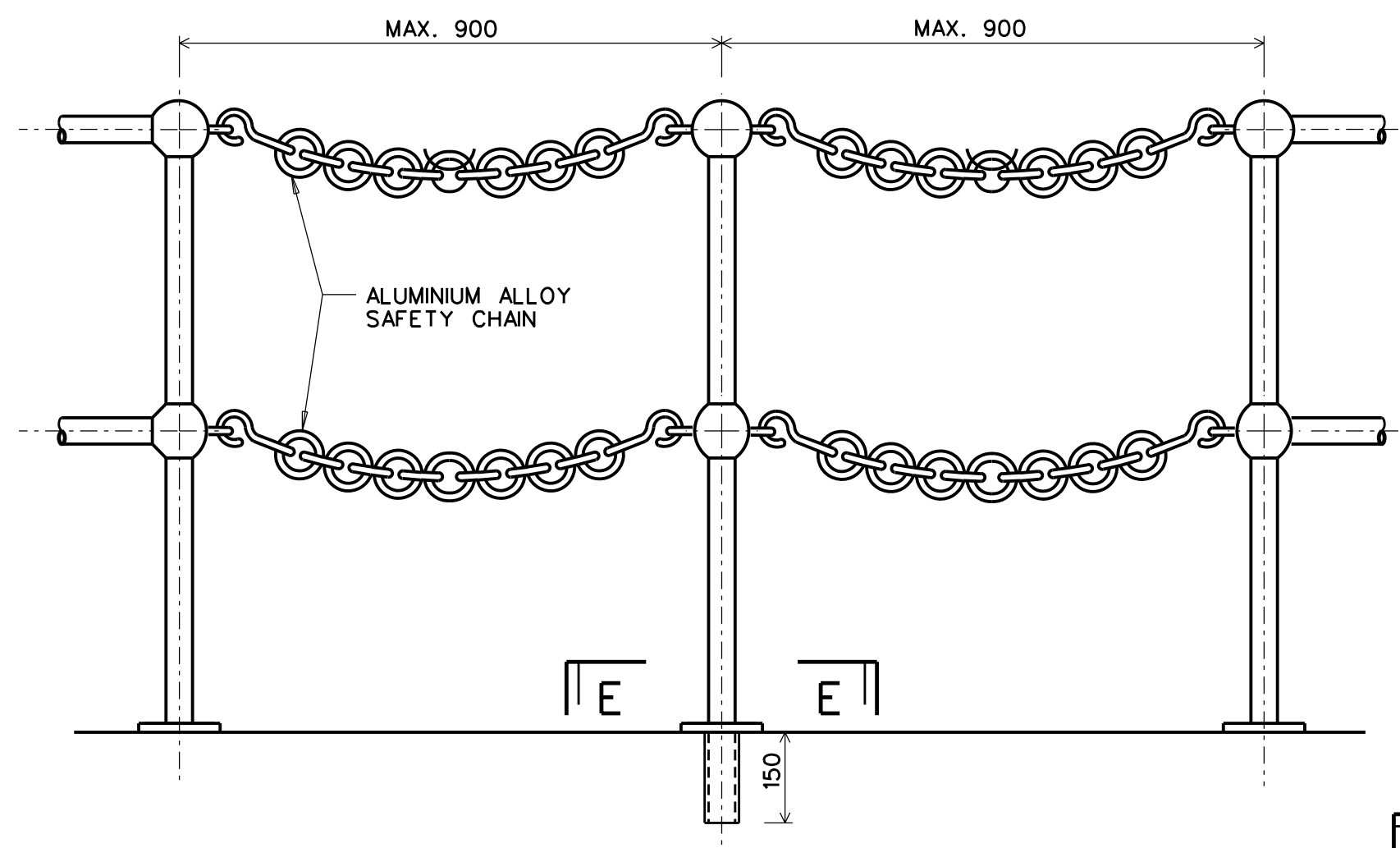
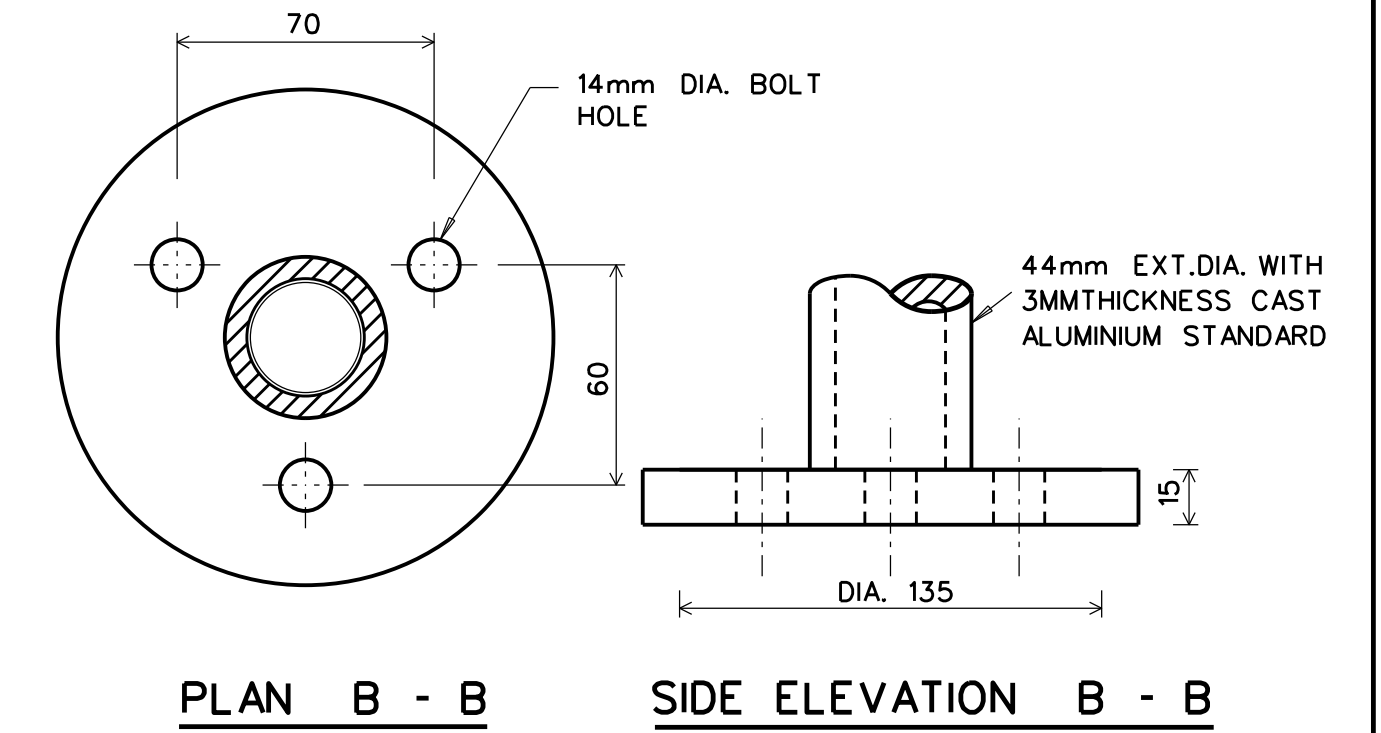


ANGLE STANDARD
SCALE 1:10



DETACHABLE STANDARD
SCALE 1:10



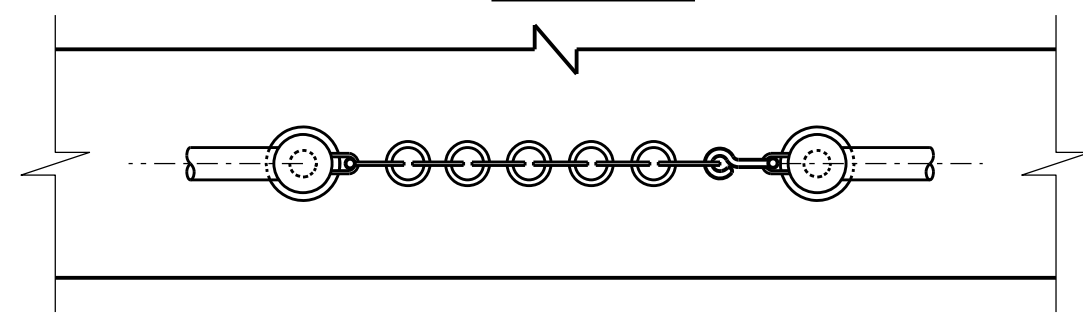
PLAN B - B SIDE ELEVATION B - B

DETAIL OF BASE OF STANDARD (VERTICAL MOUNTING)

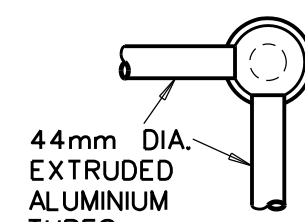
SCALE 1:2

OPENING FOR ACCESS

SCALE 1:10

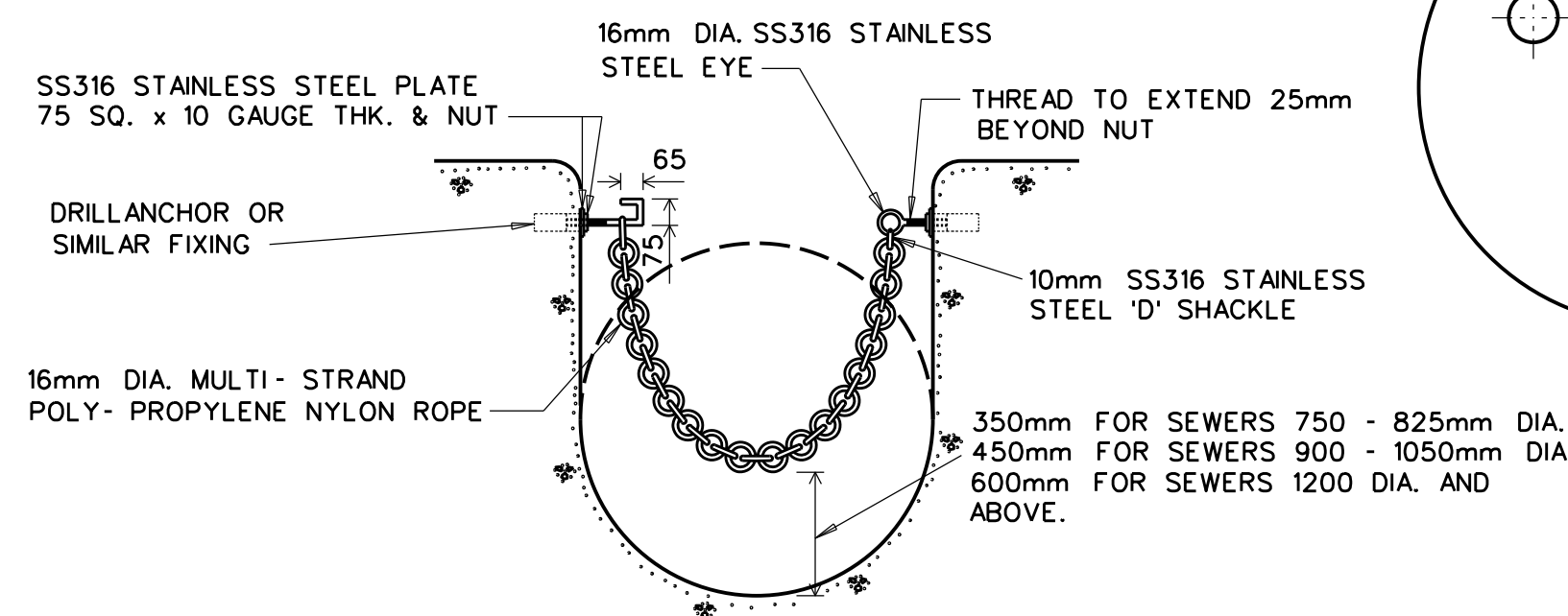


SIDE ELEVATION



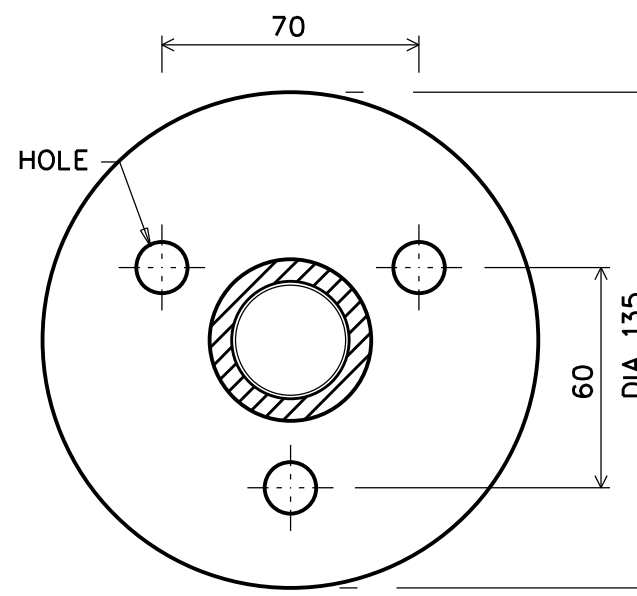
PLAN F - F

14mm DIA. BOLT HOLE

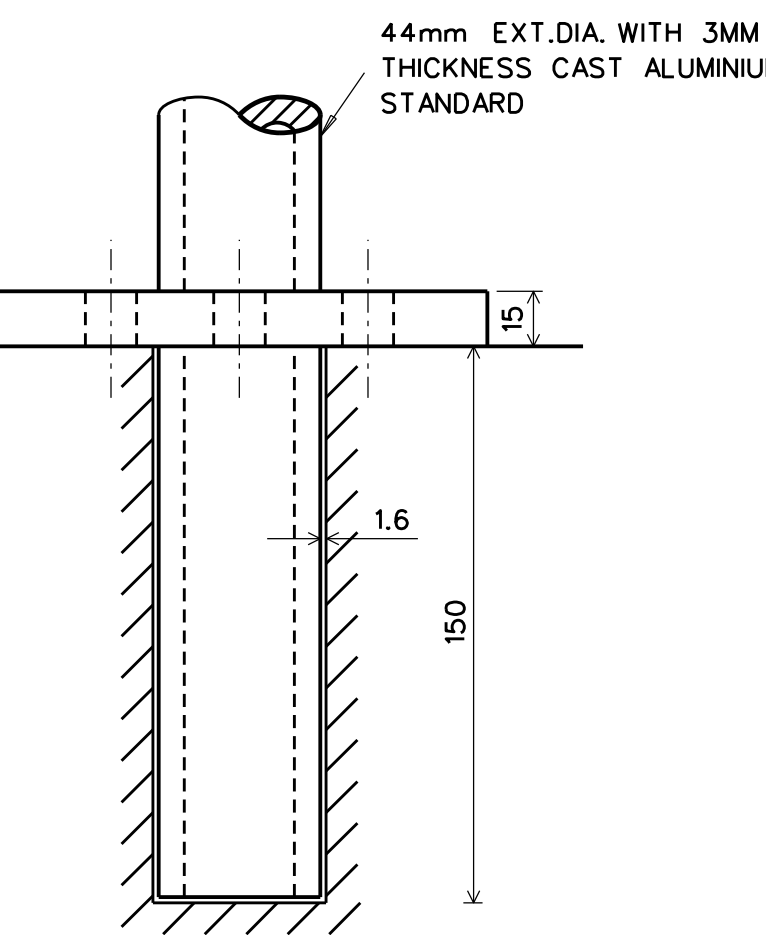


ARRANGEMENT OF SAFETY CHAIN FOR MAIN SEWER IN MANHOLE

SCALE 1:20



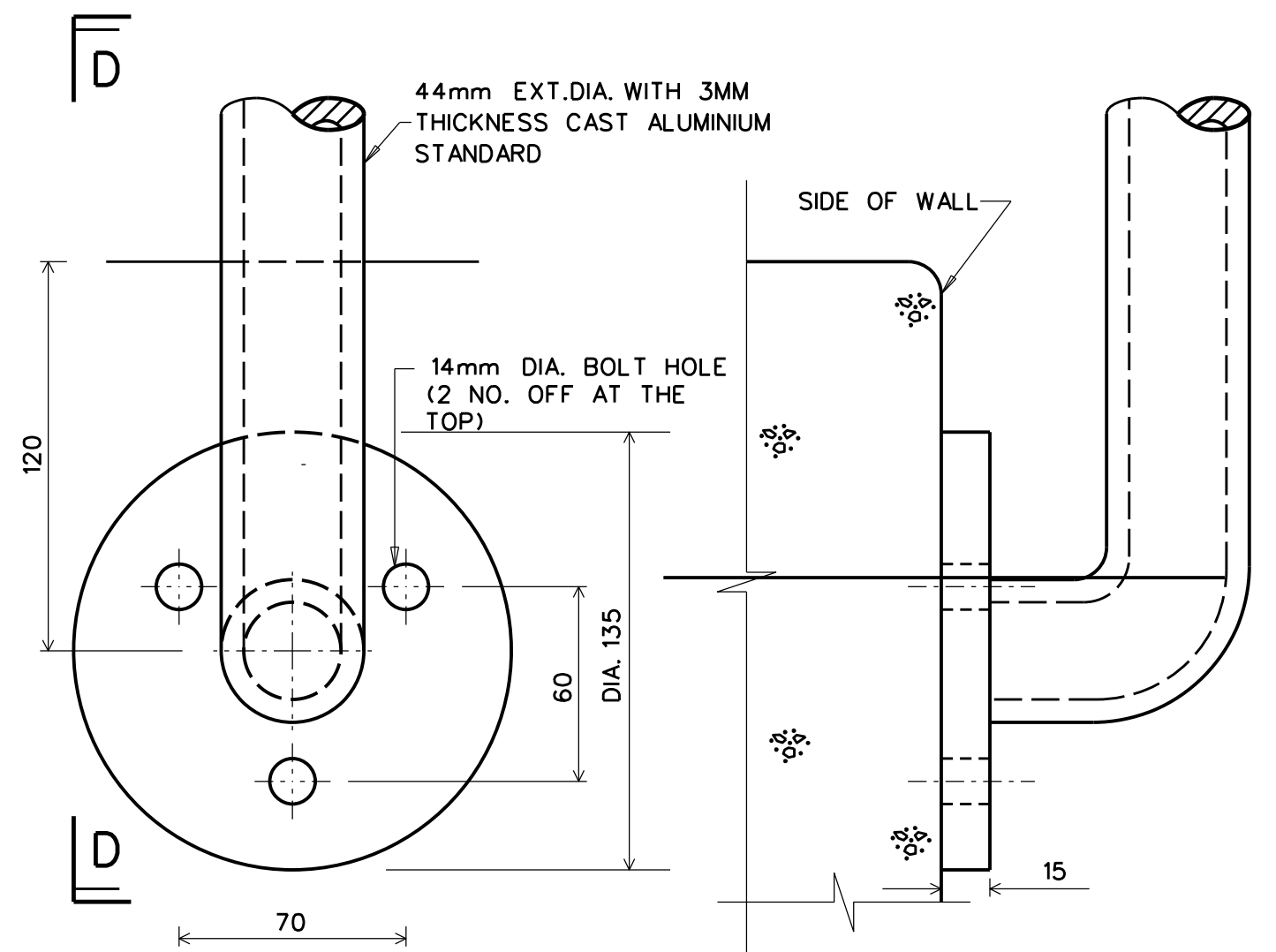
PLAN E - E



SIDE ELEVATION E - E

DETAIL OF BASE OF DETACHABLE STANDARD

SCALE 1:2

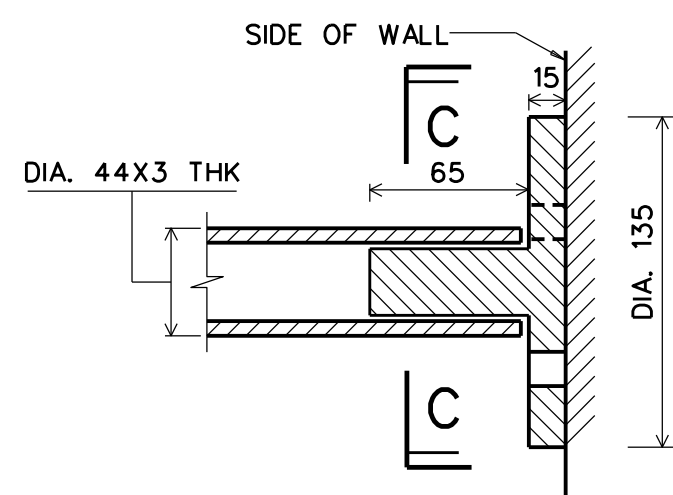


FRONT ELEVATION SIDE ELEVATION D - D

DETAIL OF BASE OF STANDARD (SIDE MOUNTING)

SCALE 1:2

PLAN A - A

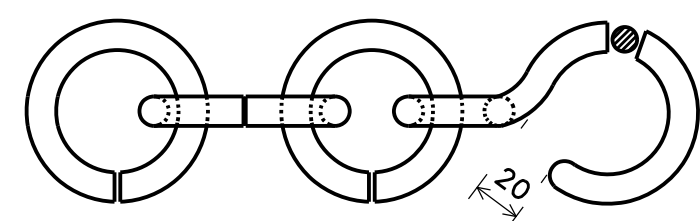


SECTION C - C

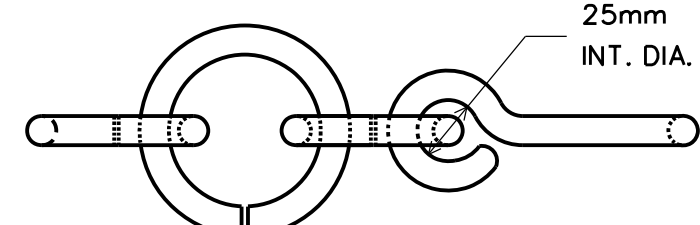
ELEVATION C - C

DETAIL OF BRACKET (WALL ATTACHMENT)

SCALE 1:3



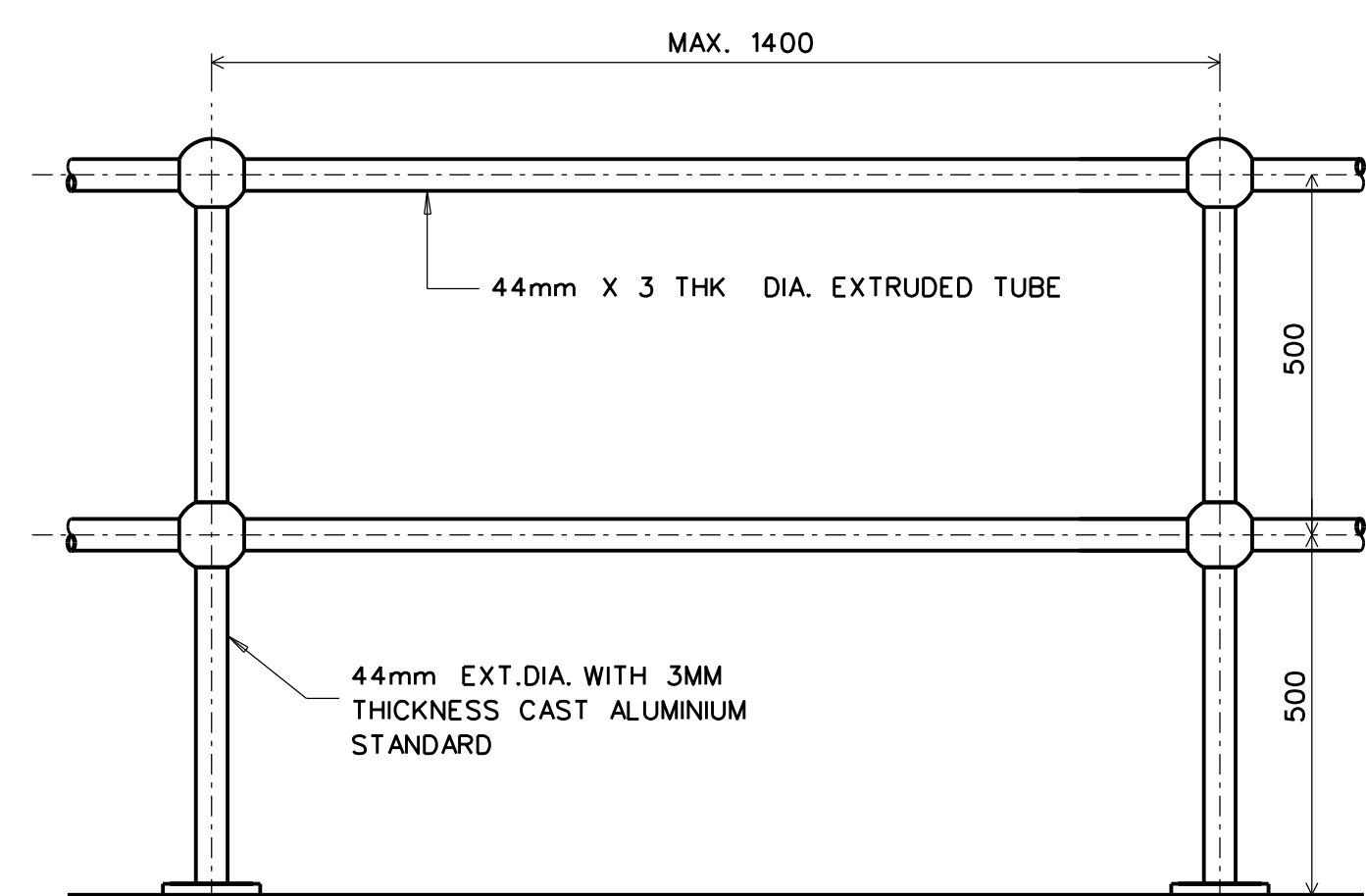
FRONT ELEVATION



PLAN

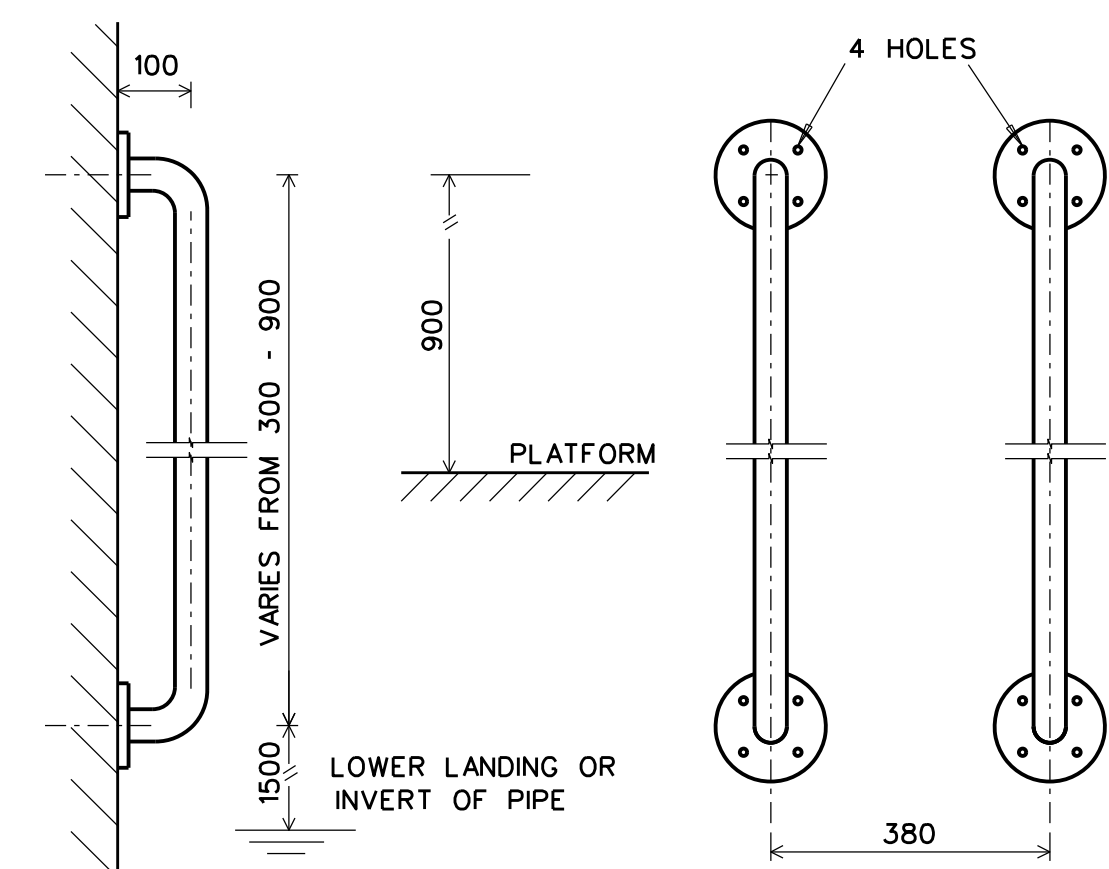
DETAIL OF 50mm INT. DIA. RING AND HOOK

SCALE 1:3



TYPICAL HANDRAIL ARRANGEMENT

SCALE 1:10



SIDE ELEVATION

FRONT ELEVATION

DETAIL OF HANDHOLD

SCALE 1:10

NOTES :-

1. THE ALUMINIUM ALLOY SHALL BE 6082. THE FORM OF MATERIAL FOR THE RAILS SHALL BE TO EN 573, AND FOR THE STANDARDS SHALL BE TO EN 755.
2. WELDS TO BE OF A STRUCTURAL TYPE MADE BY APPROVED WELDING TECHNIQUE TO GIVE SOUND, STRONG WELDS WITH A MINIMUM DIMENSION NOT LESS THAN THE THICKNESS OF THE JOINING MEMBERS.
3. FIXING TO HANDRAILS TO BE MADE WITH ALUMINIUM ALLOY RAGBOLTS, BOLTS AND NUTS.
4. ALUMINIUM SURFACE IN CONNECTION WITH CONCRETE SHALL HAVE AT LEAST TWO COATINGS OF HEAVY-DUTY BITUMINOUS PAINT OR OTHER SEPARATING MATERIAL.
5. DIAMETER OF SS316 STAINLESS STEEL RAGBOLTS TO BE 13MM. THE RAGBOLT SHOULD BE EMBEDDED SUCH THAT THE SHANK PROTRUDES NOT MORE THAN TWO THREADS BEYOND THE HEAD OF THE NUT. RUBBER SEPARATOR SHALL BE PLACED BETWEEN THE BOLT AND THE ALUMINIUM BASE PLATE.
6. CONNECTION DETAILS
 - a) FILLET WELD ALL AROUND BETWEEN FENCE POST AND BASE PLATE.
 - b) FILLET WELD ALL AROUND BETWEEN JOINING BALL AND FENCE POST, TOP AND BOTTOM.
 - c) RIVETED CONNECTION TO HORIZONTAL GUARDRAIL.
7. ALUMINIUM ALLOY HANDRAIL & SAFETY CHAIN ARE TO BE ANODISED ON BOTH THE INSIDE AND THE OUTSIDE OF THE MEMBER. MINIMUM THICKNESS OF THE ANODIC OXIDE LAYER SHALL BE 20µm.

AMENDMENTS	
1)	THICKNESS OF MEMBERS ADDED.
2)	VERTICAL MOUNTING STANDARD'S BASE DIMENSION REVISED.
3)	WALL BRACKET DIMENSION REVISED.
4)	STAINLESS STEEL GRADE ADDED.
5)	STAINLESS STEEL SAFETY CHAIN REMOVED.
6)	BASE OF DETACHABLE STANDARD DIMENSION REVISED.
7)	BASE OF STANDARD (SIDE MOUNTING) DIMENSION REVISED.
8)	NOTE REVISED.

SCALES
AS SHOWN
(A1)

DETAILS OF ANODISED ALUMINIUM ALLOY HANDRAIL AND SAFETY CHAIN