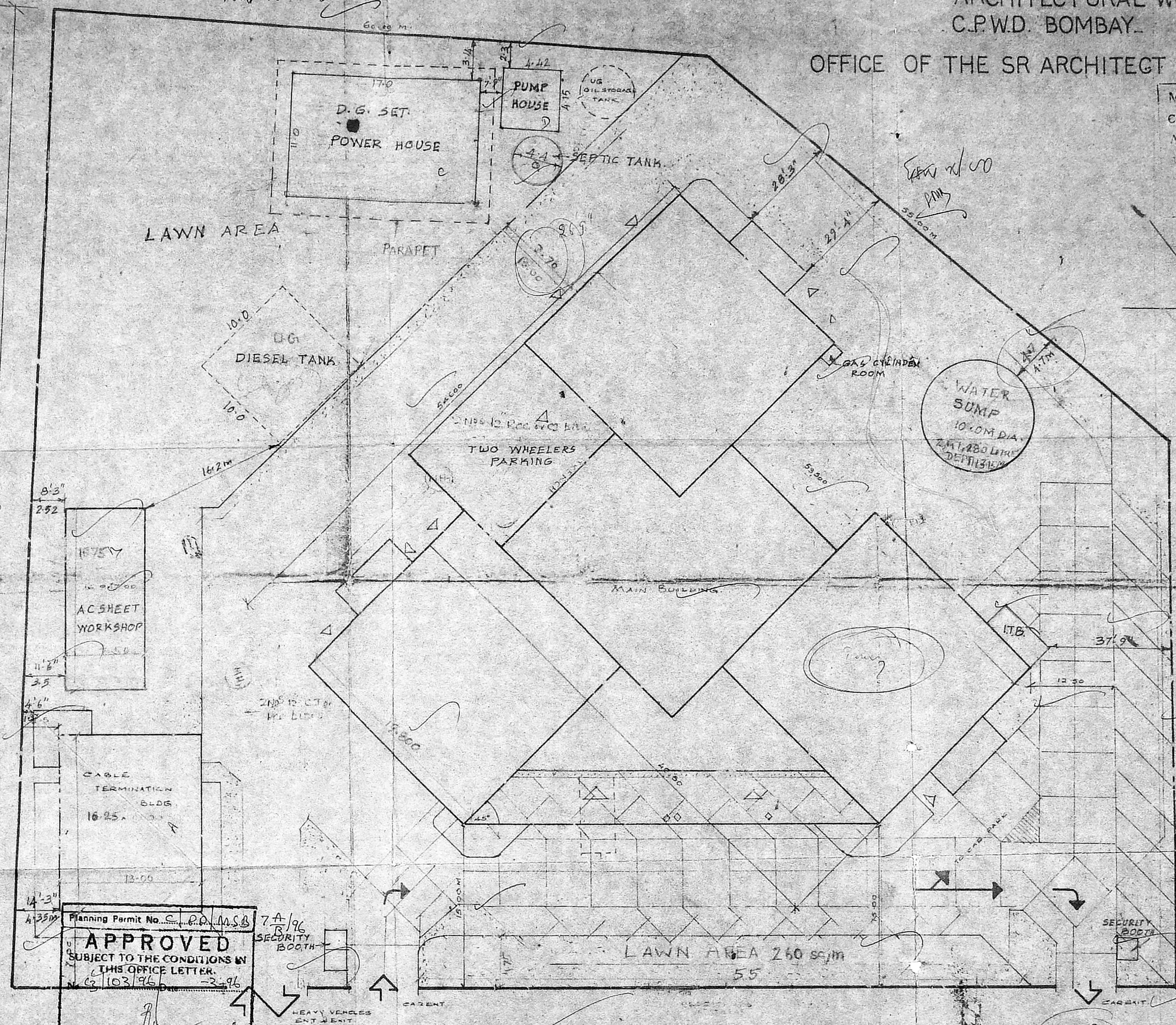


MMDA C3/PP NO. 1
C. No. C3/22506/93
Date: 10/3/94



Planning Permit No. C.P.D. (MSB) 7A/96
APPROVED
SUBJECT TO THE CONDITIONS IN
THIS OFFICE LETTER.
C3/103/96 -3-96
FOR MEMBER SECRETARY
MADRAS METROPOLITAN
DEVELOPMENT AUTHORITY
MADRAS 600 008.

DRG. NO.
SA 11 / 766
SCALE: 1:250

ADAMS ROAD

OVERSEAS COMMUNICATIONS
SERVICE BUILDING AT MADRAS.

(CTB) VSI3 duct LAY-OUT PLAN

Handwritten notes:
27 EC 200
8/10/88

M. RETHINA
EXECUTIVE
TELECOM CIVIL DIVISION No. III
MADRAS - 600 014

TABLE SHOWING STRUCTURAL SECTIONS AND BOLT CONNECTIONS

MMDA C-3/PP No. 1
C. No. 03/22501/93

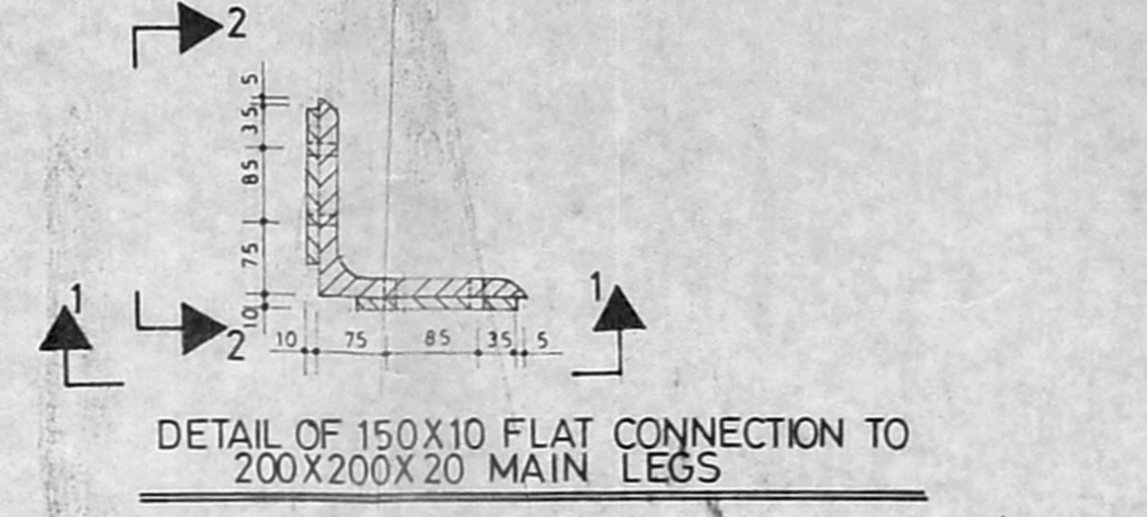
PANEL	NO	MAIN LEGS (a)				CROSS MEMBERS IN ELEVATION (b)				HORIZONTAL PERIPHERAL MEMBERS (c)				HORIZONTAL SEC. MEMBERS IN ELVA (d)				CROSS MEMBERS IN PLAN (e)					
		SECTIONS (1 SA)		BOLT CONNECTION ONLY FOR SPACING		SECTIONS (1 SA)		BOLT CONNECTION		SECTIONS (1 SA)		BOLT CONNECTION		SECTIONS (1 SA)		BOLT CONNECTION		SECTIONS (1 SA)		BOLT CONNECTION			
		GRADE	DIA	Nos	GRADE	DIA	Nos	GRADE	DIA	Nos	GRADE	DIA	Nos	GRADE	DIA	Nos	GRADE	DIA	Nos	GRADE	DIA	Nos	
	I	90X90X6	4-6	16	4	75X75X6	4-6	16	2	50X50X5	4-6	16	2	45X45X5	4-6	12	1	45X45X5	4-6	12	1		
	II	90X90X6	4-6	16	4	75X75X6	4-6	16	2	50X50X5	4-6	16	2	45X45X5	4-6	12	1	45X45X5	4-6	12	1		
	III	110X110X10	10-9	20	4	75X75X6	4-6	16	2	50X50X5	4-6	16	2	45X45X5	4-6	12	1	45X45X5	4-6	12	1		
	IV	110X110X10	10-9	20	4	75X75X6	4-6	16	3	65X65X6	4-6	16	2	45X45X5	4-6	12	1	45X45X5	4-6	12	1		
	V	150X150X16	10-9	20	6	75X75X6	4-6	16	3	65X65X6	4-6	16	2	45X45X5	4-6	12	1	45X45X5	4-6	12	1		
	VI	150X150X16	10-9	20	6	90X90X6	4-6	16	3	75X75X6	4-6	16	2	45X45X5	4-6	12	1	45X45X5	4-6	12	1		
	VII	150X150X16	10-9	20	10	90X90X6	4-6	16	3	90X90X6	4-6	16	3	45X45X5	4-6	12	1	45X45X5	4-6	12	1		
	VIII	150X150X20	10-9	20	10	90X90X6	4-6	16	3	90X90X6	4-6	16	3	45X45X5	4-6	12	1	50X50X5	4-6	12	1		
	IX	200X200X20	10-9	20	12	90X90X6	4-6	16	3	65X65X6	4-6	16	2	45X45X5	4-6	12	1	50X50X5	4-6	12	1		
	X	200X200X20	10-9	20	12	90X90X6	4-6	16	3	65X65X6	4-6	16	2	45X45X5	4-6	12	1	50X50X5	4-6	16	1		
	XI	200X200X20	10-9	20	14	90X90X6	4-6	16	3	65X65X6	4-6	16	2	45X45X5	4-6	12	1	50X50X5	4-6	16	1		
	XII	200X200X20	10-9	20	14	90X90X6	4-6	16	3	75X75X6	4-6	16	2	45X45X5	4-6	12	1	50X50X5	4-6	16	1		
	XIII	200X200X20	10-9	20	16	90X90X6	4-6	16	3	75X75X6	4-6	16	2	45X45X5	4-6	12	1	50X50X5	4-6	16	1		
	XIV	200X200X20	10-9	20	16	90X90X6	4-6	16	3	90X90X6	4-6	16	2	45X45X5	4-6	12	1	50X50X5	4-6	16	1		

(* INDICATES THAT 2 Nos-FLATS ONE EACH OF 150/10 ON EACH FACE OF ANGLE IS TO BE WELDED BY 4mm WELD IN CONTINUOUS RUN OR TO BE BOLTED AS PER DESIGN)

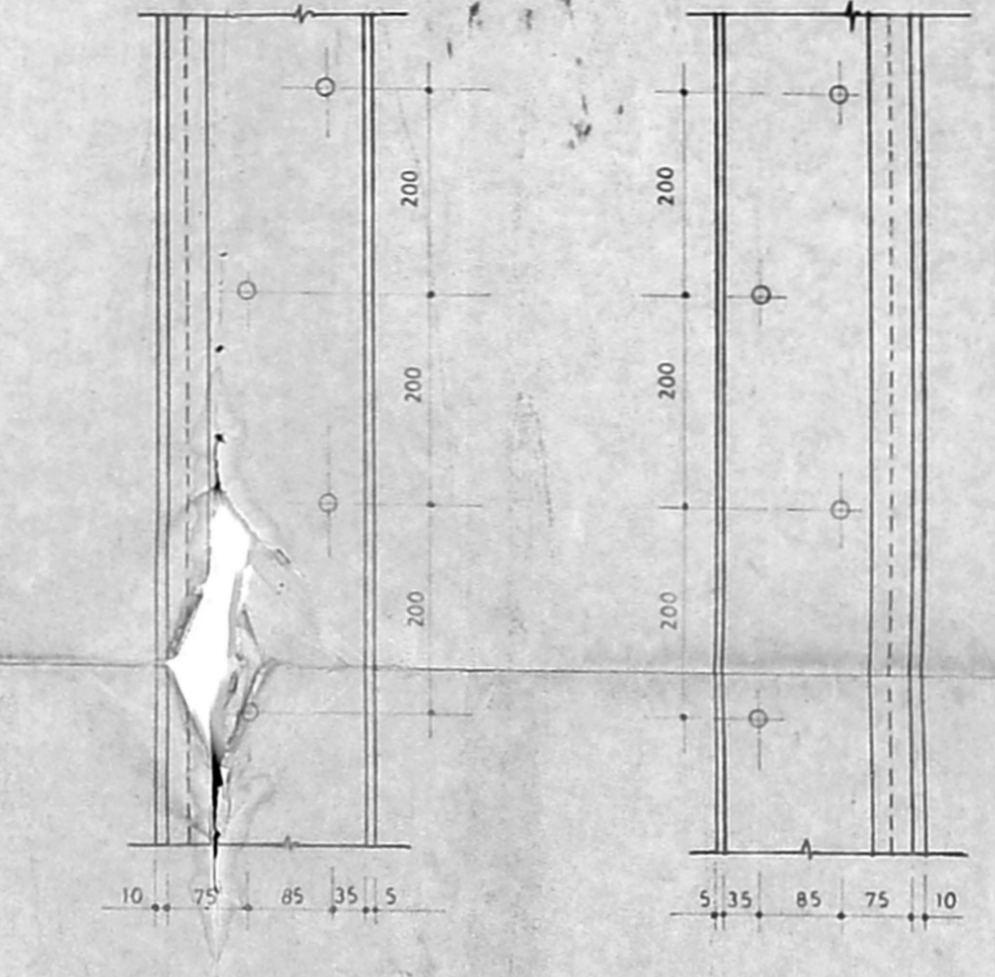
FORCES ON THE TOP OF THE BUILDING

JOINT	LOAD CASE	FORCE-X	FORCE-Y	FORCE-Z
1	1 WIND IN X DIRECTION	7.77	65.91	0.23
	2 WIND IN -X	-12.34	-81.36	-4.79
	3 WIND IN XZ DIAGONAL	7.75	107.24	7.75
	4 WIND IN -XZ DIAGONAL	-12.32	-122.69	-12.32
2	1 WIND IN X DIRECTION	7.77	65.91	-0.23
	2 WIND IN -X	-12.34	-81.36	4.79
	3 WIND IN XZ DIAGONAL	3.75	-8.14	8.31
	4 WIND IN -XZ DIAGONAL	-8.31	-7.30	-3.75
3	1 WIND IN X DIRECTION	12.34	-82.16	4.79
	2 WIND IN -X	-7.77	66.71	-0.23
	3 WIND IN XZ DIAGONAL	12.32	-123.45	12.32
	4 WIND IN -XZ DIAGONAL	-7.75	108.00	-7.75
4	1 WIND IN X DIRECTION	12.34	-82.16	-4.79
	2 WIND IN -X	-7.77	66.71	0.23
	3 WIND IN XZ DIAGONAL	8.31	-8.14	3.75
	4 WIND IN -XZ DIAGONAL	-3.75	-7.30	-8.31

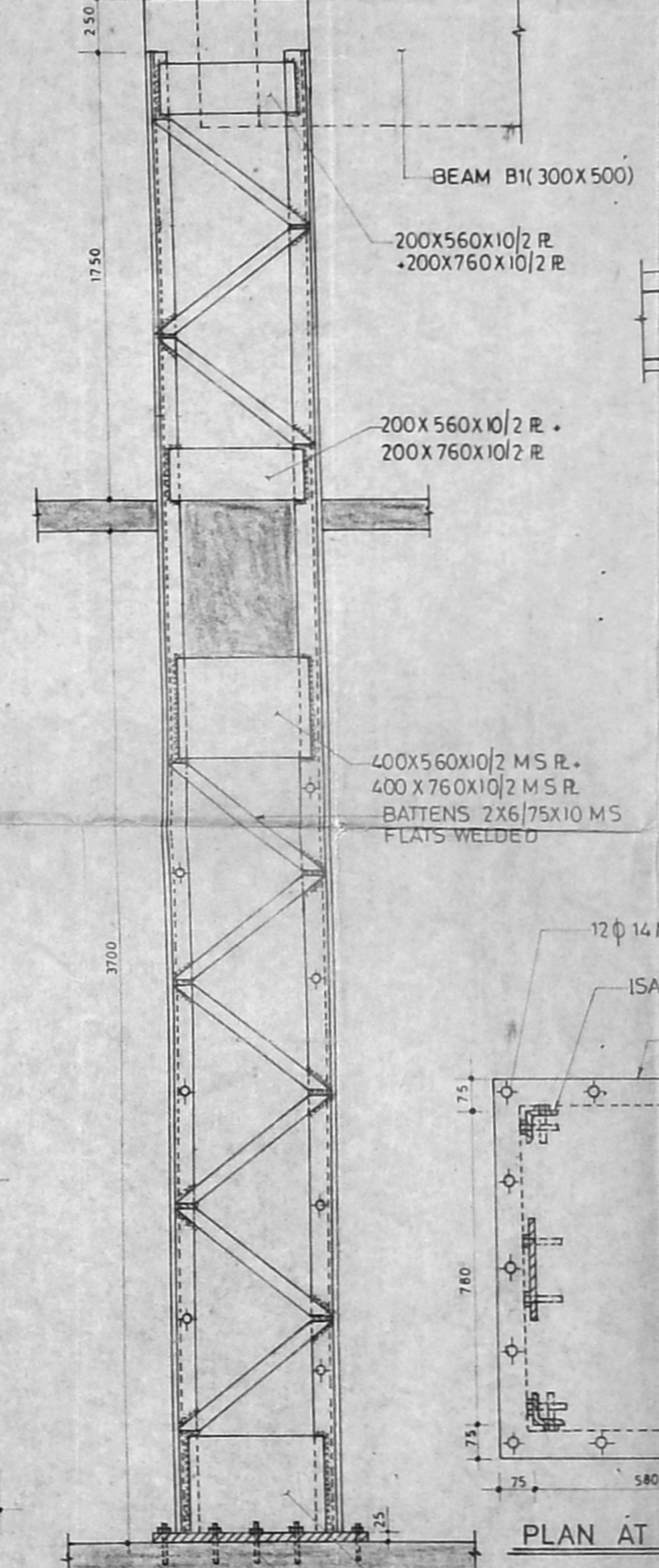
(THESE FORCES ARE ACTING ON THE TOP OF THE BUILDING AND THE BUILDING HAS TO BE CHECKED FOR THE FORCES-THE FORCES GIVEN ARE IN TONNES)



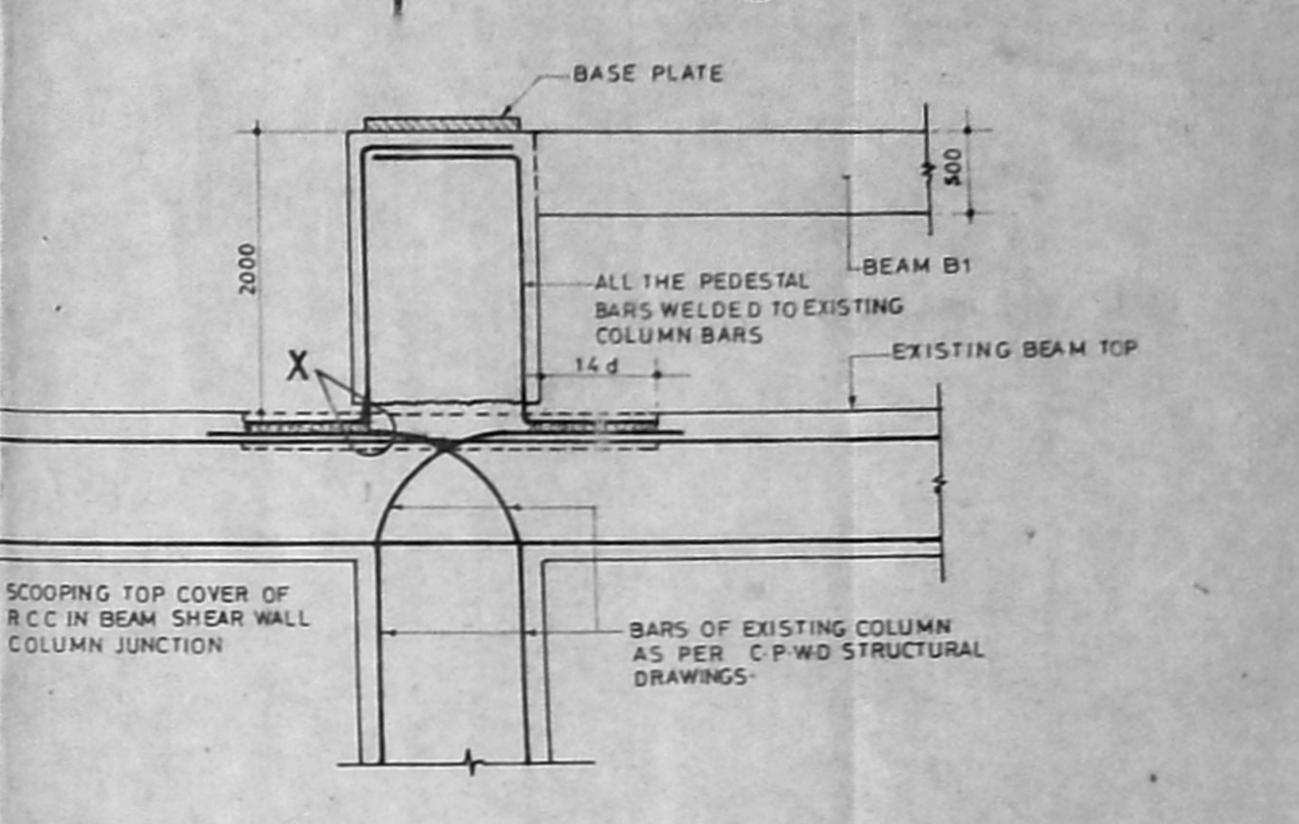
DETAIL OF 150X10 FLAT CONNECTION TO 200X200X20 MAIN LEGS



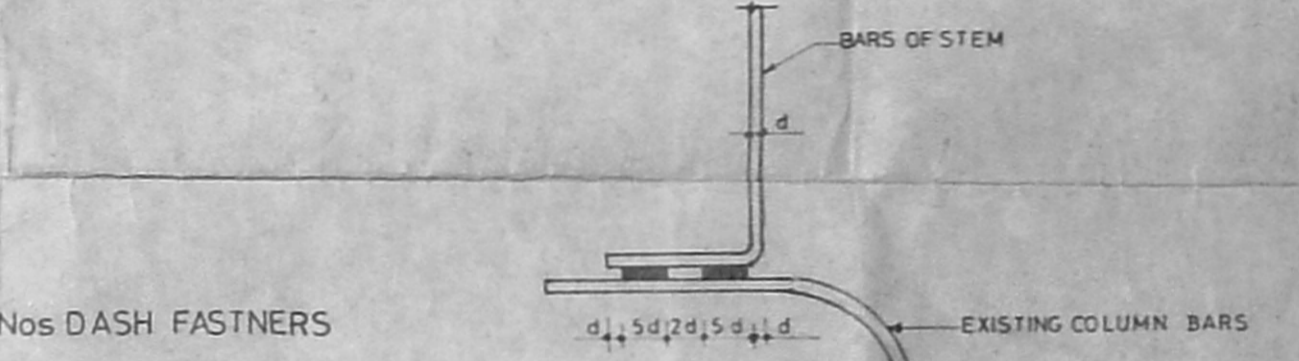
ELEVATION-1-1 (ALL BOLTS 16 Ø 4.6 GRADE) ELEVATION-2-2 (ALL BOLTS 16 Ø 4.6 GRADE)



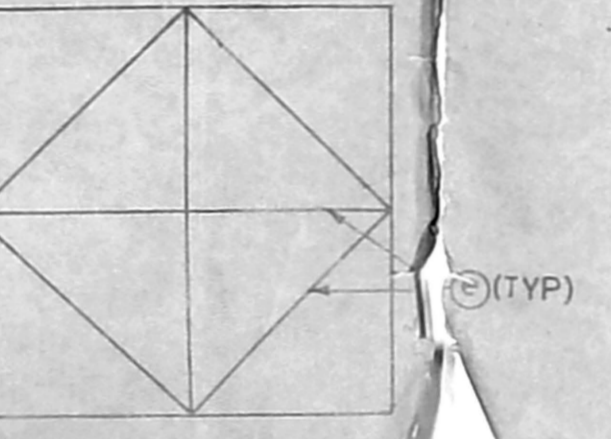
ELEVATION



THE JOINTING ARRANGEMENT OF STEMS WITH EXISTING BUILDING



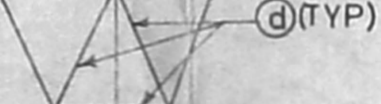
DETAIL-X



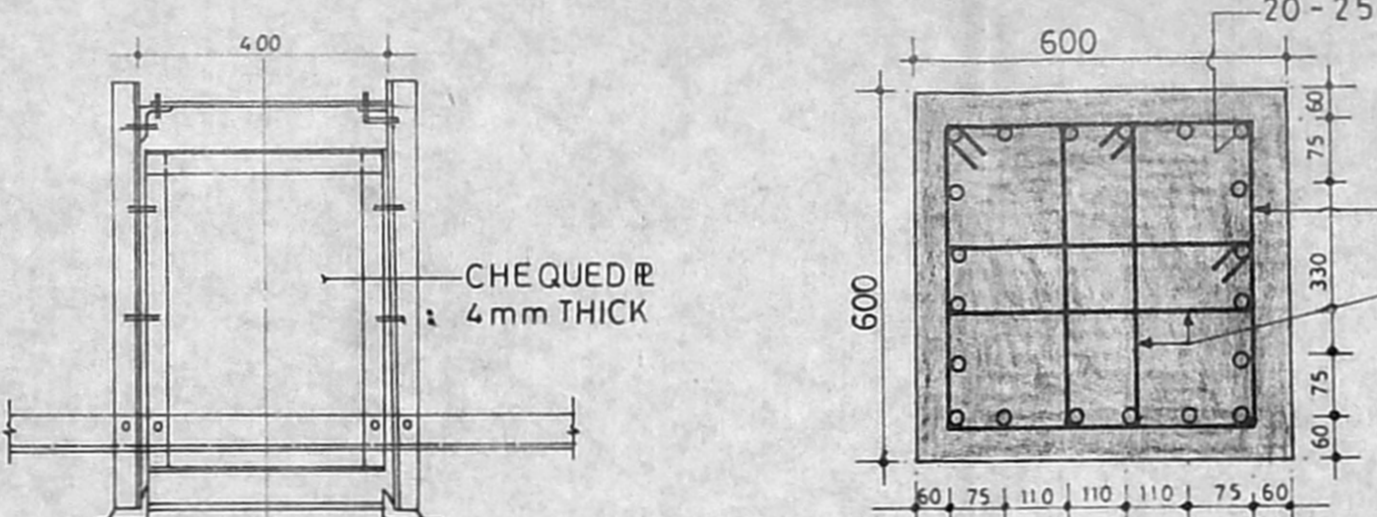
SECTION-B-B



SECTION-A-A

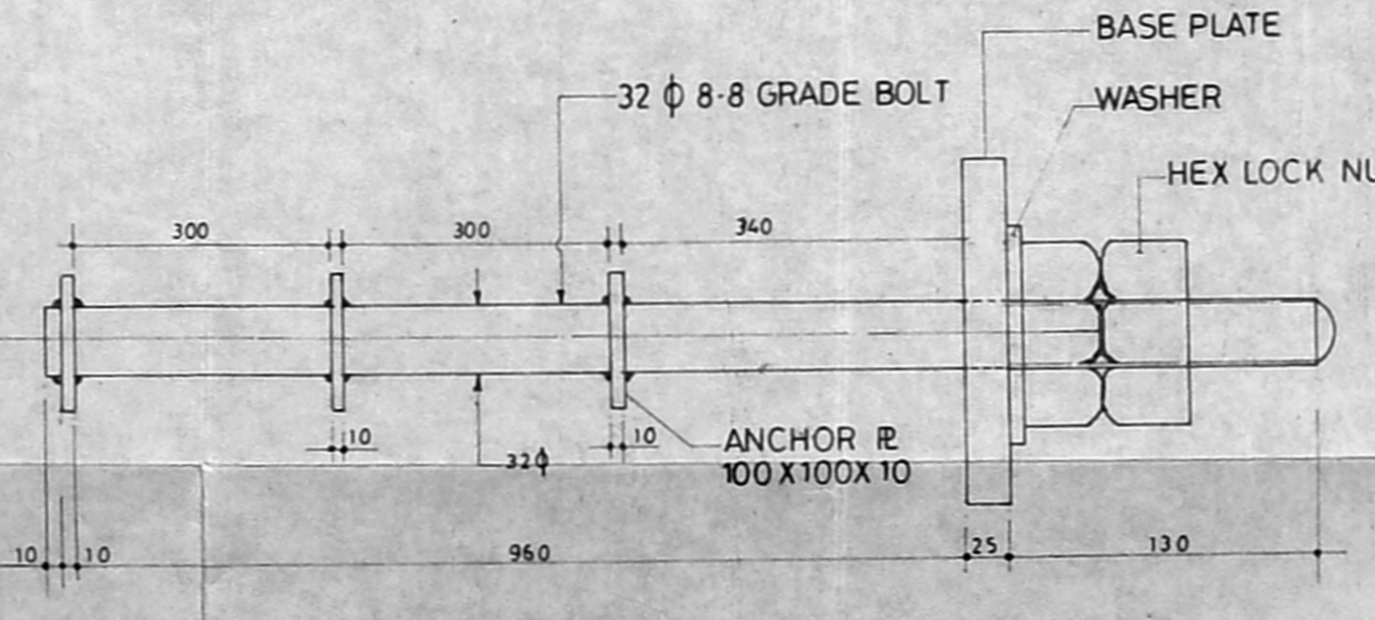


SECTION-E-E

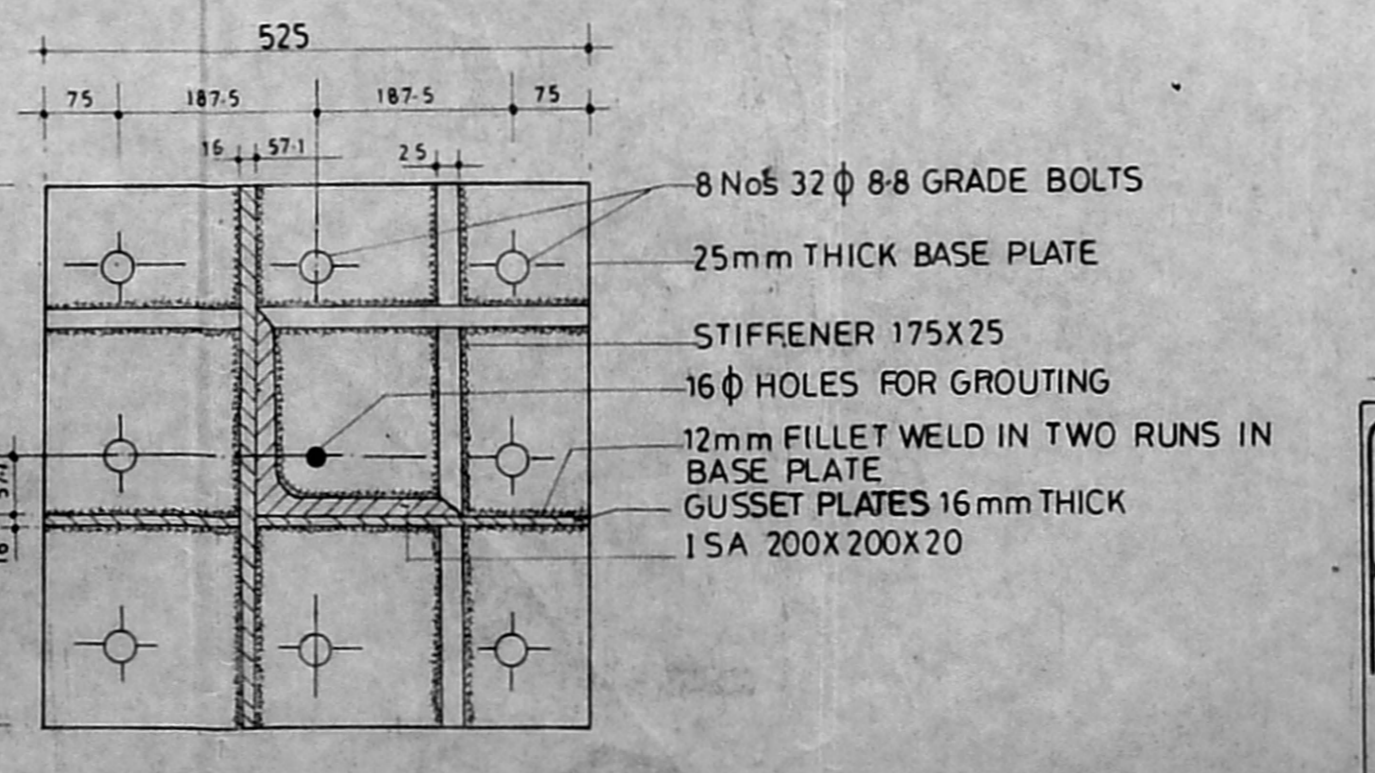


PEDESTAL DETAIL

TYP-DETAIL OF LADDER AND WAVE GUIDE RACK

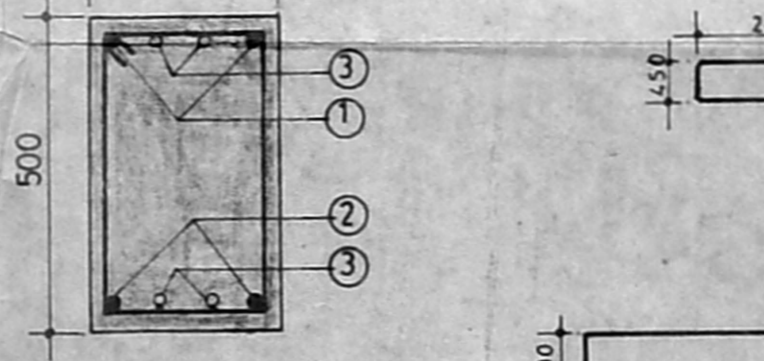


DETAIL OF ANCHOR BOLTS

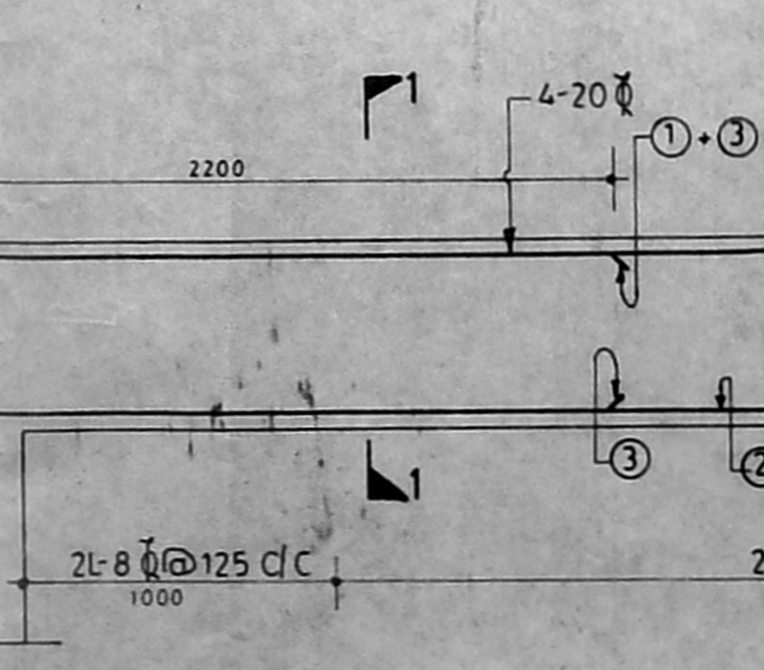


BASE PLATE DETAIL

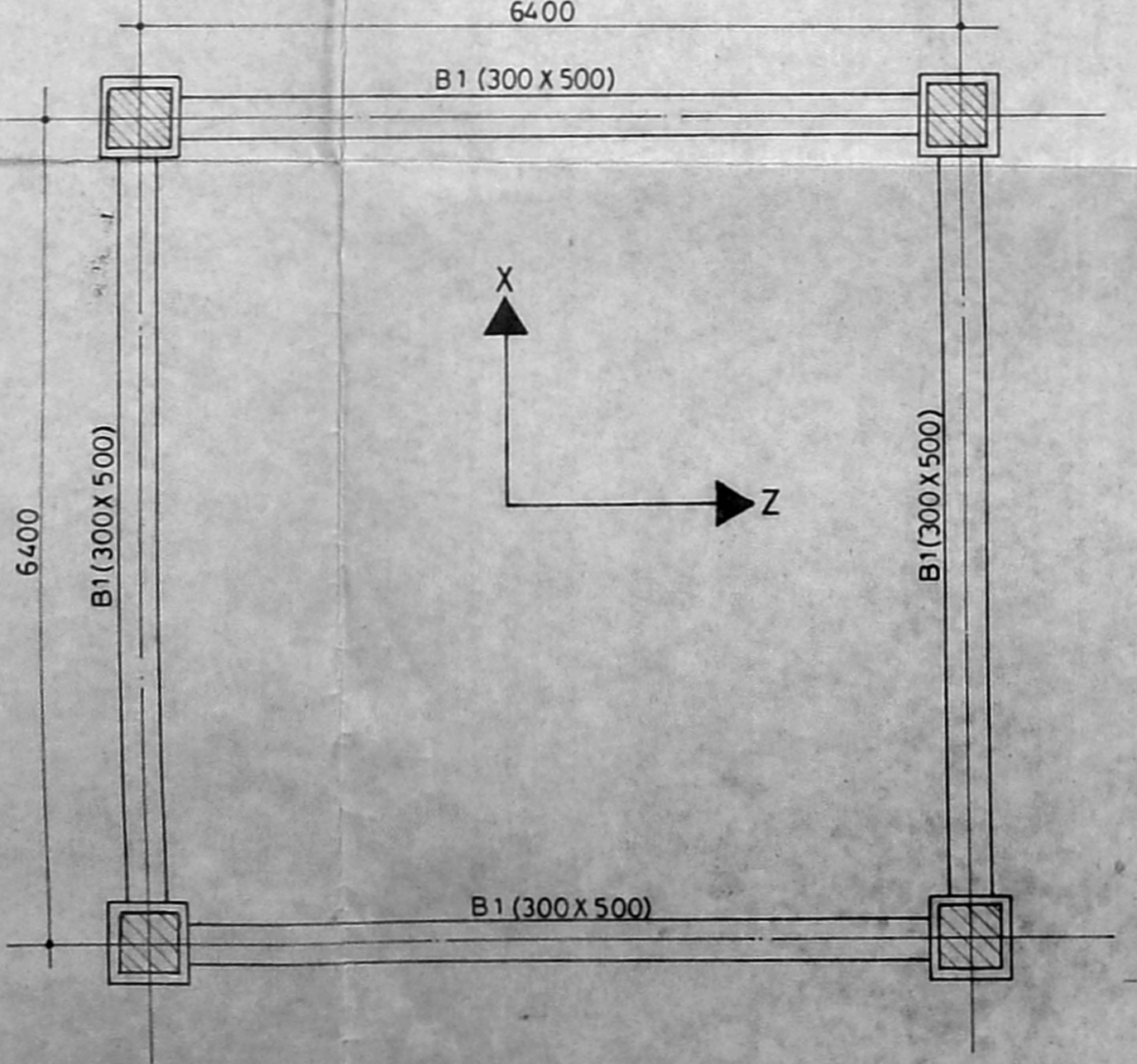
SECTIONAL PLAN



SECTION-1-1



BEAM B1 (300X500)



PLAN OF TOWER SUPPORTING SYSTEM

PROPOSED 42M HIGH TOWER ON TOP OF V S NL BUILDING (REVISED)

- NOTES
1. ALL DIMENSION ARE IN mm
 2. CONCRETE WILL BE OF M20 GRADE
 3. REINFORCEMENT WILL BE OF FY 415
 4. ALL STRUCTURAL STEEL ROLLED SECTIONS AND PLATES SHALL CONFORM TO IS-226-1975 OR 2062 1980 (GRADE-A)
 5. WELDING SHALL CONFORM TO IS-816-1969
 6. ALL 'M'S BLOCK BOLTS AND NUTS SHALL CONFORM TO IS-1363 (PART 1 TO 3) 1984
 7. WELDING SYMBOLS ARE AS PER IS-813-1961
 8. ALL STRUCTURAL STEEL WORK AS PER IS-800-1984
 9. POSITIVE 'Y' AND 'Z' DIRECTIONS ARE SHOWN IN PLAN
 10. POSITIVE 'Y' DIRECTIONS IS UPWARDS
 11. CLEAR COVER FOR BEAMS ARE 40mm AND FOR PEDESTALS 50mm
 12. REST PLATE FORM AT 12m.
 13. TOP PLATE FORM
 14. WORKING PLATE FORM AT 21m, 33m AND 39m AT LOCATION WHERE ANTENNAE WILL BE FIXED.
 15. THIS DRAWING IS FOR 4 Nos. 3.7 ME DIA SOLID DISH PARABOLIC ANTENNAE WITHOUT RADOME FOR DESIGN WIND SPEED OF 50.0 ME/SEC ON TOP OF VSB MADRAS.

R NO	DATE	DESCRIPTION	SIGN
R 1	22-10-83	TOTAL DESIGN MODIFIED DUE TO CHANGE IN ANTENNAE	
R 0	14-8-93	ISSUED FOR APPROVAL OF V S NL	

REVISION NOTES

DRG NO: KKAA/VSNL/42MT/MS/01A

42M HIGH TOWER

CLIENT: VIDESH SANCHAR NIGAM LTD
VIDESH SANCHAR BHAVAN
5, SWAMI SIVANANDA SALAI
MADRAS-600002

STRUCTURAL CONSULTANT: K K AGRAWAL & ASSOCIATES PVT.LTD
193 R P S FLATS
SHEIKH SARAI PART-I
NEW DELHI-110017

SCALE	DESIGN	REVISION NO
1:75		
DATE	DEALT	
12-8-93	Joy Joseph	