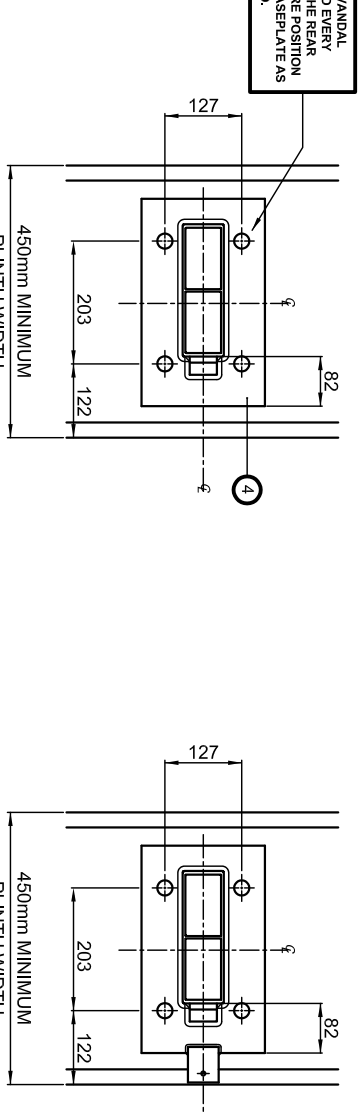


SECTION THROUGH PARAPET.

SECTION THROUGH PARAPET.



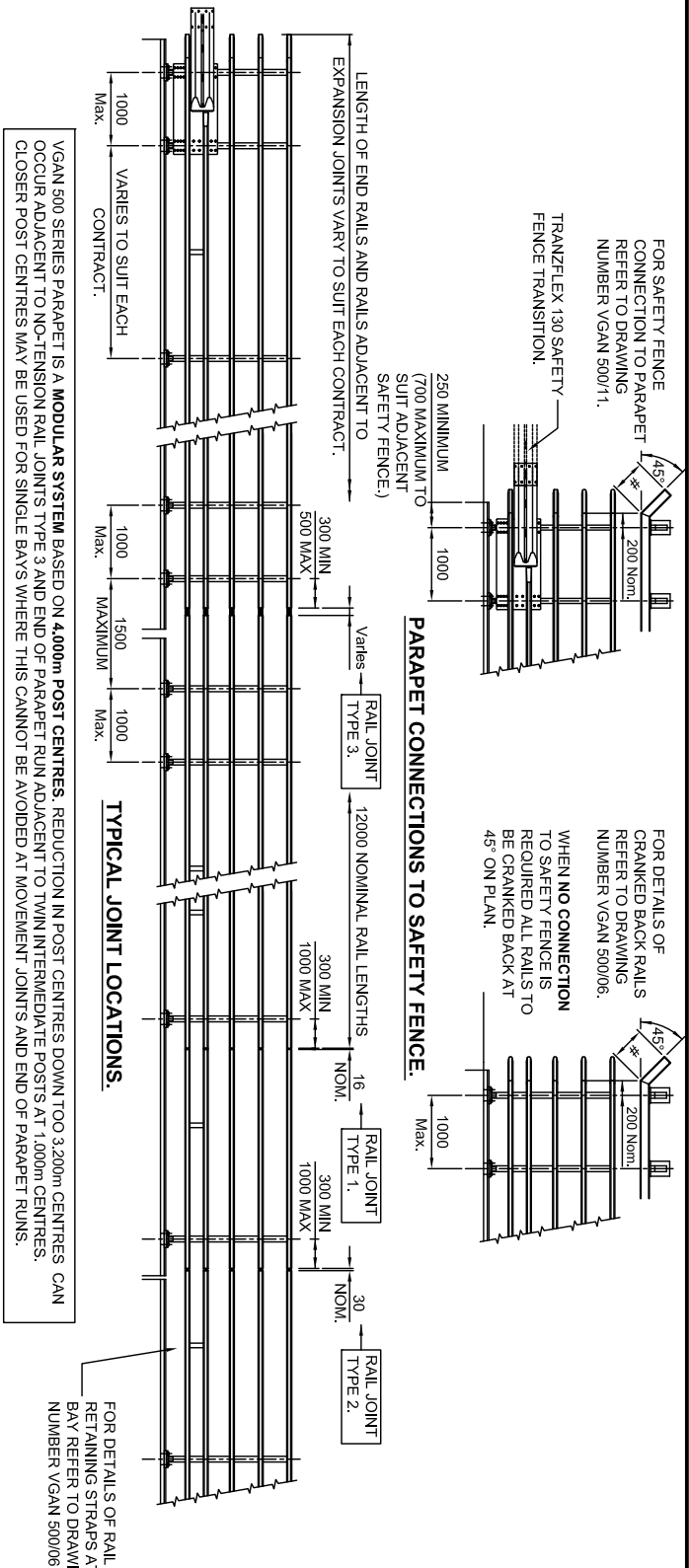
SECTION A-A.

SECTION B-B.

VGAN 500 SERIES POST INFORMATION	
UNFACTORED MOMENT OF RESISTANCE OF POST (kNm) AT UNDERSIDE OF BASEPLATE:	32.51
ULTIMATE SHEAR FORCE RESISTANCE OF POST (kN)	116.4
SIZE OF HOLDING DOWN BOLTS	M20

APPROVED ANCHORAGE UNITS	
DRAWING NUMBER	
VGAS1/1	
VGAS1/2	
VGAS1/3	
OR OTHER APPROPRIATELY APPROVED CAST-IN OR DRILLED ANCHORAGE SYSTEM.	

VGAN 500 SERIES PARAPET PERFORMANCE.	
BS. EN. 1317-1 and BS. EN. 1317-2.	
IMPACT TEST CRITERIA	TB31.
CONTAINMENT LEVEL.	N1.
WORKING WIDTH.	W2. (0.8m)
IMPACT SEVERITY LEVEL.	A.
DYNAMIC DEFLECTION.	0.6m.



TYPICAL JOINT LOCATIONS.

GENERAL NOTES.

- 1/ ALL ALUMINIUM WELDING TO BE IN ACCORDANCE WITH BS. EN. 1011-4.
- 2/ MAIN RAILS CAN BE RADIUS TO SUIT ON SITE DOWN TO MINIMUM RADIUS OF 50 METRES. TIGHTER RADIUS CAN BE SUPPLIED PREFORMED BY SPECIAL ARRANGEMENT.
- 3/ WELDERS AND WELDING PROCEDURES ARE IN ACCORDANCE WITH BS. EN. ISO 9806-2 AND BS. EN. ISO 15614-2 RESPECTIVELY. TAKE ACCOUNT OF THESE FALLS ARE PERMISSIBLE.
- 4/ DIMENSIONS RELATIVE TO HEIGHT DATUM ASSUME THERE IS NO LONGITUDINAL FALL ON THE PLINTH. ADDITIONAL TOLERANCES TO TAKE ACCOUNT OF THESE FALLS ARE PERMISSIBLE.
- 5/ FABRICATION TO BE IN ACCORDANCE WITH BS.8118-2.
- 6/ AN EASILY LEGIBLE IDENTIFICATION PLATE SHALL BE APPLIED AND LOCATED NEAR TO THE TOP OF THE FIRST POST AT EACH APPROACH END IN AN EASILY VISIBLE POSITION.

MATERIAL SPECIFICATION.		
ITEM	SPECIFICATION	ITEM
MAIN RAIL.	ALL EXTRUSIONS ARE TO BE ALUMINIUM ALL OY EN AW6082 T6 IN ACCORDANCE WITH BS. EN. 573-4, BS. EN. 573-3, BS. EN. 573-1, BS. EN. 755-5, BS. EN. 755-2 AND BS. EN. 755-9.	BOLTS.
RAIL JOINT.	ALL BOLTS / SETPINS TO CONFORM TO BS. 3692 AND BE STAINLESS STEEL TO BS. EN. ISO. 3506-4 GRADE A4/80.	NUTS.
POST SECTION.	BS. EN. 573-4, BS. EN. 573-3, BS. EN. 573-1, BS. EN. 755-5, BS. EN. 755-2 AND BS. EN. 755-9.	PLAIN WASHERS.
BASEPLATE.	MAIN RAIL TO HAVE AN ADDITIONAL REQUIREMENT OF 10% MINIMUM ELONGATION.	WASHERS TO BE M20 FORM 'B' AND M12 FORM 'A' CONFORMING TO BS. 4320 AND BE STAINLESS STEEL TO BS. EN. ISO. 3506 GRADE A4 OR A2.
POST GUSSET.		
RAIL CLAMP BAR.		
RAIL CLEAT.		

LIST OF ADDITIONAL REFERENCE DRAWING FOR THE VGAN 500 PARAPETS	
DRAWING NUMBER	TITLE
VGAN 500 / 06.	RAIL CONNECTION DETAIL S.
VGAN 500 / 07.	PARAPET POST DETAILS.
VGAN 500 / 08.	PARAPET MESHING DETAILS.
VGAN 500 / 09.	SHEETING AND MESHING DETAILS OF VGAN 510.
VGAN 500 / 10.	ANTIACCESS PANNELLING.
VGAN 500 / 11.	CONNECTION TO SAFETY FENCE.

SECTION SCHEDULE	
1	MAIN RAIL SECTION 38195
2	RAIL JOINT SECTION 38319
3	POST SECTION 38639
4	BASEPLATE SECTION 129002
5	GUSSET SECTION 120501
6	CLAMP BAR SECTION 38137
7	RAIL CLEAT SECTION 120095

M20 HOLDING DOWN SETSCREWS / BOLTS TO HAVE A MINIMUM ENGAGEMENT OF 25mm WITH VGAS ANCHORAGES.

ANCHORAGE SUPPLIER TO CONFIRM MINIMUM ENGAGEMENT.

M20 STAINLESS STEEL WASHER, FORM 'B' UNDER THE BOLT HEAD.

AFTER THE GROUT HAS HARDENED THE TORQUE TO THE HOLDING DOWN BOLTS MAY BE ADJUSTED AS NECESSARY BUT MUST NOT EXCEED 70Nm.

UNDERSIDE OF BASEPLATE TO RECEIVE 2 COATS OF BITUMASTIC PAINT OR PITCH TO BS. 3416, APPLIED TO A SURFACE WHICH HAS BEEN CLEANED AND DEGREASED IN ACCORDANCE WITH BS. 8118-2.

BEDDING GROUT MUST BE A NON-SHRINK CEMENTITIOUS GROUT WITH A MINIMUM COMPRESSIVE STRENGTH OF 50N/mm².

122 TO TRAFFIC FACE. (IMPORTANT)

M20 NYLON TOP HAT WASHER BETWEEN WASHER AND BASEPLATE.

ENLARGED VIEW ON HOLDING DOWN BOLT.

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TITLE: STANDARD ARRANGEMENT DRAWINGS OF VGAN 500 SERIES ALUMINIUM PARAPET SYSTEM.
 DRAWING NUMBER: VGAN 500 - 05.C.

SCALE: P.G.H. DATE: 01/06/2006
 DWN: P.G.H. CHK: D.V.C.

W/O No. []
 DRAWING TO BE RETURNED TO DRAWING OFFICE ON COMPLETION OF WORK.