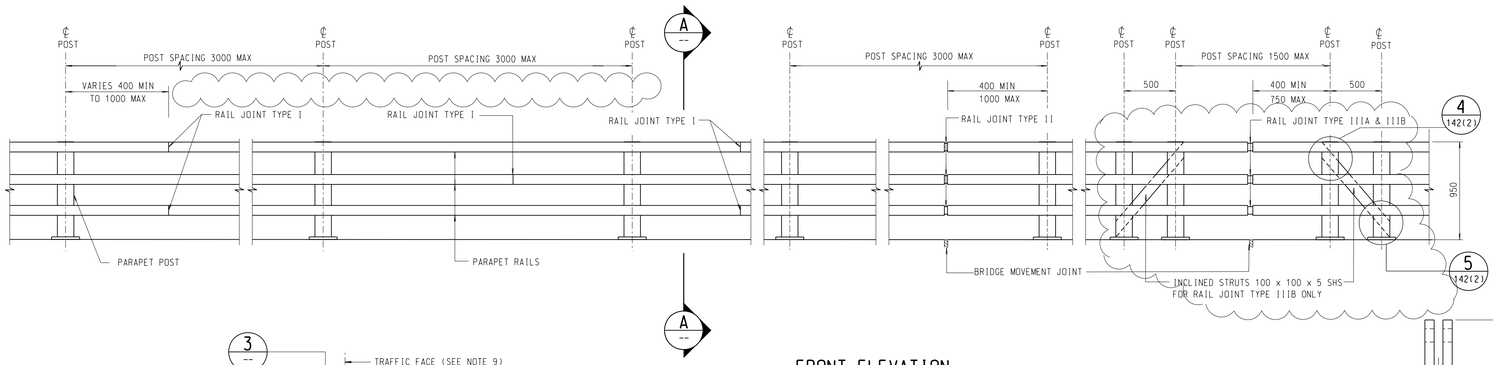
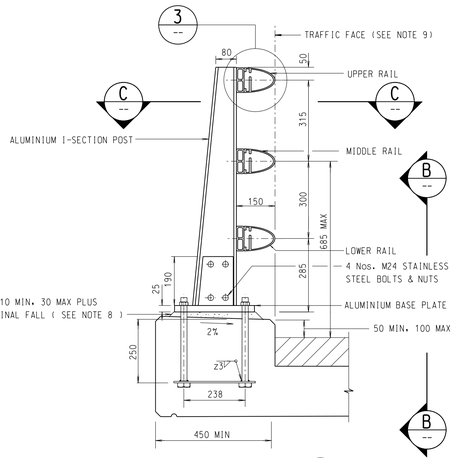
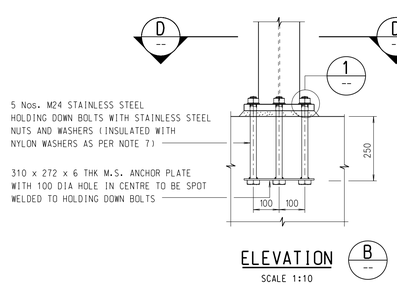


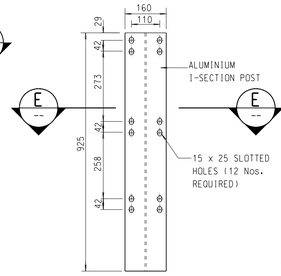
FRONT ELEVATION
SCALE 1:25



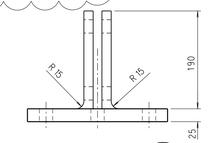
SECTION
SCALE 1:10



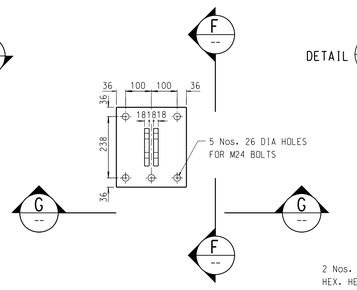
ELEVATION
SCALE 1:10



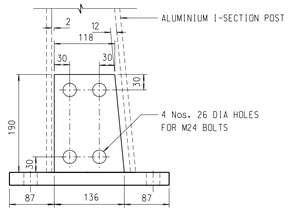
FRONT ELEVATION OF POST
SCALE 1:10



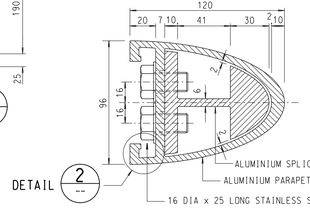
ELEVATION
SCALE 1:5



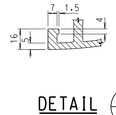
PLAN OF BASE PLATE
SCALE 1:10



ELEVATION
SCALE 1:5



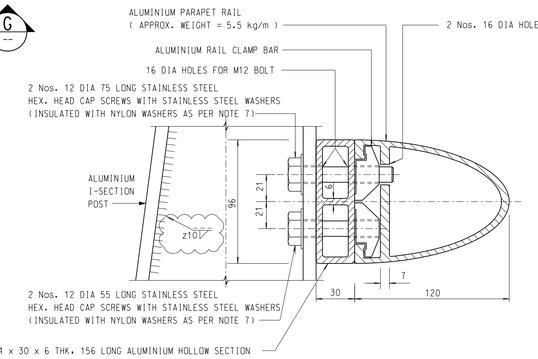
DETAIL 2
SCALE 1:2



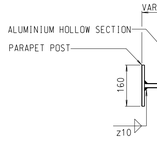
DETAIL 2
SCALE 1:2

SPLICE BAR
SCALE 1:5
(APPROX. WEIGHT = 6.5kg/m)

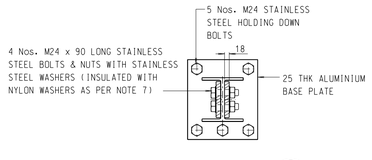
SECTION
SCALE 1:2



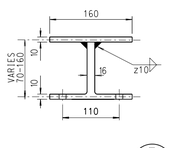
DETAIL 3
SCALE 1:2



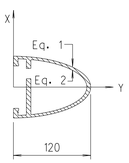
SECTION
SCALE 1:10



SECTION
SCALE 1:10



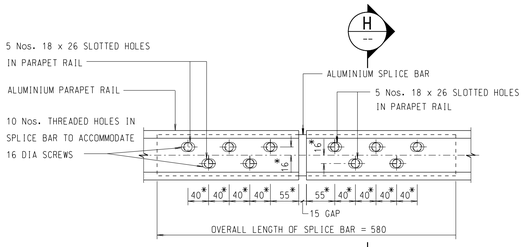
SECTION
SCALE 1:5



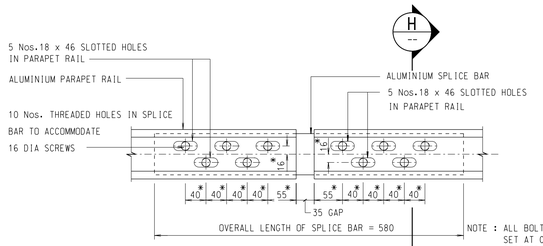
Eq. 1 : $\frac{x^2}{48^2} + \frac{y^2}{120^2} = 1$

Eq. 2 : $\frac{x^2}{43^2} + \frac{y^2}{110^2} = 1$

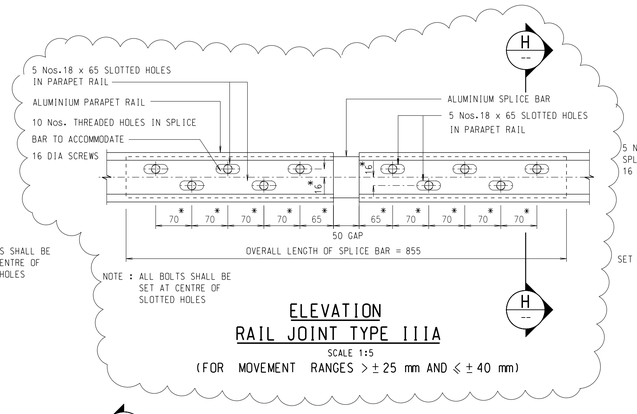
ELLIPTICAL EQUATIONS FOR RAIL
SCALE 1:4



ELEVATION
RAIL JOINT TYPE I
SCALE 1:5

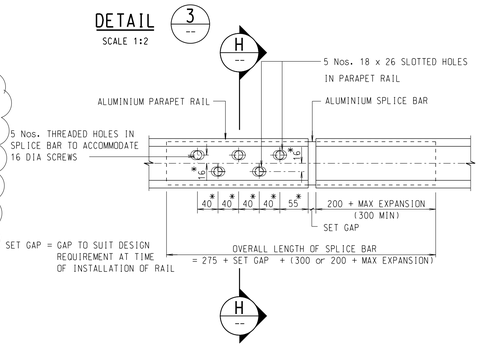


ELEVATION
RAIL JOINT TYPE II
SCALE 1:5
(FOR MOVEMENT RANGES UP TO AND INCLUDING ± 25 mm)

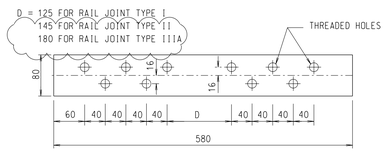


ELEVATION
RAIL JOINT TYPE IIIA
SCALE 1:5
(FOR MOVEMENT RANGES > ± 25 mm AND ⩽ ± 40 mm)

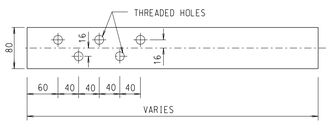
DETAIL 3
SCALE 1:2



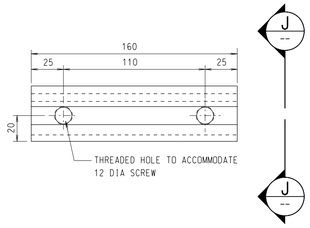
ELEVATION
RAIL JOINT TYPE IIIB
SCALE 1:5
(FOR MOVEMENT RANGES EXCEEDING ± 40 mm)



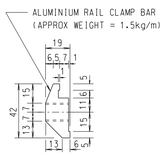
ELEVATION OF ALUMINIUM SPLICE BAR
RAIL JOINT TYPE I & TYPE II , IIIA
SCALE 1:5



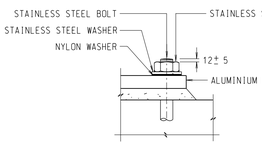
ELEVATION OF ALUMINIUM SPLICE BAR
RAIL JOINT TYPE IIIB
SCALE 1:5



ELEVATION OF ALUMINIUM RAIL CLAMP BAR
SCALE 1:2



ELEVATION
SCALE 1:2



DETAIL 1
SCALE 1:5

13. CLASS OF CONCRETE SURFACE FINISH SHALL BE F3 AS DESCRIBED IN SECTION 14 OF THE GENERAL SPECIFICATION.

14. CONCRETE COVER TO REINFORCEMENT SHALL BE 40mm.

15. REINFORCEMENT
- STEEL REINFORCEMENT SHALL COMPLY WITH CS2:1995
- NOTATION OF REINFORCEMENT

6T25-7-150
- 150 BAR SPACING
- 7 BAR MARK
- 25 BAR DIAMETER
- T TYPE OF BAR
- 6 No. OF BARS

TYPE OF BAR:
T = TYPE 2 DEFORMED HIGH YIELD STEEL BAR IN GRADE 460

16. ALL CONCRETE CORNERS SHALL HAVE 20 x 20 CHAMFER UNLESS SHOWN OTHERWISE.

LEGEND :
✳ DENOTES DIMENSION FOR LOCATION OF SLOTTED HOLE IN PARAPET RAIL

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. MATERIAL FOR PARAPET TO BE A WROUGHT ALUMINIUM ALLOY COMPLYING WITH B.S. 1474 : 1987 HAVING A TENSILE STRENGTH AND 0.2% PROOF STRESS (IF AVAILABLE) NOT LESS THAN 220 N/mm^2.
3. WELDING OF ALUMINIUM SHALL BE IN ACCORDANCE WITH BS EN 1011-4.
4. WELDING SYMBOLS ARE IN ACCORDANCE WITH BS EN 499.
5. POSTS ARE TO BE VERTICAL AFTER ERECTION.
6. RAIL JOINTS ARE TO BE LIMITED TO NOT MORE THAN TWO OF THE THREE RAILS BETWEEN ANY TWO VERTICAL POSTS EXCEPT AT BRIDGE MOVEMENT JOINT.
7. ALL STAINLESS STEEL HOLDING DOWN BOLTS AND NUTS SHALL BE GRADE A4-80 TO BS EN ISO 3506-1 AND BS EN ISO 3506-2 WITH COMPATIBLE STAINLESS STEEL WASHERS, GRADE A2-70 MAY BE USED IN NON-MARINE ENVIRONMENT WHERE SPECIFIED IN THE CONTRACT.
8. EXCEPT STAINLESS STEEL HOLDING DOWN BOLTS AND NUTS, ALL OTHER STAINLESS STEEL BOLTS AND NUTS SHALL BE GRADE A2-70 TO BS EN ISO 3506-1 AND BS EN ISO 3506-2 WITH COMPATIBLE STAINLESS STEEL WASHERS.
9. A NYLON OR OTHER APPROVED PLASTIC WASHER SHALL BE PROVIDED AT EVERY INTERFACE BETWEEN STAINLESS STEEL WASHER AND ALUMINIUM ALLOY.
10. BEDDING SHALL BE CEMENT / SAND GROUT WITH MIN. COMPRESSIVE SIRENGTH OF 40 N/mm .
11. THE TRAFFIC FACE OF RAILS SHALL BE SET IN LINE WITH THE EDGE OF PLINTH WITHIN THE FOLLOWING TOLERANCES:
(i) UPPER RAIL + 25mm
(ii) MIDDLE RAIL + 3mm
(iii) LOWER RAIL - 25mm
(+ve TOWARDS TRAFFIC: -ve AWAY FROM TRAFFIC)
12. CONCRETE GRADE SHALL BE AS FOLLOWS:
FOOTING 30/20
BLINDING 10/20

no.	date	description	initial
C	08/07	MAXIMUM LENGTH BETWEEN SPLICES DELETED AND RAIL JOINT TYPE III CHANGED TO IIIA & IIIB	SIGNED K.W.MO (E/P2-4) / SIGNED C.K.CHAN (SE/P2)
B	6/03	DIMENSIONS OF RAIL CLAMP BAR REVISED	SIGNED M.H.TAM (E/P2-4) / SIGNED C.K.CHAN (SE/P2)
A	4/02	DIMENSIONS ADDED ON ELEVATION F-F	SIGNED M.H.TAM (E/P2-4) / SIGNED W.C.CHAN (SE/P2)

REVISION

		name	signature	date
	designed	M.H. TAM	SIGNED	OCT. 01
	drawn	K.H. SO	SIGNED	OCT. 01
checked	senior technical officer	M.N. LI	SIGNED	NOV. 01
checked	project engineer	M.H. TAM	SIGNED	JAN. 02
checked	senior engineer	W.C. CHAN	SIGNED	FEB. 02

approved
SIGNED — FEB. 02
P. C. WONG — date
Chief Highway Engineer

contract no.

file no.

project no.

contract

drawing title
ALUMINIUM VEHICLE PARAPET

SHEET 1 OF 2

drawing no.
SSD142(1)-C

scale
AS SHOWN

office
BRIDGES AND STRUCTURES DIVISION 結構橋樑部及

HIGHWAYS DEPARTMENT HONG KONG 路政署 香港

ORIGINAL SIGNED

0 10 20 30 40 50 mm
1 : 1 SCALE BAR

B1 SIZE 1000 X 707mm