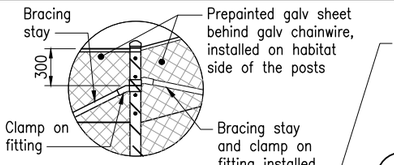
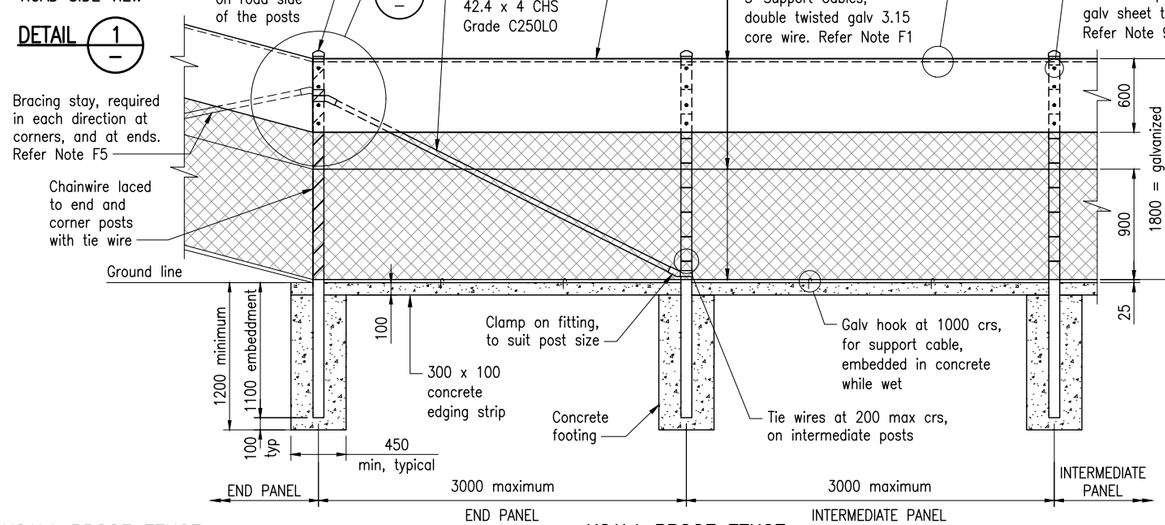
The purpose of This Standard Drawing is to provide typical standard details.
The fitness for purpose of these details for a specific project shall be designed and certified by an RPEQ.
The details specific to the project shall be shown on the project specific drawings.



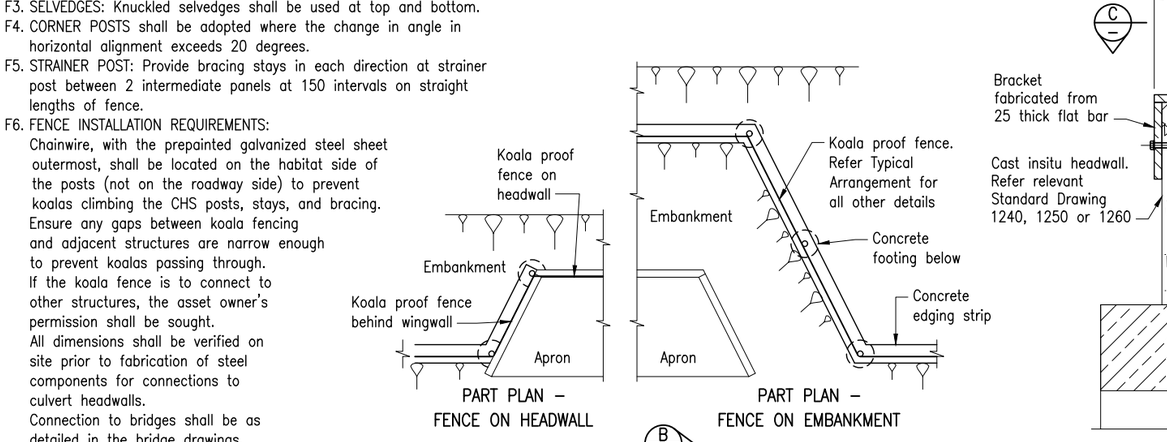
ROAD SIDE VIEW

DETAIL 1



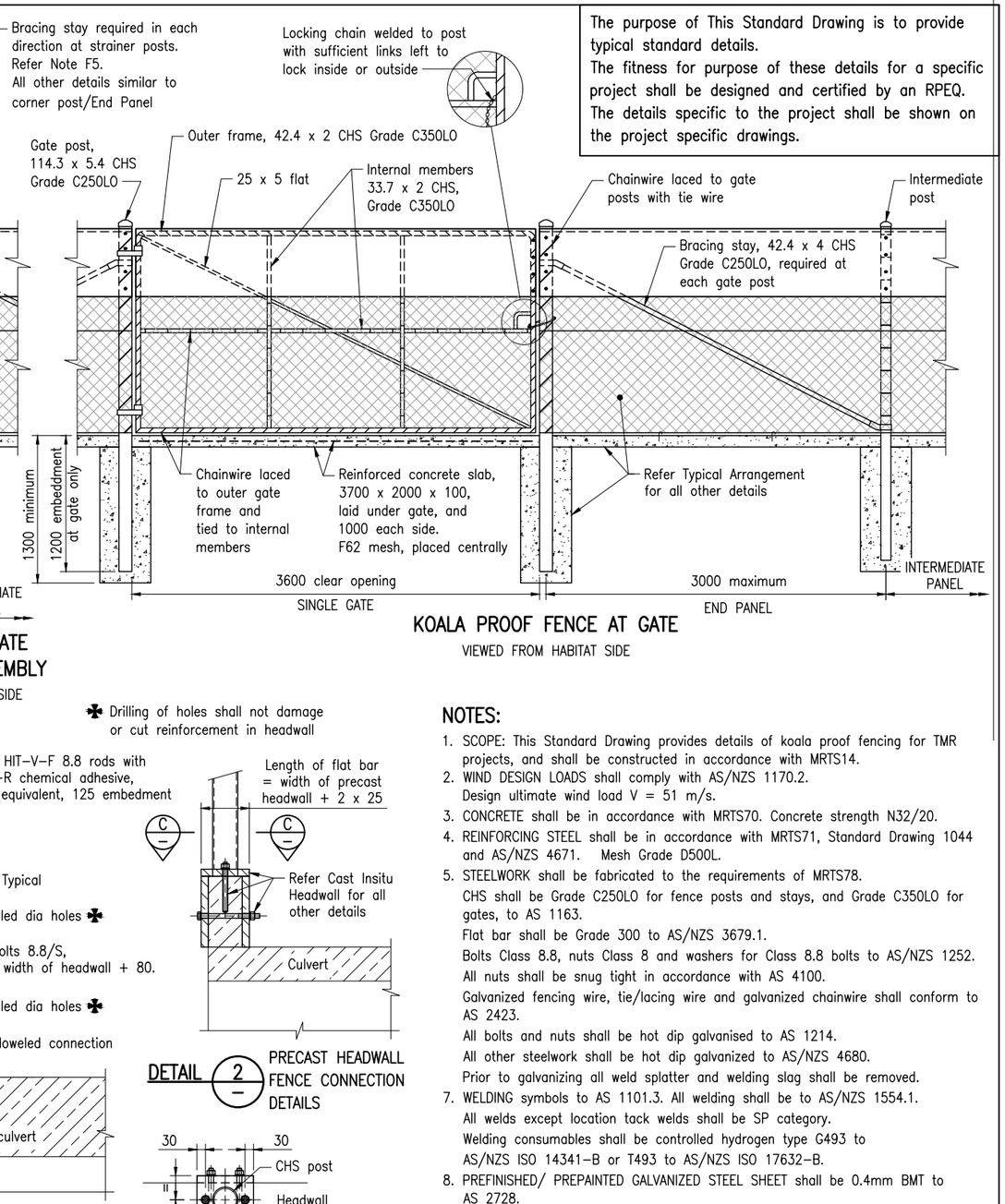
KOALA PROOF FENCE – TYPICAL ARRANGEMENT

VIEWED FROM HABITAT SIDE



TYPICAL INTERMEDIATE STRAINER POST ASSEMBLY

VIEWED FROM HABITAT SIDE



KOALA PROOF FENCE AT GATE

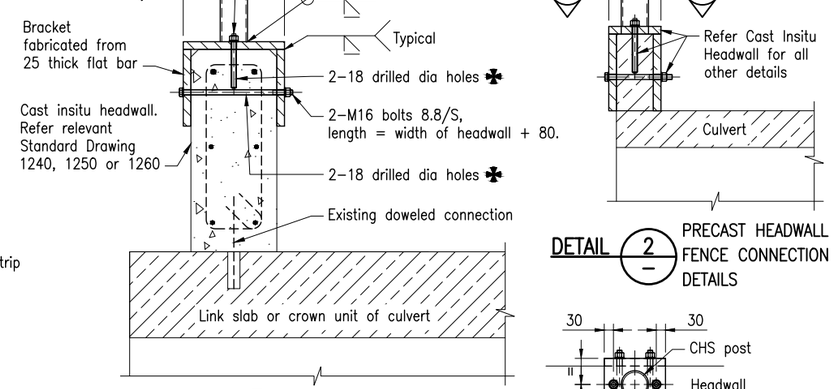
VIEWED FROM HABITAT SIDE

KOALA PROOF FENCE:

F1. BLACK PVC COATED galvanized chainwire, core wire, tie wire and support cables shall be used where the fence is located adjacent to pedestrian or bikeway areas.
F2. PREFINISHED/ PREPAINTED GALVANIZED STEEL SHEET shall be coloured on both sides, as nominated in the project specific documentation. The nominated colour to face the road.
F3. SELVEDGES: Knuckled selvedges shall be used at top and bottom.
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:
Chainwire, with the prepainted galvanized steel sheet outermost, shall be located on the habitat side of the posts (not on the roadway side) to prevent koalas climbing the CHS posts, stays, and bracing.
Ensure any gaps between koala fencing and adjacent structures are narrow enough to prevent koalas passing through.
If the koala fence is to connect to other structures, the asset owner's permission shall be sought.
All dimensions shall be verified on site prior to fabrication of steel components for connections to culvert headwalls.
Connection to bridges shall be as detailed in the bridge drawings.

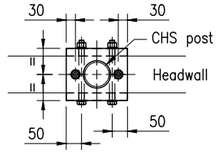
PART PLAN – FENCE ON HEADWALL

PART PLAN – FENCE ON EMBANKMENT

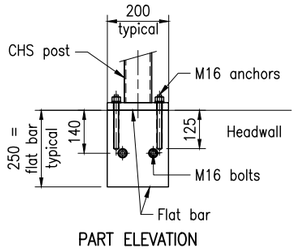


DETAIL 2 – CAST INSITU HEADWALL FENCE CONNECTION DETAILS

DETAIL 2 – PRECAST HEADWALL FENCE CONNECTION DETAILS

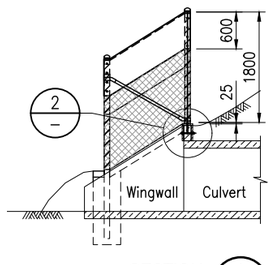


SECTION C – TYPICAL DETAILS – PART PLAN

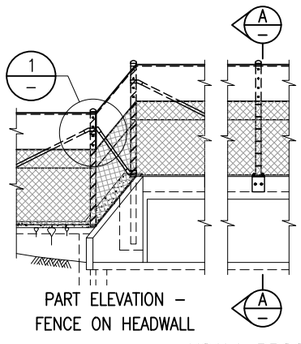


PART ELEVATION

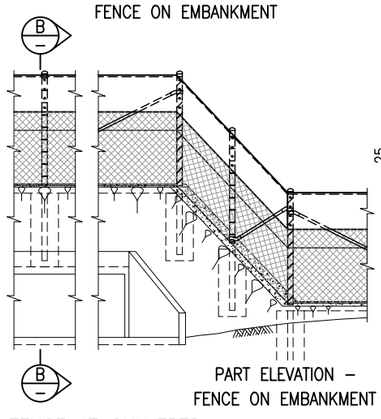
FENCE CONNECTION TO HEADWALL



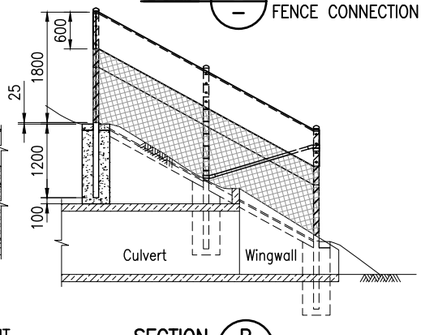
SECTION A



PART ELEVATION – FENCE ON HEADWALL



PART ELEVATION – FENCE ON EMBANKMENT



SECTION B

KOALA PROOF FENCE AT CULVERTS

VIEWED FROM HABITAT SIDE

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 C250LO for fence posts and stays, and Grade C350LO for gates, 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 galvanised 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 DEPARTMENTAL SPECIFICATIONS:

MRTS14 Road Furniture
MRTS70 Concrete
MRTS71 Reinforcing Steel
MRTS78 Fabrication of Structural Steelwork

Department of Transport and Main Roads

FENCING

KOALA PROOF FENCE AND GATE

Queensland Government
© The State of Queensland (Department of Transport and Main Roads) 2021 https://creativecommons.org/licenses/by/4.0/

A3
Not to Scale

Standard Drawing No 1603
Date 7/2021

A | B | C