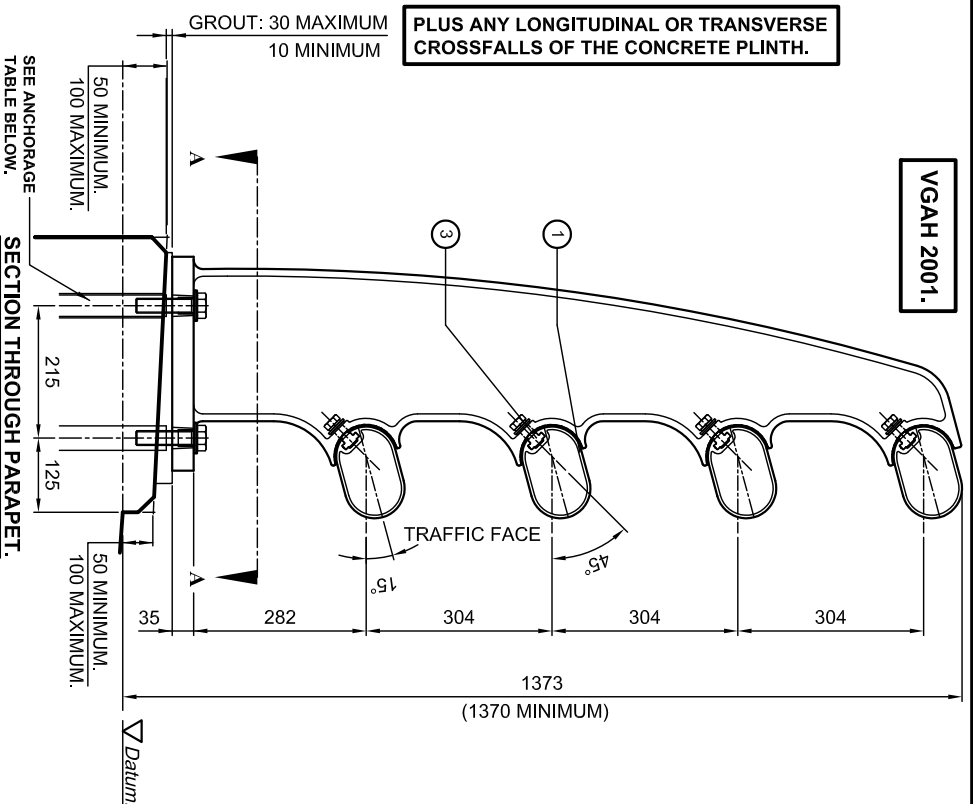
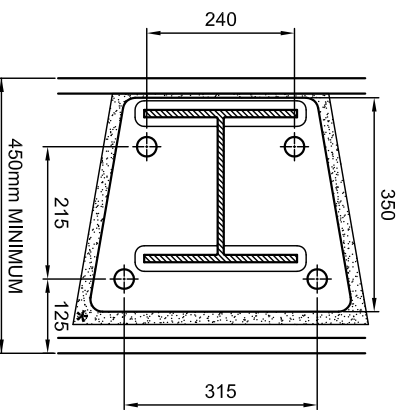


**VGAH 2001.**



**PLUS ANY LONGITUDINAL OR TRANSVERSE CROSSFALLS OF THE CONCRETE PLINTH.**

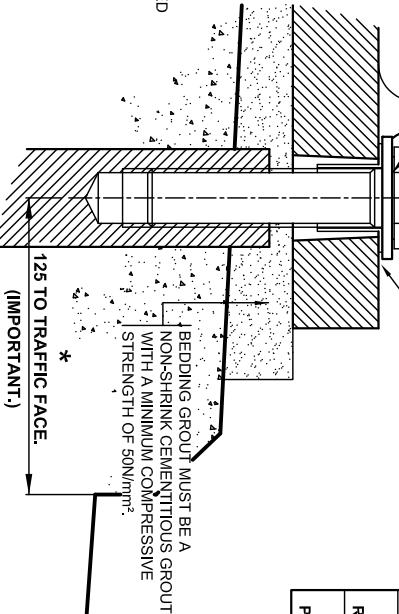


M24 HOLDING DOWN SETSCREWS / BOLTS TO HAVE A MINIMUM ENGAGEMENT OF 25mm WITH VGAS ANCHORAGE. SUPPLIER TO CONFIRM MINIMUM ENGAGEMENT.

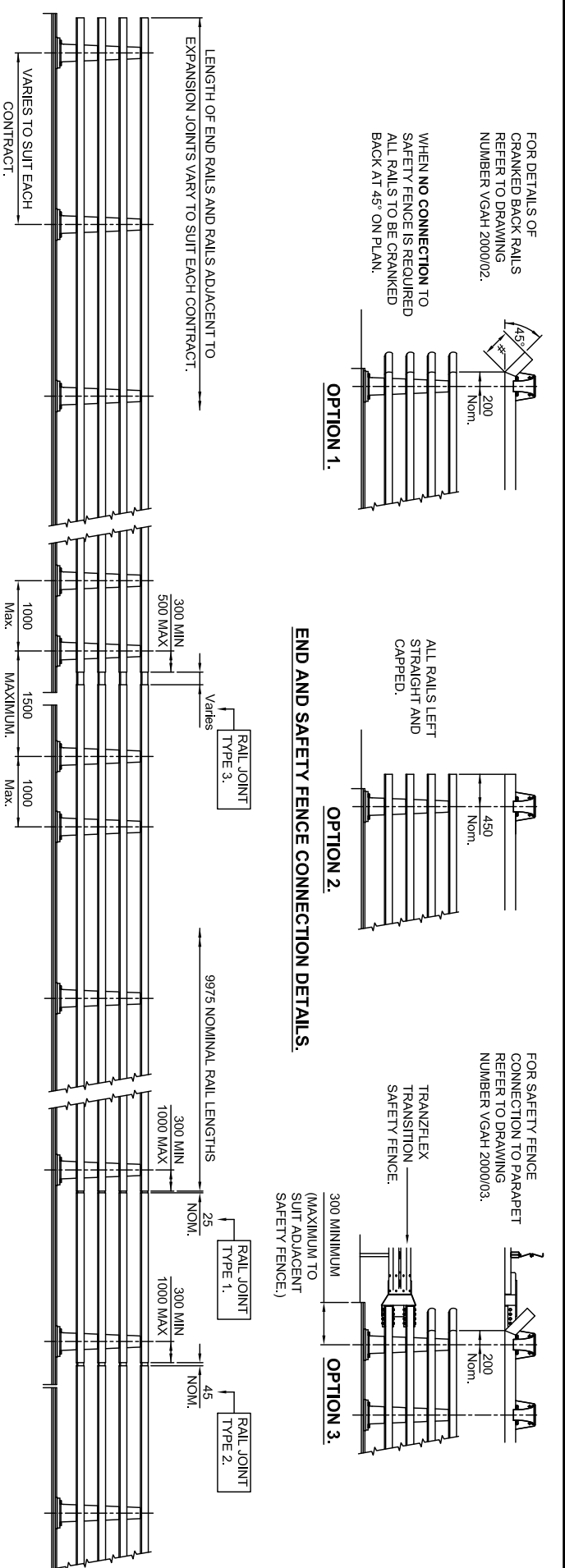
M24 STAINLESS STEEL WASHER FORM 'B' UNDER THE BOLT HEAD.

AFTER THE GROUT HAS HARDENED THE HOLDING DOWN BOLTS ARE TO BE TORQUED TO BETWEEN 50 AND 70 Nm.

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.

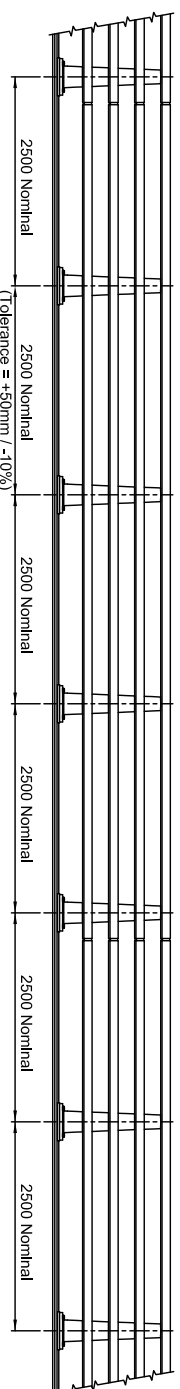


**ENLARGED VIEW ON HOLDING DOWN BOLT. (IMPORTANT)**



**END AND SAFETY FENCE CONNECTION DETAILS.**

VGAH 2000 SERIES PARAPET IS A MODULAR SYSTEM BASED ON 2.500m POST CENTRES. REDUCTION IN POST CENTRES DOWN TO 2.000m CENTRES CAN OCCUR ADJACENT TO NO-TENSION RAIL JOINTS TYPE 3 AND END OF PARAPET RUN. CLOSER POST CENTRES MAY BE USED FOR SINGLE BAYS WHERE THIS CANNOT BE AVOIDED AT MOVEMENT JOINTS AND END OF PARAPET RUNS.



**VGAH 2001 PARAPET.**

**GENERAL NOTES.**

- 1/ ALL ALUMINIUM WELDING, IF APPLICABLE, TO BE IN ACCORDANCE WITH BS.EN.1014-4.
- 2/ WELDERS AND WELDING PROCEDURES ARE IN ACCORDANCE WITH BS.EN.ISO.9606-2 AND BS.EN.ISO.15614-2 RESPECTIVELY.
- 3/ MAIN RAILS CAN BE RADUSED TO SUIT ON SITE DOWN TO MINIMUM RADIUS OF 150 metres. TIGHTER RADIUS CAN BE SUPPLIED PERFORMED BY SPECIAL ARRANGEMENT.
- 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.

**LIST OF ADDITIONAL REFERENCE DRAWING FOR THE VGAH 2000 PARAPETS**

DRAWING NUMBER	TITLE
VGAH 2000 / 02.	MAIN RAIL CONNECTION DETAILS.
VGAH 2000 / 03.	SAFETY FENCE CONNECTION DETAILS.
VGAH 2000 / 04.	MESH INFILL DETAILS (OPTIONAL).

ITEM	SPECIFICATION	ITEM	SPECIFICATION
MAIN RAIL.	ALL EXTRUSIONS ARE TO BE ALUMINIUM ALLOY EN AW6082 T6 IN ACCORDANCE WITH BS.EN.515, BS.EN.573-3, BS.EN.573-4, BS.EN.755-1, BS.EN.755-2, BS.EN.755-5, BS.EN.755-7 AND BS.EN.755-9.	BOLTS.	ALL BOLTS / SETPIPS TO CONFORM TO BS.3692 AND BE STAINLESS STEEL TO BS.EN.ISO.3506-1 GRADE A4-80.
MAIN RAIL JOINT.	POST SECTION TO BE TO ASTM B 108.	SPRING WASHERS.	ALL SPRING WASHERS TO CONFORM TO BS.4464 TYPE 'B' AND BE STAINLESS STEEL TO BS.EN.ISO.3506-2 GRADE A4 OR A2.
RAIL CLAMP NUT.	POST SECTION TO BE TO ASTM B 108.	PLAIN WASHERS.	WASHERS TO BE M24 FORM 'B' AND M16 FORM 'C' CONFORMING TO BS.4320 AND BE STAINLESS STEEL TO BS.EN.ISO.3506 GRADE A4 OR A2.

APPROVED ANCHORAGE UNITS	DRAWING NUMBER
	VGAS/9.
	VGAS/10.
	FCL 1236.3.
	OR OTHER APPROPRIATELY APPROVED CAST-IN OR DRILLED ANCHORAGE SYSTEM.

VGAH 2000 SERIES POST INFORMATION	
UNFACTORED MOMENT OF RESISTANCE OF POST (kNm) AT UNDERSIDE OF BASEPLATE.	87.15
ULTIMATE SHEAR FORCE RESISTANCE OF POST(kN)	140.35
SIZE OF HOLDING DOWN BOLTS	M24

VGAH 2000 SERIES PARAPET PERFORMANCE.	
BS.EN.1317-1 and BS.EN.1317-2.	BS.EN.1317-1 and BS.EN.1317-2.
IMPACT TEST CRITERIA.	TB11 and TB51.
CONTAINMENT LEVEL.	H2.
WORKING WIDTH.	W3. (1.0m.)
IMPACT SEVERITY LEVEL.	C.
DYNAMIC DEFLECTION.	0.8m.

SECTION SCHEDULE	
1	MAIN RAIL SECTION 110931
2	RAIL JOINT SECTION 110932
3	RAIL CONNECTION SECTION 110933

SCALE	DATE	CHK	D.V.C.
P.G.H.	15/01/2015		

THIS DRAWING TO BE USED ONLY WITH W/O.No.

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TITLE	DRAWING NUMBER
STANDARD ARRANGEMENT DRAWINGS OF VGAH 2000 SERIES ALUMINIUM PARAPET SYSTEM.	VGAH 2000 - 01.