

The purpose of This Standard Drawing is to provide typical standard details. The fitness for purpose of these details for a specific project shall be designed and certified by an RPEQ. The details specific to the project shall be shown on the project specific drawings.

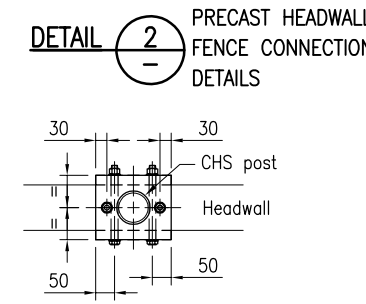
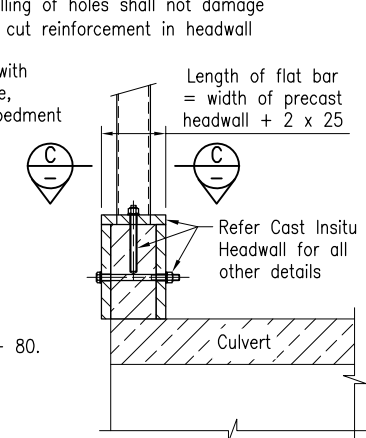
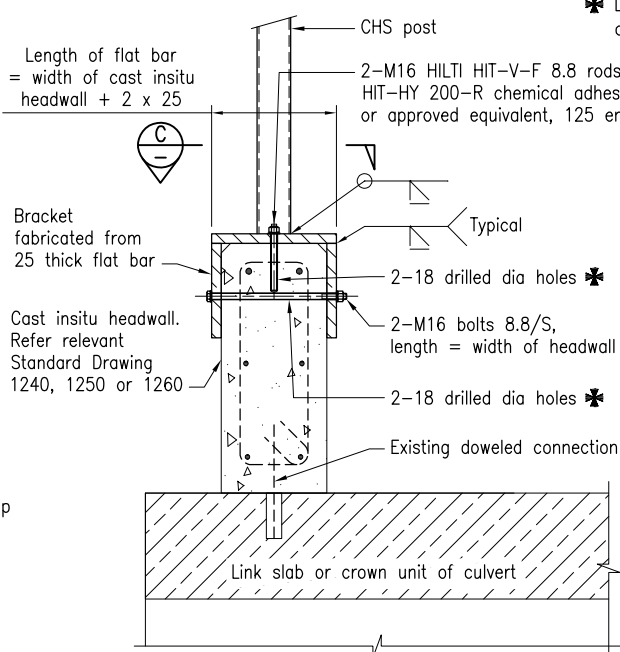
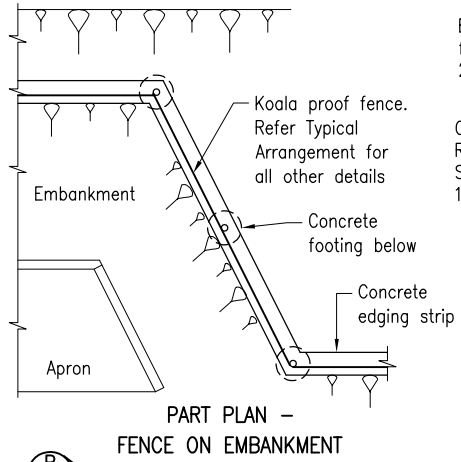
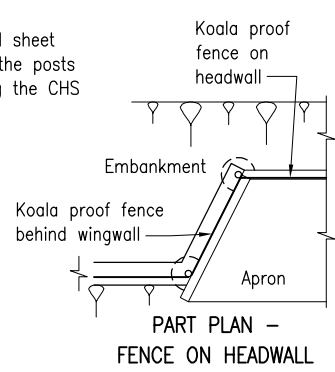
KOALA PROOF FENCE:

- F1. PREFINISHED/ PREPAINTED GALVANIZED STEEL SHEET shall be coloured on both sides. The nominated colour to face the road, which shall be approved by the Project Administrator, shall be "Cottage Green" or "Nightsky Black".
- F2. SELVEDGES: Barbed selvedges shall be used at top except on gates where knuckled selvedges are used top and bottom.
- F3. TIE/LACING WIRE shall be green PVC coated galvanized wire unless specified otherwise.
- F4. CORNER POSTS shall be adopted where the change in angle in horizontal alignment exceeds 20 degrees.
- F5. STRAINER POST: Provide bracing stays in each direction at strainer post between 2 intermediate panels at 150 intervals on straight lengths of fence.
- F6. FENCE INSTALLATION REQUIREMENTS: Chain wire and pre-painted galvanized steel sheet shall be located on the opposite side of the posts to the roadway to prevent koalas climbing the CHS posts, stays, and bracing. Connection to culvert headwalls: All dimensions shall be verified on site prior to fabrication of steel components. Connection to bridges shall be as detailed in the bridge drawings.

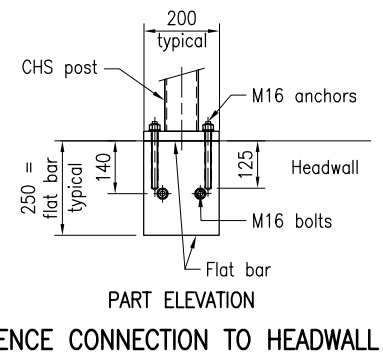
KOALA PROOF FENCE - TYPICAL ARRANGEMENT
Viewed from outside road reserve

TYPICAL INTERMEDIATE STRAINER POST ASSEMBLY
Viewed from outside road reserve

KOALA PROOF FENCE AT GATE
Viewed from outside road reserve



SECTION C - TYPICAL DETAILS - PART PLAN



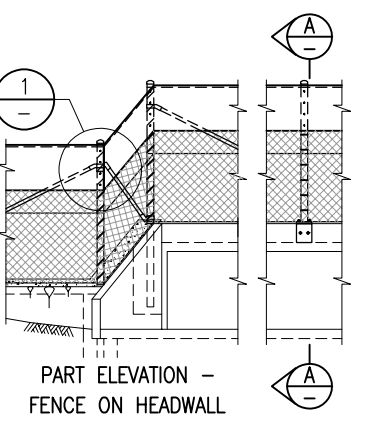
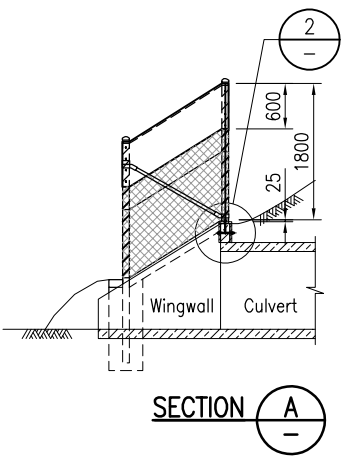
FENCE CONNECTION TO HEADWALL

NOTES:

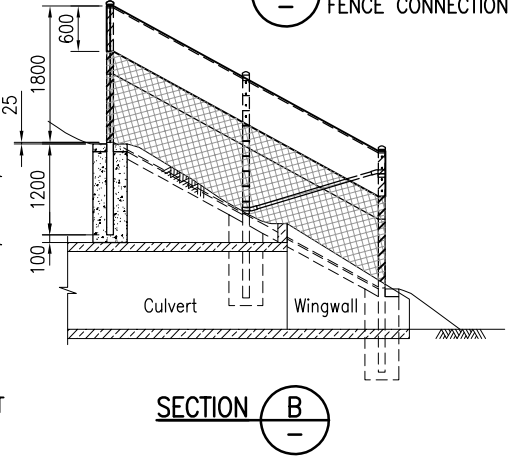
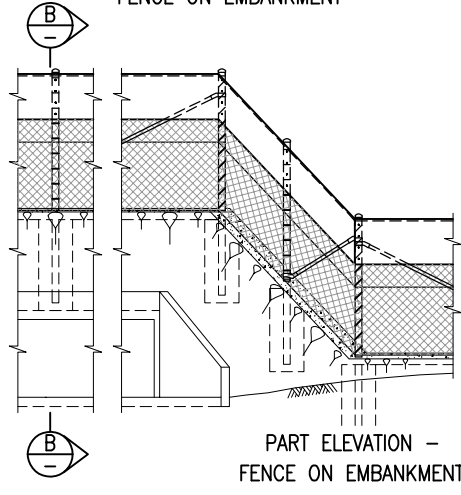
- 1. SCOPE: This Standard Drawing provides details of koala proof fencing for TMR projects, and shall be constructed in accordance with MRTS14.
- 2. WIND DESIGN LOADS shall comply with AS/NZS 1170.2. Design ultimate wind load $V = 51$ m/s.
- 3. CONCRETE shall be in accordance with MRTS70. Concrete strength N32/20.
- 4. REINFORCING STEEL shall be in accordance with MRTS71, Standard Drawing 1044 and AS/NZS 4671. Mesh Grade D500L.
- 5. STEELWORK shall be fabricated to the requirements of MRTS78. CHS shall be Grade C350, or as noted on the drawing, to AS 1163. Flat bar shall be Grade 300 to AS/NZS 3679.1. Bolts Class 8.8, nuts Class 8 and washers for Class 8.8 bolts to AS/NZS 1252. All nuts shall be snug tight in accordance with AS 4100. Galvanized fencing wire, tie/lacing wire and galvanized chainwire shall conform to AS 2423. All bolts and nuts shall be hot dip galvanized to AS 1214. All other steelwork shall be hot dip galvanized to AS/NZS 4680. Prior to galvanizing all weld splatter and welding slag shall be removed.
- 7. WELDING symbols to AS 1101.3. All welding shall be to AS/NZS 1554.1. All welds except location tack welds shall be SP category. Welding consumables shall be controlled hydrogen type G493 to AS/NZS ISO 14341-B or T493 to AS/NZS ISO 17632-B.
- 8. PREFINISHED/ PREPAINTED GALVANIZED STEEL SHEET shall be 0.4mm BMT to AS 2728.
- 9. POP RIVETS with aluminium shell, steel stem (large flanged) maximum grip 9.5mm, drill bit No 11 (4.9mm), shall be used.
- 10. DIMENSIONS are in millimetres.

REFERENCED DOCUMENTS:

- Departmental Specifications and Technical Notes:
 - MRTS14 Road Furniture
 - MRTS70 Concrete
 - MRTS71 Reinforcing Steel
 - MRTS78 Fabrication of Structural Steelwork



KOALA PROOF FENCE AT CULVERTS
Viewed from outside road reserve



SECTION B

Department of Transport and Main Roads				Standard Drawing No	
FENCING				1603	
KOALA PROOF FENCE AND GATE		A3	Not to Scale	Date 7/19	
A	B				