

Construction Management Plan

Cravenwood Primary Academy

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1.0 Introduction

The purpose of the Construction Management Plan (CMP) is to address the detailed procedures, sequencing and construction methodology anticipated by the project team engaged in the planning, liaison and construction of the project.

It is not to be confused with the Construction Phase Health and Safety Plan (CPHS Plan) which will provide the contractor with a mechanism to comply with its legal responsibilities when acting as a Principal Contractor in Respect of the CDM Regulations 2015.

This CMP incorporates 3 main elements:

1. Background
2. Construction Description
3. Traffic Management Considerations

2.0 Background

The site is in the neighbourhood of Crumpsall, on the East side of Bury Old Road. The site is within a short walking distance of Crumpsall Metrolink Station and other local public transport

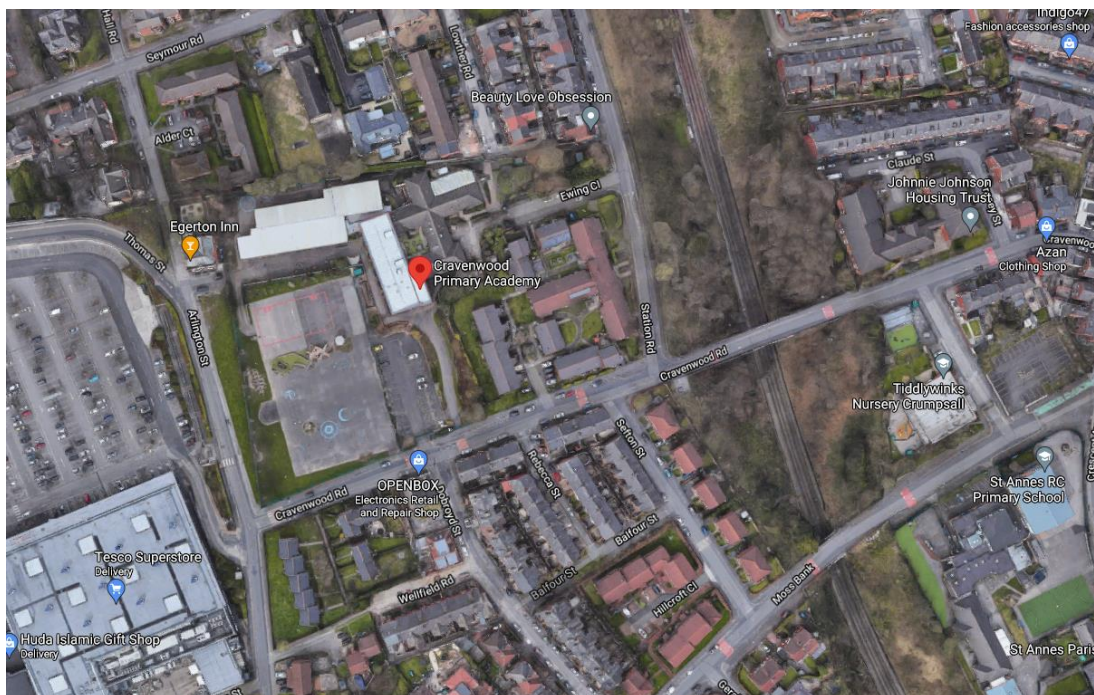
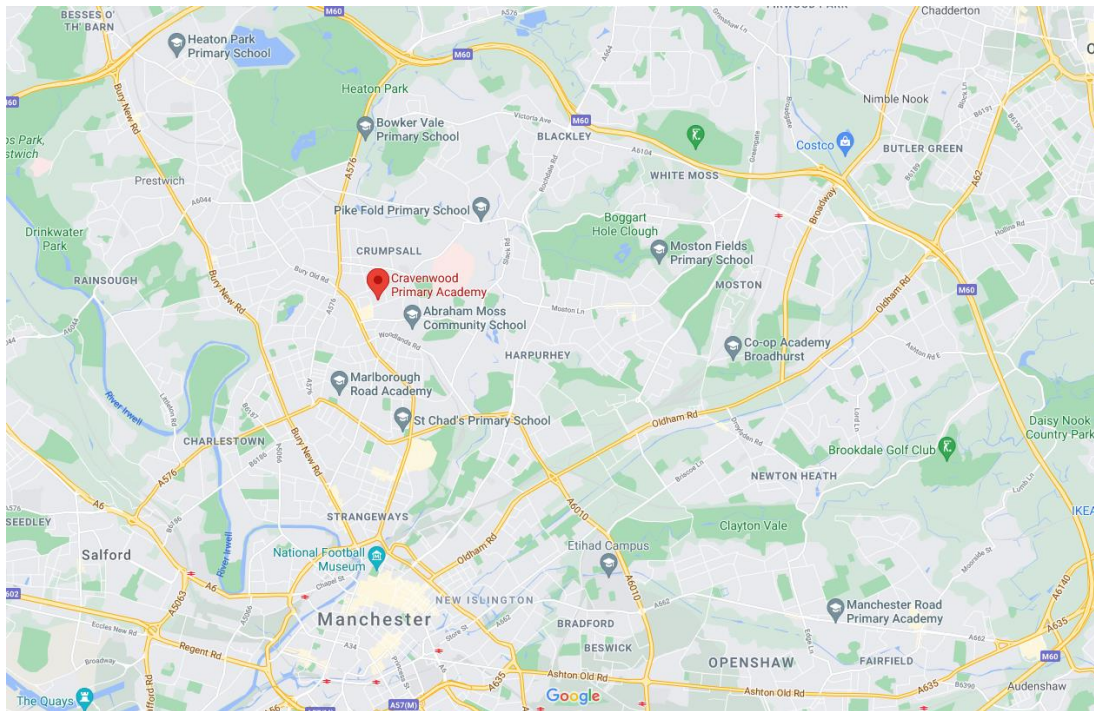
The site is centred at SJ 384082 401942 and occupies the plot on the corner of Arlington Street and Cravenwood Road.

The North, East and South sides of the property are located adjacent to residential properties, with the proposed extension to Cravenwood Primary Academy being located in close proximity to the residential property of 20 Lowther Road.

Vehicle access to the school is provided at Ewing Close, Cravenwood Road and Hanlon Street.

The site is located in a highly sustainable and accessible location due to its proximity to services and facilities and choice of high quality public transport links, including Crumpsall Metrolink Station, within a short waling distance of the site.

2.1 Site Location Plan

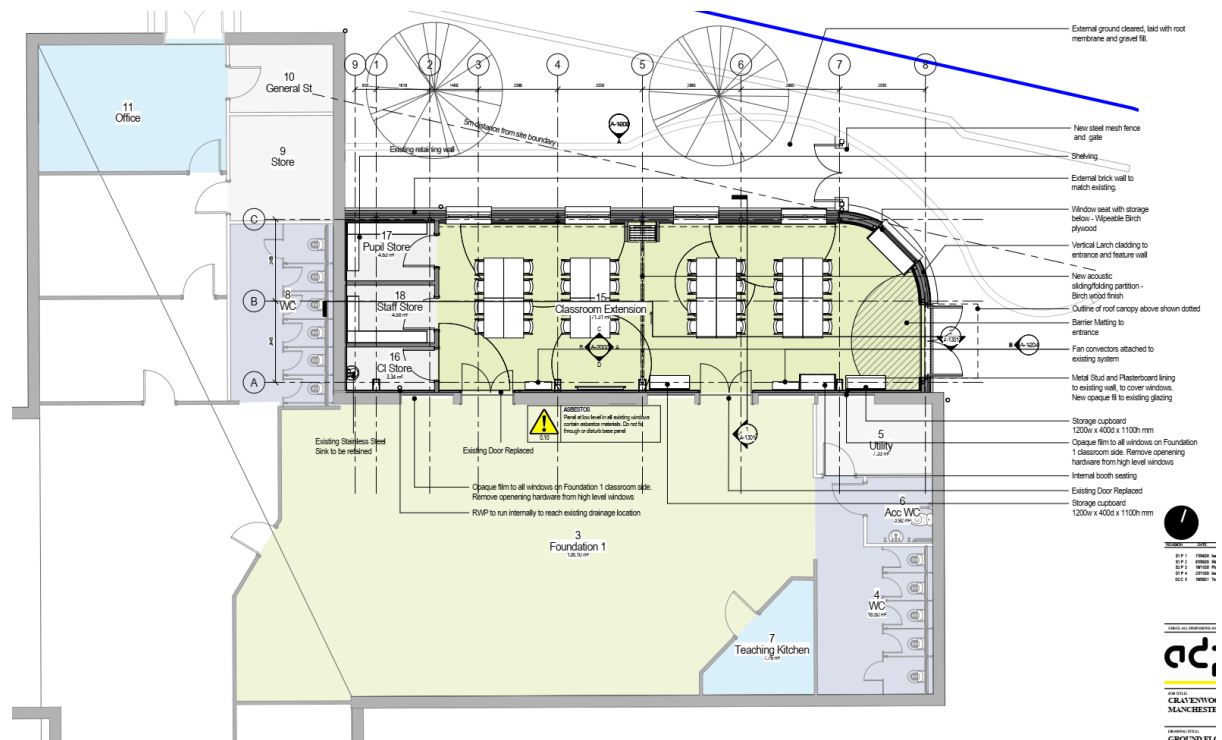


3.0 Construction Description

3.1 Proposed Development

The project comprises of localised demolition of the existing steel frame canopy enclosure adjacent to the existing early years teaching space to accommodate the addition of a classroom extension. This comprises of the erection of a new single story structure with pitched concrete tiled roof and masonry & feature timber cladded finish

3.1.1 Proposed Development



3.2 Project Details

3.2.1 Details of Client, Contractors, Consultants etc.

Principal Contractor:

Winworth Construction Ltd

Height Barn Farm

Edgeside Lane

Waterfoot

BB4 9TZ

Contact: Jason Winter

Email: Jason@winworthconstruction.co.uk

Tel: 01706 220052

Client:

United Learning

Northern Office

Salford City Academy

Northfleet Road

Peel Green

Eccles

Manchester

M30 7OQ

Quantity Surveyor

Quanta Associates Ltd

St Andrews Place

Hill Lane

Bolton

BL6 5JW

Architect:

ADP Architecture

1Portland Street

Manchester

M1 3BE

Structural Engineer:

Sharp & Scarffe Ltd

5a Chevin Mill

Leeds Road

Otley

West Yorkshire

LS21 1BT

M&E Services Engineer:

Robert Whetam Associates

Castle Hill House

31 Mill Brow

Chadderton

Oldham

OL1 2RT

3.2.2 Programme

The construction duration is expected to 13 weeks from start on site.

Detailed construction programme TBC

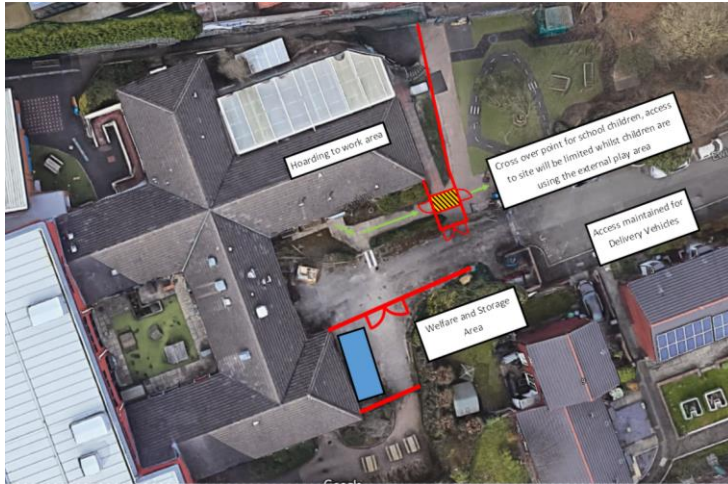
3.2.3 Working Hours

The construction hours will be from 7.30am to 6pm Monday to Friday, Saturday 8.30am to 2pm and will be closed on Sundays and Bank Holidays. There may be certain circumstances where the construction work will be required to take place outside of these hours. If necessary approvals will be sought from the local authority through the normal procedures.

3.2.4 Pre-Start Survey

A Pre-Start survey of the works and surrounding area will be carried out prior to the construction works commencing. This will consist of a photographic aided report on the existing environment including nearby existing structures, boundaries, foot paths, roads, kerb lines, street furniture and road signs. The findings of the survey will be documented and distributed to all relevant parties.

3.2.5 Construction site compounds, welfare and storage



The project offices and welfare facilities will be established to the South of the site compound, the project office will be used by the client and contractors and will be considered a shared facility for the ease of communication, co-ordination and holding project meetings.

Car parking will be provided for 2 contractors vehicles, the proposed car parking area is located within the South side of the work area. Contractors will be instructed to deliver tools and materials to site and park their vehicles on local car parks.

The main offices will have integrated welfare facilities including kitchen/ canteen facilities for staff. Operative welfare facilities including drying rooms and locker rooms will be provided.

All welfare and site office will be constructed from modular anti-vandal containers. The offices and welfare facilities will be provided with a mains power supply, mains water supply, mains sewage drainage and electric heating.

3.2.6 Site Hoarding

The project will be surrounded by herras hoarding on all sides and. The hoarding will include appropriate vehicular gates and pedestrian gates and will be fitted with adequate signage.

Hoarding is to be erected around the welfare and storage area and around the actual site compound. Cravenwood Primary School require access to the playground adjacent to the site for the children, therefore a crossover point will be created, which will tunnel the children through the site access route without coming into contact with any site operations.

3.2.7 Site Set up

All offices, welfare facilities and storage containers will be transported to the site to provide accommodation and welfare and will follow the designated route

Plant will be transported to site to prepare the area for the construction compound and excavate trenches for the installation of services.

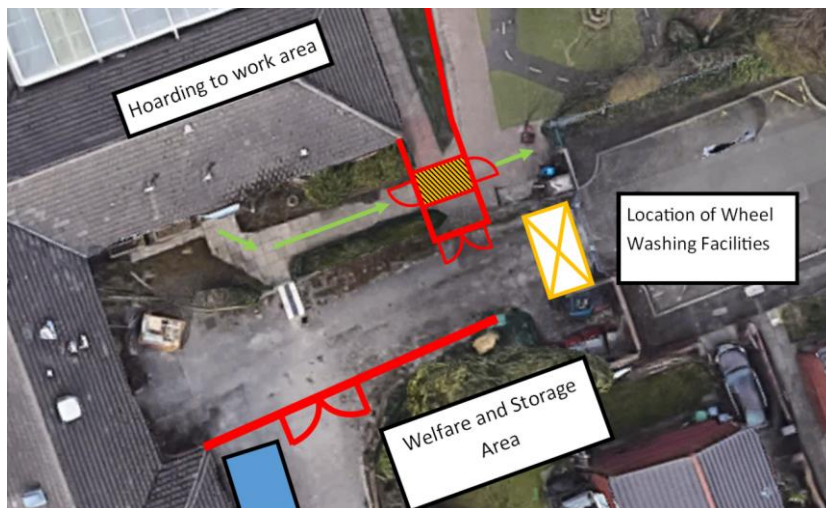
Modular cabins will arrive on site on articulated lorries and positioned using lorry mounted cranes

3.2.8 Wheel washing facilities

Wheel washing facilities will be provided for all vehicles entering site, vehicles entering site will be instructed to unload their goods or load materials and report to the wheel washing station, the vehicle will be switched off and an operative will use a power washer to clean the underside and all wheels of the vehicle leaving site.

The power washer will be supplied by an onsite IBC tank filled with clean water.

All wastewaters will be collected in a sump, allowing sediment to settle and be collected at regular intervals, clean water from this pump will either be allowed to soak away or will be pumped back into the IBC tank for further use.



3.3.2 Construction Works

The works which are to be undertaken to complete the construction of the new development are set out below:

1. Demolition works to be undertaken
2. Piling works undertaken
3. Excavation works for foundations to be undertaken
4. Foundations installed
5. Drainage installed
6. Steel frame installed
7. Roofing works undertaken
8. Building façade installed
9. Windows installed
10. Internal walls
11. 1st Fix M&E
12. Internal wall finishes
13. Ceiling installation
14. Install internal doors
15. 2nd Fix M&E
16. Joinery items
17. Decoration
18. Floor coverings
19. External drainage connections
20. External groundworks – forming pedestrian footpaths
21. External Fencing

Works will be undertaken by various specialist sub-contractors under the supervision of Winworth Construction Ltd.

3.3.3 Dust Level and Monitoring

The following processes have been identified as potentially dust creating operations:

- Excavation
- Cutting, Grinding, Drilling and Sawing
- Cleaning

The following actions will be taken to minimise the amount of dust created and to minimise the impacts of the dust created during the construction works:

- Notify and liaise with the local community with regard to planned dusty works and set up a formal complaints procedure. This notification shall take place prior to works commencing.
- Schedule potentially dusty works in accordance with liaison with the local community to minimise the risk of complaints. Should a complaint be received in regard to the level of dust being created by the works, the operation in question will be suspended immediately. That operation shall not resume until the complaint has been fully satisfied or an alternative method has been approved that creates less dust.
- Prior to commencement of construction activity on site, establish that there is adequate hydration facilities on site to ensure that damping down of the whole site is practicable.
- Any plant used on site should, where possible, be fitted with dust suppressant attachments. For example, any cutting equipment on site should be fitted with either a vacuum device or a constant water feed to suppress any dust created.
- Covering of baulk materials and ensuring that any stockpiles are kept below the height of the site hoarding and positioned with regard for the prevailing wind and proximity to the site boundary and proximity of neighbours. Keeping the loading drop heights of spoil into Lorries as low as possible.
- Ensure that plant and machinery used on site is well maintained to reduce exhaust
- Emissions and ensure that all vehicles leaving the site have been through the wheel wash and that loads are covered where spoil or demolition materials are being removed.

3.3.4 Noise and Vibration

The following processes have been identified as potentially noisy or vibration creating tasks:

- Excavation
- Piling
- Cutting, Grinding, Drilling, Sawing
- Steel erection
- Movement of plant
- Unloading of materials and plant

For all operations Best Practicable Means' (BPM) will be used with regard to minimising the effects of noise and vibration on both properties around the site and the environment in general. These measures shall be consistent with those in BS 5228 which is an approved code of practice under the Control of Pollution Act 1974.

There are three means of reducing noise and vibration effects that shall be considered; Method, Plant and Screening. The approach taken shall be considered against the cost of implementation.

Method

- Change the working method: equipment used or modes of operation can be changed to produce less noise and vibrations.
- Adoption of working hours to restrict noisy and vibration activities.
- Manage day to day site activities to avoid or minimise noise, from e.g. staff shouting, radios, reversing and warning sirens.
- Arrange delivery times to suit the location – as this is predominantly a residential area, deliveries will be timed to occur within the day to minimise disruption.
- Construction vehicle routing shall take account of the need to reduce noise & vibration.

Plant

Noise levels from individual items of plant can vary considerably depending on how they are configured and used.

- Careful selection of plant is essential. Only plant conforming to UK or EU standards shall be brought on site and used.
- Appropriate noise control measures shall be used when noisy equipment is operating e.g. acoustic screens, exhaust sound reduction etc.
- Appropriate vibration control methods are to be implemented e.g. enforce speed restrictions, use acoustic dampers and lowering of loads with care.
- All plant and equipment shall be maintained according to manufacturer's recommendations.
- Items of plant and equipment used intermittently shall be shut down in between use.
- Plant shall be located as far away as practicable from sensitive receptors; and
- Anti-vibration mountings shall be used where appropriate.

Screening

- The perimeter of the site will be fully hoarded off with structural hoarding, effectively creating an acoustic screen between the site and any external properties

The following instructions will be issued to all site workers to assist in minimising construction noise and vibration:

- Do not throw or drop equipment or materials
- Minimise drop height when loading hoppers, tipper lorries, or dump trucks
- Do not leave equipment running when not in use e.g. during breaks or between tasks
- Site noisy equipment away from receptors e.g. houses
- Do not use equipment with damaged or defective silencers

- Secure any loose or vibrating covers on plant or machinery
- Where possible carry out noisy activities away from sensitive receptors
- Do not use radios where they can be heard outside the site
- Do not shout or encourage others to shout unless absolutely necessary e.g. as a warning
- Avoid unnecessary excessive 'revving' of equipment
- Use the lowest practical speed when travelling over rough ground to minimise noise from vehicles, particularly when empty
- Where possible schedule noisy operations during the day rather than at night
- Use appropriate equipment to muffle noise and vibration during noisy operations like tamping
- Keep covers on plant shut whilst it is operating
- Ensure all blades/drill bits are sharpened regularly.

4.0 Traffic Management

4.1 Transport, Access and Highways

Public transport connections to the site are suitable, with a train and bus services connecting the site to the town centre.

By private car, the site is well situated for access to Manchester.

4.2 Access to the site

The primary construction access point will be off Ewing Close, the access strategy will be developed to ensure a clear and accessible and safe network of roads, streets, pathways and cycle ways through and around site.

During the construction period there will be 1 main construction access a banksman will reverse all deliveries down Ewing Close for unloading within the school.

Vehicles accessing site will access from the West and follow Bury Old Road, Seymour Road and Station Road, Vehicles will park on Station Road and wait to be reversed into Ewing Close by a banksman, all vehicles accessing site must call the management team 30 minutes before arrival to allow time for the construction site to prepare for the delivery.

Timings for deliveries and collections will be Mon – Friday 7.00am – 8.30 am, 9.30am – 2.30pm, 3.45pm – 5.00pm, Sat – 8.00am – 1.00pm.

All deliveries will be banked into the compound area for initial off loading and subsequent distribution by forklift. Materials will be unloaded from vehicles to either the compound or bulk storage areas by either forklift or 'hiab' type Lorries. Higher value or weather sensitive materials that are normally stored in containers will be distributed horizontally by all terrain forklifts. They will also be used for the vertical transportation of materials; these will be landed on loaded platforms incorporated into the elevation scaffolds as set out in our Health and Safety procedures. At no time will materials be allowed to be stored in any other areas outside those designated and fenced areas.

Appropriate bases for all use of mobile cranes/rotating forklifts will be required for the erection of timber roof members. These would also be used for the loading out of plasterboard, staircases and the like if required.



5.0 Community

5.1 Community Liaison

Winworth will work with the local community to ensure that all disruption is kept to a minimum, a letter drop will be issued to the local residents and business to inform them of the construction works that will include contact numbers should they encounter any disturbances, following this; monthly newsletters will be distributed to ensure that the local community is kept up to date on the progress of the construction works.

Any out of hours work will be applied for through the correct channels with all residents and local businesses made aware of the work