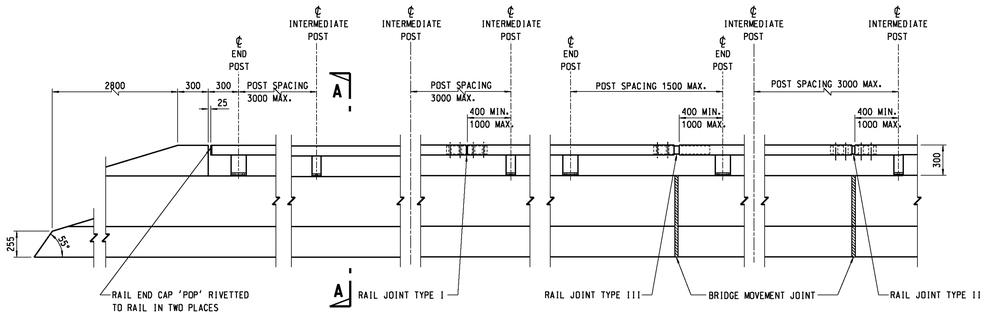
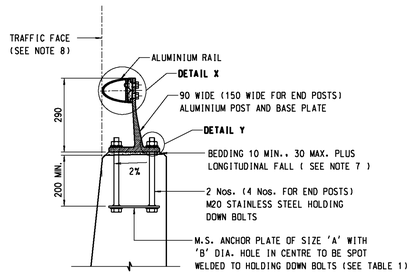
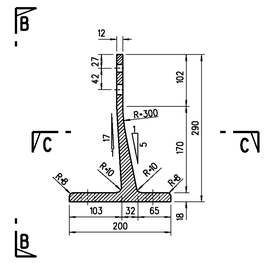


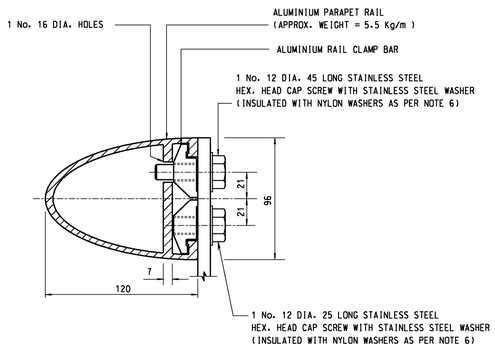

## FRONT ELEVATION
SCALE 1:25

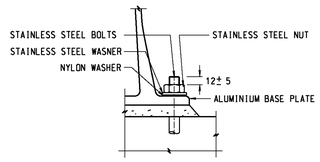



## SECTION A-A
SCALE 1:10




## TYPICAL SECTION OF POST AND BASE PLATE
SCALE 1:5

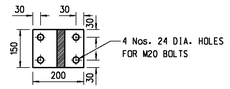


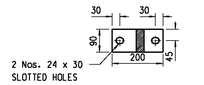

## DETAIL Y
SCALE 1:5

TABLE 1

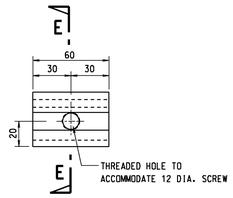
| POST | 'A' | 'B' |
|---|---|---|
| INTERMEDIATE | 200 x 90 x 6 THICK | 30 |
| END | 200 x 150 x 6 THICK | 50 |



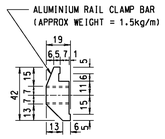

## SECTION C-C FOR END POSTS
SCALE 1:10



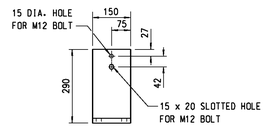

## SECTION C-C FOR INTERMEDIATE POSTS
SCALE 1:10



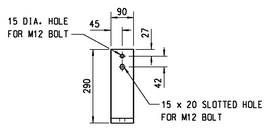

## DETAIL X
SCALE 1:2




## ELEVATION OF ALUMINIUM RAIL CLAMP BAR
SCALE 1:2




## ELEVATION E-E
SCALE 1:2

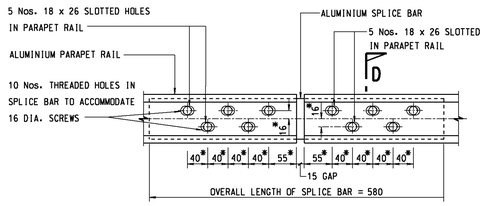



## ELEVATION B-B FOR END POSTS
SCALE 1:10

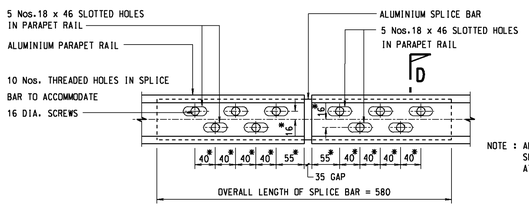
## ELEVATION B-B FOR INTERMEDIATE POSTS
SCALE 1:10

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. POSTS ARE TO BE VERTICAL AFTER ERECTION.
4. ALL STAINLESS STEEL HOLDING DOWN BOLTS AND NUTS SHALL BE GRADE A4-80 TO BS EN ISO3506-1 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.
5. 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 WASHER.
6. A NYLON OR OTHER APPROVED PLASTIC WASHER SHALL BE PROVIDED AT EVERY INTERFACE BETWEEN STAINLESS STEEL WASHER AND ALUMINIUM ALLOY.
7. BEDDING SHALL BE CEMENT / SAND GROUT WITH MIN. COMPRESSIVE STRENGTH OF 40N/$mm^2$.
8. THE TRAFFIC FACE OF RAILS SHALL BE SET IN LINE WITH THE TOP EDGE OF CONCRETE PARAPET.

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

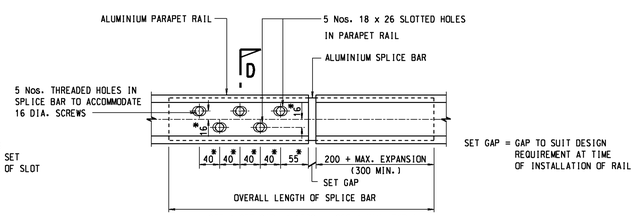



## ELEVATION RAIL JOINT TYPE I
SCALE 1:5



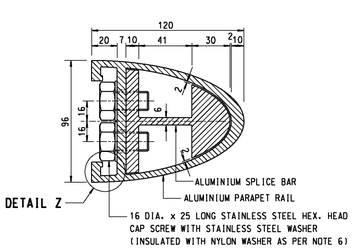

NOTE : ALL BOLTS SHALL BE SET AT CENTRE OF SLOT

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

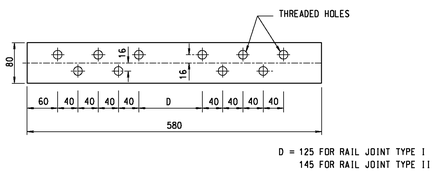



SET GAP = GAP TO SUIT DESIGN REQUIREMENT AT TIME OF INSTALLATION OF RAIL

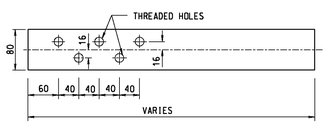
## ELEVATION RAIL JOINT TYPE III
(FOR MOVEMENT RANGES EXCEEDING ± 25 mm)
SCALE 1:5




## SECTION D-D
SCALE 1:2

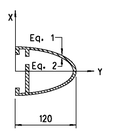



## ELEVATION OF ALUMINIUM SPLICE BAR RAIL JOINT TYPE I & TYPE II
SCALE 1:5




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


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


## DETAIL Z
SCALE 1:2

| no. | date | description | initial |
|---|---|---|---|
| REVISION | | | |

| | | name | signature | date |
|---|---|---|---|---|
| designed | | W.H. TAM | *SIGNED* | SEP 02 |
| drawn | | H.C. YU | *SIGNED* | SEP 02 |
| checked | senior technical officer | P.S. CHAN | *SIGNED* | SEP 02 |
| checked | project engineer | M.H. TAM | *SIGNED* | SEP 02 |
| checked | senior engineer | W.C. CHAN | *SIGNED* | SEP 02 |

approved
*SIGNED* — SEP 2002
R.K.W. WONG
Chief Highway Engineer
date

contract no.

file no.

project no.

contract

drawing title
ALUMINIUM TOP RAIL FOR CONCRETE VEHICLE PARAPET

drawing no.
SSD144

scale
AS SHOWN

office
STRUCTURES DIVISION 結構部

HIGHWAYS DEPARTMENT 路政署 香港
HONG KONG

Scale 1 : 1 0 10 20 30 40 50 60 70 80 90 100mm

A1 SIZE 1000 X 707mm