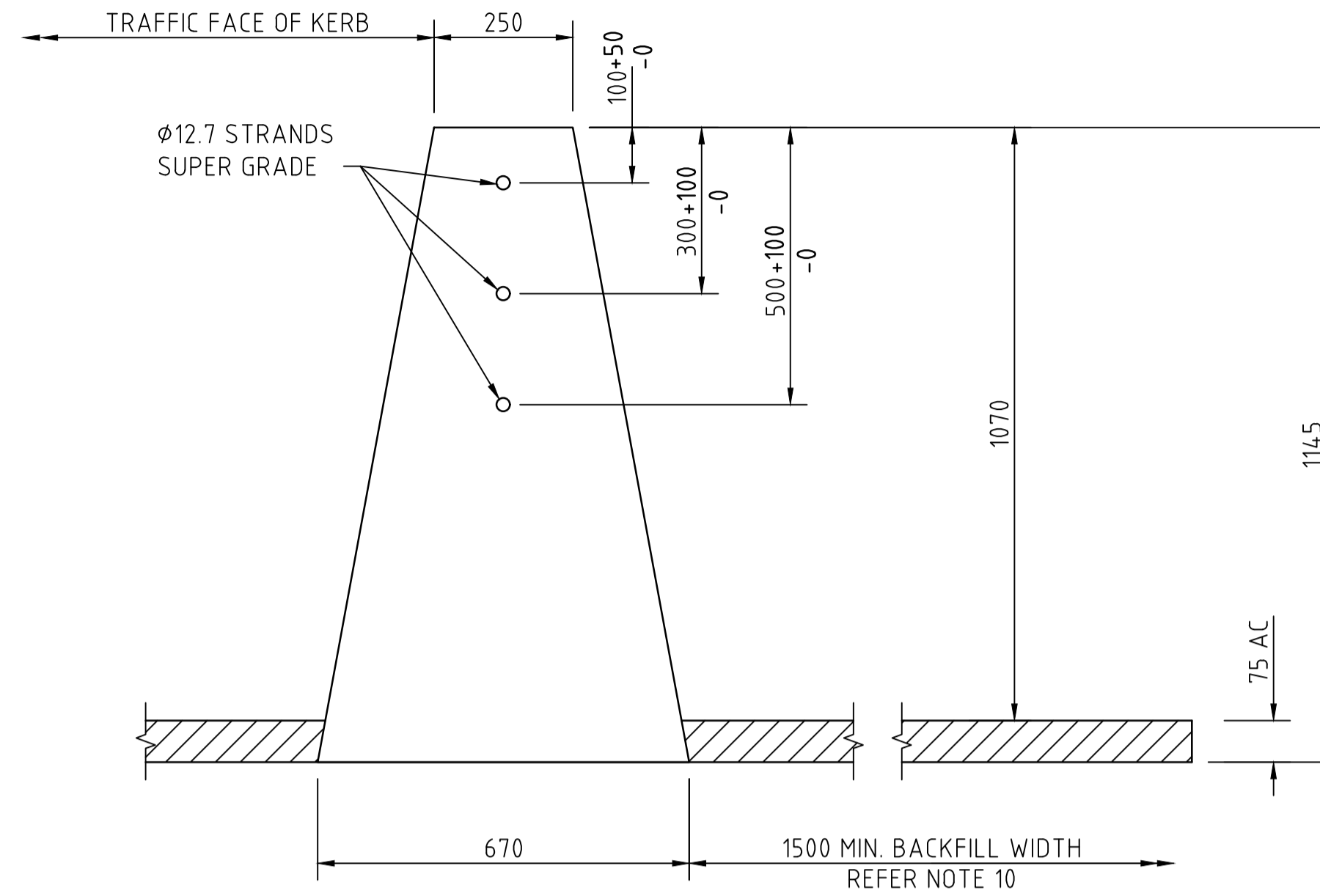
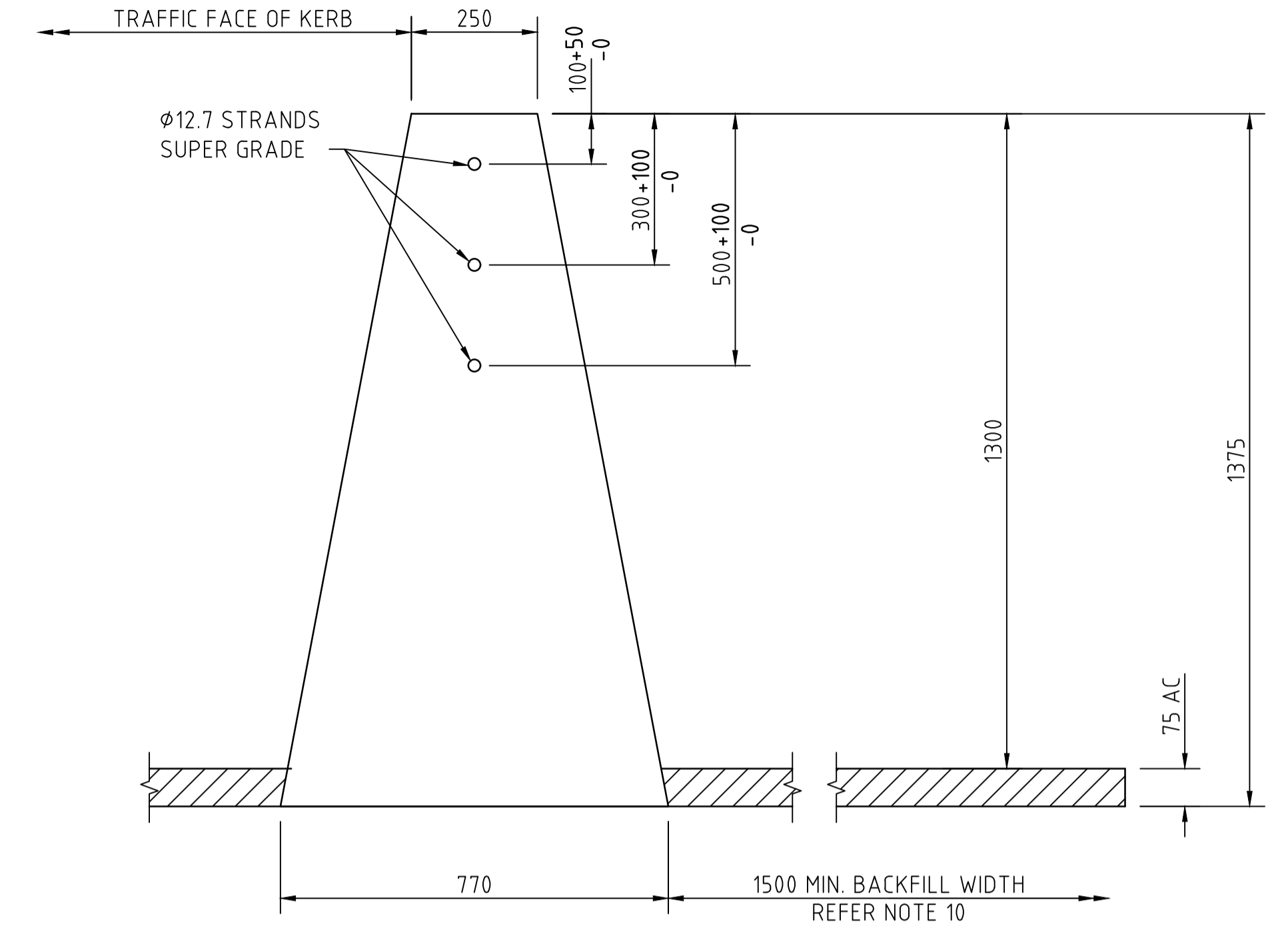


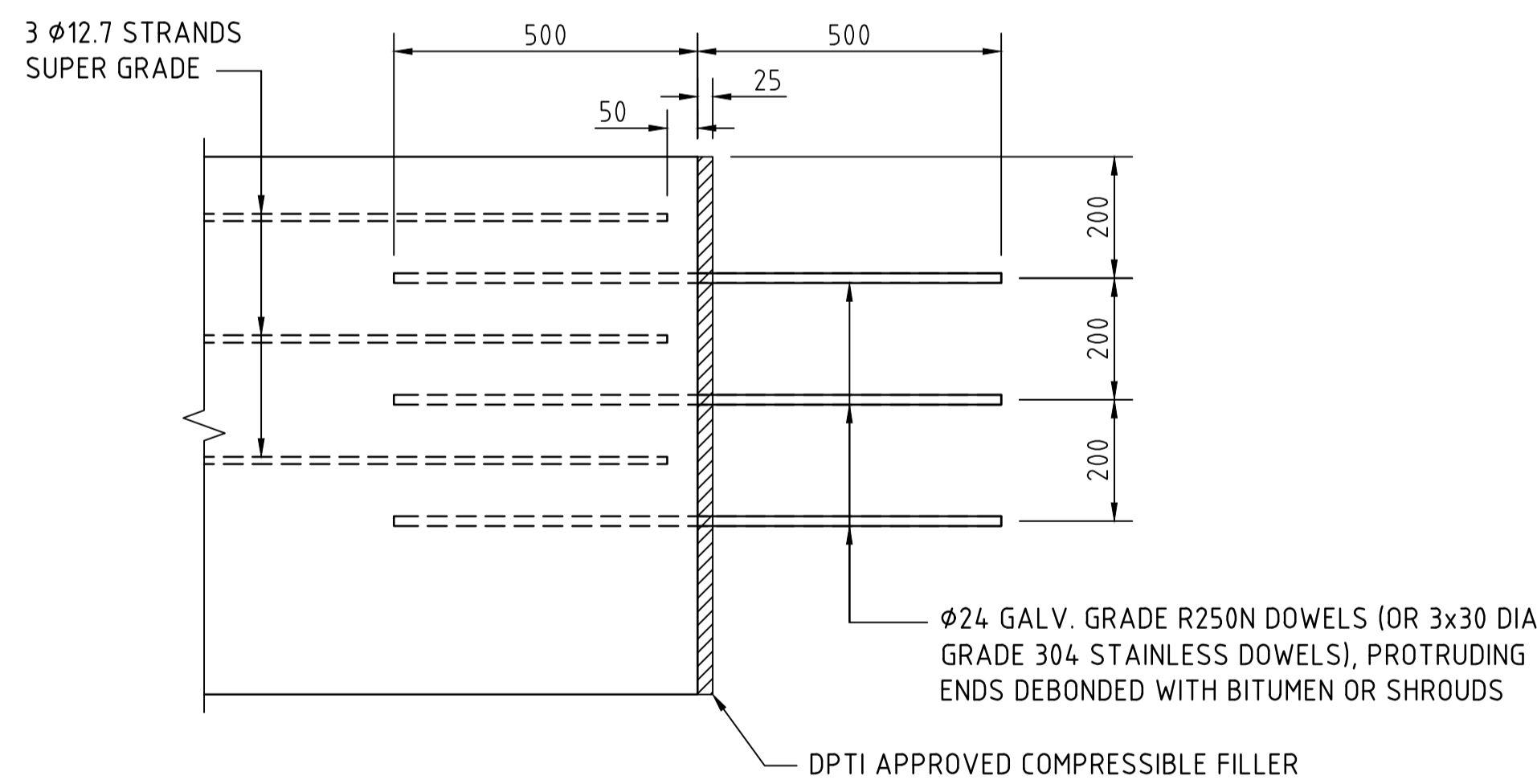
EXTRUDED BARRIER - TL4, 810mm HIGH  
SCALE 1:10



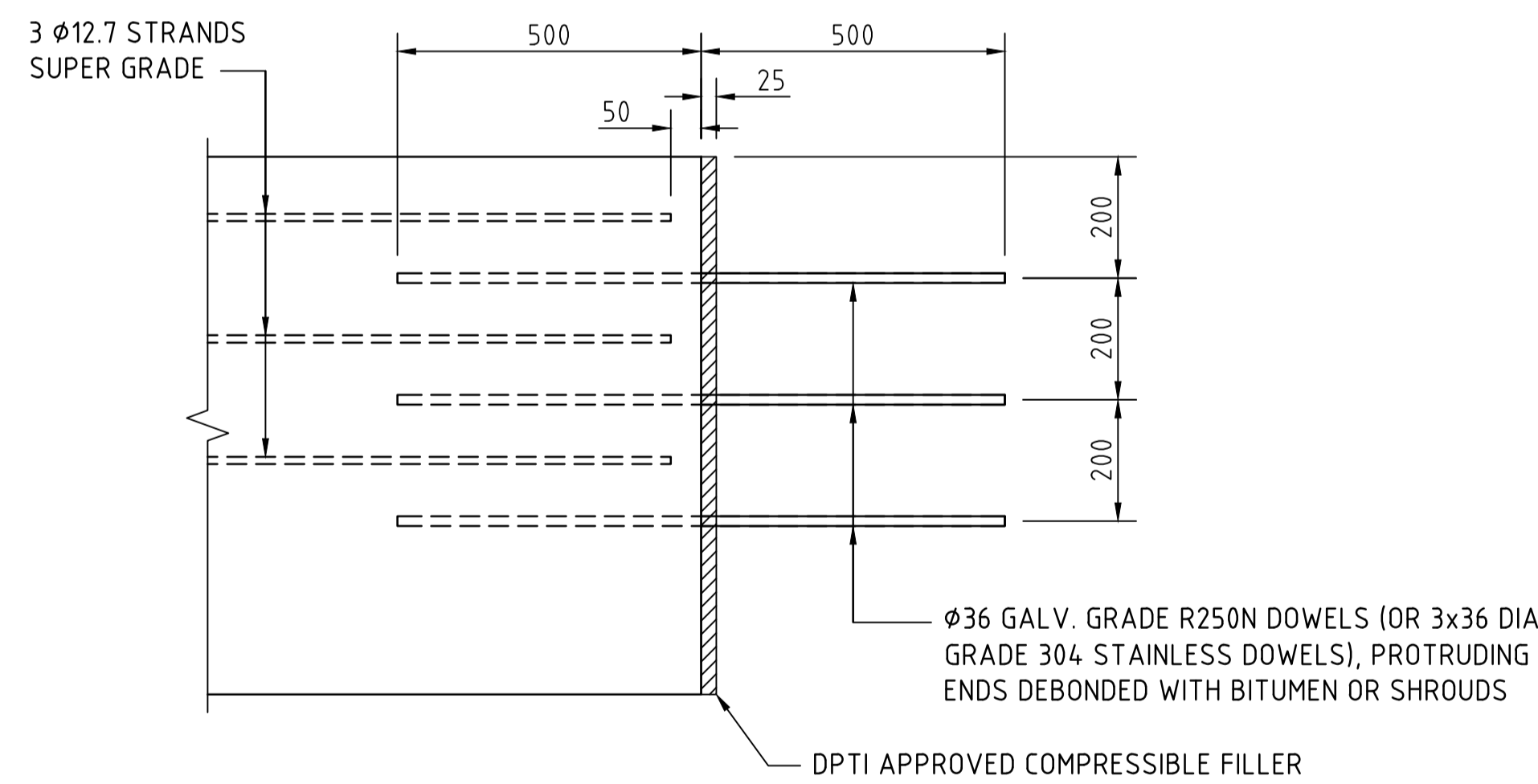
EXTRUDED BARRIER - TL5, 1070mm HIGH  
SCALE 1:10



EXTRUDED BARRIER - TL5, 1300mm HIGH  
SCALE 1:10



EXPANSION JOINT - TL4  
SCALE 1:NTS



EXPANSION JOINT - TL5  
SCALE 1:NTS

NOTES

- CONCRETE GRADE FOR EXTRUDED BARRIERS SHALL BE N32 FIBRE CONCRETE IMPREGNATED WITH 50mm VIRGIN POLYPROPYLENE FIBRILLATED FIBRES (SIKA CONFIBRE 51F, OR SIMILAR APPROVED) AT THE RATE OF 0.9kg/m<sup>2</sup>. STEEL FIBRES SHALL NOT BE PERMITTED AS AN ALTERNATIVE.
- LONGITUDINAL REINFORCEMENT COMPRISING 3/12.7 DIA. SUPER GRADE STRANDS TO AS 1311, SHALL EXTEND FOR THE ENTIRE LENGTH OF THE BARRIER, WITH 50mm COVER AT OPENINGS, EXPANSION JOINTS AND AT ENDS. GALVANIZED STRANDS MAY BE USED.
- CRACK CONTROL JOINTS IN EXTRUDED BARRIERS ARE TO BE FORMED BY NEATLY SAW CUTTING 50mm DEEP INTO TOP AND BOTH SIDE FACES OF THE BARRIER. TIME OF SAW CUTTING TO BE DETERMINED TO AVOID SHRINKAGE CRACKING BUT MUST BE WITHIN 12 HOURS OF EXTRUSION. JOINTS ARE TO BE AT MAXIMUM OF 4.0m CENTRES.
- EXPANSION JOINTS ON EXTRUDED BARRIERS SHALL BE PROVIDED AT THE END OF EACH DAYS WORK. BARRIERS SHALL HAVE EXPANSION JOINTS AT 200m MAXIMUM INTERVALS. EXPANSION JOINTS SHALL ALSO BE PROVIDED BETWEEN THE EXTRUDED CONCRETE BARRIER AND THE BARRIER TERMINAL.
- CHAMFERS FOR EXTRUDED BARRIERS SHALL BE 15x15mm OR 25mm RADIUS.
- BARRIER MOUNTED DELINEATORS SHALL BE DPTI APPROVED.
- BARRIER CENTERLINE TO BE VERTICAL REGARDLESS OF CROSSFALL OR SUPERELEVATION.
- PROVISION FOR DRAINAGE ACROSS BARRIER (IF REQUIRED) SHALL BE DPTI APPROVED.
- EXTRUDED BARRIERS SHALL NOT BE USED ON BRIDGE DECKS
- BARRIER EMBEDMENT TO BE 75mm ASPHALT (PRIMED AND PREPARED TO DPTI SPECIFICATION R21) OR DPTI APPROVED EQUIVALENT AS FOLLOWS:
  - 150mm DEEP EMBEDMENT IN CEMENT STABILIZED - 1MP<sub>a</sub> CONTROLLED LOW STRENGTH MATERIAL (CLSM) ON COMPACTED VERGE MATERIAL (96% MOD. COMPACTION, 20 OR 40mm QUARRY WASTE) WITH A MINIMUM WIDTH OF 1.5M FROM THE BACK OF THE BARRIER TO THE BATTER HINGE POINT.
  - 225mm DEEP EMBEDMENT IN COMPACTED VERGE MATERIAL (96% MOD. COMPACTION, 20 OR 40mm QUARRY WASTE) WITH SPRAY SEAL SURFACE TREATMENT AND A MINIMUM WIDTH OF 1.5M FROM THE BACK OF THE BARRIER TO THE BATTER HINGE POINT.
  - 75mm MINIMUM THICKNESS UNREINFORCED CONCRETE SLAB WITH A MINIMUM WIDTH OF THE 1.5M FROM THE BACK OF THE BARRIER.

NOTE: THESE EQUIVALENT BACKFILL OPTIONS/DEPTHS CAN ONLY BE USED WHERE THE BACKFILL IS NOT TRAFFICKED.
- SLIP FORMED TOLERANCES (CONCRETE FINISHED SURFACES):
  - VERTICAL -0mm, +20mm
  - HORIZONTAL ±15mm
  - SURFACE DISTORTION ALONG 3000mm STRAIGHT EDGE, (10mm MAX) AFTER ALLOWING FOR CURVES
  - ALL OTHER SLIP FORMED TOLERANCES AS PER TABLE 5.7.5, AS3845.1 (2015).



Government of South Australia

Department for Transport, Energy and Infrastructure

EXTRUDED CONCRETE BARRIER STANDARD

TL4 & TL5 SINGLE SLOPE EXTRUDED BARRIER

DESIGNED: TP	DRAFTED: SA	ACCEPTED FOR USE: PHIL MOLLOY	ACCEPTANCE FORM KNET No.: 12675652	DRAWING No.: 4064	SHEET No.: 4	AMEND No.: 0
CHECKED: TP	REVIEWED: PM	PRINCIPAL STRUCTURAL ENG. DATE: 6/8/19	UNCONTROLLED COPY WHEN PRINTED			

FILE: V:\Approved Drawings\_For\_Submission\4064\4.064\_Sheet 0004-AMD 0.dwg

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No. AMENDMENT DESCRIPTION BY CHECK ACCEPTANCE DATE 100 MILLIMETRES ON ORIGINAL DRAWING ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE