

## **Harrison Transportation**

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Papamoa 3151

548

12 May 2023

Shae Crossan  
Stratum Consultants  
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Tauranga

Dear Shae

### **Tinex Group Ltd, Te Puna Station Road Existing Activities – Transportation Assessment Additional Information**

Tinex Group Ltd seek consent for the existing yard-based industrial activities at 245 Te Puna Station Road, Te Puna. A Transportation Assessment Report has previously been prepared, the report dated 28 November 2022. Council has requested further information. This report provides the further information on transportation issues.

#### **1. Tracking Curves**

Council has requested the provision of tracking curves to show how the site access onto Te Puna Station Road is used by the vehicles that are expected to use it. It has previously been recommended that the vehicle entrance be upgraded in accordance with Council's standard design for commercial vehicle entrances, as specified in the Development Code, Drawing W437, Diagram A. An analysis of the tracking however shows that the standard design will not fully accommodate the left turn movements. It is therefore recommended that the corner radii of the entrance be upgraded to a higher standard, as given in the Waka Kotahi NZTA Planning Policy Manual, Appendix 5E, Diagram D.

The tracking of the design 17.9 m long truck and articulated trailer unit turning right in and left out of the site is shown on Stratum Consultants drawing 423022 CIV D001, copy attached. This shows that the tracking can be accommodated in one continuous forward motion, without the trucks needing to cross over the Te Puna Station Road centreline.

#### **2. Road Widening Opposite the Access**

Council has requested an assessment of whether omitting the widening opposite the vehicle entrance could result in crashes. The Transportation Assessment Report used traffic count data collected during May, June and July 2022. Since then, a slip on Te Puna Station Road east of the site has restricted vehicle movements to and from the east. It is understood that Council is undertaking new traffic surveys, but that the result of these surveys is not yet available. An assessment of whether omitting the widening opposite the vehicle entrance could result in crashes will be carried out once the updated traffic count data is available.

Council has also requested clarification of how many heavy and light vehicles are expected to use the site each day. The previous traffic surveys identified an existing peak hour traffic

generation of between 2 veh/h and 3 veh/h, with an estimated daily traffic generation of 25 veh/day. Over the full survey period, 60% of vehicles turning in and out of the site were heavy vehicles and 40% were light vehicles. On this basis, the daily heavy vehicle traffic generation is estimated at 15 veh/day while the light vehicle traffic generation is estimated at 10 veh/day.

### **3. Design of the Access**

Council has queried whether any physical works are required for the proposed upgrade of the vehicle entrance. It is confirmed that physical works are required, as shown on the attached drawing.

### **4. On-Site Parking and Manoeuvring**

The District Plan requires on-site manoeuvring to be provided and also specifies the required dimensions of any on-site car parking spaces. These details have not previously been provided, but are now shown on the attached drawing. The drawing shows three car parking spaces on each site, together with a loading bay. The tracking of the design 17.9 m long heavy vehicle is also shown. The drawing shows that compliant on-site car parking, loading and manoeuvring can be provided.

### **5. Sealing of Parking Areas**

The District Plan requires car parking areas in industrial zones to be sealed. Parking areas in rural zones are however required to be metalled as a minimum. The car parking areas are proposed to be metalled. Council has requested justification for this non-compliance. This will be provided by others.

### **6. Intersection of Te Puna Road and Te Puna Station Road**

Council has requested tracking diagrams for heavy vehicles using the intersection of Te Puna Station Road and Te Puna Road, including trucks transporting swimming pools and houses. It is understood that swimming pools are transported on standard truck and semi-trailer units, up to 17.9 m long. The tracking of these vehicles is shown on the attached drawing. This shows that the tracking can be accommodated, however the rear of the trailer tracks over the Te Puna Station Road centreline. The drawing shows that it is proposed to alter the road markings at the intersection to accommodate the tracking of the design heavy vehicle.

It is understood that the transport of houses will be carried out during off-peak times under specific traffic control as an over-dimension load. This specific traffic control will manage the tracking of these vehicles.

### **7. Heavy Vehicle Turning Movements**

Council has requested confirmation of the daily number of heavy vehicles turning in and out of Te Puna Station Road, at the intersection with Te Puna Road, and an assessment of the effect on the existing chip seal surface. The transportation assessment report presented the results of a traffic survey carried out during May 2022. This identified one heavy vehicle turning left into the site in the morning peak and one in the evening peak. Section 2 of this additional report has identified an expected daily heavy vehicle traffic generation of 15 veh/day.

As Te Puna Station Road east of the site is presently closed due to the slip, all heavy vehicle movements will use the intersection with Te Puna Road. It is expected that the majority of these heavy vehicle movements will be to and from the south. The estimated daily total heavy vehicle movements at the intersection are therefore as follows:

- Right turn from Te Puna Road: 7 to 8 veh/day.
- Left turn from Te Puna Station Road: 7 to 8 veh/day.
- Right turn from Te Puna Station Road: Negligible.
- Left Turn from Te Puna Road: Negligible.

An assessment of the effects on the existing chip seal surface will be carried out by others.

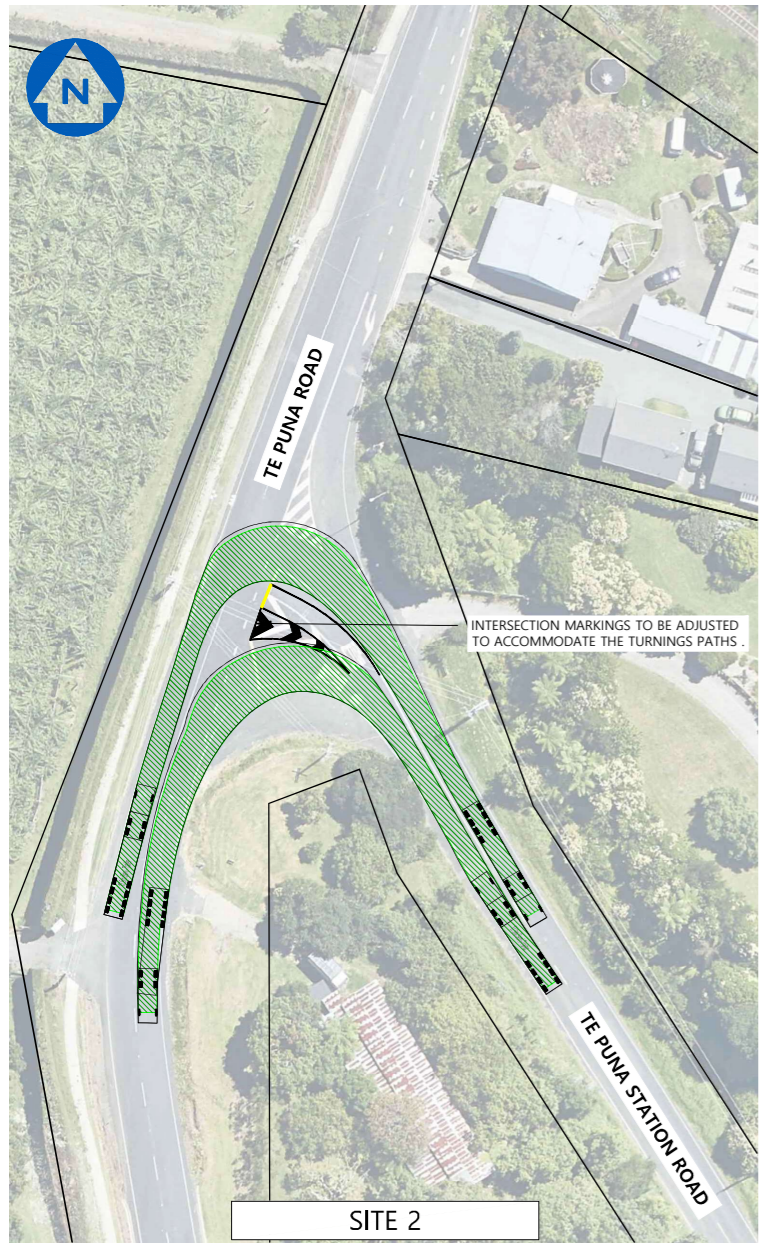
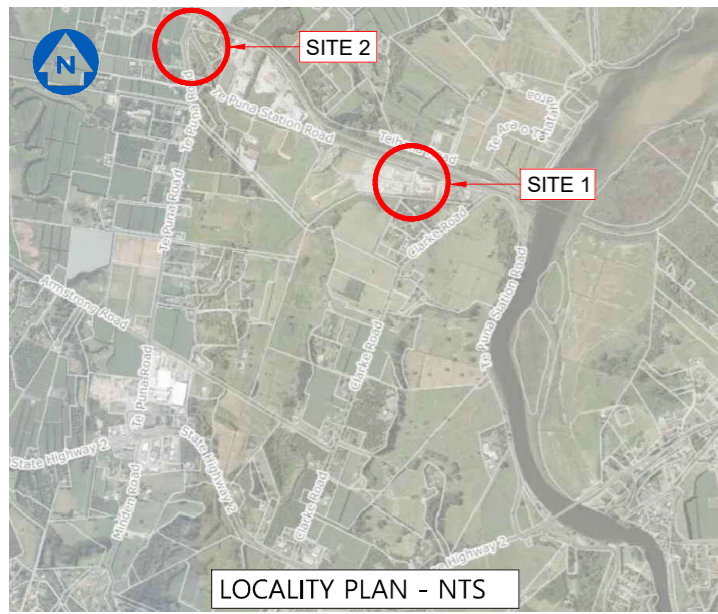
We trust that this additional assessment provides sufficient information, however, if you have any queries or require any clarification please do not hesitate to contact us.

Yours sincerely,



Bruce Harrison  
***Harrison Transportation***

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| No. | Date     | Drawn | Approved | Issue/Revision       |
|-----|----------|-------|----------|----------------------|
| A   | 11.05.23 | JB    | TH       | FOR INFORMATION ONLY |
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TINEX GROUP Ltd  
 245 TE PUNA STATION ROAD  
 TE PUNA

INDUSTRIAL DEVELOPMENT  
 LOT 2 DP22158  
 VEHICLE TRACKING LAYOUT

|             |       |                     |  |
|-------------|-------|---------------------|--|
| Drawing No. |       | 423022 - CIV - D001 |  |
| Sheet No.   | Issue |                     |  |
| 01          | A     |                     |  |
| A1 SCALE:   |       | 1:500               |  |

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