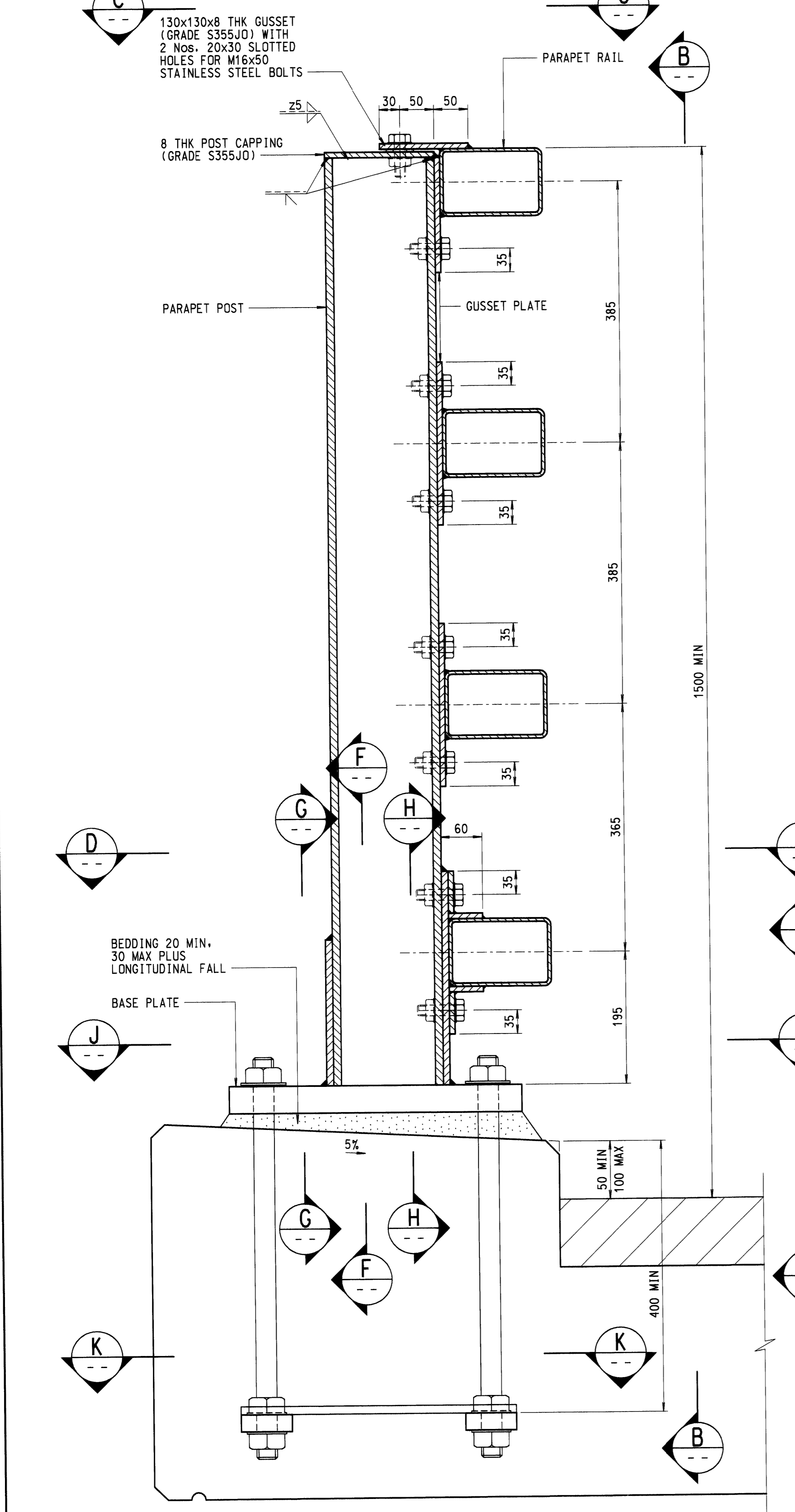
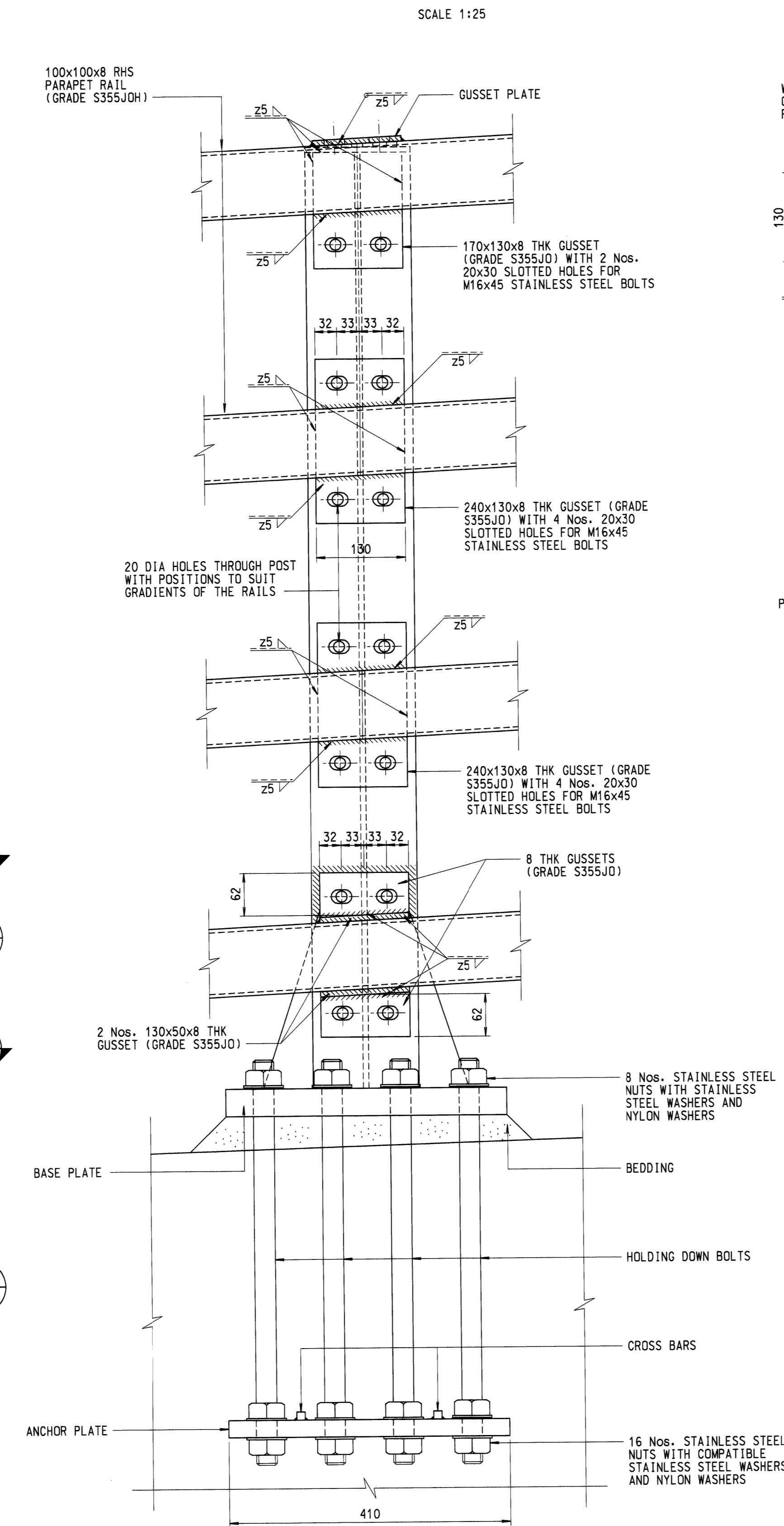


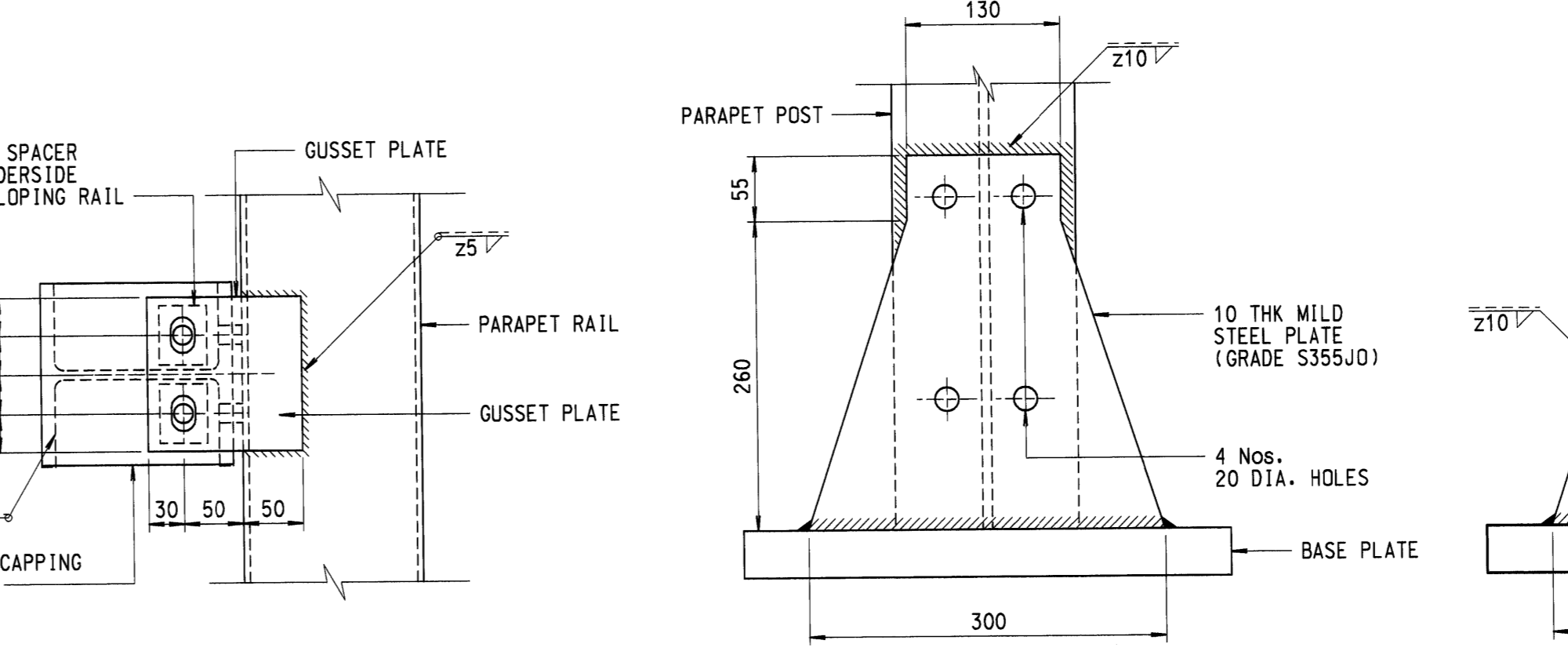
**FRONT ELEVATION**  
SCALE 1:25



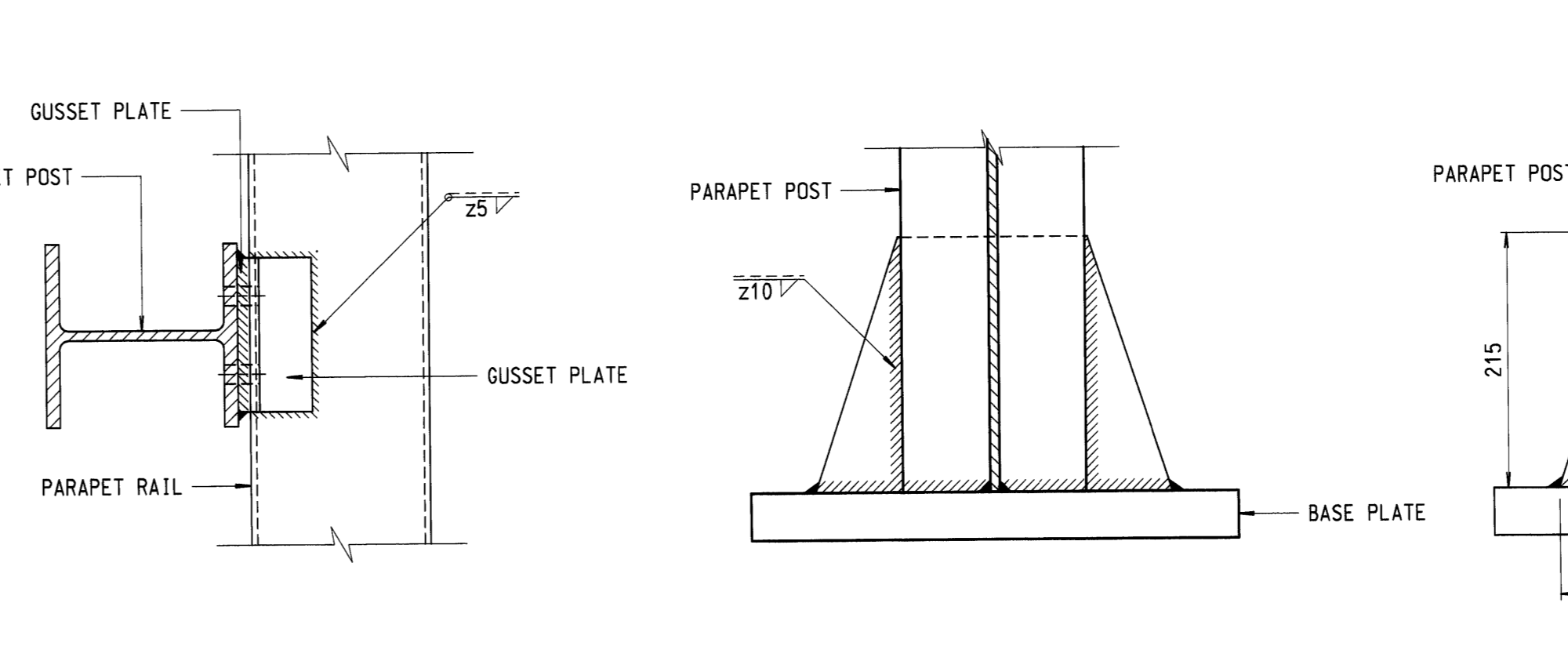
**SECTION A**  
SCALE 1:5



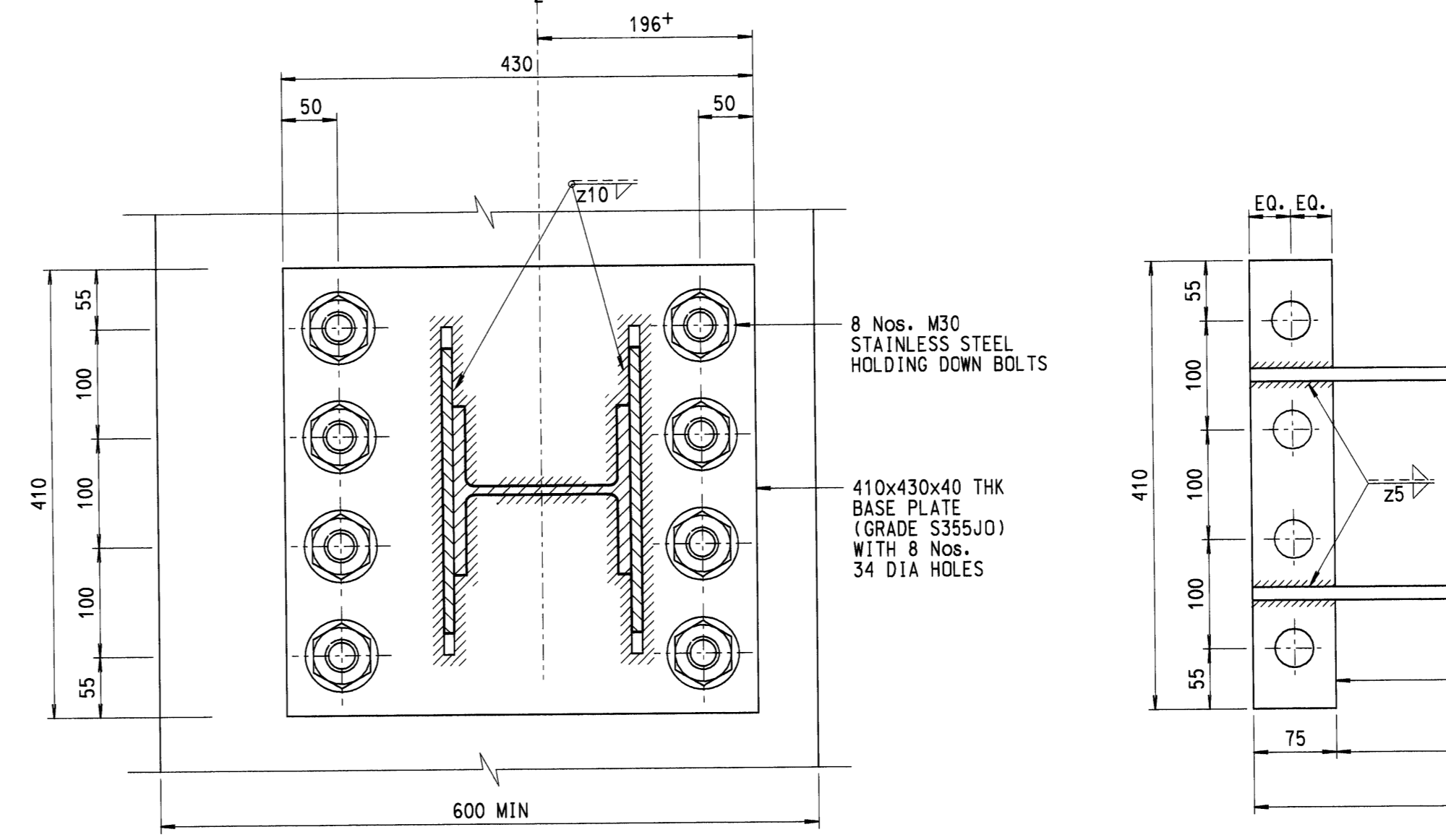
**ELEVATION B**  
SCALE 1:5



**PLAN C**  
SCALE 1:5



**SECTION D**  
SCALE 1:5



**SECTION J**  
SCALE 1:5

15. AFTER FABRICATION, ALL STEELWORK SHALL BE PAINTED WITH THE FOLLOWING PAINT SYSTEM:  
LIFE TO FIRST MAINTENANCE : 5 - 10 YEARS.  
PRETREATMENT : TWO-PACK ETCH PRIMER  
PRIMER : CHLORINATED RUBBER ZINC PHOSPHATE PRIMER, 70um MINIMUM TOTAL DRY-FILM THICKNESS.  
UNDERCOAT : MICACEOUS IRON OXIDE CHLORINATED RUBBER UNDERCOAT, 100um MINIMUM TOTAL DRY-FILM THICKNESS.  
FINISH : CHLORINATED RUBBER FINISH COAT THAT IS RESISTANT TO FISH OIL AND OTHER ANIMAL AND VEGETABLE OILS, 60um MINIMUM TOTAL DRY-FILM THICKNESS.
16. THE TRAFFIC FACE OF RAILS SHALL BE SET IN LINE WITH THE TOP EDGE OF PLINTH WITHIN THE FOLLOWING TOLERANCES:  
(i) UPPER RAIL + 25mm  
(ii) MIDDLE RAILS ± 3mm  
(iii) LOWER RAIL - 25mm  
(+VE TOWARDS TRAFFIC; -VE AWAY FROM TRAFFIC)
17. BASEPLATES SHALL BE SET LEVEL HORIZONTALLY.
18. ON SITE WELDING IS NOT PERMITTED UNLESS OTHERWISE APPROVED BY THE ENGINEER.

- NOTES:
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SPECIFIED.
  - ALL STEELWORK SHALL BE HOT ROLLED / FINISHED SECTIONS COMPLYING WITH BS4, BS EN 10056 OR BS EN 10210-2 AS APPROPRIATE.
  - STEELWORK SHALL BE GRADE S355J0 TO BS EN 10025 OR GRADE S355J0H TO BS EN 10210-2 OR EQUIVALENT.
  - ALL STEELWORK SHALL BE HOT DIP GALVANIZED TO BS EN ISO 1461 OR EQUIVALENT.
  - WELDING OF STEEL SHALL BE IN ACCORDANCE WITH BS EN 1011-1 AND BS EN 1011-2 AND ELECTRODES SHALL BE IN ACCORDANCE WITH BS EN 499.
  - WELDING SYMBOLS ARE IN ACCORDANCE WITH BS499
  - WELDS ARE 6mm CONTINUOUS FILLET WELDS UNLESS OTHERWISE SPECIFIED.
  - STAINLESS STEEL 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.
  - A NYLON OR OTHER APPROVED PLASTIC WASHER SHALL BE PROVIDED AT EVERY INTERFACE BETWEEN STAINLESS STEEL AND GALVANIZED STEEL.
  - FASTENERS OTHER THAN STAINLESS STEEL MATERIALS SHALL BE CADMIUM OR ZINC ELECTROPLATED, HOT-DIP GALVANIZED, OR SHERARDISED TO THE APPROPRIATE BRITISH STANDARDS.
  - PARAPET POSTS SHALL BE FIXED VERTICALLY AND BASE PLATES SHALL BE BOLTED DOWN TIGHTLY WITH LEVELS ADJUSTED BY STEEL SHIMS.
  - RAIL EXPANSION JOINTS SHALL BE PROVIDED AT ALL STRUCTURE MOVEMENT JOINTS.
  - PARAPET RAILS SHALL BE CONTINUOUS OVER AT LEAST TWO POSTS. MAXIMUM RAIL LENGTH SHALL BE 12000mm.
  - BEDDING SHALL BE CEMENT / SAND GROUT WITH MINIMUM COMPRESSIVE STRENGTH OF 40N/mm<sup>2</sup>.

- LEGEND:
- + DIMENSION TO BE DETERMINED ON SITE
- WELDING SYMBOLS:
- z20 = THROAT THICKNESS
  - z = LEG LENGTH
  - 20 = WELD DIMENSION
  - Fillet weld on the arrow side
  - Fillet weld on the other side
  - Single-bevel butt weld on arrow side
  - V butt weld on arrow side
  - All round weld

no.	date	description	initial
REVISION			
designed	K. W. MO	<i>[Signature]</i>	06/07
drawn	T. W. LAM	<i>[Signature]</i>	07/07
senior technical officer	S. F. CHAN	<i>[Signature]</i>	07/07
project engineer	K. W. MO	<i>[Signature]</i>	08/07
senior engineer	C. K. CHAN	<i>[Signature]</i>	08/07
approved	<i>[Signature]</i>		9/8/07
	P. K. LEE		date
	Chief Highway Engineer		

contract no. \_\_\_\_\_

file no. \_\_\_\_\_

project no. \_\_\_\_\_

contract \_\_\_\_\_

drawing title

**L3 4-RAIL STEEL PARAPET (TYPE PDN)**

(SHEET 1 OF 2)

drawing no. **SSD164(1)** scale **AS SHOWN**

office **BRIDGES AND STRUCTURES DIVISION** 結構橋樑部及

**HIGHWAYS DEPARTMENT** 路政署

HONG KONG