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OFFICE S&M

GARAGES REAR OF OSNEY WAY CAR PARK,
LOWER HIGHAM ROAD, GRAVESHAM, DA12 2ND

CONSTRUCTION TRAFFIC MANAGEMENT PLAN

November 2021

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I.0 INTRODUCTION

- I.1 Paul Mew Associates is instructed by Office S&M in relation to the proposed development at the garages rear of Osney Way Car Park, Lower Higham Road, DA12 2ND. The local authority is Gravesham Borough Council and the Highway Authority is Kent County Council.

Objectives of the CTMP

- I.2 The overall objectives of this CTMP are to:
- Lower emissions;
 - Enhance safety – improve vehicle and road user safety; and
 - Reduce congestions- reduce trips overall, especially in peak periods;
- I.3 To support the realisation of this objective, several sub-objectives have been agreed and include:
- Encouraging construction workers to travel to the site by non-car mode;
 - Promote smarter operations that reduce the need for construction travel or that reduce or eliminate trips in peak periods;
 - Encouraging greater use of sustainable freight modes;
 - Encouraging the use of greener vehicles
 - Managing the on-going development and delivery of the CTMP with construction contractors;
 - Communication of site delivery and servicing facilities to workers and suppliers; and
 - Encouraging the most efficient use of construction freight vehicles.

Site Context

- I.4 The site contains 14 semi derelict lock up garages. The site is on the south side of Lower Higham Road near to the junction with Chalk Road. The garages are reported to be unused, with the garages being sold at Auction February 2020 with seven still let at the time to tenants. At least four of the existing garages are

damaged making them unusable. All of the garages are used for commercial storage by self employed local people but none are used for parking vehicles.

- I.5 The site is not located in a Controlled Parking Zone and the area immediately adjoining the site is mainly residential in nature.
- I.6 The proposal development is for the site is to be redeveloped as four dwellings (one two-bedroom dwelling and three three-bedroom dwellings) with onsite car parking, gardens, a retained access road and boundary treatments. The site's location is presented on a map in Figure I of this report. The proposed site plan is in Appendix A.
- I.7 There will be five car parking spaces provided onsite for the use of future residents of the development. Onsite cycle parking and refuse store facilities will also be provided within the site development once completed.
- I.8 Construction hours will be 07:30 to 18:00 Monday to Friday and 08:00 to 13:00 hours on Saturdays. No construction activities in connection with the development of the site including any preparatory earthworks shall take place on site outside of the above hours. No work will be undertaken on Sundays, Bank Holidays or Public Holidays. No deliveries or construction vehicles will attend the site occur before 9:30am or after 3pm on weekdays.
- I.9 The site is not part of a formal controlled parking zone and the surrounding site is mainly unrestricted parking opportunities. The site access is as existing and is located as a small access road to the site between the Lower Higham Road Car Park and Chalk Parish Council. The access road is as existing and is included within the site boundary.
- I.10 This document outlines the demolition and construction process for the proposed works. This information has been gathered through our relevant experience and by information provided by the design team at this early stage of the project. The following section regards context, considerations, and challenges.

2.0 POLICY CONTEXT, CONSIDERATIONS AND CHALLENGES

Policy Context

Gravesham Borough Local Council

2.1 Gravesham Local Plan was adopted in September 2014 and outlines the boroughs initiative and views on construction within this document. These policies are currently under Stage 2 consultation for the review which is due to end in December 2020. Paragraph 5.15.8 within Local Plan sets out how the borough are seeking improvements to achieve more sustainable new development, incorporating sustainable construction, efficient use of resources are important components of design. The council is in line with national policy and will support new development where land has been used efficiently. One of the policies driving this initiative is Policy CS18 which addresses the effects of climate change.

2.2 Policy CS19 titled Development and Design Principles focuses on the design aspects of the new development how includes the requirement for the construction of a new development to incorporate sustainable construction standards and techniques. The exact wording of this policy has been copied below for direct reference:

Policy CS19: Development and Design Principles

5.15.14 New development will be visually attractive, fit for purpose and locally distinctive. It will conserve and enhance the character of the local built, historic and natural environment, integrate well with the surrounding local area and meet anti-crime standards. The design and construction of new development will incorporate sustainable construction standards and techniques, be adaptable to reflect changing lifestyles, and be resilient to the effects of climate change. This will be achieved through the criteria set out below:

- Using the collaborative approach advocated in Building for Life 12 and in line with the guidance set out in Kent Design, the design, layout and form of new development will be derived from a robust analysis of local context and character and will make a positive contribution to the street scene, the quality of the public realm and the character of the area. Account will be taken of the scale, height, building lines, layout, materials and other architectural features of adjoining buildings. Account will also be taken of the wider site context, including strategic views, site topography, the significance of heritage assets and features of townscape and landscape value which contribute to local character and sense of place;
- New development will encourage sustainable living and choice through a mix of compatible uses which are well connected to places that people want to use,

including the public transport network, local services and community facilities; encourage sustainable travel; enhance Green Grid links and encourage healthier lifestyles;

- New development will be located, designed and constructed to:
 - safeguard the amenity, including privacy, daylight and sunlight, of its occupants and those of neighbouring properties and land;
 - avoid adverse environmental impacts from pollution, including noise, air, odour and light pollution, and land contamination; and
 - not pose an unacceptable risk or harm to the water environment, including the quality and/or quantity of ground waters, surface waters, wetlands and coastal water systems;
- The design and layout of new residential development, including conversions, will accord with the adopted Residential Layout Guidelines;
- New development will be designed in an inclusive way to be accessible to all members of the community;
- New development will provide appropriate levels of private and public amenity space;
- New development will include details of appropriate hard and soft landscaping, public art, street furniture, lighting and signage and will ensure that public realm and open spaces are well planned, appropriately detailed and maintained so they endure;
- Car parking will be well related to the development it serves;
- New development will protect and, where opportunities arise, enhance biodiversity and the Borough's Green Infrastructure network. Support will be given to environmental enhancements where opportunities arise;
- New development will be fit for purpose and adaptable to allow changes to be made to meet the needs of users;
- The design and layout of new development will take advantage of opportunities to build in resilience to the effects of climate change. This will include protection against flood risk, where relevant, delivering carbon reduction, provision for low carbon and renewable energy, and minimising energy consumption and water use;
- New development will incorporate appropriate facilities for the storage and recycling of waste; and
- The layout of new development will create a safe and secure environment and provide surveillance to minimise opportunities for crime and vandalism.

Kent County Council

- 2.3 Policy and guidance relating to the construction within Kent is outlined with the Kent Design guide. Paragraph 2.4.4 of the design guide related to Environmentally Sustainable Design and outlines the need for sustainable construction. The exact guidance has been copied below for reference:

Sustainable construction

The UK strategy for more sustainable construction, 'Building a Better Quality of Life' (DEFRA 2004), suggests key themes for action by the construction industry. These are:

- design for minimising waste
- lean construction
- minimise energy consumption in construction and use
- do not pollute
- preserve and enhance biodiversity
- conserve water resources
- respect people and the local environment
- monitor and report (*i.e. use benchmarks*).

Further information on sustainable construction can be found in 'Making It Happen', available from 2006.

- 2.4 Sustainable Site management (2.4.6) is outlined on page 174 of the Kent Design Guide and includes the considerations that should be taken and the duties to be carried out by the development party's involvement. The exact wording has been copied below for direct reference:

2.4.6 SUSTAINABLE SITE MANAGEMENT

All new development should minimise waste and disturbance during its construction

Construction can have a destructive impact on the soil and land surface. This can be minimised by:

- preventing unnecessary disturbance of soils which have an ecological or agricultural/food-producing function
- minimising the removal of topsoil and retaining that which has to be stripped so that it may be re-used, or exported to another site
- preventing cross-contamination of weeds and other imports by the monitoring of new soil
- preventing unnecessary use of earthmoving equipment which can erode or compact soil
- using geotextile mats, planting or environmentally-friendly forms of land engineering
- preparation of an Environmental Management Plan for the construction process
- aiming for zero construction waste going to landfill
- treating soils which have been damaged
- using plants suited to specific site conditions.

The amount of material wasted on site can be reduced by introducing regular audits to monitor and control site activities. Detailed attention to the quantity of materials purchased and the way that these are stored and handled, can significantly reduce waste.

'Considerate Construction'

Formal environmental management systems such as ISO 140016 are beginning to be adopted in construction. These will reduce costs and nuisance during construction when the impact of potential disturbance on the surrounding area needs to be considered.

Examples include:

- equipment and traffic – noise levels and vibration
- mess – dust, spoil, stock heaps
- waste – burning is generally unacceptable
- time – certain working times for a variety of trades
- lighting – position, direction, glare, intrusion, light pollution
- management – workers and site processes
- security – plant and tools should be secured to avoid opportunities for crime.

Construction (Design and Management) Regulations

Client Duties

Clients must make appropriate arrangements to ensure that projects are properly managed at all stages. Under the Construction (Design and Management) Regulations clients who do not have sufficient knowledge or resources to do this must appoint one or more competent people to help them.

A client is an organisation or individual for whom a construction project is carried out whether by others or in-house.

Designers Duties

Designers have specific duties under the Construction (Design and Management) Regulations and all designers must be familiar with those requirements.

In general, designers have to:

- ensure that their clients are aware of their duties under CDM
- seek to eliminate or reduce hazards and risks in their design
- co-operate with the planning supervisor and other designers
- provide information for the pre-tender health and safety plan and health and safety file

Designers should note that clients are required to provide the planning supervisor/designers with information that they could reasonably be expected to obtain, which will be relevant to the management of hazards and risks.

National Planning Policy Framework (NPPF)

- 2.5 The main planning policy documents which provide a context for national sustainable transport is the National Planning Policy Framework (NPPF), which was published in July 2018 and revised in July 2021.
- 2.6 An extract from section 9 'Promoting Sustainable Transport' of the NPPF July 2021 is set out as follows:

"110. In assessing sites that may be allocated for development in plans, or specific applications for development, it should be ensured that:

- a) Appropriate opportunities to promote sustainable transport modes can be – or have been – taken up, given the type of development and its location;*
- b) Safe and suitable access to the site can be achieved for all user; and*
- c) the design of streets, parking areas, other transport elements and the content of associated standards reflects current national guidance, including the National Design Guide and the National Model Design Code 46; and*
- d) Any significant impacts from the development on the transport network (in terms of capacity and congestion), or on highway safety, can be cost effectively mitigated to an acceptable degree.*

111. Development should only be prevented or refused on highways grounds if there would be an unacceptable impact on highway safety, or the residual cumulative impacts on the road network would be severe"

- 2.7 The aforementioned policies have been taken into consideration when preparing this CTMP.

Local Transport Option

- 2.5 The nearest bus stop is the Osney Way bus stop which is approximately 30 metres from the site access. The 190 bus route is provided from the Osney Way Bus Stop. The bus timetable for the 190 service is demonstrated in Appendix B. The 190 service run approximately every 20 minutes, with the first services towards Chatham Waterfront Bus Station being 0605 and the last service 1930. This is based on a Weekday service.
- 2.6 The Osney Way Bus Stop which provides the 190 in the opposite direction towards Gravesend Bus Stop is approximately 40 metres from the site access. The 190 runs approximately every 20 mins during the day with longer waiting times in the earlier service times. The first service runs 05:34 and the last service is at 18:53. These timetables include the buses which only run during school holidays. Therefore, bus services may differ during term time and throughout the year.
- 2.7 Other bus stops within a reasonable distance from the site include Vicarage Lane and North Kent College which also provides the 190 service. Vicarage Lane is to the south west of the site. Lion Garage provides other services such as the intercity buses 735 and 736 and bus routes 416,417 and 481. Lion Garage is approximately 400 metres from the site and is located along the A226 Rochester Road. The 416,417 and 481 services can also be accessed from Forge Lane bus stop which is approximately 400 metres from the site. Refer to Figure 2 for the location of the local bus stops and services to the site.
- 2.8 The nearest train station to the site is Gravesend Station which is approximately 3.5km from the site. Gravesend services are provided by Southeastern. There is cycle storage availability at this station as well as bus services to provide part on the onward journey. There are also car parking facilities available. There is step free access to all platforms. Services include trains to Faversham, London Victoria, Luton, London Charing Cross, London St Pancras International, and Rainham (Kent).

- 2.9 Other train stations include Higham, Northfleet and Ebbsfleet International. Ebbsfleet International is approximately a 25-minute cycle from the site (approximately 6.6km) from the site. Northfleet is approximately 6.3k northwest of the site (22-minute cycle) and Higham is 5km east of the site.

Walking and Cycling Accessibility

- 2.10 The walk routes from the site to local public transport access points are very straightforward as can be seen from the site location map in Figure 2 of this report.
- 2.11 The footpaths in proximity to the site are suitably wide and in a good state of repair. Regular street lighting is provided along Lower Higham Road and, on the streets, adjoining the site to provide sufficient illumination in the hours of darkness.
- 2.12 With regards to cycling infrastructure, there are cycle paths or a local cycle route along Rochester Road to the south of the site. National Cycle Route 1 runs along the Thames and Medway Canal to the north of the site. Refer to Figure 3 for reference.

Considerations and Challenges

- 2.13 The major challenge for the proposed works at the garages rear of Osney Way Car Park is the limited space onsite.

Schools

- 2.14 The Parish Hall situated next to the site is used as a nursery and therefore during morning and afternoon peak hours, there may be an increase in congestion. Therefore construction vehicles will be restricted from 9:30am to 3pm.
- 2.15 There are a few schools within the local area of the site. North Kent College Gravesend entrance is located on Lower Higham Road and is approximately

350 metres west of the site. Bright Beginnings Nursery is located within the site of the college but is accessed off Dering Way and therefore is approximately 875 metres from the site. Westcourt Primary School is to the South West of the site and is approximately 645 metres from the site. None of these schools are located along the construction route but are located on Lower Higham Road and therefore would impact to the local congestion within the area.

- 2.16 Further north west from the site along the A226 is St John's Catholic Primary School and St Johns Catholic School. These are located approximately 965 metres from the site. However, they are not intended to be located along the vehicle construction route.
- 2.17 Refer to Figure 4 which demonstrate the locations of all community considerations mentioned.

Local Businesses

- 2.18 There are a few businesses located on Lower Higham Road such as a business development service and a plumber's merchant. A small Convenience Store is located along Lower Higham Road, approximately 75m west of the site access. These services are located on the opposite side of Lower Higham Road to the site and are within the immediate vicinity of the site. South west of the site is a Shell Petrol Station with a SPAR store, this is within the local vicinity of the site but it is not located along the construction route. Refer to Figure 4.
- 2.19 At no times will local businesses be restricted in terms of customers being able to access the businesses or receiving deliveries. Vehicle, pedestrian, cycle, and delivery access to local businesses will be unaffected by the scheme. A Community Engagement Officer will regularly contact local businesses to share information in regard to deliveries

Places of Worship

- 2.20 The City Praise Centre is a registered religious organisation and is located approximately 485 metres west of the site on Lower Higham Road. However, it is not located on the construction route.

- 2.21 Further north west from the site on the A226 is the New Covenant Church Gravesend and is approximately 1.13km from the site and is not along the construction vehicle route. To the south east of the site is St Mary's Church which is approximately 1.8km from the site and is not located on the construction route. Refer to Figure 4.

Community Centres

- 2.22 Chalk Parish Hall is located adjacent to the site and borders the site boundary. The Parish Hall can be used and booked by members of the local community in addition to the use of the Hall for Sunday Services. Refer to figure 4.
- 2.23 The other community centres nearby include the Viewpoint Community Centre, which is approximately 1.13 km south of the site. Riverside Community Resource Trust is approximately 1.13km west of the site. Refer to figure 4.

Health Centres

- 2.24 Chalk Surgery is located approximately 60 metres west of the site and is located along Lower Higham Road. Bespoke Dental Care is located on Lower Higham Road after the junction and is approximately 40 metres from the site. Refer to Figure 4.
- 2.25 This should not form part of the construction vehicle route as vehicles are intended to enter and exit the site and therefore would not travel past the surgery during construction. However, it should be noted that both are within close proximity of the site.
- 2.26 The following chapter outlines the construction programme and methods to be used throughout the development.

Community Liaison

- 2.27 The construction contractor will be signed up to the Considerate Constructors Scheme and will follow the Code of Considerate Practice. Caring for the

community and community considerations are a key part of the Considerate Constructors Scheme and therefore the local community adjoining the development site will be kept well informed over the course of the demolition and construction programme.

- 2.28 A Community Liaison Officer will be appointed to mitigate and resolve any issues and difficulties in the local community. A key aspect of the successful management of this project will be establishing and maintaining a good relationship with surrounding neighbours. This CLP has prepared a strategy for preventing potential issues, however any difficulties encountered during construction will be reported/recorded in a full log and resolved using a 24 hour-manned telephone line. Newsletters and bi-monthly community gatherings will deal with issues which may arise during the programme.

3.0 CONSTRUCTION PROGRAMME & METHODOLOGY

- 3.1 The intended start date for the main works is as soon as possible after the planning permission has been granted and any pre-commencement conditions have been discharged.
- 3.2 A contractor has not yet been appointed as part of this development. Contractor details and an accurate indication of timescale by the contractor can be provided at a later stage or at the request of the council. An indication of the expected timescale has been provided below.
- 3.3 The development is estimated to take 12-15 months in total from site setup to fit out, testing and commissioning. Assuming there are no delays within the construction programme the total programme will take 12 months. The projected time for each construction phase is shown in Table 1 below.

Table 1. Projected Timescale

Construction Phase	Timescale (Months)
Site Set-up and Demolition	1 month
Basement Excavation and Piling	0 months
Sub-Structure	2 months
Super- Structure	2 months
Cladding	4 months
Fit-out, testing and commissioning	3 months

Source: Office S&M/PMA

- 3.4 An illustrative outline construction site plan is presented at Appendix C of this report. The plan shows the indicative hoarding line, vehicle and pedestrian access, waste and material storage and welfare facilities within the site. No contractor parking will be provided onsite; therefore contractors and sub-contractors will be encouraged to attend the site via public transport or non-vehicular modes.

- 3.5 General construction hours will be adhered to and HGV access will be restricted to 09:30am to 3:00pm to avoid the AM and PM peak periods on the adjoining highways.
- 3.6 For ease of reference the programme of each phase has been set out in the following section of this report.

Site set-up and demolition

- Erect hoarding around the boundary of the site;
- Any highway protection required such as a construction crossover will be agreed with by the council, designed and installed prior to works commencing in order to protect highway;
- Make safe all electrics, water and gas supplies
- Provide on-site welfare facilities within the south west corner of the site as this will be the communal area of the project and the last area to be handed over;
- Check the site for any utilities running through the development and liaise with utility companies if required,
- Demolition will be carried out by hand and mechanical demolition; trench foundations may be required dependent on the soil conditions.
- Waste will be stored on site in skips;
- Noise and dust will be controlled by the Considerate Contractor's Code. Noisy work will be restricted as much as possible and will be conducted in areas within the construction site that will cause as little disturbance as possible to neighbours;
- No waste materials will be burnt on site;
- Any dust creating activities will be conducted away from neighbouring properties sensitive areas;
- Spoil will be covered at all times;
- The contractor will ensure that the footpath and adjoining highway is clean at all time. Wheel washing facilities will be provided onsite and carried out prior to vehicles entering the highway;
- A trained banksmen will be employed by the contractor who would be on-site to safely direct vehicles when a vehicle is serving the site

Sub-Structure

- A steel frame will form part of the method of construction
- Waste will be stored where car parking spaces 4 & 5 will be located at the end of the development;

- Materials will be stored in the north west corner of the site. The rear gardens will also be used for storage throughout the works in order to keep storage away from the Parish Hall;
- It is estimated that at least 20 tonnes of waste materials will occur due to the development;
- During the foundation and structural work, at least 45m³ of concrete will be transported to the site
- A trained banksman and traffic marshal will be employed to ensure that all vehicle and pedestrian/cyclist activity in the vicinity of the site is safe and satisfactory. Before a vehicle accesses the site, it shall call ahead, letting the banksman and traffic marshals know of their estimated time of arrival.
- A crane will be used onsite during the works, due to the scale of the development and the limited space on site, it is likely that only a small mobile crane will access the site when required.

Super-Structure

- During the superstructure phase, general materials will be brought to the site by either a panel bodied vehicle or flat-bed lorry, which will pull up onto the site;
- As previously outlined, a trained banksman and traffic marshal will be employed to ensure that all vehicle and pedestrian activity in the vicinity of the site is safe and satisfactory. Deliveries will be executed in the same manner as detailed in the substructure phase.

Fit-Out & Cladding

- A small number of additional contractors will need access to the site during fit-out. Contractors will arrive in smaller vehicles to service the site.
- Where contractors are not required to transport building tools/materials to the site, they will be encouraged to use public transport or walk/cycle. Where public transport is not viable, contractors will be encouraged to arrive to site using car shares or a minibus.

4.0 VEHICLE ROUTING & ACCESS

- 4.1 This section assesses how construction traffic will be managed in terms of volume of traffic, type of vehicles, routing, and other material considerations.

Vehicle Routing

- 4.2 All demolition and construction related vehicles will be carefully routed to minimise disruption on the local and the wider highway network adjoining the site. Furthermore, taking a considered route will provide the vehicles with as much space as possible
- 4.3 The inbound route is for the construction vehicles to attend the site from the south west. The M2 runs east to west south of the site, therefore it is likely that vehicles will attend the site via the main A roads and motorways with the region. Vehicles will join the A289 (Hasted Road), where they will take the slip road exit towards Gravesend. At the roundabout, the vehicles will take the first exit to join the A226 (Gravesend Road). The vehicles will stay on the A226 for the majority of the route before turning right onto Chalk Road. The vehicles will remain on Chalk Road as it becomes Lower Higham Road until they reach the site access. The majority of the roads to be used as part of the construction route are A roads with a considerable width and likely often to be used for construction vehicles or larger delivery lorries. The A226 has a cycle lane along the route and therefore should be taken with extra care and vigilance. Chalk Road is a two-way road but due to the residential nature of the area, cars may be parked along the roadside. However, this is a main route through the area and has bus stop along so is clear that it is used by larger vehicles.
- 4.4 The outbound journey will be the reverse of the inbound route.
- 4.5 A regional demolition/construction vehicle routing plan is presented in Figure 5 of this report which illustrates the route vehicles will take when accessing and egressing the site. A local routing plan is demonstrated in Figure 6.

- 4.6 Vehicles will enter the site to load and unload goods and materials. Therefore, ensuring the construction route and Lower Higham Road/Chalk Road maintains a good flow of traffic in the area.
- 4.7 The site manager will ensure they have responsibility for supervising, controlling, and monitoring vehicle movements to or from the site.

Access

- 4.8 Vehicle and pedestrian access will be via the existing site access which is currently in use for the access to the garages. The secure gate at the start of the access road will provide both the access for vehicles and pedestrians.

5.0 STRATEGIES TO REDUCE IMPACTS

5.1 The following measures will be committed and adhered as the strategies implementing to reduce impacts.

5.2 The strategies include:

- Safety and environmental standards/programme will be adhered to;
- The contractor will be fully committed to ensuring that all HGVs that access the site stick to the committed routes as outlines herein. All suppliers and sub-contractors will be sent a copy of agreed HGV route plan;
- The contractor will devise and work to a delivering scheduling programme to ensure that no more than one HGV is attending the site at any one time;
- HGVs will only be programmed to access the site between 9:30am and 3:00pm on weekdays so as to avoid the peak periods, the contractor will be fully aware and will abide by this procedure;
- Out of hours deliveries will not be scheduled by the contractor; deliveries will only be scheduled to occur when someone is at the site to take receipt;
- The contractor is committed to exploring and where possible implementing design for manufacture and assembly (DFMA) techniques which improve productivity and decrease both on-site construction programmes as well as costs;
- A steel frame will be quick to assemble and require less materials than a traditional brick building. This will reduce the number of deliveries to site, and speed up time onsite.
- The developer is committed to limiting the amount of spoil and waste which will be taken away from the site by re-using waste and spoil from the demolition works wherever viable;
- Smart procurement in construction helps to reduce on-site costs and minimise waste, while achieving a 'right first time' delivery. By simplifying processes the contractor will reduce the risk of errors and will streamline its decision-making process which will lead to productivity and efficiency benefits in the procurement and construction phases;
- Collaboration will take place with site managers of other construction sites in the area wherever possible;
- The appointed lead contractor will implement a staff travel plan at this construction site;
- There are no schools located directly along the construction route however there are schools located in close proximity to the site. Therefore, construction vehicle hours will be reduced to 9:30am-3pm.

- 5.3 The contractor will initiate early communications to establish a good rapport with the community which will help reduce problems that may arise during the demolition and construction process. Part of the process will be the inclusion of regular newsletters keeping neighbours up to date with what has and will happen on site. Information boards will be displayed on the site hoarding which will highlight the key personnel onsite including their contact details.

Local Consented Development

- 5.4 Other local consented development will be considered and where possible collaboration with deliveries will take place so as not to compound any highways problem which result from multiple local construction scheme.
- 5.5 The planning portal was used to see planning application within the past six months in the vicinity of the site. Some examples of current granted or awaiting developments near to the site include:
- 20200588 - Application Permitted. 153 Lower Higham Road DA12 2NW. Conversion of existing summer house into two-bedroom annexe.
 - 20200735 – Application Permitted. 167 Lower Higham Road DA12 2NW. Removal of the garage and erection of a single storey side and rear extension to form extended lounge, study room, and garden room
 - 20200546 – Application Permitted. Land East of 18 Copperfield Close Gravesend. Erection of a three-bedroom detached dwelling with associated landscaping and car parking.
 - 20201154 – Pending Consideration. 158 Lower Higham Road DA12 2NN. Application for Lawful Development Certificate for the proposed erection loft conversion with hip to gable roof extension, dormer window to rear elevation and 3 rooflight windows to front elevation.
 - 20200921 – Pending Consideration. Dickens Cottage 1 Chalk Road DA12 4XE. Retention of wooden boundary fencing.
 - 20200857 – Pending Consideration. 20 Lower Higham Road DA12 2NG. Application for garage conversion to form a commercial kitchen.

- 20201016 – Pending Consideration. 4 Copperfield Close Gravesend DA12 2NJ. Erection of a two-storey side extension with construction of a dormer extension in the rear roof slope and conversion of the roof space into habitable rooms.

5.6 It will be the role of the contractor to collaborate with other developments which are in construction during the same period as the approved development. These may include the example discussed above but are not limited to these developments.

Vehicle Call-Up Procedure and Scheduling

5.7 It is proposed that the following vehicle call-up procedure will be in place for the development. This is due to having limited space on site and the narrow access to the site.

5.8 Lower Higham Road is not located in a controlled parking zone and the surrounding area to the development site is unrestricted parking. However, contractors and subcontractors will be encouraged to attend the site via public transport or non-vehicular modes as much as possible.

5.9 The following vehicle call-up procedures will be in place at the development;

- Deliveries will be given a scheduled time to arrive at site;
- Delivery instructions will be sent to all suppliers and contractors;
- Trained site staff will assist when delivery vehicles are visiting the site;
- A traffic marshal will be provided to ensure the safe passage of pedestrians/cyclists and a banksman will be provided to ensure vehicular traffic in the street when vehicles are entering and exiting the site;
- The site telephone number will be given to suppliers who must confirm site arrival time at least 20 minutes prior to arrival and only to approach the site once confirmation site is clear is received
- Deliveries will be made 'just in time', due to the space within the site no more than one vehicle will attend the site at once.

Other Material Considerations

- 5.10 In order to ensure the effective and safe management of demolition and construction related vehicles throughout the build programme, the contractor will hire a suitable number of trained and designated banksmen and traffic marshals will be LANTRA or similarly qualified to carry out the traffic management procedures required during the works.
- 5.11 The contractor and any sub-contractors or other suppliers sending vehicles to and from the site will be as a minimum FORS Silver member of the Fleet Operator Recognition Scheme (FORS).
- 5.12 Main contractors to the development must show they and their suppliers are committed to safer and more efficient ways of working onsite. As a minimum all operators' vehicle over 3.5 tonnes accessing the site throughout the demolition and construction programme must be FORS Silver accredited.
- 5.13 In addition to the above, all contractors and sub-contractors operating large vehicles over 3.5 tonnes must meet the following conditions:
- All drivers must have undertaken cycle awareness training such as the Safe Urban Driver module through FORs or similar
 - All vehicles associated with the construction of the development must:
 - i. Have side guards fitted, unless it can be demonstrated to the reasonable satisfaction of the employer, that the lorry will not perform the function, for which it was built, if side guards are fitted
 - ii. Have a close proximity warning system fitted comprising of a front mounted, rear facing CCTV camera (or Fresnel Lens where this provides reliable alternative), a Close Proximity Sensor, an in-cab warning device (visual or audible) and an external warning device to make the road user in close proximity aware of the driver's planned manoeuvre
 - iii. Have a Class VI Mirror
 - iv. Bear prominent signage on the rear of the vehicle to warn cyclists of the dangers of passing the vehicle on the inside.

Environmental Considerations

- 5.14 Measures will be applied to control the emission of noise, vibration, and dust, including working hours as set out herein. The measures applied will follow best practice detailed within BS5288:2009 – 'Code of Practice for Noise and Vibration Control on Construction and Open Sites'.
- 5.15 All noisy work will be restricted as much as possible and will be conducted in areas within the construction site that will cause as little disturbance as possible to neighbours.
- 5.16 Operatives will be informed that as a rule, if they need to raise their voice when standing two metres away from a noise source, it is too loud and hearing protection must be worn. Contractors will be encouraged to purchase equipment that is advanced in technology and equipped with vibration absorbing features. To ensure that operatives are aware of the effects of hand arm vibration they will be provided with adequate information on the hazard and controls and given information to reduce the risk. Should it be deemed necessary, contractors are to undertake noise and hand arm vibration monitoring and, dependent on the results, further control measures will be required.
- 5.17 All staff should have some training regarding on-site pollution policy, as part of induction training. For Level 1 & 2 developments at least one named individual or post should be given the responsibility for implementing dust and emission monitoring and control measures across the site and implementing any required remediation measures.
- 5.18 The emission of dust from the site resulting from demolition and construction works will be managed with the following measures:
- No waste materials will be burnt on site;
 - Any dust creating activities will be conducted away from neighbouring properties and sensitive areas;

- Any demolition activities will use water as a dust suppressant if necessary;
- As and when necessary the adjoining highway will be swept and washed to keep clean;
- Effective traffic management and well organised vehicle logistics will be applied resulting in less dust and mud being produced;
- Wherever practical all vehicles will switch off engines whilst in attendance, no idling of vehicle engines will be permitted;
- Skips and any open piles of spoil/waste will be securely covered;
- The contractor's site foremen will visually assess any dust emission on site and take further action to mitigate this if necessary.

5.19 All reasonable steps will be taken to minimise any disruption to adjacent occupiers by noisy and vibration causing activities on site. Where possible the contractors will employ construction methods to avoid the amount of noise generated in the first instance. The following measures will be implemented to reduce noise levels on the site:

- Where possible any noisy stationary equipment will be located away from sensitive areas;
- Drop heights of materials will also be kept to a minimum to avoid unnecessary extra noise;
- Where possible the contractor will use quiet or low noise equipment;
- Electrically operated plant will be used where practical;
- Operatives working in noisy areas will also be monitored to ensure they are wearing the necessary protective equipment and that they are not exceeding their permitted exposure periods;
- No radios or other audio equipment will be allowed on site;
- Efficient vehicle logistics ensure that vehicles arrive promptly, are off-loaded quickly and depart quickly meaning that there is less time when noise is generated, and it will also prevent traffic build up noise being generated; and
- Where practical all vehicles will switch off engines whilst in attendance.

6.0 ESTIMATED VEHICLE TRIPS

- 6.1 This section assesses how construction traffic will be managed in terms of volume of traffic and types of vehicles.

Vehicle Movement and Scheduling

- 6.2 The current programme is expected to run for 12-15 months. For ease of reference, the building phases include the following:
- a) Site Set-up and Demolition – one month
 - b) Sub-structure – two months
 - c) Super-structure – two months
 - d) Cladding – four months
 - e) Fit-out & Testing – three months
- 6.3 The amount of vehicle which are predicted to attend the site during each phase and the estimated total amount of vehicles needed at stage is outlined with the table below:

Table 3: Estimated volume of vehicles per stage

Construction Stage	Estimated Number of Vehicles Weekly	Estimated Total of Vehicles per Phase
Site set-up & Demolition	2 per week	8 per month
Sub-Structure	4 per week	32 per two months
Super-structure	6 per week	48 per two months
Cladding	6 per week	96 per four months
Fit-Out & Testing	4 per week	48 per three months

- 6.4 Therefore, it is estimated that the site will have one or two vehicles attending the site per day, which would be considered to have no to minimal impact on the surrounding road network.

Volume & Type of Vehicles

- 6.5 The largest vehicle will be either the concrete mixer or a large tipper. A concrete mixer is approximately 8.4m in length and 2.4m wide and is demonstrated entering and exiting the site in Figure 7a. A large tipper is 10m in length and 2.5m wide and is demonstrated in Figure 7b.
- 6.6 A mobile crane is likely to be during the construction of the development as shown in Figure 7c the swept path analysis has demonstrated a small mobile crane entering and exiting the site (width: 2.5m and length 7.1m).
- 6.7 Other vehicles which are likely to be required for the site require include skip lorries, small tipper, 7.5t Box Van and 3.5t panel van. The swept path analysis of these vehicles are demonstrated in figures 7d-7f.
- 6.8 As a contractor is yet to be appointed due to the early stage of the planning process, the exact dimensions of the construction vehicles required is not known at this stage. However, due the size of the development and site and prior experiences the above vehicles have been analysed.
- 6.9 As previously mentioned, the biggest challenge for the development will be the space available on site. The available space will decrease as the development progresses. Therefore, the swept path analysis has been based on the mid to later stage while the structures of the building will have begun to form reducing the space available on site to the car park. Vehicles will have to adhere to having one vehicle attending the site at one time. During the demolition and initial construction phase construction will have more space onsite to manoeuvre. Once the higher levels begin to be constructed the undercroft parking area will have a height of 2.5m and therefore may result in some vehicles not being able to fit under this part of the site.
- 6.10 The construction vehicles will be required to enter the site in forward gear and stop within the car parking area of the proposed development. Vehicles will be unable to turn around on site and therefore with the assistance of a Traffic

Marshals vehicles will reverse out of the site to re-join Lower Higham Road. Therefore, while vehicles are turning in or out of the site traffic will be temporarily stopped to ensure safety of the vehicle entering or exiting the site and to ensure the safety of other vehicle users.

- 6.11 The safety features which will be implemented while vehicles are attending demonstrated on the Illustrative Construction/Demolition Site Plan. The features include a traffic marshal to guide the vehicles into and out of the site. To stop pedestrians crossing the site scissors barriers will be implemented either side of the site with Banksmen. Traffic will be stopped temporarily in both direction on Lower Higham Road and vehicles coming from Chalk Road by Traffic Marshals and stop works signs. The traffic will only be stopped while a vehicle is attending or leaving the site and will only be stopped for the short time period while the vehicle manoeuvres.

7.0 MONITORING, COMPLIANCE, REPORTING & REVIEW

- 7.1 This CTMP has been prepared for submission to Gravesham Borough Council and Kent County Council for submission as part of a full planning application.
- 7.2 The site address is the garages rear of Osney Way Car Park, Lower Higham Road, DA12 2ND.
- 7.3 The proposal comprises of the demolition of the existing garages for the development of four dwellings.
- 7.4 The appointed lead contractor will take responsibility for the day-to-day management of the CLP and is the first point of contact for site issues. They will help the development run smoothly by making sure each construction phase complies with the CLP. It is also the appointed lead contractor's job to oversee the effectiveness of the CLP and prepare regular updates to the planning authority when asked.
- 7.5 It will be the duty of the appointed lead contractor to respond to any questions or queries about the development and put in place any mitigation measures needed to resolve traffic issues connected with the construction work. An example of the duties a lead contractor may need to carry out is illustrated as follows:
- Remind all contractors and subcontractors about designated routes to and from the site;
 - Check vehicles arriving at site to make sure they meet the developer's safety requirements;
 - Manage the delivery booking and scheduling tool that records deliveries
- 7.6 A 'Contractor's handbook' will be prepared prior to any works commencing on the site. Copies of the handbook will be sent to all sub-contractors and key personnel on the site.

7.7 A well-planned handbook will support supervisors and managers in making sure the terms and conditions of the CTMP are met by everyone working at the site. The handbook should include the following information:

- Communicate the aims and objectives common to all CTMPs;
- Clearly explain all site-specific agreements and methods of working;
- Sets out the main contractor's general practices and standards;
- A site map;
- Hours of site opening;
- Health and Safety information;
- Main contact details;

Management

7.8 The CTMP will be managed through a lead contractor. Once the contractor has been appointed their full details will be provided to the council and they will have responsibility of carrying out the agreed CTMP. Other key contact details of people who have assisted in the preparation of this CTMP are also included:

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Transport Consultant

Paul Mew Associates

0208 780 0426

esmail.ali@pma-traffic.co.uk

Architects

Hugh McEwen

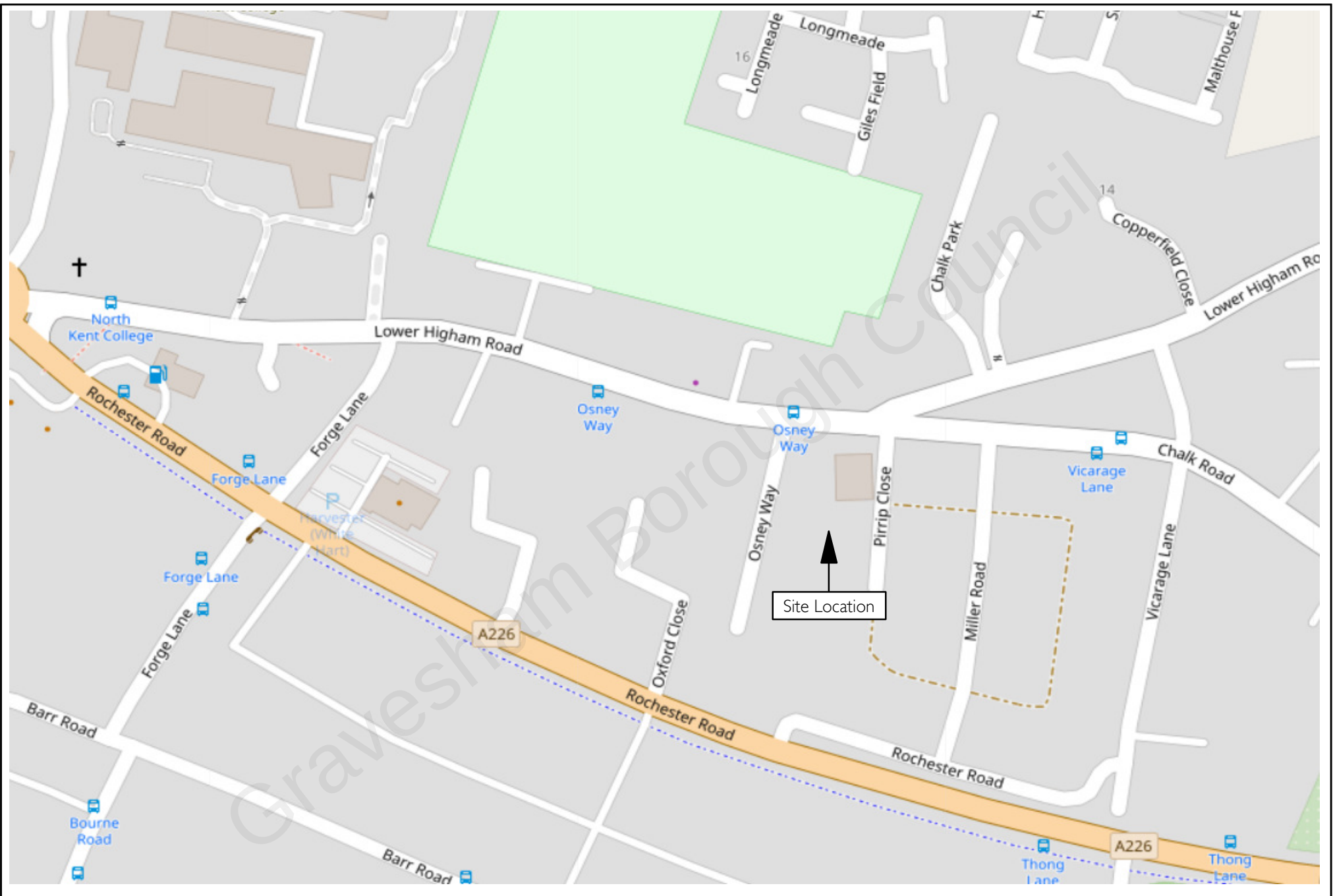
Office S&M

02081066855

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FIGURES

Gravesham Borough Council



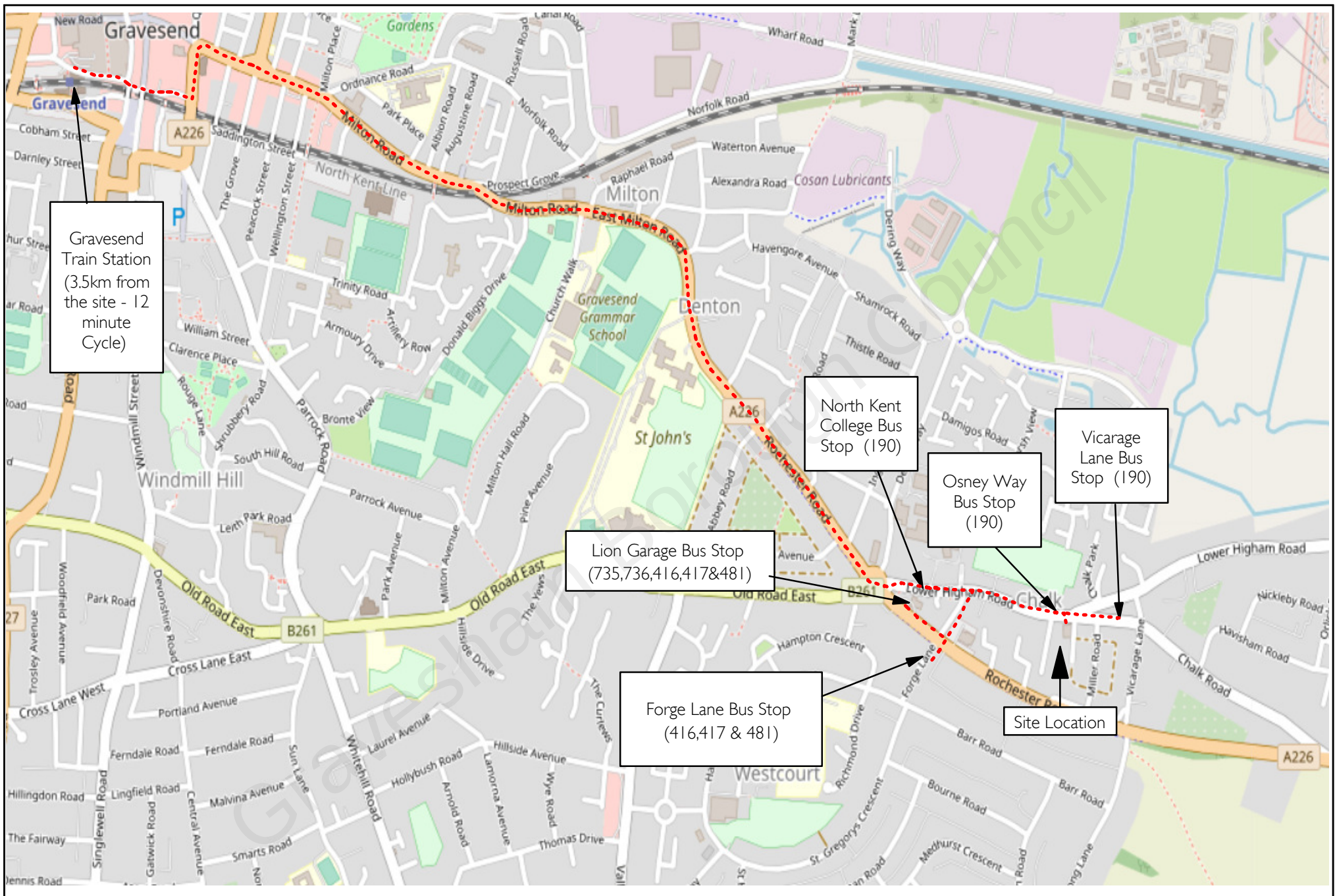
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 Source: Google Maps
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P2577: Garages rear of Osney Way Car Park, Gravesend, DA12 2ND
 Figure 1.
 Site Location



PAUL MEW ASSOCIATES
 TRAFFIC CONSULTANTS



Date: November 2021
 Scale: NTS
 Source: Google Maps
 Drawing No: P2577/CTMP//02



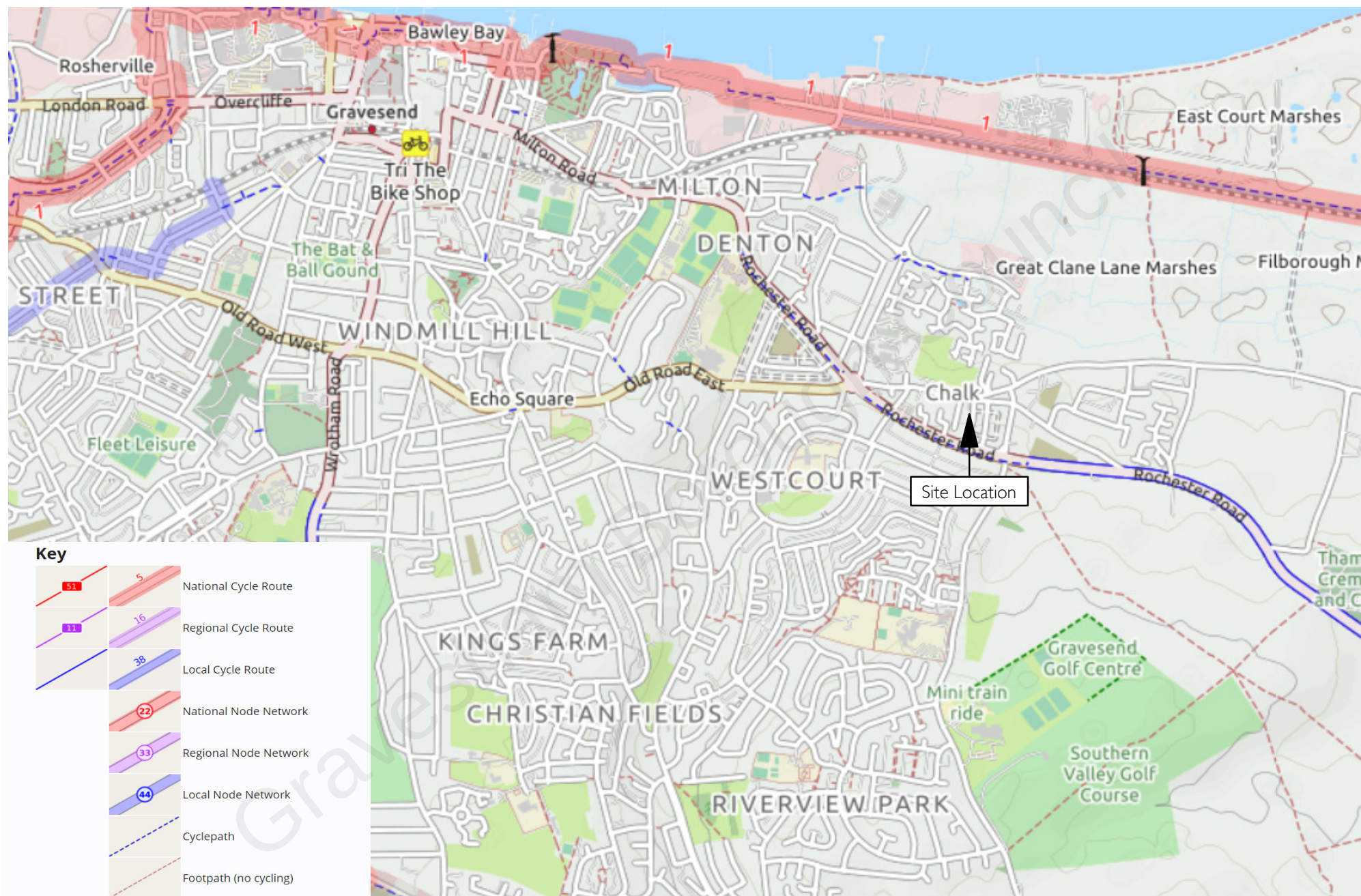
P2577: Garages rear of Osney Way Car Park, Gravesend, DA12 2ND

Figure 2.

Public Transport Links Map



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Date: November 2021
 Scale: NTS
 Source: Google Maps
 Drawing No: P2577/CTMP//03

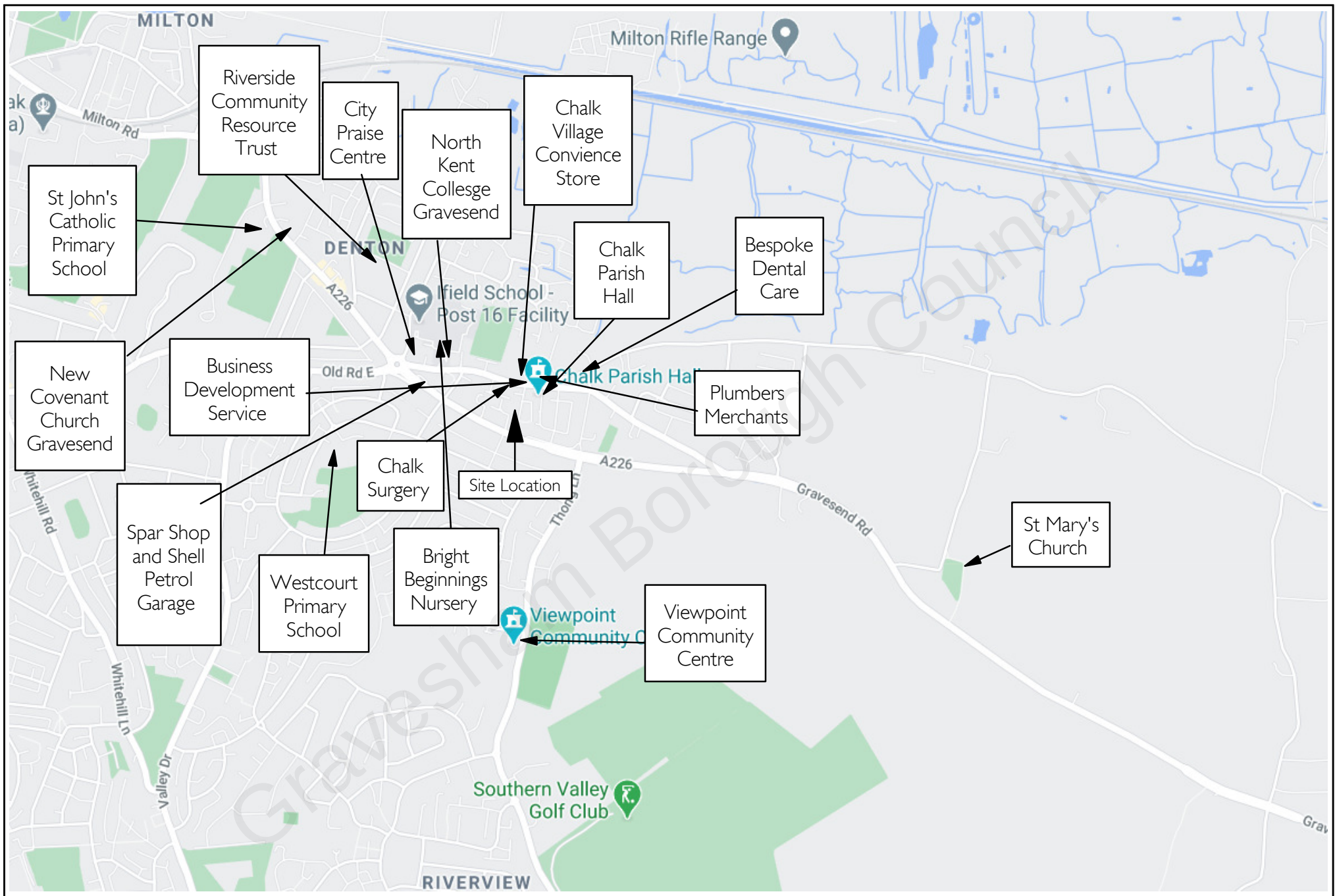


P2577: Garages rear of Osney Way Car Park, Gravesend, DA12 2ND

Figure 3.
 Local Cycle Routes



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Date: November 2021
 Scale: NTS
 Source: Google Maps
 Drawing No: P2577/CTMP/04



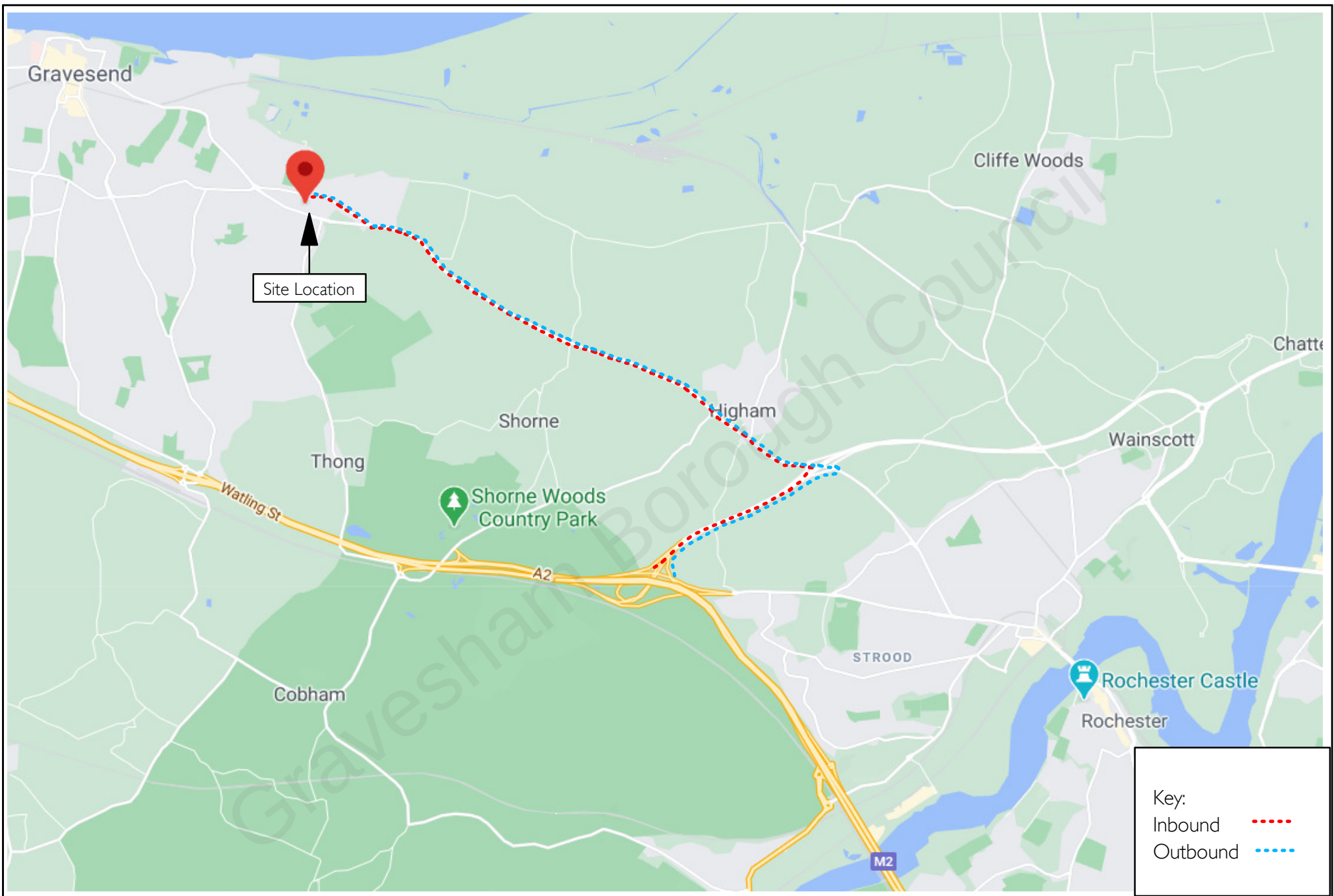
P2577: Garages rear of Osney Way Car Park, Gravesham, DA12 2ND

Figure 4.

Community Considerations



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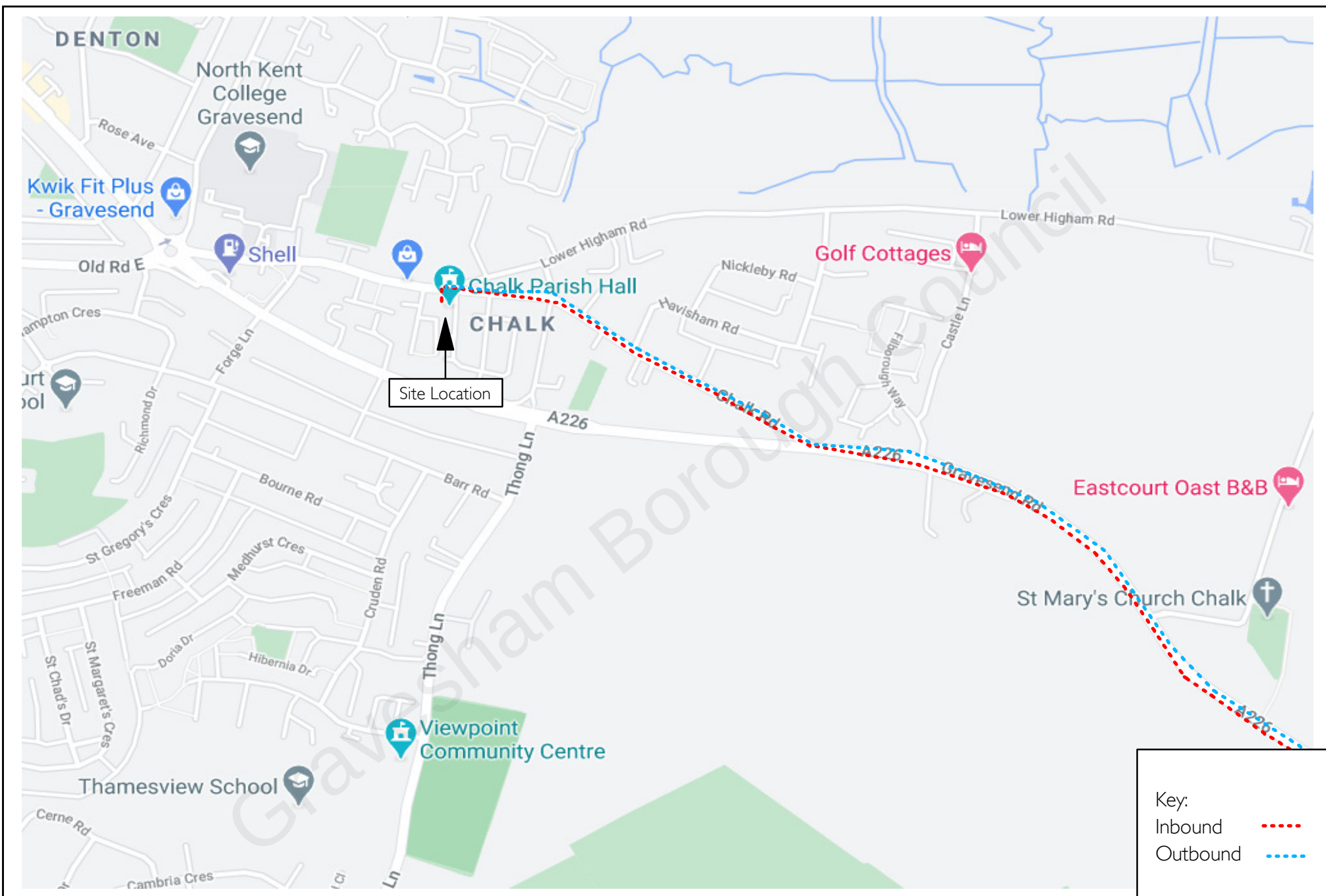
P2577: Garages rear of Osney Way Car Park, Gravesham, DA12 2ND

Figure 5.

Regional Construction Vehicle Routing Plan



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Date: November 2021
 Scale: NTS
 Source: Google Maps
 Drawing No: P2577/CTMP/06



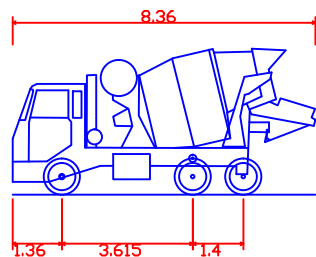
P2577: Garages rear of Osney Way Car Park, Gravesham, DA12 2ND

Figure 6.

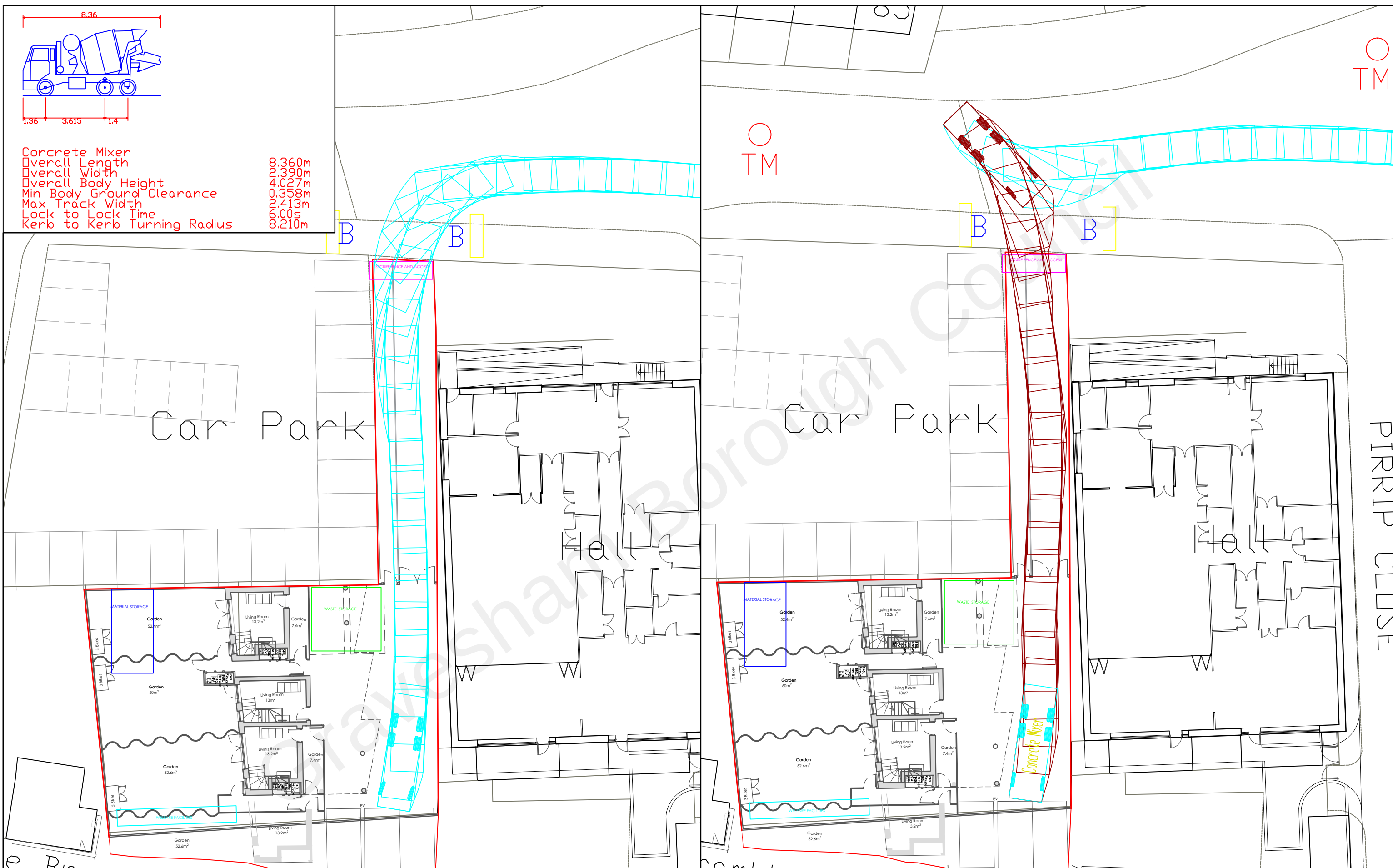
Local Construction Vehicle Routing Plan



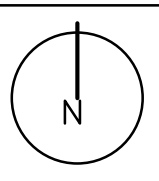
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Concrete Mixer
Overall Length 8.360m
Overall Width 2.390m
Overall Body Height 4.027m
Min Body Ground Clearance 0.358m
Max Track Width 2.413m
Lock to Lock Time 6.00s
Kerb to Kerb Turning Radius 8.210m

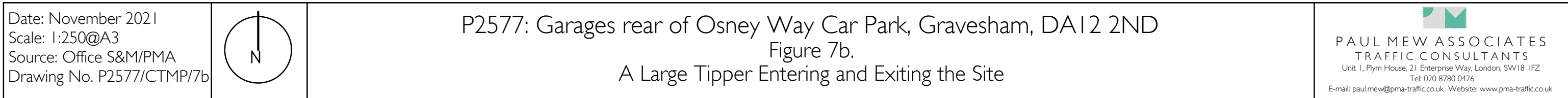


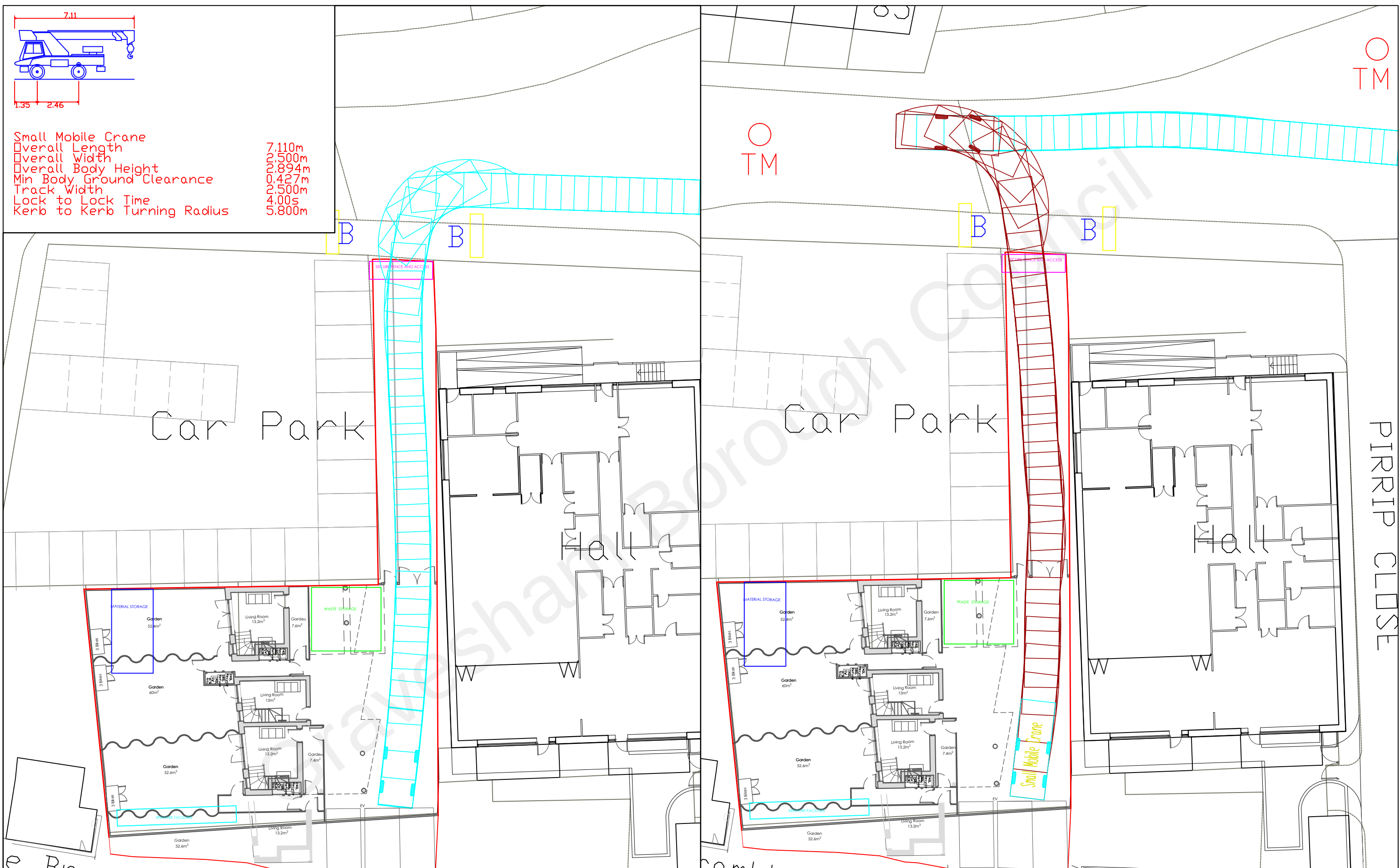
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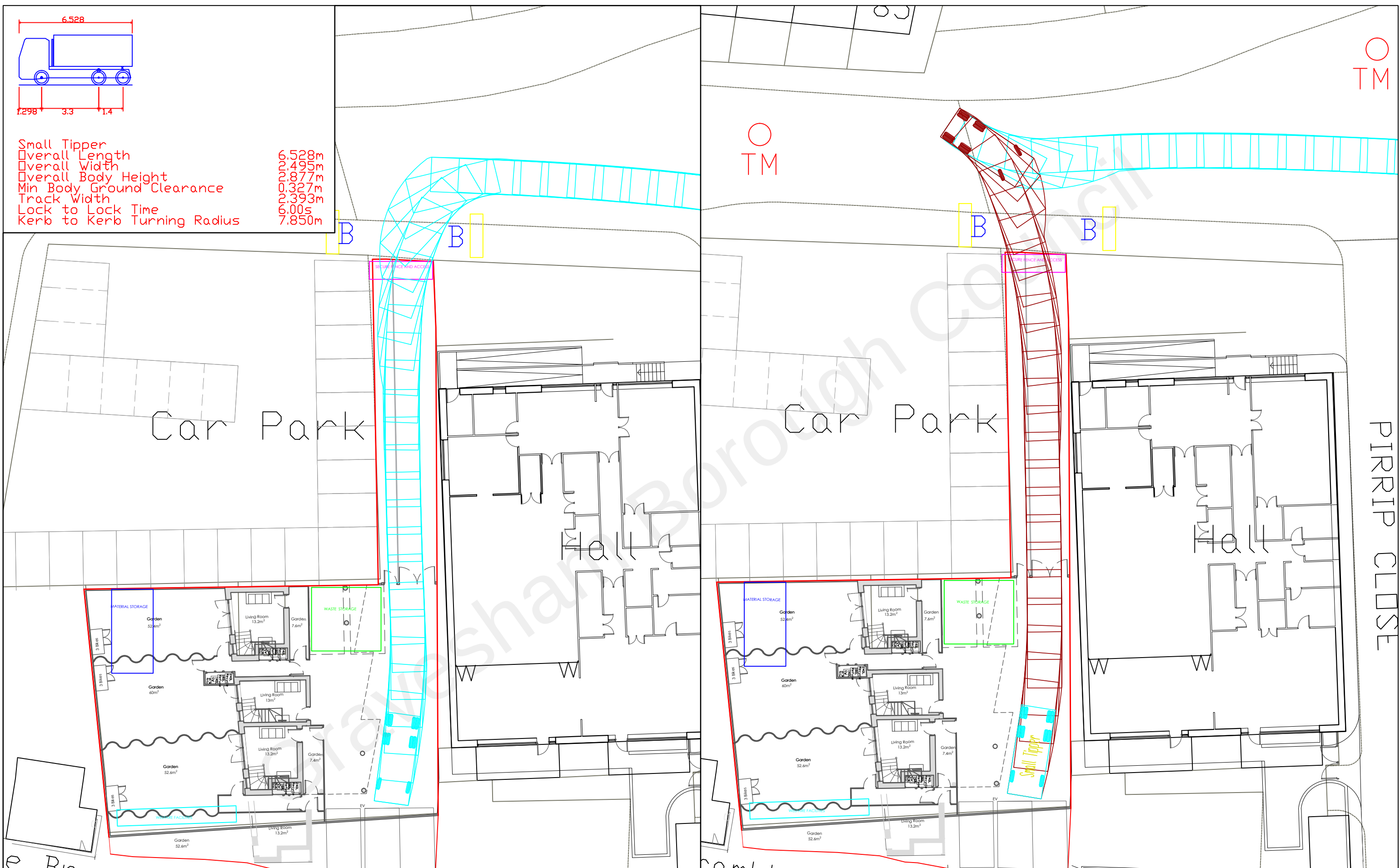


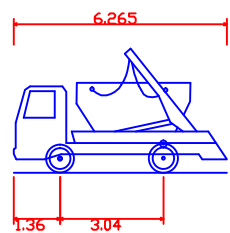
P2577: Garages rear of Osney Way Car Park, Gravesham, DA12 2ND
Figure 7a.
A Concrete Mixer Entering and Exiting the Site

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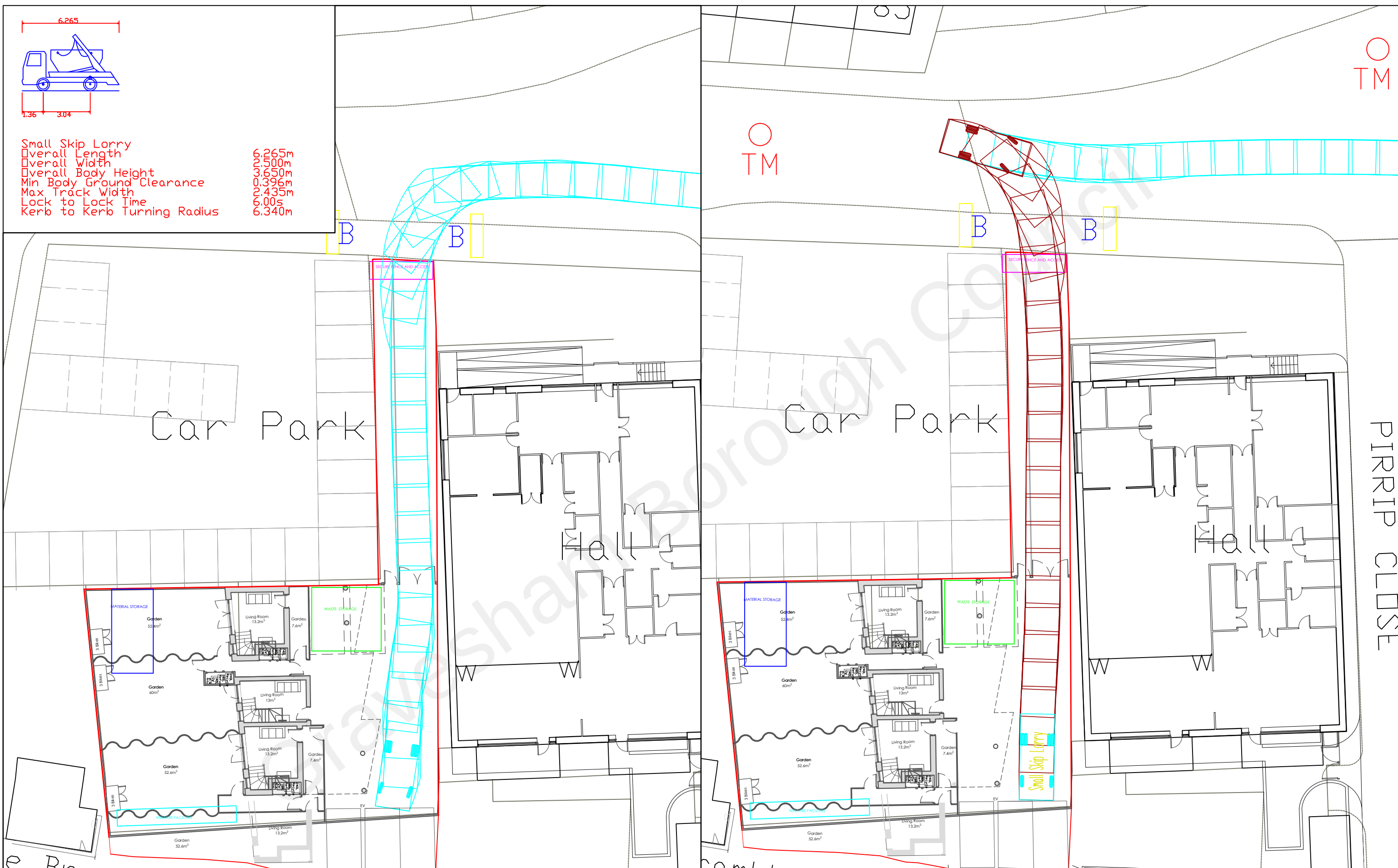




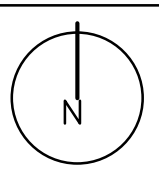




Small Skip Lorry
Overall Length 6.265m
Overall Width 2.500m
Overall Body Height 3.650m
Min Body Ground Clearance 0.396m
Max Track Width 2.435m
Lock to Lock Time 6.00s
Kerb to Kerb Turning Radius 6.340m

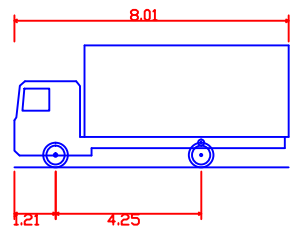


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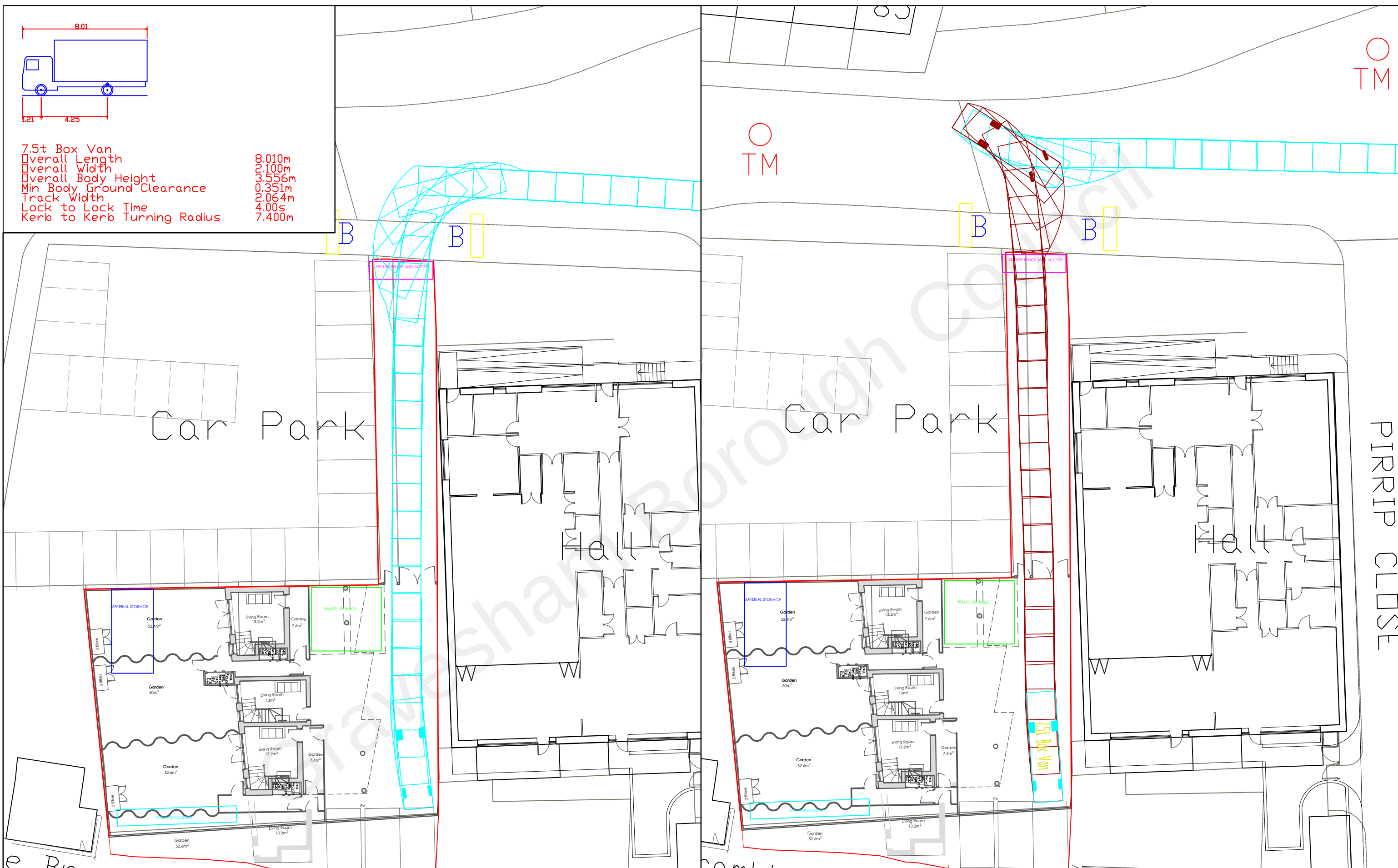


P2577: Garages rear of Osney Way Car Park, Gravesham, DA12 2ND
Figure 7e.
A Skip Lorry Entering and Exiting the Site

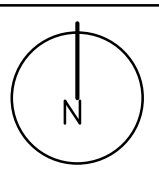
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7.5t Box Van
Overall Length 8.010m
Overall Width 2.100m
Overall Body Height 3.556m
Min Body Ground Clearance 0.351m
Track Width 2.064m
Lock to Lock Time 4.00s
Kerb to Kerb Turning Radius 7.400m

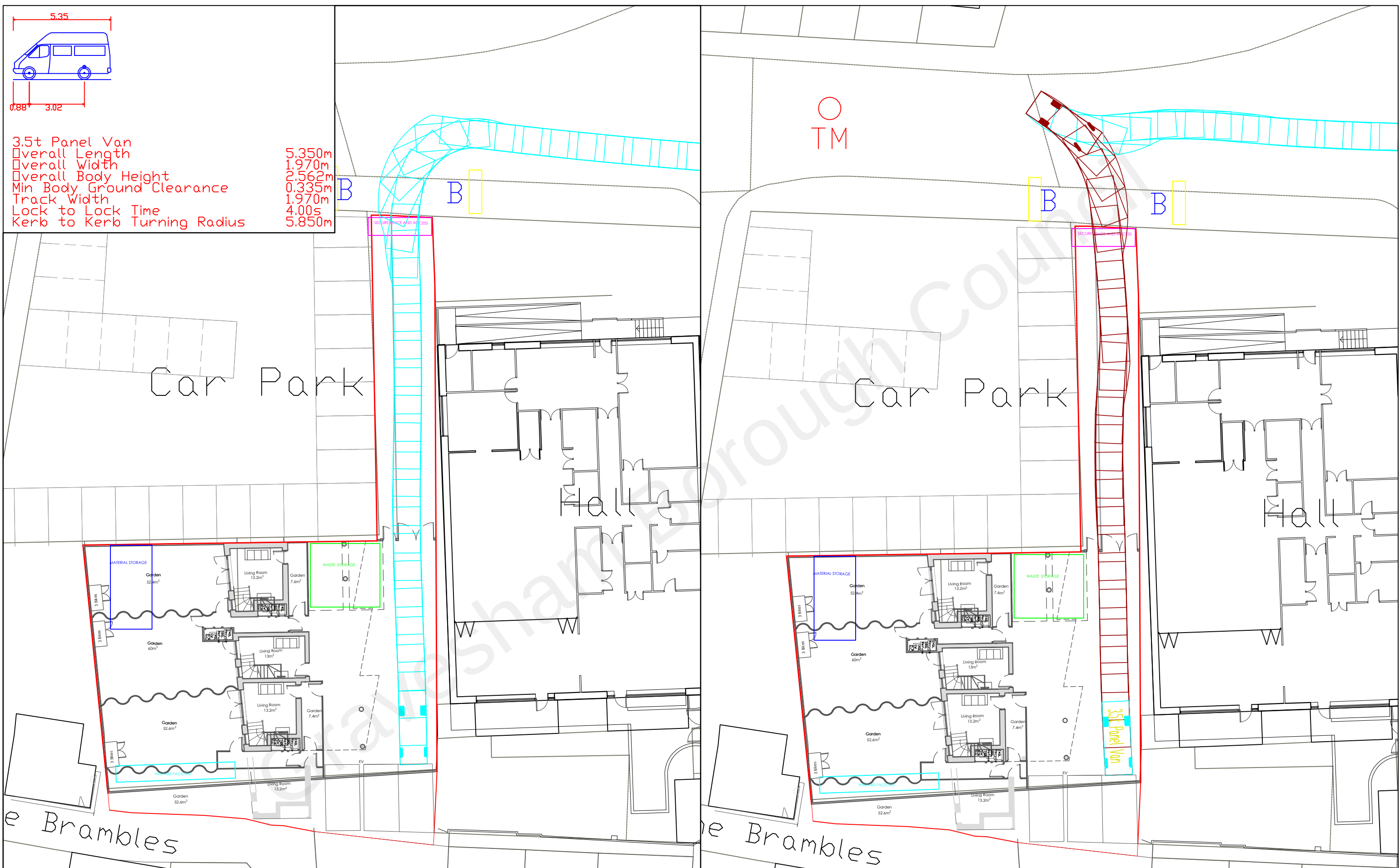


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Source: Office S&M/PMA
Drawing No. P2577/CTMP/7f



P2577: Garages rear of Osney Way Car Park, Gravesham, DA12 2ND
Figure 7f.
A 7.5t Box Van Entering and Exiting the Site


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APPENDIX A Proposed Site Plan

Gravesham Borough Council



Scale: 1:50

0m

1m

2m

3m

4m

5m

Site Boundary

Parish Hall

Gate Width
2590

4279
Access Road

Outline of
building above

Section
AA

East
Elevation

-	15/11/21	Planning	PT	HM
Revision	Date	Description	Drawn	Audited

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Project Name Goldsmith Mews Houses	Project No. 21366	Date Created 09/2021
Drawing Name Proposed Ground Floor Plan	Drawing No. 100	Revision -
Status Planning	Scale 1:50 at A1	North

APPENDIX B
I90 Bus Service Timetable

Gravesham Borough Council

From 25 October to 31 October

Monday-Saturday - towards Chatham Waterfront Bus Station

	190	190	190	190	190	190	190	190	190	190	190	190	190	190	190
Gravesend Railway Station	0920	0940	1000	1020	1040	1100	1120	1140	1200	1220	1240	1300	1320	1340	1400
Gravesend West Street	0922	0942	1002	1022	1042	1102	1122	1142	1202	1222	1242	1302	1322	1342	1402
Gravesend Clock Tower Harmer Street	0923	0943	1003	1023	1043	1103	1123	1143	1203	1223	1243	1303	1323	1343	1403
Gravesend Clock Tower	0924	0944	1004	1024	1044	1104	1124	1144	1204	1224	1244	1304	1324	1344	1404
Milton Albion Road	0925	0945	1005	1025	1045	1105	1125	1145	1205	1225	1245	1305	1325	1345	1405
Milton Church Walk	0926	0946	1006	1026	1046	1106	1126	1146	1206	1226	1246	1306	1326	1346	1406
Denton Milton Ale Shades	0927	0947	1007	1027	1047	1107	1127	1147	1207	1227	1247	1307	1327	1347	1407
Denton Dickens Road	0929	0949	1009	1029	1049	1109	1129	1149	1209	1229	1249	1309	1329	1349	1409
Denton Damigos Road	0931	0951	1011	1031	1051	1111	1131	1151	1211	1231	1251	1311	1331	1351	1411
Chalk North Kent College	0933	0953	1013	1033	1053	1113	1133	1153	1213	1233	1253	1313	1333	1353	1413
Chalk Osney Way	0934	0954	1014	1034	1054	1114	1134	1154	1214	1234	1254	1314	1334	1354	1414
Chalk Vicarage Lane	0934	0954	1014	1034	1054	1114	1134	1154	1214	1234	1254	1314	1334	1354	1414
Chalk Havisham Road	0934	0954	1014	1034	1054	1114	1134	1154	1214	1234	1254	1314	1334	1354	1414
Chalk Road	0935	0955	1015	1035	1055	1115	1135	1155	1215	1235	1255	1315	1335	1355	1415
Chalk Church	0936	0956	1016	1036	1056	1116	1136	1156	1216	1236	1256	1316	1336	1356	1416
Shorne Gravesend Road	0937	0957	1017	1037	1057	1117	1137	1157	1217	1237	1257	1317	1337	1357	1417
Shorne Fairways	0937	0957	1017	1037	1057	1117	1137	1157	1217	1237	1257	1317	1337	1357	1417
Shorne Crossroads	0938	0958	1018	1038	1058	1118	1138	1158	1218	1238	1258	1318	1338	1358	1418
Shorne The Copperfield	0938	0958	1018	1038	1058	1118	1138	1158	1218	1238	1258	1318	1338	1358	1418
Higham The Manor House	0939	0959	1019	1039	1059	1119	1139	1159	1219	1239	1259	1319	1339	1359	1419
Higham Hollytree Drive	0940	1000	1020	1040	1100	1120	1140	1200	1220	1240	1300	1320	1340	1400	1420
Higham Forge Lane	0941	1001	1021	1041	1101	1121	1141	1201	1221	1241	1301	1321	1341	1401	1421
Gadshill Copperfield Crescent	0942	1002	1022	1042	1102	1122	1142	1202	1222	1242	1302	1322	1342	1402	1422
Frindsbury Dillywood Lane	0945	1005	1025	1045	1105	1125	1145	1205	1225	1245	1305	1325	1345	1405	1425
Frindsbury Petrol Station	0947	1007	1027	1047	1107	1127	1147	1207	1227	1247	1307	1327	1347	1407	1427
Frindsbury Gravesend Road	0947	1007	1027	1047	1107	1127	1147	1207	1227	1247	1307	1327	1347	1407	1427
Frindsbury St Nicholas Gardens	0948	1008	1028	1048	1108	1128	1148	1208	1228	1248	1308	1328	1348	1408	1428
Strood The Coach and Horses	0948	1008	1028	1048	1108	1128	1148	1208	1228	1248	1308	1328	1348	1408	1428
Strood Downside	0949	1009	1029	1049	1109	1129	1149	1209	1229	1249	1309	1329	1349	1409	1429
Strood High Street	0950	1010	1030	1050	1110	1130	1150	1210	1230	1250	1310	1330	1350	1410	1430
Strood Canal Road	0952	1012	1032	1052	1112	1132	1152	1212	1232	1252	1312	1332	1352	1412	1432
Rochester Guildhall Museum	0953	1013	1033	1053	1113	1133	1153	1213	1233	1253	1313	1333	1353	1413	1433
Rochester Railway Station	0954	1014	1034	1054	1114	1134	1154	1214	1234	1254	1314	1334	1354	1414	1434
Rochester Community Hub	0954	1014	1034	1054	1114	1134	1154	1214	1234	1254	1314	1334	1354	1414	1434
Rochester Star Hill	0956	1016	1036	1056	1116	1136	1156	1216	1236	1256	1316	1336	1356	1416	1436
Rochester Jacksons Fields	0957	1017	1037	1057	1117	1137	1157	1217	1237	1257	1317	1337	1357	1417	1437
Chatham St Bart's Hospital	0958	1018	1038	1058	1118	1138	1158	1218	1238	1258	1318	1338	1358	1418	1438
Chatham Railway Station New Cut	1001	1021	1041	1101	1121	1141	1201	1221	1241	1301	1321	1341	1401	1421	1441
Chatham Waterfront Bus Station	1004	1024	1044	1104	1124	1144	1204	1224	1244	1304	1324	1344	1404	1424	1444

Monday-Friday - towards Gravesend Railway Station

	190	190 ¹	190	190	190 ¹	190 ¹	190 ¹	190 ¹	190	190	190 ¹	190 ¹	190	190	190	190
Chatham Waterfront Bus Station	0508	0558	0635	0700	0722	0749	0812	0832	0852	0912	0932	0952	1012	1032	1052	1112
Chatham Railway Station	0511	0601	0638	0703	0725	0752	0815	0835	0855	0915	0935	0955	1015	1035	1055	1115
Chatham St Bart's Hospital	0512	0602	0639	0704	0726	0753	0816	0836	0856	0916	0936	0956	1016	1036	1056	1116
Rochester Jacksons Fields	0513	0603	0640	0705	0727	0754	0817	0837	0857	0917	0937	0957	1017	1037	1057	1117
Rochester Star Hill	0514	0604	0641	0706	0728	0755	0818	0838	0858	0918	0938	0958	1018	1038	1058	1118
Rochester Community Hub	0515	0605	0642	0707	0729	0756	0819	0839	0859	0919	0939	0959	1019	1039	1059	1119
Rochester Railway Station	0516	0606	0643	0708	0730	0757	0820	0840	0900	0920	0940	1000	1020	1040	1100	1120
Rochester Guildhall Museum	0516	0606	0643	0709	0731	0758	0821	0841	0901	0921	0941	1001	1021	1041	1101	1121
Strood Canal Road	0519	0609	0646	0712	0734	0801	0824	0844	0904	0924	0944	1004	1024	1044	1104	1124
Strood Commercial Road	0520	0610	0647	0713	0735	0802	0825	0845	0905	0925	0945	1005	1025	1045	1105	1125
Strood Downside	0521	0611	0648	0714	0736	0803	0826	0846	0906	0926	0946	1006	1026	1046	1106	1126
Strood The Coach and Horses	0521	0611	0649	0715	0737	0804	0827	0847	0907	0927	0947	1007	1027	1047	1107	1127
Frindsbury St Nicholas Gardens	0522	0612	0649	0716	0738	0805	0828	0848	0908	0928	0948	1008	1028	1048	1108	1128
Frindsbury Gravesend Road	0522	0612	0650	0716	0738	0805	0828	0848	0908	0928	0948	1008	1028	1048	1108	1128
Frindsbury Petrol Station	0523	0613	0650	0717	0739	0806	0829	0849	0909	0929	0949	1009	1029	1049	1109	1129
Frindsbury Dillywood Lane	0524	0614	0652	0718	0740	0807	0830	0850	0910	0930	0950	1010	1030	1050	1110	1130
Gadshill Copperfield Crescent	0526	0616	0654	0721	0743	0810	0833	0853	0913	0933	0953	1013	1033	1053	1113	1133
Higham Forge Lane	0528	0618	0656	0723	0745	0812	0835	0855	0915	0935	0955	1015	1035	1055	1115	1135

	190	190 ¹	190	190	190 ¹	190 ¹	190 ¹	190 ¹	190	190	190 ¹	190 ¹	190	190	190	190
Higham Pear Tree Lane	0528	0618	0656	0723	0745	0812	0835	0855	0915	0935	0955	1015	1035	1055	1115	1135
Higham The Manor House	0529	0619	0657	0724	0746	0813	0836	0856	0916	0936	0956	1016	1036	1056	1116	1136
Shorne The Copperfield	0529	0619	0657	0725	0746	0813	0836	0856	0916	0936	0956	1016	1036	1056	1116	1136
Shorne Crossroads	0530	0620	0658	0726	0747	0814	0837	0857	0917	0937	0957	1017	1037	1057	1117	1137
Shorne Fairways	0530	0620	0658	0726	0748	0815	0838	0858	0918	0938	0958	1018	1038	1058	1118	1138
Shorne Gravesend Road	0531	0621	0659	0727	0748	0815	0838	0858	0918	0938	0958	1018	1038	1058	1118	1138
Chalk Church	0531	0621	0659	0728	0749	0816	0839	0859	0919	0939	0959	1019	1039	1059	1119	1139
Chalk Havisham Road	0533	0623	0701	0730	0751	0818	0841	0901	0921	0941	1001	1021	1041	1101	1121	1141
Chalk Vicarage Lane	0533	0623	0701	0730	0751	0818	0841	0901	0921	0941	1001	1021	1041	1101	1121	1141
Chalk Osney Way	0534	0624	0702	0731	0752	0819	0842	0902	0922	0942	1002	1022	1042	1102	1122	1142
Denton Damigos Road	0537	0627	0705	0734	0755	0822	0845	0905	0925	0945	1005	1025	1045	1105	1125	1145
Denton Lion Garage	0538	0628	0706	0735	0756	0823	0846	0906	0926	0946	1006	1026	1046	1106	1126	1146
Denton Abbey Road	0539	0629	0707	0737	0757	0824	0847	0907	0927	0947	1007	1027	1047	1107	1127	1147
Denton St John's School	0540	0630	0708	0738	0758	0825	0848	0908	0928	0948	1008	1028	1048	1108	1128	1148
Milton Church Walk	0541	0631	0710	0739	0800	0827	0850	0910	0930	0950	1010	1030	1050	1110	1130	1150
Milton Albion Road	0542	0632	0711	0741	0801	0828	0851	0911	0931	0951	1011	1031	1051	1111	1131	1151
Gravesend Clock Tower	0543	0633	0712	0742	0802	0829	0852	0912	0932	0952	1012	1032	1052	1112	1132	1152
Gravesend King Street	0544	0634	0713	0743	0803	0830	0853	0913	0933	0953	1013	1033	1053	1113	1133	1153
Gravesend Railway Station	0545	0635	0715	0745	0805	0832	0855	0915	0935	0955	1015	1035	1055	1115	1135	1155

¹ Only During School Holidays

Monday-Friday - towards Gravesend Railway Station

	190	190	190	190	190	190	190	190	190	190	190	190 ¹	190	190 ¹	190 ¹	190 ¹
Chatham Waterfront Bus Station	1132	1152	1212	1232	1252	1312	1332	1352	1412	1432	1455	1520	1545	1610	1635	1700
Chatham Railway Station	1135	1155	1215	1235	1255	1315	1335	1355	1415	1435	1458	1524	1549	1614	1639	1704
Chatham St Bart's Hospital	1136	1156	1216	1236	1256	1316	1336	1356	1416	1436	1459	1525	1550	1615	1640	1705
Rochester Jacksons Fields	1137	1157	1217	1237	1257	1317	1337	1357	1417	1437	1500	1527	1552	1617	1641	1706
Rochester Star Hill	1138	1158	1218	1238	1258	1318	1338	1358	1418	1438	1501	1527	1552	1617	1642	1707
Rochester Community Hub	1139	1159	1219	1239	1259	1319	1339	1359	1419	1439	1502	1529	1554	1619	1643	1708
Rochester Railway Station	1140	1200	1220	1240	1300	1320	1340	1400	1420	1440	1503	1530	1555	1620	1644	1709
Rochester Guildhall Museum	1141	1201	1221	1241	1301	1321	1341	1401	1421	1441	1504	1531	1557	1622	1646	1711
Strood Canal Road	1144	1204	1224	1244	1304	1324	1344	1404	1424	1444	1507	1534	1601	1626	1650	1715
Strood Commercial Road	1145	1205	1225	1245	1305	1325	1345	1405	1425	1445	1508	1535	1602	1627	1651	1716
Strood Downside	1146	1206	1226	1246	1306	1326	1346	1406	1426	1446	1509	1536	1603	1628	1652	1717
Strood The Coach and Horses	1147	1207	1227	1247	1307	1327	1347	1407	1427	1447	1510	1537	1604	1629	1653	1718
Frindsbury St Nicholas Gardens	1148	1208	1228	1248	1308	1328	1348	1408	1428	1448	1511	1538	1605	1630	1654	1719
Frindsbury Gravesend Road	1148	1208	1228	1248	1308	1328	1348	1408	1428	1448	1512	1539	1606	1631	1654	1719
Frindsbury Petrol Station	1149	1209	1229	1249	1309	1329	1349	1409	1429	1449	1512	1539	1606	1631	1655	1720
Frindsbury Dillywood Lane	1150	1210	1230	1250	1310	1330	1350	1410	1430	1450	1514	1541	1608	1633	1656	1721
Gadshill Copperfield Crescent	1153	1213	1233	1253	1313	1333	1353	1413	1433	1453	1517	1544	1611	1636	1659	1724
Higham Forge Lane	1155	1215	1235	1255	1315	1335	1355	1415	1435	1455	1519	1546	1613	1638	1701	1726
Higham Pear Tree Lane	1155	1215	1235	1255	1315	1335	1355	1415	1435	1455	1519	1546	1613	1638	1701	1726
Higham The Manor House	1156	1216	1236	1256	1316	1336	1356	1416	1436	1456	1520	1547	1614	1639	1702	1727
Shorne The Copperfield	1156	1216	1236	1256	1316	1336	1356	1416	1436	1456	1520	1547	1614	1639	1702	1727
Shorne Crossroads	1157	1217	1237	1257	1317	1337	1357	1417	1437	1457	1521	1548	1615	1640	1703	1728
Shorne Fairways	1158	1218	1238	1258	1318	1338	1358	1418	1438	1458	1522	1549	1616	1641	1704	1729
Shorne Gravesend Road	1158	1218	1238	1258	1318	1338	1358	1418	1438	1458	1522	1549	1616	1641	1704	1729
Chalk Church	1159	1219	1239	1259	1319	1339	1359	1419	1439	1459	1523	1550	1617	1642	1705	1730
Chalk Havisham Road	1201	1221	1241	1301	1321	1341	1401	1421	1441	1501	1525	1552	1619	1644	1707	1732
Chalk Vicarage Lane	1201	1221	1241	1301	1321	1341	1401	1421	1441	1501	1525	1552	1619	1644	1707	1732
Chalk Osney Way	1202	1222	1242	1302	1322	1342	1402	1422	1442	1502	1526	1553	1620	1645	1708	1733
Denton Damigos Road	1205	1225	1245	1305	1325	1345	1405	1425	1445	1505	1529	1556	--	--	--	--
Denton Lion Garage	1206	1226	1246	1306	1326	1346	1406	1426	1446	1506	1530	1557	1621	1646	1709	1734
Denton Abbey Road	1207	1227	1247	1307	1327	1347	1407	1427	1447	1507	1532	1559	1623	1648	1711	1736
Denton St John's School	1208	1228	1248	1308	1328	1348	1408	1428	1448	1508	1533	1600	1624	1649	1712	1737
Milton Church Walk	1210	1230	1250	1310	1330	1350	1410	1430	1450	1510	1534	1601	1626	1651	1714	1739
Milton Albion Road	1211	1231	1251	1311	1331	1351	1411	1431	1451	1511	1536	1603	1627	1652	1715	1740
Gravesend Clock Tower	1212	1232	1252	1312	1332	1352	1412	1432	1452	1512	1537	1604	1629	1654	1717	1742
Gravesend King Street	1213	1233	1253	1313	1333	1353	1413	1433	1453	1513	1538	1605	1630	1655	1718	1743
Gravesend Railway Station	1215	1235	1255	1315	1335	1355	1415	1435	1455	1515	1540	1607	1632	1657	1720	1745

¹ Only During School Holidays

Monday-Friday - towards Gravesend Railway Station

	190 ¹	190 ¹	190 ¹	190 ¹
Chatham Waterfront Bus Station	1720	1745	1810	1830
Chatham Railway Station	1724	1749	1813	1833

	190 ¹	190 ¹	190 ¹	190 ¹
Chatham St Bart's Hospital	1725	1750	1814	1834
Rochester Jacksons Fields	1726	1751	1815	1835
Rochester Star Hill	1727	1752	1816	1836
Rochester Community Hub	1728	1753	1817	1837
Rochester Railway Station	1729	1754	1818	1838
Rochester Guildhall Museum	1731	1756	1819	1839
Strood Canal Road	1735	1800	1823	1842
Strood Commercial Road	1736	1801	1824	1843
Strood Downside	1737	1802	1825	1844
Strood The Coach and Horses	1738	1803	1826	1844
Frindsbury St Nicholas Gardens	1739	1803	1826	1845
Frindsbury Gravesend Road	1739	1804	1827	1845
Frindsbury Petrol Station	1740	1804	1827	1846
Frindsbury Dillywood Lane	1741	1806	1829	1847
Gadshill Copperfield Crescent	1744	1808	1831	1849
Higham Forge Lane	1746	1810	1833	1851
Higham Pear Tree Lane	1746	1810	1833	1851
Higham The Manor House	1747	1811	1834	1852
Shorne The Copperfield	1747	1811	1834	1852
Shorne Crossroads	1748	1812	1835	1853
Shorne Fairways	1749	1812	1835	1853
Shorne Gravesend Road	1749	1813	1836	1854
Chalk Church	1750	1813	1836	1854
Chalk Havisham Road	1752	1815	1838	1856
Chalk Vicarage Lane	1752	1815	1838	1856
Chalk Osney Way	1753	1816	1839	1857
Denton Lion Garage	1754	1817	1840	1858
Denton Abbey Road	1756	1818	1841	1859
Denton St John's School	1757	1820	1842	1900
Milton Church Walk	1759	1821	1843	1901
Milton Albion Road	1800	1823	1844	1902
Gravesend Clock Tower	1802	1824	1846	1904
Gravesend King Street	1803	1825	1847	1905
Gravesend Railway Station	1805	1827	1848	1906

¹ Only During School Holidays

Monday-Friday - towards Chatham Waterfront Bus Station

	190	190 ¹	190 ¹	190 ¹	190 ¹	190 ¹	190 ¹	190	190	190 ¹	190 ¹	190 ¹	190 ¹	190 ¹	190 ¹	190 ¹	190 ¹
Gravesend Railway Station	0553	0642	0736	0800	0820	0837	0900	1420	1445	1514	1542	1605	1624	1651	1716	1740	
Gravesend West Street	0554	0644	0738	0802	0822	0839	0902	1422	1447	1516	1544	1607	1626	1653	1718	1742	
Gravesend Clock Tower Harmer Street	0556	0646	0739	0803	0823	0841	0903	1424	1449	1517	1545	1609	1628	1655	1720	1744	
Gravesend Clock Tower	0556	0646	0740	0804	0824	0842	0904	1424	1450	1518	1546	1609	1629	1656	1721	1745	
Milton Albion Road	0557	0648	0741	0805	0825	0843	0905	1426	1451	1519	1547	1610	1630	1657	1722	1746	
Milton Church Walk	0558	0649	0742	0806	0826	0844	0906	1427	1452	1520	1548	1611	1631	1658	1723	1747	
Denton Milton Ale Shades	0559	0650	0743	0807	0827	0845	0907	1428	1453	1521	1549	1612	1633	1700	1725	1749	
Denton Dickens Road	0600	0652	0745	0809	0829	0847	0909	1430	1455	1523	1551	1614	1635	1702	1727	1751	
Denton Damigos Road	0602	0654	0747	0811	0831	0850	0911	1432	1458	1525	1553	--	--	--	--	--	
Chalk North Kent College	0604	0656	0749	0813	0833	0852	0913	1434	1500	1527	1555	1615	1636	1703	1728	1752	
Chalk Osney Way	0605	0657	0750	0814	0834	0853	0914	1435	1501	1528	1556	1617	1638	1705	1730	1754	
Chalk Vicarage Lane	0605	0657	0750	0814	0834	0853	0914	1435	1501	1528	1556	1617	1638	1705	1730	1754	
Chalk Havisham Road	0605	0657	0750	0814	0834	0853	0914	1435	1501	1528	1556	1617	1638	1705	1730	1754	
Chalk Road	0606	0658	0751	0815	0835	0854	0915	1436	1502	1529	1557	1618	1639	1706	1731	1755	
Chalk Church	0606	0659	0752	0816	0836	0855	0916	1437	1503	1530	1558	1619	1640	1707	1732	1756	
Shorne Gravesend Road	0607	0700	0753	0817	0837	0856	0917	1438	1504	1531	1559	1620	1641	1708	1733	1757	
Shorne Fairways	0608	0701	0753	0817	0837	0856	0917	1438	1504	1531	1559	1620	1641	1708	1733	1757	
Shorne Crossroads	0608	0701	0754	0818	0838	0857	0918	1439	1505	1532	1600	1621	1642	1709	1734	1758	
Shorne The Copperfield	0609	0702	0754	0818	0838	0857	0918	1439	1505	1532	1600	1621	1642	1709	1734	1758	
Higham The Manor House	0609	0703	0755	0819	0839	0858	0919	1440	1506	1533	1601	1622	1643	1710	1735	1759	
Higham Hollytree Drive	0610	0704	0756	0820	0840	0859	0920	1441	1507	1534	1602	1623	1644	1711	1736	1800	
Higham Forge Lane	0611	0705	0757	0821	0841	0900	0921	1442	1508	1535	1603	1624	1645	1712	1737	1801	
Gadshill Copperfield Crescent	0611	0706	0758	0822	0842	0901	0922	1443	1509	1536	1604	1625	1646	1713	1738	1802	
Frindsbury Dillywood Lane	0614	0709	0801	0825	0845	0904	0925	1446	1512	1539	1607	1628	1649	1716	1741	1805	
Frindsbury Petrol Station	0615	0711	0803	0827	0847	0906	0927	1448	1514	1541	1609	1630	1651	1718	1743	1807	
Frindsbury Gravesend Road	0616	0712	0803	0827	0847	0906	0927	1449	1515	1541	1609	1630	1651	1718	1743	1807	
Frindsbury St Nicholas Gardens	0616	0712	0804	0828	0848	0907	0928	1449	1515	1542	1610	1631	1652	1719	1744	1808	
Strood The Coach and Horses	0617	0713	0804	0828	0848	0907	0928	1450	1516	1542	1610	1631	1652	1719	1744	1808	
Strood Downside	0618	0714	0805	0829	0849	0908	0929	1451	1517	1543	1611	1632	1653	1720	1745	1809	
Strood High Street	0618	0715	0806	0830	0850	0909	0930	1452	1518	1544	1612	1633	1654	1721	1746	1810	

	190	190 ¹	190 ¹	190 ¹	190 ¹	190 ¹	190 ¹	190	190	190 ¹	190 ¹	190 ¹	190 ¹	190 ¹	190 ¹	190 ¹
Strood Canal Road	0620	0717	0808	0832	0852	0911	0932	1454	1520	1546	1614	1635	1656	1723	1748	1812
Rochester Guildhall Museum	0621	0718	0809	0833	0853	0912	0933	1455	1521	1547	1615	1636	1657	1724	1749	1813
Rochester Railway Station	0621	0719	0810	0834	0854	0913	0934	1456	1522	1548	1616	1637	1658	1725	1750	1814
Rochester Community Hub	0622	0719	0810	0834	0854	0913	0934	1456	1522	1548	1616	1637	1658	1725	1750	1814
Rochester Star Hill	0623	0721	0812	0836	0856	0915	0936	1458	1524	1550	1618	1639	1700	1727	1752	1816
Rochester Jacksons Fields	0624	0722	0813	0837	0857	0916	0937	1459	1525	1551	1619	1640	1701	1728	1753	1817
Chatham St Bart's Hospital	0625	0724	0814	0838	0858	0917	0938	1501	1527	1552	1620	1641	1702	1729	1754	1818
Chatham Railway Station New Cut	0627	0727	0817	0841	0901	0920	0941	1504	1530	1555	1623	1644	1705	1732	1757	1821
Chatham Waterfront Bus Station	0630	0730	0820	0844	0904	0924	0944	1507	1533	1558	1626	1647	1708	1735	1800	1824

¹ Only During School Holidays

Monday-Friday - towards Chatham Waterfront Bus Station

	190 ¹	190 ¹	190 ¹	190 ¹	190 ¹
Gravesend Railway Station	1801	1815	1835	1855	1920
Gravesend West Street	1803	1817	1837	1857	1922
Gravesend Clock Tower Harmer Street	1805	1819	1838	1858	1923
Gravesend Clock Tower	1806	1819	1838	1858	1923
Milton Albion Road	1807	1820	1839	1859	1924
Milton Church Walk	1808	1821	1840	1900	1925
Denton Milton Ale Shades	1810	1822	1841	1901	1926
Denton Dickens Road	1812	1824	1843	1903	1928
Chalk North Kent College	1813	1825	1843	1903	1928
Chalk Osney Way	1815	1827	1845	1905	1930
Chalk Vicarage Lane	1815	1827	1845	1905	1930
Chalk Havisham Road	1815	1827	1845	1905	1930
Chalk Road	1816	1828	1846	1906	1931
Chalk Church	1817	1829	1847	1907	1932
Shorne Gravesend Road	1818	1830	1848	1908	1933
Shorne Fairways	1818	1830	1848	1908	1933
Shorne Crossroads	1819	1831	1849	1909	1934
Shorne The Copperfield	1819	1831	1849	1909	1934
Higham The Manor House	1820	1832	1850	1910	1935
Higham Hollytree Drive	1821	1833	1851	1911	1936
Higham Forge Lane	1822	1834	1852	1912	1937
Gadshill Copperfield Crescent	1823	1835	1853	1913	1937
Frindsbury Dillywood Lane	1826	1839	1856	1916	1940
Frindsbury Petrol Station	1828	1842	1858	1918	1942
Frindsbury Gravesend Road	1828	1843	1858	1918	1943
Frindsbury St Nicholas Gardens	1829	1843	1859	1919	1943
Strood The Coach and Horses	1829	1844	1859	1919	1943
Strood Downside	1830	1845	1900	1920	1944
Strood High Street	1831	1846	1901	1921	1945
Strood Canal Road	1833	1849	1903	1923	1947
Rochester Guildhall Museum	1834	1850	1904	1924	1948
Rochester Railway Station	1835	1851	1905	1925	1949
Rochester Community Hub	1835	1851	1905	1925	1949
Rochester Star Hill	1837	1853	1907	1927	1951
Rochester Jacksons Fields	1838	1854	1908	1928	1952
Chatham St Bart's Hospital	1839	1856	1910	1929	1953
Chatham Railway Station New Cut	1842	1859	1913	1932	1956
Chatham Waterfront Bus Station	1845	1902	1916	1935	1959

¹ Only During School Holidays

Saturday - towards Gravesend Railway Station

	190	190	190	190	190	190	190	190	190	190	190	190	190	190	190	190
Chatham Waterfront Bus Station	0712	0755	0832	0852	0912	0932	0952	1012	1032	1052	1112	1132	1152	1212	1232	1252
Chatham Railway Station	0715	0758	0835	0855	0915	0935	0955	1015	1035	1055	1115	1135	1155	1215	1235	1255
Chatham St Bart's Hospital	0716	0759	0836	0856	0916	0936	0956	1016	1036	1056	1116	1136	1156	1216	1236	1256
Rochester Jacksons Fields	0716	0800	0837	0857	0917	0937	0957	1017	1037	1057	1117	1137	1157	1217	1237	1257
Rochester Star Hill	0717	0801	0838	0858	0918	0938	0958	1018	1038	1058	1118	1138	1158	1218	1238	1258
Rochester Community Hub	0718	0802	0839	0859	0919	0939	0959	1019	1039	1059	1119	1139	1159	1219	1239	1259
Rochester Railway Station	0719	0803	0840	0900	0920	0940	1000	1020	1040	1100	1120	1140	1200	1220	1240	1300
Rochester Guildhall Museum	0720	0804	0841	0901	0921	0941	1001	1021	1041	1101	1121	1141	1201	1221	1241	1301
Strood Canal Road	0723	0807	0844	0904	0924	0944	1004	1024	1044	1104	1124	1144	1204	1224	1244	1304
Strood Commercial Road	0723	0807	0845	0905	0925	0945	1005	1025	1045	1105	1125	1145	1205	1225	1245	1305
Strood Downside	0724	0808	0846	0906	0926	0946	1006	1026	1046	1106	1126	1146	1206	1226	1246	1306

	190	190	190	190	190	190	190	190	190	190	190	190	190	190	190	190
Strood The Coach and Horses	0725	0809	0847	0907	0927	0947	1007	1027	1047	1107	1127	1147	1207	1227	1247	1307
Frindsbury St Nicholas Gardens	0725	0809	0848	0908	0928	0948	1008	1028	1048	1108	1128	1148	1208	1228	1248	1308
Frindsbury Gravesend Road	0726	0810	0848	0908	0928	0948	1008	1028	1048	1108	1128	1148	1208	1228	1248	1308
Frindsbury Petrol Station	0726	0810	0849	0909	0929	0949	1009	1029	1049	1109	1129	1149	1209	1229	1249	1309
Frindsbury Dillywood Lane	0727	0811	0850	0910	0930	0950	1010	1030	1050	1110	1130	1150	1210	1230	1250	1310
Gadshill Copperfield Crescent	0730	0814	0853	0913	0933	0953	1013	1033	1053	1113	1133	1153	1213	1233	1253	1313
Higham Forge Lane	0731	0815	0855	0915	0935	0955	1015	1035	1055	1115	1135	1155	1215	1235	1255	1315
Higham Pear Tree Lane	0731	0815	0855	0915	0935	0955	1015	1035	1055	1115	1135	1155	1215	1235	1255	1315
Higham The Manor House	0732	0816	0856	0916	0936	0956	1016	1036	1056	1116	1136	1156	1216	1236	1256	1316
Shorne The Copperfield	0732	0816	0856	0916	0936	0956	1016	1036	1056	1116	1136	1156	1216	1236	1256	1316
Shorne Crossroads	0733	0817	0857	0917	0937	0957	1017	1037	1057	1117	1137	1157	1217	1237	1257	1317
Shorne Fairways	0733	0817	0858	0918	0938	0958	1018	1038	1058	1118	1138	1158	1218	1238	1258	1318
Shorne Gravesend Road	0734	0818	0858	0918	0938	0958	1018	1038	1058	1118	1138	1158	1218	1238	1258	1318
Chalk Church	0734	0818	0859	0919	0939	0959	1019	1039	1059	1119	1139	1159	1219	1239	1259	1319
Chalk Havisham Road	0736	0820	0901	0921	0941	1001	1021	1041	1101	1121	1141	1201	1221	1241	1301	1321
Chalk Vicarage Lane	0736	0820	0901	0921	0941	1001	1021	1041	1101	1121	1141	1201	1221	1241	1301	1321
Chalk Osney Way	0737	0821	0902	0922	0942	1002	1022	1042	1102	1122	1142	1202	1222	1242	1302	1322
Denton Damigos Road	0740	0824	0905	0925	0945	1005	1025	1045	1105	1125	1145	1205	1225	1245	1305	1325
Denton Lion Garage	0742	0826	0907	0927	0947	1007	1027	1047	1107	1127	1147	1207	1227	1247	1307	1327
Denton Abbey Road	0743	0827	0908	0928	0948	1008	1028	1048	1108	1128	1148	1208	1228	1248	1308	1328
Denton St John's School	0744	0828	0909	0929	0949	1009	1029	1049	1109	1129	1149	1209	1229	1249	1309	1329
Milton Church Walk	0746	0830	0911	0931	0951	1011	1031	1051	1111	1131	1151	1211	1231	1251	1311	1331
Milton Albion Road	0747	0831	0912	0932	0952	1012	1032	1052	1112	1132	1152	1212	1232	1252	1312	1332
Gravesend Clock Tower	0748	0832	0913	0933	0953	1013	1033	1053	1113	1133	1153	1213	1233	1253	1313	1333
Gravesend King Street	0749	0833	0914	0934	0954	1014	1034	1054	1114	1134	1154	1214	1234	1254	1314	1334
Gravesend Railway Station	0750	0834	0915	0935	0955	1015	1035	1055	1115	1135	1155	1215	1235	1255	1315	1335

Saturday - towards Gravesend Railway Station

	190	190	190	190	190	190	190	190	190	190	190	190	190
Chatham Waterfront Bus Station	1312	1332	1352	1412	1432	1452	1512	1532	1602	1632	1702	1732	1802
Chatham Railway Station	1315	1335	1355	1415	1435	1455	1515	1535	1605	1635	1705	1735	1805
Chatham St Bart's Hospital	1316	1336	1356	1416	1436	1456	1516	1536	1606	1636	1706	1736	1806
Rochester Jacksons Fields	1317	1337	1357	1417	1437	1457	1517	1537	1607	1637	1707	1737	1807
Rochester Star Hill	1318	1338	1358	1418	1438	1458	1518	1538	1608	1638	1708	1738	1808
Rochester Community Hub	1319	1339	1359	1419	1439	1459	1519	1539	1609	1639	1709	1739	1809
Rochester Railway Station	1320	1340	1400	1420	1440	1500	1520	1540	1610	1640	1710	1740	1810
Rochester Guildhall Museum	1321	1341	1401	1421	1441	1501	1521	1541	1611	1641	1711	1741	1811
Strood Canal Road	1324	1344	1404	1424	1444	1504	1524	1544	1614	1644	1714	1744	1814
Strood Commercial Road	1325	1345	1405	1425	1445	1505	1525	1545	1614	1644	1714	1744	1814
Strood Downside	1326	1346	1406	1426	1446	1506	1526	1546	1615	1645	1715	1745	1815
Strood The Coach and Horses	1327	1347	1407	1427	1447	1507	1527	1547	1616	1646	1716	1746	1816
Frindsbury St Nicholas Gardens	1328	1348	1408	1428	1448	1508	1528	1548	1616	1646	1716	1746	1816
Frindsbury Gravesend Road	1328	1348	1408	1428	1448	1508	1528	1548	1617	1647	1717	1747	1817
Frindsbury Petrol Station	1329	1349	1409	1429	1449	1509	1529	1549	1617	1647	1717	1747	1817
Frindsbury Dillywood Lane	1330	1350	1410	1430	1450	1510	1530	1550	1618	1648	1718	1748	1818
Gadshill Copperfield Crescent	1333	1353	1413	1433	1453	1513	1533	1553	1621	1651	1721	1751	1821
Higham Forge Lane	1335	1355	1415	1435	1455	1515	1535	1555	1622	1652	1722	1752	1822
Higham Pear Tree Lane	1335	1355	1415	1435	1455	1515	1535	1555	1622	1652	1722	1752	1822
Higham The Manor House	1336	1356	1416	1436	1456	1516	1536	1556	1623	1653	1723	1753	1823
Shorne The Copperfield	1336	1356	1416	1436	1456	1516	1536	1556	1623	1653	1723	1753	1823
Shorne Crossroads	1337	1357	1417	1437	1457	1517	1537	1557	1624	1654	1724	1754	1824
Shorne Fairways	1338	1358	1418	1438	1458	1518	1538	1558	1624	1654	1724	1754	1824
Shorne Gravesend Road	1338	1358	1418	1438	1458	1518	1538	1558	1625	1655	1725	1755	1825
Chalk Church	1339	1359	1419	1439	1459	1519	1539	1559	1625	1655	1725	1755	1825
Chalk Havisham Road	1341	1401	1421	1441	1501	1521	1541	1601	1627	1657	1727	1757	1827
Chalk Vicarage Lane	1341	1401	1421	1441	1501	1521	1541	1601	1627	1657	1727	1757	1827
Chalk Osney Way	1342	1402	1422	1442	1502	1522	1542	1602	1628	1658	1728	1758	1828
Denton Damigos Road	1345	1405	1425	1445	1505	1525	1545	--	--	--	--	--	--
Denton Lion Garage	1347	1407	1427	1447	1507	1527	1547	1603	1629	1659	1729	1759	1829
Denton Abbey Road	1348	1408	1428	1448	1508	1528	1548	1604	1630	1700	1730	1800	1830
Denton St John's School	1349	1409	1429	1449	1509	1529	1549	1606	1632	1702	1732	1802	1832
Milton Church Walk	1351	1411	1431	1451	1511	1531	1551	1607	1633	1703	1733	1803	1833
Milton Albion Road	1352	1412	1432	1452	1512	1532	1552	1609	1635	1705	1735	1805	1835
Gravesend Clock Tower	1353	1413	1433	1453	1513	1533	1553	1610	1636	1706	1736	1806	1836
Gravesend King Street	1354	1414	1434	1454	1514	1534	1554	1611	1637	1707	1737	1807	1837
Gravesend Railway Station	1355	1415	1435	1455	1515	1535	1555	1613	1639	1709	1739	1809	1839

Saturday - towards Chatham Waterfront Bus Station

	190	190	190	190	190	190	190	190	190	190	190	190	190	190
Gravesend Railway Station	0757	0840	1420	1440	1500	1520	1540	1617	1647	1717	1747	1817	1847	
Gravesend West Street	0758	0842	1422	1442	1502	1522	1542	1618	1648	1718	1748	1818	1848	
Gravesend Clock Tower Harmer Street	0800	0843	1423	1443	1503	1523	1543	1620	1650	1720	1750	1820	1850	
Gravesend Clock Tower	0800	0844	1424	1444	1504	1524	1544	1620	1650	1720	1750	1820	1850	
Milton Albion Road	0801	0845	1425	1445	1505	1525	1545	1621	1651	1721	1751	1821	1851	
Milton Church Walk	0802	0846	1426	1446	1506	1526	1546	1622	1652	1722	1752	1822	1852	
Denton Milton Ale Shades	0803	0847	1427	1447	1507	1527	1547	1622	1652	1722	1752	1822	1852	
Denton Dickens Road	0804	0849	1429	1449	1509	1529	1549	1624	1654	1724	1754	1824	1854	
Denton Damigos Road	0806	0851	1431	1451	1511	1531	1551	--	--	--	--	--	--	
Chalk North Kent College	0807	0853	1433	1453	1513	1533	1553	1625	1655	1725	1755	1825	1855	
Chalk Osney Way	0808	0854	1434	1454	1514	1534	1554	1626	1656	1726	1756	1826	1856	
Chalk Vicarage Lane	0808	0854	1434	1454	1514	1534	1554	1626	1656	1726	1756	1826	1856	
Chalk Havisham Road	0808	0854	1434	1454	1514	1534	1554	1626	1656	1726	1756	1826	1856	
Chalk Road	0809	0855	1435	1455	1515	1535	1555	1627	1657	1727	1757	1827	1857	
Chalk Church	0809	0856	1436	1456	1516	1536	1556	1627	1657	1727	1757	1827	1857	
Shorne Gravesend Road	0810	0857	1437	1457	1517	1537	1557	1628	1658	1728	1758	1828	1858	
Shorne Fairways	0811	0857	1437	1457	1517	1537	1557	1629	1659	1729	1759	1829	1859	
Shorne Crossroads	0811	0858	1438	1458	1518	1538	1558	1629	1659	1729	1759	1829	1859	
Shorne The Copperfield	0812	0858	1438	1458	1518	1538	1558	1630	1700	1730	1800	1830	1900	
Higham The Manor House	0812	0859	1439	1459	1519	1539	1559	1630	1700	1730	1800	1830	1900	
Higham Hollytree Drive	0813	0900	1440	1500	1520	1540	1600	1631	1701	1731	1801	1831	1901	
Higham Forge Lane	0814	0901	1441	1501	1521	1541	1601	1632	1702	1732	1802	1832	1902	
Gadshill Copperfield Crescent	0814	0902	1442	1502	1522	1542	1602	1632	1702	1732	1802	1832	1902	
Frindsbury Dillywood Lane	0817	0905	1445	1505	1525	1545	1605	1635	1705	1735	1805	1835	1905	
Frindsbury Petrol Station	0819	0907	1447	1507	1527	1547	1607	1637	1707	1737	1807	1837	1907	
Frindsbury Gravesend Road	0820	0907	1447	1507	1527	1547	1607	1638	1708	1738	1808	1838	1908	
Frindsbury St Nicholas Gardens	0820	0908	1448	1508	1528	1548	1608	1638	1708	1738	1808	1838	1908	
Strood The Coach and Horses	0820	0908	1448	1508	1528	1548	1608	1638	1708	1738	1808	1838	1908	
Strood Downside	0821	0909	1449	1509	1529	1549	1609	1639	1709	1739	1809	1839	1909	
Strood High Street	0822	0910	1450	1510	1530	1550	1610	1640	1710	1740	1810	1840	1910	
Strood Canal Road	0824	0912	1452	1512	1532	1552	1612	1642	1712	1742	1812	1842	1912	
Rochester Guildhall Museum	0825	0913	1453	1513	1533	1553	1613	1643	1713	1743	1813	1843	1913	
Rochester Railway Station	0826	0914	1454	1514	1534	1554	1614	1644	1714	1744	1814	1844	1914	
Rochester Community Hub	0826	0914	1454	1514	1534	1554	1614	1644	1714	1744	1814	1844	1914	
Rochester Star Hill	0828	0916	1456	1516	1536	1556	1616	1646	1716	1746	1816	1846	1916	
Rochester Jacksons Fields	0829	0917	1457	1517	1537	1557	1617	1647	1717	1747	1817	1847	1917	
Chatham St Bart's Hospital	0830	0918	1458	1518	1538	1558	1618	1648	1718	1748	1818	1848	1918	
Chatham Railway Station New Cut	0833	0921	1501	1521	1541	1601	1621	1651	1721	1751	1821	1851	1921	
Chatham Waterfront Bus Station	0836	0924	1504	1524	1544	1604	1624	1654	1724	1754	1824	1854	1924	

Sunday - towards Gravesend Railway Station

	190 ¹	190 ¹	190 ¹	190 ¹	190 ¹	190 ¹	190 ¹	190 ¹	190 ¹
Chatham Waterfront Bus Station	0902	1002	1102	1202	1302	1402	1502	1602	1702
Chatham Railway Station	0905	1005	1105	1205	1305	1405	1505	1605	1705
Chatham St Bart's Hospital	0906	1006	1106	1206	1306	1406	1506	1606	1706
Rochester Jacksons Fields	0907	1007	1107	1207	1307	1407	1507	1607	1707
Rochester Star Hill	0908	1008	1108	1208	1308	1408	1508	1608	1708
Rochester Community Hub	0909	1009	1109	1209	1309	1409	1509	1609	1709
Rochester Railway Station	0910	1010	1110	1210	1310	1410	1510	1610	1710
Rochester Guildhall Museum	0911	1011	1111	1211	1311	1411	1511	1611	1711
Strood Canal Road	0914	1014	1114	1214	1314	1414	1514	1614	1714
Strood Commercial Road	0915	1015	1115	1215	1315	1415	1515	1615	1715
Strood Downside	0916	1016	1116	1216	1316	1416	1516	1616	1716
Strood The Coach and Horses	0917	1017	1117	1217	1317	1417	1517	1617	1717
Frindsbury St Nicholas Gardens	0918	1018	1118	1218	1318	1418	1518	1618	1718
Frindsbury Gravesend Road	0918	1018	1118	1218	1318	1418	1518	1618	1718
Frindsbury Petrol Station	0919	1019	1119	1219	1319	1419	1519	1619	1719
Frindsbury Dillywood Lane	0920	1020	1120	1220	1320	1420	1520	1620	1720
Gadshill Copperfield Crescent	0923	1023	1123	1223	1323	1423	1523	1623	1723
Higham Forge Lane	0925	1025	1125	1225	1325	1425	1525	1625	1725
Higham Pear Tree Lane	0925	1025	1125	1225	1325	1425	1525	1625	1725
Higham The Manor House	0926	1026	1126	1226	1326	1426	1526	1626	1726
Shorne The Copperfield	0926	1026	1126	1226	1326	1426	1526	1626	1726
Shorne Crossroads	0927	1027	1127	1227	1327	1427	1527	1627	1727
Shorne Fairways	0927	1027	1127	1227	1327	1427	1527	1627	1727
Shorne Gravesend Road	0928	1028	1128	1228	1328	1428	1528	1628	1728

	190 ¹	190 ¹	190 ¹	190 ¹	190 ¹	190 ¹	190 ¹	190 ¹	190 ¹
Chalk Church	0928	1028	1128	1228	1328	1428	1528	1628	1728
Chalk Havisham Road	0930	1030	1130	1230	1330	1430	1530	1630	1730
Chalk Vicarage Lane	0930	1030	1130	1230	1330	1430	1530	1630	1730
Chalk Osney Way	0931	1031	1131	1231	1331	1431	1531	1631	1731
Denton Lion Garage	0932	1032	1132	1232	1332	1432	1532	1632	1732
Denton Abbey Road	0933	1033	1133	1233	1333	1433	1533	1633	1733
Denton St John's School	0934	1034	1134	1234	1334	1434	1534	1634	1734
Milton Church Walk	0936	1036	1136	1236	1336	1436	1536	1636	1736
Milton Albion Road	0937	1037	1137	1237	1337	1437	1537	1637	1737
Gravesend Clock Tower	0938	1038	1138	1238	1338	1438	1538	1638	1738
Gravesend King Street	0939	1039	1139	1239	1339	1439	1539	1639	1739
Gravesend Railway Station	0941	1041	1141	1241	1341	1441	1541	1641	1741

¹ Only During Bank Holidays

Sunday - towards Chatham Waterfront Bus Station

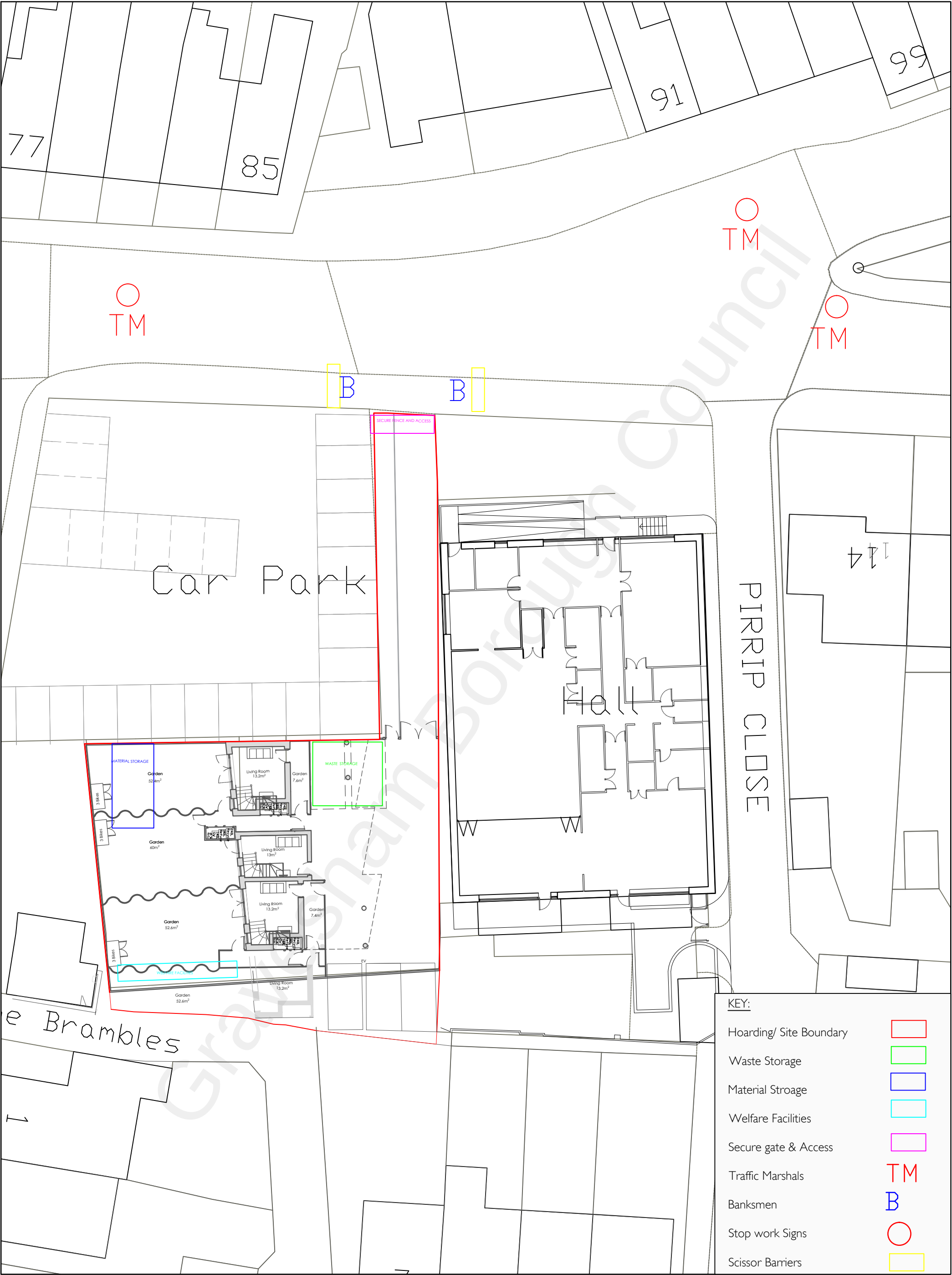
	190 ¹	190 ¹	190 ¹	190 ¹	190 ¹	190 ¹	190 ¹	190 ¹	190 ¹
Gravesend Railway Station	0946	1046	1146	1246	1346	1446	1546	1646	1746
Gravesend West Street	0948	1048	1148	1248	1348	1448	1548	1648	1748
Gravesend Clock Tower Harmer Street	0949	1049	1149	1249	1349	1449	1549	1649	1749
Gravesend Clock Tower	0949	1049	1149	1249	1349	1449	1549	1649	1749
Milton Albion Road	0950	1050	1150	1250	1350	1450	1550	1650	1750
Milton Church Walk	0951	1051	1151	1251	1351	1451	1551	1651	1751
Denton Milton Ale Shades	0952	1052	1152	1252	1352	1452	1552	1652	1752
Denton Dickens Road	0954	1054	1154	1254	1354	1454	1554	1654	1754
Chalk North Kent College	0954	1054	1154	1254	1354	1454	1554	1654	1754
Chalk Osney Way	0956	1056	1156	1256	1356	1456	1556	1656	1756
Chalk Vicarage Lane	0956	1056	1156	1256	1356	1456	1556	1656	1756
Chalk Havisham Road	0956	1056	1156	1256	1356	1456	1556	1656	1756
Chalk Road	0957	1057	1157	1257	1357	1457	1557	1657	1757
Chalk Church	0957	1057	1157	1257	1357	1457	1557	1657	1757
Shorne Gravesend Road	0958	1058	1158	1258	1358	1458	1558	1658	1758
Shorne Fairways	0959	1059	1159	1259	1359	1459	1559	1659	1759
Shorne Crossroads	0959	1059	1159	1259	1359	1459	1559	1659	1759
Shorne The Copperfield	1000	1100	1200	1300	1400	1500	1600	1700	1800
Higham The Manor House	1000	1100	1200	1300	1400	1500	1600	1700	1800
Higham Hollytree Drive	1001	1101	1201	1301	1401	1501	1601	1701	1801
Higham Forge Lane	1002	1102	1202	1302	1402	1502	1602	1702	1802
Gadshill Copperfield Crescent	1003	1103	1203	1303	1403	1503	1603	1703	1803
Frindsbury Dillywood Lane	1006	1106	1206	1306	1406	1506	1606	1706	1806
Frindsbury Petrol Station	1008	1108	1208	1308	1408	1508	1608	1708	1808
Frindsbury Gravesend Road	1008	1108	1208	1308	1408	1508	1608	1708	1808
Frindsbury St Nicholas Gardens	1009	1109	1209	1309	1409	1509	1609	1709	1809
Strood The Coach and Horses	1009	1109	1209	1309	1409	1509	1609	1709	1809
Strood Downside	1010	1110	1210	1310	1410	1510	1610	1710	1810
Strood High Street	1011	1111	1211	1311	1411	1511	1611	1711	1811
Strood Canal Road	1013	1113	1213	1313	1413	1513	1613	1713	1813
Rochester Guildhall Museum	1014	1114	1214	1314	1414	1514	1614	1714	1814
Rochester Railway Station	1015	1115	1215	1315	1415	1515	1615	1715	1815
Rochester Community Hub	1015	1115	1215	1315	1415	1515	1615	1715	1815
Rochester Star Hill	1017	1117	1217	1317	1417	1517	1617	1717	1817
Rochester Jacksons Fields	1017	1117	1217	1317	1417	1517	1617	1717	1817
Chatham St Bart's Hospital	1018	1118	1218	1318	1418	1518	1618	1718	1818
Chatham Railway Station New Cut	1020	1120	1220	1320	1420	1520	1620	1720	1820
Chatham Waterfront Bus Station	1022	1122	1222	1322	1422	1522	1622	1722	1822

¹ Only During Bank Holidays

APPENDIX C

Illustrative Demolition & Construction Site Plan

Gravesham Borough Council



KEY:	
Hoarding/ Site Boundary	
Waste Storage	
Material Storage	
Welfare Facilities	
Secure gate & Access	
Traffic Marshals	TM
Banksmen	B
Stop work Signs	
Scissor Barriers	