The purpose of this Standard Drawing is to provide typical standard details. The bridge traffic barrier details in this drawing are designed to AS 5100 (2017) for Regular performance level and the fitness for purpose of these details for a specific project shall be designed and certified by an IPESC and shown in the project specific drawings.

**BRIDGE TRAFFIC BARRIER DESIGN CRITERIA**

1. Design Criteria:
   - Refer to AS 5100 'TheAustralia' Barrier Performance Level

2. Post Spacing:
   - a) The maximum spacing of any 2 adjacent posts shall be not exceed 2400
   - b) The minimum spacing of any 2 adjacent posts shall be not exceed 1200
   - c) The typical intermediate post spacing across each span shall be not exceed 1200
   - d) For rail-to-rail joints on PCC deck units, typical post spacing 2,500
   - e) For cast-iron sections, minimum post spacing S2 = 2,400

3. Minimum Rail Length: 0.8 metres

4. Each rail shall be supported by a minimum of 2 posts

5. Only one rail joint permitted between successive posts

6. Provide a rail joint adjacent to each abutment or pier

7. Rail expansion joint gap to be:
   - a) Nominal 0 or adjustable
   - b) Minimum 0/maximum 124 after movement

8. Refer to Design Criteria for Bridges and other Structures for minimum O&M allowance.

**REFERENCES AND DOCUMENTS**

- Design Criteria for Bridges and other Structures
- Departmental Standard Drawings:
  - 1405 Steel Beam Guardrail - Application of Bridge and Barrier Approach
  - 1406 Steel Beam Guardrail - Fabrication Details for Taller Beam Rails and Rail Components
  - 2045 Bridge Fixtures - Standard Details Cast Iron Guardrail for Transversely Crossed Deck Units
  - 2053 Bridge Traffic Barriers - Bridge Safety Rail for Pedestrians only Pathway
  - 2033 Fabrication of Steel Structures

**NOTES**

1. This Standard Drawing provides details of Regular performance level post and rail traffic barrier barriers.
2. DEPARTMENTAL DESIGN DRAWINGS shall be updated in the location and to the spacing shown in the drawing. Details shall be consistent with the requirements specified in AS 5100.
3. DESIGN DRAWINGS shall be updated in the location and to the spacing shown in the drawing. Details shall be consistent with the requirements specified in AS 5100.
4. For maintenance, details shown in Table 1 shall be used for barriers in AS 5100.
5. All materials for the installation of barriers shall be in accordance with Table 1 and AS 5100. These rules apply to all barriers in all environments, unless otherwise specified in Table 1 and AS 5100.
6. All barriers shall be designed and certified by an IPESC and shown in the project specific drawings.
ELEVATION

RAIL TYPES 1 AND 2 No OFF = __ of each as noted

PLAN

RAIL TYPE 3 No OFF = __

DETAIL

RAIL SUPPORT PLATE - TYPE 1

RAIL SUPPORT PLATE - TYPE 2

TAPPING PROCEDURE:
1. Drill holes through the support plates only (using the correct tapping drill to match bolt size or anchor size drill).
2. Position and weld the support plates to the rail.
3. Fill the holes in the support plates with natural silicon.
5. After galvanizing, drill and tap the required size holes through the support plates and the rail.

SECTION F

Before galvanizing

SECTION F

After galvanizing

Notes:
- Damaged project specific information that shall be shown on the project drawings
- Used at Fixed Joints and Continuous decks
- Used at Expansion Joints

TYPICAL - RAIL TYPE ___ No OFF = ___

TYPICAL - RAIL TYPE ___ No OFF = ___

TYPICAL - RAIL TYPE ___ No OFF = ___
TRAFFIC BARRIER POST MODIFICATION FOR SAFETY RAIL ASSEMBLY
Refer Standard Drawing 2203
TRAFFIC BARRIER END POST MODIFICATION FOR SAFETY RAIL ASSEMBLY

Refer Standard Drawing 2203