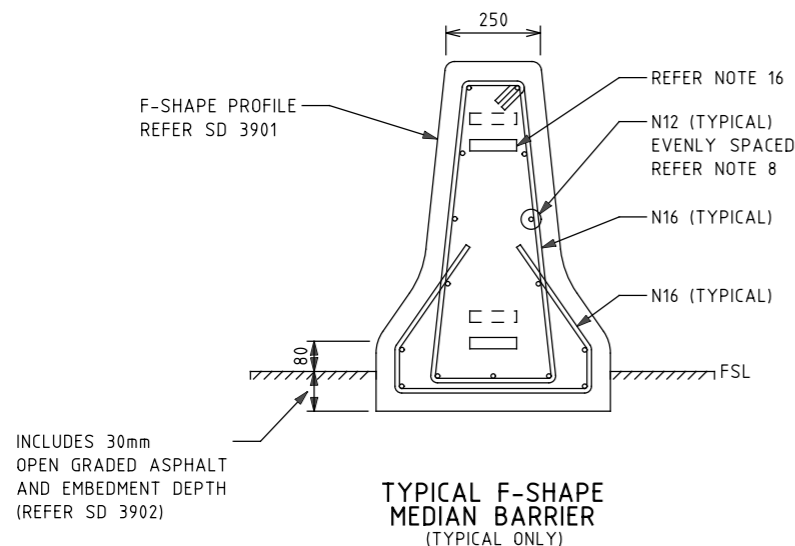
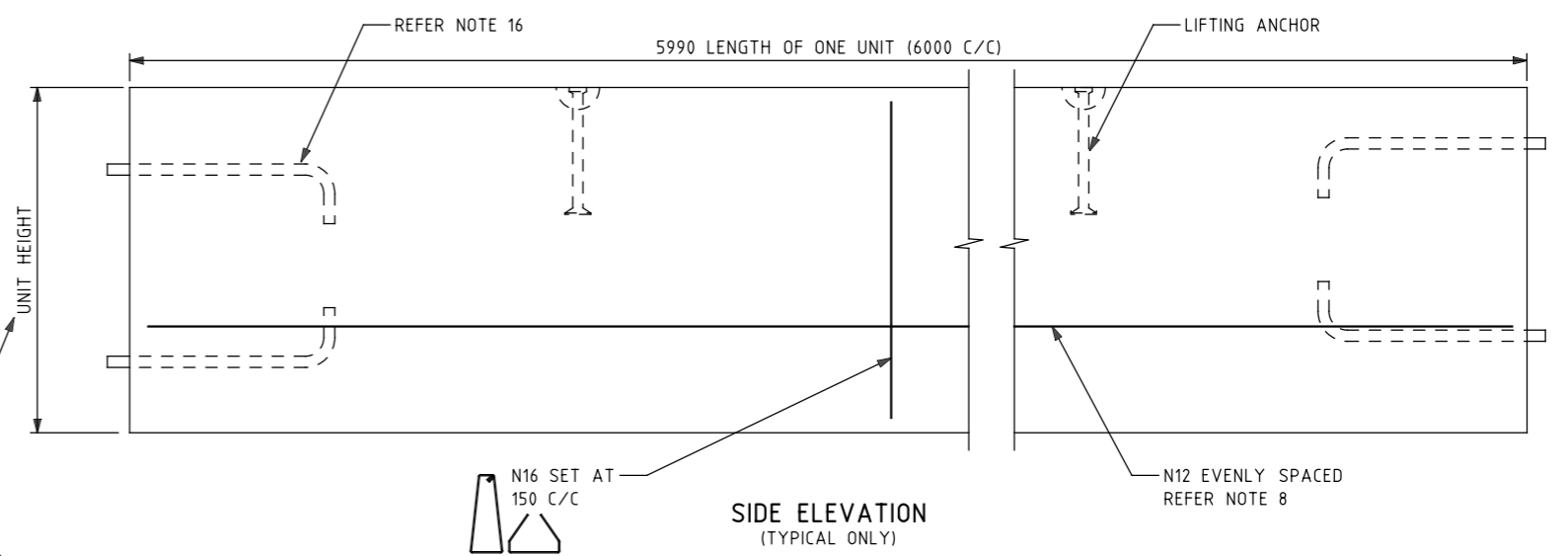


ISSUE	APPROVED BY	DATE	AMENDMENT
A	M-SSE	03/19	FORMATTING AND MINOR AMENDMENTS

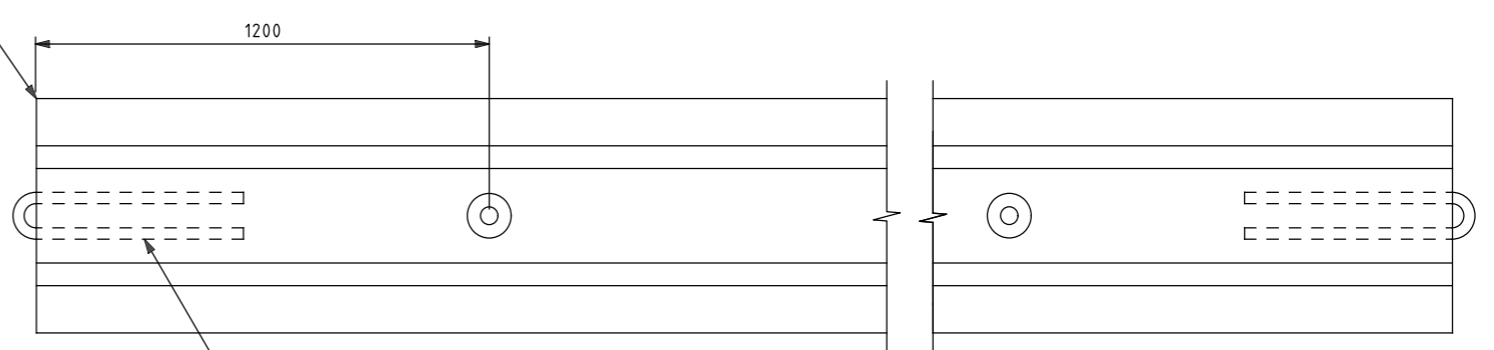


INCLUDES BARRIER HEIGHT (H), 30mm OPEN GRADED ASPHALT AND EMBEDMENT DEPTH (REFER SD 3902)



SIDE ELEVATION (TYPICAL ONLY)

FOR A CERTAIN RADII, THE ANGLE OF BARRIERS ENDS MUST BE ADJUSTED TO SUIT.



PLAN (TYPICAL ONLY)

FSL FINISHED SURFACE LEVEL
D EMBEDMENT DEPTH (REFER SD3902)

PROFILE AND INSTALLATION:

1. CONCRETE BARRIER PROFILE TO BE IN ACCORDANCE WITH SD3901. CONCRETE BARRIERS MUST BE ADEQUATELY INSTALLED, IN ACCORDANCE WITH SD3902.

CONSTRUCTION (MANUFACTURE):

2. CONCRETE BARRIER CONSTRUCTION METHOD MUST BE PRECAST.
3. F-SHAPE BARRIER CONSTRUCTION REQUIRES A SITE SPECIFIC DESIGN AND APPROVAL, CONSIDERING ALL SHAPE (SD3901) AND INSTALLATION (SD3902) REQUIREMENTS.

CONCRETE:

4. GRADE MUST BE VR330/32 IN ACCORDANCE WITH SECTION 610 OF VICROADS SPECIFICATIONS.
5. EXPOSURE CLASSIFICATION MUST BE B1 MINIMUM.
6. SURFACE FINISH MUST BE CLASS 3 IN ACCORDANCE WITH SECTION 610 OF VICROADS SPECIFICATIONS.

REINFORCEMENT:

7. DESIGN OF REINFORCING STEEL MUST BE IN ACCORDANCE WITH AS 5100.5-CONCRETE. CROSS SECTIONS ARE TYPICAL.
8. NUMBER OF LONGITUDINAL REINFORCEMENT BARS MUST BE DETERMINED IN ACCORDANCE WITH AS5100.5-CONCRETE.
9. COVER: 40mm IN ACCORDANCE WITH AS5100.5-CONCRETE.
10. SPACING: EQUAL UNLESS NOTED OTHERWISE.
11. GRADE: 500 (NORMAL DUCTILITY) TO AS/NZS4671. (N) DENOTES HIGH STRENGTH STEEL REINFORCING DEFORMED BARS.
12. WELDING: NOT PERMITTED.

LIFTING:

13. LIFTING ANCHORS MUST BE HOT DIP GALVANISED IN ACCORDANCE WITH AS/NZS4680. WEIGHT OF BARRIER TO BE DETERMINED BY MANUFACTURER.
14. A SPREADER MUST BE USED TO ENSURE THAT SLINGS ARE ALWAYS VERTICAL DURING LIFTING AND PLACING OF BARRIER UNITS.
15. MINIMUM COVER TO REINFORCEMENT MUST BE MAINTAINED AT LIFTING ANCHOR RECESS.

CONNECTIONS:

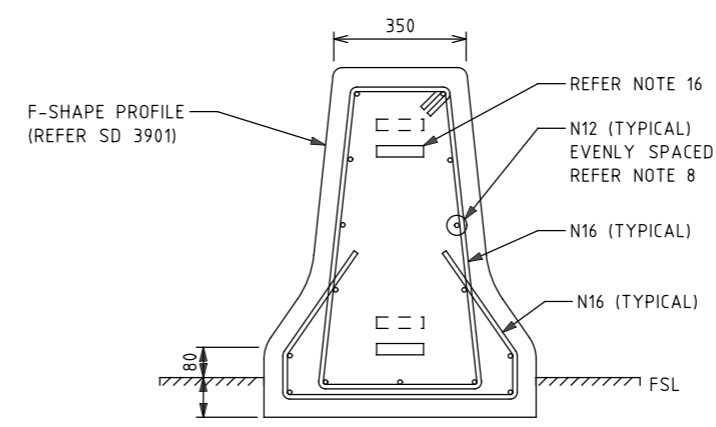
16. PIN AND LOOP SHOWN ON THIS DRAWING FOR DIAGRAMMATIC PURPOSES, REFER TO SD3904 FOR DETAILS. CONNECTIONS MUST BE DESIGNED IN CONJUNCTION WITH THE REINFORCEMENT TO PREVENT CLASH.

BRIDGES:

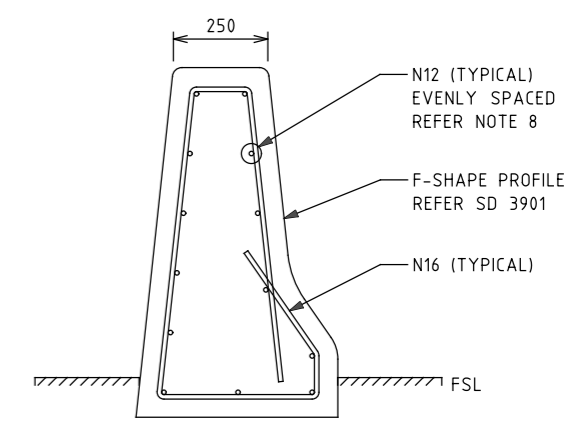
17. PERFORMANCE LEVEL BARRIERS MUST BE DESIGNED TO FULLY COMPLY WITH THE REQUIREMENTS OF AS5100 IRRESPECTIVE OF THESE DRAWINGS.
18. FOR THE DESIGN OF PERFORMANCE LEVEL BARRIERS, NO CONSIDERATION SHALL BE MADE OF TEST LEVELS OR THE IMPLIED EQUIVALENCE OF TEST LEVELS TO PERFORMANCE LEVELS THAT IS GIVEN IN TABLE 14.4 OF AS5100.1.

OTHER:

19. PROVISIONS FOR DRAINAGE (E.G. DRAINAGE SLOTS) REQUIRE A SITE SPECIFIC DESIGN.
20. REFER TO CONTRACT SPECIFICATION FOR ELECTRICAL CONDUIT REQUIREMENTS. CONDUITS MUST NOT COMPROMISE THE STRUCTURAL INTEGRITY OF THE CONCRETE BARRIER. EASE OF GROUTING MUST BE CONSIDERED.



TYPICAL F-SHAPE MEDIAN BARRIER (350mm WIDE) (TYPICAL ONLY)



TYPICAL F-SHAPE VERGE BARRIER (TYPICAL ONLY)

DISCLAIMER
THIS DRAWING DOES NOT COVER PERFORMANCE LEVEL BARRIERS WHICH SHALL BE DESIGNED TO FULLY COMPLY WITH THE REQUIREMENTS OF AS5100 IRRESPECTIVE OF THESE DRAWINGS

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ROAD SAFETY BARRIERS
CONCRETE BARRIERS - F-SHAPE
MANUFACTURE - PRECAST

NOT TO SCALE
APPROVED M-SSE
02/2019
SD NO. SD3903
ISSUE A

VicRoads Drawing No. 720419

REFERENCES AND NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS SHOWN OTHERWISE.