

**Project No.:** M2306015      **Document:** Technical Note 1      **Date:** 07 Aug 2023  
**Project:** Land off Lewth Ln (Modified Access)  
**Client:** Mr A Marsh  
**Title:** Design Note  
**Produced By:** Akhtar Miah      **Checked By:** Petros Price

**Document Components:**

1. Note
2. General Layout Drawing L1
3. Vehicle Tracking Drawing T1

## Introduction

- 1.1. The site is land off Lewth Ln, Woodplumpton, near Preston.
- 1.2. It has an existing access off Lewth Ln and the client's proposal is for a modified access to permit HGV's to enter the site and exit in a safe manner.
- 1.3. The illustration below shows the location and existing access point.



Based on adapted from Google Maps

**Figure 1 - Location Plan**  
*(Illustrative only, not an accurate depiction of boundary demarcation)*

1.4. This Technical Note highlights the principal design merits of the proposed layout.

## General Layout – Drawing L1

1.5. Drawing L1 shows the General Layout. The format of the proposed modified access is based on vehicle tracking.

1.6. The merits of the proposed layout are:

- Desing vehicle is a 16.5m Articulated HGV.
- Access width configured to eliminate or minimise encroachment of vehicle body on to opposite lane of Lewth Ln.
- Where relevant, geometry incorporates minimum 1m buffer between vehicle body and kerb.
- The kerb format includes 'High Containment Kerb', to ensure that vehicles stay on the intended path thus preventing overrun of vulnerable areas.
- Merge Taper to northwest, 15m long.
- Edge of carriageway markings to delineate the threshold between the carriageway and access.
- Linear drain across moth of access to prevent the site's surface water discharging onto public highway.

## Vehicle Tracking – Drawing T1

1.7. The Vehicle Tracking exercises are shown on drawing T1 show that the geometry of the proposed access is feasible and can accommodate a 16.5m Articulated HGV. Four manoeuvres are shown:

1. Left In
2. Right In
3. Left Out
4. Right Out

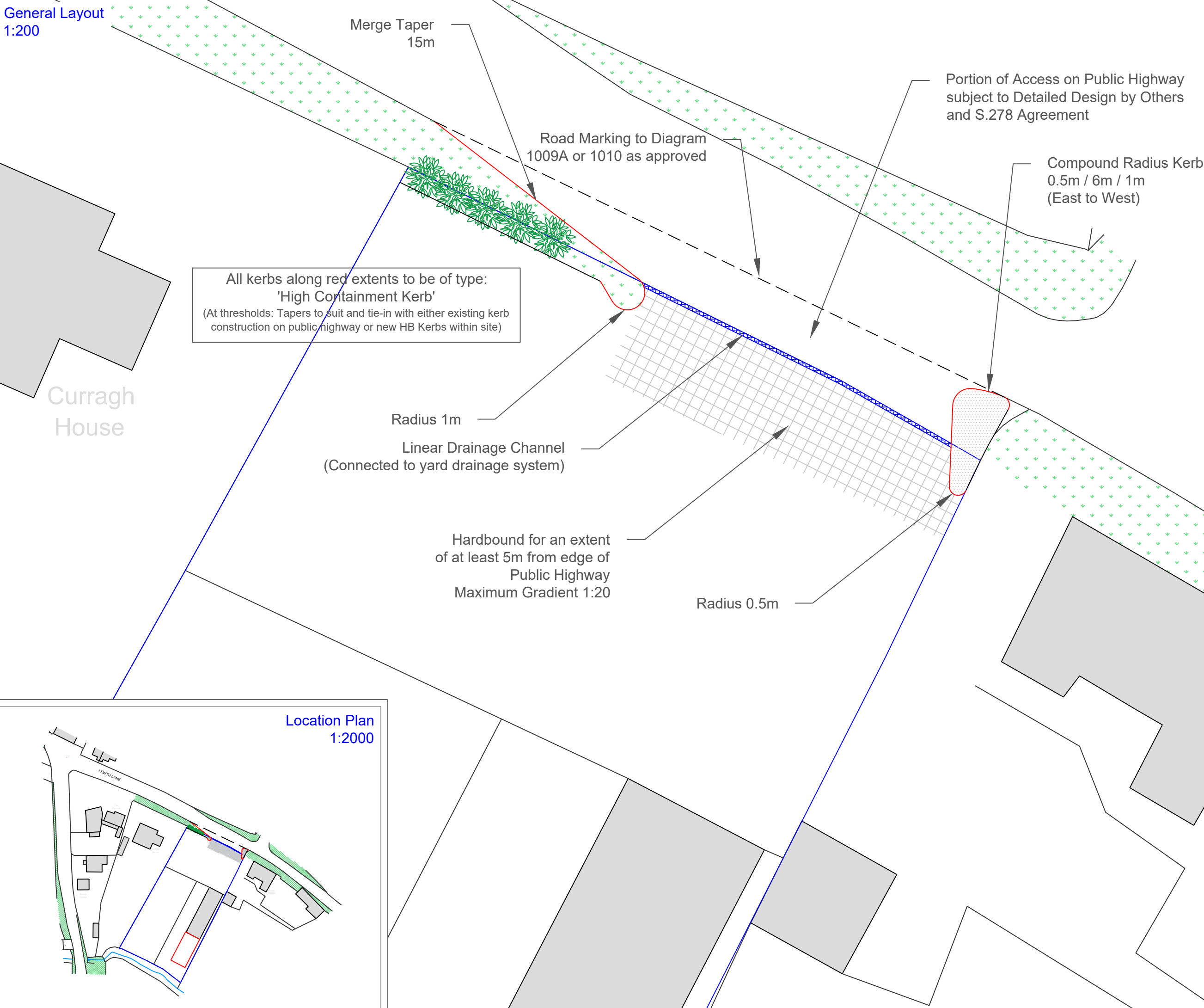
## Conclusion

1.8. The geometry of the proposed access is feasible and can accommodate a 16.5m Articulated HGV.

1.9. The proposed layout is subject to a Topographical Survey and Detailed Design to be carried out by Others.

## Appendix 1

### General Layout Drawing L1



- Notes:
1. Access geometry based on Vehicle Tracking to accommodate up to 16.5m Articulated HGV.
  2. Configured to eliminate or minimise encroachment of vehicle body on to opposite lane of Lewth Ln.
  3. Where relevant, geometry incorporates minimum 1m buffer between vehicle body and kerb.
  4. See Drawing T1 for Vehicle Tracking Diagrams.
  5. General Layout design subject to Topographical Survey and Detailed Design.



- Notes
1. All measurements in metres.
  2. Do not measure off this drawing.
  3. Refer to stated dimensions only.
  4. Not to be relied upon for detailed design or construction.

|             |    |          |   |
|-------------|----|----------|---|
| Drawing No. | L1 | Revision | - |
|-------------|----|----------|---|

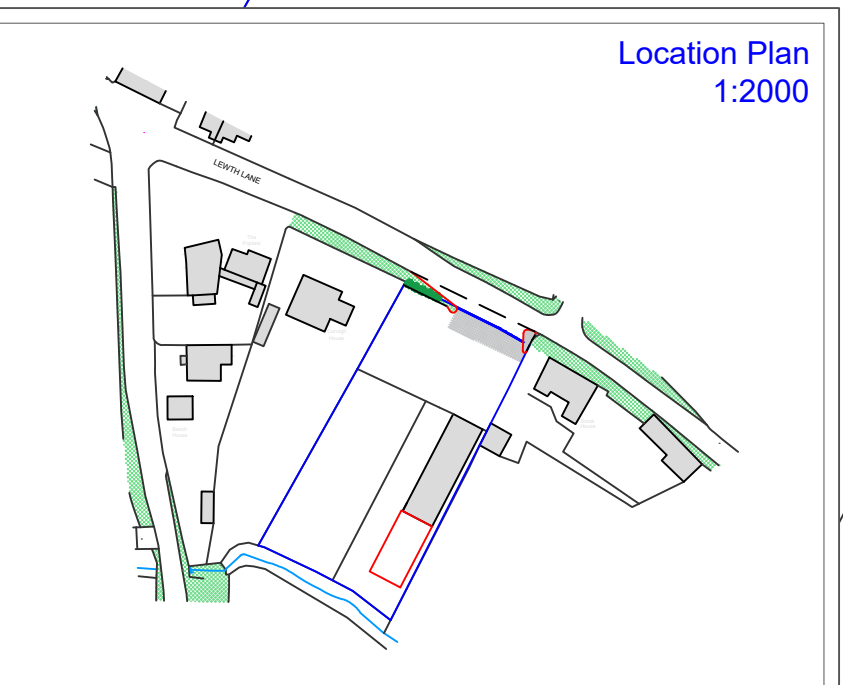
Title  
Land of Lewth Ln, Woodplumpton  
General Layout

|              |            |         |          |
|--------------|------------|---------|----------|
| Scale        | Drawn      | Client  | Cad ID   |
| Various @ A3 | ER         | A Marsh | M2306015 |
|              | Date       | Checked | PS       |
|              | 03.08.2023 | AM      | A3       |

| Ref.      | Date | Details | Initials |
|-----------|------|---------|----------|
| Revisions |      |         |          |



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## Appendix 2

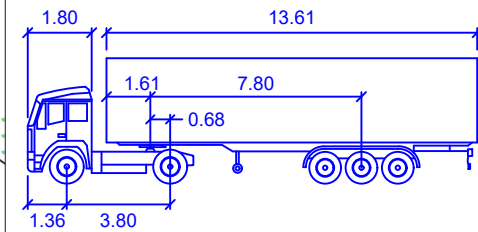
### Vehicle Tracking Drawing T1

View 1  
Left In

View 2  
Right In

View 3  
Left Out

View 4  
Right Out



Artic 16.5m Overall Length

| metres        |        | Lock to Lock Time : 6.0   |
|---------------|--------|---------------------------|
| Tractor Width | : 2.55 | Steering Angle : 42.7     |
| Trailer Width | : 2.55 | Articulating Angle : 70.0 |
| Tractor Track | : 2.55 |                           |
| Trailer Track | : 2.55 |                           |

- Notes
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  4. Not to be relied upon for detailed design or construction.

|             |    |          |   |
|-------------|----|----------|---|
| Drawing No. | T1 | Revision | - |
|-------------|----|----------|---|

|  |  |
|--|--|
| Title                                      |  |
| Land of Lewth Ln, Woodplumpton<br>Tracking |  |

|            |         |         |          |
|------------|---------|---------|----------|
| Scale      | Drawn   | Client  | Cad ID   |
| 1:250 @ A3 | ER      | A Marsh | M2306015 |
| Date       | Checked | PS      | A3       |
| 03.08.2023 | AM      |         |          |

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