



Chancerygate Manchester Limited

# Crabtree Lane, Manchester

## Transport Statement

December 2023



Chancerygate Manchester Limited

# Crabtree Lane, Manchester

## Transport Statement

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## APPENDICES

APPENDIX A Pre-application Correspondence with MCC

APPENDIX B Proposed Site Layout

APPENDIX C Proposed Access Arrangement

APPENDIX D Swept Path Analysis

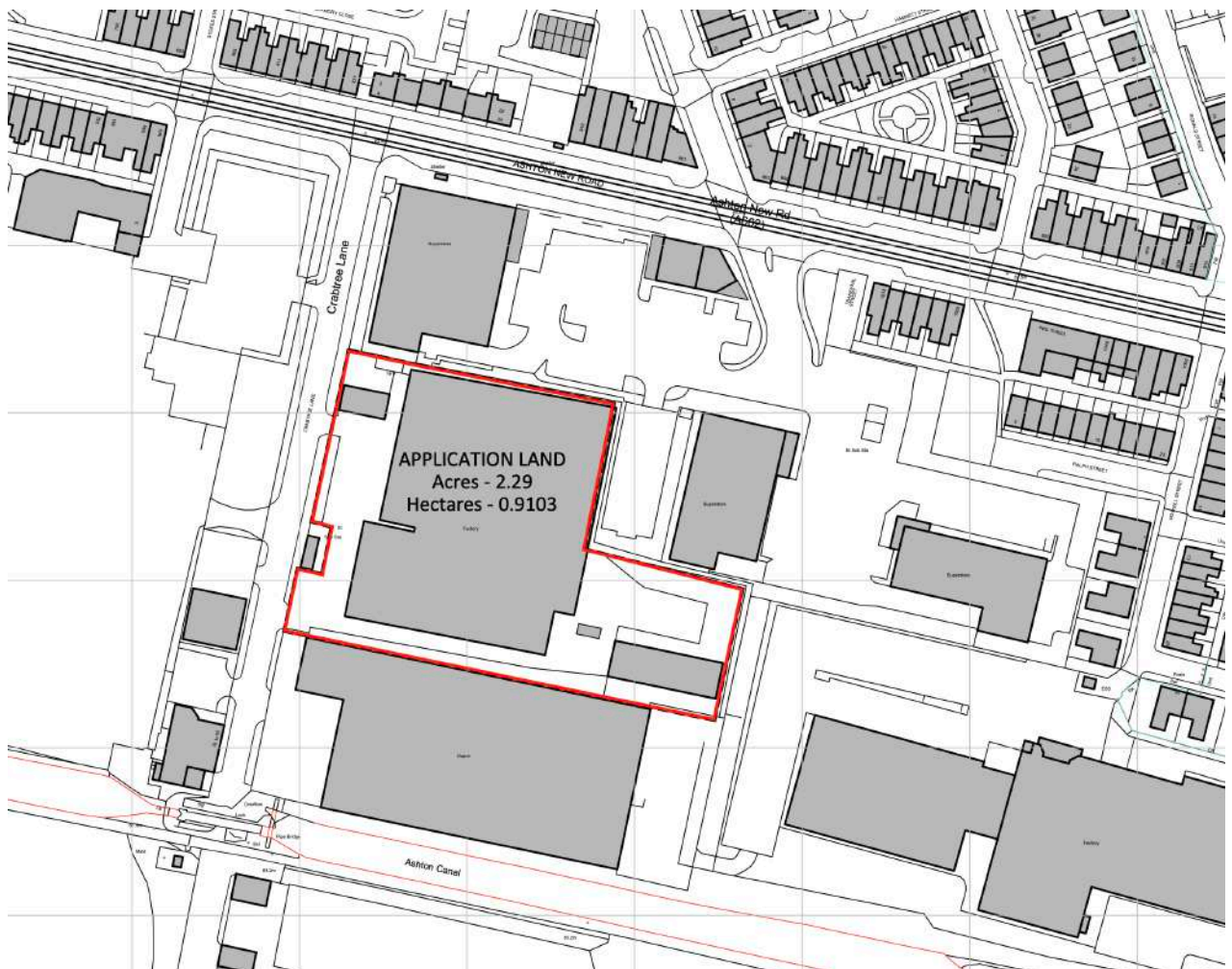
APPENDIX E Full TRICS Outputs

# 1. Introduction

## 1.1 Preamble

- 1.1.1 Mode Transport Planning ('Mode') has been appointed by Chancerygate Manchester Limited (the 'Applicant') to provide transport planning and highways advice in relation to a planning application for an industrial development on land off Crabtree Lane in Manchester.
- 1.1.2 The proposed scheme will comprise 9no. industrial units (Use Class E(g)(iii)/B2/B8) with a Gross Internal Floor Area (GIFA) of 5,124sqm, as well as on-site car parking provision, cycle parking and associated landscaping. Access to the site will be provided via a new priority access from Crabtree Lane.
- 1.1.3 The indicative site boundary is shown in [Figure 1.1](#).

**Figure 1.1 : Indicative Site Boundary** (source: UMC Architects)



- 1.1.4 This Transport Statement (TS) has been prepared to assess the development proposals, with consideration to vehicular and pedestrian access, expected trip generation and traffic impact, accessibility by sustainable modes of travel, parking provision and servicing arrangements.

## 1.2 Methodology

- 1.2.1 The methodology for the TS adopts the guidance set out within the Ministry of Housing, Communities & Local Government document, *'Transport Evidence Bases in Plan Making and Decision Taking'* (2014), which superseded the Department for Transport's (DfT) *'Guidance on Transport Assessment'* (2007). Whilst the 2014 guidance places a focus on agreeing a scope of works with the Local Highway Authority, the 2007 guidance remains instructive and has been used to inform the overall structure of the TS.
- 1.2.2 Pre-application advice was sought from the Local Highway Authority, Manchester City Council (MCC) Highways, which is attached in [Appendix A](#).

## 1.3 Report Structure

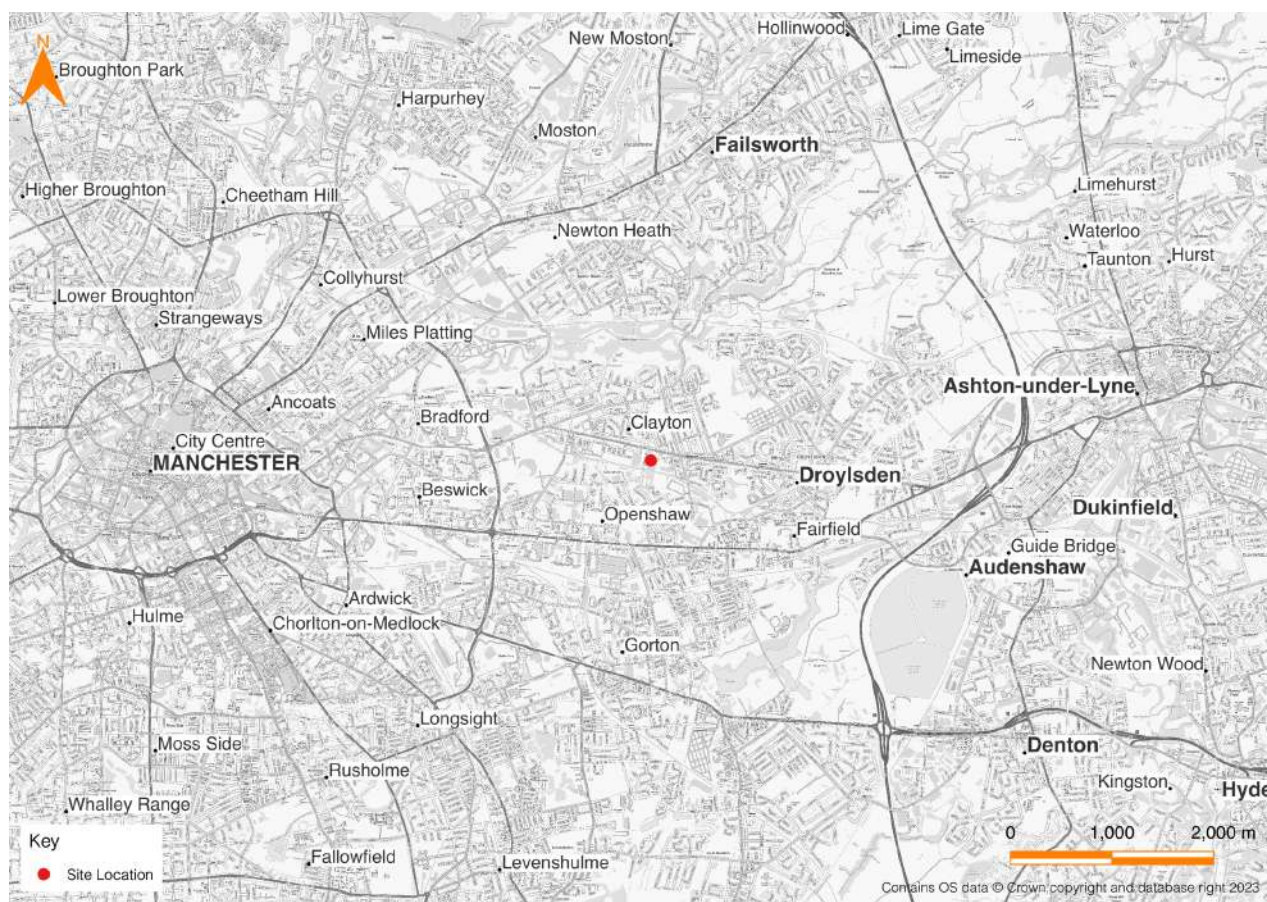
- 1.3.1 Following this introduction, this TS will be structured as follows:
- [Chapter 2](#) describes the site location, local highway network and collision data;
  - [Chapter 3](#) outlines the development proposals, vehicular access, servicing and parking;
  - [Chapter 4](#) details accessibility by non-car modes, including public transport, cycle and on foot;
  - [Chapter 5](#) details the expected trip generation;
  - [Chapter 6](#) provides evidence for the proposed parking provision; and
  - [Chapter 7](#) summarises and concludes the findings of the report.

## 2. Existing Conditions

### 2.1 Site Location and Existing Site

2.1.1 The site is located on the edge of the suburb of Clayton in Greater Manchester, c.1.5km west of Droylsden and c.4.5km east of Manchester City Centre as shown in [Figure 2.1](#).

**Figure 2.1 : Site Location Plan**



2.1.2 The development site currently consists of an unused warehouse which will be demolished as part of the proposals.

2.1.3 The existing development site is shown in [Photograph 2.1](#) and [Photograph 2.2](#).

Photograph 2.1 : Existing Development Site



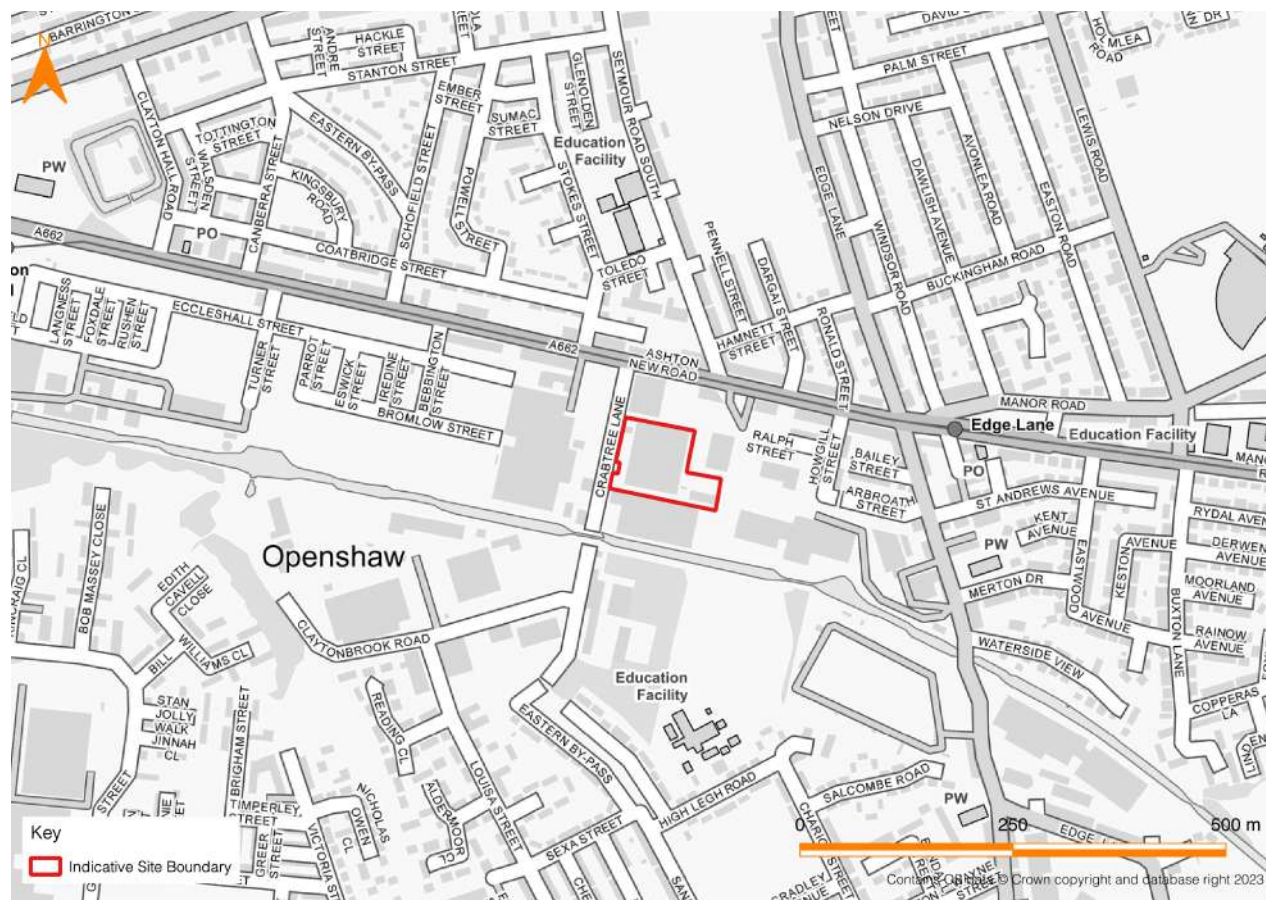
Photograph 2.2 : Existing Development Site Access



## 2.2 Local Highway Network

- 2.2.1 The site is bound by Crabtree Lane to the west, and existing commercial and industrial units to the north, east and south.
- 2.2.2 The location of the development site in the context of the local highway network is shown in [Figure 2.2](#).

Figure 2.2 : Local Highway Network



### Crabtree Lane

2.2.3 Access to the site will be taken from Crabtree Lane. The existing conditions along Crabtree Lane are detailed in Table 2.1 and shown in Photograph 2.3 to Photograph 2.5.

Table 2.1 : Crabtree Lane – Existing Conditions

|                     |                            |                            |                                                                   |
|---------------------|----------------------------|----------------------------|-------------------------------------------------------------------|
| Road Classification | Unclassified               | Footway Width              | c.2.5m                                                            |
| Road Type           | Two-way single carriageway | Pedestrian Facilities      | Dropped kerbs and tactile paving at junction with Ashton New Road |
| Speed Limit         | 20 mph                     | Cycle Facilities           | No                                                                |
| Carriageway Width   | c.7.8m                     | Public Transport Provision | No                                                                |
| Adoption Status     | Adopted                    | Streetlighting             | Yes                                                               |

Photograph 2.3 : Crabtree Lane – northbound



Photograph 2.4 : Crabtree Lane – southbound



Photograph 2.5 : Crabtree Lane – Speed Limit



Ashton New Road (A662)

- 2.2.4 In the vicinity of the site, Crabtree Lane is accessed via Ashton New Road. The Ashton New Road / Crabtree Lane priority junction is shown in [Photograph 2.6](#).

Photograph 2.6 : Ashton New Road / Crabtree Lane Priority Junction



- 2.2.5 The existing conditions along Ashton New Road are detailed in [Table 2.2](#) and shown in [Photograph 2.7](#) to [Photograph 2.10](#).

**Table 2.2 : Ashton New Road – Existing Conditions**

|                     |                            |                            |                                                              |
|---------------------|----------------------------|----------------------------|--------------------------------------------------------------|
| Road Classification | A-road (A662)              | Footway Width              | c.3.0 – 5.0m                                                 |
| Road Type           | Two-way single carriageway | Pedestrian Facilities      | Pelican crossing c.37m west of Crabtree Lane junction        |
| Speed Limit         | 30 mph                     | Cycle Facilities           | On-road traffic free routes on both sides of the carriageway |
| Carriageway Width   | c.9.3m                     | Public Transport Provision | Yes                                                          |
| Adoption Status     | Adopted                    | Streetlighting             | Yes                                                          |

2.2.6 As shown in **Photograph 2.7** to **Photograph 2.10**, Ashton New Road features on-road tram tracks in both directions that form part of Greater Manchester's Metrolink network.

**Photograph 2.7 : Ashton New Road – eastbound**



Photograph 2.8 : Ashton New Road – westbound



Photograph 2.9 : Ashton New Road – Pelican crossing



Photograph 2.10 : Ashton New Road – On-road Cycle Routes



## 2.3 Road Safety

- 2.3.1 Personal Injury Collision (PIC) data in vicinity of the development site has been obtained from the CrashMap database ([crashmap.co.uk](https://crashmap.co.uk)) for the most recently available five-year period between 2018 and 2022.
- 2.3.2 **Figure 2.3** shows the extent of the study area and **Table 2.3** provides a summary of the PICs recorded.
- 2.3.3 As shown in **Figure 3.3**, 3no. PICs, all 'slight' in severity, were recorded within the study area between 2018 and 2022. No recorded PICs involved an HGV.
- 2.3.4 Only 1no. PIC was recorded at the Ashton New Road / Crabtree Lane priority junction, which occurred between a motorcycle and a car.
- 2.3.5 Due to the frequency and severity of PICs recorded within the study area, there is no evidence to suggest that the highway layout, design or condition are significant factors in PIC records on the local highway network. Furthermore, there is no evidence to suggest that proposed development would have a detrimental impact on highway safety.

**Figure 2.3 : Personal Injury Collisions Map** (source: CrashMap)

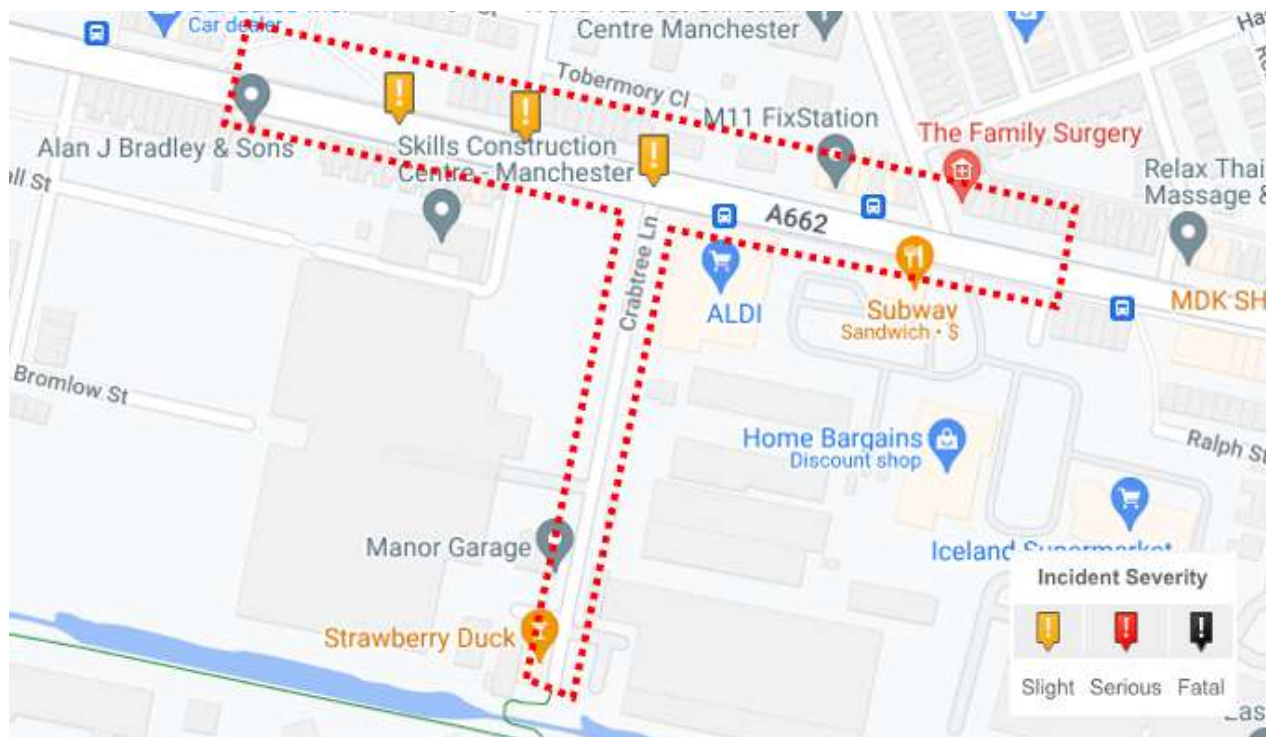


**Table 2.3 : Road Safety Data Analysis**

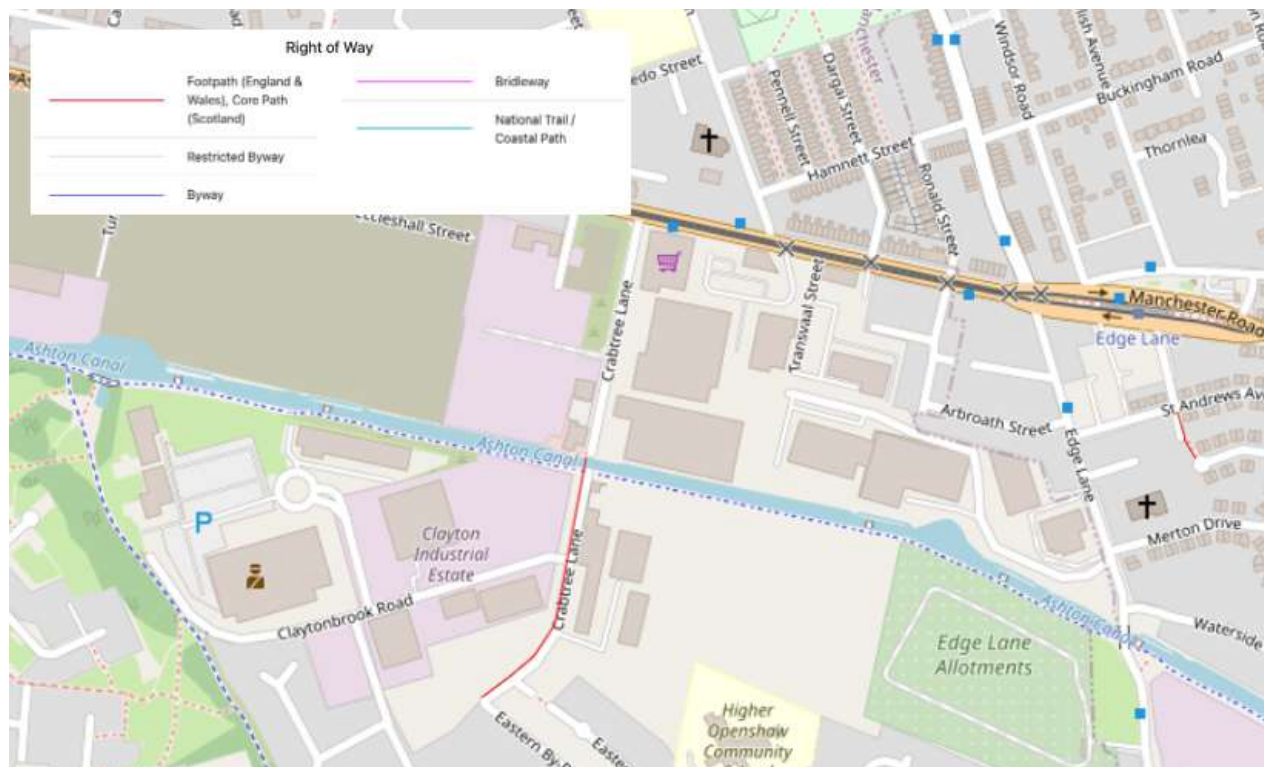
| Date | Location                        | Severity | Vehicles Involved                                                                             |
|------|---------------------------------|----------|-----------------------------------------------------------------------------------------------|
| 2018 | Ashton New Road / Crabtree Lane | Slight   | Motorcycle proceeding along the carriageway colliding with a car in the act of turning right. |
| 2020 | Ashton New Road                 | Slight   | LGV proceeding along the carriageway colliding with a car in the act of turning right.        |
| 2022 | Ashton New Road                 | Slight   | Car in the act of slowing down / stopping colliding with an LGV held up in the carriageway.   |

## 2.4 Public Rights of Way

2.4.1 There are no Public Rights of Way (PROWs) within or along the site boundary.

2.4.2 A footpath is available along the southern section of Crabtree Lane aiding pedestrian movement from Crabtree Lane adjacent to the site, to Eastern By-Pass and the residential area of Clayton to the south, as shown in [Figure 2.4](#).

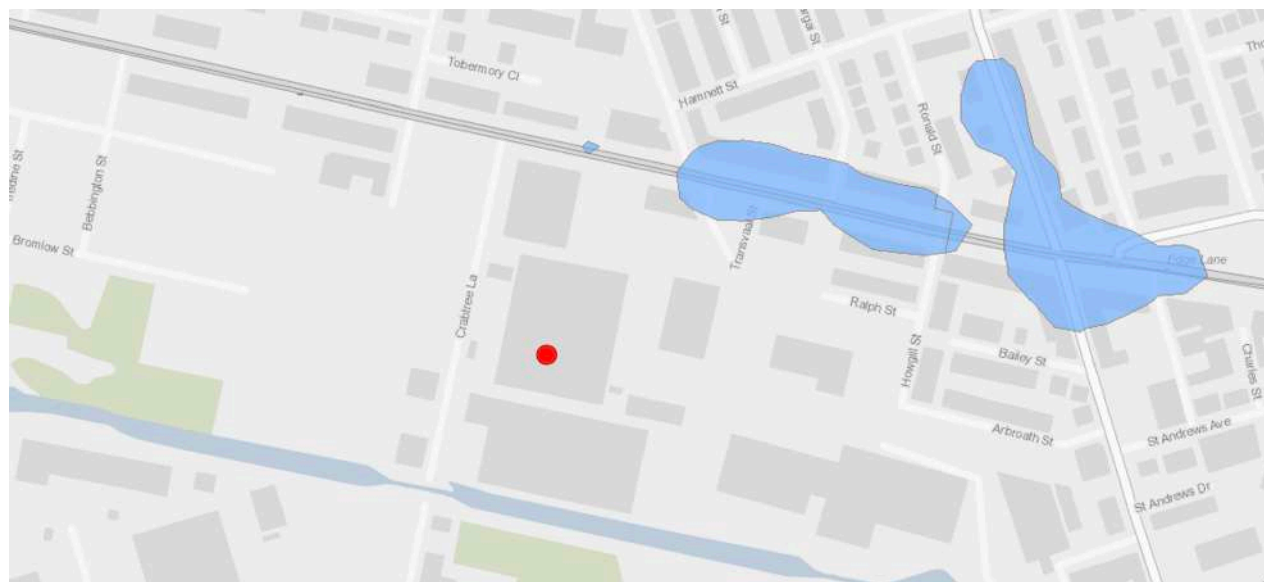
**Figure 2.4 : Public Right of Way Map** (source: FootpathMap.co.uk)



## 2.5 Air Quality

- 2.5.1 According to the Department for Environment, Food and Rural Affairs (DEFRA), the development site is not located in an Air Quality Management Area (AQMA).
- 2.5.2 Sections of Ashton New Road and Edge Lane within the vicinity of the site are within AQMAs, as shown in Figure 2.5.

**Figure 2.5 : Air Quality Management Area Map** (source: DEFRA)



## 3. Development Proposals

### 3.1 Proposed Use

3.1.1 The proposed scheme will comprise 9no. industrial units (Use Class E(g)(iii)/B2/B8) with a total GIFA of 5,124sqm, with associated on-site car parking, cycle parking, servicing areas and landscaping.

3.1.2 The proposed site layout is shown in [Figure 3.1](#) and is attached in [Appendix B](#).

**Figure 3.1 : Proposed Site Layout** (source: UMC Architects)



3.1.3 The quantum of development is shown in [Table 3.1](#).

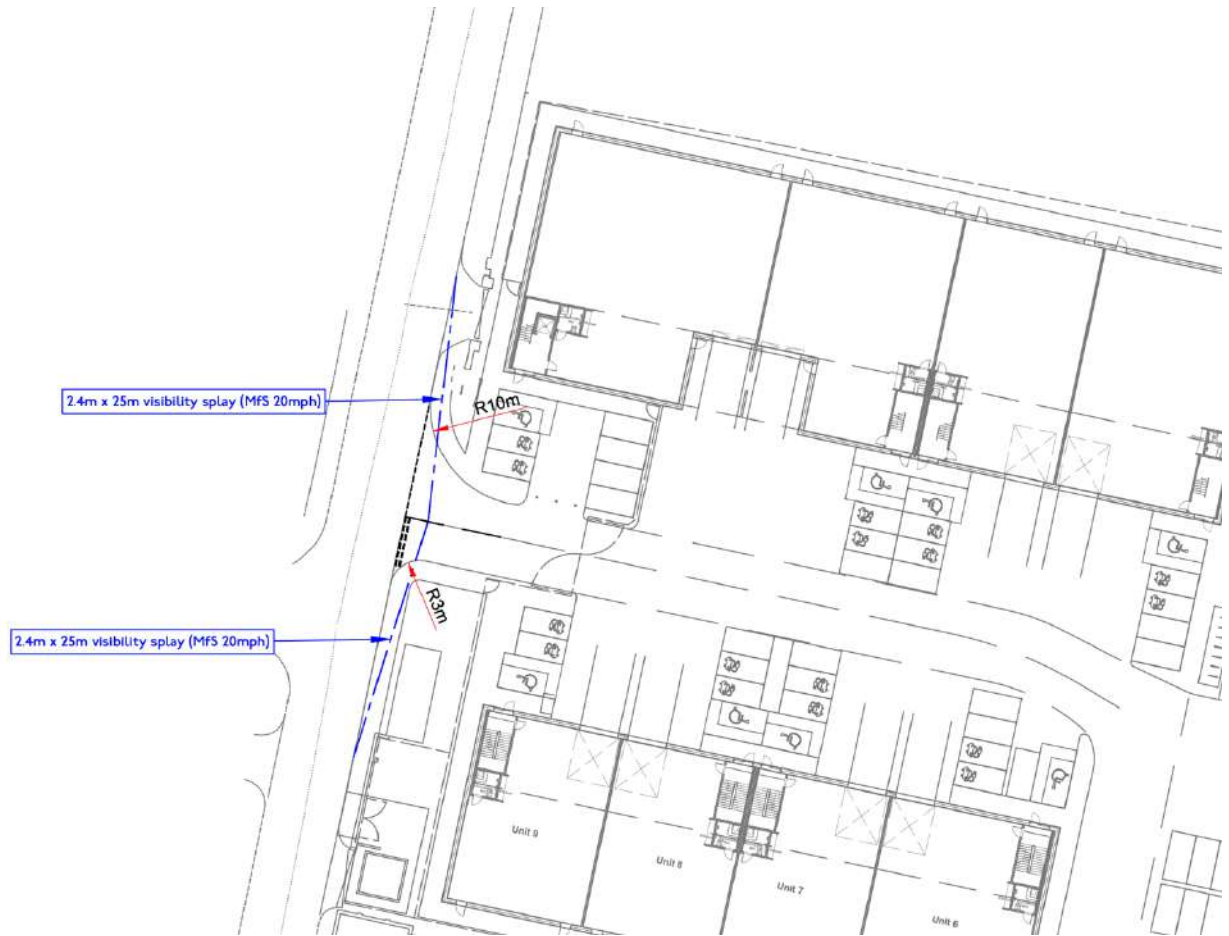
**Table 3.1 : Proposed Unit Areas**

| Unit | GIA         | Unit  | GIA         |
|------|-------------|-------|-------------|
| 1    | 758.6 sqm   | 6     | 454.0 sqm   |
| 2    | 566.5 sqm   | 7     | 372.0 sqm   |
| 3    | 455.0 sqm   | 8     | 372.0 sqm   |
| 4    | 535.0 sqm   | 9     | 375.0 sqm   |
| 5    | 1,236.0 sqm | Total | 5,124.1 sqm |

## 3.2 Proposed Access Arrangement

- 3.2.1 Access to the site will be taken via a new priority junction from Crabtree Lane.
- 3.2.2 The proposed access will comprise a 7.3m wide carriageway with a 10m kerb radii to the north and a 3m kerb radii to the south. 2m wide footways will also be provided on both sides from Crabtree Lane that will connect with the existing footway network.
- 3.2.3 The proposed use of an unsymmetrical junction has been agreed with MCC. HGV movements will not take place to the south due to the cul-de-sac nature of the road so a reduced radius can be provided on the southern side of the junction to reduce the crossing distance for pedestrians.
- 3.2.4 To the south of the proposed access there is a proposed dropped vehicle crossover for maintenance access to the substation. Existing accesses will be reinstated to footway where necessary.
- 3.2.5 The proposals include a gated access to ensure that the site can be secured when required. The proposed gate is set back within the site to ensure a HGV can fully exit Crabtree Lane and wait off the highway, should the gate be closed.
- 3.2.6 The proposed site access arrangement is shown in [Figure 3.2](#), with the full site access drawing ([Drawing J32-7475-002](#)) attached in [Appendix C](#).
- 3.2.7 Visibility splays of 2.4m x 25m are achievable in both directions along Crabtree Lane in accordance with Manual for Streets (MfS) Sight Stopping Distances.

Figure 3.2 : Proposed Site Access Junction



### 3.3 Servicing and Delivery Arrangements

- 3.3.1 Swept path analysis has been undertaken at the access and at units 1, 2 and 6 for a 16.5m articulated HGV, which is the largest vehicle expected to access these units. The swept path analysis for a 16.5m HGV is shown in [Figure 3.3](#), and the full drawing (**Drawing J32-7475-003**) is attached in [Appendix D](#).
- 3.3.2 For the remaining units, swept path analysis has been undertaken for a 10m rigid HGV. Swept path analysis has also been undertaken for an 11.2m refuse collection vehicle. The swept path analysis for both of these vehicles is provided in **Drawings J32-7475-004/005** attached in [Appendix D](#).
- 3.3.3 The analysis shows that all vehicle types can enter and exit via the site access in a forward gear and manoeuvre safely within the proposed servicing areas.

Figure 3.3 : Swept Path Analysis – 16.5m Articulated HGV



3.3.4 Crabtree Lane will be accessed by HGVs via the priority junction with Ashton New Road. During pre-application discussions ([Appendix A](#)), MCC Highways have agreed that this junction is suitable to serve the proposed development, based on the low HGV trip generation expected and the existing road safety data. MCC understand that this junction is currently used by HGVs at the existing industrial units on Crabtree Lane and any further HGV trips would be self-managed.

### 3.4 Parking Provision

- 3.4.1 In total, 58no. car parking spaces will be provided at the site, inclusive of 9no. accessible spaces all located near the unit entrances. Secure parking for up to 32no. cycles is also proposed.
- 3.4.2 MCC outline their parking standards in the '*Manchester Core Strategy 2012 to 2027*' adopted in July 2012. Parking standards for B2 and B8 uses not in the city / district centres are shown in [Table 3.2](#).

**Table 3.2 : MCC Parking Standards – Outside of City / District centre**

| Land Use                      | Car Parking       | Disabled Parking                                                                                      | Cycle Parking                           |
|-------------------------------|-------------------|-------------------------------------------------------------------------------------------------------|-----------------------------------------|
| B2 - General Industry         | 1 space / 45 sqm  | Individual bays for each disabled employee plus 2 bays or 5% of total capacity (whichever is greater) | 1 space / 450 sqm (minimum of 2 spaces) |
| B8 - Storage and Distribution | 1 space / 100 sqm | Individual bays for each disabled employee plus 2 bays or 5% of total capacity (whichever is greater) | 1 space / 850 sqm (minimum of 2 spaces) |

#### Car Parking

- 3.4.3 Based on MCC's parking standards in [Table 3.2](#), the proposed parking provision at the site falls between the B2 and B8 standards, providing 1 space per c.88sqm.
- 3.4.4 To provide further evidence that the proposed parking provision is suitable for the proposed development, a car parking accumulation assessment has been undertaken and is outlined in [Chapter 6](#).
- 3.4.5 9no. accessible parking bays will be provided across the site, which equates to c.18% provision and exceeds MCC's minimum standard.
- 3.4.6 18no. Electric Vehicle Charging Point (EVCP) spaces are also proposed (2no. per unit), which equates to 31% provision. The remaining spaces will be cable-enabled to ensure 100% EVCP provision is achievable in the future.
- 3.4.7 A car sharing scheme will be implemented at the site and dedicated car sharing spaces will be provided (5% of total provision).

#### Cycle Parking

- 3.4.8 A cycle shelter providing secure parking for up to 14no. cycles is located to the east of the parking provision at Unit 4. Each unit will also provide 2no. internal cycle spaces; (18no. in total), therefore providing a total of 32no. secure cycle spaces at the site.
- 3.4.9 Cycle parking is provided far in excess of MCC's cycle parking standards for B2 and B8 uses as shown in [Table 3.2](#).

## 4. Sustainable Accessibility and Active Travel

### 4.1 Introduction

- 4.1.1 Current Government policy and guidance places significant emphasis on the promotion of sustainable transport modes for all new developments. This forms part of a long-term strategy to reduce the reliance on private car trips.
- 4.1.2 The National Planning Policy Framework (NPPF) sets out the Government's planning policies for England and outlines the important role that transport policies play in facilitating sustainable development.
- 4.1.3 Paragraph 105 states that *"significant development should be focused on locations which are or can be made sustainable, through limiting the need to travel and offering a genuine choice of transport modes. This can help to reduce congestion and emissions and improve air quality and public health. However, opportunities to maximise sustainable transport solutions will vary between urban and rural areas, and this should be taken into account in both plan-making and decision-making"*.
- 4.1.4 This chapter considers accessibility via sustainable modes of transport to the proposed development site, including access by public transport, cycle and on foot.

### 4.2 Pedestrian Accessibility

- 4.2.1 Guideline walking distances provided in the Chartered Institution of Highways and Transportation (CIHT) document *'Guidelines for Providing for Journeys on Foot (2000)'* are shown in [Table 4.1](#).

**Table 4.1 : CIHT Guideline Acceptable Walking Distances**

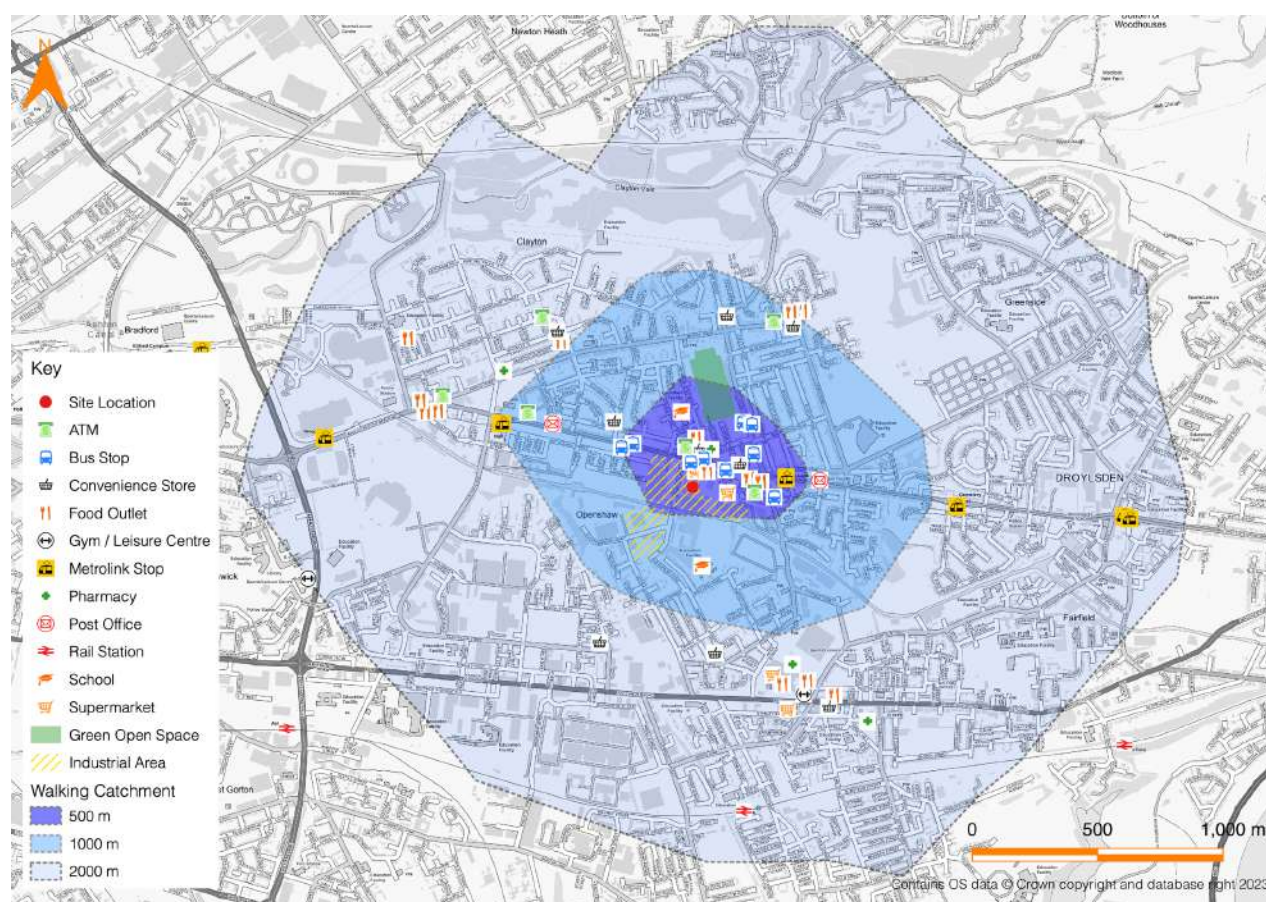
| Criteria          | Town Centre | Commuting/Sight Seeing | Elsewhere |
|-------------------|-------------|------------------------|-----------|
| Desirable         | 200m        | 500m                   | 400m      |
| Acceptable        | 400m        | 1,000m                 | 800m      |
| Preferred Maximum | 800m        | 2,000m                 | 1,200m    |

- 4.2.2 The CIHT guidelines shown in [Table 4.1](#) suggest that, for commuting purposes, up to 500m is a desirable walking distance, up to 1,000m is considered an acceptable walking distance and 2,000m is the preferred maximum walking distance.

4.2.3 Appropriate walking distances are dependent upon the location of the specific development; in more remote locations, people will be more likely to be prepared to walk further to their end destination. Similarly, appropriate walking distances are also dependent upon the standard of existing pedestrian infrastructure provision, with further walking distances achievable in locations with extensive and high-quality pedestrian footways, crossings and pedestrianised areas.

4.2.4 **Figure 4.1** presents the local amenities accessible within the 500m, 1,000m and 2,000m walking catchments from the site, as specified in CIHT guidance for commuting purposes.

**Figure 4.1 : Walking Catchment with Local Amenities**



4.2.5 As shown in **Figure 4.1**, the site is located in an area which comprises existing industrial and commercial land uses.

4.2.6 **Table 4.2** provides an indication of the distances and approximate walking times to a selection of local amenities. The distances have been measured from the access to the site; the times are based on an average walking speed of 1.4 metres per second and do not allow for waiting time to cross junctions. All distances were measured from the centre of the site.

**Table 4.2 : Local Amenities – Distances and Walking Times**

| Amenity                                        | Distance | Average Walking Time |
|------------------------------------------------|----------|----------------------|
| Bus Stops on Ashton New Road                   | 180m     | 2 minutes            |
| Best One Convenience Store with ATM*           | 190m     | 2 minutes            |
| Cohen's Pharmacy*                              | 270m     | 3 minutes            |
| Subway Sandwich Shop*                          | 300m     | 4 minutes            |
| Seymour Road Academy*                          | 350m     | 4 minutes            |
| Hewlett Johnson Playing Fields*                | 400m     | 5 minutes            |
| Edge Lane Post Office                          | 550m     | 7 minutes            |
| Edge Lane Metrolink Stop                       | 550m     | 7 minutes            |
| Gorton Rail Station                            | 1.6km    | 19 minutes           |
| Droylsden Town Centre                          | 1.8km    | 21 minutes           |
| <i>*BREEAM compliant amenities within 500m</i> |          |                      |

- 4.2.7 As shown in [Figure 4.2](#) and [Table 4.2](#), the walking catchment provides access to a range of public transport connections, including bus stops within c.180m (2-minute walk) and Edge Lane Metrolink stop within c.550m (7-minute walk) both on Ashton New Road.
- 4.2.8 A range of amenities are available within a 500m walking catchment that are BREEAM-compliant for this land use, including a Subway sandwich shop, Cohen's Pharmacy, Hewlett Johnson Playing fields and a Best One convenience store with an ATM. Edge Lane Office is also located just beyond the 500m walking catchment.
- 4.2.9 Within a 2,000m walking catchment, Gorton Rail Station is accessible within c.1.6km (19-minute walk) to the south of the site. Further amenities are also accessible c.1.8km (21-minutes) east in Droylsden Town Centre.
- 4.2.10 The development is connected to local amenities via a network of good quality footways with dropped kerbs, signalised crossing points and good quality surfaces. This provides sufficient access to all uses, including those with various forms of disability and the visually impaired. It has therefore been demonstrated that the site is well-placed in terms of pedestrian connectivity, with walking representing a realistic alternative to car trips.

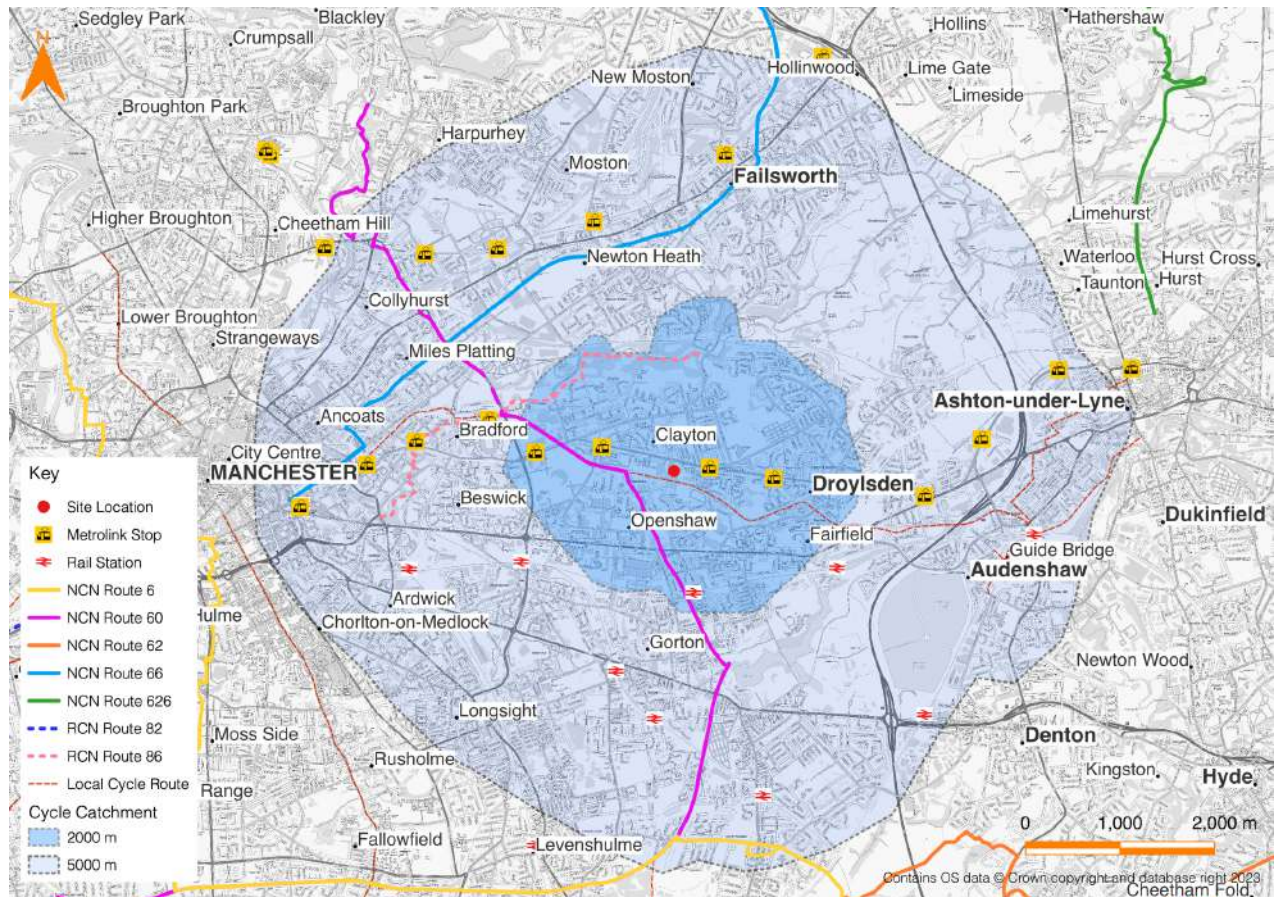
## 4.3 Cycle Accessibility

- 4.3.1 As with pedestrian accessibility, the level of a site's cycle accessibility depends upon a combination of the distance from local amenities and the standard of existing cycle infrastructure. It should, however, be noted that that cycle infrastructure can include facilities shared with vehicles and pedestrians as well as dedicated cycle infrastructure.

4.3.2 In respect of acceptable cycle distances, 'Local Transport Note 1/20: Cycle Infrastructure Design', published by DfT, states that *'two out of every three personal trips are less than five miles in length - which is an achievable distance to cycle for most people'*.

4.3.3 Figure 4.2 presents the cycling catchment area around the proposed development site for 2km and 5km.

Figure 4.2 : Cycling Catchment Area



4.3.4 As shown in Figure 4.2, multiple routes on the National Cycle Network (NCN) are available within the cycle catchment. NCN Route 60 runs c.500m from the site, accessed via the Ashton Canal towpath. The route is located alongside the Ashton Canal connecting Collyhurst to the north with Gorton to the south, and onto the Fallowfield Loop around south Manchester.

4.3.5 These routes are further supplemented by a network of local cycle routes as shown in Figure 4.3.

Figure 4.3 : Local Cycle Network (source: TfGM)



- 4.3.6 As shown in Figure 4.3, and discussed in Chapter 2, on-road cycle routes and Pelican crossings are available along Ashton New Road in the vicinity of the site. Cycle access points are also available on the south of Crabtree Lane, allowing cycle access from a traffic-free cycle route to the south.
- 4.3.7 In consideration of the cycle network within the vicinity of the development site that includes national and local routes, cycling is a realistic method of travel for future users, particularly as an alternative to private car trips or as part of a multi-modal journey.

## 4.4 Public Transport

- 4.4.1 A map of the local bus and Metrolink services in the vicinity of the site is shown in Figure 4.4.

### Local Bus Services

- 4.4.2 As shown in Figure 4.1, the closest bus stops to the site are located on Ashton New Road within c.180m (2-minute walk) of the site via Crabtree Lane.
- 4.4.3 Additional services are also available from stops on Edge Lane within c.400m (5-minute walk) to the east of the site, as well on Ashton New Road to the west of Schofield Road within c.650m (8-minute walk).
- 4.4.4 Table 4.3 provides a summary of routes and times of local public bus services accessible from Ashton New Road and Edge Lane.

Figure 4.4 : Public Transport Map (source: TfGM)



Table 4.3 : Local Public Bus Services – Ashton New Road and Edge Lane

| Service No. | Route                                                                      | Approx. Two-Way Frequency (buses / hour) |          |    |     |            |
|-------------|----------------------------------------------------------------------------|------------------------------------------|----------|----|-----|------------|
|             |                                                                            | AM                                       | Off-Peak | PM | Sat | Sun        |
| 171         | Newton Heath - Didsbury                                                    | 1                                        | 1        | 1  | 1   | No Service |
| 172         | Newton Heath - Didsbury                                                    | 1                                        | 1        | 1  | 1   | 1          |
| 216         | Ashton-under-Lyne – Manchester City Centre                                 | 6                                        | 6        | 6  | 4   | 3          |
| 230 / 231   | Ashton-under-Lyne – Manchester City Centre (via Tameside General Hospital) | 4                                        | 2        | 2  | 2   | 2          |
| 688         | Gorton Education Village Service                                           | <1                                       | 0        | <1 | 0   | 0          |
| 703 / 704   | Wright Robinson Sports College Service                                     | <1                                       | 0        | <1 | 0   | 0          |

4.4.5 As shown in Table 4.3, frequent bus services are available from Ashton New Road between Ashton-under-Lyne and Manchester Centre.

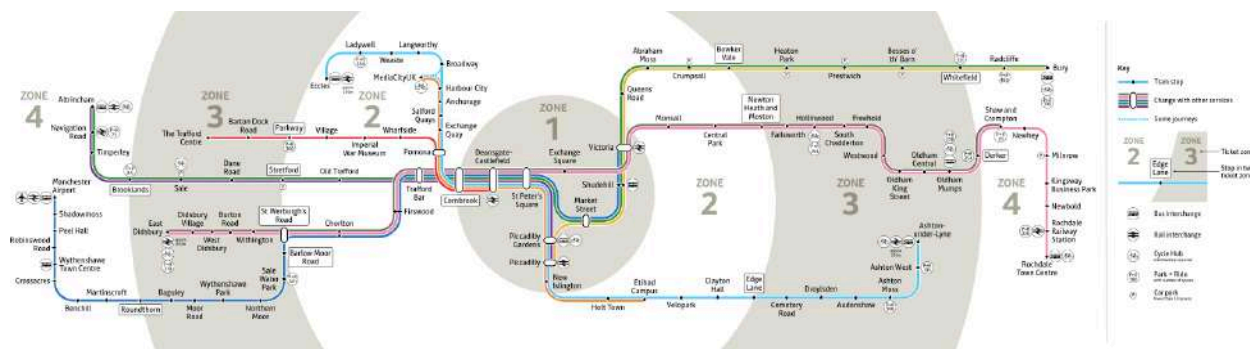
4.4.6 The frequency of these services throughout the week and on weekends demonstrates that bus travel is a realistic method of travel for future employees and visitors, particularly as an alternative to private car trips for commuting.

## Metrolink Services

4.4.7 The closest tram stop to the site is Edge Lane c.550m (7-minute walk) east of the development site on Ashton New Road.

4.4.8 Figure 4.5 shows a map of the Transport for Manchester (TfGM) Metrolink network.

**Figure 4.5 : Metrolink Network Map (source: TfGM)**



4.4.9 As shown in Figure 4.5, Edge Lane is a stop on Eccles – Ashton-under-Lyne (light blue) line, which passes through St Peters Square and Piccadilly Station in Manchester City Centre, as well as local destinations including Audenshaw and the Etihad Campus. Services are available in each direction up to every c.12-minutes.

4.4.10 The site is therefore accessible via the TfGM Metrolink network and provides access to multiple residential areas across Greater Manchester, as well as to other key leisure areas and transport links across Manchester City Centre.

## Rail Services

4.4.11 The closest rail station to the site is Gorton Station c.1.6km south of the site, which is accessible within a 20-minute walk.

4.4.12 Gorton Station features accessible ticket machines and offers step-free access.

4.4.13 Table 4.4 summarises the direct rail services available from Gorton Station.

**Table 4.4 : Direct Rail Services – Gorton Station**

| Destination                       | Approx. Frequency      | Approx. Journey Time |
|-----------------------------------|------------------------|----------------------|
| Manchester Piccadilly             | 1 to 2 services / hour | 10 minutes           |
| Rose Hill Marple via Hyde Central | 1 to 2 services / hour | 25 minutes           |

4.4.14 Table 4.4 shows that 2no. regular direct services are available to Manchester Piccadilly and Rose Hill Marple, accessing local destinations along these routes.

4.4.15 Based on the frequency of services available at Groton Station, rail could be considered as an alternative to private car trips for commuting or accessing amenities, particularly as part of a multi modal journey.

## 4.5 Promoting Sustainable Travel via Travel Plans

4.5.1 It should be noted that this TS has been produced in parallel with a Framework Travel Plan (FTP) report, which outlines initial strategies and measures for encouraging employees and visitors to travel by sustainable modes, rather than single occupancy car trips.

## 4.6 Summary

4.6.1 In summary, it has been shown that the site is highly accessible via sustainable modes of travel, including walking, cycling and public transport - thereby offering a realistic and convenient alternative to single occupancy car trips. This includes the following:

- Existing footways are available on the local highway network providing safe walking routes to local amenities and public transport provision;
- A network of local cycle routes and destinations are available from the site within the cycle catchment;
- Regular public bus services are available within a short walk on Ashton New Road, providing services between Ashton-under-Lyne and Manchester Centre;
- Regular Metrolink services are available from Edge Lane on Eccles – Ashton-under-Lyne line, which provides stops in Manchester City Centre; and
- Gorton Rail Station is located within the walking catchment of the site, providing services to Manchester Piccadilly and Rose Hill Marple, accessing local destinations along these routes.

4.6.2 Overall, the development site benefits from accessibility via a range of sustainable modes of travel, including walking routes, cycle routes and public transport services, which collectively offer an alternative to private car trips.

4.6.3 The site is therefore compliant with the NPPF which states in paragraph 110 that: *'in assessing sites that may be allocated for development in plans, or specific application 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'*.

4.6.4 Furthermore, the proposals accord with paragraph 112 of the NPPF which states that: *'applications for development should: a) give priority first to pedestrian and cycle movements, both within the scheme and with neighbouring areas; and second – so far as possible – to facilitating access to high quality public transport, with layouts that maximise the catchment area for bus or other public transport services, and appropriate facilities that encourage public transport use'*.

## 5. Trip Generation

### 5.1 TRICS Trip Rates

- 5.1.1 In order to assess the expected traffic impact of the proposed development, a trip generation exercise has been undertaken for the proposed industrial units based on a proposed total floor area of 5,128sqm.
- 5.1.2 Vehicle trip rates have been derived from the TRICS database (v7.10.2) using the 'Employment – Industrial Estate' land use category.
- 5.1.3 In line with the 'TRICS Good Practice Guide 2021', no surveys were excluded on the basis of geographical region, with the exception of surveys in Greater London, in line with recent consultation responses from MCC Highways. The study undertaken by TRICS revealed that there is a significantly higher correlation between location type and trip rates than there is between region and trip rates.
- 5.1.4 The guidance therefore recommends that regional selection should not be a major consideration when applying trip rate calculation filtering criteria, as location type was found to be the most influential factor in terms of trip generation. Therefore, the 'Suburban Area' and 'Edge of Town' locations were selected.
- 5.1.5 Full TRICS Outputs are attached in [Appendix E](#).

### 5.2 Trip Generation

#### All Vehicles

- 5.2.1 The TRICS trip rates and resulting trips during the AM peak and PM peak are summarised in [Table 5.1](#).

**Table 5.1 : Trip Generation – TRICS All Vehicle Trip Rates per 100sqm**

| TRICS Land Use Category                           | AM Peak Hour (08:00 - 09:00) |        |              | PM Peak Hour (16:00 -17:00) |        |              |
|---------------------------------------------------|------------------------------|--------|--------------|-----------------------------|--------|--------------|
|                                                   | Arrive                       | Depart | Total        | Arrive                      | Depart | Total        |
| Employment – Industrial Estate – TRICS Trip Rate  | 0.525                        | 0.24   | <b>0.765</b> | 0.305                       | 0.472  | <b>0.777</b> |
| Employment – Industrial Estate – Trips (5,128sqm) | 27                           | 12     | <b>39</b>    | 16                          | 24     | <b>40</b>    |

- 5.2.2 As shown in [Table 5.1](#), the proposed development will generate **39** two-way trips during the AM peak hour and **40** two-way trips during the PM peak hour.

## HGVs

- 5.2.3 Given the proposed development comprises B2 / B8 land uses, it is expected to generate Heavy Goods Vehicle (HGV) movements. The HGV TRICS trip rates and resulting trips during the AM peak and PM peak are summarised in [Table 5.2](#).

**Table 5.2 : Trip Generation – TRICS HGV Trip Rates per 100sqm**

| TRICS Land Use Category                               | AM Peak Hour (08:00 - 09:00) |        | PM Peak Hour (16:00 -17:00) |        |        |              |
|-------------------------------------------------------|------------------------------|--------|-----------------------------|--------|--------|--------------|
|                                                       | Arrive                       | Depart | Arrive                      | Depart | Arrive | Depart       |
| Employment – Industrial Estate – HGV Trip Rates       | 0.032                        | 0.025  | <b>0.057</b>                | 0.018  | 0.02   | <b>0.038</b> |
| Employment – Industrial Estate – HGV Trips (5,128sqm) | 2                            | 1      | <b>3</b>                    | 1      | 1      | <b>2</b>     |

- 5.2.4 As shown in [Table 5.2](#), the proposed development will generate **3** two-way HGV trips during the AM peak hour and **2** two-way HGV trips during the PM peak hour.

## Cars / LGVs

- 5.2.5 To estimate the number of trips undertaken by cars / vans, the HGV trips shown in [Table 5.2](#) were subtracted from the all-vehicle trips shown in [Table 5.1](#).

## Trip Rates by Vehicle

- 5.2.6 The resultant AM and PM peak hour trips for cars / vans and HGVs separately are shown in [Table 5.3](#).

**Table 5.3 : Trip Generation – Car / Van and HGV Trips**

| TRICS Land Use Category | AM Peak Hour (08:00 - 09:00) |        |           | PM Peak Hour (16:00 -17:00) |        |           |
|-------------------------|------------------------------|--------|-----------|-----------------------------|--------|-----------|
|                         | Arrive                       | Depart | Total     | Arrive                      | Depart | Total     |
| Car / LGV Trips         | 25                           | 11     | <b>36</b> | 15                          | 23     | <b>38</b> |
| HGV Trips               | 2                            | 1      | <b>3</b>  | 1                           | 1      | <b>2</b>  |
| All Vehicles            | 27                           | 12     | <b>39</b> | 16                          | 24     | <b>40</b> |

- 5.2.7 The analysis demonstrates that the proposed development is expected to generate less than 1no. trip a minute in the AM and PM peaks.
- 5.2.8 The trip generation exercise has made no allowance for existing permitted trips to the site and is therefore considered to be a robust assessment.

5.2.9 The analysis demonstrates that the proposed development will not result in a 'severe' impact on the operation of the highway network or highway safety, which according to the NPPF (paragraph 111) is the threshold under which development should not be prevented or refused.

## 6. Parking Assessment

### 6.1 Proposed Parking Provision

6.1.1 The development proposals include a total of 58no. car parking spaces, which is below the recommended standard for B2 land uses, although it is above the standard for B8 land uses.

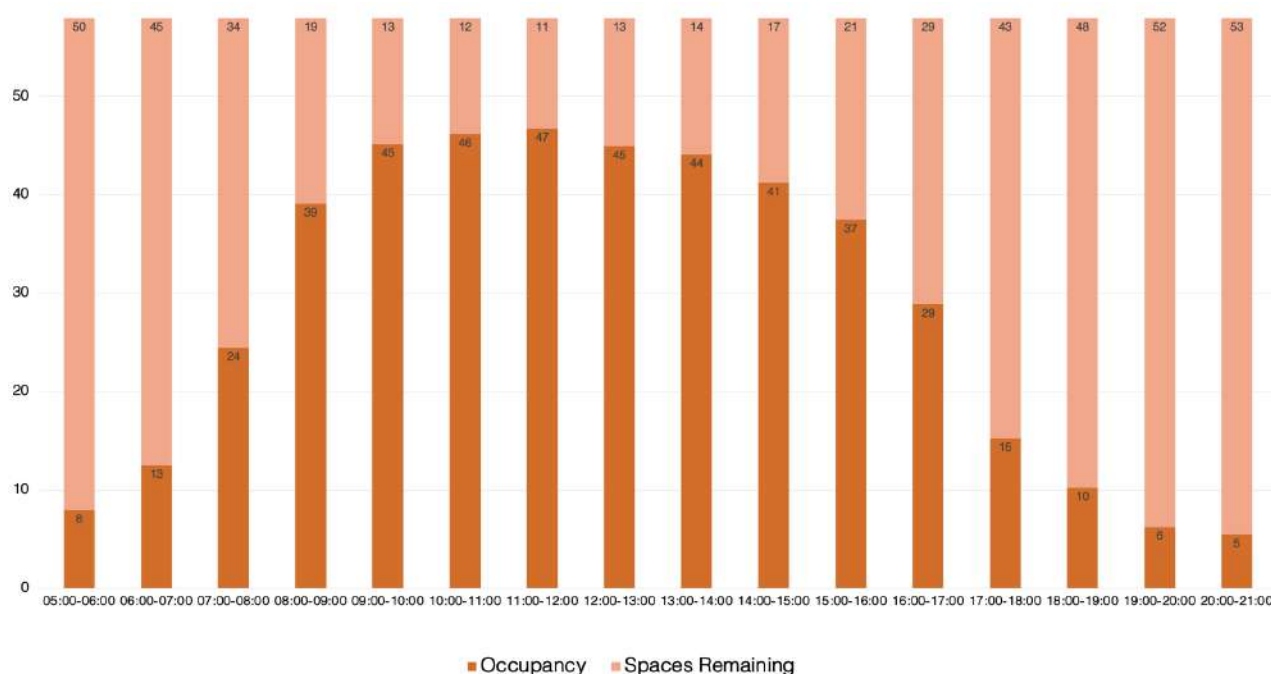
6.1.2 A TRICS based car parking accumulation exercise has been undertaken to justify the proposed level of provision with reference to the development proposals.

### 6.2 Car Park Accumulation

6.2.1 To provide evidence and re-assurance that the proposed level of parking provision is sufficient to accommodate the expected level of demand, a car park accumulation assessment has been undertaken. This uses the TRICS trip rates shown in [Appendix F](#) for vehicles trips arriving and departing across the day.

6.2.2 The car park accumulation assessment for the whole site is presented in [Figure 6.1](#), based on an initial occupancy of 3no. vehicles which is considered robust.

**Figure 6.1 : Car Park Accumulation – All Units**



6.2.3 The car park accumulation assessment demonstrates that the peak occupancy is not expected to exceed 47no. vehicles across a typical day based on an initial occupancy of 3no. vehicles.

6.2.4 Therefore, the proposed parking provision of 58no. spaces will accommodate operational demands and provide a surplus allowing for occasional peaks.

### 6.3 Manchester Core Strategy 2012 to 2027

6.3.1 Paragraph 8.44 of the *'Manchester Core Strategy 2012 to 2027'* states that *'if a developer seeks to provide a level of parking which differs from the advised standards, they must justify this approach in relation to demand management measures included in the proposal'*.

6.3.2 As stated previously, a Framework Travel Plan has also been produced as part of the planning application documentation, which will aim to reduce car travel to and from the site, which will in turn reduce car parking demand. The proposals also include the provision of cycle parking above MCC standards.

### 6.4 Summary

6.4.1 In summary, the car parking accumulation analysis confirms that the proposed parking provision across the development site is adequate to meet the demand throughout the day, with further spaces available for any occasional increases in parking demand.

6.4.2 A Framework Travel Plan has also been produced as part of the planning application documentation. The document will aim to encourage sustainable travel to the site, reducing single occupancy car travel and car parking demand.

## 7. Summary and Conclusion

### 7.1 Summary

- 7.1.1 Mode Transport Planning has been appointed by Chancerygate Manchester Limited to provide transport planning and highways advice in relation to a planning application for an industrial development on land off Crabtree Lane in Manchester.
- 7.1.2 The proposed scheme will comprise 9no. industrial units (Use Class E(g)(iii)/B2/B8) with a Gross Internal Floor Area (GIFA) of 5,124sqm, as well as on-site car parking provision, cycle parking and associated landscaping. Access to the site will be via a new priority access on Crabtree Lane.
- 7.1.3 The analysis in this report has been carried out in accordance with current policy, guidance and best practice. The results demonstrate that:
- In accordance with local and national policy, the site is accessible by a range of sustainable modes of transport, including walking, cycling and bus services. These travel options provide a realistic alternative to single occupancy car travel, particularly for commuting trips.
  - Following a review of the most recent PIC records, there is no evidence to show the proposed development will have a detrimental impact on highway safety.
  - The proposed access arrangement and visibility splays comply with the relevant highway design standards.
  - Swept path analysis demonstrates that the largest vehicles associated with the development proposals, a 16.5m articulated HGV, a 10m rigid HGV and an 11.2m refuse collection vehicle, can all enter and exit the site in a forward gear, and manoeuvre safely within the site.
  - The proposed on-site car parking provision is above Manchester City Council's B8 parking standard but below the B2 parking standard. The car parking accumulation analysis confirms the level of parking proposed is sufficient to meet the expected level of demand across the site for the proposed uses, and a Framework Travel Plan has also been produced with the aim of reducing car travel and parking demand.
  - The proposed level of cycle parking and disabled parking is provided in excess of Manchester City Council's local adopted standards.
  - The proposed development is expected to generate **39** two-way trips, inclusive of 3 HGV trips, during the AM peak period and **40** two-way trips, inclusive of 3 HGV trips, during the PM peak period.
  - Overall, it can be concluded that the proposed development will not have a severe impact on the local highway network, which is the threshold stated by NPPF (Paragraph 111) under which development should not be refused on highways grounds.

## 7.2 Conclusion

- 7.2.1 In conclusion, based on the evidence and analysis within this report, there should be no highways or transport planning reasons that prevents this planning application from being approved.

# APPENDICES

## APPENDIX A Pre-application Correspondence with MCC

**From:** Rebecca Woollin rebeccawoollin@modetransport.co.uk   
**Subject:** Re: Crabtree Lane, Manchester  
**Date:** 26 July 2023 at 10:47  
**To:** Chris Peachey Chris.Peachey@manchester.gov.uk  
**Cc:** Mark Edwards markedwards@modetransport.co.uk, Laura Wareing Laura.Wareing@manchester.gov.uk

---

Morning Chris,

That's great – thank you very much for your response.

Kind regards

Rebecca

Rebecca Woollin BA (Hons) GradCIHT  
Graduate Transport Planner

 0161 464 9495

 rebeccawoollin@modetransport.co.uk

[www.modetransport.co.uk](http://www.modetransport.co.uk)

mode transport planning

106 Albert Mill, 10 Hulme Hall Road, Manchester, M15 4LY

keep up with mode:



Mode Transport Planning (Manchester) Limited | Registered in England number 10228306

---

**From:** Chris Peachey <Chris.Peachey@manchester.gov.uk>  
**Date:** Wednesday, 26 July 2023 at 10:42  
**To:** Rebecca Woollin <rebeccawoollin@modetransport.co.uk>  
**Cc:** Mark Edwards <markedwards@modetransport.co.uk>, Laura Wareing <Laura.Wareing@manchester.gov.uk>  
**Subject:** RE: Crabtree Lane, Manchester

Hi Rebecca,

Thanks for your email.

We have reviewed the swept path provided, it looks like the radii was amended to a 6.0m radii as part of the construction of the Ashton Metrolink Line, we would not be seeking to amend this arrangement.

Whilst the swept path analysis does show a large HGV over running the centreline, the PIA injury record for that junction is not a concern. Given the low volume of HGV movements associated with the site, we envisage that the HGV movements would be self-managed and undertaken when it is safe to do so. This is also an existing arrangement for the established industrial uses on Crab Tree Lane.

The trip distribution based on the observed traffic counts estimates that 70% of trips would depart to the east towards the M60, with a small number of trips routing westbound, again such a small number of movements turning right could be self-managed, given the low number of land uses on Crab Tree Lane it is unlikely that a waiting HGV would result in significant delay or be detrimental to other users on Crab Tree Lane.

Hope the above helps and happy to discuss further,

Chris  
Chris Peachey BA (Hons)  
Development Control Engineer  
Highways Development Control  
Neighbourhoods Directorate

Email: [chris.peachey@manchester.gov.uk](mailto:chris.peachey@manchester.gov.uk)

Web: <http://www.manchester.gov.uk>

POSTAL ADDRESS: Manchester City Council, The Highways Service, PO Box 532, Town Hall, Manchester, M60 2LA



---

**From:** Laura Wareing <Laura.Wareing@manchester.gov.uk>  
**Sent:** 25 July 2023 13:23  
**To:** Rebecca Woollin <rebeccawoollin@modetransport.co.uk>  
**Cc:** Mark Edwards <markedwards@modetransport.co.uk>; Chris Peachey <Chris.Peachey@manchester.gov.uk>  
**Subject:** RE: Crabtree Lane, Manchester

Hi Rebecca,

I hope you are well and had a lovely weekend. Thank you for your email, my colleague Chris Peachey (cc'd) is reviewing your email and we hope to have a response with you by the end of the week.

Many thanks,

Laura

Laura Wareing (BSc Hons, MSc)  
Development Control Engineer  
Highways Development Control  
Neighbourhoods Directorate

Please Note my Working Hours: Mon - Fri 08:00 - 16:00

Email: [laura.wareing@manchester.gov.uk](mailto:laura.wareing@manchester.gov.uk)

Mobile: 07989162964

Web: <http://www.manchester.gov.uk>

POSTAL ADDRESS: Manchester City Council, The Highways Service, PO Box 532, Town Hall, Manchester, M60 2LA



---

**From:** Rebecca Woollin <[rebeccawoollin@modetransport.co.uk](mailto:rebeccawoollin@modetransport.co.uk)>

**Sent:** 25 July 2023 13:09

**To:** Laura Wareing <[Laura.Wareing@manchester.gov.uk](mailto:Laura.Wareing@manchester.gov.uk)>

**Cc:** Mark Edwards <[markedwards@modetransport.co.uk](mailto:markedwards@modetransport.co.uk)>

**Subject:** Re: Crabtree Lane, Manchester

Hi Laura,

Hope you are well.

Following on from my email below, have you had a chance to review this?

Kind regards

Rebecca

**Rebecca Woollin** BA (Hons) GradCIHT  
Graduate Transport Planner

☎ 0161 464 9495

✉ [rebeccawoollin@modetransport.co.uk](mailto:rebeccawoollin@modetransport.co.uk)

[www.modetransport.co.uk](http://www.modetransport.co.uk)

**mode transport planning**

106 Albert Mill, 10 Hulme Hall Road, Manchester, M15 4LY

keep up with mode:



Mode Transport Planning (Manchester) Limited | Registered in England number 10228306

---

**From:** Rebecca Woollin <[rebeccawoollin@modetransport.co.uk](mailto:rebeccawoollin@modetransport.co.uk)>

**Date:** Thursday, 20 July 2023 at 11:44

**To:** Laura Wareing <[Laura.Wareing@manchester.gov.uk](mailto:Laura.Wareing@manchester.gov.uk)>

**Cc:** Mark Edwards <[markedwards@modetransport.co.uk](mailto:markedwards@modetransport.co.uk)>

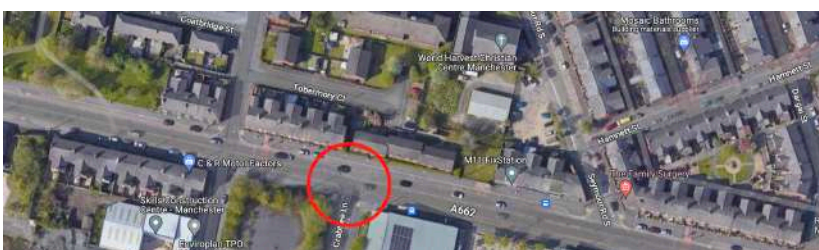
**Subject:** Crabtree Lane, Manchester

Morning Laura,

Hope you're well.

Mode have been appointed to give highways advice in relation to a potential industrial development located off Crabtree Lane in Clayton, Manchester. Following a pre-application meeting, Manchester City Council provided comments on the proposals, which included some high-level comments regarding highways. However, there is one point regarding a nearby junction which we would be grateful for an initial view on from yourselves.

Mode have looked at the Ashton New Road (A662)/ Crabtree Lane junction to the north of the site. The location of the development site (red dot) and this junction (red circle) are shown below:





Your personal data is very important to us. Please refer to our privacy notice at: [www.manchester.gov.uk/privacy](http://www.manchester.gov.uk/privacy) for further information.

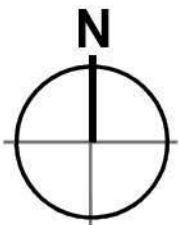
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## APPENDIX B

Proposed Site Layout



- Dimensions are in millimeters, unless stated otherwise.  
- Scaling of this drawing is not recommended.  
- It is the recipient's responsibility to print this document to the correct scale.  
- All relevant drawings and specifications should be read in conjunction with this drawing.

Site Boundary  
2.27 acres (0.9200 ha)

KEY

- 9 Level Access Doors
- Electric Charging Spaces x18  
All remaining spaces to be future proofed for 100%
- Grass roof Cycle Shelter for 14 Cycles  
Each unit contains 2 internal cycle spaces (18 Cycles)  
OVERALL 32 Cycle space provision
- Existing 2.4m High Metal Palisade Fence (Colour black)
- Proposed 2.4m High Metal Palisade Fence (Colour black)
- Pedestrian and Vehicle gates in 2.4m high palisade style (Colour black)
- Retractable/drop down bollards 900mm high
- Indicative retaining wall position  
Where required retaining walls will have key clamp guarding to the top to prevent falls.
- Private Means of Access - No works in this area.

58 no. Car parking spaces (inc. 9 accessible)

| Schedule of Accommodation Units 1-4 |        |         |        |         |        |
|-------------------------------------|--------|---------|--------|---------|--------|
| UNIT 1                              | sq m   | sq ft   | sq m   | sq ft   | Mezz % |
| Warehouse                           | 537.6  | 5789.7  | 582.0  | 6264.6  |        |
| GF Recessed Loading                 | 42.0   | 452.1   | 45.0   | 484.4   |        |
| Mezz                                | 179.0  | 1928.7  | 198.0  | 2139.7  |        |
| Total                               | 758.6  | 8165.5  | 825.0  | 8888.7  | 24%    |
| UNIT 2                              | sq m   | sq ft   | sq m   | sq ft   | Mezz % |
| Warehouse                           | 390.5  | 4203.3  | 416.6  | 4484.2  |        |
| GF Recessed Loading                 | 42.0   | 452.1   | 45.0   | 484.4   |        |
| Mezz                                | 134.9  | 1462.4  | 144.0  | 1555.6  |        |
| Total                               | 567.4  | 6097.7  | 605.6  | 6519.6  | 24%    |
| UNIT 3                              | sq m   | sq ft   | sq m   | sq ft   | Mezz % |
| Warehouse                           | 350.0  | 3767.4  | 370.0  | 3985.6  |        |
| Mezz                                | 105.0  | 1130.2  | 116.0  | 1248.6  |        |
| Total                               | 455.0  | 4897.6  | 486.0  | 5234.2  | 23%    |
| UNIT 4                              | sq m   | sq ft   | sq m   | sq ft   | Mezz % |
| Warehouse                           | 412.0  | 4434.7  | 444.0  | 4779.2  |        |
| Mezz                                | 123.0  | 1324.6  | 136.0  | 1466.2  |        |
| Total                               | 535.0  | 5759.3  | 580.0  | 6245.4  | 23%    |
| GRAND TOTAL                         | 2315.1 | 24919.6 | 2497.6 | 26883.6 |        |

| Schedule of Accommodation Unit 5 |        |         |        |         |
|----------------------------------|--------|---------|--------|---------|
| UNIT 5                           | sq m   | sq ft   | sq m   | sq ft   |
| Warehouse                        | 992.0  | 10677.6 | 1055.0 | 11355.9 |
| Mezz                             | 244.0  | 2629.4  | 273.0  | 2939.6  |
| GRAND TOTAL                      | 1236.0 | 13307.0 | 1328.0 | 14295.5 |

| Schedule of Accommodation Units 6-9 |        |         |        |         |
|-------------------------------------|--------|---------|--------|---------|
| UNIT 6                              | sq m   | sq ft   | sq m   | sq ft   |
| Warehouse                           | 328.0  | 3530.6  | 359.0  | 3884.2  |
| Mezz                                | 126.0  | 1359.3  | 140.0  | 1509.9  |
| Total                               | 454.0  | 4889.9  | 499.0  | 5394.1  |
| UNIT 7                              | sq m   | sq ft   | sq m   | sq ft   |
| Warehouse                           | 289.0  | 3109.7  | 287.0  | 3099.2  |
| Mezz                                | 103.0  | 1108.7  | 112.0  | 1205.6  |
| Total                               | 392.0  | 4218.4  | 399.0  | 4304.8  |
| UNIT 8                              | sq m   | sq ft   | sq m   | sq ft   |
| Warehouse                           | 289.0  | 3109.7  | 287.0  | 3099.2  |
| Mezz                                | 103.0  | 1108.7  | 112.0  | 1205.6  |
| Total                               | 392.0  | 4218.4  | 399.0  | 4304.8  |
| UNIT 9                              | sq m   | sq ft   | sq m   | sq ft   |
| Warehouse                           | 271.0  | 2917.0  | 297.0  | 3196.6  |
| Mezz                                | 104.0  | 1119.4  | 116.0  | 1248.6  |
| Total                               | 375.0  | 4036.4  | 413.0  | 4445.2  |
| GRAND TOTAL                         | 1573.0 | 16831.6 | 1710.0 | 18406.3 |

| Schedule of Accommodation TOTAL |         |          |
|---------------------------------|---------|----------|
| OVERALL TOTAL                   | sq m    | sq ft    |
|                                 | 5,124.1 | 55,155.3 |

|      |                                         |    |     |          |
|------|-----------------------------------------|----|-----|----------|
| P.04 | Rear boundary revised to suit features. | JC | JC  | 15.12.23 |
| P.03 | Fences revised, easement zone added.    | JC | JC  | 23.11.23 |
| P.02 | Table of areas added.                   | JC | JC  | 14.11.23 |
| P.01 | Initial Issue                           | JC | JC  | 02.11.23 |
| rev  | amendments                              | by | ckd | date     |

Former Walkers Site, Crabtree Lane, Manchester  
Proposed Site Plan

Information Container LOD: LOD 100

Chancerygate

umc architects  
Newark Beacon, Cafferata Way, Newark, Nottinghamshire NG24 2TN  
t: +44 (0)1636 653027 e: info@umcarcitects.com

|                                  |                          |
|----------------------------------|--------------------------|
| RIBA PoW Stage:                  | 3 - Spatial Coordination |
| Document Suitability:            | S1                       |
| Drawn / Checked:                 | JWC / JC                 |
| Date:                            | 02/11/2023               |
| Scale:                           | 1:250 A1                 |
| UMC Project Number:              | 23168                    |
| Document Reference:              | Drawing no: Revision:    |
| 23168 - UMC - XXXX - SI - DR - A | 0601 P04                 |

Proposed Site Plan  
Scale 1:250

5m SCALE 1:250

## APPENDIX C Proposed Access Arrangement



transport planning

t 0161 464 9495  
e info@modetransport.co.uk  
w www.modetransport.co.uk

2.4m x 25m visibility splay (MfS 20mph)

2.4m x 25m visibility splay (MfS 20mph)

R10m

R3m

Unit 9

Unit 8

Unit 7

Unit 6

Unit 5

notes:

1. this drawing is to be read in conjunction with all other relevant drawings, any discrepancies, errors or omissions to be brought to the attention of overseeing organisation.
2. all dimensions to be checked before commencement of work on site.
3. all dimensions in metres unless otherwise stated.
4. the design is subject to approval of manchester city council.
5. drawing based on os mapping.

issue/revision

|     |            |             |
|-----|------------|-------------|
| A   | 06/12/2023 | issued      |
| -   | 28/11/2023 | issued      |
| l/r | date       | description |

client: chancery gate

project: crabtree lane, manchester

project number: J327475

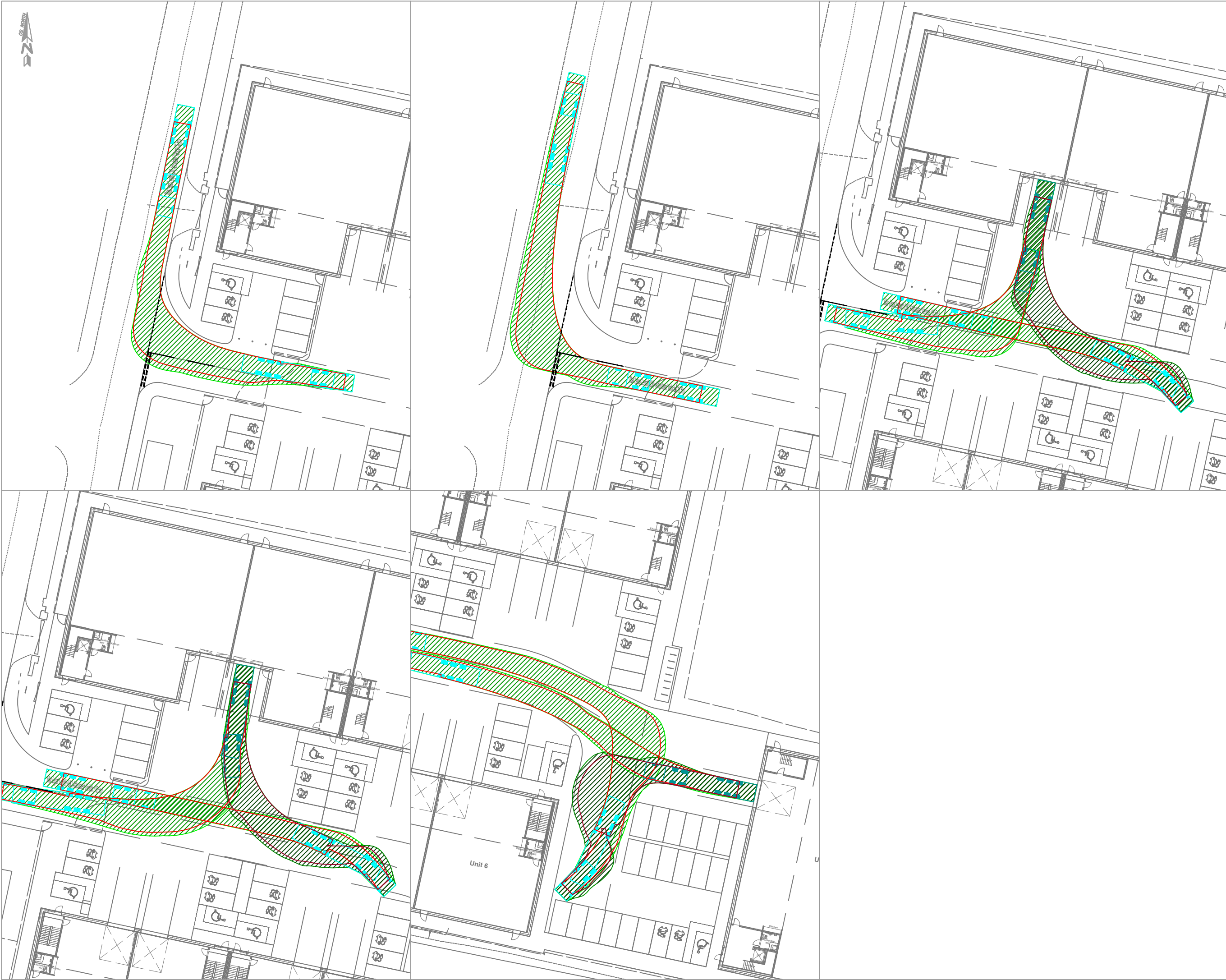
scale: 1:500@A3

drawing title:  
site access junction

drawing number:  
J32-7475-PS-002

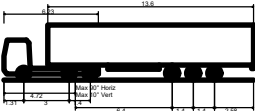
## APPENDIX D

### Swept Path Analysis



transport planning

t 0161 464 9495  
e info@modetransport.co.uk  
w www.modetransport.co.uk



Max Legal Length (UK) Articulated Vehicle (16.5m)  
Overall Length 16.500m  
Overall Width 2.500m  
Overall Body Height 3.632m  
Min Body Ground Clearance 0.366m  
Max Track Width 2.500m  
Lock to lock time 6.00s  
Kerb to Kerb Turning Radius 6.870m

- notes:
1. this drawing is to be read in conjunction with all other relevant drawings, any discrepancies, errors or omissions to be brought to the attention of overseeing organisation.
  2. all dimensions to be checked before commencement of work on site.
  3. all dimensions in metres unless otherwise stated.
  4. the design is subject to approval of manchester city council.
  5. drawing based on os mapping.

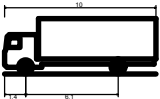
| issue/revision |            |             |
|----------------|------------|-------------|
| -              | 28/11/2023 | issued      |
| l/r            | date       | description |

client: chancery gate  
project: crabtree lane, manchester  
project number: J327475  
scale: 1:500@A3  
drawing title:  
16.5m HGV swept path analysis  
drawing number:  
J32-7475-PS-003



transport planning

t 0161 464 9495  
e info@modetransport.co.uk  
w www.modetransport.co.uk

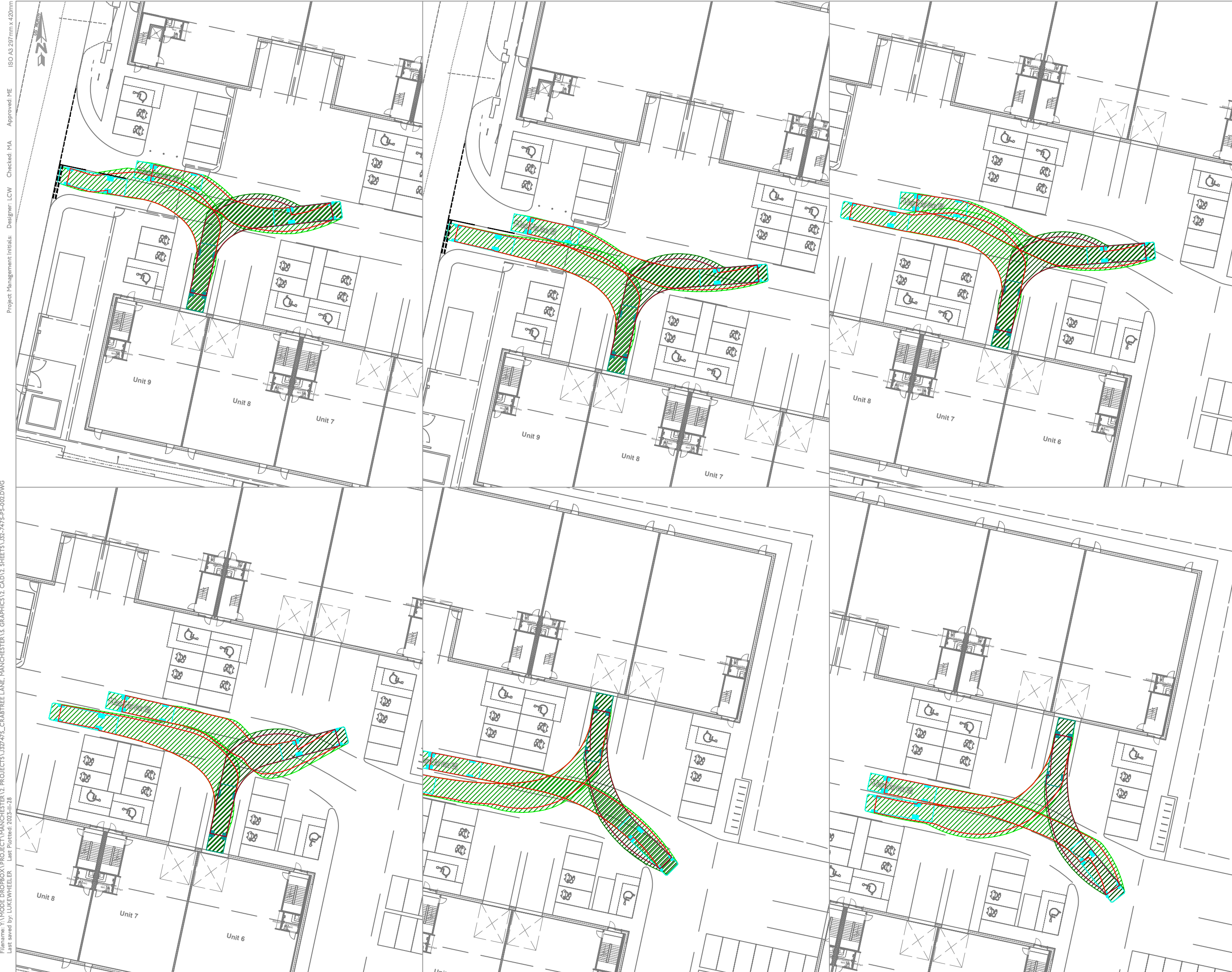


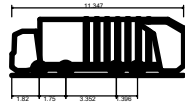
FTA Design HG Rigid Vehicle (1998)  
Overall Length 10.000m  
Overall Width 2.500m  
Overall Body Height 3.645m  
Min Body Ground Clearance 0.440m  
Track Width 2.470m  
Lock to lock time 3.00s  
Kerb to Kerb Turning Radius 11.000m

- notes:
1. this drawing is to be read in conjunction with all other relevant drawings, any discrepancies, errors or omissions to be brought to the attention of overseeing organisation.
  2. all dimensions to be checked before commencement of work on site.
  3. all dimensions in metres unless otherwise stated.
  4. the design is subject to approval of manchester city council.
  5. drawing based on os mapping.

| issue/revision |            |             |
|----------------|------------|-------------|
| -              | 28/11/2023 | issued      |
| l/r            | date       | description |

client: chancery gate  
project: crabtree lane, manchester  
project number: J327475  
scale: 1:500@A3  
drawing title:  
10m rigid swept path analysis  
drawing number:  
J32-7475-PS-004





|                               |         |
|-------------------------------|---------|
| Large Refuse Vehicle (4 axle) |         |
| Overall Length                | 11.347m |
| Overall Width                 | 2.500m  |
| Overall Body Height           | 3.751m  |
| Min Body Ground Clearance     | 0.304m  |
| Track Width                   | 2.500m  |
| Lock to lock time             | 6.00s   |
| Wall to Wall Turning Radius   | 11.330m |

- notes:
1. this drawing is to be read in conjunction with all other relevant drawings, any discrepancies, errors or omissions to be brought to the attention of overseeing organisation.
  2. all dimensions to be checked before commencement of work on site.
  3. all dimensions in metres unless otherwise stated.
  4. the design is subject to approval of manchester city council.
  5. drawing based on os mapping.

| issue/revision |            |             |
|----------------|------------|-------------|
| -              | 28/11/2023 | issued      |
| l/r            | date       | description |

client: chancery gate  
project: crabtree lane, manchester  
project number: J327475  
scale: 1:500@A3  
drawing title:  
refuse vehicle swept path analysis  
drawing number:  
J32-7475-PS-005

## APPENDIX E

Full TRICS Outputs

Calculation Reference: AUDIT-754101-230605-0645

## TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 02 - EMPLOYMENT  
 Category : D - INDUSTRIAL ESTATE  
 TOTAL VEHICLES

Selected regions and areas:

|    |                                |        |
|----|--------------------------------|--------|
| 02 | SOUTH EAST                     |        |
|    | EX ESSEX                       | 2 days |
| 03 | SOUTH WEST                     |        |
|    | DV DEVON                       | 1 days |
|    | SD SWINDON                     | 1 days |
| 04 | EAST ANGLIA                    |        |
|    | NF NORFOLK                     | 1 days |
| 05 | EAST MIDLANDS                  |        |
|    | DY DERBY                       | 1 days |
|    | LN LINCOLNSHIRE                | 1 days |
| 06 | WEST MIDLANDS                  |        |
|    | WK WARWICKSHIRE                | 1 days |
|    | WM WEST MIDLANDS               | 1 days |
|    | WO WORCESTERSHIRE              | 1 days |
| 07 | YORKSHIRE & NORTH LINCOLNSHIRE |        |
|    | SY SOUTH YORKSHIRE             | 1 days |
|    | WY WEST YORKSHIRE              | 4 days |
| 08 | NORTH WEST                     |        |
|    | GM GREATER MANCHESTER          | 1 days |
|    | LC LANCASHIRE                  | 3 days |
| 09 | NORTH                          |        |
|    | TW TYNE & WEAR                 | 2 days |
| 10 | WALES                          |        |
|    | SW SWANSEA                     | 2 days |
|    | VG VALE OF GLAMORGAN           | 1 days |
| 11 | SCOTLAND                       |        |
|    | FI FIFE                        | 1 days |
| 12 | CONNAUGHT                      |        |
|    | CS SLIGO                       | 1 days |
|    | RO ROSCOMMON                   | 1 days |
| 13 | MUNSTER                        |        |
|    | CR CORK                        | 1 days |

*This section displays the number of survey days per TRICS® sub-region in the selected set*

mode transport limited Lombard House, 145 Great Charles Street Birmingham, B3 3LP

Licence No: 754101

**Primary Filtering selection:**

*This data displays the chosen trip rate parameter and its selected range. Only sites that fall within the parameter range are included in the trip rate calculation.*

Parameter: Gross floor area  
 Actual Range: 1138 to 17500 (units: sqm)  
 Range Selected by User: 1000 to 20000 (units: sqm)

Parking Spaces Range: All Surveys Included

**Public Transport Provision:**

Selection by: Include all surveys

Date Range: 01/01/15 to 18/11/22

*This data displays the range of survey dates selected. Only surveys that were conducted within this date range are included in the trip rate calculation.*

**Selected survey days:**

|           |        |
|-----------|--------|
| Monday    | 7 days |
| Tuesday   | 6 days |
| Wednesday | 5 days |
| Thursday  | 4 days |
| Friday    | 6 days |

*This data displays the number of selected surveys by day of the week.*

**Selected survey types:**

|                       |         |
|-----------------------|---------|
| Manual count          | 28 days |
| Directional ATC Count | 0 days  |

*This data displays the number of manual classified surveys and the number of unclassified ATC surveys, the total adding up to the overall number of surveys in the selected set. Manual surveys are undertaken using staff, whilst ATC surveys are undertaken using machines.*

**Selected Locations:**

|                                    |    |
|------------------------------------|----|
| Suburban Area (PPS6 Out of Centre) | 7  |
| Edge of Town                       | 21 |

*This data displays the number of surveys per main location category within the selected set. The main location categories consist of Free Standing, Edge of Town, Suburban Area, Neighbourhood Centre, Edge of Town Centre, Town Centre and Not Known.*

**Selected Location Sub Categories:**

|                  |    |
|------------------|----|
| Industrial Zone  | 12 |
| Development Zone | 2  |
| Residential Zone | 5  |
| No Sub Category  | 9  |

*This data displays the number of surveys per location sub-category within the selected set. The location sub-categories consist of Commercial Zone, Industrial Zone, Development Zone, Residential Zone, Retail Zone, Built-Up Zone, Village, Out of Town, High Street and No Sub Category.*

**Inclusion of Servicing Vehicles Counts:**

|                             |                    |
|-----------------------------|--------------------|
| Servicing vehicles Included | 7 days - Selected  |
| Servicing vehicles Excluded | 24 days - Selected |

**Secondary Filtering selection:****Use Class:**

|           |         |
|-----------|---------|
| Not Known | 28 days |
|-----------|---------|

*This data displays the number of surveys per Use Class classification within the selected set. The Use Classes Order (England) 2020 has been used for this purpose, which can be found within the Library module of TRICS®.*

**Filter by Site Operations Breakdown:**

All Surveys Included

**Population within 500m Range:**

All Surveys Included

## Secondary Filtering selection (Cont.):

Population within 1 mile:

|                  |        |
|------------------|--------|
| 1,001 to 5,000   | 2 days |
| 5,001 to 10,000  | 3 days |
| 10,001 to 15,000 | 9 days |
| 15,001 to 20,000 | 4 days |
| 20,001 to 25,000 | 3 days |
| 25,001 to 50,000 | 7 days |

*This data displays the number of selected surveys within stated 1-mile radii of population.*

Population within 5 miles:

|                    |         |
|--------------------|---------|
| 5,001 to 25,000    | 1 days  |
| 25,001 to 50,000   | 1 days  |
| 50,001 to 75,000   | 1 days  |
| 100,001 to 125,000 | 2 days  |
| 125,001 to 250,000 | 18 days |
| 250,001 to 500,000 | 5 days  |

*This data displays the number of selected surveys within stated 5-mile radii of population.*

Car ownership within 5 miles:

|            |         |
|------------|---------|
| 0.6 to 1.0 | 15 days |
| 1.1 to 1.5 | 11 days |
| 1.6 to 2.0 | 2 days  |

*This data displays the number of selected surveys within stated ranges of average cars owned per residential dwelling, within a radius of 5-miles of selected survey sites.*

Travel Plan:

|    |         |
|----|---------|
| No | 28 days |
|----|---------|

*This data displays the number of surveys within the selected set that were undertaken at sites with Travel Plans in place, and the number of surveys that were undertaken at sites without Travel Plans.*

PTAL Rating:

|                 |         |
|-----------------|---------|
| No PTAL Present | 28 days |
|-----------------|---------|

*This data displays the number of selected surveys with PTAL Ratings.*

LIST OF SITES relevant to selection parameters

|   |                                    |                   |                     |
|---|------------------------------------|-------------------|---------------------|
| 1 | CR-02-D-02                         | INDUSTRIAL ESTATE | CORK                |
|   | EAST CORK PARKWAY                  |                   |                     |
|   | CORK                               |                   |                     |
|   | GLANMIRE                           |                   |                     |
|   | Edge of Town                       |                   |                     |
|   | Industrial Zone                    |                   |                     |
|   | Total Gross floor area:            | 4727 sqm          |                     |
|   | Survey date: MONDAY                | 14/10/19          | Survey Type: MANUAL |
| 2 | CS-02-D-01                         | INDUSTRIAL ESTATE | SLIGO               |
|   | THE BACK AVENUE                    |                   |                     |
|   | SLIGO                              |                   |                     |
|   | CLEVERAGH                          |                   |                     |
|   | Edge of Town                       |                   |                     |
|   | No Sub Category                    |                   |                     |
|   | Total Gross floor area:            | 12008 sqm         |                     |
|   | Survey date: MONDAY                | 27/05/19          | Survey Type: MANUAL |
| 3 | DV-02-D-07                         | INDUSTRIAL ESTATE | DEVON               |
|   | BITTERN ROAD                       |                   |                     |
|   | EXETER                             |                   |                     |
|   | SOWTON IND. ESTATE                 |                   |                     |
|   | Edge of Town                       |                   |                     |
|   | Industrial Zone                    |                   |                     |
|   | Total Gross floor area:            | 3600 sqm          |                     |
|   | Survey date: MONDAY                | 03/07/17          | Survey Type: MANUAL |
| 4 | DY-02-D-01                         | INDUSTRIAL ESTATE | DERBY               |
|   | SHAFTESBURY STREET                 |                   |                     |
|   | DERBY                              |                   |                     |
|   | ROSE HILL                          |                   |                     |
|   | Suburban Area (PPS6 Out of Centre) |                   |                     |
|   | No Sub Category                    |                   |                     |
|   | Total Gross floor area:            | 5686 sqm          |                     |
|   | Survey date: WEDNESDAY             | 25/09/19          | Survey Type: MANUAL |
| 5 | EX-02-D-03                         | INDUSTRIAL ESTATE | ESSEX               |
|   | WYNCOLLS ROAD                      |                   |                     |
|   | COLCHESTER                         |                   |                     |
|   | SEVERALLS INDUSTRIAL PK            |                   |                     |
|   | Edge of Town                       |                   |                     |
|   | Industrial Zone                    |                   |                     |
|   | Total Gross floor area:            | 4876 sqm          |                     |
|   | Survey date: FRIDAY                | 18/05/18          | Survey Type: MANUAL |
| 6 | EX-02-D-05                         | INDUSTRIAL ESTATE | ESSEX               |
|   | HECKWORTH CLOSE                    |                   |                     |
|   | COLCHESTER                         |                   |                     |
|   | SEVERALLS INDUSTRIAL PK            |                   |                     |
|   | Edge of Town                       |                   |                     |
|   | Industrial Zone                    |                   |                     |
|   | Total Gross floor area:            | 7280 sqm          |                     |
|   | Survey date: FRIDAY                | 18/05/18          | Survey Type: MANUAL |
| 7 | FI-02-D-01                         | INDUSTRIAL ESTATE | FIFE                |
|   | DICKSON STREET                     |                   |                     |
|   | DUNFERMLINE                        |                   |                     |
|   | Edge of Town                       |                   |                     |
|   | Residential Zone                   |                   |                     |
|   | Total Gross floor area:            | 7850 sqm          |                     |
|   | Survey date: THURSDAY              | 21/05/15          | Survey Type: MANUAL |
| 8 | GM-02-D-07                         | BUSINESS PARK     | GREATER MANCHESTER  |
|   | VULCAN STREET                      |                   |                     |
|   | OLDHAM                             |                   |                     |
|   | Suburban Area (PPS6 Out of Centre) |                   |                     |
|   | Residential Zone                   |                   |                     |
|   | Total Gross floor area:            | 4400 sqm          |                     |
|   | Survey date: THURSDAY              | 22/10/15          | Survey Type: MANUAL |

LIST OF SITES relevant to selection parameters (Cont.)

|    |                                    |                   |                     |
|----|------------------------------------|-------------------|---------------------|
| 9  | LC-02-D-06                         | INDUSTRIAL ESTATE | LANCASHIRE          |
|    | SMALLSHAW LANE                     |                   |                     |
|    | BURNLEY                            |                   |                     |
|    | Suburban Area (PPS6 Out of Centre) |                   |                     |
|    | Industrial Zone                    |                   |                     |
|    | Total Gross floor area:            | 7383 sqm          |                     |
|    | Survey date: THURSDAY              | 29/09/16          | Survey Type: MANUAL |
| 10 | LC-02-D-07                         | INDUSTRIAL ESTATE | LANCASHIRE          |
|    | CHAIN CAUL WAY                     |                   |                     |
|    | PRESTON                            |                   |                     |
|    | ASHTON-ON-RIBBLE                   |                   |                     |
|    | Edge of Town                       |                   |                     |
|    | Industrial Zone                    |                   |                     |
|    | Total Gross floor area:            | 4700 sqm          |                     |
|    | Survey date: FRIDAY                | 17/11/17          | Survey Type: MANUAL |
| 11 | LC-02-D-08                         | INDUSTRIAL ESTATE | LANCASHIRE          |
|    | NOOK LANE                          |                   |                     |
|    | BAMBER BRIDGE                      |                   |                     |
|    | Edge of Town                       |                   |                     |
|    | Industrial Zone                    |                   |                     |
|    | Total Gross floor area:            | 4000 sqm          |                     |
|    | Survey date: TUESDAY               | 06/11/18          | Survey Type: MANUAL |
| 12 | LN-02-D-03                         | INDUSTRIAL ESTATE | LINCOLNSHIRE        |
|    | DEACON ROAD                        |                   |                     |
|    | LINCOLN                            |                   |                     |
|    | Edge of Town                       |                   |                     |
|    | Industrial Zone                    |                   |                     |
|    | Total Gross floor area:            | 11265 sqm         |                     |
|    | Survey date: FRIDAY                | 28/06/19          | Survey Type: MANUAL |
| 13 | NF-02-D-04                         | INDUSTRIAL ESTATE | NORFOLK             |
|    | DRAYTON HIGH ROAD                  |                   |                     |
|    | NORWICH                            |                   |                     |
|    | Edge of Town                       |                   |                     |
|    | No Sub Category                    |                   |                     |
|    | Total Gross floor area:            | 10673 sqm         |                     |
|    | Survey date: WEDNESDAY             | 14/09/22          | Survey Type: MANUAL |
| 14 | RO-02-D-01                         | INDUSTRIAL ESTATE | ROSCOMMON           |
|    | ÁTHLONE ROAD                       |                   |                     |
|    | ROSCOMMON                          |                   |                     |
|    | ARDSALLAGH MÓRE                    |                   |                     |
|    | Edge of Town                       |                   |                     |
|    | No Sub Category                    |                   |                     |
|    | Total Gross floor area:            | 2030 sqm          |                     |
|    | Survey date: FRIDAY                | 27/04/18          | Survey Type: MANUAL |
| 15 | SD-02-D-01                         | INDUSTRIAL ESTATE | SWINDON             |
|    | HEADLANDS GROVE                    |                   |                     |
|    | SWINDON                            |                   |                     |
|    | Suburban Area (PPS6 Out of Centre) |                   |                     |
|    | Residential Zone                   |                   |                     |
|    | Total Gross floor area:            | 10000 sqm         |                     |
|    | Survey date: TUESDAY               | 20/09/16          | Survey Type: MANUAL |

LIST OF SITES relevant to selection parameters (Cont.)

|    |                                    |                   |                     |
|----|------------------------------------|-------------------|---------------------|
| 16 | SW-02-D-01                         | INDUSTRIAL ESTATE | SWANSEA             |
|    | UPPER FOREST WAY                   |                   |                     |
|    | SWANSEA                            |                   |                     |
|    | SWANSEA ENTERPRISE PK              |                   |                     |
|    | Edge of Town                       |                   |                     |
|    | Industrial Zone                    |                   |                     |
|    | Total Gross floor area:            | 6822 sqm          |                     |
|    | Survey date: WEDNESDAY             | 09/10/19          | Survey Type: MANUAL |
| 17 | SW-02-D-02                         | INDUSTRIAL ESTATE | SWANSEA             |
|    | CLARION COURT                      |                   |                     |
|    | SWANSEA                            |                   |                     |
|    | SWANSEA ENTERPRISE PK              |                   |                     |
|    | Edge of Town                       |                   |                     |
|    | Industrial Zone                    |                   |                     |
|    | Total Gross floor area:            | 5280 sqm          |                     |
|    | Survey date: THURSDAY              | 10/10/19          | Survey Type: MANUAL |
| 18 | SY-02-D-04                         | INDUSTRIAL ESTATE | SOUTH YORKSHIRE     |
|    | MIDDLE BANK                        |                   |                     |
|    | DONCASTER                          |                   |                     |
|    | Suburban Area (PPS6 Out of Centre) |                   |                     |
|    | Industrial Zone                    |                   |                     |
|    | Total Gross floor area:            | 6737 sqm          |                     |
|    | Survey date: TUESDAY               | 21/09/21          | Survey Type: MANUAL |
| 19 | TW-02-D-08                         | INDUSTRIAL ESTATE | TYNE & WEAR         |
|    | NORTH HYLTON ROAD                  |                   |                     |
|    | SUNDERLAND                         |                   |                     |
|    | SOUTHWICK                          |                   |                     |
|    | Suburban Area (PPS6 Out of Centre) |                   |                     |
|    | Development Zone                   |                   |                     |
|    | Total Gross floor area:            | 8310 sqm          |                     |
|    | Survey date: TUESDAY               | 04/04/17          | Survey Type: MANUAL |
| 20 | TW-02-D-09                         | INDUSTRIAL ESTATE | TYNE & WEAR         |
|    | ELEVENTH AVENUE                    |                   |                     |
|    | GATESHEAD                          |                   |                     |
|    | TEAM VALLEY                        |                   |                     |
|    | Edge of Town                       |                   |                     |
|    | No Sub Category                    |                   |                     |
|    | Total Gross floor area:            | 6200 sqm          |                     |
|    | Survey date: WEDNESDAY             | 18/05/22          | Survey Type: MANUAL |
| 21 | VG-02-D-01                         | INDUSTRIAL ESTATE | VALE OF GLAMORGAN   |
|    | ARTHUR STREET                      |                   |                     |
|    | BARRY                              |                   |                     |
|    | Edge of Town                       |                   |                     |
|    | No Sub Category                    |                   |                     |
|    | Total Gross floor area:            | 13091 sqm         |                     |
|    | Survey date: MONDAY                | 08/05/17          | Survey Type: MANUAL |
| 22 | WK-02-D-04                         | INDUSTRIAL ESTATE | WARWICKSHIRE        |
|    | ABELES WAY                         |                   |                     |
|    | ATHERSTONE                         |                   |                     |
|    | Edge of Town                       |                   |                     |
|    | No Sub Category                    |                   |                     |
|    | Total Gross floor area:            | 17500 sqm         |                     |
|    | Survey date: FRIDAY                | 27/09/19          | Survey Type: MANUAL |
| 23 | WM-02-D-03                         | INDUSTRIAL ESTATE | WEST MIDLANDS       |
|    | JUNCTION ROAD                      |                   |                     |
|    | STOURBRIDGE                        |                   |                     |
|    | AUDNAM                             |                   |                     |
|    | Suburban Area (PPS6 Out of Centre) |                   |                     |
|    | Residential Zone                   |                   |                     |
|    | Total Gross floor area:            | 1138 sqm          |                     |
|    | Survey date: TUESDAY               | 28/11/17          | Survey Type: MANUAL |

LIST OF SITES relevant to selection parameters (Cont.)

|    |                         |                          |                     |
|----|-------------------------|--------------------------|---------------------|
| 24 | WO-02-D-02              | INDUSTRIAL ESTATE        | WORCESTERSHIRE      |
|    | WEIR LANE               |                          |                     |
|    | WORCESTER               |                          |                     |
|    | Edge of Town            |                          |                     |
|    | Residential Zone        |                          |                     |
|    | Total Gross floor area: | 9500 sqm                 |                     |
|    | Survey date: MONDAY     | 14/11/16                 | Survey Type: MANUAL |
| 25 | WY-02-D-05              | INDUSTRIAL ESTATE        | WEST YORKSHIRE      |
|    | CARR WOOD ROAD          |                          |                     |
|    | CASTLEFORD              |                          |                     |
|    | Edge of Town            |                          |                     |
|    | Development Zone        |                          |                     |
|    | Total Gross floor area: | 1776 sqm                 |                     |
|    | Survey date: MONDAY     | 22/05/17                 | Survey Type: MANUAL |
| 26 | WY-02-D-06              | INDUSTRIAL ESTATE (PART) | WEST YORKSHIRE      |
|    | PIONEER WAY             |                          |                     |
|    | CASTLEFORD              |                          |                     |
|    | Edge of Town            |                          |                     |
|    | Industrial Zone         |                          |                     |
|    | Total Gross floor area: | 4328 sqm                 |                     |
|    | Survey date: TUESDAY    | 23/05/17                 | Survey Type: MANUAL |
| 27 | WY-02-D-07              | INDUSTRIAL ESTATE        | WEST YORKSHIRE      |
|    | THUNDERHEAD RIDGE RD    |                          |                     |
|    | CASTLEFORD              |                          |                     |
|    | GLASSHOUGHTON           |                          |                     |
|    | Edge of Town            |                          |                     |
|    | No Sub Category         |                          |                     |
|    | Total Gross floor area: | 3191 sqm                 |                     |
|    | Survey date: MONDAY     | 15/05/17                 | Survey Type: MANUAL |
| 28 | WY-02-D-08              | INDUSTRIAL ESTATE        | WEST YORKSHIRE      |
|    | MILL LANE               |                          |                     |
|    | HALIFAX                 |                          |                     |
|    | Edge of Town            |                          |                     |
|    | No Sub Category         |                          |                     |
|    | Total Gross floor area: | 11305 sqm                |                     |
|    | Survey date: WEDNESDAY  | 17/10/18                 | Survey Type: MANUAL |

This section provides a list of all survey sites and days in the selected set. For each individual survey site, it displays a unique site reference code and site address, the selected trip rate calculation parameter and its value, the day of the week and date of each survey, and whether the survey was a manual classified count or an ATC count.

MANUALLY DESELECTED SITES

| Site Ref   | Reason for Deselection |
|------------|------------------------|
| NM-02-D-01 | COVID-19               |
| SF-02-D-03 | COVID-19               |
| TI-02-D-02 | COVID-19               |

TRIP RATE for Land Use 02 - EMPLOYMENT/D - INDUSTRIAL ESTATE  
TOTAL VEHICLES  
Calculation factor: 100 sqm  
BOLD print indicates peak (busiest) period

| Time Range    | ARRIVALS |          |           | DEPARTURES |          |           | TOTALS   |          |           |
|---------------|----------|----------|-----------|------------|----------|-----------|----------|----------|-----------|
|               | No. Days | Ave. GFA | Trip Rate | No. Days   | Ave. GFA | Trip Rate | No. Days | Ave. GFA | Trip Rate |
| 00:00 - 01:00 |          |          |           |            |          |           |          |          |           |
| 01:00 - 02:00 |          |          |           |            |          |           |          |          |           |
| 02:00 - 03:00 |          |          |           |            |          |           |          |          |           |
| 03:00 - 04:00 |          |          |           |            |          |           |          |          |           |
| 04:00 - 05:00 |          |          |           |            |          |           |          |          |           |
| 05:00 - 06:00 | 8        | 7953     | 0.104     | 8          | 7953     | 0.008     | 8        | 7953     | 0.112     |
| 06:00 - 07:00 | 9        | 8321     | 0.130     | 9          | 8321     | 0.040     | 9        | 8321     | 0.170     |
| 07:00 - 08:00 | 28       | 6988     | 0.343     | 28         | 6988     | 0.110     | 28       | 6988     | 0.453     |
| 08:00 - 09:00 | 28       | 6988     | 0.525     | 28         | 6988     | 0.240     | 28       | 6988     | 0.765     |
| 09:00 - 10:00 | 28       | 6988     | 0.460     | 28         | 6988     | 0.342     | 28       | 6988     | 0.802     |
| 10:00 - 11:00 | 28       | 6988     | 0.366     | 28         | 6988     | 0.346     | 28       | 6988     | 0.712     |
| 11:00 - 12:00 | 28       | 6988     | 0.398     | 28         | 6988     | 0.387     | 28       | 6988     | 0.785     |
| 12:00 - 13:00 | 28       | 6988     | 0.384     | 28         | 6988     | 0.419     | 28       | 6988     | 0.803     |
| 13:00 - 14:00 | 28       | 6988     | 0.396     | 28         | 6988     | 0.412     | 28       | 6988     | 0.808     |
| 14:00 - 15:00 | 28       | 6988     | 0.358     | 28         | 6988     | 0.415     | 28       | 6988     | 0.773     |
| 15:00 - 16:00 | 28       | 6988     | 0.300     | 28         | 6988     | 0.373     | 28       | 6988     | 0.673     |
| 16:00 - 17:00 | 28       | 6988     | 0.305     | 28         | 6988     | 0.472     | 28       | 6988     | 0.777     |
| 17:00 - 18:00 | 28       | 6988     | 0.205     | 28         | 6988     | 0.471     | 28       | 6988     | 0.676     |
| 18:00 - 19:00 | 28       | 6988     | 0.076     | 28         | 6988     | 0.174     | 28       | 6988     | 0.250     |
| 19:00 - 20:00 | 9        | 8321     | 0.021     | 9          | 8321     | 0.099     | 9        | 8321     | 0.120     |
| 20:00 - 21:00 | 9        | 8321     | 0.013     | 9          | 8321     | 0.028     | 9        | 8321     | 0.041     |
| 21:00 - 22:00 |          |          |           |            |          |           |          |          |           |
| 22:00 - 23:00 |          |          |           |            |          |           |          |          |           |
| 23:00 - 24:00 |          |          |           |            |          |           |          |          |           |
| Total Rates:  |          |          | 4.384     |            |          | 4.336     |          |          | 8.720     |

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

To obtain a trip rate, the average (mean) trip rate parameter value (TRP) is first calculated for all selected survey days that have count data available for the stated time period. The average (mean) number of arrivals, departures or totals (whichever applies) is also calculated (COUNT) for all selected survey days that have count data available for the stated time period. Then, the average count is divided by the average trip rate parameter value, and multiplied by the stated calculation factor (shown just above the table and abbreviated here as FACT). So, the method is: COUNT/TRP\*FACT. Trip rates are then rounded to 3 decimal places.

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#### Parameter summary

|                                               |                           |
|-----------------------------------------------|---------------------------|
| Trip rate parameter range selected:           | 1138 - 17500 (units: sqm) |
| Survey date range:                            | 01/01/15 - 18/11/22       |
| Number of weekdays (Monday-Friday):           | 28                        |
| Number of Saturdays:                          | 0                         |
| Number of Sundays:                            | 0                         |
| Surveys automatically removed from selection: | 0                         |
| Surveys manually removed from selection:      | 3                         |

*This section displays a quick summary of some of the data filtering selections made by the TRICS® user. The trip rate calculation parameter range of all selected surveys is displayed first, followed by the range of minimum and maximum survey dates selected by the user. Then, the total number of selected weekdays and weekend days in the selected set of surveys are shown. Finally, the number of survey days that have been manually removed from the selected set outside of the standard filtering procedure are displayed.*

TRIP RATE for Land Use 02 - EMPLOYMENT/D - INDUSTRIAL ESTATE  
OGVS  
Calculation factor: 100 sqm  
BOLD print indicates peak (busiest) period

| Time Range    | ARRIVALS |          |           | DEPARTURES |          |           | TOTALS   |          |           |
|---------------|----------|----------|-----------|------------|----------|-----------|----------|----------|-----------|
|               | No. Days | Ave. GFA | Trip Rate | No. Days   | Ave. GFA | Trip Rate | No. Days | Ave. GFA | Trip Rate |
| 00:00 - 01:00 |          |          |           |            |          |           |          |          |           |
| 01:00 - 02:00 |          |          |           |            |          |           |          |          |           |
| 02:00 - 03:00 |          |          |           |            |          |           |          |          |           |
| 03:00 - 04:00 |          |          |           |            |          |           |          |          |           |
| 04:00 - 05:00 |          |          |           |            |          |           |          |          |           |
| 05:00 - 06:00 | 8        | 7953     | 0.000     | 8          | 7953     | 0.000     | 8        | 7953     | 0.000     |
| 06:00 - 07:00 | 9        | 8321     | 0.003     | 9          | 8321     | 0.007     | 9        | 8321     | 0.010     |
| 07:00 - 08:00 | 28       | 6988     | 0.014     | 28         | 6988     | 0.010     | 28       | 6988     | 0.024     |
| 08:00 - 09:00 | 28       | 6988     | 0.032     | 28         | 6988     | 0.025     | 28       | 6988     | 0.057     |
| 09:00 - 10:00 | 28       | 6988     | 0.040     | 28         | 6988     | 0.036     | 28       | 6988     | 0.076     |
| 10:00 - 11:00 | 28       | 6988     | 0.032     | 28         | 6988     | 0.032     | 28       | 6988     | 0.064     |
| 11:00 - 12:00 | 28       | 6988     | 0.036     | 28         | 6988     | 0.038     | 28       | 6988     | 0.074     |
| 12:00 - 13:00 | 28       | 6988     | 0.034     | 28         | 6988     | 0.028     | 28       | 6988     | 0.062     |
| 13:00 - 14:00 | 28       | 6988     | 0.031     | 28         | 6988     | 0.028     | 28       | 6988     | 0.059     |
| 14:00 - 15:00 | 28       | 6988     | 0.029     | 28         | 6988     | 0.036     | 28       | 6988     | 0.065     |
| 15:00 - 16:00 | 28       | 6988     | 0.029     | 28         | 6988     | 0.030     | 28       | 6988     | 0.059     |
| 16:00 - 17:00 | 28       | 6988     | 0.018     | 28         | 6988     | 0.020     | 28       | 6988     | 0.038     |
| 17:00 - 18:00 | 28       | 6988     | 0.007     | 28         | 6988     | 0.014     | 28       | 6988     | 0.021     |
| 18:00 - 19:00 | 28       | 6988     | 0.002     | 28         | 6988     | 0.005     | 28       | 6988     | 0.007     |
| 19:00 - 20:00 | 9        | 8321     | 0.003     | 9          | 8321     | 0.005     | 9        | 8321     | 0.008     |
| 20:00 - 21:00 | 9        | 8321     | 0.005     | 9          | 8321     | 0.000     | 9        | 8321     | 0.005     |
| 21:00 - 22:00 |          |          |           |            |          |           |          |          |           |
| 22:00 - 23:00 |          |          |           |            |          |           |          |          |           |
| 23:00 - 24:00 |          |          |           |            |          |           |          |          |           |
| Total Rates:  |          |          | 0.315     |            |          | 0.314     |          |          | 0.629     |

*This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.*

*To obtain a trip rate, the average (mean) trip rate parameter value (TRP) is first calculated for all selected survey days that have count data available for the stated time period. The average (mean) number of arrivals, departures or totals (whichever applies) is also calculated (COUNT) for all selected survey days that have count data available for the stated time period. Then, the average count is divided by the average trip rate parameter value, and multiplied by the stated calculation factor (shown just above the table and abbreviated here as FACT). So, the method is: COUNT/TRP\*FACT. Trip rates are then rounded to 3 decimal places.*



keep up with mode:



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