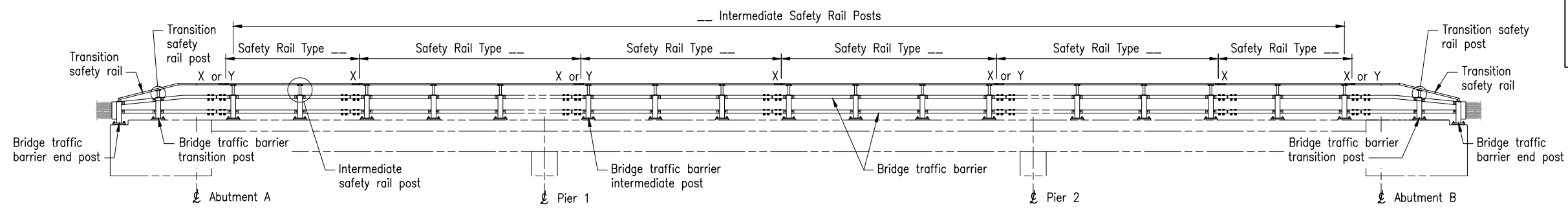


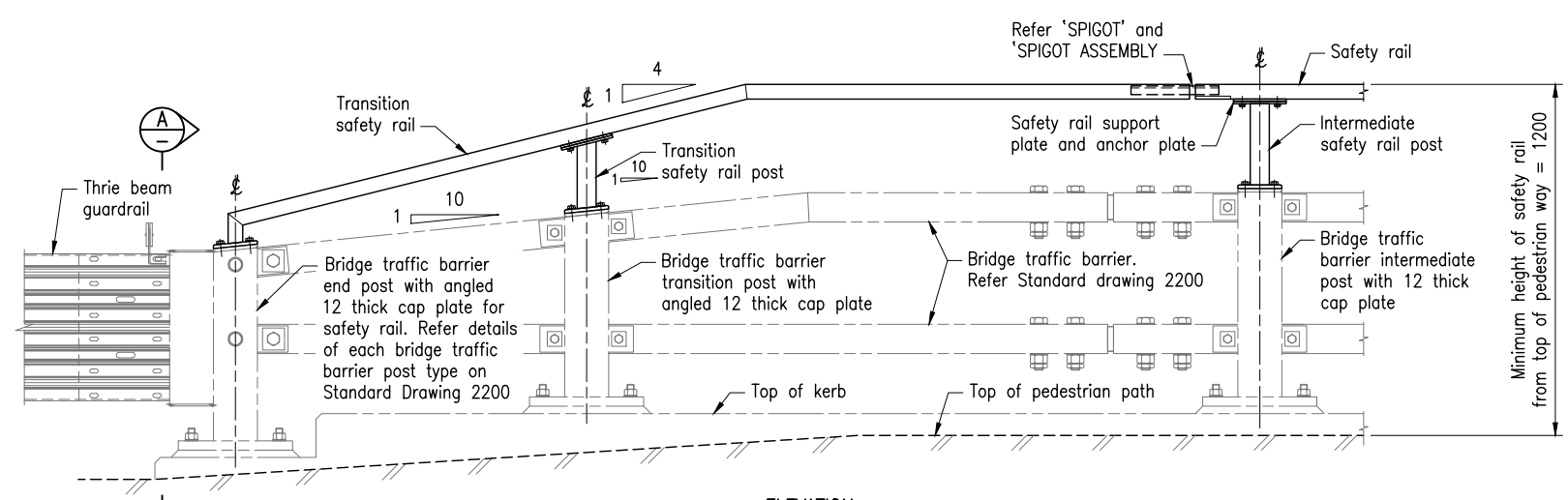
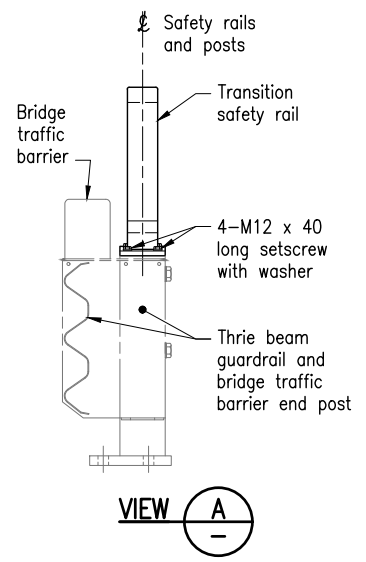
Note: The purpose of this drawing is to provide typical standard details. The fit for propose requirements and project specific details shall be included on the Project Drawings.



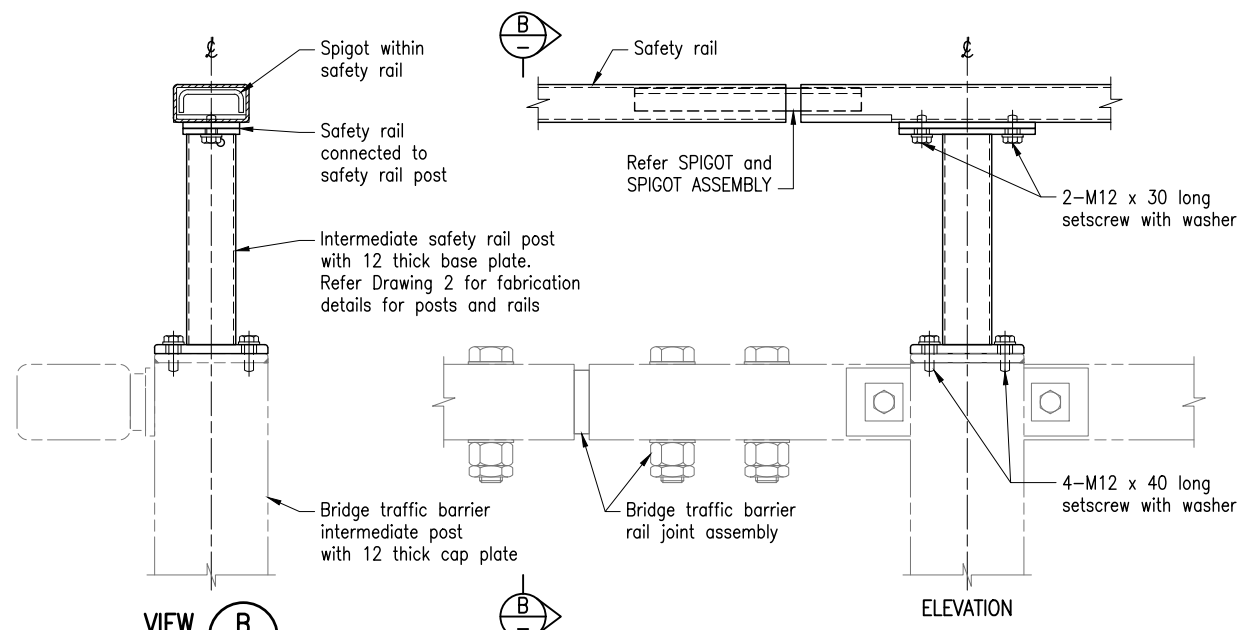
ELEVATION
TYPICAL SAFETY RAIL LAYOUT

'X' denotes 20 nominal installation gap at 25°C (±1°C = ±1mm) - Fixed and Continuous Joints
'Y' denotes 40 nominal installation gap at 25°C (±1°C = ±1mm) - Expansion Joints

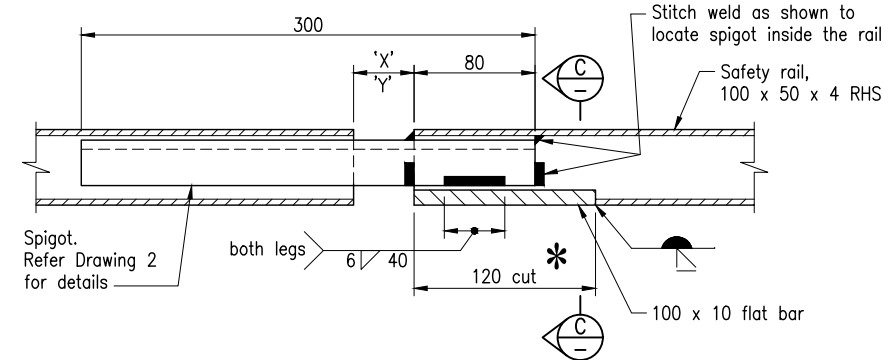
--- denotes project specific information that shall be shown on the project drawings



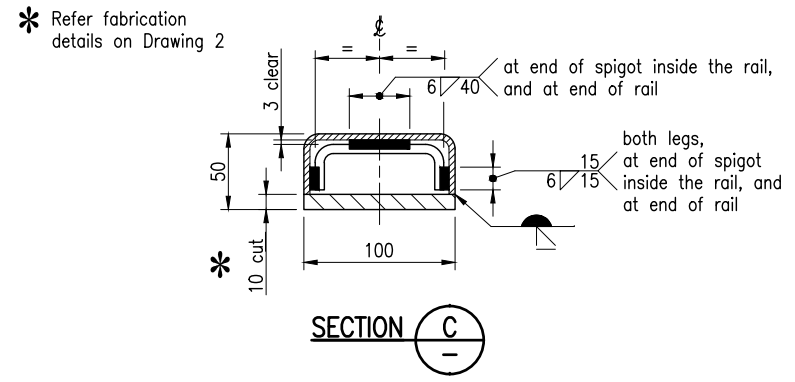
ELEVATION
TYPICAL ASSEMBLY - END, TRANSITION AND INTERMEDIATE POSTS



TYPICAL SAFETY RAIL ASSEMBLY
INTERMEDIATE POST SHOWN, TRANSITION POST AND CONNECTION TO BRIDGE TRAFFIC BARRIER END POST SIMILAR



ELEVATION
SPIGOT ASSEMBLY



SECTION C

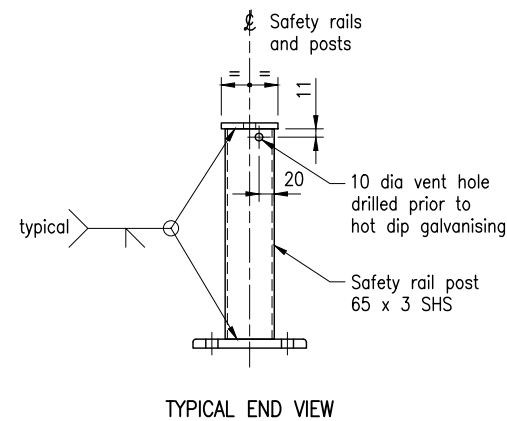
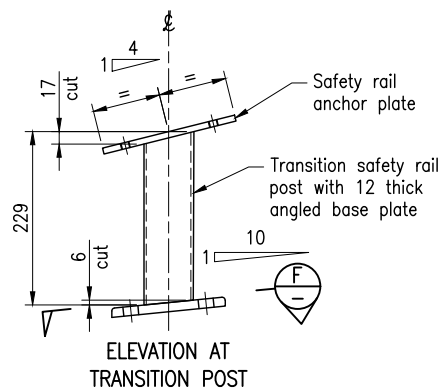
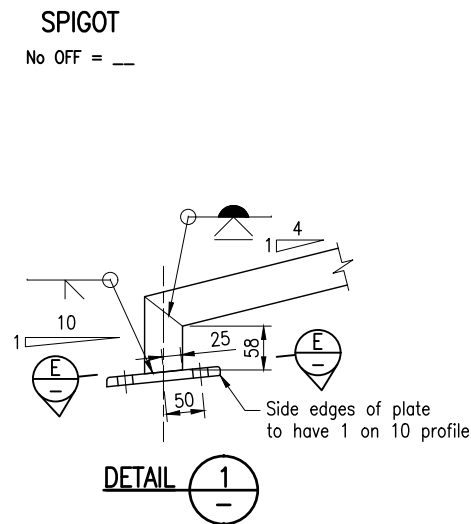
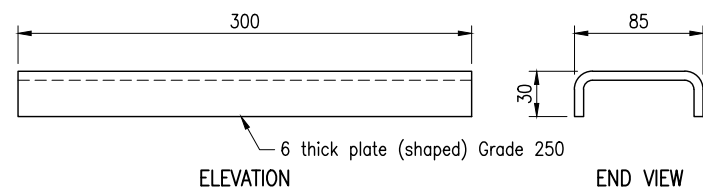
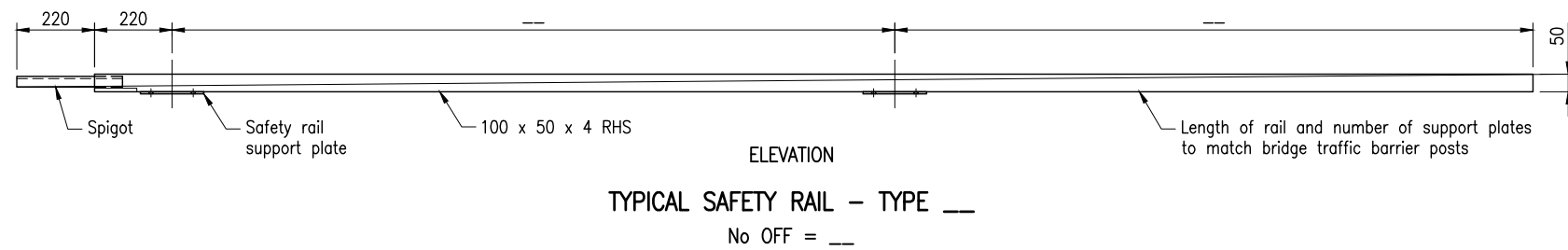
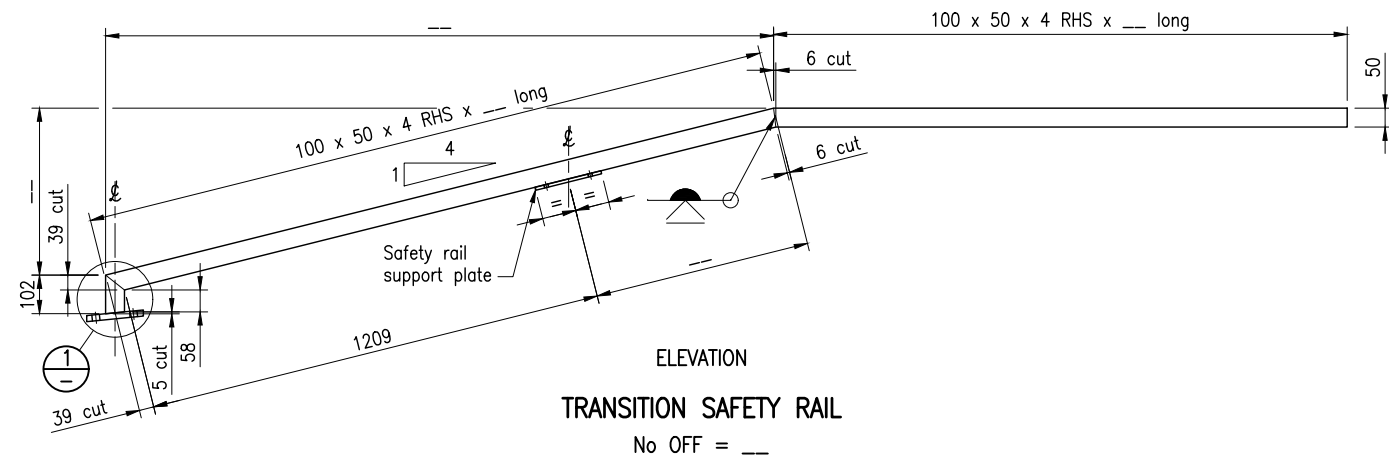
NOTES:

- SCOPE: This Standard Drawing provides details of bridge safety rail for use with regular performance post and rail bridge traffic barriers. Refer Standard Drawing 2200 for regular performance bridge traffic barriers. The modifications required for the bridge traffic barrier posts to incorporate safety rails are shown on Standard Drawing 2200. Refer to Standard Drawing 2204 for bridge balustrade details for use on outside edge of pedestrian only path.
- DESIGN CRITERIA : The bridge safety rail shall be designed in accordance with the Bridge Traffic Barrier Design Criteria 2 to 7 on Standard Drawing 2200. The safety rail post spacings and rail lengths shall suit the dimensions of the corresponding bridge traffic barrier elements that the safety rail is attached to. Each rail type is project specific and shall be fully detailed in the project drawings.
- STEELWORK shall be fabricated to the requirements of MRTS78. RHS and SHS shall be Grade C450L0 to AS/NZS 1163. Steel plate shall be Grade 250 to AS/NZS 3678. Flat bar shall be Grade 300 to AS/NZS 3679.1. All hollow sections, plate and flat bar will require abrasive blasting to develop a surface profile of 50µm prior to hot dip galvanizing. Setscrews Class 4.6 to AS 1111.2. Washers for Class 4.6 setscrews to AS 1237.1. All setscrews and washers shall be hot dip galvanized to AS 1214. All other steelwork to be hot dip galvanized to AS/NZS 4680. Prior to galvanizing all weld splatter and welding slag is to be removed. Members to be branded with suitable type number after fabrication.
- WELDING symbols conform to AS 1101.3. All welding to AS/NZS 1554.1. All welds except location tack welds to be SP category. Welding consumables to be controlled hydrogen type: G493 to AS/NZS ISO 14341-B or T493 to AS/NZS ISO 17632-B.
- DIMENSIONS are in millimetres.

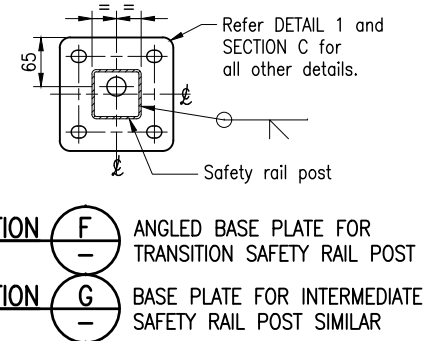
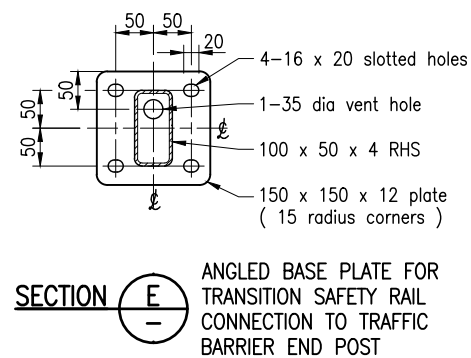
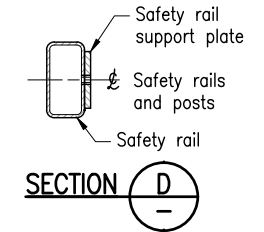
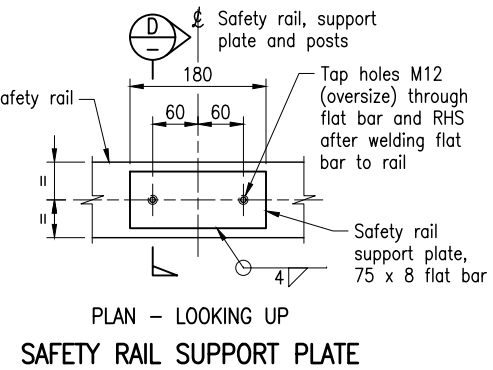
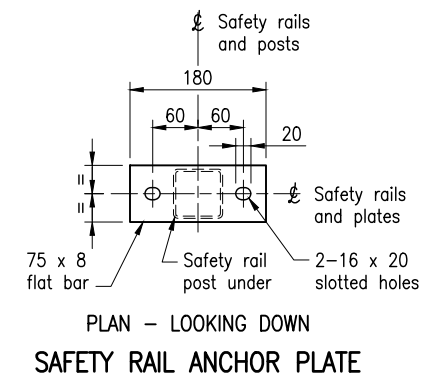
ASSOCIATED DOCUMENTS:

- Design Criteria for Bridges and other Structures
- REFERENCED DOCUMENTS:
- Departmental Standard Drawings:
 - 2200 Bridge Traffic Barriers - Post and Rail Traffic Barrier - Regular Performance Level
 - 2204 Bridge Barriers - Bridge Balustrade for Pedestrian Only Path
- Departmental Specifications:
 - MRTS78 Fabrication of Structural Steelwork
 - MRTS80 Supply and Erection of Bridge Barrier

Department of Transport and Main Roads			
BRIDGE TRAFFIC BARRIERS			
BRIDGE SAFETY RAIL FOR PEDESTRIAN ONLY PATH		A3	Standard Drawing No
DRAWING 1 OF 2		Not to Scale	2203
			Date 3/2022



SAFETY RAIL POST DETAILS



POST AND RAIL FABRICATION DETAILS

Tapping Procedure:

1. Drill holes through the support plates only (using the correct tapping drill to match bolt size or smaller size drill).
2. Position and weld the support plates to the rail.
3. Fill the holes in the support plates with natural silicone.
4. Hot dip galvanize the rail.
5. After galvanizing, drill and tap the required size holes through the support plates and the rail.

Department of Transport and Main Roads			
BRIDGE TRAFFIC BARRIERS			
BRIDGE SAFETY RAIL FOR PEDESTRIAN ONLY PATH		A3	Standard Drawing No
DRAWING 2 OF 2		Not to Scale	2203
			Date 3/2022
A	B	C	