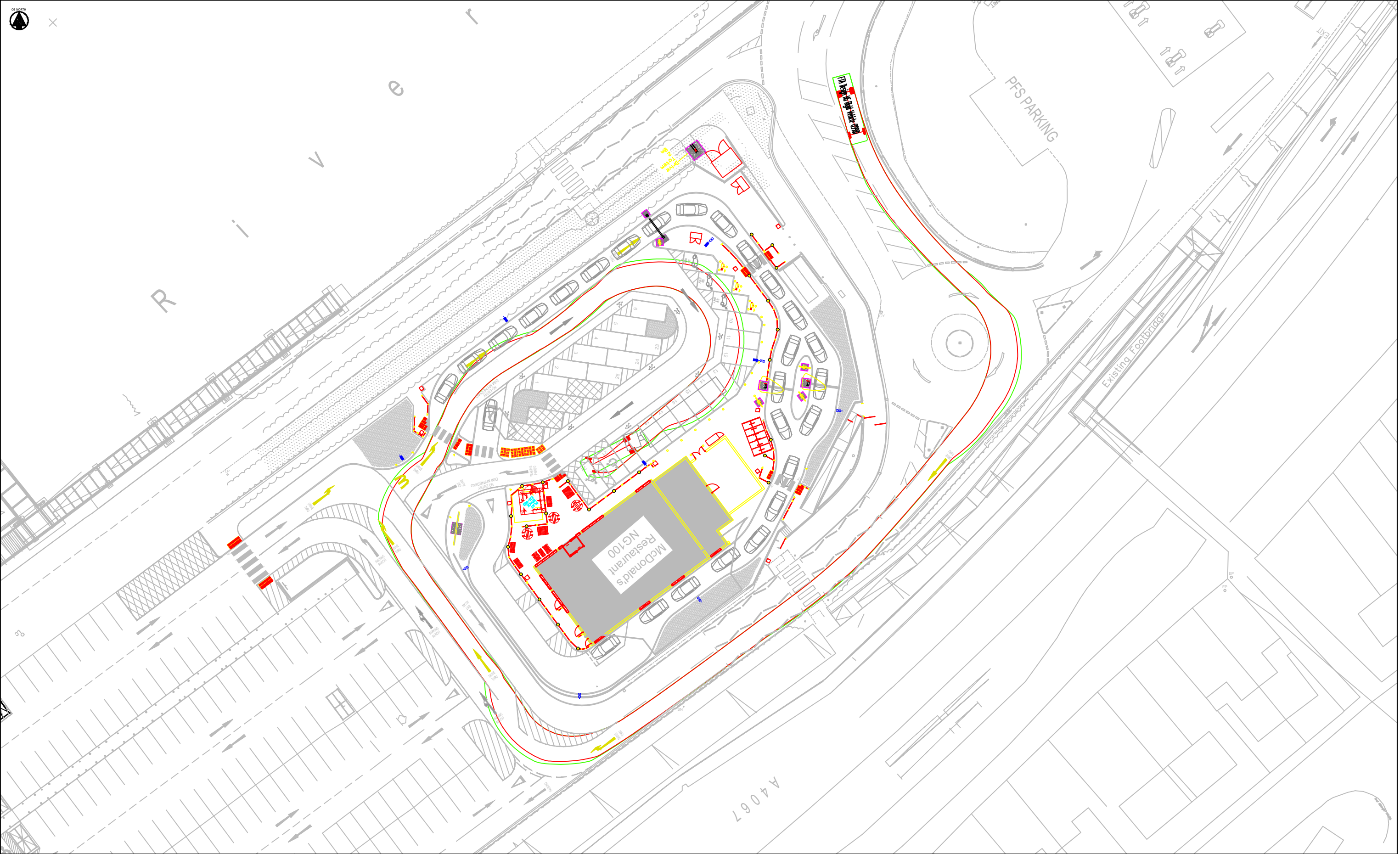


# Appendix I Swept Path Analysis – 10m Rigid Goods Vehicle



VEHICLE MODELS USED IN SWEEP PATH ANALYSIS

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

NOTES (CONTINUED)

REVISIONS (CONTINUED)

| REVISIONS           |                     |          |                       |          |                                |
|---------------------|---------------------|----------|-----------------------|----------|--------------------------------|
| SITE LAYOUT UPDATED |                     |          |                       |          |                                |
| PO2                 | ISSUED BY: P.VOOGHT | 22/09/23 | DESIGNED BY: L.KEENAN | 22/09/23 | APPROVED BY: L.KEENAN 22/09/23 |
| FIRST ISSUE         |                     |          |                       |          |                                |
| PO1                 | ISSUED BY: S.RAHI   | 30/08/23 | DESIGNED BY: L.KEENAN | 30/08/23 | APPROVED BY: L.KEENAN 30/08/23 |

MERCHANTS' HOUSE NORTH  
WAPPING ROAD  
BRISTOL  
BS1 4RW  
t: (0117) 9459 225  
e: bristol@hydrock.com

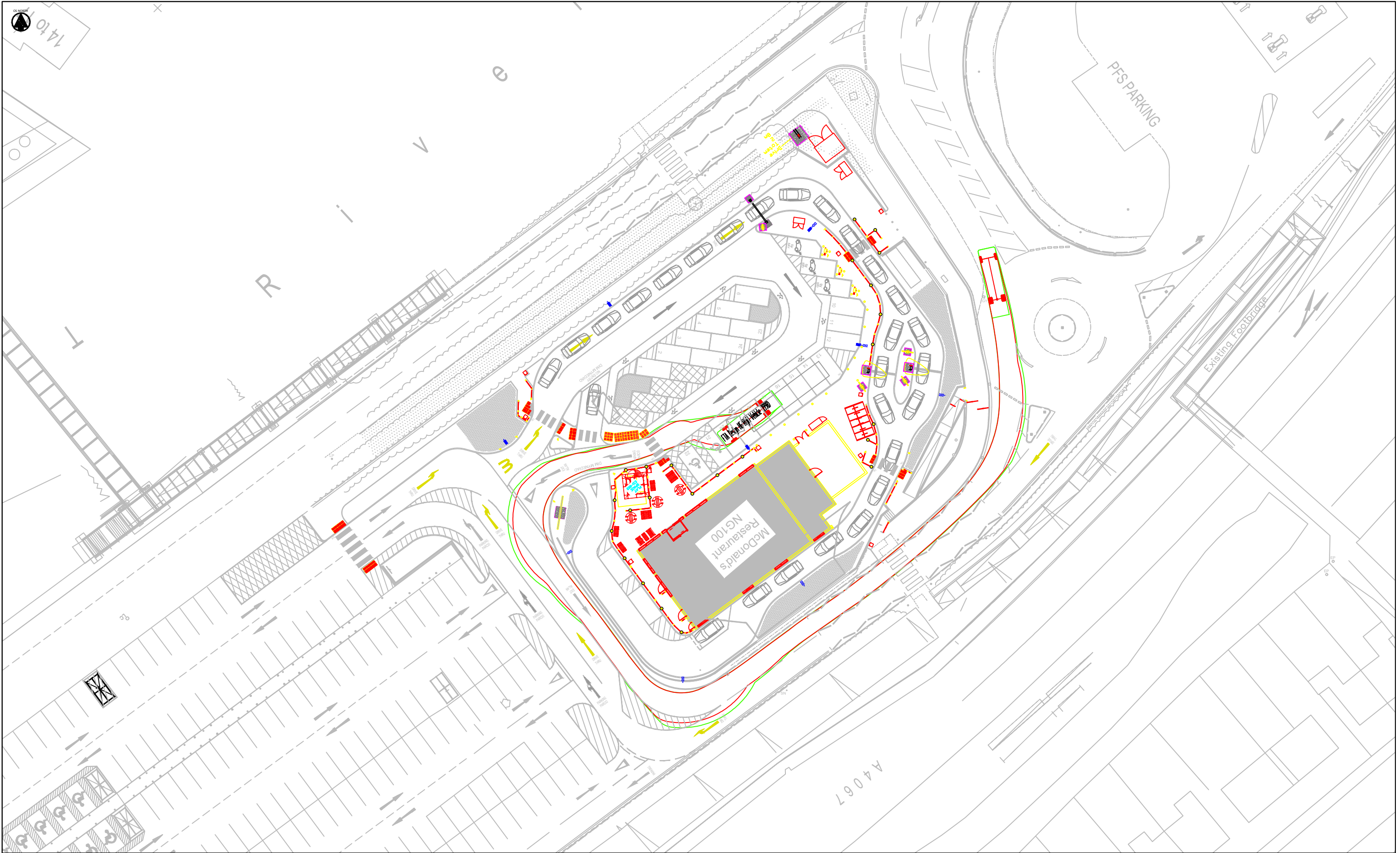
CLIENT

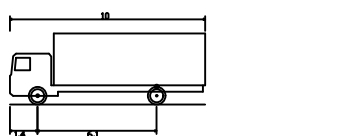
MCDONALDS RESTAURANTS

PROJECT

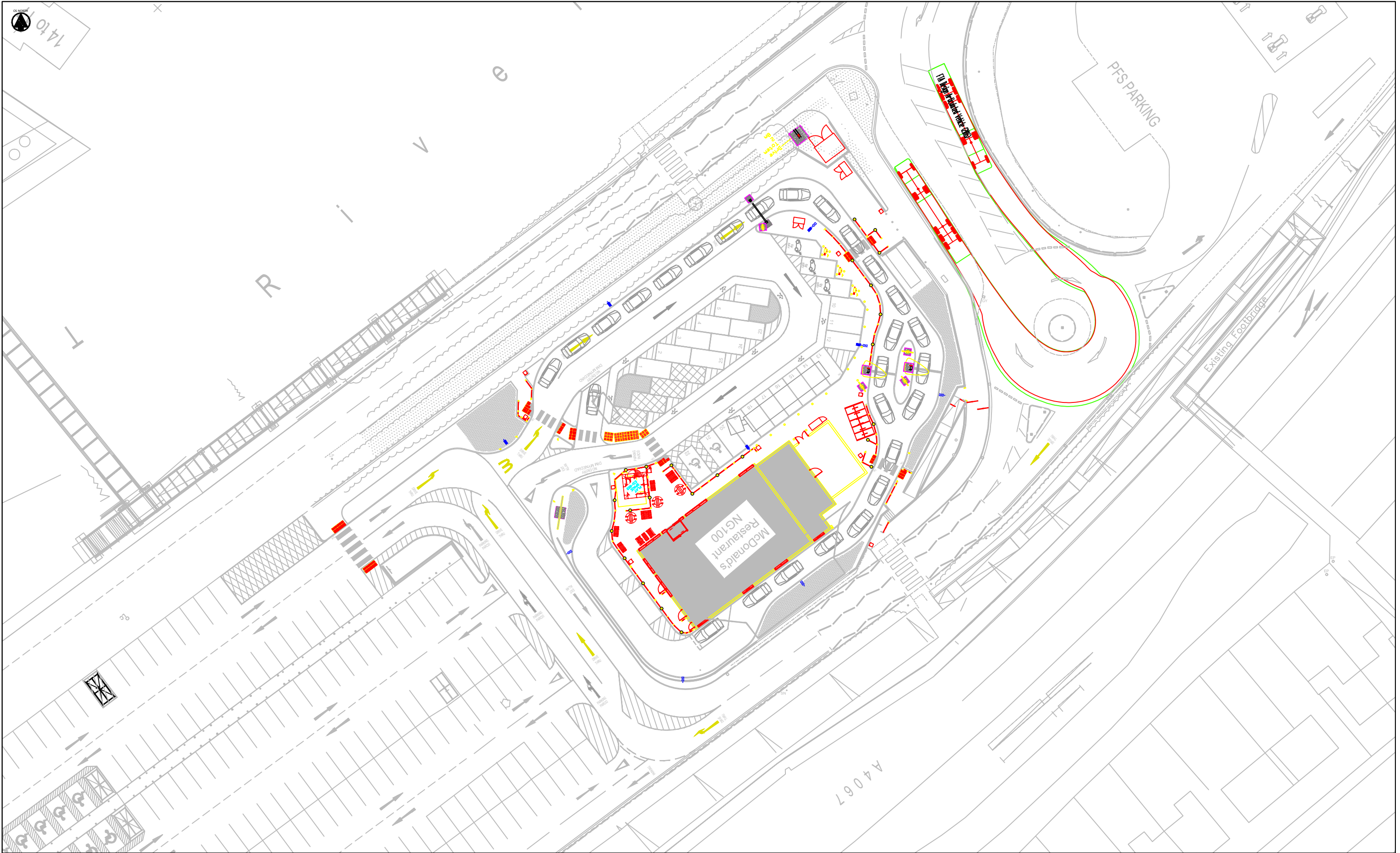
SWEPT PATH ANALYSIS OF FTA DESIGN 10M HG RIGID VEHICLE (1998) - ENTRY MANOEUVRE

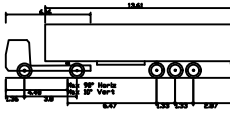
|                                                                   |            |
|-------------------------------------------------------------------|------------|
| HYDROCK PROJECT NO.                                               | SCALE @ A3 |
| 15297                                                             | 1:500      |
| STATUS DESCRIPTION                                                | STATUS     |
| FOR PLANNING                                                      | S4         |
| DRAWING NO. (PROJECT CODE-ORIGINATOR-ZONE-LEVEL-TYPE-ROLE-NUMBER) | REVISION   |
| 15297-HYD-XX-XX-DR-TP-0305                                        | P02        |



|                                                                                                                                                                                                                                                                                                                                                                                                  |  |       |  |                   |  |                       |  |           |  |                                                                                                                                                                                                                                                               |  |                                                                                   |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------|--|-------------------|--|-----------------------|--|-----------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------|--|
| <p>VEHICLE MODELS USED IN SWEEP PATH ANALYSIS</p>  <p>FTA Design HG Rigid Vehicle (1998)<br/>Overall Length 10.000m<br/>Overall Width 2.500m<br/>Overall Body Height 3.645m<br/>Min Body Ground Clearance 0.440m<br/>Track Width 2.470m<br/>Lock to lock time 3.00s<br/>Kerb to kerb Turning Radius 11.00m</p> |  | NOTES |  | NOTES (CONTINUED) |  | REVISIONS (CONTINUED) |  | REVISIONS |  | <div><div>Hydrock</div><div>MERCHANTS' HOUSE NORTH<br/>WAPPING ROAD<br/>BRISTOL<br/>BS1 4RW<br/>t: (0117) 9459 225<br/>e: bristol@hydrock.com</div></div> <div>CLIENT<br/>MCDONALDS RESTAURANTS<br/>PROJECT</div> <div>PROJECT<br/>MCDONALDS PONTARDAWE</div> |  | SWEEP PATH ANALYSIS OF FTA DESIGN 10M<br>HG RIGID VEHICLE (1998) - EXIT MANOEUVRE |  |
|                                                                                                                                                                                                                                                                                                                                                                                                  |  |       |  |                   |  |                       |  |           |  | HYDROCK PROJECT NO.<br>15297                                                                                                                                                                                                                                  |  | SCALE @ A3<br>1:500                                                               |  |
|                                                                                                                                                                                                                                                                                                                                                                                                  |  |       |  |                   |  |                       |  |           |  | STATUS DESCRIPTION<br>FOR PLANNING                                                                                                                                                                                                                            |  | STATUS<br>S4                                                                      |  |
|                                                                                                                                                                                                                                                                                                                                                                                                  |  |       |  |                   |  |                       |  |           |  | DRAWING NO. (PROJECT CODE-ORIGINATOR-ZONE-LEVEL-TYPE-ROLE-NUMBER)<br>15297-HYD-XX-XX-DR-TP-0306                                                                                                                                                               |  | REVISION<br>P02                                                                   |  |

# Appendix J Alternative Servicing Arrangement Option



|                                                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |                       |  |  |  |  |  |  |  |  |  |           |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                              |  |  |  |  |  |  |  |  |  |                                                                                                       |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  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| <div><p>FTA Design Articulated Vehicle (2016)<br/>Overall Length 16.5m<br/>Overall Width 2.5m<br/>Max. Body Height 3.8m<br/>Max. Body Ground Clearance 2.3m<br/>Lock to lock time 2.0s<br/>Kerb to Kerb Turning Radius 6.00m</p></div> |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |                       |  |  |  |  |  |  |  |  |  |           |  |  |  |  |  |  |  |  |  | <div><div>MERCHANTS' HOUSE NORTH<br/>WAPPING ROAD<br/>BRISTOL<br/>BS1 4RW<br/>t: (0117) 9459 225<br/>e: bristol@hydrock.com</div></div> |  |  |  |  |  |  |  |  |  |                                                                                                       |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  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|  |  |  |  | APPROVED BY |  |  |  |  |  |  |  |  |  | 22/09/23 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  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# Appendix K Delivery and Servicing Management Plan



# McDonald's Pontardawe Delivery and Servicing Management Plan

*For McDonald's Restaurants Ltd*

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Date: 31 August 2023

Doc ref: 15297-HYD-XX-XX-RP-TP-0001-P02

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# 1. INTRODUCTION

## 1.1 Overview

- 1.1.1 Hydrock has been appointed by McDonald's Restaurants Ltd to prepare this Delivery and Servicing Management Plan in support of a planning application for the proposed McDonald's Restaurant with a drive-thru facility on part of the existing Tesco car park in Pontardawe, to the north-east of Swansea.

## 1.2 Site Location

- 1.2.1 The site is located 600m to the south of Pontardawe town centre and 12.5km north-east of Swansea city centre.
- 1.2.2 The site is located within the existing car park of a Tesco Superstore (with an associated Petrol Filling Station). The site is bound by the River Tawe to the north-west, the A4067 to the south-east, a Tesco Petrol Filling Station to the north-east and Tesco Superstore parking to the south-west. The location of the site in its local context is shown in Figure 1.1.



Figure 1.1: Site Location

- 1.2.3 Vehicular access to the site is provided via the A4067 roundabout to the north-east of the site. The roundabout offers a connection to the Tesco access road, which links to the internal site car park and roundabout with the foodstore and its petrol filling station.
- 1.2.4 There are multiple points of pedestrian access into the existing site. Pedestrian access can be taken directly from the site access road which connects to the A4067 roundabout to the north-east.

Alternatively, pedestrian access to the site is offered via a footbridge over the A4067 from Lon Tanyrallt to the east or via a footbridge over the River Tawe connecting to a footpath on the river's northern bank. Both footbridges are suitable for access for people with disabilities, with flat terrain and ramped entrance/exit points.

## 2. PROPOSED SITE LAYOUT AND PARKING PROVISION

### 2.1 Site Layout

2.1.1 A copy of the proposed site layout is attached as Appendix A. The restaurant will have a parking provision of:

- 23 standard customer spaces
- 2 accessible spaces
- 2 operational drive-thru spaces
- 4 staff spaces
- 31 total spaces

2.1.2 The development site will also provide a 'commercial' space for servicing operations. This is provided by utilising proposed car parking within the site car park and will be managed operationally by McDonald's during servicing activities. This will take place outside of operational and road network peak hours.

### 2.2 Management of McDonald's Car Parking

2.2.1 The McDonald's car park will be exclusively for restaurant customers and is managed by the store.

### 2.3 Deliveries

2.3.1 Servicing McDonald's restaurants while they are open is normal practice and does not present any operational difficulties.

2.3.2 As noted subsequently in Section 3.1.1, the restaurant is notified of its delivery slot two days before, and then notified again, when the delivery vehicle is 30 minutes away from the restaurant.

2.3.3 On delivery days, staff will cone off spaces needed by the delivery vehicle for manoeuvring and offloading. In this way, the site is ready for the arrival of the delivery vehicle, whilst still allowing the remaining parking spaces and drive thru lane to operate.

### 3. DELIVERY OVERVIEW

#### 3.1 Extent of McDonald's Servicing Experience

- 3.1.1 McDonald's has been trading in the UK since 1974. The company operates over 1,300 fast service restaurants of which around 880 are restaurants with drive thru facilities.
- 3.1.2 Servicing McDonald's restaurants while they are open is normal practice and does not present any operational difficulties.
- 3.1.3 Based on information provided by McDonald's drive thru facilities, each restaurant is typically serviced 3 times per week, this is equivalent to 2,640 deliveries per week or 377 per day (7-day week).

#### 3.2 Health and Safety Policy and Review Process

- 3.2.1 As part of their on-going Health & Safety processes, every McDonald's store has a detailed manual covering the running of the restaurant. This includes receiving deliveries and provides generic details applicable to all restaurants. In addition to this, every restaurant has a further site-specific risk assessment undertaken which includes details relating to:
  - Obstructions
  - Long trolley distances
  - Using customer areas during deliveries (either in-store, or within the car park)
- 3.2.2 The Health and Safety Policy is reviewed annually and any staff who assist with receiving deliveries at the store are provided with specific detailed and documented training. When a delivery occurs, a minimum of two staff will assist with the storage of goods however this can be increased for a particularly large delivery or if the weather is especially hot, or inclement. All staff (and delivery drivers) wear high visibility clothing when taking part in deliveries, to ensure visibility to traffic and customers within the car park.
- 3.2.3 Any customers using the restaurant during delivery periods will be alerted to the additional activity occurring in the car park due to:
  - The presence of staff in hi-vis clothing
  - The presence of the McDonald's branded delivery truck in the car park
- 3.2.4 Health and safety of both staff and customers during deliveries is an important and integral aspect of McDonald's delivery management across all their restaurants.

#### 3.3 Servicing Contractor and Vehicle Details

- 3.3.1 Martin Brower UK (MBUK) are McDonald's sole distributor for all of its products in mainland Britain and has a delivery fleet of over 150 vehicles. In addition to McDonald's own policy and risk assessment, MBUK also continuously reviews each site in line with their own Health & Safety policies.
- 3.3.2 MBUK continually review and optimise their routes and schedules and will on occasions change the delivery window that a store has been assigned.
- 3.3.3 Goods are generally delivered by articulated lorry, up to 16.5m in length. Larger vehicles are used to enable more stores to be serviced in a single trip, reducing the frequency of returns to the supply

centre, distance travelled and carbon emissions. However, the fleet also includes smaller vehicles including rigid trucks and short wheelbase articulated vehicles for sites where constraints require it.

- 3.3.4 Multi temperature vehicles are used which allows all of the restaurant's requirements of frozen, chilled and ambient products to be delivered in one visit, reducing the overall number of deliveries each restaurant receives and further reducing carbon emissions. Goods are stored within wheeled cages to minimise the number of shuttles between the delivery lorry and the restaurant, as opposed to individual boxes being carried.
- 3.3.5 Cooking oil from restaurants is recycled into bio diesel. The bio diesel is used as fuel by all McDonald's delivery vehicles and results in a carbon saving of 8,200 tonnes per annum. The new cooking oil is delivered by the delivery lorry along with all other McDonald's products. The used oil is stored by the restaurant and collected by the same vehicle along with all other crates and materials to be recycled.

### 3.4 Martin Brower (Reliability)

- 3.4.1 Despite outlining a detailed methodology above, the question is sometimes raised as to how reliable deliveries to the restaurants are.
- 3.4.2 The MBUK Hemel Hempstead Distribution Centre carried out 89,382 deliveries in 2015 and they recorded that only 2% of deliveries were late due to traffic delays.
- 3.4.3 In the event of an unexpected delay, drivers will contact the operations office of their distribution centre and report the delay. The operations office team and/or customer service team will contact the restaurant immediately and advise them of the delay and a new estimated time of arrival.
- 3.4.4 This notification is recorded on the customer service system (Salesforce) for their records.

### 3.5 Driver Scheduling

- 3.5.1 Each restaurant is set a fixed delivery day and window that range from early AM to late PM. This means that different rotas will cover different delivery days and times.
- 3.5.2 Each new driver undergoes a rigorous eight-day training and selection process before becoming an MBUK delivery driver. All drivers are required to undergo an annual assessment and a minimum of 1 day driver CPC (certificate of professional competence) training to remain an MBUK driver.
- 3.5.3 In addition, all MBUK vehicles are fitted with vehicle telematics that reads information directly from the vehicles CANbus (internal computer system). This system records and measures all of the vehicle's activities and the individual driver's performance. This is monitored by the operations teams, live throughout the day.

## 4. MCDONALD'S SERVICING PROCEDURE

### 4.1 Servicing Frequency, Timing and Duration

- 4.1.1 Deliveries will occur three times per week. The vehicle parks for between 15 minutes and 1 hour within the 2-hour delivery slot depending on the range and quantity of products being delivered.

### 4.2 Paragon

- 4.2.1 Martin Brower uses a sophisticated computerised planning tool (Paragon) which enables the requirements for an individual delivery destination to be set and ensures that they are compiled on every occasion the delivery is planned.
- 4.2.2 Notification of the delivery time is emailed to the restaurant two days before the delivery. The restaurant will be allocated a 2-hour delivery planning window and the delivery will be planned within this slot. In practice however, most restaurants receive their deliveries at the same time on the same days each week.
- 4.2.3 On the day of the delivery, the GPS system linked to Paragon will automatically email the restaurant 30-minutes prior to the vehicles arrival.
- 4.2.4 Through this process of prior assessment and notification, Martin Brower and McDonald's are able to notify the restaurant of an accurate arrival time and ensure that measures required within the parking area to accommodate the delivery vehicles are employed in good time prior to the delivery arrival.

### 4.3 Refuse Collection and Recycling

- 4.3.1 Waste minimisation and recycling are promoted.
- 4.3.2 Waste minimisation has been achieved through the redesign of tray liners and specifying the use of light-weight bin liners. Food wastage is minimised through the use of a computer system which monitors the amount of food served at given times of day, resulting in more accurate preparation and ordering of stock. This therefore, reduces the quantum of waste and frequency of collection required.
- 4.3.3 Service vehicles also collect empty delivery trays and crates which are returned to suppliers for re-use.
- 4.3.4 Refuse is collected by a private contractor two times per week

### 4.4 Vehicle Delivery Procedures and Noise

- 4.4.1 When the vehicle arrives on site the engine is switched off, but the chiller and freezer still operate. If it is a requirement, then the chiller and freezer can be switched off upon arrival at site, however, this is not anticipated to be necessary at Pontardawe.
- 4.4.2 During the unloading of the cages from the vehicles, chiller and freezers are switched off.
- 4.4.3 During any reversing, goods vehicles emit a warning sound. The reversing warning fitted to MBUK vehicles, is a 'white noise' warning, which allows everybody in the immediate area of the vehicle to hear the warning, but the noise does not travel like a "beeper", which reduces noise pollution.

### 4.5 Driver Responsibility

- 4.5.1 The drivers are solely responsible for checking and ensuring that the vehicle movements do not come into conflict with any other vehicles, staff or pedestrians.

## 4.6 McDonald's Staff

- 4.6.1 McDonald's allocate a minimum of two staff to be on site and available to assist with deliveries. These staff have completed McDonald's Health and Safety Training.
- 4.6.2 Restaurant staff are on site and use cones to delineate spaces for deliveries. Once on the tarmac, they wheel the cages to the restaurant.

## 4.7 Summary

- 4.7.1 The above forms a 'tried and tested' methodology which is successfully implemented throughout the country and there is no reason that this system could not be successfully implemented at the proposed restaurant.

## 5. SERVICING PLAN: MCDONALD'S PONTARDAWE

### 5.1 Servicing Procedure: McDonald's Pontardawe

- 5.1.1 The McDonald's Pontardawe Restaurant will be serviced 3 times per week by 16.5m articulated vehicle. The restaurant will be assigned its 2-hour delivery slots set by Martin Brower within the conditioned servicing hours.
- 5.1.2 Vehicular access to the site will be provided from the wider highway network via the existing established Tesco Superstore arm of the A4067 roundabout. Delivery vehicles will route to the site via the Tesco access road and an additional roundabout junction with Tesco Fuel Station. Vehicles will route into Tesco car park where access to the site can be gained on the site's western boundary. Delivery vehicles will arrive and depart via the site's access/egress in a forward gear.
- 5.1.3 On receipt of the email from Martin Brower (30 minutes prior to delivery vehicle arrival) staff cordon any spaces required for unloading and manoeuvring.
- 5.1.4 When the delivery vehicle arrives, restaurant staff in high visibility clothing act as marshalls within the car park whilst the vehicle manoeuvres and parks.
- 5.1.5 Goods are trollyed from the delivery vehicle to the service entrance of the store at the rear of the building.
- 5.1.6 Once the delivery is complete the vehicle leaves the site in a forward gear.

### 5.2 Prior to Arrival: Parking

- 5.2.1 As deliveries occur outside of the operational peak periods, spaces are cleared within the car park to allow room for the delivery vehicle to offload goods. This has no operational impact and is in keeping with all UK freestanding McDonald's restaurants.
- 5.2.2 Appendix B shows the parking spaces which are required to be coned off by the restaurant staff prior to the delivery vehicle arriving. Appendix C details the swept path analysis for a 16.5m HGV arriving and departing the site.
- 5.2.3 In total, 16 parking spaces are used, as follows:

Table 5.1: Parking Spaces Used for Deliveries

| Affected Spaces                     | Arrive | Parked | Depart |
|-------------------------------------|--------|--------|--------|
| 6 Standard Spaces – Eastern Spaces  | ✓      |        |        |
| 8 Standard Spaces – Southern Spaces | ✓      | ✓      | ✓      |
| 2 Accessible Spaces                 | ✓      | ✓      | ✓      |
| Total of 16 Spaces                  |        |        |        |

### 5.3 Refuse Collection

- 5.3.1 Bins would be stored in a storage facility positioned close to the rear of the building. Bins would be wheeled to the vehicle by refuse operatives.
- 5.3.2 Restaurants make their own arrangements with refuse contractors, although increasingly a large amount of recyclable waste is backhauled by Martin Brower for central recycling and processing.
- 5.3.3 Refuse collections will occur during quiet trading periods twice per week.

- 5.3.4 Refuse collections are planned to avoid coinciding with deliveries
- 5.3.5 Appendix D shows the refuse vehicle entering the site and parking, in the collection position, and exiting the site after collections were completed. There will be no parking bays affected by the refuse collections.

## 6. SUMMARY AND CONCLUSIONS

### 6.1 Deliveries

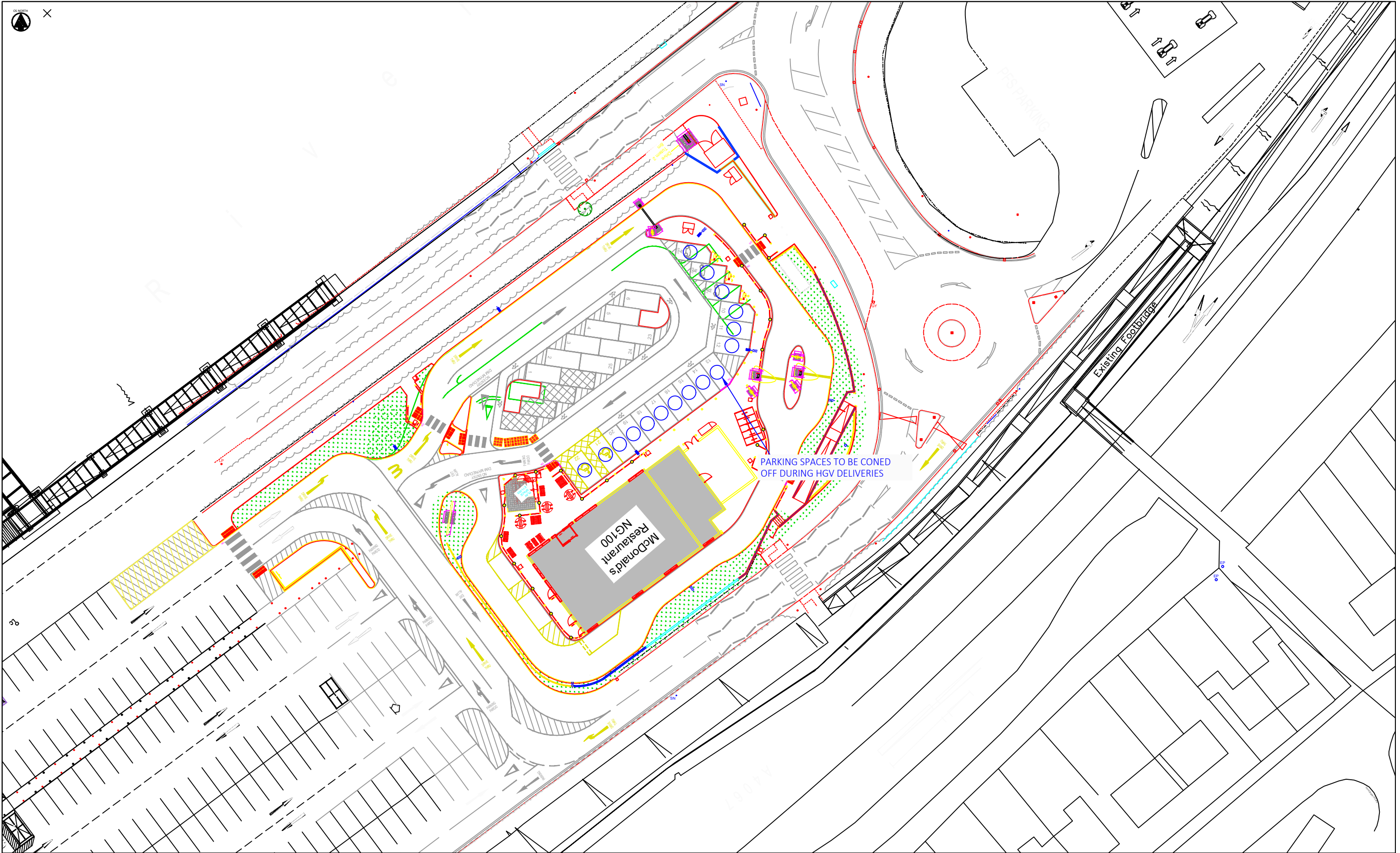
- 6.1.1 McDonald's and Martin Brower have extensive experience of undertaking deliveries at McDonald's drive thru restaurants, whilst they are open and this presents no operational difficulties.
- 6.1.2 Health and Safety is an important aspect of McDonald's delivery management and is subject to a regular review process.
- 6.1.3 The implementation of this Delivery Management Plan is seen as a contribution to the successful operation of the new restaurant and demonstrates the planning and management, to provide safe and efficient servicing from within the customer car park during the permitted hours.
- 6.1.4 The arrangements described in this Delivery Management Plan follow 'tried and tested' methodology used successfully across the UK which will now include Pontardawe.

### 6.2 Conclusions

- 6.2.1 This report has shown the McDonald's Restaurants Ltd are experienced in managing deliveries and refuse at their stores. Likewise, their logistics partner Martin Brower is also experienced at dealing with deliveries to McDonald's customer car parks.
- 6.2.2 Staff are trained in receiving deliveries and managing customers and their vehicles before and during deliveries.
- 6.2.3 In conclusion therefore, this document confirms the good practice already employed widely at McDonald's restaurants which will also be utilised at Pontardawe.

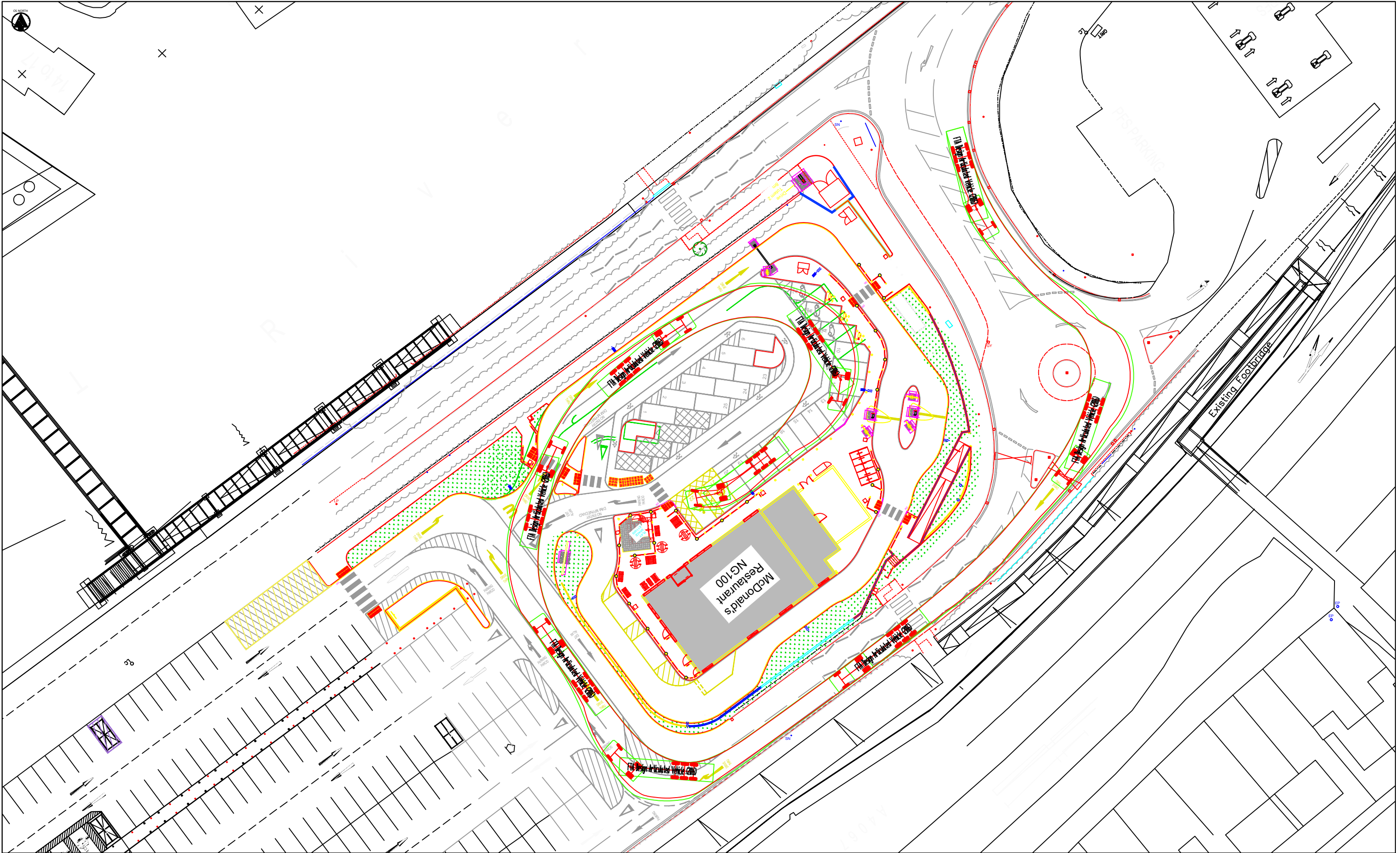
# Appendix A   Site Layout

# Appendix B   Spaces to Cone Off



|                                                                                                     |                      |                   |                       |                                                                                                 |                                                                                                                                                                                                                  |                                                      |  |  |                     |  |  |
|-----------------------------------------------------------------------------------------------------|----------------------|-------------------|-----------------------|-------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|--|--|---------------------|--|--|
| <div>KEY</div> <div><div></div><div>PARKING SPACE TO BE CONED OFF DURING HGV DELIVERIES</div></div> | NOTES                | NOTES (CONTINUED) | REVISIONS (CONTINUED) | REVISIONS                                                                                       | <div><div><div>Hydrock</div><div><div><div></div><div></div></div><div>MERCHANTS' HOUSE NORTH<br/>WAPPING ROAD<br/>BRISTOL<br/>BS1 4RW<br/>t: (0117) 9459 225<br/>e: bristol@hydrock.com</div></div></div></div> | PARKING SPACES TO BE CONED OFF DURING HGV DELIVERIES |  |  |                     |  |  |
|                                                                                                     |                      |                   |                       |                                                                                                 | CLIENT                                                                                                                                                                                                           | HYDROCK PROJECT NO.<br>15297                         |  |  | SCALE @ A3<br>1:500 |  |  |
|                                                                                                     |                      |                   |                       |                                                                                                 | PROJECT                                                                                                                                                                                                          |                                                      |  |  |                     |  |  |
|                                                                                                     |                      |                   |                       |                                                                                                 | MCDONALDS RESTAURANTS                                                                                                                                                                                            | STATUS DESCRIPTION<br>FOR PLANNING                   |  |  | STATUS<br>S4        |  |  |
|                                                                                                     |                      |                   |                       |                                                                                                 | PROJECT                                                                                                                                                                                                          |                                                      |  |  |                     |  |  |
| PROJECT                                                                                             | MCDONALDS PONTARDAWE |                   |                       | DRAWING NO. (PROJECT CODE-ORIGINATOR-ZONE-LEVEL-TYPE-ROLE-NUMBER)<br>15297-HYD-XX-XX-DR-TP-0002 |                                                                                                                                                                                                                  |                                                      |  |  |                     |  |  |

## Appendix C Delivery Swept Path Analysis



VEHICLE MODELS USED IN SWEEP PATH ANALYSIS

FTA Design Articulated Vehicle (2016)  
Overall Length 15.48m  
Overall Width 2.50m  
Overall Body Height 3.87m  
Min Body Ground Clearance 0.15m  
Max Track Width 2.47m  
Lock to lock time 3.00s  
Kerb to Kerb Turning Radius 6.60m

NOTES

NOTES (CONTINUED)

REVISIONS (CONTINUED)

| REVISIONS |                     |          |             |          |          |
|-----------|---------------------|----------|-------------|----------|----------|
| P05       | SITE LAYOUT UPDATED |          |             |          |          |
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| P04       | SITE LAYOUT UPDATED |          |             |          |          |
|           | DESIGNED BY         | 14/12/22 | DESIGNED BY | 14/12/22 | 14/12/22 |
| P03       | SITE LAYOUT UPDATED |          |             |          |          |
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| P02       | SECOND ISSUE        |          |             |          |          |
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CLIENT

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PROJECT

MCDONALDS PONTARDAWE

SWEEP PATH ANALYSIS OF FTA DESIGN  
ARTICULATED HGV - ENTRY MANOEUVRE

HYDROCK PROJECT NO.  
15297

SCALE @ A3  
1:500

STATUS DESCRIPTION

FOR PLANNING

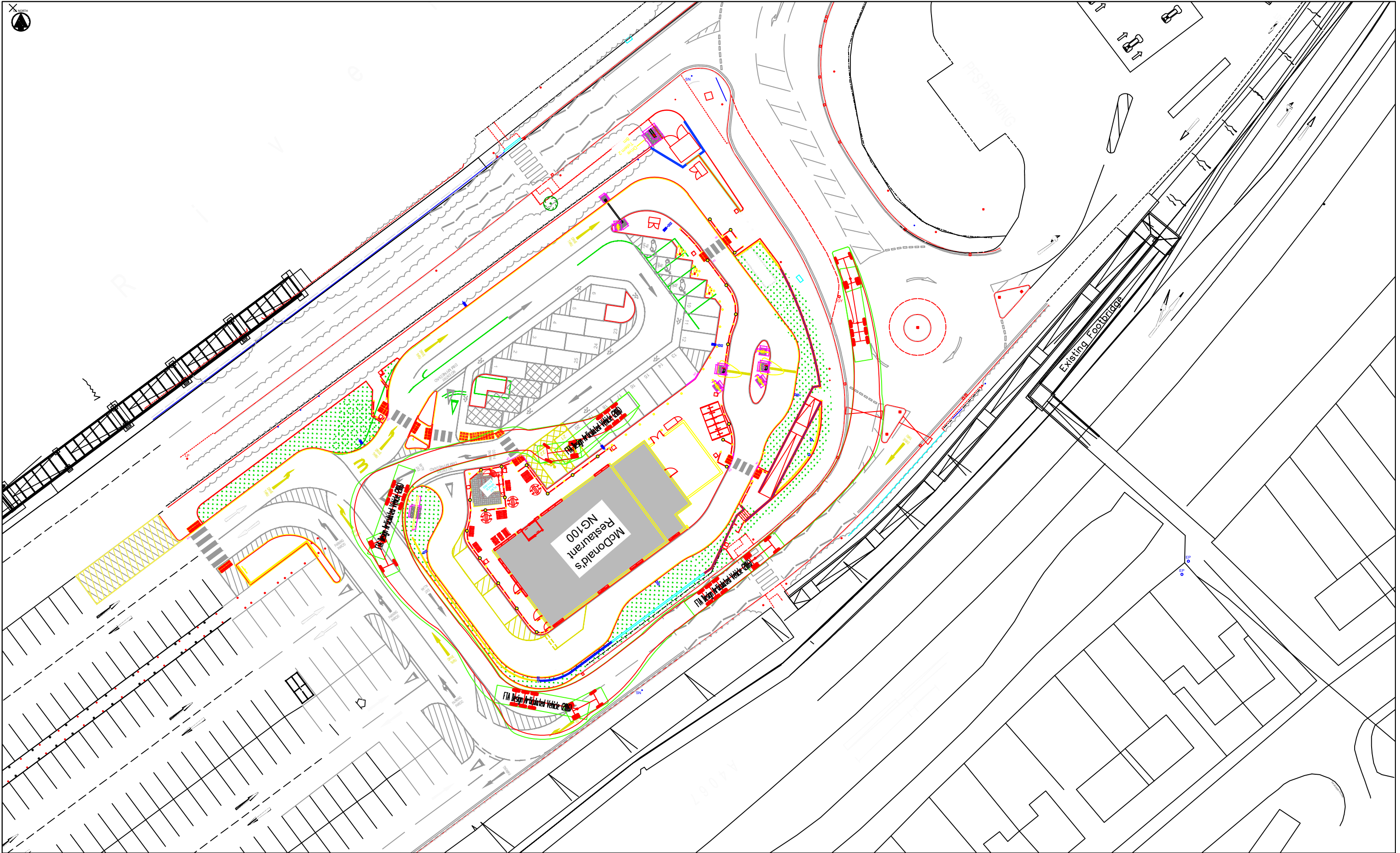
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15297-HYD-XX-XX-DR-TP-0301

STATUS

S4

REVISION

P05



VEHICLE MODELS USED IN SWEEP PATH ANALYSIS

FTA Design Articulated Vehicle (2016)  
Overall Length 16.480m  
Overall Width 2.500m  
Overall Body Height 3.870m  
Min Body Ground Clearance 0.515m  
Max Track Width 2.470m  
Lock to lock time 3.00s  
Kerb to Kerb Turning Radius 6.600m

NOTES

NOTES (CONTINUED)

REVISIONS (CONTINUED)

| REVISIONS |                      |          |                          |          |                                |
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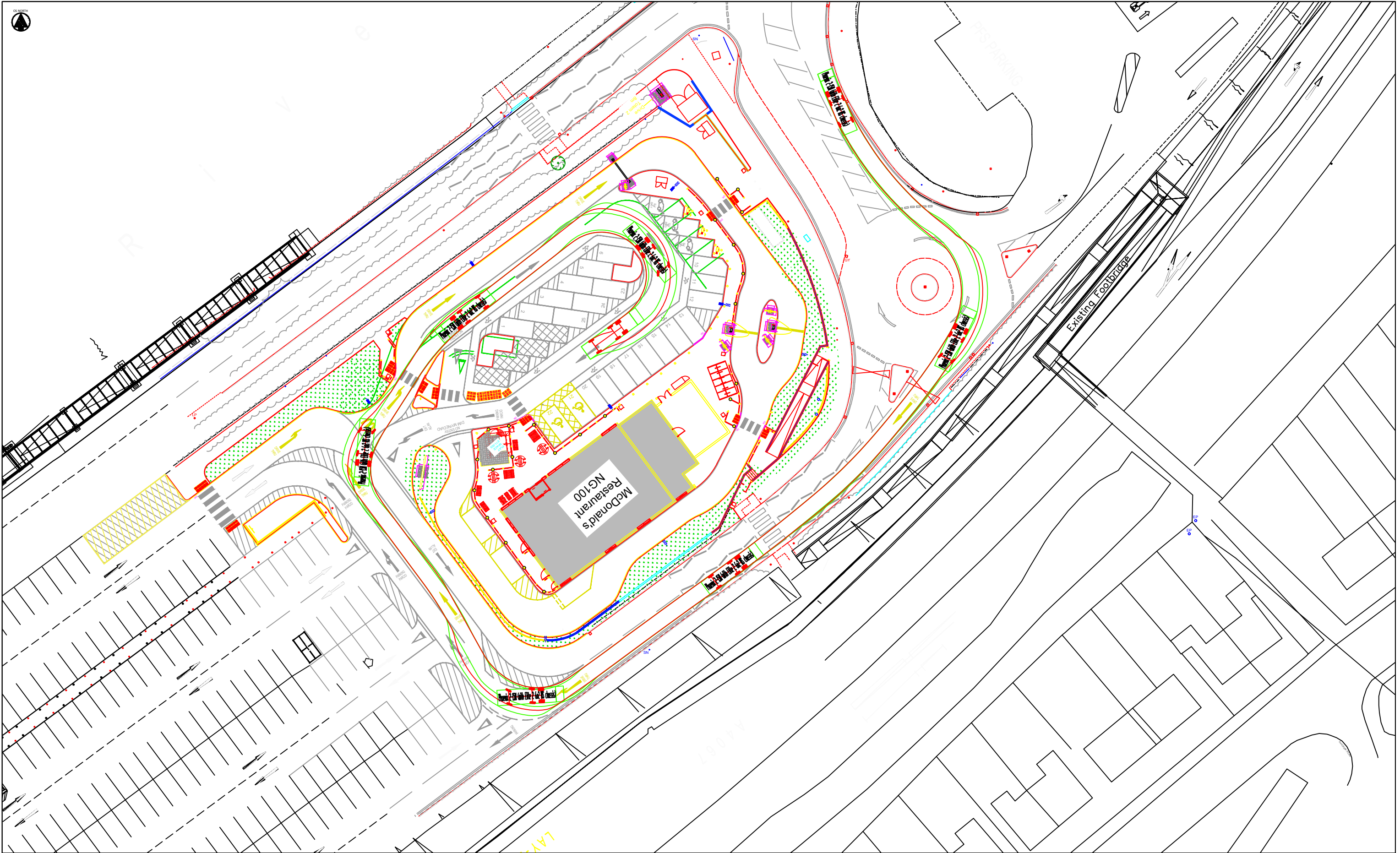
PROJECT

MCDONALDS PONTARDAWE

SWEEP PATH ANALYSIS OF FTA DESIGN  
ARTICULATED HGV - EXIT MANOEUVRE

|                                                                   |            |
|-------------------------------------------------------------------|------------|
| HYDROCK PROJECT NO.                                               | SCALE @ A3 |
| 15297                                                             | 1:500      |
| STATUS DESCRIPTION                                                | STATUS     |
| FOR PLANNING                                                      | S4         |
| DRAWING NO. (PROJECT CODE-ORIGINATOR-ZONE-LEVEL-TYPE-ROLE-NUMBER) | REVISION   |
| 15297-HYD-XX-XX-DR-TP-0302                                        | P05        |

## Appendix D Refuse Swept Path Analysis



VEHICLE MODELS USED IN SWEEP PATH ANALYSIS

Phoenix 2-15N (with Elite 2 6x2 MS chassis)  
Overall Length 9.595m  
Overall Width 2.230m  
Overall Body Height 3.699m  
Min Body Ground Clearance 0.251m  
Track Width 2.200m  
Lock to lock time 4.00s  
Kerb to Kerb Turning Radius 9.300m

NOTES

NOTES (CONTINUED)

REVISIONS (CONTINUED)

| REVISIONS |                      |          |                          |          |                                |
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SWEEP PATH ANALYSIS OF REFUSE  
COLLECTION VEHICLE - ENTRY MANOEUVRE

HYDROCK PROJECT NO.  
15297

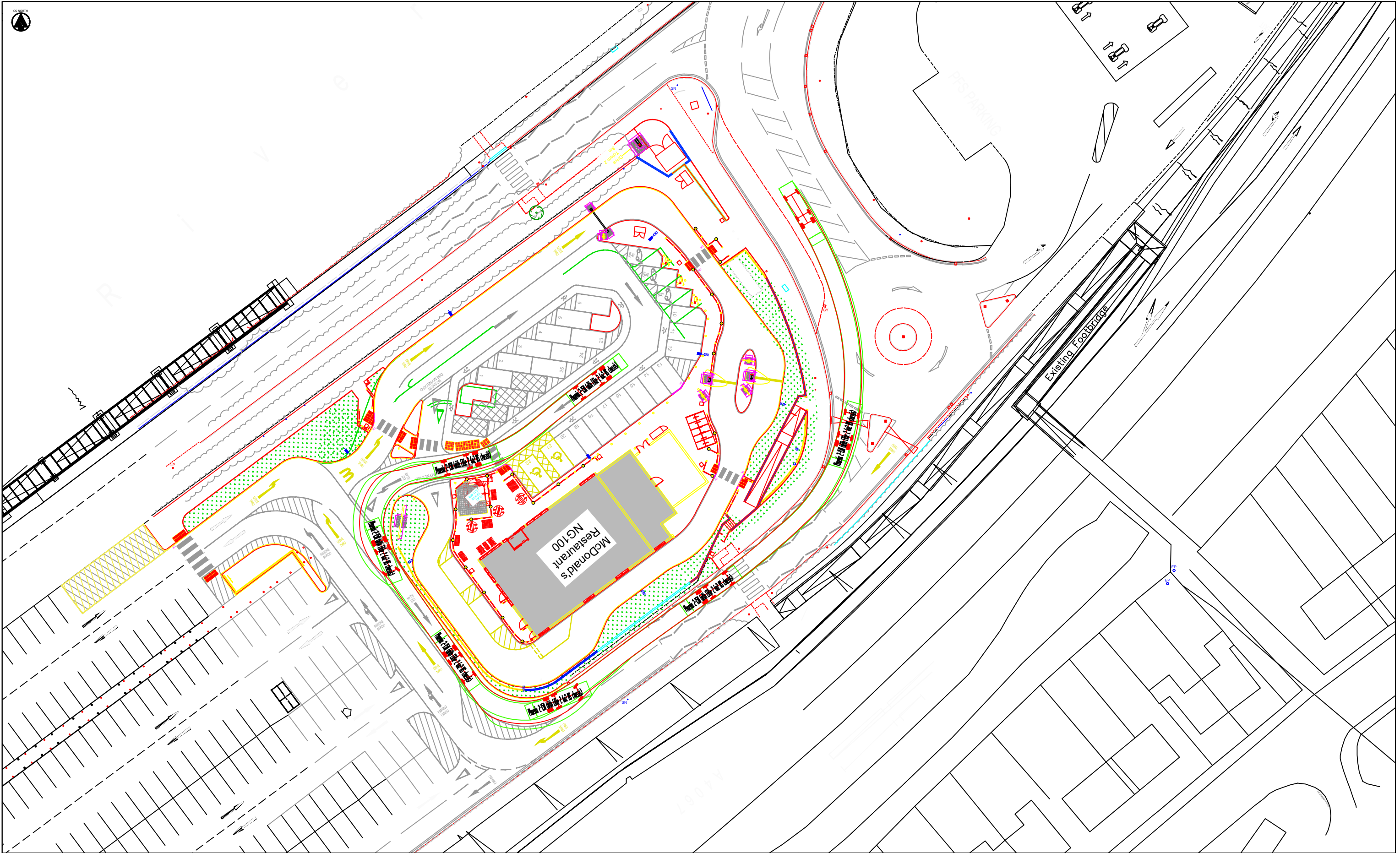
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FOR PLANNING

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15297-HYD-XX-XX-DR-TP-0303

SCALE @ A3  
1:500

STATUS  
S4

REVISION  
P05



VEHICLE MODELS USED IN SWEEP PATH ANALYSIS

Phoenix 2-15N (with Elite 2 6x2 MS chassis)  
Overall Length 9.595m  
Overall Width 2.230m  
Overall Body Height 3.699m  
Min Body-Ground Clearance 0.251m  
Track Width 2.200m  
Lock to lock time 4.00s  
Kerb to Kerb Turning Radius 9.300m

NOTES

NOTES (CONTINUED)

REVISIONS (CONTINUED)

| REVISIONS |                        |          |                         |          |                                |
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COLLECTION VEHICLE - EXIT MANOEUVRE

HYDROCK PROJECT NO.  
15297

SCALE @ A3  
1:500

STATUS DESCRIPTION  
FOR PLANNING

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STATUS  
S4

REVISION  
P05