



Elettra Avenue, Waterlooville

Construction and Environment Management Plan

June 2025

Waterman Infrastructure & Environment Ltd

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This document has been prepared and checked in accordance with
 Waterman Group's IMS (BS EN ISO 9001: 2015, BS EN ISO 14001: 2015 and BS EN ISO 45001:2018)

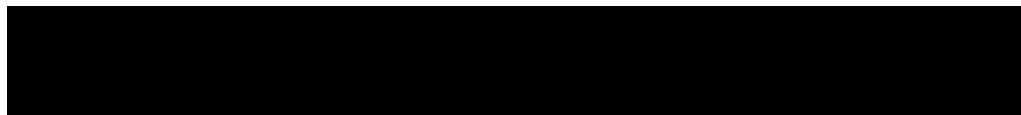
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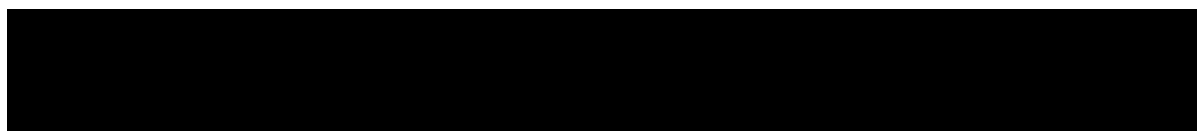
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Revision		Status	
Pnn	Preliminary (shared; non-contractual)	S1	Coordination
Cnn	Contractual	S2	Information

	S3	Review & Comment
	S4	Review & Authorise
	S5	Review & Acceptance
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Disclaimer

This report has been prepared by Waterman Infrastructure & Environment Ltd, with all reasonable skill, care and diligence within the terms of the Contract with the client, incorporation of our General Terms and Condition of Business and taking account of the resources devoted to us by agreement with the client.

We disclaim any responsibility to the client and others in respect of any matters outside the scope of the above.

This report is confidential to the client and we accept no responsibility of whatsoever nature to third parties to whom this report, or any part thereof, is made known. Any such party relies on the report at its own risk.

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- D. Site Compound
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Contents

1. Introduction

- 1.1 This report has been prepared by Waterman Infrastructure & Environment Ltd (Waterman) on behalf of Hargreaves (the 'Applicant') to support a Full Planning Application for a proposed development at Waterloo Park, Elettra Avenue, Waterlooville (the 'Site'). The Site is located within the administrative boundary of Havant Borough Council (HBC).

Proposed Development

- 1.2 The 'Proposed Development' comprises the two drive-thru units, a retail unit and associated car and bicycle parking.
- 1.3 A Proposed Development plan can be found in **Appendix A**.

Purpose & Scope

- 1.4 The purpose of this Construction Environmental Management Plan (CEMP) is to avoid, minimise or mitigate any construction effects on the environment and the surrounding community and:
- Ensure compliance with all applicable legislation & statutory controls – this includes planning conditions, Section agreements and landowner/client's environmental requirements;
 - Deliver best practicable environmental performance – this means preventing pollution, minimising adverse environmental impacts and securing the potential benefits associated with higher standards of environmental performance;
 - State the measures to minimise the environmental impacts of noise, vibration, odours, dust and fumes resulting from construction; and
 - State the measures to ensure that construction works do not adversely affect biodiversity.

2. Site Management

Site Personnel

2.1 The project team is detailed as follows (Note: Contractor details to be provided once appointed):

Savills - Client Representative

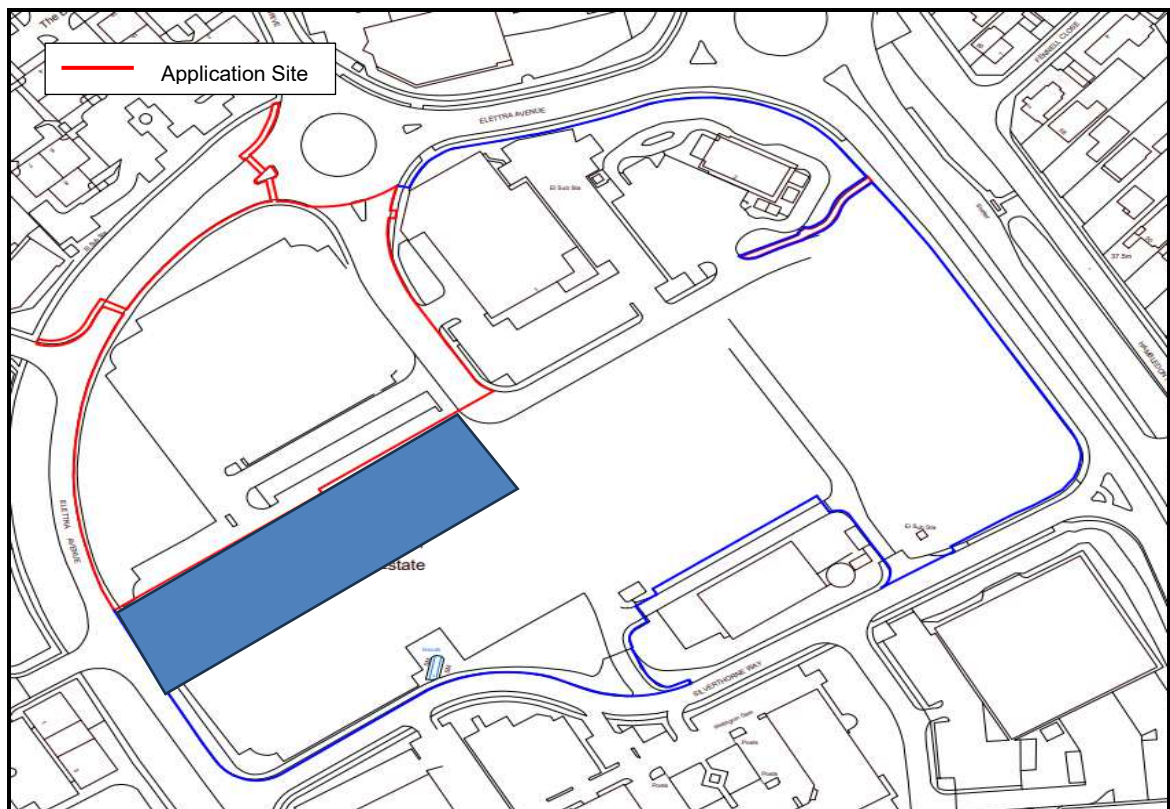
Stewart Russell, Surveyor, 55 Colmore Row, Birmingham, B3 2AA

Development site layout and welfare arrangements

2.2 The construction compound will be located on the adjacent plot immediately south of the Application site. The application boundary and construction compound for the site (red line) is shown in **Figure 1** below. The construction compound is shown in Figure 1, as a blue rectangle.

The site compound details are shown in Appendix D.

Figure 1: Site Boundary



Site security

2.3 As the works are taking place within and near to existing local amenities, herras fencing will be installed only. There will however be no access to pedestrians near to the construction works.

Parking

- 2.4 Contractor and visitor parking will be provided within the site compound. There will be no parking elsewhere on site. If vehicles are parked in construction areas, for unloading materials and the like the vehicle must be returned to the designated parking area as soon as possible.
- 2.5 The parking of construction vehicles and private vehicles on highways outside of the construction area is not permitted.
- 2.6 Refer to document 21641101-WAT-XX-XX-RP-2-P05 for further details including the "Vehicle Movement & Parking Schedule" which indicates the estimated number of vehicle movements as well as operatives that will attend site. The schedule demonstrates that at the peak of operations 50no parking spaces will be required. Furthermore the "Site Setup" layout indicates the proposed welfare, logistics and parking arrangements which demonstrates designated parking areas within the site extent to accommodate 64no vehicles.

Welfare Facilities

- 2.7 This site compound will have the following welfare facilities:
- Adequate Toilets for anticipated numbers on site;
 - Area for the preparation and consumption of food;
 - Changing Room
 - Site Managers Office & Meeting Room.
- 2.8 The following will be provided and maintained throughout the project:
- Segregated and delineated pedestrian / visitor entrance
 - Visitors Book
 - Heated, lit and ventilated accommodation for shelter and the taking of food and drink
 - Facility for the changing, storing and/or drying of soiled or wet clothing
 - Wholesome drinking water and suitable cups
 - Means of boiling water
 - Means of heating food
 - Male and female lit toilets
 - Toilet paper and paper towels or equipment for drying
 - Skincare dispenser, (DEB board)
- 2.9 Smoking is prohibited in ALL offices / rooms and similar enclosed spaces and will only be permitted in the designated (appropriately signed) non enclosed area.

Protective Equipment

- 2.10 Contractors and visitors wishing to access the site work environment must wear the following PPE: Safety helmets, hi visibility clothing and safety footwear, following Mildren policy, as outlined in the risk assessment.
- 2.11 Contractor's task specific risk assessment shall be carried out and protective equipment identified in that assessment shall be worn.

2.12 Contact details for the following roles would be made available to Havant Borough Council following appointment.

- The project manager with day-to-day responsibility for the development (if different to the above) including monitoring compliance with the construction management plan.
- The person responsible for community liaison and dealing with any complaints from members of the public, regulatory bodies, and occupiers of other adjacent premises.
- The head office or registered address of the main contractor with responsibility for implementation of the construction management plan; and
- The address where the main contractor's company accept receipt of legal documents is.

Site Operative Training and Competency

- 2.13 All site operatives will be required to complete appropriate training to ensure they are competent to carry out their duties safely, efficiently, and in compliance with environmental and health and safety regulations. As a minimum, operatives must hold a valid CSCS (Construction Skills Certification Scheme) card or equivalent. Site-specific inductions will be conducted prior to commencing work, covering key topics such as site rules, emergency procedures, environmental protection measures, waste management protocols, and hazard awareness.
- 2.14 Additional training will be provided where relevant, including:
- Manual handling
 - Working at height
 - Use of plant and machinery
 - Spill response and pollution prevention
 - Waste segregation and recycling procedures
 - Fire safety and first aid awareness
- 2.15 Refresher training and toolbox talks will be delivered regularly to reinforce best practices and address any emerging site-specific risks. Records of all training will be maintained and made available for inspection as required.

Pedestrian Safety Measures and Temporary Footpath Closure

- 2.16 To ensure safe pedestrian movement on public highways and footpaths, a range of measures are implemented, including the provision of clearly marked pedestrian crossings, adequate street lighting, and the maintenance of smooth, unobstructed walking surfaces.
- 2.17 Signage and pedestrian priority zones will be provided to help reduce vehicle speeds in high-footfall areas.
- 2.18 Temporary barriers and signage are used during construction or maintenance works to guide pedestrians safely around work zones. Accessibility features such as ramps are also recommended to accommodate individuals with mobility challenges.
- 2.19 As part of ongoing infrastructure improvements, the private footpath from Hambledon Road will be temporarily closed while footpath widening and cycle improvement works are carried out, in accordance with the consented scheme. Traffic Management plans will be drafted and submitted as

part of the TTRO and road space application, as part of the various S278 works. This will specifically outline the pedestrian traffic diversions. A proposed pedestrian diversion is shown in **Appendix C**.

3. Community liaison and communication, including complaints procedure

- 3.1 The following would be provided:
- i. A display board would be prominently displayed. The board would detail the nature of the works being undertaken, a contact name, telephone number (including a telephone number to be used outside normal working hours), and a postal address where any enquiries can be sent.
 - ii. A telephone number would be provided to local residents and businesses whilst the development works are taking place (in order to respond to any enquiries and complaints).
 - iii. A complaints register shall be kept and shall include complainant's details, date and time of the complaint, cause(s) of the complaint, action taken to resolve the complaint, date and time of action taken to resolve the complaint, and reasons for any unresolved complaints.
- 3.2 All subcontractors are expected to minimise the impact of their works on the local community.
- 3.3 The contractor will identify potential nuisance issues at the pre-start meeting and ensure that they are included in site inductions, but these should also be covered in the subcontractor's conditions.
- 3.4 All complaints received will be investigated and a response (even if pending further investigation) is to be given to the complainant as soon as reasonably practicable. Incidents relating to nuisance (e.g. complaints relating to noise, dust, vibration, mud on roads etc. made by the public, clients or Environmental Health Officers) shall be reported internally in accordance with the contractors Incident and Near Miss Reporting Standard (SHEMS-STD-GR-011).
- 3.5 Mildren Construction are the appointed contractor and will be the main point of contact. The contact person will be advised prior to commencement of on site works.

4. Site operations

Essential requirements

- 4.1 In accordance with standard practice working hours is as follows:
- 0800am to 1800pm Monday to Friday (with close down between 1800 & 1830);
 - 0800am to 1200pm on Saturday (with close down between 1230 & 1300); and
 - No works would take place on Sundays or Bank Holidays.
- 4.2 No plant, machinery or equipment associated with such works shall be started up or operational on the development site outside of these permitted hours.
- 4.3 Bank and Public holidays for this purpose shall be: Christmas Day; Boxing Day; New Year's Day; Good Friday; Easter Monday; May Day; spring Bank Holiday Monday and August Bank Holiday Monday.
- 4.4 All sub-contractors shall be made aware of the permitted working hours.
- Refer to document 21641101-WAT-XX-XX-RP-2-P05, section 4.7 for details of vehicle numbers and types.

Deliveries and transport of materials, plant, and equipment to site

- 4.5 Deliveries including the transport of materials, plant, and equipment to the development site shall only take place during the following hours:
- 08:00 to 15:00 on Monday to Friday;
 - 08:00 to 12:00 on Saturdays; and,
 - No deliveries on Sundays or Public Holidays.
- 4.6 Any deliveries outside the above hours cannot be undertaken without prior written approval of the local highway authority. References should be made to specific agreement with the Highway Authority before any changes to the agreed construction hours are implemented by the contractor.
- 4.7 Delivery vehicles shall not be permitted to wait, queue, or circulate on the public highway when the development site is not open for deliveries.

Secure Storage and Spill Prevention Measures

- 4.8 To ensure environmental protection, all fuel, chemicals, and other potentially hazardous materials will be stored in secure, designated storage areas within the site compound.
- 4.9 These areas will be clearly marked, bunded, and located away from drainage systems to prevent contamination in the event of a spill. Storage containers will be robust, fit for purpose, and regularly inspected for signs of damage or leakage.
- 4.10 Spill kits and containment equipment will be readily available at all storage locations, and site personnel will be trained in their use.
- 4.11 Refuelling and maintenance of machinery will take place in controlled areas with appropriate spill prevention measures in place.
- 4.12 These protocols are designed to minimise the risk of accidental release and ensure the protection of human health and the surrounding environment throughout the construction period.

Routing Strategy

4.13 The proposed construction traffic routing strategy is based on the following principles:

- Provide safe and efficient construction access for the proposed development;
- Reduce as far as reasonably practicable and mitigate to acceptable levels disruption to the public;
- Where practical use the shortest route between the access point and the Strategic Road Network;
- Avoid routes through local villages such as Purbrook, Cowplain etc;
- As far as reasonably practicable avoid sensitive receptors; and
- Use of temporary access points in order to reduce impacts on the local road network.

4.14 Construction vehicles would route via the A3(M). Vehicles will leave the A3(M) at Junction 3 and head along Hulbert Road (B2150). From there they will travel up to the roundabout where Hulbert Road and Hambledon Road (B2150) meet, following Hambledon Road until they reach the Roundabout at which point it meets Elettra Avenue and turn left into the site. All construction vehicle movements associated with the site shall follow the route via the A3 as set out above.

4.15 Full details on the routing of construction vehicles is detailed in the Construction Traffic Management Plan.

Noise and vibration

4.16 Essential requirements:

- i. All vehicles and plant used during the development will be maintained in good and efficient working order, and in accordance with manufacturer's specification.
- ii. All vehicles, mechanical plant, and machinery used during the development shall be fitted with proper and effective silencers (where available) and shall be maintained in good and efficient working order.
- iii. All plant and machinery in intermittent use shall be shut down in the intervening periods between works. Engines of plant, machinery, and lorries shall be turned off at all times when not in use.
- iv. Plant and machinery capable of generating significant noise and vibration levels will be operated in a manner to restrict its duration.
- v. Static plant and machinery shall be sited as far away as possible from inhabited buildings or other noise sensitive locations.
- vi. All compressors shall be 'noise reduced' models that are fitted with properly lined and sealed acoustic covers which shall be kept closed whenever the machines are in use. All ancillary pneumatic percussion tools shall be fitted with mufflers or silencers of the type recommended by the manufacturers.
- vii. Wherever possible mains electricity or battery powered equipment shall be used instead of diesel or petrol powered generators.
- viii. All generators used on site should not be audible at or beyond the site boundary outside of approved working hours.
- ix. The handling of materials shall be conducted in such a manner that minimises noise, including minimising drop heights into hoppers and lorries.

- x. No stereos or similar amplified devices shall be audible at the site boundary.

Dust

4.17 Essential requirements

- i. All plant and equipment shall be maintained in accordance with manufacturer's recommendations to ensure emissions to atmosphere are minimised.
- ii. Any equipment used to cut paving blocks, kerbs, flagstones etc. shall be operated with a water suppression attachment or a dust filter.
- iii. Delivery activities, plant, stockpiled materials and/or any other activities liable to significant dust generation shall be located as far away as possible from the development site boundaries and neighbouring properties.
- iv. Stored materials liable to dust generation shall be dampened down, covered with tarpaulin, or otherwise contained in bunded areas or in silos.
- v. Drop heights from conveyors, loading shovels, hoppers, and other loading or handling equipment shall be minimised, and fine water sprays should be used on equipment where necessary.
- vi. Skips, chutes, and conveyors shall be covered and if necessary enclosed to ensure that dust does not escape.
- vii. All vehicles carrying dusty materials shall be securely covered.
- viii. The speed limit for surfaced roads is to be 15mph, and the limit for unsurfaced roads is 10mph.
- ix. Water suppression shall be used in dry conditions to reduce dust emissions (e.g. mobile bowsers or fixed sprayers as appropriate). A water suppression contingency plan should be included detailing water supply to site and what equipment will be kept available (e.g. number and size of bowsers, sprinklers, mist canons etc.)
- x. There is an existing site water supply which shall be used to supply water for dust suppression. Refer to Appendix E.
- xi. Areas where there is regular vehicular movement should have a consolidated surface which shall be kept in good repair.
- xii. The site manager/responsible person shall carry out daily inspections for dust emissions from site, crossing the boundary, and maintains a log to be made available to the local authority upon request.

Air Quality

- 4.18 Where development sites will be using non-road mobile machinery (NRMM) with a net power between 37kW and 560kW it will be required to meet the standards set out below. These standards are applicable to both variable and constant speed engines and apply for both particulate matter (PM) and nitrogen oxide (NOx) emissions. These standards should be read in conjunction with Havant Borough Council's Air Quality policies and other relevant standards:
- i. Clean Air Act 1993
 - ii. Environment Act 1995

- iii. NRMM used on any construction or demolition site within urban areas will be required to meet Stage IIIB of EU Directive 97/68/EC (as amended) as a minimum.
 - iv. NRMM used on any MEDIUM or MAJOR classified development will be required to meet Stage IV of EU Directive 97/68/EC (as amended) as a minimum.
 - v. The requirements may be met using the following techniques;
 - (a) Reorganisation of NRMM fleet
 - (b) Replacing equipment (with new or second-hand equipment which meets the policy)
 - (c) Retrofit abatement technologies
 - (d) Re-engining.
- 4.19 All eligible NRMM should meet the standards above unless it can be demonstrated that the machinery is not available or that a comprehensive retrofit to meet both PM and NOx emission standards is not feasible.

Mud

Essential requirement

- 4.20 Regular sweeping of access roads to the site must be carried out where mud is likely to affect highway safety. In dry conditions damping down of road surfaces on site will be carried out to control dust. A vehicle wheel wash will be provided to minimise carry-over to the highway.
- 4.21 The Contractor shall install wheel washing or other approved facilities at all exits from the Site and shall ensure that all vehicles leaving the site are adequately cleaned and covered.
- 4.22 The Contractor shall keep all public roads free of mud gravel, debris, dirt and dust at all times.
- 4.23 The Contractor shall use road sweeper/s and / or other approved means to keep all public roads free of mud gravel, debris, dirt and dust at all times.

Artificial Lighting

- 4.24 The following strategies are considered to minimise the impacts of artificial lighting:
 - Only using lighting where and when necessary;
 - Reducing the operating time of lighting and levels of illuminance provided via:
 - Variable lighting – dimming the lighting of roads during periods of reduced usage e.g. between midnight and 06:00;
 - Trimming – reducing the time the lighting systems are switched on by using high quality accurate electric control system or the usage of movement sensors;
 - Part-night operation – turning off lights between certain hours e.g. midnight and 06:00.
 - Installing lighting systems that deliver no greater than a 3-lux average illuminance, with a maximum horizontal illuminance of 0.6 uniformity (subject to appropriate maintenance factors)
 - Avoiding light spill via:
 - The use of directional lighting by using luminaires with an upwards lighting ratio of zero; and
 - Consideration to the height and spacing between lighting columns where practicable. Examples include stud LED or footpath lighting.

Light Type

- 4.25 Use lamps that minimise UV emissions or use UV filters to reduce the attractiveness of the lamp to invertebrates.
- 4.26 Use high-pressure sodium or LED lamps, ideally warm white as this has a low relative attractiveness of invertebrates.

Trees

- 4.27 All trees are to be removed within the site boundary, however trees adjacent to the south-west corner of the site are to be retained. Due to the retained trees a Construction Exclusion Zone will be required. For information on tree removal, the tree protection plan is included in **Appendix B**.

Construction Exclusion Zone

- 4.28 A **Construction Exclusion Zone (CEZ)** will be established around the retained trees where no unauthorised access or construction operations (including Site compounds / facilities / storage of materials) are permitted to protect the ground from compaction or excavation and canopies from physical damage. This will be secured by means of temporary protective fencing with weatherproof signage.
- 4.29 Following the principles set out in section 6.2.2 of BS5837, these barriers should be “fit for the purpose of excluding construction activity and appropriate to the degree and proximity of the work taking place around the retained trees”. In this instance, the barriers will consist of a vertical and horizontal scaffold framework, well braced to resist impacts, as illustrated in Figure 2. The vertical tubes should be spaced at a maximum interval of 3 m and driven securely into the ground. Onto this framework, welded mesh panels will be securely fixed. Care will be exercised when locating the vertical poles to avoid underground services and, in the case of the bracing poles, also to avoid contact with structural roots.
- 4.30 All weather notices should be secured to the barrier, examples of which are contained in **Figure 3**.
- 4.31 The tree protection barriers will be installed after any tree works have been completed, but prior to any other construction or demolition works commencing on Site.

Figure 2: Tree Protection Barrier

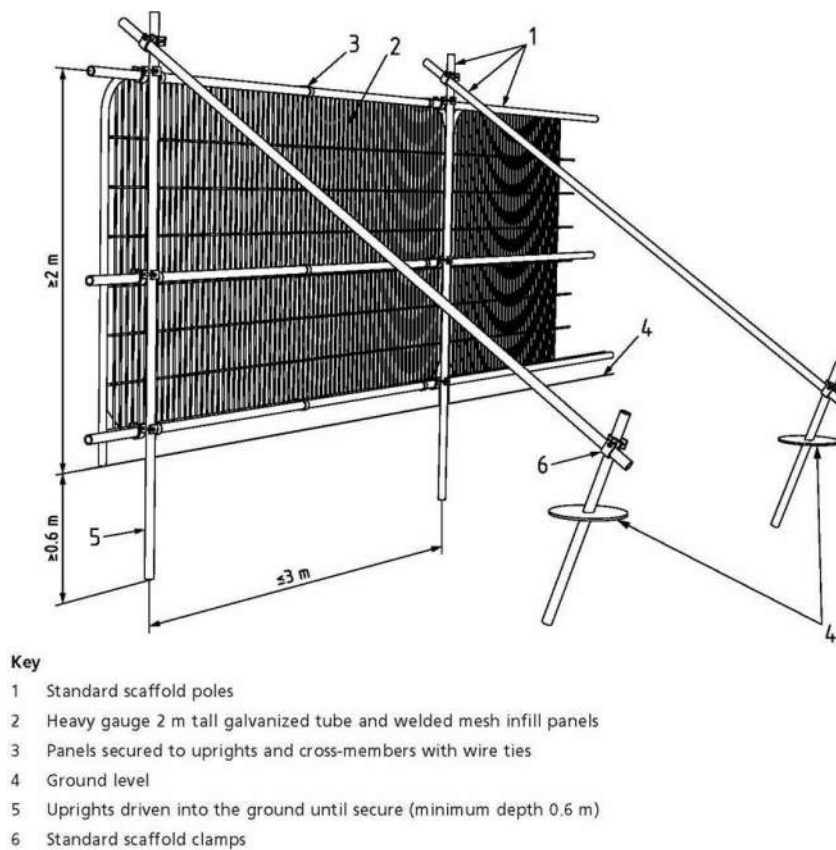


Figure 3: Tree Protection Barrier Sign



Construction Working Area

- 4.32 To allow the construction in areas in close proximity to retained trees, Root Protection Area (RPA) will remain within the CEZ. Outside of these areas will become a **Construction Working Area (CWA)**. All demolition and construction work affecting the CWA will be carefully planned and executed to manage and minimise damage to the retained trees.
- 4.33 The location/extent of the CWA should be identified and marked on site prior to the commencement of any demolition or construction operations. In addition to the principals outlined within BS5837:2012, it is therefore recommended that the works within the CWA are planned and developed using the following method statement which includes, (but is not limited to);
- Select site access routes and construction plant that can safely access the Site given the physical constraints imposed by the height of the existing retained tree canopies;
 - For construction purposes, systems for the control and suppression of dust, hydrocarbons, cementitious and other phytotoxic elements should be employed to prevent damage to the adjacent trees;
 - Do not store materials or construction plant within the canopy spread or RPA of trees to be retained;
 - Any kerbs or edgings will also be designed to sit on top of existing levels.
- 4.34 To protect the ground within the CWA from compaction during the works, temporary ground protection will be installed. The temporary ground protection should be capable of supporting any traffic entering or using the Site without being distorted or causing compaction of underlying soil. Examples of suitable ground protection are set out below.
- For pedestrian movements only, a single thickness of scaffold boards placed either on top of a driven scaffold frame, so as to form a suspended walkway, or on top of a compression-resistant layer (e.g. 100 mm depth of woodchip), laid onto a geotextile membrane;
 - For pedestrian-operated plant up to a gross weight of 2 t, proprietary, inter-linked ground protection boards placed on top of a compression-resistant layer (e.g. 150 mm depth of woodchip), laid onto a geotextile membrane;
 - For wheeled or tracked construction traffic exceeding 2 t gross weight, an alternative system (e.g. proprietary systems or pre-cast reinforced concrete slabs) to an engineering specification designed in conjunction with arboricultural advice, to accommodate the likely loading to which it will be subjected

Important Ecological Features (IEFs)

- 4.35 The Preliminary Ecological Appraisal (PEA) carried out identifies no IEFs within the Zone of Influence (ZoI), which is the area over which ecological features are anticipated to be impacted by the proposed scheme.
- 4.36 The PEA sets out the key ecological constraints associated with the proposed development, mitigation measures, assessment of residual effects, identifies enhancement measures and post-construction monitoring. These measures address any potentially significant ecological effects and provide an assessment of the significance of any residual effects.

Table 1: Legislative and best practice requirements

Ecological feature	Relevant legislation / mechanism	Action required
Birds (nesting)	The Wildlife and Countryside Act 1981 (as amended)	Removal of vegetation outside nesting bird season. If this is not possible, a pre-commencement check to be carried out by an ecologist.
Hedgehog	The Wildlife and Countryside Act 1981 (as amended)	Sensitive vegetation clearance in suitable habitat.
Bats	The Wildlife and Countryside Act 1981 (as amended)	Sensitive vegetation clearance in suitable habitat.

- 4.37 Within the landscaping area, there is potential to encounter IEFs is possible. Should any protected or notable species be found, or are suspected of being present, during the undertaking of preparation and construction activities, works shall cease, and an ecologist notified for further advice.

5. Waste management

- 5.1 The contractor and supply chain members will ensure waste is stored away from drains, boreholes, wells, controlled waters and root protection areas of existing trees. Containers shall be in good condition and, where required, covered to prevent dust and litter being blown out. If there is any likelihood of stored waste contaminating the surrounding environs, all necessary steps will be taken to ensure no contamination occurs. This may include the use of containment bunds with rain shelters and the use of sealed containers, i.e. clip-top drums, etc.
- 5.2 Before waste is treated and / or removed from the development site, all subcontractors / waste contractors must provide the project team, where required, legible copies of the following documentation:
- Environmental permits (mobile plant licences) and exemption certificates authorising on-site crushing and screening activities;
 - Waste Carriers Registration Certificates;
 - Environmental Permits, (Waste Management Licences and PPC Permits);
 - Notification certificate of exemption from environmental permitting.
- 5.3 The project team and, where applicable, subcontractors will ensure that the removal of all inert / non-hazardous waste is recorded on Waste Transfer Notes. These documents must be kept for a minimum of two years. These documents will be stored on site and made available on request.
- 5.4 The project team and, where applicable, subcontractors will ensure the removal of all hazardous waste is recorded on Hazardous Waste Consignment Notes. These documents must be kept for a minimum of three years.
- 5.5 These documents will be stored on site and made available on request. Legible copies of all Waste Transfer and Consignments Notes, recording the removal of waste from the development must be issued to the contractor. This includes waste generated on site by subcontractors.

Waste Segregation, Storage, and Collection Procedures

- 5.6 Provisions will be made for the effective segregation, storage, and management of all waste materials generated on site. Separate, clearly labelled containers will be provided for different waste streams, including general waste, recyclable materials (such as metal, wood, cardboard, and plastics), and hazardous waste. These containers will be located in designated waste storage areas that are secure, weather-resistant, and regularly monitored to prevent cross-contamination and environmental harm.
- 5.7 Waste will be collected and removed from site by licensed waste carriers in accordance with current waste management legislation and best practice guidelines. A waste transfer note will accompany each load to ensure traceability and compliance. Regular collections will be scheduled to prevent overflow and maintain a clean and safe working environment. Site operatives will receive training on waste segregation procedures (as per section 2) to ensure high levels of compliance and to support the project's sustainability objectives.
- 5.8 When removing hazardous waste from the development, the following Environment Agency Premises Code must be used on all Hazardous Waste Consignment Notes: (Code a waited from EA). The burning of materials or waste on site shall not be permitted.

Particulate Matter (Dust), Noise & Vibration

- 5.9 With regard to noise, the methodology in which work activities are undertaken must apply Best Practicable Means (BPM) in order to minimise negative impact on local sensitive receptors. However, if measures to reduce excessive dust and noise are unsuccessful, work must stop and an alternative method devised before work can resume.
- 5.10 The following measures shall be used where necessary in order to prevent noise, dust and vibration:
- control noise, vibration and dust at source;
 - selecting quiet and low vibration emitting equipment;
 - locate plant within the Site;
 - work within operational hours;
 - enclose equipment by suitable and effecting means;
 - screening either by site perimeter, site welfare offices or specific hoarding or enclosures;
 - staggering of noisy activities in time and space where feasible;
 - use of modern, well-maintained plant and equipment that complies with the noise limits quoted in the relevant European Commission Directive 2000/14/EC/United Kingdom Statutory Instrument (SI) 2001/1701 and in the mode and a manner that minimises noise and vibration;
 - Use sheeted lorries and sealed / covered skips;
 - Use dust extraction equipment when drilling and cutting;
 - Damp down roads and stockpiled materials in dry or windy weather;
 - Sweep access roads regularly;
 - Fires and burning on Site are NOT permitted.
 - Grass over topsoil which is being stockpiled for landscaping or off-site re-use;
 - Locate plant and equipment away from sensitive receptors;
 - Use screens, including earth bunds to act as acoustic barriers;
 - Isolate plant and equipment when not in use;
 - Fit white noise systems on vehicles to reduce noise nuisance when reversing;
 - Keep engine compartment doors closed;
 - No machine shall be permitted which uses a system of dropping a heavy weight for breaking up paving or foundation; all such equipment shall be hydraulically operated; and
 - Limit vehicle movements on-site, i.e. use of one-way system.
- 5.11 If required, dust, noise and air quality monitoring shall be undertaken by the Contractor during periods of work that have the potential to result in excessive / unacceptable dust, noise and air quality being released from the Site boundaries. If required, monitoring shall, as a minimum, comprise the continuous monitoring of particulates (PM10 and Total Suspended Particulates (TSP)). Monitoring methodology shall be in accordance with a methodology detailed in annex E of BS5228-1:2009. Location of noise monitoring to be developed with CEMP and agreed with the regulating body.
- 5.12 The Contractor shall allow for and deal with any complaints from third parties caused by noise, vibration and dust. The Contractor shall temporarily suspend operations if required to do so. If

required, the number and specific siting of monitoring locations for the nearby sensitive receptor shall be agreed by the Contractor with the Employer and the Local Authority.

5.13 Work shall be carried out in accordance with the requirements of:

- BS 5228-1:2009+A1:2014 Code of practice for noise and vibration control on construction and open sites - Part 1: Noise;
- BS 5228-2:2009+A1:2014 Code of practice for noise and vibration control on construction and open sites – Part 2: Vibration;
- Control of Pollution Act 1974;
- Environmental Protection Act 1990;
- Environment Act 1995;
- Public Health Act, 1961;
- Control of Noise at Work Regulations 2005. If vibration is likely to be a problem or becomes a problem during the contract, reference shall be made to:
- BS 7385-2:1993 Evaluation and measurement for vibration in buildings - Part 2: Guide to damage levels from ground borne vibration; and
- BS 6472-1:2008 Guide to evaluation of human exposure to vibration in buildings Part 1: Vibration sources other than blasting.

Appendices

A. Proposed Development Plan



Rev	Amendments	by	chkd	Date
P01	FIRST ISSUE	SD	LJ	04/10/21
P02	Additional Pedestrian access-way created. Parking adjusted.	SD	LJ	22/10/21
P03	Notes amended/removed following receipt of comments.	SD	LJ	28/10/21
P04	Unit C loading zone identified	SD	LJ	09/11/21
P05	Highways / visibility lines added/amended following RSA review by DTA.	SD	LJ	15/11/21
P06	Retail unit trolley storage updated. Loading ramp & retaining walls indicated. Trees updated.	SD	LJ	23/11/21
P07	Soft Landscaping updated to reflect latest LA proposals	SD	LJ	16/12/21
P08	Highways/cycle/footpaths widened to reflect DTA & Highways consultation. Vehicular and pedestrian gate added to separate shared Yard from customer parking.	SD	LJ	04/08/22
P09	Pedestrian access added	SD	CS	05/08/22
P10	Pedestrian access adjusted	SD	CS	30/08/22
P11	Updated to reflect Highways plans	SD	CS	07/09/22
P12	Minor co-ordination with Landscape plans	SD	CS	28/09/22
P13	Additional tree planting included	SD	CS	01/11/22
P14	Motor cycle bays included	SD	CS	01/03/23

TOTAL 169 CAR PARKING BAYS & 7 MOTOR CYCLE BAYS

EXCLUDES:

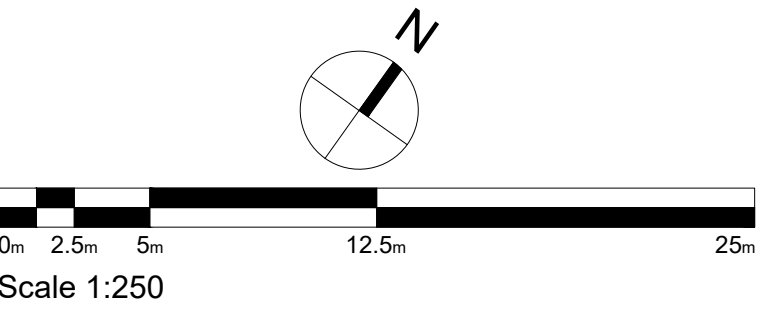
- 'ORDER WAITING BAYS'
- LOADING BAYS

ASSUMES:

- 6no. UNIT A (STAFF ONLY)
- 112no. UNIT A (CUSTOMER)
- 26no. UNIT B
- 25no. UNIT C
- 8no. PARENT & CHILD (4%)
- 9no. ACCESSIBLE BAYS (5%)

NOTES:

- Landscaping shown indicatively, refer to details by **Bradford-Smith Landscape Architects** for detail. Site levels tbc by others.
- Pink Dashed lines denote 'visibility splays', refer to Highways/Transport details by **DTA** for detail.
- Refer to **IWA** Drawing(s) for location and details of external lighting (lux levels and colour positions)
- Any signage (Building and Estate) shown illustratively only and subject to separate Advertisement Consent.



Drawing is based on information provided by Client ref. LDA, '1618_PL_072 P19'.

Layout assumed to meet any necessary and previously agreed tenant requirements.

Note:
This drawing is to be read inconjunction with all relevant Architectural, Structural, Civil, MEP, and Specialist Subcontractor drawings, specifications schedules and information.

Note: WIP
This drawing is subject to further coordination and statutory approvals, including Planning. Resultant amendments may be necessary following receipt and coordination of Consultant/ Building Control/ Fire/ Acoustic Engineer and Subcontractor/ Supplier Information.

Project
**HARGREAVES
WATERLOO PARK
WATERLOOVILLE**

Drawn By Checked By HNW Project No. Date Created
SD - 21A77 SEPT 21

Scale
A1- 1:250

Drawing Title

PROPOSED SITE LAYOUT

Drawing Status Revision
PRELIMINARY P14

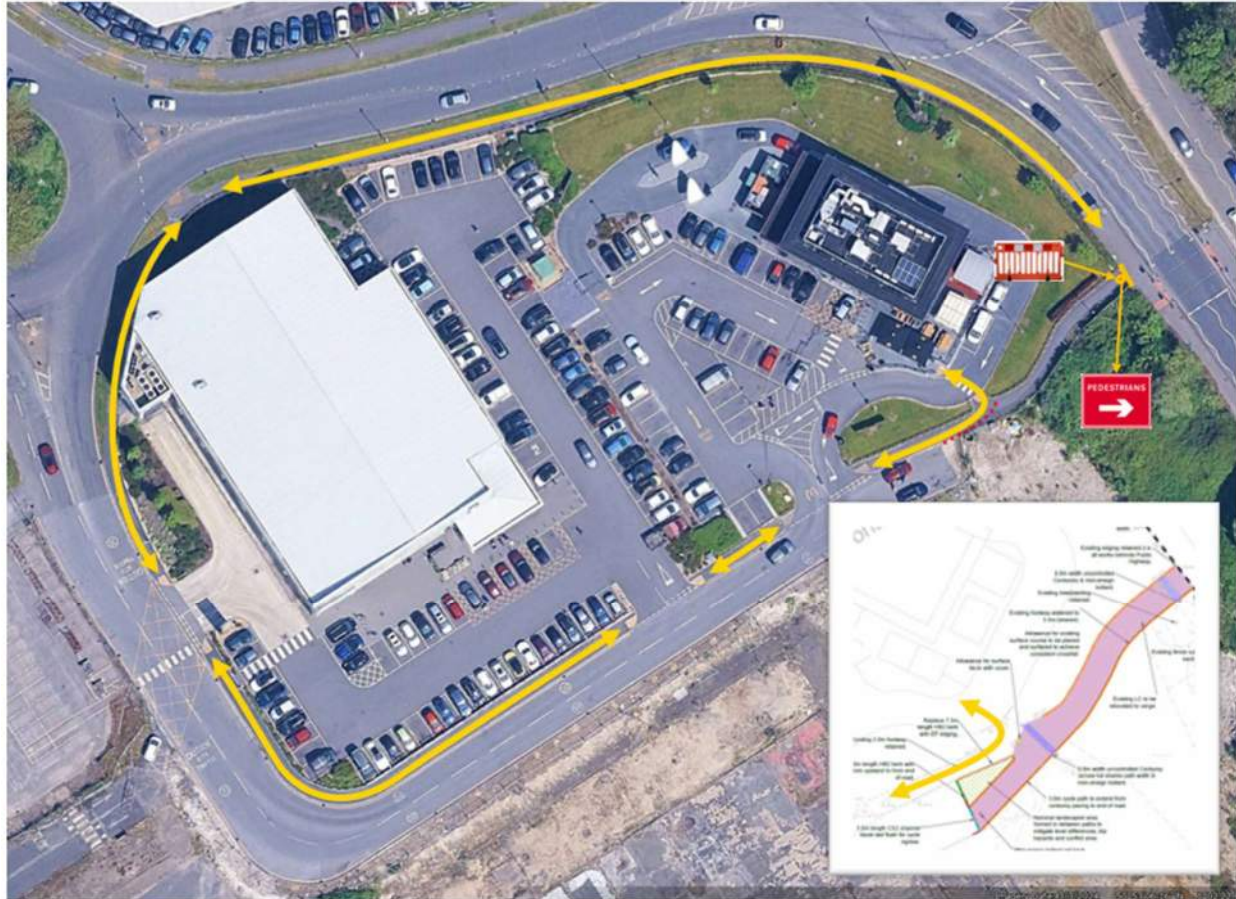
Drawing Number
21A77-HNW-ZZ-ZZ-DR-A-2100

61 North Street, Chichester, West Sussex, PO19 1JH

B. Tree Protection Plan

— — — Protective barrier/fencing

C. Proposed Pedestrian Diversion



Appendices

D. Site Compound

Appendices

Waterlooville Elettra Avenue

Site entrances

Gate A : Primary Access point

Gate B : Primary Egress point

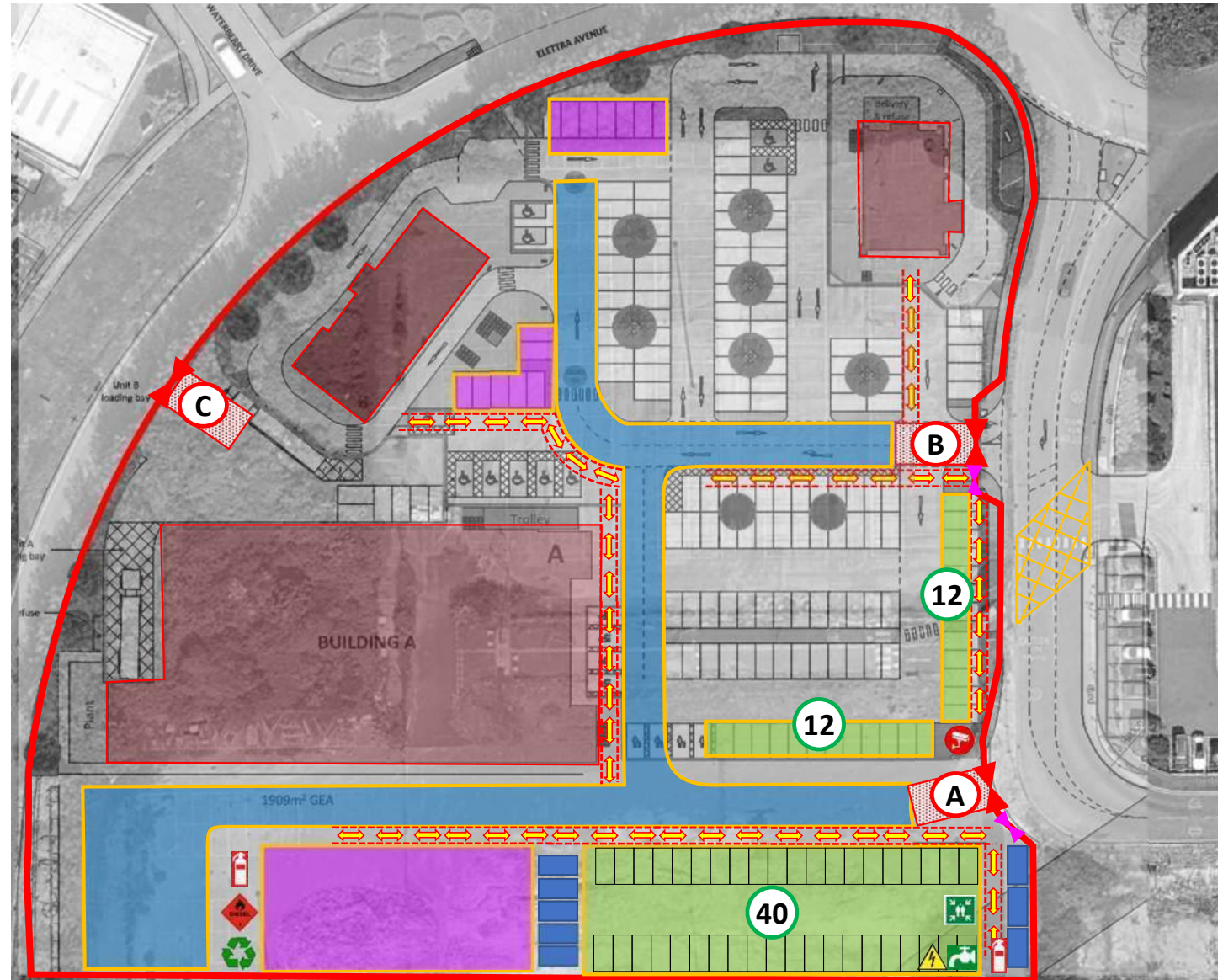
Gate C : Secondary Access/Egress

Parking

64 designated parking spaces with further site areas available as required.

Welfare

Site welfare facilities are located adjacent to main entrance gate.



	Parking		Fire point		Pedestrian route		Waste skips
	Manoeuvre area		Temp power		Welfare cabins		Assembly point
	Material storage		Water point		Site Fencing		Security Camera
	Tree protection		Diesel tanks		Vehicle/Ped gate		Wheel washing

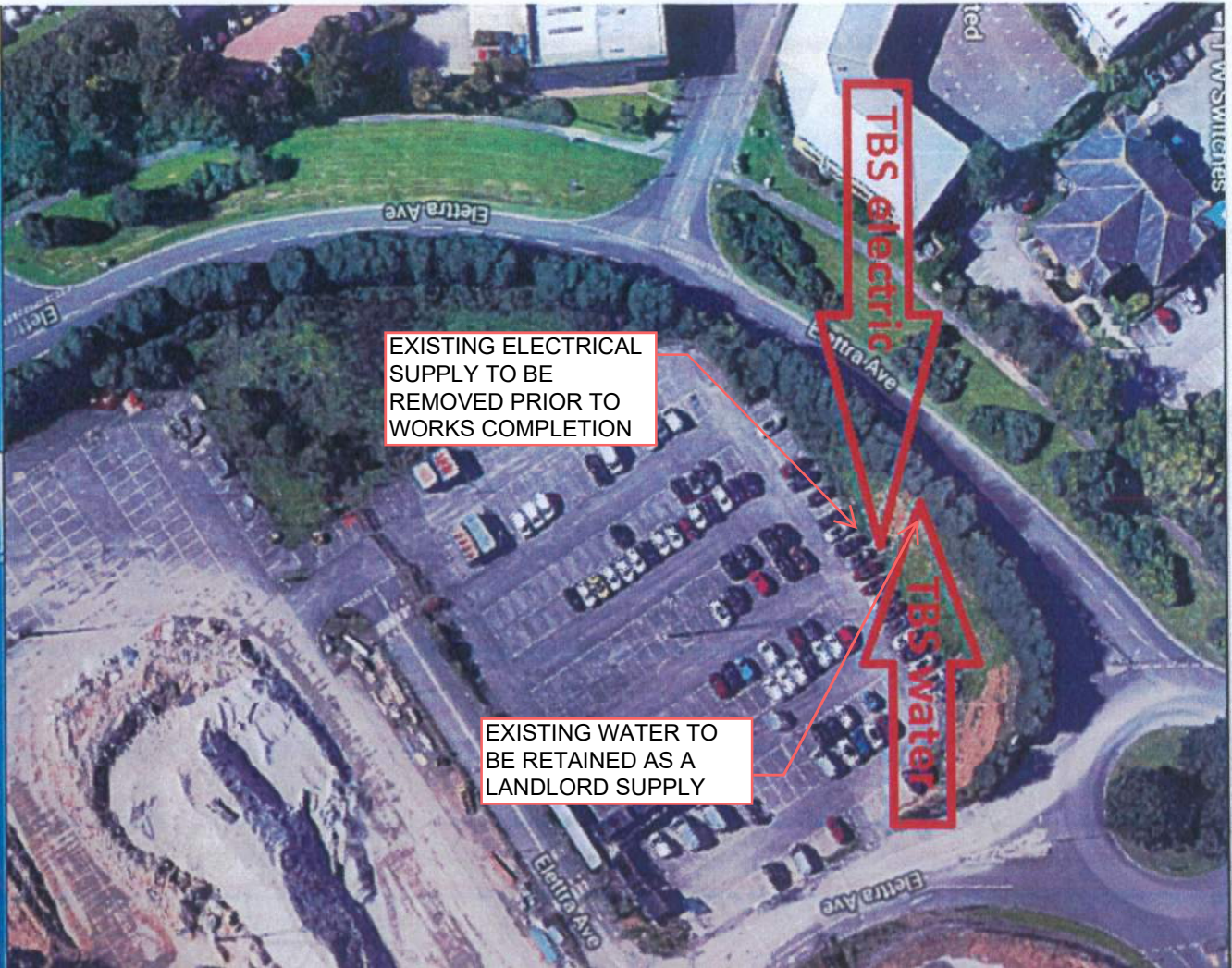
E. Existing Site Services

TBS electric

TBS water

EXISTING ELECTRICAL
SUPPLY TO BE
REMOVED PRIOR TO
WORKS COMPLETION

EXISTING WATER TO BE
RETAINED AS A
LANDLORD SUPPLY



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We deliver progressive, sustainability-driven environmental and engineering consultancy services across every sector. We think differently, and we're harnessing our collective expertise to deliver greener, healthier and well-connected communities, networks and built environments.

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