CONSTRUCTION MANAGEMENT PLAN REV A

Long Sutton, Spalding, PE12 9BP

Construction Works for the erection of 40 no. Residential dwellings



Date Issued	Revision	Prepared By	Checked By	Approved By	Client
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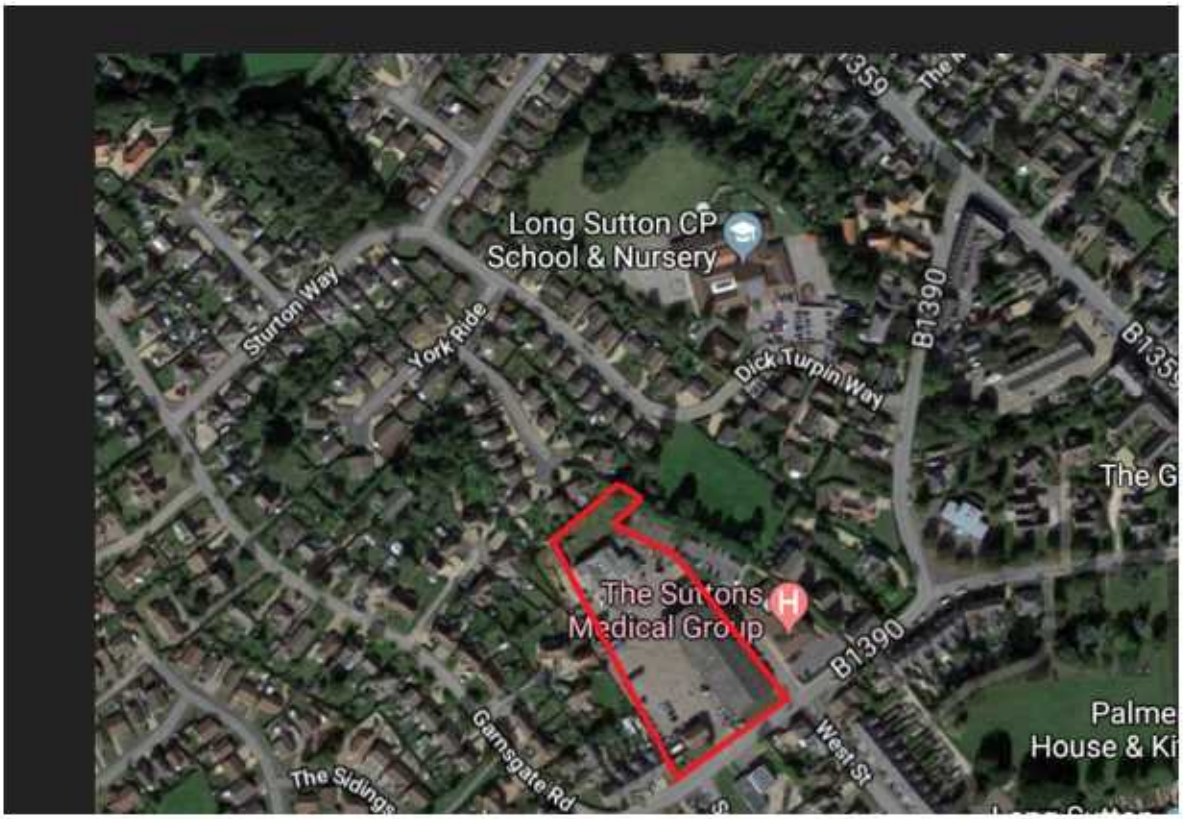
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1.0 INTRODUCTION

This Construction Management Plan (CMP) has been produced to identify the impact that site operations will have on the residents and the general public in close proximity to our scheme on Station Road, Long Sutton. It will also outline the various measures and procedures that will be in place to reduce any adverse effects that our operations will have on the above mentioned parties.

The site Management Team for this scheme will be
Contracts Manager – Rikki Scotford (07392 080513)
Site Manager – Kevin Pearl (07469 353566)
Health and Safety Advisor – James Smith (07553 367422)



2.0 ACCESS AND EGRESS

We will use the existing office building to the left of the entrance as our site office, canteen and toilet facilities. We will set up our storage containers and parking arrangements around this existing building. Storage of materials such as brick, block, timber; these will not be stacked any more than 1.5m high. The site compound entrance will be off Station Road and we will use the existing entrance that is already there. The muster point will be located outside the entrance in case there are any emergencies on site.

The site boundary will use the existing palisade fencing around the current site and other areas will be cordoned off using heras panels to secure the site from intruders and protect the public from site works. The heras fencing panels will have two securing couplers on each fencing panel, as shown below. Decorative displays will be installed to notify neighbours and visitors of site information, final plans/elevations and H&S awareness posters, where possible.

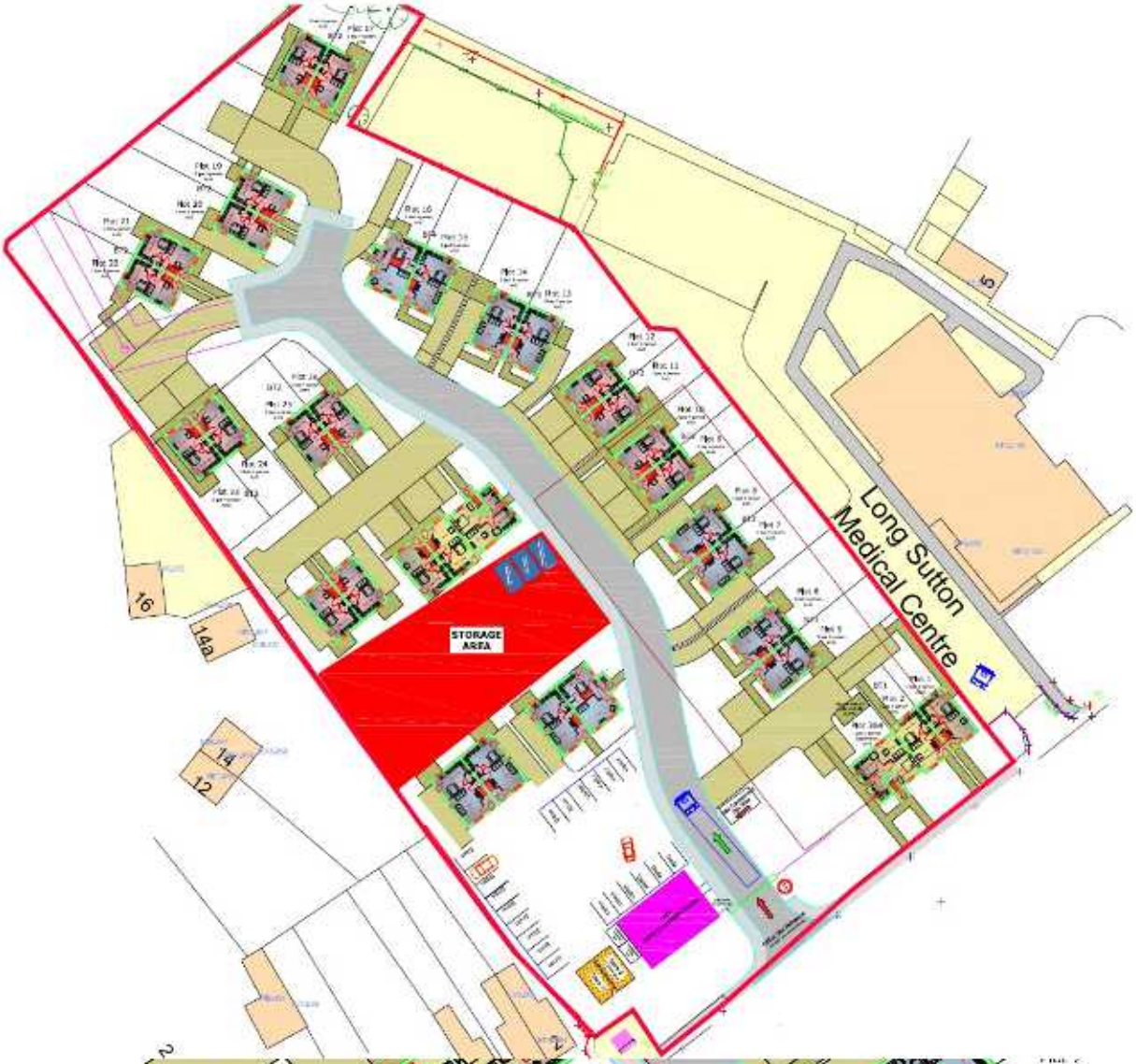


Deliveries will enter the site where they will be off loaded with a forklift and distributed as necessary within the site boundary and storage area. All major deliveries for the site will be delivered to the site storage area.

In the unlikely event where temporary closure of public roads or footpaths is required, the necessary local authorities shall be given adequate notice and all necessary permissions obtained.

Warning signs and direction signs will be erected to help ensure safe site access and egress for deliveries and employees. Signage will be provided to warn the public of contractor plant and vehicles

Some smaller items and plant will be stored in a container near the site accommodation. As shown below the site welfare / accommodation area will have a storage container in addition to a site office, canteen and toilets in the existing building as well as car-parking facilities.


STORAGE AREA
Long Sutton Medical Centre
16
14a
14
12
2


STORAGE AREA
2

3.0 PARKING

Residents and business owners of nearby surrounding areas may be affected by an increase of site traffic on their road, particularly on Station Road. In the event residents may be affected Geda will supply cones to highlight areas in which residents may not park and will communicate with any of the public affected. Geda will source onsite parking for employees.

All site operatives and visitors shall be instructed to park at the designated parking area near on the site compound, there will be 15 spaces available. There will be ample room for turning near these parking spaces and near to the site offices. Approach roads shall be monitored on a regular basis to ensure that all drivers comply.

4.0 PEDESTRIANS

Pedestrians should remain unaffected by site works, however should this change a barrier arrangement will be set out and will ensure that safe interfaces are provided and care shall be taken to ensure these are maintained at all times.

Advanced warning signage shall be posted on the footpath. Safe Designated walkways will be created around other working areas to separate pedestrians from construction related hazards and vehicles where necessary.

Pedestrian routes and crossing points will be sign posted in accordance with the Traffic Signs Regulations and General Directions 2002, (SR. **2002 No. 3113**),and the Traffic Signs Manual 1991 Chapter 8 (Traffic Safety Measures for Roadworks). All site personnel will be made aware of pedestrian routes through signage, inductions and toolbox talks. A cleaning facility for boots will be installed to avoid mud being carried from site into the site accommodation.

Appropriate PPE; high visibility clothing and adequate footwear must be worn by all site personnel and visitors at all times. High visibility clothing will be maintained in a clean and serviceable condition by the user and replaced as necessary by the user's employer.

5.0 SITE ROADS / TRAFFIC

All site roads will be maintained in a safe condition, free from materials and other obstructions. During periods when Geda will be removing topsoil and excavated material from the site, a trained banksman will be employed to ensure the safe entering and exiting of lorries to the site. Any waste transfer vehicles taking excavated material off site will employ the use of sheeted vehicles/lorries.

The wheels of each lorry will be thoroughly washed down before exiting the main site to minimise the potential for the road to become affected by dirt from these operations. If at any time the road condition does suffer from excess dirt, then road sweeper will be employed to thoroughly sweep and maintain the road to an acceptable standard.

A road inspection register will be in place to inspect the condition of the road; this will be signed of three times per day. During times of muck shifting these

inspections will take place on an hourly basis. Road sweeping by mechanical means will be on standby to be used if necessary.

During extended dry periods of weather, the site roads will be dampened down using the site water bowser to reduce the risk of dust rising and causing a nuisance to surrounding residents and the general public.

6.0 SPEED LIMITS

A 10mph speed limit will be implemented for all site related traffic turning off Station road into the site development.

This will be communicated to all our sub contractors, suppliers and all site operatives and drivers will be briefed during the initial site induction and then periodically through frequent tool box talks on this subject.

All site personnel will be required to sign off that they understand and will abide by these restrictions on speed limits. All site operatives will be made aware of the close proximity to the school and that speed restrictions must be adhered to.

7.0 VEHICLES

All site vehicles must be maintained in good condition to MOT standards and loaded in such a way that they can be driven, operated or towed safely. All lorries will be used with the support of a banksmen on every occasion. All vehicles will be off loaded in a safe vehicle drop off zone.

Vehicles should, wherever possible, be fitted with reversing alarms. No vehicle may reverse onto site or offsite without a banksman in attendance.
All vehicle drivers will be issued with a copy of the **Drivers Safety Rules.**

At our peak time on the construction project we envisage the maximum number of delivery vehicles on the main site per day to be approximately 3-4. When appointing sub-contractors we encourage them to travel to site together in one vehicle where possible to reduce site parking requirements. An environmental benefit is that it will reduce congestion in the area. The vehicles will consist mostly of cars and small vans for site staff. We would expect the maximum number of staff and visitor vehicles per day over the duration of the project to be 10.

Deliveries will be mostly by small rigid style trucks (approx 20 foot – 30 foot long) and vans (approx 10 foot long); we expect the deliveries to site to be in the region of 3-4 per day. These will be co-ordinated around rush hour traffic in the area. In some instances larger articulated trucks may be required for larger items, we will however endeavour to keep these deliveries to a minimum.

8.0 MOBILE PLANT

A Mobile Plant Register shall be completed prior to putting any item of mobile plant into use at the site - this shall be retained and reviewed by Geda Site Manager.

Where appropriate, mobile plant and equipment used on site must conform to the requirements of the Provision and Use of Work Equipment Regulations 1993 (PUWER) and the Lifting Operations and Lifting Equipment Regulations 1998 (LOLER).

All items of mobile plant on site will be maintained safely and operated by competent, certificated (CPCS/CSR/ITSSAR, etc) operators. Operator cards will be checked and a copy taken by the Geda Site Manager. All drivers of mobile plant will be instructed to turn off their engines while not in use. If on occasion, the use of high noise level machinery is required, then acoustic panels will be used to screen the nearby residential properties from the increased noise levels.

Any excavator or other item of plant working with less than 600mm clearance between it and any obstacle where a person may become trapped will be effectively barriered off and warning signs erected to prevent persons entering the “Crushing Zone”. Lifting zones shall be suitably barriered off to prevent unauthorised access with suitable signs warning of the hazard.

When leaving a vehicle or item of mobile plant unattended, the ignition keys must be removed to prevent un-authorised operation.

9.0 SIGNS

Suitable and sufficient signs will be erected as required at prominent positions around the working area to indicate:-

- Construction works warning
- Pedestrian Access and Crossings
- No Parking Areas, etc.
- Directions to Site,
- Speed Warnings,

Any signs used in connection with traffic control shall comply with the Traffic Signs Regulations and General Directions 2002, (SR. **2002 No. 3113**) the Traffic Signs Manual 1991 Chapter 8 (Traffic Safety Measures for Roadworks) and the Highway Code for use on the public highway.

10.0 STORAGE AND LAYDOWN AREAS

The site storage areas will be used to store any excavated materials and other bulky items to avoid congesting public access routes. Spoil heaps will be stored in a designated section of the compound and its banks will be battered back to slopes of 1:1 and will be covered with light gauge polythene to prevent any dust migration to areas outside the site boundary.

Areas for the unloading and short term storage of plant and materials will be identified local to the working areas or allocated areas agreed for each Work Package. Prior to offloading plant/equipment/materials, contractors must first seek permission from the Geda Site Manager. Geda will seek to ensure there is minimal traffic disruption and that all delivery / plant activity is kept within the confines of the works boundary.

All site operatives are to ensure that materials, etc are stored and kept in a neat and tidy condition and that safe access/egress is maintained within the storage areas.

11.0 SITE DELIVERIES & WASTE DISPOSAL/RECYCLING

Consideration shall be given at all times to the impact of construction traffic on Station road.

Clear directional signage to “Geda Construction Site” will be posted along main delivery routes to ensure drivers follow the designated route and avoid causing congestion. All delivery drivers and visitors will be given clear directions prior to arriving at site and guide provided if necessary.
Deliveries will only be scheduled during the daytime working hours of 7.30am - 6.00pm.

The site will follow our Site Waste Management Plan which operates a strict waste minimisation programme. This identifies early on in the project a plan for what waste types will be produced on site and how we can reduce/reuse various materials onsite. Timber, plastics, cardboard and general waste will all have designated skips which will have manual covers placed over them when not in use to prevent any loose waste being blown across site or outside of the site boundary.



The Site Manager is responsible for ensuring that skips are removed promptly (when full) by a licensed waste contractor (and to a licensed landfill site). Metal waste should be separated and offered (for purchase) to a specialist skip company. Re-use of materials e.g. re-use pallets as many times as possible before recycling them, re-use packaging to protect worktops of new kitchens etc.

It is up to the **Site Manager** to check that these details are completed on the WTN before skips / lorries leave site. If **site operatives** are completing / receiving the WTN, the onus is still on the **Site Manager** to ensure all details are correct. An example WTN should be obtained from each haulier / skip company by the QS before appointment.

Certain sites will require excavated material to be removed from the site or, alternatively to be in-filled with material from off site.

Hazardous waste (e.g. asbestos, contaminated land) must have a Waste Consignment Note (WCN) and a carriers / tip license that allow this specific type of waste to be carried / tipped. Demolition contractors need to provide licenses and WTN samples before appointment.

12.0 Noise / Dust & Vibration

Sufficient Risk Assessment shall be undertaken to ensure that any Noise and Vibration exposure limits are not exceeded and all operations comply with Control of Noise at Work Regulations and Control of Vibration at Work Regulations.
Work place noise levels shall be restricted to 80dB(A) or lower where practicable

All plant & equipment shall comply generally with BS5228. All compressors, percussion tools and vehicles shall be fitted with effective silencers of a type recommended by manufacturers of the compressors, tools or vehicles.
Site deliveries will only be permitted during the daytime working hours of 8am -6pm

Hearing protection will be used where required and decibel reading instrument will be kept on site to monitor noise levels daily.
Working hours will be kept 07.30 – 18:00 Mon – Fri and 8.30 – 1:00pm on Sat. No work will be carried out on Sunday and Bank Holidays, Working outside of these hours will not be permitted unless approved in writing by the Local Planning Authority.

Vibration - Hand arm vibration and whole body vibration will be reduced to recommended exposure levels. This will be done by using the correct plant and PPE.

Pneumatic drills and other noisy appliances shall not be used during evening work without consent of the Project Manager.
Employees shall not be permitted to use radios or other audio equipment in ways or at times which may cause nuisance.

Dust supression
Where any concrete / stone cutting or drilling operations are required the correct PPE is to be worn and dust suppression in the form of water filled suppression kit is to be used to mitigate the spread of potentially harmful dust particles. All operatives on site will receive a tool box talk on this important topic.

Site operatives will be instructed on the safe use and handling of products or materials which may expose them to harmful vapours or dusts. Suitable PPE will be provided and must be worn at all times. Geda shall manage dusts on the assumption that all types are harmful and ensure that abrasive cutting of materials and disturbance of dust is kept to a minimum so as to avoid particles contaminating the air.

Dust suppressing / extraction measures will be used where practicable to protect workers and the public. Operations known to generate dust will be undertaken in a well ventilated area. Eye protection and suitable respirators will be worn where risk prevails.

In the event of dry weather, dust suppression will be required on the site access road and nearby roads. This will include damping down roads with a bowser and appropriate equipment, enforcing slower speeds for plan and delivery vehicles, and protecting activities/materials from wind that could make dust issues worse.

13.0 Considerate Constructor Scheme

This site will be registered with the Considerate Constructors Scheme. One of the key aims of the scheme is to Respect the Community.
As members of this scheme, we at Geda are committed to giving the utmost consideration to the impact of our sites on neighbours and the public using the following points as guidelines.

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

14.0 Soil Remediation

Asbestos / Contamination in Soils / Subsoils

During the recent ground investigation / soil testing undertaken at the site, asbestos contamination has been identified in made ground soils, in one location in the back gardens of plots 1-20. Asbestos has not been identified in any other location on the site although the testing did conclude that the subsoils to the remainder of the gardens contain some elevated levels of contamination that will need remediated.

It has been agreed with the EHO and the Planning Authority that all soft landscaped areas in back gardens of plots 1-20 will be remediated. This will be completed by removing the soil and subsoil to a maximum depth of 900mm and then replaced with clean inert sub soil / topsoil. The gardens will then be reinstated to their prior condition, with returfing / planting as required.

It is proposed that the following procedures are to be adopted during the process of replacing this material:

- Homeowners will be formally notified of the works by means of a letter drop and a follow up meeting with each plot. They will be briefed on the operation

to remove the soils / subsoils and safety precautions that will be in place. All measures will be taken to ensure the safety of the homeowners

- Task specific risk assessments and method statements will be in place, and risks that require mitigation measures will be communicated to all relevant personnel prior to the works commencing. Appropriate PPE, and if required, RPE will be provided and utilised at all times during the soil / subsoil removal.

- Groundworkers who are required to perform the excavation work will be made aware of the known low-level contaminants in soil and groundwater and the possibility of encountering additional localised low levels of contamination (including Asbestos Containing Materials (ACM)). Therefore, good standards of personal hygiene should be observed and appropriate levels of personal protective equipment (PPE) and respiratory protective equipment (RPE) utilised where necessary.

- Any visible fragments of suspected asbestos containing materials on the site surface will be hand-picked and placed in a dedicated spoil heap pending off-site disposal to a suitably licensed facility.

- Areas of identified or suspected asbestos contamination will be carefully excavated under close supervision by Geda Construction staff and periodic visits by Marcus Hanford - Emcus Ltd geotechnical engineer.

- The excavation and any temporary stockpiles of all potentially asbestos containing soils will be dampened using water sprinklers attached to the site water supply. This dampening down process will help prevent the release of asbestos fibres. Air quality monitoring will also be used to monitor the air quality in the area during the excavation process.

- Suspected asbestos containing soils will be placed in a dedicated temporary stockpile which will be covered by polythene and plywood sheeting pending off-Site disposal at an appropriately licensed facility

- Extreme care to be taken to avoid cross contamination when removing the existing soils and replacing with new inert material. Excavator tracks and buckets to be thoroughly cleaned following the excavation of the subsoils before the replacement soils are handled. All Machinery used in the process will be thoroughly cleaned down on completion of the works before they are transported to another site. Photographic evidence will be available to confirm this.

- All waste transfer notes for material off taken off site and imported replacement material will be kept on file and be available for inspection by the relevant personnel from the Planning Authority.

- A soil remediation validation report will be submitted to the Planning Authority following completion of the works as per Emcus Ltd proposals contained within the revised remediation strategy submitted.

Long Sutton – Traffic Warning sign and Site Direction

