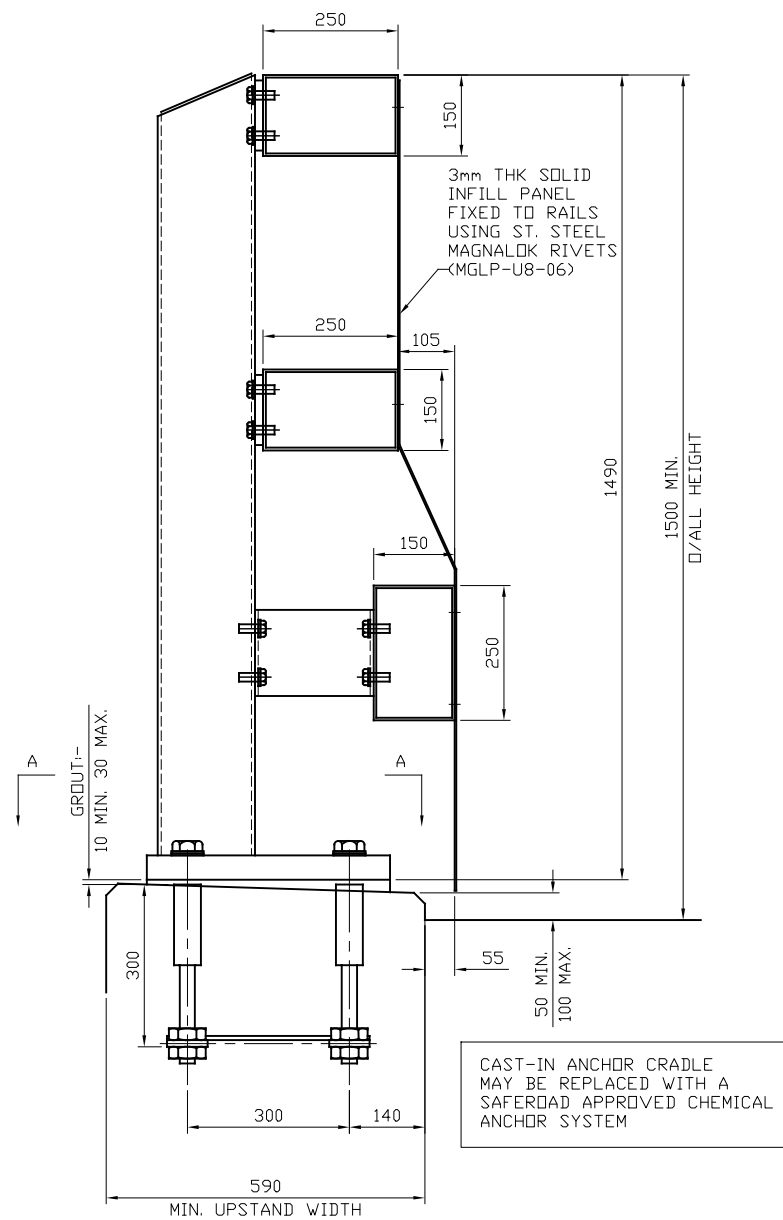
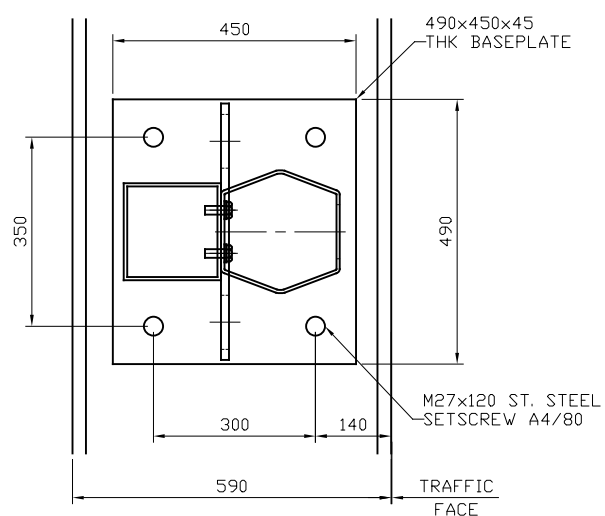
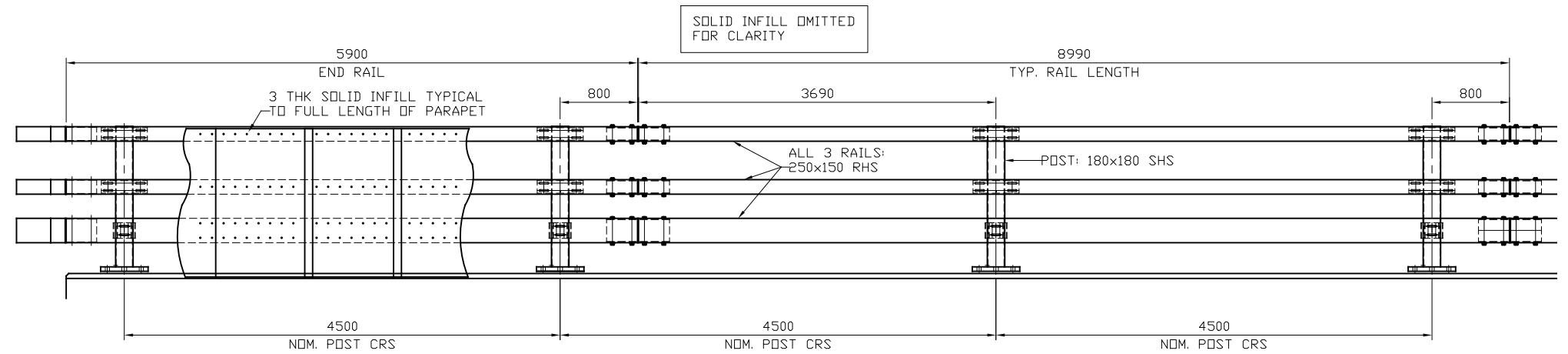




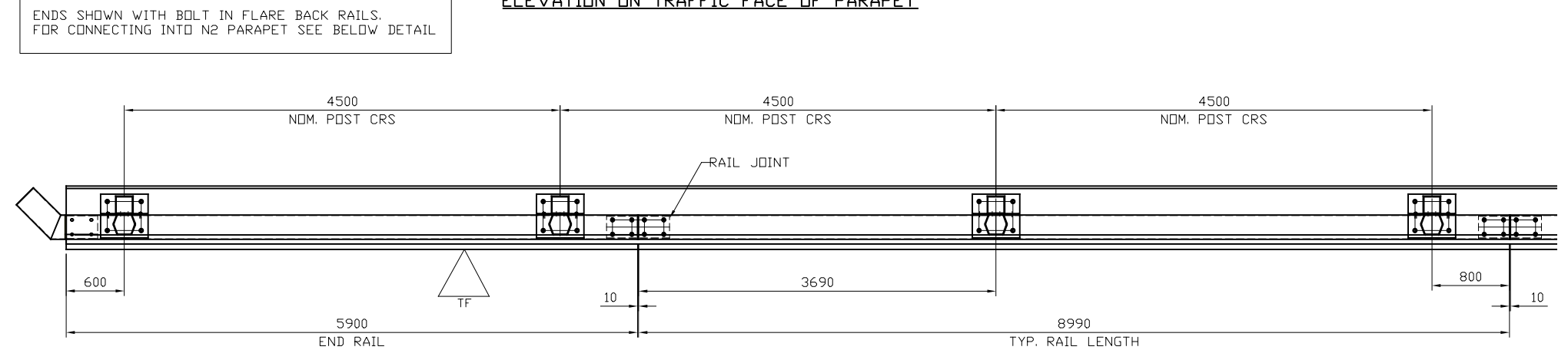
TYPICAL SECTION THROUGH PARAPET



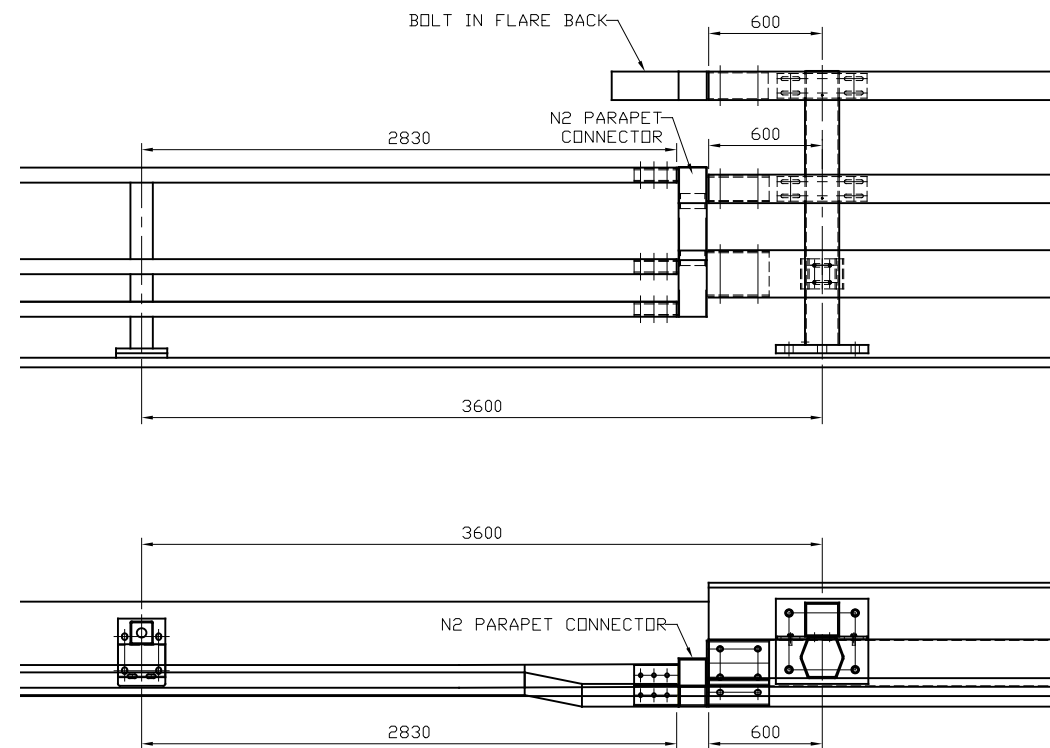
SECTION A-A
BASEPLATE DETAIL



ELEVATION ON TRAFFIC FACE OF PARAPET



PLAN VIEW ON PARAPET LAYOUT



N2 PARAPET CONNECTION DETAIL

GENERAL NOTES/SPECIFICATIONS:

- ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.
- ALL STEEL SECTIONS TO BE IN ACCORDANCE WITH BS.EN. 10025-2, BS EN 10219-1 & BS EN 10219-2.
- ALL MATERIAL TO BE GALVANISED TO BS EN ISO 1461:2009.
- HOLDING DOWN SETSCREWS TO BE TO BS 3692 & BE ST. STEEL TO BS EN ISO 3506-1 GRADE A4 CLASS 80. ALL OTHER BOLTS/SETSCREWS TO BE GALVANISED STEEL TO CONFORM TO BS 3692 & BS EN ISO 4014 GRADE 8.8.
- ALL NUTS TO BE GALVANISED STEEL TO CONFORM TO BS 3692 & BS EN ISO 4032 GRADE 8.
- GALVANISED PLAIN WASHERS TO CONFORM TO BS 4320.
- SPRING WASHERS TO CONFORM TO BS 4464.
- STAINLESS STEEL WASHERS TO BE GRADE A4.
- PARAPET PERFORMANCE IS TO BS EN 1317-1 & BS EN 1317-2.
- IMPACT TEST CRITERIA:- TB71 & TB11
- CONTAINMENT LEVEL:- H4a
- NORMALISED WORKING WIDTH:- W3
- IMPACT SEVERITY LEVEL:- B
- NORMALISED DYNAMIC DEFLECTION:- 0.4m
- POSTS TO BE VERTICAL TO WITHIN ±15mm OVER 1500mm.
- RAILS TO BE SET IN A FLOWING LINE AT MINIMUM HEIGHT OF 1500mm ABOVE THE ADJOINING ROAD/PAVED SURFACE.

REV.	DATE	REMARKS	SIG.
01	28.08.24	ANCHOR & HD REVISED	M.T

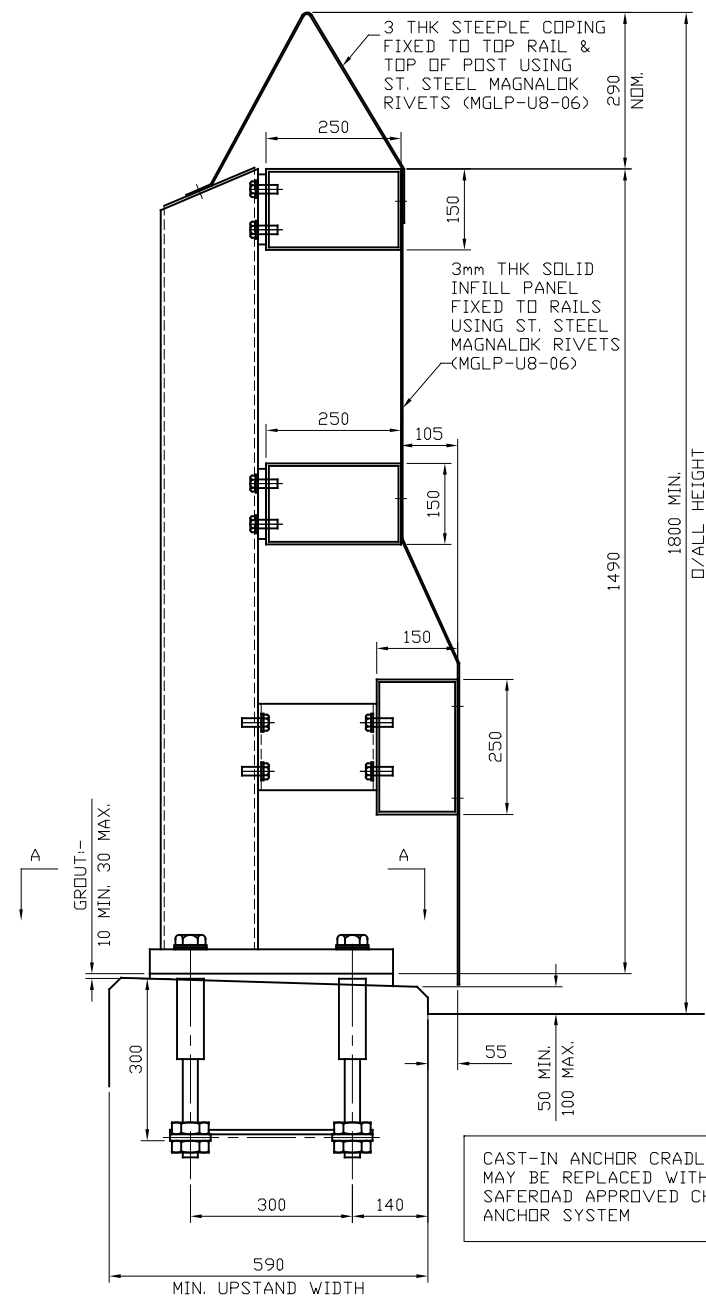
TITLE:-
GENERAL ARRANGEMENT
SNH4a VEHICLE PARAPET



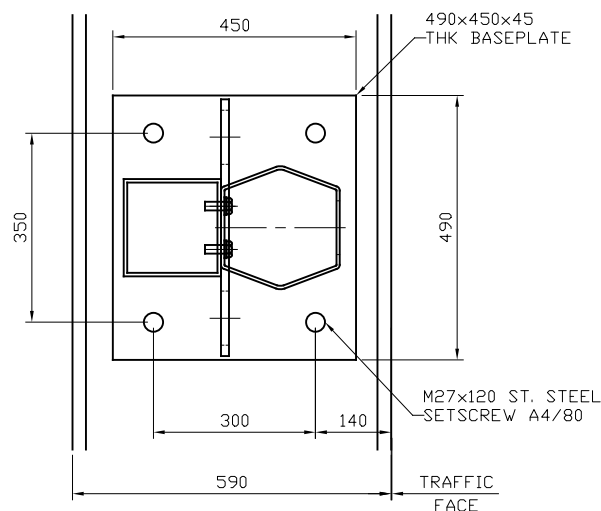
UK LTD
Concord House
Bessmer Way
Scunthorpe
North Lincolnshire, DN15 8XE
Tel: 01724 289119 Fax: 01724 281478

DRAWN:- M. TEAL	CHECKED:- R.B	DRAWING SIZE:- A3
DATE:- 25.03.20	SCALE:- Not to Scale	APPROVED:-
DRG NO:- SNH4a/GA-001	REV:- 01	

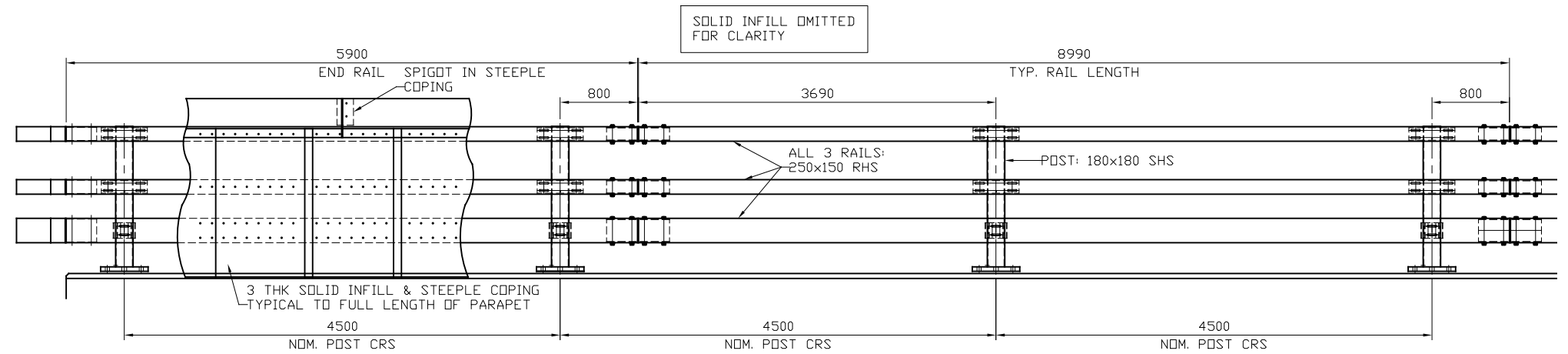




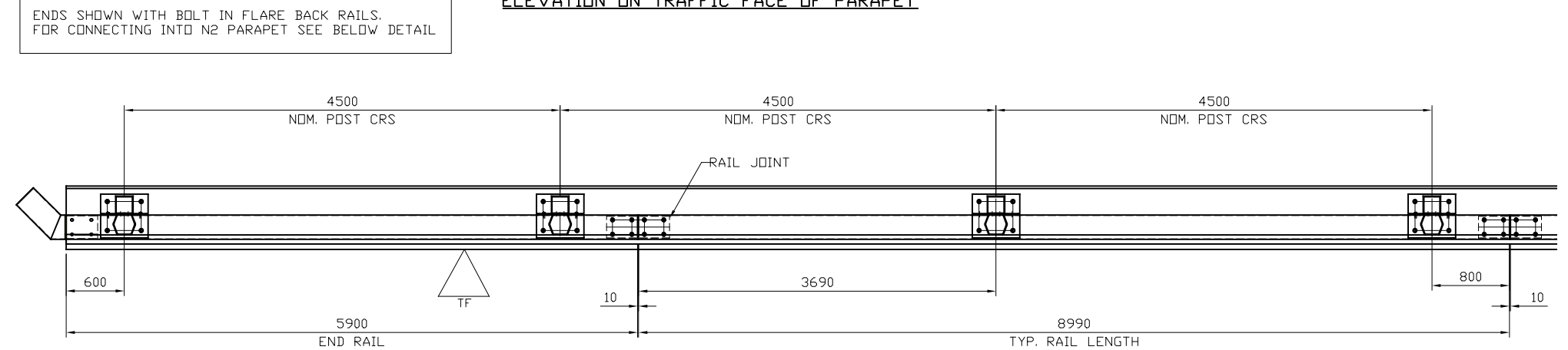
TYPICAL SECTION THROUGH UPSTAND



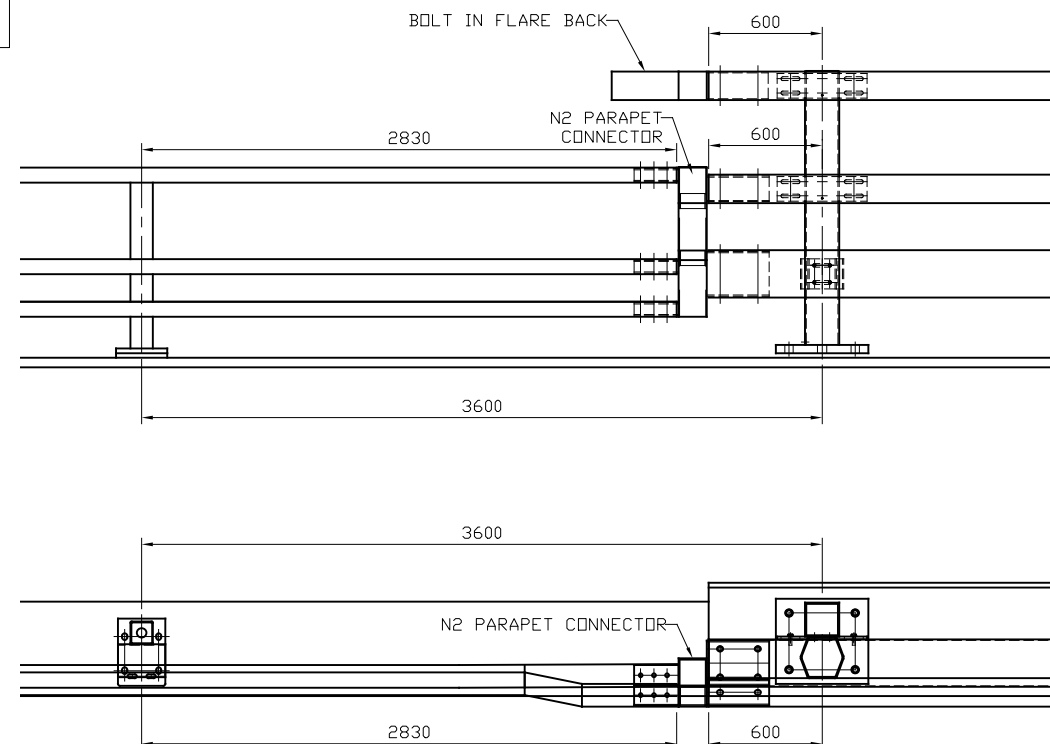
SECTION A-A
BASEPLATE DETAIL



ELEVATION ON TRAFFIC FACE OF PARAPET



PLAN VIEW ON PARAPET LAYOUT



N2 PARAPET CONNECTION DETAIL

GENERAL NOTES/SPECIFICATIONS:

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- IMPACT TEST CRITERIA:- TB71 & TB11
- CONTAINMENT LEVEL:- H4a
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- IMPACT SEVERITY LEVEL:- B
- NORMALISED DYNAMIC DEFLECTION:- 0.4m
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REV.	DATE	REMARKS	SIG.
01	28.08.24	ANCHOR & HD REVISED	M.T

TITLE:-
GENERAL ARRANGEMENT
SNH4a VEHICLE PARAPET
WITH STEEPLE COPING

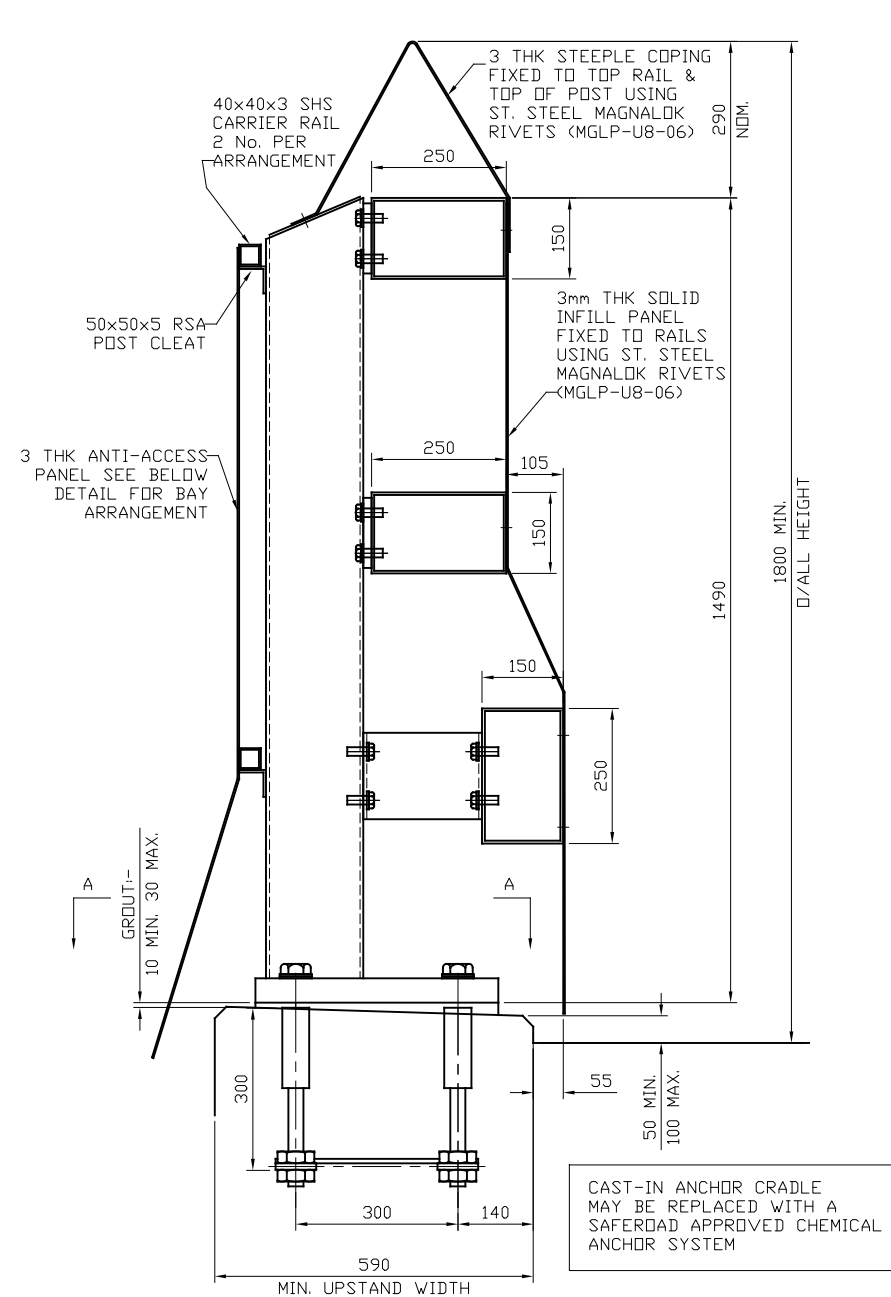


UK LTD
Concord House
Bessmer Way
Scunthorpe
North Lincolnshire, DN15 8XE
Tel: 01724 289119 Fax: 01724 281478

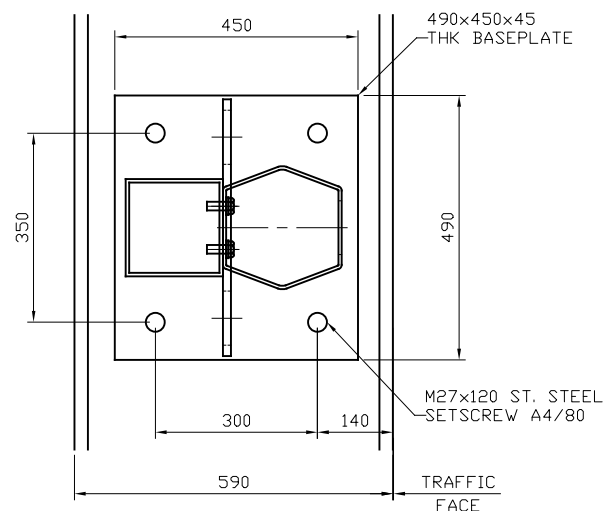
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DATE:- 25.03.20	SCALE:- Not to Scale	APPROVED:-

DRG NO:- SNH4a/GA-002 REV:- 01

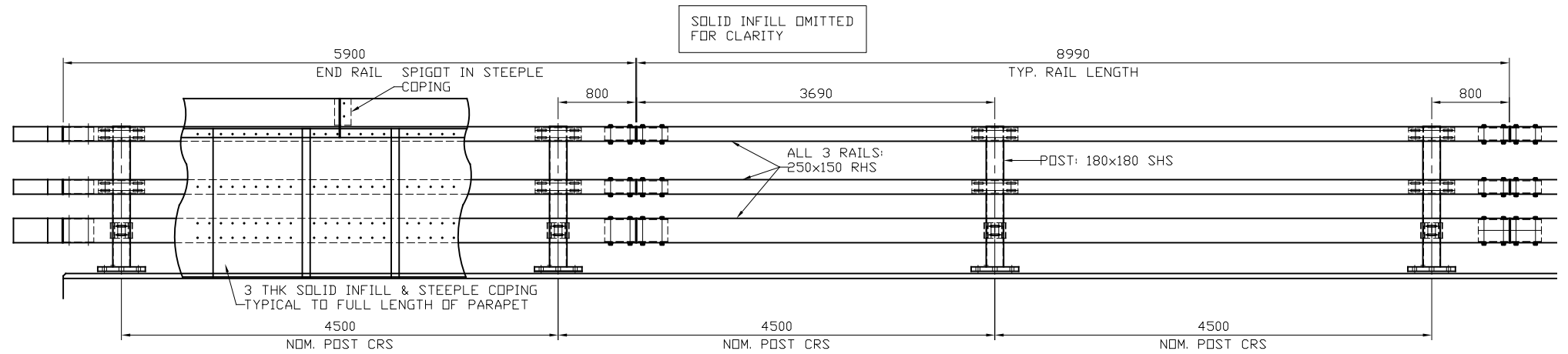




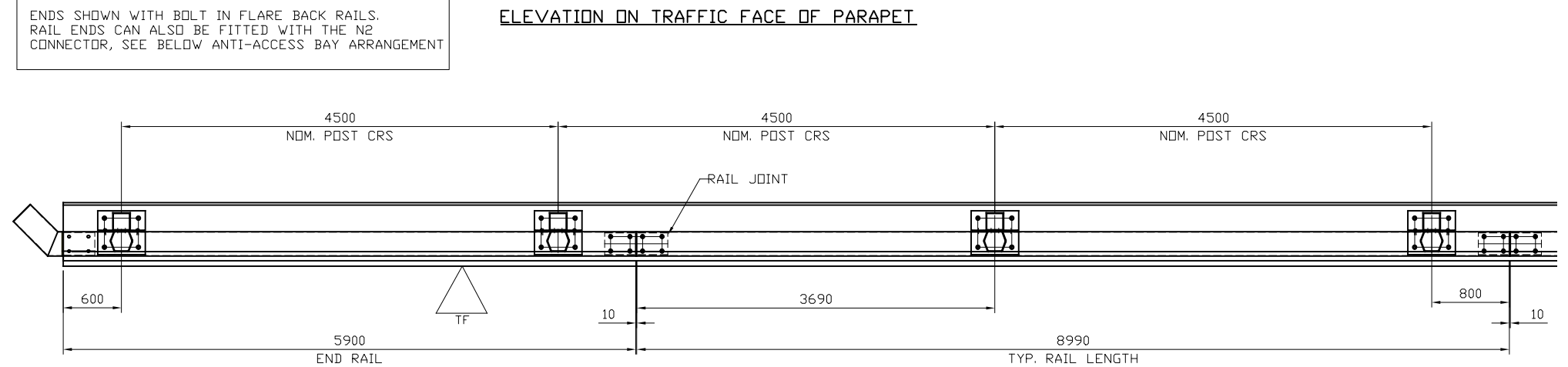
TYPICAL SECTION THROUGH PARAPET



SECTION A-A
BASEPLATE DETAIL



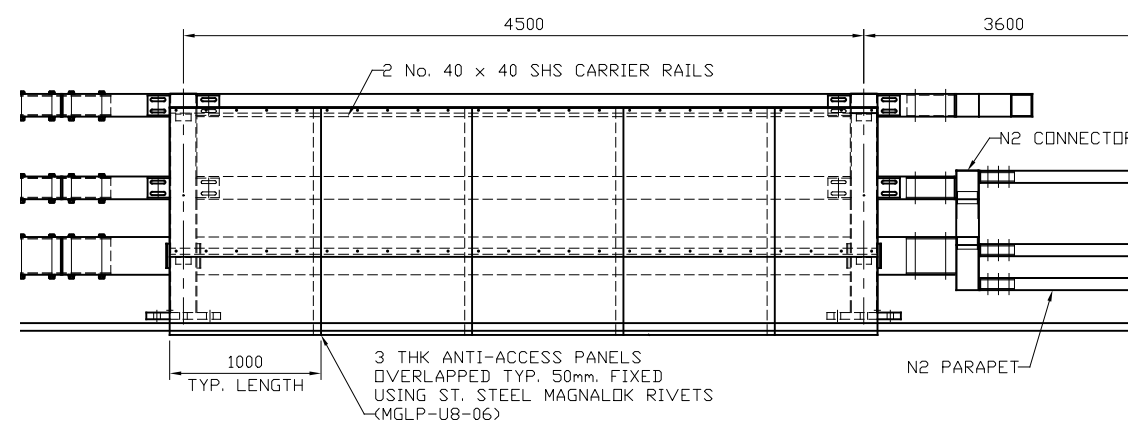
ELEVATION ON TRAFFIC FACE OF PARAPET



PLAN VIEW ON PARAPET LAYOUT

FRONT SOLID INFILL & STEEPLE COPING OMITTED FOR CLARITY

ANTI-ACCESS BAY LOCATION TO BE CONFIRMED BY SPECIFIC SITE DETAILS



ELEVATION ON REAR OF PARAPET
ANTI-ACCESS BAY DETAIL

GENERAL NOTES/SPECIFICATIONS:

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- SPRING WASHERS TO CONFORM TO BS 4464.
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- PARAPET PERFORMANCE IS TO BS EN 1317-1 & BS EN 1317-2.
- IMPACT TEST CRITERIA:- TB71 & TB11
- CONTAINMENT LEVEL:- H4a
- NORMALISED WORKING WIDTH:- W3
- IMPACT SEVERITY LEVEL:- B
- NORMALISED DYNAMIC DEFLECTION:- 0.4m
- POSTS TO BE VERTICAL TO WITHIN ±15mm OVER 1500mm.
- RAILS TO BE SET IN A FLOWING LINE AT MINIMUM HEIGHT OF 1500mm ABOVE THE ADJOINING ROAD/PAVED SURFACE.

REV.	DATE	REMARKS	SIG.
01	28.08.24	ANCHOR & HD REVISED	M.T

TITLE:-
GENERAL ARRANGEMENT
SNH4a VEHICLE PARAPET
WITH STEEPLE COPING
& ANTI-ACCESS



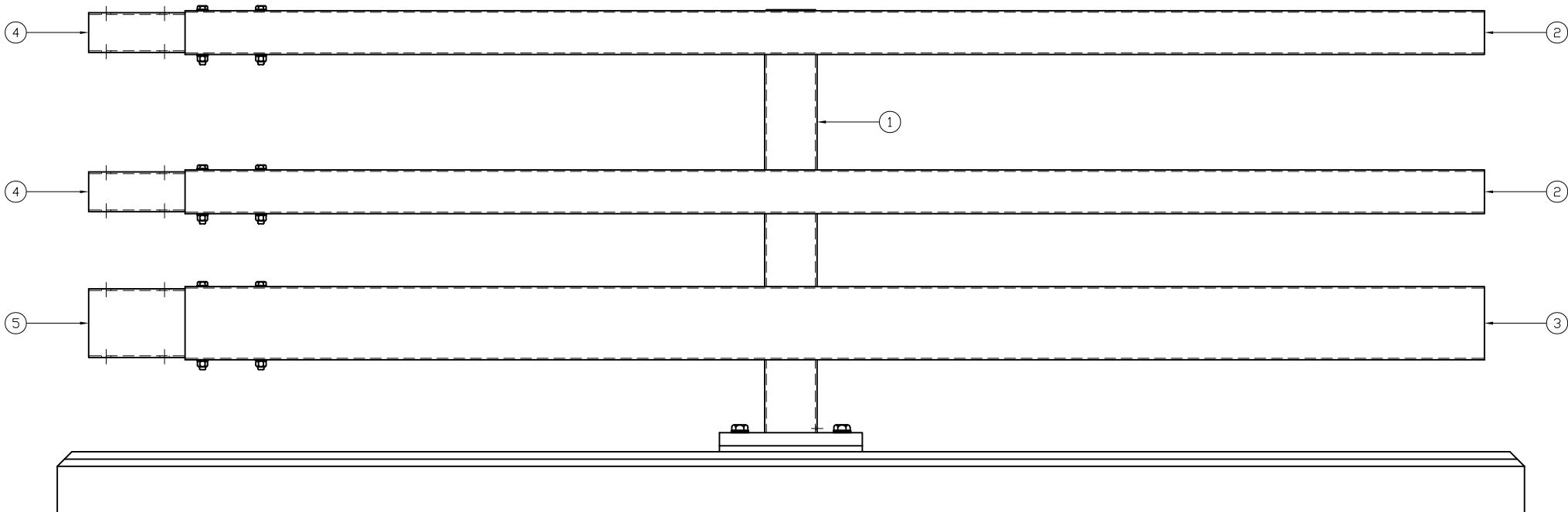
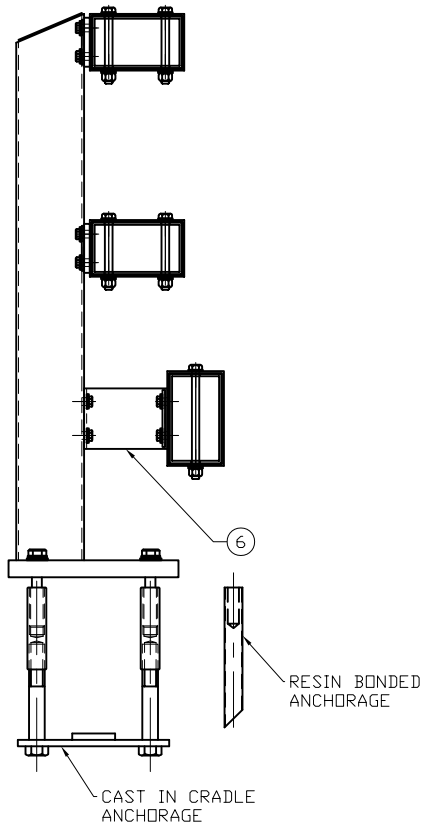
UK LTD
Concord House
Bessmer Way
Scunthorpe
North Lincolnshire, DN15 8XE
Tel: 01724 289119 Fax: 01724 281478

DRAWN:- M. TEAL	CHECKED:- R.B	DRAWING SIZE:- A3
DATE:- 25.03.20	SCALE:- Not to Scale	APPROVED:-
DRG NO:-	SNH4a/GA-003	REV:- 01

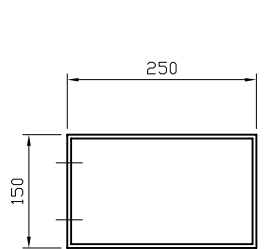


ITEM NAME	QUANTITY (FOR GENERIC SYSTEM)	ITEM NUMBER
SNH4a POST	AS PER CONTRACT REQUIREMENTS	1
TOP/MIDDLE RAILS	2 (GENERIC SYSTEM QUANTITY)	2
BOTTOM RAILS	1 (GENERIC SYSTEM QUANTITY)	3
TOP/MIDDLE RAIL JOINTS (STD/EXP)	1No. P/TOP & MIDDLE RAIL END	4
BOTTOM RAIL JOINTS	1No. P/BOTTOM RAIL END	5
DEFORMATION BRACKET	1No. P/POST	6

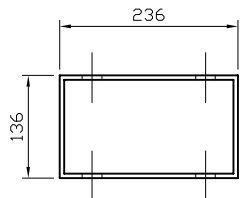
FOR PARAPET GENERAL ARRANGEMENT DETAILS,
SEE DRAWING SNH4A-GA-001



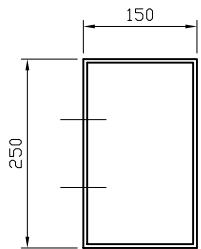
NOTE:
PARAPET POSTS TO BE INSTALLED ON
ONE OF THE FOLLOWING ANCHORAGE SYSTEMS:
• M27x350x300x300 CAST IN CRADLE ANCHOR
• SSR-122-VDP-TI M27x45x370 RESIN BONDED ANCHOR



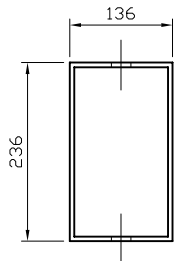
TOP/MIDDLE RAIL
SECTION
SCALE: 1:10



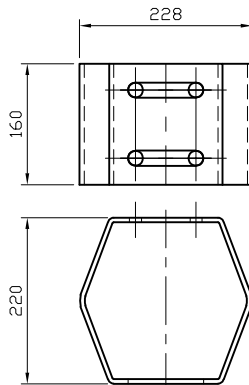
TOP/MIDDLE RAIL
JOINT SECTION
SCALE: 1:10



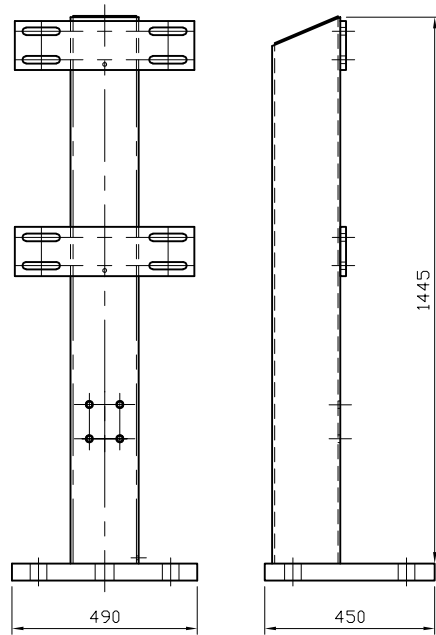
BOTTOM RAIL
SECTION
SCALE: 1:10



BOTTOM RAIL
JOINT SECTION
SCALE: 1:10



LOWER RAIL
DEFORMATION BRACKET
SCALE: 1:10



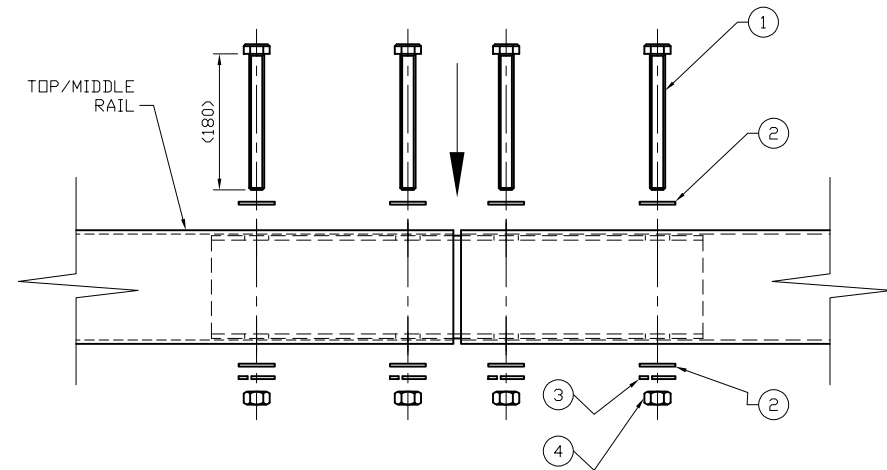
SNH4a POST
SCALE: 1:20

00	18/08/25	DRAWING CREATED	H.B
REVN.	DATE	REMARKS	SIG.

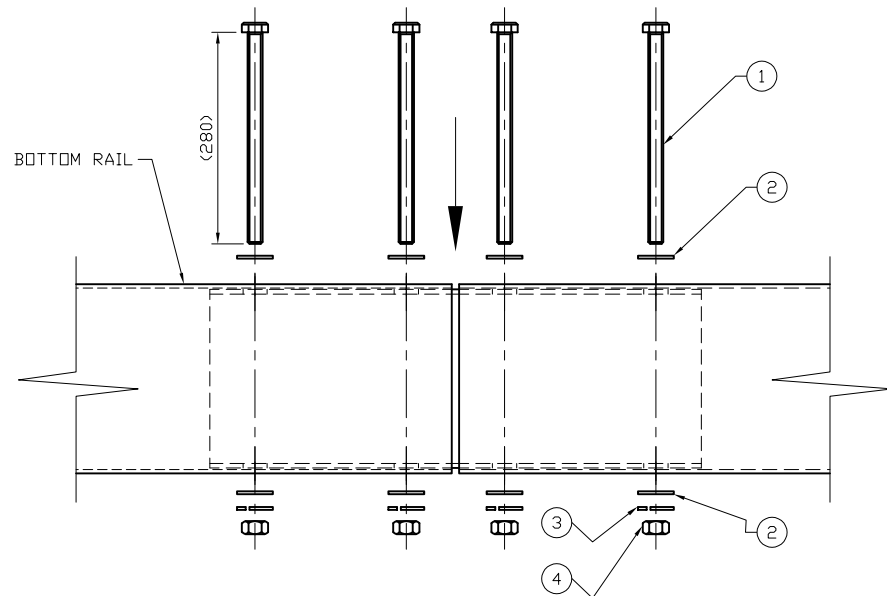
TITLE:-
SNH4a INSTALLATION DETAILS
MAIN COMPONENTS
IDENTIFICATION SHEET

SAFEROAD
UK LTD
Concord House
Bessemer Way
Scunthorpe
North Lincolnshire, DN15 8XE
Tel: 01724 289119

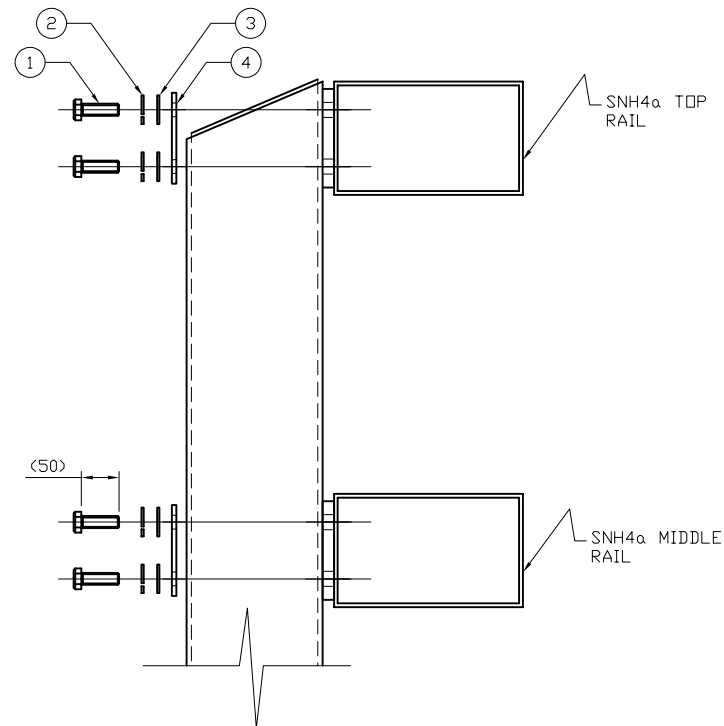
DRG NO:- SNH4a-GA-004 REV:- 00



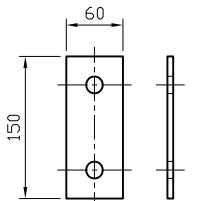
TOP/MIDDLE RAIL JOINT ASSEMBLY			
ITEM NAME	MATERIAL & GRADE	ITEM NUMBER	QUANTITY P/JOINT
M20x180 SET SCREW	8.8 MILD STEEL GALV	1	8
M20 FORM 'A' FLAT WASHER	MILD STEEL DIN 125 GALV	2	16
M20 SPRING WASHER	MILD STEEL DIN 7980 GALV	3	8
M20 HEXAGON NUT	8 MILD STEEL GALV	4	8



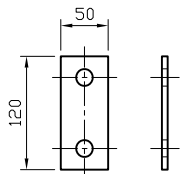
BOTTOM RAIL JOINT ASSEMBLY			
ITEM NAME	MATERIAL & GRADE	ITEM NUMBER	QUANTITY P/JOINT
M20x280 SET SCREW	8.8 MILD STEEL GALV	1	4
M20 FORM 'A' FLAT WASHER	MILD STEEL DIN 125 GALV	2	8
M20 SPRING WASHER	MILD STEEL DIN 7980 GALV	3	4
M20 HEXAGON NUT	8 MILD STEEL GALV	4	4



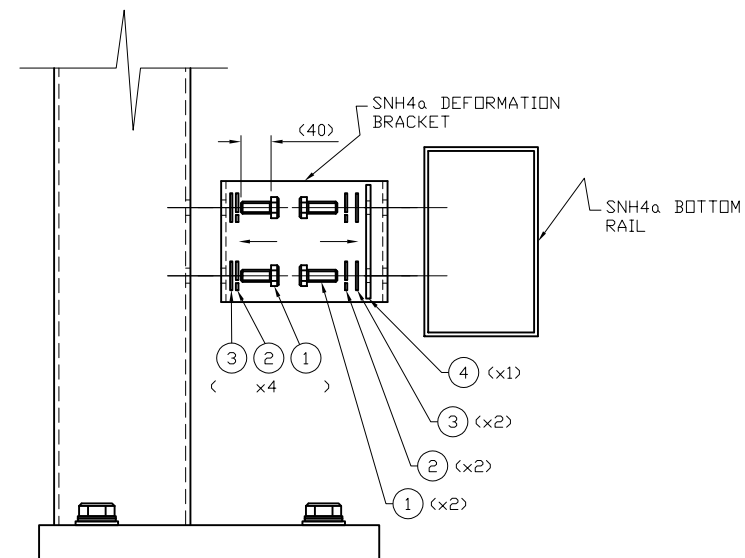
TOP/MIDDLE RAIL TO POST ASSEMBLY			
ITEM NAME	MATERIAL & GRADE	ITEM NUMBER	QUANTITY P/POST
M16x50 SET SCREW	8.8 MILD STEEL GALV	1	8
M16 SPRING WASHER	MILD STEEL DIN 7980 GALV	2	8
M16 FORM 'A' FLAT WASHER	MILD STEEL DIN 125 GALV	3	8
TYPE 'A' WASHER PLATE	S275JD GALV	4	4



TYPE 'B'
WASHER PLATE
SCALE: 1:8



TYPE 'A'
WASHER PLATE
SCALE: 1:8



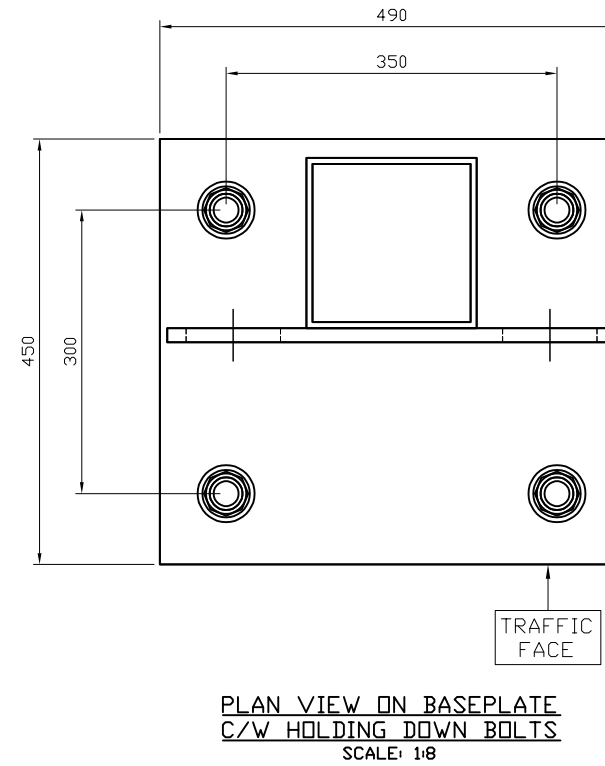
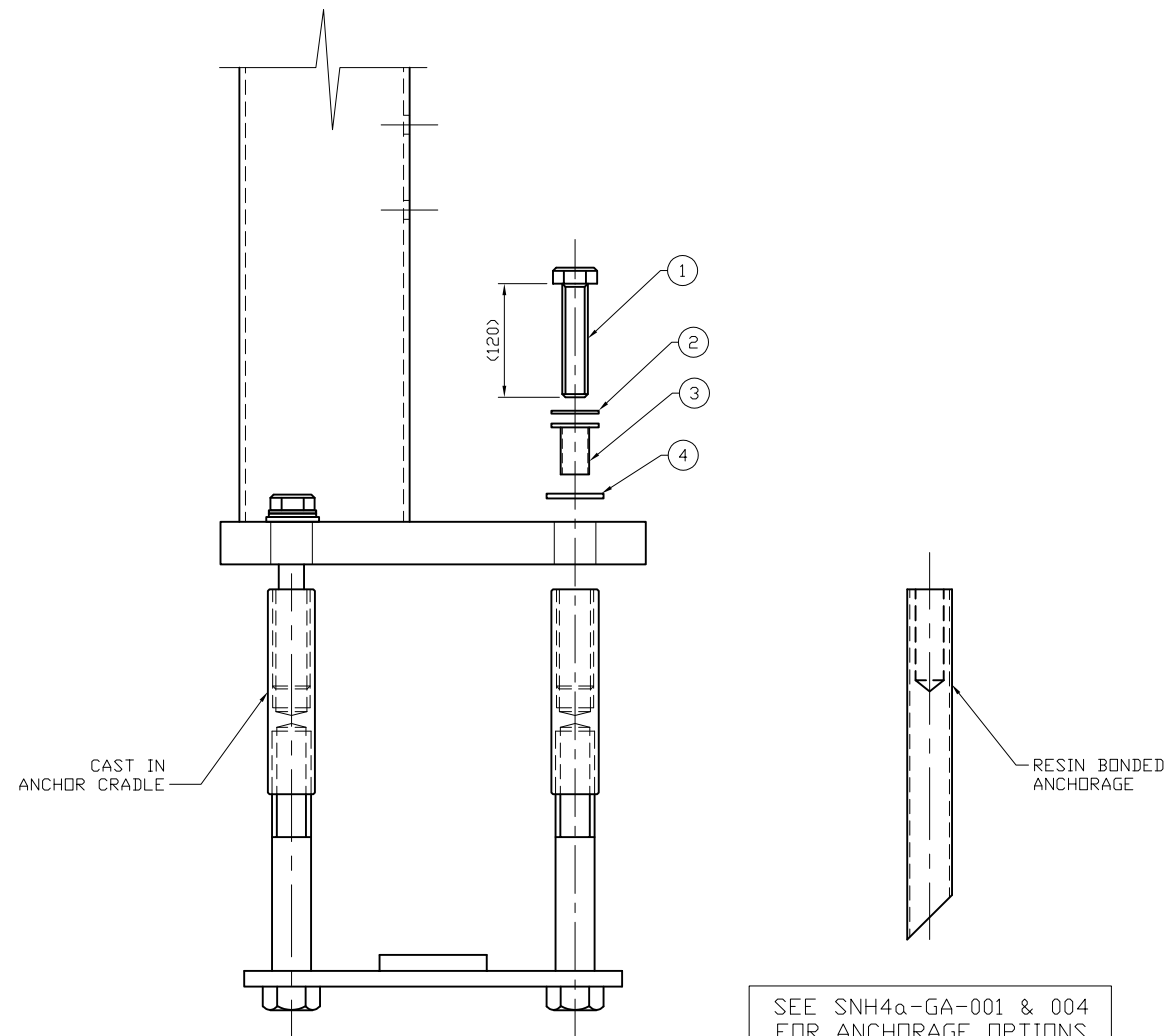
BOTTOM RAIL TO POST ASSEMBLY			
ITEM NAME	MATERIAL & GRADE	ITEM NUMBER	QUANTITY P/POST
M16x40 SET SCREW	8.8 MILD STEEL GALV	1	6
M16 SPRING WASHER	MILD STEEL DIN 7980 GALV	2	6
M16 FORM 'A' FLAT WASHER	MILD STEEL DIN 125 GALV	3	6
TYPE 'B' WASHER PLATE	S275JD GALV	4	1

REV.	DATE	REMARKS	SIG.
01	02/01/26	FIXING ORDER AMENDED	H.B
00	18/08/25	DRAWING CREATED	H.B

TITLE:-
SNH4a INSTALLATION DETAILS
PARAPET FIXINGS
INSTALLATION SCHEMATIC

SHEET 1 (1 OF 2)

SAFEROAD
UK LTD
Concord House
Bessemer Way
Scunthorpe
North Lincolnshire, DN15 8XE
Tel: 01724 289119



HOLDING DOWN ASSEMBLY			
ITEM NAME	MATERIAL & GRADE	ITEM NUMBER	QUANTITY P/POST
M27x120 SET SCREW	A4/80 STAINLESS STEEL	1	4
M27 FORM 'A' FLAT WASHER	A4/80 STAINLESS STEEL	2	4
M27 LARGE TOP HAT WASHER	NYLON TYPE 66	3	4
M30 FORM 'C' FLAT WASHER	8.8 MILD STEEL GALV	4	4

00	18/08/25	DRAWING CREATED	H.B
REV.	DATE	REMARKS	SIG.

TITLE:-

SNH4a INSTALLATION DETAILS
PARAPET FIXINGS
INSTALLATION SCHEMATIC

SHEET 2 (2 OF 2)



UK LTD
Concord House
Bessemer Way
Scunthorpe
North Lincolnshire, DN15 8XE
Tel: 01724 289119

DRG NO:- SNH4a-GA-005B

REV:- 00