

APPENDIX 3 – Truck Manoeuvring Diagrams

GENERAL COMPLIANCE FOR COMMERCIAL VEHICLES - 2890.2-2002

Off-street commercial vehicle facilities should be designed for the largest expected vehicle using the facility.

RAMP GRADES:

- Maximum grade of 1:20 for 6 metres prior to property boundary for vehicles upto 8.8m in length.
- Maximum grade of 1:20 for 6.6 metres prior to property boundary for vehicles upto 12.5m in length.
- Maximum grade of 1:20 for 9.1 metres prior to property boundary for upto 19.0m articulated vehicles
- Maximum grade of 1:6.5.
- Maximum change in grade of - 1:12 in 4.0m travel for vehicles upto 6.4m rigid in length.
- Maximum change in grade of - 1:16 in 7.0m travel for vehicles upto 12.5m rigid in length.
- Maximum change in grade of - 1:16 in 10.0m travel for vehicles upto 19.0m articulated in length.
- Grades to be measured along shortest distance between two RLs.
 - i.e. on curved ramps grades to be measured along inside edge.
- Maximum grade in vehicle manoeuvring area - 1:8
- Maximum grade in service bay - 1:25

RAMP WIDTHS

- Straight ramps - One way - minimum width 3.5m plus 0.3m clearance on both sides.
 - Two way - minimum width 6.5m plus 0.3m clearance on both sides.
- Curved ramps - to be checked with vehicle turning templates.
- Clearances of 0.3m inside and 0.5m outside to walls and vertical obstructions.
- Intersections between ramps/roadways/alsties should be checked using largest design vehicle turning template.

LOADING BAYS

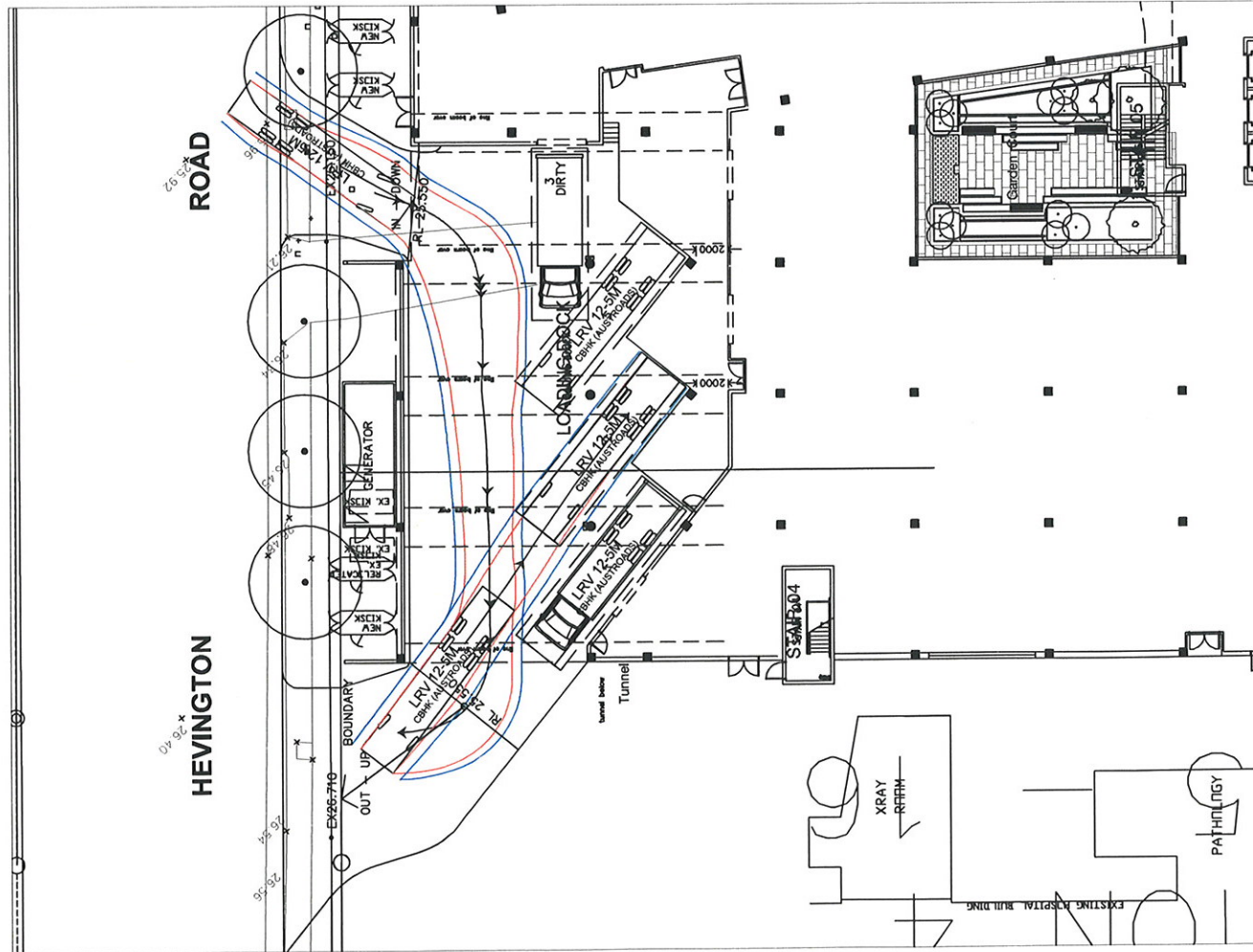
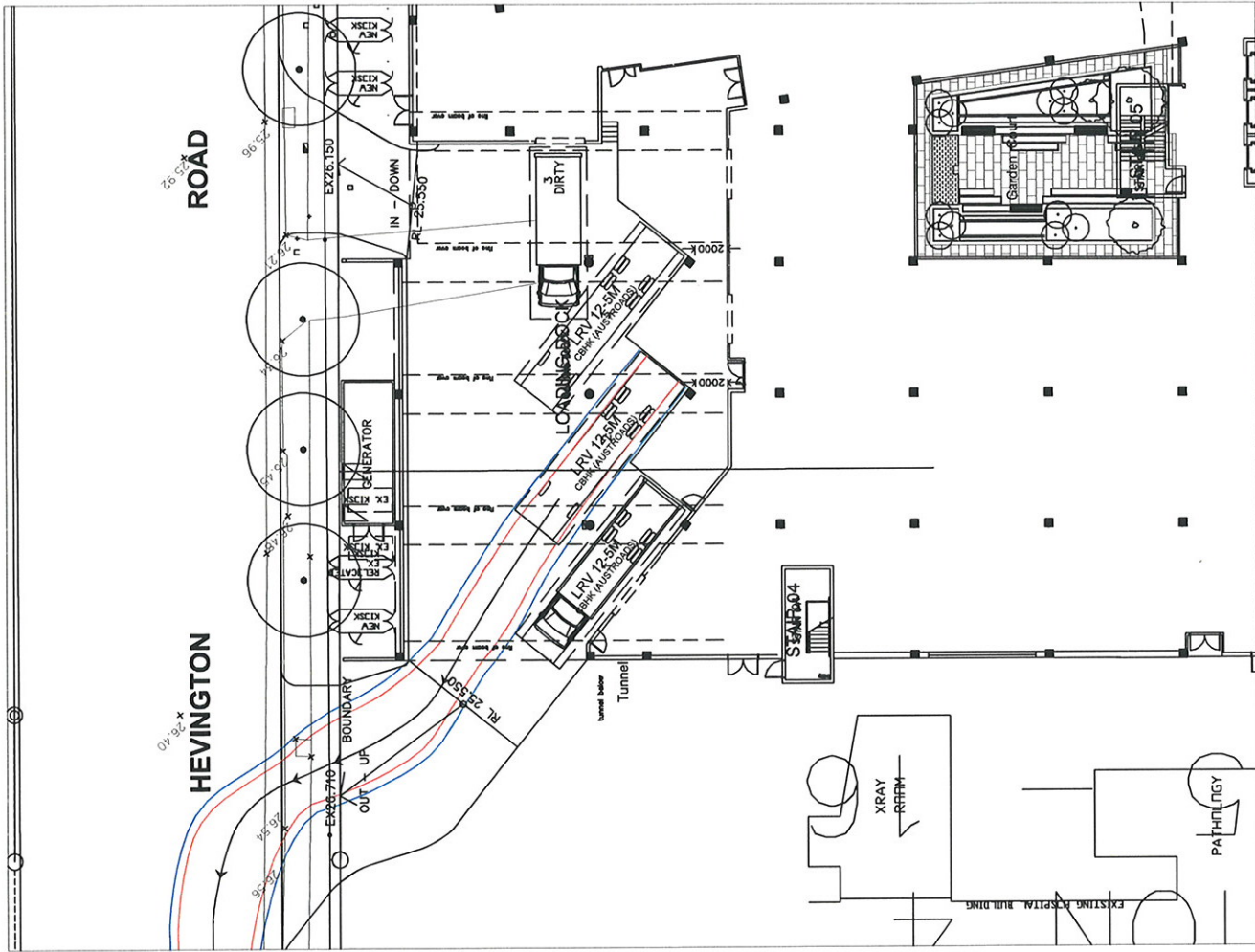
- Minimum 3.5m wide (access to be checked using turning templates)
- Minimum bay length - Length of vehicle plus any required loading/unloading area.

HEIGHT CLEARANCES

- 3.5m minimum for vehicles upto 6.4m in length.
- 4.5m minimum for vehicles longer than 6.4m in length.
- Height clearance above sag change in grade should be measured in accordance with Figure 5.2 AS2890.1-2004.

NOTE: ALL DIMENSIONS SHOWN ARE THE RECOMMEND MINIMUM BY AS2890.2-2002. AND THE PLANS HAVE BEEN CHECKED ACCORDINGLY. ANY ALLOWABLE TOLERANCES TO THESE DIMENSIONS THAT MAY OCCUR DURING CONSTRUCTION SHOULD BE ADDED AT THE DESIGN STAGE

NOTE:
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12.5m LARGE RIGID VEHICLE SWEEP PATHS

