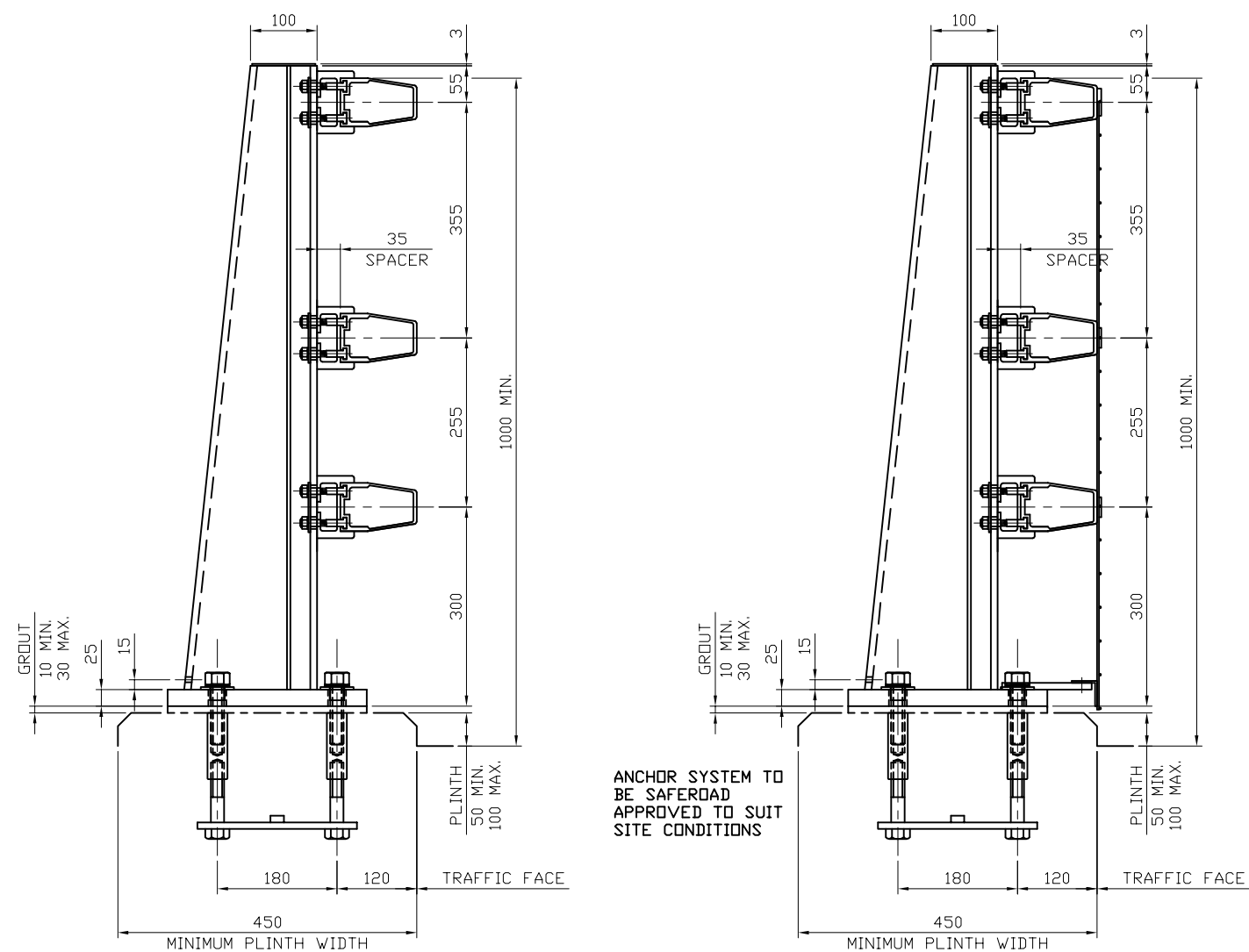


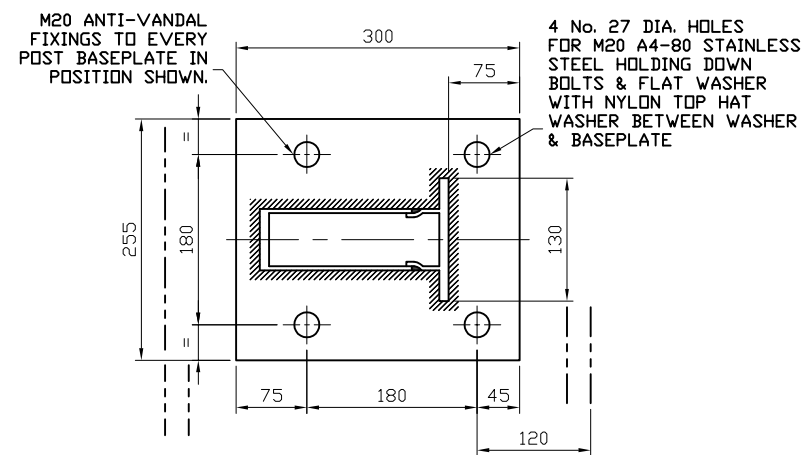
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DRAWING NOT TO BE SCALED.

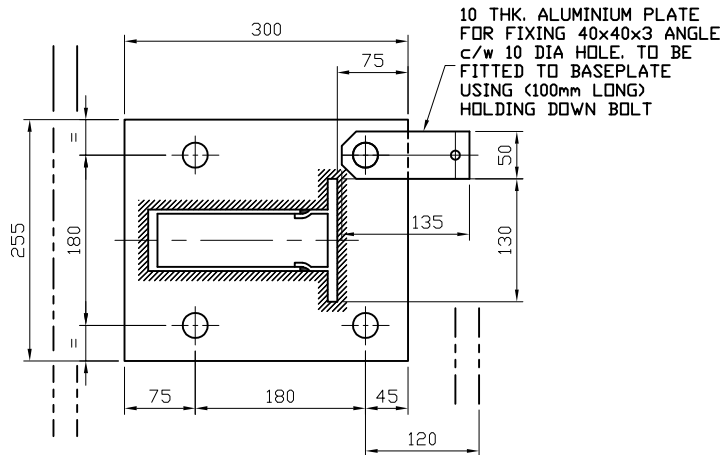


SECTION THROUGH PARAPET
PHO/N1/100/O
SCALE: 1:10

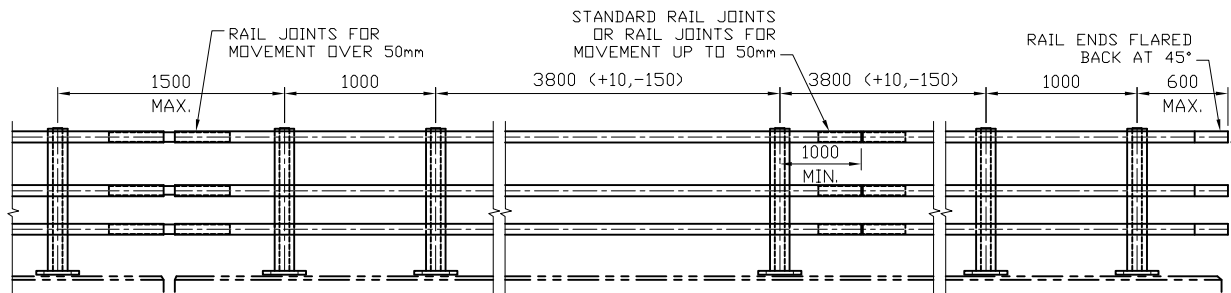
SECTION THROUGH PARAPET WITH MESH INFILL
PHO/N1/100/M
SCALE: 1:10



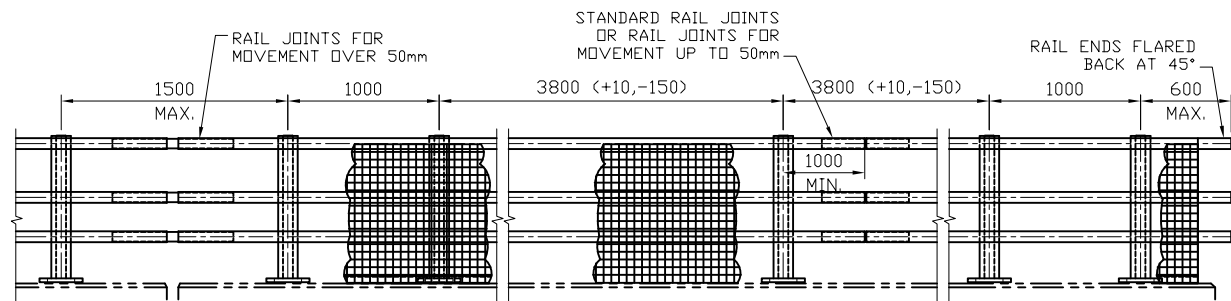
BASEPLATE DETAIL
SCALE: 1:8



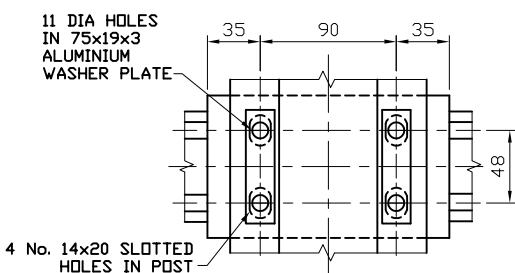
BASEPLATE DETAIL PARAPETS WITH MESH INFILL
SCALE: 1:8



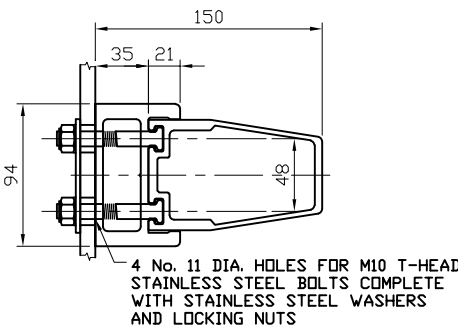
ELEVATION AND GENERAL ARRANGMENT OF PARAPET
SCALE: 1:50



ELEVATION AND GENERAL ARRANGMENT OF PARAPET WITH MESH INFILL
SCALE: 1:50



RAIL TO POST FIXING DETAIL
SCALE: 1:5



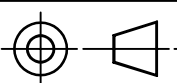
RAIL AND SPACER BRACKET SECTION
SCALE: 1:5

		PARAPET PERFORMANCE	
		IMPACT TEST CRITERIA	TB31
UNFACTORED POST BASE LOADS		CONTAINMENT LEVEL	N1
ULTIMATE UNFACTORED DESIGN MOMENT OF RESISTANCE OF POST AT UNDERSIDE OF BASEPLATE	31.4 kNm	WORKING WIDTH	W1 (0.6m)
		IMPACT SEVERITY LEVEL	A
CO-EXISTANT SHEAR	50 kN	DYNAMIC DEFLECTION	0.4m

GENERAL NOTES

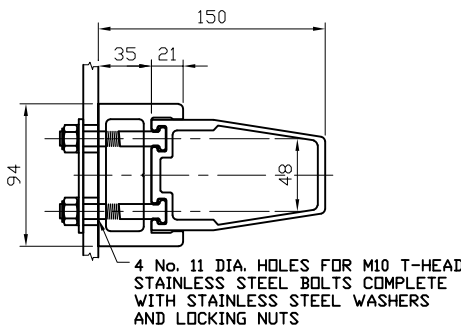
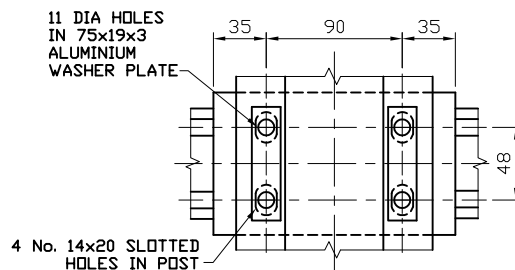
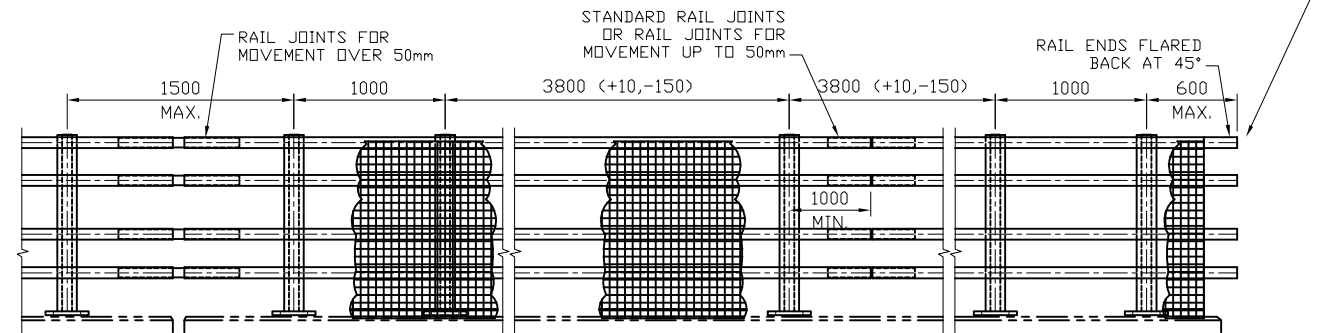
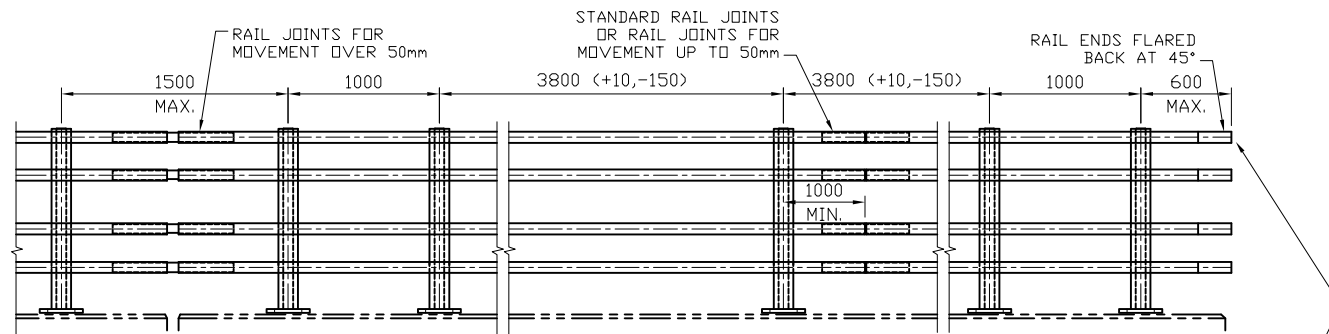
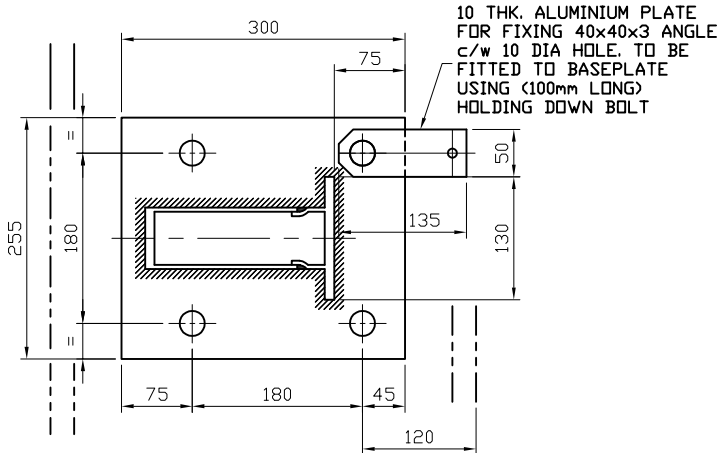
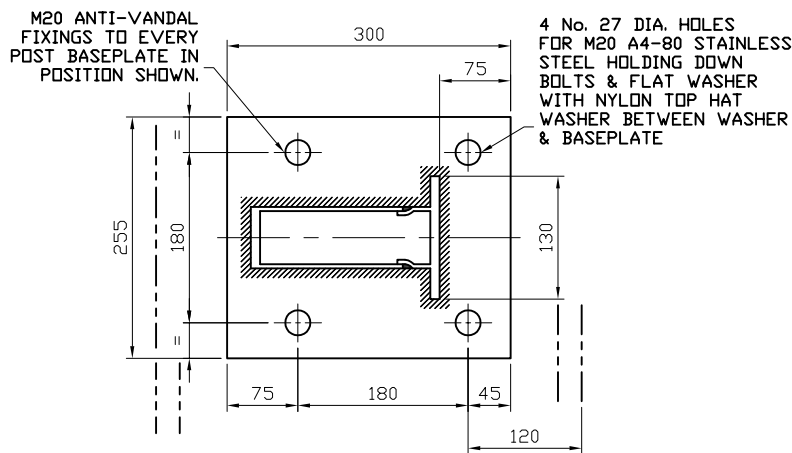
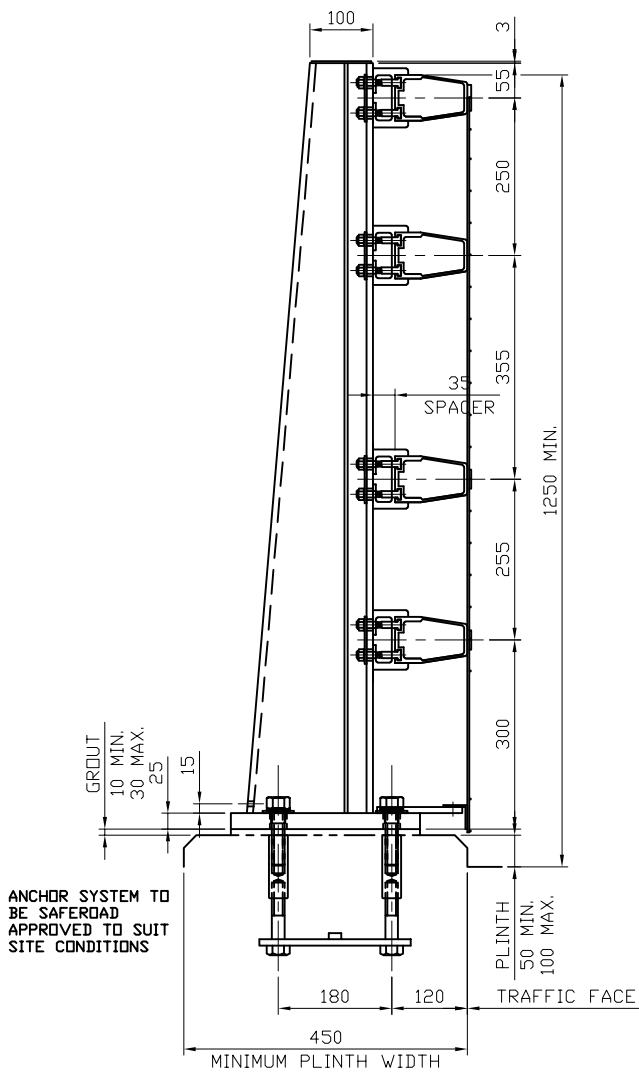
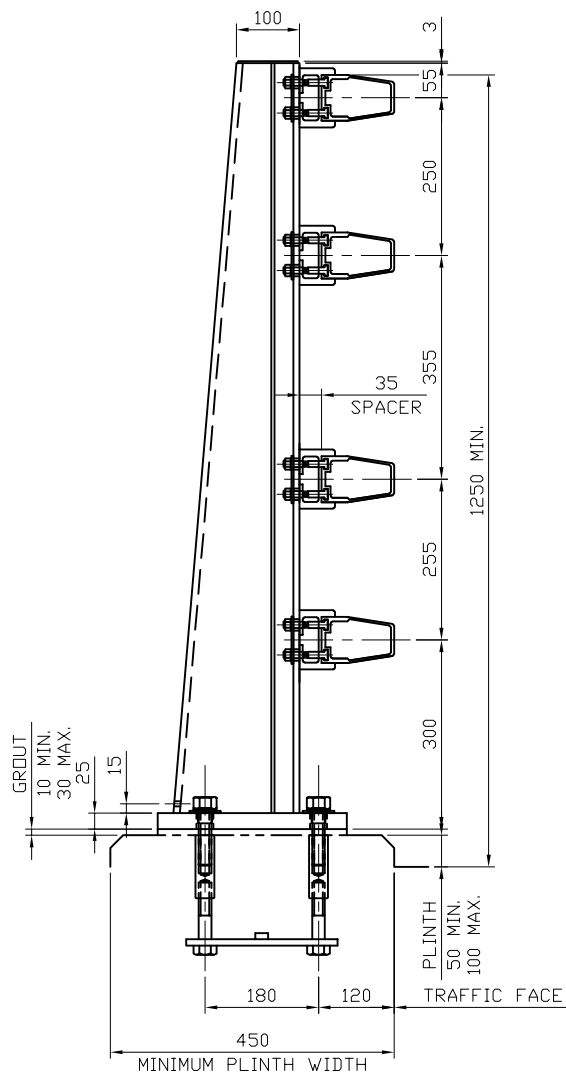
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- STAINLESS STEEL FASTENERS AND HD BOLTS TO BS 3692 & BS EN ISO 3506-1 GRADE A4-80. HOLDING DOWN BOLTS TO BE OF SUFFICIENT LENGTH TO GIVE ENGAGEMENT LENGTH REQUIRED.
- STAINLESS STEEL WASHERS TO BS4320 (FORM A) MADE FROM STAINLESS STEEL TO BS EN ISO 3506 GRADE A4 OR A2.
- ANTI-THEFT FIXINGS TO BE INCORPORATED.
- ALUMINIUM WELDING IN ACCORDANCE WITH BS EN 1011-4.
- PARAPET SYSTEM DESIGN TO BS EN 1317.
- FOR RAIL JOINT DETAILS SEE DRG. No. PHO/N1/GA-007.
- FOR DETAILS OF MEGAFLEX TRANSITION (IF REQUIRED) SEE DRG. No. PA 17953 Rev. 01 (APPROACH) & PA 17954 Rev. 01 (DEPARTURE).
- IF MESH INFILL TO BE INSTALLED; MESH TO BE 50.8 x 50.8 x 10swg GALVANISED STEEL WIRE MESH. SEE DRG. No. PHO/N1/GA-008 FOR TYPICAL FIXING DETAILS.
- FOR FIXING OF MESH INFILL; ST. STEEL DRIVE RIVET OR SIMILAR, LENGTH TO SUIT LOCATION.
- FOR MATERIAL WEIGHTS REFER TO COMPONENT DRAWINGS.

REV.	DATE	REMARKS	SIG.
02	21/08/19	WORKING WIDTH REVISED	M.T
01	13/04/17	IMPACT TEST CRITERIA CORRECTED	L.L



IF IN DOUBT ASK.

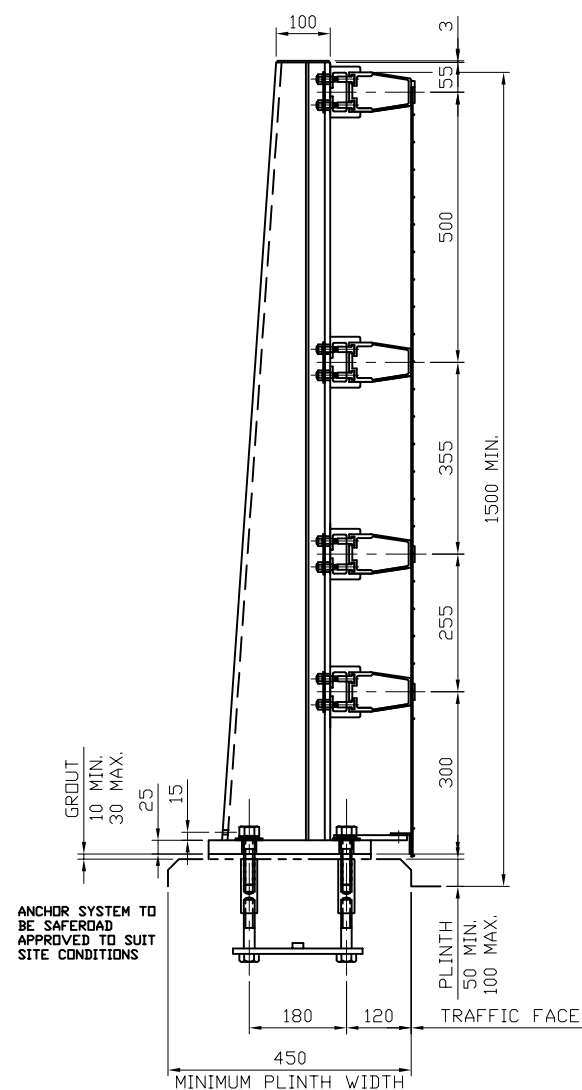
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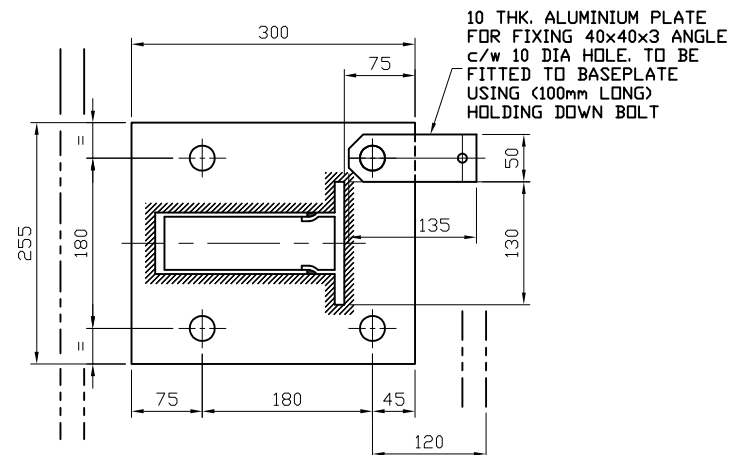
		PARAPET PERFORMANCE	
		IMPACT TEST CRITERIA	TB31
UNFACTORED POST BASE LOADS		CONTAINMENT LEVEL	N1
ULTIMATE UNFACTORED DESIGN MOMENT OF RESISTANCE OF POST AT UNDERSIDE OF BASEPLATE	31.4 kNm	WORKING WIDTH	W1 (0.6m)
		IMPACT SEVERITY LEVEL	A
CO-EXISTANT SHEAR	50 kN	DYNAMIC DEFLECTION	0.4m

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 - ALUMINIUM ALLOY EXTRUDED SECTIONS TO EN AW 6082 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. WITH THE ADDITIONAL MAIN RAIL REQUIREMENT THAT THE MINIMUM ELONGATION ON 50mm SHALL BE 10%.
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 - PARAPET SYSTEM DESIGN TO BS EN 1317.
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 - FOR DETAILS OF SAFETY-FENCE CONNECTORS (IF REQUIRED) SEE DRG No. PA 17953 Rev. 01 (APPROACH) & PA 17954 Rev. 01 (DEPARTURE).
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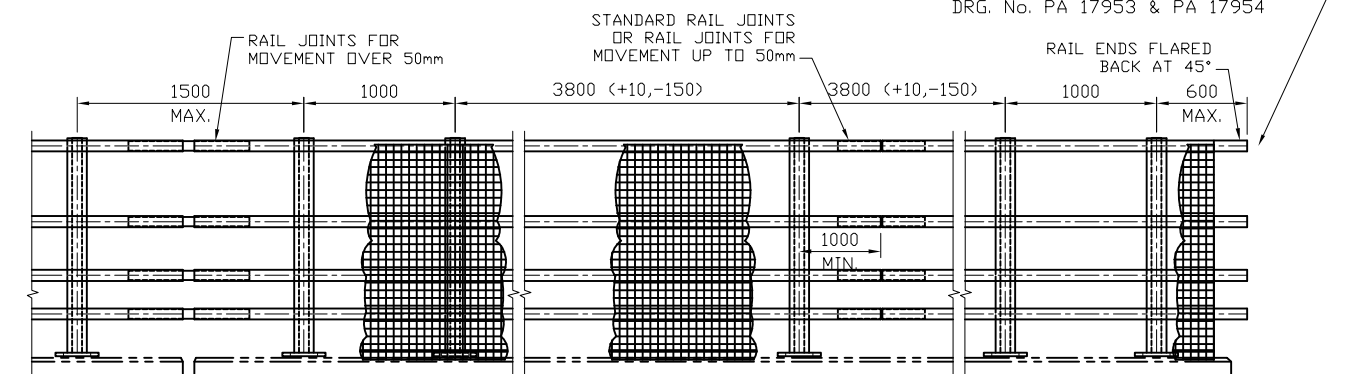
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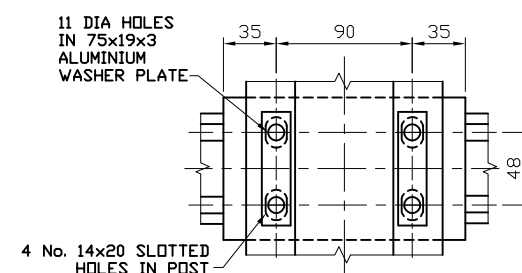
**SECTION THROUGH PARAPET
WITH MESH INFILL
PHO/M1/1.50/M
SCALE 1:4**



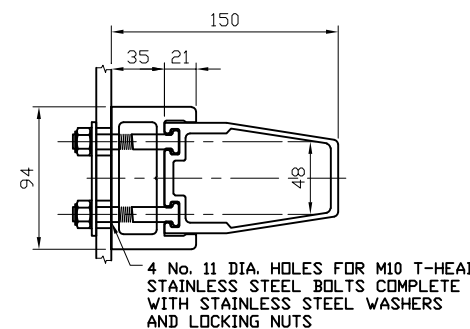
BASEPLATE DETAIL
PARAPETS WITH MESH INFILL
SCALE: 1/8



ELEVATION AND GENERAL ARRANGMENT OF PARAPET WITH MESH INFILL
SCALE: 1:50



RAIL TO POST FIXING DETAIL
SCALE: 1:5



RAIL AND SPACER BRACKET SECTION

SCALE: 15

UNFACTORED POST BASE LOADS		PARAPET PERFORMANCE	
		IMPACT TEST CRITERIA	TB31
ULTIMATE UNFACTORED DESIGN MOMENT OF RESISTANCE OF POST AT UNDERSIDE OF BASEPLATE	31.4 kNm	CONTAINMENT LEVEL	N1
		WORKING WIDTH	W1 (0.6m)
		IMPACT SEVERITY LEVEL	A
CO-EXISTANT SHEAR	50 kN	DYNAMIC DEFLECTION	0.4m

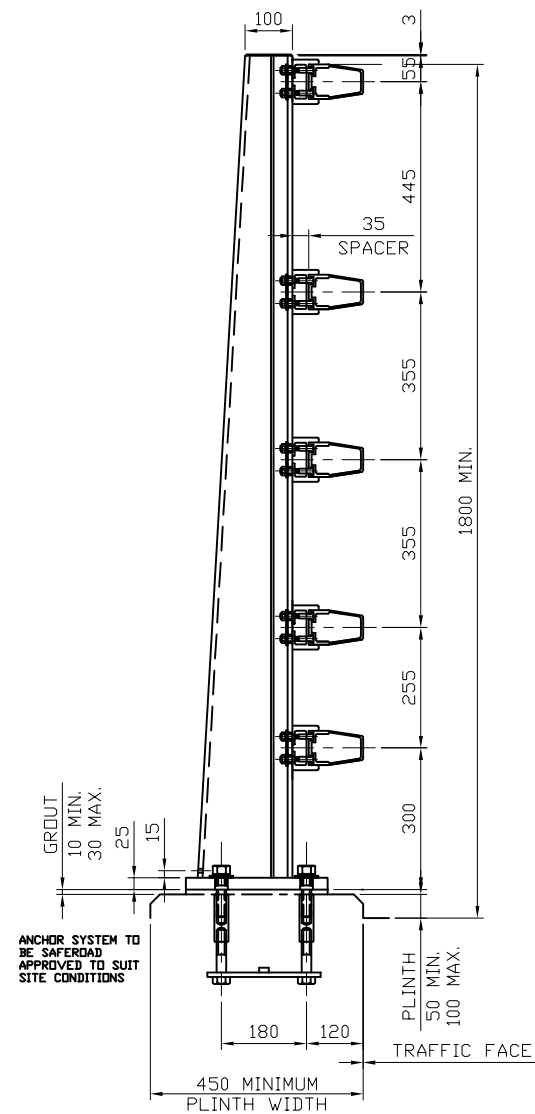
1. DIMENSIONS ARE SYMMETRICAL ABOUT CENTRE LINE AND IN MILLIMETRES - UNLESS NOTED OTHERWISE.
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5. ANTI-THEFT FIXINGS TO BE INCORPORATED.
6. ALUMINIUM WELDING IN ACCORDANCE WITH BS EN 1011-4.
7. PARAPET SYSTEM DESIGN TO BS EN 1317.
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11. FOR FIXING OF MESH INFILL; ST. STEEL DRIVE RIVET OR SIMILAR, LENGTH TO SUIT LOCATION.
12. FOR MATERIAL WEIGHTS REFER TO COMPONENT DRAWINGS.

REVN.	DATE	REMARKS	SIG.

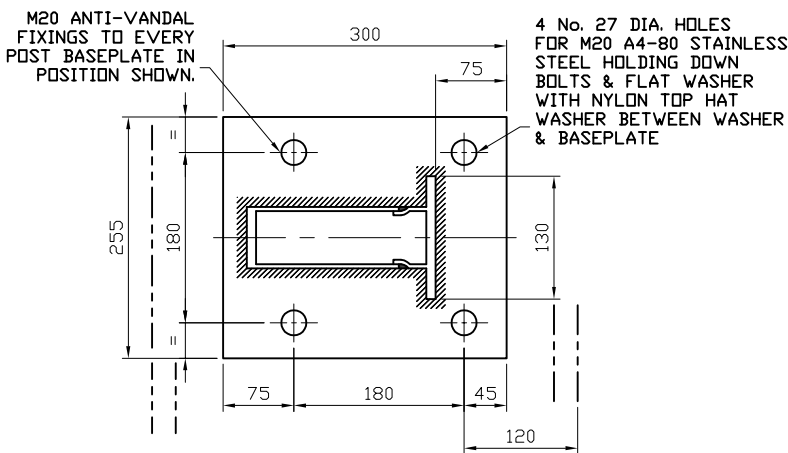
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PROJECTION:-- 	DATE:-- 17.07.19	SCALE:-- As shown at A3	APPROVED:--
DRG NO:-- PHO / NI / GA-004			REV:-- 00

IF IN DOUBT ASK.

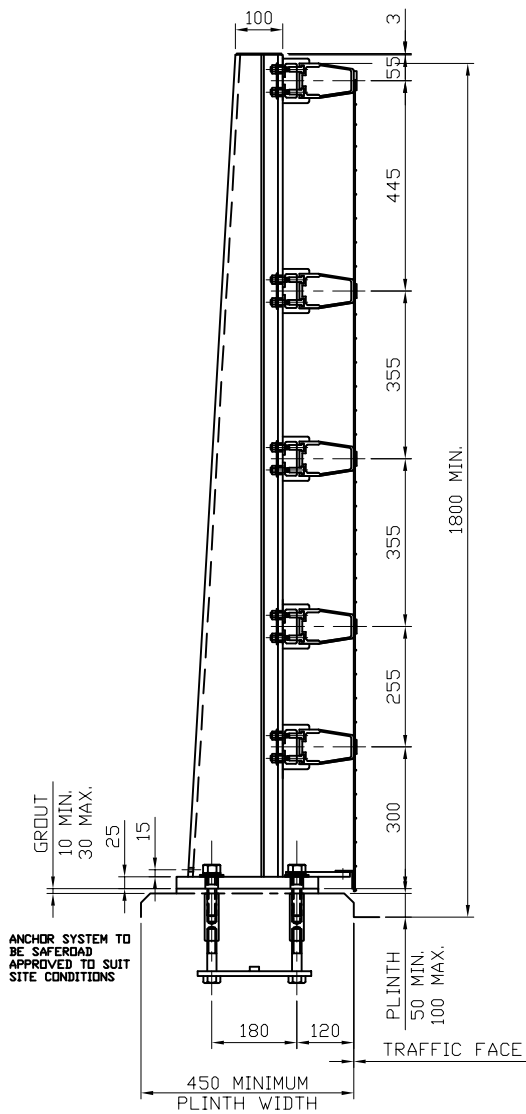
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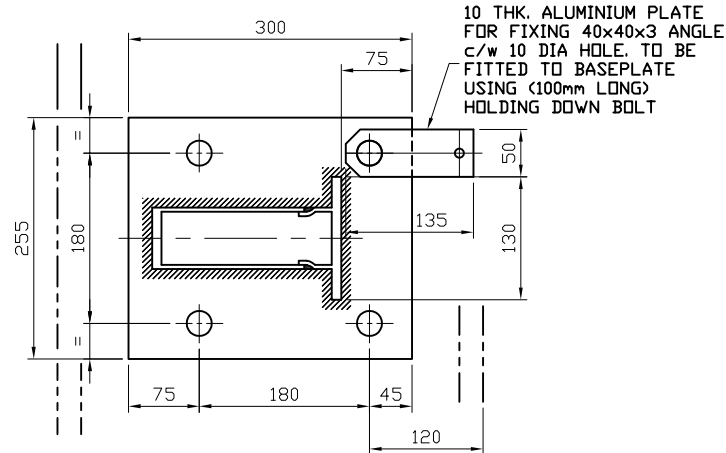
SECTION THROUGH PARAPET
PHO/N1/180/O
SCALE 1:6



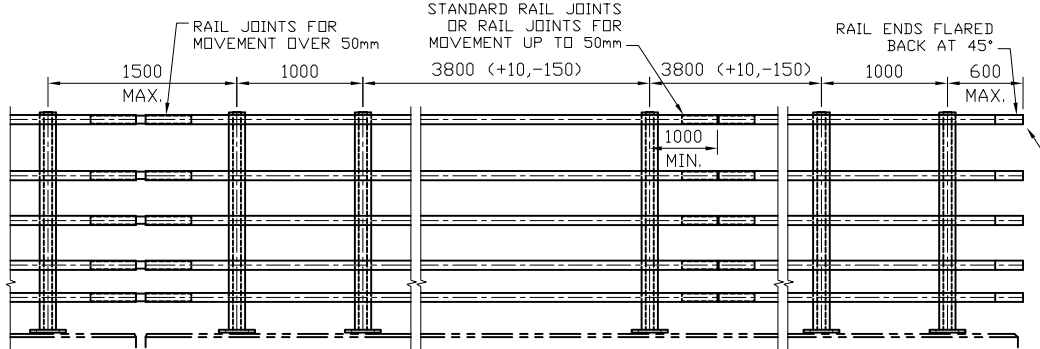
BASEPLATE DETAIL
SCALE: 1:8



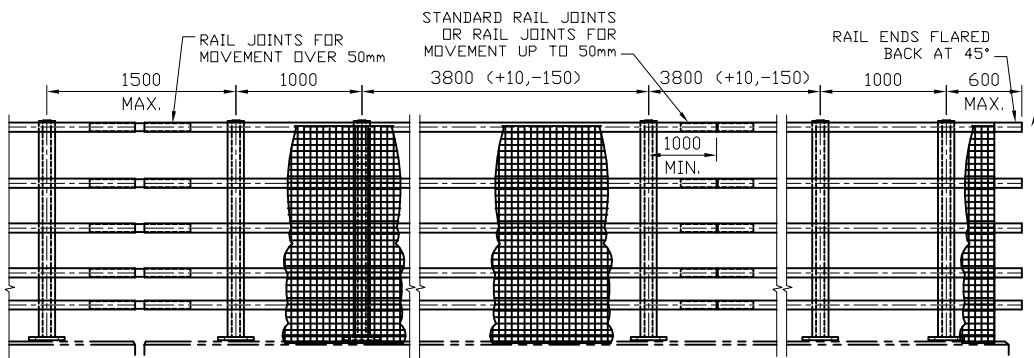
SECTION THROUGH PARAPET
WITH MESH INFILL
PHO/N1/180/M
SCALE 1:6



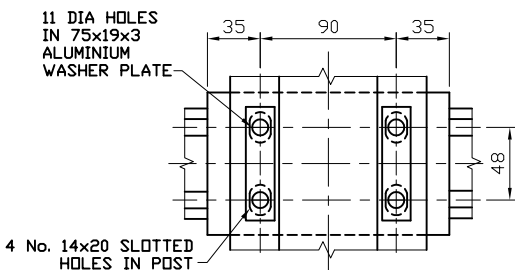
BASEPLATE DETAIL
PARAPETS WITH MESH INFILL
SCALE: 1:8



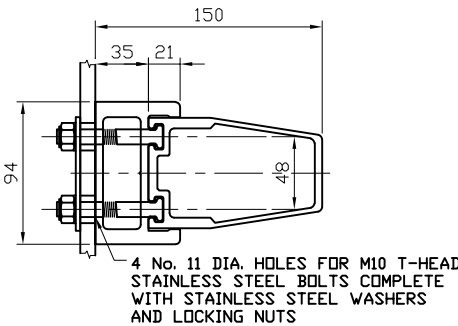
ELEVATION AND GENERAL ARRANGMENT OF PARAPET
SCALE: 1:60



ELEVATION AND GENERAL ARRANGMENT OF PARAPET WITH MESH INFILL
SCALE: 1:60



RAIL TO POST FIXING DETAIL
SCALE: 1:5

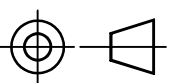


RAIL AND SPACER BRACKET SECTION
SCALE: 1:5

UNFACTORED POST BASE LOADS		PARAPET PERFORMANCE	
ULTIMATE UNFACTORED DESIGN MOMENT OF RESISTANCE OF POST AT UNDERSIDE OF BASEPLATE	31.4 kNm	IMPACT TEST CRITERIA	TB31
CO-EXISTANT SHEAR	50 kN	CONTAINMENT LEVEL	N1
		WORKING WIDTH	W1 (0.6m)
		IMPACT SEVERITY LEVEL	A
		DYNAMIC DEFLECTION	0.4m

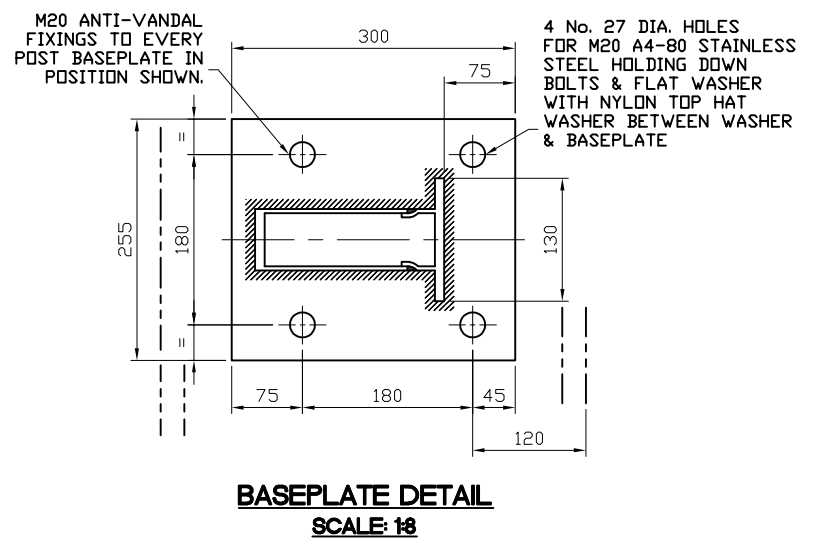
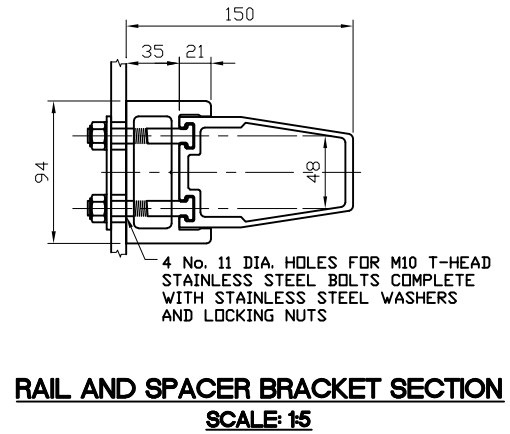
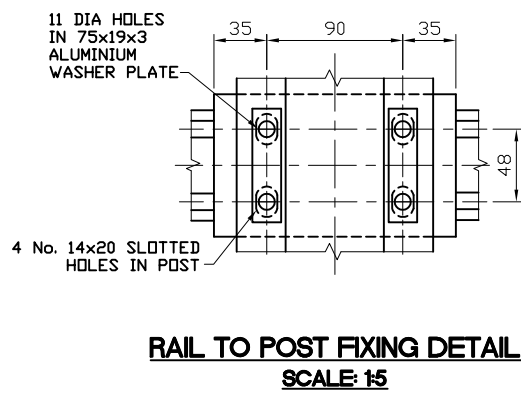
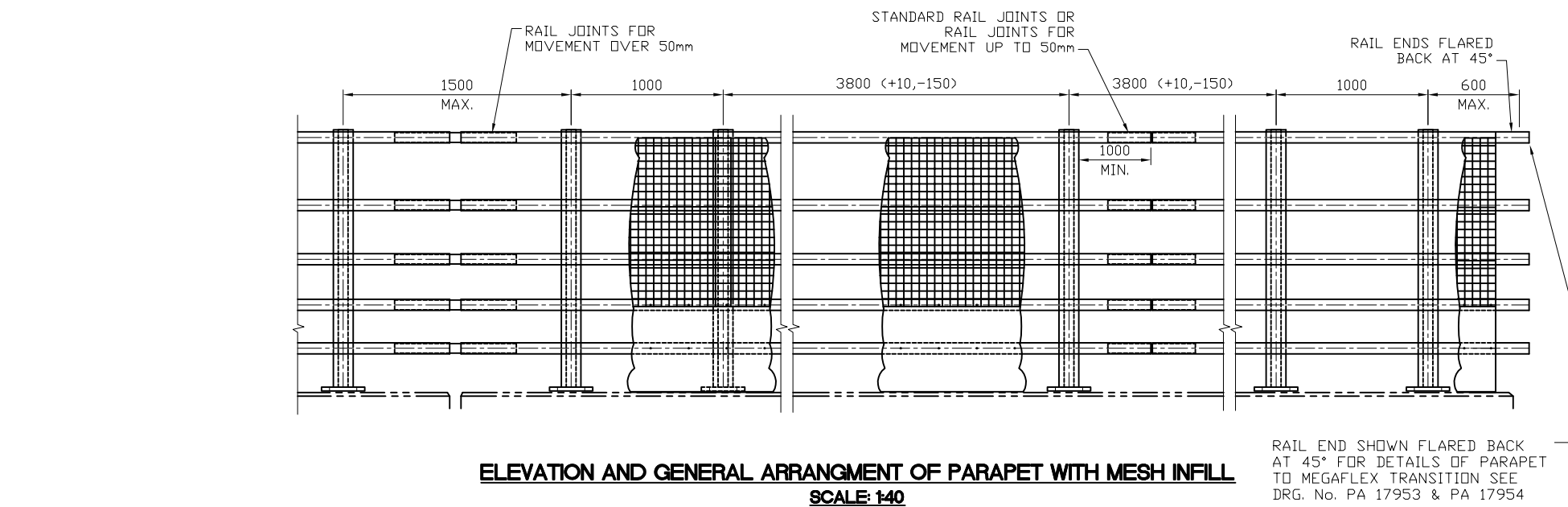
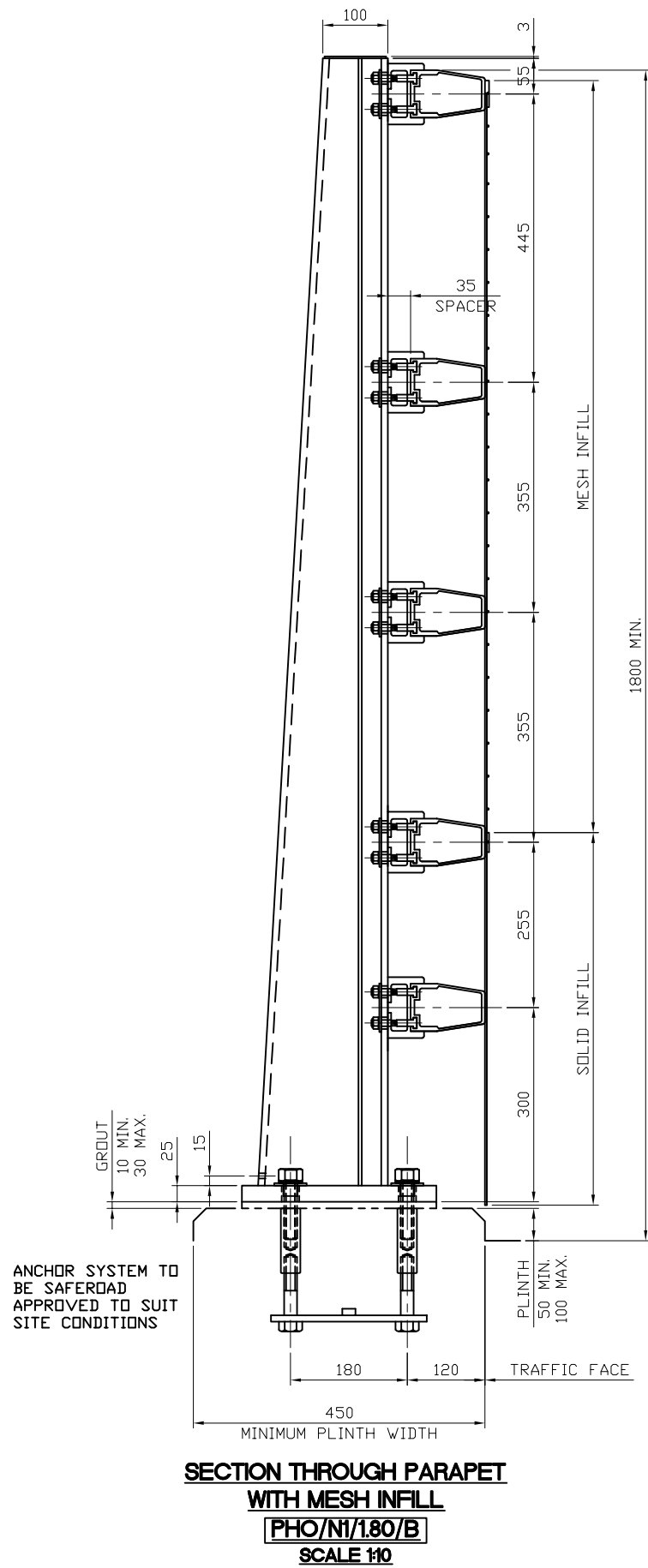
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- ANTI-THEFT FIXINGS TO BE INCORPORATED.
- ALUMINIUM WELDING IN ACCORDANCE WITH BS EN 1011-4.
- PARAPET SYSTEM DESIGN TO BS EN 1317.
- FOR RAIL JOINT DETAILS SEE DRG. No. PHO/N1/GA-007.
- FOR DETAILS OF MEGAFLEX TRANSITION (IF REQUIRED) SEE DRG. No. PA 17953 Rev. 01 (APPROACH) & PA 17954 Rev. 01 (DEPARTURE).
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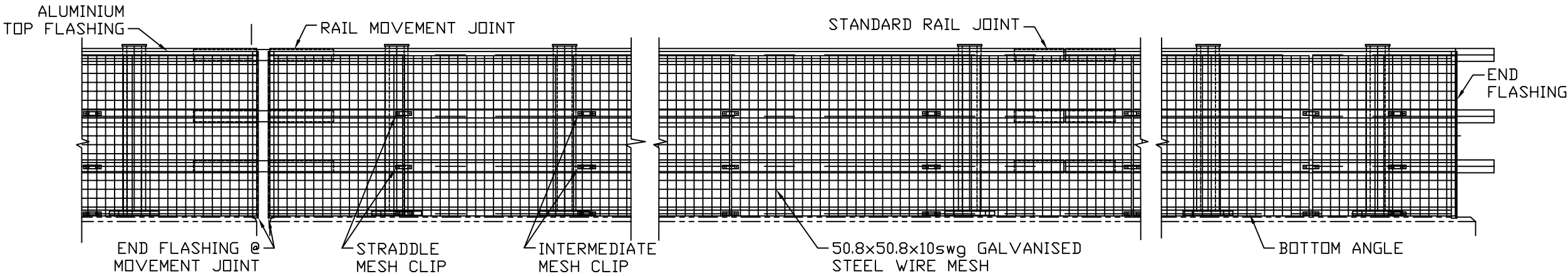


PARAPET PERFORMANCE			
UNFACTORED POST BASE LOADS		IMPACT TEST CRITERIA	TB31
ULTIMATE UNFACTORED DESIGN MOMENT OF RESISTANCE OF POST AT UNDERSIDE OF BASEPLATE	31.4 kNm	CONTAINMENT LEVEL	N1
	50 kN	WORKING WIDTH	W1 (0.6m)
		IMPACT SEVERITY LEVEL	A
CO-EXISTANT SHEAR		DYNAMIC DEFLECTION	0.4m

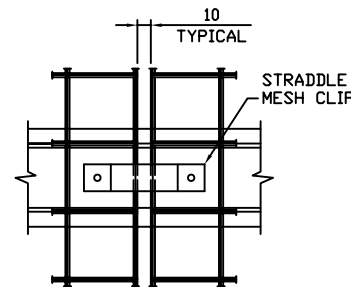
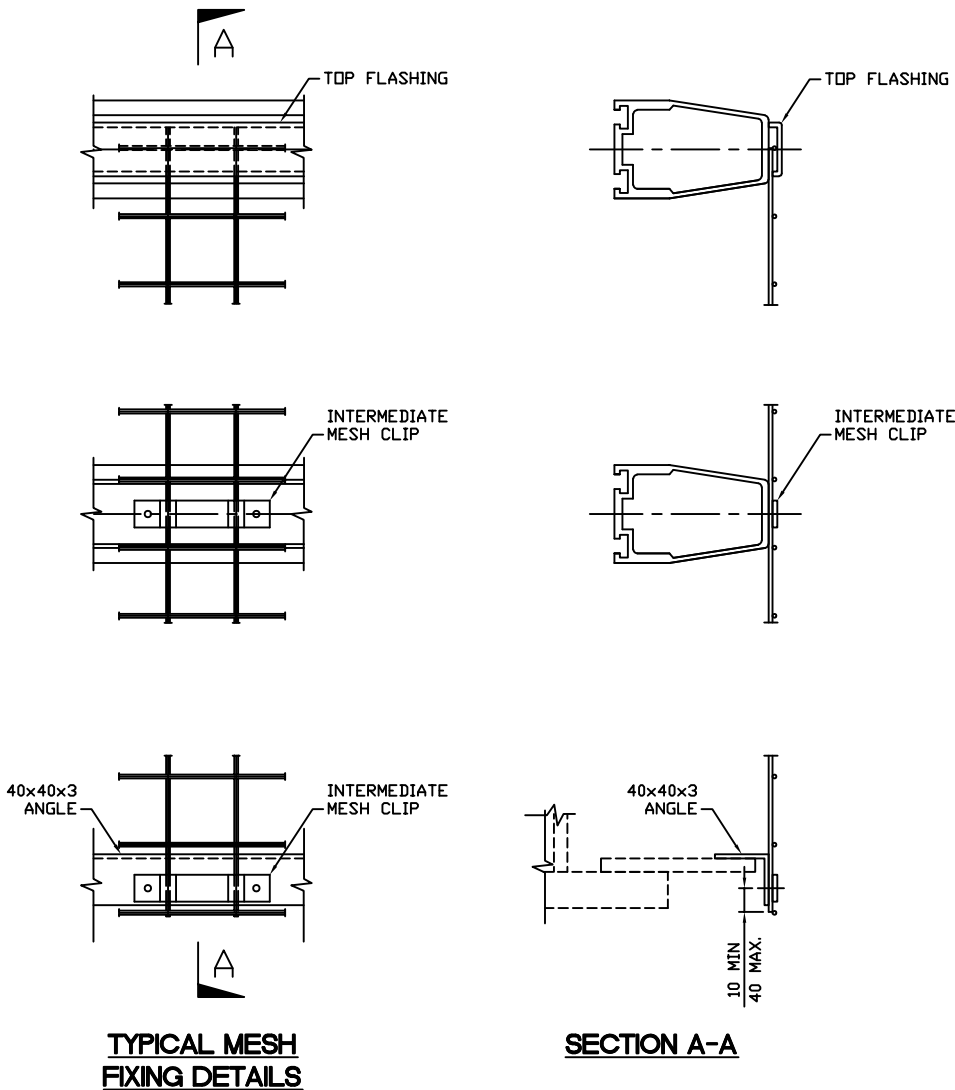
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 - STAINLESS STEEL FASTENERS AND HD BOLTS TO BS 3692 & BS EN ISO 3506-1 GRADE A4-80. HOLDING DOWN BOLTS TO BE OF SUFFICIENT LENGTH TO GIVE ENGAGEMENT LENGTH REQUIRED.
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 - ANTI-THEFT FIXINGS TO BE INCORPORATED.
 - ALUMINIUM WELDING IN ACCORDANCE WITH BS EN 1011-4.
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 - FOR DETAILS OF MEGAFLEX TRANSITION (IF REQUIRED) SEE DRG No. PA 17953 Rev. 01 (APPROACH) & PA 17954 Rev. 01 (DEPARTURE).
 - MESH TO BE 50.8 x 50.8 x 10swg GALVANISED STEEL WIRE MESH.
 - SOLID INFILL TO BE 3mm THICK ALUMINIUM SHEET JOGGLED/OVERLAPPED 50mm ONTO NEXT SHEET. THESE CAN BE GRIT BLASTED IF REQUIRED.
 - FOR FIXING OF MESH & SOLID INFILL; ST. STEEL DRIVE RIVET OR SIMILAR, LENGTH TO SUIT LOCATION.
 - FOR MATERIAL WEIGHTS REFER TO COMPONENT DRAWINGS.

IF IN DOUBT ASK.

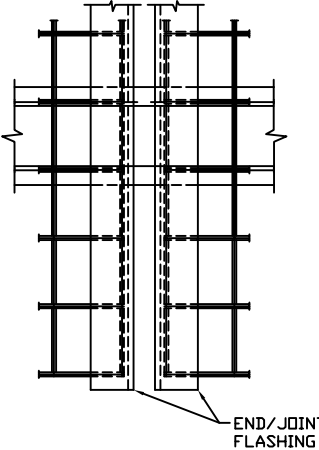
DRAWING NOT TO BE SCALED.



ELEVATION ON PARAPET SHOWING MESH ARRANGEMENT



VERTICAL MESH JOINT (STANDARD JOINT)



VERTICAL MESH FIXING (MOVEMENT JOINT + ENDS)

- GENERAL NOTES
- 1. MESH WIRES TO BE 10swg THICK SPACED AT 50.8 x 50.8.
 - 2. PANELS SHOWN TO BE 1832 x 917, CUT FLUSH ALL ROUND.
 - 3. MESH PANELS TO BE MILD STEEL GALVANISED TO BS EN ISO 1461:2009.
 - 4. LONGITUDINAL WIRES ARE TO FOLLOW THE LINE OF THE PARAPET & BE FACING OUTWARDS I.E OFF THE RAILS.
 - 5. ALL HOLES CUT INTO THE RAIL SECTIONS ARE TO BE CLEAN CUT, NORMAL TO THE SURFACE & THE CORRECT SIZE FOR THE FIXINGS.
 - 6. ANY HOLES DAMAGED IN PREPERATION FOR POP/DRIVE RIVETS OR SELF TAPPING SCREWS MUST BE PLUGGED WITH OR REPLACED BY AN OVERSIZED POP/DRIVE RIVET OR SELF TAPPING SCREW COMPLETE WITH A MASTIC WASHER.
 - 7. ANY VERTICAL EDGES OF PANELS AT EITHER THE ENDS OF THE PARAPET OR AT EXPANSION JOINTS THAT ARE 20mm OR MORE OUT OF VERTICAL TO BE CUT TO THE APPROPRIATE ANGLE WITH A TRIMMING WIRE WELDED ON.
 - 8. FOR MATERIAL WEIGHTS REFER TO COMPONENT DRAWINGS.
 - 9. NOMINAL WEIGHT OF MESH INFILL PANEL IS 4.5 Kg $\pm$ 5%
 - 10. DIMENSIONS ARE IN MILLIMETRES - UNLESS NOTED OTHERWISE.

DRAWING NOT TO BE SCALED.



11 DIA HOLES
IN 75x19x3
ALUMINIUM
WASHER PLATE

35 90 35

48

4 No. 14x20 SLOTTED
HOLES IN POST

RAIL TO POST FIXING DETAIL
SCALE: 1:5



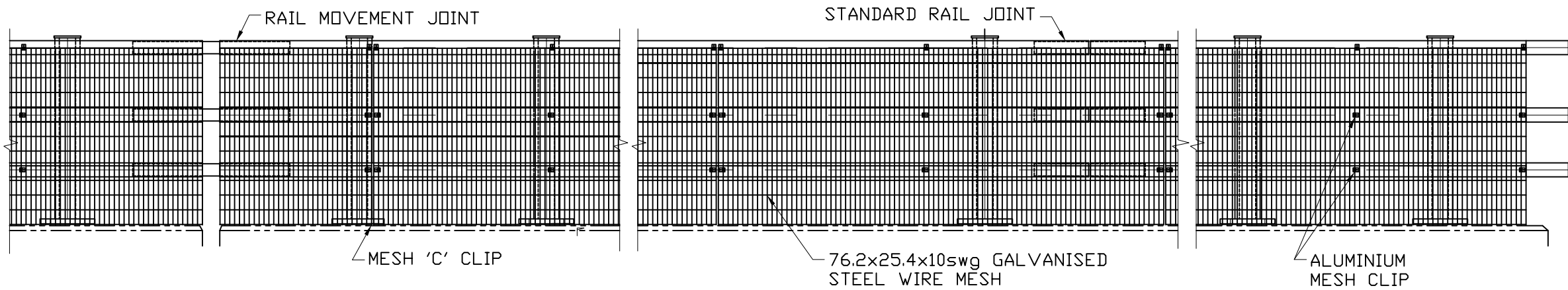
GENERAL NOTES

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2. ALUMINIUM ALLOY EXTRUDED SECTIONS TO EN AW 6082 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. WITH THE ADDITIONAL MAIN RAIL REQUIREMENT THAT THE MINIMUM ELONGATION ON 50mm SHALL BE 10%.
3. STAINLESS STEEL FASTENERS AND HD BOLTS TO BS 3692 & BS EN ISO 3506-1 GRADE A4-80. HOLDING DOWN BOLTS TO BE OF SUFFICIENT LENGTH TO GIVE ENGAGEMENT LENGTH REQUIRED.
4. STAINLESS STEEL WASHERS TO BS4320 (FORM A) MADE FROM STAINLESS STEEL TO BS EN ISO 3506 GRADE A4 OR A2.
5. ANTI-THEFT FIXINGS TO BE INCORPORATED.
6. ALUMINIUM WELDING IN ACCORDANCE WITH BS EN 1011-4.
7. PARAPET SYSTEM DESIGN TO BS EN 1317.
8. FOR RAIL JOINT DETAILS SEE DRG. No. PHO/N1/GA-007.
9. FOR DETAILS OF MEGAFLEX TRANSITION (IF REQUIRED) SEE DRG No. PA 17953 Rev. 01 (APPROACH) & PA 17954 Rev. 01 (DEPARTURE).
10. SOLID INFILL TO BE 3mm THICK ALUMINIUM SHEET JOGGLED/OVERLAPPED 50mm ONTO NEXT SHEET. THESE CAN BE GRIT BLASTED IF REQUIRED. FOR DETAILS SEE DRG. No. UK/PHO/C1.
11. FOR FIXING OF SOLID INFILL; ST. STEEL DRIVE RIVET OR SIMILAR, LENGTH TO SUIT LOCATION.
12. FOR MATERIAL WEIGHTS REFER TO COMPONENT DRAWINGS.

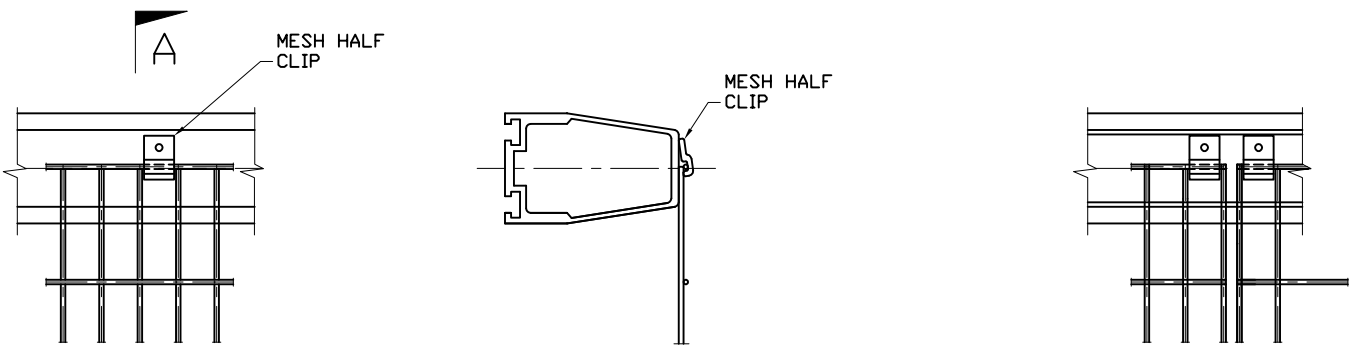
NAME:--		DRAWN:-- M.Teal		CHECKED:-- R.B		CHECKED QA:--	
PROJECTION:--		DATE:-- 18.07.13		SCALE:-- As shown at A3		APPROVED:--	
		DRG NO:-- PHO / N I / GA-009				REV:-- 02	

IF IN DOUBT ASK.

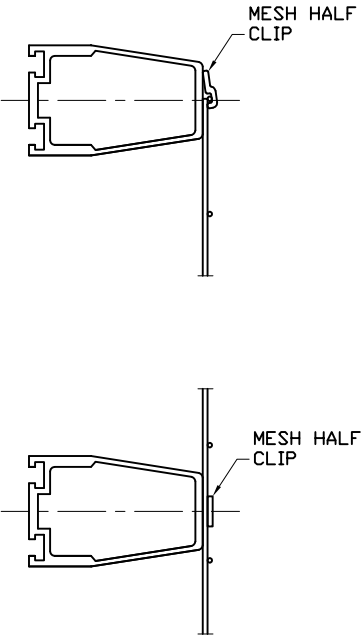
DRAWING NOT TO BE SCALED.



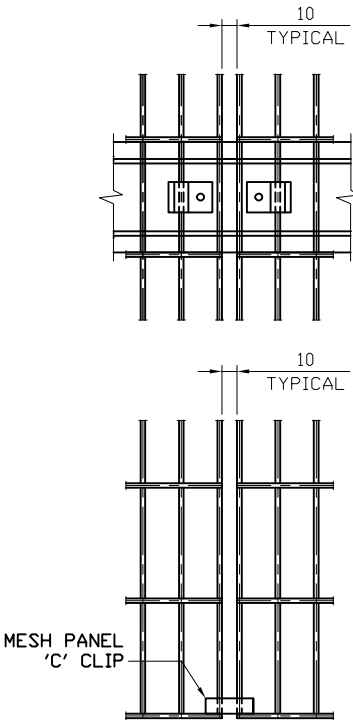
ELEVATION ON PARAPET SHOWING MESH ARRANGEMENT



TYPICAL MESH
FIXING DETAILS

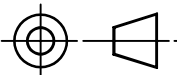


SECTION A-A



TYPICAL VERTICAL JOINT
IN MESH

- GENERAL NOTES
- 1. MESH WIRES TO BE 10swg THICK SPACED AT 76.2 x 25.4.
 - 2. PANELS SHOWN TO BE 1832 x 917, CUT FLUSH ALL ROUND.
 - 3. MESH PANELS TO BE MILD STEEL GALVANISED TO BS EN ISO 1461:2009.
 - 4. LONGITUDINAL WIRES ARE TO FOLLOW THE LINE OF THE PARAPET & BE FACING OUTWARDS I.E OFF THE RAILS.
 - 5. ALL HOLES CUT INTO THE RAIL SECTIONS ARE TO BE CLEAN CUT, NORMAL TO THE SURFACE & THE CORRECT SIZE FOR THE FIXINGS.
 - 6. ANY HOLES DAMAGED IN PREPERATION FOR POP/DRIVE RIVETS OR SELF TAPPING SCREWS MUST BE PLUGGED WITH OR REPLACED BY AN OVERSIZED POP/DRIVE RIVET OR SELF TAPPING SCREW COMPLETE WITH A MASTIC WASHER.
 - 7. ANY VERTICAL EDGES OF PANELS AT EITHER THE ENDS OF THE PARAPET OR AT EXPANSION JOINTS THAT ARE 20mm OR MORE OUT OF VERTICAL TO BE CUT TO THE APPROPRIATE ANGLE WITH A TRIMMING WIRE WELDED ON.
 - 8. FOR MATERIAL WEIGHTS REFER TO COMPONENT DRAWINGS.
 - 9. NOMINAL WEIGHT OF MESH INFILL PANEL IS 7.2 Kg $\pm 5\%$
 - 10. DIMENSIONS ARE IN MILLIMETRES - UNLESS NOTED OTHERWISE.



REVN.	DATE	REMARKS	SIG.
-	-	-	-