**	**Monthly**	**Annual**
Senior Management SHE tours			X (to be arranged by senior managers)	
SHE meetings			X	
Liaison / stakeholder meetings (i.e. with school)		(Every 2 weeks)		
Contractors (safety / co-ordination) meetings			X	
Project progress meetings			X	
SHE Cross regional audit				X
SHE Inspections – (SHE team)			X	
SHE Inspections – contractors (self-audit)			X	
SHE Inspections – client	TBC			
SHE Inspections – (site team)		X		
SHE Monthly return			X	
Safety committee (VOICE)			X	
Emergency procedure drills			X	
Safety awareness talks		X		
100% Safe toolbox talks / briefings			X	

3.24. Noise

If work environments are likely to exceed occupational action levels specific noise assessments will be carried out prior to commencement of works.

Potential sources of noise on this project include:

- Ground works operations. For example, the cutting of steel reinforcement etc.

- Delivery and offloading of materials.
- Plant operations for external works.
-
- Scaffold erection and dismantle.
- Fixing of external window systems.
- Fixing of external cladding.
- Operations associated with installation of internal finishes.

3.25. Occupational health monitoring and surveillance

Requirements for occupational health monitoring will be assessed on a task specific basis and in line with the Morgan Sindall company policies process, standards and guidance. Risk assessments may identify circumstances when additional health surveillance is required (unless already identified by existing legislation).

3.26. Permits to work

The use and issue of permits shall be in accordance with Morgan Sindall permit to work systems and contract specific requirements.

Risk assessments will identify operations or areas where permits to work are required as part of the control procedure. Only qualified and competent persons are to operate and be employed on 'permit to work' systems. These include for this project:

- Permit to break ground
- Permit to lift
- Hot works operations
- Entry into confined space
- Work on non-isolated electrical equipment
- Work on isolated electrical equipment
- Out of hours supervision
- General permit (eg roof access / work in occupied premises)
- Use of ladders and step ladders.

3.27. Personal Protective Equipment (PPE)

Morgan Sindall will supply to and ensure the use of PPE by all employees and visitors. Contractors will be required to supply PPE to their own personnel to the minimum requirement noted:

- Safety helmet
- Light eye protection (LEP)
- Gloves
- Safety footwear
- Hi vis coat, jacket or vest (where there are plant movements or as directed by the project manager)

The issue of PPE will be recorded.

Other PPE required will be specified in activity RAMS.

3.28. Piling operations

Piling operations by an approved contractor must be managed in line with Morgan Sindall company policies, process, standards and guidance.

3.29. Pressurised systems

Pressurised system can contain potential energy that may be released under certain conditions. When working on pressurised systems specific risk assessments and precautions will be taken.

3.30. Road works
All road works will be carried out in line with current legislation and where applicable "The Traffic Signs Manual Chapter 8".

3.31. Safety training
Specific health and safety training will be identified in the contract specific training and competence plan.

Where required, site supervision will arrange for safety training associated with specific tasks such as abrasive wheel training. Records of all task specific training whether delivered on or off site will be recorded.

The project manager will ensure that United Kingdom Contractors Group (UKCG) standards of competence for persons employed on Morgan Sindall projects are achieved, ie working towards 100% CSCS or equivalent.

3.32. Scaffolding
The project team will ensure that scaffold is erected in accordance with BS EN 12811, the CDM regulations 2015, National Access and Scaffolding Confederation (NASC) Guidance SG4:10, company standards and temporary works requirements.

3.33. Site office safety
A contract specific risk assessment for the site office and welfare facilities will be carried out. This will identify any specific hazards and controls to be adopted at that location. The PM STD8 site establishment and welfare will be in accordance with the Morgan Sindall minimum standards document in the IMS.

3.34. Site security
Security arrangements which require consideration, include but not limited to:

- Site boundary.
- Compound.
- Site offices and welfare facilities.
- Plant / equipment.
- Fixed and Un-fixed materials.
- Third parties.
- Unauthorised trespassers.
- Fuel.

The contract specific arrangements are:

- A combination of CCTV security cameras & motion detection cameras will be located around the compound and the construction site. These cameras will always be monitored remotely . The remote monitor will have the ability to communicate remotely with any trespasser, and will notify the local police force of any incidents

3.35. Smoking
Morgan Sindall does not allow smoking in any building or vehicle. Dedicated smoking areas on this project include:

- The dedicated smoking & vaping area will be located in the site compound:
- Smoking shall not be permitted on the site in any other areas.

3.36. Statutory notices
Morgan Sindall will obtain the F10 notification from the client.

The contract manager will arrange for a copy of the following to be posted on site notice boards:

- F10 notification to HSE.
- Health and safety law - what you should know poster.
- Employers liability insurance certificate.
- Fire action notice.
- First aid notice.
- Site specific safety rules.

3.37. Steel erection

Steel erection will be carried out by a specialist contractor approved via our contractor approval process and will be subject to an acceptable RAMS and to proper supervision and control.

3.38. Temporary works

Temporary works will be co-ordinated by an appointed Temporary Works Co-ordinator (TWC) who will be responsible for ensuring that the planning, erection, use, maintenance and dismantling of temporary works is undertaken in line with Morgan Sindall temporary works process and as agreed with the relevant Temporary Works Manager (TWM). A temporary works schedule produced at tender stage will be reviewed and updated at regular intervals.

Details shall be listed in the appropriate method statements.

A detailed RAMS including calculations and designs, and pre and post loading checks will form the control measures for all defined temporary works which are required for the execution of permanent works or temporary structures ie not directly connected with the permanent works.

3.39. Traffic management

All areas of work that involve vehicle movements and the interface with personnel will have a Traffic Management Plan (TMP) (Appendix F). The TMP will be managed by an appointed person who will act as the Traffic Management Co-ordinator (TMC).

The site layout will be planned to provide safe segregation between plant, vehicles and pedestrians wherever practical. The reversing of site plant, vans and lorries will be avoided if possible but where this is necessary will be under the supervision of a vehicle banksman / controller.
Car parking arrangements and access routes will be clearly identified in the plan. Particular consideration will be given to the delivery, loading and offloading of materials.

Visitors, public protection and interface with others

Measures will be developed as required to ensure the protection of the public / client staff which will be continually reviewed as work progresses. Security and public protection will be achieved as follows:

- Hoarding and signage in accordance with client / Morgan Sindall standard requirements
- Traffic management 'best practice'
- Security arrangements.

Enter further site specific details.

3.40. Welfare and first aid

Morgan Sindall will provide welfare and first aid that exceed the minimum standards of welfare set by legislation in line with IMS standards and guidance.

Welfare facility	Quantity	Type / comments
Offices	4 No	Open plan offices on 1st floor level
Drying room	1 No	Secure unit on the ground floor of the modular units
Lockers	20 No	Located within the drying room

Construction Phase Health and Safety Plan (CPHSP) – (PEP Part 2)

Staff & Visitor Toilets – male	0	Toilets	0	Trough Sink	0	Trough Urinal	0
Operatives Toilets – male	4	Toilets	1	Trough Sink	1	Trough Urinal	1
Staff & Visitor Toilets – female	0	Toilets	0	Sinks	0	Sanitary disposal	0
Disabled Toilet – female	1	Toilets	1	Sinks	1	Sanitary disposal	1
Canteen unit	2	Open plan units on the ground floor					
Hot water for washing hands		Hot water for washing hands will be available at each of the sinks within the male and female toilets and the canteen.					
Drinking water supply		The provision of drinking water will be available as follows: - ▪ At the wash hand basins in the site canteen and staff kitchenette. ▪ A dedicated water dispenser will be available in each canteen.					
Means of boiling water	2no.	The provision of boiling water will be available as follows:- ▪ 1 no. instant hot water boiler in the site canteen. ▪ 1 no. instant hot water boiler in the staff kitchenette.					
Facilities for warming food	2no.	The provision of warming of food will be available as follows:- ▪ 1 no. microwaves in the site canteen. ▪ 1 no. microwaves located in the staff kitchenette.					
LEP cleaning station	2no.	The provision of light eye protection cleaning stations will be available as follows: - ▪ 1 no. in the site offices. ▪ 1 no at site entrance.					
Hand care & sun care station	2no.	The provision of hand care stations will be available as follows:- ▪ 1 no in the male toilet facility. ▪ 1 no in the female toile facility. ▪ 1 no in the canteen. The provision of sun care stations will be available as follows:- ▪ 1 no. sun screen station located in the canteen.					
Other	2no.	The provision of chilling food and drinks will be available as follows:- ▪ 1 no under counter fridge / freezers in the site canteen. ▪ 1 no under counter fridge / freezer in the staff kitchenette. The contents left within these fridge / freezers will be emptied and disposed of on a weekly basis. The site offices and welfare facilities will be cleaned on a regular basis Monday to Friday by a designated site cleaner. The provision of 2no. hand dryers available in the male and female toilets.					

Morgan Sindall will ensure that adequate numbers of first aid trained personnel and first aid kits are available at:

- All site locations
- In vehicles where this has been identified as necessary or good practice
- In strategic locations within office setups.

Facility	Size / quantity	Facility	Size / quality
First aid boxes	1 large	Eye washes	1
First aiders	4	Dowsing shower	1
Appointed persons	1 James Lawley	Stretcher	1
First aid room	1 (1st floor offices)	Other - state	

Posters are displayed stating location of first aid boxes, first aiders, appointed persons and action to be taken in case of an incident.

First aiders	
Name	**Certificate expiry date**
James Lawley	August 2021
Beth McGoff	June 2022

3.41. Working at height

Morgan Sindall will ensure that all areas that can be deemed as working at height has a suitable risk assessment and method statement in place. Working at height may include working from platforms, structures and or above excavations, shafts, manholes and voids.

3.42. Working near railways

N/A

3.43. Working over or adjacent to water

N/A

3.44. Work station (computer) assessments

Individuals working regularly with computers will be required to carry out an on-line assessment to ensure that posture and vision are not impaired by long-term use. This assessment will not be available for site audit. Contact the SHEQ department for further information.

Construction Phase Health and Safety Plan (CPHSP) – (PEP Part 2)

Appendix A Project specific health and safety objectives and targets

Objectives / targets	Control	Action / responsibility
Keep a Safe Environment for all Parties.	Constant review Daily check sheets	Beth McGoff
Aim for the Project to Achieve the Safety Performance Targets for 2020.	Constant review Daily check sheets	Beth McGoff
Ensure the Project Achieves SHEQ Objectives for 2020.	Constant review Daily check sheets	Beth McGoff

Appendix B Project risk assessment summary

Prepared in conjunction with the pre-construction information pack, risk register and other relevant information. The RAMS identified below may be prepared during the contract period.		Hazards			Risk assessment required			Method statement required		
Ref	**Trade / activity**	**Safety**	**Health**	**Environment**	**Y**	**N**	**N/A**	**Y**	**N**	**N/A**
1	Site establishment	√	√		√			√		
2	Tree Surgery						√			√
3	Temporary hoarding / fencing	√	√		√			√		
4	Demolition (general)						√			√
5	Demolition (asbestos removal)						√			√
6	Existing buildings adjacent to works	√	√		√			√		
7	Overhead services / obstructions						√			√
8	Underground services	√	√		√			√		
9	Contiguous & CFA Piling	√	√		√			√		
10	Excavations	√	√		√			√		
11	Haul road crossings on site	√	√		√			√		
12	Bulk earthwork	√	√		√			√		
13	Reduced level dig / imported fill	√	√		√			√		
14	Contaminated ground	√	√		√			√		
15	Environmental issues	√	√		√			√		
16	Working on public roads	√	√		√			√		
17	Working over / adjacent to water	√	√		√			√		
18	Working over / adjacent to railways						√			√
19	Concrete works and reinforcement	√	√		√			√		
20	Concrete repairs and finishings	√	√		√			√		
21	Erection of Steel Frame	√	√	√	√			√		
22	Scaffolding	√	√	√	√			√		
23	Erection of structures	√	√		√			√		
24	Welding and burning of steelwork	√	√		√			√		
25	Roof work and working near openings in floors	√	√		√			√		
26	Infilling floor openings	√	√		√			√		
27	Roof work (flat roofs)	√	√		√			√		
28	Roof structures (plates, trusses, timber)				√			√		

Construction Phase Health and Safety Plan (CPHSP) – (PEP Part 2)

29	Roof coverings (felt / baten / tile)						√			√
30	Balustrade Installation	√	√		√			√		
31	Partitions, plastering and ceilings	√	√		√			√		
32	Mechanical & Electrical Services	√	√		√			√		
33	Roof lights	√	√		√			√		
34	Partitions & Ceilings	√	√		√			√		
35	Joinery	√	√		√			√		
36	Floor Finishes	√	√		√			√		
37	Wall & Floor Tiling	√	√		√			√		
38	Decorations	√	√		√			√		
39	Bitumen waterproofing	√	√		√			√		
40	Highly flammable materials	√	√		√			√		
41	Installation of fire protection coatings (board)	√	√	√	√			√		
42	Installation of fire protection coatings (spray)	√	√		√			√		
43	Lift installation	√	√		√			√		
44	Electrical / mechanical services	√	√	√	√			√		
45	Plumbing works	√	√	√	√			√		
46	Carpentry / joinery	√	√		√			√		
47	Plastering/ rendering	√	√		√			√		
48	Ceiling fixing	√	√		√			√		
49	Floor and wall tiling	√	√		√			√		
50	Painting and decorating	√	√		√			√		
51	Nuclear densometers, thermal welders and lancers, high pressure (HP) water jetting	√	√		√			√		
52	Use of lasers	√	√		√			√		
53	Arc welding	√	√		√			√		
54	Radiography	√	√		√			√		
55	Commissioning plant	√	√		√			√		
56	Paving slabs, block paving, kerbs, edgings	√	√		√			√		
57	Roads / paths surfacing	√	√		√			√		
58	Fencing (permanent)	√	√		√			√		
59	Landscaping	√	√		√			√		
60	Tree surgery / use of chainsaws	√	√		√			√		
61	Fire prevention on site	√	√		√			√		
62	Fire prevention in offices	√	√		√			√		
63	Work in offices	√	√		√			√		
64	Young persons	√	√		√			√		
65	Cable pulling	√	√		√			√		
66	Working in chemical / radioactive situations	√	√		√			√		
67	Brickwork and blockwork	√	√		√			√		
68	Cleaning / builders clean	√	√		√			√		
69	Use of ladders	√	√		√			√		
70	Lead burning / plumbing	√	√		√			√		
71	Use of mobile elevating working platforms	√	√		√			√		

72	Unloading of vehicles	√	√		√			√		
73	Use of stepladders	√	√		√			√		
74	Traffic management	√	√		√			√		

Appendix C SHE RAMS schedule / evaluation template

NB This document to be retained and maintained up to date in site file 6. For the purposes of the initial acceptance of the SHE plan by the client, it is acceptable to include only the earliest packages and those relating to site set up, fencing etc. The live document will be updated and retained in SHE file 6 and not in the SHE plan.

SHE RAMS schedule / evaluation

The initial risk assessment is compiled in accordance with the programme of works. In the left hand column list those activities that will take place in the order that they appear on the programme.

Activity programme items to be listed below	Safety / health / environment		Assessment by*			Date required	Date prepared / received on site	Accepted by (name and date)	Remarks / revision no.
	Risk assessment	Method statement	MS	S/C	N/A				
Site security	√	√		√		TBC	TBC	TBC	
Key operatives undertakings	√	√	√			TBC	TBC	TBC	
Site office operations	√	√	√			TBC	TBC	TBC	
Temporary Site Services	√	√		√		TBC	TBC	TBC	
Tarmacadam	√	√		√		TBC	TBC	TBC	
Site accommodation and hoarding establishment	√	√		√		TBC	TBC	TBC	
Bulk Earthworks/ Cut & Fill	√	√		√		TBC	TBC	TBC	
Piling Mat	√	√		√		TBC	TBC	TBC	
CFA Piling & Contiguous Piling	√	√		√		TBC	TBC	TBC	
Drainage	√	√		√		TBC	TBC	TBC	
Attenuation Tank	√	√		√		TBC	TBC	TBC	
Underground Services	√	√		√		TBC	TBC	TBC	
Pile Cropping	√	√		√		TBC	TBC	TBC	
Integrity Testing	√	√		√		TBC	TBC	TBC	
Foundations	√	√		√		TBC	TBC	TBC	
Steel Erection	√	√		√		TBC	TBC	TBC	
Façade	√	√		√		TBC	TBC	TBC	
Safety Nets	√	√		√		TBC	TBC	TBC	

Construction Phase Health and Safety Plan (CPHSP) – (PEP Part 2)

Edge Protection	√	√		√		TBC	TBC	TBC	
Masonry Brick/Block work	√	√		√		TBC	TBC	TBC	
Hot Melt Roof	√	√		√		TBC	TBC	TBC	
Rain water goods	√	√		√		TBC	TBC	TBC	
Curtain Walling	√	√		√		TBC	TBC	TBC	
Scaffold	√	√		√		TBC	TBC	TBC	
Mechanical – pipework	√	√		√		TBC	TBC	TBC	
Mechanical – ventilation	√	√		√		TBC	TBC	TBC	
Mechanical – lagging	√	√		√		TBC	TBC	TBC	
Mechanical – underground mains water	√	√		√		TBC	TBC	TBC	
Mechanical Plumbing	√	√		√		TBC	TBC	TBC	
Electrical Containment	√	√		√		TBC	TBC	TBC	
Electrical 2nd Fix	√	√		√		TBC	TBC	TBC	
M&E Commissioning	√	√		√		TBC	TBC	TBC	
Roof lights	√	√		√		TBC	TBC	TBC	
Lift Installation	√	√		√		TBC	TBC	TBC	
Joinery	√	√		√		TBC	TBC	TBC	
Partitions & Ceilings	√	√		√		TBC	TBC	TBC	
Floor Finishes	√	√		√		TBC	TBC	TBC	
Wall & Floor Tiling	√	√		√		TBC	TBC	TBC	
Balustrades	√	√		√		TBC	TBC	TBC	
Decorations	√	√		√		TBC	TBC	TBC	
Cleaning	√	√		√		TBC	TBC	TBC	
Block paving	√	√		√		TBC	TBC	TBC	
Landscape	√	√		√		TBC	TBC	TBC	
Any activity that has a significant risk shall have a risk assessment accepted prior to work starting.									

Construction Phase Health and Safety Plan (CPHSP) – (PEP Part 2)

Appendix D Construction programme

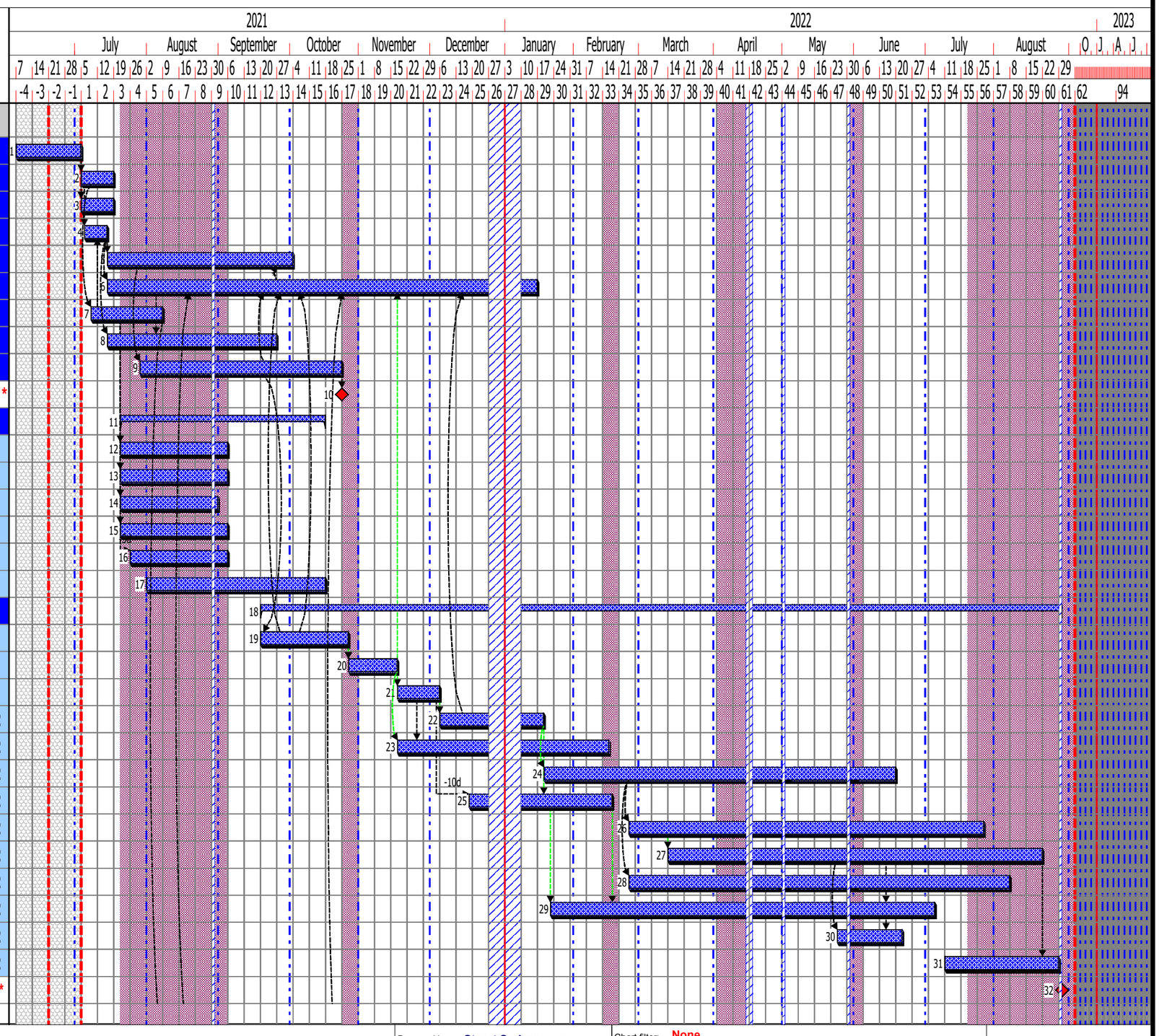
Project for:
Department for Education

Thomas Telford UTC

RIBA Stage 3 - Construction Programme

MORGAN SINDALL

Line	Name	Start	Duration	Finish
	CONSTRUCTION			
1	MOBILISATION	07/06/2021	4w	05/07/2021
2	ON SITE ESTABLISHMENT	05/07/2021	2w	16/07/2021
3	OFFSITE COMPOUND	05/07/2021	2w	16/07/2021
4	SITE PREPARATION	06/07/2021	1w 2d	14/07/2021
5	RETAINING WALLS	15/07/2021	11w 1d	01/10/2021
6	MAIN DRAINAGE	15/07/2021	24w 1d	14/01/2022
7	SERVICE DIVERSION (SENSITIVE)	08/07/2021	4w 2d	06/08/2021
8	NEW SOCIAL SPACE	15/07/2021	10w 1d	24/09/2021
9	ALL WEATHER PITCH	29/07/2021	12w 1d	22/10/2021
10	All Weather Pitch Complete	22/10/2021		22/10/2021 *
	REFURBISHMENT	21/07/2021	12w 2d	15/10/2021
12	RECEPTION	21/07/2021	6w 2d	03/09/2021
13	KITCHEN	21/07/2021	6w 2d	03/09/2021
14	SCIENCE (SPLIT CLASSROOM)	21/07/2021	5w 4d	31/08/2021
15	SCIENCE (CLASSROOM CONVERSION)	21/07/2021	6w 2d	03/09/2021
16	CONTROL ROOM (TECHNICIAN STORE)	26/07/2021	5w 4d	03/09/2021
17	AUDITORIUM (CONSTRUCTION WORKSHOP)	02/08/2021	10w 4d	15/10/2021
	SPORTS BUILDING	20/09/2021	46w 1d	30/08/2022
19	SUBSTRUCTURE	20/09/2021	5w 2d	26/10/2021
20	STEEL FRAME	27/10/2021	3w	16/11/2021
21	SUPERSTRUCTURE	17/11/2021	2w 3d	03/12/2021
22	GROUND FLOOR SLAB	06/12/2021	4w 2d	18/01/2022
23	ROOF	17/11/2021	11w	15/02/2022
24	ELEVATIONS	19/01/2022	20w 4d	20/06/2022
25	INTERNAL BLOCKWORK	17/12/2021	6w 4d	16/02/2022
26	FIT OUT - FIRST FLOOR	24/02/2022	21w	27/07/2022
27	FIT OUT - GRD FLOOR	14/03/2022	22w 1d	22/08/2022
28	SPORTS HALL	24/02/2022	22w 3d	08/08/2022
29	PLANTROOMS	21/01/2022	22w 4d	06/07/2022
30	LIFT INSTALLATION	25/05/2022	3w 4d	21/06/2022
31	FINAL COMMISSIONING	11/07/2022	7w	26/08/2022
32	Sports Hall Building Completion	30/08/2022		30/08/2022 *



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Comment :

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Prepared by: Stuart Scrimgeour

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Prog No: TM21Y007

Rev: G

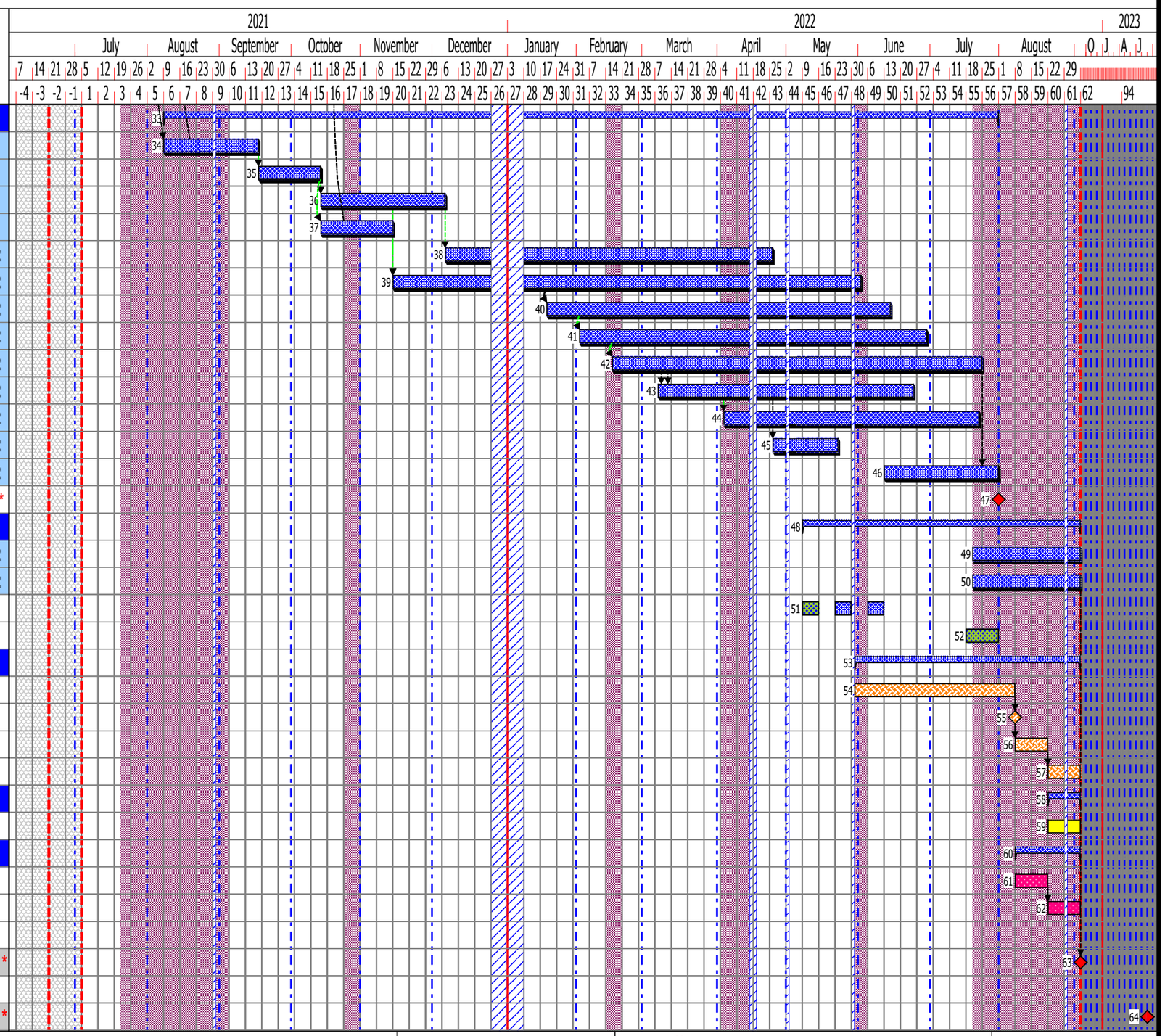
Project for:
Department for Education

Thomas Telford UTC

RIBA Stage 3 - Construction Programme

MORGAN SINDALL

Line	Name	Start	Duration	Finish
	TEACHING BUILDING	**09/08/2021**	**48w**	**29/07/2022**
34	**SUBSTRUCTURE**	**09/08/2021**	**5w 3d**	**16/09/2021**
35	**STEEL FRAME**	**17/09/2021**	**3w 4d**	**13/10/2021**
36	**SUPERSTRUCTURE**	**14/10/2021**	**7w 3d**	**06/12/2021**
37	**GROUND FLOOR SLAB**	**14/10/2021**	**4w 2d**	**12/11/2021**
38	**ROOF**	**07/12/2021**	**17w 3d**	**25/04/2022**
39	**ELEVATIONS**	**15/11/2021**	**25w 4d**	**02/06/2022**
40	**FIT OUT - SECOND FLOOR**	**19/01/2022**	**20w 1d**	**15/06/2022**
41	**FIT OUT - FIRST FLOOR**	**02/02/2022**	**20w 2d**	**30/06/2022**
42	**FIT OUT - GROUND FLOOR**	**16/02/2022**	**21w 4d**	**25/07/2022**
43	**STAIRCASE 1**	**08/03/2022**	**14w 4d**	**24/06/2022**
44	**STAIRCASE 2**	**05/04/2022**	**14w 4d**	**22/07/2022**
45	**LIFT INSTALLATION**	**26/04/2022**	**3w 4d**	**23/05/2022**
46	**FINAL COMMISSIONING**	**13/06/2022**	**7w**	**29/07/2022**
47	**Teaching Building Completion**	**29/07/2022**		**29/07/2022 ***
	REFURBISHMENT PHASE 2	**09/05/2022**	**16w 3d**	**02/09/2022**
49	**CHANGING ROOMS - PUPIL ENTRANCE**	**20/07/2022**	**6w 2d**	**02/09/2022**
50	**FITNESS STUDIO - SCIENCE ROOM**	**20/07/2022**	**6w 2d**	**02/09/2022**
51	Loose Furniture Installation - Teaching Building	09/05/2022	3w	10/06/2022
52	Loose Furniture Installation - Sports Hall	18/07/2022	2w	29/07/2022
	DOCUMENTATION	**31/05/2022**	**13w 3d**	**02/09/2022**
54	Compilation of H&S File incl Operation & Maintenance Manual	31/05/2022	9w 4d	05/08/2022
55	Issue DRAFT H&S File incl Operation & Maintenance Manual	08/08/2022		08/08/2022
56	Client Review Period	08/08/2022	2w	19/08/2022
57	Final Update and Issue of H&S File incl Operation & Maintenance Manua	22/08/2022	1w 4d	02/09/2022
	TRAINING & FAMILIARISATION	**22/08/2022**	**1w 4d**	**02/09/2022**
59	Demonstration & Training	22/08/2022	1w 4d	02/09/2022
	DECANT / FIT OUT	**08/08/2022**	**3w 4d**	**02/09/2022**
61	Teaching Building	08/08/2022	2w	19/08/2022
62	Sports Hall	22/08/2022	1w 4d	02/09/2022
63	**Practical Completion**	**02/09/2022**		**02/09/2022 ***
64	**End of Defects Period**	**01/09/2023**		**01/09/2023 ***



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Construction Phase Health and Safety Plan (CPHSP) – (PEP Part 2)

Appendix E Fire and emergency plan

Contents

1. Organisation

1.1. Prior to work commencing, the project manager should nominate a fire safety co-ordinator who will liaise with the emergency services, providing contact names and a location plan of access points to the site.

1.2. The project manager should develop fire and emergency procedures and ensure that all personnel are aware of them.

1.3. The project manager should complete the emergency telephone numbers in appendix 1 and in case of fire posters and display both in prominent positions in offices and canteens.

1.4. The project manager should arrange for regular inspections and maintenance of all emergency equipment, and to record the findings on the appropriate form.

1.5. Key appointments

Fire Safety Co-ordinator: James Lawley

Fire Marshall's: Beth McGoff

Project manager to ensure those appointed have received appropriate training and that fire safety co-ordinator has access to copies of Fire Safety in Construction Work (HSG168) and Joint Code of Practice for Fire Prevention and Construction Sites.

2. Fire arrangements

2.1. Information extracted from pre-construction information pack; particularly relating to client requirements: -

The Principal Contractor shall take all necessary precautions to prevent fires from occurring and to minimise effects should there be a fire. The Principal Contractor should work in accordance with the HSE publication "HSG 168 Fire Safety in Construction". A site plan setting out the site enclosure, including the extent of fencing around the site, the proposed parking locations for contractors, the proposed skip locations and all emergency muster points should be provided. The Principal Contractor shall draw up emergency procedures for the site, which should be explained during the site induction and posted on the site notice board.

Escape stairs will be constructed as a priority and put into use as soon as they are safe to use – emergency signage and lighting is available.

A temporary wireless WES fire/ emergency alarm system will be used during the entirety of the construction stage of the project. Fire muster points and alarm sounders will be placed across the floor plates and site compound. The WES base system will be in the site office

A fire hydrant is available on Cambridge Street – the location of this hydrant is detailed on the appended fire plan. A site water supply will also be available at a central location on each floor plate, and in the site compound.

With regard to Pupils and Staff evacuating from the existing UTC, crowd barriers will segregate the emergency access route around the perimeter of the site. In addition, in the event of an emergency pupils and staff will escape via the nearest emergency escape exit, with a safe route planned and managed by Morgan Sindall at all times. The plans and route will be communicated to TTUTC staff responsible for emergency evacuation. All amendments will be communicated before they change. Morgan Sindall will develop a procedure where both MS and TTUTC can co-ordinate evacuation in the event of an emergency – this will include the use of a combined alarm system.

Morgan Sindall will employ an expert to undertake an emergency risk assessment before work commences

2.2. Combustible waste

Work areas will be continually cleared as and when generated throughout the working day. Debris and waste will not be left to accumulate such that it poses a safety hazard on site. Colour coded wheelie bins will be placed across each floor plate and attendant labour will continuously empty these bins.

Waste material arising from the works will be removed when the wheelie bins are filled, or at the end of each working shift. Waste materials will not be left in the building overnight

2.3. Flammable substances / liquids and Liquid Petroleum Gas (LPG)

Diesel and gas will be stored on this project.
Diesel will be used in the main by the groundworks, piling, telescopic forklift & façade contractors.

All diesel will be stored in a double bunded secure tank, with spill kits available.
Gas will be used by the M & E contractor.

Cylinders should be stored in the open air on a concrete surface. Flammable liquids, combustible, corrosive, oxidising materials, toxic materials or compressed gas cylinders will be kept separate from LPG containers. Containers will be stored with their valves uppermost and will be contained within a locked mesh storage cage.

These liquids will be stored away from vehicle routes. No ‘hotwork’ will be allowed in the vicinity of the storage tank and the tank will be positioned away from any source of direct heat.

2.4. Temporary protective coverings

Exposed and finished materials will only be installed once the correct environment is achieved on site

Exposed steelwork, doors frames, balustrade, doors, glass, floor finishes, curtain walling, IPS, vanity units, cubicles, radiators, toilet pans, wash hand basins will all require protection. Morgan Sindall will

develop a comprehensive material protection plan. Protection will be installed by Morgan Sindall operatives and specialist sub-contractors.

Protection will ONLY be installed once the works have been accepted by Morgan Sindall. Removal of protection will only be permitted once the risk of damage is no longer.

2.5. Ignition sources

Smoking / vaping will only be permitted in the designated shelter located in the site compound, by the site offices and welfare facilities.

The use of halogen lights is not permitted on site, all emergency and task lighting will be low voltage LED lighting.
All temporary task lights provided by sub-contractors and their operatives will be of the LED type only.

The use of naked flame equipment and tools will require a hot works permit to be issued. The sub-contractor / operatives undertaking the works will be required to follow good housekeeping procedures, A one-hour fire watch is to be implemented and monitored on site by the appointed Fire Safety Co-Ordinator.

The use of spark producing equipment e.g. angle grinders, chop saws etc. will require a hot works permit to be issued. The sub-contractor / operatives undertaking the works will be required to form a designated cutting area, if practicable, to provide fire blankets / screens to prevent the spread of sparks and designated Co2 and dry powder fire extinguishers. A one-hour fire watch is to be implemented and monitored on site by the Fire Safety Co-Ordinator.

24-hour security will be utilised on this project. Throughout the working day, access to the project will be controlled by secure turnstile access. The vehicular gates will always be locked shut, other than when deliveries are being made. The site will be monitored by a comprehensive CCTV security system during non-working hours.

2.6. Hot works procedures

Hot work permits will be required be used on the project. These permits will be produced, implement and monitored on site by the Fire Safety Co-Ordinator.

3. General fire precautions

3.1. Information extracted from the pre-construction information pack

The Principal Contractor shall take all necessary precautions to prevent fires from occurring and to minimise effects should there be a fire. The Principal Contractor should work in accordance with the HSE publication “HSG 168 Fire Safety in Construction”.
The Principal Contractor shall draw up emergency procedures for the site, which should be explained during the site induction and posted on the site notice board.

A Fire Plan will be required as part of the Construction Phase Plan.

3.2. Fire points

Fire muster points will be located in the site compound, throughout the floor plates and on the roof of both the teaching block and sports hall buildings.

Construction Phase Health and Safety Plan (CPHSP) – (PEP Part 2)

This project will use the WES + system. The WES + system is a class 1, EN54 complaint system with an interlinked fire alarm which includes audible and flashing strobes.

The fire points will be established in the site offices / welfare facilities as soon as work commences on site, and once the floor plates have been established.

The positions of fire points which will be on a drawing contained in appendix E.

Fire muster points for the existing school are shown on the plans located in the playground and the all-weather pitch

3.3. Inspection and maintenance of firefighting equipment

The fire points will be visually inspected by the Fire Safety Co-Ordinator on a weekly basis with the inspection date and time recorded.

The servicing of the fire extinguishers will be in accordance with BS 5306-3:2009. All extinguishers will be serviced annually.

3.4. Means of raising alarm

What type of alarms will be installed?

The WES + interlink fire alarm system will be installed with the provision of heat and smoke detectors as required throughout the construction site, the site offices & the welfare facilities.

The wireless interlink fire alarm system will be installed within the site offices, welfare facilities as soon as those facilities are established and operational on site. The alarms will be installed on site as soon as possession of the site is granted. The locations of the alarms will be reviewed on a regular basis, to suit the progress of the construction

Weekly checks on the WES + wireless interlink fire alarm will be undertaken by the Fire Safety Co-Ordinator with the test date and time recorded.

3.5. Emergency power and lighting

Temporary power and lighting will be provided by 10KVA transformers with 110v LED safety background and emergency lighting. 110v powerline with drop leads will be made available throughout the building, which will mitigate the issue of trailing leads.

Temporary power and lighting installed through duration of the project from the day of commencement and will be adapted by competent and trained operatives as and when required throughout the project.

The emergency power and lighting installation will be undertaken by a trained and competent sub-contractor, who will be NIC EIC approved contractors.

Weekly checks on the temporary electrics and lighting will be undertaken by the Temporary Electrics Co-Ordinator with the test date and time recorded.

3.6. Escape routes

Emergency escape routes are marked on the drawing (Appendix 2)

All emergency escape routes will always be kept clear of obstructions. The routes will always be well signed and lit. Escape routes will be regularly inspected by site management to ensure that they are kept clear at all times.

Escape routes will be continually tidied across the duration of the day. Debris and waste will not be left to accumulate, such that it poses a hazard. Plant and materials will not be permitted to be stored temporarily in the escape routes.
The appropriate signage will be displayed and or altered as necessary advising persons of the changes/ revisions made to the escape routes.

Haki access stair towers will be utilised as temporary escape access during the construction of the steel frame, composite floor and roofs. The permanent stairs will be utilised as escape routes once they become available and are safe to use.

Emergency escape routes will be reviewed on a regular basis and adapted to suit the evolving nature of the construction site. Any changes will be cascaded to the workforce through regular toll box talks undertaken by the site management team

Routes are shown on the drawing in appendix 2.

3.7. Temporary accommodation
Restrictions extracted from the pre-construction information pack: -

The Principal Contractor must ensure compliance with all relevant legislation, approved codes of practice and best practice. The plan of work should be developed in consultation with the contractors who will be affected by it, and the Principal Contractor should request any additional information required from the Client's team for the plan through the Principal Designer.
The Principal Contractor shall submit the construction phase plan and details of the welfare arrangements to the Principal Designer for review at least one week before the intended commencement date. A copy of the vetting sheet to be used by the Principal Designer in this respect is included in Appendix C. The Principal Contractor shall not commence any work on site (including site set up) until he has received written confirmation from the Client that his construction phase plan and welfare arrangements are satisfactory.

3.8. Facilities

Modular offices supplied by Elliot Hire will be used throughout the construction of the project.

As principle contractor, the welfare facilities will be provided by Morgan Sindall. The facilities are located more than 6 metres away from other buildings; therefore, no additional fire containment standards are required.

The WES + wireless interlink fire alarm will be installed which consists of both smoke and heat detectors.

Fire points in the site offices and welfare facilities will consist of 1 no foam fire extinguisher & 1 no carbon dioxide fire extinguisher.

Fire points in the staff kitchenette and site canteen will consist of 1 no foam fire extinguisher ,1 no carbon dioxide fire extinguisher and 1 no fire blanket.

No smoking is permitted within the site offices and or welfare facilities.

A dedicated smoking area will be located near to the site offices and welfare facilities and which will consist of the following: -

1 no 2.74m x 1.9m steel portable smoking shelter for persons who smoke traditional cigarettes and 1 no 2.74m x 1.9m steel portable smoking shelter for persons who smoke e-cigarettes.

4. Emergency arrangements

4.1. Action in event of a fire
In the event of fire, the person discovering the fire is to:

1. Shout for assistance and alert others nearby. Operate the nearest fire alarm to initiate the fire alarm sounders.
2. Call the fire service (from a telephone in a safe location) to give them details of the exact location and if known, the type and cause of the fire.

3. If the fire is still small (wastepaper bin size), attempt to extinguish it using the appropriate type of firefighting equipment and ONLY IF SAFE TO DO SO. If you find you cannot contain the fire, abandon firefighting and:
   a) If the fire is too big to tackle, leave the building by the safest route and await the arrival of the fire service
   b) When the fire service arrives, direct them to the site of the fire and give any other assistance that they ask. You may have COSHH data sheets for any chemicals etc. that may be present in the building
   c) Report information about the fire to the building management / security staff.

4.2. Action in the event of a fall from height

- **Rescue from any working area in height in relation to the building works.** The main access routes up and down the building will comprise staircases, either the permanent stairs or in the case of scaffold structures, proprietary staircases such as Layher and Haki. Stairs formed from scaffold components are also acceptable. Secondary means of access may comprise ladders at the correct angle and properly installed. However, a means of rescuing a stretcher bound casualty from any area or level using stairs will be the minimum standard.

- **Rescue from suspension in a safety harness.** There may be instances where the use of fall arrest safety harness systems will be employed. Whilst it is acknowledged that these are a last resort, second even to restraint systems, there is a likelihood of their use e.g. by scaffolders during scaffold erection / dismantling. Other suspension rescue means will be provided by Morgan Sindall in the form of Mobile Elevating Work Platforms (MEWP) and scaffold towers. The means of proposed rescue will change throughout the project according to activities ongoing at the time, but a means of rescue will always be available, with the aim of providing the quickest means possible to eliminate the risk of suspension trauma.

- **Rescue from personnel at height from safety netting.** The rescue provision for safety net containment will be agreed in advance of relevant work at height activities. It will comprise either scaffold tower or MEWP depending on other work requirements and ground / floor surface conditions. In the event that a person in the safety net could not climb out, the net would be cut from beneath whilst avoiding injury to the person in the net, and the person lowered onto the platform beneath.

- **Rescue from personnel at height on the tower crane.** N/A

Confined space rescue

- Entry into confined spaces would require rescue procedures and equipment and this is a requirement of the Morgan Sindall confined space entry permit. No such permit is to be issued without prior knowledge and involvement of the Morgan Sindall SHE adviser

- All rescue provisions are to be practiced on a basis to be determined subject to SHE adviser guidance.

4.3. Action in the event of a service utility failure
If a service utility (gas, electricity and water) to the building and surrounding area fails, contact the local facilities management and/or service provider as listed at the back of this fire and emergency plan.

4.4. Action in event of a water leak
On discovering a water leak:

1. Discover where the water is coming from

2. If the leak is not serious, place a suitable container to temporarily contain the leak and move or cover any materials, equipment or furniture to minimise water damage. Switch off or otherwise protect any electrical equipment or lighting that may be in danger of getting wet and thus becoming potentially dangerous to life

3. If the leak is serious and there are not visible means of stopping it or turning off the source, take necessary steps to minimise further damage as in step 2

4. Locate and isolate the source of the leak and take such measures as are necessary to contain the leak, or divert it from areas where it might cause damage

5. For mains water leaks on deeds to wash basin taps and Water Closet's (WC's) etc., isolate the supply at the nearest upstream stopcock

6. For hot water leaks, switch off the water heater and isolate the water intake at the upstream isolating stop valve to the water heater

7. For Low Pressure Hot Water (LPHW) or chilled water leaks switch off the pumps and shut isolated valves to the circuit. This has the effect of slowing the rate of water loss.

8. For sprinkler system leans isolate the nearest stop valve or the main sprinkler control panel

9. CAUTION: LPHW and Chilled Water (ChW) contain chemical inhibitors which may cause skin irritation. If splashed in the eyes – it must be washed out immediately. It may cause inflammation of the eye membranes.

4.5. Action in event of an explosion
In the event of an explosion due to gas leak, volatile fuel leak, (or by a bomb), on site staff should proceed as follows:

1. The responsible person should contact the emergency services – dial 999 or local arrangement. Inform them of a major incident due to explosion within / outside the building

2. South the alarm and evacuate the building / area as quickly as possible

3. Be aware of additional explosions

4. Ensure all access is freely available to emergency rescue services e.g. digital door lock codes

5. Assess the need for any further action to make the area safe from damaged services

6. Management staff is to inform the local HSE office of major incidents SH PRO 2.

4.6. Action in event of a structural failure
The requirement for action in event of structural failure is dependent on the cause and degree of failure and its effects.

1. In a catastrophic situation, with major structural collapse and severe damage, injury to public, etc., the worst case needs will be similar to that for an explosion

2. For a minor structural collapse however, the action may be restricted to cordoning off the area from the public until the structure is made safe

3. Project management staff and security staff must assess the needs according to the arrangements and act accordingly

4. Project management staff: inform the local HSE office of all incidents involving structural failure and accidents occurring within a public area, or when persons are injured.

4.7. Action in the event of a spill
Emergency spill response procedure is as follows:

- Stop work immediately and prevent any further spillage
- Eliminate any sources of ignition
- Assess the situation. Ensure that appropriate PPE is worn. Do not put yourself at risk
- Contain the spill has not entered any drains, ditches or watercourses
- Notify you line manager giving the following information:
  - Danger of entering drainage / water
  - Danger of environmental harm
  - Materials involved
  - Location of incident
  - Reason for pollution
  - Quantity involved

A SPILL RESPONSE KIT will be provided and located on your site and in the site compound, as appropriate.

Construction Phase Health and Safety Plan (CPHSP) – (PEP Part 2)

Emergency contacts and telephone numbers

Project:	Thomas Telford				
Address:	Cambridge Street, Wolverhampton, West Midlands			Post Code	WV10 0JR
Telephone no.:	TBC	Telephone no.:	TBC	Telephone no.:	TBC

Name	Role	Contact number
Morgan Sindall		
Richard Fielding	Area Director	07805 825 226
Julian Price	Operations Director	07816 319 199
James Lawley	Senior Project Manager	07813 529 511
Beth McGoff	Site Manager	07966 305 335
Nick Manley	SHE Adviser	07870 350 374
Jane King	Environment Manager	07812 961 914
Client		
Secretary of Stage for Education; DFE – Sally Pearson TTUTC – Avtar Gill	DFE Project Director TTUTC Head teacher	07775413215 01902 872180
Enforcing authorities		
HSE	19 Ridgeway, 9 Quinton Business Park, Quinton, Birmingham , West Midlands B32 1AL **Construction Division** Rose Court, 2 Southwark Bridge, London, SE1 9HS	0121 607 6349
Environment Agency (EA)	National Customer Contact Centre, PO Box 544, Rotherham, S60 1BY. 550 Streetsbrook Road, Solihull West Midlands, B91 1QU	T: 03708 506 506 - General Enquiries T: 0800 80 70 60 - Environment Incident Hotline T: 03708 502 858 - Hazardous Waste Registration
Local authority	Wolverhampton City Council, Civic Centre, St. Peter's Square, Wolverhampton, WV1 1SH.	T: 01902 551 155
Emergency Services		
Fire and rescue service	**Wolverhampton Fire Station** Merridale Street, Wolverhampton, WV3 0RE	T: 999 T: 0121 380 7555

Construction Phase Health and Safety Plan (CPHSP) – (PEP Part 2)

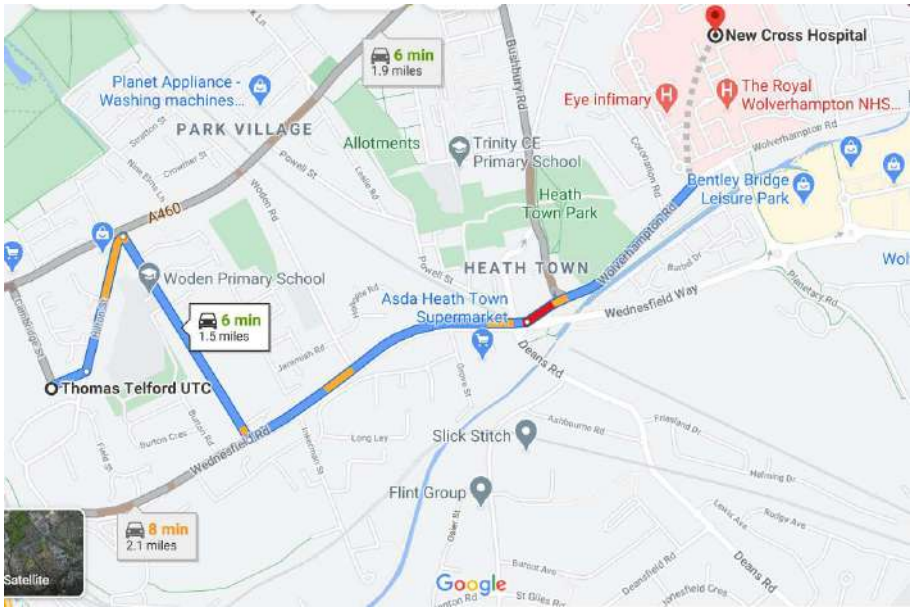
Ambulance service	**New Cross Hospital** Wolverhampton Road, Heath Town, Wolverhampton, WV10 0QP	T: 999 or 111 T: 01902 307999
Hospital (A&E)	**New Cross Hospital** **Wolverhampton Road,** **Heath Town,** **Wolverhampton,** WV10 0QP	T: 999 T: 01902 307999
Police	**Wolverhampton Police Station** **West Midlands Police:** Bilston Street, Wolverhampton, WV1 3AA	T: 999 or 112 T: 0345 113 5000
Other		
Gas	**Cadent Gas:** Ashbrook Court Prologis Park Central Boulevard Coventry CV7 8PE	**Emergency** T: 0800 111 999 (open 24 hours a day, seven days a week) Non-emergency T: 0345 835 1111
Electricity	**Western Power Distribution:** Avonbank, Feeder Road, Bristol, BS2 0TB	**Emergency** T: 0800 6783 105 (open 24 hours a day, seven days a week) General Information (9am-5pm) T: 0800 096 3080
Water / sewerage	**Severn Trent PLC:** Severn Trent Centre, 2 St John's Street, Coventry, West Midlands, CV1 2LZ	**Emergency** T: 0800 783 4444 (open 24 hours a day, seven days a week)
Telecom & Cable	**BT Openreach:** Head Office 81 Newgate Street, London, EC1A 7AJ	**Emergency** T: 0800 023 2023 (open 24 hours a day, seven days a week) General Enquiries T: 0121 423 5600
Telecom & Cable	**Virgin Media:** 500 Brook Drive, Reading, Berkshire, RG2 6UU	**Emergency** T: 0345 454 1111 (open 24 hours a day, seven days a week) General Enquiries T: 0345 454 1111

Fire plan drawings

Appended to the plan

Hospitals

New Cross Hospital, Wolverhampton Road, Heath Town, Wolverhampton, WV10 0QP.



Directions

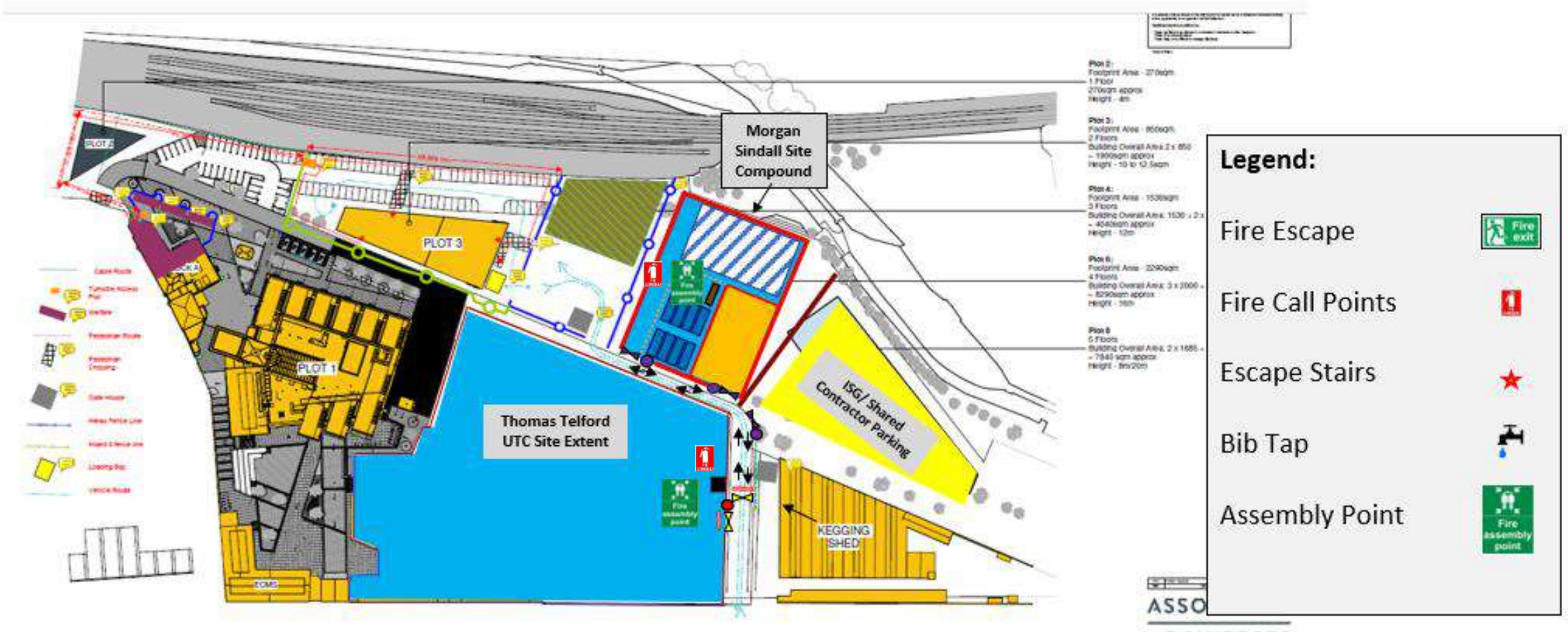
Thomas Telford UTC
Cambridge St, Wolverhampton WV10 0JR

- Head north-east on Water St towards Hilton Street
- Turn left onto Hilton Street
- Turn right onto Springfield Rd
- Turn left onto Wednesfield Rd/A4124
- Continue to follow A4124
- Turn left onto Wolverhampton Rd
- Arrive at: **New Cross Hospital**
- **Wolverhampton Rd, Heath Town, Wolverhampton WV10 0QP**

Project team emergency procedure

Link to SH PRO2 Accident and incident investigation and reporting

TTUTC Fire Emergency Plan – Assembly Points



TTUTC Fire Emergency Plan – Ground Floor

Legend:

Fire Escape	
Fire Call Points	
Escape Stairs	
Bib Tap	

TTUTC Fire Emergency Plan – First Floor

Legend:

Fire Escape	
Fire Call Points	
Escape Stairs	
Bib Tap	

TTUTC Fire Emergency Plan – Second Floor

Legend:

Fire Escape

Fire Call Points

Escape Stairs

Bib Tap

Construction Phase Health and Safety Plan (CPHSP) – (PEP Part 2)

Appendix F Traffic Management Plan (TMP)

1. Introduction

This plan describes the access / egress arrangements for vehicles and pedestrians onto the Thomas Telford UTC construction site; the movement of vehicles in and around site and the off-loading of stores and materials.

The plan will be regularly reviewed and revised to allow for the development of the site and the environment. This will be done by the manager with the responsibility for logistics with assistance from the project manager and project safety advisor.

2. Site description

The Site is located within the Springfield Brewery Development site owned by the University of Wolverhampton. The wider Development site is bounded to the west by the railway line on an embankment running north from Wolverhampton Station and to the east by Cambridge Street. The TTUTC site is bounded to the West by the development spine road leading to SOABE and to the East by Cambridge Street. a To the north is the development access road and a further development plot beyond and to the south the new courtyard providing access into SOABE.

An examination of old Ordnance Survey maps has shown that the Site, since the late 19th century, was occupied by Springfield Brewery which was operational until 1990. Following closure of the brewery, the Site was derelict until the commencement of the current redevelopment.

The TTUTC site is currently undeveloped with all buildings demolished. Adjacent land is being redeveloped to become the University of Wolverhampton Springfield campus.

3. Safe workplaces

a. Pedestrians and vehicle separation

Pedestrian routes will be clearly signed, well-lit and will be segregated from vehicular routes using suitable fencing.

A dedicated material & plant delivery lane will be vehicles only, except for the traffic marshals(s). This will be segregated form pedestrian routes using suitable demarcation and fencing/ barriers.

Just in time deliveries will be used. An on-line delivery booking system will be utilised throughout the project to ensure that deliveries arrive when the site is ready to accept them. Regular co-ordination and collaborative planning meetings will mitigate the risk of double handling of materials.

All loading and unloading of delivery vehicles are to be supervised by a trained and competent CPCS qualified banksmen / traffic marshal.

b. Public protection

All deliveries will be guided and banked in by the banksman on site.

Staff and patients walking to the adjacent buildings have been identified as vulnerable to vehicle operations. Vehicles will not be permitted to wait on Cambridge Street.

The gateman will undertake a brief site-specific induction with all delivery drivers. This induction will advise the following points:

- Site layout
- Welfare provisions
- Accident reporting & First Aid
- Hazards Specific to the Site
- Health & Safety Rules Specific to the Site
- Personal Protective Equipment
- Fire precautions and emergency procedures

The gateman will also direct and advise operatives / pedestrians / site visitors how to access and egress the works / site.

Changes to the site traffic and pedestrian routes will be communicated to all site operatives and visiting drivers via the traffic / pedestrian management plan displayed on site. The plan will be updated on a daily and or regular basis if there are no significant changes. This will be communicated to the workforce via toolbox talks.

4. Safe vehicles

a. Vehicle selection

There is no limitation on delivery vehicles, however access to the construction site will be limited to the designated delivery entrance only, which is located off Cambridge Street.

5. Safe driving and working practices

a. Reversing

Any reversing manoeuvres of delivery vehicles and or construction plant will be under the control of a trained and competent CPCS and or NPORS qualified banksman / vehicle marshal.

b. Loads

The unloading and loading of delivery vehicles will be predominately via the, Moffit's, Hiab's and or manually unloaded by hand.
If access is required to the rear of a flatbed delivery vehicle then the use of air bags, a fall arrest anchorage system, a vehicle fall prevention system or similar will be implemented.

c. Drivers / operator

All plant operators of construction plant must hold a CPCS / IPAF / and or an IPAF qualification.

Plant operators are required to present their current and valid CPCS IPAF / and or IPAF + cards in conjunction with the log book, to confirm the level and experience of when attending the site-specific induction.

Material delivery drivers are required to hold the either an ALLMI and or CPC qualification as a minimum to operate a hi-ab.

d. Signallers

Banksmen / slinger signallers / vehicle marshals are required to wear orange hi-vis vests as minimum to ensure that they can be clearly identified.

Communication will be via hand signals when banking / manoeuvring delivery vehicles and site construction plant.

Ensure that all drivers and banksmen / slinger signallers / vehicle marshals know and understand the access vehicle routes and traffic rules on site i.e. the site speed limit.

Banksmen / slinger signallers / vehicle marshals are required to wear orange hi-vis vests as a minimum to ensure that they can be clearly identified.

Communication will be via hand signals when banking / manoeuvring delivery vehicles and site construction plant.

Site layout plan

A site layout plan marked up with traffic routes and key installations is produced and displayed. It is regularly reviewed and forms part of the induction process. The layout will be well presented and easily understood by any persons. If necessary the information below maybe depicted on more than one layout.

Please refer to Appendix F – Traffic Management Plan

6. Managing construction transport – duty holders

A trained and competent traffic marshal will be employed by Morgan Sindall. A trained and competent site manager will act as deputy traffic marshal at all times.

7. Risk assessment

Summary of control measures to ensure safe site traffic routes should include:

	Vehicle routes	**Pedestrian routes**
Site entrance	Adequate sight lines, signs, maps, security and vehicle management procedures.	Separate entrance point, signs, and instructions.
Parking areas	Separate site vehicle, delivery and worker parking areas. Provide temporary lorry parking / holding area by the site entrance to manage deliveries and allow vehicles to turn away from site if not allowed to enter site.	Provide safe pedestrian routes from parking areas to offices, welfare facilities and workplaces. Provide clear signs and instructions to workers.

Construction Phase Health and Safety Plan (CPHSP) – (PEP Part 2)

Office and welfare facilities	Locate offices and welfare facilities and other areas of frequent pedestrian activity away from primary site traffic routes. Provide signs and pedestrians and vehicle control measures where vehicle routes cross pedestrian routes.	Provide safe pedestrian routes from parking areas to workplaces. Provide clear signs and instructions to pedestrians.
Primary traffic routes	Primary traffic routes should allow the safe passage of site and delivery vehicles away from pedestrian routes. Establish one-way systems where possible.	Establish primary pedestrian routes which provide safe access to work areas, away from main vehicle routes where reasonably practicable. Provide physical protection where pedestrians are at risk of being struck by vehicles or their loads. Establish crossing points and pedestrian control measures where necessary.
Secondary traffic routes	Define safe routes for all vehicle operations on site.	Provide protected pedestrian routes in areas where vehicles regularly pass.
Storage areas	Locate storage and loading areas away from areas of frequent pedestrian activity.	Provide separate pedestrian access, clear signs and instructions to workers.
Vehicle facilities	Locate vehicle washing areas, sheeting gantries and weigh bridges off primary vehicle routes.	Provide safe pedestrian access across vehicle routes to all places of work.

Construction Phase Health and Safety Plan (CPHSP) – (PEP Part 2)

Driver / operator rules

12 essential rules to safe use of vehicles

Zero tolerance – your licence to work

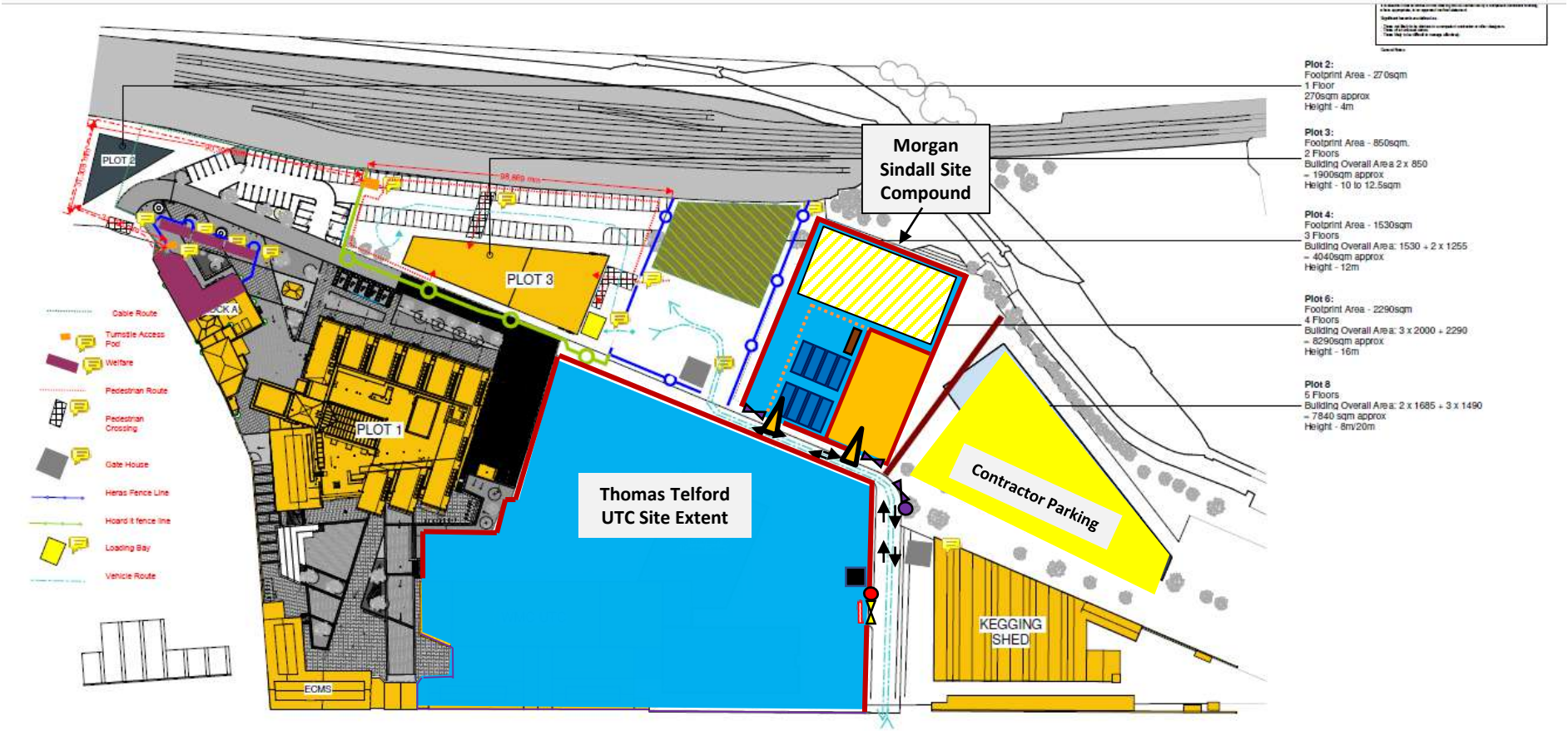
1. Used designated turning areas
2. Do not reverse unless absolutely necessary and then only with the assistance of a competent signaller
3. Use visibility devices when manoeuvring e.g. CCTV, mirrors
4. Ensure safe systems of work are followed
   - Use designated reversing areas
   - Fit and use radar proximity devices
   - Maintain communication and visibility with signallers during reversing operations
5. Use warning lights and alarms when reversing
6. Ensure site speed limit is maintained
7. Load and unload vehicles on level ground in areas away from passing traffic, pedestrians and overhead hazards
8. Only operate vehicles if you are competent and authorised to drive them
9. Carry out all daily checks on your vehicle and report defects immediately to your supervisor
10. Follow site procedures and comply with site rules
11. Do not allow passengers to ride on vehicles unless safe seating is provided
12. Ensure loads are safe and secure to transport.

Construction Phase Health and Safety Plan (CPHSP) – (PEP Part 2)

Hazard identification and control measures

Key hazard identified	Significant risk and who may be harmed	Control measures
Restricted site access	Striking pedestrians and operatives.	Establishment of segregated vehicle and pedestrian route onto and off the site. Refer to appendix A.
Restricted road and pedestrian access around the site	Striking site personnel and temporary / permanent structures.	Establishment of segregated vehicle and pedestrian routes around the site. Refer to appendix A Establish warning signs.
Site visitors	Being struck by vehicles.	Establishment of segregated vehicle and pedestrian routes around the site Refer to appendix A. Visitors must wear high visibility garments whilst out on site. All visitors must always be accompanied .
Steep gradients	Overturning vehicles – driver/personnel injury.	Select appropriate vehicles for site conditions. Keep gradients to a minimum.
Vehicles reversing in confined areas	Striking site personnel and other vehicles.	Where possible provide one-way route through the site to eliminate reversing. Vehicles must always have visual warning light on . Vehicles must have audible alarm warning when reversing. Trained banksman must be in attendance.
Vehicles being unloaded adjacent to the site gates	Injury to passing pedestrians.	Temporary road barriers must be erected when gates are left open. Banksman to be in attendance.
Site personnel	Site personnel being struck by vehicles.	Establishment of segregated vehicle and pedestrian routes around the site Refer to appendix A. Pedestrian routes must be identified by blue netting and signage etc. Operatives must wear high visibility garments whilst out on site. All site personnel must undergo a site safety induction before starting on site, which will cover vehicle segregation and site rules.
Vehicles entering and leaving site	Striking pedestrians, site personnel and other vehicles.	Security to control and monitor incoming and outgoing vehicles. All vehicles to be controlled by trained and competent banksmen. Vehicles cross over's to be constructed at all gates. Site hoarding erected around the exposed sections of the project to deny access to the general public.
Vehicles picking up mud on wheels	Leaving mud on the highways causing road traffic accidents and accidents to pedestrians.	Outgoing site vehicles must enter the wheel wash before leaving site. Excessive mud on wheels to be removed by jet wash. Drivers to check wheels for excessive mud before leaving site. Road Sweepers where applicable

Traffic Management Plan - Overview



KEY

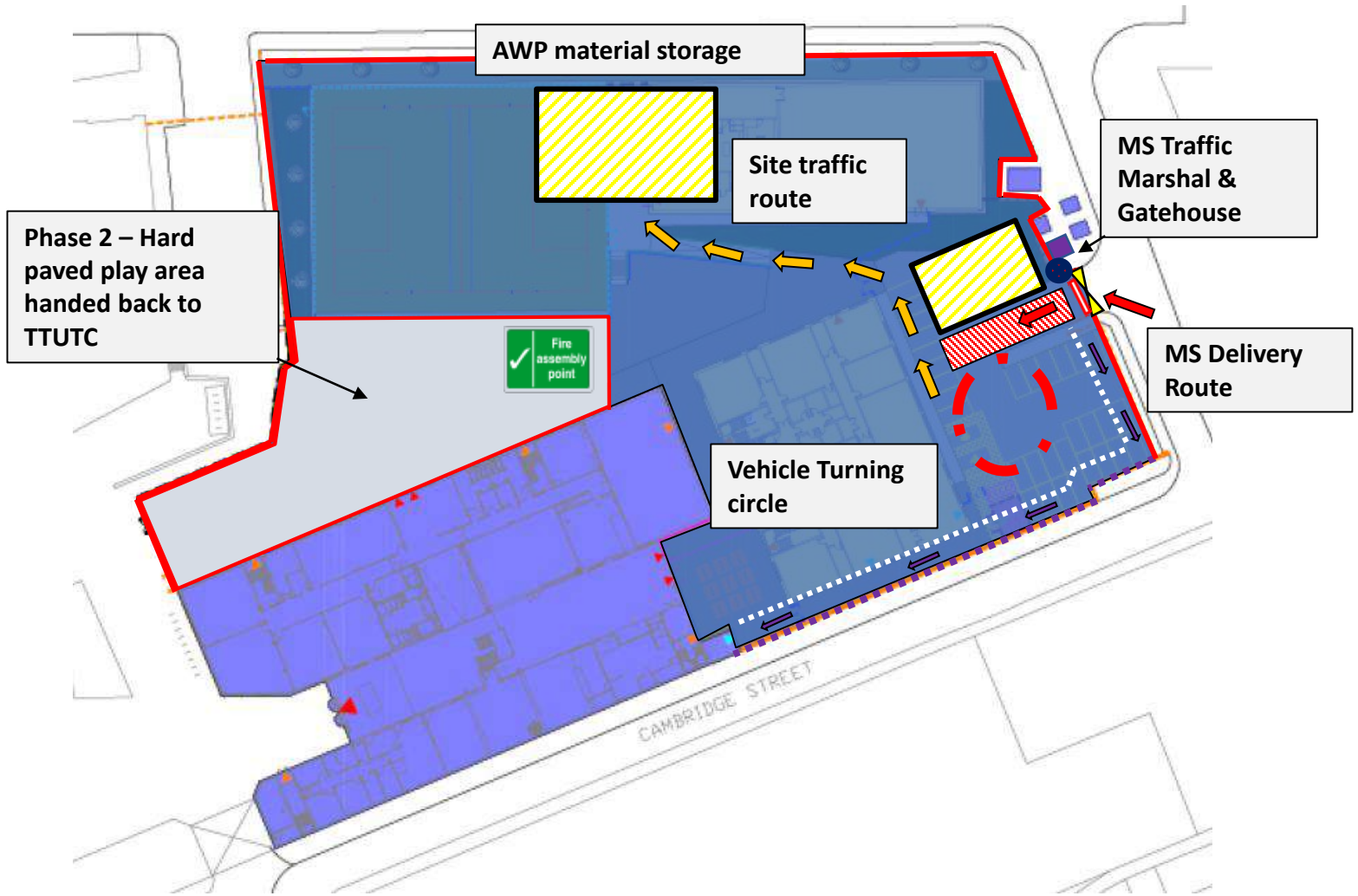
- MS Offices & Welfare Location 4 No double stacked Units
- Smoking & Vaping Shelter
- Full Height Heras Fencing
- Timber bollards
- Site Pedestrian Access Routes
- Double Site Security / Vehicle Access Gates
- Single Site Pedestrian Gates
- Turnstile Controlled Access
- Security Lifting Barrier
- Double Heras fence Vehicle Access Gates to site compound and car park
- Material Storage Area
- TTUTC Staff Parking

Traffic Management – Phase 1 (On Site)

KEY

- Contractors Offices & Welfare Location 4 no. Double Stacked Units (located off site)
- Traffic/Security Control Gate House
- Pedestrian / Vehicle Heras Segregation Fencing
- Site Vehicle Access Route
- Site Pedestrian Access Routes
- Double Site Security / Vehicle Access Gates
- Single Site Pedestrian Gates
- Bio-Metric Turnstile System to allow Authorised Access onto site
- Security Lifting Barrier
- Existing Fence/ Wall
- Material Storage Areas
- Shared access route (school & MS deliveries only)
- Kitchen/ Bin Delivery Route (controlled by MS traffic marshal)
- Crowd barrier – pedestrian route

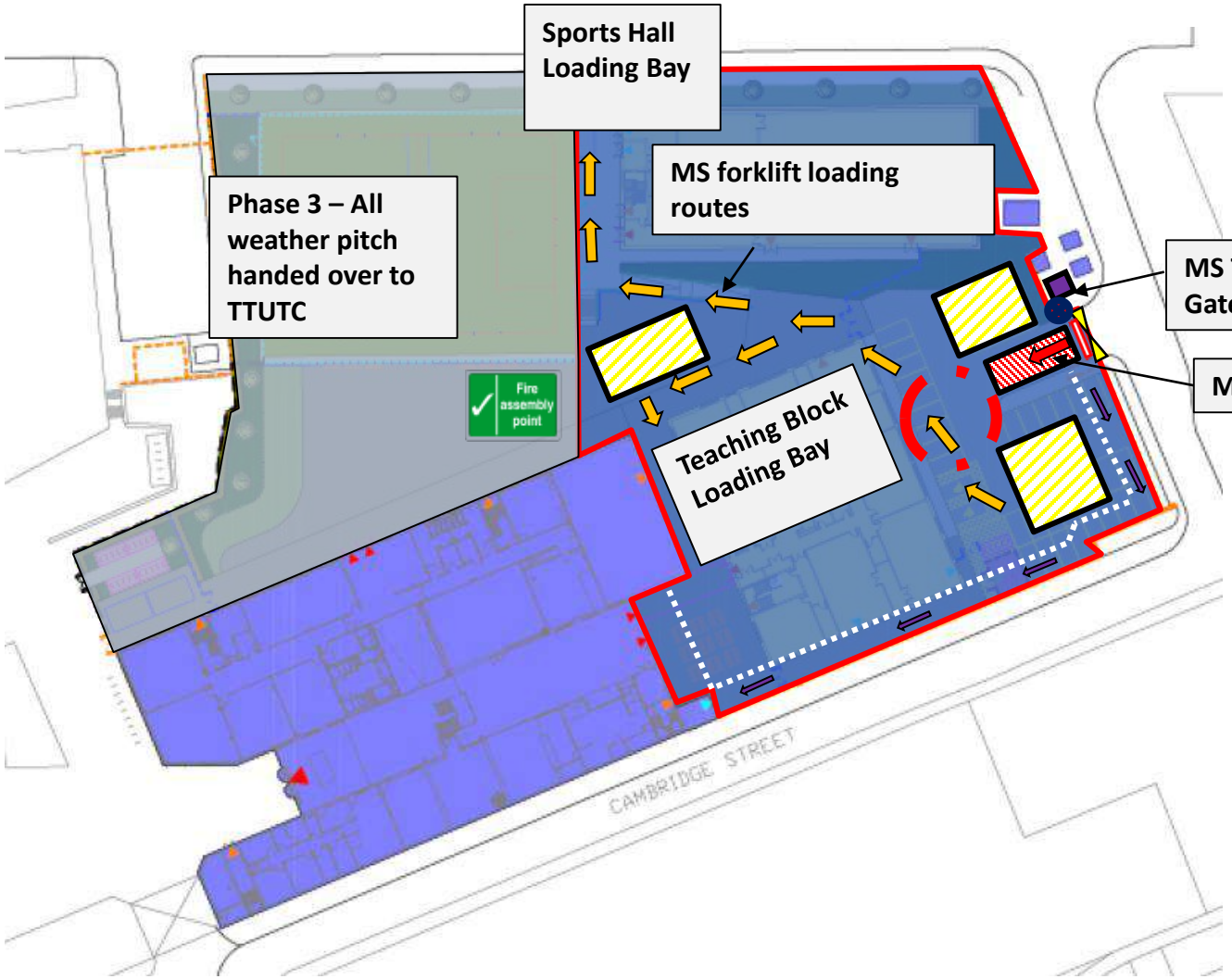
Traffic Management – Phase 2 (On Site)



KEY

- Contractors Offices & Welfare Location 4 no. Double Stacked Units (located off site)
- Traffic/Security Control Gate House
- Pedestrian / Vehicle Heras Segregation Fencing
- Site Vehicle Access Route
- Site Pedestrian Access Routes
- Double Site Security / Vehicle Access Gates
- Single Site Pedestrian Gates
- Bio-Metric Turnstile System to allow Authorised Access onto site
- Security Lifting Barrier
- Existing Fence/ Wall
- Emergency escape routes from The school building to be maintained
- Shared access route (school & MS deliveries only)
- Kitchen/ Bin Delivery Route (controlled by MS traffic marshal)
- Crowd barrier – pedestrian route

Traffic Management – Phase 3 (On Site)



KEY

- Contractors Offices & Welfare Location 4 no. Double Stacked Units (located off site)
- Traffic/Security Control Gate House
- Pedestrian / Vehicle Heras Segregation Fencing
- Site Vehicle Access Route
- Site Pedestrian Access Routes
- Double Site Security / Vehicle Access Gates
- Single Site Pedestrian Gates
- Bio-Metric Turnstile System to allow Authorised Access onto site
- Security Lifting Barrier
- Existing Fence/ Wall
- Emergency escape routes from The school building to be maintained
- Shared access route (school & MS deliveries only)
- Kitchen/ Bin Delivery Route (controlled by MS traffic marshal)
- Crowd barrier – pedestrian route

Construction Phase Health and Safety Plan (CPHSP) – (PEP Part 2)

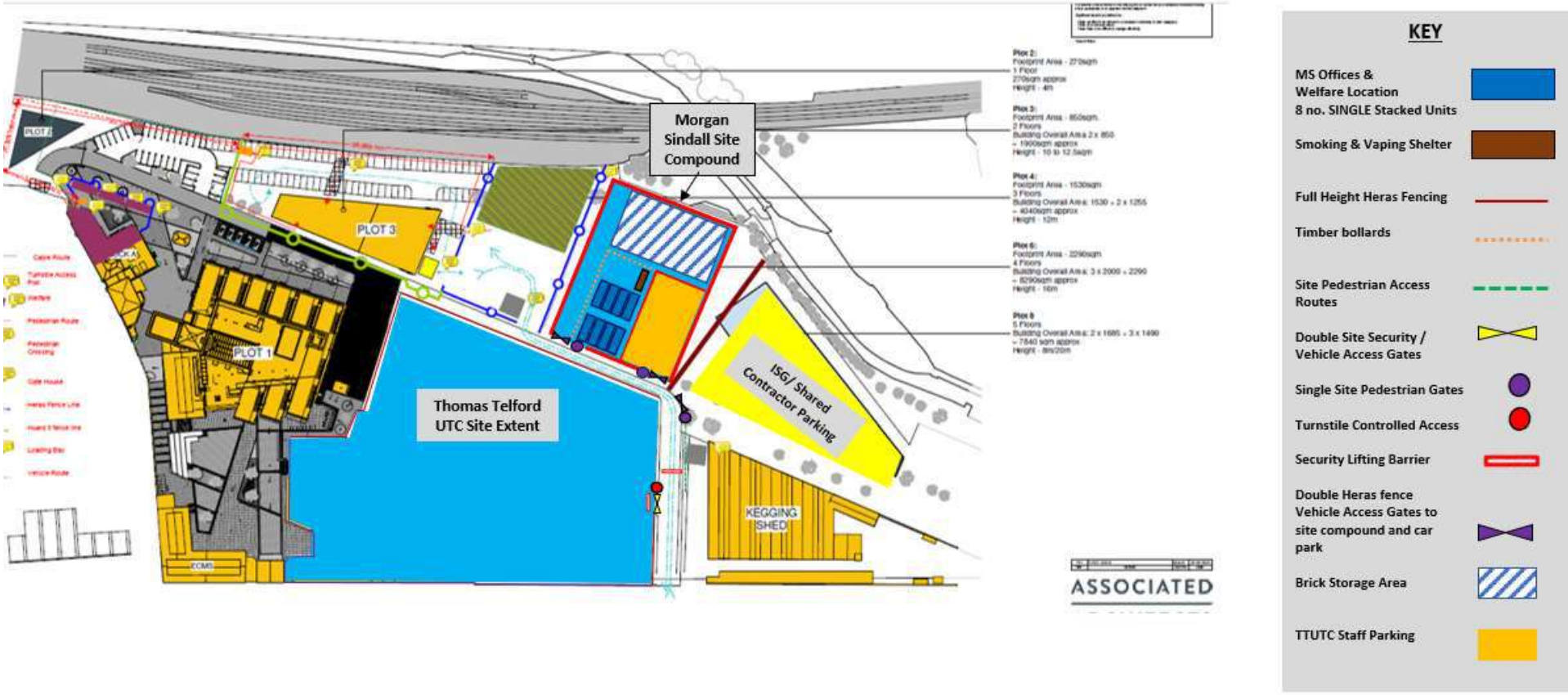
Vertical edges	Falling of vehicles and vehicle loads. Injury to site personnel	Road barriers must be installed to vertical edge. Timber baulks to be positioned at least 1m back from edge. Earth berms. Controlled speed limit.
Concrete pumps overturning	Injury to pedestrians and site personnel	Ensure all outriggers are positioned correctly.
Obstructions and services	Overturning of vehicles. Damage to installed structure.	Highlight obstructions and services.
Noise and vibration and emissions	Effects on site personnel and pedestrians.	Vehicles to be regularly inspected and maintained.
Drivers lacking competence	Out of control vehicles. Striking site personnel and damage to structures	All site drivers to have a current certificate of training achievement and to be competent. Drivers to receive adequate supervision and monitoring.
Vehicle arrival and departure	Site congestion. Striking site personnel and pedestrians. Causing road traffic accidents. Vehicle drivers being struck by another vehicle or load.	Security to control and monitor incoming and outgoing vehicles. Drivers must wear mandatory PPE when out on site. All drivers to be issued with drivers' rules. Refer appendix B.
Key hazard identified	Significant risk and who may be harmed.	Control measures.
Speeding vehicles	Striking pedestrians and other vehicles.	All vehicles to observe the site speed limits. All drivers to be issued with drivers' rules. Refer appendix B. Speed humps installed where necessary.
Loading and unloading of vehicles	Striking site personnel.	All loads to be unloaded under the supervision of a trained and competent banksman.
Disruption to the local traffic and highways	Causing congestion and possible road traffic accidents.	Vehicles to use the designated approach roads.
Non site vehicles entering the site	Striking pedestrians, site personnel and other vehicles.	Security to monitor incoming and outgoing vehicles. Signs to be displayed on approach to site roads.

MORGAN SINDALL CONSTRUCTION

MORGAN SINDALL INFRASTRUCTURE

Construction Phase Health and Safety Plan (CPHSP) – (PEP Part 2)

Specific detailed drawings / sketch (marked up Site Traffic Management layouts)



Construction Phase Health and Safety Plan (CPHSP) – (PEP Part 2)

Appendix G Site service plan

See overleaf

UNDERGROUND SERVICES KEY

TEL(B2)	British Telecom	AR Assumed Route	GPR Ground Penetrating Radar
COM(B2)	Communications Cable	BD Backdrop	TFR Taken From Records
DU(B2)	Ducting	CR Cable Riser	PE Polyethylene Pipe
E(B2)	Electricity Cables	d Depth	UTS Unable To Survey
G(B2)	Gas Pipes	PR Pipe Riser	UR Unable To Rod
FWS(B2)	Sewer Foul	RS Reducing Slab (Drainage)	UT Unable To Trace
SWS(B2)	Sewer Surface Water	T Tank	NVP No Visible Pipes
TL(B2)	Traffic Light Cables	VR Vapour Recovery Point	VC Vitrified Clay
U(B2)	Unidentified GPR or electro location trace	UTL Unable To Lift	CO Concrete
W(B2)	Water pipes		
	End of trace		

GPR Detected Anomaly
GPR Detected Rebar
GPR Detected Structural Feature
GPR Detected Structure
GPR Low Data

DISCLAIMER

Electromagnetic and ground penetrating radar techniques have been used in the location of underground services shown on this survey plan. These are interpretive procedures and we recommend that trial excavations should be undertaken to to confirm identification, location and depth of services where these are critical.

Please note that not all buried pipes, cable and ducts can be detected and mapped in consideration of their depth, location, material type, geology and proximity to other utilities.

All reasonable effort and care has been made in searching available record drawings. The completeness of the underground service information supplied to and by us cannot be guaranteed.

BSI PAS128:2014 QUALITY LEVELS

(A) = Verified by Inspection-trial pit, vacuum Excavation, Inspection Chamber/Manhole

(B1) = Detected with GPR & EML-High confidence position and depth

(B2) = Detected with either GPR or EML-Medium confidence position and depth

NOTES

Where services are non-metallic or not proven on site, positions are taken from records, trench scars & surface detail.

Where stated, depth estimations are typically to the centre or top of the service. Depths to gravity sewers and drains are typically to invert levels, unless otherwise stated.

Where Ground Penetrating Radar (GPR) is quoted the depth is recorded to the assumed external crown of the feature.

The diagram below describes the depth information in more detail.

Where the precise position or depths of these features are critical to the design or siteworks they must be verified by the use of trial excavations.

Pipe sizes which cannot be obtained by visual survey are taken from utilities record drawings or marker plates where available.

Services shown as Taken From Records have not been proven on site..

The CAD layering may contain further information.

All data collected using GPR has been post-processed.

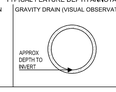
All utilities inspected and measured at IC's or MH's are

considered to be QLA for a radius up to 5m from the chamber wall

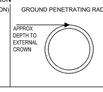
TYPICAL FEATURE DEPTH ANNOTATION

ELECTRO-MAGNETIC DETECTION

GRAVITY DRAIN (VISUAL OBSERVATION)



GROUND PENETRATING RADAR



LV POWER DISTRIBUTION TO BE STRIPPED OUT IN ITS ENTIRETY .

LV POWER DISTRIBUTION REDUNDANT ONCE NEW ELECTRICAL SUPPLY IS INSTALLED INTO THE SPORTS HALL BLOCK AND FED BACK OUT TO CONNECT TO EXISTING GROUND FLOOR LV PANEL. GREEN DNO LV CABLE TO BE TEMPORARILY DIVERT PRIOR NEW SUPPLY INSTALLATION TO MOVE AWAY FROM NEW BUILD ELEMENTS. MAGENTA COMMS CABLE TO BE DIVERTED AROUND FOOTPRINT OF NEW BUILDING TO THE NORTH OF THE BUILDING AND RECONNECTED AT ENTRY POINT TO BUILDING.

GAS AND WATER FROM PRIMARY METERS RUN UNDERGROUND BETWEEN THE SERVICES INTAKE ROOM AND THE EXISTING WORKSHOP DOUBLE HEIGHT SPACE WITH LOCAL MODIFICATIONS TO ENTRY POINT AWAY FROM NEW BUILDING FOUNDATIONS.

LV POWER DISTRIBUTION SERVING LIGHTING AND CCTV AROUND MUGA AND CARPARK TO BE STRIPPED OUT WHEN NEW MUGAS ARE CONSTRUCTED. MAGENTA LV SUPPLY TO BE DIVERTED AROUND FOOTPRINT OF NEW BUILDING TO THE NORTH OF THE BUILDING AND RECONNECTED AT ENTRY POINT TO BUILDING.

SPORTS HALL BLOCK

TEACHING BLOCK

REV	DATE	DESCRIPTION	BY	VE
P02	27.11.20	SITE BACKGROUND AMENDED TO LANDSCAPE SITE PLAN	MsG	JT
P01	26.11.20	ISSUED FOR COMMENT	MsG	JT

couchperrywilkes
engineering change
Birmingham | +44(0) 121 709 6600
Nottingham | +44(0) 115 924 3246
Huntingdon | +44(0) 148 545 7488
Leeds | +44(0) 113 247 0709
Bristol | +44(0) 117 215 5201
Leicester | +44(0) 116 255 7297
London | +44(0) 203 870 4790
Manchester | +44(0) 161 974 7536

RIBA STAGE 2 ☐ RIBA STAGE 3 ☒ RIBA STAGE 4 ☐

STATUS: INFORMATION ONLY

CLIENT: MORGAN SINDALL

PROJECT: WEST MIDLANDS UTC

DRAWING TITLE: EXISTING SUBTRONIC AND DIVISIONS PROPOSALS

SCALE (A3)	DATE	BY	VE
1:200	26.11.2020	MsG	JT

DRAWING NUMBER: CPW-200741-ME-EXT-SITE-XX-01 REV: P01

FILE: XREF(S):

Construction Phase Health and Safety Plan (CPHSP) – (PEP Part 2)

Appendix H Project safety and security site rules

Essential rules to maintain safe working

1. Read, understand and follow the task specific method statement. If you cannot work safely, then stop and reassess the risk and adapt the method statement with your supervisor. Remember – no method statement – no work

2. Ladders / step-ladders only to be used where identified by risk assessment and authorised by permit to work

3. Remove waste and any materials not required as work proceeds and at the of every shift

4. 'Permit to work' areas and associated control measures must be strictly adhered to at all times

5. Work at height access equipment to be erected by trained personnel only

6. Maintain clear access / egress routes at all times, do not create slip, trip and fall hazards. Store material and equipment in the agreed allocated areas

7. Electrical plant, hand held tools and leads to be properly tested on a regular basis. Do not use unsafe equipment on site, report any defects and keep leads tidy

8. Safety helmets, high visibility clothing, safety footwear, gloves and light eye protection are mandatory on this site at all times. Additional items of PPE to be carried / used according to risk assessment requirements e.g. goggles, ear protection, mask / respiratory protection.

   The wearing of shorts is not acceptable and a minimum of a short sleeved t-shirt is required beneth high visibility clothing

9. Understand the site fire strategy, the interface with adjoining operational areas and the impact your work may have on others

10. Do not smoke other than in designated areas

11. The use or possession of drugs / alcohol on site is strictly prohibited

12. Only operate plant / tools if you are training, competent and authorised to do so

13. Avoid site loading of structures caused by stacking materials against fencing, hoarding and temporary structures such as scaffolds and falsework systems

14. Eating and drinking is not permitted on site areas and must be restricted to the facility provided

15. The use of foul language and threatening behaviour will not be tolerated

16. Mobile phones should not be used whilst operating plant or machinery, and calls should only be taken / made when in a position of safety

17. The use of radios and personal music devices is not permitted.

Construction Phase Health and Safety Plan (CPHSP) – (PEP Part 2)

Appendix I – Method Statement

See overleaf

Construction Method Statement for Thomas Telford UTC

MORGAN SINDALL CONSTRUCTION

Construction Method Statement for Thomas Telford UTC

MORGAN SINDALL CONSTRUCTION

Introduction

This document has been prepared to support a planning application being submitted to the City of Wolverhampton Council. The scheme comprises the extension of the existing school on the former Springfield Brewery site, located off Cambridge Street, Wolverhampton.

The Site

Cambridge Street is located to the north east of Wolverhampton City Centre on the former Springfield Brewery site.
The site itself is accessed from Cambridge Street, via the Cannock Road (A460).

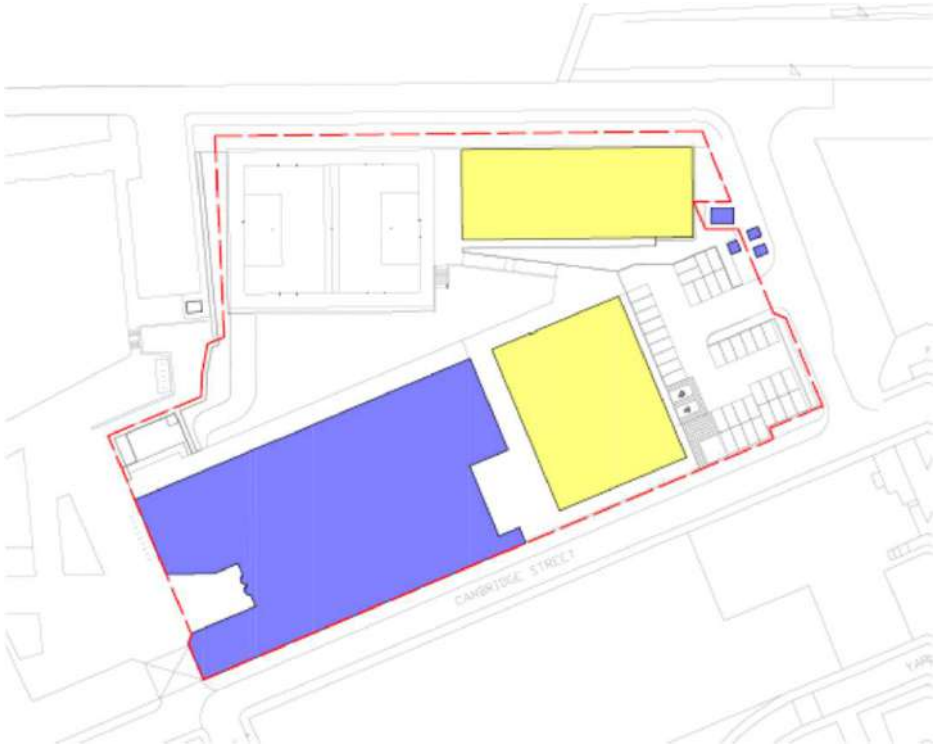
The site is bounded to the south by the existing TTUTC, to the east by a future residential estate, to the North the redundant kegging sheds, and to the west by undeveloped University of Wolverhampton land.

Location Plan – Cambridge Street

Construction Method Statement for Thomas Telford UTC

MORGAN SINDALL CONSTRUCTION

Existing Site – Red Line Boundary



The Scope of Works

Teaching Block

The new three storey teaching block will be located adjacent to the existing school. The Teaching block consists of low level brickwork, with cladding above. The roof will be constructed to a 'north light profile'.

Sports Hall

The Sports hall will be located adjacent to the University of Wolverhampton spine road. The new sports hall will be a 2 storey building and sports hall, consisting of low level brickwork and cladding above, with a pitched roof.

In additional, the site includes an all weather pitch alongside hard and soft landscaped areas. Cycle parking is located to the south of the proposed site, adjacent to the existing school.
Staff parking is located *to the North of the site, adjacent to the proposed teaching block. The drop off zone will remain on Cambridge Street, as per the existing arrangements.*

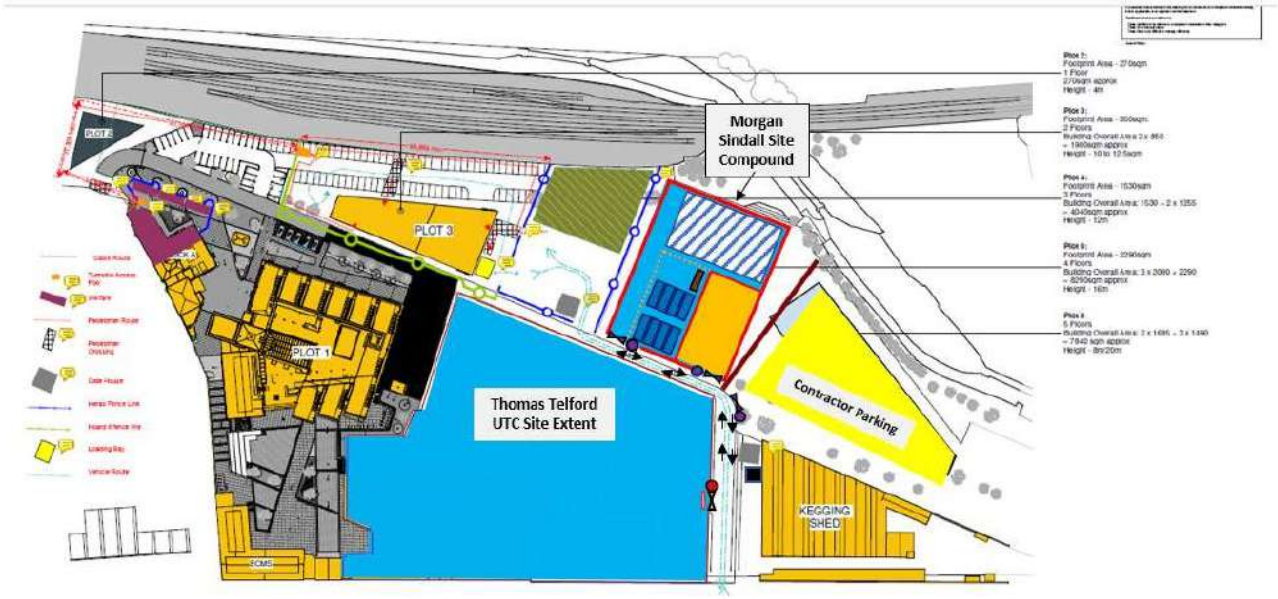
Site Establishment

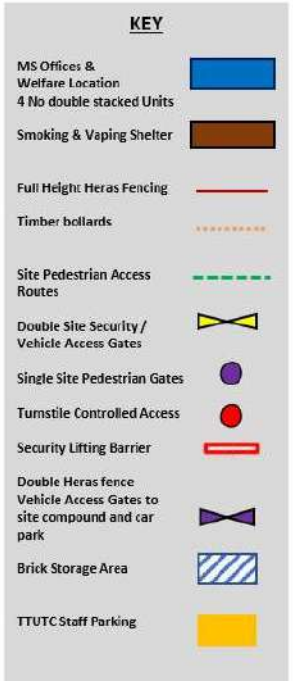
Site Establishment – Site Offices & Welfare Facilities

It is our intention to use ‘plot 6’ which is located on the University of Wolverhampton land to the west of the proposed site. This will consist of a secure compound, including office and welfare facilities. Contractor parking will be located on ‘plot 8’ which is located to the north of ‘plot 6’.

Site Offices & Welfare

The site accommodation will be established for the site based project team and includes the Employer and/or his agents along with office space for the key supply chain.
This will also include contractor welfare facilities, drying room and canteen.

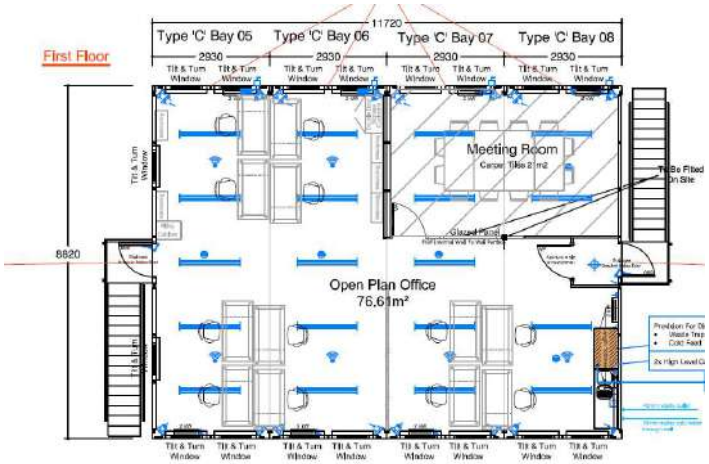


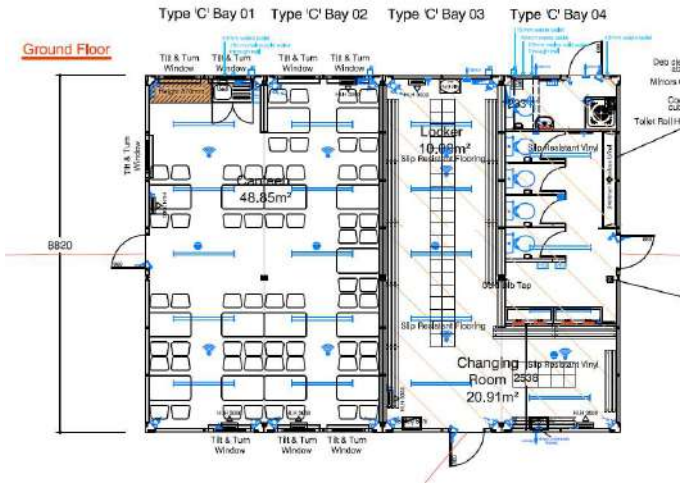


Temporary pathways will be constructed to provide a safe, level walkway free of standing water.

The accommodation areas will be cleaned daily. Having clean facilities in our experience sets the standard for achieving good housekeeping on the site, in turn leading to a high quality standard in workmanship for the project.

Welfare & Accommodation





Site Offices & Welfare

Accommodation will be fully equipped including e-mail, phone and first aid facilities and will comprise of:

- Offices
- Meeting Room
- Staff Toilets
- Canteen / Mess room / Drying rooms
- WC facilities
- Secure lockers
- Secure charging points for tools & phones

Our company policy is for no smoking on site. We will provide a smoking shelter in a designated area to facilitate any smokers. This will be sited away from any existing or new buildings and any site cabins.

Site Compound

Compound Area

To manage the site effectively and efficiently we have given considerable thought to our site set up proposals - reviewing the following key aspects:

- Maintaining a safe site throughout the project
- Clear & concise [site wide] signage
- Safe pedestrian walkways throughout the site
- Specific traffic routing and segregation from pedestrians and
- working areas
- Clearly located fire muster points
- Efficient compound and material storage
- Safe and unobstructed delivery routes
- Clear and designated lorry unloading areas
- Well located eye wash stations
- Efficient ‘Just In Time’ delivery and material storage
- Frequently positioned Cleaning Stations

Vehicular access will be via controlled gates onto the construction site. A trained and competent traffic marshal will greet all vehicles at the site entrance. All deliveries will be escorted onto and away from site and/ or the site compound. Access onto the construction site will be controlled using a turnstile – only people who have undertaken a safety induction will be permitted access onto the site pedestrian access via a turn style system.

The cabin area will be securely segregated from the construction site throughout the project for both health & safety and security measures. All cabins will be branded to identify our company and portray an image of the construction industry of which Morgan Sindall are proud to be a part of.

Working Hours

Hours of Operation

The contracted working hours for this project are Monday to Friday 07.30am until 18:00pm.

We do not intend for the project to be open on a Saturday, Sunday and or Bank holiday. However if there is a requirement for the site to be open on a Saturday then the working hours will be 08:00am to 17:00pm. If work is undertaken on Saturdays consideration will be given to local activities and deliveries will be planned to work alongside these.

Deliveries

Just in time deliveries will be used. An on-line delivery booking system will be utilised throughout the project to ensure that deliveries arrive when the site is ready to accept them. Regular co-ordination and collaborative planning meetings will mitigate the risk of double handling of materials.

A dedicated material & plant delivery lane will be vehicles only, except for the traffic marshals(s). This will be segregated fr0m pedestrian routes using suitable demarcation and fencing/ barriers.

Management of Deliveries

MORGAN SINDALL CONSTRUCTION

Delivery & Storage

Storage space on the site will be at a premium due to the access and logistics of the site and therefore deliveries will be dealt with via a “just in time” philosophy to limit the storage space required. Inevitably some materials will need to be stored on site so specific storage areas will be set up for different types of materials. This will help with maintaining the required level of housekeeping and tidiness across the site.

Signage will be displayed on both the access route for pedestrians (to ensure a safe, protected route is available) and the site entrance road which will direct persons to areas for off-loading materials and plant deliveries. A pull in area will be incorporated into the site entrance to ensure that the road is kept clear of construction traffic at all times.
The site access gates will be controlled by a dedicated Morgan Sindall gateman to ensure deliveries are managed onto the site and directed to the right area for offloading. Advance notice from our subcontractors and their suppliers will be required for all deliveries and sent to our logistics manager/gateman.
Careful consideration to timings and traffic management will be at the forefront of discussions prior to arrival with considerate management being in place on site.

Delivery Management

The delivery plan will aim to avoid congestion of the surrounding roads, and to prevent inconvenience to our neighbours during the construction of the new education facility.

The following tools will be used:

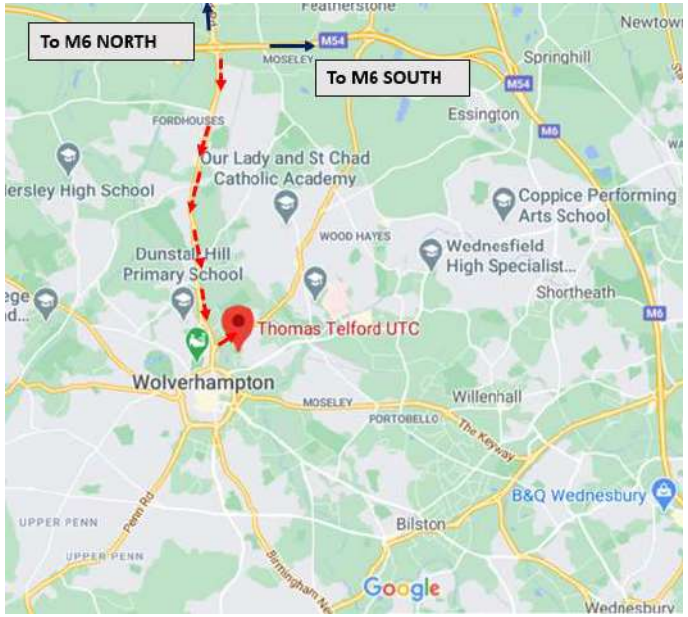
- A full time delivery marshal / material coordinator will be employed. Deliveries for the project will enrolled onto the delivery management portal.
- A programme of deliveries will be completed to ensure that adequate time is allowed for each delivery, to permit vehicles to be offloaded before the arrival of the next delivery vehicle and avoid congestion outside the site.
- Material deliveries will not be permitted outside the stipulated working hours.
- All materials will be stored away from the site boundaries.
- Any delivery lorries with materials liable to create dust will be covered with tarpaulins.
- Large components will be offloaded by the allocated plant directly from the delivery vehicle located on the site, all statutory safety measures will be adhered to in respect to signage, barriers and banksmen to ensure public safety is maintained.
- Availability of storage for materials will be limited. All deliveries will be on a 'just in time' basis.

The site is located approximately 5 miles from junction 2 of the M54 motorway.

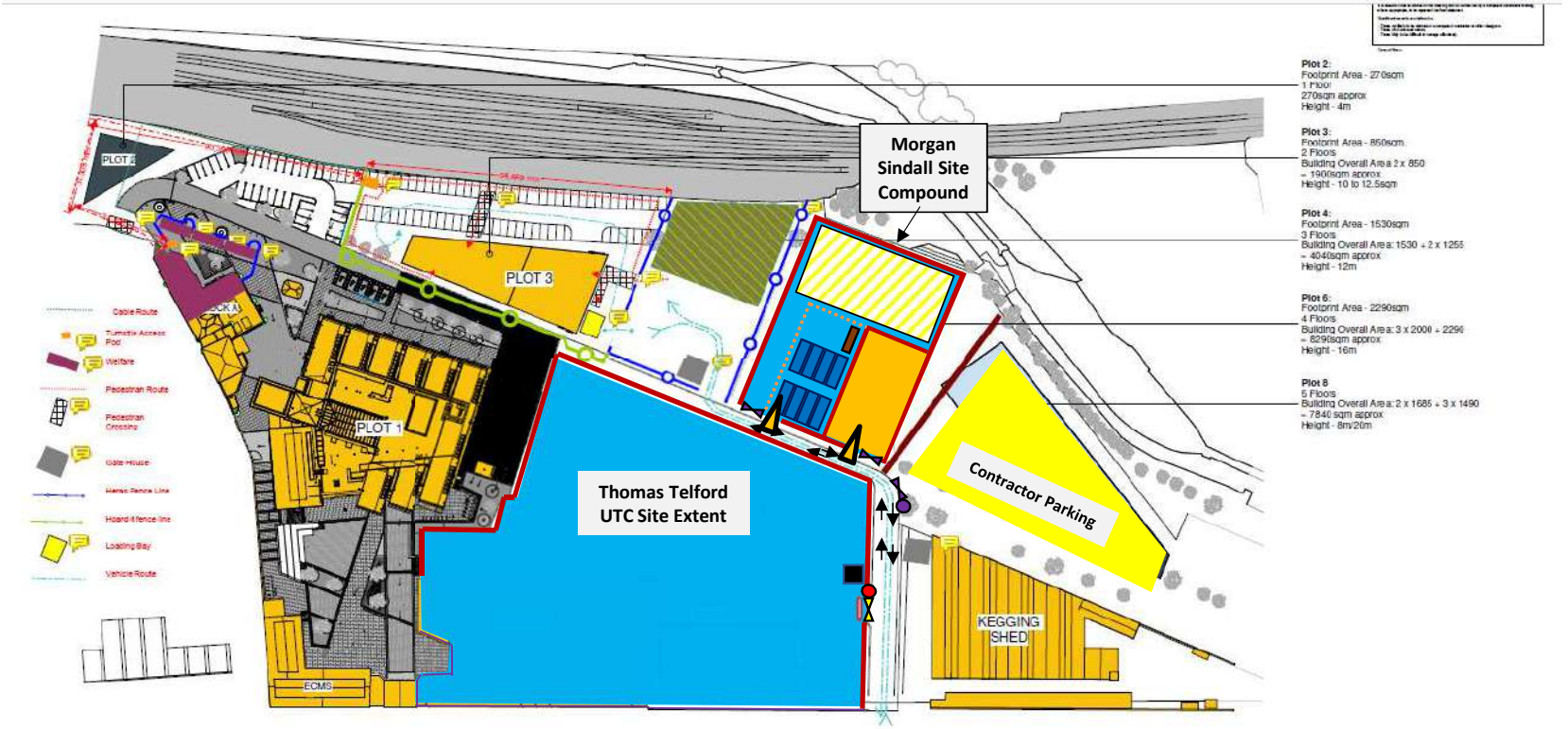
All deliveries will be instructed to access the site via junction 2, A449 Stafford Road and the A460 Cannock Road (see plan to the right).

Deliveries will be instructed to travel along the Cannock Road and turn right onto Cambridge Street

A delivery management system will be implemented for **ALL** deliveries to site.
All plant and material deliveries will be booked onto the on line portal, and will be given a 30 minute time slot to access the site.



Material Storage – Off Site (throughout Project Duration)



MORGAN SINDALL CONSTRUCTION

KEY

- MS Offices & Welfare Location 4 No double stacked Units
- Smoking & Vaping Shelter
- Full Height Heras Fencing
- Timber bollards
- Site Pedestrian Access Routes
- Double Site Security / Vehicle Access Gates
- Single Site Pedestrian Gates
- Turnstile Controlled Access
- Security Lifting Barrier
- Double Heras fence Vehicle Access Gates to site compound and car park
- Material Storage Area
- TTUTC Staff Parking

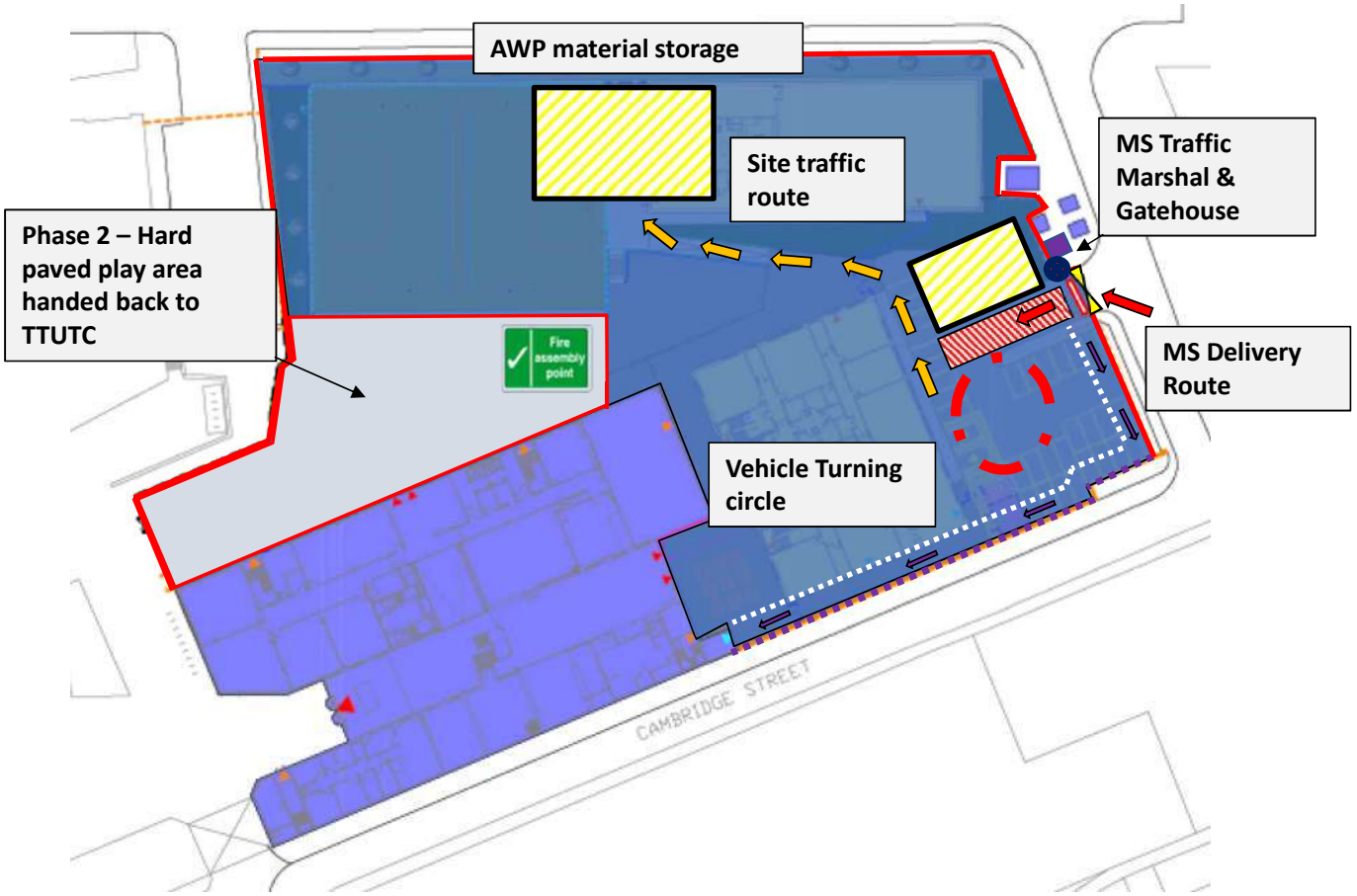
Material Storage – Phase 1 (On Site)

KEY

- Contractors Offices & Welfare Location 4 no. Double Stacked Units (located off site)
- Traffic/Security Control Gate House
- Pedestrian / Vehicle Heras Segregation Fencing
- Site Vehicle Access Route
- Site Pedestrian Access Routes
- Double Site Security / Vehicle Access Gates
- Single Site Pedestrian Gates
- Bio-Metric Turnstile System to allow Authorised Access onto site
- Security Lifting Barrier
- Existing Fence/ Wall
- Material Storage Areas
- Shared access route (school & MS deliveries only)
- Kitchen/ Bin Delivery Route (controlled by MS traffic marshal)
- Crowd barrier – pedestrian route

Material Storage – Phase 2 (On Site)

MORGAN SINDALL CONSTRUCTION



KEY

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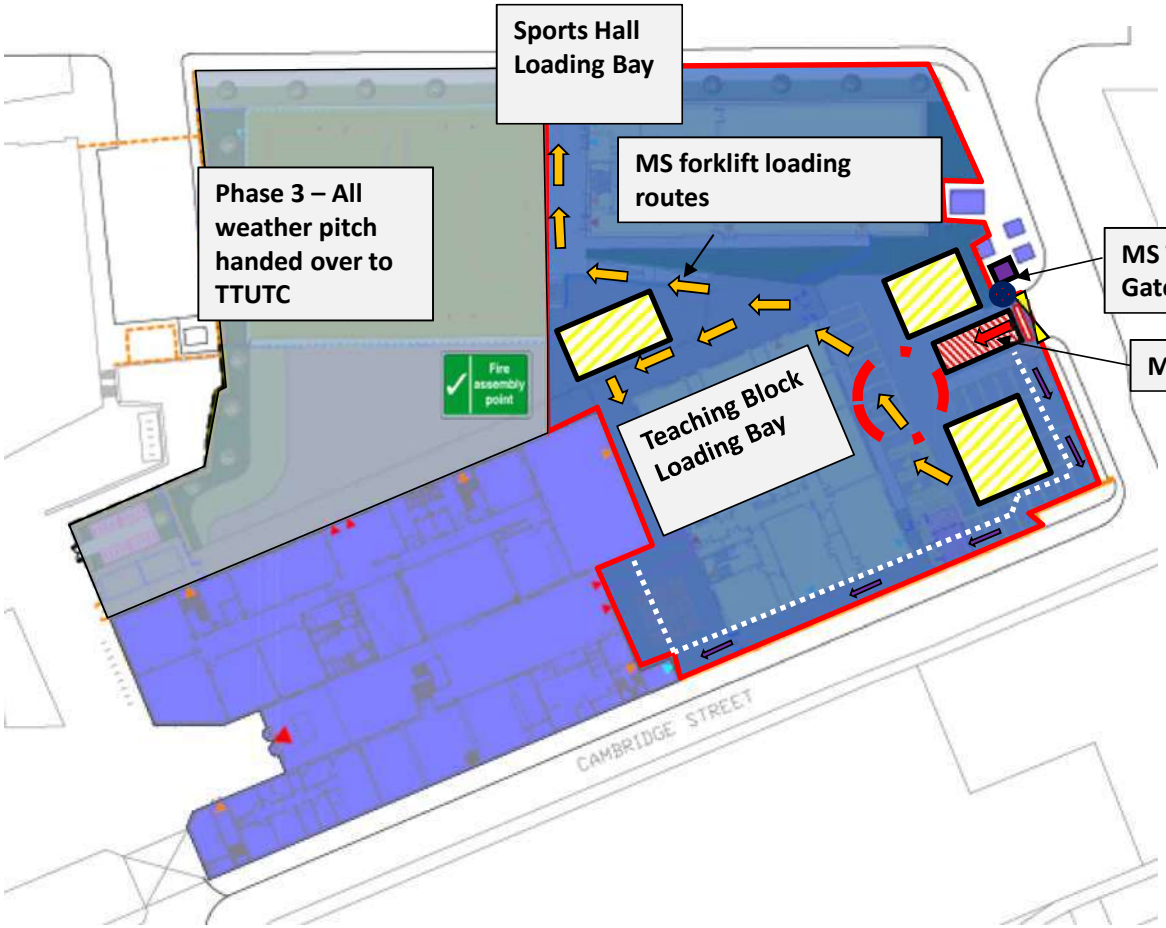
- Double Site Security / Vehicle Access Gates
- Single Site Pedestrian Gates
- Bio-Metric Turnstile System to allow Authorised Access onto site
- Security Lifting Barrier
- Existing Fence/ Wall
- Emergency escape routes from The school building to be maintained
- Shared access route (school & MS deliveries only)
- Kitchen/ Bin Delivery Route (controlled by MS traffic marshal)
- Crowd barrier – pedestrian route

Material Storage – Phase 3 (On Site)



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- Shared access route (school & MS deliveries only)
- Kitchen/ Bin Delivery Route (controlled by MS traffic marshal)
- Crowd barrier – pedestrian route

Site Waste Management

Removal of Waste Material

Recycling and segregation skips / bins will be provided and monitored to assist in meeting the waste minimisation targets in our Site Waste Management Plan (SWMP). Wheelie bins will be placed on the floor plates and emptied into the skips as required, using the site forklift to transport to the waste station.

Dust Suppression

Cutting stations, located throughout the building, will sit within a dedicated cutting enclosure noise curtain– attached to a dustmaster will shield operatives working in the vicinity from noise and dust.
M-Class vacuums to be used at all times. The use of brushes will not be permitted.
Face-fitted, push to test RPE masks are minimum requirement on all Morgan Sindall sites.

COSHH Storage

COSHH Storage will be used for the safe storage of hazardous substances.
A secured open cage will be used for gas bottles – stored away from site welfare & in open air.
Secure enclosed cupboards will be used to store dry materials such as cement, adhesives and spray cans.
All materials will be clearly labelled and have the appropriate warning stickers displayed
Containers that have held hazardous materials and spray cans are to be disposed of separately to site bulk waste.

Site Welfare Waste

Household waste will be collected in a wheelie bin located in the welfare compound. This will be kept separately to the construction site waste.

Gypsum Waste

Lockable enclosed skips will be used for Plasterboard & Gypsum waste. This will prevent overloading, water ingress which adds weight, and prevents gypsum dust becoming airborne in dry conditions.

Site Waste Management

Waste

A site specific Environmental Management and Sustainability Plan (EMP) will be developed as part of the project execution plan, with the aim to minimise waste at source, segregate generated waste and then recycle or recover any residual wastes.

A waste management zone will be established in the material storage area to house a variety of skips to segregate at source the waste generated from the works, for removal and recycling by a licenced waste carrier.

A waste controller will be appointed on site to ensure compliance with the Environmental Management and Sustainability Plan. In addition we work with our design consultants and sub-contractors during construction to identify further options for waste minimisation and agree a project waste charter.

We are a signatory to the Waste Resources Action Programme (WRAP) which is a commitment of our industry to meet stringent targets to reduce waste to landfill.

Site Waste Management

Dust

Whilst the proposed works will cause minimal dust we will consider the spread and effect of airborne dust during construction and will ensure a mitigation / prevention strategy is agreed and included with the risk assessments and method statement of each construction activity as dust management on site is critical for the long-term happiness of the adjacent site neighbours and the health of the operatives undertaking the works on the project.

Further to any dust reduction measures on site we will also involve the regular maintenance of the existing road by a road sweeper if required

Cutting stations, located throughout the building, will sit within a dedicated cutting enclosure noise curtain– attached to a dustmaster will shield operatives working in the vicinity from noise and dust. M-Class vacuums will be used at all times - the use of brushes will not be permitted.

Face-fitted, push to test RPE masks are minimum requirement on all Morgan Sindall sites.

In addition, if operatives are required to wear respiratory protective equipment [disposable masks] they will be required to be face fit tested and we will insist on a FFP3 disposable mask to be worn as a minimum.

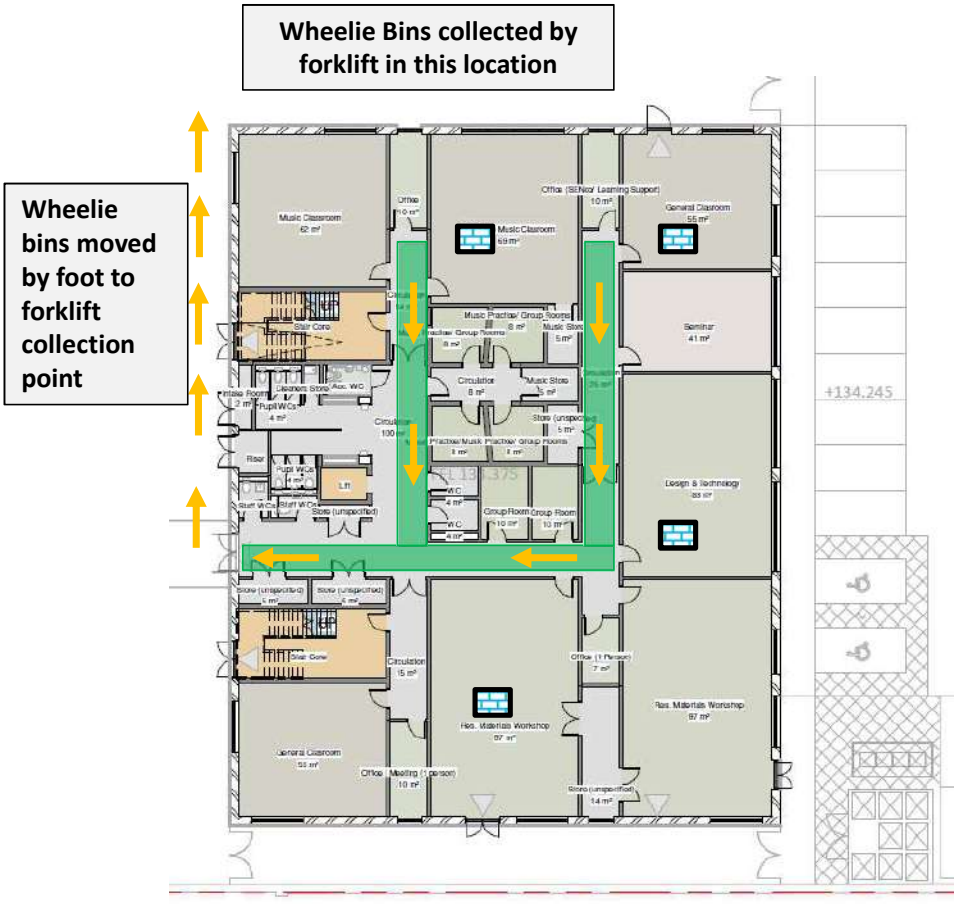
Noise

We will be proactive and will maintain open dialogue with those affected by our works through regular meetings with our neighbours to ensure we do not disrupt any special planned activities or critical working arrangements that maybe adversely affected by noise or vibration.

Our proposed noise reduction measures will include:
i). The control of site working hours.
ii). The undertaking of a base line noise survey prior to any works being undertaken.
iii). Process / plant utilisation method statements to take account of noise control including the switching off of machinery during idling time, work breaks etc.
iv). On site daily noise monitoring as required depending on the site activities being undertaken

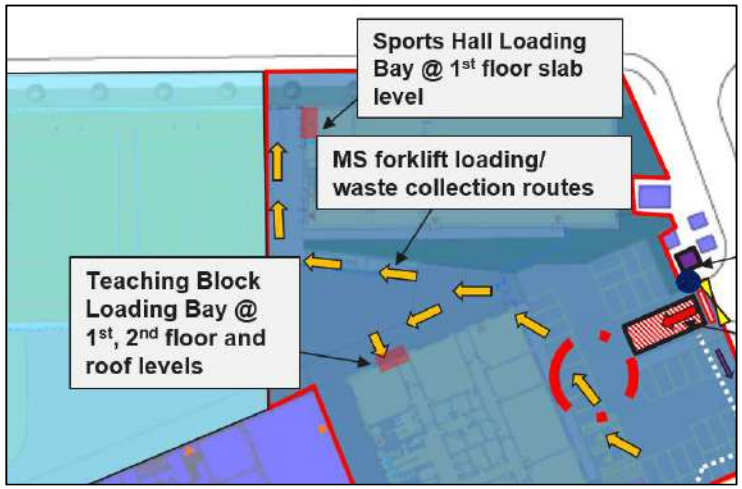
Site Waste Management – Ground Floor Teaching Block

MORGAN SINDALL CONSTRUCTION

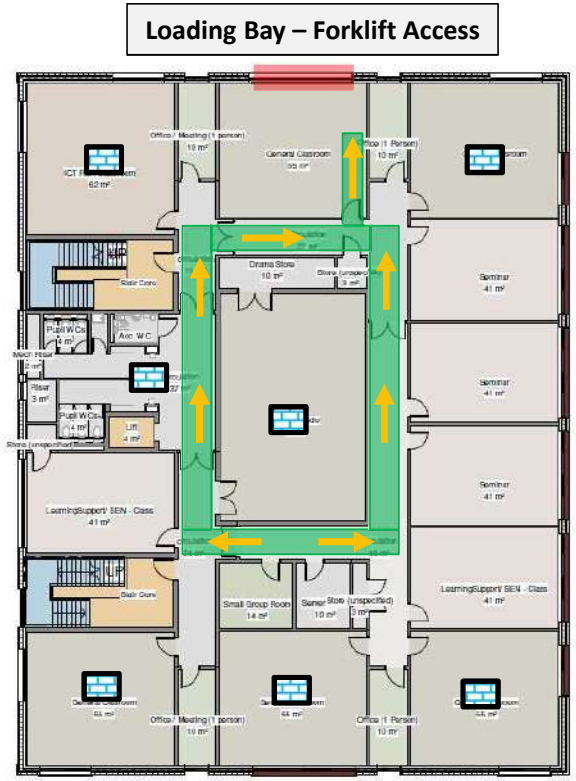


Teaching Block – Ground Floor Waste Management

Wheelie bins will be located across the ground floor area. The bins will be moved to the forklift collection point by hand. A scaffold ramp will be provided to allow ease of access with the bins. Bins will be colour coded and clearly marked to assist with waste segregation. Bins will be emptied regularly and at the end of each shift



Site Waste Management – First Floor Teaching Block



Teaching Block – First Floor Waste Management

Wheelie bins will be located across the first floor area. The bins will be moved to the forklift collection point by hand. A scaffold loading bay will be located on the west elevation. Bins will be colour coded and clearly marked to assist with waste segregation. Bins will be emptied regularly and at the end of each shift

Site Waste Management – Second Floor Teaching Block

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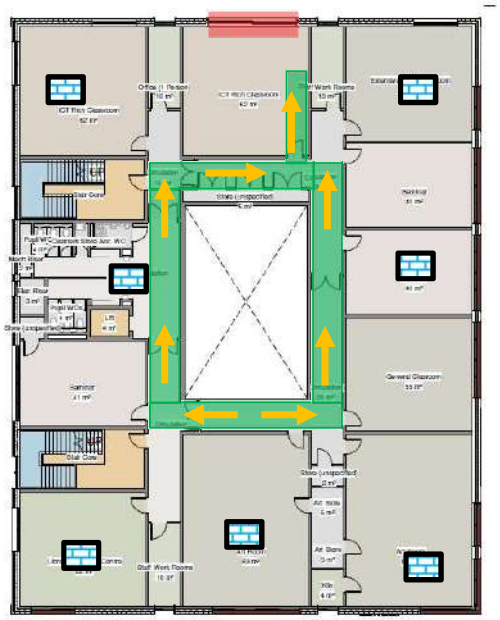
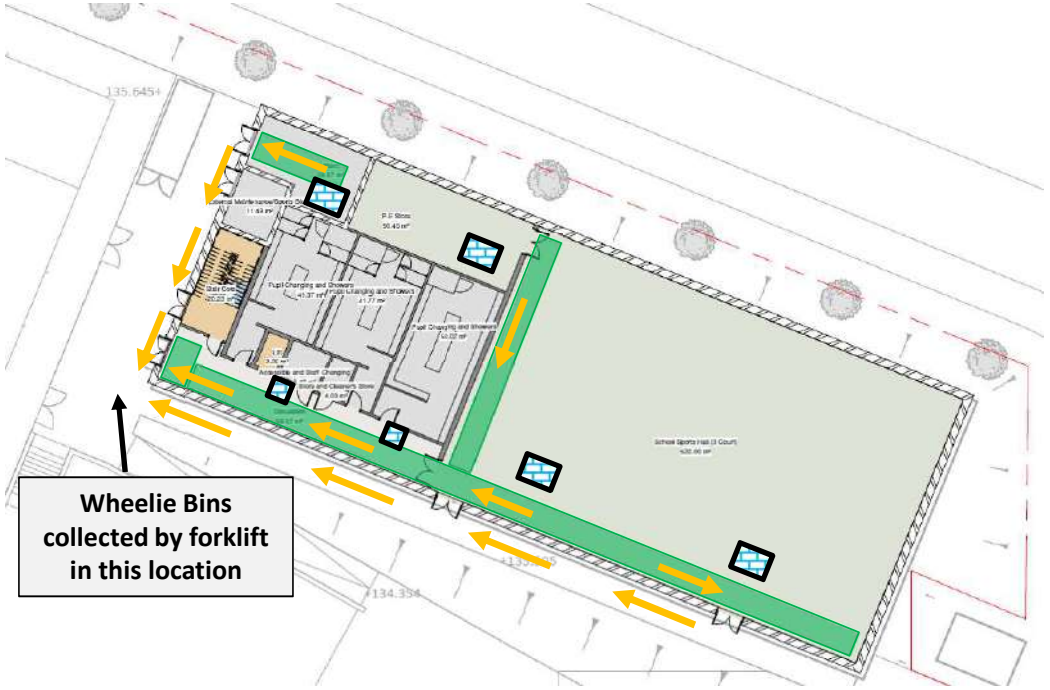
Loading Bay – Forklift Access



Teaching Block – Second Floor Waste Management

Wheelie bins will be located across the second floor area. The bins will be moved to the forklift collection point by hand. A scaffold loading bay will be located on the west elevation. Bins will be colour coded and clearly marked to assist with waste segregation. Bins will be emptied regularly and at the end of each shift

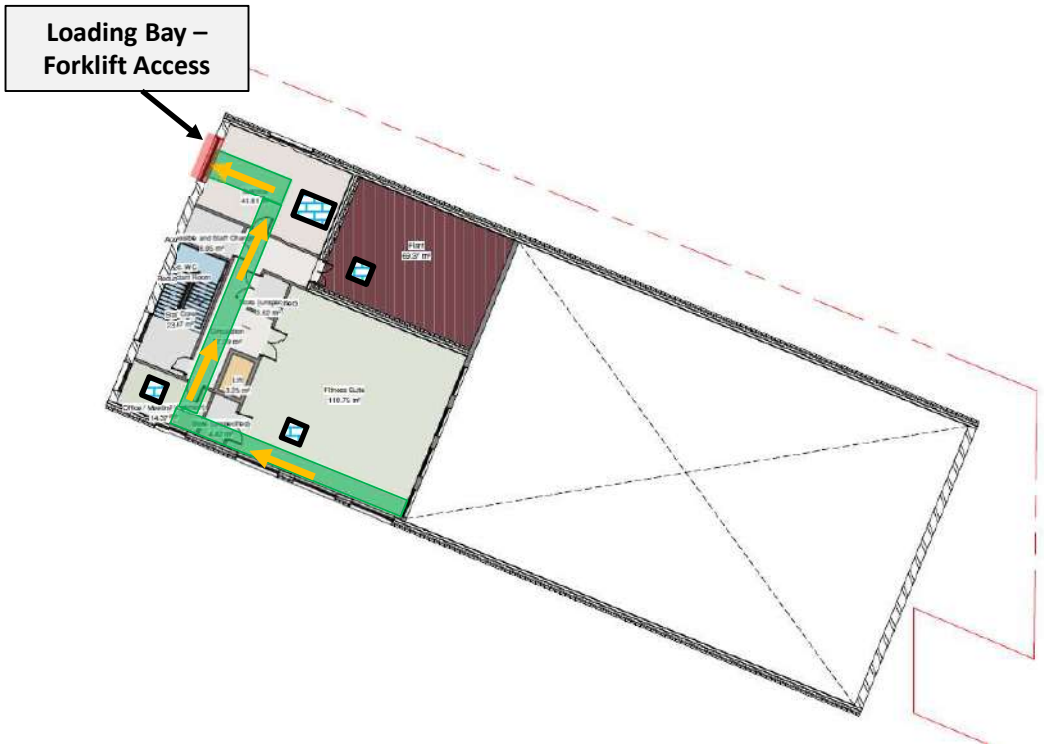
Site Waste Management – Ground Floor Sports Hall



Sports Hall – Ground Floor Waste Management

Wheelie bins will be located across the ground floor area. The bins will be moved to the forklift collection point by hand. Scaffold ramps will be provided to allow ease of access with the bins. Bins will be colour coded and clearly marked to assist with waste segregation. Bins will be emptied regularly and at the end of each shift

Site Waste Management – First Floor Sports Hall



Sports Hall – First Floor Waste Management

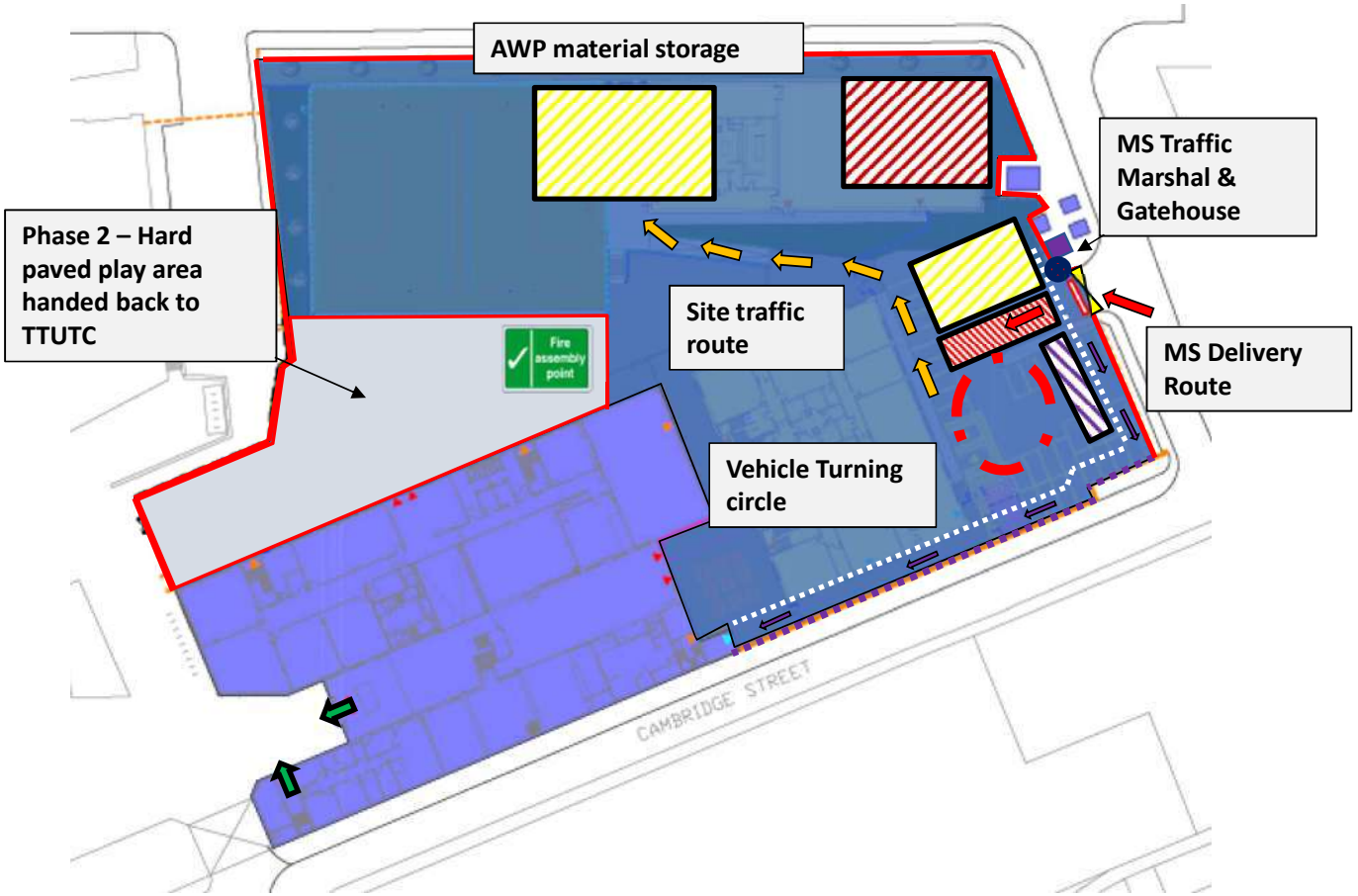
Wheelie bins will be located across the first floor area. The bins will be moved to the forklift collection point by hand. A scaffold loading bay will be located on the west elevation. Bins will be colour coded and clearly marked to assist with waste segregation. Bins will be emptied regularly and at the end of each shift

Waste Management – Phase 1

KEY

- Waste Station
- Pedestrian / Vehicle Heras Segregation Fencing
- Site Vehicle Access Route
- Site Pedestrian Access Routes
- Double Site Security / Vehicle Access Gates
- Single Site Pedestrian Gates
- Bio-Metric Turnstile System to allow Authorised Access onto site
- Security Lifting Barrier
- Existing Fence/ Wall
- Emergency escape routes from The school building to be maintained
- Shared access route (school & MS deliveries only)
- Kitchen/ Bin Delivery Route (controlled by MS traffic marshal)
- Crowd barrier – pedestrian route

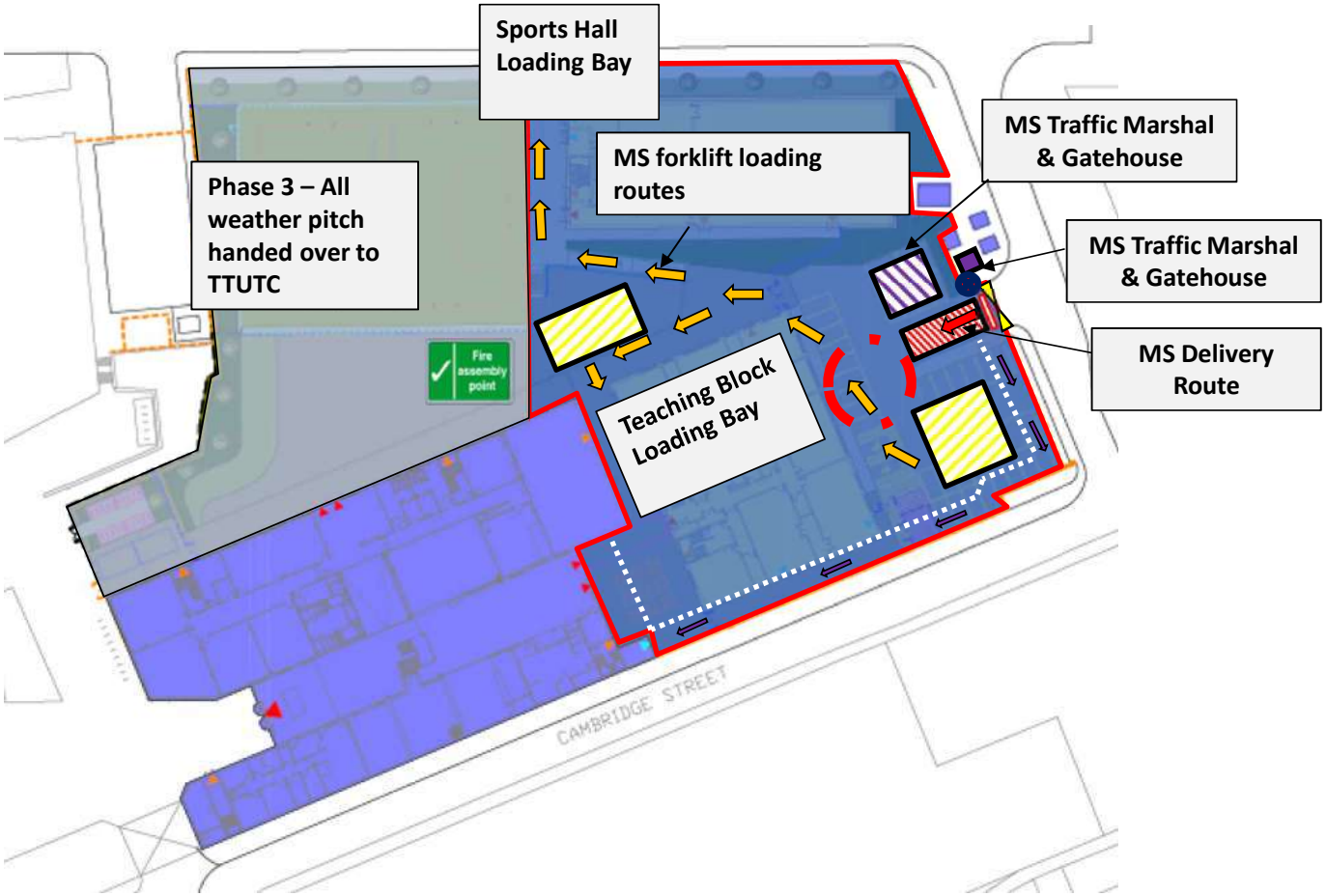
Waste Management – Phase 2



KEY

- Waste Station
- Pedestrian / Vehicle Heras Segregation Fencing
- Site Vehicle Access Route
- Stockpile of site arisings
- Double Site Security / Vehicle Access Gates
- Single Site Pedestrian Gates
- Bio-Metric Turnstile System to allow Authorised Access onto site
- Security Lifting Barrier
- Existing Fence/ Wall
- Emergency escape routes from The school building to be maintained
- Shared access route (school & MS deliveries only)
- Kitchen/ Bin Delivery Route (controlled by MS traffic marshal)
- Crowd barrier – pedestrian route

Waste Management – Phase 3



KEY

- Waste Station
- Pedestrian / Vehicle Heras Segregation Fencing
- Site Vehicle Access Route
- Site Pedestrian Access Routes
- Double Site Security / Vehicle Access Gates
- Single Site Pedestrian Gates
- Bio-Metric Turnstile System to allow Authorised Access onto site
- Security Lifting Barrier
- Existing Fence/ Wall
- Emergency escape routes from The school building to be maintained
- Shared access route (school & MS deliveries only)
- Kitchen/ Bin Delivery Route (controlled by MS traffic marshal)
- Crowd barrier – pedestrian route

Impact on the Neighbours

Vibration

We will consider the spread and effect of vibration during construction and will ensure a mitigation / prevention strategy is agreed and included with the risk assessments and method statement of each construction activity as vibration management on site is critical for the long term happiness of the adjacent site neighbours and the health of the operatives undertaking the works on the project.
Our proposed vibration reduction measures will include:
i). The control of working hours of vibrating activities.
ii). We will attempt to limit vibrating construction activities wherever possible,
iii). We will encourage our sub-contractors to use tracked items of mobile plant which have rubber tracks wherever possible and or use wheeled type of mobile plant if practical.

Vehicle Sheeting and Wheel Washing

When muck away or skip wagons leave the site our trained and competent CPCS qualified gateman / vehicle banksman will check and ensure that the skips are not overloaded, sheeted over with debris netting or similar to prevent waste spillage and or deposits occurring onto Cambridge Street and or any other adjacent public roads and causing a potential hazard to other road users.
Where required, wheels will be cleaned before vehicles exit / egress from the site via the use of a pressure washer or similar.

Lighting

Consideration will be given to how the site and the Welfare Facilities are lit to ensure that any effect on neighbouring properties is minimised as much as possible.

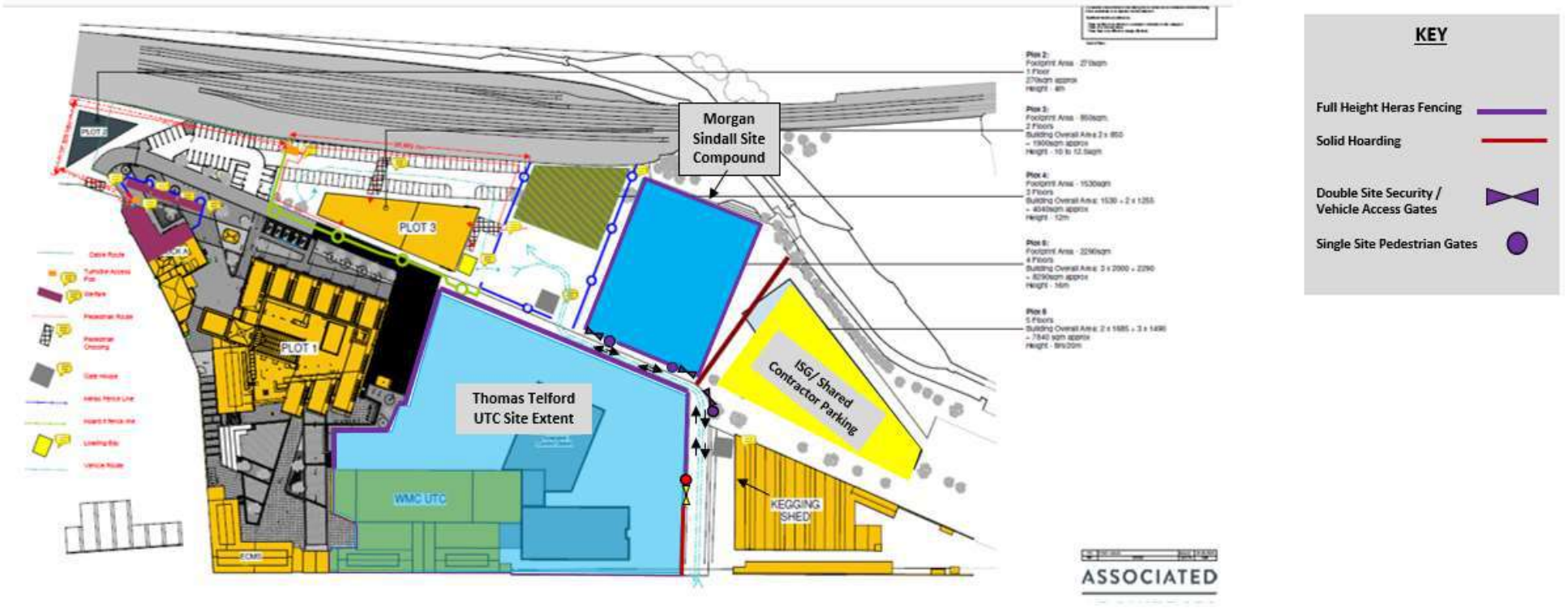
Energy Efficiency

Reducing the construction carbon footprint through the project and the implementation of Environmental Management and Sustainability Plan (EMP), will be a key driver toward achieving appropriate targets for reduction in water and energy consumption.

We will measure site generated traffic trips of all staff, operatives and visitors to site and will allocate an individual for the monitoring and recording of the data.

All safety background lighting internally and task lighting used by our subcontractors is to be of the LED type. Provision of timers will be installed to all 11kva transformers to turn the safety background lighting on and off as required.

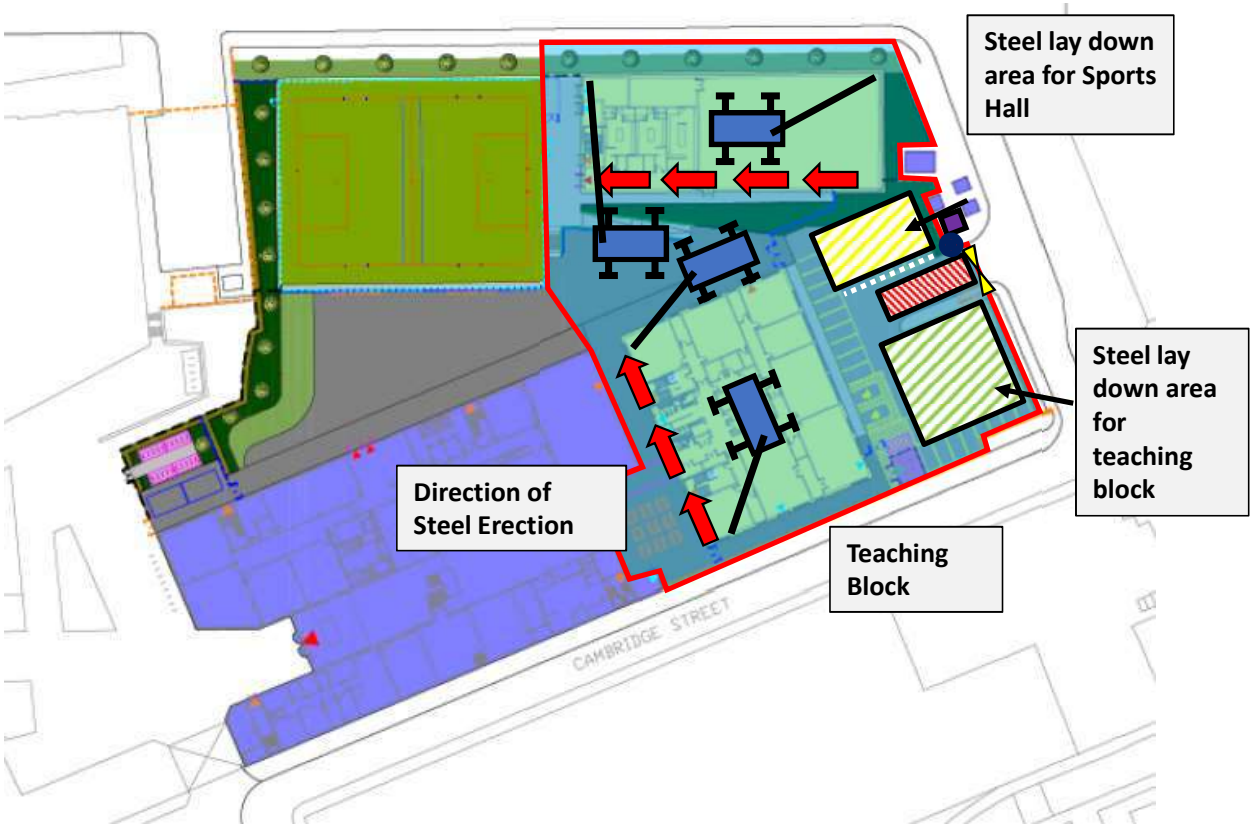
Site Hoarding



Hoarding

Hoarding will be in line with the Site Establishment layout (see left)demarcating the site boundary at the pedestrian and vehicle entrance. Solid timber hoarding will be installed to the North boundary, with all other boundaries secured using heras fence with timber posts secured to an in situ concrete foundation.

Lifting Operations – Steel erection



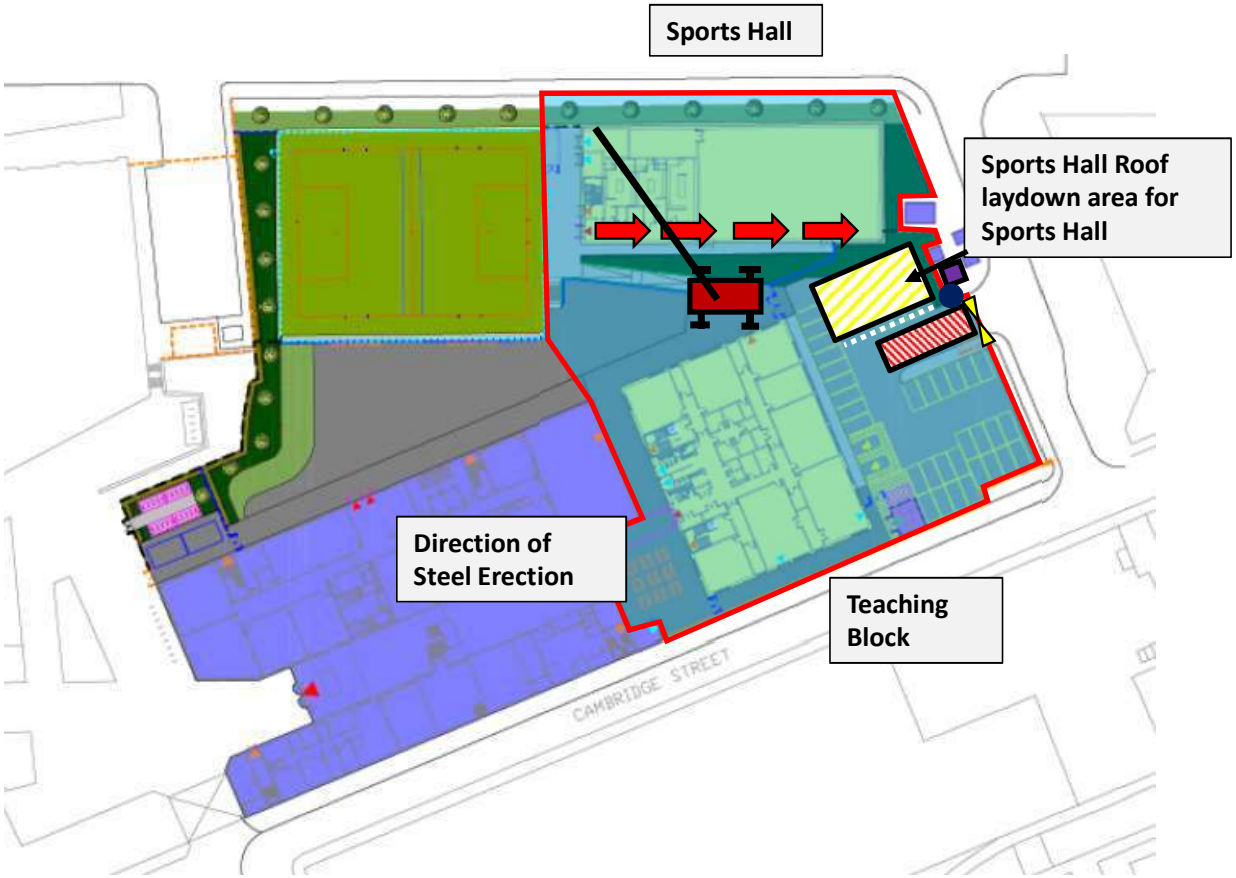
Lifting – Steel Frame Erection

All lifting will be undertaken with the use of mobile cranes to be provided by the relevant approved Sub Contractor. No over sailing of the neighbouring properties will be required.

Lifting during the erection of the steel frames will be undertaken using suitably sized mobile cranes, provided by the relevant sub-contractors, There will be no oversailing of the neighbouring boundaries or over the live school buildings and play areas. Telescopic forklifts will be used to move steel where applicable.

Dedicated material and emergency laydown areas will be clearly defined and segregated during this operation.

Lifting Operations – Sports Hall Roof



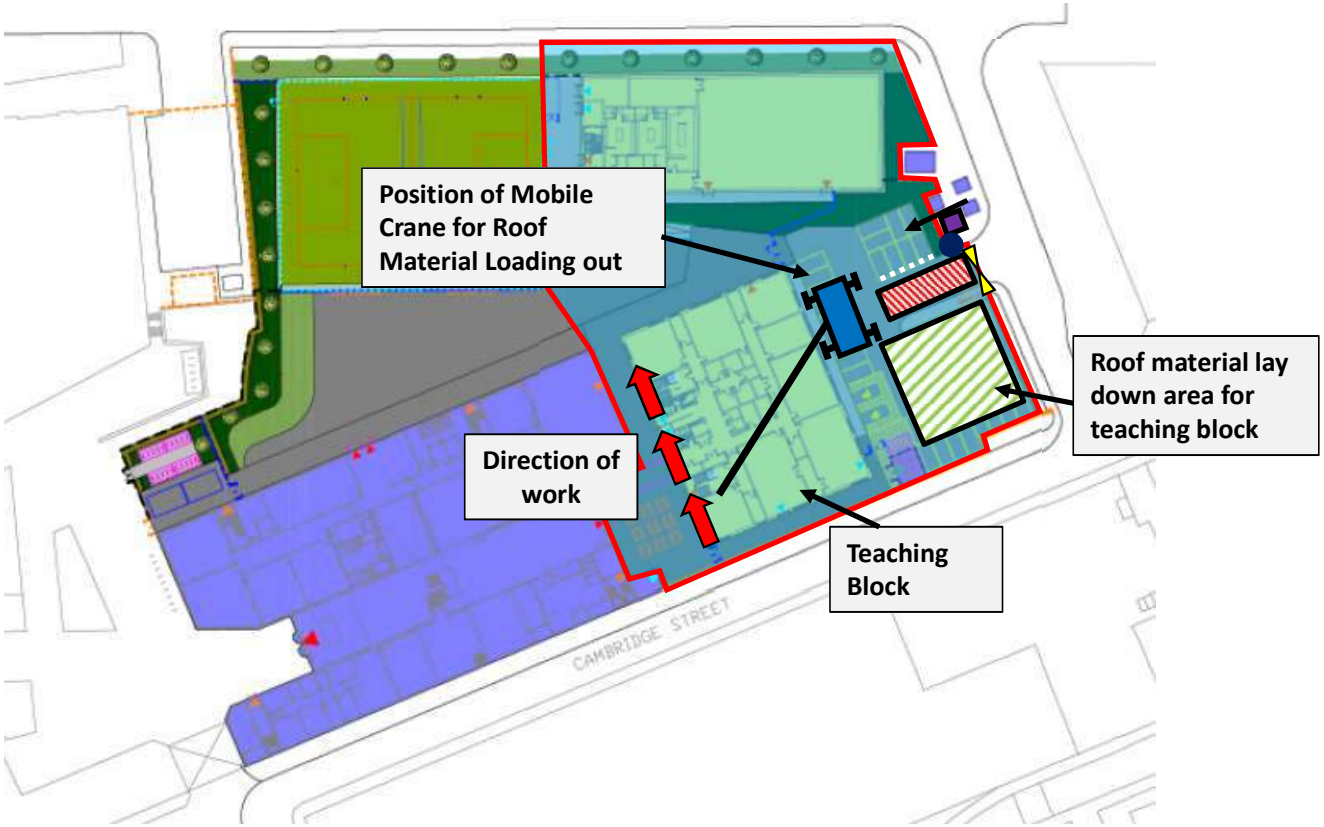
Lifting – Sports Hall Roof Loading out

The sports hall roof materials will be loaded out using a mobile self erecting tower crane, provided by the relevant approved Sub Contractor. No over sailing of the neighbouring properties will be required.

Lifting during the loading out of the sports hall roof will be undertaken using suitably sized mobile cranes, provided by the relevant sub-contractors, There will be no oversailing of the neighbouring boundaries or over the live school buildings and play areas. Telescopic forklifts will be used to move steel where applicable.

Dedicated material and emergency laydown areas will be clearly defined and segregated during this operation.

Lifting Operations – Roof Loading out



Lifting – Teaching Block Roof Loading out

The teaching block roof materials will be loaded out using a mobile crane, provided by the relevant approved Sub Contractor. No over sailing of the neighbouring properties will be required.

Lifting during the loading out of the teaching block roof will be undertaken using suitably sized mobile cranes, provided by the relevant sub-contractors, There will be no oversailing of the neighbouring boundaries or over the live school buildings and play areas. Telescopic forklifts will be used to move steel where applicable.

Dedicated material and emergency laydown areas will be clearly defined and segregated during this operation.

Isolation and Diversion of Existing Services

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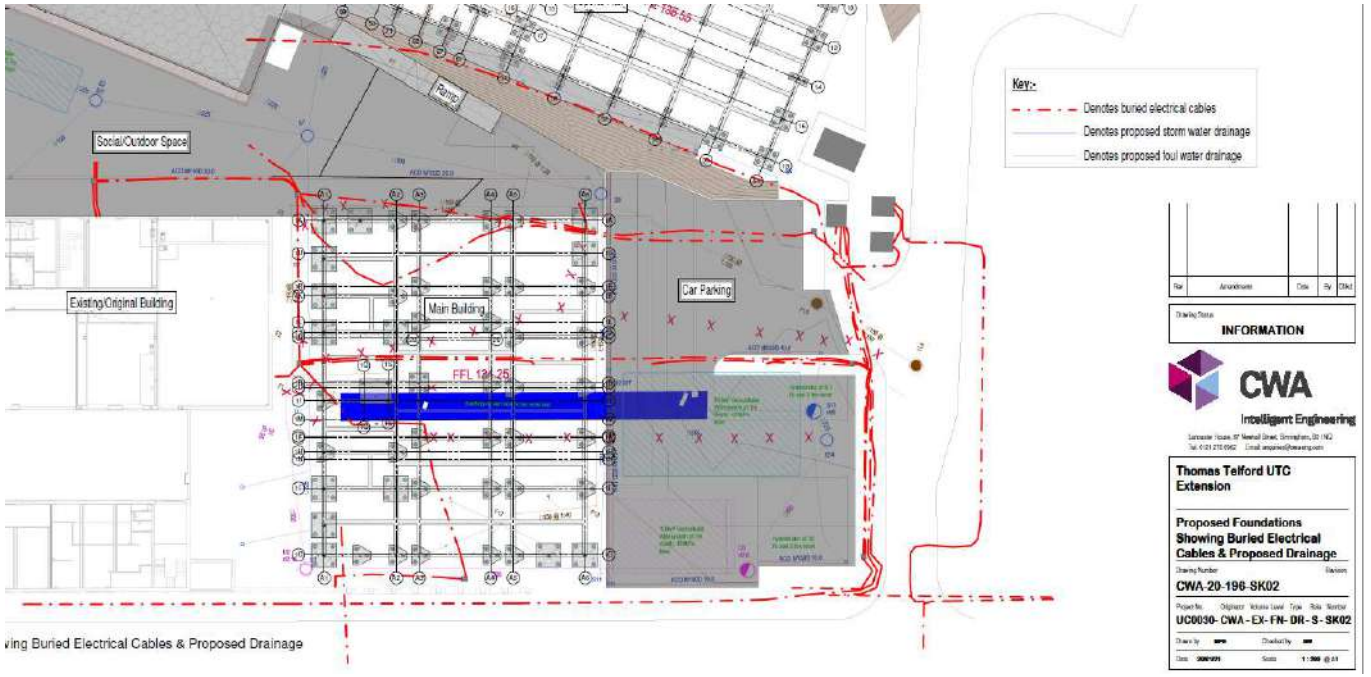
Isolation & Diversion of Existing Services

There are multiple live services through the work area, some of which will need to be diverted/ rerouted to allow the construction of the new teaching block

Morgan Sindall have will undertake a further subtronic ground scan that will confirm the position of any existing underground services, both live and redundant.

Any services identified will be isolated, disconnected or diverted as required and will be undertaken by either our NIC EIC and or Gas Safe Sub-Contractors.
Once this activity has been undertaken we will be issued with a copy of the various certificates for record purposes.



Consultation

Consultation

This document has been produced with consideration of best practice within the industry but also through consultation and discussion with various 3rd parties.

We are a Considerate Constructor and are aware of the impact a construction project can have on a neighbourhood. We will continue direct liaison with the existing school and the University of Wolverhampton throughout the duration of the project. (including their contractors where applicable)

This will include regular news letters and meetings.