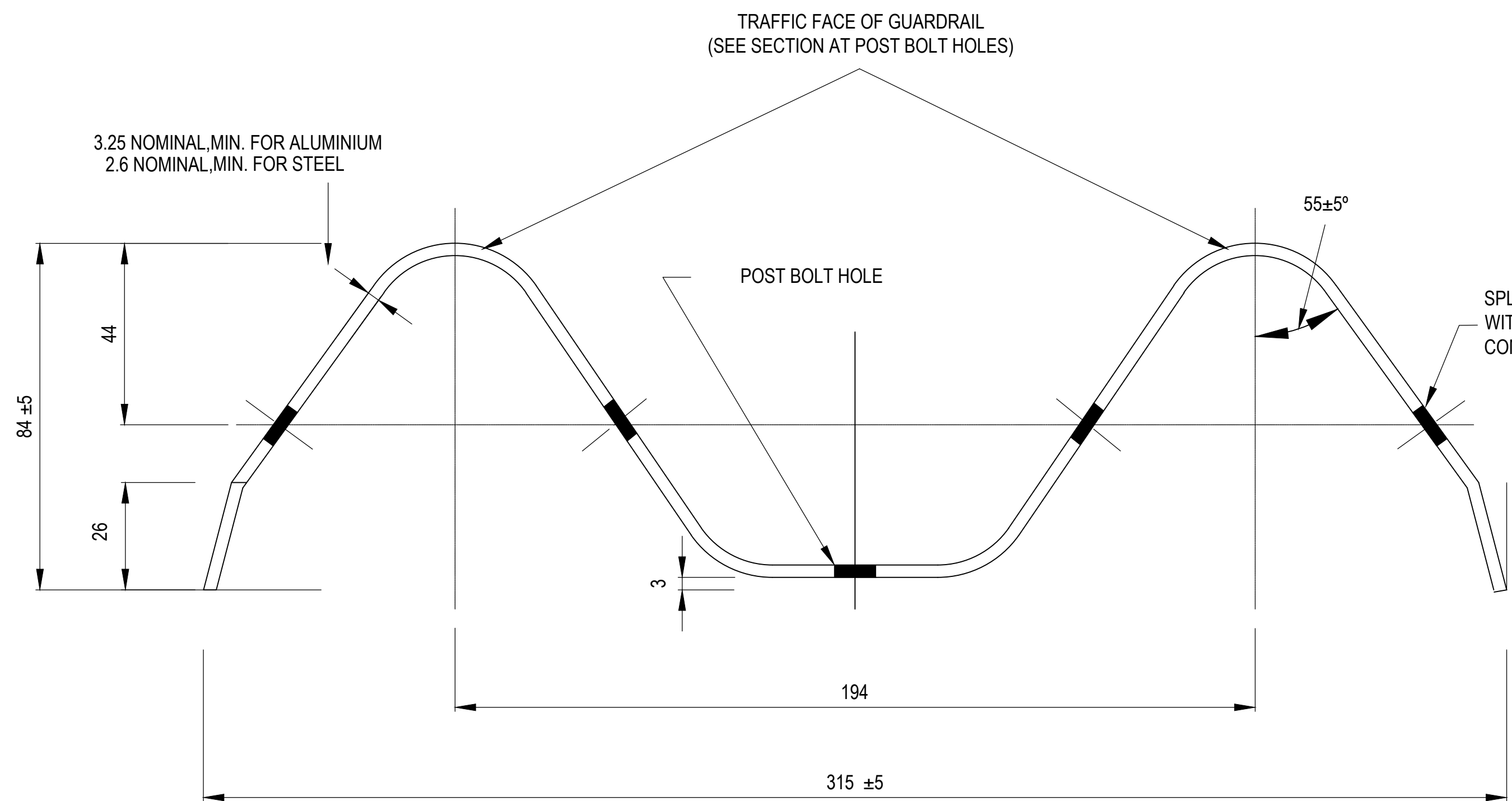
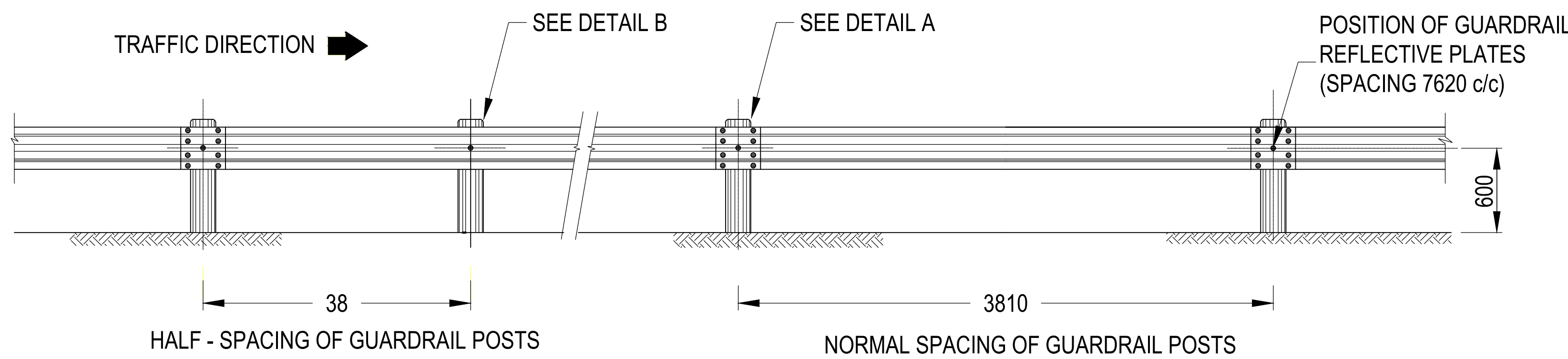


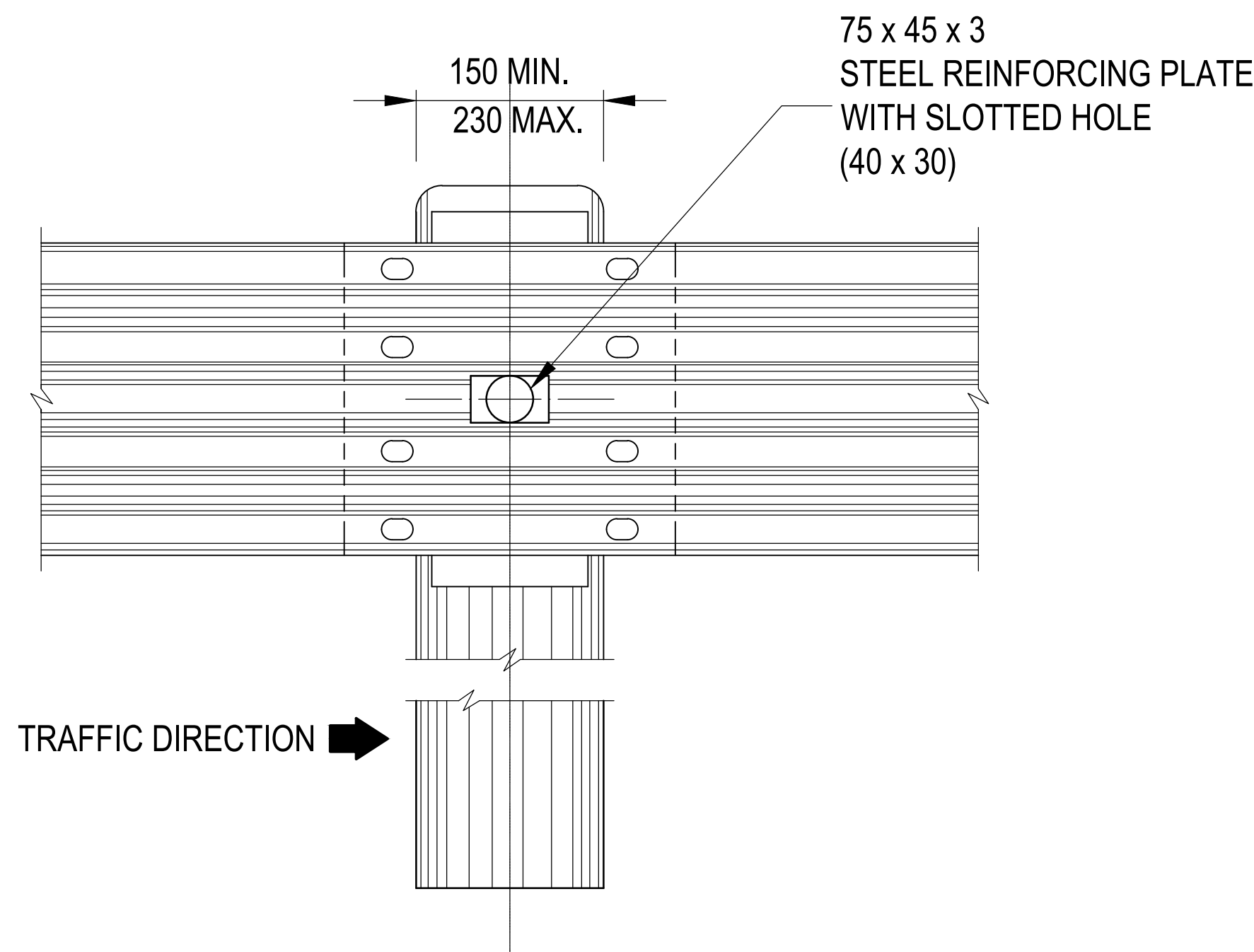
TYPICAL GUARDRAIL SECTION
SCALE 1:10



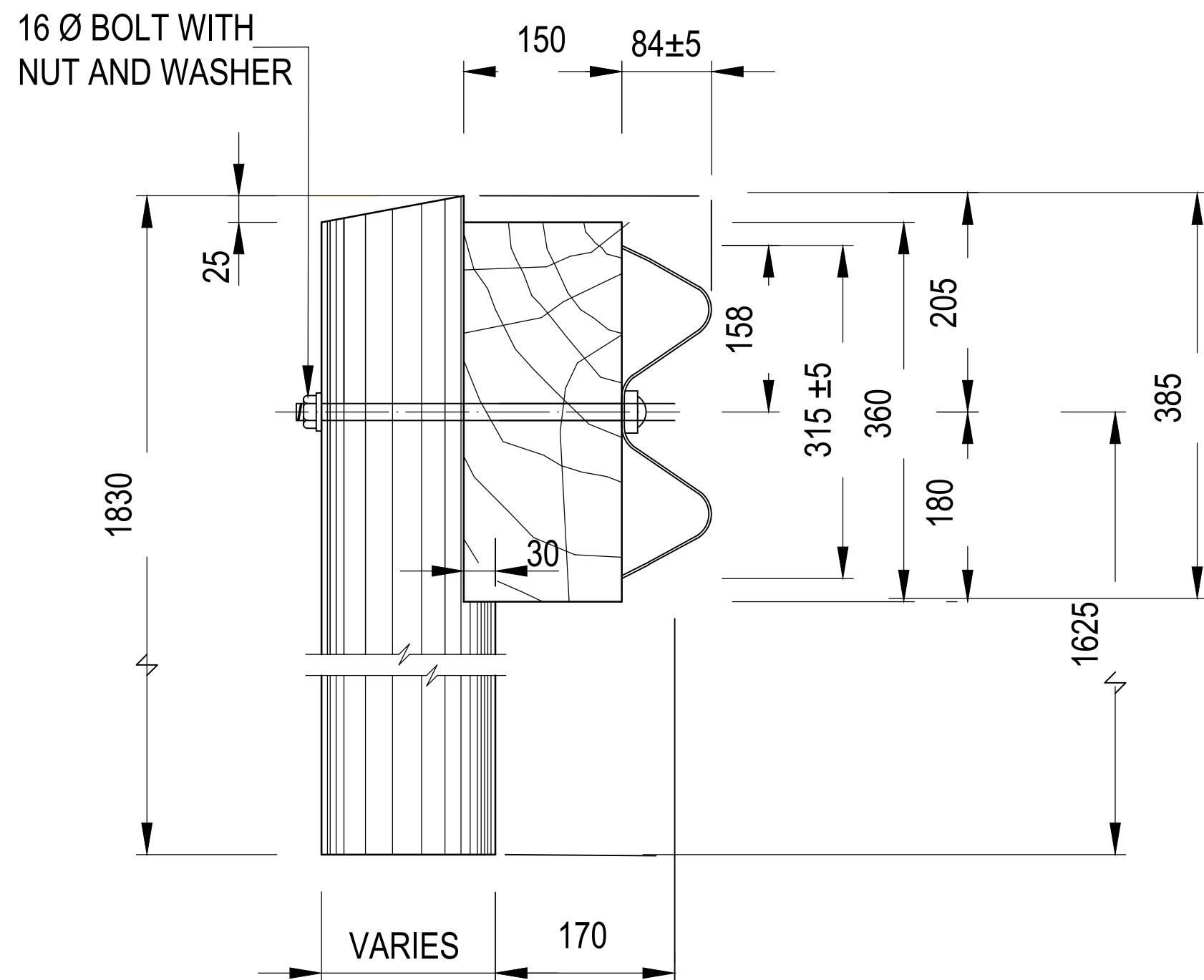
SECTION THROUGH GUARDRAIL
SCALE 1:1



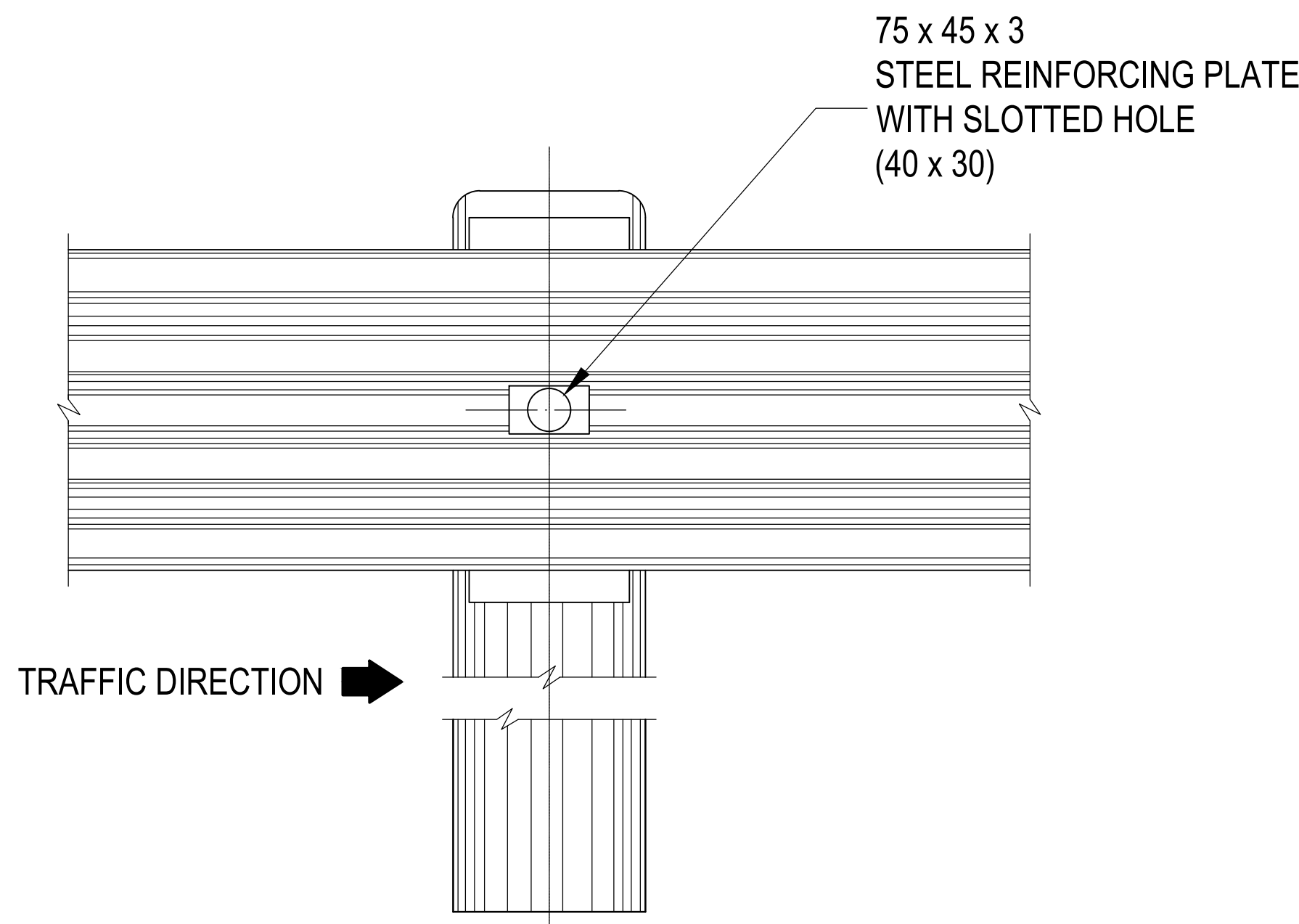
SPACING OF POSTS AND POSITIONS ON REFLECTIVE
SCALE 1:500



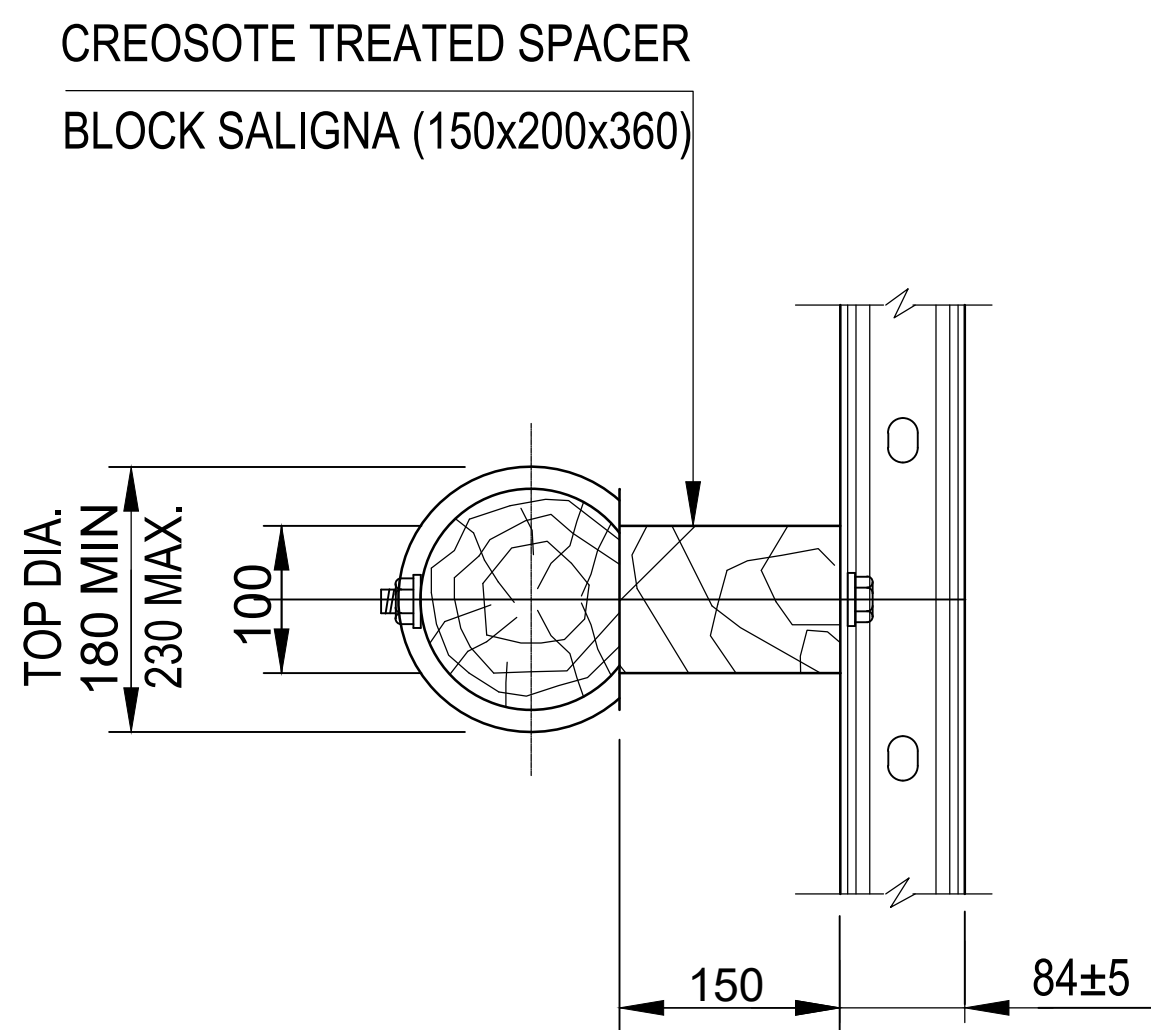
DETAIL A: FRONT ELEVATION NORMAL SPACING OF POSTS
SCALE 1:10



ELEVATION OF GUARDRAIL
SCALE 1:10



DETAIL B: FRONT ELEVATION HALF SPACING OF POSTS
SCALE 1:10



PLAN
SCALE 1:10

SPECIFICATIONS

- BOLT:**
HIGH TENSILE STEEL 16 Ø
- WASHERS:**
3mm THICK
- SPACER BLOCK:**
PINE OR GUM, PRESSURE IMPREGNATED IN ACCORDANCE WITH SANS 100005 WITH CREOSOTE WHICH COMPLIES WITH SANS 538 OR 539
- POSTS:**
180 Ø MIN - 230 Ø MAX, SALIGNA (BLUEGUM), PRESSURE IMPREGNATED IN ACCORDANCE WITH SANS 100005 WITH CREOSOTE WHICH COMPLIES WITH SANS 538 OR SANS 539.
- GALVANIZING:**
GUARDRAILS:(SANS 121/ISO 1461): TYPE A1 ARTICLES.BOLTS AND WASHERS: (SANS 121/ISO 1461) TYPE C1 ARTICLES
- TIMBER POSTS:**
POST SHALL COMPLY WITH THE REQUIREMENTS OF SANS 457 AND SHALL CARRY THE SANS MARK
- REFLECTIVE PLATES:**
THE OUTER SURFACES SHALL BE COATED WITH ENGINEERING GRADE RETRO - REFLECTIVE MATERIAL WHICH COMPLIES WITH THE PROVISION OF CKS 191 IN THE COLOURS SHOWN ON DRAWING TD-R-GR-002

NOTE:

- GUARDRAILS SHALL ONLY BE PLACED WHERE REQUIRED BY THE ENGINEER.
- ALL GUARDRAILS MUST BE GALVANIZED AS SPECIFIED (NOT PAINTED).

CONSTRUCTION RECORD				DESIGNED BY				CONSULTANT APPROVAL				HEAD OFFICE				NORTHERN REGION				ACCEPTANCE				PROJECT DESCRIPTION				PROJECT NUMBER			
WORKS CONTRACT ENGINEER				NAME				NAME				48 Tambotie Avenue Val de Grace Pretoria 0184				38 Ida Street Menlo Park Pretoria 0081				THIS ACCEPTANCE IS FOR PROCEDURAL AND ADMINISTRATIVE REVIEW PURPOSES ONLY AND DOES NOT ATTRACT LEGAL LIABILITY OR LIABILITY OF ANY KIND FROM WHATEVER CAUSE OR HOWEVER ARISING				THE REHABILITATION AND STRENGTHENING OF NATIONAL ROAD R504 SECTION 4 FROM LEEUDORINGSTAD (KM 0,0) TO NW/FS BORDER (KM 24,1)				R.504-040-2018/1F			
Name : S NAICKER				F LE ROUX				S NAICKER				PO Box 415 Pretoria 0001 South Africa Tel: (012) 844 8000				Private Bag X17 Lynnwood Ridge 0040								DRAWING NAME				ROUTE			
Prof. Reg. No. : 20040015				CHECKED BY				Prof. Reg. No. : 20040015				Date : 13 DECEMBER 2019				Date : 13 DECEMBER 2019								SECTION				START			
Date : 13 DECEMBER 2019				NAME				S VAN HUYSSTEEN																DRAWING TYPE				R504			
SANRAL PROJECT MANAGER				Prof. Reg. No. : 20040015				Date : 13 DECEMBER 2019																BRIDGE/STRUCTURE No.				04			
Name : R DERLEMAN				DRAWN BY																				CONSULTANT DRAWING No.				0.0			
Date : 13 DECEMBER 2019				NAME				O MAFARO																ROADS - LAYOUTS				24.1			
ISSUED FOR TENDER PURPOSES ONLY																								SANRAL DOCUMENT #				FA			
REVISION																								SCALE :				20215/SD/10			
V1 MAR 2022																								SHEET				VER			
DATE																								1 OF 2				V1			

THE MASTER FILED AT NYELETI PRETORIA OFFICE BEARS THE ORIGINAL SIGNATURE OF APPROVAL