GENERAL NOTES:
1. All dimensions are in millimetres unless noted otherwise.
2. All dimensions shall not be scaled from the drawings.

CONCRETE:
3. Unless otherwise specified, concrete class shall be N32.
4. Concrete layers to reinforcement shall be 50 mm unless noted otherwise.
5. All exposed corners shall have a 20 x 20 mm chamfer unless noted otherwise.
6. For concrete finishes refer to Main Roads Specification 483.

REINFORCEMENT AND PRESTRESSING STRANDS:
7. Reinforcement shall conform to:
   a. 500 MPa reinforcement bars to AS/NZS 4671
   b. 250 MPa plain bars to AS/NZS 4671
8. Where reinforcement laps are required but not shown, stock lengths and staggered laps shall be provided.
9. Lap length for reinforcement shall be a minimum of 500 mm.
10. For details of cutting and removal of reinforcement refer to specifications.
11. Prestressing strands shall be AS/NZS 4671-1:1990, 17.8 mm diameter.
12. Lap length for prestressing strands shall be a minimum of 500 mm, with the addition of 2 x 16 mm bolts fastened to each strand lap.

REINFORCEMENT INDICATED ON DRAWINGS AS FOLLOWS:

No. of Bar Grade
52/100-200 EF
BAR LOCATION
abar location
BAR LOCATION ABBREVIATION
LV = LENGTH Varies
DF = EACH FACE
FF = FAB FACE
MF = HEAVY FACE
T = TOP
B = BOTTOM

FOOTING:
11. Over cut any existing soil profiles to a minimum depth of 200 mm below base of concrete barrier.
12. Sub-base material in accordance with specification 301B must be placed in a single layer not less than 200 mm thick as indicated on standard drawing 2010-0500 to the underside of the barrier and continue for 900 mm beyond barrier face to form a pad for the slip form machine.
13. Sub-base material below base of concrete barrier and behind concrete barrier shall be compacted to achieve a dry density ratio of not less than 95% of the maximum dry density (moderated compaction effort).
14. The required pavement compaction must be achieved against excavated faces.
15. Sub-base material surface to be free from loose debris / material prior to casting slip-formed barrier.

EXPANSION AND CONTRACTION JOINTS:
16. Expansion joints are required at the completion of each length of barrier installed in a single slip form, except at the joint between a slip-formed barrier and a cast-in-situ terminal or transition.
17. Maximum spacing for expansion joints is 30 m.
18. Minimum length of continuous barrier including cast in-situ sections is 10 m.
19. Contraction joints shall be located at 2.5 m centres.

STANDARD DRAWING
ROAD SAFETY BARRIERS
CONSTANT SLOPE RIGID BARRIER
STRUCTURAL DETAILS

DESIGNER:
D. Rose

PUBLISHED:
13/4/2023

NOTES:

1. Description
2. Approved by Date

Mpinas Maincards
Road and Traffic Engineering Branch

Scale: 1:50

DETAILS:

EXPERIMENT JOINT - ELEVATION

EXPANSION JOINT PLAN (MAX 550m CTS)

CONTRACTION JOINT PLAN (250 m CTS)

3 No. 1/2" threaded prestressing strands at 90° centres, located centrally.

FINISHED SURFACE

200

38 x 25mm polystyrene joint sealant all around.

Bitumen impregnated fibre board

10 wide x 50 deep saw cut all around finished with edging tool.

Bitumen impregnated fibre board

3 No. 1/2" threaded prestressing strands at 90° centres, located centrally.

FINISHED SURFACE

200