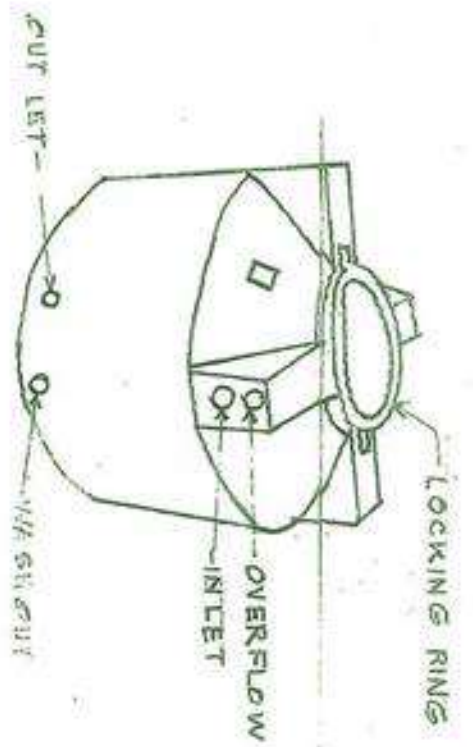
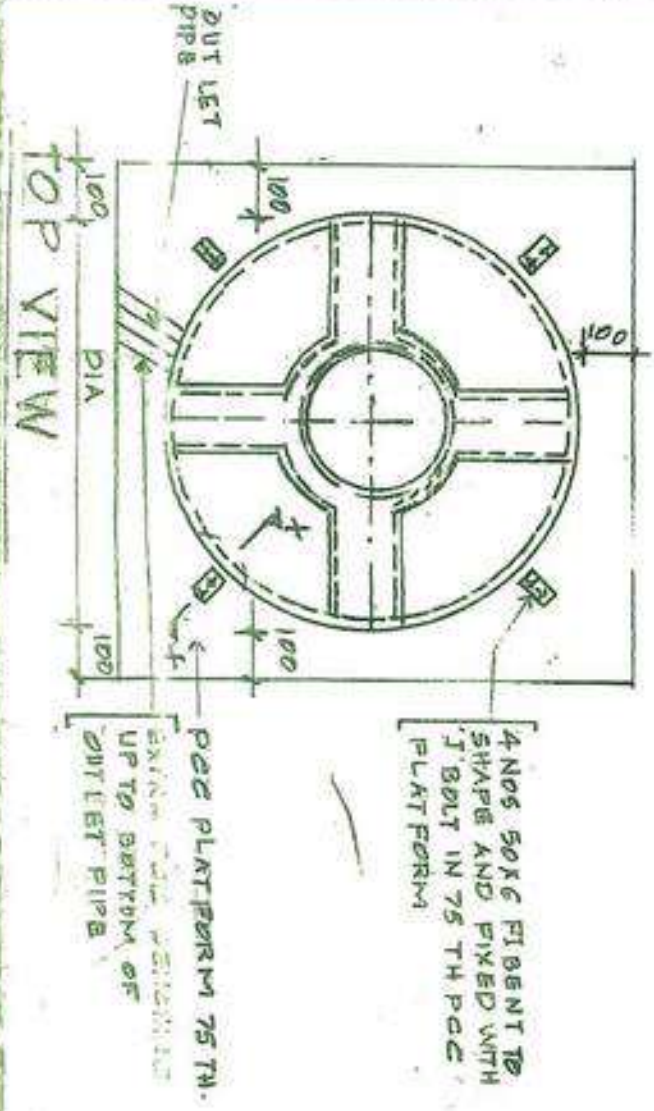
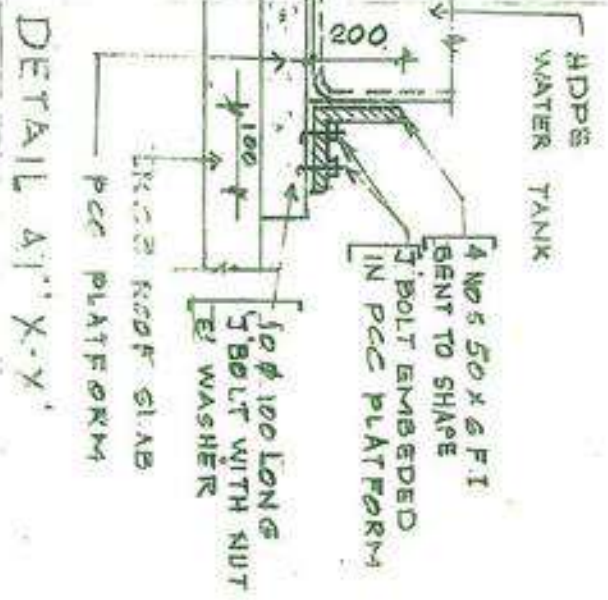
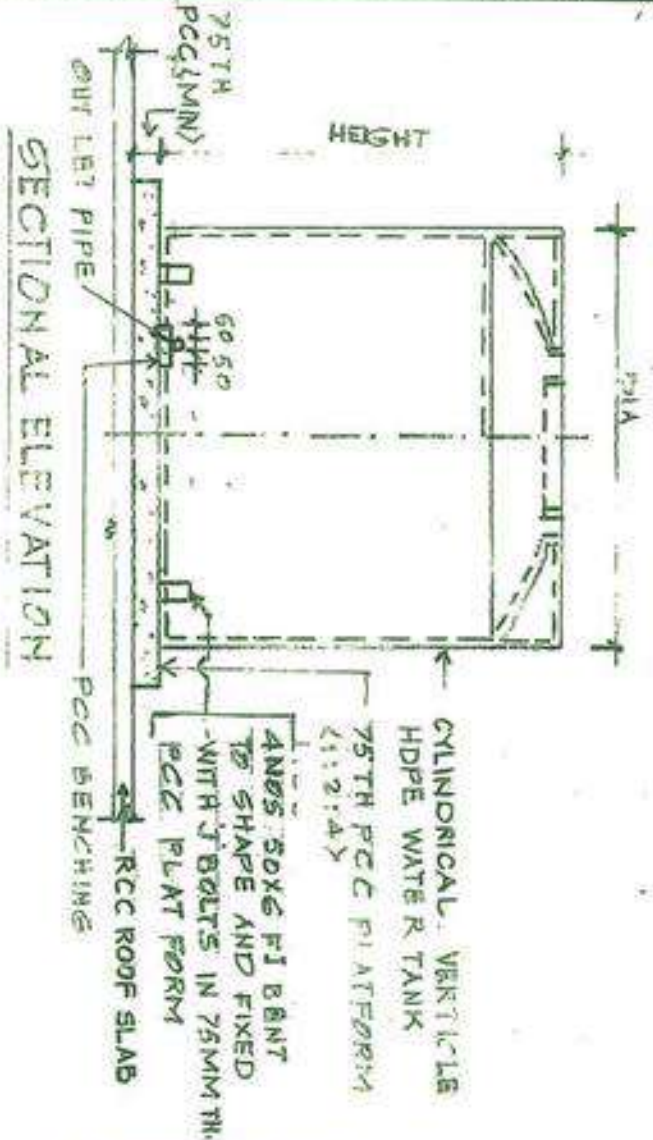


DIMENSIONS OF CYLINDRICAL VERTICAL HDPE WATER TANK -



SL. NO.	MINIMUM OVERALL DIAMETER (MM)	OVERALL HEIGHT (MM)	MINIMUM INTERNAL DIAMETER (MM)	MINIMUM WALL THICKNESS (MM)	MINIMUM WEIGHT (KG)
1	200	650-850	400-600	2.65	7.8
2	300	650-850	700-900	2.65	9.0
3	400	700-900	700-950	2.65	15.0
4	500	800-1100	825-1025	3.70	18.0
5	700	900-1100	800-1000	3.70	23.0
6	1000	1000-1200	1050-1350	4.5	33.0



NOTES:

1. CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS BEFORE EXECUTION OF THE WORK.
2. FIGURED DIMENSIONS SHALL BE FOLLOWED.
3. ALL DIMENSIONS ARE GIVEN IN MILLIMETRES.
4. TANKS ARE TO BE ONE PIECE MANUFACTURED AND MANUFACTURED OUT OF LOW DENSITY HDPE WATER TANK.
5. TANKS ARE TO BE CYLINDRICAL SHAPE AND VERTICAL TYPE WITH CLOSED TOP.
6. TANKS ARE TO BE INSTALLED ON A SURFACE WHICH GIVES FULL BEARING TO THE BOTTOM OF TANK.
7. TANK SHALL BE PROVIDED WITH CHECK NUT ADAPTER SYSTEM OF 60 FOR INLETS & OUTLETS OF SUITABLE SIZES.
8. SUITABLE LOCKING RING ARRANGEMENT IS TO BE PROVIDED TO THE TOP COVER.

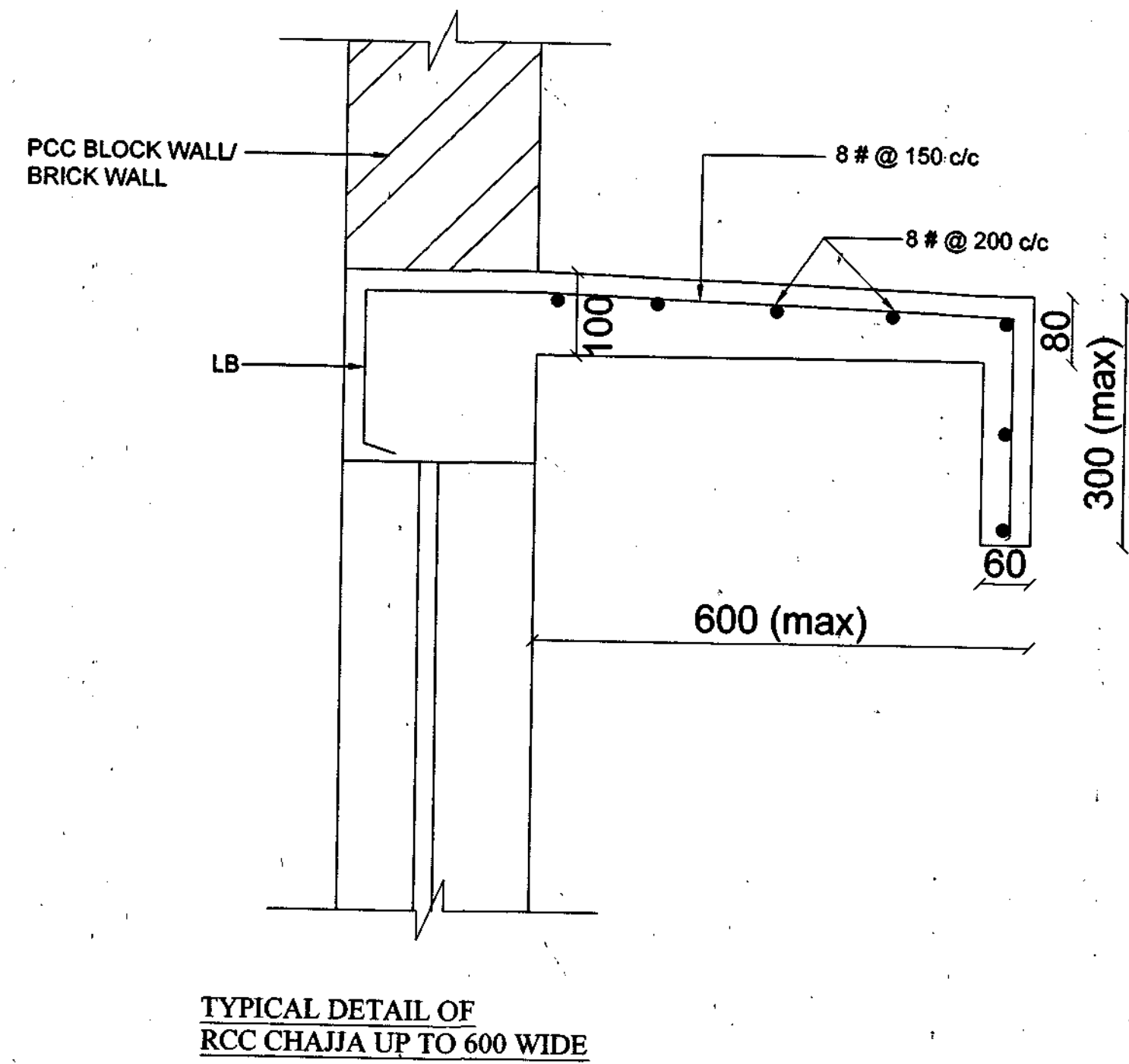
TYPICAL DETAILS OF FIXING HDPE WATER STORAGE TANKS OVER RCC ROOF SLAB

DATE: 13.3.2002	DRN: SSELVAM	DESIGN & CONSULTANCY	AR
DATE: 02.7.04	TECH: VIJAS	PUNE. 411031	
DRG NO: 2002/10/001	SHT NO: 1	SCALE: NOT TO SCALE	

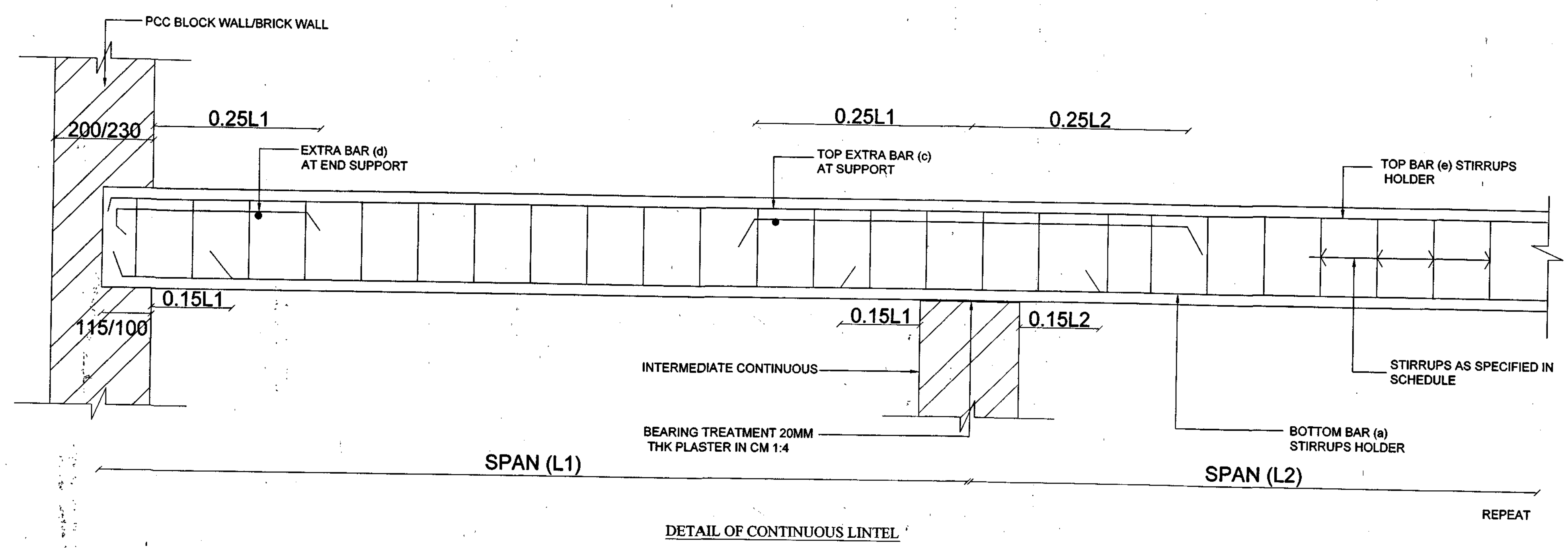
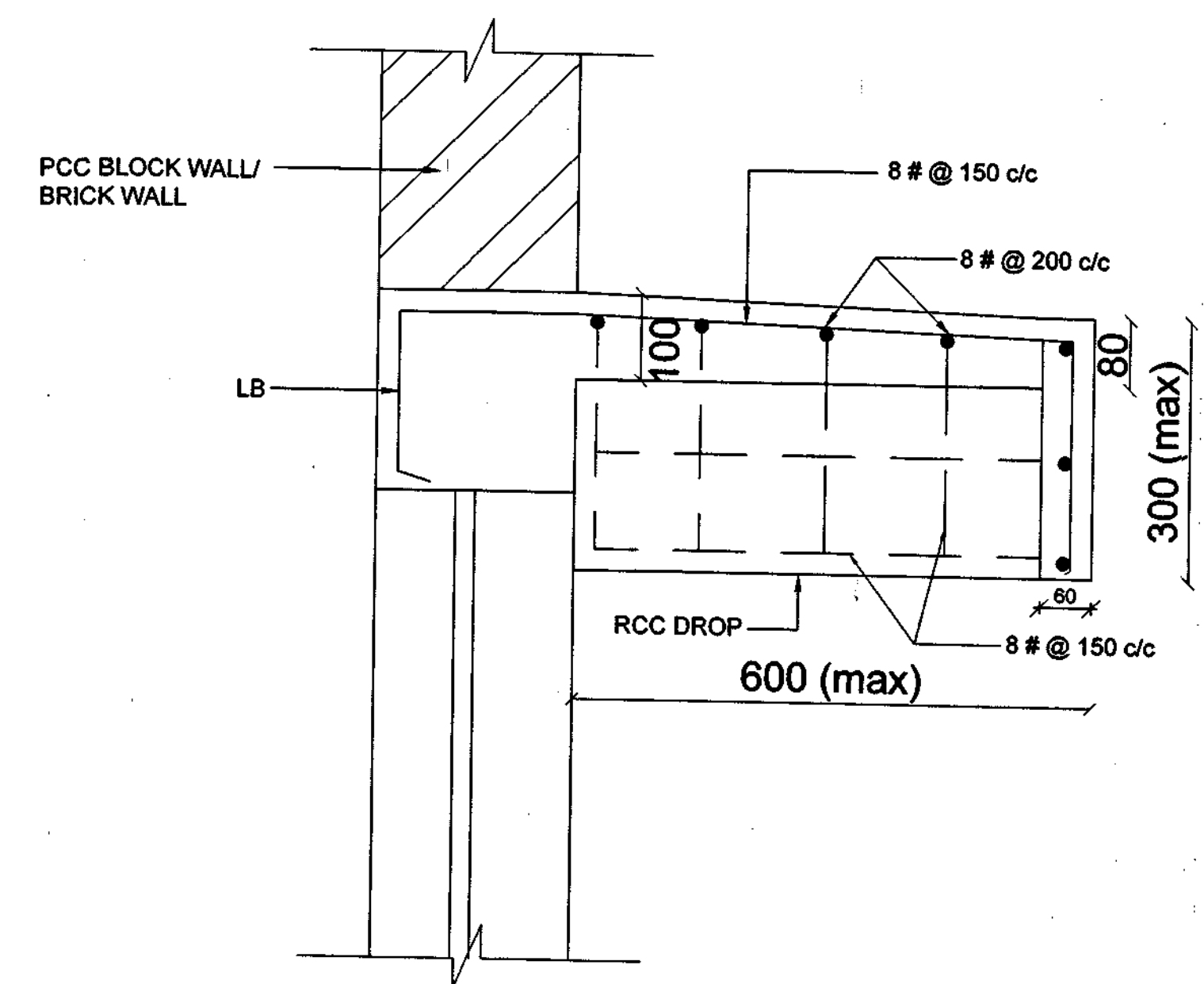
TRUE COPY
THIS DRG IS TRACED IN THE OFFICE OF THE CHIEF JRIIPUR
DATE: 02.7.04.
TECH: VIJAS
COMP: [Signature]
BY DIRECTOR (DESIGN)
[Signature]

sd/ [Signature]
ASST ARCH.
sd/ [Signature]
SENIOR ARCHITECT
[Signature]

SCHEDULE OF RCC LINTELS																			
SER NO	CLEAR SPAN	BEARING	OVERALL SECTION		LONGITUDINAL REINFORCEMENT										STIRRUPS				REMARKS
					BOTTOM BAR (a)		ADDL CKD. UP BAR (b)		TOP EXTRA BAR (c)		EXTRA BAR AT END SUPPORT (d)		TOP BAR (e)		DIA	NO OF LEGS	AT c/c	UP TO	
			NOS	DIA			NOS	DIA			NOS	DIA							
			BREADTH	DEPTH	EQUAL TO THICKNESS OF WALL														
1	UP TO 600	100	150	2	8	-	-	-	-	-	-	2	8	8	2	100	THROUGH OUT		
2	600 TO 1500	150	150	2	10	-	-	-	-	-	-	2	10	8	2	100	THROUGH OUT		
3	1500 TO 2500	200	200	3	10	-	-	1	10	-	-	2	10	8	2	100	THROUGH OUT		
4	2500 TO 3500	250	250	3	12	-	-	1	12	-	-	2	12	8	2	150	THROUGH OUT		
5	3500 TO 4500	250	300	2	16	-	-	-	-	-	-	2	16	8	2	150	THROUGH OUT		
6	4500 TO 5500	250	350	2	16	-	-	1	12	-	-	2	16	8	2	150	THROUGH OUT		
7	5500 TO 6000	300	400	3	16	-	-	1	16	-	-	2	16	8	2	150	THROUGH OUT		



TYPICAL DETAIL OF
RCC CHAJJA UP TO 600 WIDE



SPAN (L1)

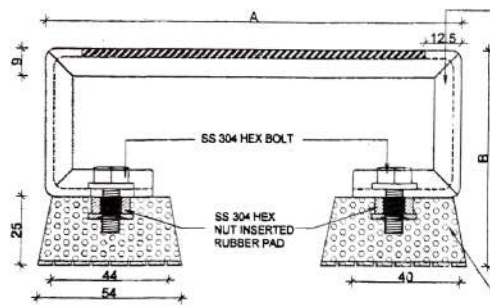
SPAN (L2)

DETAIL OF CONTINUOUS LINTEL

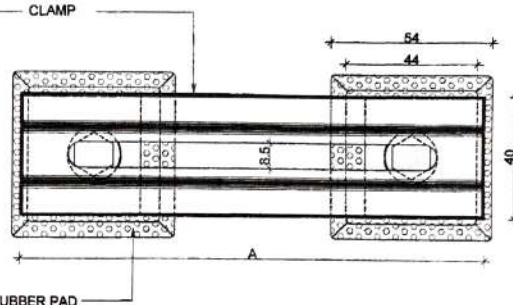
NOTES:-

- CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS BEFORE EXECUTION OF THE WORK.
- ALL DIMENSIONS ARE GIVEN IN MM UNLESS OTHERWISE MENTIONED IN DRAWING.
- FIGURED DIMENSIONS SHALL BE FOLLOWED.

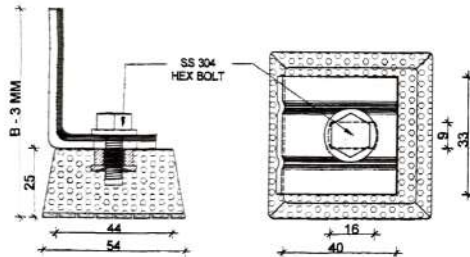
SNO.	DATE	DESCRIPTION	T.O.	DIR(Design)
REVISIONS				
TYPICAL DETAILS OF RCC LINTEL AND CHAJJA'S				
DATE	18.09.2019	HQ CHIEF ENGINEER	SHEET NO.	
DRAWN	HAV MAHESH KUMAR	JAIPUR ZONE	1/1	
TRACED		JAIPUR		
FOLDER NO.				
SCALE	AS SHOWN	DRG NO: CEJZ/TD/2019/S-6		



**TERRACE FLOOR CLAMP -
SECTION VIEW**



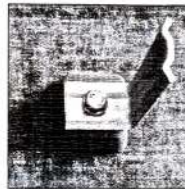
**TERRACE FLOOR CLAMP -
TOP VIEW**



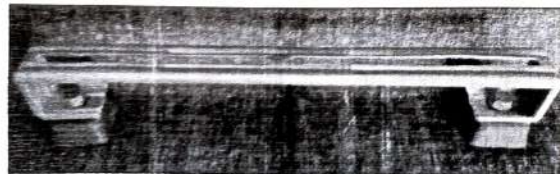
SECTION VIEW

TOP VIEW

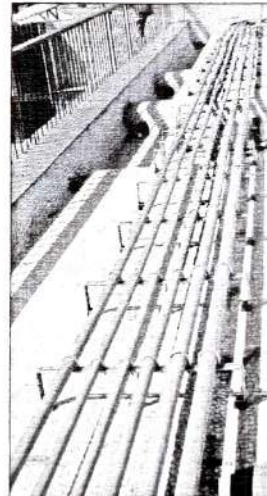
ADDITIONAL SUPPORT FOR CLAMP



SUPPORT IMAGE



TERRACE FLOOR CLAMP



**TERRACE FLOOR CLAMP
FIXING AT SITE**

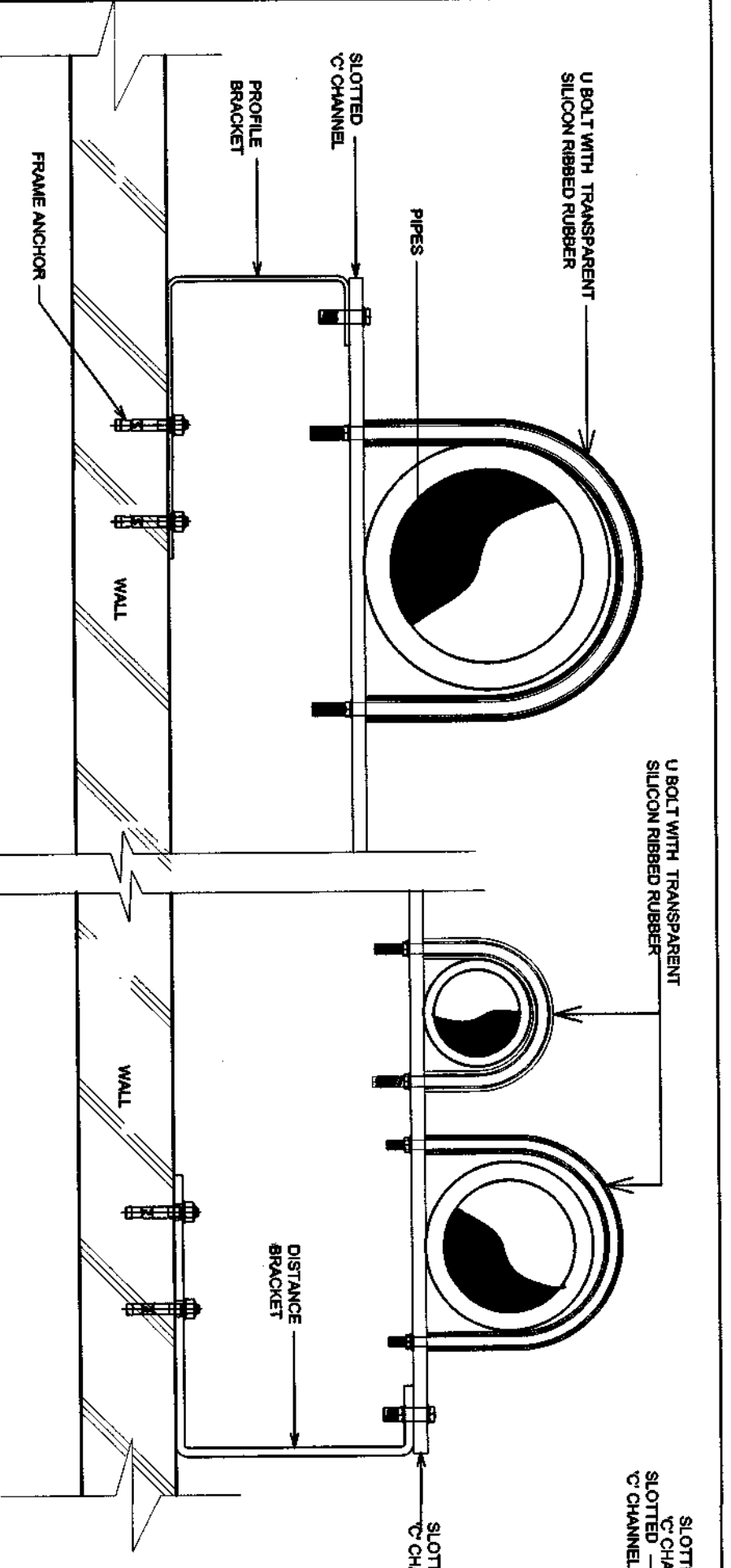
NOTES :-

- THIS DRAWING SHALL BE READ IN CONTINUITY WITH TO DRG NO. TD / 2022 / 01 (SHEET NO. 1/4 TO 4/4).
- ALL DIMENSIONS ARE GIVEN IN MILLIMETERS.
- FIGURED DIMENSIONS SHALL BE FOLLOWED.
- PROVIDING PIPE SUPPORT CLAMPS FOR WATER SUPPLY, FIRE FIGHTING AND SANITARY PIPES RUNNING HORIZONTALLY ON TERRACE FLOOR LEVEL TO BE RAISED AT A SPECIFIED HEIGHT ABOVE FLOOR LEVEL.
- FIXING DETAILS:**
 - WHEN THE FLOOR IS READY WITH FLOOR FINISH AT TERRACE LEVEL THE SURFACE TO BE PREPARED FOR FIXING OF HORIZONTALLY RUNNING PIPES.
 - THE WATER SUPPLY, FIRE FIGHTING AND SANITARY PIPES AS PER DESIGN PARAMETERS SHALL BE DETERMINED AND LAID FOR FIXING WITH CLAMPS.
 - THE CLAMPS LENGTH SIZE (A), HEIGHT (B), ADDITIONAL SUPPORT (IF REQUIRED) AND INTERVAL BETWEEN CLAMP SUPPORTS SHALL BE IN ACCORDANCE WITH:
 - NO. OF PIPES.
 - SIZE OF PIPES.
 - SPACE / DISTANCE BETWEEN THE PIPES.
 - HEIGHT FROM THE FLOOR LEVEL / SLOPE.
 - THE FIXING OF THE PIPES ON THE CLAMP TO BE DONE WITH U BOLT AS PER THE PIPE SIZE - FOR DETAILS OF U BOLT - REF TD/2022/01 SHEET 2/4.
- TECHNICAL PRODUCT SPECIFICATIONS:**
 - THE CLAMP TO BE MADE OF LOW CARBON HOT ROLL GAUGE CORRECTED OIL PICKLED & DRAWN (HROP D) STEEL (IS 1079); MATERIAL STRIP SIZE OF 48 MM WIDTH X 3 MM THICKNESS WITH RIBS AND NOTCHES; HOT DIP GALVANIZED (IS 2620) + ZINC ALUMINUM (ZN AL) FLAKE COATED TO COMPLY WITH SALT SPRAY TEST (TEST METHOD - ASTM B-117-2013) RESULT 2000 HRS. FOR SPECIAL CONDITIONS (HIGH CORROSIVE AREAS) STAINLESS STEEL (SS) MATERIAL CLAMP SHALL BE USED OF SHANTO OR EQUIVALENT.
 - RUBBER PAD MADE OF NITRILE BUTADIENE RUBBER GREEN (NBR 35/45 FRANCE) HAVING OIL, WEATHER, WATER AND HEAT RESISTANCE PROPERTIES; DIMENSION: BASE - 54 MM X 54 MM; TAPERED ABOVE TO 44 MM X 44 MM AND HEIGHT 25 MM; INSERTED WITH SS304 HEX FLANGE NUT BSW 5/16 X 18 X 8 X 13 WITH SERRATION AS PER DIN 6923.
 - THE CLAMP AND RUBBER PAD ARE COMBINED TOGETHER USING SS304 HEX FLANGE BOLT WITH SERRATION 5/16 X 3/4 (A/F 13MM) AS PER DIN 6922.

S.NO	DATE	DESCRIPTION	INITIAL
REVISIONS			
FACTORY MADE PIPE SUPPORTING SYSTEM			
DETAILS OF TERRACE FLOOR CLAMP			
DATE	25-05-2024	HQ CHIEF ENGINEER JAIPUR ZONE	SHEET No.
DRN BY	VISHAL		1
SCALE	N.T.S		1
DRG No.-	TD / 2024 / 02		

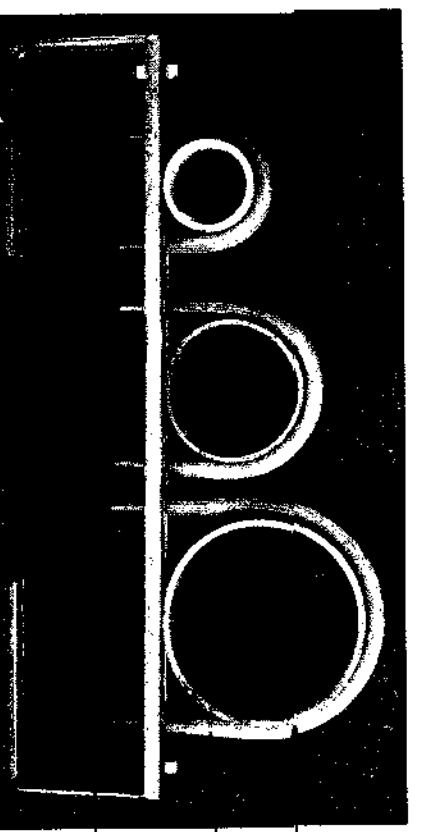
TECH OFFR

DIRECTOR (ARCH)
FOR CHIEF ENGINEER

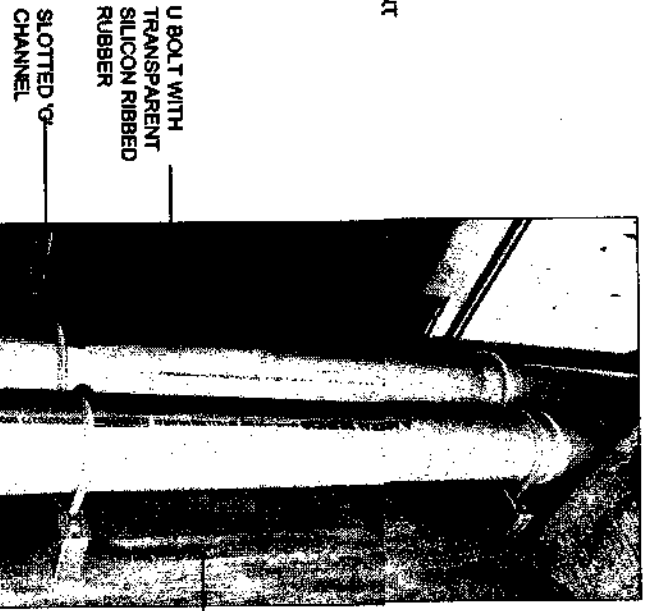


PLAN PROFILE BRACKET (A1 TO A5)
(SUPPORT SYSTEM FOR PIPES)

PLAN DISTANCE BRACKET (A6)
(SUPPORT SYSTEM FOR HEAVY PIPES)



FOR MULTIPLE PIPES (SOIL PIPE, WASTE PIPE, WATER SUPPLY PIPE & RAIN WATER PIPE)
PROFILE BRACKET + SLOTTED 'C' CHANNEL + U BOLT SYSTEM

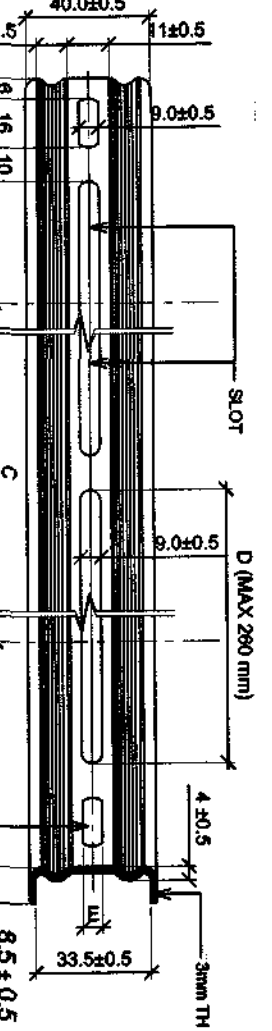


INSTALLATION OF PIPE SUPPORT CHANNEL SYSTEM AT SITE

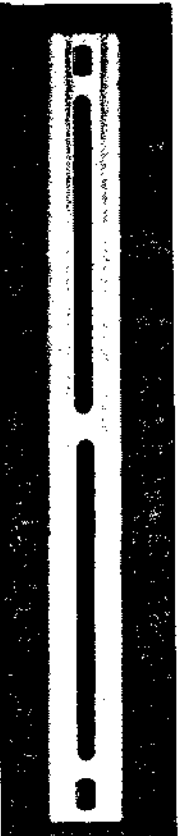
NOTES :-

- CONTRACTOR TO CHECK & VERIFY ALL DIMENSIONS BEFORE EXECUTION OF THE WORK. COORDINATE WITH THE ARCHITECT & ENGINEER SPECIFIED.
- FIGURED DIMENSIONS SHALL BE FOLLOWED.
- PROVIDING SUPPORT TO GRAVITY AND WATER SUPPLY PIPES AT A SPECIFIED DISTANCE FROM THE WALLS AT EVERY METER, WHICH ARE MADE OF DEEP DRAW LOW CARBON STEEL.
- GENERAL NOTES:
1. THE CLAMP AND PICTURES TO BE USED FOR PIPE SUPPORTING & CLAMPING SOLUTIONS SHALL BE CONFIRMED WITH THE ARCHITECT & ENGINEER. THE PIPING DISTANCE FROM THE WALL SHALL BE REFERRED.
2. PROFILE BRACKET, DISTANCE BRACKET & LOW CARBON SLOTTED CHANNEL COATING (OF 100μm) PROVIDING 200 MRS SALT SPRAY TEST (SST).
3. THE COATING OF ZN AL. OR ALUMINUM TO BE USED ON ALL 600 MRS SALT SPRAY TEST (SST).
4. (a) PREPARE A SAMPLE PIPING CLAMPING SYSTEM BEFORE EXECUTION OF THE WORK. COORDINATE WITH THE ARCHITECT & ENGINEER SPECIFIED.
(b) SLOTTED CHANNEL (B1) / LOW CARBON STEEL SLOTTED CHANNEL (B2) / LOW CARBON CONTINUOUS SLOTTED CHANNEL (B3).
(c) FOR THE NECESSARY PIPES RUNNING ON THE CHANNEL, (B1) & (B2) ENSURE ONE SLOT WHICH IS KEPT FREE ON BOTH ENDS FOR PIPING OF PROFILE BRACKET FOR LENGTH UP TO 2.5 FEET.
(d) FOR SLOTTED CHANNEL (B1) LENGTH ABOVE 2.5 FEET, AN ADDITIONAL PROFILE BRACKET SUPPORT NEEDS TO BE PROVIDED FOR EVERY 1.5 FEET INCREASE IN CHANNEL LENGTH OR (B2) FOR SPECIFIC AREA SHALL BE DETERMINED AND CUT ACCORDINGLY.
(e) IN CHANNEL, WALL BE PROVIDED WITH RESPECT SIZE 5. PROFILE BRACKET SHALL BE FIXED ON THE HORIZONTAL, RCC MEMBER WHEREVER FLOOR SLAB / DOOR WITH ANCHOR FASTENERS, IN BETWEEN SUBSEQUENT FLOOR SLABS THE PIPES SHALL BE KEPT AT A DISTANCE OF 100mm FROM THE WALL. THE TYPE OF PROFILE BRACKET AND ITS PIPING USED SHALL BE SUCH THAT THE VERTICAL ALIGNMENT OF PIPES ARE MAINTAINED.
(f) THE PROFILE BRACKETS SHALL BE FIXED AT BOTH ENDS USING FRAME ANCHORS (AS X 80 MM) OR WALLS 6.5 BLOCK, WALL AND SLOTTED CHANNELS (AS X 80 MM LENGTH) OR BULLET ANCHOR (AS X 30 MM) WITH BOLT RING ON RCC MEMBER OR FASTENERS WHICH ARE USED FOR PIPING OF CLAMPS SHALL BE OF (P/AL) BOSH OR FISCHER AND SHALL BE FIXED IN THE BOTTOM OF RCC SLAB/BEAM.
5. NOTES :-

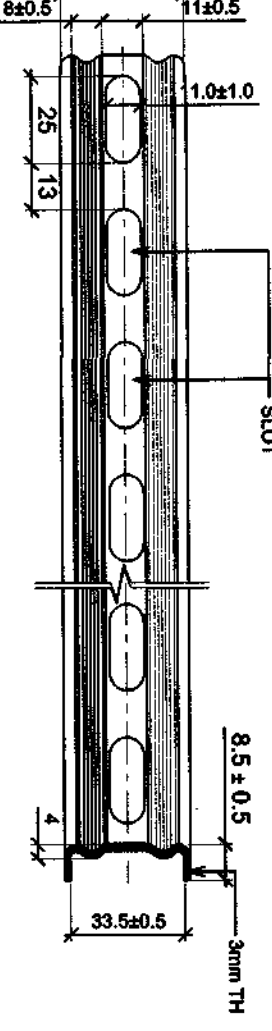
LOW CARBON STEEL CONTINUOUS SLOTTED 'C' CHANNEL, LOW CARBON CONTINUOUS SLOTTED 'C' CHANNEL, WITH PIPES AT A SPECIFIED DISTANCE FROM THE WALLS COATED THICKNESS SHALL BE USED AS SPECIFIED (AS SHOWN IN DRAWING). THIS IS CHANNEL IS SPECIFIED AS SLOTTED 'C' CHANNEL. THE CHANNEL IS SPECIFIED IN THE PROJECT. SLOTTED 'C' CHANNEL, ALSO AVAILABLE IN LOW CARBON STEEL SLOTTED 'C' CHANNEL, ALSO AVAILABLE IN LOW CARBON STEEL SLOTTED 'C' CHANNEL, WITH PIPES AT A SPECIFIED DISTANCE FROM THE WALLS COATED THICKNESS SHALL BE USED AS SPECIFIED (AS SHOWN IN DRAWING).



PLAN OF RIBBED LOW CARBON STEEL CONTINUOUS SLOTTED 'C' CHANNEL (B3)



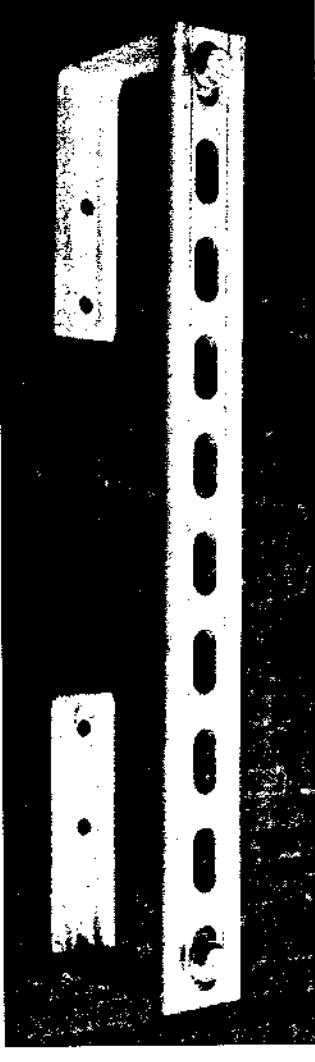
RIBBED LOW CARBON STEEL CONTINUOUS SLOTTED 'C' CHANNEL (B3)



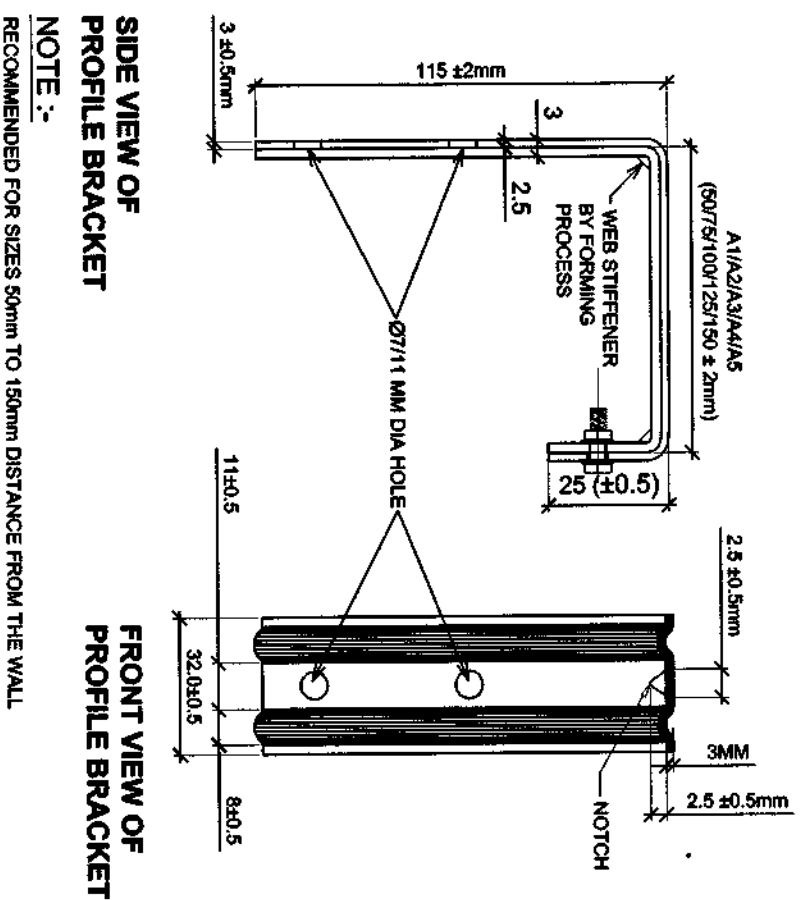
PLAN OF RIBBED LOW CARBON STEEL SLOTTED 'C' CHANNEL (B2)



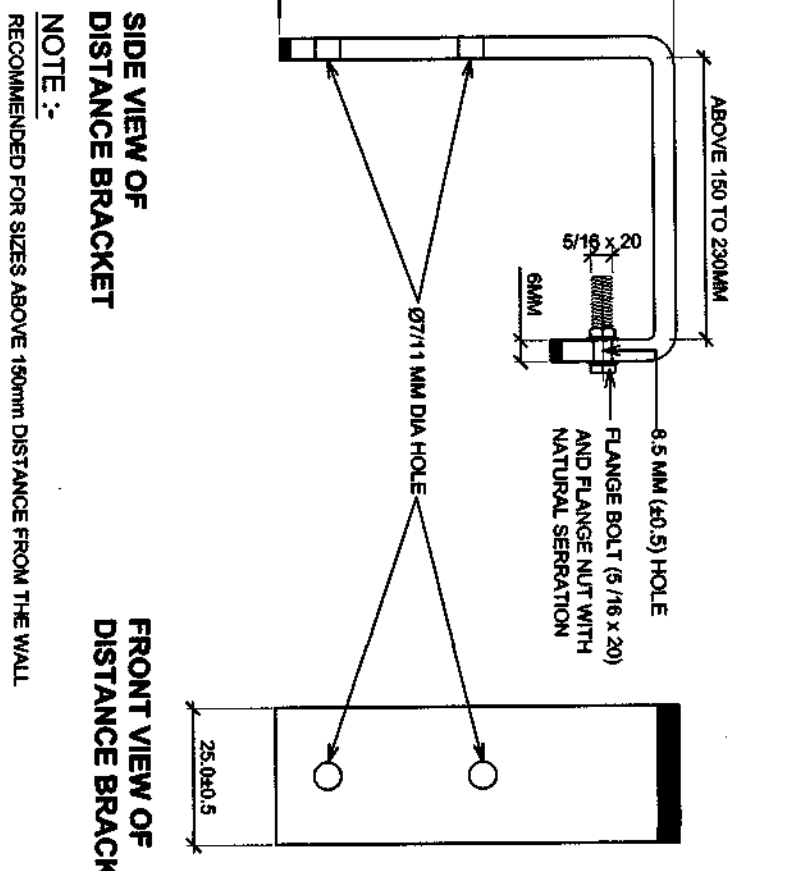
RIBBED LOW CARBON STEEL SLOTTED 'C' CHANNEL (B2)



RIBBED LOW CARBON STEEL SLOTTED 'C' CHANNEL (B2)



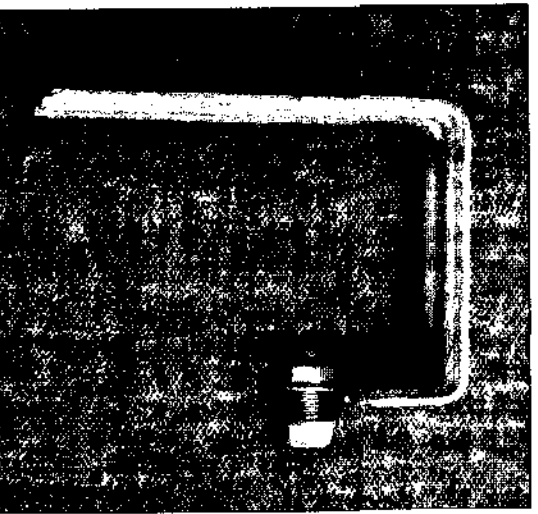
SIDE VIEW OF PROFILE BRACKET



SIDE VIEW OF DISTANCE BRACKET

NOTE :-
RECOMMENDED FOR SIZES 50mm TO 100mm DISTANCE FROM THE WALL.

NOTE :-
RECOMMENDED FOR SIZES ABOVE 100mm DISTANCE FROM THE WALL.



PROFILE BRACKET
PROFILE BRACKET A1 TO A5

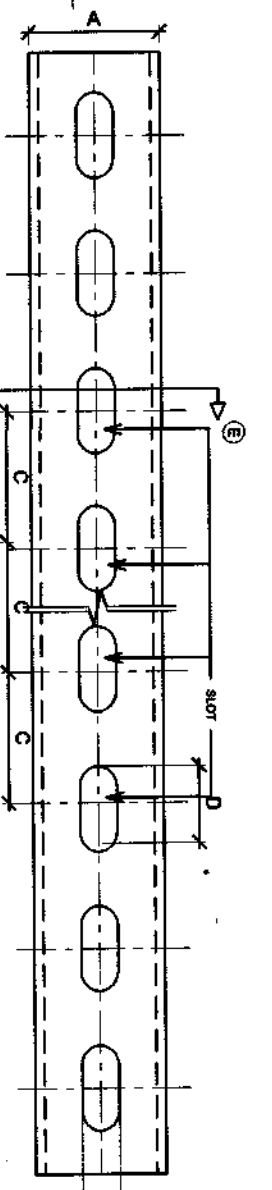


DISTANCE BRACKET
DISTANCE BRACKET A6

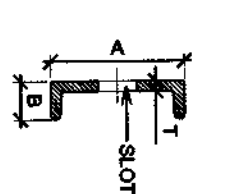
NOTES :-

PROFILE BRACKET OF LOW CARBON STEEL DEEP DRAW HOT ROLLED GAUGE CORRECTED (HARD) CARBON STEEL WITH COATED THICKNESS SHALL BE USED AS SPECIFIED (AS SHOWN IN DRAWING). THIS IS CHANNEL IS SPECIFIED AS SLOTTED 'C' CHANNEL. THE CHANNEL IS SPECIFIED IN THE PROJECT. SLOTTED 'C' CHANNEL, ALSO AVAILABLE IN LOW CARBON STEEL SLOTTED 'C' CHANNEL, ALSO AVAILABLE IN LOW CARBON STEEL SLOTTED 'C' CHANNEL, WITH PIPES AT A SPECIFIED DISTANCE FROM THE WALLS COATED THICKNESS SHALL BE USED AS SPECIFIED (AS SHOWN IN DRAWING).

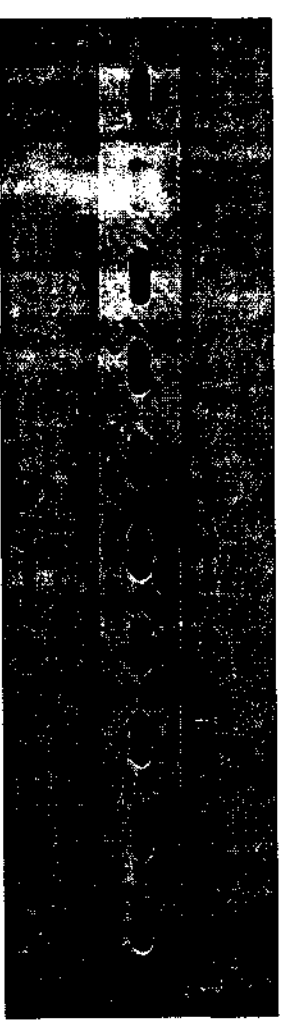
SERIAL NO	DESCRIPTION	TYPE
1	PROFILE BRACKET	A5
2	DISTANCE BRACKET	B1 / B2 / B3
3	SLOTTED 'C' CHANNEL	C1 TO C10
4	U-BOLT	D
5	RAIN WATER BRACKET	E
6	MONO BRACKET	F
7	WALL CLAMP	F



PLAN OF FRP PULTRUDED SLOTTED 'C' CHANNEL (B1)



SECTION A1-E-E



FRP PULTRUDED SLOTTED 'C' CHANNEL (B1)

PRODUCT AND DIMENSIONS	T	A	B	C	D x E
FRP SLOTTED CHANNEL (B1)	3.5 mm ± 0.5	38 mm	11 mm	40 mm	25 x 11
LOW CARBON STEEL (B2) (SLOTTED CHANNEL)	3 mm	40 mm	9 mm	38 mm	25 x 11
LOW CARBON STEEL (B3) (CONTINUOUS SLOTTED)	3 mm	40 mm	9 mm	C	D x 9

FRP PULTRUDED (B1) / LOW CARBON STEEL (B2) SLOTTED 'C' CHANNEL, AND LOW CARBON CONTINUOUS SLOTTED CHANNEL (B3)

NOTE :- FOR CONTINUOUS SLOTTED CHANNEL 'C' & 'D' WOULD CHANGE WITH RESPECT TO DIFFERENT SIZES.

FACTORY MADE PIPE SUPPORTING SYSTEM

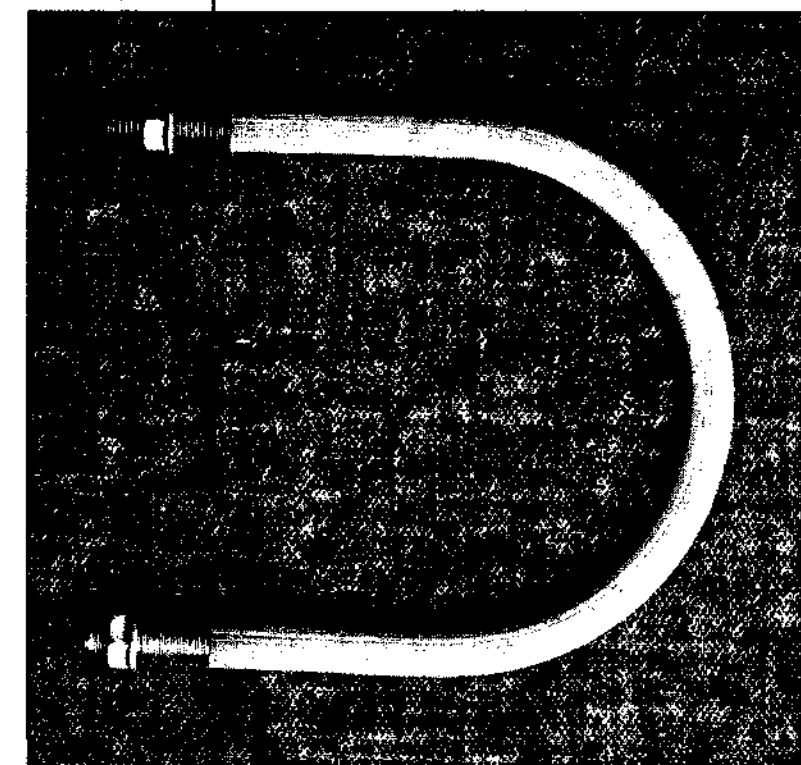
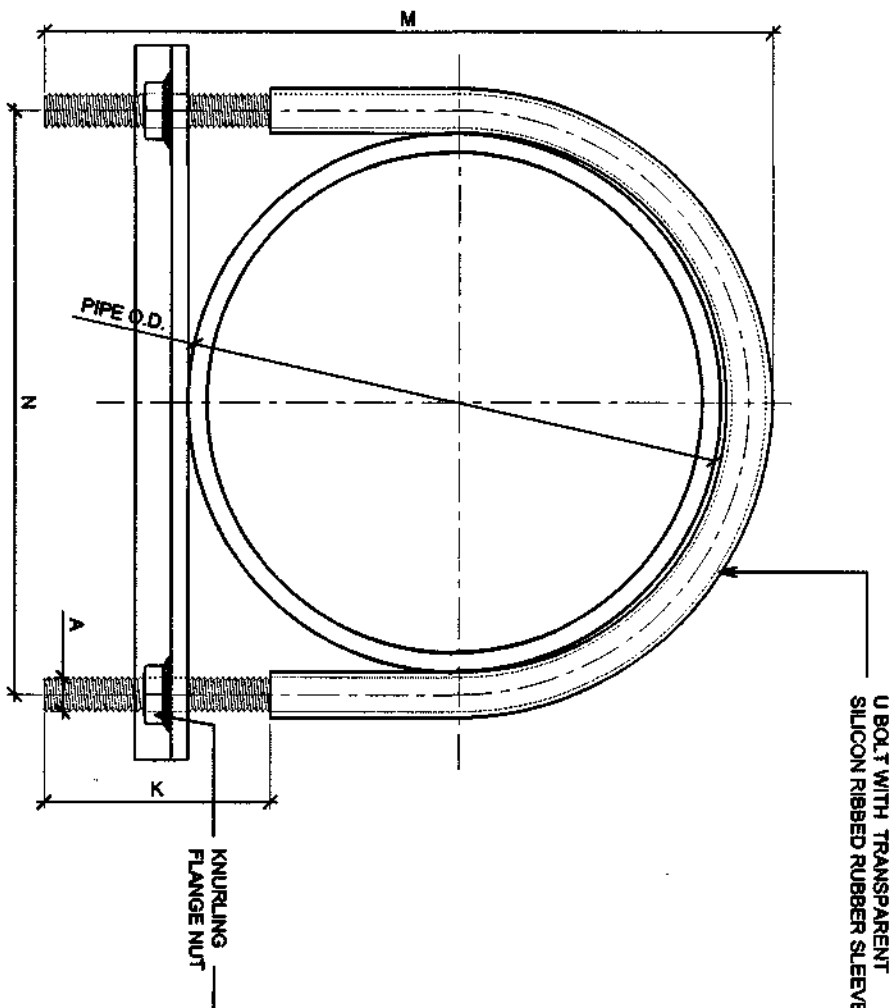
DETAILS OF BRACKET & OTHER MISC DETAILS FOR VERTICAL PIPE SUPPORTING SYSTEM

DATE	18-10-2024	CHIEF ENGINEER	SHT NO
DRN	SUG. SHIVAM	JAI PUR ZONE	1
TCD		JAI PUR	4
CKD			
SCALE	N/T S	DRG NO: TD/202201	

DIR (ARCH)
FOR CHIEF ENGINEER

NOTES :-

U BOLT
U BOLT IS MADE OF DEEP DRAWN LOW CARBON STEEL WITH 2% AL ZINC ALUMINUM FLAKE COATED WITH NOISE DAMPING FLAME COATING OF 2% AL ZINC ALUMINUM FLAKE COATING. HAVING NATURAL SEPARATION WITH 2% AL ZINC COATING. FLAME COATING SHALL BE AS SHOWN IN DRAWING.



DETAIL OF U BOLT (C1 TO C10)

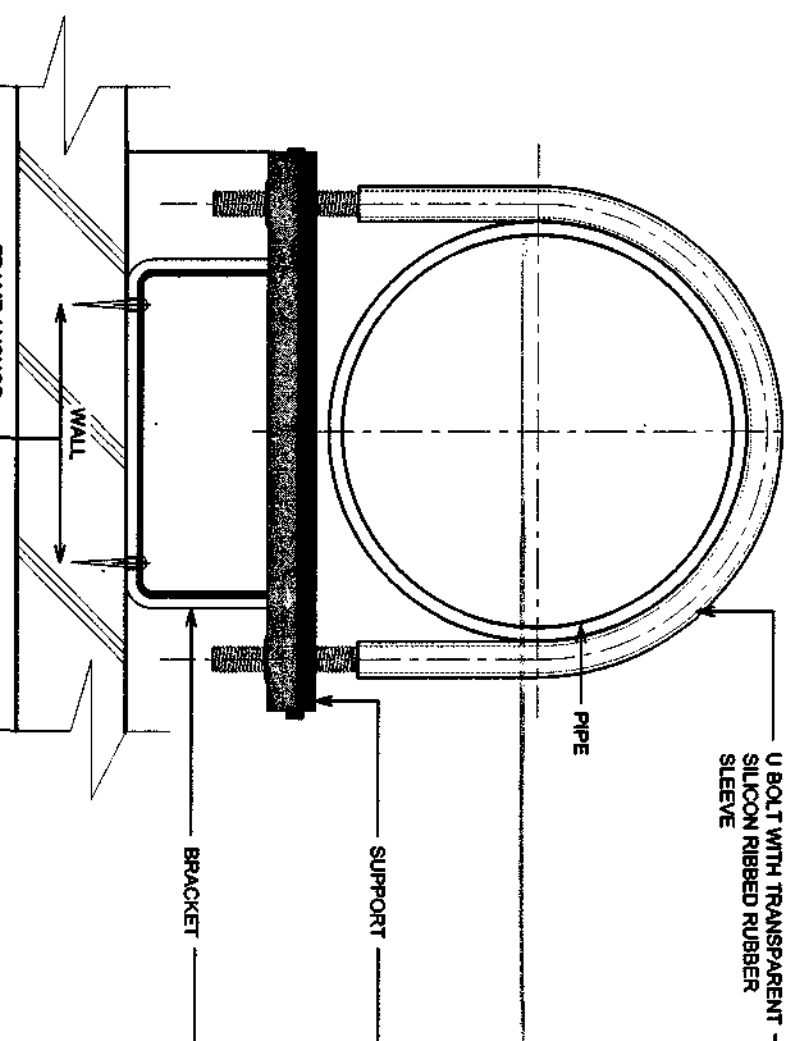
U BOLT

U BOLT TYPE	PIPE TYPE	PIPE O.D.	AG (mm ± 0.5)	N (mm ± 2)	M (mm ± 1)	K (± 0.5mm)
C1	PVC	6" (150mm ± 0.5mm)	7	170	165	50
C2	PVC	4" (100mm ± 0.5mm)	7	120	140	50
C3	PVC	3" (75mm ± 0.5mm)	7	100	128	50
C4	PVC	2 1/2" (63mm ± 0.5mm)	7	85	100	50
C5	CPVC	2" (50mm ± 0.5mm)	7	64	84	40
C6	CPVC	1 1/2" (41mm ± 0.5mm)	7	52	71	40
C7	CPVC	1 1/4" (32mm ± 0.5mm)	7	45	67	35
C8	CPVC	1 1/8" (25mm ± 0.5mm)	7	39	48	35
C9	CPVC	3/4" (22mm ± 0.5mm)	7	32	44	25
C10	CPVC	1/2" (16mm ± 0.5mm)	7	25	35	25

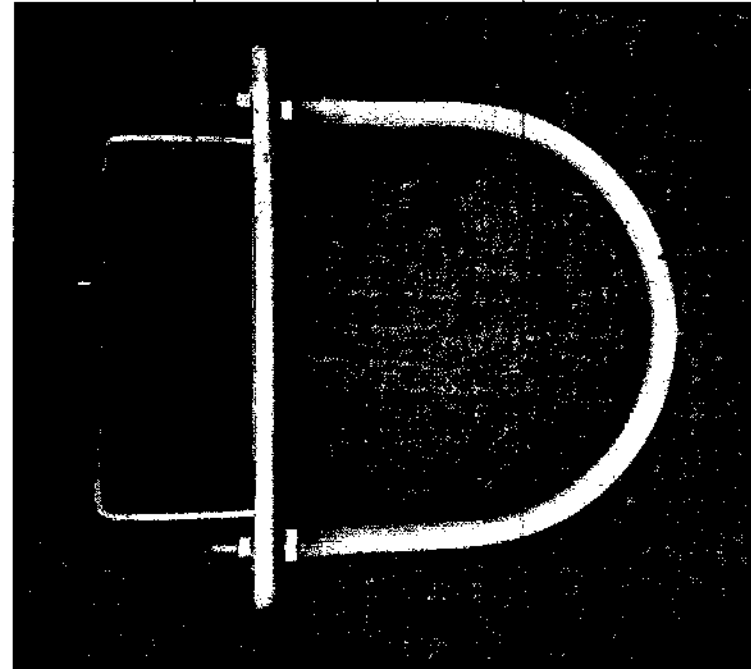
U BOLT (C)

NOTES :-

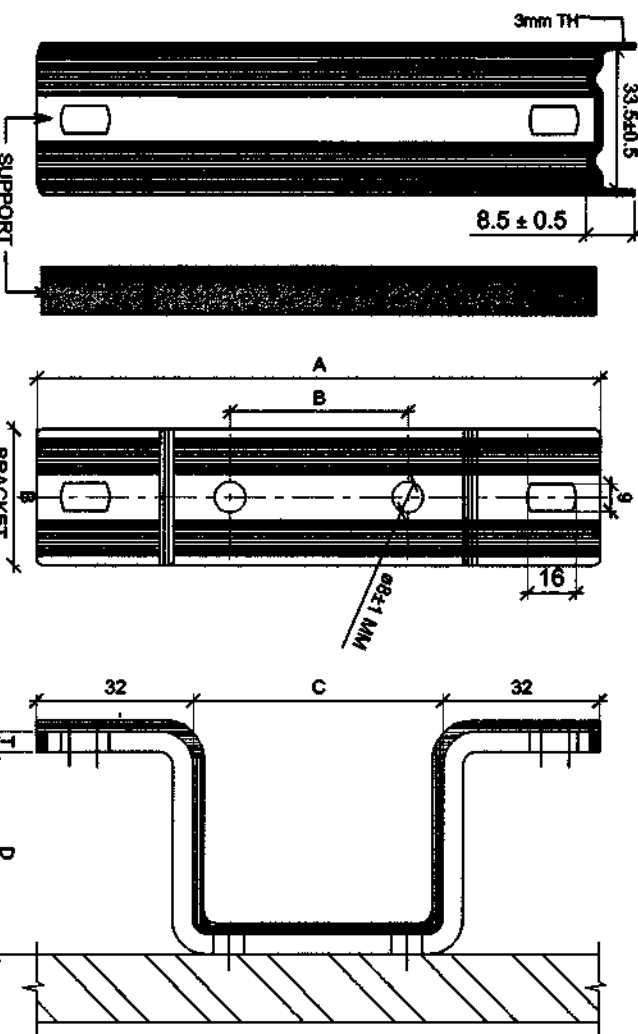
RAIN WATER BRACKET
RAIN WATER BRACKET OF LOW CARBON STEEL HOT DIP GALVANIZED WITH 2% AL ZINC ALUMINUM FLAKE COATING. HAVING NATURAL SEPARATION WITH 2% AL ZINC COATING. FLAME COATING SHALL BE AS SHOWN IN DRAWING. CUSTOMIZED SIZE AVAILABLE AS PER SITE REQUIREMENT.



PLAN OF RAIN WATER BRACKET WITH SUPPORT



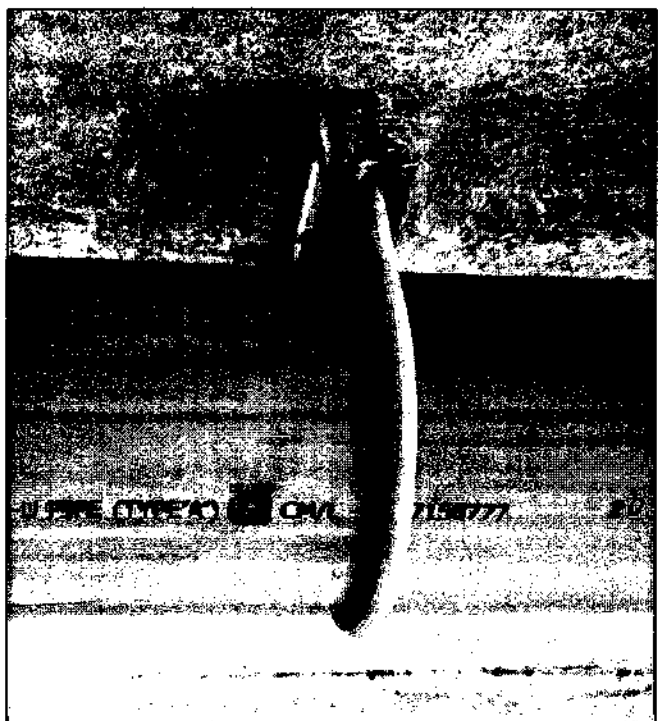
RAIN WATER BRACKET WITH SUPPORT



FRONT VIEW OF SUPPORT PLAN OF BRACKET ELEVATION OF BRACKET

NOTE:- A, B & C VARY AS PER Ø OF PIPE TO BE USED.

PIPE TYPE	BRACKET DIM	PIPE SIZE	PIPE OD	D	A ± 1.0	C ± 1.0
SWR	32 x 3	6"	160	3"	182	120
SWR	32 x 3	4"	110	3"	140	78

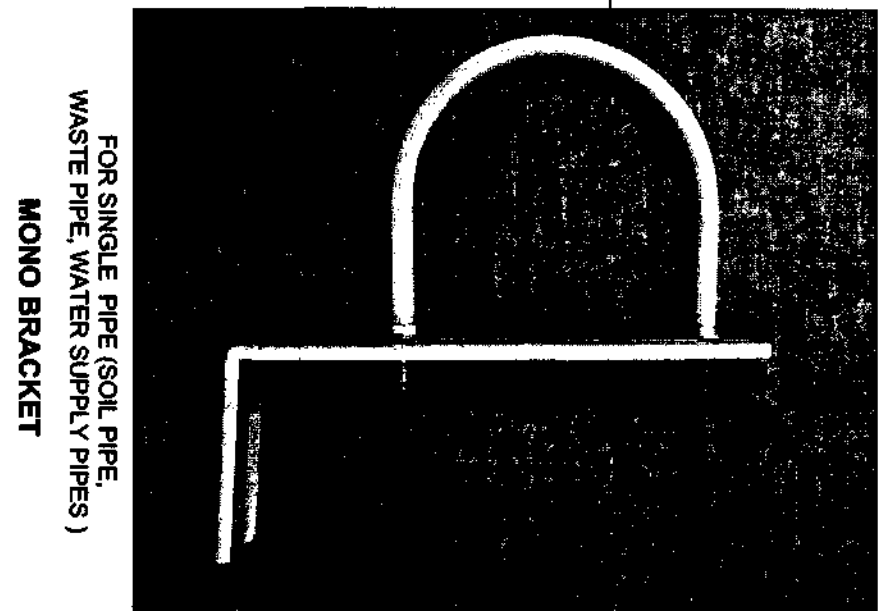
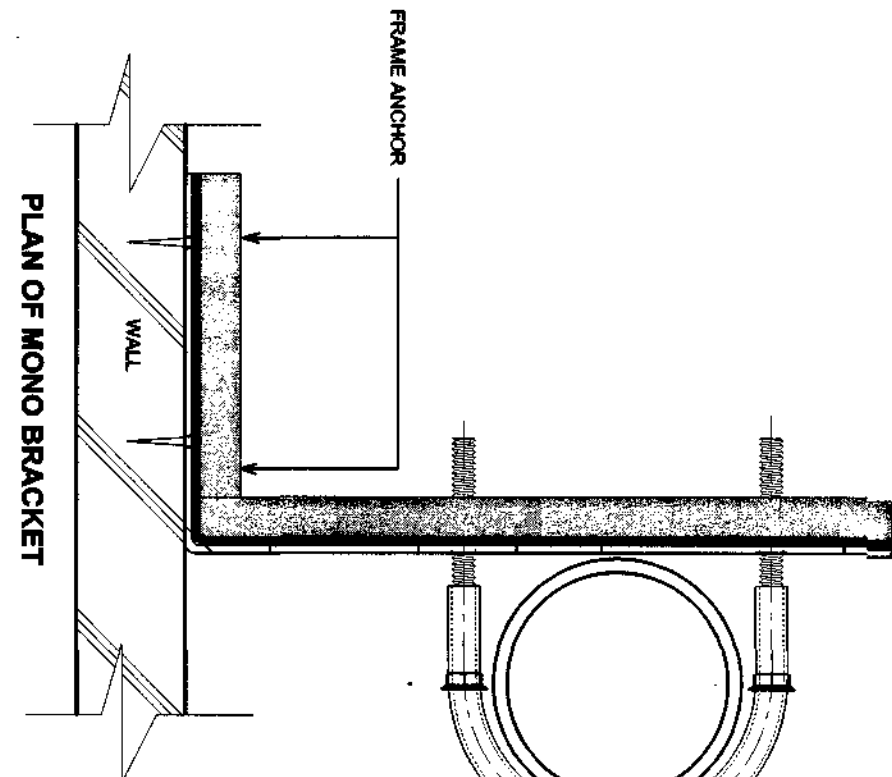


INSTALLATION OF RAIN WATER BRACKET WITH SUPPORT AT SITE

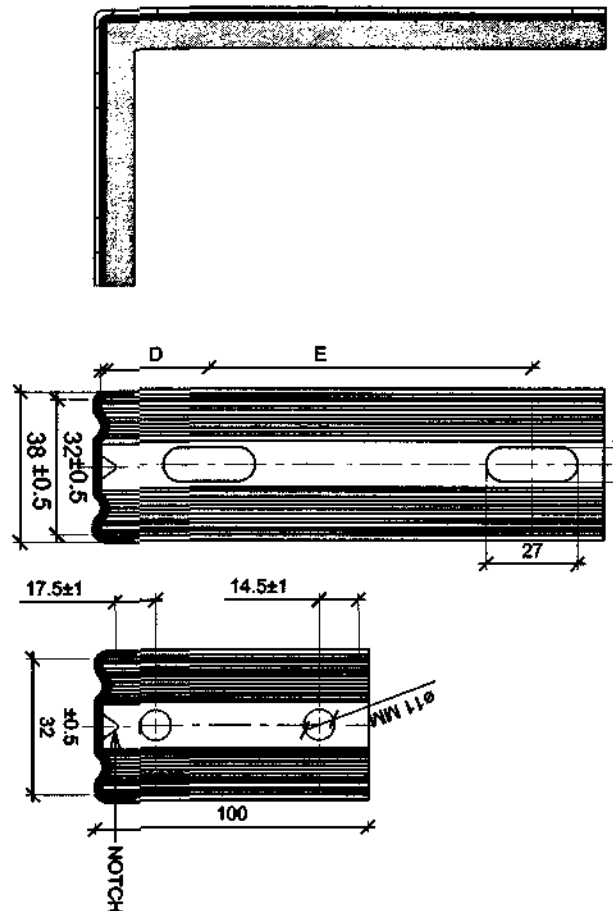
RAIN WATER BRACKET (D)

NOTES :-

MONO BRACKET
MONO BRACKET OF LOW CARBON STEEL WITH HOT DIP GALVANIZED WITH 2% AL ZINC ALUMINUM FLAKE COATING. HAVING NATURAL SEPARATION WITH 2% AL ZINC COATING. FLAME COATING SHALL BE AS SHOWN IN DRAWING.



FOR SINGLE PIPE (SOIL PIPE, WASTE PIPE, WATER SUPPLY PIPES) MONO BRACKET



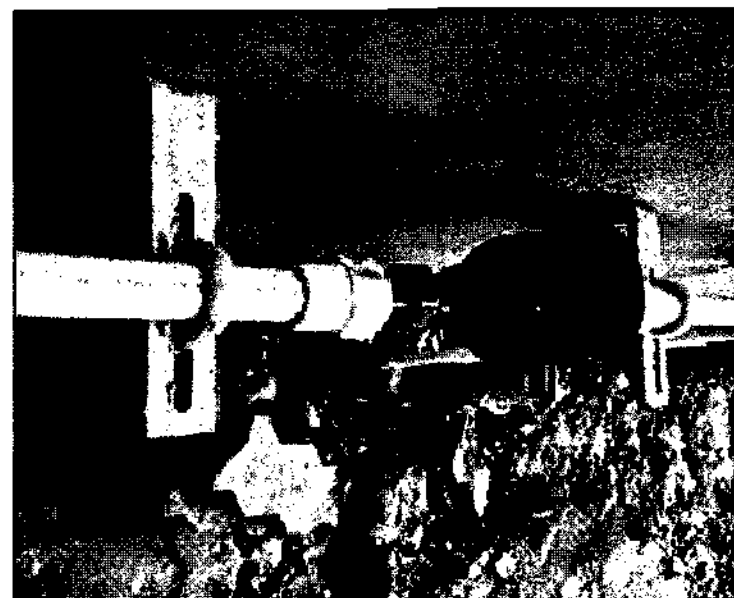
ELEVATIONS OF MONO BRACKET

NOTE:- A, B & C VARY AS PER Ø OF PIPE TO BE USED FOR PRESS UP TO 75 mm DIA.

PIPE TYPE	BRACKET DIM	PIPE SIZE	PIPE OD	D	A ± 2.0	E ± 1.0
CPVC	32 x 3	1 1/2"	33	1	100	47

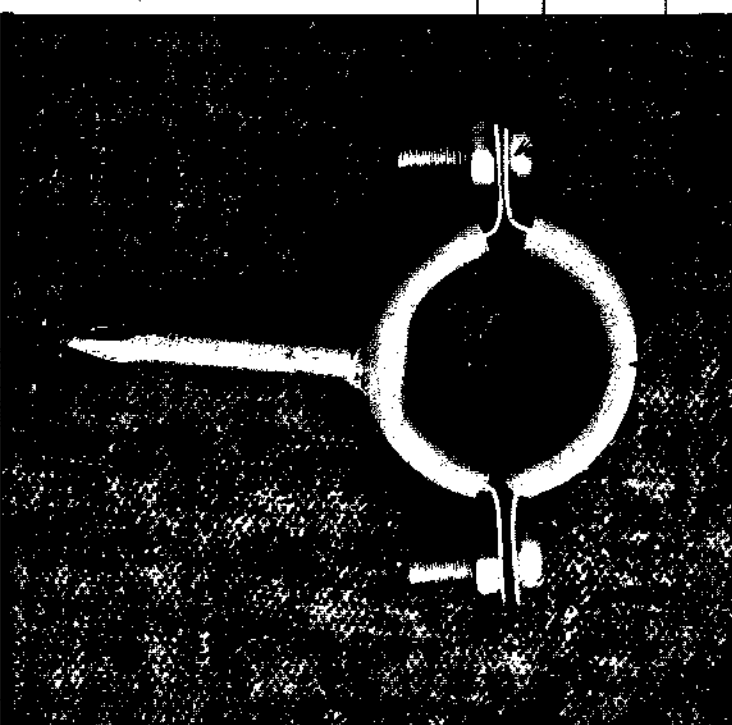
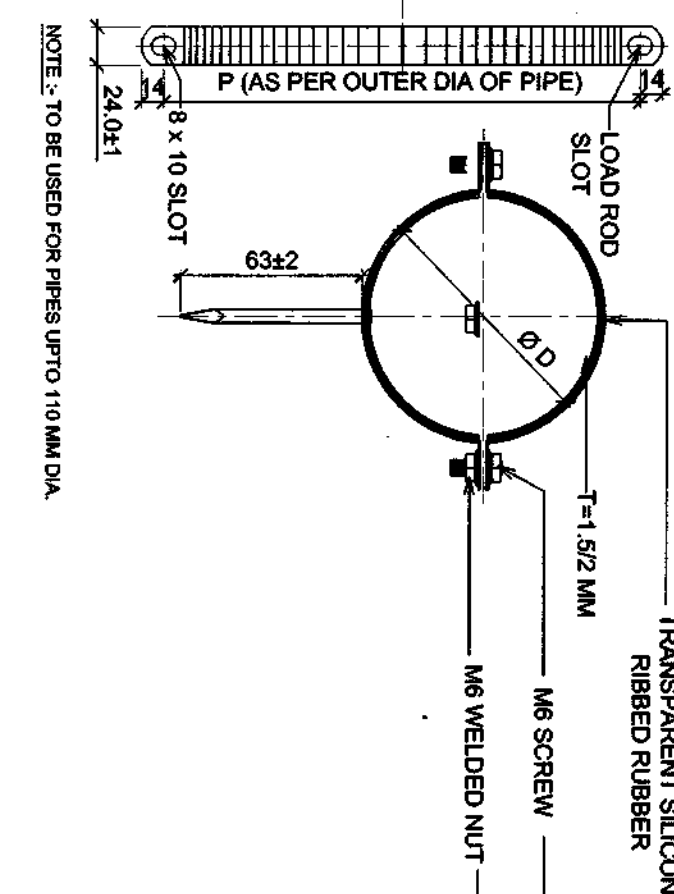
MONO BRACKET (C) (UP TO 75 MM Ø PIPE)

INSTALLATION OF MONO BRACKET AT SITE

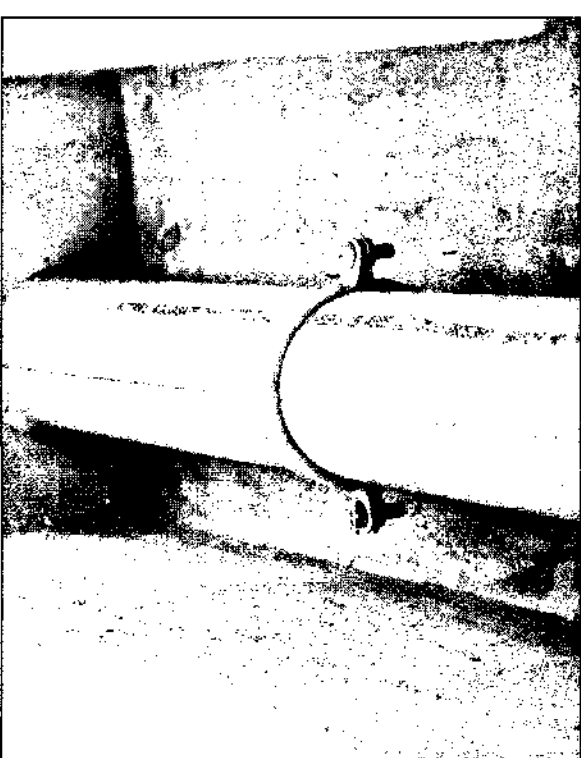


NOTES :-

NAIL CLAMP
NAIL CLAMP IS MADE OF DEEP DRAWN LOW CARBON STEEL WITH 2% AL ZINC ALUMINUM FLAKE COATING. HAVING NATURAL SEPARATION WITH 2% AL ZINC COATING. FLAME COATING SHALL BE AS SHOWN IN DRAWING.



NAIL CLAMP



INSTALLATION OF NAIL CLAMP AT SITE

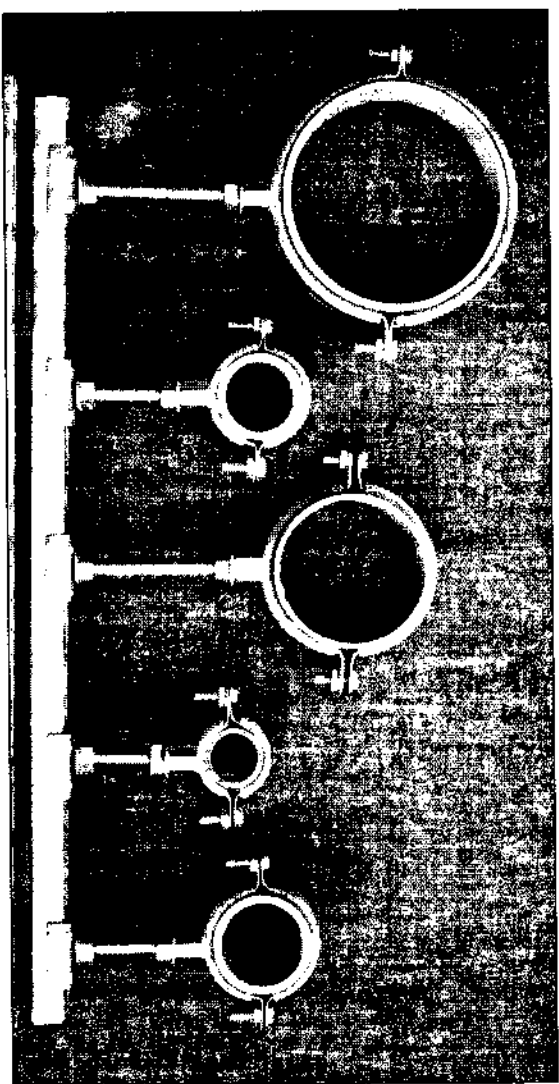
NAIL CLAMP (F)

FACTORY MADE PIPE SUPPORTING SYSTEM

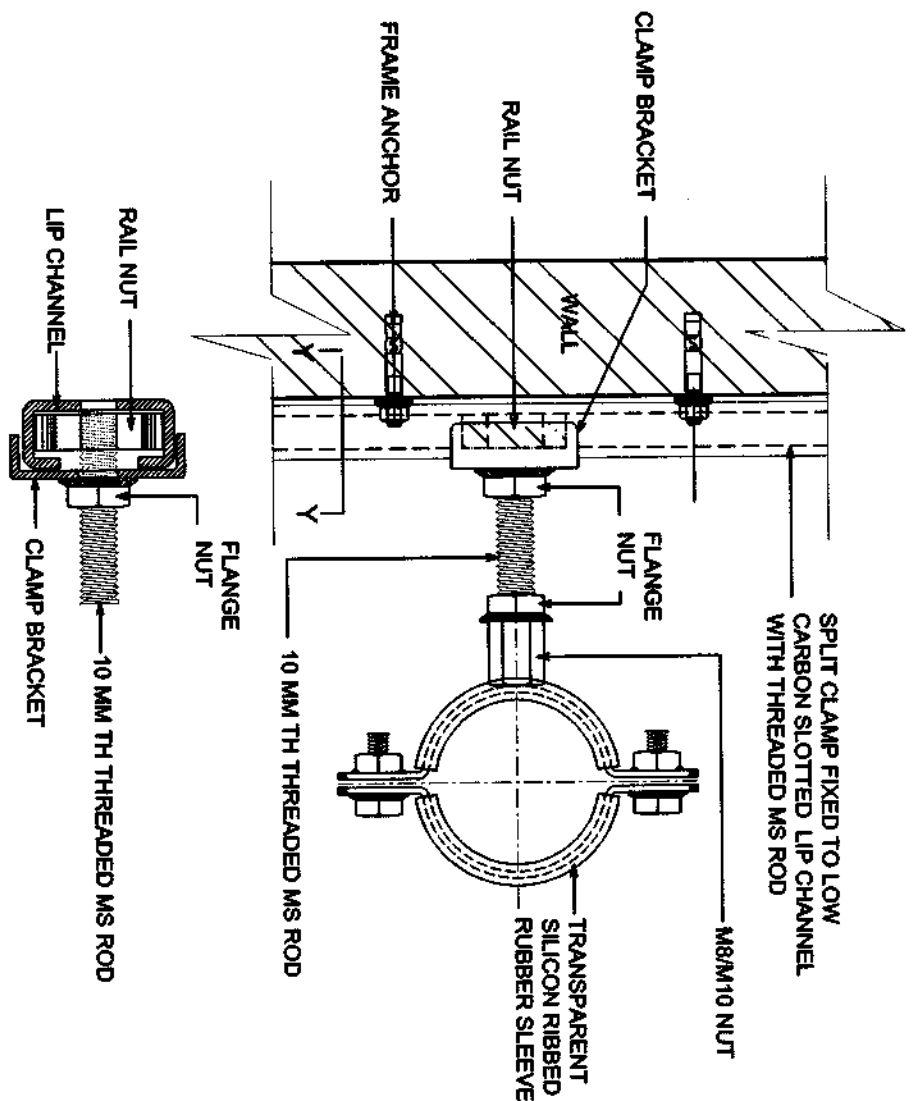
DETAILS OF BRACKET & OTHER MISC DETAILS FOR VERTICAL PIPE SUPPORTING SYSTEM

DATE	1/8-10-2022	CHIEF ENGINEER	SHT NO
DRN	SUB-SHOWN	JAI PUR ZONE	2
TCD		JAI PUR	4
CKD			
SCALE	1/7.5	DRG NO:- TD/202201	

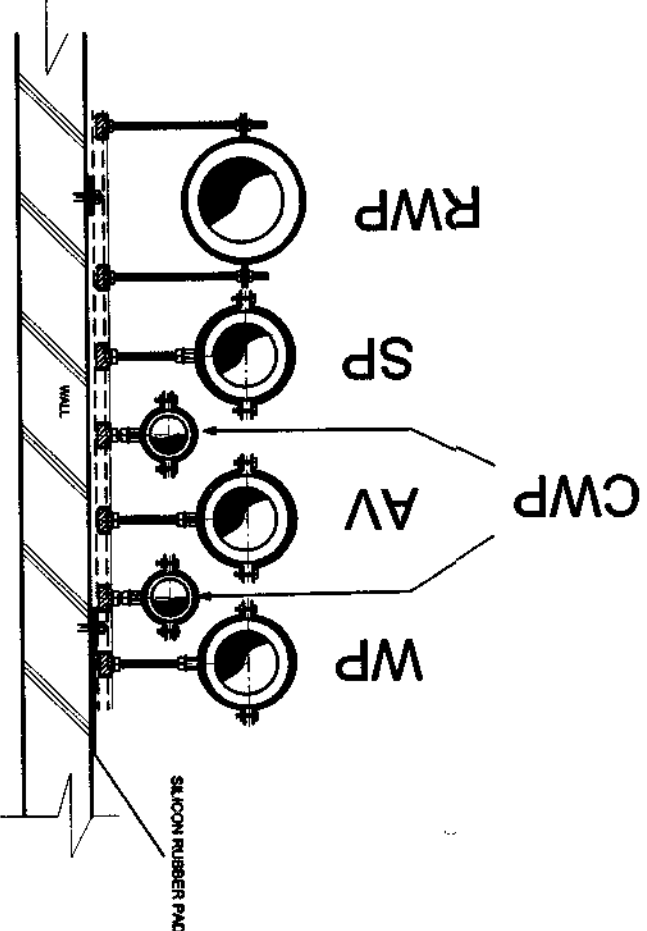
DIR (ARCH)
FOR CHIEF ENGINEER



LIP CHANNEL SLOTTED LIP CHANNEL SYSTEM (L)
PIPE SUPPORT SYSTEM

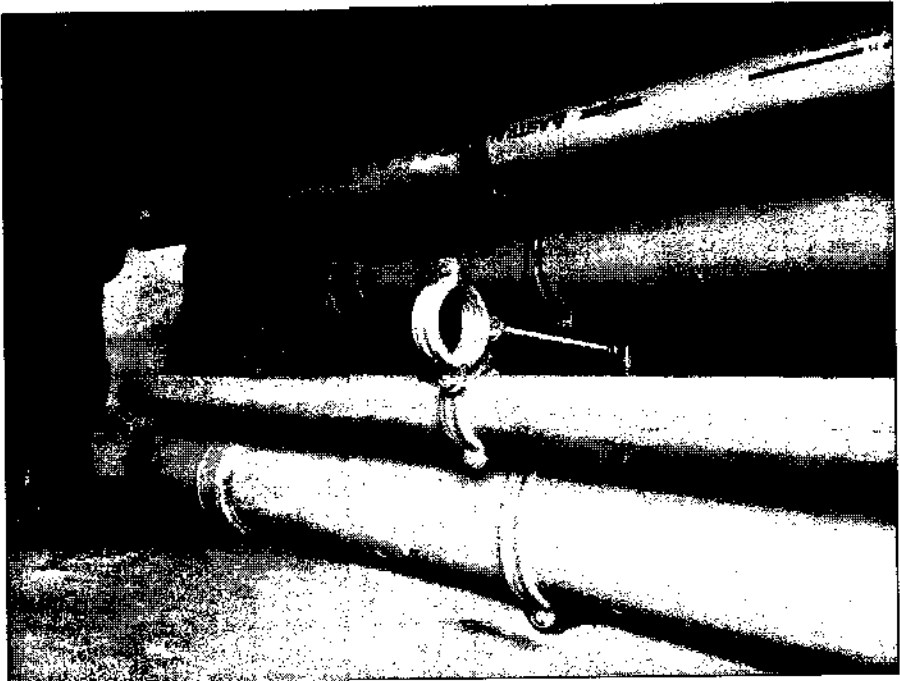


PLAN OF SINGLE ROD PIPE FIXTURE

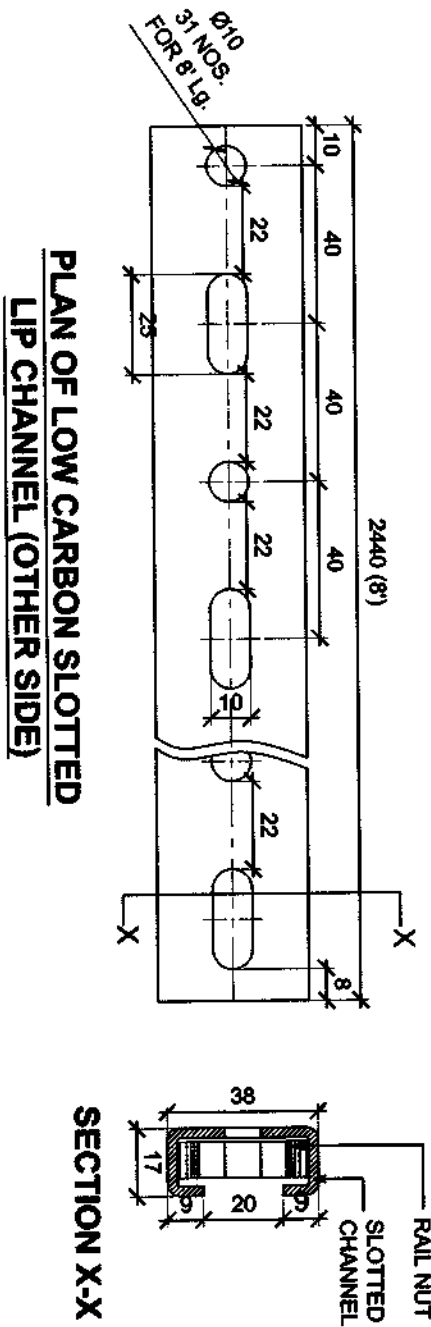


SPACE SAVING LIP CHANNEL SYSTEM

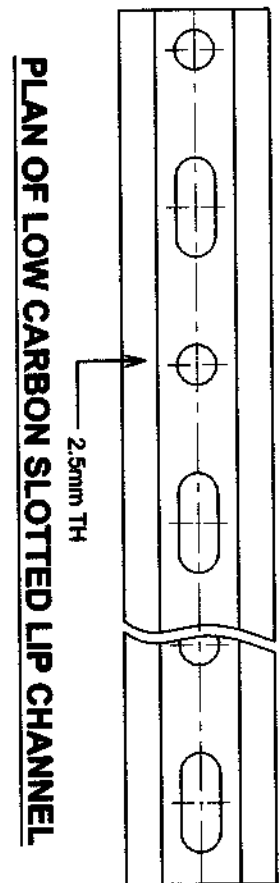
LOW CARBON SLOTTED LIP CHANNEL SYSTEM (L)



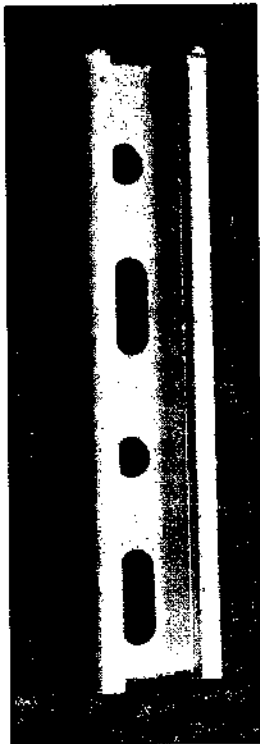
INSTALLATION OF SINGLE ROD VERTICAL PIPE SUPPORTING WITH LIP CHANNEL AT SITE



PLAN OF LOW CARBON SLOTTED LIP CHANNEL (OTHER SIDE)



PLAN OF LOW CARBON SLOTTED LIP CHANNEL



LOW CARBON SLOTTED LIP CHANNEL

NOTES :-

- PROVIDING SLOTTED LIP CHANNEL AND RAIL NUTS AT A SPECIFIED DISTANCE FROM THE WALL FOR VERTICAL AND HORIZONTAL LINES. THE DISTANCE SHALL BE 100 MM FOR VERTICAL AND 150 MM FOR HORIZONTAL. THE DISTANCE SHALL BE 100 MM FOR VERTICAL AND 150 MM FOR HORIZONTAL. THE DISTANCE SHALL BE 100 MM FOR VERTICAL AND 150 MM FOR HORIZONTAL.
- THE CLAMP BRACKET SHALL BE USED FOR PIPE SUPPORTING. THE CLAMP BRACKET SHALL BE USED FOR PIPE SUPPORTING. THE CLAMP BRACKET SHALL BE USED FOR PIPE SUPPORTING.
- THE CLAMP BRACKET SHALL BE USED FOR PIPE SUPPORTING. THE CLAMP BRACKET SHALL BE USED FOR PIPE SUPPORTING. THE CLAMP BRACKET SHALL BE USED FOR PIPE SUPPORTING.
- THE CLAMP BRACKET SHALL BE USED FOR PIPE SUPPORTING. THE CLAMP BRACKET SHALL BE USED FOR PIPE SUPPORTING. THE CLAMP BRACKET SHALL BE USED FOR PIPE SUPPORTING.
- THE CLAMP BRACKET SHALL BE USED FOR PIPE SUPPORTING. THE CLAMP BRACKET SHALL BE USED FOR PIPE SUPPORTING. THE CLAMP BRACKET SHALL BE USED FOR PIPE SUPPORTING.

NOTES :-

- LOW CARBON SLOTTED LIP CHANNEL. SLOTTED CHANNEL OF LOW CARBON DEEP DRAW STEEL WITH HOT DIP + ZN - AL (ZINC ALUMINUM FLAKE) COATED AS SHOWN IN DRAWING.
- CLAMP BRACKET OF LOW CARBON DEEP DRAW HOT ROLLED AL (ZINC ALUMINUM FLAKE) COATED AS SHOWN IN DRAWING.
- RAIL NUT OF LOW CARBON DEEP DRAW STEEL WITH ZN - AL (ZINC ALUMINUM FLAKE) COATED AS SHOWN IN DRAWING.

FACTORY MADE PIPE SUPPORTING SYSTEM

DETAILS OF BRACKET & OTHER MISC SUPPORTING SYSTEM

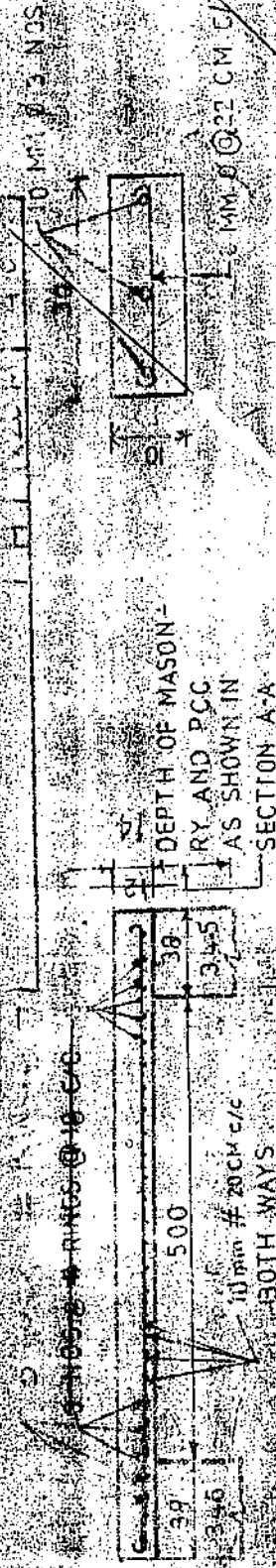
DATE	18-10-2022	CHIEF ENGINEER	SHT NO
DRN	SUB SHOWN	JAIPUR ZONE	4
TCD		JAIPUR	4
CKD			
SCALE	N.T.S	DRG NO:- TD/2022/01	

DIR (ARCH)
FOR CHIEF ENGINEER

REF. DRG. NO. 10-121 SHT NO. 2/2

TABLE

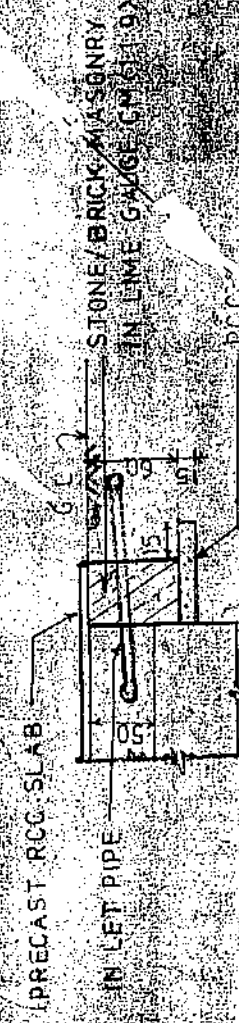
CAPACITY	TYPE	D	H
UP TO 10 USERS	A	120 M	120 M
UP TO 25 USERS	B	200 M	200 M
UP TO 50 USERS	C	200 M	200 M
UP TO 100 USERS	D	250 M	250 M
UP TO 200 USER	E	250 M	350 M
UP TO 500 USERS	F	500 M	450 M



SECTION ON B.B. OF RCC SLAB
SHOWING REINFORCEMENT

(NOT TO SCALE)

DETAILS OF PRECAST
RCC SLAB UNIT



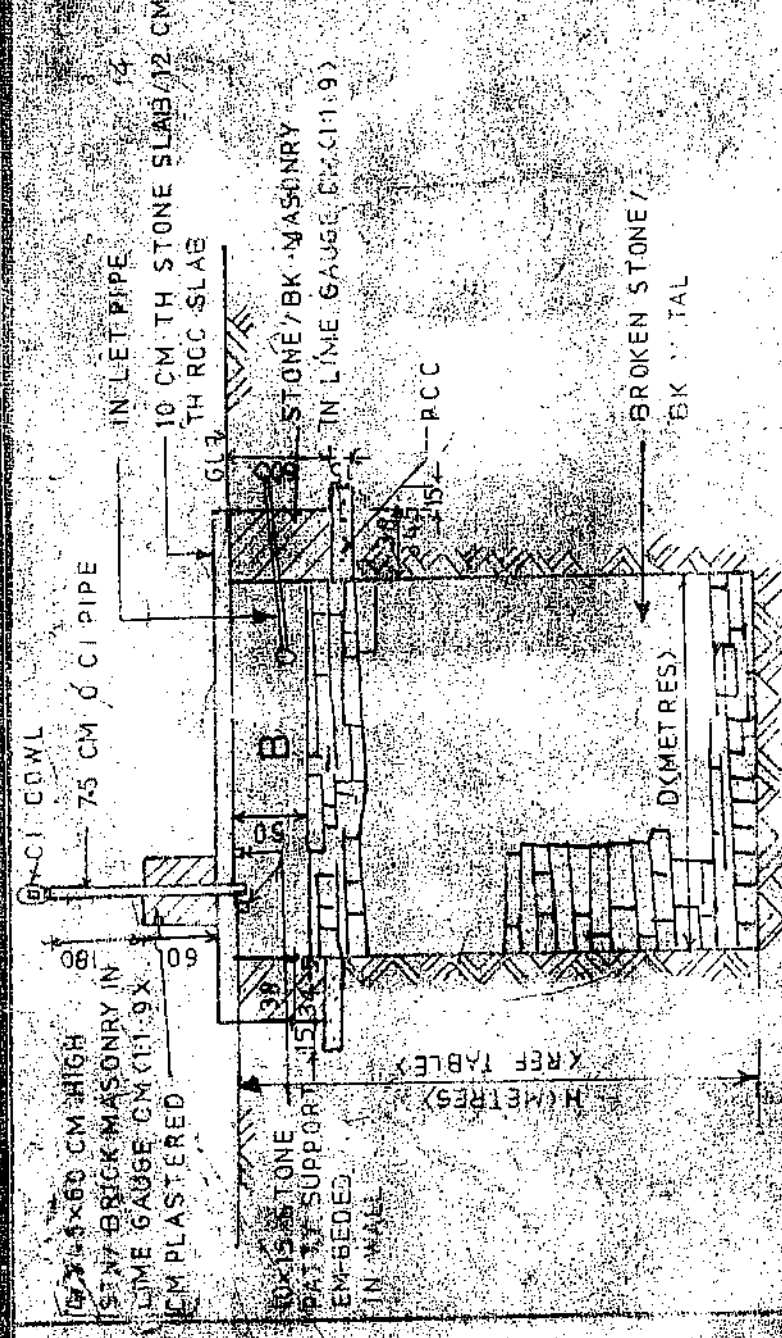
ALTERNATIVE DETAILS AT B

DETAILS OF SOAKAGE PIT

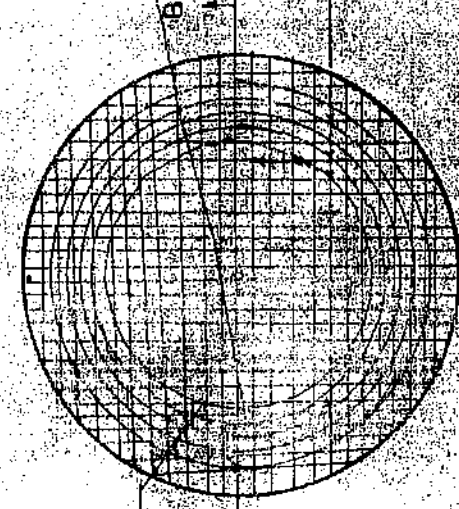
DATE: 28-7-88	CHIEF ENGINEER
DRN: SUDARSHAN	JAIPUR ZONE
CHKD: P. J. S.	JAIPUR
SCALE: AS SHOWN	REF. DRG. NO. 10-121

ASST. ARCHT.

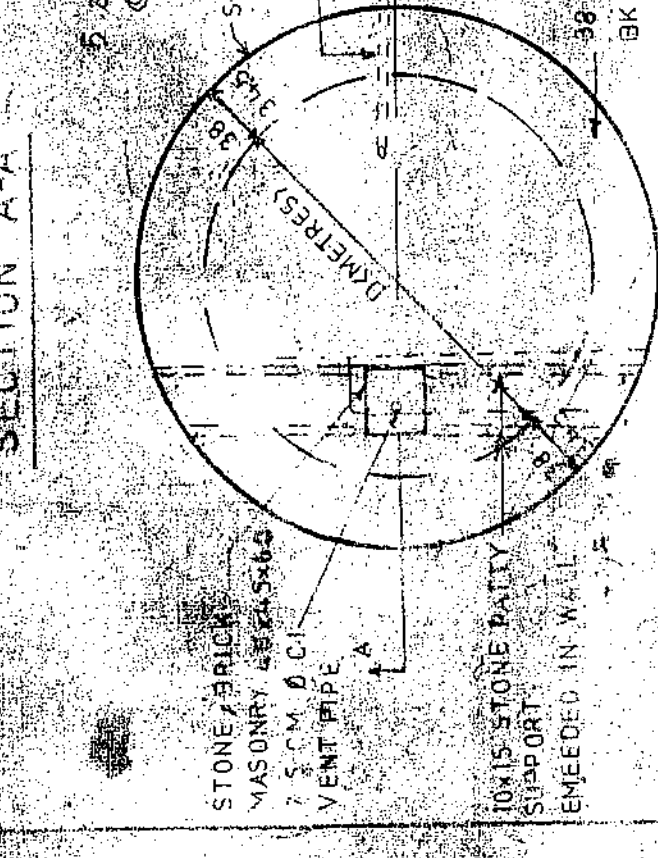
REF. DRG. NO. 10-121



SECTION A-A



PLAN OF RCC SLAB



PLAN OF SOAKAGE PIT

DETAILS OF SOAKAGE PIT

DATE: 28-7-88	CHIEF ENGINEER
DRN: SUDARSHAN	JAIPUR ZONE
CHKD: P. J. S.	JAIPUR
SCALE: AS SHOWN	REF. DRG. NO. 10-121

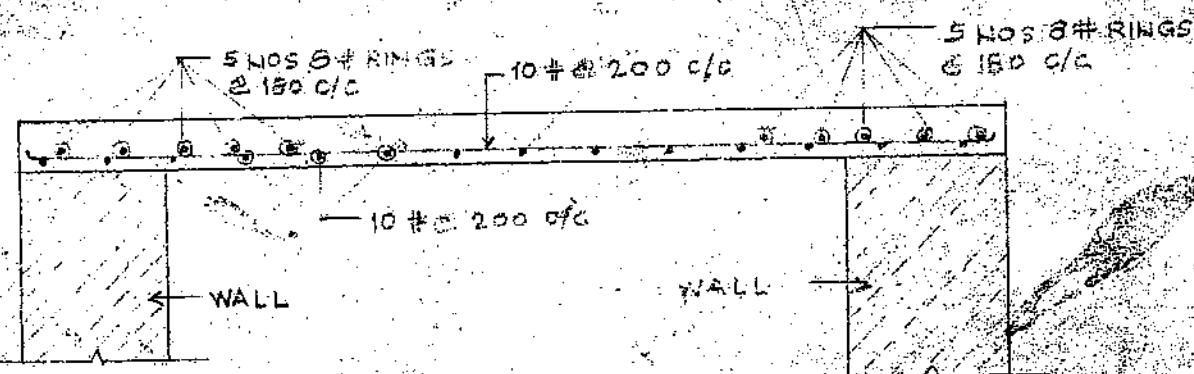
ASST. ARCHT.

REF. DRG. NO. 10-121

PLAN OF SOAKAGE PIT

REF. DRG. NO. 10-121

TABLE		SLAB THICKNESS	
	H IN M.	t IN mm	
A	3.0	4.5	120
B	1.8	4.5	100
C	1.8	3.0	100



SECTION ON B-B OF R.C.C. SLAB
SHOWING REINFORCEMENT

NOTES:-

1. CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS BEFORE EXECUTION OF THE WORK.
2. FIGURED DIMENSIONS SHALL BE FOLLOWED.
3. ALL DIMENSIONS GIVEN ARE IN W/M UNLESS OTHERWISE SPECIFIED.
4. THIS DRG WILL TAKE PRECEDENCE OVER DRG NO. TD-521 SHT 2/2. HOWEVER ALL OTHER DETAILS SHALL BE TAKEN FROM SHT 2/2.

DETAILS OF SOAKAGE PIT

DATE	7.5.76	CHIEF ENGINEER	SHT No
DRN	R.N. JOGI	JAIPUR ZONE	2 R
DESIGN BY	P.K. AGRAWAL	JAIPUR	2
SCALE	N.A.	DRG. NO. TD-521	
(P.K. AGRAWAL) SO-3 (D)		(D.R. KURDIYA) OFFR SO-1 (D) FOR CHIEF ENGINEER	

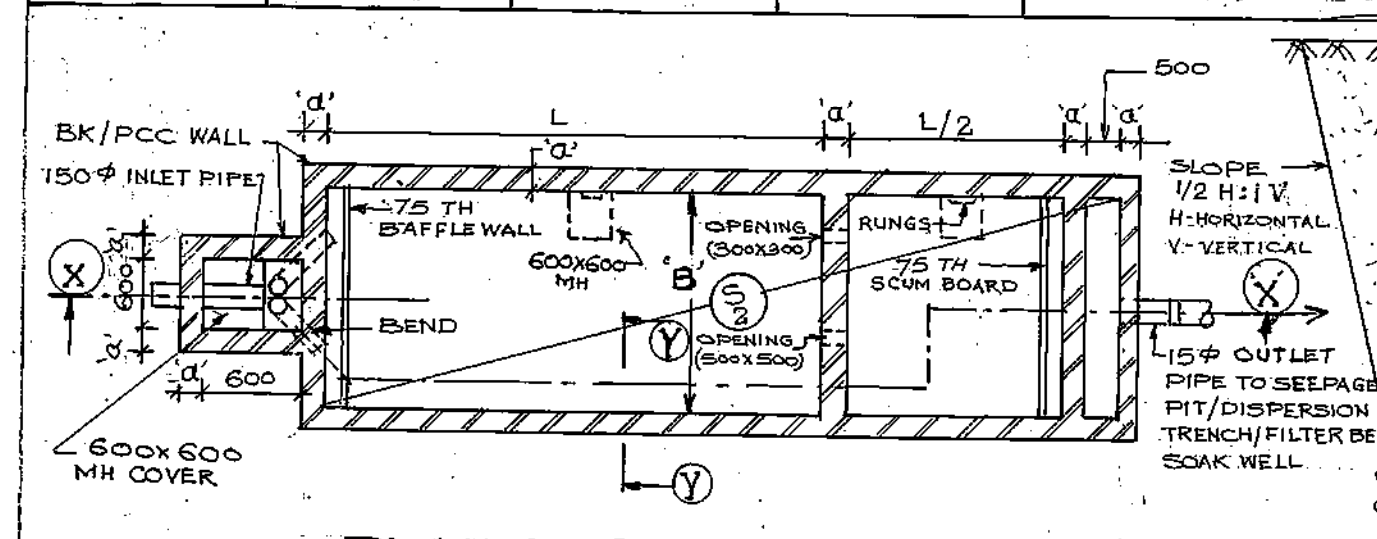
SIZES OF SEPTIC TANKS				
NO. OF USERS	LENGTH 'L'	BREADTH 'B'	LIQUID DEPTH	REMARKS
5	1500	750	1050	
10	2000	900	1400	
15	2000	900	2000	
20	2500	1100	1800	
25	2650	1200	1800	
50	5000	2000	1300	
100	7500	2650	1300	
150	10000	3000	1300	
200	7500	2650	1300	
300	10000	3000	1300	
301 TO 400	12000	3300	1300	
401 TO 500	13500	3650	1300	

TABLE SHOWING THICKNESS OF WALL		
	PCC BLOCK WALL	BRICK WALL
WALLS SHOWN AS 'a'	200	230
WALL SHOWN AS 'b'	400	460
WALL SHOWN AS 'c'	600	690

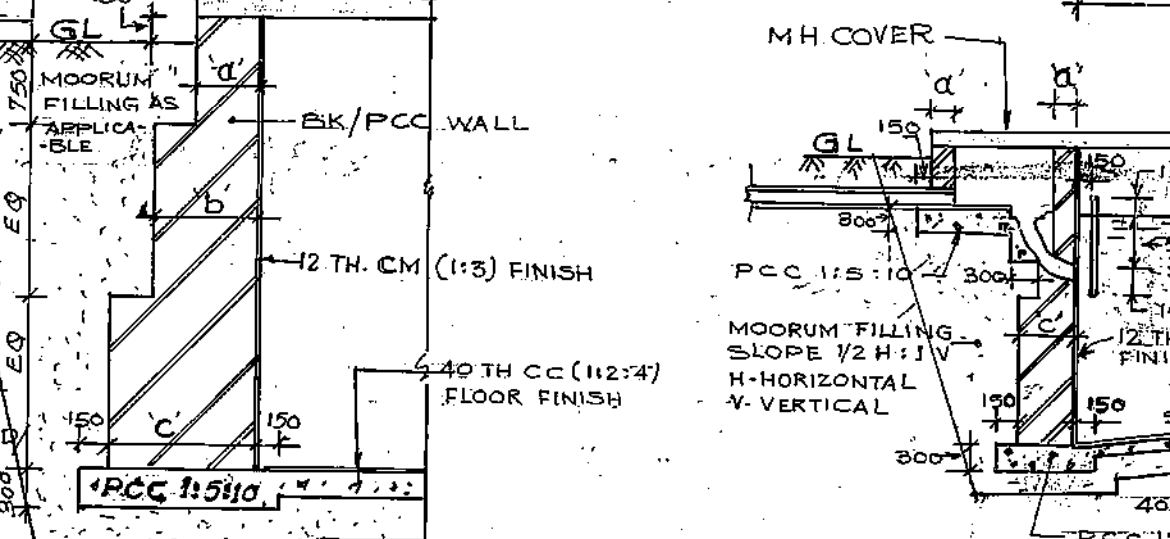
SCHEDULE OF RCC SLABS S-1, S-2			
SLAB	THICKNESS	SHORT SPAN	LONG SPAN
S-1	100	8# @ 200 C/C	8# @ 200 C/C
S-2	120	8# @ 120 C/C	8# @ 200 C/C

TABLE - 1 (REF. NOTE NO. 12)			
SLAB	SOIL TYPE	METHOD OF DISPOSAL	REMARKS
1.	SANDY SOIL, PRECOLATION RATE LESS THAN 30 MINUTE	a) DISPERSION TRENCH WHEN THERE IS NO RESTRICTION IN SPACE b) SEEPAGE PIT WHEN SPACE IS RESTRICTION	REF. NOTE NO. 12
2.	SANDY SOIL, BUT PRECOLATION RATE BETWEEN 30 TO 60 MINUTE	SOAKAGE WELL	
3.	DENSE DRY/ROCKY STRATA/STRAIT/ROCKY WITH HIGH WATER TABLE AND PERCOLATION RATE MORE THAN 60 MINUTE	FILTER BED	

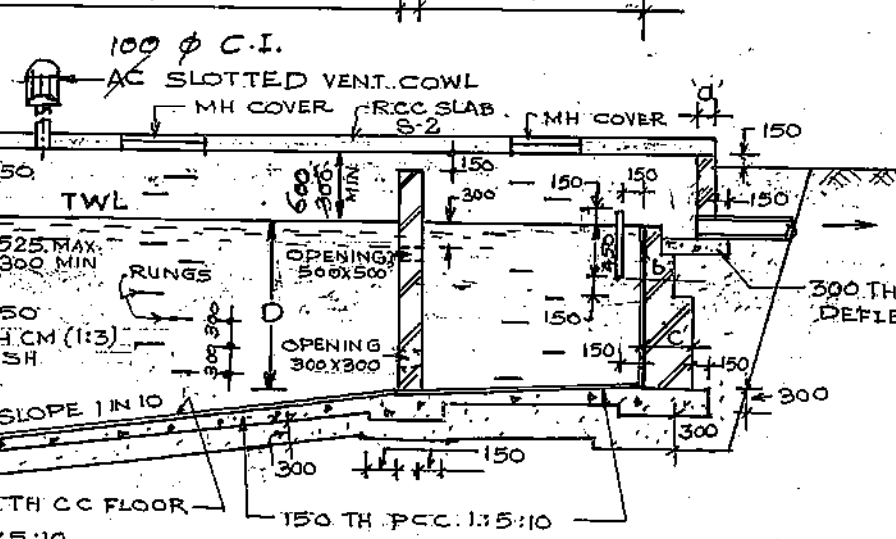
- NOTES:-
- CONTRACTOR TO CHECK & VERIFY ALL DIMENSIONS BEFORE EXECUTION OF THE WORK.
 - ALL DIMENSIONS GIVEN ARE IN MM UNLESS OTHERWISE STATED.
 - FIGURED DIMENSIONS SHALL BE FOLLOWED.
 - TWL INDICATES TOP WATER LEVEL.
 - ALL RCC WORK SHALL BE DONE (DESIGN MIX) AS PER IS-456 OF 2000.
 - IN CASE OF BLACK COTTON AND OTHER EXPENSIVE SOIL IS ENCOUNTERED, MOORUM FILLING 300 MM TH. BELOW BASE CONCRETE SHALL BE CARRIED OUT. SIMILARY MOORUM FILLING AROUND TANK WALL BE PROVIDED AS SHOWN IN FIG.
 - UNDER NO CIRCUMSTANCES SHOULD EFFLUENT FROM A SEPTIC TANK BE ALLOWED INTO AN OPEN CHANNEL OR BODY OF WATER WITHOUT TREATING WITH SEEPAGE PIT/DISPERSION TRENCH/FILTER BED.
 - WHERE INCOMING PIPE IS STEEP DUE TO SITE CONDITION AT LEAST 12 METRE LENGTH JUST BEFORE INLET CHAMBER SHOULD NOT BE LAID GRADIENT NOT STEEPER THAN 1:50.
 - WATER TABLE HAS BEEN ASSUMED MUCH BELOW THE BASE OF SEPTIC TANK IN CASE OF ANY DEVIATION SAME SHALL BE REPORTED TO THIS OFFICE FOR REVISION.
 - INTERNAL SURFACE OF SEPTIC TANK WALLS, INLET CHAMBER, INTERCEPTING CHAMBER & DISTRIBUTION CHAMBER SHALL BE PLASTERED WITH CM 1:3 MIXED WITH WATER PROOFING COMPOUND. SIMILARY FLOORS SHALL BE PROVIDED WITH 40 MM TH. C.C. (1:2:4) FLOORING FINISHED SMOOTH.
 - DEPTH AND OTHER DETAILS OF INTERCEPTING CHAMBER, DISTRIBUTION CHAMBER & INLET CHAMBER NOT SPECIFIED IN DRG. SHALL BE AS DIRECTED BY G.E. AS PER SITE CONDITIONS.
 - UNLESS OTHERWISE SPECIFIED THE GUIDE LINE GIVEN IN TABLE 1 SHALL BE FOLLOWED FOR METHOD OF DISPOSAL OF SEPTIC TANK EFFLUENT, HOWEVER GE SHALL CARRYOUT PERCOLATION TEST AS PER IS-2470-1985.
 - RCC ROOF SLAB FOR SEPTIC TANK/INTERCEPTING CHAMBER SHALL BE LAID IN SLOPE 1 IN 40.



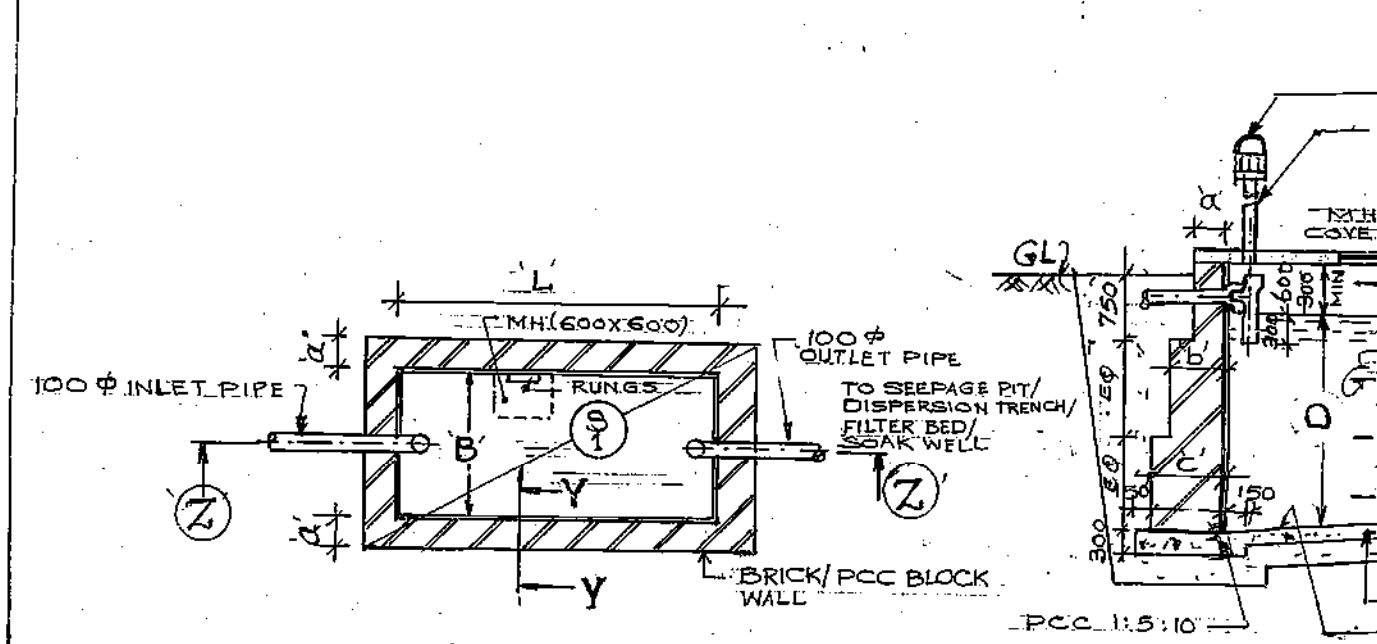
PLAN OF SEPTIC TANKS FOR USERS 100 & 150



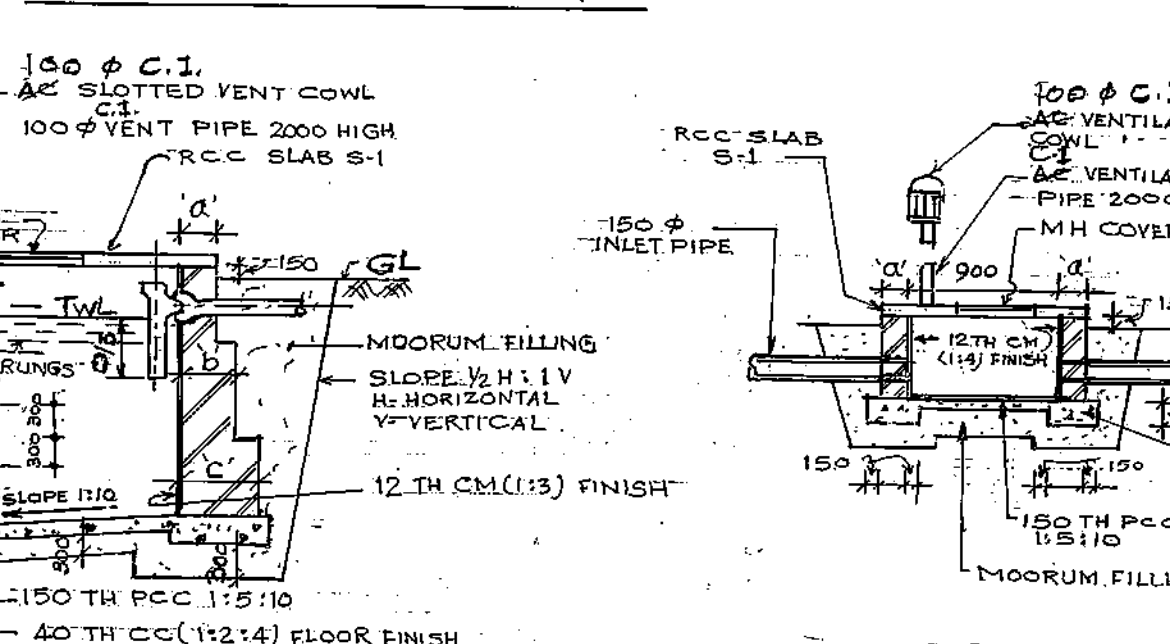
TYPICAL SECTION OF SEPTIC TANK OUTER WALL AT Y-Y



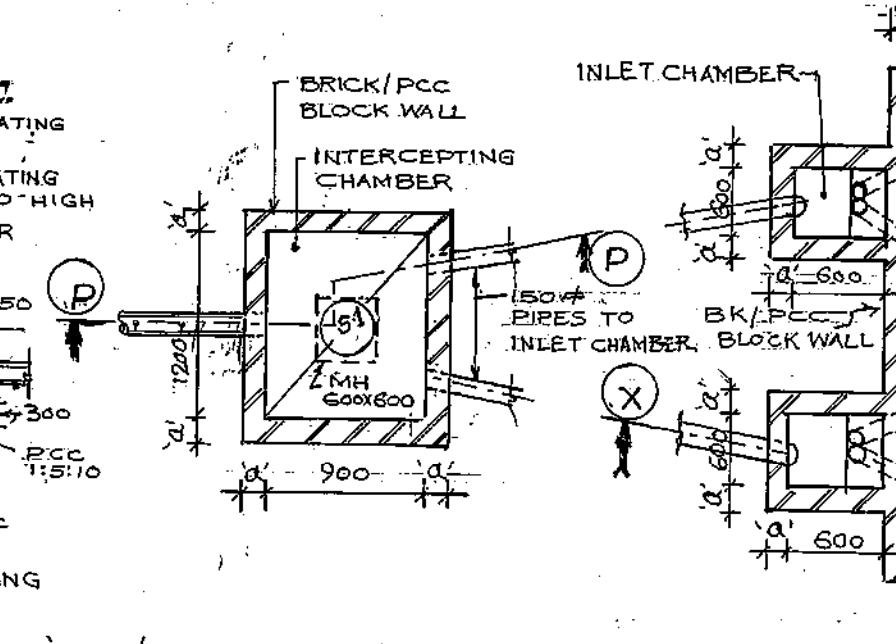
SECTION AT X-X



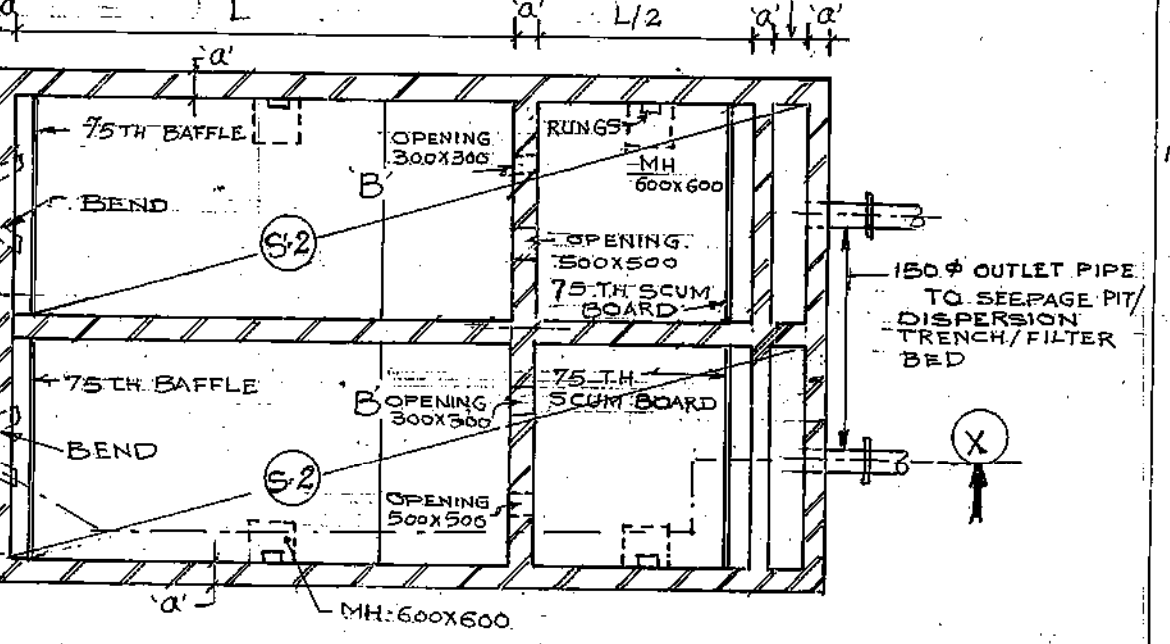
PLAN OF SEPTIC TANKS FOR USERS 5, 10, 20, 25 & 50



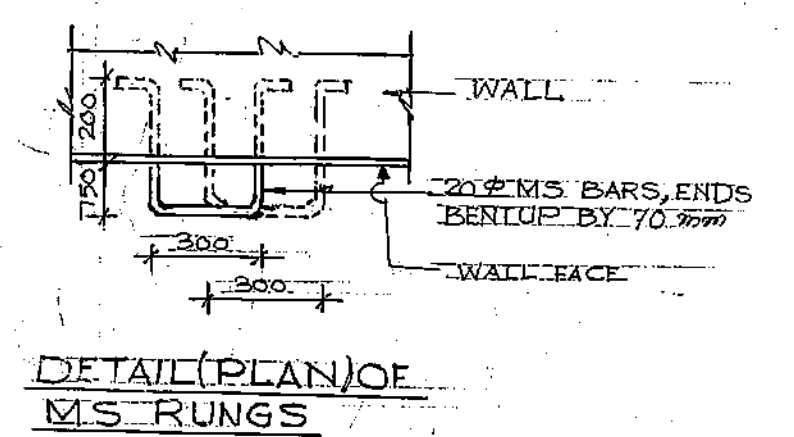
SECTION AT Z-Z



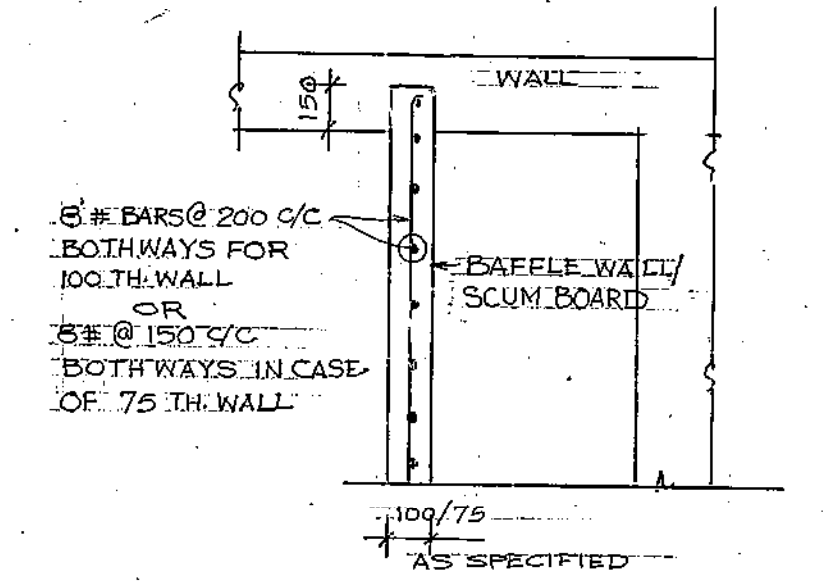
DETAIL OF INTERCEPTING CHAMBER



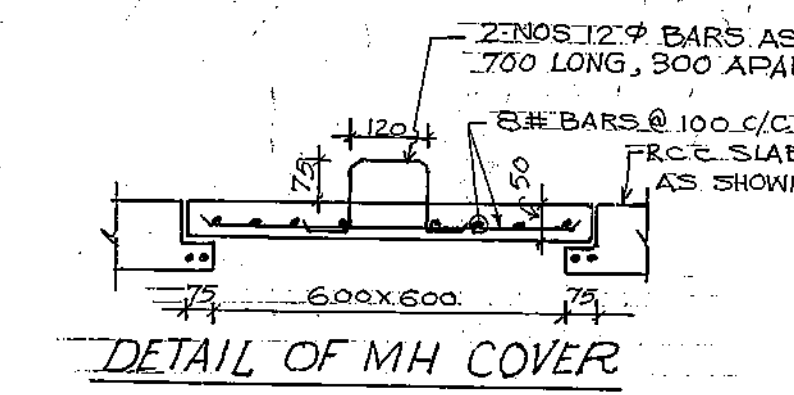
PLAN OF SEPTIC TANKS TO FOR USERS 200 & 300 USERS & 500 USERS



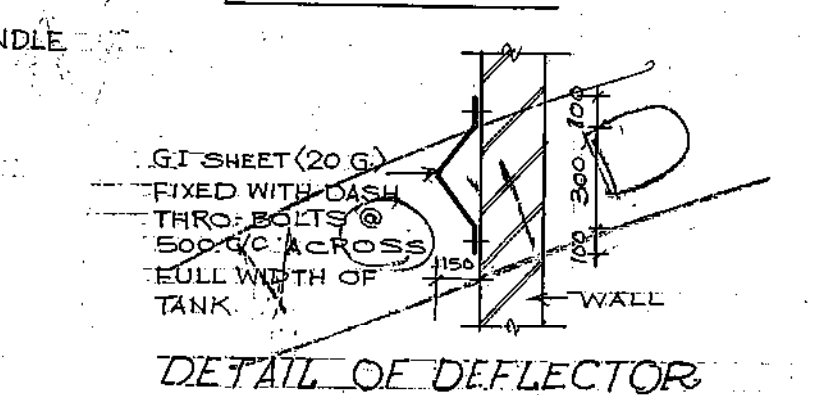
DETAIL (PLAN) OF MS RUNGS



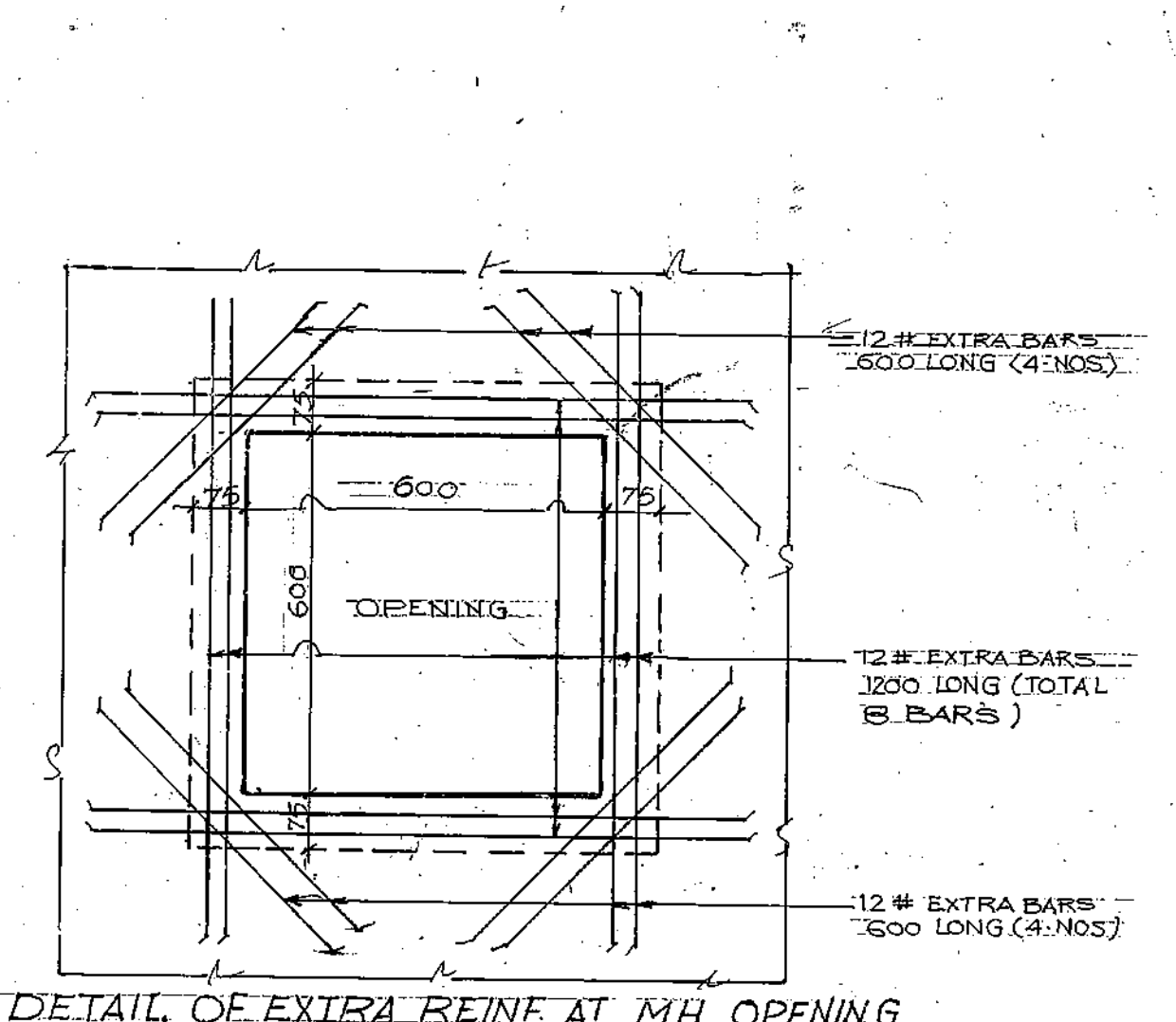
DETAIL OF BAFLE WALL/SCUM BOARD



DETAIL OF MH COVER



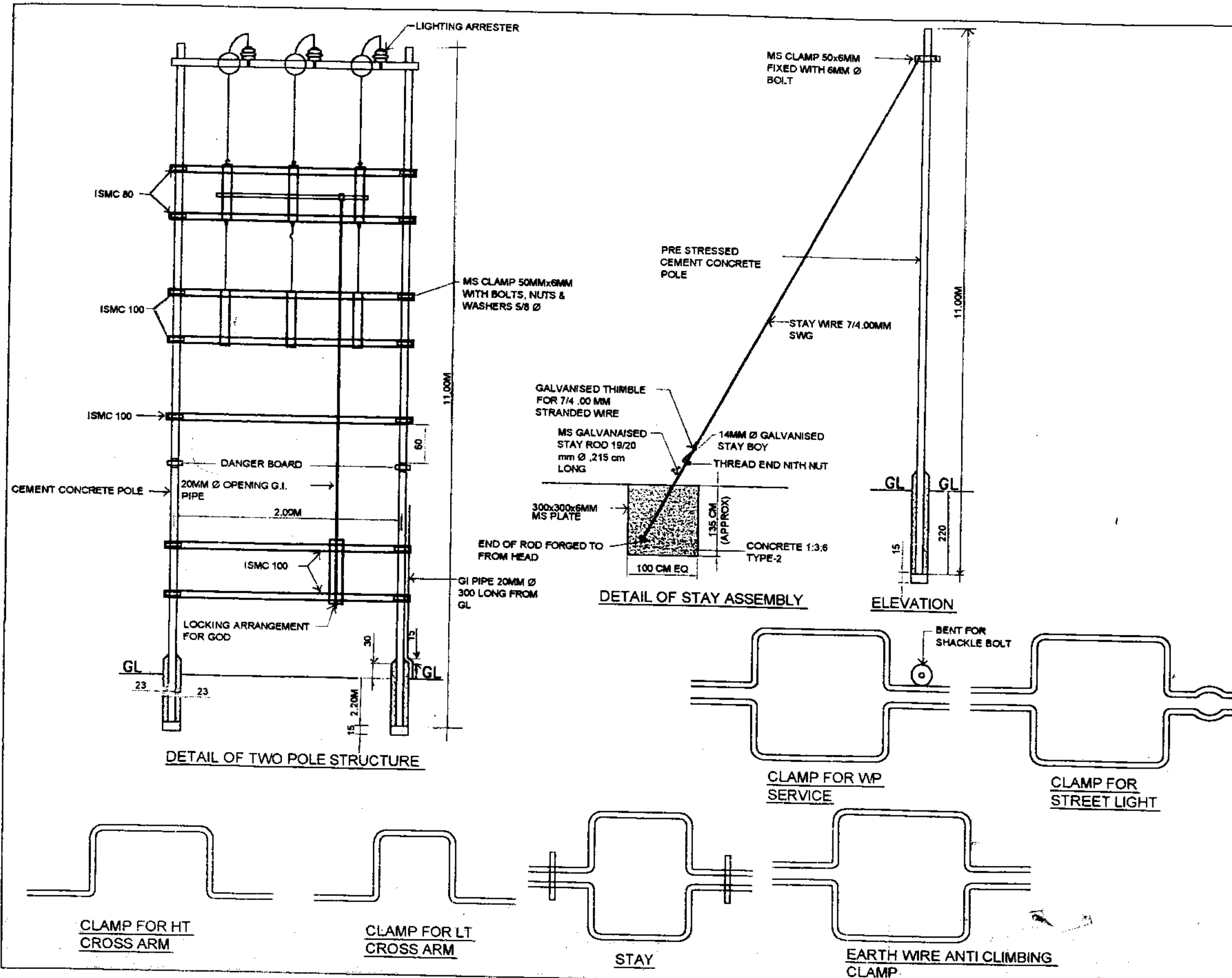
DETAIL OF DEFLECTOR



DETAIL OF EXTRA REIN AT MH OPENING


6	IN SEC. 'X-X' & 'Z-Z' :- TWL 300 AMENDED TO 600.	} <i>Am</i>	
5	IN SEC. AT 'X-X', SEC. AT 'P-P' & SEC. 'Z-Z' :- AMENDED TO 600. CORRECTED AS PER REVISION NO.1		
4	IN PLAN OF SEPTIC TANK CORRECTED AS PER REVISION NO.1		
3	16/6/10 DETAIL OF DEFLECTOR IS VOID		
2	02/01/09 IN NOTE NO 5 - M:20 AMENDED TO M:25	} <i>sd-xxx</i>	
1	06/05/05 1) PLAN OF SEPTIC TANK FOR USERS 200 & 300 USERS AMENDED AS 200 TO 500 USERS 2) IN SIZES OF SEPTIC TANKS FOR 301 TO 500 USERS, ADDED.		
#	DATE	DESCRIPTION	INITIAL
REVISIONS			
DETAILS OF SEPTIC TANK BRICK/PCC CONSTRUCTION			
DATE	19-8-2002	CHIEF ENGINEER	S.H.N.
DRN.	SC SHARMA	JAIPUR ZONE	1/1
TCD		JAIPUR	
SCALE	N A	DRG NO. CEJZ/2002/TO/S-2	
Sd-xxx		Sd-xxx	
(D-SHEET) EE (SG)		(YS DWIVED) EE	
30-2 DESIGN		30-1 DESIGN	
		FOR CHIEF ENGINEER	

TD/2004/01 SHt = 1/4

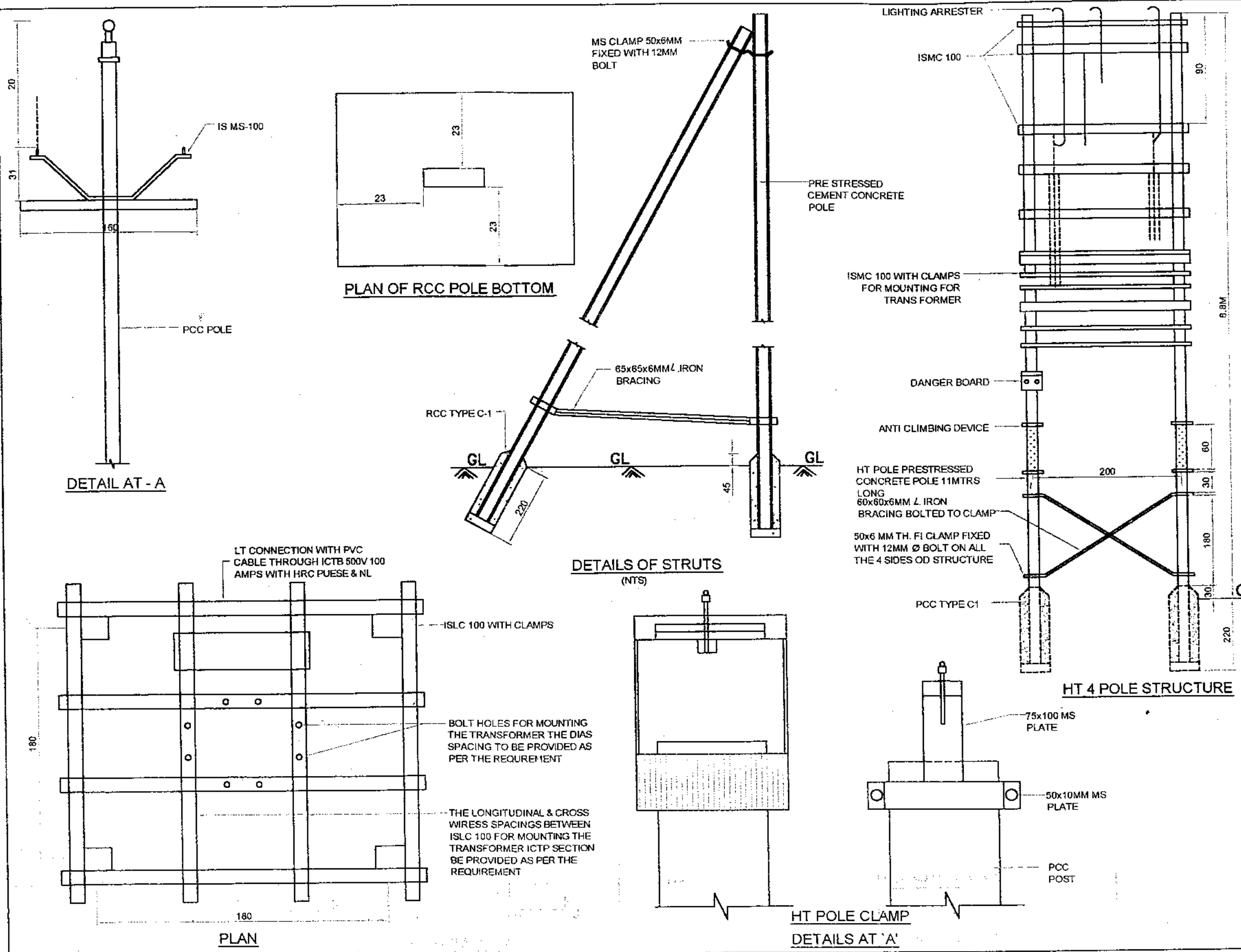


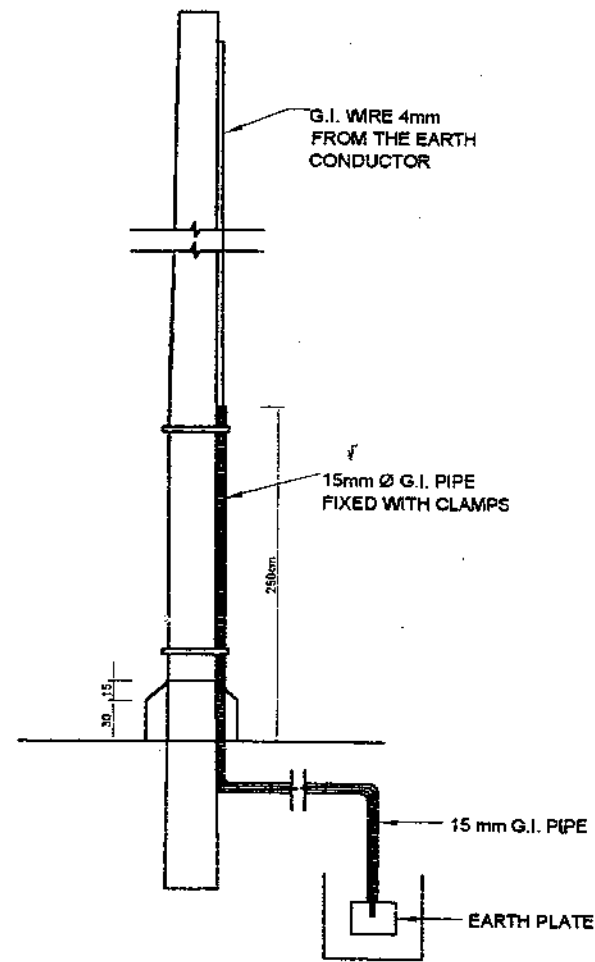
NOTES

- 1 CONTRACTOR TO CHECK & VERIFY ALL DIMENSIONS BEFORE TAKING EXECUTION IN HAND.
- 2 FIGURED DIMENSIONS SHALL BE FOLLOWED.
- 3 ALL DIMENSIONS ARE GIVEN IN CENTIMETERS UNLESS OTHERWISE STATED.
- 4 ALL STEEL WORK USED SHALL BE OIL PAINTED.
- 5 DANGER BOARD SHALL BE TIED TO CONCRETE POLE WITH P.I. 25X3 mm AND 6 mm Ø BOLT, NUT AND WASHER.
- 6 3MM TH. WASHER TO BE USED IN ALL THE PLACES.
- 7 'P' IS THE SIZE OF THE POLE AS PER SCH. 'A'.
- 8 CLAMPS FOR STREET LIGHT FITTING SHALL BE OF MS FLAT 40MMX6MM & BOLTS, NUTS SHALL NOT BE LESS THEN 12MM Ø.
- 9 CLAMPS FOR CRC SS ARM EARTH WIRE STAY AND WP SERVICE INSULATOR SHALL BE OF MS FLAT 50MMX6MM AND BOLTS, NUTS SHALL NOT BE LESS THAN 16MM Ø.
- 10 IN CASE OF ROCK STRATA HARD STRATA PEG IN FOUNDATION SHALL BE PROVIDED.
- 11 THIS DRAWING IS BASED ON TD/74.

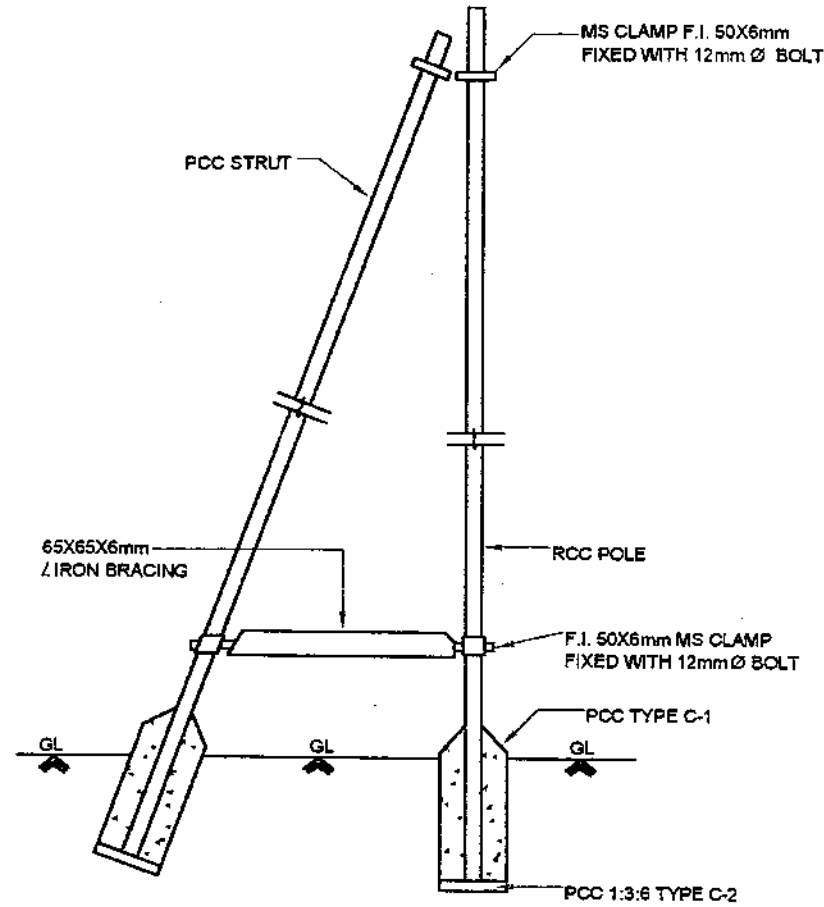
1	REVISED	NOTE NO. 10 DELETED
SND DATE	DESCRIPTION	
REVISION		
HT POLE STRUCTURE / STAY ASSEMBLY DATA		
DATE	08-04-04	SHIT
DRN		CHIEF ENGINEER JAIPIR ZONE JAIPIR
TCD		
CKD		
SCALE		
		DRG. NO. TD/2004/01
ADDL. ASST. DIR (ARCH)		
ST. DIRECTOR (ARCH)		
		DIRE FOR CH

TD/2004/01

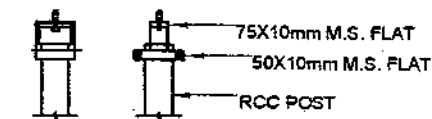
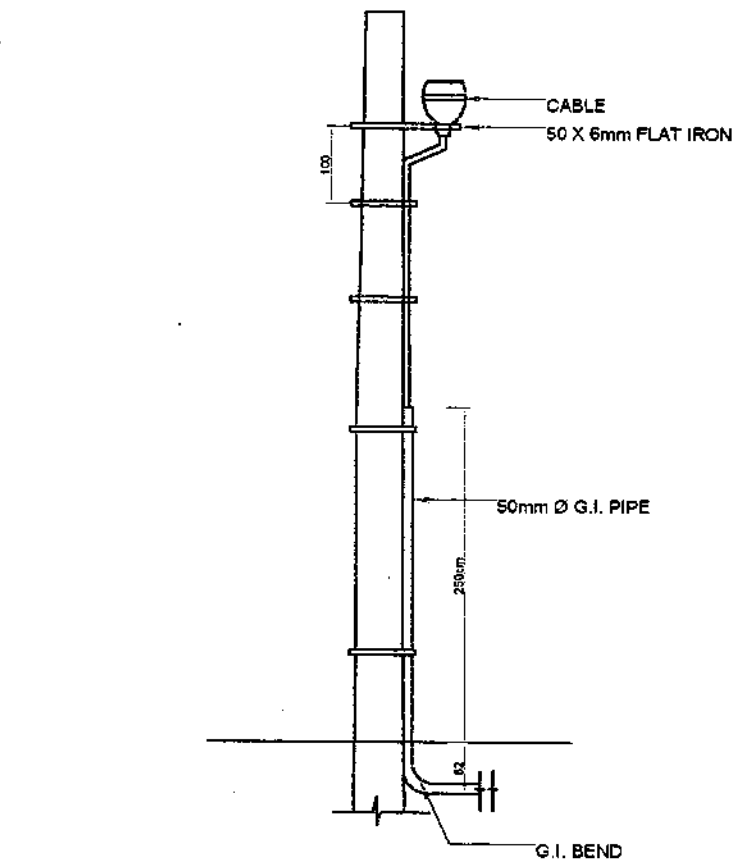




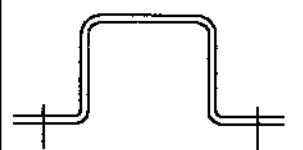
DETAIL OF FIXING GI PIPE FOR
COPPER EARTH



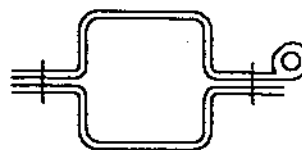
DETAIL OF STRUT



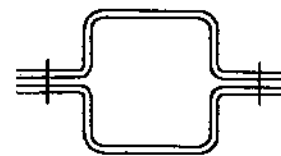
HT/LT POLE CLAMP
DETAIL AT A



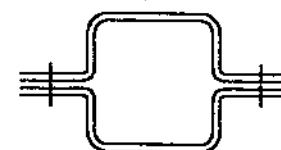
CLAMP FOR HT
CROSS ARM



CLAMP FOR WP
SERVICE SHAKLE



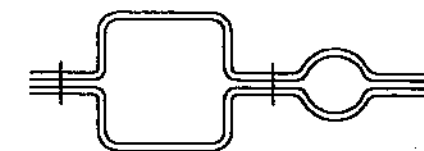
STAY CLAMP



EARTH WIRE/ANTI
CLIMBING



CLAMP FOR LT
CROSS ARM



CLAMP FOR
STREET LIGHT

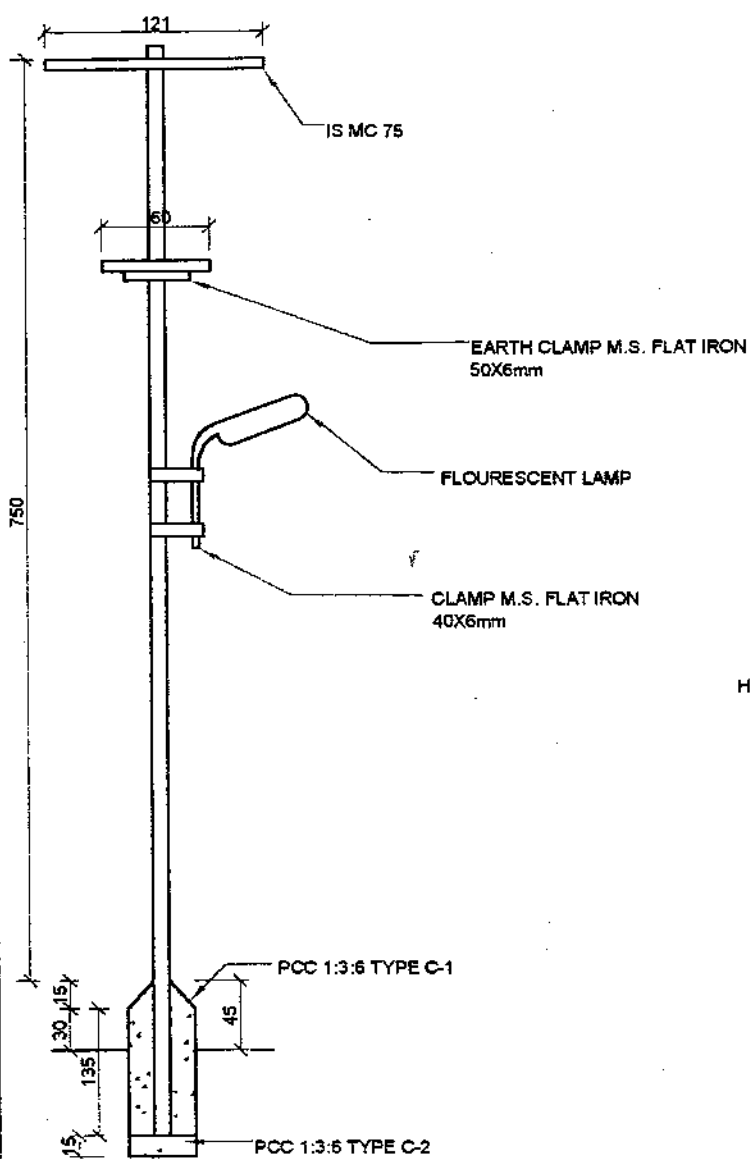
NOTES

- 1 FOR NOTES REFER SHEET 1/4 OF THIS DRG.

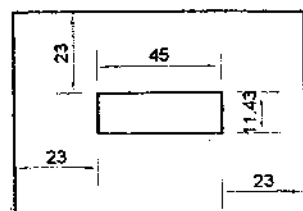
LT POLE STRUCTURE AND STAY ASSEMBLY DETAIL

DATE	08-04-04	CHIEF ENGINEER JAIPUR ZONE JAIPUR	SHEET No.
DRN.			3/4
TCD.			
CKD.			
SCALE		DRG. NO. TD/2004/01	

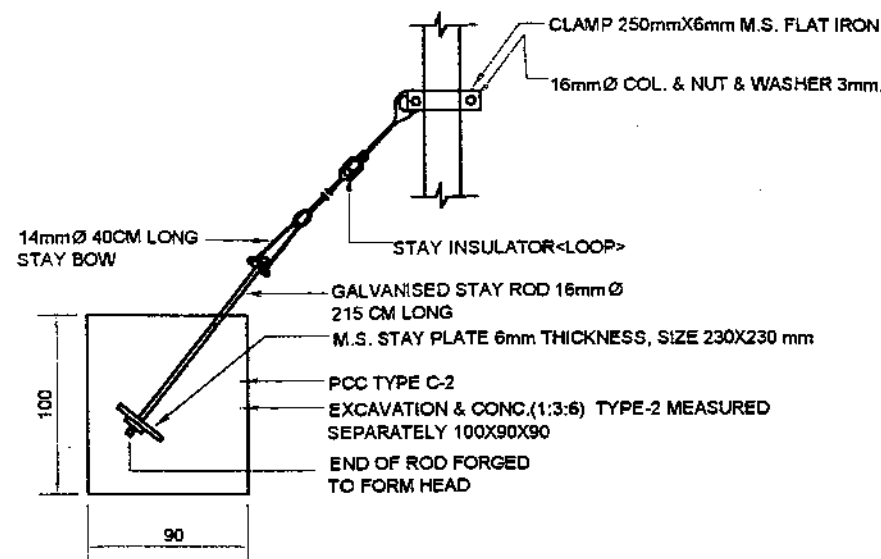
ADDL. ASST. DIR. (ARCH)	DIRECTOR (ARCH) FOR CHIEF ENGINEER
JT. DIRECTOR (ARCH)	



SECTION LT POLE ASSEMBLY

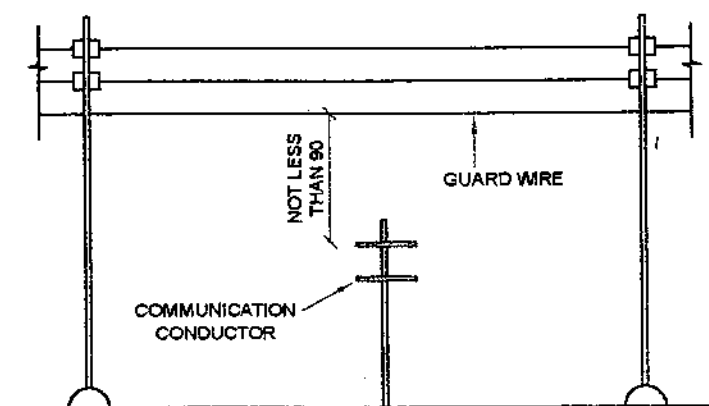


PLAN RCC POLE AT BOTTOM

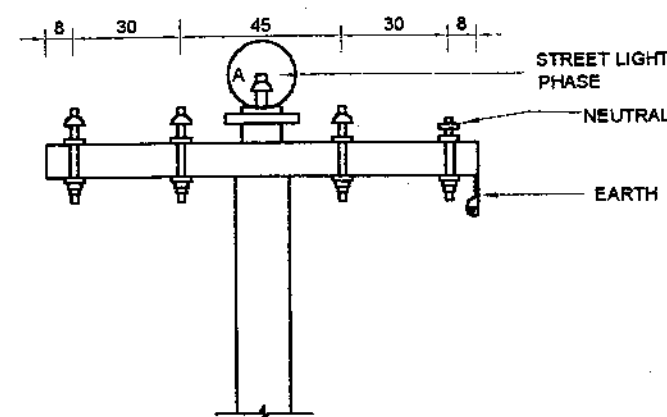


STAY ASSEMBLY

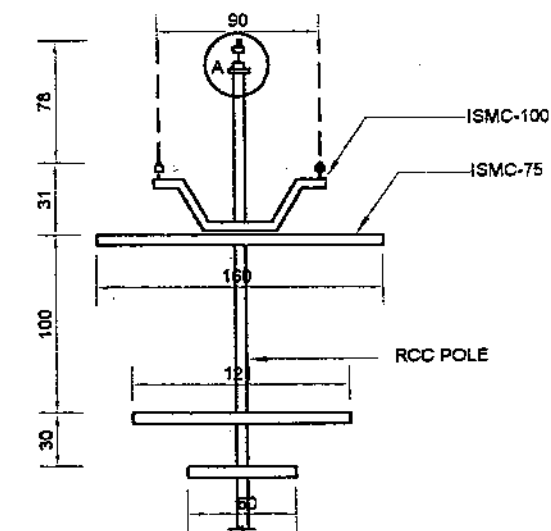
HEIGHT OF POLES AT CROSSING SHOULD SUIT THE MINIMUM 90 CM BETWEEN POWER & COMMUNICATION CONDUCTOR OR POWER CONDUCTOR



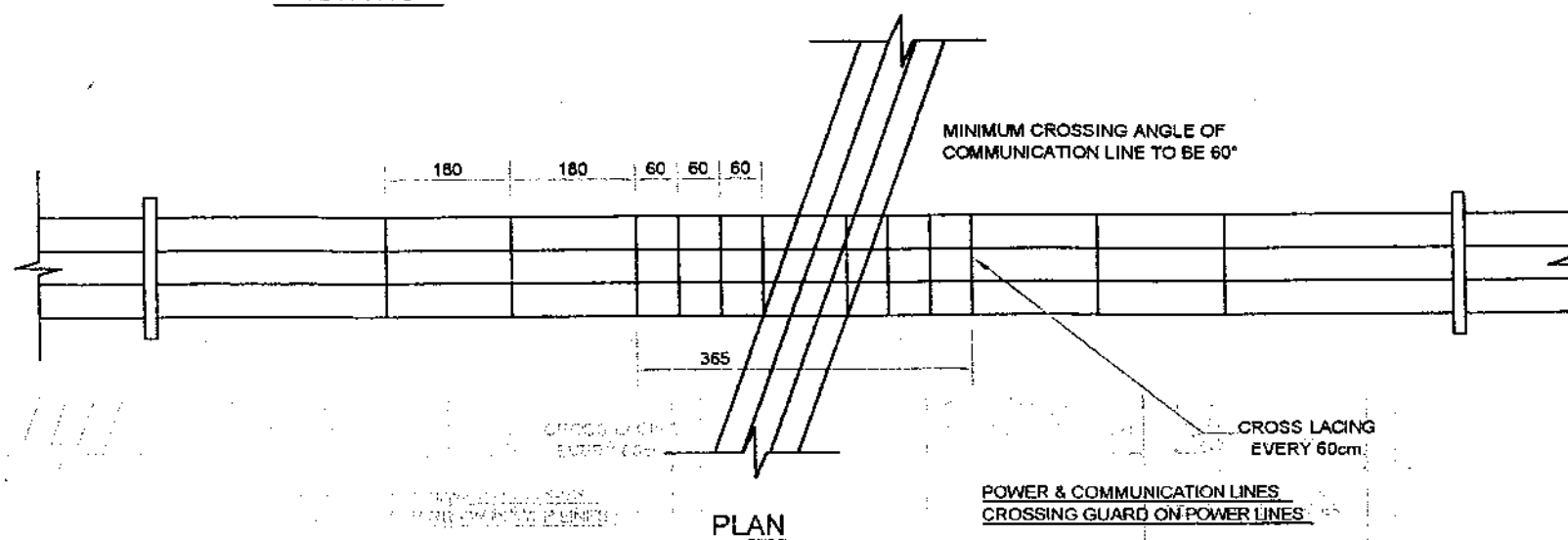
ELEVATION



DETAIL OF THREE PHASE & STREET LIGHT FEEDERS



DETAILS OF HT/LT FEEDER ON SAME POLE



PLAN

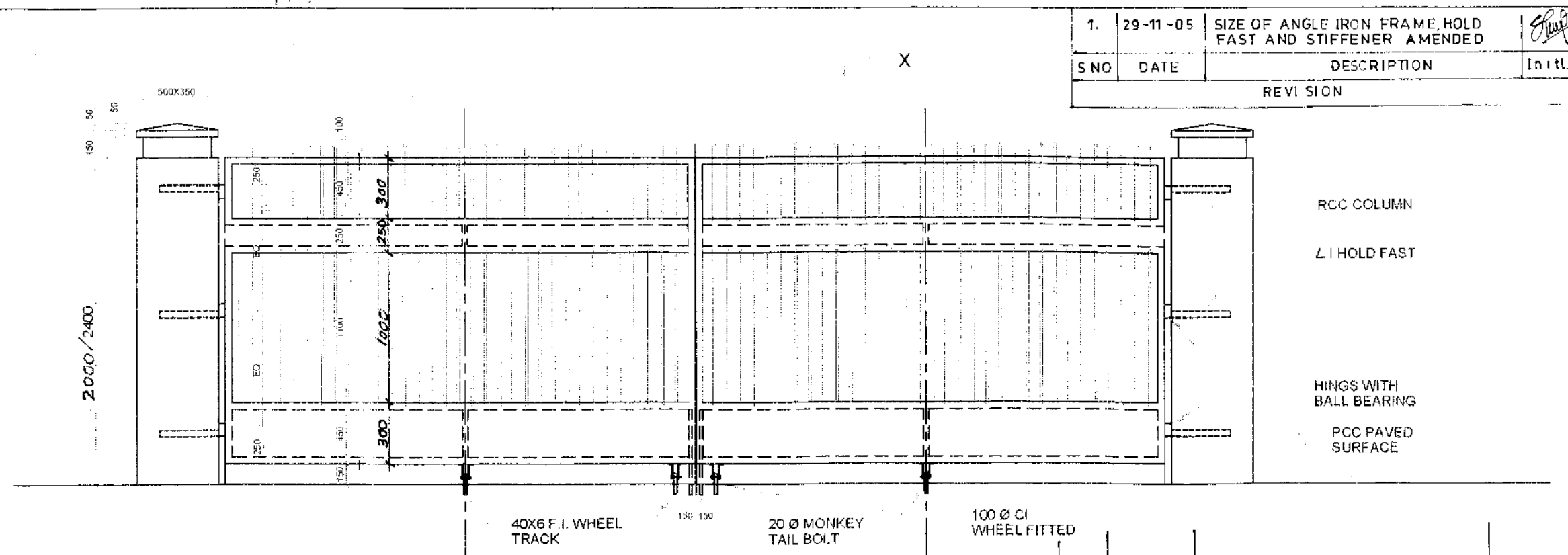
NOTES

- FOR NOTES REFER SHEET 1/4 OF THIS DRG.

LT POLE STRUCTURE AND STAY ASSEMBLY DETAIL

DATE	08-04-04	CHIEF ENGINEER JAIPUR ZONE JAIPUR	SHEET No.
DRN.			4/4
TCD.			
CKD.			
SCALE		DRG. NO. TD/2004/01	

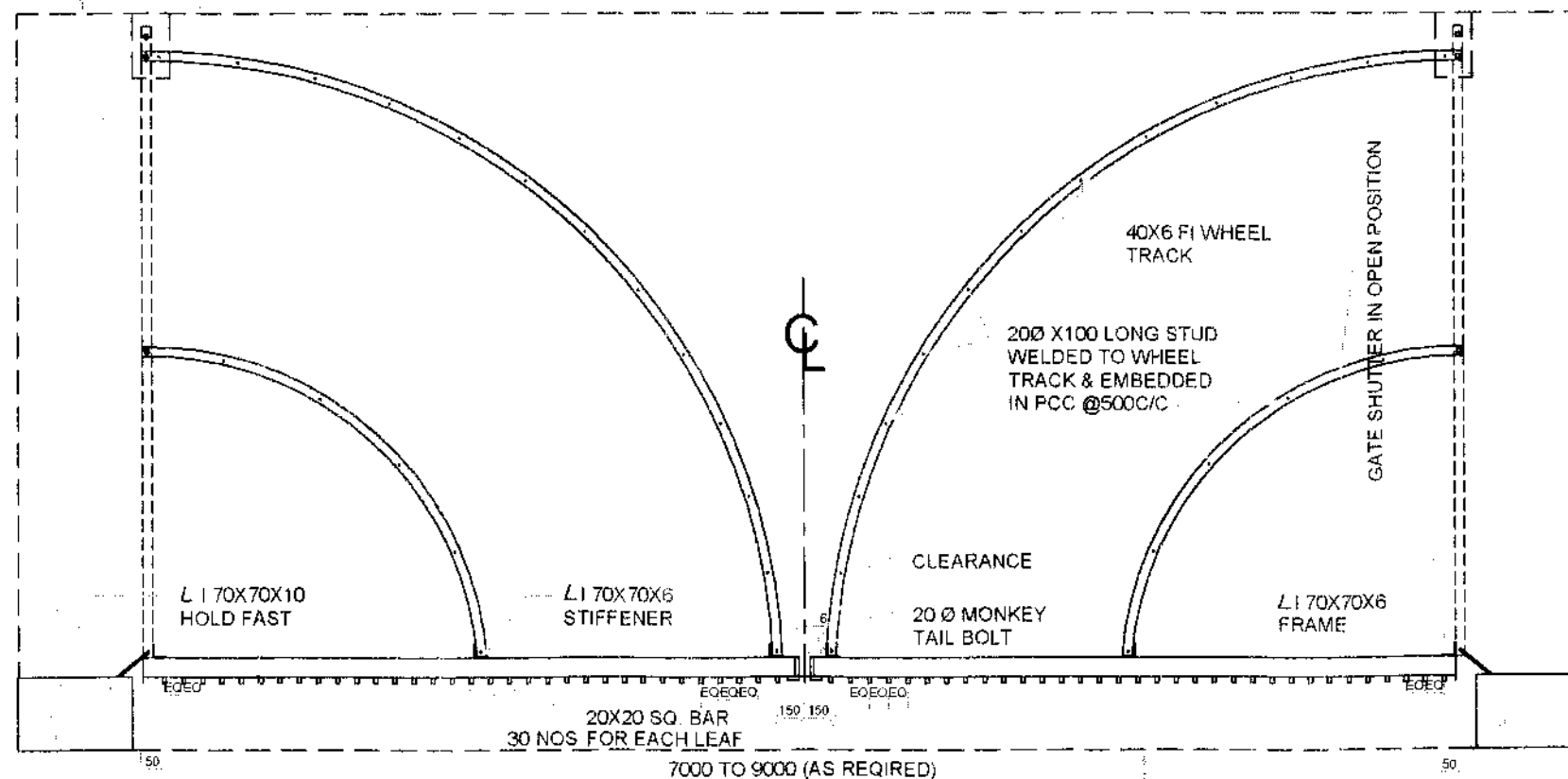
ADDL. ASSTT. DIR.(ARCH)	DIRECTOR (ARCH) FOR CHIEF ENGINEER
JT. DIRECTOR (ARCH)	



ELEVATION

AREA TO BE PAVED WITH 150 TH. PCC OVER 150 TH. HARD CORE

1.	29-11-05	SIZE OF ANGLE IRON FRAME, HOLD FAST AND STIFFENER AMENDED	Initl.
S NO	DATE	DESCRIPTION	INITIAL
REVISION			
2	3/6/11	IN ELEVATION DIMENSIONS FOR GATE HEIGHT 2000 ADDED	Initl.
S.NO.	DATE	DESCRIPTION	INITIAL
REVISIONS			



PLAN

AREA TO BE PAVED WITH 150 TH PCC OVER 150 TH. HARD CORE

NOTES

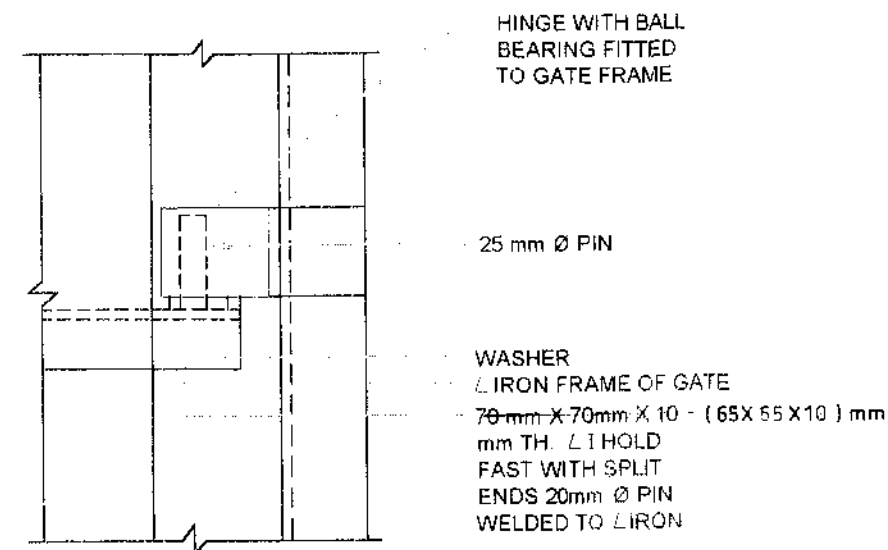
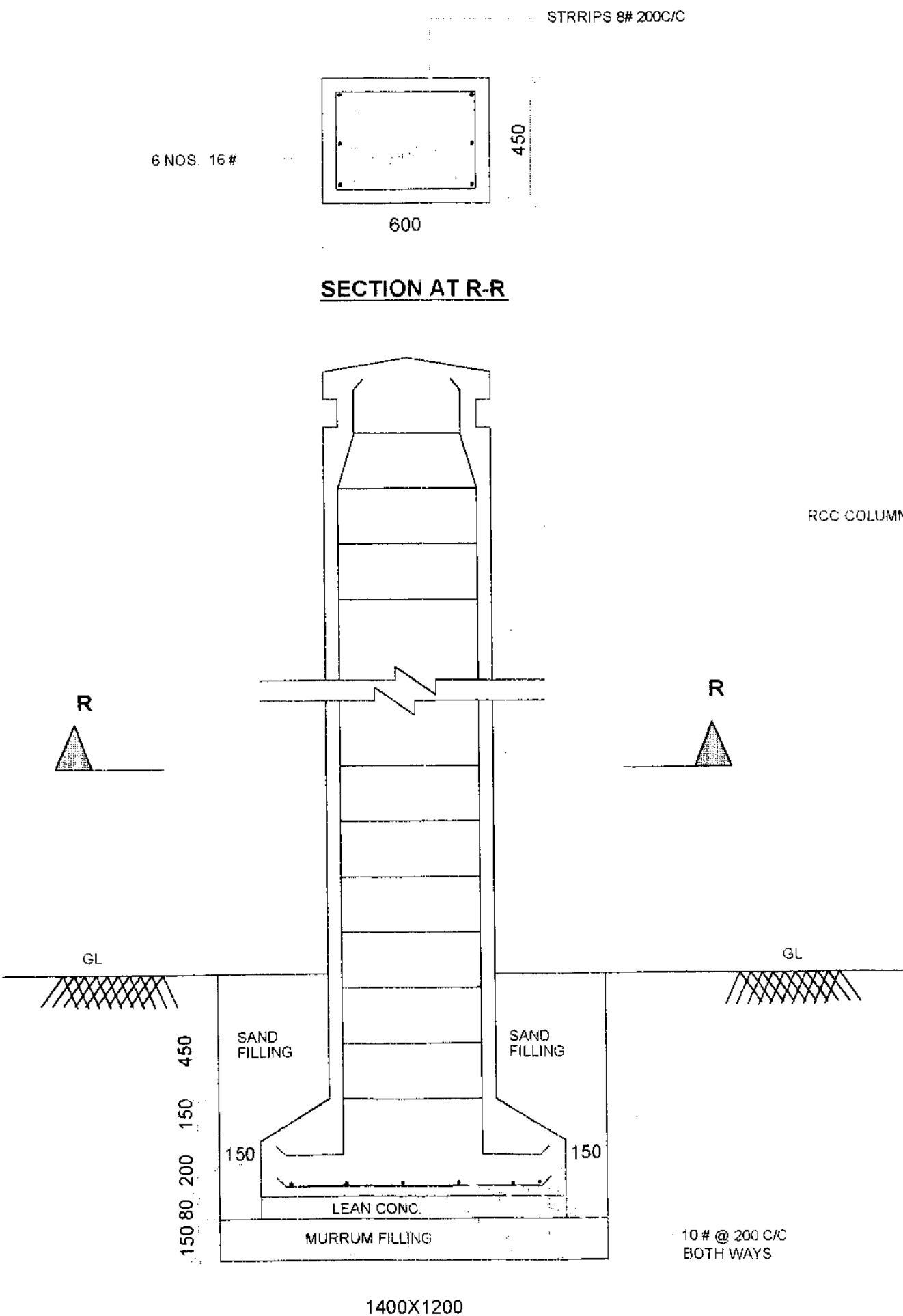
- CONTRACTOR TO CHECK & VERIFY ALL DIMENSIONS BEFORE TAKING EXECUTION IN HAND.
- FIGURED DIMENSIONS SHALL BE FOLLOWED.
- ALL DIMENSIONS ARE GIVEN IN MM UNLESS OTHERWISE STATED.
- EXECUTIVE AUTHORITY SHALL CHECK THIS DRG. BEFORE TAKING EXECUTION IN HAND.
- ALL STEEL WORK SHALL BE FINISHED WITH SYNTHETIC ENAMEL PAINT OF THE REQUIRED SHADE AS DIRECTED BY ENGINEER IN CHARGE.
- ALL JOINTS ARE WELDED WITH 6mm FILLET WELD.
- RCC COL. SHALL BE FINISHED WITH CEMENT BASE PAINT.
- L1 HOLD FAST OF THE GATE SHALL BE PLACED IN POSITION WHILE CASTING THE RCC COLUMN.
- PCC PAVED SURFACE SHALL BE 50mm ABOVE RIDGE LEVEL OF THE ROAD.
- PCC PAVING AND WHEEL TRACK SHALL BE IN TRUE HORIZONTAL LEVEL.
- COVERED BALL BEARING TO WHEELS AND HINGES SHALL BE FITTED AS PER MANUFACTURERS DETAIL APPROVED BY THE ENGR. IN CHARGE.
- 6 mm Ø 200 mm LONG MS NIBS SHALL BE PROVIDED TO PILLARS OF THE GATES IN CONFIRMITY WITH THE BARBED WIRE FENCING WHERE REQUIRED.
- MOORUM FILLING SHALL ONLY BE PROVIDED WHERE BLACK COTTON SOIL STRATA MET AT SITE.
- THIS DRAWING IS BASED ON TD/532

**STEEL GATE
(7000 mm TO 9000 mm WIDE)**

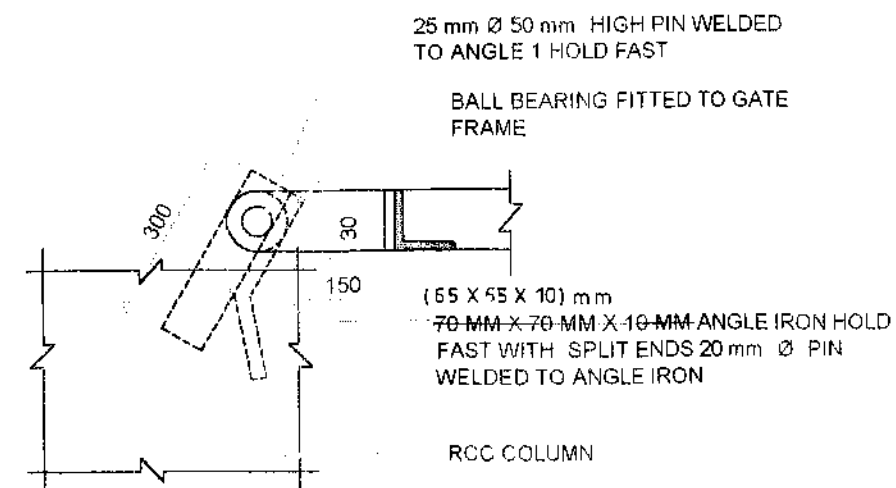
PLAN AND ELEVATION

DATE	08-04-04	CHIEF ENGINEER JAIPUR ZONE JAIPUR	SHEET No.
DRN.			1/4
TCD.			
CKD.			
SCALE		DRG. NO. TD/2004/14	

ADDL. ASST. DIR. (ARCH)	DIRECTOR (ARCH) FOR CHIEF ENGINEER
JT. DIR. (ARCH)	



ELEVATION



PLAN

**DETAIL AT-A
(FIXING OF HOLD FAST PINTOL HINGE)**

NOTES

- FOR NOTES REFER SHT. NO. 1/4 OF THIS DRG.

1.	29-11-05	SIZE OF HOLD FAST AMENDED	<i>Shuf</i>
S No	Date	Description	Inttl.

REV

**STEEL GATE
(7000 mm TO 9000 mm WIDE)**

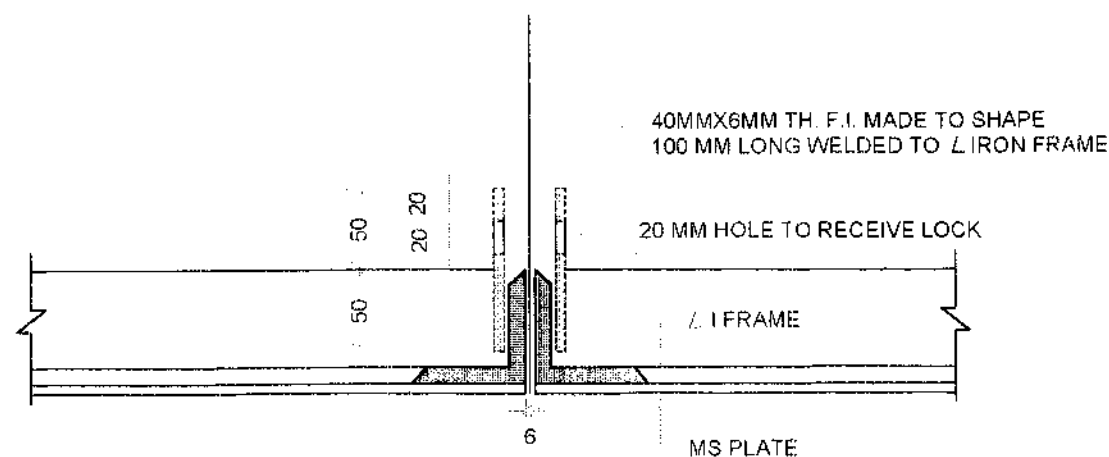
DETAILS

DATE	08-04-04	CHIEF ENGINEER JAIPUR ZONE JAIPUR	SHEET No. 3/4
DRN.			
TCD.			
CKD.			
SCALE		DRG. NO. TD/2004/14	

<i>Gas</i> ADDL. ASST. DIR. (ARCH)	<i>H</i> DIRECTOR (ARCH) FOR CHIEF ENGINEER
JT. DIR. (ARCH)	

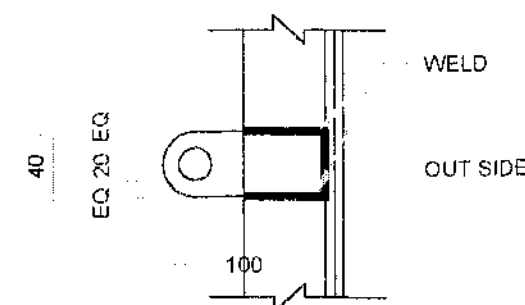
NOTES

1 FOR NOTES REFER SHT. NO. 1/4 OF THIS DRG.

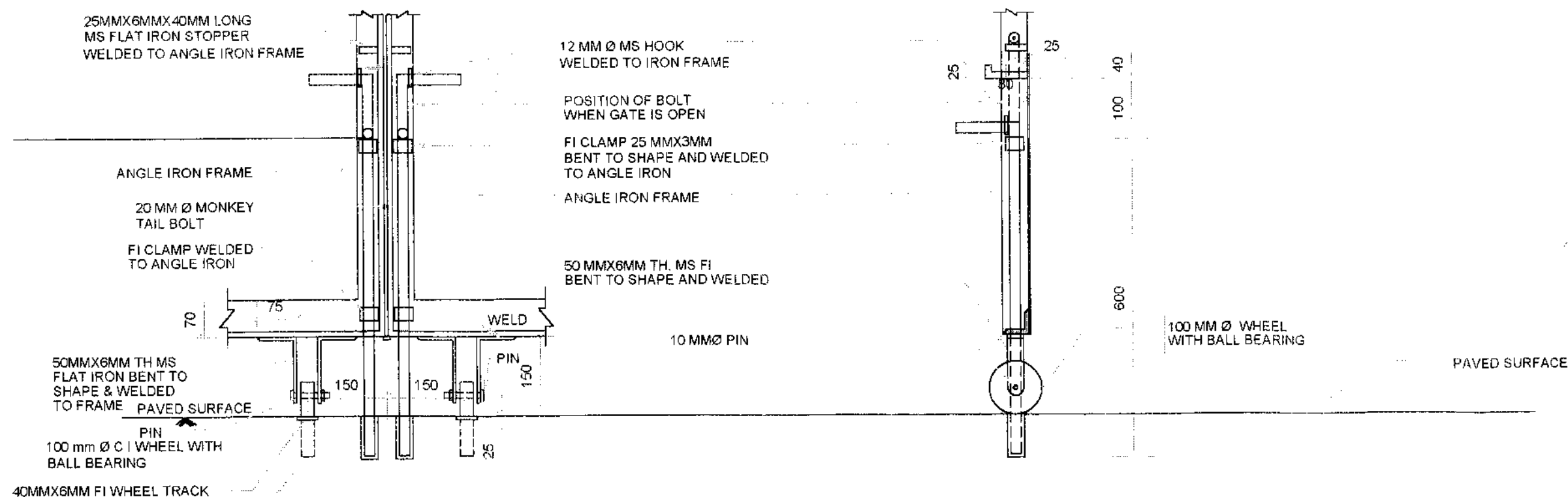


PLAN

DETAILS OF LOCKING ARRANGEMENT



SIDE ELEVATION



ELEVATION (FROM IN SIDE)

DETAIL AT 'B'

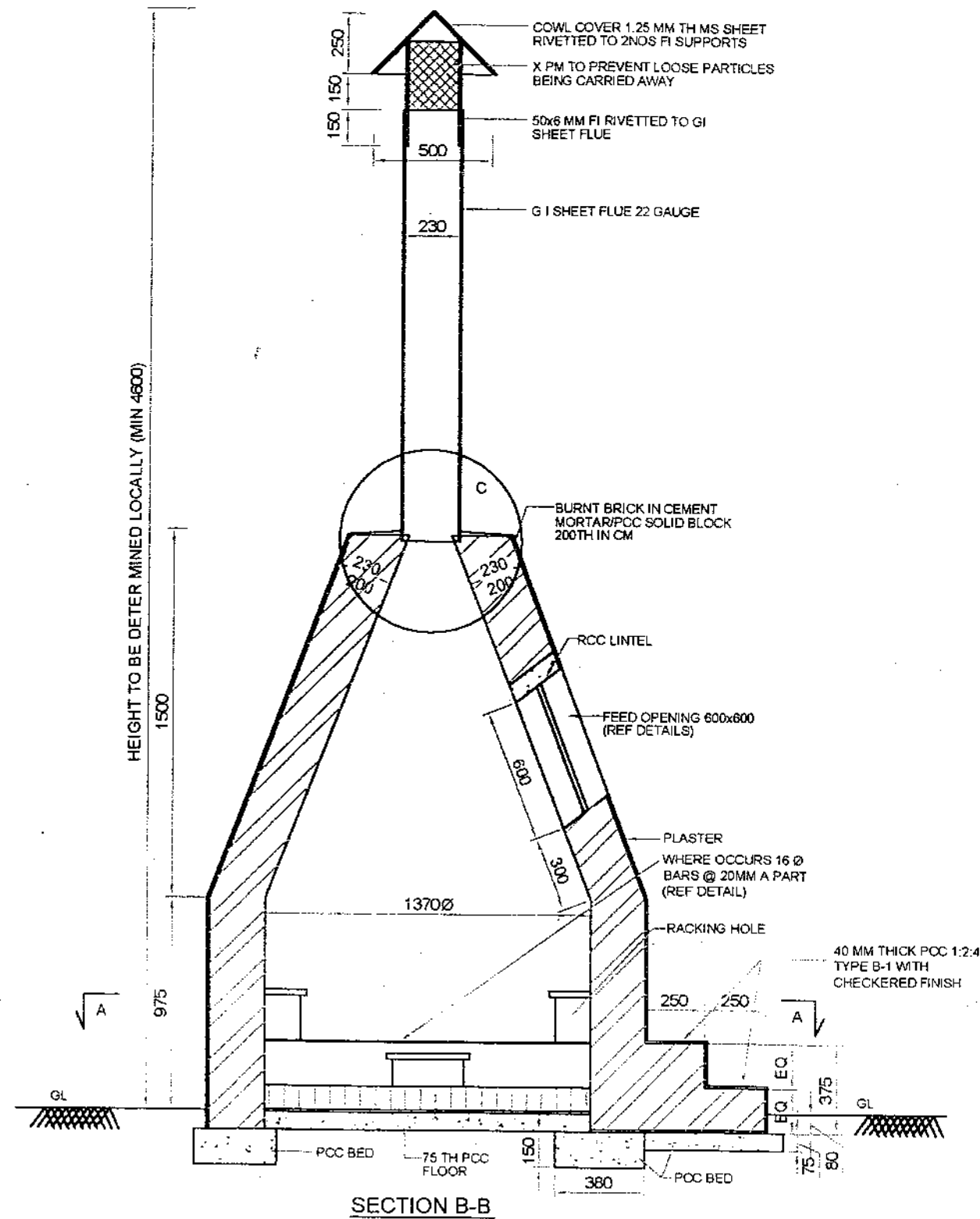
SIDE ELEVATION

STEEL GATE (7000 mm TO 9000 mm WIDE)

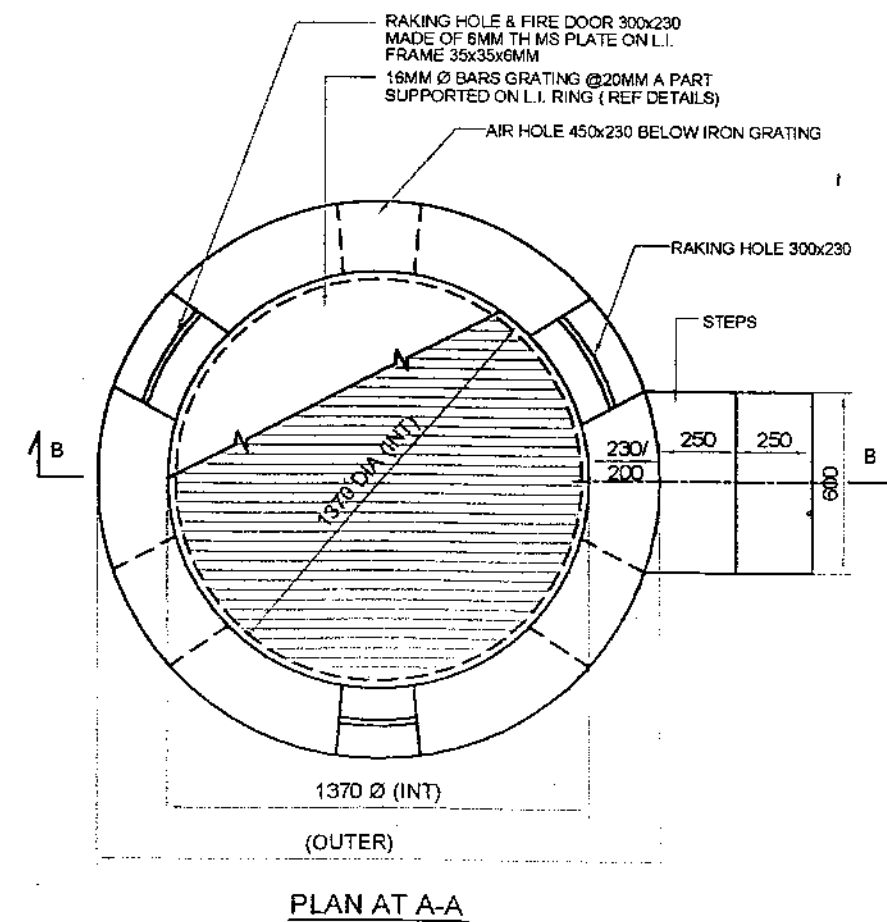
DETAILS

DATE	08-04-04	CHIEF ENGINEER JAIPUR ZONE JAIPUR	SHEET No.
DRN.			4/4
TCD.			
CKD.			
SCALE		ORG. NO. TD/2004/14	

ADDL. ASSTT. DIR. (ARCH)	DIRECTOR (ARCH) FOR CHIEF ENGINEER
JT. DIR. (ARCH)	



SECTION B-B



PLAN AT A-A

NOTES

- 1 CONTRACTOR TO CHECK & VERIFY ALL DIMENSIONS BEFORE TAKING EXECUTION OF THE WORK.
- 2 DIMENSIONS GIVEN ARE IN MILLIMETRES UNLESS OTHERWISE STATED
- 3 FIGURED DIMENSIONSSHALL BEFOLLOWED.
- 4 EXECUTIVE AUTHORITY TO CHECK THIS DRG. BEFORE EXECUTION OF WORK.
- 5 THIS DRAWING IS BASED ON TD/557.
- 6 IN CASE OF B. AND COTTON SOIL 150 TH. HARD CORE FILLING SHALL BE DONE BELOW POC FLOORING AND POC BED. A LAYER OF MOONHILL 300TH. SHALL BE LAID BELOW HARD CORE AND AROUND UP TO GL.

1-4-9 NOTE NO-6
ADDED TO
SL. No. DATE DESIGNED (INIT.)
REVISIONS

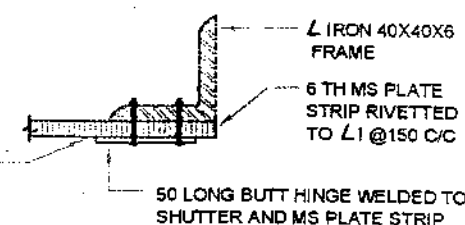
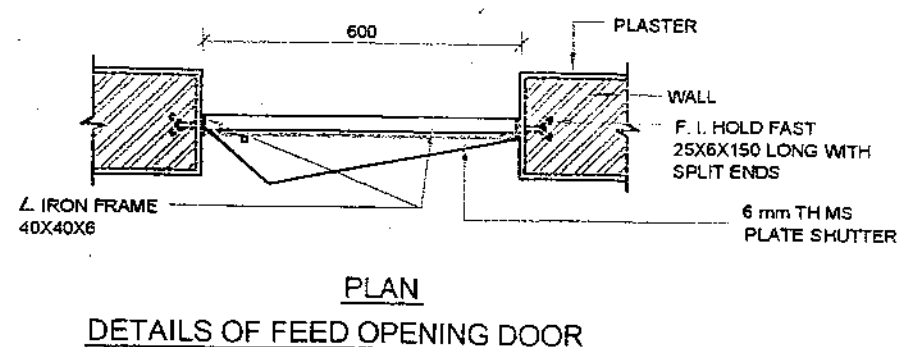
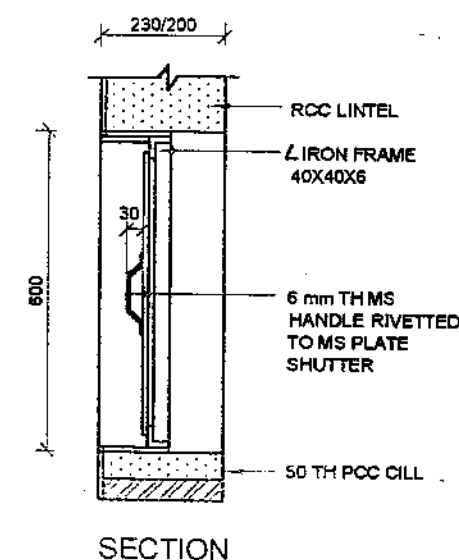
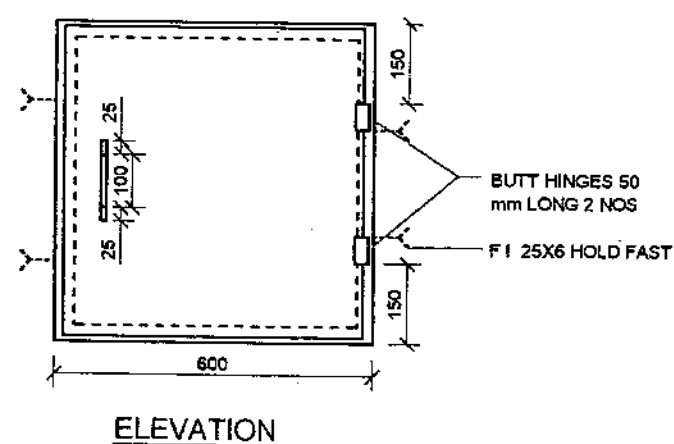
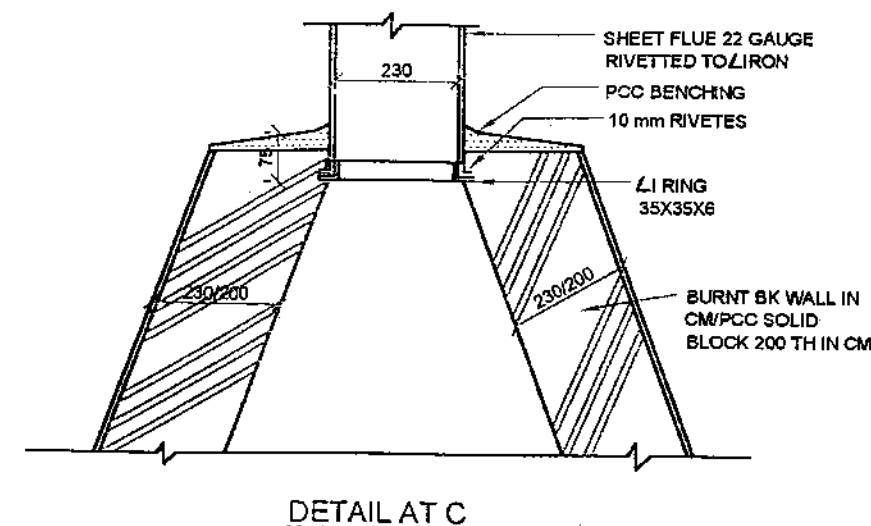
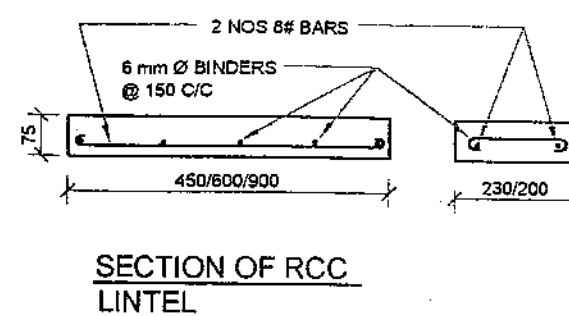
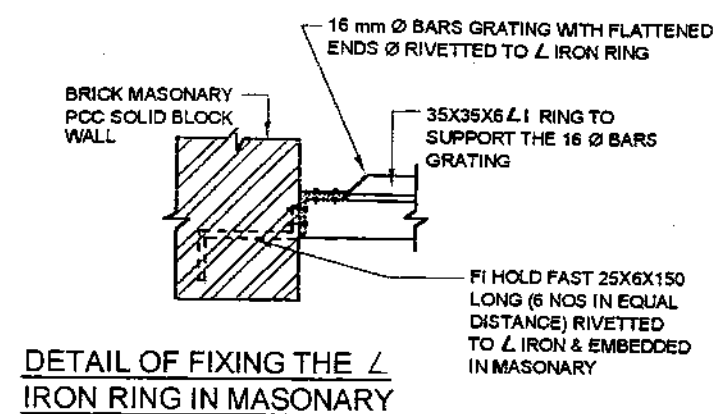
DETAILS OF INCINERATOR

DATE	08-04-04		SHEET No.
DRN.		CHIEF ENGINEER JAIPUR ZONE JAIPUR	1/2
TCD.			
CKD.			
SCALE		DRG. NO. TD/2004/22	

ADDL. ASST. DIR. (ARCH)
DIRECTOR (ARCH)
FOR CHIEF ENGINEER
JT. DIRECTOR (ARCH)

NOTES

1 FOR NOTES REFER SHT. NO. 1/2 OF THIS DRG.



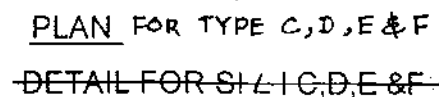
DETAILS OF INCINERATOR

DATE	08-04-04	CHIEF ENGINEER JAIPUR ZONE JAIPUR	SHEET No. 2/2
DRN.			
TCD.			
CKD.			
SCALE		DRG. NO. TD/2004/22	



ADDL. ASSTT. DIR. (ARCH)

JT. DIRECTOR (ARCH)

DIRECTOR (ARCH)
FOR CHIEF ENGINEER



- 1 CONTRACTOR TO CHECK & VERIFY ALL DIMENSIONS BEFORE TAKING EXECUTION OF THE WORK.
- 2 FIGURED DIMENTIONS SHALL BE FOLLOWED.
- 3 ALL DIMENSIONS ARE GIVEN IN mm. UNLESS OTHERWISE STATED.
- 4 ALTHOUGH TYPICAL DETAILS HAVE BEEN SHOWN FOR BRICK MASONRY VALVE PITS, THE SAME ARE EQUALLY APPLICABLE TO STONE MASONRY VALVE PITS DIMENSIONS SHOWN IN BRACKETS ARE FOR STONE MASONRY VALVE PITS.
- 5 THE VALVE PITS IS PRIMARILY TO ACCOMMODATE THE STOP COCK OR SLUICE VALVE & DIE FITTING DETAILS REQUIRED FOR INSERTING THE SAME IN PIPE LINE TO PIPE JOINTS SHALL NOT BE LOCATED WITH IN THE VALVE PITS WITH IN 1:5 METER FROM THE FOUNDATION OF THE VALVE PIT.
- 6 IN CASE OF VALVE A SUITABLE DETACH-ABLE UNION SHALL BE PROVIDED WITH THE PIT FOR REMOVAL OF STOP COCK/ GATE VALVE DURING REPAIRS.
- 7 THIS DRG. IS BASED ON TD-573.

1	04/04/20	CORRECTED UP TO DATE	FAH
SNO	DATE	DISCRIPTION	INITIAL
REVISION			
TYPICAL DETAIL OF VALVE PIT PLAN & SECTION AT 'A-A'			
DATE	08-04-04	CHIEF ENGINEER JAIPUR ZONE JAIPUR	SHEET No. 1/3
DRN.			
TCD.			
CKD.			
SCALE		DRG. No. TD/2004/26	
 ADDL. ASSTT. DIR. (ARCH)		 DIRECTOR (ARCH) FOR CHIEF ENGINEER	
JT. DIRECTOR (ARCH)			

∟ I FRAME 50X50X6mm TH. WELDED TO
F150X6mm TH. 150 LONG FIXED WITH 16mm
Ø HD BOLT WITH 100X100X3mm ANCHOR
PLATE.

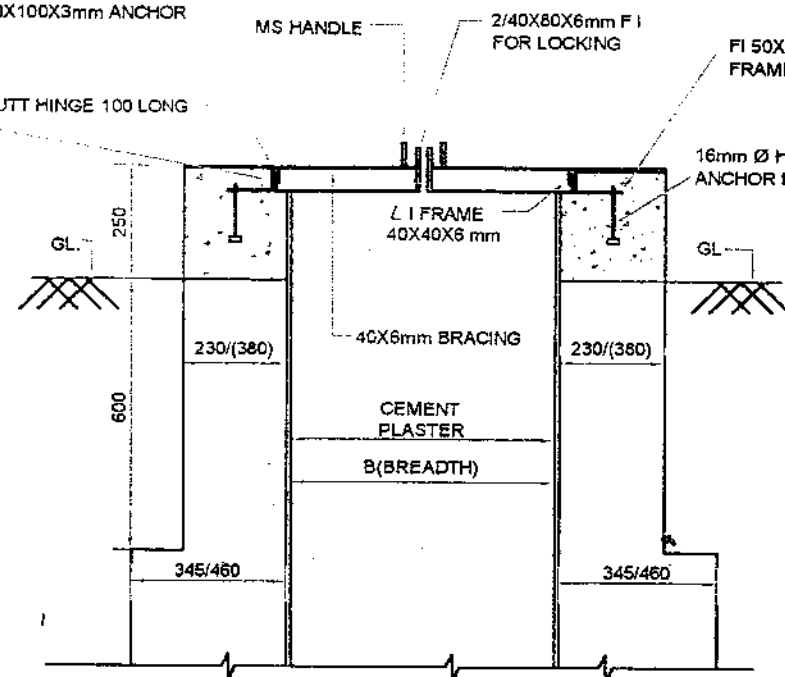
6 Nos. BUTT HINGE 100 LONG

MS HANDLE

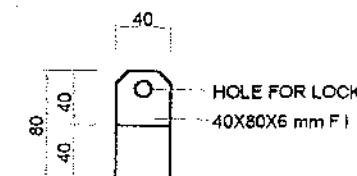
2/40X80X6mm F.I.
FOR LOCKING

F1 50X6mm BENT TO SHAPE WELDED TO ∟ I
FRAME FIXED WITH 16mm Ø HD BOLT.

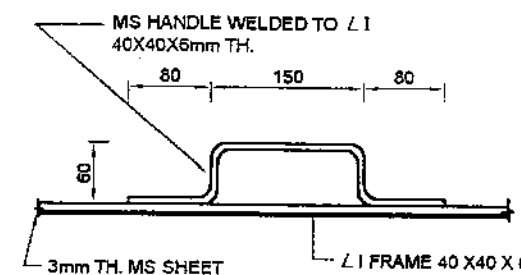
16mm Ø HD BOLT WITH 100X100X3mm TH.
ANCHOR PLATE EMBEDDED IN PCC



SECTION AT 'B-B'



DETAIL OF LOCKING



DETAIL OF HANDLE

SCHEDULE OF VALVE PIT

SL.No.	TYPE	L(LENGTH)	B(BREADTH)	D(DEPTH)	REMARKS
1	A	380	380	450	FOR 15, 20 & 25 mm Ø STOP COCKS GATE VALVE.
2	B	450	450	600	FOR 40 & 50 mm Ø STOP COCKS GATE VALVES
3	C	900	600	1000	FOR 80 & 100 mm Ø SLUICE/ REFLUX VALVES.
4	D	1050	750	1000	FOR 150 & 200 mm Ø SLUICE/ REFLUX VALVES.
5	E	1350	1000	1200	FOR 250 & 300 mm Ø SLUICE/ REFLUX VALVES.
6	F	2000	2000	2000	FOR 400 mm Ø SLUICE / REFLUX

NOTES

1 FOR NOTES REFER SHT. NO. 1/3
OF THIS DRG.

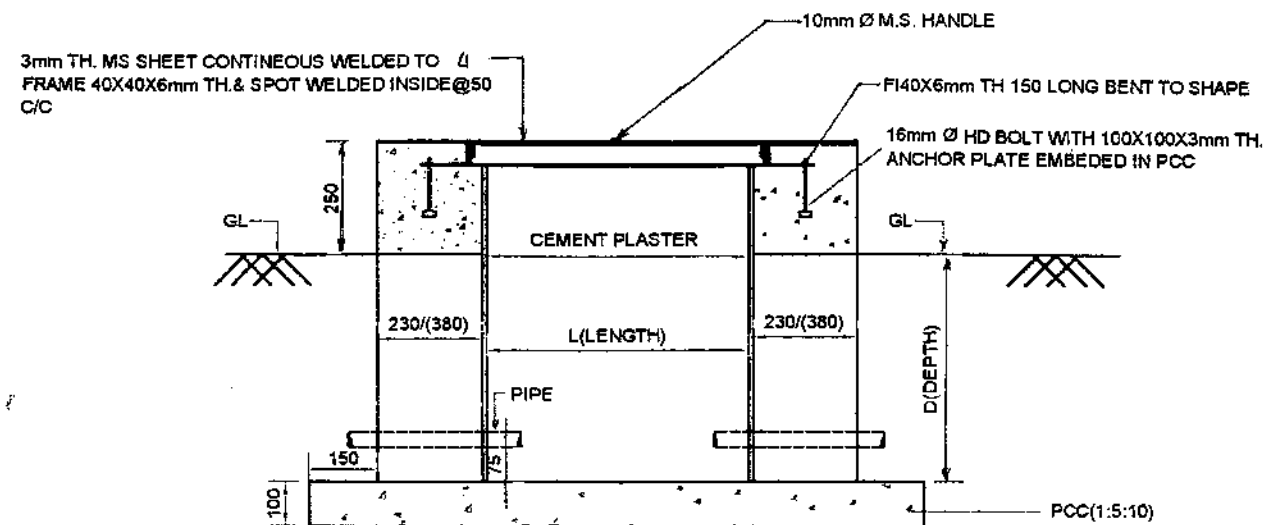
TYPICAL DETAIL OF
VALVE PIT SEC. AT 'BB'
DETAILS & SHEDULE

DATE	08-04-04	SHEET No.
DRN.		2/3
TCD.		
CKD.		
SCALE		DRG. No. TD/2004/26

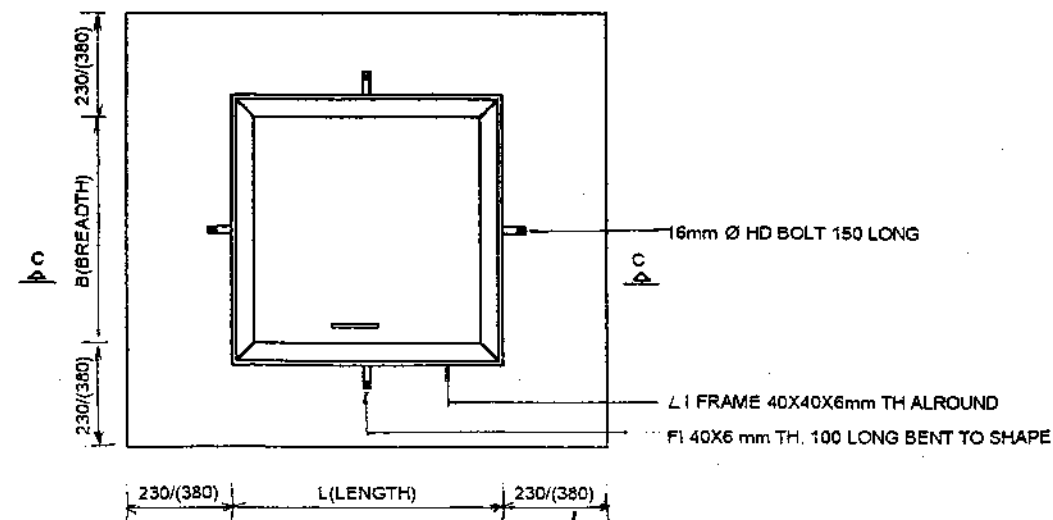
ADDL. ASST. DIR. (ARCH)

JT. DIRECTOR (ARCH)

DIRECTOR (ARCH)
FOR CHIEF ENGINEER



SECTION AT 'CC'



PLAN FOR TYPE A & B

NOTES

- 1 FOR NOTES REFER SHT. NO. 1/3 OF THIS DRG.

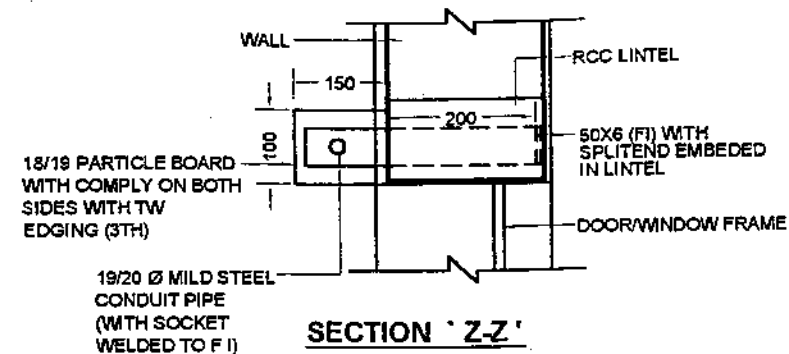
1	08/04/04	CORRECTED UP TO DATE	Final
SNO	DATE	DISCRIPTION	INITIAL

REVISION

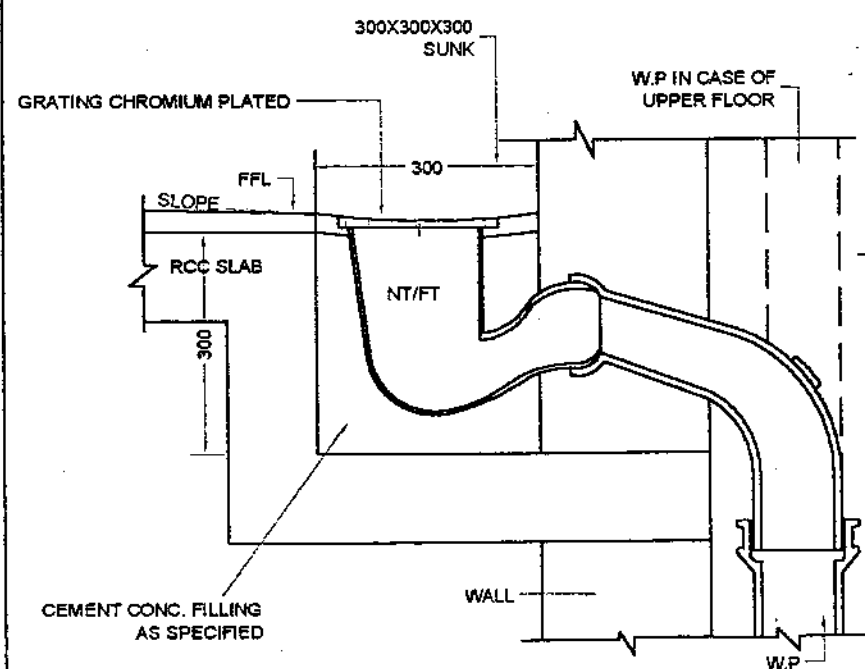
TYPICAL DETAIL OF VALVE PIT PLAN GOR TYPE AB, & SECTION AT CC

DATE	08-04-04	SHEET No.
DRN		CHIEF ENGINEER JAIPUR ZONE JAIPUR
TCD		3/3
CKD		
SCALE		DRG. No. TD/2004/26

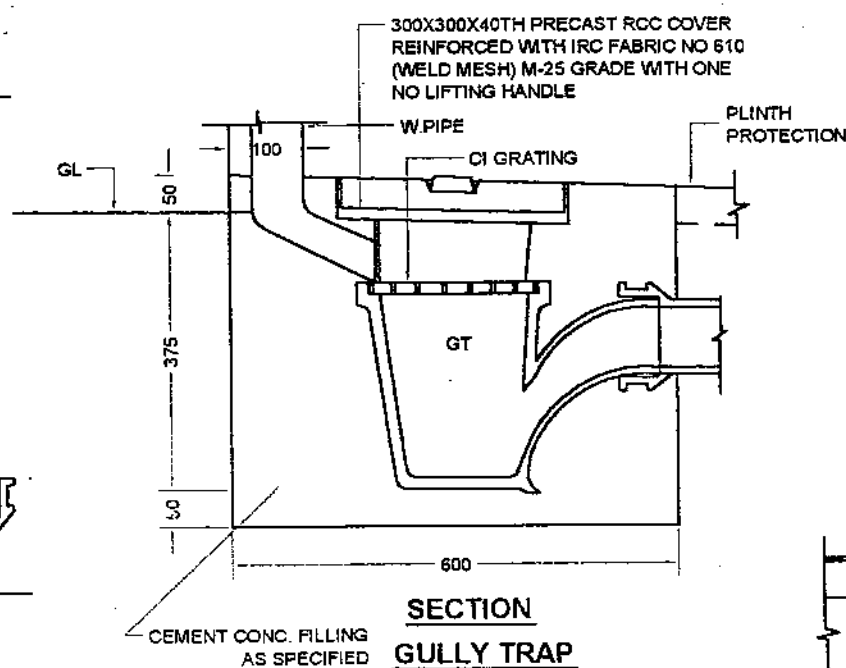
ADDL. ASSTT. DIR. (ARCH)	
JT. DIRECTOR (ARCH)	DIRECTOR (ARCH) FOR CHIEF ENGINEER



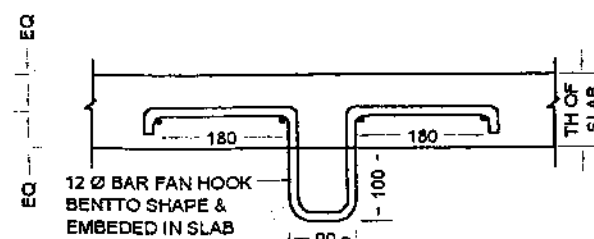
PLAN OF CURTAIN ROAD



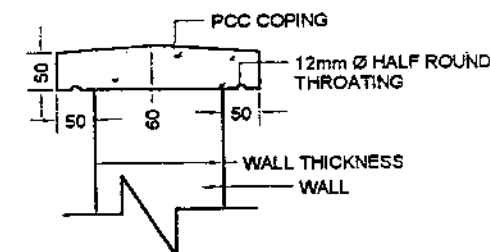
SECTION
DETAIL OF LOCAL SUNK



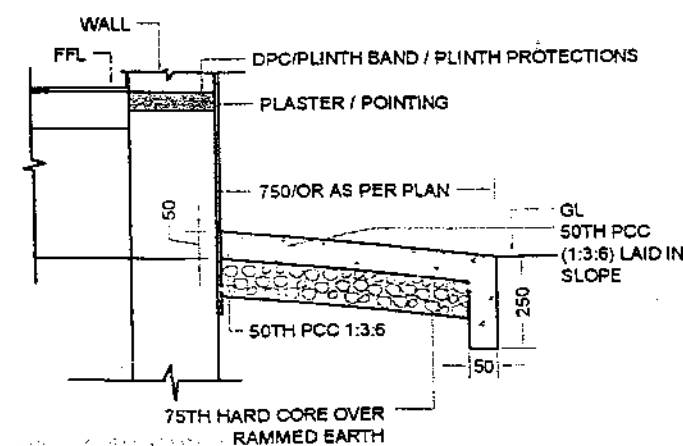
SECTION
GULLY TRAP



DETAIL OF FAN HOOK



SECTION
PCC COPING



SECTION



PLINTH PROTECTION

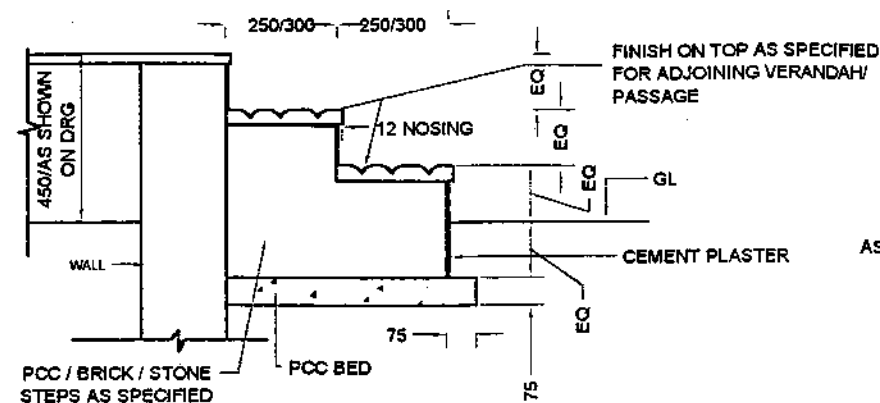
- NOTES

- 1 CONTRACTOR TO CHECK AND VERIFY ALL THE DIMENSIONS BEFORE EXECUTION OF THE WORK.
- 2 FIGURED DIMENSIONS SHALL BE FOLLOWED.
- 3 ALL DIMENSIONS ARE GIVEN IN MILLIMETERS.
- 4 WALL THICKNESS SHALL BE AS INDICATED ON MAIN DRAWINGS OR AS SPECIFIED.
- 5 REFER TYPICAL DETAILS SHOWN IN THIS DRG AS APPLICABLE WHEN NOT SHOWN IN THE MAIN DRGS
- 6 THE DETAILS/SPECIFICATION SHOWN IN THE MAIN DRGS SHALL SUPERCEED THE DETAILS/SPECIFICATION SHOWN IN THIS DRG.
- 7 THIS DRG. IS BASED ON TD - 600.

MISC TYPICAL DETAILS - I

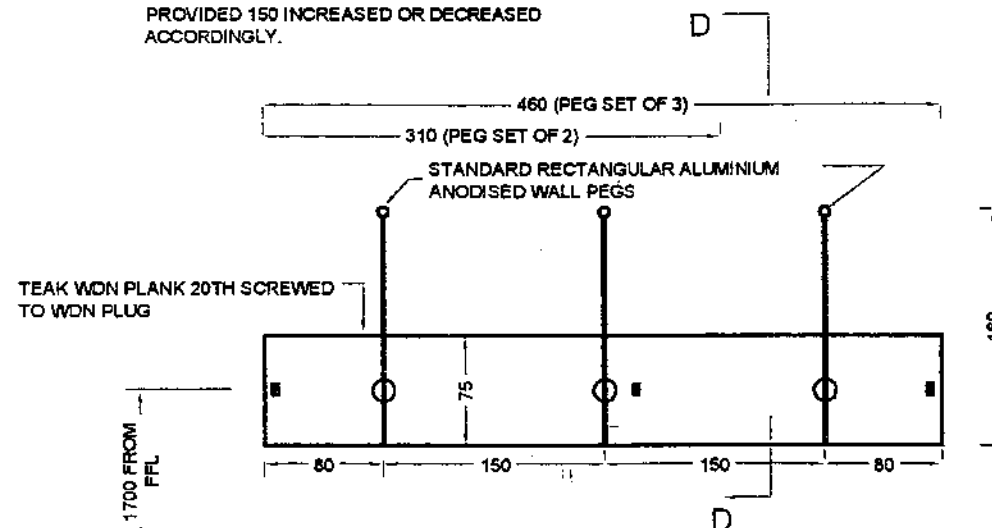
DETAILS OF RCC CHAJJAS,PCC
&KOTA STONE CILL,PCC
COPING,FAN HOOK,MS RUNGS
STEP,PLINTH PROTECTION
,RAMP,PEG SET OF THREE,LOCAL
SUNK,RCC&KOTA STONE
SHELVES KOTA STONE ABOVE
RCC PLATFORM,GT,PELMET
BOX.,CURTAIN ROD,ETC.

DATE	08-04-04	CHIEF ENGINEER JAIPUR ZONE JAIPUR	SHEET No.
DRN.			1/4
TCD.			
CKD.			
SCALE		DRG. No. TD/2004/35	
 ADDL. ASSTT. DIR (ARCH)		 DIRECTOR (ARCH) FOR CHIEF ENGINEER	
DY. DIRECTOR (ARCH)			



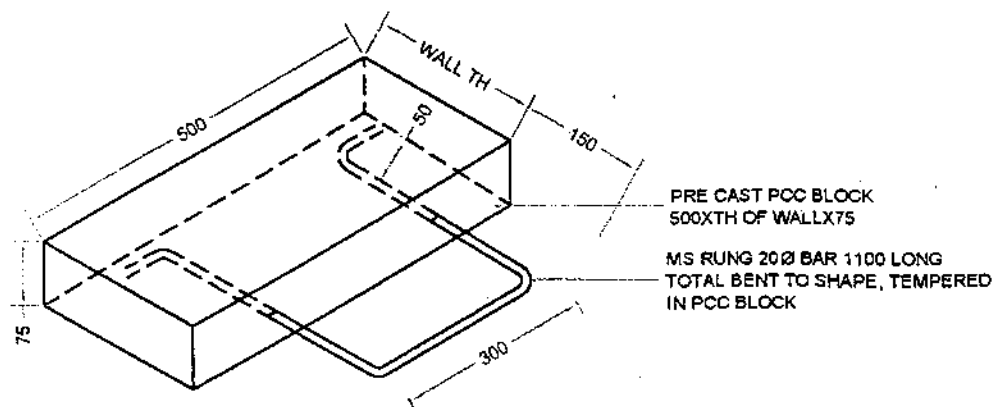
DETAILS OF STEP

NOTE :- IN CASE OF PLINTH HT. MORE THEN 500 OR LESS THEN 450 THE RISER SHALL BE PROVIDED 150 INCREASED OR DECREASED ACCORDINGLY.

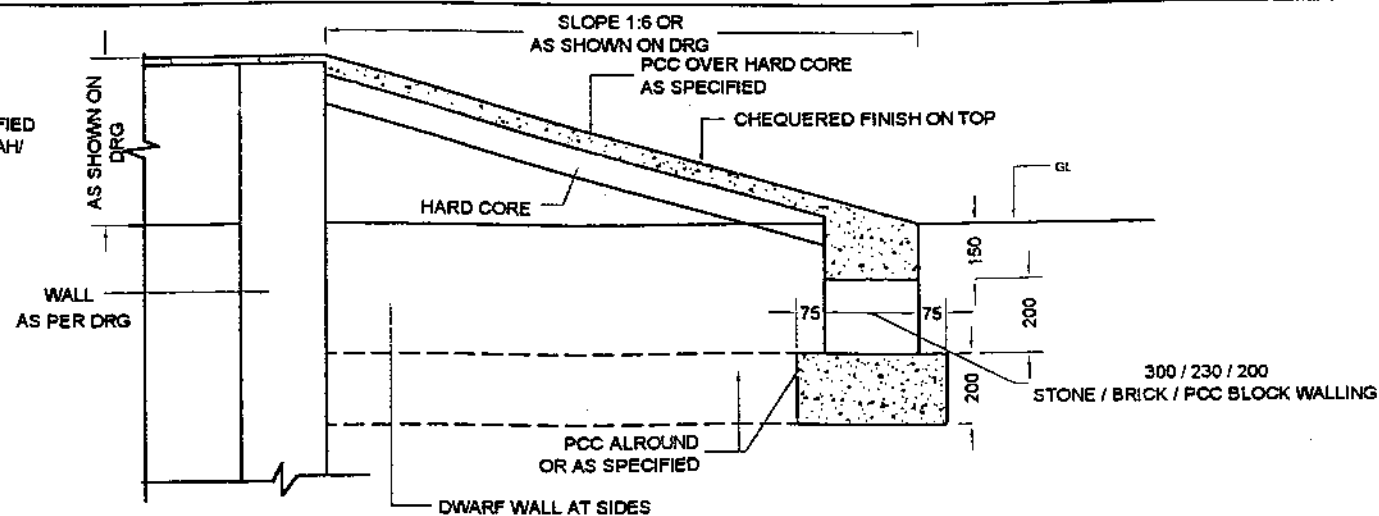


ELEVATION OF PEG SET OF THREE

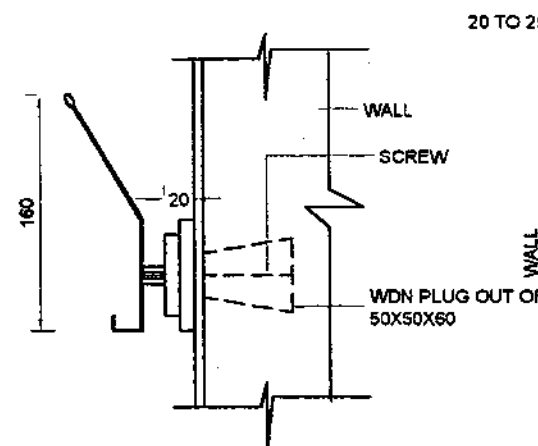
NOTE :- FOR PEG SET OF SIX 2 NOS OF PEG SET OF THREE SHALL BE PROVIDED.



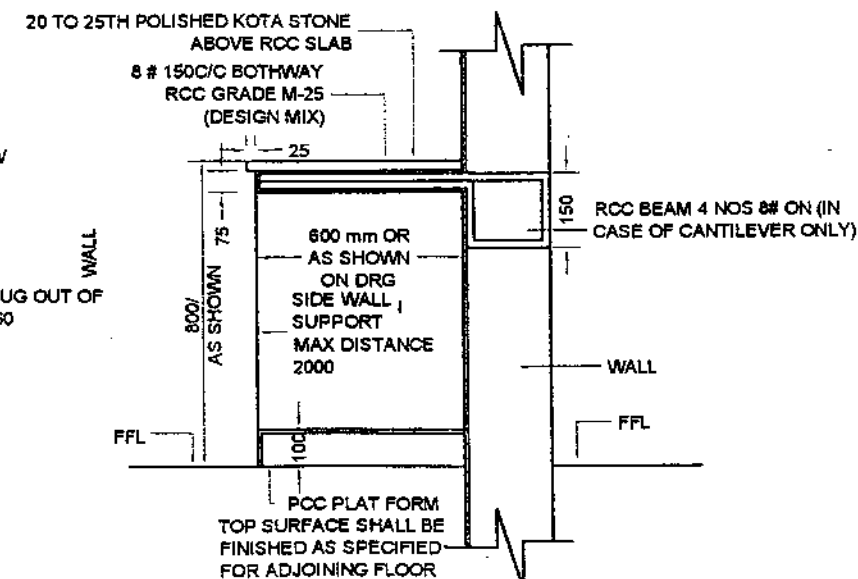
VIEW OF PRECAST PCC BLOCK (ONE UNIT)



DETAILS OF RAMP

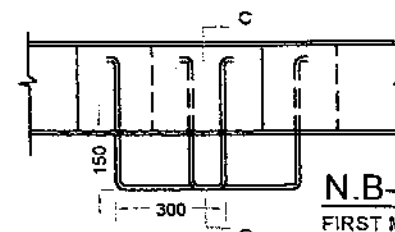


SECTION 'D-D'



SECTION

**KOTA STONE ABOVE RCC SLAB
COOKING PLATFORM /
PREPARATION PLATFORM**



PLAN

N.B-
FIRST MS RUNG TO BE FIXED 150
ABOVE LINTEL LEVEL AT GF.

TYPICAL DETAILS OF MS RUNG

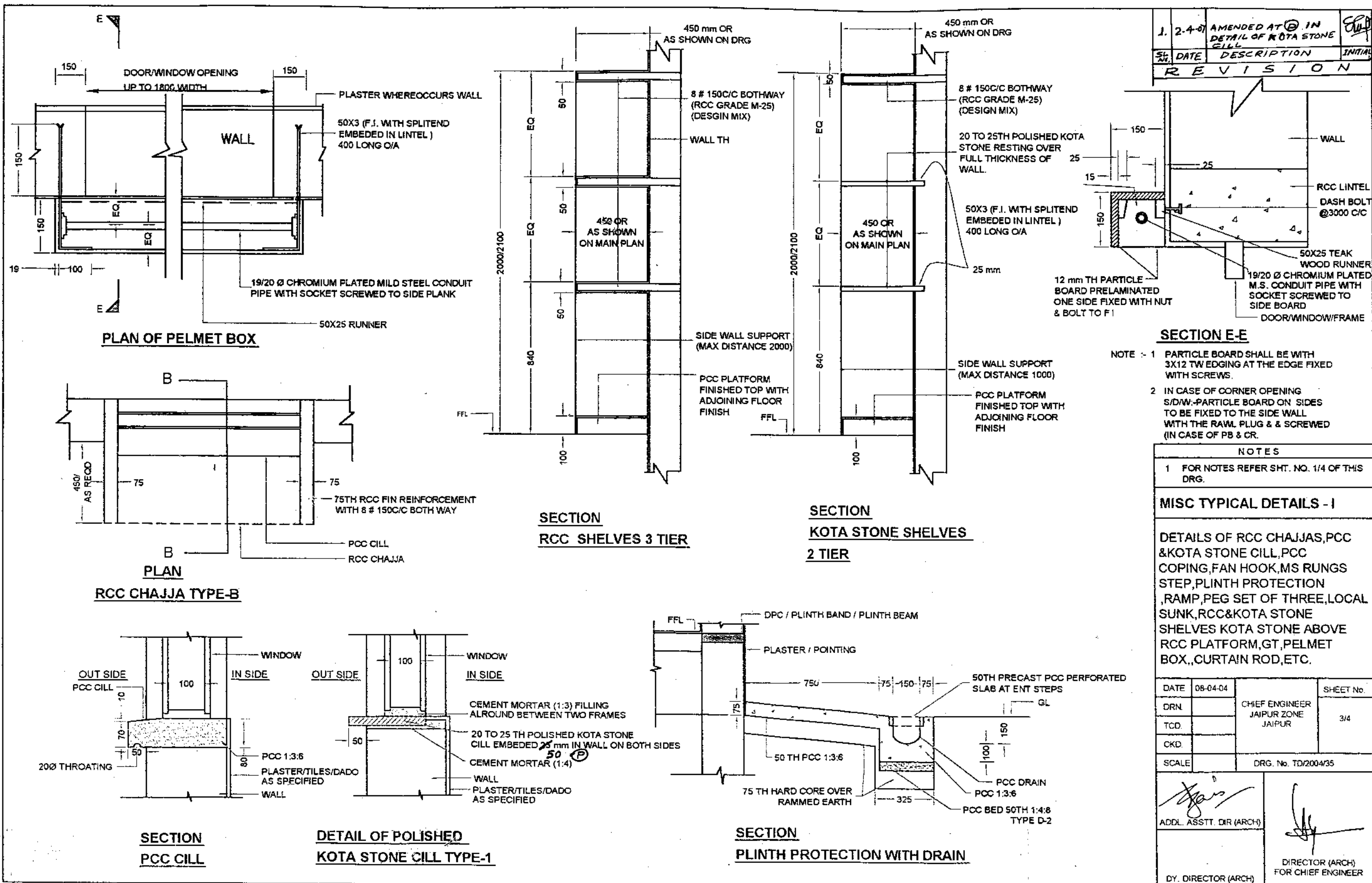
NOTES

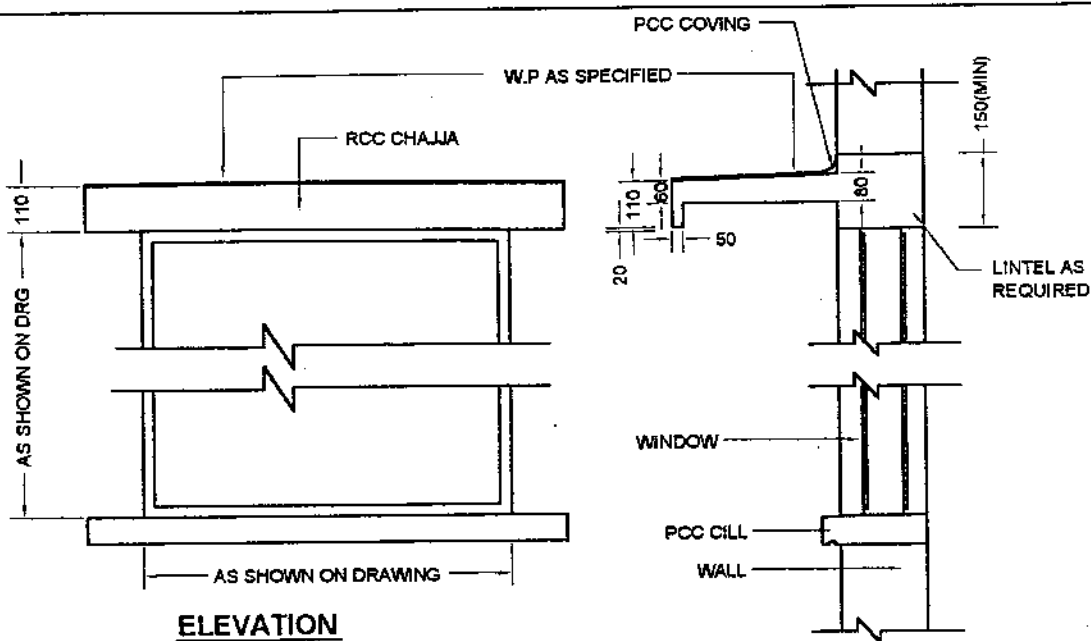
1 FOR NOTES REFER SHT. NO. 1/4 OF THIS DRG.

MISC TYPICAL DETAILS - I

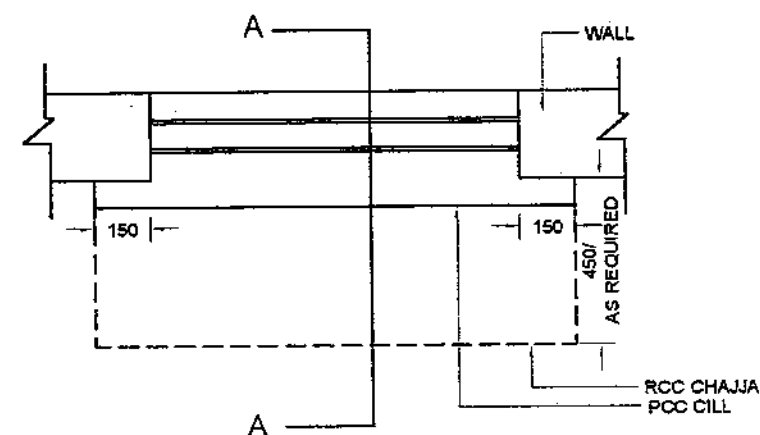
DETAILS OF RCC CHAJJAS, PCC & KOTA STONE CILL, PCC COPING, FAN HOOK, MS RUNGS STEP, PLINTH PROTECTION, RAMP, PEG SET OF THREE, LOCAL SUNK, RCC & KOTA STONE SHELVES KOTA STONE ABOVE RCC PLATFORM, GT, PELMET BOX, CURTAIN ROD, ETC.

DATE	08-04-04	CHIEF ENGINEER JAIPUR ZONE JAIPUR	SHEET No. 2/4
DRN.			
TCD.			
CKD.			
SCALE		DRG. No. TD/2004/35	
ADDL. ASSTT. DIR (ARCH)		DIRECTOR (ARCH) FOR CHIEF ENGINEER	
DY. DIRECTOR (ARCH)			





SECTION A-A

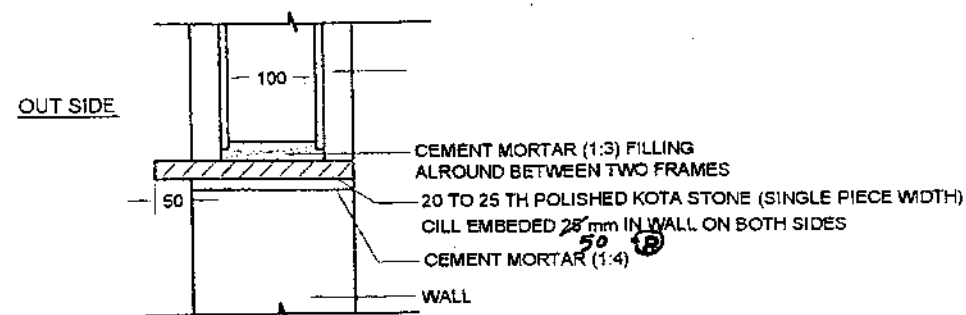


PLAN

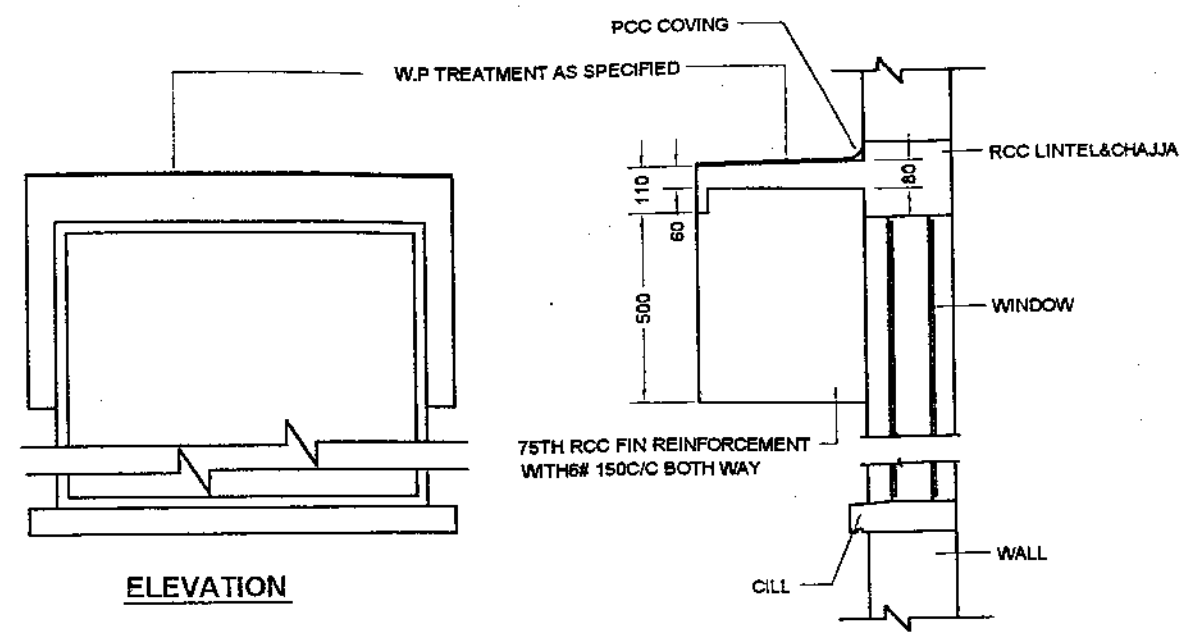
RCC CHAJJA TYPE-A

N.B-

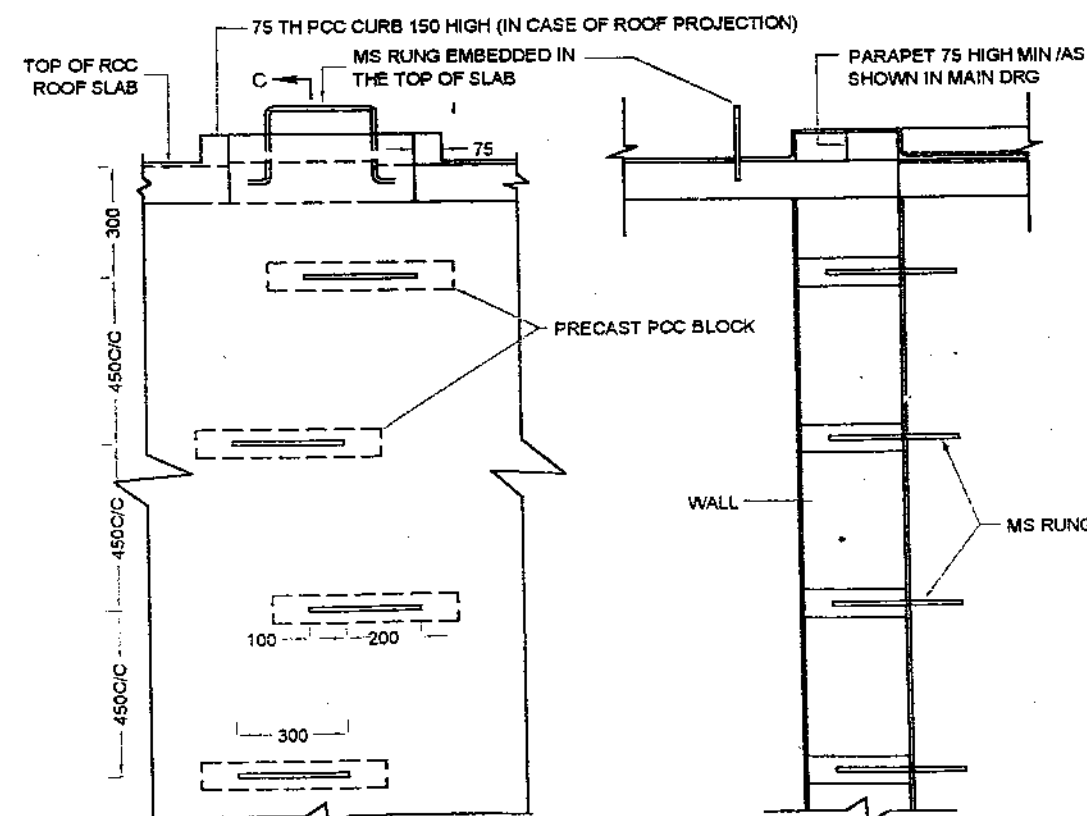
DETAILS OF RCC CHAJJA TYPE A & B ARE ALSO APPLICABLE FOR OUT SIDE DOORS/OPENINGS AS INDICATED IN MAIN DRAWINGS.



DETAIL OF POLISHED KOTA STONE CILL TYPE-2



SECTION B-B



ELEVATION

SECTION 'C-C'

NOTES

- FOR NOTES REFER SHT. NO. 1/4 OF THIS DRG.

1. 24-01 AMENDED AT (P) IN DETAIL OF KOTA STONE CILL

SL. NO.	DATE	DESCRIPTION	INITIAL
---------	------	-------------	---------

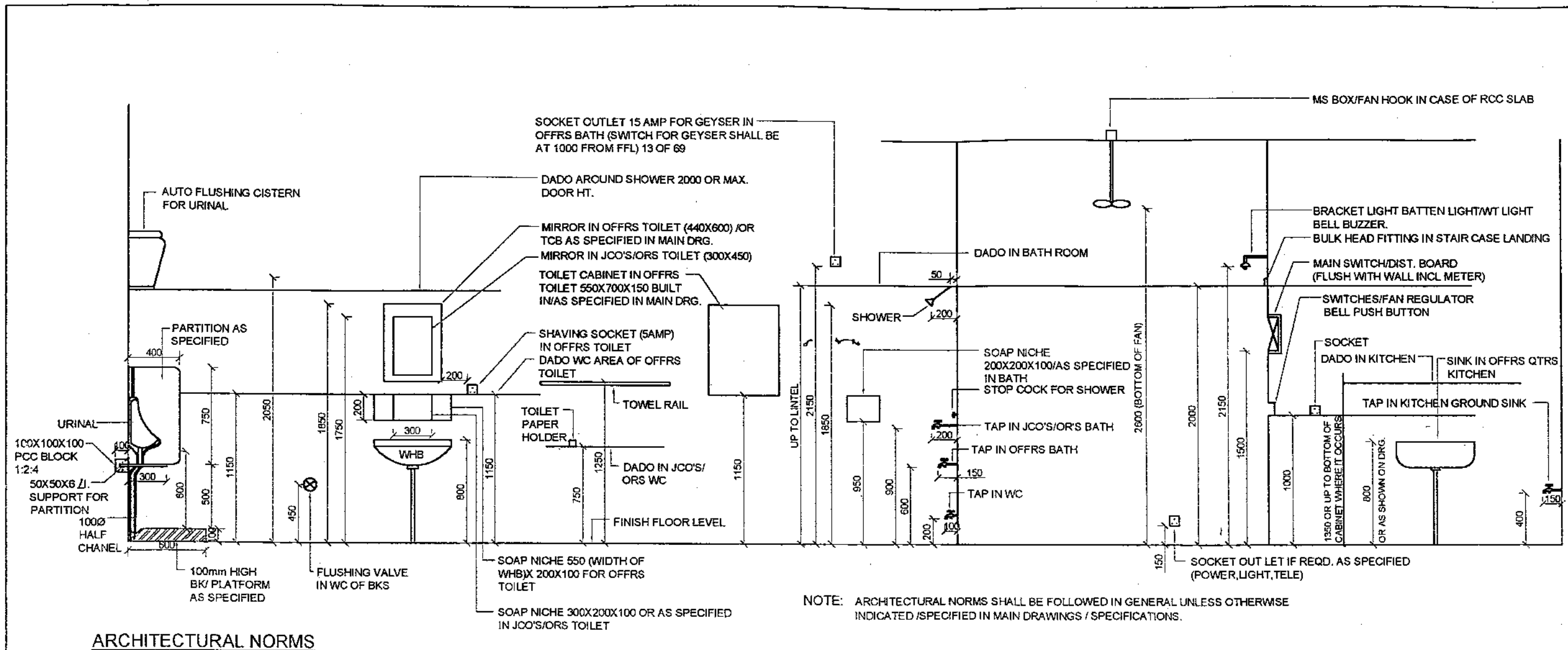
REVISION

MISC TYPICAL DETAILS - I

DETAILS OF RCC CHAJJAS, PCC & KOTA STONE CILL, PCC COPING, FAN HOOK, MS RUNGS STEP, PLINTH PROTECTION, RAMP, PEG SET OF THREE, LOCAL SUNK, RCC & KOTA STONE SHELVES KOTA STONE ABOVE RCC PLATFORM, GT, PELMET BOX, CURTAIN ROD, ETC.

DATE	08-04-04	CHIEF ENGINEER JAIPUR ZONE JAIPUR	SHEET No.
DRN.			4/4
TCD.			
CKD.			
SCALE		DRG. No. TD/2004/35	

ADDL. ASSTT. DIR (ARCH)	DIRECTOR (ARCH) FOR CHIEF ENGINEER
-------------------------	---------------------------------------



NOTES FOR SCHEDULE OF FINISHES:-

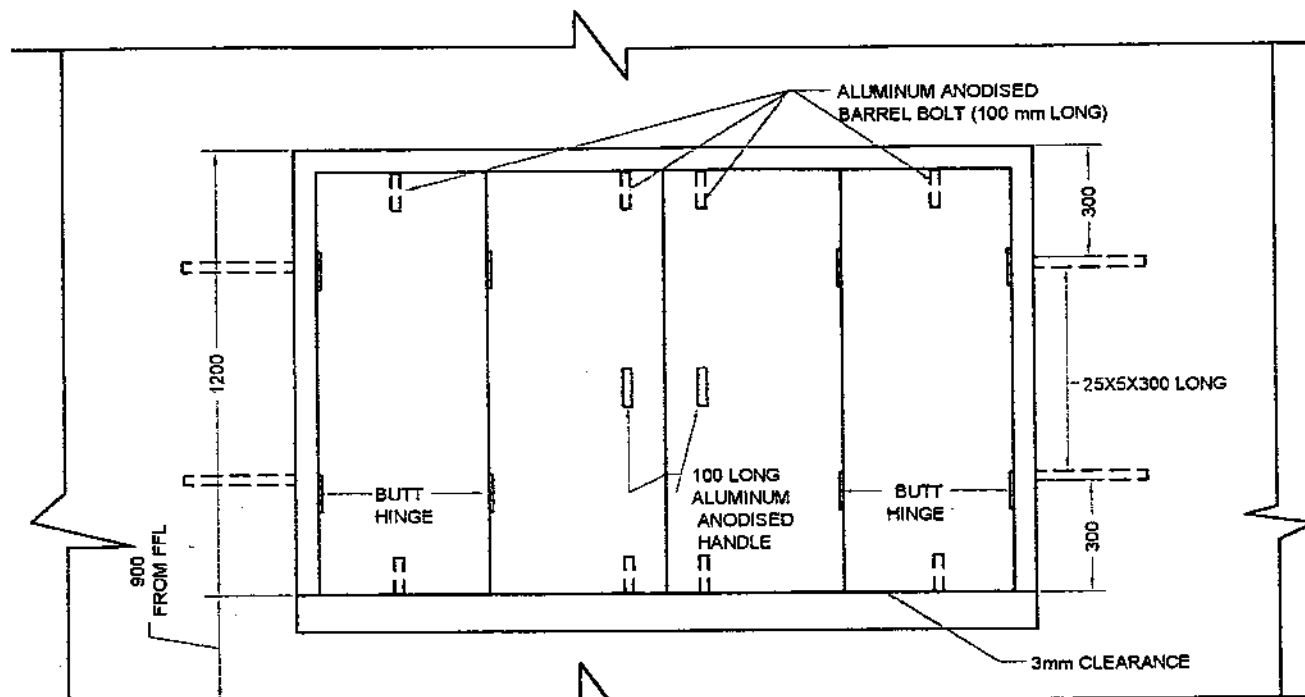
- ALL EXTERNAL PIPES (SOIL, WASTE, VENT & RAIN WATER ETC.) SHALL BE PAINTED IN COLOUR SHADE TO MATCH WITH THE ADJACENT SURFACE.
- WOOD WORK IN DIRECT CONTACT WITH MASONARY OR CONCRETE SHALL BE TREATED WITH TWO COATS OF HOT TAR.
- ALL HIDDEN SURFACES OF WOOD WORK SHALL BE TREATED WITH TWO COATS OF CREOSOTE OIL.
- OVER HEAD WATER TANK SHALL BE PROVIDED WITH LOCKING ARRANGEMENT & SHALL BE TREATED WITH TWO COAT OF CEMENT PAINT INCLUDING, ITS SUPPORTING ELEMENTS.
- EXPOSED SURFACES OF RCC WORK SHALL BE PLASTERED 5mm TH. IN CEMENT MOTAR (1:3) FINISHED EVEN & SMOOTH AS SPECIFIED RCC SURFACES FLUSHED WITH WALL SHALL BE PLASTERED SAME AS SPECIFIED FOR WALL.
- UNEXPOSED STEEL WORK EXPECT REINFORCEMENT SHALL BE PAINTED WITH TWO COATS OF RED OXIDE PAINT BEFORE PLACING THEM IN POSITION.
- EXTERNAL PLASTER/POINTING SHALL BE UP TO 150 mm BELOW GROUND LEVEL WHERE PLINTH PROTECTION IS NOT TO BE PROVIDED.
- PLASTERED GROOVE 15 mm WIDE & 6 mm DEEP SHALL BE PROVIDED INTERNALLY AT ALL JUCTIONS OF RCC COLUMN, BEAMS & SLAB WITH WALLING.
- INTERNAL PLASTERED SURFACES OF CUPBOARD & WARDROBES SHALL BE TREATED WITH TWO COATS OF SYNTHETIC ENAMEL PAINT (WHITE) OVER ONE COATS OF PRIMER.
- LOCATIONS NOT COVERED IN THE DRG SHALL BE FINISHED SAME AS PER ADJACENT SURFACES/DETAIL DRAWINGS.
- WIRE GAUGE OF FLY PROOF/MOSQUITO PROOF SHUTTERS SHALL NOT BE PAINTED.
- CAST-IN-SITU TERRAZO SHALL BE PROVIDED WITH 4 TO 7 mm SIZE MARBLE CHIPS.
- INTERNAL & EXTERNAL FACES OF THE PARAPET WALL (AT ROOF) SHALL BE FINISHED WITH 15 mm TH PLASTER AS PER EXTERNAL FINISH AS SPECIFIED.
- THIS DRAWING IS BASED ON TD/04/601.

ARCHITECTURAL NORMS AND GENERAL NOTES

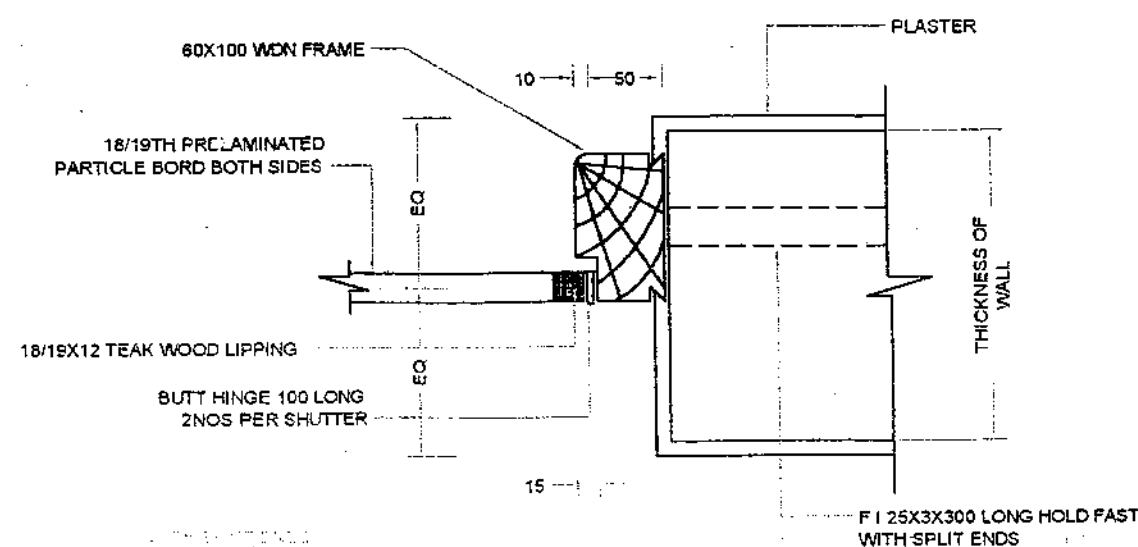
DATE	08-04-04	CHIEF ENGINEER JAIPUR ZONE JAIPUR	SHEET No
DRN.			1/2
TCD.			
CKD.			
SCALE		DRG. NO. TD/2004/36	

ADDL. ASSTT. DIR. (ARCH)	DIRECTOR (ARCH) FOR CHIEF ENGINEER
JT. DIR. (ARCH)	

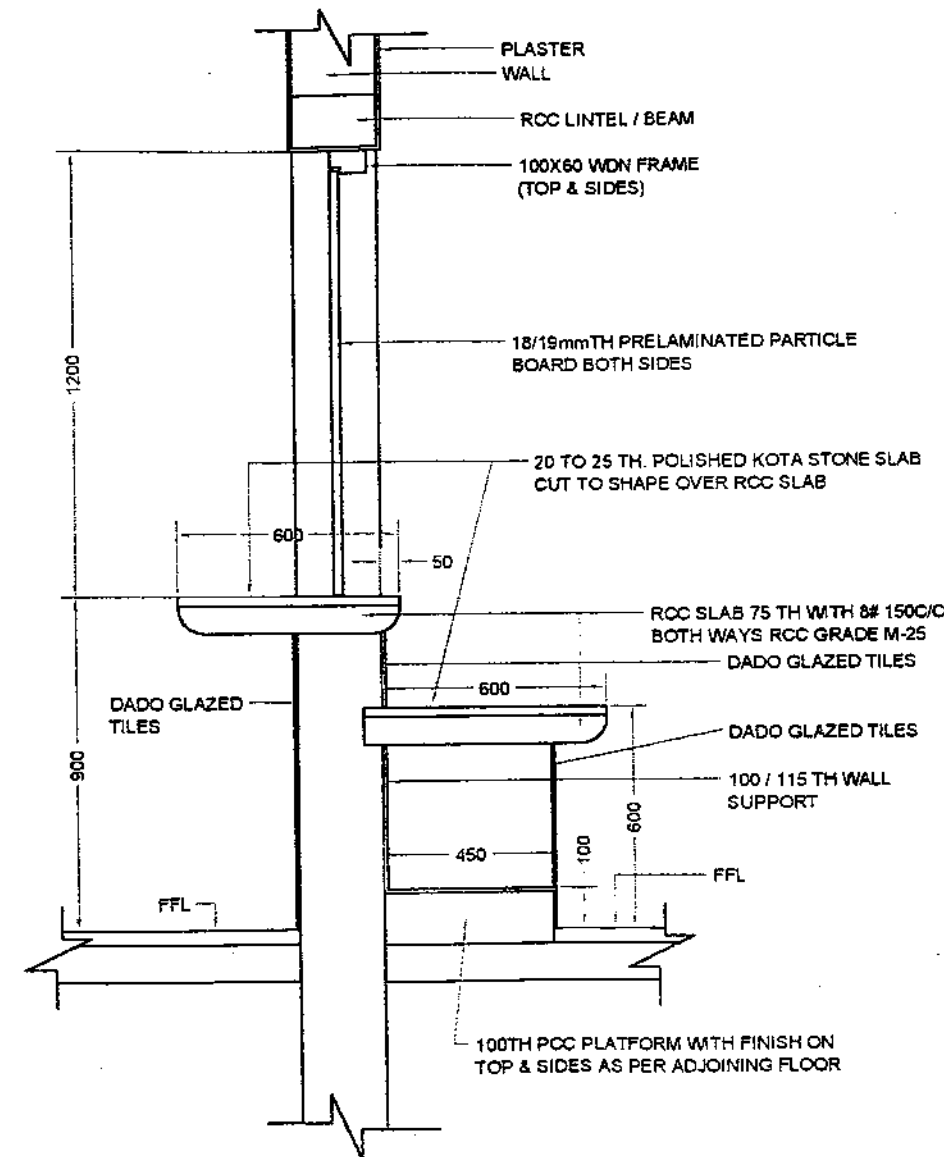
ARCHITECTURAL		E/M					
1	CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS BEFORE THE WORK.	1	CONTRACTOR AND EXECUTIVE TO CHECK AND CO-RELATE ALL DRAWING BEFORE TAKING EXECUTION IN HAND.				
2	ALL DIMENSIONS ARE GIVEN IN MILLIMETRES UNLESS OTHERWISE SPECIFIED	2	INTERNAL ELECTRIFICATION FITTINGS/ ACCESORIES/ SWITCHES & WIRING ETC. SHALL BE LOCATED CLEAR OF DOORS/ WINDOWS.				
3	FIGURED DIMENSIONS SHALL BE FOLLOWED.	3	INTERNAL ELECTRIFICATION WORK SHALL BE CARRIED OUT AS PER IS -732				
4	EXECUTIVE AUTHORITY SHALL CHECK AND VERIFY ALL THE DRGS.BEFORE TAKING EXECUTION IN HAND.	4	LAYOUT OF INTERNAL ELECTRIFICATION HAS BEEN MARKED FOR ONE QTR. AND IT SHALL BE REPEATED SIMILARLY FOR OTHER QTRS. OF THE SAME TYPE/ CATEGORY. THE LAYOUT IS HOWEVER TENTATIVE & WORK SHALL BE FINALLY BE EXECUTED AS PER LAYOUT APPROVED BY GE AND NO PRICE ADJUSTMENT SHALL BE ADMISSIBLE ON THIS ACCOUNT.				
5	ALL GLAZED WNDOWS VENTILATORS SHALL BE PROVIDED WITH GUARD BARS (AS PER DETAILS) OR AS SPECIFIED IN MAIN DRG.	5	MOUNTING HEIGHTS FOR VARIOUS ELECTRICAL FITTINGS/ FIXTURES ETC. SHALL BE AS PER IS-732/E-IN-C'S T.I. HOWEVER ALL SWITCHES/ SOCKET OUTLETS/ FAN REGULATORS SHALL BE MOUNTED IN SUCH WAY THAT THE BOTTOM OF SUNK TYPE BOX IS 1.0 M FROM FFL.				
6	IN CASE OF WNDOWS,VENTILATORS:-MOSQUITO PROOF SHUTTER SHALL OPEN INSIDE AND GLAZED SHUTTER OPEN OUTSIDE.	6	<u>SCHEDULE OF WIRING</u> a) POINT WIRING - CONCEALED CONDUIT (RIGID PVC) TYPE AS PER IS-9537.				
7	IN CASE OF DOORS:-MOSQUITO PROOF SHUTTER SHALL OPEN OUTSIDE & PANELLED SHUTTER SHALL OPEN INSIDE THE ROOM.	7	TELEPHONE CONDUIT (RIGID PVC, CONCEALED IN WALLS) DULY PRE-WIRED SHALL BE PROVIDED WITH TELEPHONE SOCKETS SUITABLE LOCATED AS SHOWN IN DRG.				
8	THE MINIMUM DIMENSIONS GIVEN FOR ROOM HEIGHT SHALL BE MEASURED AT THE FARTHEST END FROM THE RIDGE LINE INSIDE THE ROOM AS SHOWN.	8	RIGID PVC CONDUIT (20MM Ø) CONCEALED IN WALL IN SIDE THE QTR. AND RIGID STEEL CONDUIT (20MM Ø) FIXED TO WALL OUTSIDE THE QTR. SHALL BE PROVIDED FOR TV ANTENNA TERMINATING SUITABLY AS PER INSTRUCTION OF GE.				
9	THE HEIGHT OF PARAPET WALL ON THE ROOF TOP SHALL BE PROVIDED (HT SHOWN IN THE DRG) AT THE RIDGE LINE & SHALL INCREASE ACCORDINGLY. AS SHOWN IN ELEVATION		INT. WS				
10	ALDROP BOLT SHALL BE PROVIDED TO THE DOOR MARKED IN PLAN AND ALL EXTERNAL DOORS.	1	FOLLOWING ITEMS ARE REQUIRED TO BE PROVIDED WITH EVERY SERVICE/OH TANK (OR AS SHOWN IN THE MAIN DRG. :- I) OVERFLOW PIPE OF DIA EQUAL TO THE DIA OF INLET PIPE ,WITH MOSQUITO NET, ONE METRE PROJECTED FROM OUTER WALL OF THE BUILDING. II) ONE WASH OUT PIPE WITH ONE BAND & PLUG FROM BOTTOM OF TANK TO 150 ABOVE THE ROOF. THE DIA OF WASH OUT PIPE WILL BE EQUAL TO THE DIA OF INLET. III) ONE VENT PIPE OF 15 mm Ø,CONNECTED WITH DISTRIBUTION PIPE LENGTH OF VENT PIPE WILL GO UP TO 100 HIGH ABOVE OH TANK. IV) ONE VENT PIPE OF 15 mm Ø,CONNECTED FROM TOP OF GEYSER.THE LENGTH OF THIS VENT PIPE WILL GO UP TO 100 HIGH ABOVE OH TANK.				
11	ROOF BAND LINTEL BAND & PLINTH BAND SHALL BE PROVIDED AS PER STRUCTURAL DRAWINGS.	2	THIS DRAWING IS BASED ON TD/04/601.				
12	FLOOR TO FLOOR HEIGHT SHOWN IS FROM FFL TO FFL FOR GROUND FLOOR & FFL TO TOP OF RCC SLAB EXCLUDING WP TREATMENT AT TOP FLOOR.						
13	DETAILS GIVEN IN TD/ED DRGS SHALL BE FOLLOWED AS INDICATED IN MAIN DRAWING.						
14	DETAILS/BUILT IN FURNITURE SHOWN AT GROUND FLOOR SHALL BE APPLICABLE AT FIRST FLOOR (ABOVE THE SAME ROOM) UNLESS OTHERWISE SHOWN.						
15	RCC/STRUCTURAL ELEMENTS SHALL BE FOLLOWED WITH SIZE/THICKNESS AS PER STR. DRGS.IRRESPECTIVE OF THE SAME IS SHOWN OR NOT SHOWN IN ARCH DRGS.						
16	50X25 DRIP MOULD IN PLASTER SHALL BE PROVIDED TO ALL ROOF PROJECTIONS/CANOPYS/CHAJJAS WITH OUT DOWN WARD FACIA						
17	PCP INDICATES PLAIN CEMENT PLASTER						
18	FOR FIXING OF EXHAUST FAN THE PROVISION OF 4 NOS BOLT TO BE MADE WHICH ARE EMBEDDED IN WALL WITH PCC BLOCK (100X100X150 PCC 1:2:4)						
19	PCC COPING SHALL BE PROVIDED ABOVE ALL PARAPET WALL/COMPOUND WALL AS PER DETAIL.						
20	DETAILS OF ROLLING SHUTTERS & COLLAPSIBLE DOOR (GATE) SHALL BE AS PER MANUFACTURERS DETAILS WITH FIXING AT SITE OR AS SPECIFIED.						
21	THE OPENING FOR EXHAUST FANS (OF REQUIRED DIAMETER) SHALL BE PROVIDED BELOW FLOOR/ROOF BAND/BELM UNLESS OTHERWISE INDICATED.						
22	PLINTH PROJECTION SHALL BE PROVIDED AROUND THE BLDG AS PER DETAIL & AS SPECIFIED.						
23	PIPE FROM NT TO NT AND NT TO CT WHICH IS EMBEDDED BELOW FFL SHALL BE 75 Ø CI PIPE OR AS SPECIFIED.						
24	NICHE FOR ELECTRIC METER BOX/MCB DBS & WATER METER SHALL BE PROVIDED AT THE LOCATION DECIDED BY GE AT SITE AT THE TIME OF EXECUTION IF NOT SHOWN IN THE DRGS.						
25	THE HEIGHT OF THE BUILDING IS EXCLUDING THE THICKNESS OF WATER PROOFING TREATMENT.						
26	AT THE JUNCTION OF RCC AND MASONARY ON THE EXTERNAL SURFACE A STRIP OF CHICKEN WIRE MECH-150 MM WIDE SHALL BE FIXED OVER THE JUNCTION BEFORE PLASTERING TO ACT AS REINFORCEMENT FOR THE PLASTER. NO GROOVE SHALL BE PROVIDED AT THIS LOCATION.	28	COOLER REST SHALL BE PROVIDED AS PER DRG NO-TD/2004/47 SHT 2/5 FOR WINDOW COOLER.				
27	CI PIPE WITH COLLER SHALL BE PLACED IN SITU DURING CASTING OF RCC SLABS INSTEAD OF PLACING A WOODEN GUTKA OR KEEPING A HOLE FOR THE SAME.	29	LAYOUT SHOWN FOR CAT/CHAIRS IN SINGLE ACCN IS INDICATIVE ONLY BEING FURNITURE ITEMS AND DOES NOT PART OF CONTRACT.				
		30	FOR NOMINCLATURE OF DOORS/ WINDOWS/VENTS, MAIN DRG SHALL BE FOLLOWED, WHEREVER SHOWN OR NOT SHOWN IN ENLARGED/DETAIL PLAN.				
				2	10-10-11	NOTE NO 28, 29, 30 ADDED	
				1	01/02/12	NOTE NO - 26, & 27 ADDED	
				S.NO	DATE		INITIAL
				REVISION			
				ARCHITECTURAL NORMS AND GENERAL NOTES			
				DATE	08-04-04		SHEET No.
				DRN.		CHIEF ENGINEER JAIPUR ZONE JAIPUR	2/2
				TCD.			
				CKO.			
				SCALE		DRG. NO. TD/2004/38	
				JT. DIR. (E/M)		JT. DIR. (DES.)	
				ADDL. ASSTT. DIR. (ARCH)		DIRECTOR (ARCH) FOR CHIEF ENGINEER	



ELEVATION (DINING HALL SIDE)



DETAIL AT 'X'



SECTION 'P-P'

NOTES

- 1 CONTRACTOR TO CHECK AND VERIFY ALL THE DIMENSIONS BEFORE EXECUTION OF THE WORK.
- 2 FIGURED DIMENSIONS SHALL BE FOLLOWED.
- 3 ALL DIMENSIONS AT GIVEN IN MILLIMETERS.
- 4 WALL THICKNESS SHALL BE AS INDICATED ON MAIN DRAWINGS OR AS SPECIFIED.
- 5 REFER TYPICAL DETAILS SHOWN IN THIS DRG AS APPLICABLE WHEN NOT SHOWN IN THE MAIN DRGS
- 6 THE DETAILS/SPECIFICATION SHOWN IN THE MAIN DRGS SHALL SUPERCEED THE DETAILS/SPECIFICATION SHOWN IN THIS DRG.
- 7 THIS DRAWING IS BASED ON TD - 625.

MISC TYPICAL DETAILS - 2

FIXING OF RWP FOR PROJECTED ROOF SLAB, FIXING OF RWP, SPLASH STONE, INSPECTION CHAMBER (FIRST MANHOLE), DETAIL OF MEAT HOOK, FIXING DETAIL OF MEAT HOOK HANGING ROD, DETAIL OF COOLER REST, CILL TYPE 'C', DETAIL OF SPACE FOR GAS CYLINDER, PLAN OF SERVICE COUNTER AND HATCH WINDOW AND DETAIL OF MOSQUITO PROOFING FOR E F



DATE	08-04-04	CHIEF ENGINEER JAIPUR ZONE JAIPUR	SHEET No.
DRN			1/5
TCD			
CKD			
SCALE		DRG. NO. TD/2004/47	
ADOL. ASSTT. DIR. (ARCH)		DIRECTOR (ARCH) FOR CHIEF ENGINEER	
JT. DIRECTOR (ARCH)			

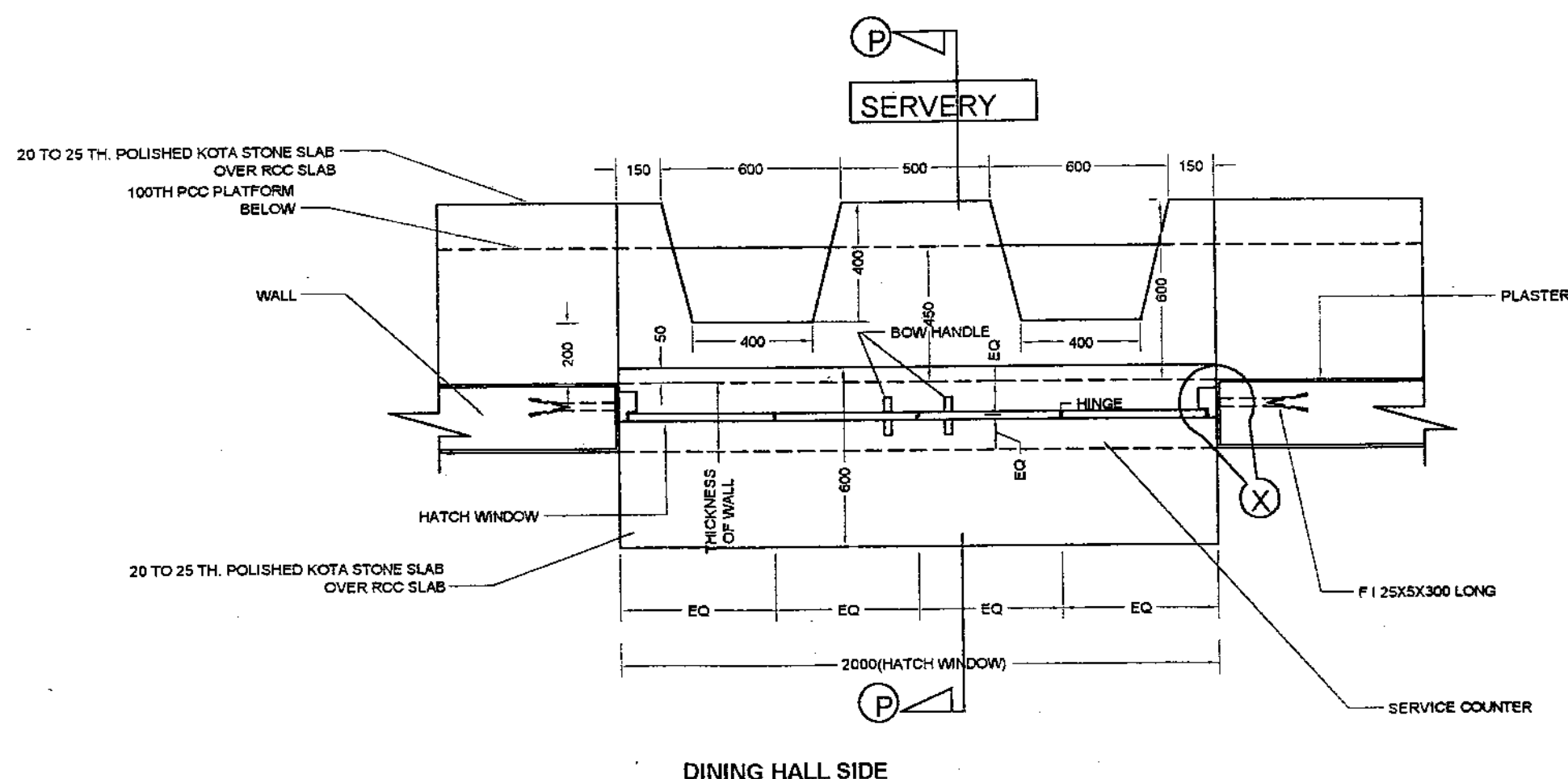
NOTES

- FOR ALL NOTES REFER SHT NO - 1/5 OF THIS DRG.

MISC TYPICAL DETAILS - 2

FIXING OF RWP FOR PROJECTED ROOF SLAB, FIXING OF RWP, SPLASH STONE, INSPECTION CHAMBER (FIRST MANHOLE), DETAIL OF MEAT HOOK, FIXING DETAIL OF MEAT HOOK HANGING ROD, DETAIL OF COOLER REST, CILL TYPE 'C', DETAIL OF SPACE FOR GAS CYLINDER, PLAN OF SERVICE COUNTER AND HATCH WINDOW AND DETAIL OF MOSQUITO PROOFING FOR E F

DATE	08-04-04	CHIEF ENGINEER JAIPUR ZONE JAIPUR	SHEET No.
DRN.			2/5
TCD.			
CKD.			
SCALE		DRG. NO. TD/2004/47	
 ADDL. ASSTT. DIR.(ARCH)		 DIRECTOR (ARCH) FOR CHIEF ENGINEER	
JT. DIRECTOR (ARCH)			



**PLAN OF SERVICE COUNTETR
AND HATCH WINDOW**

NOTES

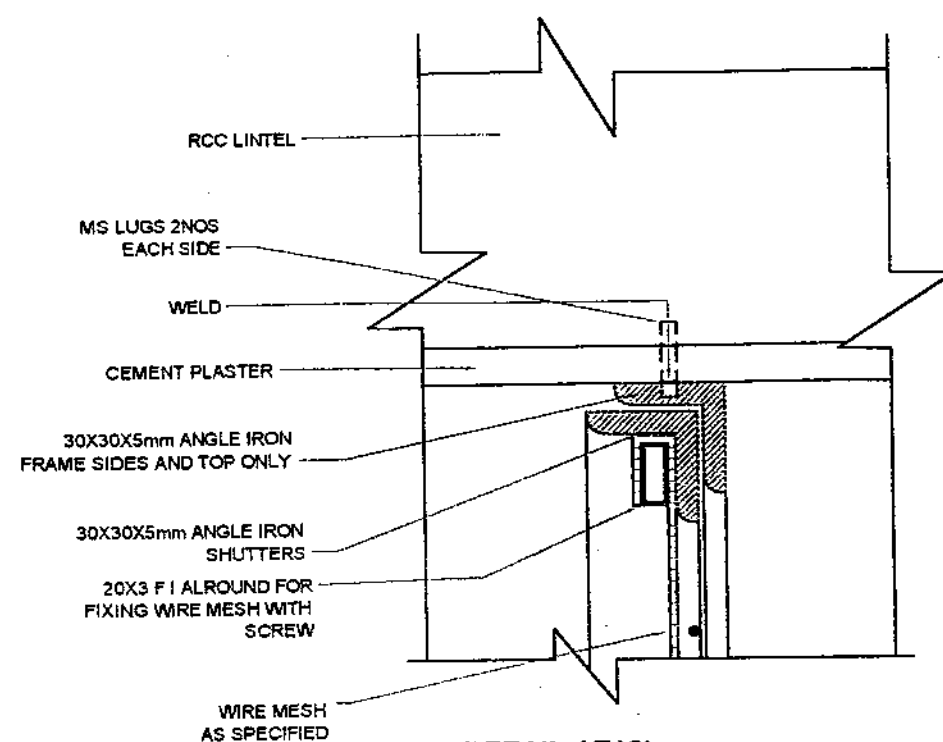
- 1 FOR ALL NOTES REFER SHT NO - 1/5 OF THIS DRG.

MISC TYPICAL DETAILS - 2

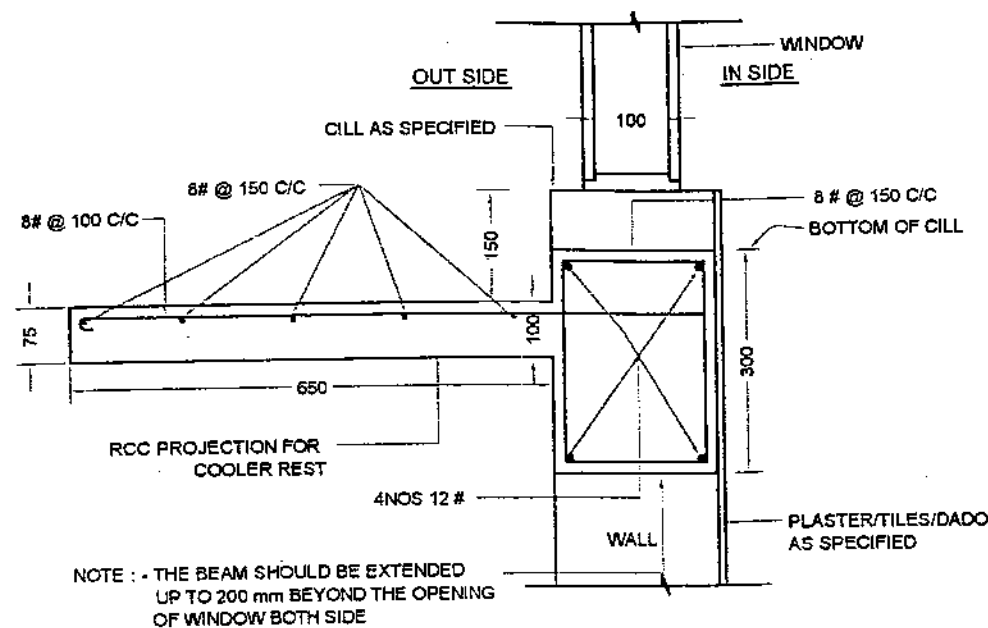
FIXING OF RWP FOR PROJECTED ROOF SLAB, FIXING OF RWP, SPLASH STONE, INSPECTION CHAMBER (FIRST MANHOLE), DETAIL OF MEAT HOOK, FIXING DETAIL OF MEAT HOOK HANGING ROD, DETAIL OF COOLER REST, CILL TYPE 'C', DETAIL OF SPACE FOR GAS CYLINDER, PLAN OF SERVICE COUNTER AND HATCH WINDOW AND DETAIL OF MOSQUITO PROOFING FOR E F

DATE	08-04-04	SHEET No
DRN		CHIEF ENGINEER
TCD		JAIPUR ZONE
CKD		JAIPUR
SCALE		DRG. NO. TD/2004/47

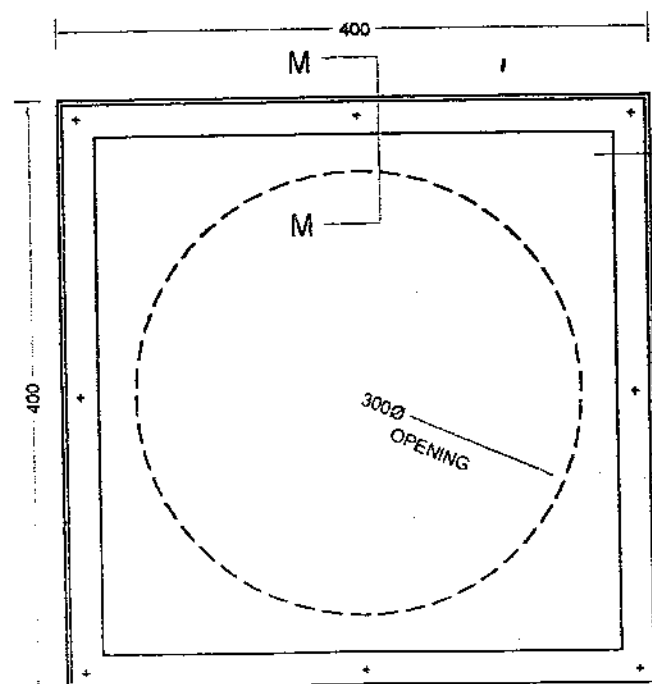
ADDL. ASST. DIR. (ARCH)	DIRECTOR (ARCH)
JT. DIRECTOR (ARCH)	FOR CHIEF ENGINEER



DETAIL AT 'S'

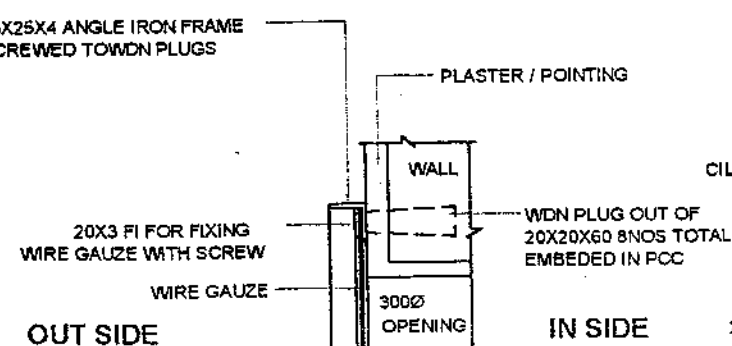


SECTION
DETAIL OF COOLER REST

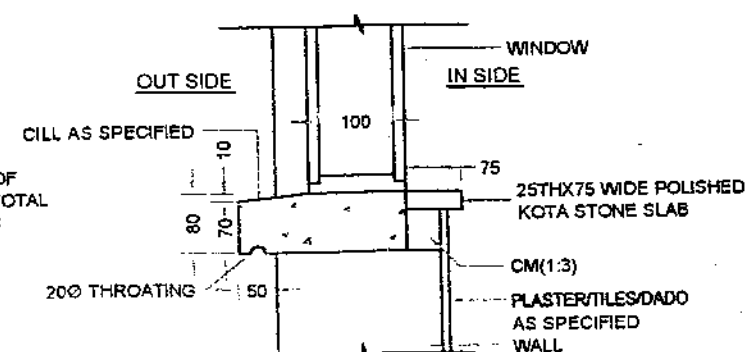


ELEVATION SKETCH 'P'

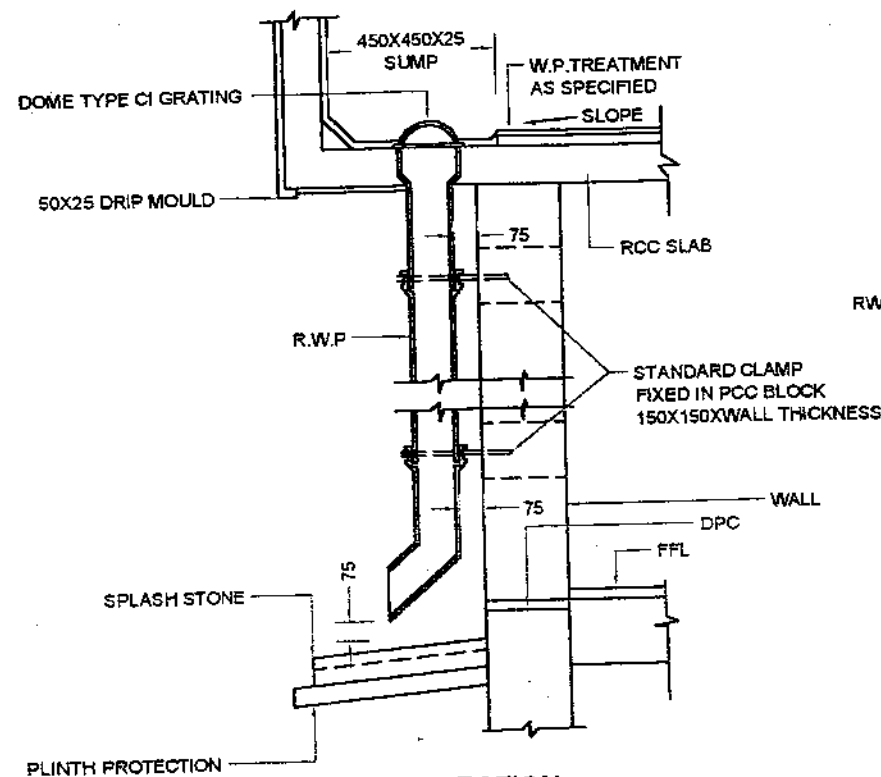
(DETAIL OF MOSQUITO PROOFING ARRANGEMENT FOR EXHAUST FAN OPENING)



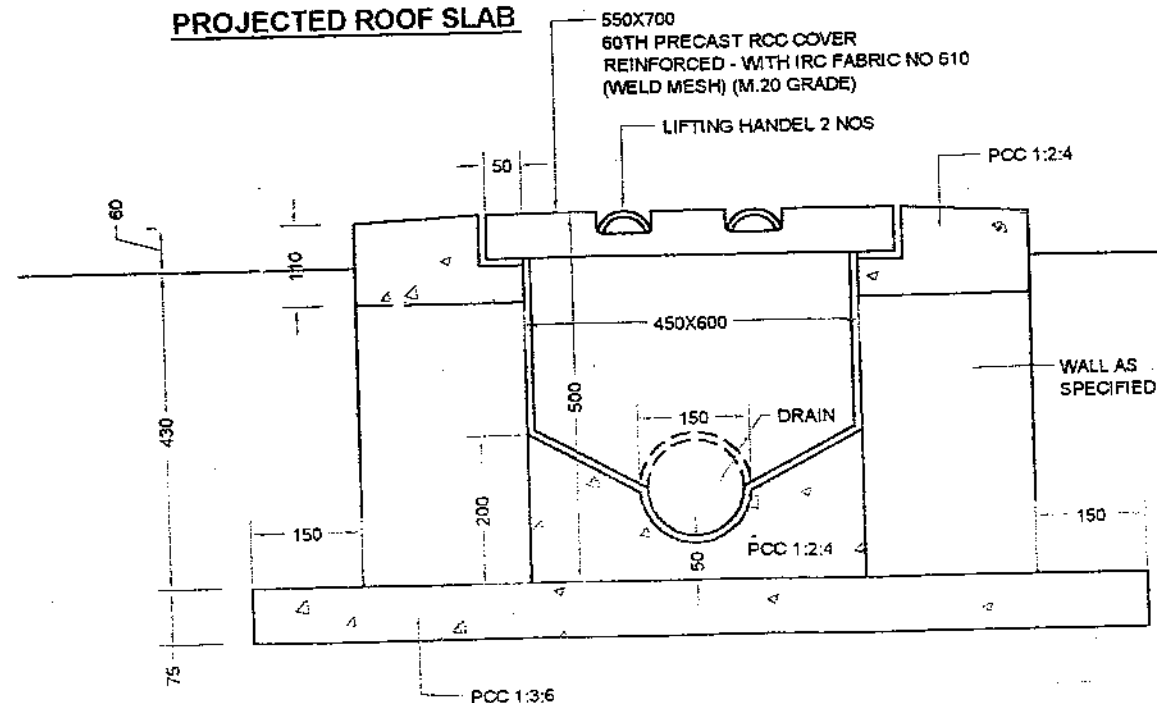
SECTION 'MM'



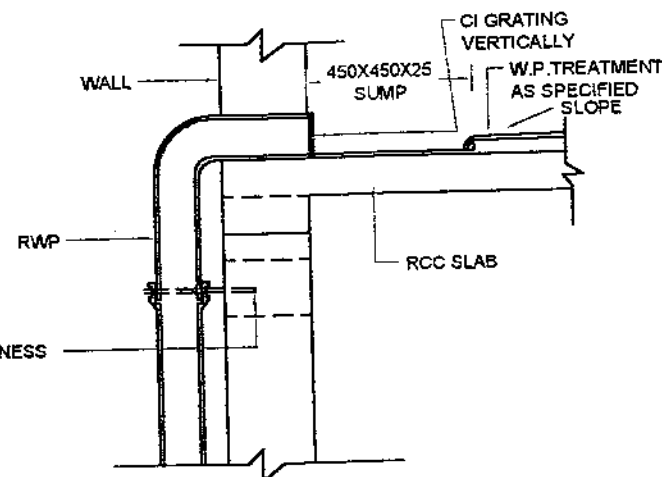
SECTION THROUGH CILL TYPE 'C'



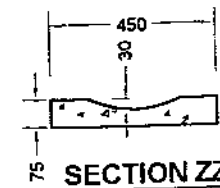
SECTION
FIXING OF RWP FOR
PROJECTED ROOF SLAB



SECTION
INSPECTION CHAMBER (FIRST MANHOLE)

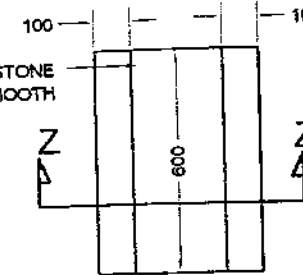


SECTION
FIXING OF RWP

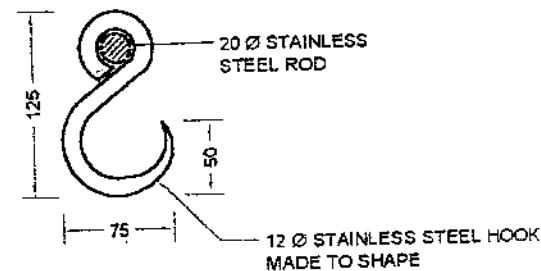


SECTION ZZ

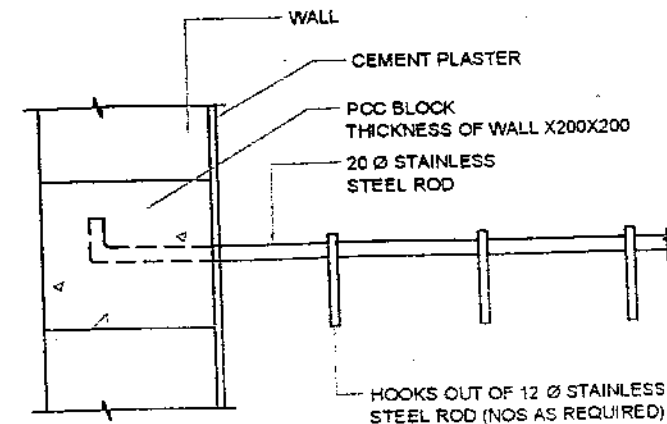
PRECAST SPLASH STONE
(PCC 1:2:4) WITH SMOOTH
CEM. FINISH



PLAN
SPLASH STONE



DETAIL OF MEAT HOOK



FIXING DETAILS OF MEAT
HOOK HANGING ROD

NOTES

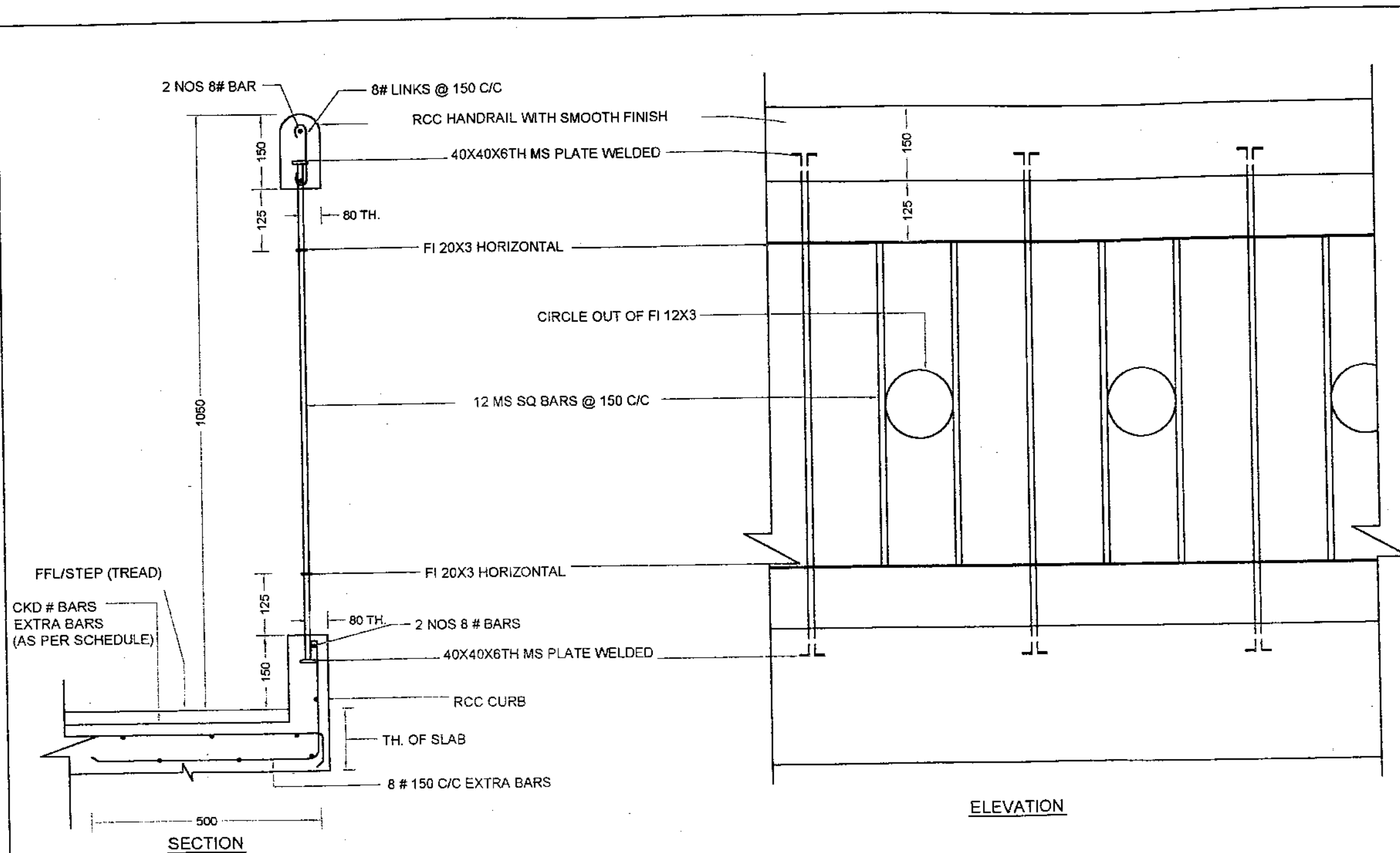
1. FOR ALL NOTES REFER SHT NO-1/5 OF THIS DRG.
2. IN CASE OF BLACK COTTON SOIL :- A LAYER OF MOORUM 300TH SHALL BE LAID BELOW PCC 1:3:6 FOR INSPECTION CHAMBER IN FDN. THE RETURNING AND FILLING IN FDN. SHALL ALSO BE DONE WITH MOORUM.

44	NOTE NO.2 ADDED	IN
S.N.	DATE	DESCRIPTION
		REVISION

MISC TYPICAL DETAILS - 2

FIXING OF RWP FOR PROJECTED ROOF SLAB, FIXING OF RWP, SPLASH STONE, INSPECTION CHAMBER (FIRST MANHOLE), DETAIL OF MEAT HOOK, FIXING DETAIL OF MEAT HOOK HANGING ROD, DETAIL OF COOLER REST, CILL TYPE 'C', DETAIL OF SPACE FOR GAS CYLINDER, PLAN OF SERVICE COUNTER AND HATCH WINDOW AND DETAIL OF MOSQUITO PROOFING FOR E F

DATE	08-04-04	CHIEF ENGINEER	SHEET No.
DRN		JAIPUR ZONE	4/5
TCD		JAIPUR	
CKD			
SCALE		DRG. NO. TD/2004/47	
ADDL. ASSTT. DIR (ARCH)		DIRECTOR (ARCH)	FOR CHIEF ENGINEER
JT. DIRECTOR (ARCH)			



DETAIL OF PARAPET (TYPE - 'B')

NOTES

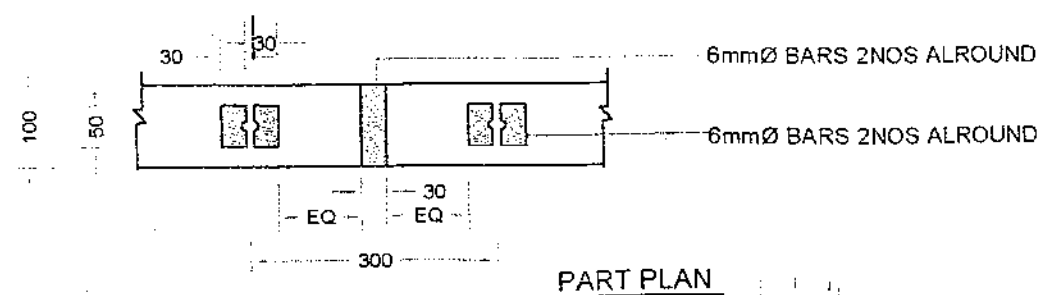
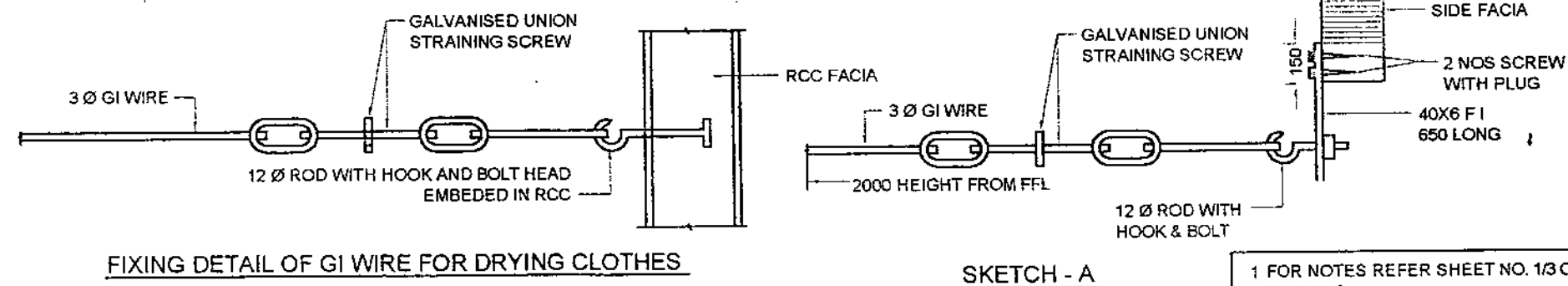
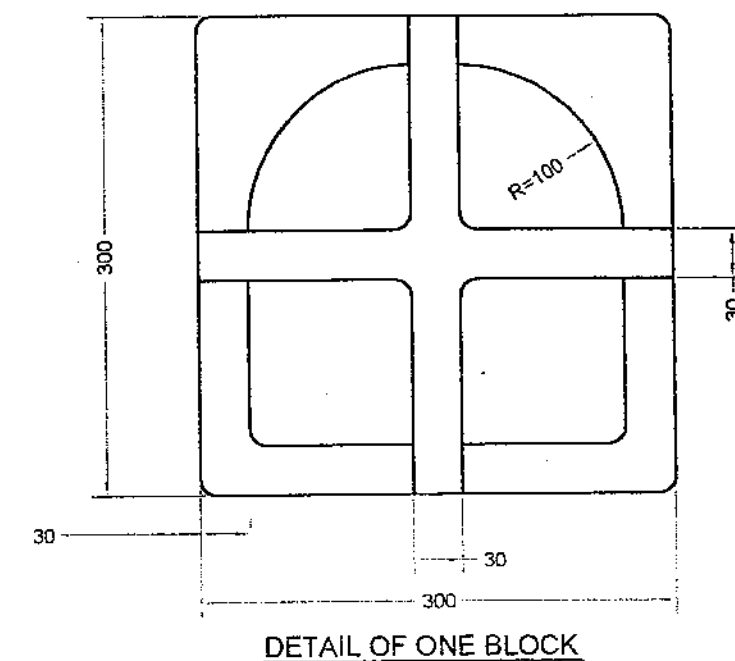
- 1 CONTRACTOR TO CHECK AND VERIFY ALL THE DIMENSIONS BEFORE EXECUTION OF THE WORK.
- 2 FIGURED DIMENSIONS SHALL BE FOLLOWED.
- 3 ALL DIMENSIONS ARE GIVEN IN MILLIMETERS.
- 4 WALL THICKNESS SHALL BE AS INDICATED ON MAIN DRAWINGS OR AS SPECIFIED.
- 5 REFER TYPICAL DETAILS SHOWN IN THIS DRG AS APPLICABLE WHEN NOT SHOWN IN THE MAIN DRGS
- 6 THE DETAILS/SPECIFICATION SHOWN IN THE MAIN DRGS SHALL SUPERCEED THE DETAILS/SPECIFICATION SHOWN IN THIS DRG.
- 7 THIS DRAWING IS BASED ON TD-628.

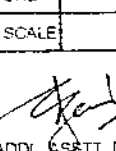
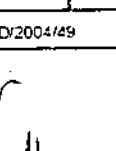
MISC TYPICAL DETAILS - 3

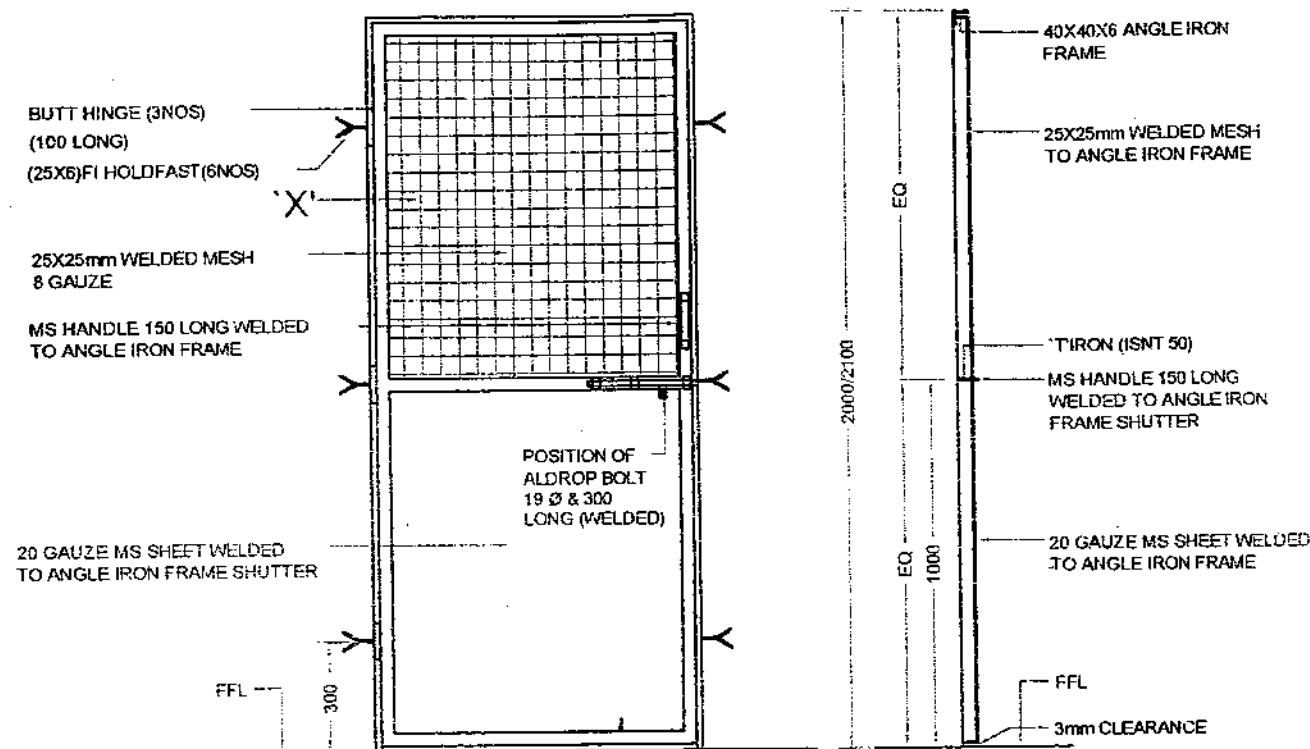
DETAILS OF STEEL DOOR (SD), RCC JALLI TYPE -1, PARAPET TYPE -A & B, STEP (STAIR CASE) AND FIXING DETAIL OF GI WIRE

DATE	08-04-04	CHIEF ENGINEER JAIPUR ZONE JAIPUR	SHEET No.
DRN			1/3
TCD			
CKD			
SCALE		DRG. NO. TD/2004/49	

ADDL. ASSTT. DIR.(ARCH)	DIRECTOR (ARCH) FOR CHIEF ENGINEER
JT. DIRECTOR (ARCH)	

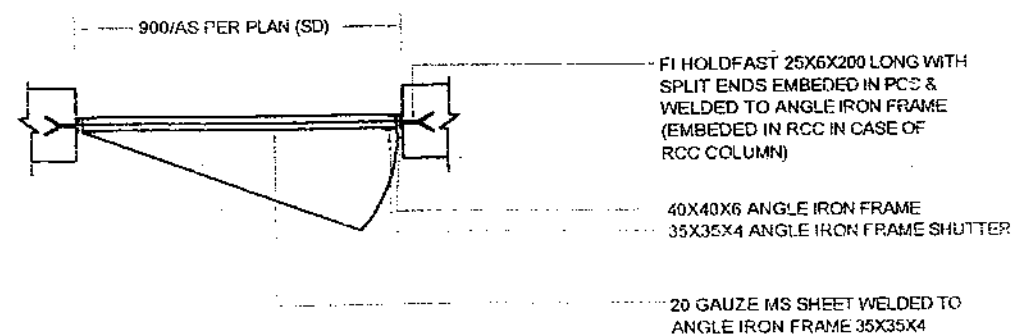


1 FOR NOTES REFER SHEET NO. 1/3 OF THIS DRG.			
MISC TYPICAL DETAILS - 3			
DETAILS OF STEEL DOOR (SD) RCC JALLI TYPE -1, PARAPET TYPE -A & B, STEP (STAIR CASE) AND FIXING DETAIL OF GI WIRE			
DATE	08-04-04	CHIEF ENGINEER JAIPUR ZONE JAIPUR	SHEET No.
DRN			2/3
TCD			
CKD			
SCALE		DRG NO. TD/2004/49	
 ADDL. S&ETT. DIR (ARCH)		 DIRECTOR (ARCH) FOR CHIEF ENGINEER	
JT. DIRECTOR (ARCH)			



ELEVATION

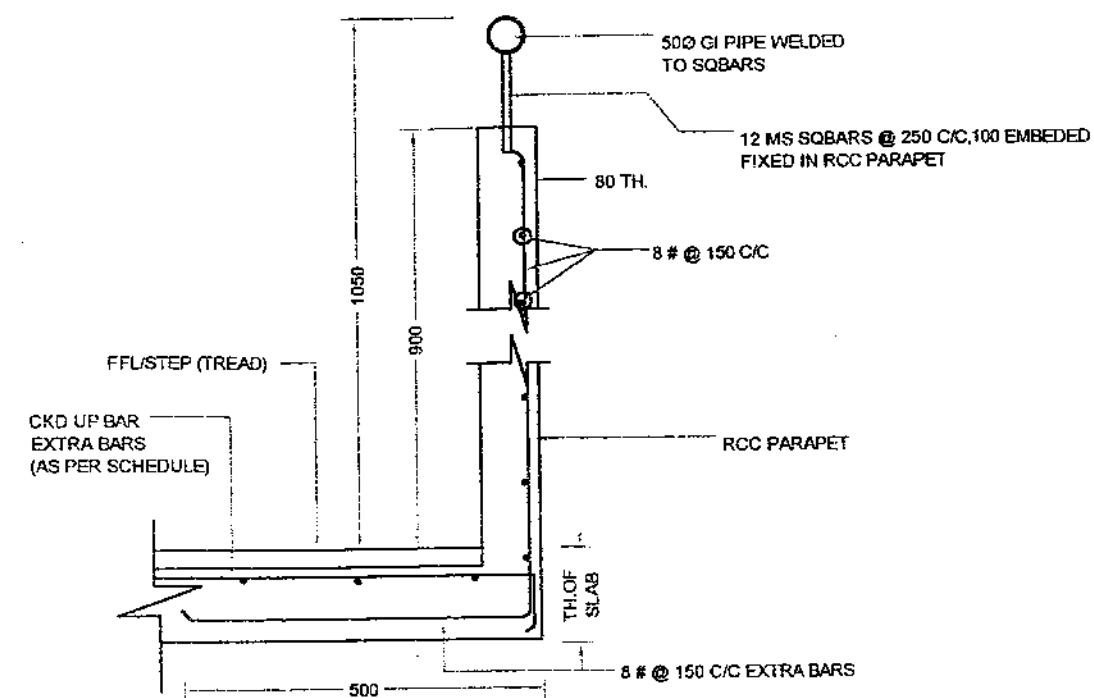
CROSS SECTION



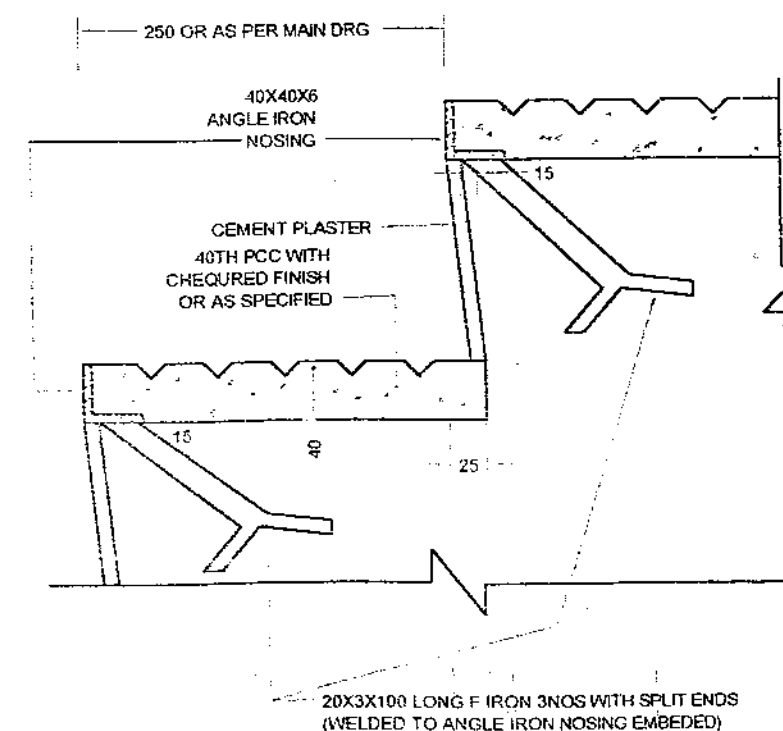
(OUT SIDE)

PLAN

DETAILS OF STEEL DOOR (SD)



DETAIL OF PARAPET (TYPE - 'A')



DETAIL OF STEPS (STAIR CASE)

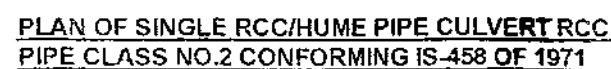
1 FOR NOTES REFER SHEET NO. 1/3 OF THIS DRG.

MISC TYPICAL DETAILS - 3



DETAILS OF STEEL DOOR (SD), RCC JALLI TYPE -1, PARAPET TYPE -A & B, STEP (STAIR CASE) AND FIXING DETAIL OF GI WIRE

DATE	08-04-04	CHIEF ENGINEER JAIPUR ZONE JAIPUR	SHEET No
DRN			3/3
TCD			
CKD			
SCALE		DRG. NO. TD/200443	

ADL. ASST. DIR. (ARCH)	DIRECTOR (ARCH) FOR CHIEF ENGINEER
JT. DIRECTOR (ARCH)	

BRICK / PCC BLOCK SIZES IN DRAIN

- 15 THIS DRG. IS BASED ON TD-630.

 ADELLE POSTLE, DIR. (ARCH)	 DIRECTOR (ARCH)
BY DIRECTOR (ARCH)	FOR CHIEF ENGINEER

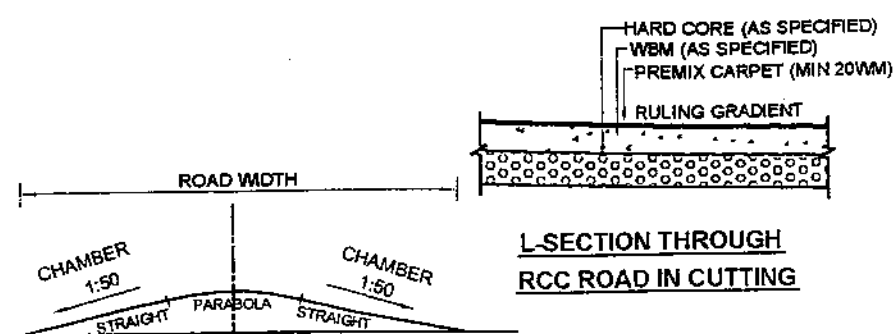
NOTES

- FOR NOTES REFER SHT.NO.1/2 OF THIS DRG.

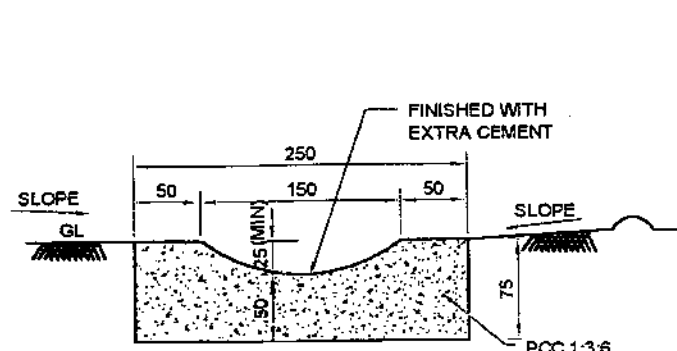
TYPICAL DETAILS OF DRAIN, RCC/HUME PIPE CULVERT & SEC THROUGH ROAD IN CUTTING. PLANS, ELEVATIONS, SECTIONS, DETAIL OF ROAD SIDE DRAIN AND SAUCER DRAIN.

DATE	08-04-04	SHEET No.	
DRN.		CHEF ENGINEER	
TCD.		JAIPUR ZONE	
CKD.		JAIPUR	2/2
SCALE		DRG NO. TD/2004/51	

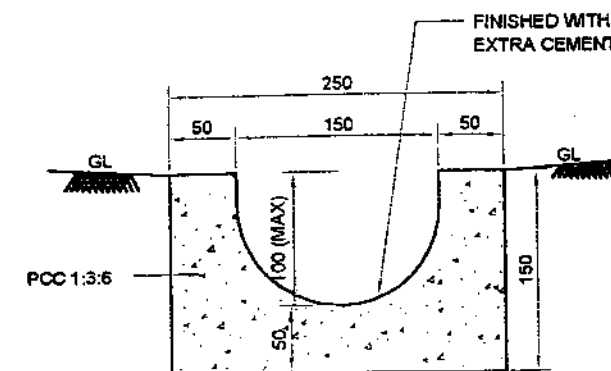
ADDL. ASSTT. DIR.(ARCH)	DIRECTOR (ARCH) FOR CHIEF ENGINEER
BY DIRECTOR (ARCH)	



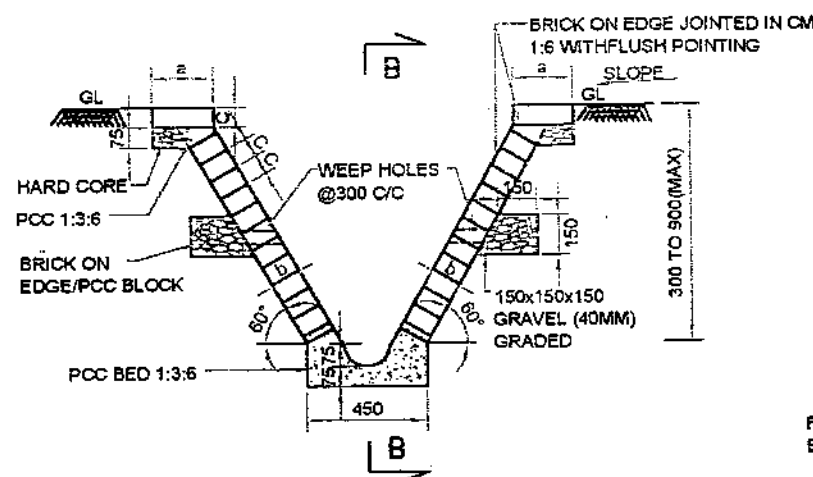
CROSS SECTION OF ROAD IN CUTTING FOR CHAMBER SLOPE



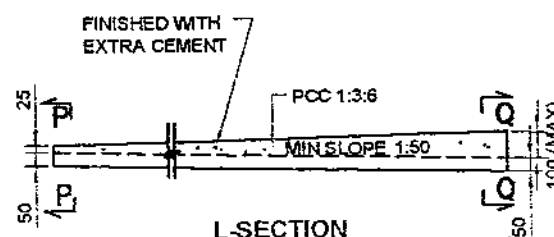
SECTION P-P



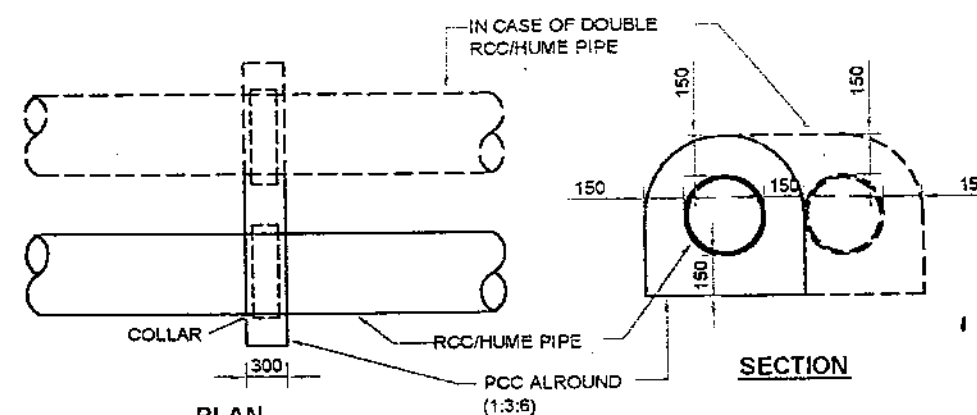
SECTION Q-Q



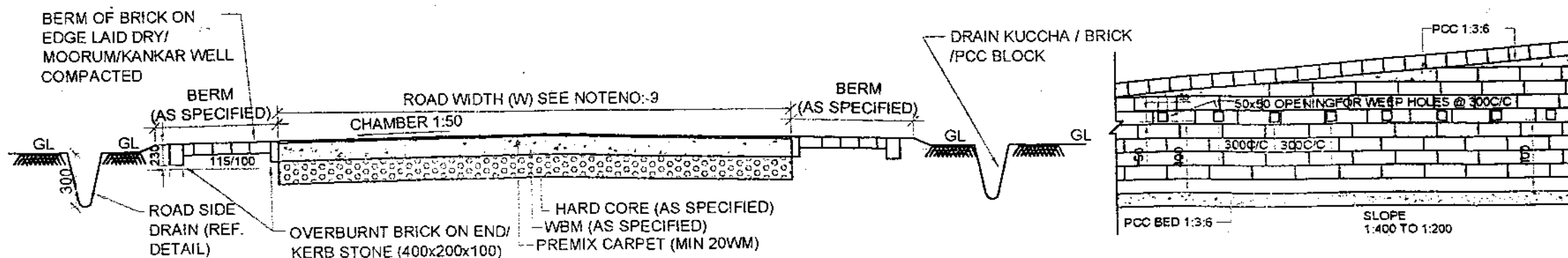
DETAILS OF ROAD SIDE DRAIN



L-SECTION DETAIL OF SAUCER DRAIN



PLAN DETAIL OF RCC/HUME PIPE JOINT

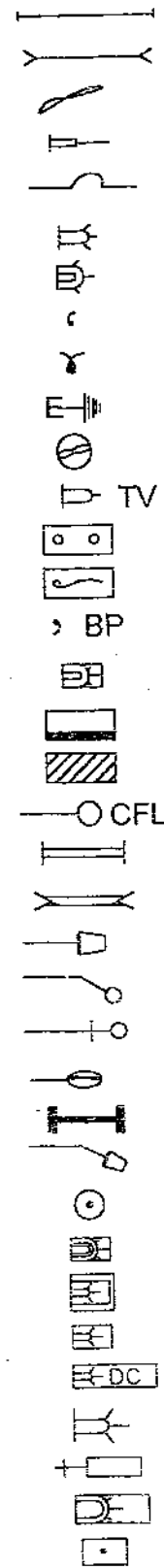


SECTION THROUGH ROAD IN CUTTING

SECTION B-B

LEGEND

- 1 FLUORESCENT TUBE LIGHT FITTING 1X40 W BOX TYPE
- 2 FLUORESCENT TUBE LIGHT FITTING 1X20 W BOX TYPE
- 3 CEILING FAN 1200 mm SWEEP.
- 4 FAN REGULATOR
- 5 FAN HOOK WITH POINT WIRING
- 6 SOCKET OUTLET 5 PIN 5 AMP
- 7 SOCKET OUTLET 5 PIN 15 AMP
- 8 PIANO TYPE SWITCH 5 AMP SINGLE WAY
- 9 PIANO TYPE SWITCH 5 AMP TWO WAY
- 10 EARTHING
- 11 EXHAUST FAN
- 12 T.V ANTINA SOCKET
- 13 TELEPHONE POINT
- 14 BUZZER
- 15 PUSH BUTTON FOR BUZZER
- 16 METAL CLAD PLUG & SOCKET OUTLET WITH 16 AMPS SPMCB
- 17 MAIN SWITCH BOARD
- 18 DISTRIBUTION SWITCH BOARD
- 19 CFL9/11W BOX TYPE CONNECTOR (A NOBJ 19/14
- 20 FLUORESCENT TUBE LIGHT FITTING 2X40W INDS TYPE.
- 21 FLUORESCENT TUBE LIGHT FITTING 2X20W
- 22 SECURITY LIGHT FITTING <HPSV> 1X70W/150W
- 23 FLAME PROOF 125W HPMV FITTING
- 24 FLAME PROOF 50 W HPMV FITTING
- 25 AIR CIRCULATOR
- 26 FLUORESCENT TUBE LIGHT FITTING 1X40 W INDUSTRIAL TYPE.
- 27 HPMV LAMP FITTING 250W SHOWN THUS.
- 28 GLS LAMP FITTING 1000W SHOWN THUS.
- 29 MCB TPN 32 AMP 3 PHASE.
- 30 MCB SPN 32 AMP 5 PHASE WITH SOCKET OUTLET SHOWN THUS.
- 31 MCB WITH SOCKET OUTLET 5 PHASE 15 AMP SHOWN THUS
- 32 SOCKET OUTLET 3 PIN 5 AMP 24 V DC SHOWN THUS.
- 33 SOCKET OUTLET 3 PIN 2/3 PIN 5 AMP SHOWN THUS
- 34 HPSV LAMP FITTING 250 W SHOWN THUS.
- 35 PLUG SOCKET WITH MCB 20 AMP SP SHOWN THUS.
- 36 MCB SP 10 AMP WITH SHEET ENCLOSURE.

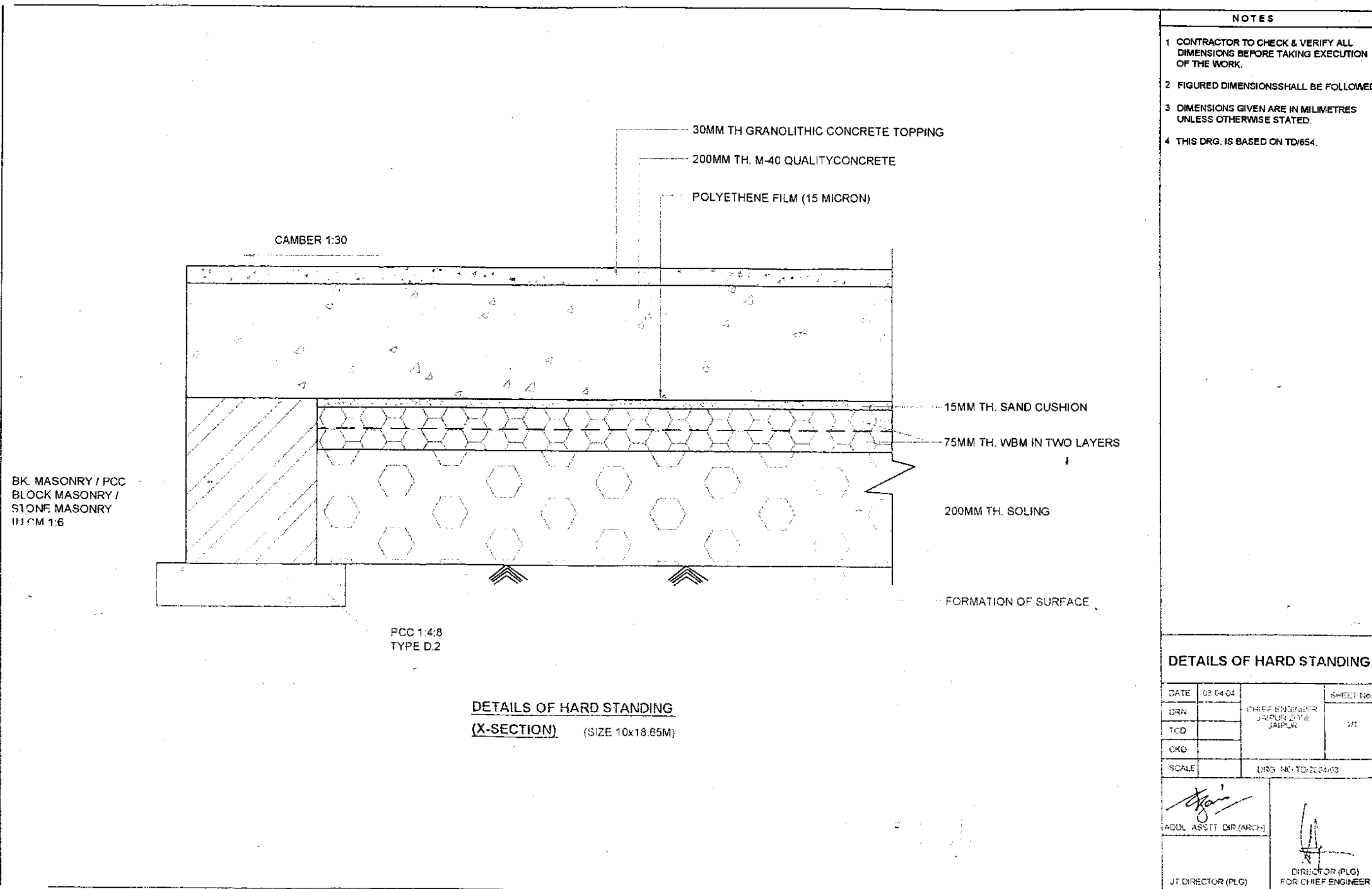


NOTES

- 1 CONTRACTOR TO CHECK & CO RELAT ALL DRGS. BEFORE TAKING UP WORK IN HAND AND EXECUTIVE.
- 2 INTERNAL ELECTRIFICATION WORK SHALL BE CARRIED OUT AS PER IS 732.
- 3 ALL ELECTRICAL FITTINGS / ACCESSORIES/SWITCHES AND WIRING ETC. SHALL BE LOCATED CLEAR OF DOORS / WINDOWS.
- 4 LAYOUT OF INTERNAL ELECTRIFICATION HAS BEEN MARKED FOR ONE QTR AND IT SHALL BE REPEATED SIMILARLY FOR OTHER QTR OF THE SAME TYPE/CATEGORY THE LAYOUT IS HOWEVER TENTATIVE& WORK SHALL FINILLY BE EXECUTED AS PER LAYOUT APPROVED BY GE& NO PRICE ADJUSTMENT SHALL BE ADMISSABLE ON THIS ACCOUNT.
- 5 MOUNTING HEIGHTS FOR VARIOUS ELECTRIC FITTINGS/FIXTURES ETC. SHALL BE AS PER IS .732/ E.I.N.C'S T1 HOWEVER SWITCHES / SOCKET OUTLETS/FAN REGULATORS SHALL BE MOUNTED IN SUCH WAY THAT THE BOTTOM OF SUNK TYPE TERMINAL BOX IS 10M FROM FFL.
- 6 TELEPHONE, CONDUIT (RIGID PVC CONCEALED IN WALLS) DULY PREWIRED SHALL BE PROVIDED WITH TELEPHONE SOCKET SUITABLY LOCATED IN DRG. ROOM.
- 7 RIGID PVC CONDUIT (200mm Ø) CONCEALED IN WALL INSIDE THE QTR & RIGID STEEL CONDUIT (20mm Ø) FIXED TO WALL OUTSIDE THE QTR SHALL BE PROVIDED FOR TV ANTINA TERMINATING SUITABLY IN DRG.
- 8 E/M FITTINGS & FIXTURES SHOWN IN ONE QTR SHALL BE REPEATED IN ALL OTHER QTRS.
- 9 LOCATION OF WATER METER BOX SHALL BE GIVEN BY ENGINEER IN CHARGE.
- 10 SOCKET/LIGHT POINT FOR GARRAGE SHALL BE THROUGH COMMON METER.
- 11 MAIN SWITCH BOARD & DISTRIBUTION SWITCH BOARD SHOULD BE FIXED IN METER BOXES.
- 12 TYPE OF WIRING SHALL BE AS GIVEN IN SCH.'A' AND PARTICULAR SPECIFICATION WITH FIXTURES ON SUNK TYPE BOXES.
- 13 THIS DRG. IS BASED ON TD - 634.

LEGENDS AND NOTES OF E/M SERVICES

DATE	08-04-04	CHIEF ENGINEER JAIPUR ZONE JAIPUR	SHEET No.
DRN			1/1
DESIGN			
CKD.			
SCALE		DRG No. TD/2004/53	
ADDL. ASSTT. DIR.(ARCH)		DIRECTOR (ARCH) FOR CHIEF ENGINEER	
JT. DIRECTOR (ARCH)			



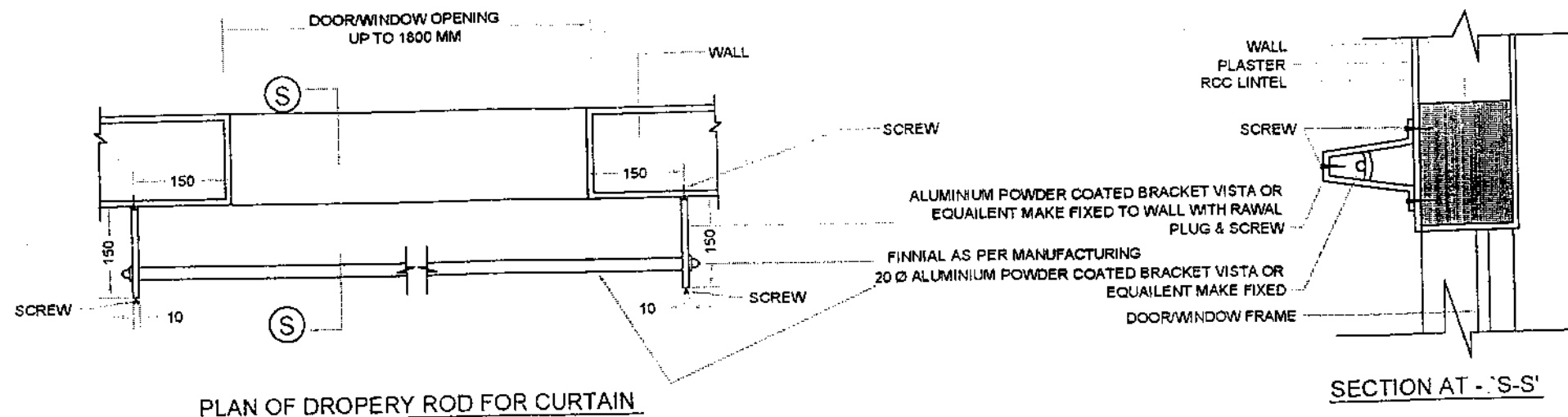
NOTES

- 1 CONTRACTOR TO CHECK & VERIFY ALL DIMENSIONS BEFORE TAKING EXECUTION OF THE WORK.
- 2 FIGURED DIMENSIONS SHALL BE FOLLOWED.
- 3 DIMENSIONS GIVEN ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
- 4 THIS DRG. IS BASED ON TD/654.

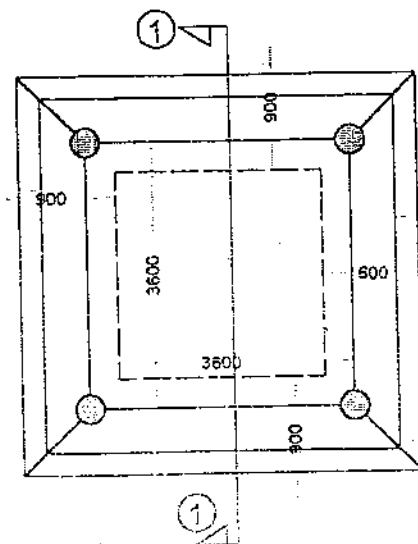
DETAILS OF HARD STANDING

DATE	03.04.04	CHIEF ENGINEER JAIPUR ZONE JAIPUR	SHEET No.
DRN			1/1
TCD			
CKD			
SCALE		DRG. NO. TD/2004/03	

J.T. DIRECTOR (PLG)	DIRECTOR (PLG) FOR CHIEF ENGINEER



RCC ROOF SLAB LAID TO SLOPE WITH TERRAKOTA TILES ON TOP AS SPECIFIED



STEPS

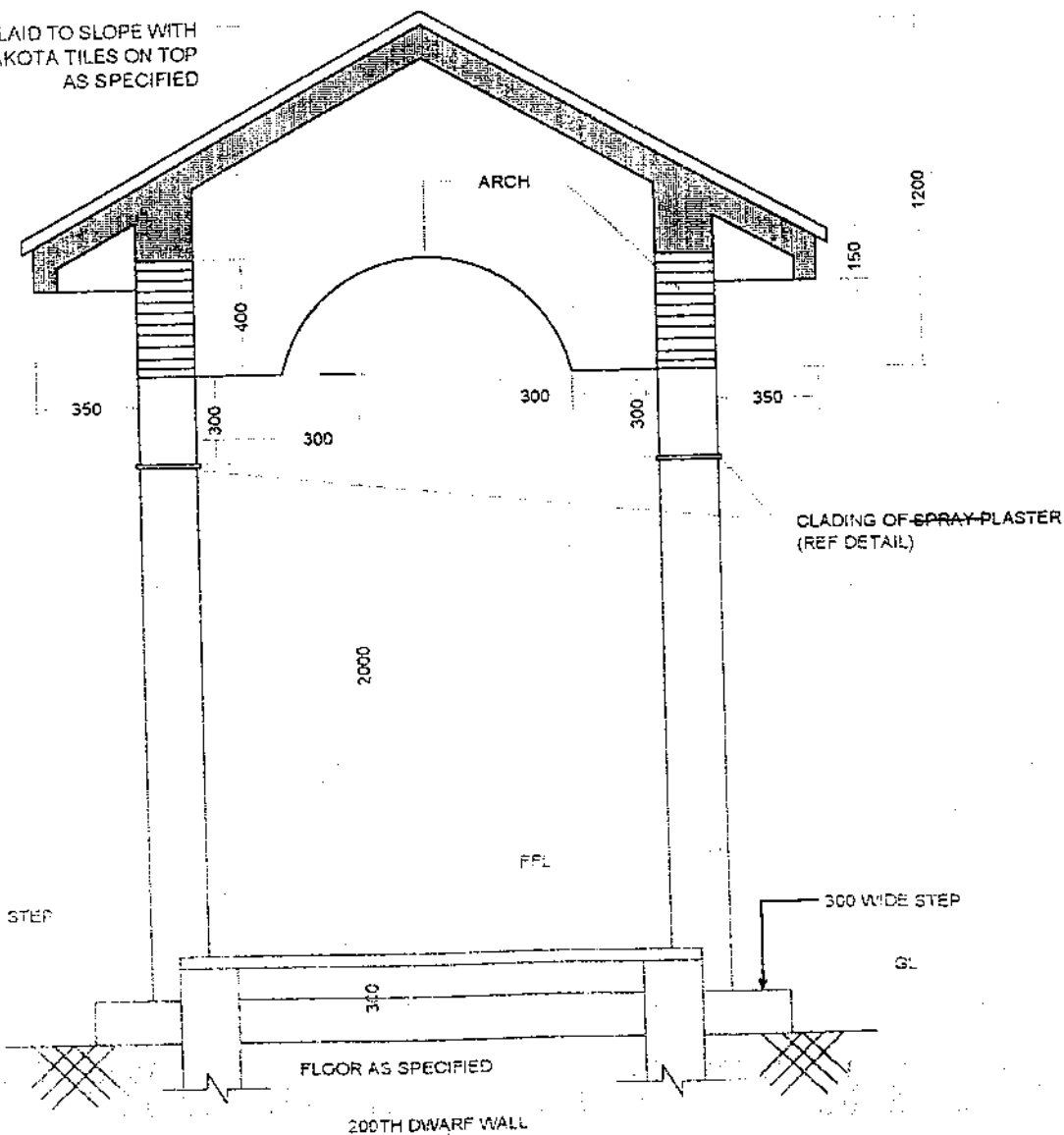
300 WIDE STEP

GL

FLOOR AS SPECIFIED

200TH DWARF WALL

SECTION AT 1-1



NOTES

- 1 CONTRACTOR TO CHECK AND VERIFY ALL THE DIMENSIONS BEFORE EXECUTION OF THE WORK.
- 2 FIGURED DIMENSIONS SHALL BE FOLLOWED.
- 3 ALL DIMENSIONS ARE GIVEN IN MILLIMETERS.
- 4 WALL THICKNESS SHALL BE AS INDICATED ON MAIN DRAWINGS OR AS SPECIFIED.
- 5 REFER TYPICAL DETAILS SHOWN IN THIS DRG AS APPLICABLE WHEN NOT SHOWN IN THE MAIN DRGS.
- 6 THE DETAILS/SPECIFICATION SHOWN IN THE MAIN DRGS SHALL SUPERCEDE THE DETAILS/SPECIFICATION SHOWN IN THIS DRG.
- 7 THIS DRG. IS BASED ON TD/655.

1	DATE	CORRECTED UP TO DATE	INITIAL
1	01/02/19		

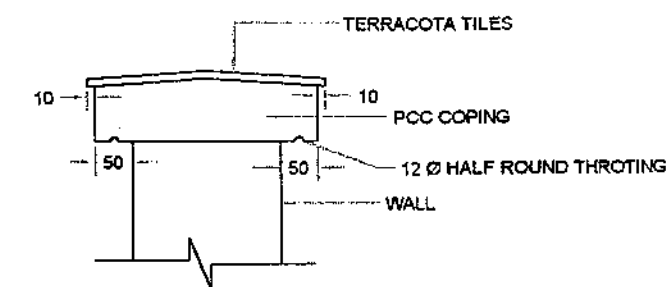
REVISION	DESCRIPTION	INITIAL
----------	-------------	---------

MISC TYPICAL DETAILS - 4

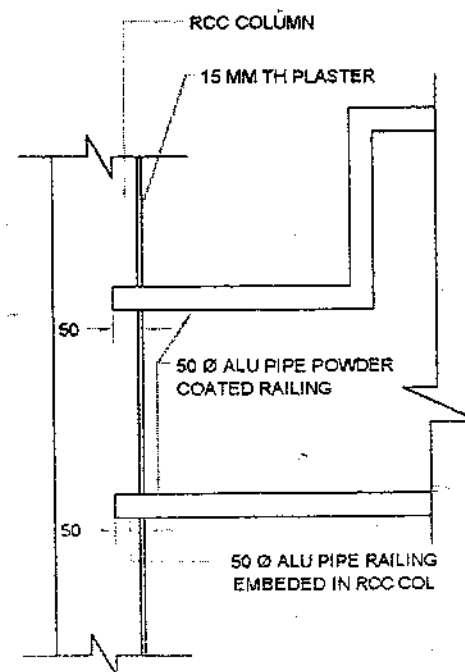
DETAIL OF ALU RAILING & ARCH, FIXING OF ALU RAILING WITH RCC COL, DETAIL AT 'P' PLAN OF OPEN BAR, PLAN OF DROPERY ROD FOR CURTAIN, TYPICAL DETAILS OF CHAJJA TYPE- 'CH', DETAIL OF PCC COPING TERRAKOTA ON TOP TYPE- '1', PLINTH PROTECTION TYPE- 1 & 2 AND DETAIL OF FLOWER BOX ETC.

DATE	REVISED	DESIGNER	CHECKED	SHEET NO
01/02/19		CHIEF ENGINEER	ARCHITECT	1/4
02/02/19				
03/02/19				
SCALE		DRG NO. TD/0004/64		

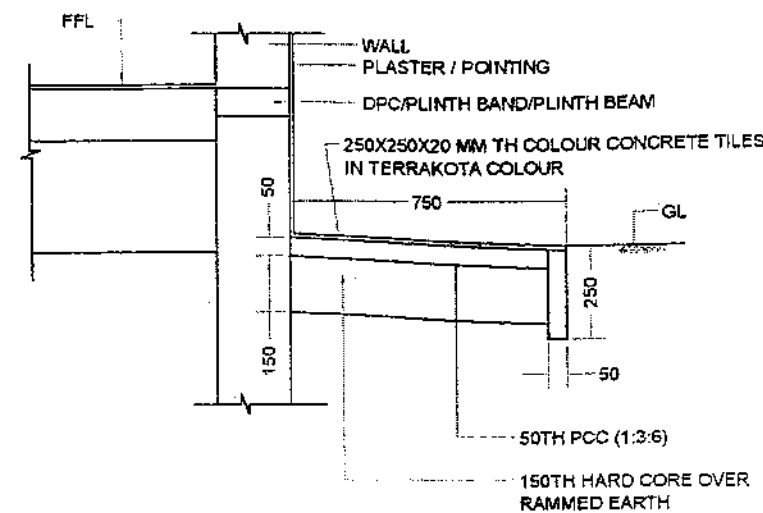
APPROVED BY (ARCH)	DIRECTOR (ARCH)
APPROVED BY (ARCH)	DIRECTOR (ARCH)



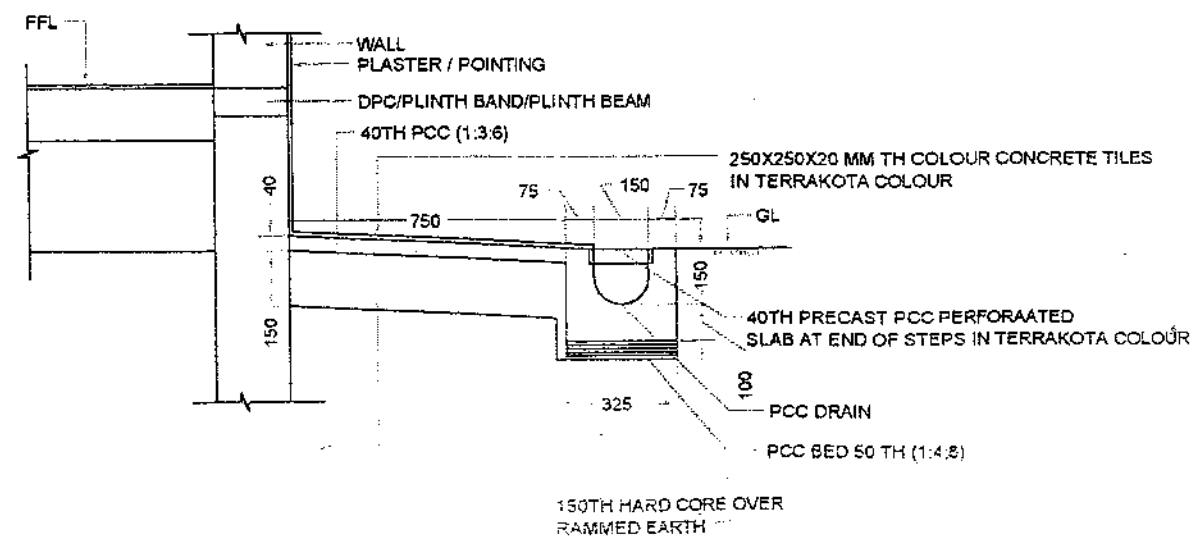
DETAIL OF PCC COPING
TERRAKOTA TILES ON TOP (TYPE-'1')



FIXING DETAIL OF ALU RAILING
WITH RCC COL



SECTION
PLINTH PROTECTION (TYPE-'2')



SECTION
PLINTH PROTECTION WITH DRAIN (TYPE-'1')

NOTES

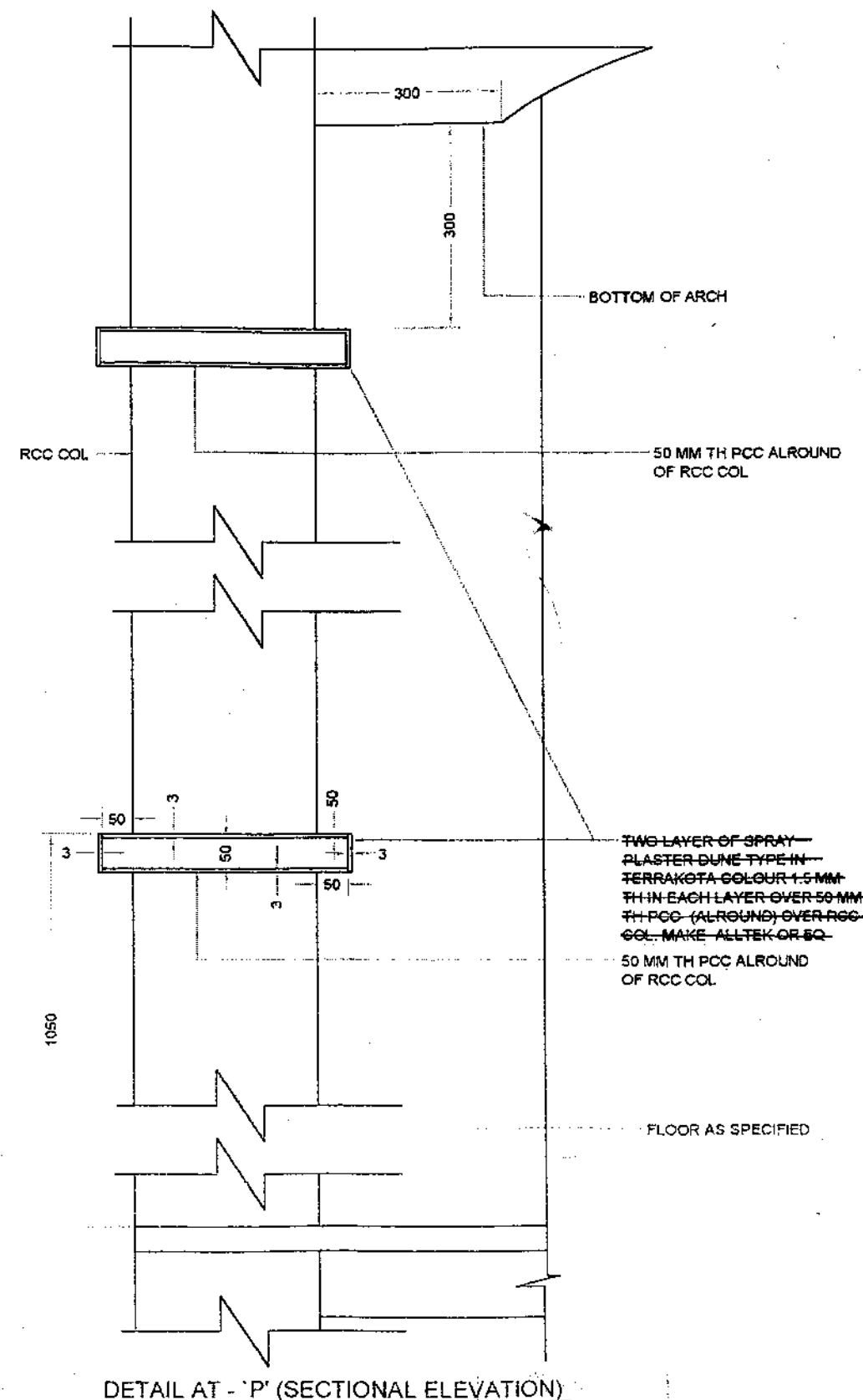
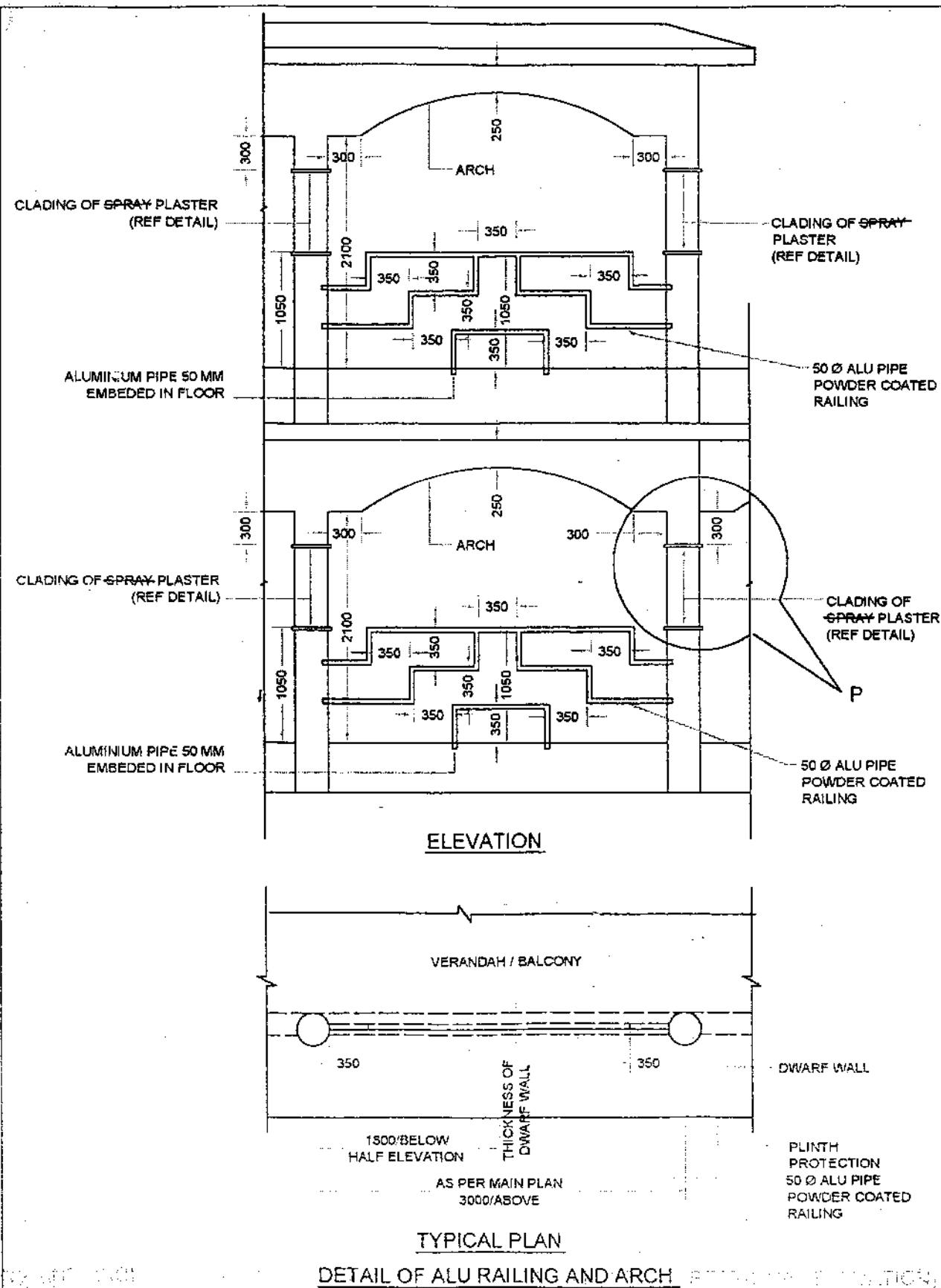
- 1 FOR NOTES REFER SHEET NO. 1/4 OF THIS DRG.

MISC TYPICAL DETAILS - 4

DETAIL OF ALU RAILING & ARCH, FIXING OF ALU RAILING WITH RCC COL, DETAIL AT 'P' PLAN OF OPEN BAR, PLAN OF DROPERY ROD FOR CURTAIN, TYPICAL DETAILS OF CHAJJA TYPE- 'CH', DETAIL OF PCC COPING TERRAKOTA ON TOP TYPE-'1', PLINTH PROTECTION TYPE- 1 & 2 AND DETAIL OF FLOWER BOX ETC.

DATE	08-04-04	CHIEF ENGINEER JAIPUR ZONE JAIPUR	SHEET No.
DRN			2/4
TCD			
CKD			
SCALE	DRG. NO TD/2004/64		

ADL. ASST. DIR (ARCH)	DIRECTOR (ARCH) FOR CHIEF ENGINEER
-----------------------	---------------------------------------



NOTES

- FOR NOTES REFER SHEET NO. 1/4 OF THIS DRG.

NO	DATE	DESCRIPTION	INITIAL
1.	09/04/04	CORRECTED UP TO DATE	SHR

REVISION

MISC TYPICAL DETAILS - 4

DETAIL OF ALU RAILING & ARCH, FIXING OF ALU RAILING WITH RCC COL, DETAIL AT 'P' PLAN OF OPEN BAR, PLAN OF DROPERY ROD FOR CURTAIN, TYPICAL DETAILS OF CHAJJA TYPE - 'CH', DETAIL OF PCC COPING TERRAKOTA ON TOP TYPE - '1', PLINTH PROTECTION TYPE - 1 & 2 AND DETAIL OF FLOWER BOX ETC.

DATE	09-04-04	CHIEF ENGINEER	SHEET No.
DRN		JAIPUR DOME	3/4
TCD		JAIPUR	
CKD			
SCALE		DRG NO. TD/2004/64	

ADDL ASSTT DIR (ARCH)	DIRECTOR (ARCH) FOR CHIEF ENGINEER
JT. DIRECTOR (ARCH)	

NOTES

1 FOR NOTES REFER SHEET NO. 1/4 OF THIS DRG.

MISC TYPICAL DETAILS - 4

DETAIL OF ALU RAILING & ARCH, FIXING OF ALU RAILING WITH RCC COL, DETAIL AT 'P' PLAN OF OPEN BAR, PLAN OF DROPPY ROD FOR CURTAIN, TYPICAL DETAILS OF CHAJJA TYPE- 'CH', DETAIL OF PCC COPING TERRAKOTA ON TOP TYPE- '1', PLINTH PROTECTION TYPE- 1 & 2 AND DETAIL OF FLOWER BOX ETC.

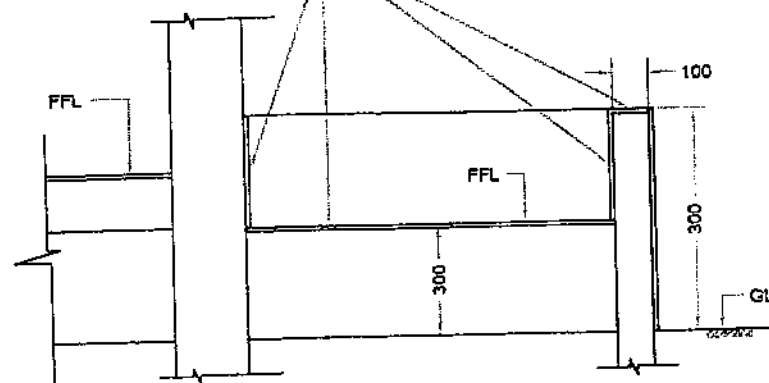
DATE	08-04-04	CHIEF ENGINEER JAIPUR ZONE JAIPUR	SHEET No
DRN			4/4
TCD			
CKD			
SCALE		DRG. NO. TDV2004/64	

ADDL. ASST. DIR. (ARCH)

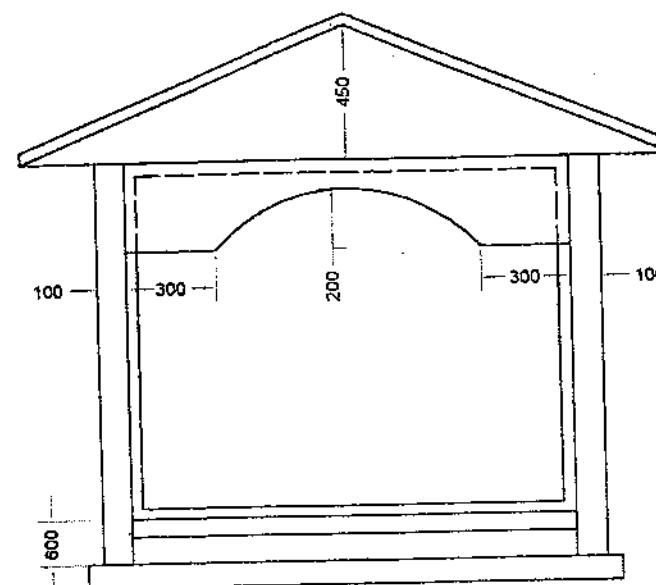
JT. DIRECTOR (ARCH)

DIRECTOR (ARCH)
FOR CHIEF ENGINEER

HALF THICKNESS OF WALL 600 HIGH FROM GL AND 10 TO 12 MM TH CLADING OF KOTA STONE INSIDE, OUTSIDE AND TOP OF THE FLOWER BOX TO BE PROVIDED

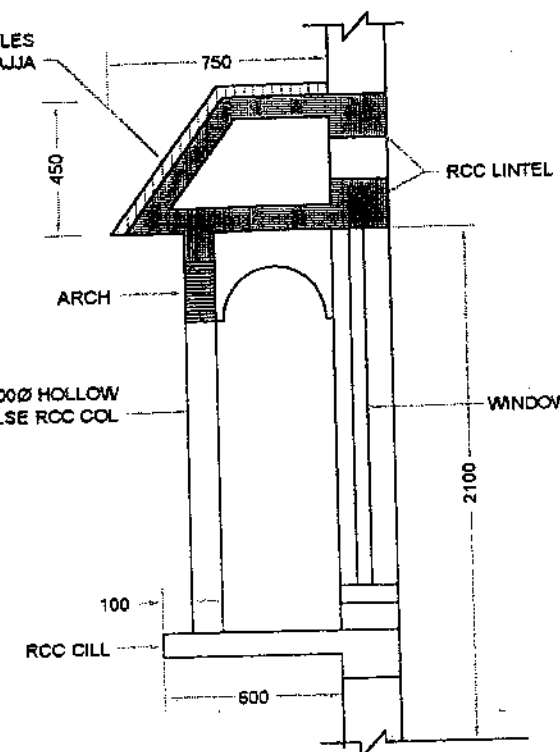


SECTION AT 'Y-Y'

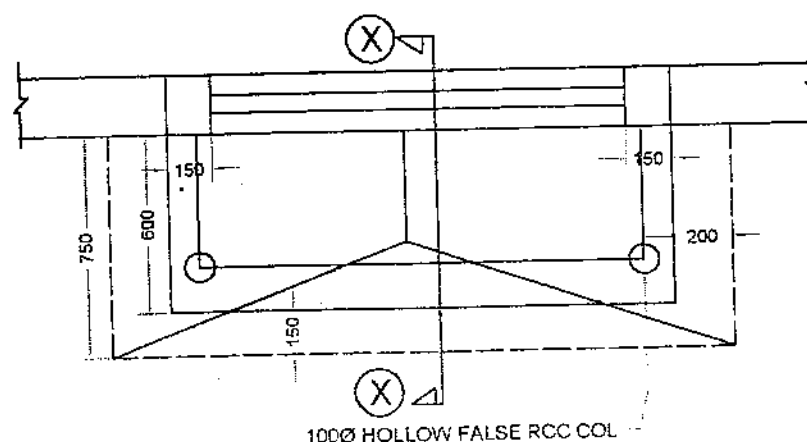


ELEVATION

TERRAKOTA TILES ON RCC CHAJJA



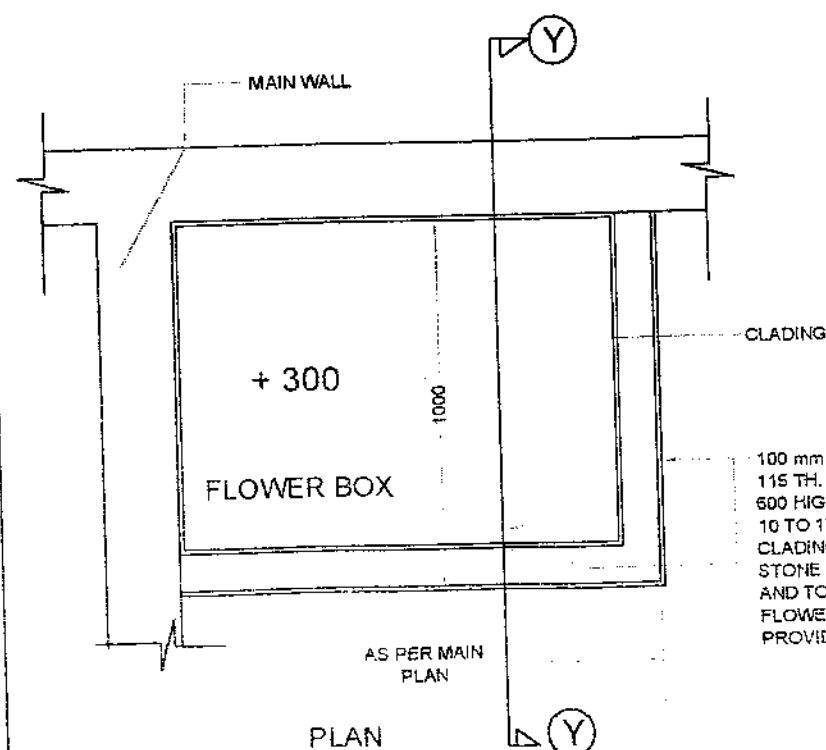
SECTION AT X-X



PLAN

TYPICAL DETAILS OF CHAJJA TYPE- 'CH'

+ 300
FLOWER BOX



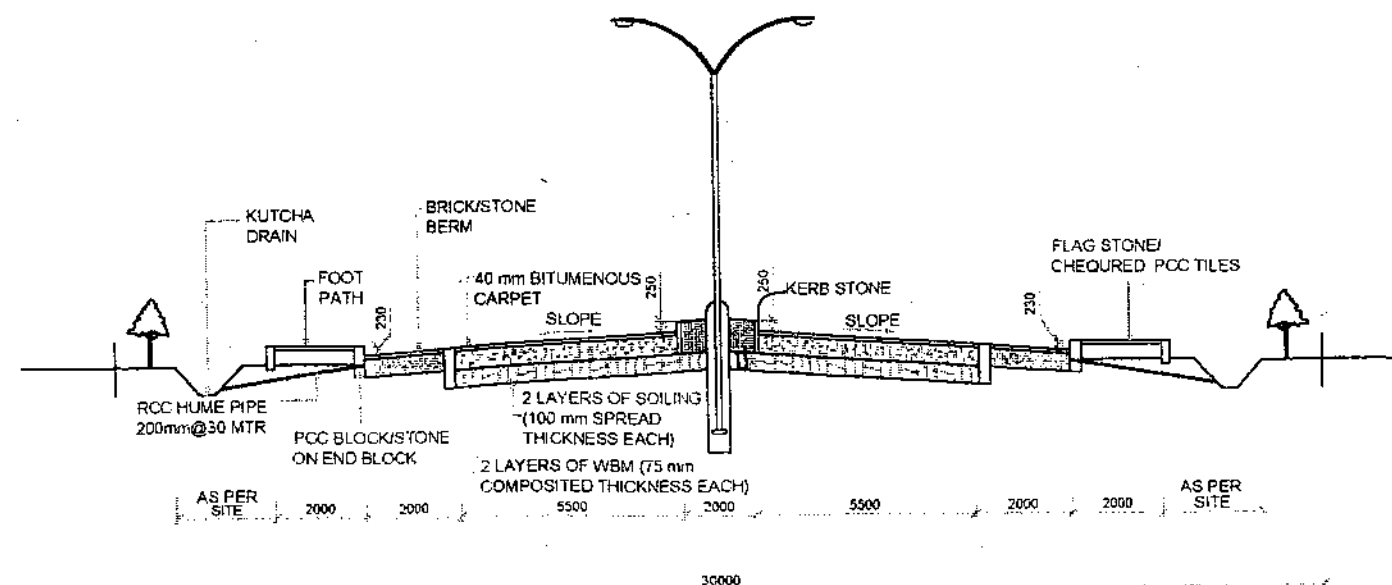
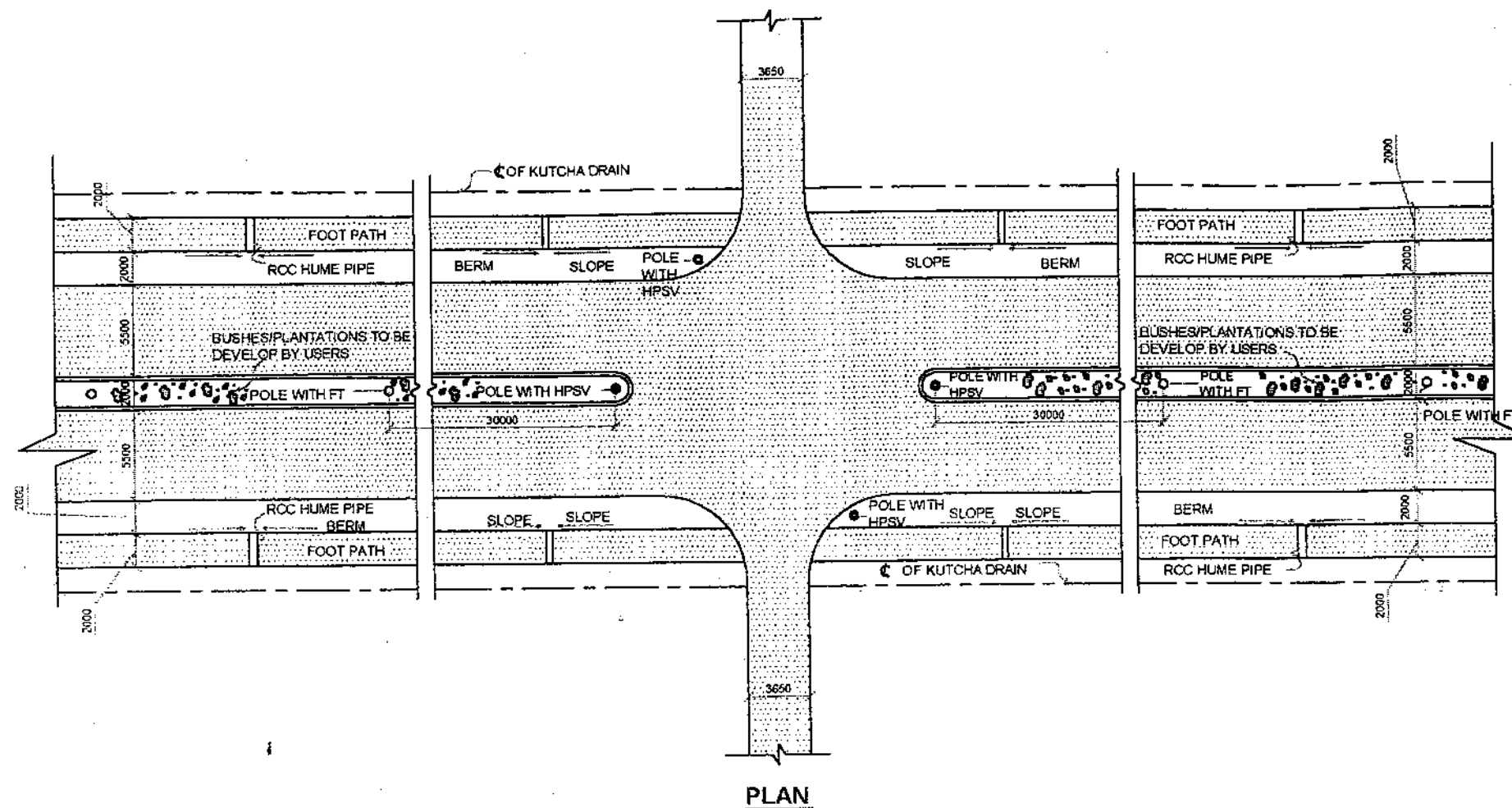
DETAIL OF FLOWER BOX

100 mm TH. PCC BLOCK / 115 TH. BRICK WALLING 600 HIGH FROM GL AND 10 TO 12 MM TH CLADING OF KOTA STONE INSIDE, OUTSIDE AND TOP OF THE FLOWER BOX TO BE PROVIDED

250X250X20 MM TH COLOUR CONCRETE TILES IN TERRAKOTA COLOUR



SECTION
DETAILS OF PATH TYPE- 'AA'



NOTES

- 1 CONTRACTOR TO CHECK & VERIFY ALL THE DIMENSIONS BEFORE TAKING EXECUTION OF WORK
- 2 FIGURED DIMENSIONS SHALL BE FOLLOWED
- 3 ALL DIMENSIONS ARE GIVEN IN mm.
- 4 BITUMINUS CARPET SHALL BE LAID BY PAVERS.
- 5 CUT IN DIVIDERS WILL BE DIVIDED BY GE INCONSULTATION WITH USERS.
- 6 FT DENOTES FLOURESCENT TUBE.
- 7 HPSV DENOTES HIGH PRESSURE SODIUM VAPOUR.
- 8 THIS DRG. IS BASED ON TD/668.

TYPICAL MAIN ROAD DETAILS(TWO WAY)

DATE	08-04-04	CHIEF ENGINEER JAIPUR ZONE JAIPUR	SHEET No.
DRN			
TCD			
CKD			
SCALE		DRG. NO. TD/2004/68	

ADDL. ASSTT. DIR (ARCH)	DIRECTOR (ARCH) FOR CHIEF ENGINEER
JT. DIRECTOR (ARCH)	

B-7

NOTES :-

1. GENERAL

- 1.1 ALL RCC WORKS SHALL BE DONE AS LAID DOWN IN "IS 456:2000" (AMENDED UPTO DATE) AND SP : 34 (S & T) -1987 (HAND BOOK ON CONCRETE REINFORCEMENT AND DETAILING)
- 1.2 THE CONTRACTOR AND EXECUTIVES SHALL CAREFULLY STUDY IN ADVANCE ALL THE RELEVANT DRAWINGS AND SPECIFICATIONS BEFORE COMMENCEMENT OF THE WORK. ANY DISCREPANCY OBSERVED SHALL BE BROUGHT TO THE NOTICE OF ACCEPTING OFFICER FOR CLARIFICATION.
- 1.3 ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE MENTIONED. WHEREVER ANY INDIAN STANDARD (IS) IS MENTIONED. IT WILL BE THE LATEST EDITION AS ON THE DATE OF ISSUE OF THE TENDER.
- 1.4 THE CONTENTS GIVEN IN THESE NOTES ARE APPLICABLE TO ALL STRUCTURAL DRAWINGS AND SHALL BE FOLLOWED UNLESS OTHERWISE SPECIFIED.
- 1.5 WHERE DETAILS GIVEN IN THE STRUCTURAL DRAWINGS ARE AT VARIANCE WITH THE NOTES GIVEN BELOW, THE DETAILS AS PER STRUCTURAL DRAWINGS SHALL BE FOLLOWED.
- 1.6 THE WORK SHALL BE EXECUTED ALL AS PER RELEVANT INDIAN STANDARDS AND IN ACCORDANCE WITH GOOD AND SOUND ENGINEERING PRACTICE. THE NOTES DESCRIBED BELOW HIGHLIGHT ONLY CERTAIN IMPORTANT ASPECTS AND THESE SHOULD NOT BE CONSTRUED AS THE ONLY PROVISIONS.
- 1.7 TESTS AS SPECIFIED IN RELEVANT (IS) CODES SHALL BE CONDUCTED.

2. MATERIALS

2.1 STEEL FOR REINFORCEMENT

a) THE STEEL REINFORCEMENT FOR ALL CEMENT CONCRETE WORKS SHALL BE HIGH YIELD STRENGTH DEFORMED STEEL BARS (Fe 415) CONFORMING TO IS -1786 -1985 OR THERMO MECHANICALLY TREATED (TMT) STEEL BARS. THE TMT BARS SHALL BE FROM THE FOLLOWING MANUFACTURERS AND OF FOLLOWING GRADE:

M/S SAIL - SAIL TMT 415

M/S TATA STEEL - TISCON 415

M/S RASHTRIYA ISPAT NIGAM LTD. - REBARS 415

b) THE YIELD STRESS (0.2% PROOF STRESS) OF TMT BARS SHALL BE 415 N/MM²

c) THIS WILL BE ENSURED THAT TWO TYPES OF THE BARS (DEFORMED BARS AND TMT BARS) WILL NOT BE USED IN A SINGLE MEMBER. ONLY ONE TYPE OF THE BARS WILL BE USED IN SINGLE MEMBER.

2.2 WATER

WATER USED IN CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF CLAUSE -5.4 OF IS-456:2000. SOURCE OF WATER SHALL BE GOT TESTED FOR ITS SUITABILITY BY THE CONTRACTOR EVEN IF IT IS ISSUED BY THE DEPARTMENT.

3.0 DURABILITY OF CONCRETE

3.1 THE CONCRETE SHALL BE DURABLE AND MUST PERFORM SATISFACTORILY IN THE WORKING ENVIRONMENT DURING ITS ANTICIPATED EXPOSURE CONDITIONS DURING SERVICE. THE MATERIALS AND MIX PROPORTIONS USED SHOULD BE SUCH AS TO MAINTAIN ITS INTEGRITY AND TO PROTECT EMBEDDED METAL FROM CORROSION.

3.2 THE STRUCTURAL DESIGNS ARE BASED ON EXPOSURE CONDITIONS AS MENTIONED BELOW. IF THERE IS ANY VARIATION IN THIS REQUIREMENT, THE SAME SHALL BE BROUGHT TO NOTICE OF ACCEPTING OFFICER.

a) ALL RCC WORK ABOVE - MILD ENVIRONMENT GROUND LEVEL

b) ALL RCC WORK BELOW - MODERATE ENVIRONMENT GROUND LEVEL

4.0 FIRE RESISTANCE OF STRUCTURE

STRUCTURAL DRAWINGS ARE BASED ON FIRE RESISTANCE RATING OF 1.0 HR. IF THERE IS ANY VARIATION TO THIS REQUIREMENT, THE SAME SHALL BE BROUGHT TO THE NOTICE OF THE ACCEPTING OFFICER.

5.0 CONCRETE MIX

5.1 THE GRADE OF CONCRETE FOR ALL RCC WORK SHALL BE AS SPECIFIED IN STRUCTURAL DRAWINGS IT SHALL NOT BE LEANER THAN M-25 EVEN IF LEANER CONCRETE IS MENTIONED IN DRAWING.

5.2 ALL CONCRETE USED FOR RCC WORK SHALL BE DESIGN MIX AS PER IS:456-2000. DESIGN OF MIX SHALL BE DONE AS PER SP 23 (S & T)-1982 OF BIS & IS-10262.

5.3 FREQUENCY OF SAMPLING OF CONCRETE AND ITS ACCEPTANCE CRITERIA SHALL BE AS PER CLAUSE 15 AND 16 OF IS:456-2000 RESPECTIVELY.

5.4 WEIGH BATCHING SHALL BE ADOPTED FOR THE DESIGN- MIX CONCRETE, LEVER TYPE WEIGH BATCHER SHALL BE PREFERRED TO DIAL TYPE BATCHER. WATER SHALL BE ADDED AFTER ACCOUNTING FOR MOISTURE IN AGGREGATES.

5.5 CONCRETE FOR ALL RCC WORK SHALL BE MIXED IN A MECHANICAL MIXER. THE MIXER SHALL CONFIRM TO IS: 1791. THE MIXING SHALL BE CONDUCTED TILL A UNIFORM DISTRIBUTION OF MATERIALS IS ACHIEVED AND THE MASS IS UNIFORM IN COLOUR AND CONSISTENCY.

5.6 ALL LEAN CONCRETE IN FOUNDATIONS SHALL BE (1:4:8) NOMINAL MIX, UNLESS OTHERWISE SPECIFIED IN THE DRAWINGS.

6.0 FORM WORK

6.1 FORM WORK FOR CONCRETE SHALL HAVE ADEQUATE STRENGTH AND RIGIDITY TO SAFELY WITHSTAND FORCES DUE TO POURING AND COMPACTION OF CONCRETE. THE ENTIRE FORM WORK SHALL BE DESIGNED TO WITHSTAND MOST ADVERSE COMBINATION OF DEAD LOAD, LIVE LOAD, CONSTRUCTION LOADS INCLUDING IMPACT LOAD, EFFECT OF VIBRATIONS, COMPACTION, FLUID PRESSURE OF CONCRETE AND WIND LOAD. THE JOINTS/JUNCTION OF FORM WORK SHALL BE APPROPRIATELY SEALED TO AVOID LEAKAGE OF SLURRY/PASTE FROM CONCRETE WHEN POURED. ALL FORM WORK INCLUDING SUPPORTS/PROPS, SCHEME OF ERECTION AND REMOVAL OF FORM WORK SHALL BE APPROVED BY GE.

6.2 THE PERMISSIBLE TOLERANCE SHALL BE AS PER CLAUSE 11.1 OF IS:456-2000.

6.3 ONLY STEEL PROPS SHALL BE USED FOR SUPPORTING THE FORM WORK SPECIAL CARE IS TO BE TAKEN TO ENSURE THAT JOINTS IN PROPS ARE ADEQUATELY STRONG AND STIFF. THE PROPS SUPPORTING THE FORM WORK SHALL BE BRACED TRANSVERSALLY IN BOTH DIRECTIONS AT SUITABLE INTERVALS TO PREVENT FAILURE BY BUCKLING.

6.4 SPECIAL CARE IS TO BE TAKEN IN PROVIDING THE FORM WORK FOR LARGE SPANS AND FOR HEIGHTS MORE THAN 4 METERS.

6.5 THE FORM WORK OF THE SLABS SHALL BE SO RAISED AT CENTRE TO CATTER FOR THE DEFLECTION OF THE SLAB AT CENTRE.

7. CONCRETING WORK

7.1 QUALITY ASSURANCE MEASURES

QUALITY ASSURANCE MEASURES IN PRODUCTION OF CONCRETE SHALL BE TAKEN ALL AS SPECIFIED IN CLAUSE 10.1 OF IS: 456 - 2000.

7.2 POURING AND COMPACTION

7.2.1 THE SCHEME OF POURING CONCRETE SHALL BE APPROVED BY THE GE. IT SHALL BE ENSURED THAT DURING CONCRETING THERE IS NO SEGREGATION OF ITS CONSTITUENTS.

7.2.2 IN CASE OF BEAMS, CONCRETE SHALL BE POURED STARTING FROM SUPPORTS AND CONTINUED TOWARDS MID SPAN

7.2.3 IN CASE OF CANTILEVERS, CONCRETE SHALL BE POURED STARTING AT THE FIXED END AND MOVING TOWARDS FREE END.

7.2.4 AS FAR AS POSSIBLE ALL CONCRETING SHALL BE DONE IN ONE OPERATION UPTO THE PRE DECIDED STAGE AS PER CLAUSE 13.4 OF IS:456-2000.

7.2.5 IF A CONSTRUCTION JOINT IS NECESSARY, IT SHALL ALWAYS BE PROVIDED IN THE ZONE OF MINIMUM BENDING STRESS. ALL CONSTRUCTION JOINT SHOULD COMPLY WITH IS:11817.

7.2.6 ALL CONCRETE FOR RCC WORK SHALL BE COMPACTED USING APPROPRIATE TYPE OF VIBRATORS, SO AS TO ACHIEVE DENSE AND COMPACT CONCRETE AROUND REINFORCEMENT, ANY EMBEDDED FIXTURE AND TO THE SIDE OF FORM WORK. VIBRATORS FOR COMPACTION OF CONCRETE SHALL COMPLY WITH THE REQUIREMENT OF IS:2505, IS:2514 AND IS:4656.

7.2.7 OVER VIBRATION MAY LEAD TO SEGREGATION OF CONCRETE AND SHOULD BE AVOIDED. UNDER VIBRATION WILL ALSO NOT GIVE THE NECESSARY COMPACTION. PROPER VIBRATION TO ACHIEVE A DENSE AND VOID FREE CONCRETE SHALL BE ENSURED.

7.2.8 CONCRETE ONCE LAID AND COMPACTED SHALL NOT BE DISTURBED OR REMOLDED.

7.2.9 ANY PIPE, DUCT OR ANY OTHER FIXTURE TO BE FIXED OR TAKEN THROUGH A RCC/PCC MEMBER SHALL BE INITIALLY PLACED IN POSITION BEFORE CONCRETING. CONCRETE ONCE CAST AND HARDENED SHALL NOT BE BROKEN/ DAMAGED TO PROVIDE OPENING FOR PIPES ETC.

7.2.10 IN CASE THE ADJOINING MEMBER IS HAVING DIFFERENT GRADE OF CONCRETE. THE RICHER CONCRETE SHALL BE POURED AND COMPACTED FIRST BY CONTAINING THE CONCRETE WITH THE HELP OF STOP BOARDS.

1	11-05-04	CORRECTED UPTO DATE	
S.NO	DATE	DESCRIPTION	INITIAL
REVISION			
TYPICAL RCC DETAILS AND NOTES			
DATE	08-04-04	SHEET No.	
DRN.		CHIEF ENGINEER	1/6
TCD.		JAIPUR ZONE	
CKD.		JAIPUR	
SCALE		DRG. NO. CEJZ/2004/TD/S/8	
Jt. Director (Design)		Director (Design) For Chief Engineer	

NOTES :-

7.3 CURING OF CONCRETE

7.3.1 ALL CONCRETE MEMBER SHOULD BE ADEQUATELY CURED ALL AS SPECIFIED IN CLAUSE 13.5 OF IS:456- 2000. THE CURING SHALL BE DONE IN THE MANNER DESCRIBED AS BELOW.

7.3.1.1 **MOIST CURING:-** EXPOSED SURFACES OF CONCRETE SHALL BE KEPT CONTINUOUSLY IN A DAMP OR WET CONDITION BY PONDING OR BY COVERING WITH A LAYER OF SACKING, CANVAS, HESSIAN OR SIMILAR MATERIALS AND KEPT CONSTANTLY WET FOR AT LEAST SEVEN DAYS FROM THE DATE OF PLACING CONCRETE IN CASE OF ORDINARY PORTLAND CEMENT AND AT LEAST 10 DAYS WHERE MINERAL ADMIXTURES OR BLENDED CEMENTS ARE USED. THE PERIOD OF CURING SHALL NOT BE LESS THAN 10 DAYS FOR CONCRETE EXPOSED TO DRY AND HOT WEATHER CONDITIONS IN THE CASE OF CONCRETE WHERE MINERAL ADMIXTURE OR BLENDED CEMENTS ARE USED, IT IS RECOMMENDED THAT ABOVE MINIMUM PERIODS MAY BE EXTENDED TO 14 DAYS.

7.3.1.2 **MEMBRANE CURING-** MEMBRANE CURING WILL BE RESORTED TO IN THE WORST CONDITION OF NON-AVAILABILITY OF WATER. APPROVED CURING COMPOUNDS MAY BE USED IN LIEU OF MOIST CURING WITH THE PERMISSION OF THE GARRISON ENGINEER. SUCH COMPOUNDS SHALL BE APPLIED TO ALL EXPOSED SURFACES OF THE CONCRETE AS SOON AS POSSIBLE AFTER THE CONCRETE HAS SET IMPERMEABLE MEMBRANE SUCH AS POLYETHYLENE SHEETING COVERING CLOSELY THE CONCRETE SURFACE MAY ALSO BE USED TO PROVIDE EFFECTIVE BARRIER AGAINST EVAPORATION.

7.3.1.3 REQUIREMENT OF MEMBRANE CURING OR ANY OTHER SPECIAL CURING, WHEREVER REQUIRED, SHALL BE SEPARATELY SPECIFIED IN THE TENDER.

8. FABRICATION AND DETAILING OF STEEL REINFORCEMENT

8.1 GENERAL

8.1.1 ALL REINFORCEMENT IN RCC WORK SHALL BE CORRECTLY INCORPORATED AS PER DETAILS GIVEN IN THE STRUCTURAL DRAWINGS. IT SHALL BE FABRICATED IN CONFORMITY WITH IS : 2502 AND IS : 5525.

8.1.2 A BAR ONCE HOOKED OR CRANKED SHALL NOT BE STRAIGHTENED AND USED AGAIN.

8.1.3 BAR BENDING SCHEDULE SHALL BE PREPARED FOR ALL REINFORCEMENT WORK.

8.1.4 IT SHALL BE ENSURED THAT THE REQUIRED COVER TO REINFORCEMENT IS PROVIDED.

8.1.5 IT SHALL BE ENSURED THAT WHILE CONCRETING THE BARS ARE NOT DISPLACED OR DISTURBED FROM POSITION DUE TO MOVEMENT OF WORKERS/EQUIPMENT ETC. ADEQUATE TEMPORARY WORKING PLATFORM SHALL BE PROVIDED FOR WORKERS/EQUIPMENT. SPECIAL CARE IS TO BE TAKEN IN CASE OF CANTILEVER SLABS & BEAMS.

8.1.6 BARS PROJECTING FROM MEMBERS SHALL NOT BE BENT OUT OF SHAPE/POSITION AND SHALL BE ADEQUATELY HELD IN PLACE.

8.1.7 ALL REINFORCEMENT MARKED THUS # ARE HIGH YIELD STRENGTH DEFORMED BARS (FE- 415) CONFORMING TO IS : 1786 OF 1985 OR BARS SPECIFIED IN CLAUSE 2.1 OF THIS DRAWING. IF THE BARS ARE NOT MARKED AS #, THEY SHALL BE TREATED AS "B" MARKED.

8.1.8 NO LAPS SHALL BE PROVIDED IN THE STEEL REINFORCEMENT BARS HAVING REQUIRED LENGTH UPTO 10 MTRS. IN CASE THE REQUIRED BARS LENGTH IS MORE THAN 10 MTRS THE LAPS MAY BE PROVIDED IN THE ZONE HAVING MINIMUM BENDING STRESSES. FURTHER NOT MORE THAN 50 % OF THE STEEL BARS SHALL BE SPICED AT ANY SECTION/ZONE. THE SPICING SHALL BE DONE AS SHOWN IN SP-34 (S&T)-1987. HOWEVER IF ANY LAP DETAILS ARE GIVEN IN THE STRUCTURAL DRAWINGS, THE SAME SHALL BE FOLLOWED STRICTLY. INCASE THE SHOWN LENGTH OF BARS ARE NOT AVAILABLE, THE MATTER SHALL BE REFERRED TO THE ACCEPTING OFFICER BEFORE EXECUTION OF WORK.

8.1.9 ONLY FRESH STEEL SHALL BE USED IN RCC WORKS.

8.1.10 BARS BENDING SCHEDULE SHALL BE APPROVED BY ENGINEER-IN-CHARGE BEFORE COMMENCEMENT OF ANY REINFORCEMENT WORK.

8.1.11 THE DEVELOPMENT LENGTH (ld) AND THE LAP LENGTH FOR THE REINFORCEMENT SHALL BE ADOPTED AS 47 TIMES OF DIAMETER OF BAR FOR M-20 GRADE CONC. & 41 TIMES THE DIAMETER OF THE BAR FOR M-25 GRADE CONC. FOR ALL TYPE OF BARS WITHOUT CONSIDERING THE HOOK ALLOWANCE. FOR EACH 45° BEND ALLOW 4 Ø (4 TIMES DIA.) LESS DEVELOPMENT LENGTH.

9. STRIPPING OF SHUTTERING

9.1 STRIPPING TIME SHALL BE IN ACCORDANCE WITH CLAUSE 11.3 OF IS: 456-2000 AND MAY BE MODIFIED BY GE, DEPENDING UPON THE SITE CONDITIONS, WEATHER & TYPE OF CEMENT, ETC. IN GENERAL MINIMUM PERIOD BEFORE STRIKING FORM WORK SHALL BE AS GIVEN BELOW :-

TYPE OF FORM WORK	MINIMUM PERIOD BEFORE STRIKING OF FORM WORK
VERTICAL FORM WORK TO COLUMNS, WALLS, BEAMS.	16-24 HOURS.
SOFFIT FORMWORK TO SLABS (PROPS TO BE REFIXED IMMEDIATELY AFTER REMOVAL OF FORMWORK)	3 DAYS.
SOFFIT FORMWORK TO BEAM (PROPS TO BE REFIXED IMMEDIATELY AFTER REMOVAL OF FORMWORK).	7 DAYS.
PROPS TO SLABS :	
SPANNING UP TO 4.5 M	7 DAYS.
SPANNING OVER 4.5 M	14 DAYS.

PROPS TO BEAMS AND ARCHES:-

SPANNING UP TO 6 M	14 DAYS.
SPANNING OVER 6 M	21 DAYS.

9.2 PROPS OF CANTILEVER SLAB/BASE SHALL BE REMOVED ONLY AFTER THE WALL ABOVE THE BEAM/COUNTER WEIGHT HAS BEEN CONSTRUCTED

9.3 IN CASE OF CANTILEVER BEAM/SLAB, THE FORM WORK SHALL BE REMOVED STARTING FROM FREE END SIDE ONLY.

10. PANEL WALLS (IN RCC FRAMED STRUCTURES)

10.1 MASONRY PANEL WALLS SHALL BE CONSTRUCTED AS SPECIFIED IN DRAWINGS/TENDER AND ALL AS PER SSR, UNLESS OTHERWISE MENTIONED IN TENDER/DRAWINGS, THE MIX OF CEMENT MORTAR SHALL BE (1:6) FOR WALLS ONE BRICK THICK (OR EQUIVALENT) OR MORE AND (1:4) FOR WALLS HALF BRICK THICK (OR EQUIVALENT).

10.2 AT THE JUNCTION OF COLUMN AND MASONRY PANEL WALL 40 MM X 3 MM F.I. DOWEL BARS AT EVERY @ (100/115 mm THICK) FOURTH COURSE IN BRICK WALL AND AT EVERY 400 MM IN PCC BLOCK WALL SHALL BE PROVIDED ALL AS SHOWN IN TD DRGS.

10.3 **HALF BRICK WALL-** THE FOLLOWING PROVISIONS SHALL BE MADE IN HALF BRICK WALLS AND 100 THICK PCC BLOCK WALL.

A) THIS WALL SHALL BE RAISED OFF THE SUB FLOOR IN GF AND OFF THE SLAB IN OTHER CASES. HALF BRICK WALL SHALL HAVE TWO 8 MM DIA DEFORMED BARS AT EVERY 4TH COURSE IN HALF BRICK WALL AND 400 MM HEIGHT IN 100 MM THICK PCC BLOCK WALL.

B) AT LINTEL LEVEL, RCC BAND AS PER FIGURE IN SHEET NO.3/6 SHALL BE PROVIDED WHERE RCC LINTEL BEAM IS NOT SHOWN IN STRUCTURAL DRGS. THE LONGITUDINAL BARS SHALL BE ANCHORED FULLY INTO THE MAIN

WALL/COLUMNS UNLESS OTHERWISE SPECIFIED. C) IF THE LENGTH OF THE WALL EXCEEDS 3.0 M IN PLAN WHICH IS UN SUPPORTED IN PERPENDICULAR DIRECTION, THE VERTICAL BAND OF SIZE 115 X 115 & 100 X 100 SHALL BE PROVIDED FOR ½ BRICK WALL AND 100 TH PCC BLOCK WALL RESPECTIVELY AS PER FIG IN NEXT SHEET. THIS BAND SHOULD BE ANCHORED IN SLAB/BEAM/SUB BASE AT BOTTOM. THE BAND SHALL BE ANCHORED WITH ONE 10 MM DIA BAR AT TOP TO HOLD IT IN POSITION. IN ORDER TO AVOID TRANSFER OF ANY LOAD THROUGH THIS BAND, THE TOP 200 MM HEIGHT OF BAND SHALL BE CASTED AFTER ADDING ALL THE DEAD LOAD ON THE FLOORS ABOVE IT.

D) THE LAST COURSE OF THE WALL SHALL BE BUILT AFTER THE FORM WORK UNDER NEATH THE SLABS OR BEAMS IS REMOVED.

E) THE HIDDEN BEAM SHALL BE PROVIDED IN THE SLAB AS SHOWN IN FIG IN NEXT SHEET.

10.4 **230 THICK BRICK WALL/ 200 THICK PCC BLOCK WALL**

A) WHEREVER THE UNSUPPORTED LENGTH OF WALL IS MORE THAN 4.70 MTR, THE VERTICAL BANDS SHALL BE PROVIDED IN THE WALL AS

SHOWN IN FIG IN SHEET NO.3/6 THE LOCATION OF VERTICAL BANDS SHALL BE DECIDED SO THAT THE UNSUPPORTED LENGTH DOES NOT EXCEED 4 MTR. THIS BAND SHOULD BE ANCHORED IN SLAB/BEAMS/SUB BASE AT BOTTOM. THE BAND SHALL BE ANCHORED WITH ONE 10 MM DIA BAR AT TOP TO HOLD IT IN POSITION. IN ORDER TO AVOID TRANSFER OF ANY LOAD THROUGH THIS BAND, THE TOP 200 MM HEIGHT OF BAND SHALL BE CASTED AFTER ADDING ALL THE DEAD LOAD ON THE FLOORS ABOVE IT.

B) THE LINTEL BAND SHALL BE PROVIDED AS SHOWN IN FIG IN NEXT SHEET. IF THE LINTEL BAND HAS NOT BEEN SPECIFIED IN THE STRUCTURAL DRAWINGS, THE LONGITUDINAL BARS SHALL BE ANCHORED FULLY INTO THE MAIN WALL / COLUMNS UNLESS OTHERWISE SPECIFIED.

11. SIDE FACE REINFORCEMENT IN BEAMS

11.1 WHERE THE DEPTH OF THE WEB IN A BEAM EXCEEDS 600 MM, REINFORCEMENT SHALL BE PROVIDED ALONG THE TWO FACES. TOTAL AREA OF SUCH REINFORCEMENT SHALL NOT BE LESS THAN 0.1% OF WEB AREA AND SHALL BE DISTRIBUTED EQUALLY ON TWO FACES AT A SPACING NOT EXCEEDING 300 MM OR WEB THICKNESS WHICHEVER IS LESS. REFER FIG IN NEXT SHEET.

12. SEISMIC PROVISION & DUCTILITY REQUIREMENT

12.1 THE ABOVE NOTES DO NOT COVER SEISMIC PROVISIONS IN LOAD BEARING WALLS OR DUCTILITY REQUIREMENTS IN RCC MEMBERS FOR THIS PURPOSE REFERENCE MAY BE MADE TO IS: 1893, IS:4326 & IS:13920. SEPARATE DRAWINGS SHALL BE ATTACHED INDICATING SEISMIC PROVISIONS & MODIFICATION TO ABOVE NOTES SUITABLY

13. STRUCTURAL AND TD DRAWINGS

A) STRUCTURAL DRGS WILL HAVE PRECEDENCE OVER TD DRGS.
B) DETAILS IN TD DRGS WILL BE FOLLOWED WHERE THE SAME ARE NOT AVAILABLE IN THE STRUCTURAL DRGS.

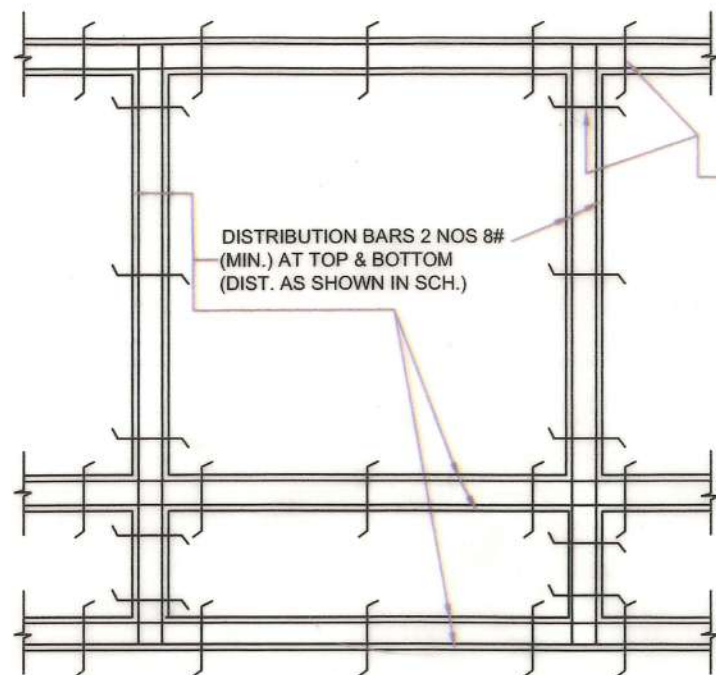
14. PANEL WALLS SHALL BE CONSTRUCTED AFTER THE FORM WORK & SCAFFOLDING OF THE SLABS/BEAMS ABOVE IT HAS BEEN REMOVED FULLY FOR THE WHOLE FLOOR. A GAP OF 12 MM SHALL BE LEFT BETWEEN THE SOFFIT OF RCC BEAMS/SLABS & TOP THE WALL WHICH WILL BE FILLED UP WITH WEAK MORTAR. NO VERTICAL LOAD FROM ANY BEAM SHALL BE ALLOWED TO BE TRANSFERRED TO THE PANEL WALL.

TYPICAL RCC DETAILS AND NOTES

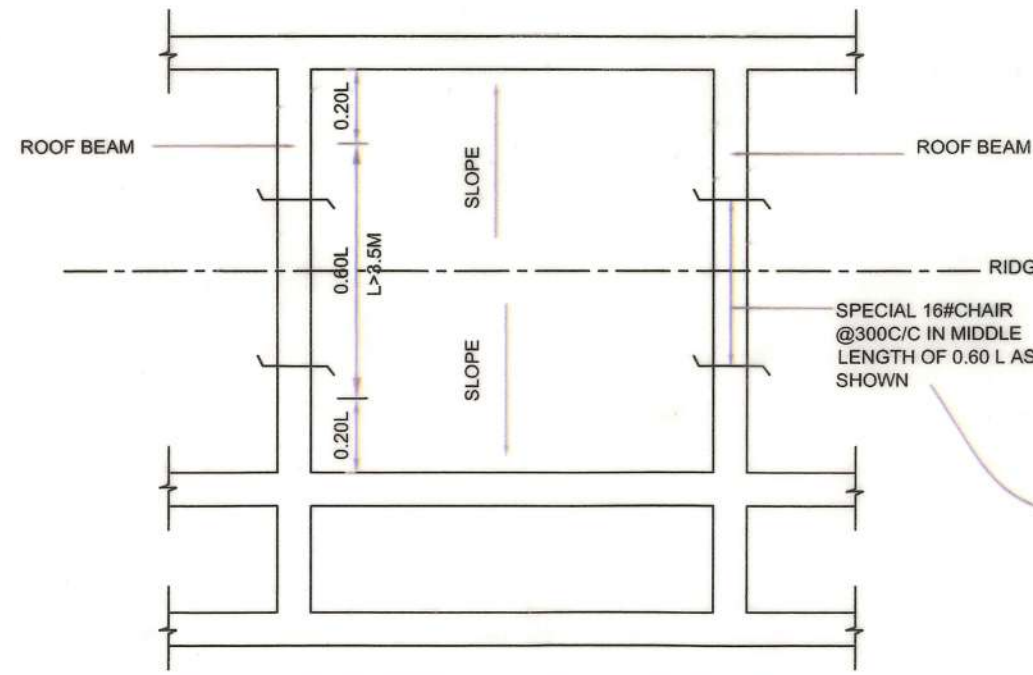
DATE	08-04-04	SHEET No.
DRN.	CHIEF ENGINEER JAIPUR ZONE JAIPUR	2/6
TCD.		
CKD.		
SCALE	DRG. NO. CE/J2/2004/TD/S/8	
<div> </div>		
<div> Addl. Asstt. Dir(Arch) Director (Design) Director (Design) For Chief Engineer </div>		

S.NO	DATE	DESCRIPTION	INITIAL
2	23-6-08	IN NOTE NO 10.2, "Ø (100/115 mm THICK)" ADDED.	
1	11-05-04	CORRECTED UPTO DATE	
REVISION			

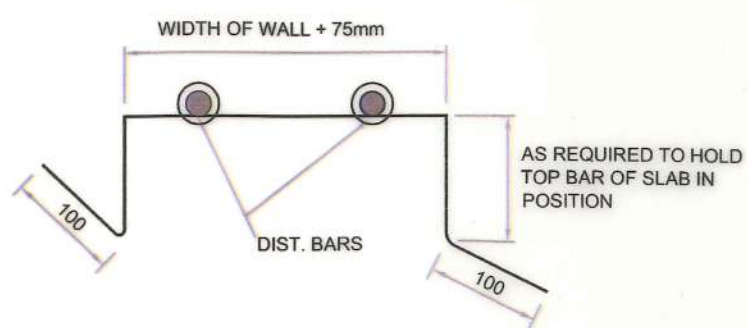
B-9



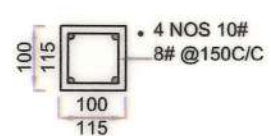
- NOTES:-
1. THIS IS IN ADDITION TO THE NORMAL CHAIRS TO BE PROVIDED.
 2. THE SPECIAL CHAIR SHALL NOT BE PROVIDED WHEN SLAB HIDDEN BEAM ON LOAD BEARING WALLS ARE PROVIDED AS PER DRG. NO. CEJZ/2004/TD/S-7 SHT.NO.5/6.



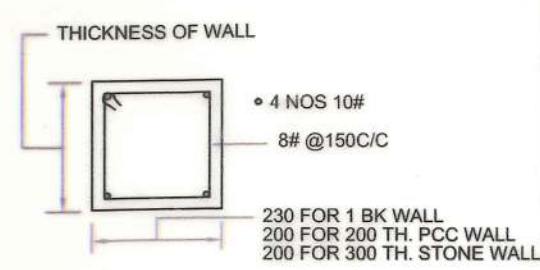
(NOTE:-THIS IS IN ADDITION TO THE NORMAL CHAIRS TO BE PROVIDED AS PER DETAILS GIVEN IN THIS DRG.)



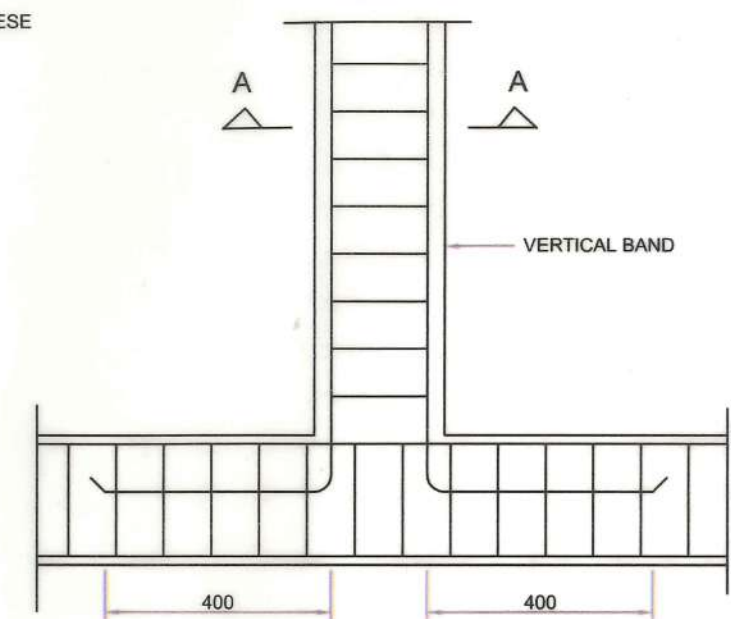
(NOTE:-EFFORTS SHALL BE MADE TO PLACE THESE CHAIRS NEAR THE MAIN REINF. OF SLABS)



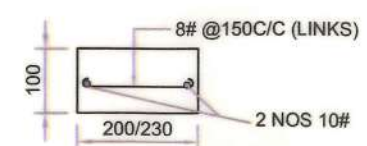
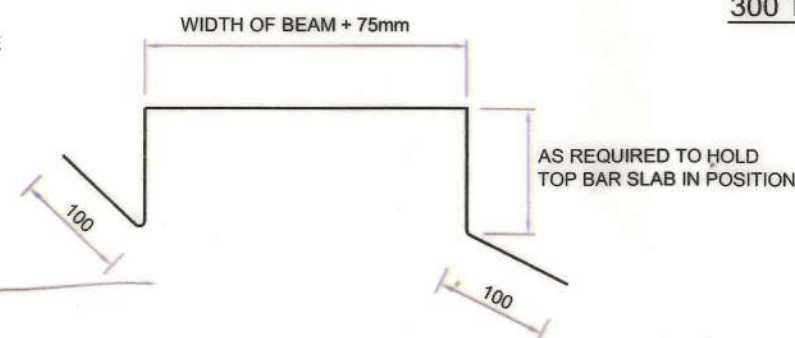
DETAIL OF VERTICAL BAND FOR 1/2 BK/100 TH. PCC PANEL WALL



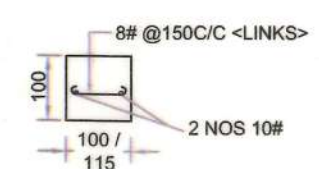
PLAN AT A-A



DETAIL OF VERTICAL BAND FOR 1 BK/200 TH. PCC PANEL WALL / 300 TH. STONE WALL



1 BK/200 TH. PCC BLOCK PANEL WALL



1/2 BK/100 TH. PCC BLOCK PANEL WALL

DETAIL OF LINTEL BAND

NOTES

1. CONTRACTOR TO CHECK & VERIFY ALL DIMENSIONS BEFORE TAKING EXECUTION OF THE WORK.
2. DIMENSIONS GIVEN ARE IN MILLIMETRES UNLESS OTHERWISE STATED
3. FIGURED DIMENSIONS SHALL BE FOLLOWED.
4. THIS DRG SHALL BE READ IN CONTINUATION OF SHT.NO.1/6 TO2/6 OF THIS DRG.
5. CORNER DETAILS FOR BANDS, JUNCTION DETAIL FOR BANDS & CONNECTION BETWEEN RCC LINTEL & LINTED BAND SHALL BE AS PER DETAIL GIVEN IN DRG.NO CEJZ/2004/TD/S-9 SHT.NO.1/3 TO 3/3.
6. ANGLE IRON NOSING 25X25X3MM SHALL BE PROVIDED WITH DWARF WALL AT LOCATION AS PER THE DETAILS GIVEN IN THIS DRG.
7. THIS DRG. HAS BEEN PREPARED BASED ON DRG. NO. CEJZ/2002/ TD/S-13.

1	11-05-04	CORRECTED UPTO DATE	MP
S.NO	DATE	DESCRIPTION	INITIAL

REVISION

RCC DETAILS AND NOTES

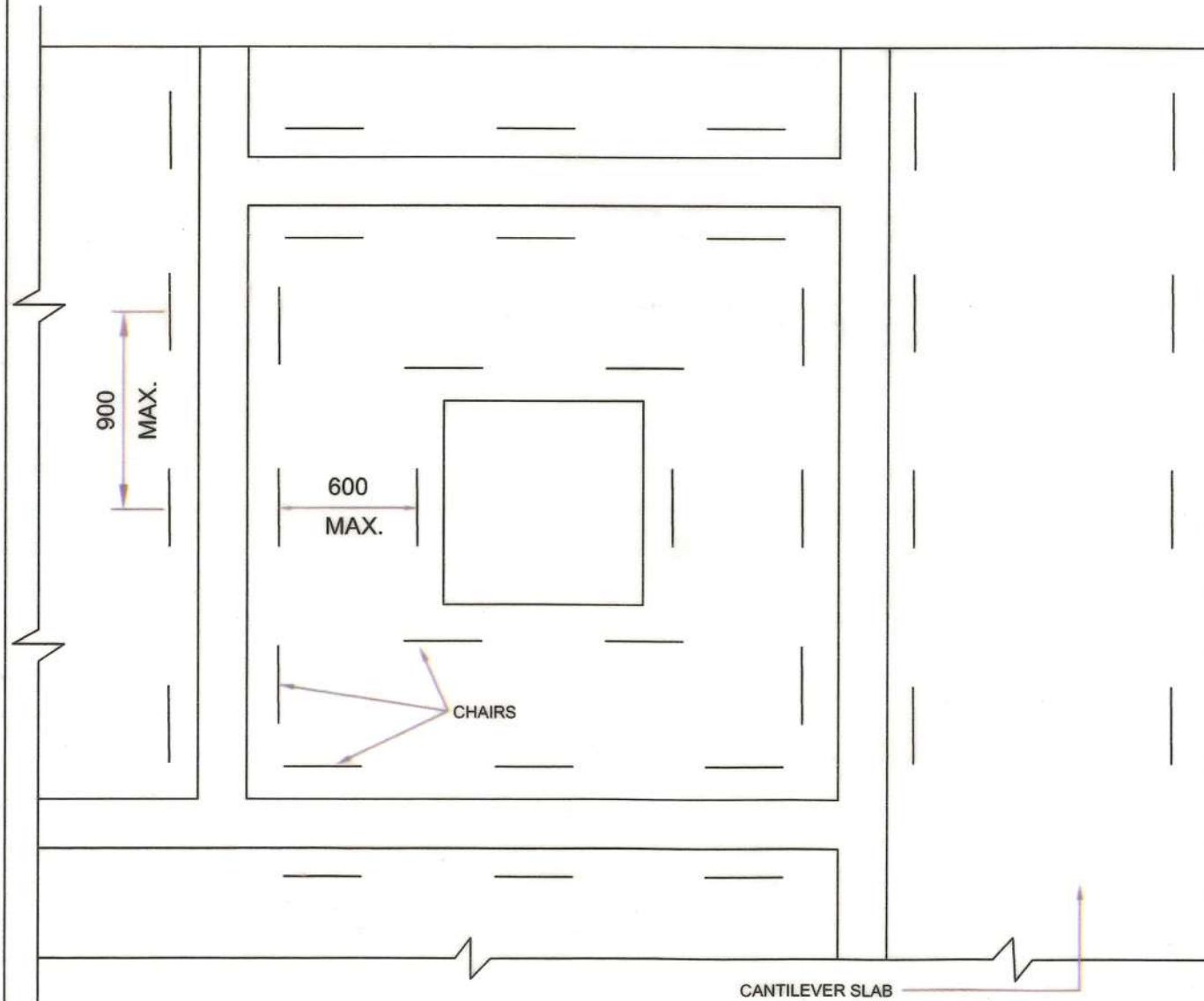
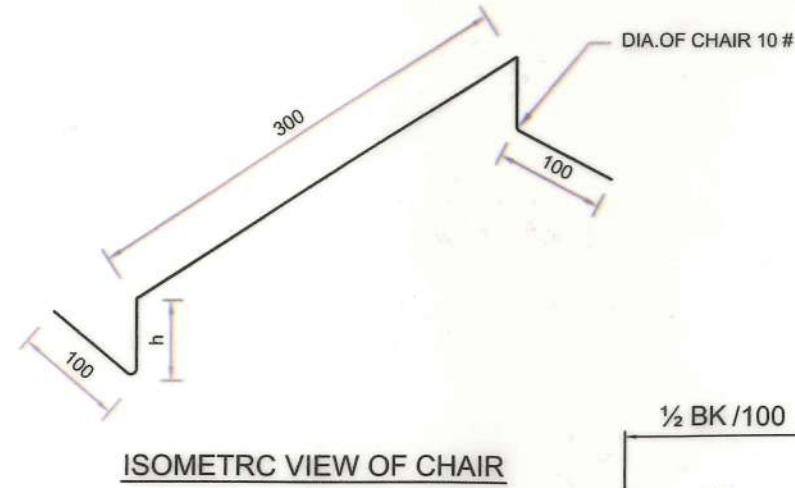
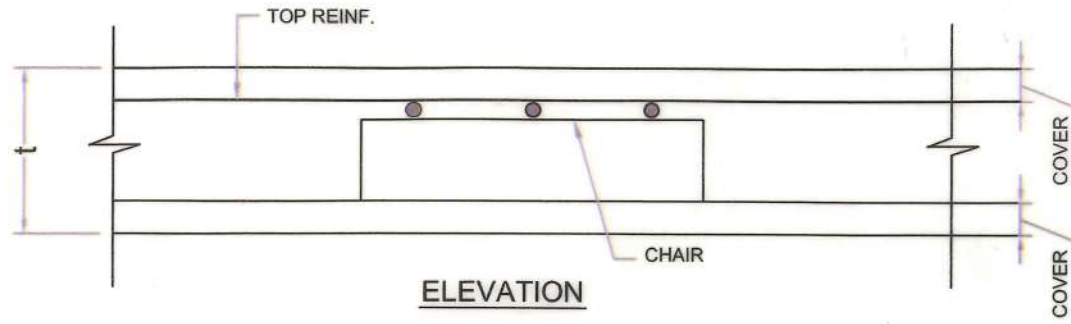
DATE	08-04-04	CHIEF ENGINEER JAIPUR ZONE JAIPUR	SHEET No. 3/6
DRN.			
TCD.			
CKD.			
SCALE		DRG. NO.CEJZ/2004 TD/S-8	

Addl. Asstt. Dir(Arch)

Director (Design)
 For Chief Engineer

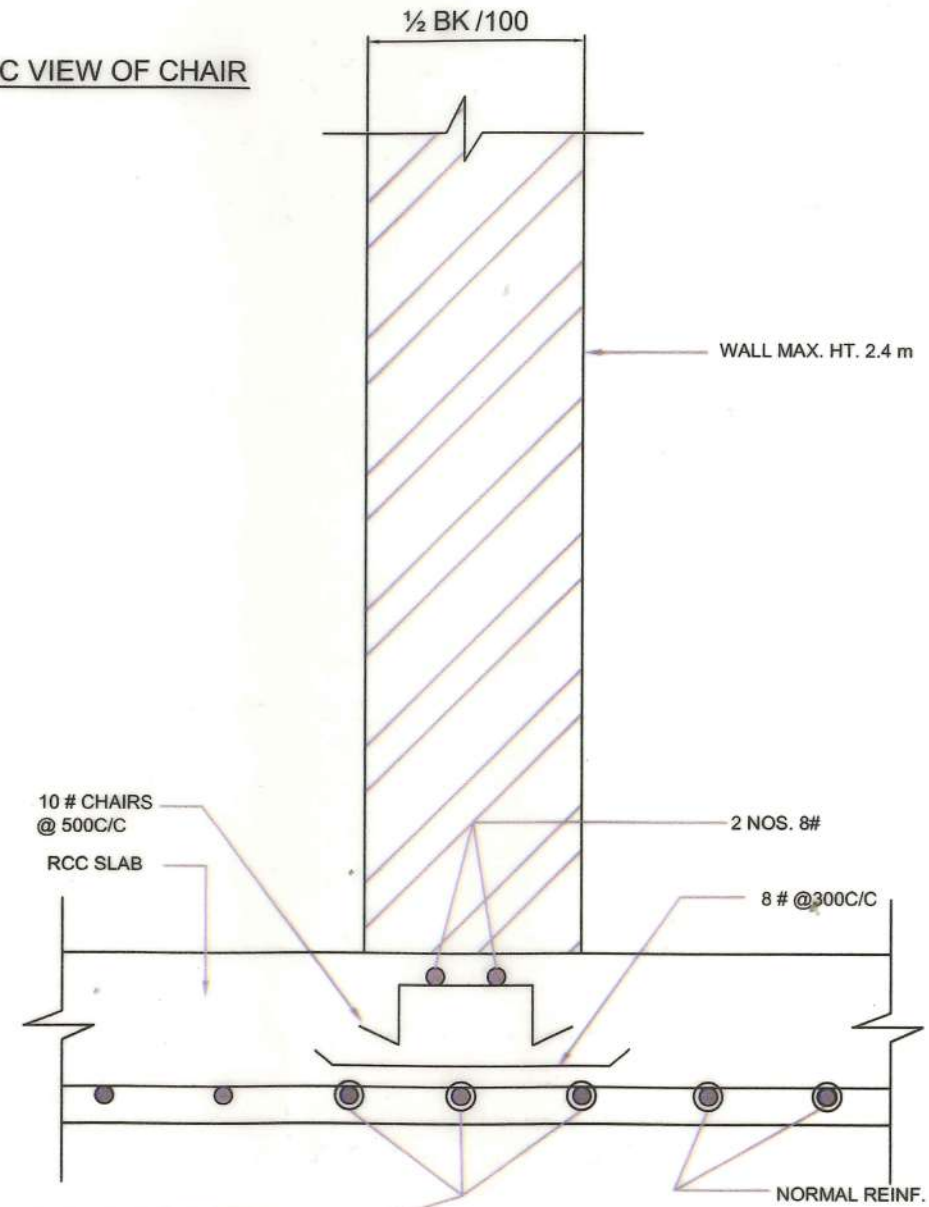
B-10

NOTES



DETAILS OF CHAIRS IN RCC SLABS

CANTILEVER SLAB



DETAIL OF REINF FOR HALF BRICK WALL DIRECTLY RESTING ON SLAB

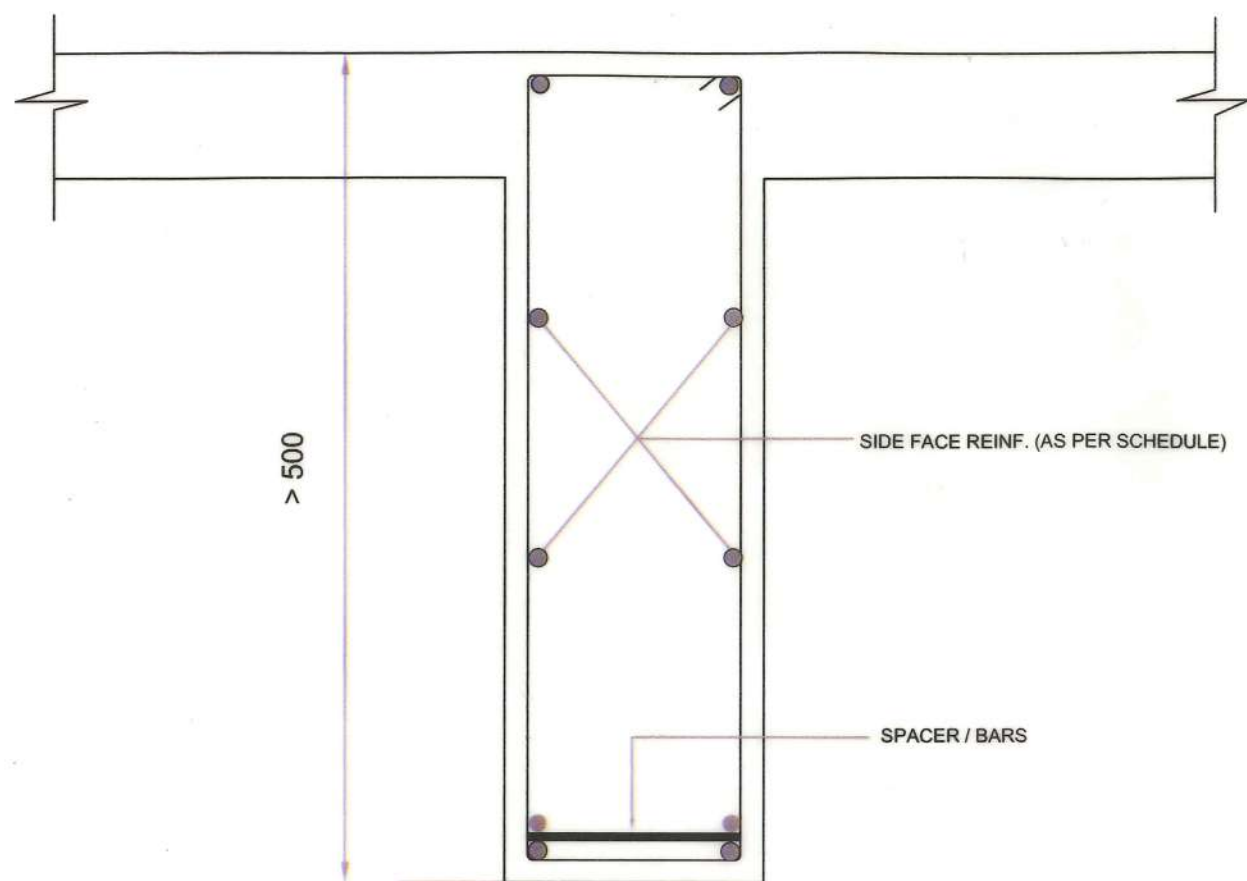
RCC DETAILS AND NOTES

DATE	08-04-04	CHIEF ENGINEER JAIPUR ZONE JAIPUR	SHEET No.
DRN.			4/6
TCD.			
CKD.			
SCALE		DRG. NO.CEJZ/2004 TD\1S-8	

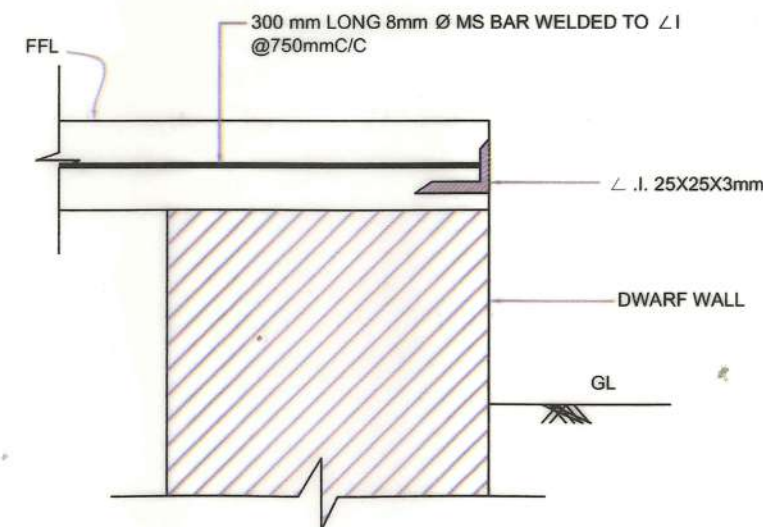
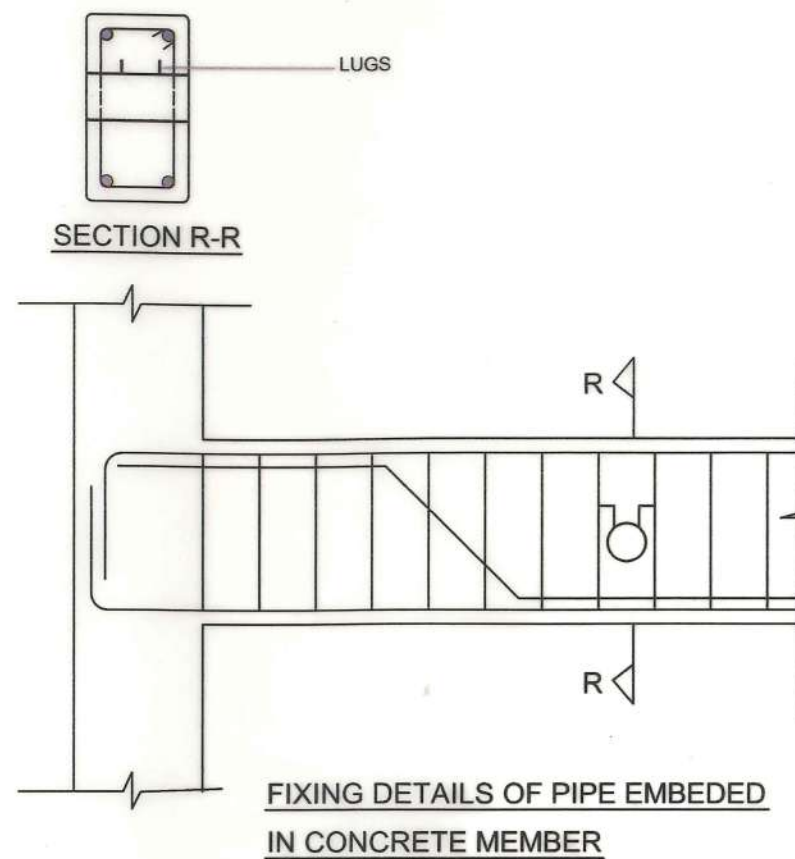
Addl. Asstt. Dir(Arch)

Director (Design)
 For Chief Engineer

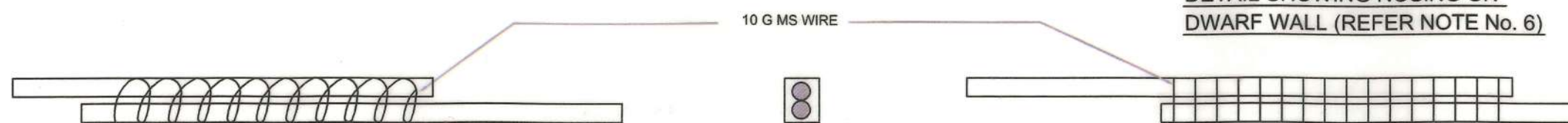
B-11



SIDE FACE REINF. IN BEAMS



DETAIL SHOWING NOSING ON DWARF WALL (REFER NOTE No. 6)



SPLICING IN TENSILE REINFORCEMENT

NOTES

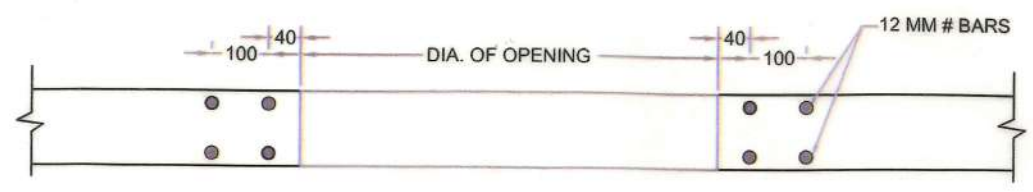
RCC DETAILS AND NOTES

DATE	08-04-04	CHIEF ENGINEER JAIPUR ZONE JAIPUR	SHEET No.
DRN.			5/6
TCD.			
CKD.			
SCALE		DRG. NO.CEJZ/2004 TD\1S-8	

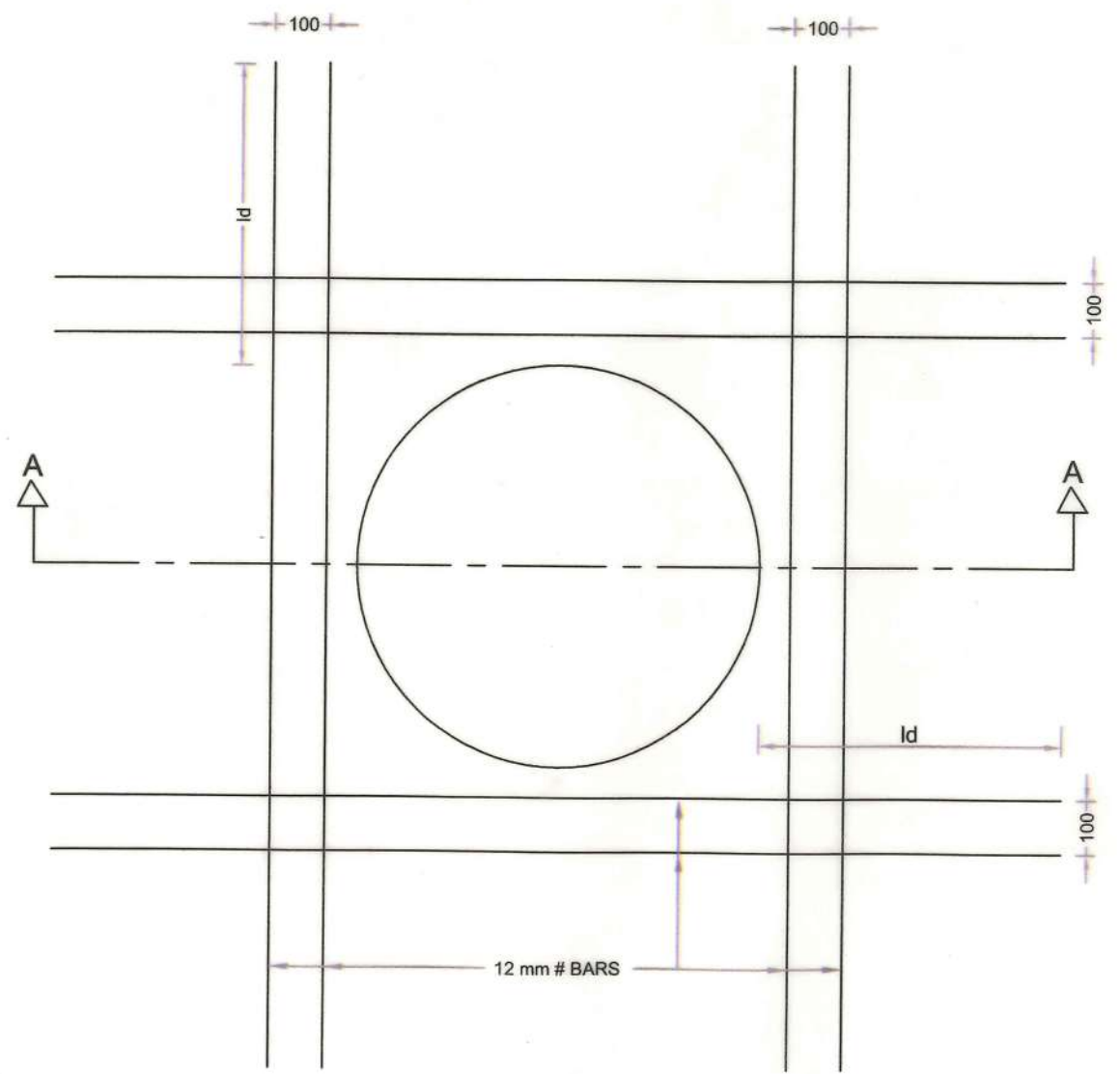
[Signature]
Addl. Asstt. Dir(Arch)

[Signature]
Director (Design)
For Chief Engineer

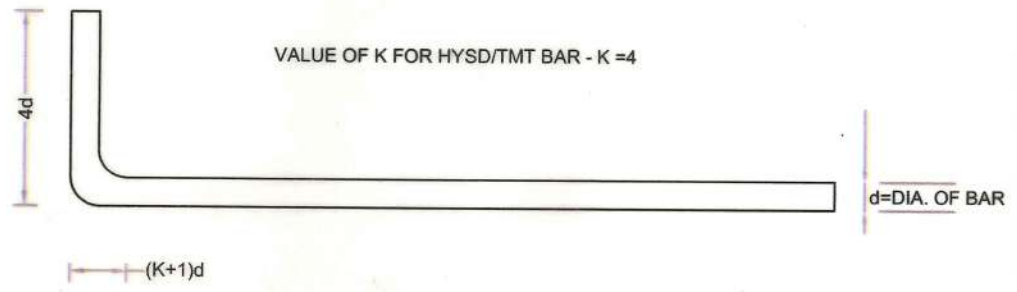
B-12



SECTION AT 'A-A'



DETAILS OF REINF. AROUND
OPENING IN RCC SLAB



VALUE OF K FOR HYSD/TMT BAR - K=4
FOR DEFORMED BAR / TMT BAR
DETAIL OF STANDARD HOOK

NOTES

1	11-05-04	CORRECTED UPTO DATE	IMP
S.NO.	DATE	DESCRIPTION	INITIAL

REVISION

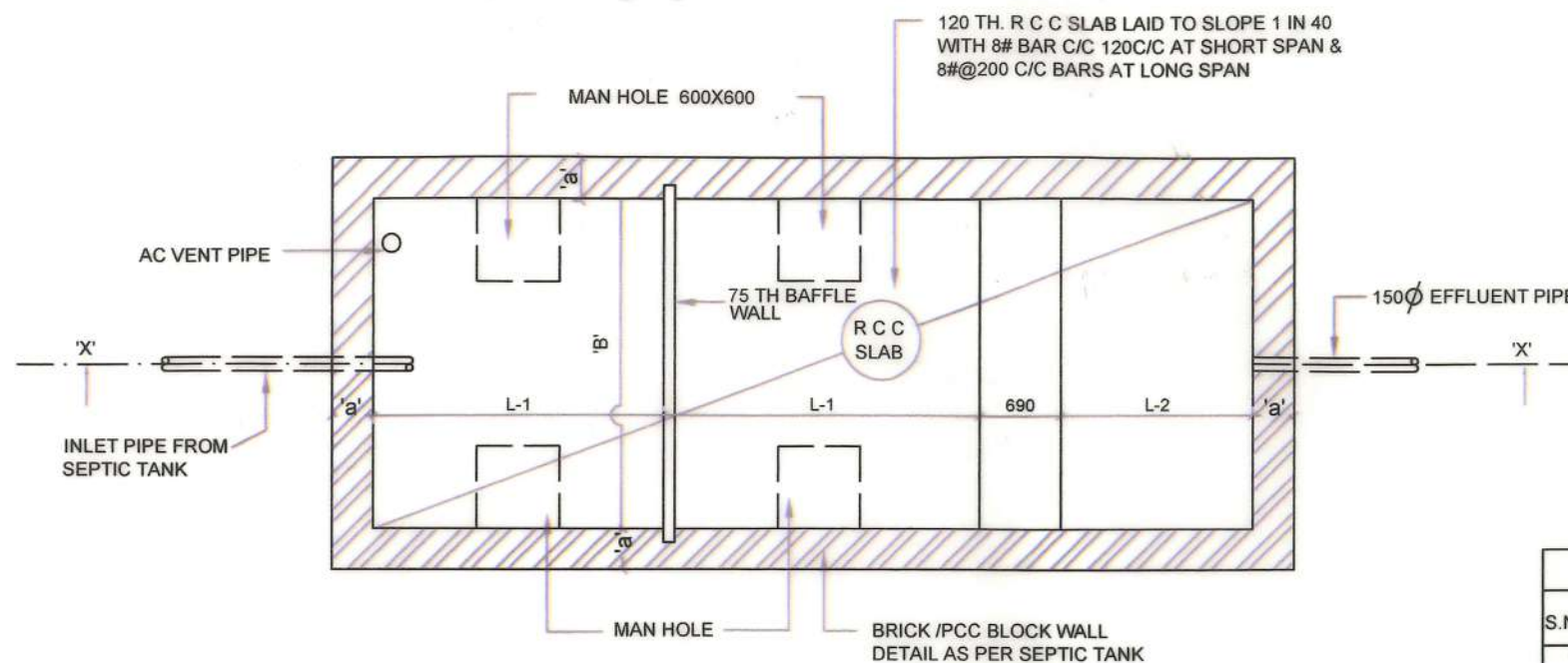
RCC DETAILS AND NOTES

DATE	08-04-04	CHIEF ENGINEER JAIPUR ZONE JAIPUR	SHEET No. 6/6
DRN.			
TCD.			
CKD.			
SCALE		DRG. NO.CEJZ\2004 TD\5-8	

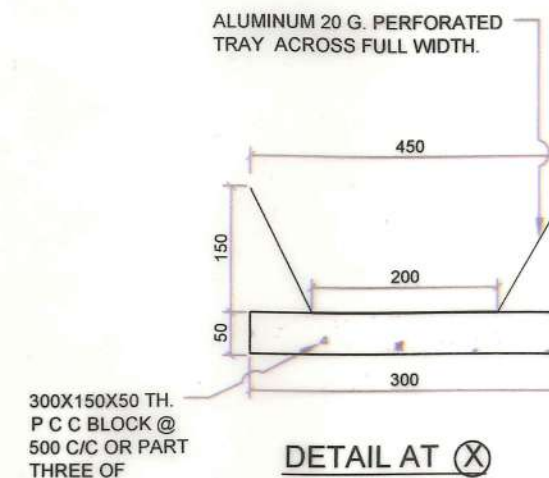
Addl. Asstt. Dir(Arch)

Director (Design)
 For Chief Engineer

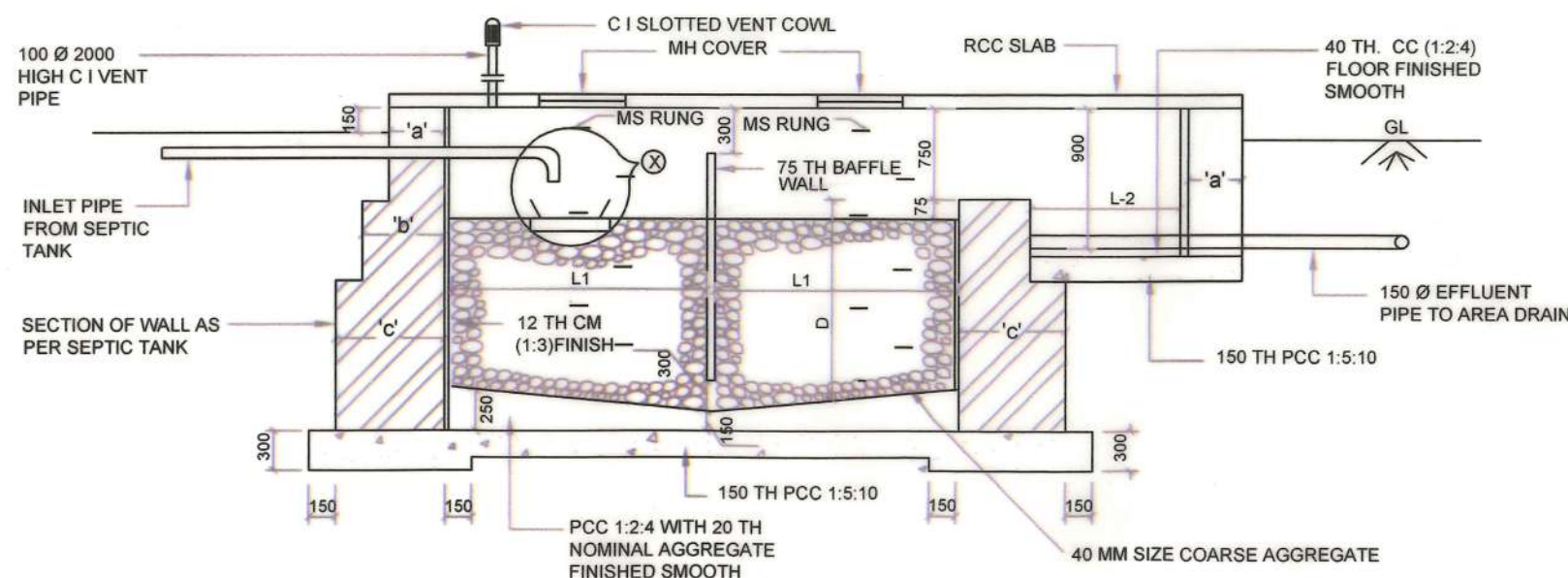
B-39



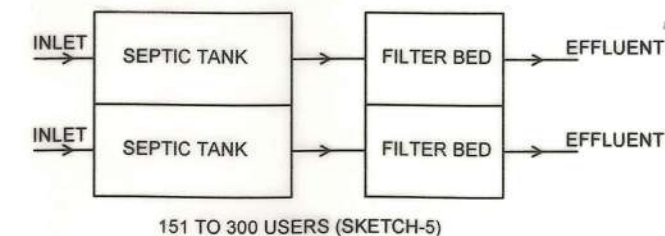
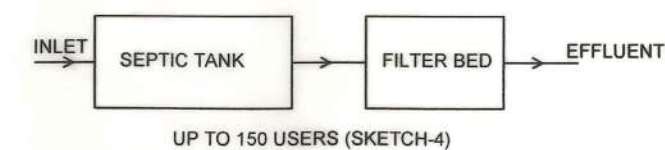
PLAN - FILTER BED



SIZE FILTER BED						
S.NO.	NO. OF USERS	LENGTH		WIDTH 'B'	DEPTH 'D'	REMARKS
		L-1	L-2			
1	UP TO 50	1500	500	EQUAL TO WIDTH OF RESPECTIVE SEPTIC TANK	925	SKETCH-4
2	51 TO 100	2100	500		925	SKETCH-4
3	101 TO 150	2800	700		925	SKETCH-4
4	151 TO 200	2100	750		925	SKETCH-5
5	201 TO 300	2800	750		925	SKETCH-5



SECTION AT X-X



LINE PLANS

NOTES

- 1 CONTRACTOR TO CHECK & VERIFY ALL DIMENSIONS BEFORE EXECUTION OF WORK.
- 2 FIGURED DIMENSIONS SHALL BE FOLLOWED.
- 3 ALL DIMENSIONS ARE GIVEN IN MILLIMETRES UNLESS OTHERWISE STATED.
- 4 INTERNAL SURFACE OF DISTRIBUTION CHAMBER SHALL BE PLASTERED WITH CM(1:3) MIXED WITH WATER PROOFING COMPOUND SIMILARLY FLOOR SHALL BE PROVIDED WITH 40 TH C.C(1:2:4) FLOORING FINISHED SMOOTH.
- 5 LOCATION OF FILTER BED/DISPERSION CHAMBER/SEEPAGE PIT WITH RESPECT TO SEPTIC TANK SHALL BE AS DIRECTED BY GE, AS PER SITE CONDITION.
- 6 FILTER MEDIA FOR FILTER BED SHALL CONFIRM TO IS-8419(PART-1)1977.
- 7 THIS DRG.HAS BEEN PREPARED BASED ON DRG.NO. CEJZ/2002/TD/S-3.

DETAILS FOR DISPOSAL OF SEPTIC TANK EFFLUENT THROUGH FILTER BED/DISPERSION TRENCH/SEEPAGE PIT

DATE	11-05-04	CHIEF ENGINEER JAIPUR ZONE JAIPUR	SHEET No.
DRN.	—		1/4
TCD.	—		
CKD.	—		
SCALE	—		
		DRG NO. CEJZ/2004/TD/S-17	

ADDL. ASSTT.DIR(ARCH)

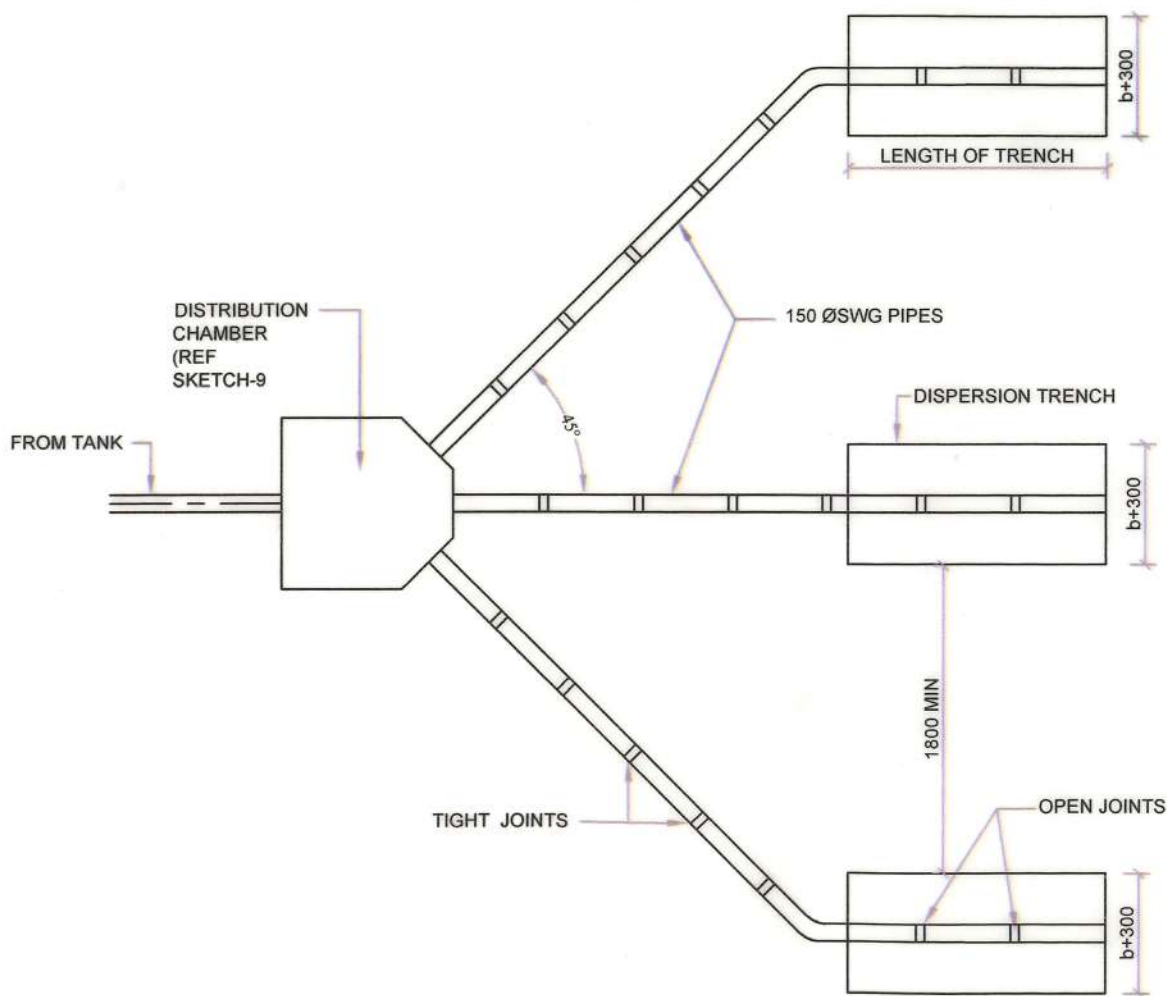
JT. DIRECTOR(DESIGN)

DIRECTOR(DESIGN)
FOR CHIEF ENGINEER

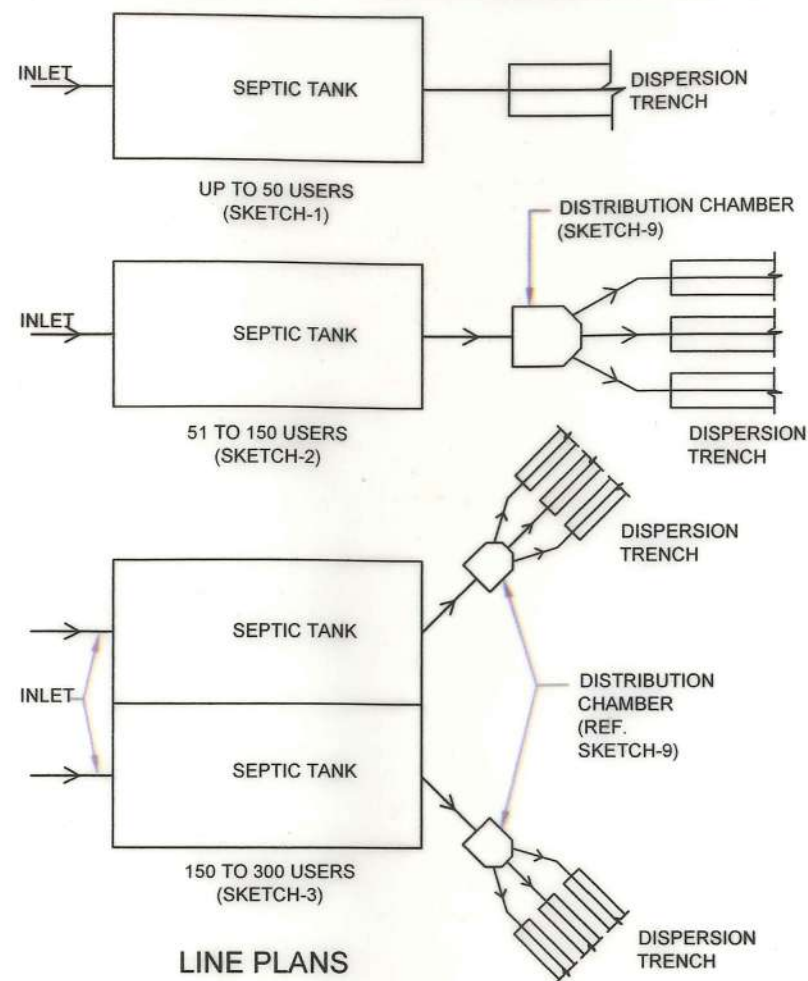
TYPICAL DETAILS FOR DISPOSAL OF SEPTIC TANK EFFLUENT THROUGH FILTER BED METHOD

B-40

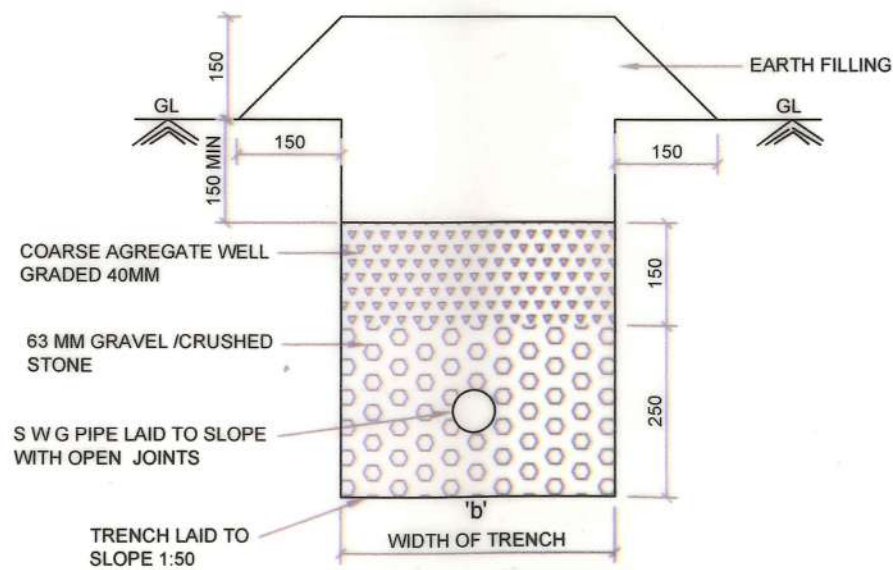
DETAILS OF DISPERSION TRENCH					
S.NO.	NO. OF USERS	LENGTH OF TRENCH	WIDTH OF TRENCH 'b'	NO. OF TRENCH	REMARKS
1	UP TO 20	15000	900	1	SKETCH-1
2	21 TO 50	30000	1000	1	SKETCH-1
3	51 TO 100	25000	1000	3	SKETCH-2
4	101 TO 150	30000	1000	3	SKETCH-2
5	151 TO 200	20000	1000	2 X 3	SKETCH-3
6	201 TO 300	25000	1000	2 X 3	SKETCH-3



TYPICAL SOIL ABSORPTION SYSTEM



LINE PLANS



DETAILS OF DISPERSION TRENCH

NOTES

1 FOR ALL NOTES REFER SHEET NO. 1/4 OF THIS DRG.

DETAILS FOR DISPOSAL OF SEPTIC TANK EFFLUENT THROUGH FILTER BED/DISPERSION TRENCH/SEEPAGE PIT

DATE	11-05-04	CHIEF ENGINEER JAIPUR ZONE JAIPUR	SHEET No.
DRN.	-		2/4
TCD.	-		
CKD.	-		
SCALE	-	DRG NO.CEJZ/2004/TD/S-17	

ADDL. ASSTT.DIR(ARCH)

JT. DIRECTOR(DESIGN)

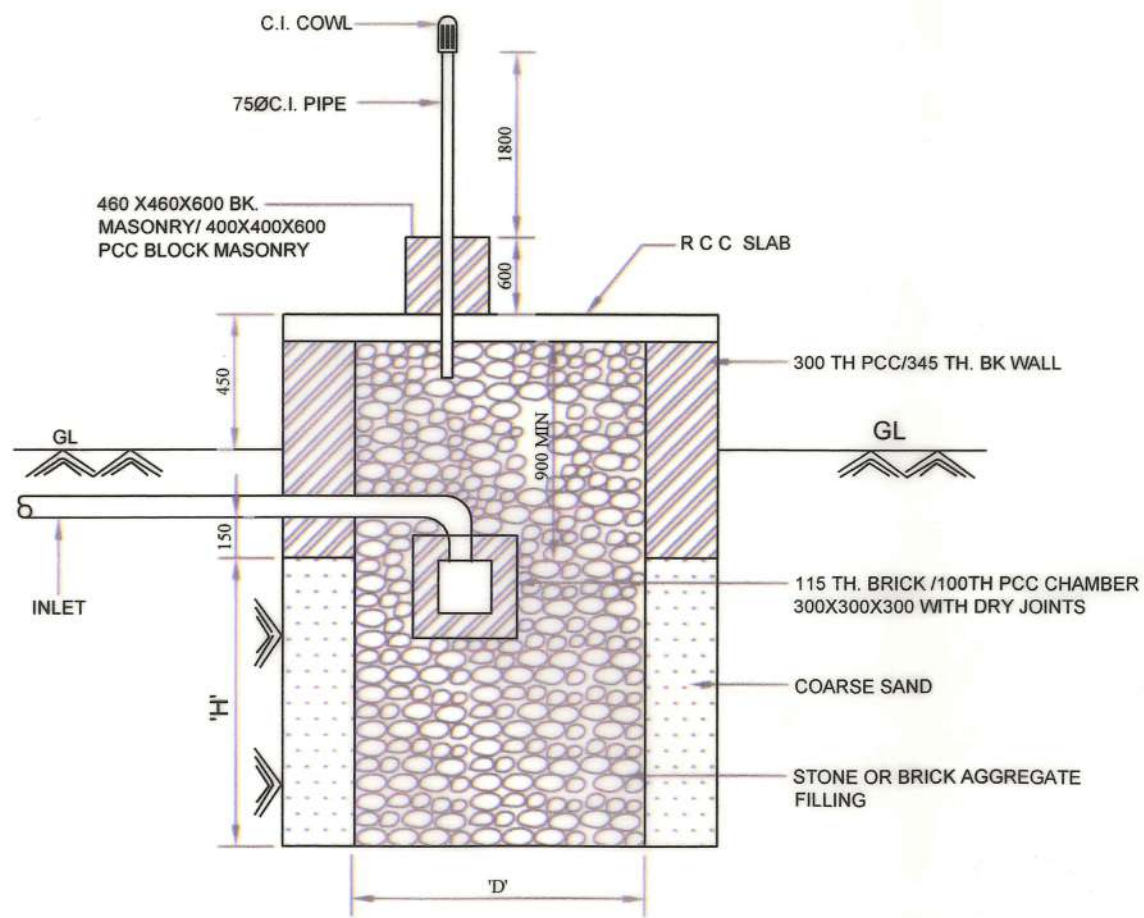
DIRECTOR(DESIGN)
FOR CHIEF ENGINEER

TYPICAL DETAILS FOR DISPOSAL OF SEPTIC TANK EFFLUENT THROUGH DISPERSION TRENCH METHOD

B-41

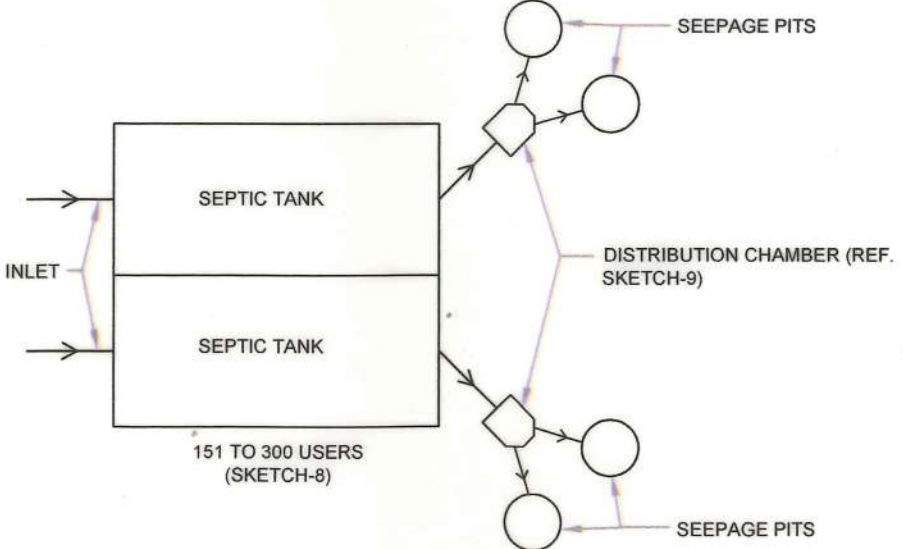
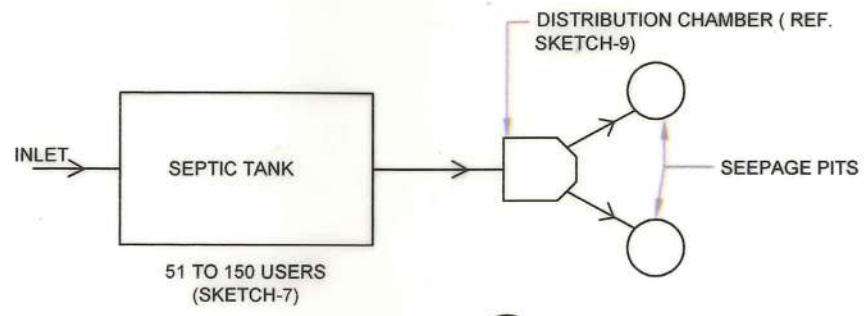
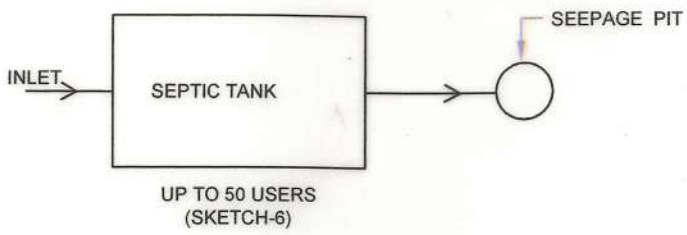
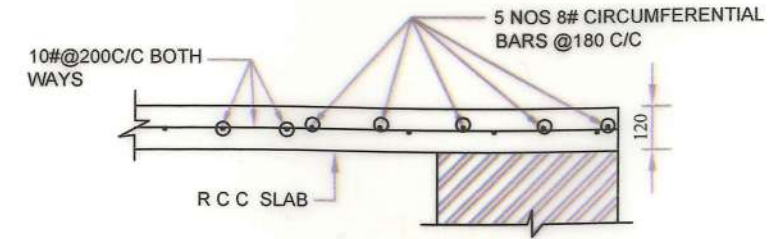
TABLE SHOWING SIZE OF SEEPAGE PIT

S.NO.	NO. OF USERS	DIAMETER OF PIT 'D'	EFFECTIVE HEIGHT 'H'	NO. OF PIT	REMARKS
1	UP TO 20	2500	2400	1	SKETCH-6
2	21 TO 50	5000	4000	1	SKETCH-6
3	51 TO 100	4000	3000	2	SKETCH-7
4	101 TO 150	4000	4000	2	SKETCH-7
5	151 TO 200	4000	3000	2 X 2	SKETCH-8
6	201 TO 300	4000	4000	2 X 2	SKETCH-8



TYPICAL CROSS SECTION OF SEEPAGE PIT

TYPICAL DETAILS FOR DISPOSAL OF SEPTIC TANK EFFLUMENT THROUGH SEEPAGE PIT METHOD



NOTES

1 FOR ALL NOTES REFER SHEET NO. 1/4 OF THIS DRG.

DETAILS FOR DISPOSAL OF SEPTIC TANK EFFLUMENT THROUGH FILTER BED/DISPERSION TRENCH/SEEPAGE PIT

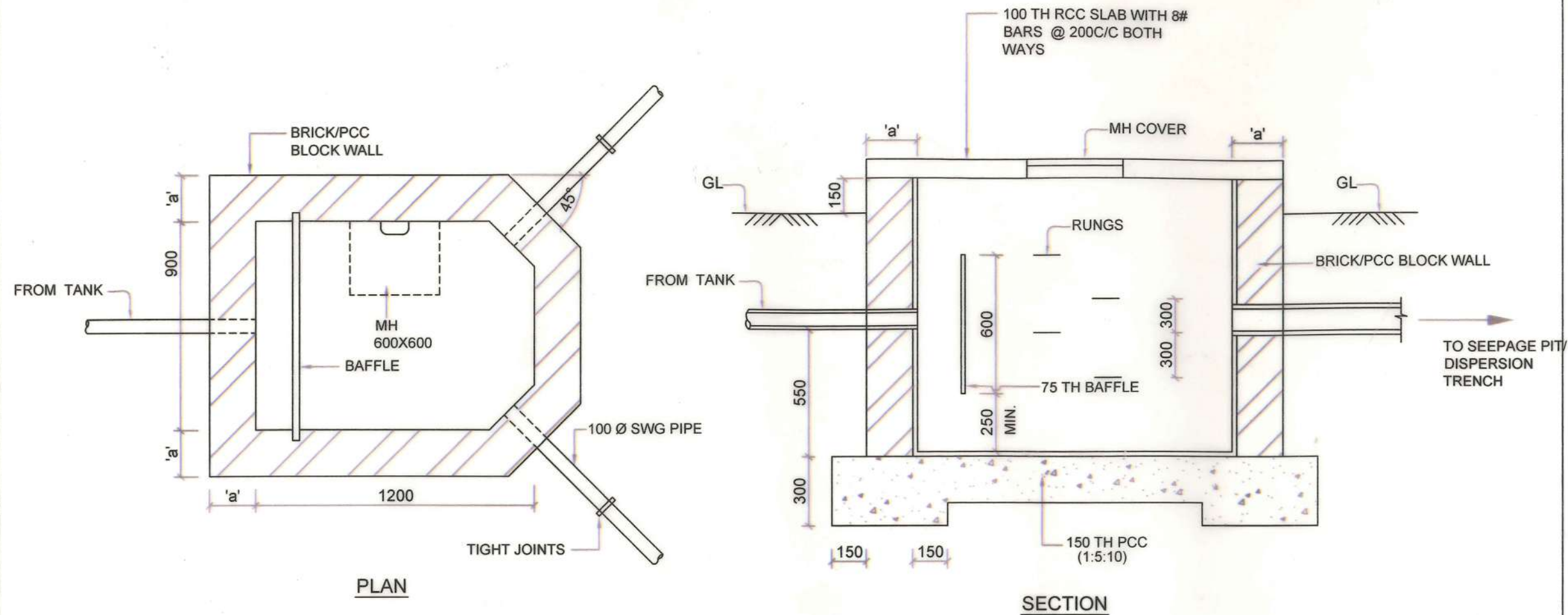
DATE	11-05-04	CHIEF ENGINEER JAIPUR ZONE JAIPUR	SHEET No.
DRN.	—		3/4
TCD.	—		
CKD.	—		
SCALE	—	DRG NO.CEJZ/2004/TD/S-17	

ADDL. ASSTT. DIR (ARCH)

JT. DIRECTOR (DESIGN)

DIRECTOR (DESIGN)
FOR CHIEF ENGINEER

B-42



TYPICAL DETAIL FOR DISTRIBUTION CHAMBER
(SKETCH-9)

TABLE SHOWING THICKNESS OF WALL

	PCC BLOCK WALL	BRICK WALL
WALLS SHOWN AS 'a'	200	230
WALLS SHOWN AS 'b'	400	460
WALLS SHOWN AS 'c'	600	690

NOTES

- FOR ALL NOTES REFER SHEET NO. 1/4 OF THIS DRG.

DETAILS FOR DISPOSAL OF
SEPTIC TANK EFFLUENT
THROUGH FILTER
BED/DISPERSION
TRENCH/SEEPAGE PIT

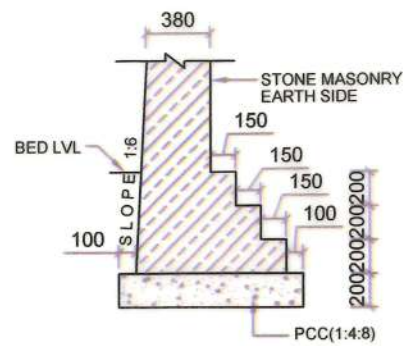
DATE	11-05-04	CHIEF ENGINEER JAIPUR ZONE JAIPUR	SHEET No.
DRN.	-		4/4
TCD.	-		
CKD.	-		
SCALE	-	DRG NO.CEJZ/2004/TD/S-17	

[Signature]
ADDL. ASSTT.DIR(ARCH)

[Signature]
JT. DIRECTOR(DESIGN)

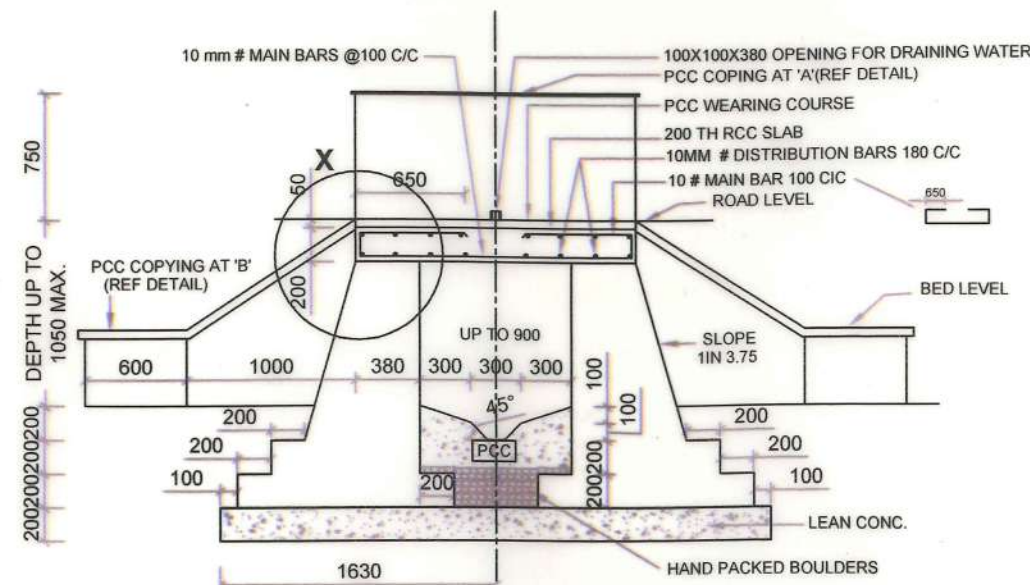
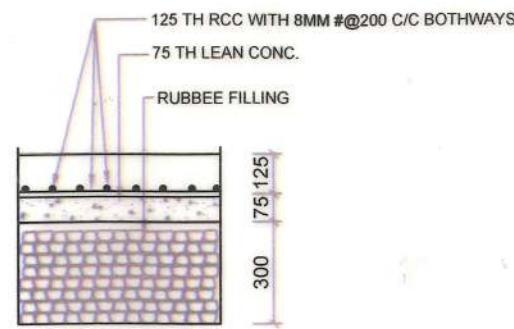
[Signature]
DIRECTOR(DESIGN)
FOR CHIEF ENGINEER

B-56

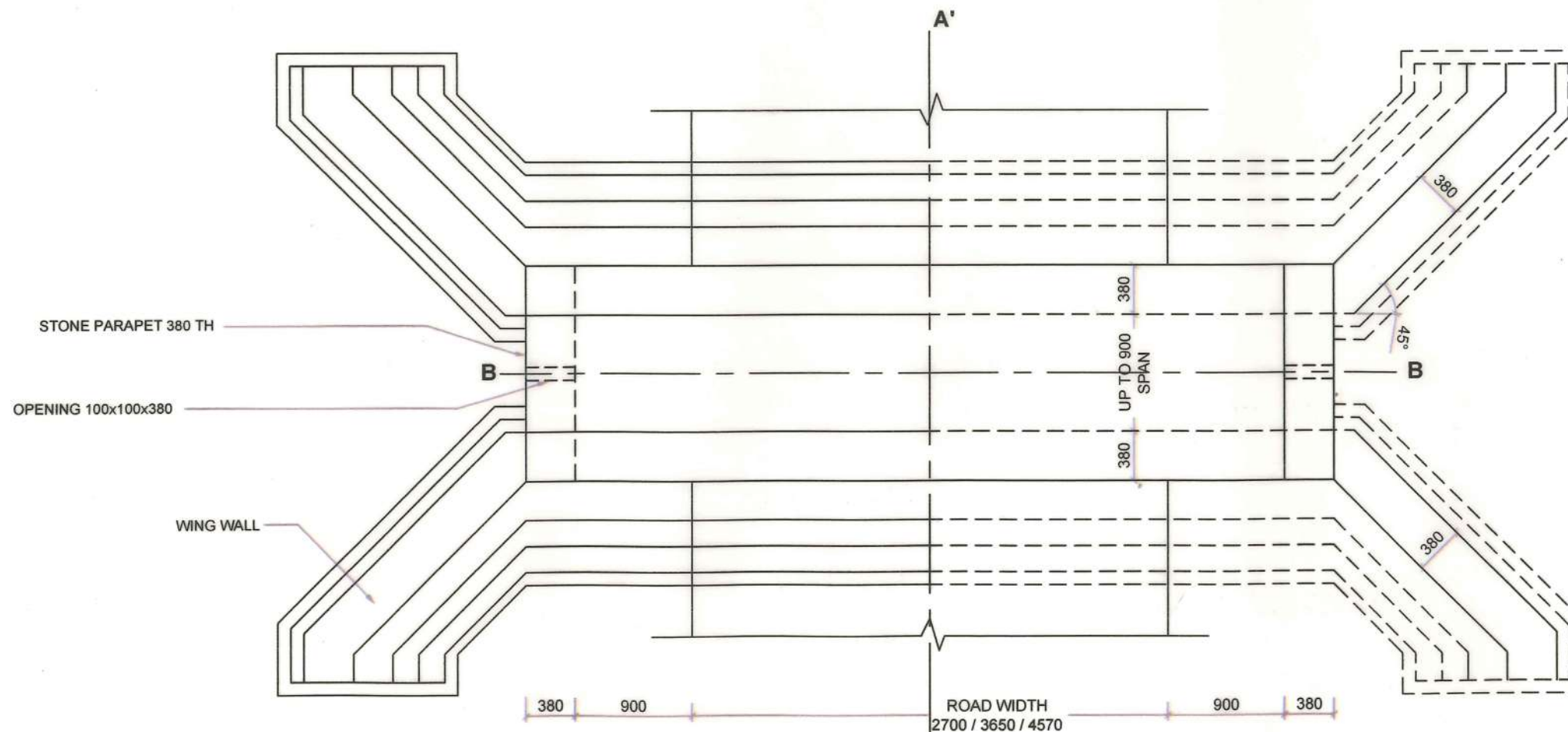


DETAIL OF FOUNDATION FOR WING WALL

FOUNDATION DETAILS BELOW MASONRY IN CASE OF EXPANSIVE SOIL



SECTION AT AA'



PLAN A

NOTES

- 1 CONTRACTOR TO CHECK & VERIFY ALL DIMENSIONS BEFORE EXECUTION OF THE WORK.
- 2 FIGURED DIMENTIONS SHALL BE FOLLOWED.
- 3 ALL DINENTIONS ARE GIVEN IN MILIMETRES UNLESS OTHERWISE STATED.
- 4 ALL REINFORCEMENT MARKED THUS # ARE HIGH YIELD STRENGTH DEFORMED BARS CONFIRMING TO I.S. 1786 OF 1985 (Fe=415).
- 5 STONE MASONRY FOR ABUTMENT/WINGS /WALLS SHALL BE SQUARED RUBBLE IN CEMENT MORTAR 1:4.
- 6 THE CULVERT HAS BEEN DESIGN FOR IRC CLASS B LOADING.
- 7 THE FOUNDATION HAS BEEN DESIGNED FOR THE SBC OF 10 T/M² & SHALL BE REDESIGNED FOR A DIFFERENT BEARING CAPACITY.
- 8 GRADE OF CONCRETE FOR RCC WORK SHALL BE M: 25 DESIGN MIX CONFORMING TO I.S. 456 OF 2000.
- 9 FOR OTHER DETAILS REFFER SHEET No. 2/2 OF THIS DRAWING.
- 10 THIS DRG.HAS BEEN PREPARED BASED ON DRG.NO.TD-535.

DETAILS OF RCC SLAB TYPE CULVERT UPTO 900 SPAN FOR 2700/3650/4570 WIDE ROAD (IRC CLASS -B)

DATE	11-05-04	CHIEF ENGINEER JAIPUR ZONE JAIPUR	SHEET No.
DRN.	-		1/2
TCD.	-		
CKD.	-		
SCALE	-	DRG NO. CEJZ/2004/TD/S-24	

ADDL.ASSTT. DIR.(ARCH)

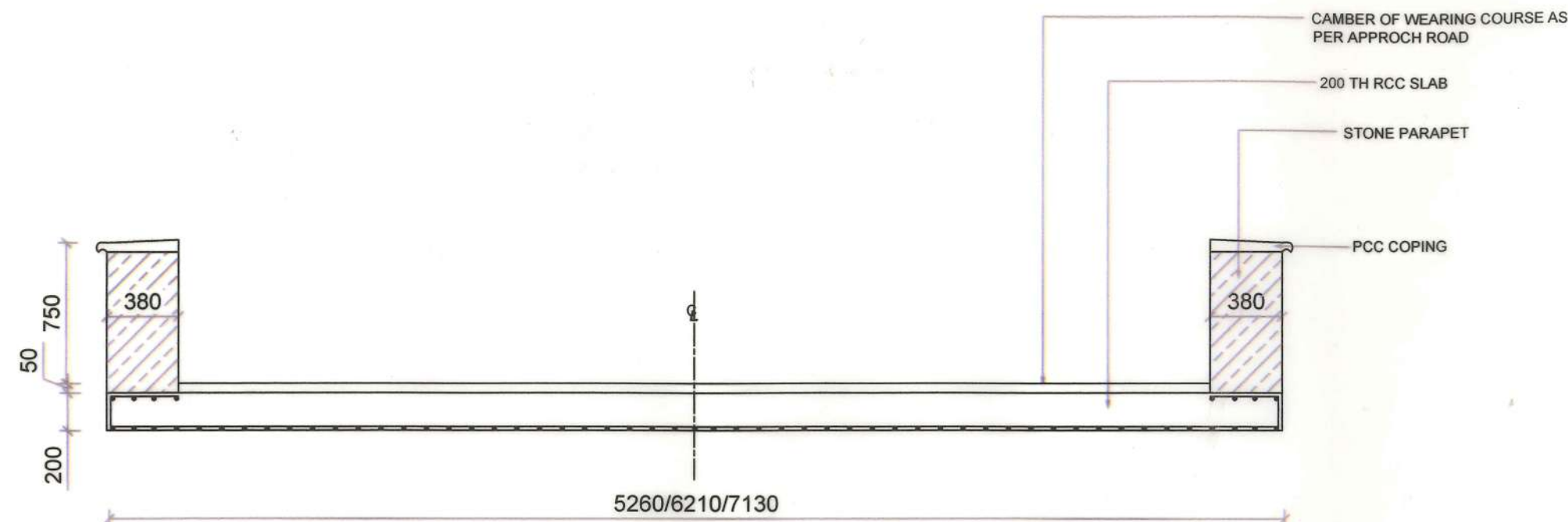
JT. DIRECTOR (DESIGN)

DIRECTOR (DESIGN)
FOR CHIEF ENGINEER

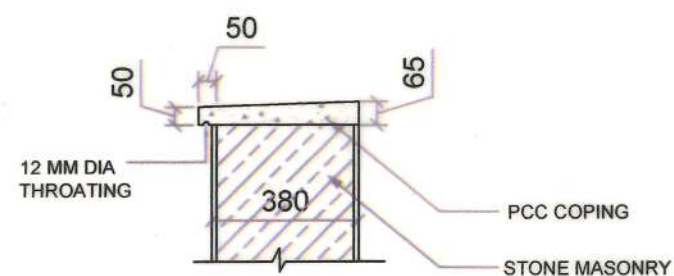
B-57

NOTES

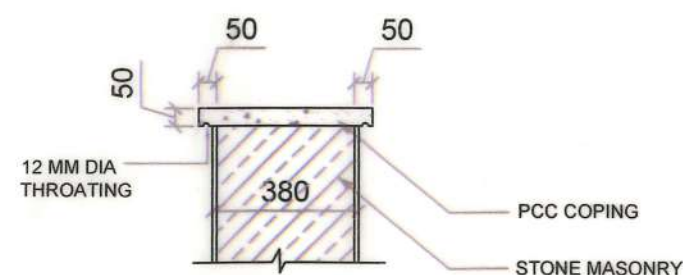
- FOR ALL NOTES & DETAILS REFER SHEET NO. 1/2 OF THIS DRAWING



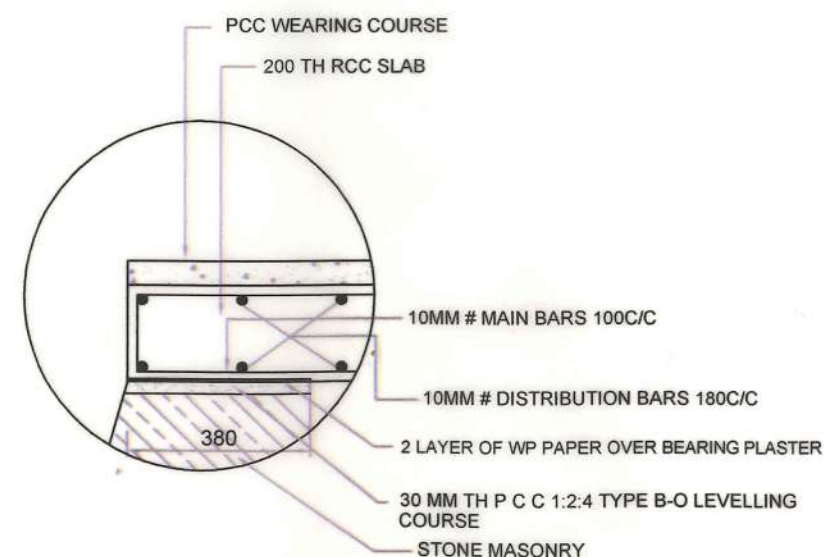
SECTION AT BB'



DETAIL OF PCC COPING
AT-A'



DETAIL OF PCC COPING
AT-B'



BEARING DETAIL OF SLAB AT -X

DETAILS OF RCC SLAB TYPE CULVERT UPTO 900mm SPAN FOR 2700/3650 WIDE ROAD (IRC CLASS -B)

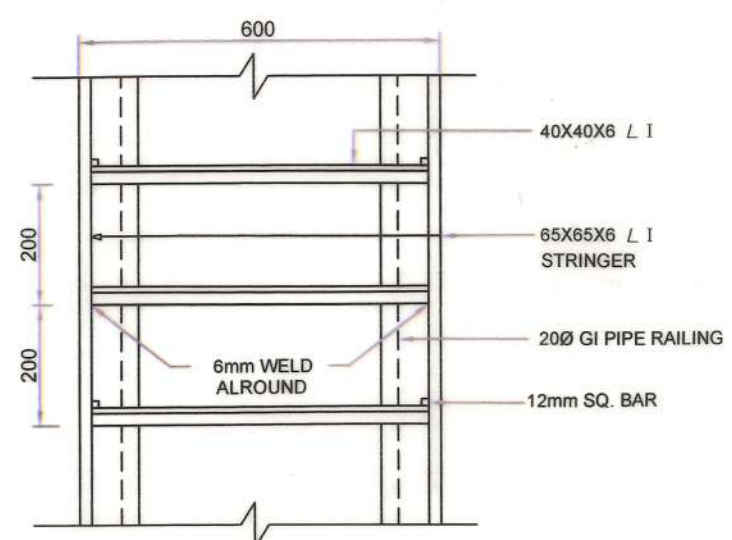
DATE	11-05-04	CHIEF ENGINEER JAIPUR ZONE JAIPUR	SHEET No.
DRN.	-		2/2
TCD.	-		
CKD.	-		
SCALE	-	DRG NO. CEJZ/2004/TD/S-24	

[Signature]
ADDL ASSTT. DIR.(ARCH)

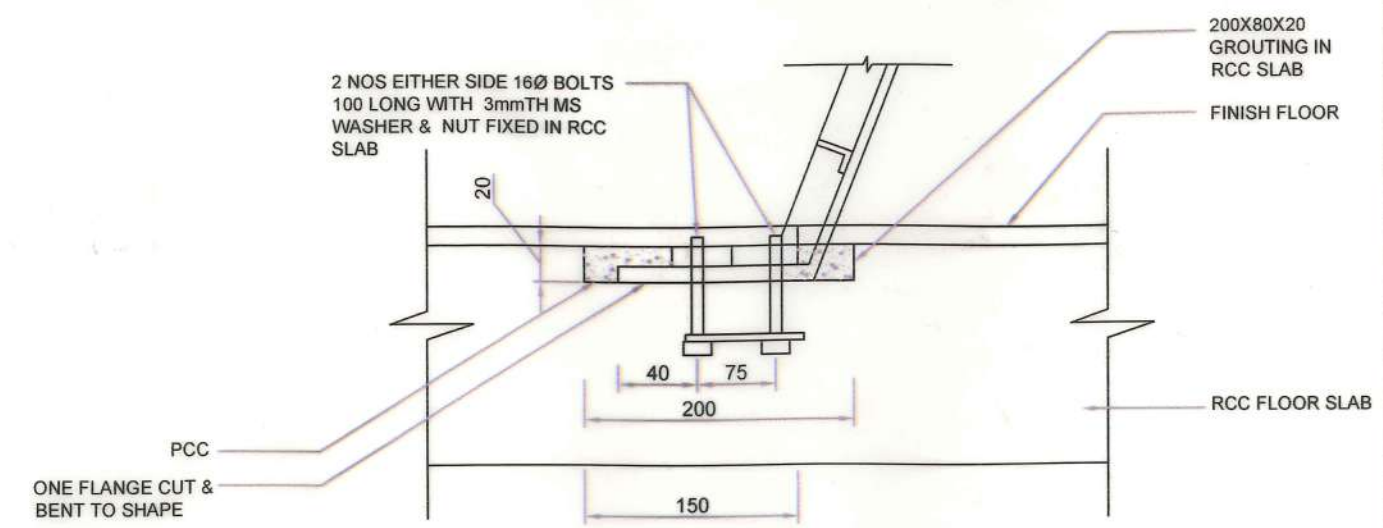
[Signature]
JT. DIRECTOR (DESIGN)

[Signature]
DIRECTOR (DESIGN)
FOR CHIEF ENGINEER

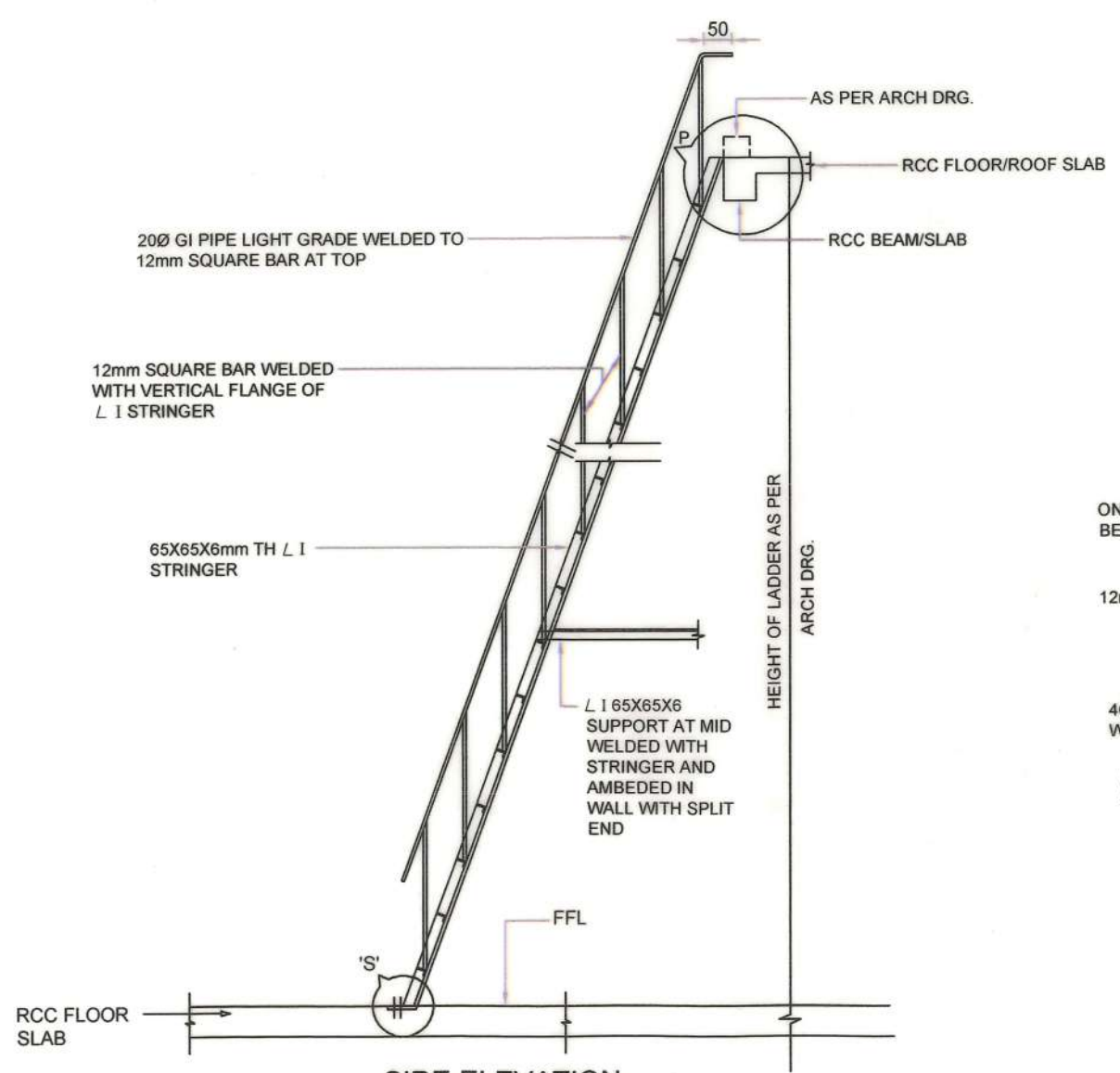
B-59



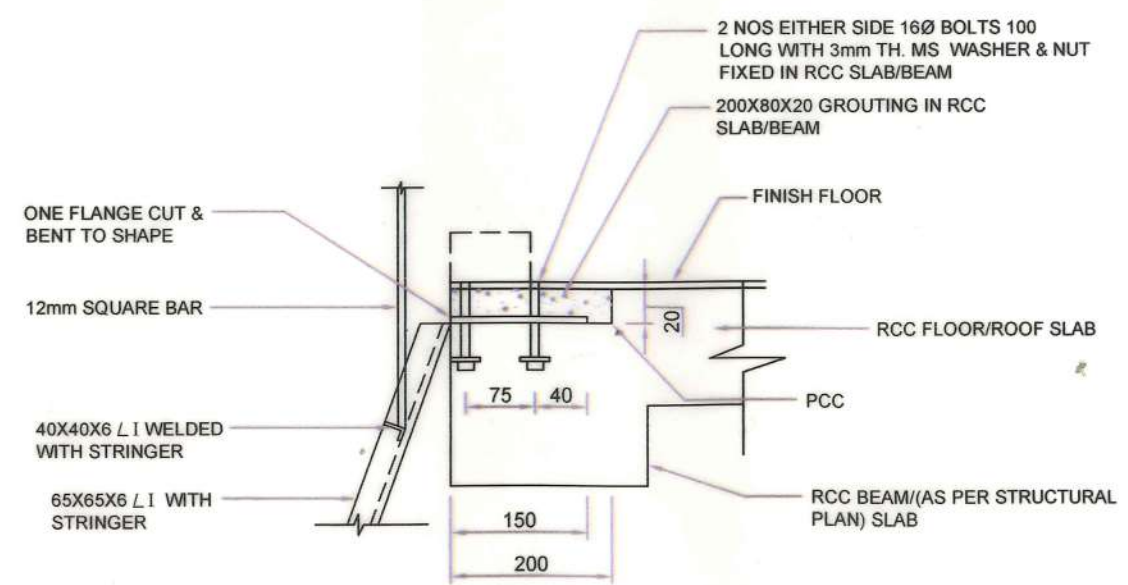
PART ELEVATION



DETAIL AT 'S'



SIDE ELEVATION



DETAIL AT 'P'

NOTES

- 1 CONTRACTOR TO CHECK & VERIFY ALL DIMENSIONS BEFORE TAKING EXECUTION IN HAND.
- 2 FIGURED DIMENTIONS SHALL BE FOLLOWED.
- 3 ALL DIMENSIONS ARE GIVEN IN mm.
- 4 THIS DRG. HAS BEEN PREPARED BASED ON DRG. NO. TD-615.

FIXING DETAIL OF STEEL LADDER

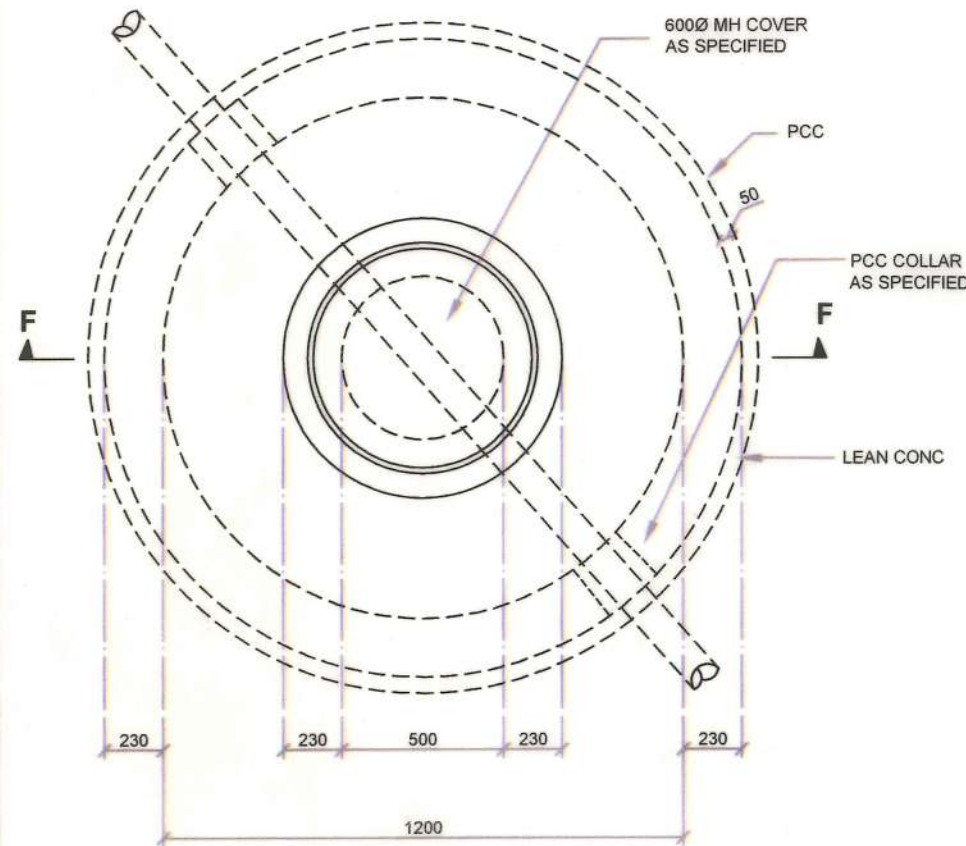
DATE	11-05-04	CHIEF ENGINEER JAIPUR ZONE JAIPUR	SHEET No.
DRN.	—		1/1
TCD.	—		
CKD.	—		
SCALE	—	DRG. No. CEJZ/2004/TD/S-26	

ADDL. ASSTT. DIR. (ARCH)

JT. DIRECTOR (DESIGN)

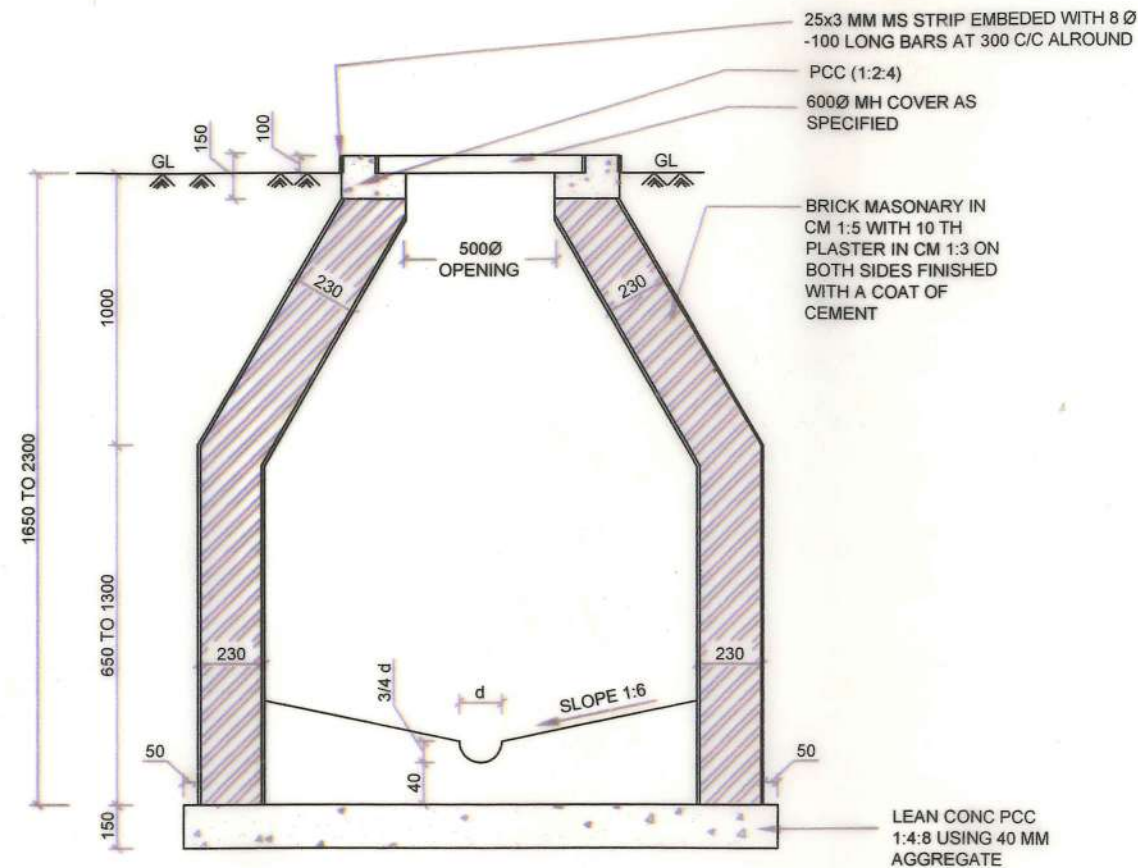
DIRECTOR (DESIGN) FOR CHIEF ENGINEER

B-62



PLAN (AT TOP)

CIRCULAR TYPE MAN HOLE IN BRICK MASONRY (FOR DEPTH 1650 TO 2300)



SECTION AT F-F

NOTES

- 1 CONTRACTOR TO CHECK & VERIFY ALL DIMENSIONS BEFORE TAKING EXECUTION IN HAND.
- 2 FIGURED DIMENTIONS SHALL BE FOLLOWED.
- 3 ALL DIMENSIONS ARE GIVEN IN mm OR OTHERWISE STATED.
- 4 THIS DRG IS PREPARED FOR SEWAGE SYSTEM FOR MD ACCN AREA & OTM ACCN AREA INSIDE CANTONMENT FOR AVERAGE SEWAGE FLOW FOR SEWAGE LINES HAVING DIA. LESS THAN 300mm.
- 5 THE BRICK WORK IN MANHOLES SHALL BE WITH FIRST CLASS BRICKS IN CEMENT MORTAR 1:5 (1 CEMENT : 5 COARSE SAND, IN ENGLISH BOND).
- 6 WALLS OF MAINHOLES SHALL BE PLASTERED BOTH INSIDE AND OUTSIDE WITH CEMENT MORTAR 1:3 (1 CEMENT : 3 COARSE SAND) AND FINISHED SMOOTH WITH A COAT OF NEAT CEMENT.
- 7 A CEMENT CONCRETE COLLAR OF 75MM THICKNESS USING 12.5MM AGGREGATE AND CEMENT CONCRETE PROPORTION 1:1½:3 SHOULD BE PROVIDED OVER THE SEWAR WHERE IT PASSES THROUGH MANHOLE WALLS.
- 8 THE CHANNELS & BENCHING SHALL BE DONE IN CEMENT CONCRETE 1:2:4 WITH 20MM GRADED AGGREGATE AND RENDERED SMOOTH WITH NEAT CEMENT.

CONTINUED TO SHEET 2/5.....

DETAILS OF MANHOLES (BRICK/PCC BLOCKS) FOR DEPTH UPTO 5.0M

CIRCULAR TYPE MAN HOLE IN BRICK MASONRY (FOR DEPTH 1650 TO 2300)

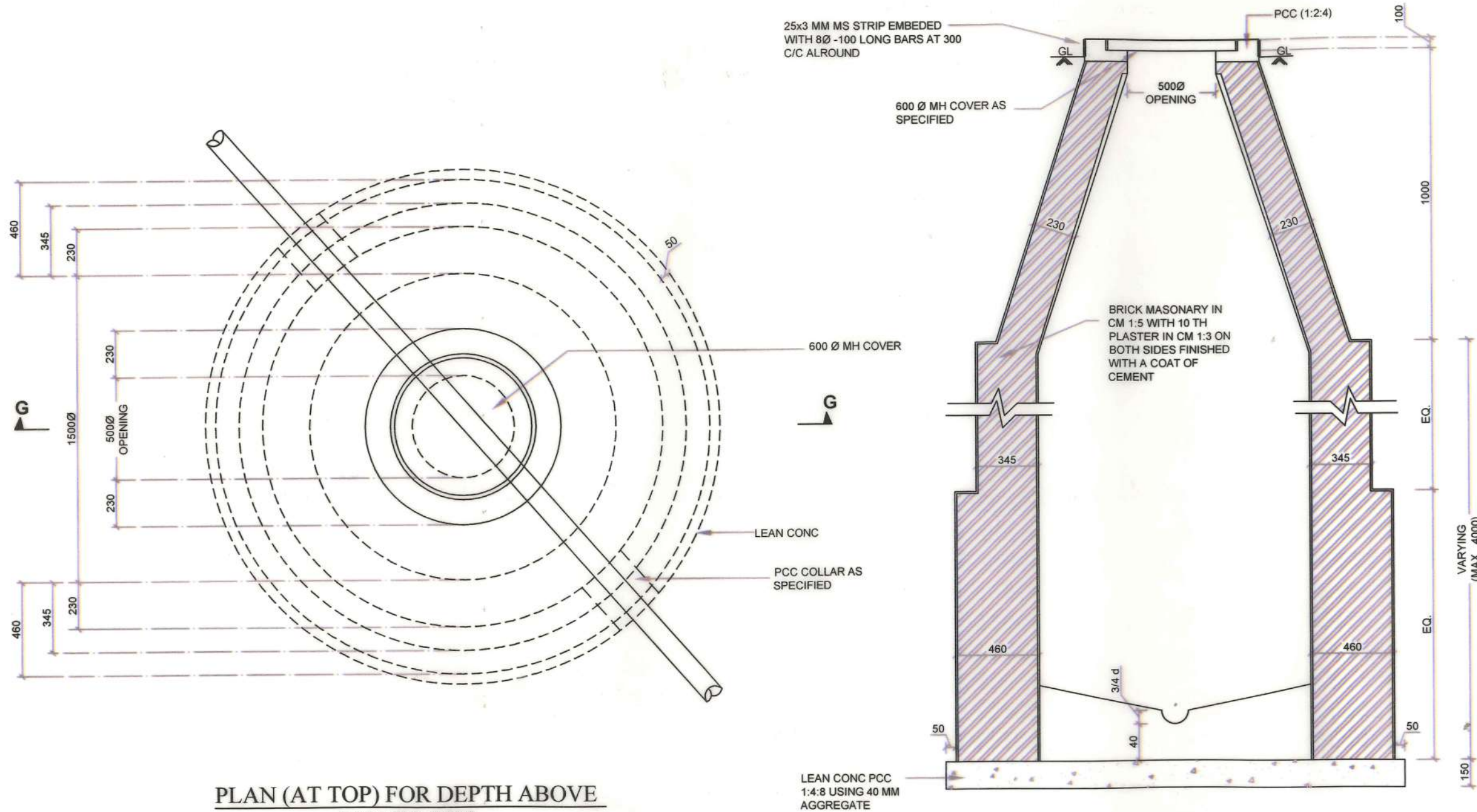
DATE	11-05-04	CHIEF ENGINEER JAIPUR ZONE JAIPUR	SHEET No.
DRN.	-		1/5
TCD.	-		
CKD.	-		
SCALE	-	DRG NO. CEJZ/2004/TD/S-28	

[Signature]
ADDL. ASSTT. DIR. (ARCH)

[Signature]
JT. DIRECTOR (DESIGN)

[Signature]
DIRECTOR (DESIGN)
FOR CHIEF ENGINEER

B-63



PLAN (AT TOP) FOR DEPTH ABOVE
2300 TO 5000

SECTION AT G-G

NOTES CONTINUED FROM SHEET 1/5.

- 9 RUNGS SHALL BE PROVIDED IN ALL MANHOLES OVER 0.8M IN DEPTH & SHALL BE OF CAST IRON.
- 10 THE CEMENT FOR MANHOLE WORK SHALL BE 43 GRADE OPC ISI MARK WITH IS-8112.
- 11 THE MINIMUM CEMENT CONTENT IN CONC. OF MANHOLE COVER & FRAME SHALL BE 360Kg/M³ WITH MAX. WATER CEMENT RATIO OF 0.45. THE CONCRETE IS WEAKER THAN GRADE 1:1:2 WILL NOT BE USED.
- 12 IN SECTIONS 'd' INDICATES INTERNAL DIAMETER OF SEWAGE PIPE.
- 13 'a' & 'b' INDICATES THICKNESS OF WALL WHICH IS AS UNDER:-

	BRICK WALL	PCC BLOCK WALL
'a'	230	200
'b'	345	300
- 14 WHERE BRICKS ARE NOT AVAILABLE, PCC BLOCKS TYPE D5 AS PER IS : 2185 SHALL BE USED. CARE SHALL BE TAKEN TO CHECK THE GRADING OF THE COURSE AGGREGATE TO ENSURE THAT THE CONCRETE IS NOT PERVIOUS PCC BLOCKS SHALL BE MACHINE MADE.
- 15 WHERE EVER THE MANHOLE IS COMING ON ROAD, THE TOP OF MANHOLE SHOULD FLUSH WITH THE TOP OF ROAD. THE CI MANHOLE COVER CAN ALSO BE PROVIDED ON ROAD.
- 16 IN CASE OF BLACK COTTON SOIL 300TH LAYER OF MOORUM SHALL BE FILLED AT BOTTOM AND SIDES OF MAINHOLE. (MOORUM FILLING NOT SHOWN IN SECTIONS).
- 17 THIS DRG. HAS BEEN PREPARED BASED ON DRG. NO. TD-631.

**DETAILS OF MANHOLES
(BRICK/PCC BLOCKS) FOR DEPTH
UPTO 5.0M**

**CIRCULAR TYPE MAN HOLE IN
BRICK MASONRY (FOR DEPTH
ABOVE 2300 TO 5000)**

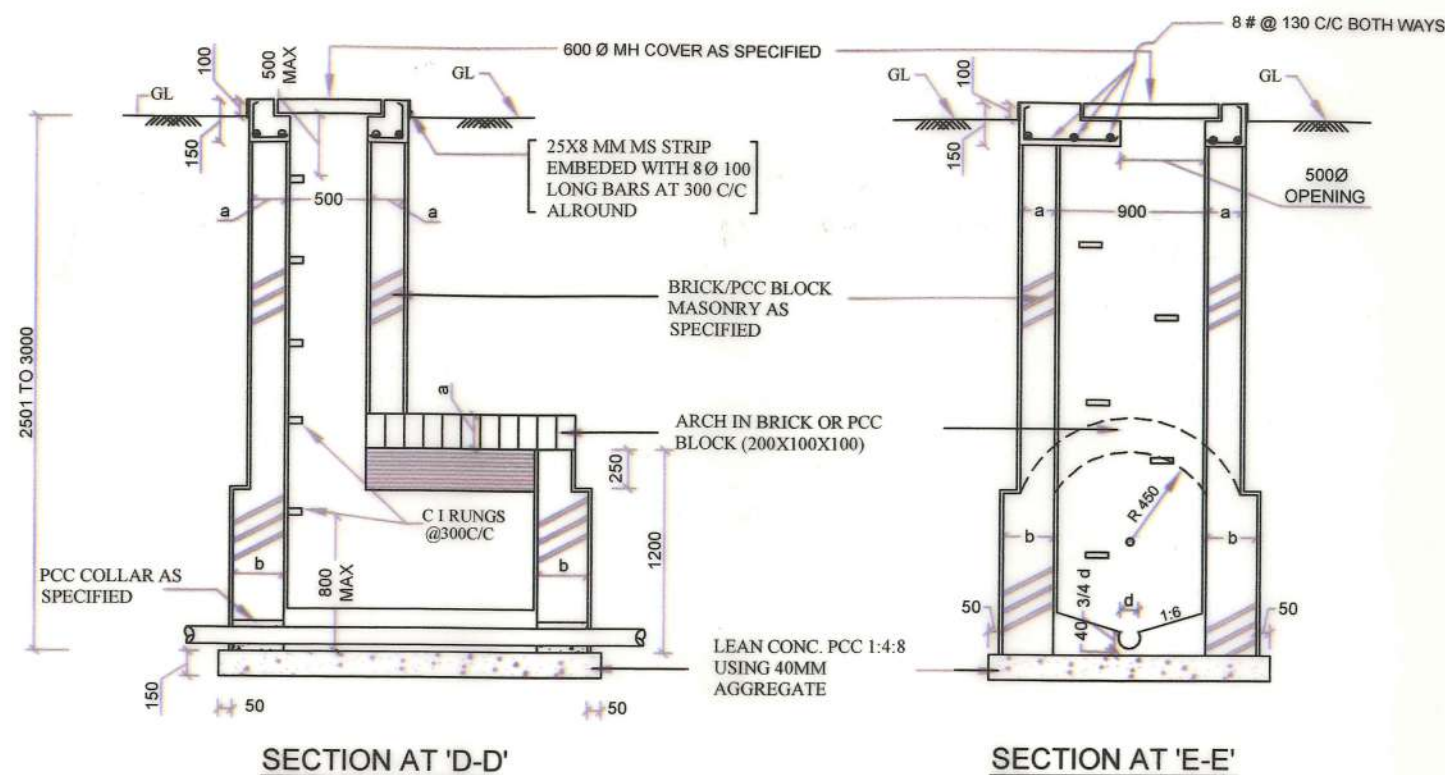
DATE	11-05-04	CHIEF ENGINEER JAIPUR ZONE JAIPUR	SHEET No.
DRN.	—		2/5
TCD.	—		
CKD.	—		
SCALE	—	DRG NO. CEJZ/2004/TD/S-28	

[Signature]
ADDL. ASSTT. DIR. (ARCH)

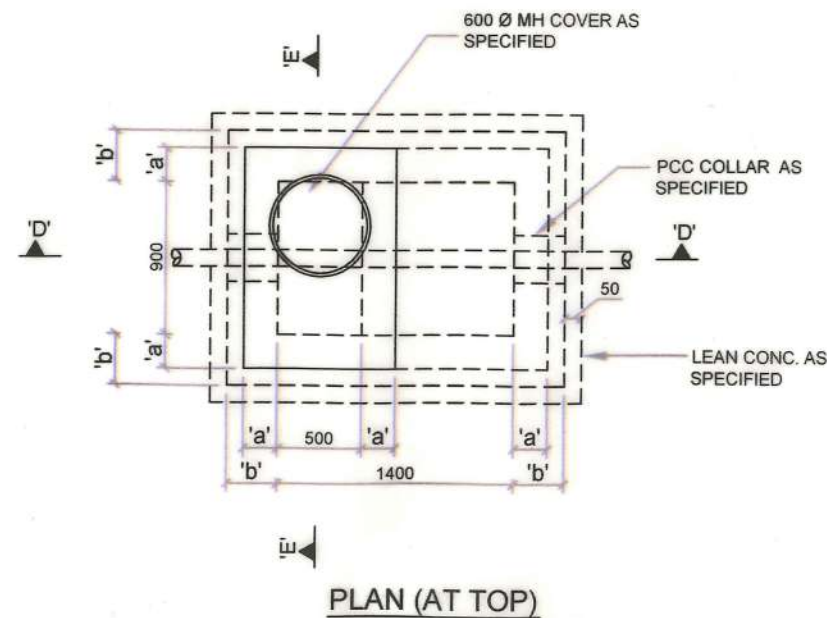
[Signature]
JT. DIRECTOR (DESIGN)

[Signature]
DIRECTOR (DESIGN)
FOR CHIEF ENGINEER

B-64



ARCH TYPE MAN HOLE (BRICK/PCC BLOCK MASONRY) FOR 2501 TO 5000 DEPTH



NOTE: 'a' & 'b' INDICATES THICKNESS OF WALL. (REF. NOTE NO. 13 IN SHEET NO. 2/5)

NOTES

1. FOR ALL NOTES REFER SHT. NO. 1/5 & 2/5 OF THIS DRG.

DETAILS OF MANHOLES (BRICK/PCC BLOCKS) FOR DEPTH UPTO 5.0M

ARCH TYPE MAN HOLE (BRICK/PCC BLOCK MASONRY) FOR 2501 TO 5000 DEPTH.

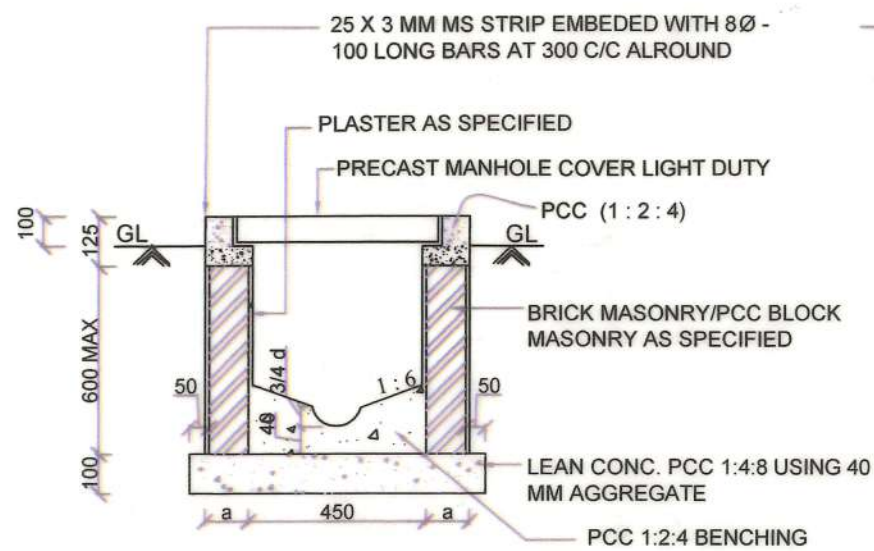
DATE	11-05-04	CHIEF ENGINEER JAIPUR ZONE JAIPUR	SHEET No.
DRN.	-		3/5
TCD.	-		
CKD.	-		
SCALE	-	DRG NO. CEJZ/2004/TD/S-28	

[Signature]
ADDL. ASSTT. DIR. (ARCH)

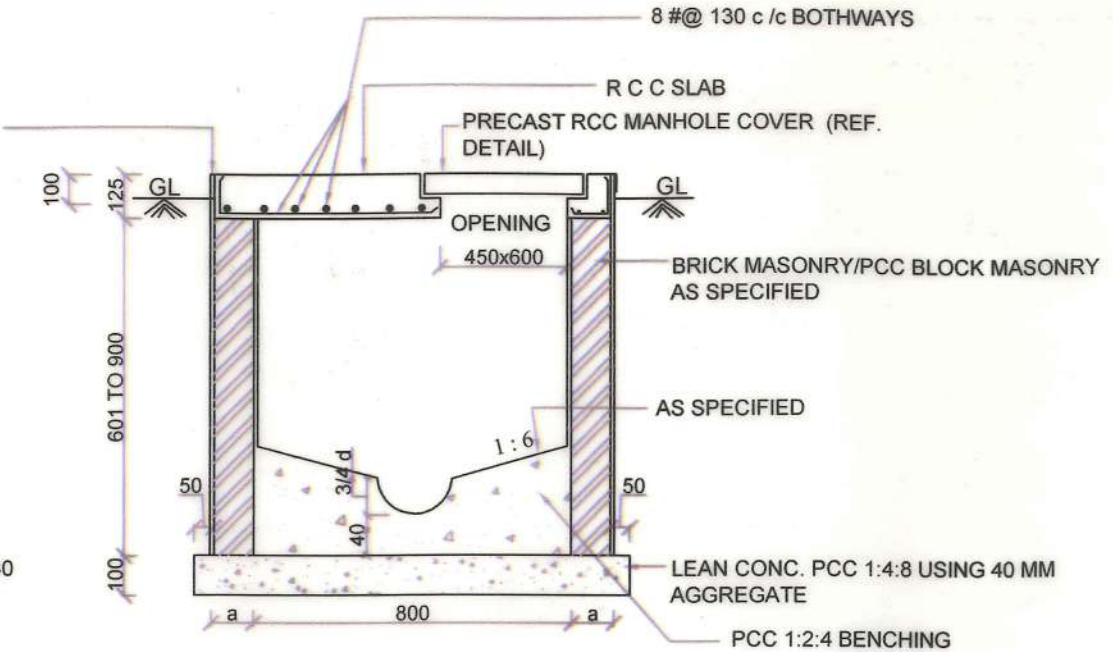
[Signature]
JT. DIRECTOR (DESIGN)

[Signature]
DIRECTOR (DESIGN)
FOR CHIEF ENGINEER

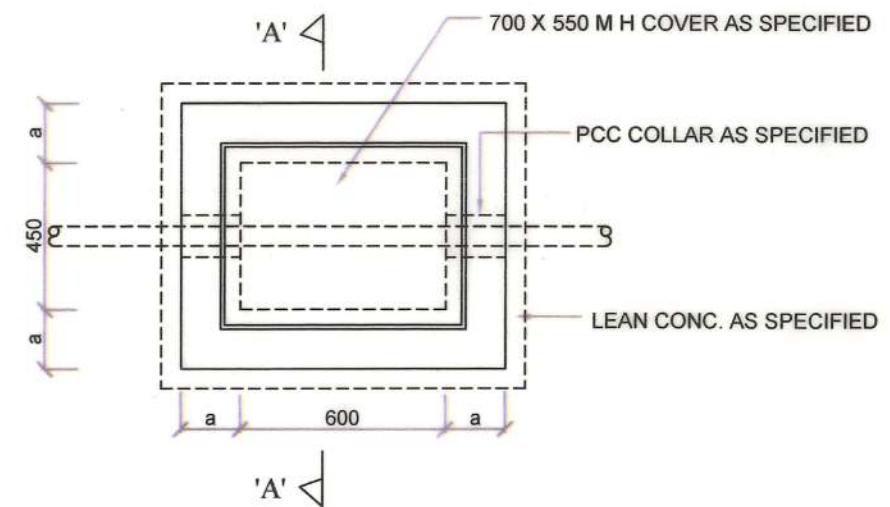
B-65



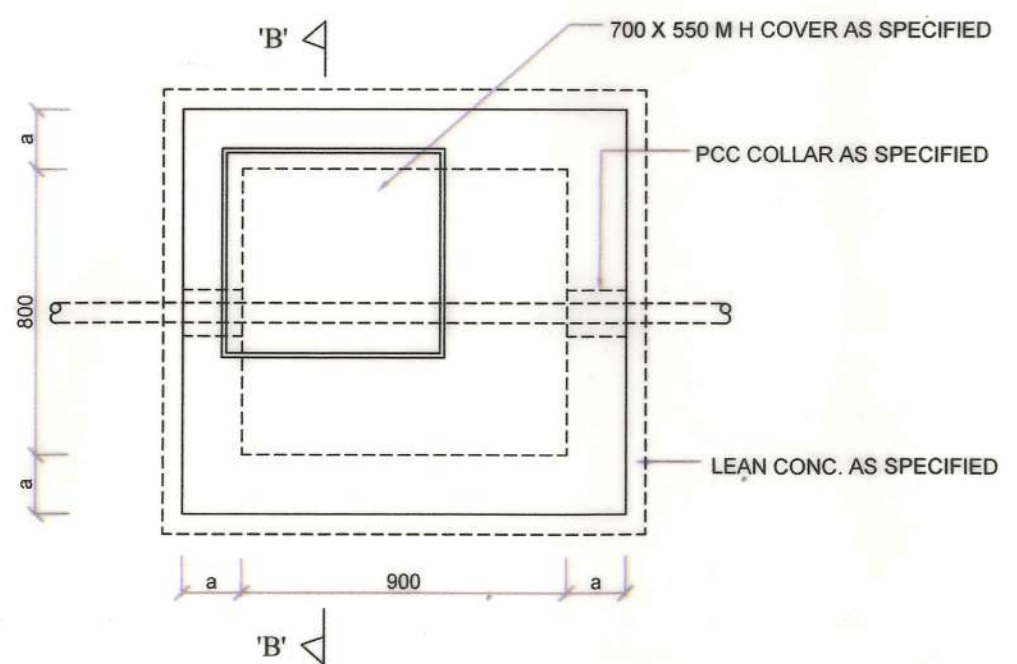
SECTION AT 'A A'



SECTION AT 'B B'



PLAN (AT TOP) FIRST MANHOLE



PLAN (AT TOP)
MANHOLE 601 TO 900 DEEP

RECTANGULAR MANHOLE (BRICK / P C C BLOCK MASONRY)

NOTES

1 FOR ALL NOTES REFER SHT. NO .1/5 & 2/5 OF THIS DRG.

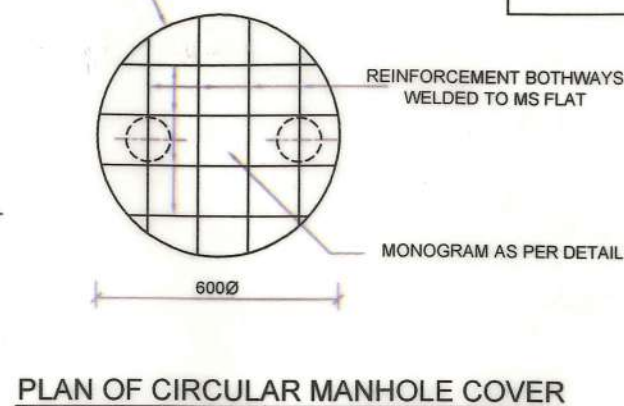
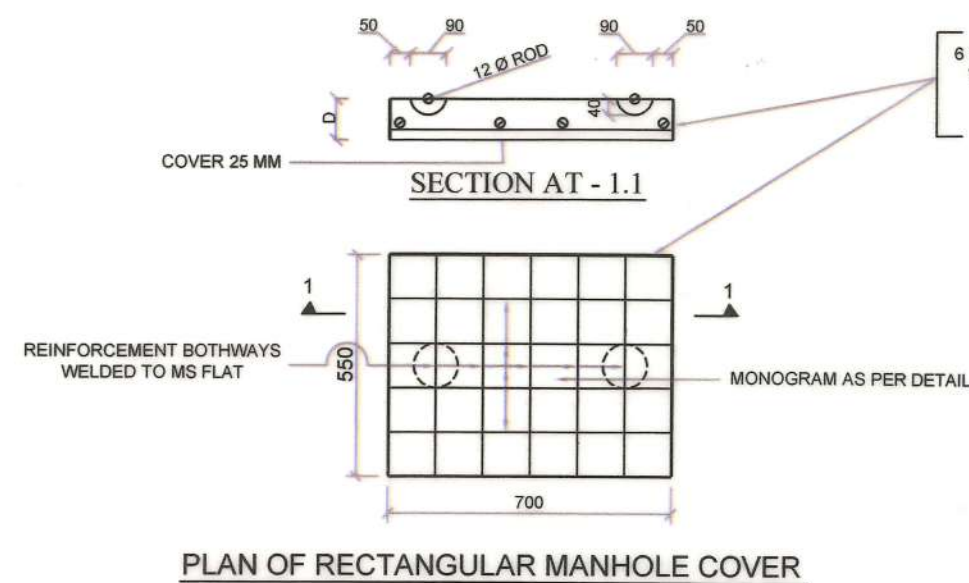
**DETAILS OF MANHOLES
(BRICK/PCC BLOCKS)FOR DEPTH
UPTO 5.0M**

**RECTANGULAR MAN HOLE
(BRICK/PCC BLOCK MASONRY)**
1) FIRST MAN HOLE
2) MAN HOLE 601 TO 900 DEEP.

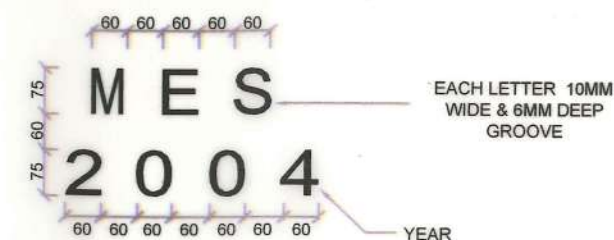
DATE	11-05-04	CHIEF ENGINEER JAIPUR ZONE JAIPUR	SHEET No.
DRN.	—		4/5
TCD.	—		
CKD.	—		
SCALE	—	DRG NO. CEJZ/2004/TD/S-28	

ADDL. ASSTT. DIR.(ARCH)	
	DIRECTOR (DESIGN) FOR CHIEF ENGINEER
JT. DIRECTOR (DESIGN)	

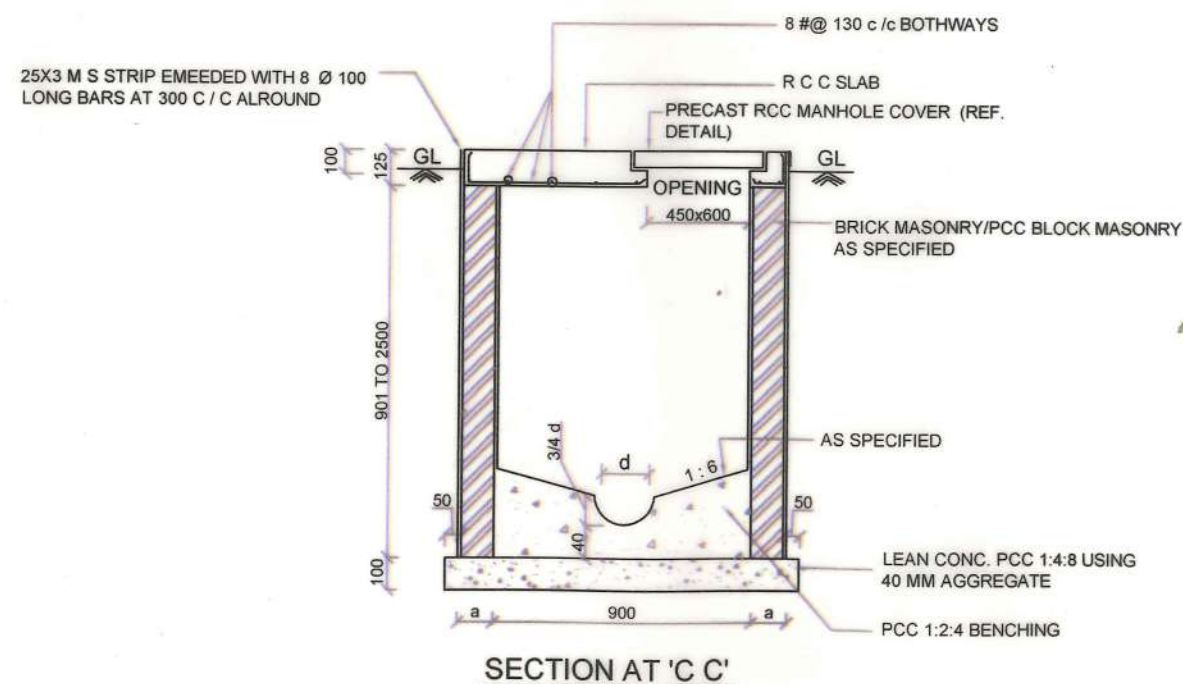
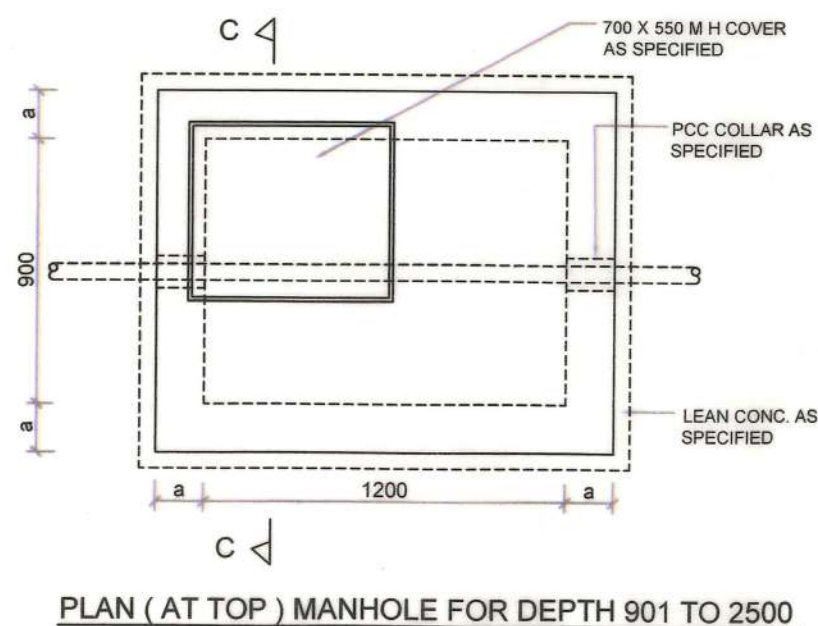
B-66



MANHOLE TYPE			
	LIGHT DUTY	MEDIUM DUTY	HEAVY DUTY
1. THICKNESS 'D'	50 MM	60 MM	75 MM
2. REINFORCEMENT	8 # @ 150 C/C BOTH WAYS	8 # @ 140 C/C BOTH WAYS	8 # @ 130 C/C BOTH WAYS



PRECAST RCC MANHOLE COVERS



RECTANGULAR TYPE MANHOLE BRICK / PCC BLOCK MASONRY

NOTES


1 FOR ALL NOTES REFER SHT. NO .1/5 & 2/5 OF THIS DRG.

**DETAILS OF MANHOLES
(BRICK/PCC BLOCKS)FOR DEPTH
UPTO 5.0M**

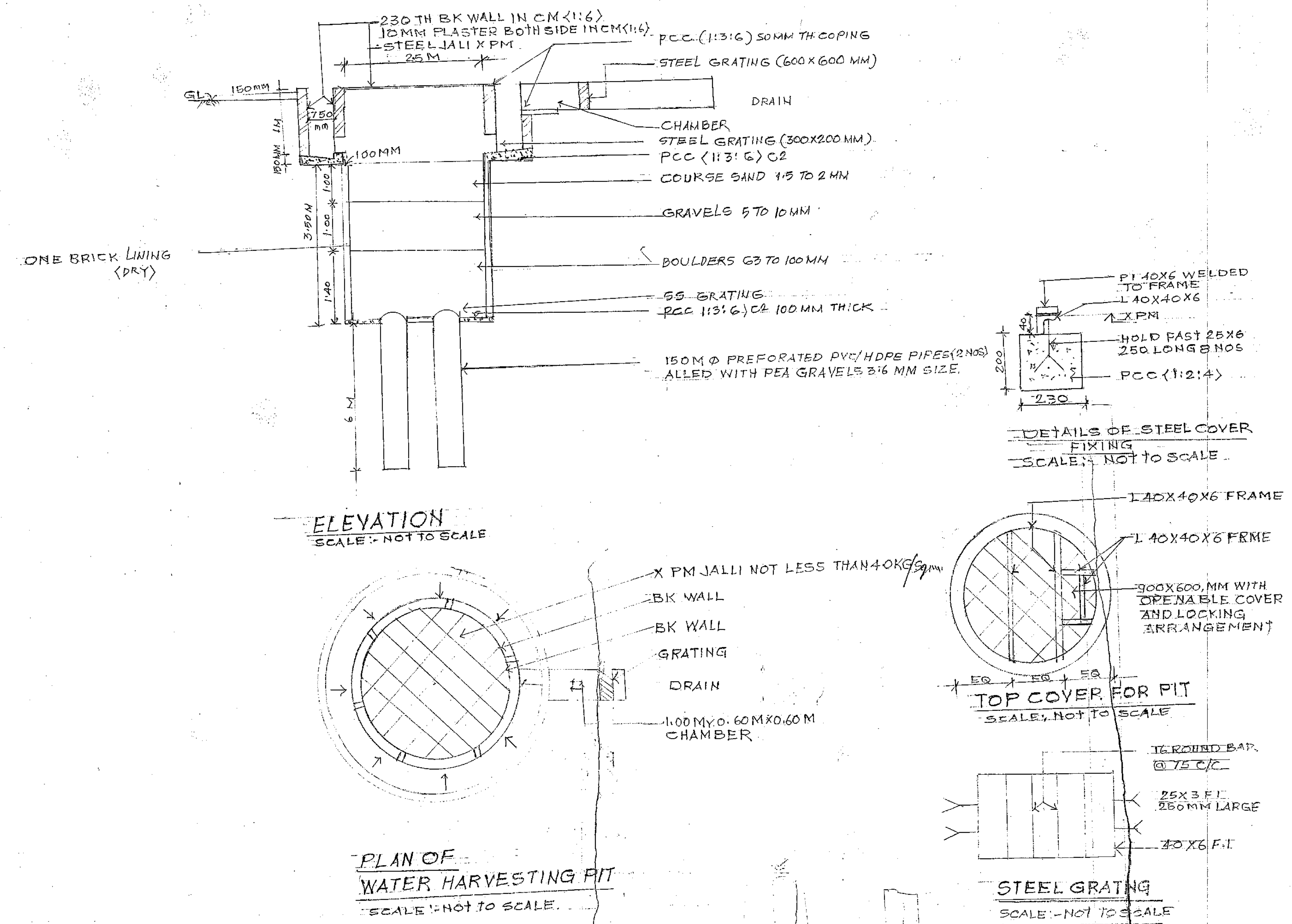
**RECTANGULAR MAN HOLE
(BRICK/PCC BLOCK MASONRY)
FOR DEPTH 900 TO 2500 &
DETAILING PRE CAST MAN HOLE
COVERS.**

DATE	11-05-04	CHIEF ENGINEER JAIPUR ZONE JAIPUR	SHEET N
DRN.	—		5/5
TCD.	—		
CKD.	—		
SCALE	—	DRG NO. CEJZ/2004/TD/S-28	

ADDL. ASSTT. DIR. (ARCH)

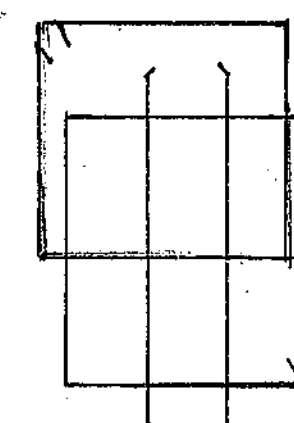

 JT. DIRECTOR (DESIGN)

SK-E
DIRECTOR (DESIGN)
FOR CHIEF ENGINEER

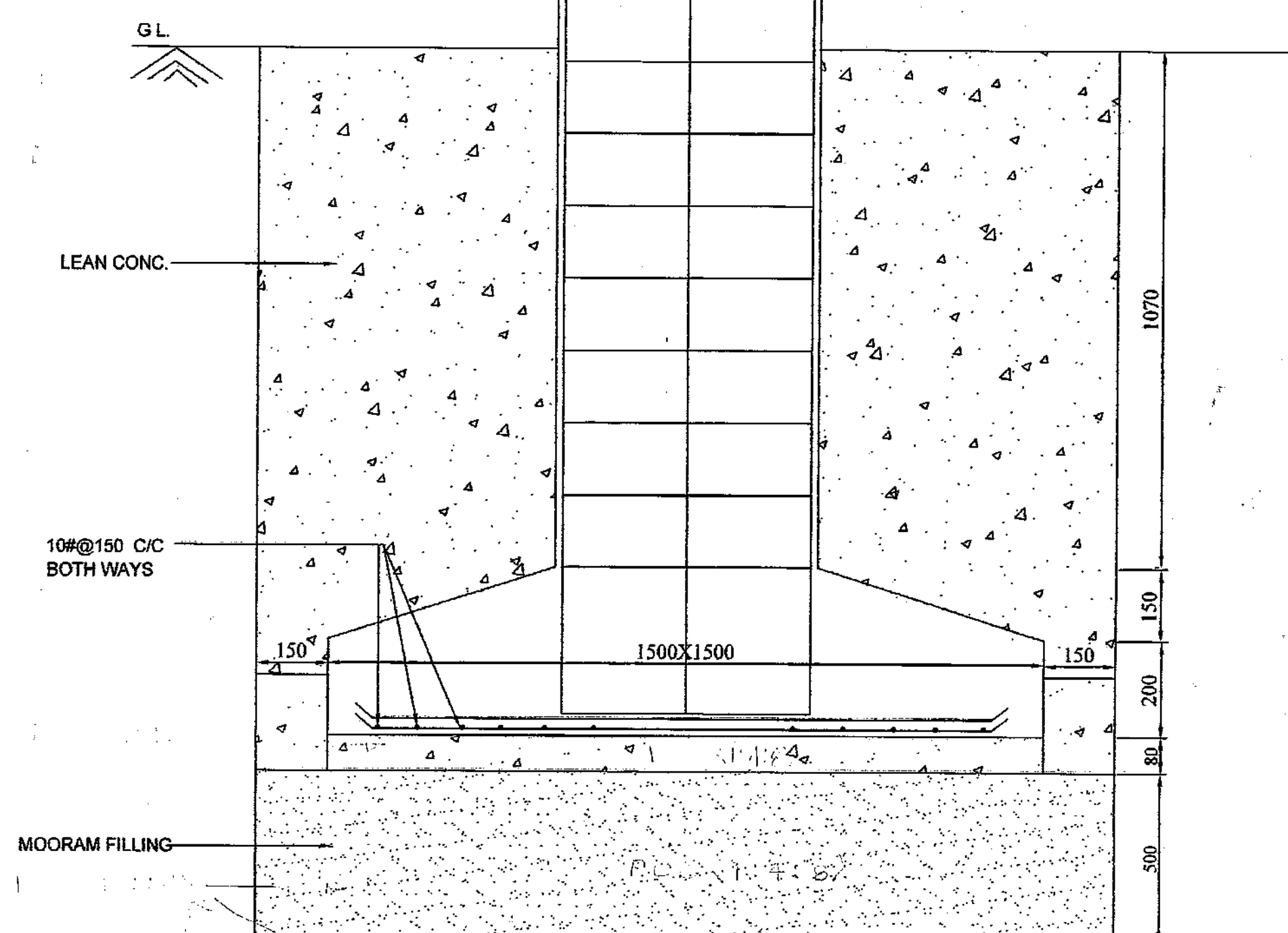


DETAIL OF WATER HARVESTING PIT.		
PLAN, SECTIONS AND OTHER DETAILS.		
DATE - 16-6-08	CHIEF ENGINEER	SHEET NO
DRN -	JAIPUR ZONE	1/1
TCD -	JAIPUR	
CKD -		
SCALE - AS SHOWN	DRG NO: ID/2008/98	
CITY ARCH		OFFICE ARCH FOR CHIEF ENGINEER

1 FOR ALL NOTES REF 1/3 OF THIS DRG
2 RFR (RETURNING AND FILLING) SHALL
BE DONE WITH MOORAM



DETAIL OF 4 LEGGED
STIRRUPS/TIE



RCC COLUMN
500 X 500




2	23-6-09	DIMENSION CORRECTED IN SEC AA	11
1	23-6-09	DETAIL OF A LEGGED STIRRUPS/TIED ADDED	12
S/N		DATE	DESCRIPTION

REVISION

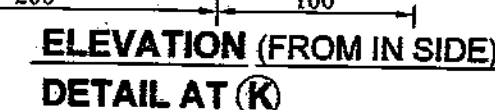
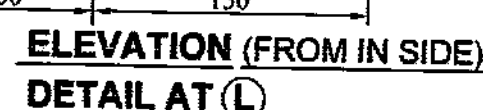
**STEEL GATE (4.0/5.0/5.5) M² WIDE)
& WICKET GATE (1.2/1.5 M WIDE)**

SECTION & DETAIL

DATE	08-09-08	CHIEF ENGINEER JAIPUR ZONE JAIPUR	SHEET No
DRN.	PRADHAN		3/3
TCD.			
CKD.			
SCALE		DRG NO. TD/2008/101	

 JT. DIR. (ARCH)	 DIRECTOR (DESIGN) FOR CHIEF ENGINEER
 JT. DIR. (DESIGN)	

- 1 CONTRACTOR TO CHECK & VERIFY ALL DIMENSIONS BEFORE EXECUTION OF THE WORK.
- 2 FIGURED DIMENSIONS SHALL BE FOLLOWED.
- 3 ALL DIMENSIONS GIVEN ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
- 4 THIS DRAWING IS BASED ON TD/531-



DETAILS OF LOCKING ARRANGEMENT



1	03-6-9	REVISED UP TO DATE	
SN.	DATE	DISCRIPTION	IN
REVISION			

STEEL GATE (4.0/5.0/5.5 M WIDE)
& WICKET GATE (1.2/1.5 M WIDE)

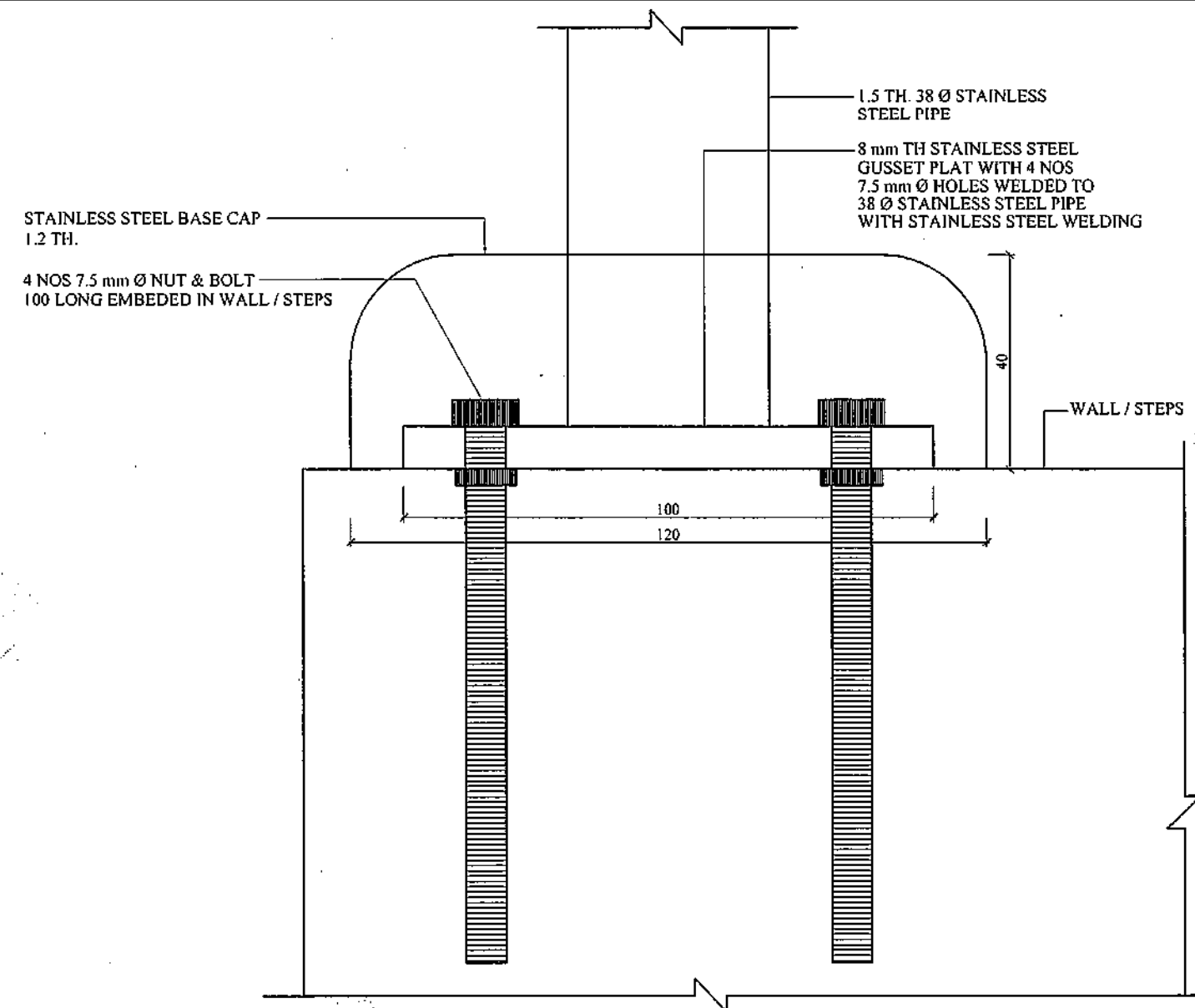
SECTION & DETAILS

DATE	08-09-08	CHIEF ENGINEER JAIPUR ZONE JAIPUR	SHEET No.
DRN.	PRADHAN		2/3
TCd.	—		
CKD.	—		
SCALE	—		
		DISC NO. TD/2008/101	

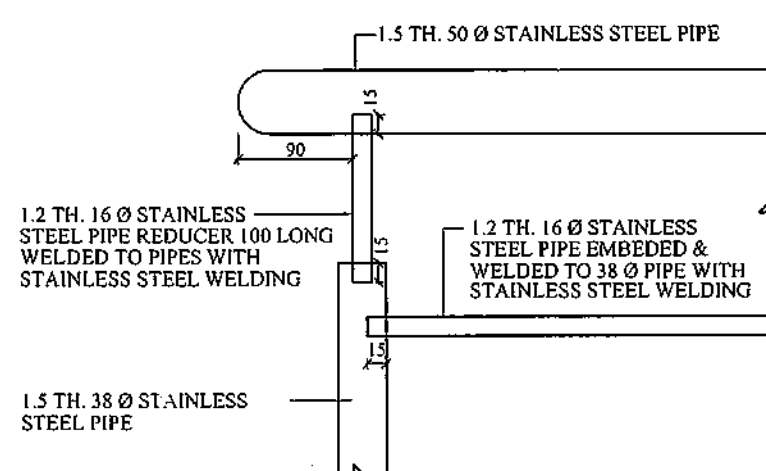
ADD. ASSTT DIR (ARCH) OFFG DIRECTOR (ARCH)
FOR CHIEF OF BUREAU

2-20

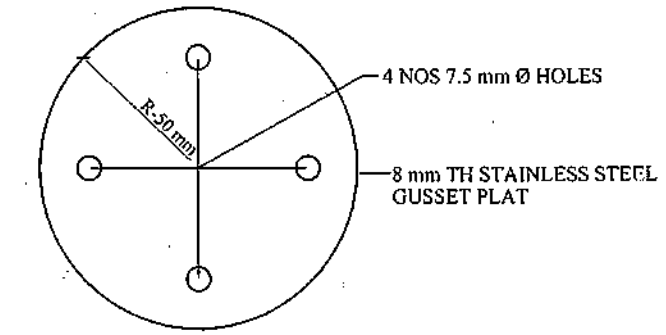
1548=1408+1408-07



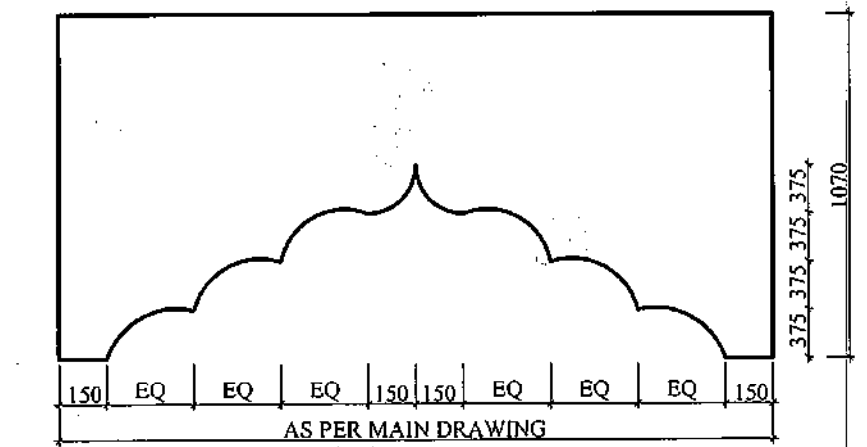
DETAIL AT B
SCALE - 1:1



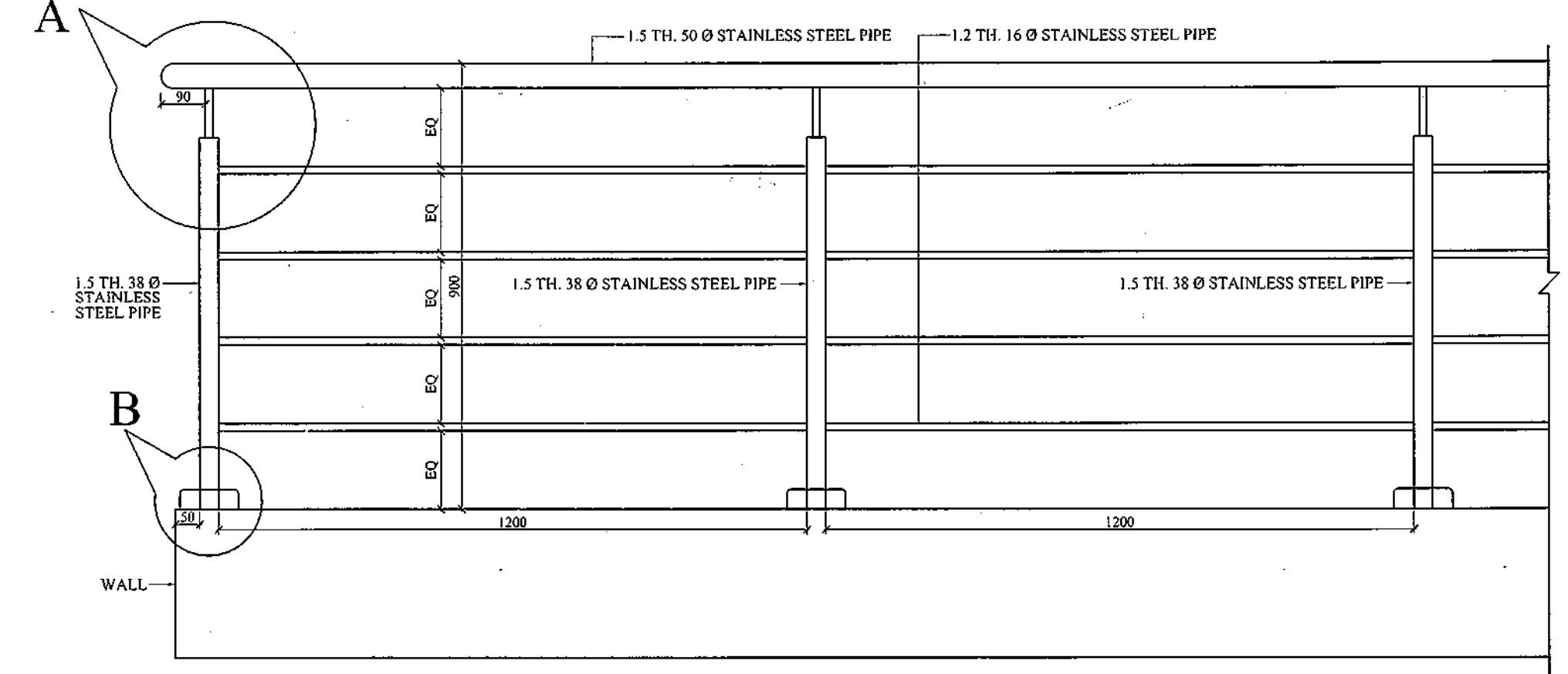
DETAIL AT A
SCALE - 1:5



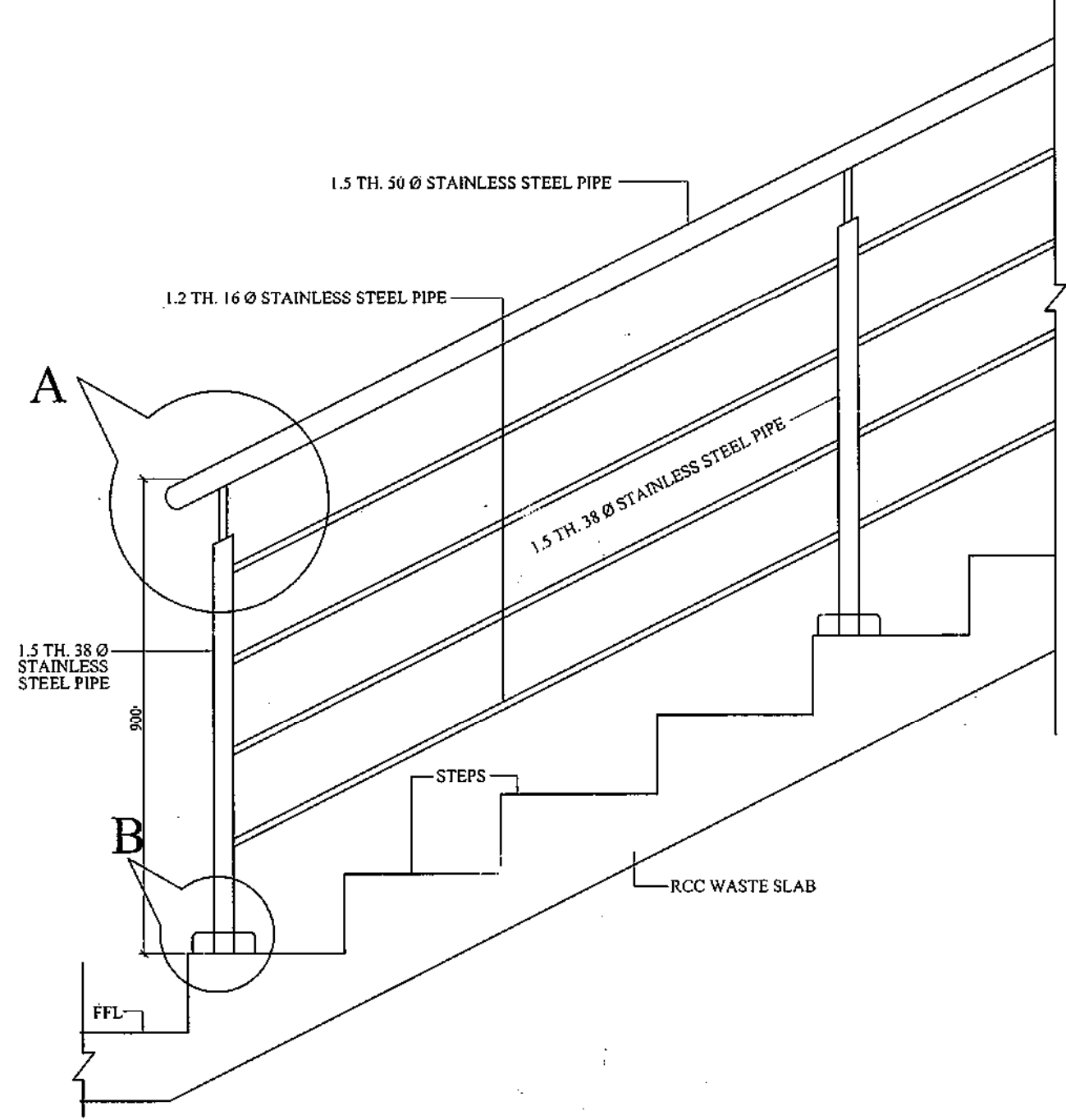
DETAIL OF STAINLESS STEEL GUSSET PLATE
SCALE - 1:2



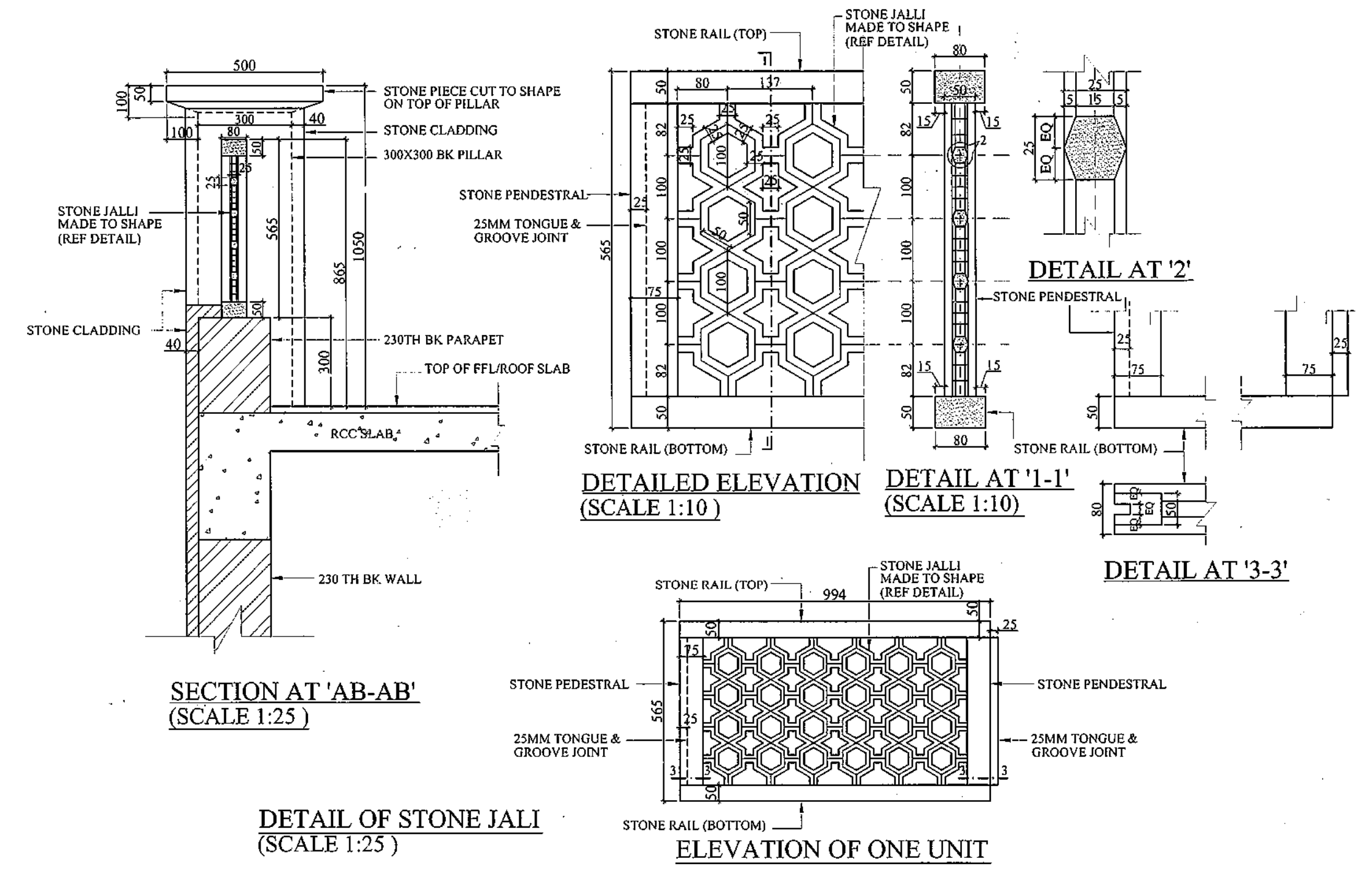
DETAIL OF ARCH
SCALE - 1:20



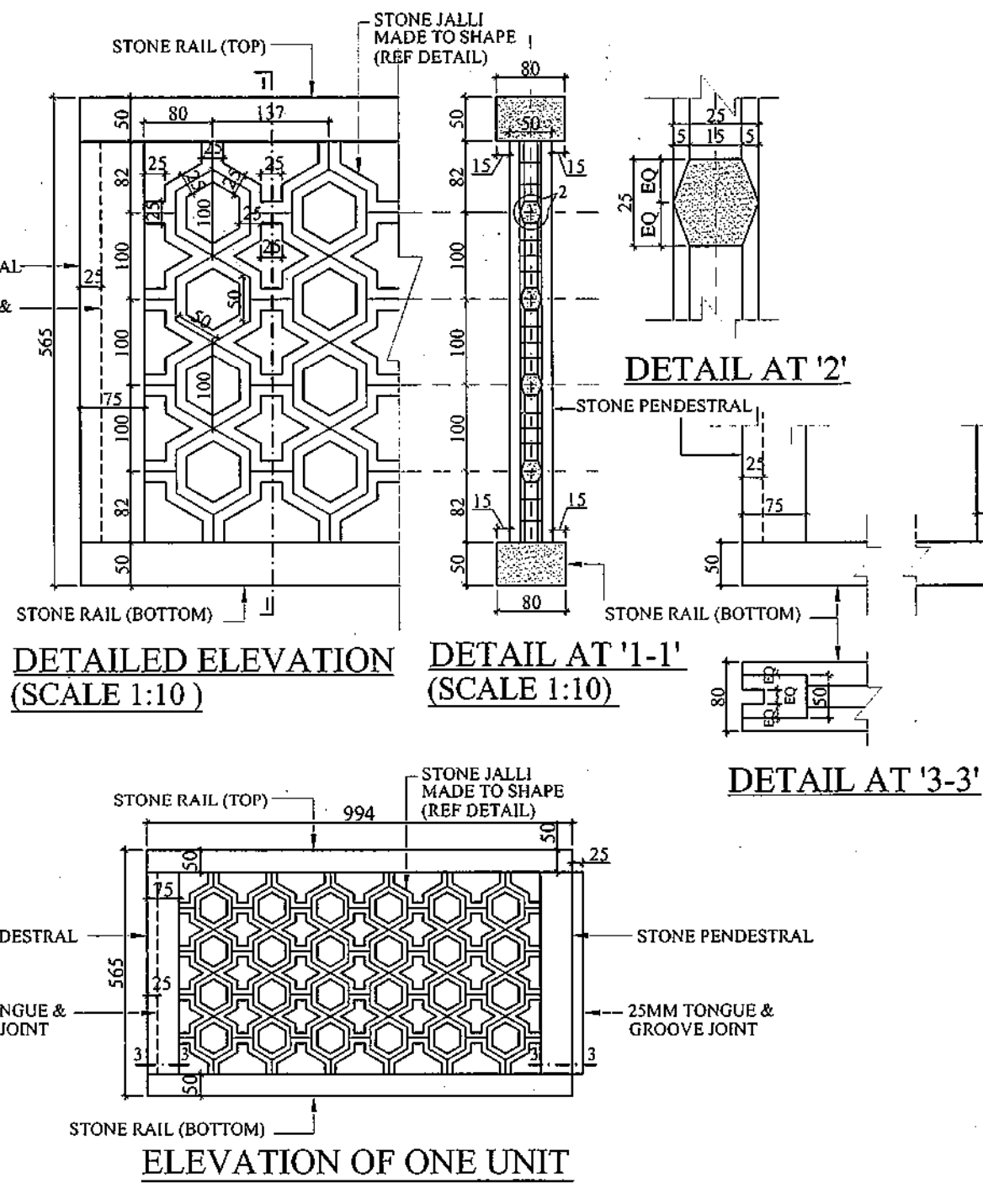
ELEVATION OF STAINLESS STEEL RAILING
SCALE - 10



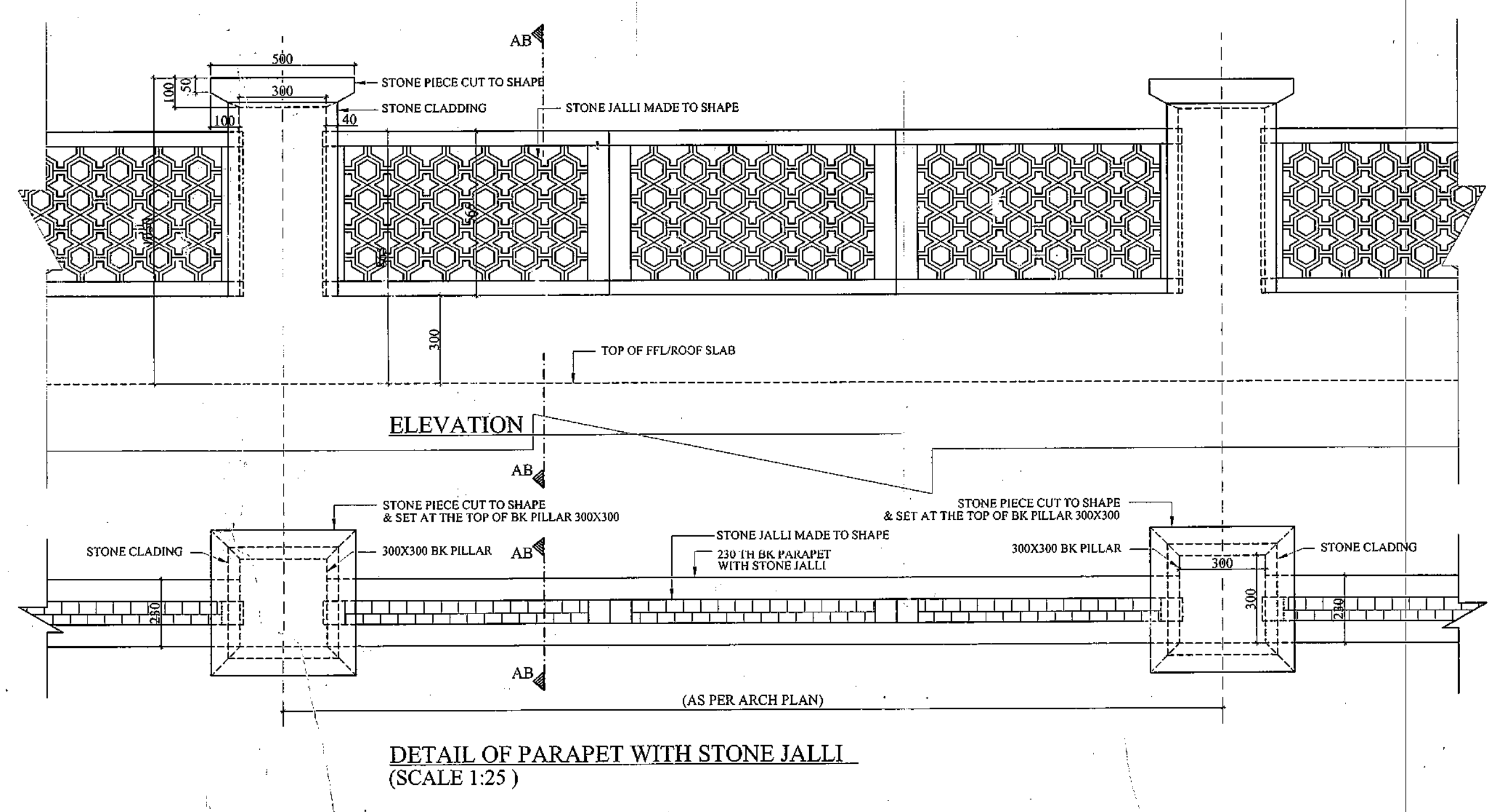
ELEVATION OF STAINLESS STEEL RAILING IN STAIR CASE
SCALE - 10



DETAIL OF STONE JALI
(SCALE 1:25)



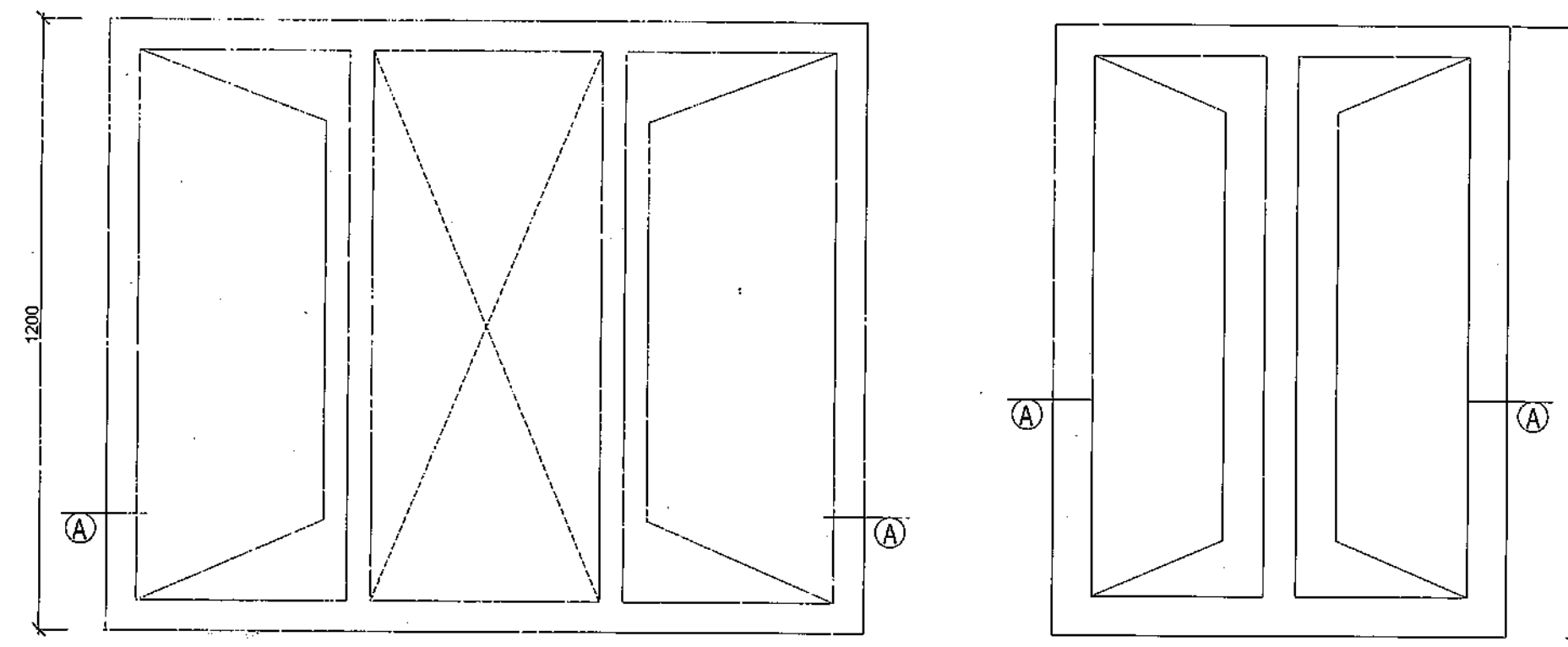
ELEVATION OF ONE UNIT



DETAIL OF PARAPET WITH STONE JALI
(SCALE 1:25)

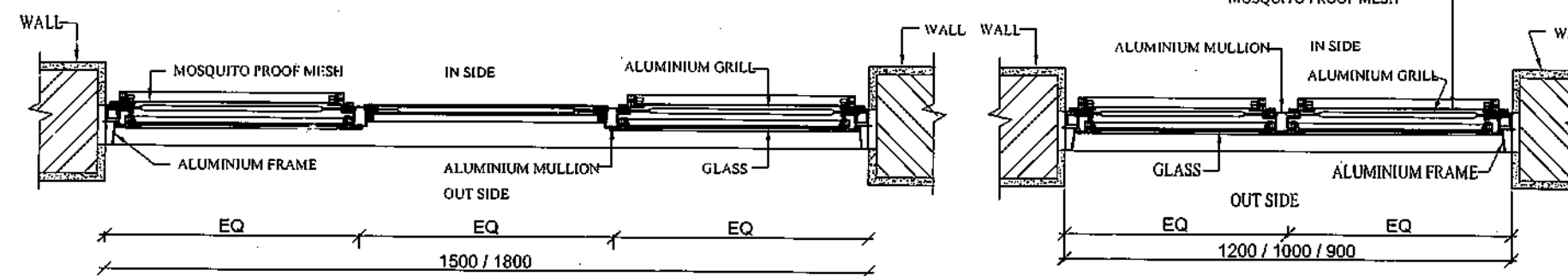
- NOTES
1. CONTRACTOR TO CHECK & VERIFY ALL DIMENSIONS BEFORE EXECUTION OF WORK.
 2. FIGURED DIMENSIONS SHALL BE FOLLOWED.
 3. ALL DIMENSIONS ARE GIVEN IN MM UNLESS OTHERWISE MENTIONED.

SNO.	DATE	DESCRIPTION	T.O.	SO-I
			INITIAL	
REVISIONS				
DATE	04-07-2012	HQ CHIEF ENGINEER JAIPUR ZONE		
DRN	H V SHARMA	PROVN OF OTM ACCN FOR SWC AT JAIPUR MIL STN (PH-I)		
TCD		MISC. DETAILS		
CKD		DETAIL OF STAINLESS STEEL RAILING, STONE JALI AND DETAIL OF ARCH		
SCALE	AS SHOWN			
SHT. SIZE				
TECH OFFICER		SHEET NO.		
DIRECTOR (ARCH) FOR CHIEF ENGINEER		1/1		
		DRG NO. TD/2012/10		



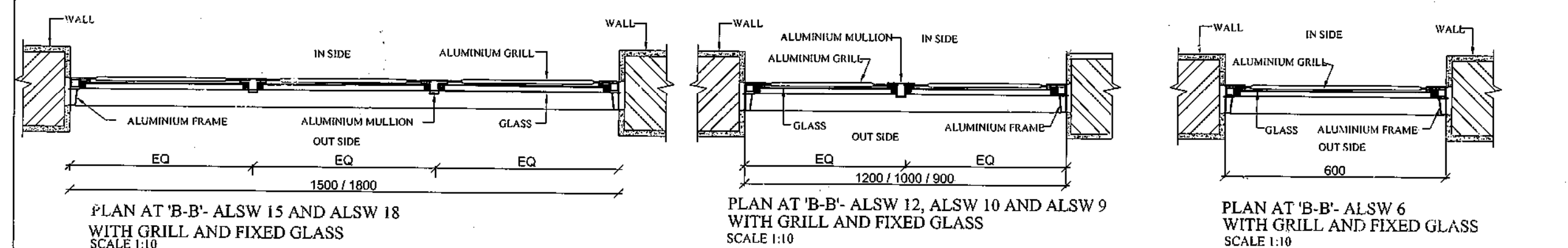
ELEVATION - ALSW 15 AF AND ALSW 18 AF

ELEVATION :- ALSW 12AF, ALSW 10AF AND ALSW 9A



PLAN AT 'A-A'- ALSW 15A F AND ALSW 18 AF
WITH GRILL, GLASS AND MOSQUITO PROOF INSIDE
SCALE 1:10

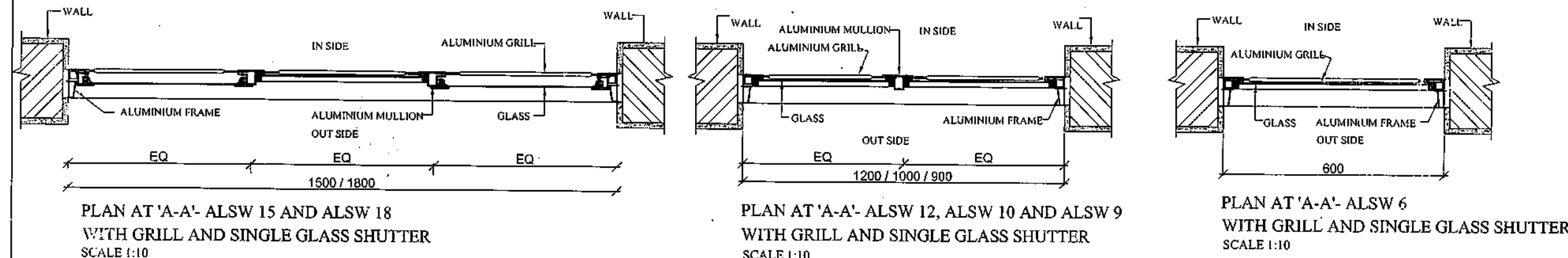
PLAN AT 'A-A'- ALSW12AF, ALSW10AF AND ALSW9A
WITH GRILL, GLASS AND MOSQUITO PROOF INSIDE
SCALE 1:10



PLAN AT 'B-B'- ALSW 15 AND ALSW 18
WITH GRILL AND FIXED GLASS
SCALE 1:10

PLAN AT 'B-B'- ALSW 12, ALSW
WITH GRILL AND FIXED GLASS
SCALE 1:10

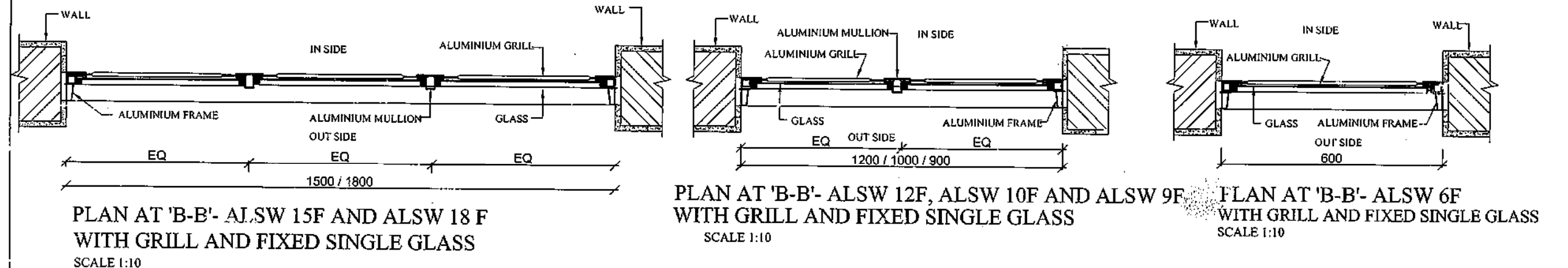
PLAN AT 'B-B'- ALSW 6
WITH GRILL AND FIXED GLASS
SCALE 1:10



PLAN AT 'A-A'- ALSW 15 AND ALSW 18
WITH GRILL AND SINGLE GLASS SHUTTER
SCALE 1:10

PLAN AT 'A-A'- ALSW 12, ALSW 10 AND ALSW 9
WITH GRILL AND SINGLE GLASS SHUTTER
SCALE 1:10

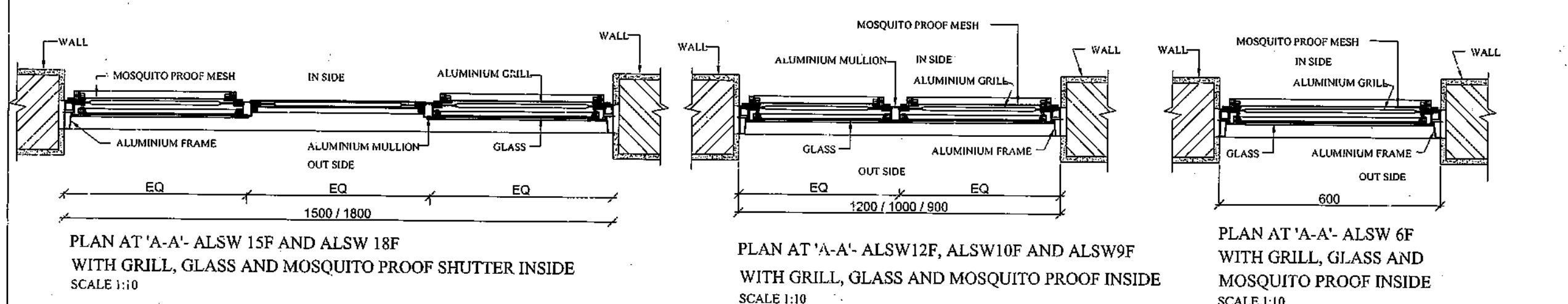
PLAN AT 'A-A'- ALSW 6
WITH GRILL AND SINGLE GLASS SHUTTER
SCALE 1:10



PLAN AT 'B-B'- ALSW 15F AND ALSW 18
WITH GRILL AND FIXED SINGLE GLASS
SCALE 1:10

PLAN AT 'B-B'- ALSW 12F, ALSW 10F AND ALSW 9F
WITH GRILL AND FIXED SINGLE GLASS

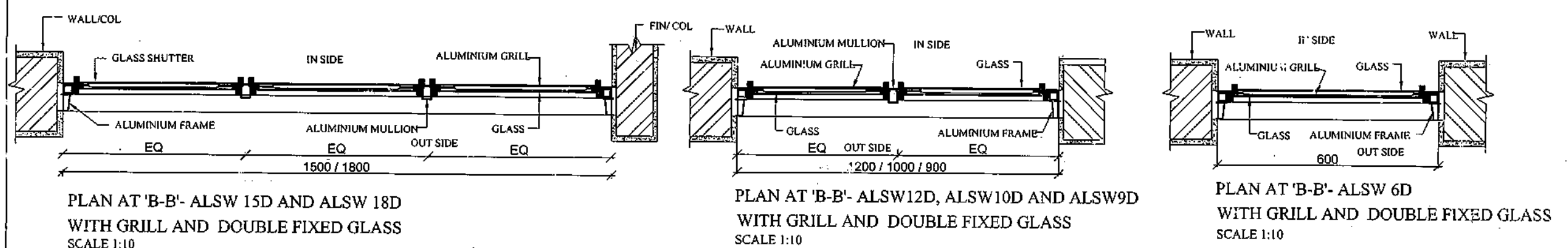
FLAN AT 'B-B'- ALSW 6F
WITH GRILL AND FIXED SINGLE GLASS.



PLAN AT 'A-A'- ALSW 15F AND ALSW 18F
WITH GRILL, GLASS AND MOSQUITO PROOF SHUTTER INSIDE

PLAN AT 'A-A'- ALSW12F, ALSW10F AND ALSW9F
WITH GRILL, GLASS AND MOSQUITO PROOF INSIDE
SCALE 1:10

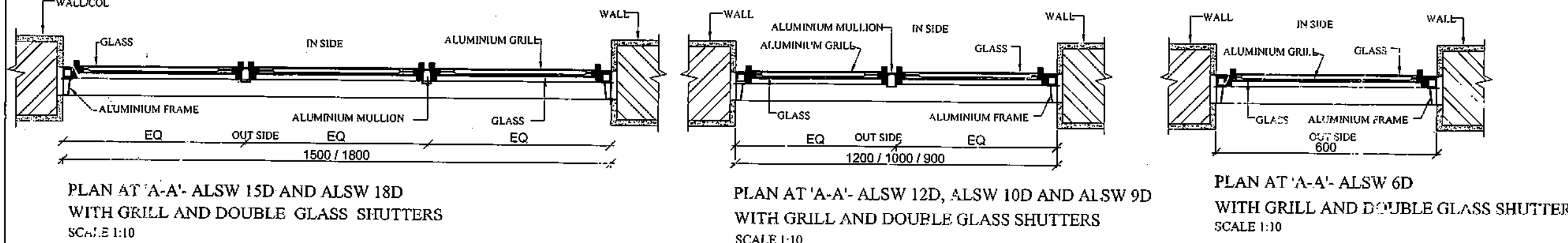
PLAN AT 'A-A'- ALSW 6F
WITH GRILL, GLASS AND
MOSQUITO PROOF INSIDE
SCALE 1:10



PLAN AT 'B-B'- ALSW 15D AND ALSW 18D
WITH GRILL AND DOUBLE FIXED GLASS
SCALE 1:10

PLAN AT 'B-B'- ALSW12D, ALSW10D AND ALSW9D
WITH GRILL AND DOUBLE FIXED GLASS
SCALE 1:10

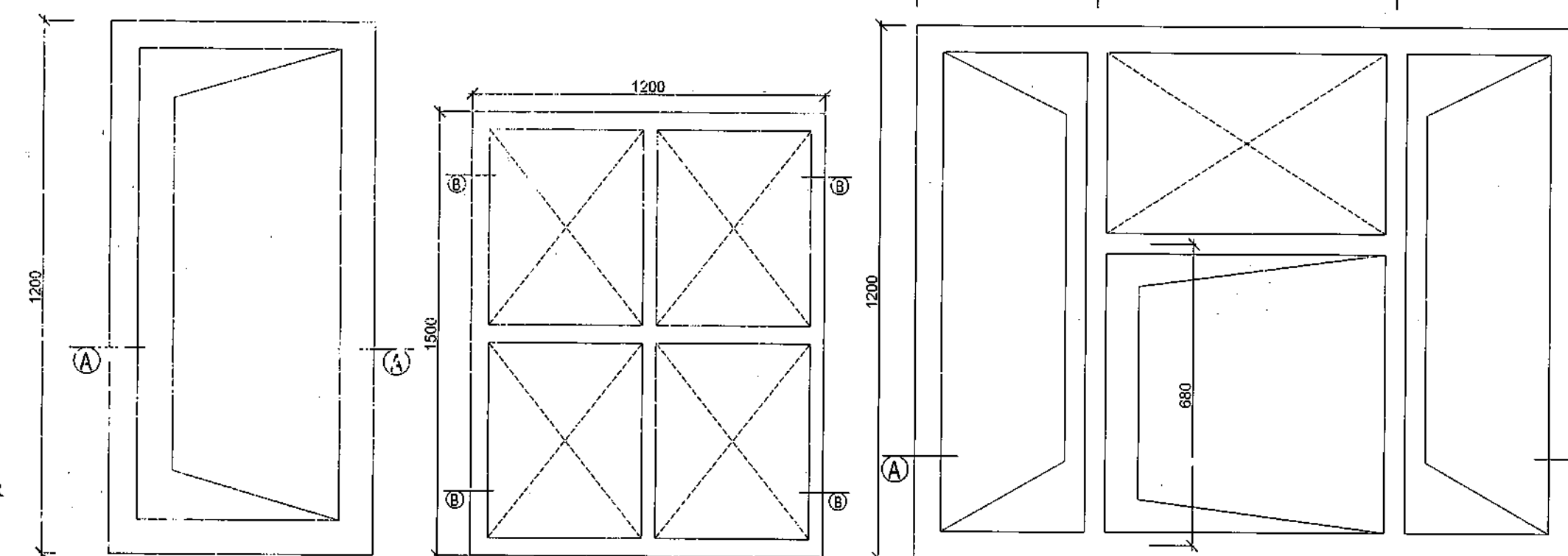
PLAN AT 'B-B'- ALSW 6D
WITH GRILL AND DOUBLE FIXED GLASS
SCALE 1:10



PLAN AT 'A-A'- ALSW 15D AND ALSW 18D
WITH GRILL AND DOUBLE GLASS SHUTTERS
SCALE 1:10

PLAN AT 'A-A'- ALSW 12D, ALSW 10D AND ALSW 9D
WITH GRILL AND DOUBLE GLASS SHUTTERS
SCALE 1:10

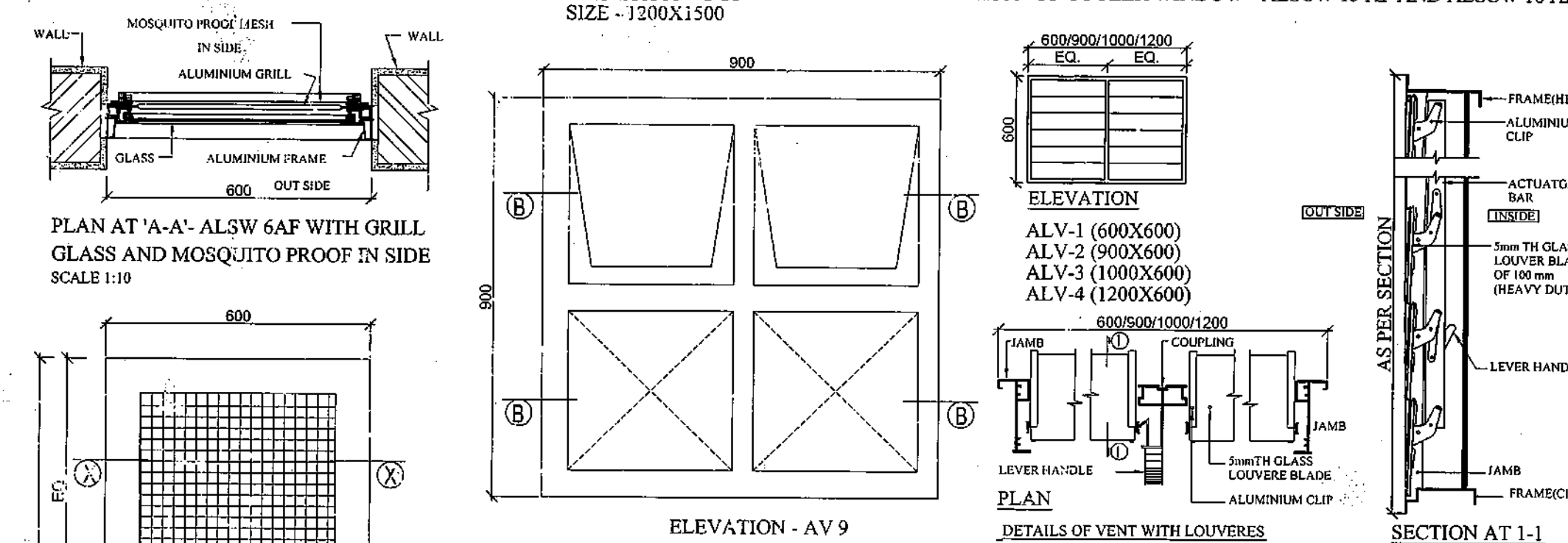
PLAN AT 'A-A'- ALSW 6D
WITH GRILL AND DOUBLE GLASS SHUTTERS
SCALE 1:10



ELEVATION :-ALSW 6A

ELEVATION - FGM
SIZE - 1200X1500

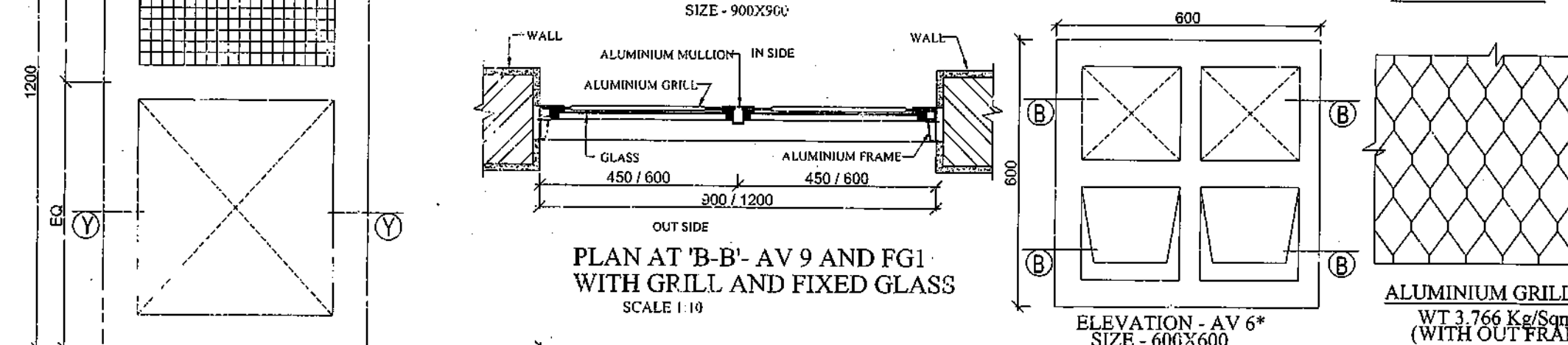
ELEVATION OF COOLER WINDOW - ALSCW 15 AF AND ALSCW 18 AF



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----

ELEVATION

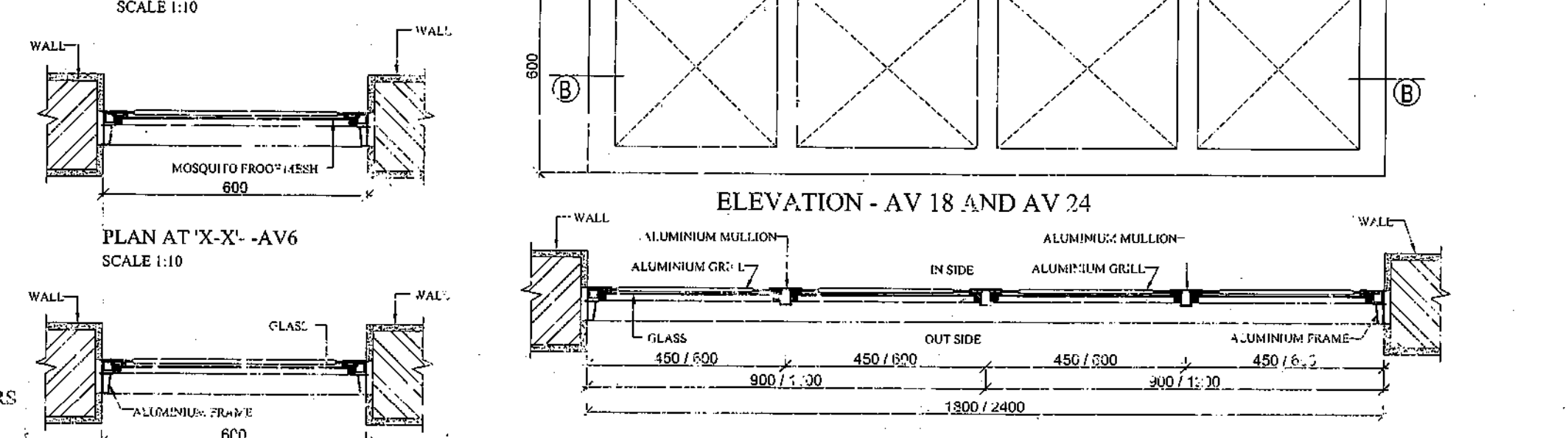
SECTION AT 1-1



ELEVATION - AV6

1. The first step is to identify the problem or question that needs to be addressed. This involves understanding the context and the specific requirements of the task.

1



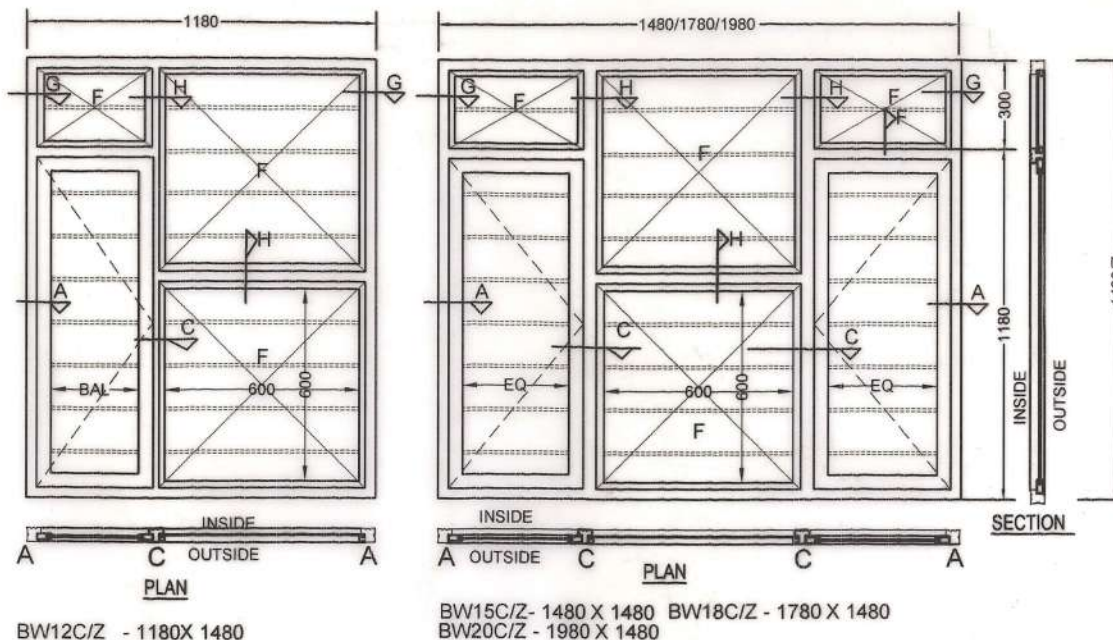
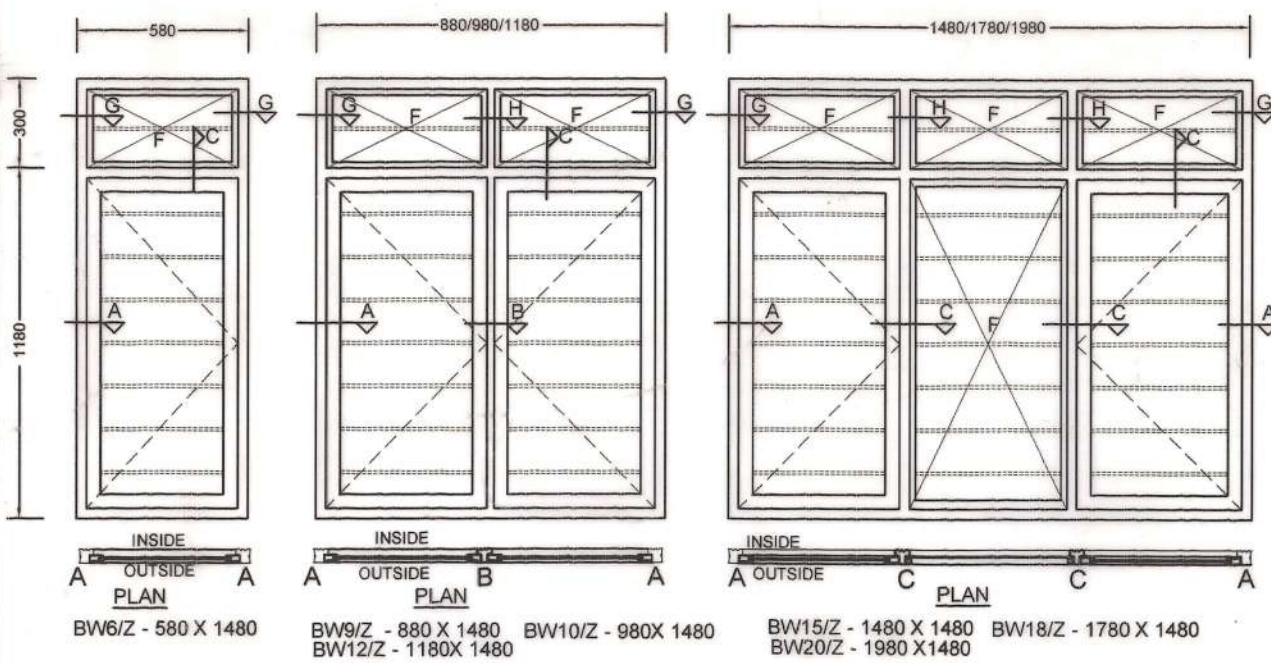
THE ASSOCIATED PRESS

PLAN AT F-E-AV 18 (1800X600) AND AV 24 (2400X600)
WITH BRILL AND FIXED GLASS
SCALE: 1:50

NOTES	
1.	CONTRACTOR TO CHECK & VERIFY ALL DIMENSIONS BEFORE EXECUTION OF THE WORK.
2.	FIGURED DIMENSIONS SHALL BE FOLLOWED.
3.	ALL DIMENSIONS ARE IN MILLIMETERS, UNLESS OTHERWISE STATED.
4.	ALL EXTERNAL WINDOWS EXCEPT TOILETS SHALL BE PROVIDED WITH ALUMINIUM GRILL AS DECIDED BY DIR (ARCH) OF THIS HQ.
5.	ALL ALUMINIUM SECTIONS SHALL BE OF PRE POWDER COATED (IN GUN METAL COLOUR) HEAVY WEIGHT OF JINDAL MAKE ONLY.
6.	6 mm THICK TONGUED REFLECTIVE GLASS OF MAKE SANTI GOBAIN SGG ANTELIO PLUS : SPARKLING ICE ST - 167 SHALL BE PROVIDED.
7.	THE ALUMINIUM HANDLE, SOFT PVC GASKET, SOFT RUBBER BLIND / SOLID REVEYS, NICKEL PLATED METAL SCREW, ALU HINGLE, ALU HANDLES, ALU PEG STAY, PVC HATCHER, STRIP ETC SHALL BE PROVIDED TO ALL OPENABLE SHUTTERS AS PER MANUFACTURERS INSTRUCTIONS.
8.	FROSTED GLASS SHALL BE PROVIDED TO WINDOWS /VENTS OF TOILET, BATH WC ON ALL FLOORS.
9.	ALL ALUMINIUM SECTIONS OF WINDOWS SHALL BE AS PER AA 6063T6 CONFIRMING TO 63400 WP OF IS 733.
10.	ALL AC ROOM SHALL BE PROVIDED WITH DOUBLE GLASS WINDOWS WITH RUBBER GASKET / LINING.
11.	STANDARD STAINLESS STEEL MOSQUITO NET SHALL BE PROVIDED FOR ALL MOSQUITO PROOF WINDOWS.
12.	NEAREST HIGHER SIZE OF ALUMINIUM SECTIONS SHALL BE USED IF GIVEN SIZES IN THIS DRAWING ARE NOT AVAILABLE IN MARKET.
13.	ENGINEER - IN - CHARGE SHALL CONFIRM SIZES, THICKNESS & WEIGHT OF VARIOUS SECTIONS USED IN ALUMINIUM WINDOWS BEFORE PLACING THEM ON LOCATION GIVEN IN DRAWING AND PAYMENT SHALL BE MADE TO CONTRACTOR ACCORDINGLY.
14.	SIZES OF WINDOWS, VENTS AND FIXED GLAZING ARE GIVEN IN THIS DRAWING IS INCLUDING OF 10 mm CLEARANCE ALL THE FOUR SIDES BEFORE PLACING THEM.

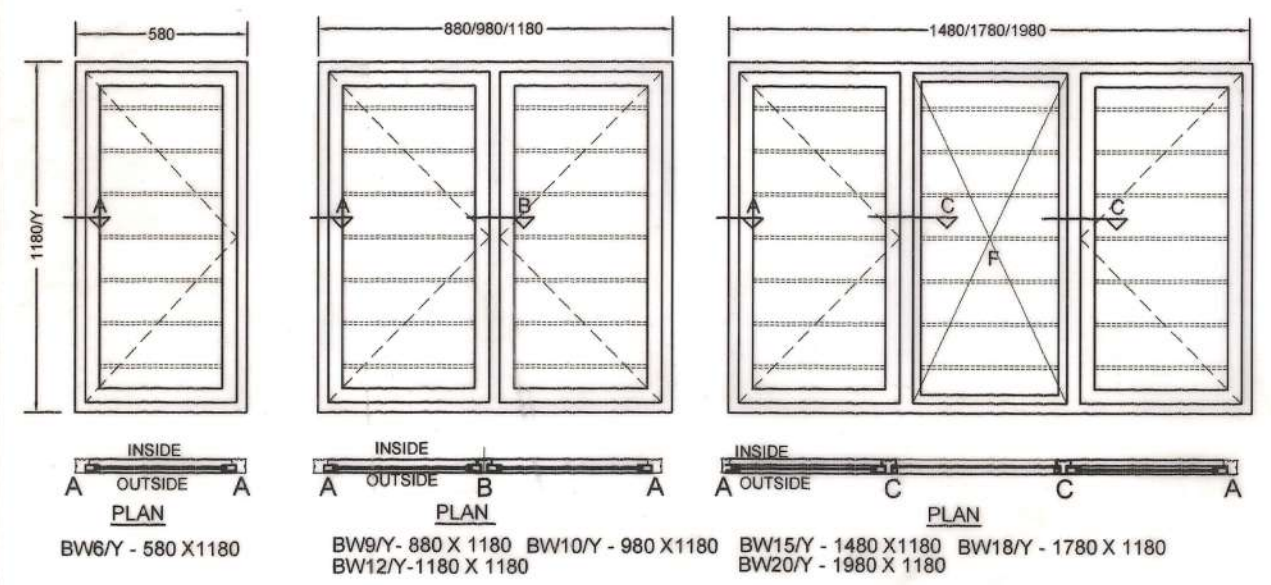
L-25

A24

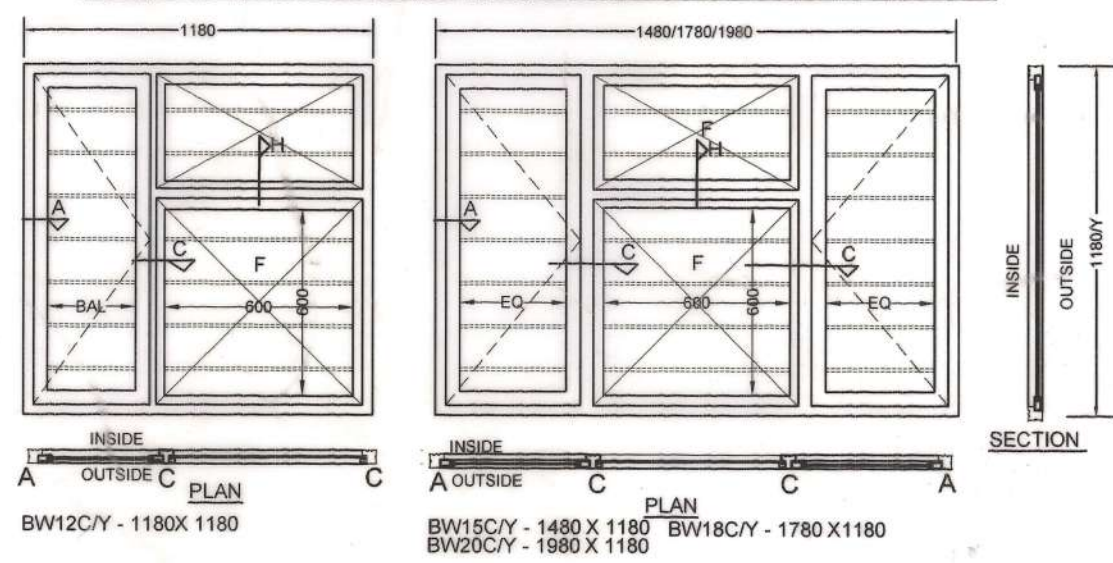


- NOTES**
- 1 ALL DIMENSIONS ARE GIVEN IN MM UNLESS OTHERWISE SHOWN IN DRAWING.
 - 2 FIGURED DIMENSIONS SHALL BE FOLLOWED.
 - 3 EXECUTIVE AUTHORITY SHALL CHECK & VERIFY THE DRAWINGS BEFORE TAKING EXECUTION IN HAND.
 - 4 CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS BEFORE EXECUTION OF THE WORK.
 - 5 VENTILATORS ARE OVER ALL HEIGHTS & WINDOWS & VENTILATORS IN TO MODULAR WIDTHS OF THE OUT SIDE OF FRAMES. THESE SIZES ARE DERIVED AFTER ALLOWING THE DIMENSIONS SHOWN FOR WINDOWS & OPENING. FOR THE PURPOSE OF FITTINGS OF 10mm CLEARANCE ON ALL THE FOUR SIDES
 - 6 - SIDE HUNG SHUTTER - HS, FIXED SHUTTER - HT GLASS / WIRE GAUGE - F, TOP HUNG %%ULEGEND
 - 7 ALL WINDOW FRAMES SHALL BE FIXED AT THE CENTRE OF WALL UNLESS OTHERWISE STATED.
 - 8 VENTS / WINDOWS IN TOILET / BATH / WC SHALL BE PROVIDED WITH FROSTED / GROUND GLASS AS SPECIFIED.

ELEVATIONS OF GLAZED WINDOWS WITH FANLIGHT

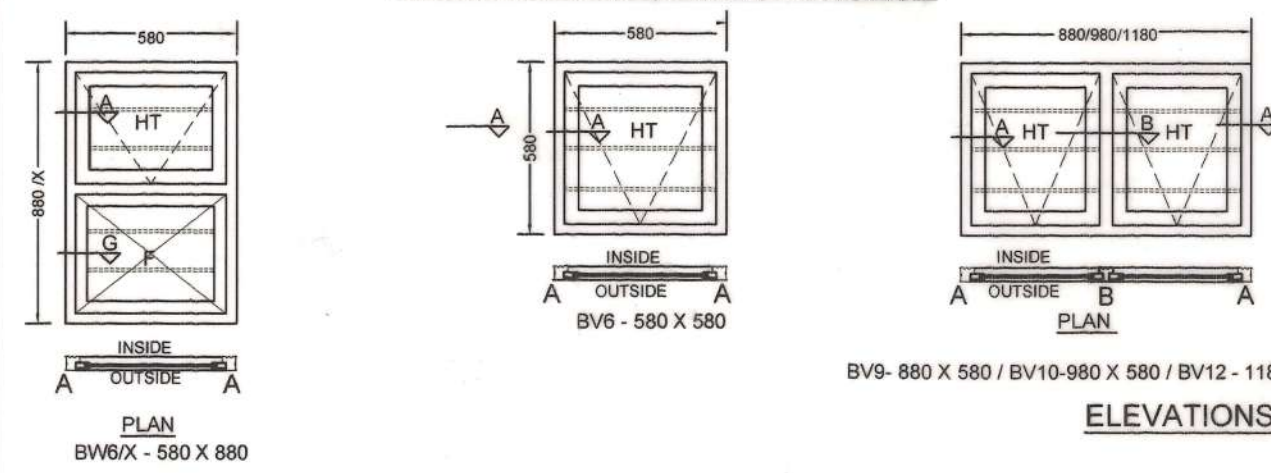


ELEVATIONS OF GLAZED COOLER WINDOWS WITH FANLIGHT

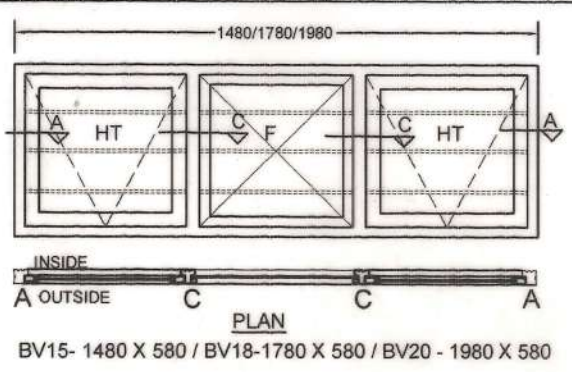


CONTDD.. SHT NO:2

ELEVATIONS OF GLAZED WINDOWS



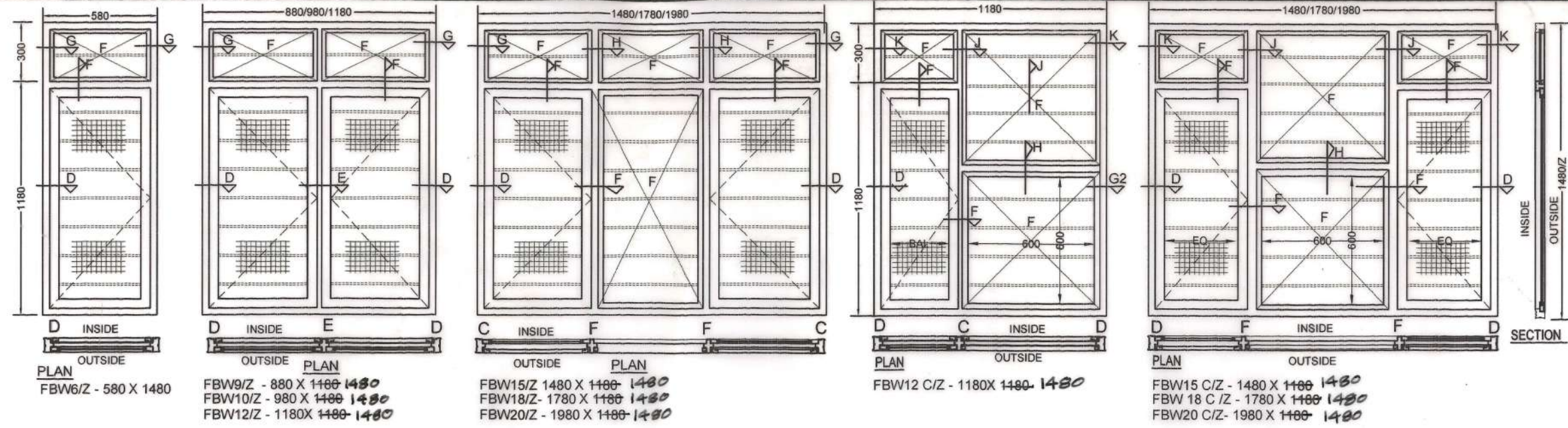
ELEVATIONS OF GLAZED COOLER WINDOWS



ELEVATIONS OF GLAZED VENTILATORS

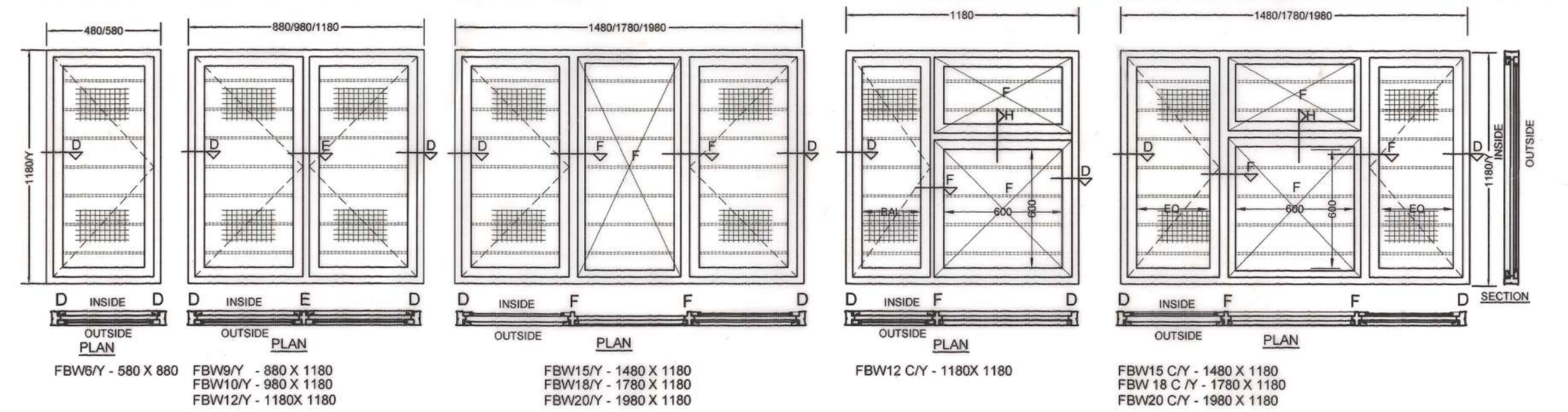
SL NO	DATE	DESCRIPTION	INITIAL
REVISIONS			
STEEL WINDOWS & VENTILATORS (BOX SECTION)			
ELEVATIONS AND DETAILS			
DATE	30 MAR 2013	CHIEF ENGINEER	SHEET NO
DRN	R Krishna	JAIPUR ZONE	1/3
TCD		JAIPUR	
CKD			
SCALE	-	DRG NO: TD/2013/01	
AAD (ARCH)		DIRECTOR (ARCH) FOR CHIEF ENGINEER	

A-25



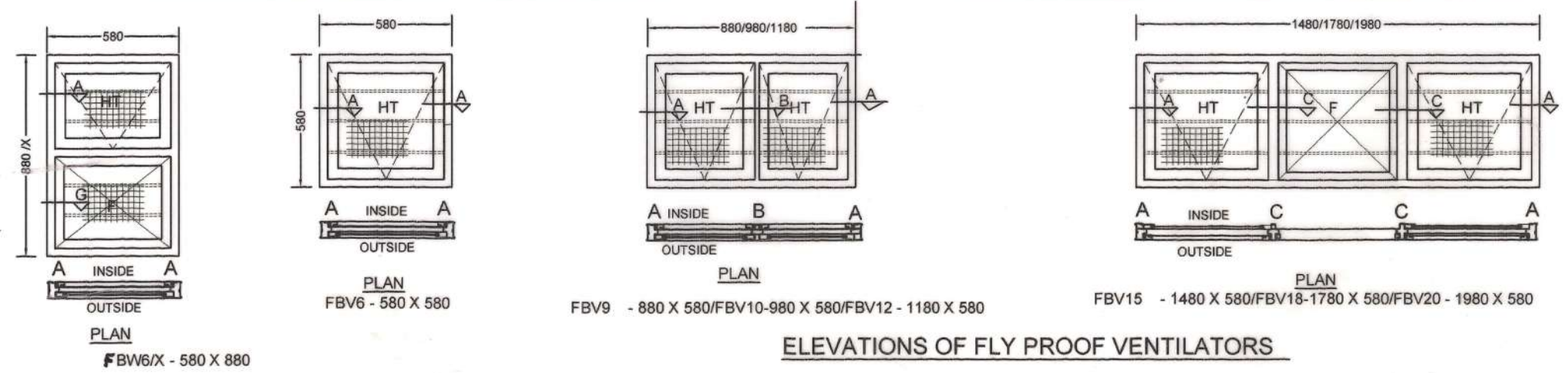
ELEVATIONS OF FLY PROOF WINDOWS WITH FANLIGHT

ELEVATIONS OF FLY PROOF COOLER WINDOWS WITH FANLIGHT



ELEVATIONS OF GLAZED WINDOWS WITH FLY PROOF

ELEVATIONS OF FLY PROOF COOLER WINDOWS



ELEVATIONS OF FLY PROOF VENTILATORS

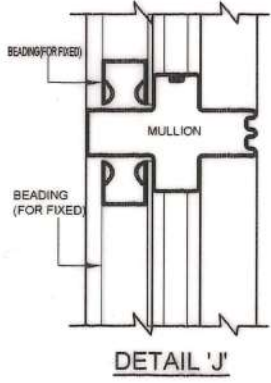
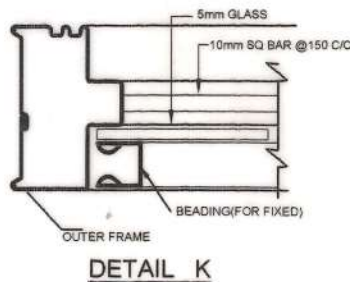
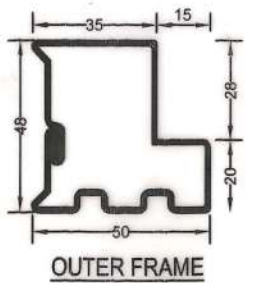
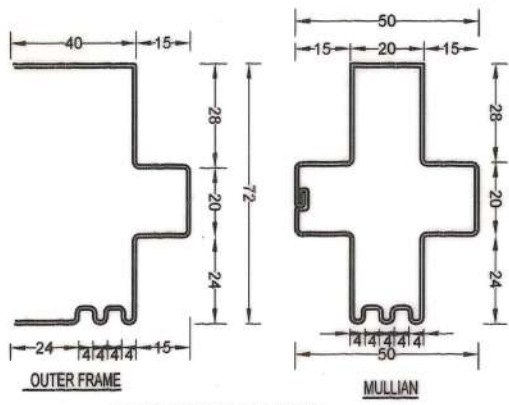
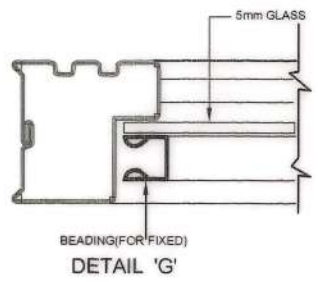
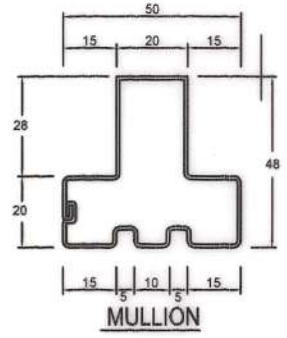
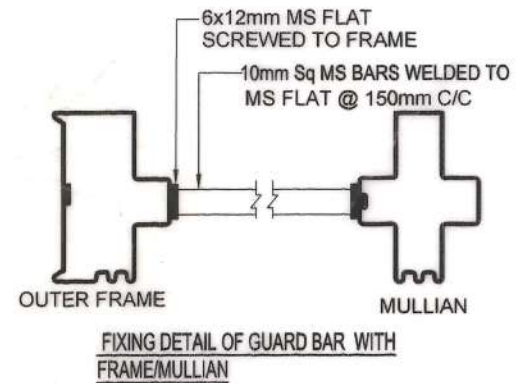
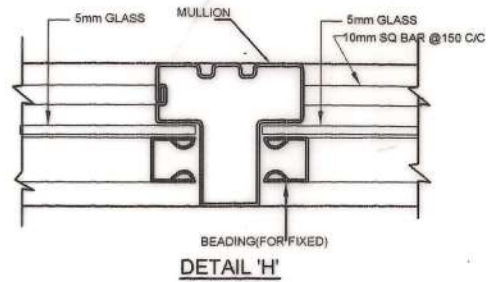
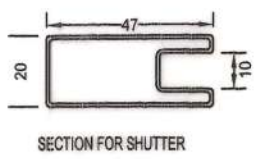
NOTES

- 9 ROLL FORMED SECTION MADE OF GALVANISED STEEL COLOUR COATED (BASE STEEL AS PER IS 513 "D" QUALITY, GALVANISED AS PER IS 277 WITH ZINC OF 1209 Gms/SqMtr) WITH TOTAL COATED THICKNESS OF 0.60mm
- 10 EACH GLAZED SHUTTER/MESH SHUTTER SHALL BE PROVIDED WITH SS PIVOT HINGES-1 SET, POLY PROPYLENE HANDLE-1, 75 mm ALU TOWER BOLT WITH RECEIVERS-2 NOS AND ALU POWDER COATED PEG STAY -1 NO FOR GLAZED SHUTTER ALONE.
- 11 GLAZED SHUTTER AND FIXED GLASS PORTION SHALL BE PROVIDED WITH GLASS OF 4mm THICK FLOAT GLASS.
- 12 FLY PROOF SHUTTER SHALL PROVIDED WITH STAINLESS STEEL 32 GAUGE FLY MESH OF 304 GRADE WITH 144 HOLES PER SQUARE INCH
- 13 WINDOWS SHALL BE PROVIDED WITH GRILL MADE OF 10mm SQ MS BARS WELDED TO 6mm x12mm MS FLAT @150mm C/C. TOTAL GRILL UNIT SHALL POWDER COATED AND FIXED TO WINDOW FRAME/MULLIAN WITH SCREWS.
- 14 WINDOW FRAME SHALL BE FIXED TO BRICKWORK/ RCC/PCC BY USING NYLON SELF EXPANDING CAPS AND DRIVING MS ELECTROPLATED 80mm LONG SCREWS IN TO THE CAPS THROUGH FRAME.
- 15 NOMENCLATURE OF WINDOWS BW-X/Y/Z, BWC-X/Y/Z, FBW-XYZ OR FBWC-XYZ AS THE CASE MAY BE XYZ DENOTS HEIGHT OF WINDOWS 880/ 1180 /1480 RESPECTIVELY FOR EXAMPLE WINDOW BW-6 X , BW-6 Y AND BW-6 Z DENOTES WINDOW SIZE 580 X 880, 580 X 1180 AND 580 X 1480.

CONTD -- 3/3

L. 30/11/13 SIZES OF WINDOWS WITH FANLIGHT CORRECTED			
SL NO	DATE	DESCRIPTION	INITIAL
REVISIONS			
STEEL WINDOWS & VENTILATORS(BOX SECTION)			
ELEVATIONS			
DATE	30 MAR 2013	CHIEF ENGINEER	SHEET NO
DRN	R Krishna	JAIPUR ZONE	2/3
TCD		JAIPUR	
CKD			
SCALE	-	DRG NO: TD/2013/01	
AAD (ARCH)		DIRECTOR (ARCH) FOR CHIEF ENGINEER	

16. EXPOSED SURFACES OF GALVANISED STEEL SURFACE SHALL BE POWDER COATED AS UNDER:
"COATED SECTION SHALL BE PRIMED WITH A COAT OF EPOXY PRIMER OF 5-7 MICRON THICK, FINISH PAINTED WITH POLYESTER PAINT OF 12-16 MICRONS THICK AND BACK COATED WITH ALKYD BACKER OF 5-7 MICRONS, OR POWDER COATED WITH PURE POLYESTER POWDER UPTO 50-60 MICRON THICK



SECTION PROFILE FOR GLAZED WINDOW

SECTION PROFILE FOR FLY PROOF WINDOW

1.	16/6/14	NOTE NO. 15 ADDED	Final
SL NO	DATE	DESCRIPTION	INITIAL
REVISIONS			
STEEL WINDOWS & VENTILATORS (BOX SECTION)			
ELEVATIONS AND DETAILS			
DATE	30 MAR 2013	CHIEF ENGINEER	SHEET NO
DRN	RAMA	JAIPUR ZONE	3/3
TCD		JAIPUR	
CKD			
SCALE	-	DRG NO: TD/2013/01	
AAD (ARCH)		DIRECTOR (ARCH) FOR CHIEF ENGINEER	

NOTES :-

1. All dimensions are in millimeters unless otherwise specified. Figured dimensions shall be followed and shall not be scaled. Contractor & executives shall mark actual layout of items including superstructure & external services before commencement. The layout of building shall conform to para 6 & 8 of STEC -3 for ammunition projects.
2. Adequate drainage arrangement around structures shall be provided so as to avoid any temporary water stagnation around the structures due to overflow from roof water tanks, leakage from water lines, sewage lines, soak pits and rain water etc.
3. The structural design and drawings have been prepared based upon the dimensions and details marked in these drawings. In case of any variation with reference to architectural drawing, the details given in structural drgs shall be final and binding except in Note No 4 below and the same shall be referred to design section for revision of structural drawings/arch drgs.
4. For payment purposes, dimensions of all spaces, details of walls, finishes and members other than structural members shall be as per architectural drawings, even if marked differently in structural drawings.
5. The layout and details of various structural members viz slab, column, beams & foundations etc shall be strictly as per structural drgs even if not marked accordingly in / discrepancy with architectural drgs. All drgs listed in "Reference to TD Drawings" are applicable with all typical details marked therein and shall be read & executed in conjunction with structural plans.
6. Approved water for construction shall conform to para 5.4 of IS: 456-2000 and shall be unchlorinated. Bore well water shall, however, not be used without testing & approval.
7. Cement shall be ISI marked 43 grade fresh OPC as per IS-8112 procured directly from approved factory & shall be transported and stored as per guidelines in part VII of NBC 2016 Reinforcement steel TMT bars Fe-500D grade of IS 1786 with minimum elongation of 18 % shall be procured directly from approved factory of main producers only. Bars rolled out of iron scraps shall not be used in this work. The steel shall be transported, stored, fabricated & assembled as per guidelines given in section 13 of SP 34 & part VII of NBC
8. Cement, reinforcement steel, structural steel, aggregate and water shall be adequately tested, from NABL accredited approved labs/Govt Engg Colleges, as per relevant IS code and monitored for their successful meeting the various requirements laid down in various IS Codes before incorporation in the work. The test results shall be entered in testing register with location / element where above material has been passed for use.
9. RCC shall be M-25 design mix concrete for moderate exposure, except water retaining structure, as per NBC :2016 with crushed, well graded & angular stone aggregates with nominal maximum aggregate size as 20mm & natural sand of Zone III/II as per IS-383 free from impurities. For RCC work minimum cement content shall be as per table No. 4 & 5 of IS 456-2000 with maximum water cement ratio not exceeding 0.45 & slump of 50-75 mm & compaction factor 0.85 to 0.92. super plasticizer of reputed make shall be used as per instruction if required
10. Acceptance criteria, quality assurance measures & NDT (Non Destructive Testing) as laid down in above codes shall be strictly followed and payment shall be released on successfully meeting the requirements of BIS codes & CA. Hand mixing of concrete shall not be permitted. The aggregates shall be stored as per guidelines in part VII of NBC 2016 Concrete mix manufactured at RMC plant shall be preferred in lieu of insitu mix.
11. Clear cover to main reinforcement steel bars shall be as under & shall be uniformly provided for a member unless otherwise mentioned in drgs:-
(a) Columns : 40mm + dia of stirrups
(b) Beams & SLABS : 30mm + dia of stirrups
(c) Footing : 50mm (for bars along shorter side)
12. Lap / splices shall generally not be provided until the same is unavoidable on technical ground. The lap shall be near to the point of contraflexure and shall not be provided near the point of maximum stress. Lapping of bars shall be staggered and kinked at lap to avoid offset in their alignment. The laps shall be reflected on the bar bending schedule. The bars shall be curtailed, if not required, after point of contraflexure with development length. The ends of bars at laps / splices / curtailed ends / normal ends / stirrups / links ends etc shall invariably be bent and provided with 45° hook.
13. Development length (Ld) for reinforcement bar shall be as per Sh.No 4/4 for zone III & above. Minimum lap length shall be 45 times the bar dia. No reinforcement bars, anywhere, shall be cut abruptly but shall be provided with development length (Ld) before termination. In slab, the bars along the longer side shall be placed above the bars in shorter direction. Chairs made out reinforced steel bars of appropriate dia and shape as specified in SP 34 shall be provided to support the layers of reinforcement. Chairs shall rest on reinforcing bars / cover blocks.
14. The cover block shall be with M30 concrete with 12.5 mm size aggregate. PVC cover blocks may also be used for rectangular / square columns 'L' shape cover blocks may be provided at corners.
15. All footings shall be placed centrally with reference to connected column in case of individual columns. For all foundations rectangular pedestal of 300 depth at a distance of 50 mm away from the column face around shall be provided at the junction of column & footing, even if not marked in detailed drgs. For combined footing the rectangular pedestal shall be at 50 mm away from the combined column faces of both columns.
16. All columns are from foundation to roof level with orientation as marked in these drgs. The soffit of roof beam shall be laid parallel to the top of beam/roof slab so that depth of beam remain same throughout the span.
17. If any detailing of reinforcement is not shown in these drgs. or TD's the provisions given in BIS hand book for detailing of reinforcement (SP-34) shall be followed. The bar bending schedule as per section 5 of SP : 34-1987 shall be prepared duly technically checked and approved by GE before commencement of RCC work. The stage passing of reinforcement at site shall be strictly checked & passed by the GE with ref to above bar bending schedule. 16.
18. Top of all plinth beams shall be 50 mm or thickness of floor topping (whichever more) below finished floor level except wherever shown otherwise in structural drgs. Walls shall be provided below external plinth beams as per details given in Typical cross sections through external plinth - showing level of PB and provision of wall below as per same Drg No. CEJZ / 2015/TD/S-1 SHEET NO S-3/4 R
19. Piece lintels, ie. beams of length lesser than column to column space have not been marked in these drgs. Wherever opening is flushed with column, piece lintel reinforcement as per Sh No 2/4 of this drgs shall be followed & shall be anchored inside the column before casting. For all other cases bearing shall be equal to depth of piece lintel.
20. New form work true to the shape shall only be used. The form work for concrete structures shall strictly meet the guidelines given in IS: 14687-1999. Timber form work shall not be used for this project.
21. Roof projections, chhajjas, fins, fascia, plinth protection etc have not been marked on these drgs and shall be provided as per architectural drgs with structural details as per TD if not marked in these drgs. At every corner of slab projection / opening in slab, additional reinforcement of 5 Nos 10# shall be provided at top for Min. 1/3 length of projection.
22. During summer months, when air temperature is above 40° C or a combination with relative humidity below 25 % & temperature above 35° C with wind velocity higher than 10kmph, constitutes the conditions necessitating precautions given IS 7861 (Pt-I) 1975 & IRC 61-1976 & shall be strictly adhered to. In addition the concrete surface shall be covered with polythene or tarpaulin sheets (refer para 8.2.3 of IS 3370 pt-I 2009).
23. During winter months, when air temperature is 5° C or less constitutes the conditions necessitating precautions given IS :7861 (Pt-II) 1975 & IRC 91-1985 shall be strictly adhered to.
24. The crumple/movement joints shall be provided in terms of para 3.11 and table 5A of SP 25 of Bureau of Indian Standards and as specified in TD drg No CEJZ/2004/TD/S-14 sheet No 1/4 to 4/4.
25. Water tank for toilets shall be placed on roof at the beam column junctions as marked in structural roof plan & of capacity as marked in structural drgs. BLANK
26. Minimum compressive strength of brick shall be 75kg per sq cm. The brick work shall be carried out after completion of RCC frame work. The layout of brick work at locations other than structural wk has not been marked in these drgs & shall be as per architectural drgs. The half brick walls at locations other than beams shall rest on dwarf wall.
27. Conduits for electrical work shall not be clubbed at any particular location in RCC work but shall be segregated to avoid weak location. Dummies for pipes crossing structural beams shall be placed during casting of the member and no cutting of beams at a later date shall be permitted.
28. Lean concrete mix minimum 100 mm th shall be as per contract specifications. Wherever any horizontal RCC member except PBs is in direct contact with earth, a lean concrete layer of 100 thk shall be provided below with 100 mm g/F35/F20 both side.
29. Safety measures as described in various BIS Codes and part VII of NBC 2016 shall be strictly adhered to and no violation shall be permitted.
30. In slab and footing, the bars along the longer side shall be placed above the bars in shorter direction.
31. Foundation has been designed for safe bearing capacity as mentioned in the relevant drawing at depth mentioned therein below GL with depth of water table more than 4.0 m. Actual soil investigation shall be got carried out by the GE and Soil data shall be verified by site executives during execution and reported in case of variation.
32. The buildings have been designed for EQ Zones with importance factors and imposed load as per IS 875 (Pt-II) 1987 on STAAD. pro v8i software. In structural design of this project, it has been assumed that execution of the work shall be carried out under the direction and supervision of qualified and experienced site engineers as detailed in para 25 of IAFW-2249.
33. The earth used for construction of traverse shall be reasonably cohesive. Solid, wet clay which are too cohesive, shall be avoided. Rubble from demolished structures, stones larger than 75mm dia, excessive amount of trash and deleterious matter and expensive soil shall not be used. Weepholes with suitable pervious material backup shall be provided adequately for proper drainage of backfill. Compaction and surface compaction shall be provided to maintain structural integrity and avoid erosion. The entire construction shall conform to para 59 of STEC 3.
34. These drawings shall not be used in any other project.
35. Contractor to check and verify all dimensions before execution of the work
36. The mix. (grade) of concrete for all RCC work shall be M-25 (Design Mix) except piles and pile caps/raft on piles or if mentioned in drgs.
37. The safe load carrying capacity of piles shall be ensured by load test on test pile. In case of variation the matter shall be brought to the notice of this HQ.
38. The portion of plinth beams in contact with soil, suitable sh.uttering as specified shall be used.
39. Non load bearing walls shall be constructed only after RCC frame structure is completed and the construction of wall shall be carried out as per relevant Indian standard.
40. In adjacent span having different type of beams. The higher of the two top extra reinforcements at top support shall be continued on either side.
41. Wherever, partition wall is provided without any beam underneath, CONCRETE beam shall be provided as shown in drg Sht No 2/4 of this drg.
42. Scaffolding and shuttering shall be made and erected in accordance to relevant IS provisions.
43. The provisions of ductile detailing of reinforced concrete structures as per IS 13920-2016 shall be adhered.
44. Wherever plinth beams are not given. The wall foundation (WF) shall be provided as per details given.
45. All pile caps shall be cast with their top at the same reduced level, if not specified.
46. Wherever there is a difference in spacing of column ties as shown in this drawing and that shown in TD, the lesser spacing shall be adopted.
47. Dimensions of footing indicated in foundation plan are exclusive of offset of lean conc.
48. Bars of beam terminating at any support in a span shall be taken into the adjoining span of that support for a distance equal to ld or l/3 (where 'l' is the adjoining span) whichever is more.
49. Width of crumple joint wherever not indicated shall be taken as 25 mm.
50. The slope for the roof shall be maintained in RCC slabs so that the thickness of roof treatment remains constant at all the points.
51. Location and capacity of water tanks shall be as per structural drawings irrespective of what is shown in arch drgs.
52. In case of variations in the details given in arch & structural drgs, the details given in structural drgs shall supersede.
53. Suitable details for crumple joint as per location shall be adopted as per IS : 3414 to obtain effective seal against penetration of water
54. The isolated footing is designed for SBC as mentioned therein at depth from GL. In no case the footing shall rest on treacherous, organic or filled up soil. Ground water table is considered well below foundation level in all seasons.
55. Corners of masonry walls shall be provided with 1 No 10 # corner bars (embedded in to fdn conc by Ld) if the corner does not have RCC column.
56. Flat iron pieces (25x3) 400 long each will be provided @ every fourth course at the junction of RCC column and wall, (embedded by 150MM in the Column) where masonry wall is jutting out beyond the face of outer column on outside face for arch. features.
57. When bars of different dia are to be specified lap length shall be calculated based on larger dia.
58. Spacer bars of 25# shall be provided @ 900 mm c/c wherever reinforcement is placed in two layers.
59. Laps closer to mid section in case bottom bars/closer to supports in case of top bars shall be avoided.
60. Wherever variation in height of masonry is less than one brick thickness, it shall be made good with PCC 1:2:4 type BO.
61. The depth of foundation shown in this drawing shall be considered from the natural ground level, where cutting is involved, the depth shall be from the firm GL after cutting.
62. Columns shown in fdn plan shall be continued up to the top of the structure (in that portion) with the same design, if nothing else has been specified.
63. To keep the top face reinf. of slab in place, chairs made out of 1000 long pieces of 10 # bars shall be provided @ 1 no per sqm. for the foundation reinf shall be 10# bars 1000 long each.
64. Corner reinforcement will be provided in slabs as per TD.
65. Reinforcement bars of half brick walls and that of vertical band/ horizontal band will be extended in adjoining slabs/ beams/ columns/ walls as per TD.
66. Larger dia bar in column should be provided at corner not specified otherwise. (or indicated by symmetry)
67. Aggregate shall conform to all requirements of IS-383, 1970.
68. Extra care will be taken by contractor and executive to maintain the geometry of all the components utmost care is necessary to maintain verticality of members.
69. All roof projections shown in drawing but not marked will have same thickness as of adjacent slab and reinforcement of the adjacent slab to be extended on the projection, if not specified.
70. All beams projecting outside the outer face of R.C.C columns shown in drawings but not marked shall be of same in size and reinforcement as of the adjacent beam resting on the column, if not specified.
71. The top of all the plinth beams should be minimum -100 mm above the made up GL. BLANK
72. Wherever brick wall length increase by more than 4m provide vertical bands with minimum size of 230 x 250 or 115 x 250 with 4 - 10mm # longitudinal bars and 8mm stirrups at 150 c/c spacing.

REFERENCES TO TD DRAWINGS

S.No	DESCRIPTION	DRAWING NO.	SHT. NO.	REMARKS
1.	NOTES & REFERENCES TO DRGS	CEJZ/2015/TD/S-1	1/4(R)	
2.	TYPICAL DETAILS OF BEAM COL. JUNCTION & MISC DETAILS	CEJZ/2015/TD/S-1	2/4	
3.	DETAILS ON RCC STRUCTURE, RCC COL FOOTING AND OTHER DETAILS	CEJZ/2015/TD/S-1	3/4 (R)	
4.	TYPICAL DETAILS OF BEAMS, COL. & JOINTS.	CEJZ/2015/TD/S-1	4/4	

NOTES :-

- CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS BEFORE EXECUTION OF THE WORK.
- ALL DIMENSIONS ARE GIVEN IN MM UNLESS OTHERWISE MENTIONED IN DRAWING.
- FIGURED DIMENSIONS SHALL BE FOLLOWED.

2. 12.10.2015 CORRECTED UP TO DATE

1. 16.05.2016 CORRECTED UP TO DATE

SNO	DATE	DESCRIPTION	T.O.	INITIAL

REVISIONS

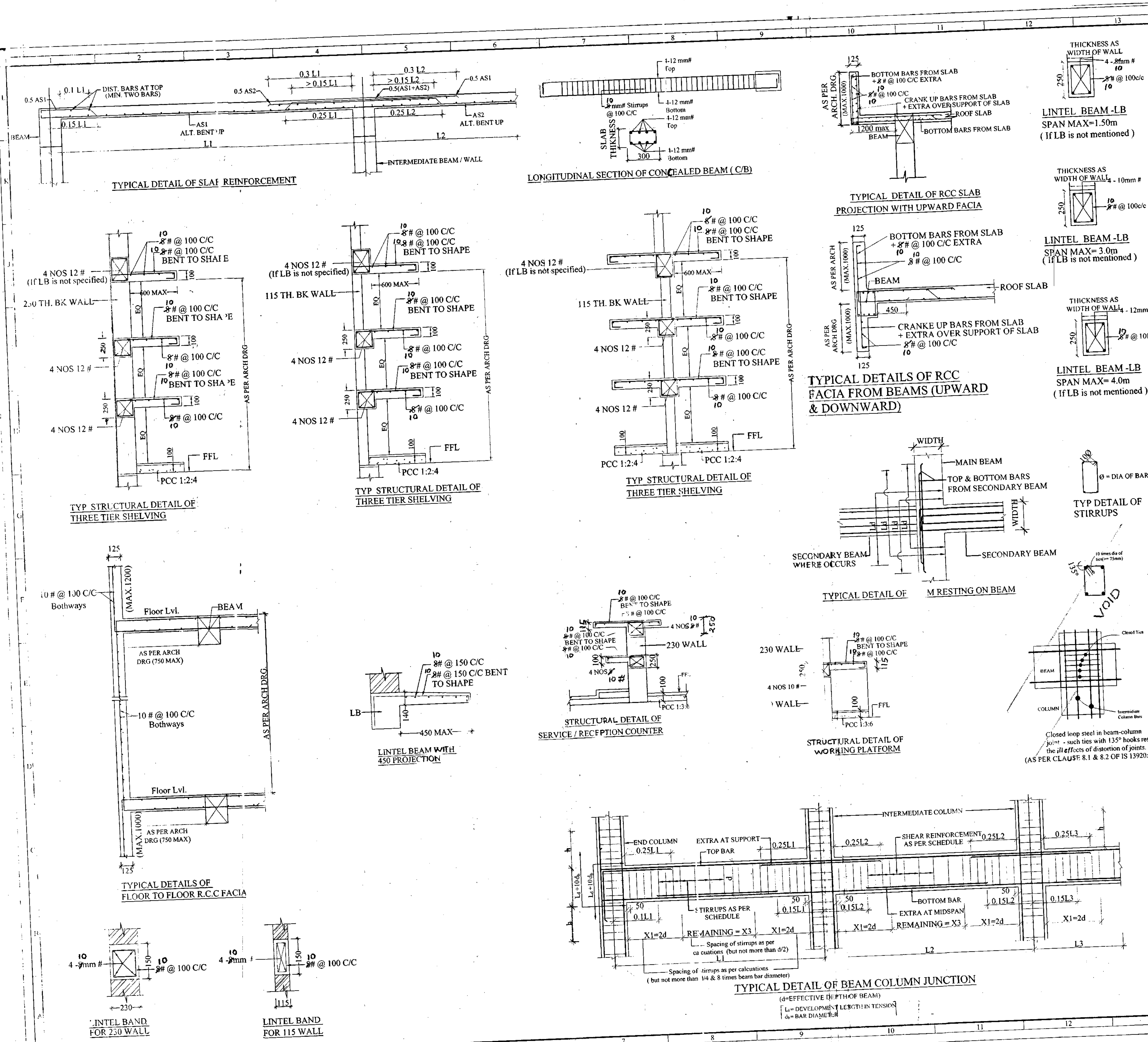
TYPICAL DETAILS AND NOTES FOR (OTHER THAN WATER STRUCTURAL DRGS RETAINING STRUCTURES)

NOTES & REFERENCES TO DRGS

DATE	07.10.2015	HQ CHIEF ENGINEER JAIPUR ZONE JAIPUR	SHEET NO.
DRAWN	GR Meena		1/4 (R)
TRACED			
CHECKED BY	A R Mahajan Tech Off		
SCALE	AS SHOWN	DRG. NO - CEJZ/2015/TD/S-1	

AR MAHAJAN
Tech Offr
AAD (Arch)

N. CHAKRABORTY
LT COL.
SO-1 (DESIGN)
FOR CHIEF ENGINEER



- NOTES :-**
1. CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS BEFORE EXECUTION OF THE WORK.
 2. ALL DIMENSIONS ARE GIVEN IN MM UNLESS OTHERWISE MENTIONED IN DRAWING.
 3. FIGURED DIMENSIONS SHALL BE FOLLOWED.

NO.	DATE	DESCRIPTION	INITIAL
1	12-12-2019	CORRECTED UP TO DATE	

REVISIONS

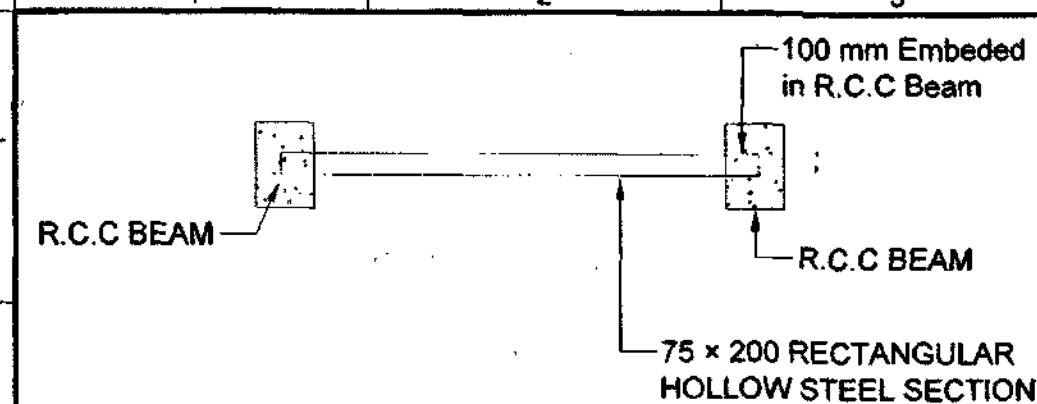
TYPICAL DETAILS AND NOTES FOR (OTHER THAN WATER STRUCTURAL DRGS RETAINING STRUCTURES)

TYPICAL DETAILS OF BEAM COL. JUNCTION & OTHERS DETAILS

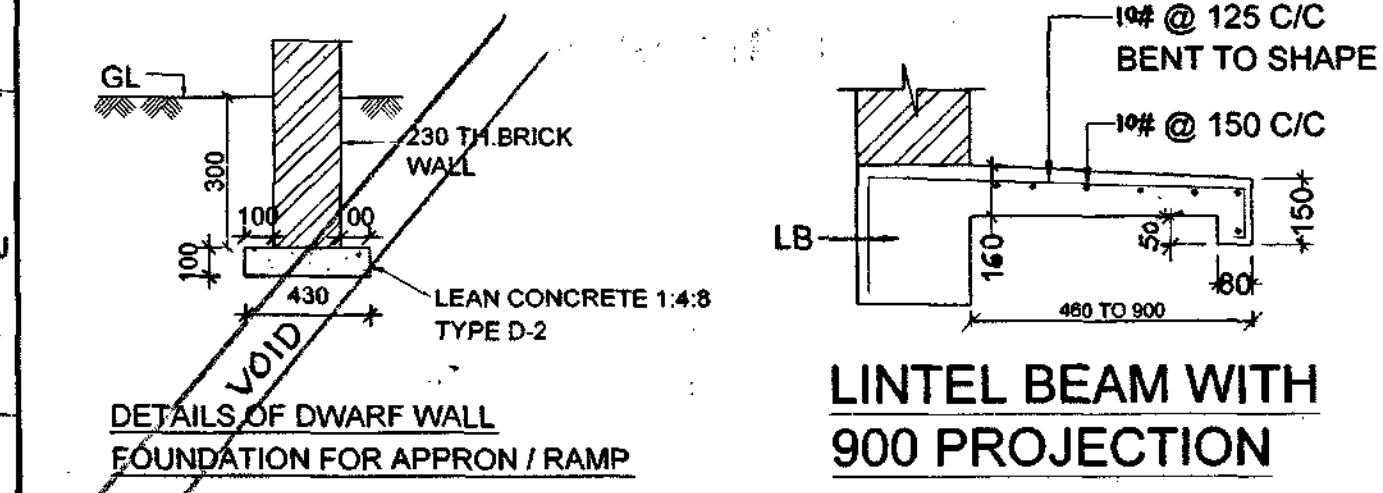
DATE	10.07.2015	HQ CHIEF ENGINEER JAIPUR ZONE JAIPUR	SHEET NO. 2/4
DRAWN	GR Menu		
TRACED			
CHECKED BY	A.R. Mahajan Tech Offr		
SCALE	AS SHOWN	DRG. NO - CEJZ/2015/TD/S-1	

AR MAHAJAN
Tech Offr
AAD (Arch)

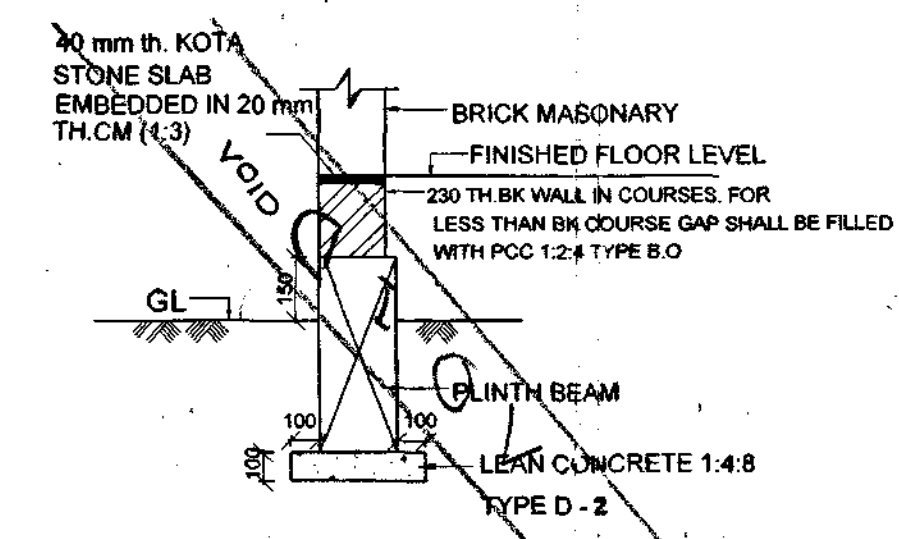
N. CHAKRABORTY
LT COL
SO - I (DESIGN)
FOR CHIEF ENGINEER



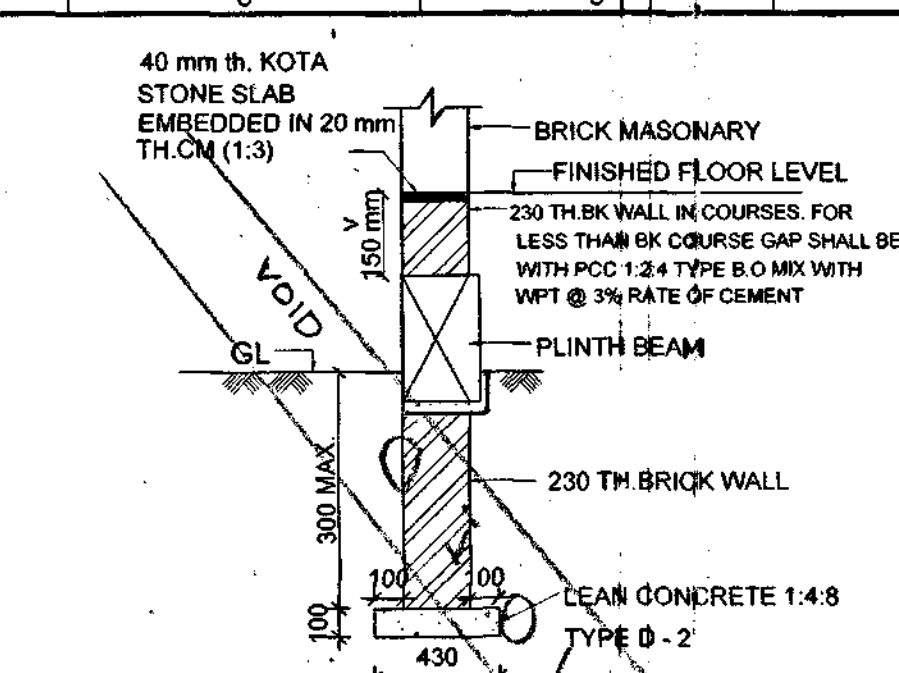
TYPICAL DETAIL OF PARGOLA BEAM



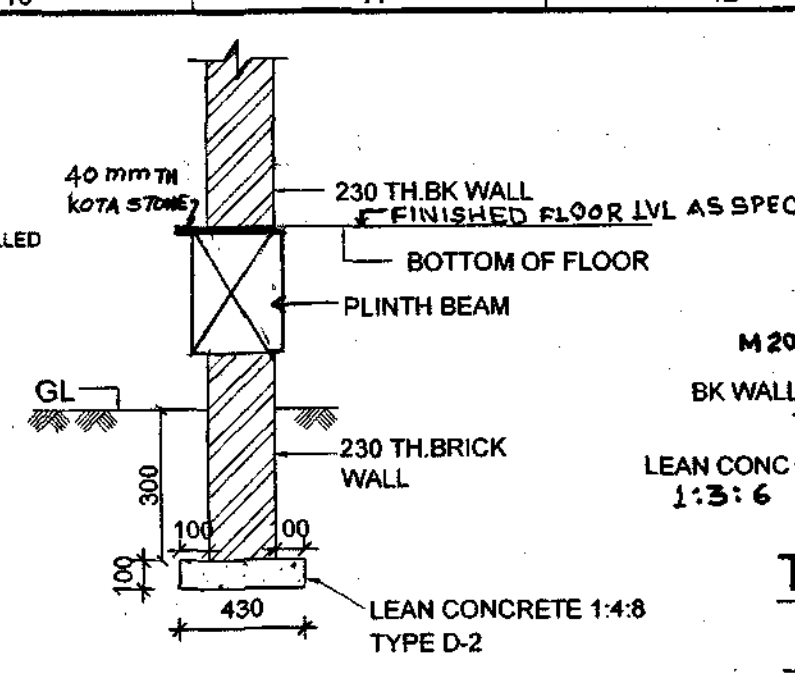
LINTEL BEAM WITH 900 PROJECTION



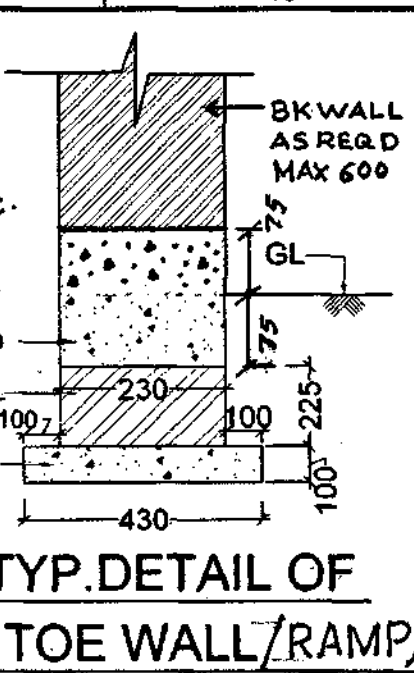
SECTION (CASE -III) (PB PARTLY ABOVE GL & PARTLY BELOW GL)



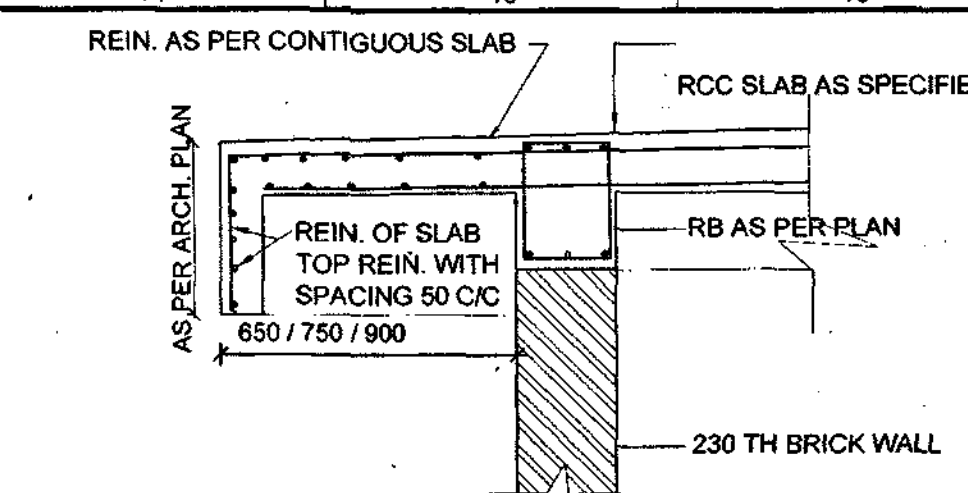
SECTION ALONG EXTERNAL WALLS (CASE -I) (PB PARTLY ABOVE GL & PARTLY BELOW GL) (EXTERNAL PERIMETRE WALL)



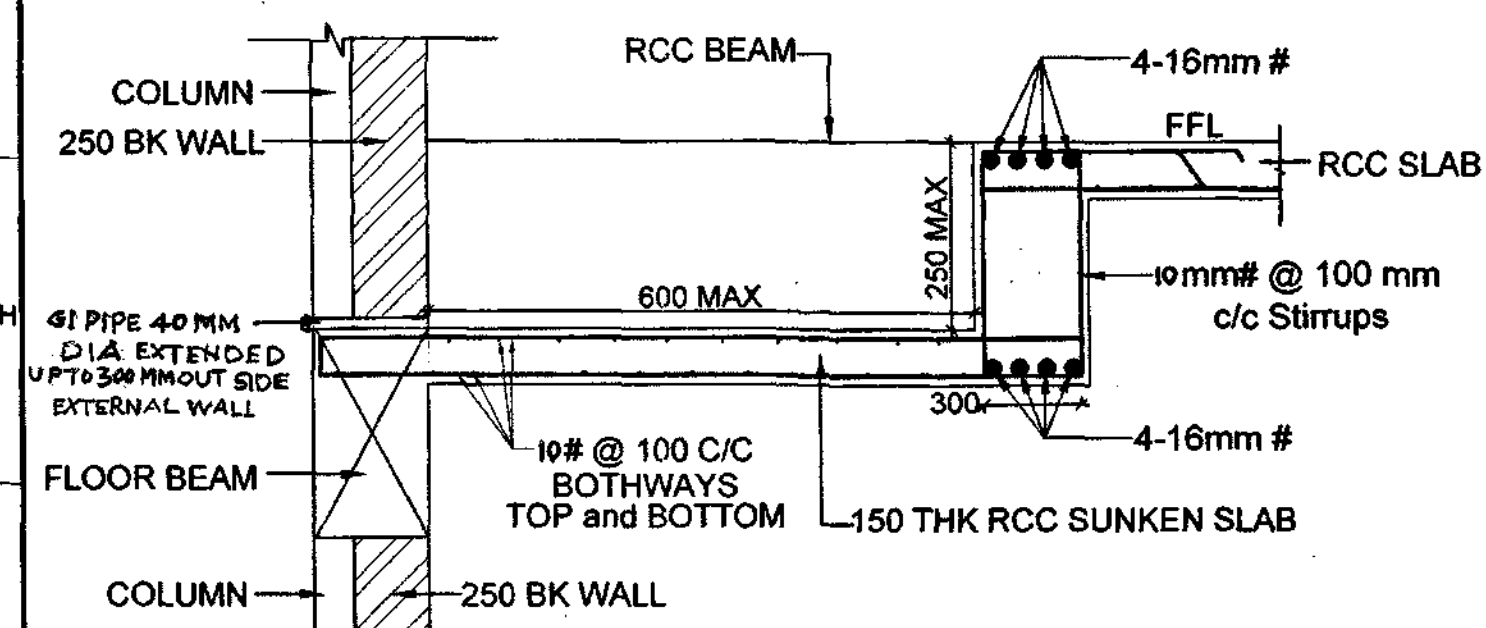
SECTION ALONG EXTERNAL WALLS (CASE -II) (PB FULLY ABOVE GL) (EXTERNAL PERIMETRE WALL)



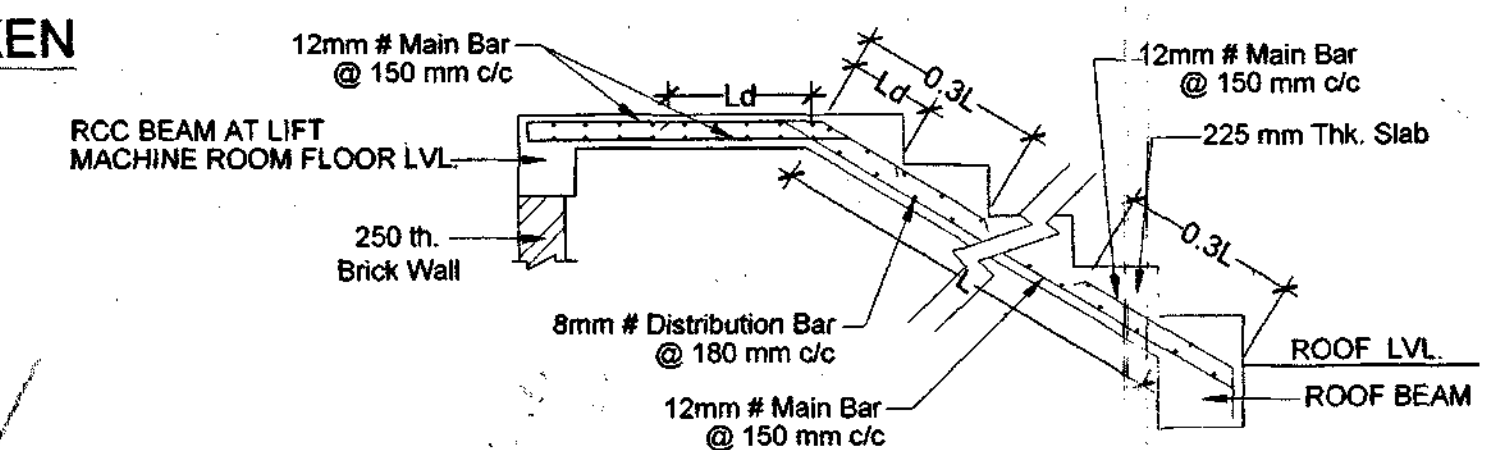
TYP. DETAIL OF TOE WALL/RAMP/ APRON



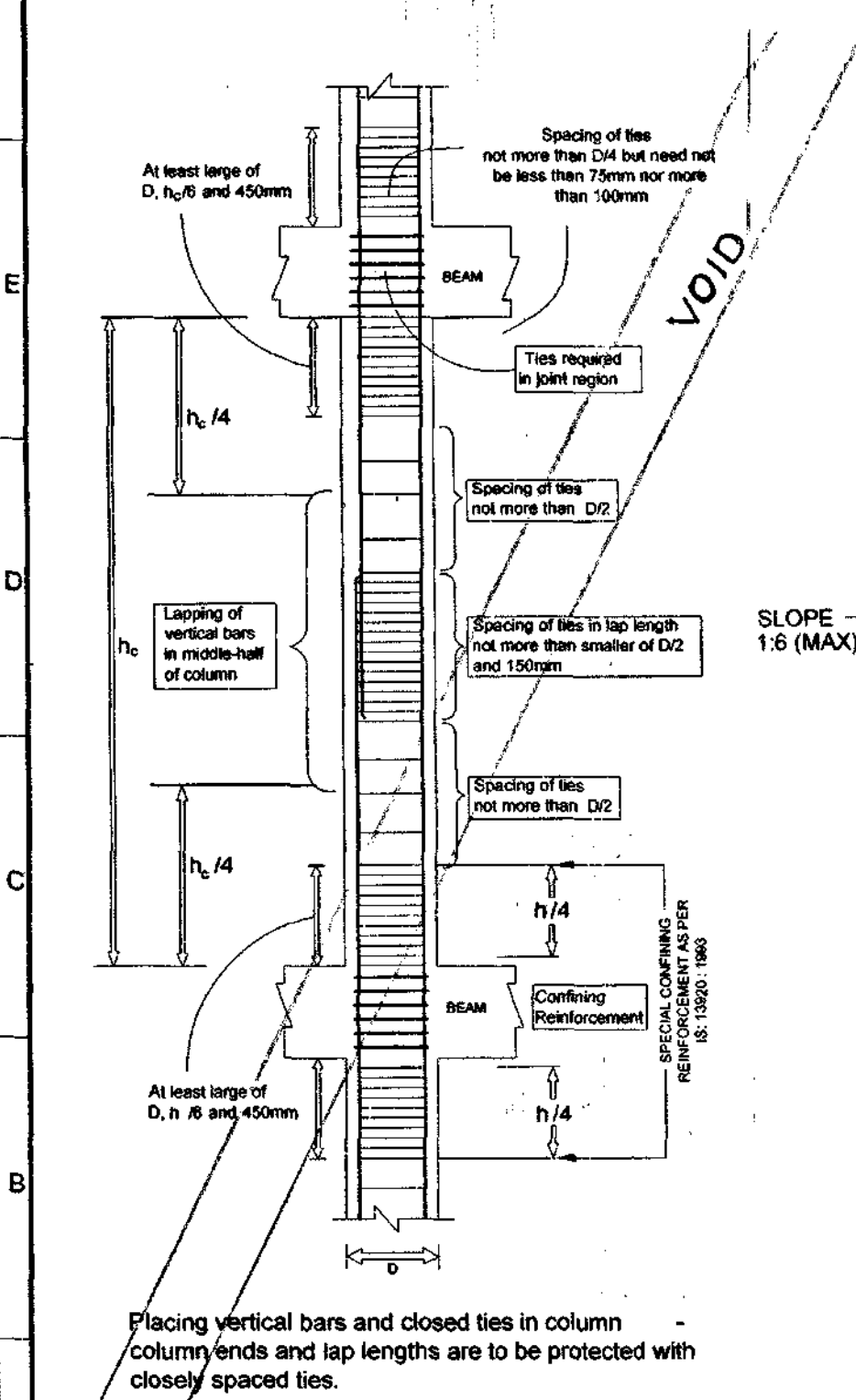
TYP. DETAIL OF ROOF PROJECTION



TYPICAL DETAIL OF TOILET SUNKEN SLAB (IF REQUIRED)

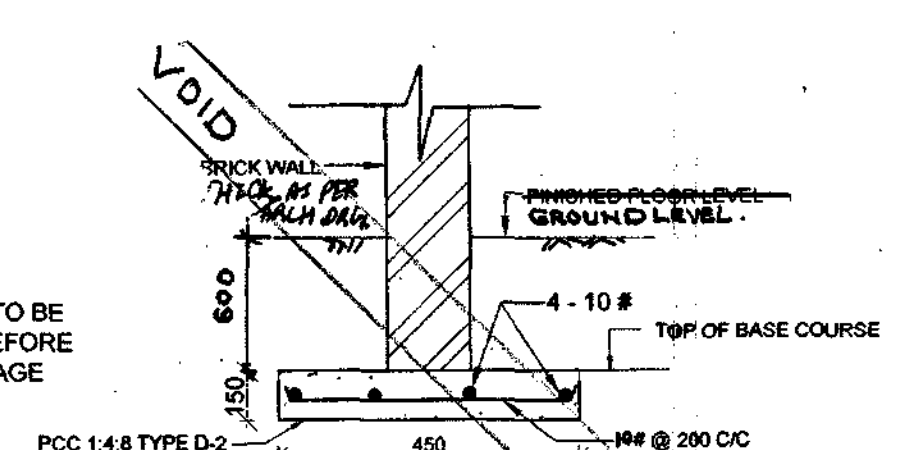


TYPICAL SECTION OF STAIRCASE FOR LIFT MACHINE ROOM

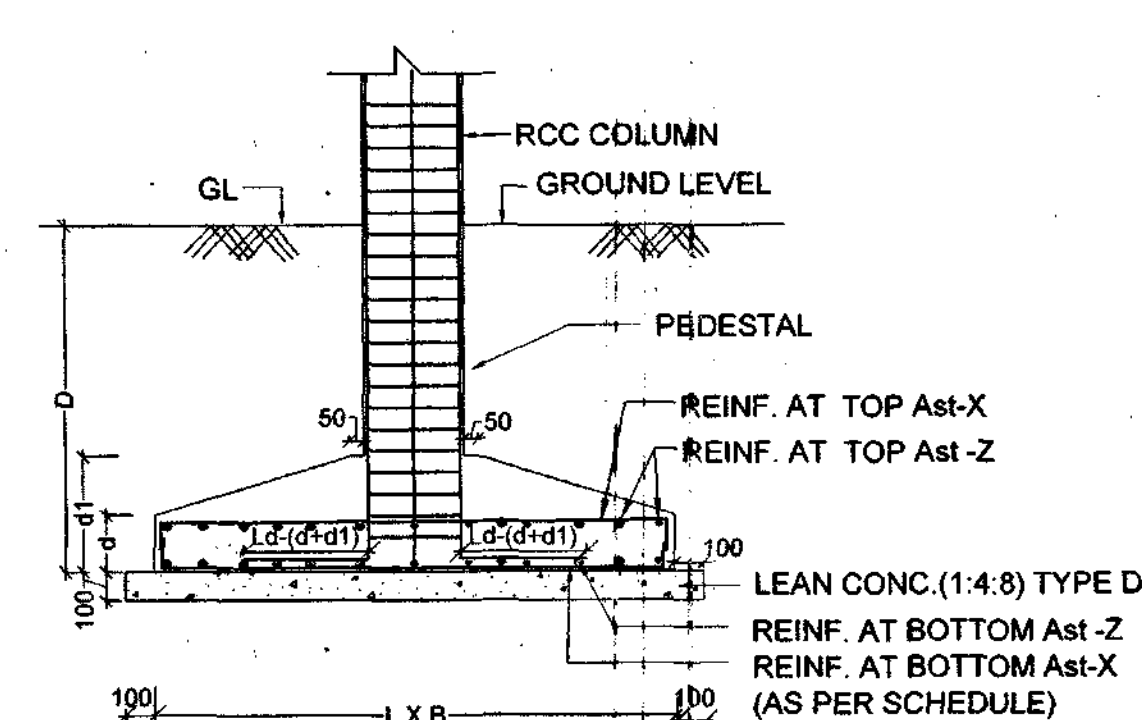


DETAILS OF WALL FOUNDATION (D/W) UPTO LINTEL LEVEL

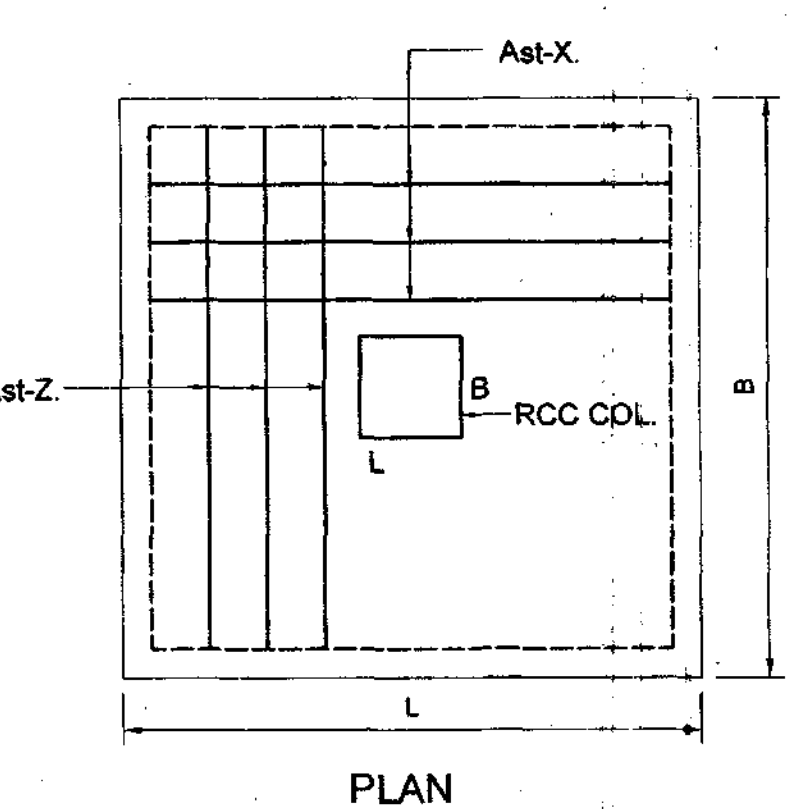
N.T.S.



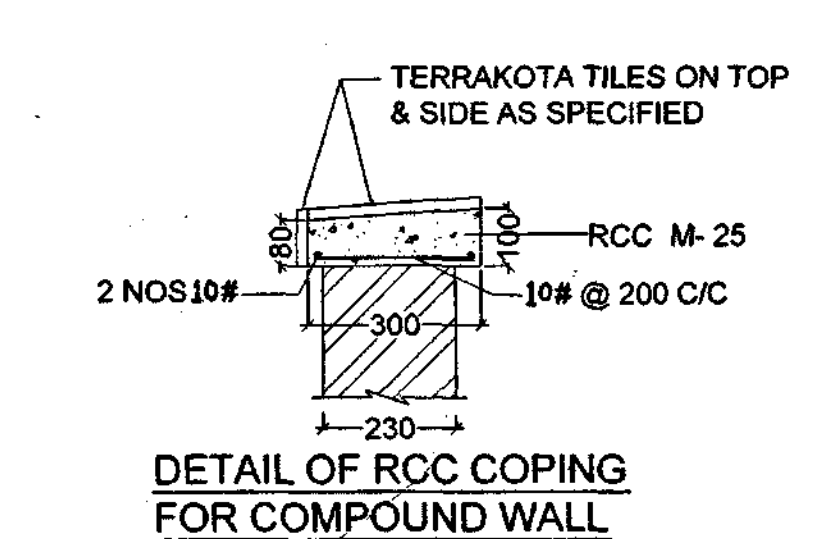
TYPICAL DETAIL OF RCC WALL OVER SLAB FOR STAGING OF WATER TANKS



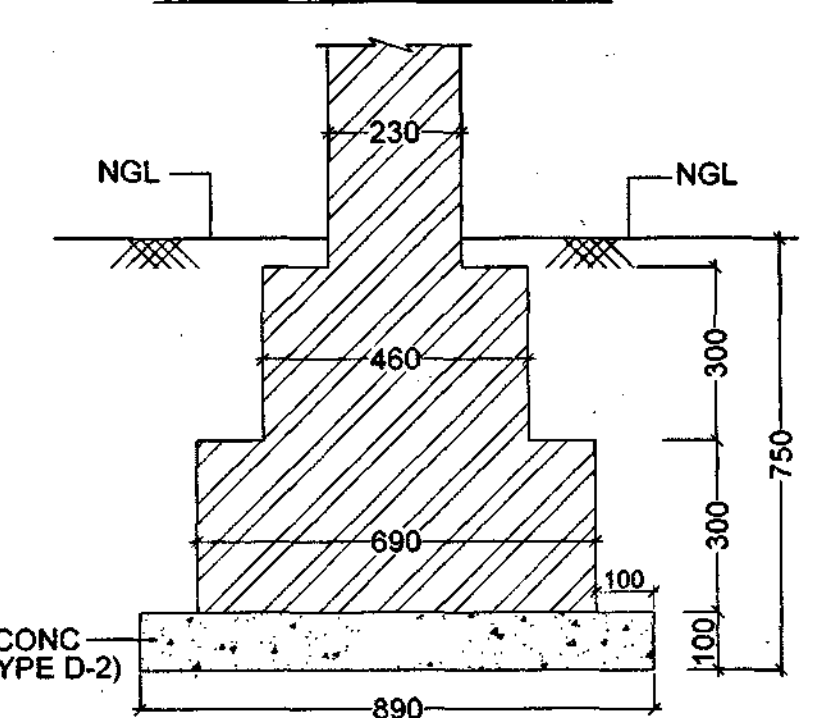
TYPICAL ISOLATED RCC COLUMN FOOTING



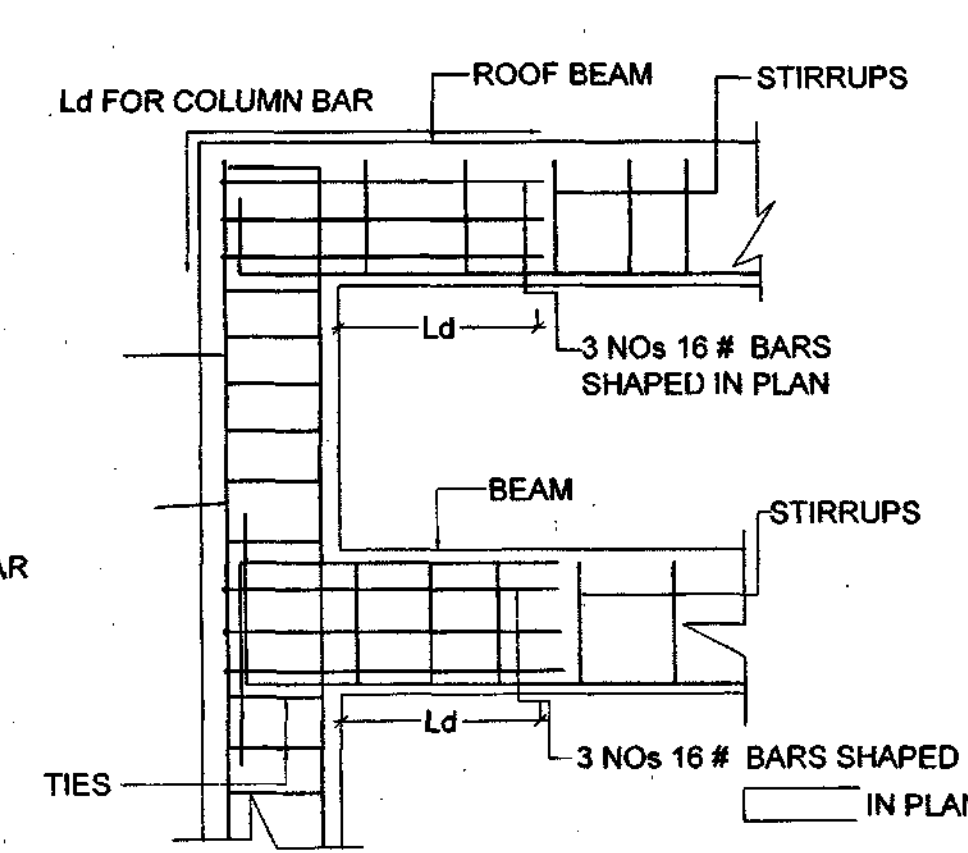
TYPICAL ISOLATED RCC COLUMN FOOTING



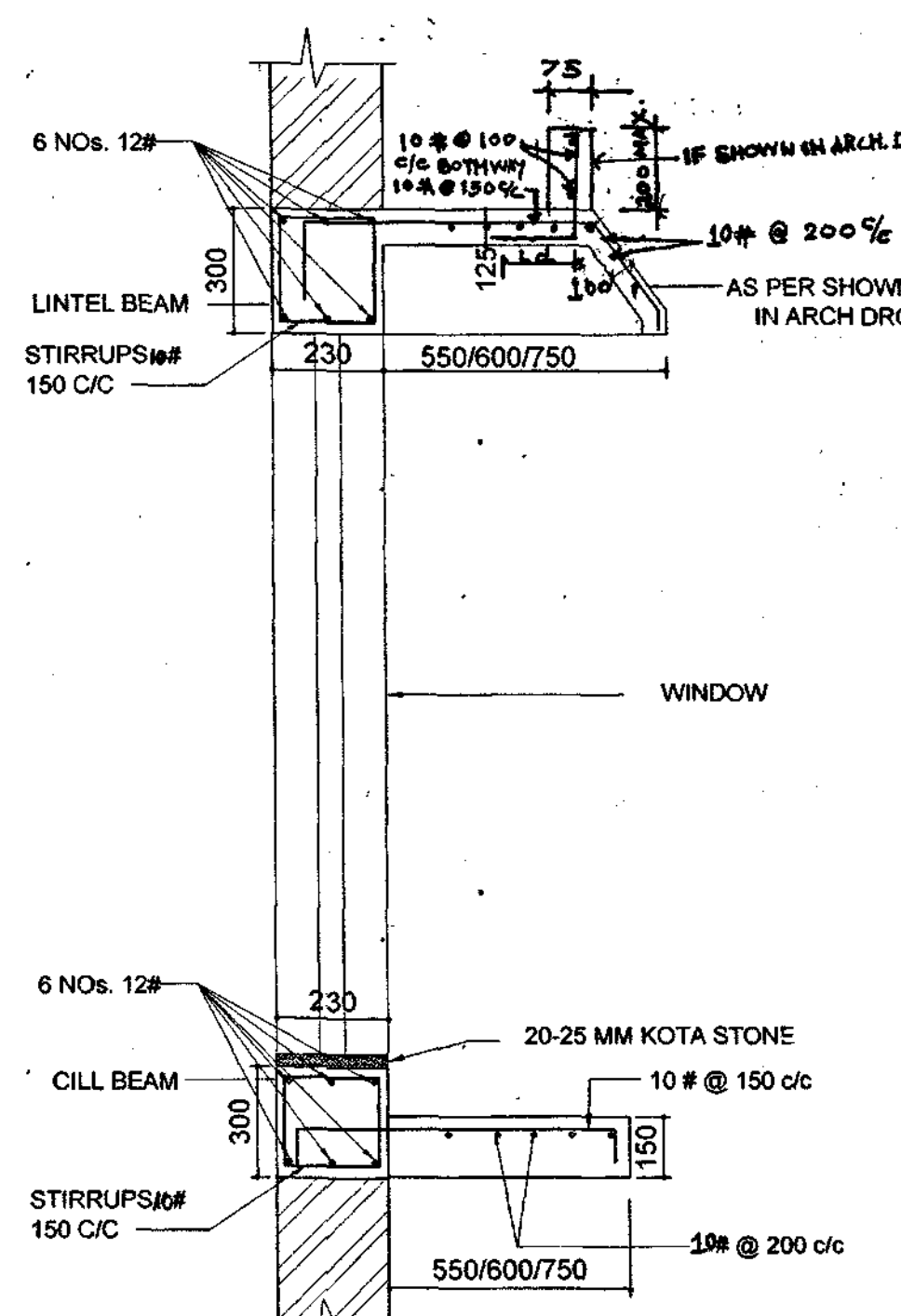
DETAIL OF RCC COPING FOR COMPOUND WALL



FOUNDATION FOR COMPOUND WALL/ 230 th. BRICK WALL UPTO HT. MAX. 1.5 M (WHERE PB NOT PROVIDED)



TYPICAL DETAIL SHOWING PROVISION OF 'U' BARS AT EXTERIOR COLUMN AND BEAMS JUNCTION

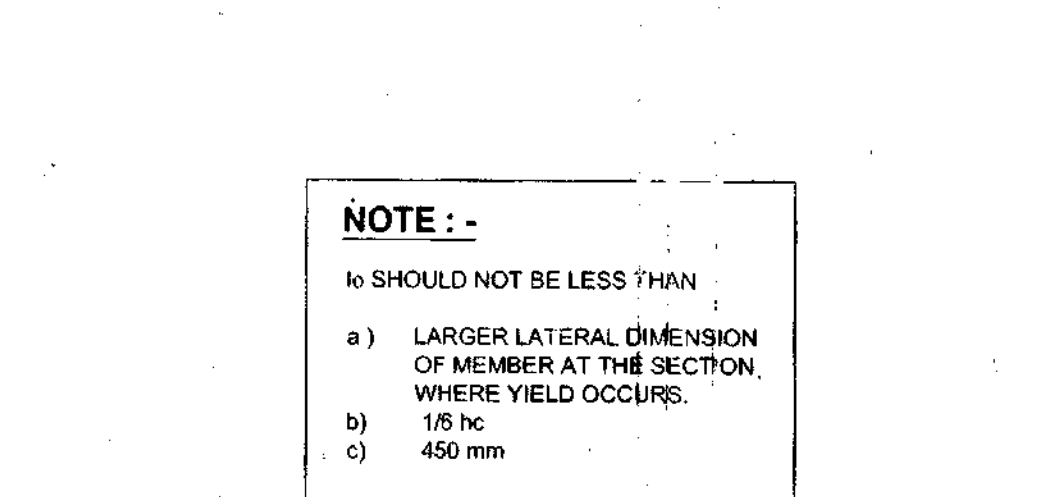
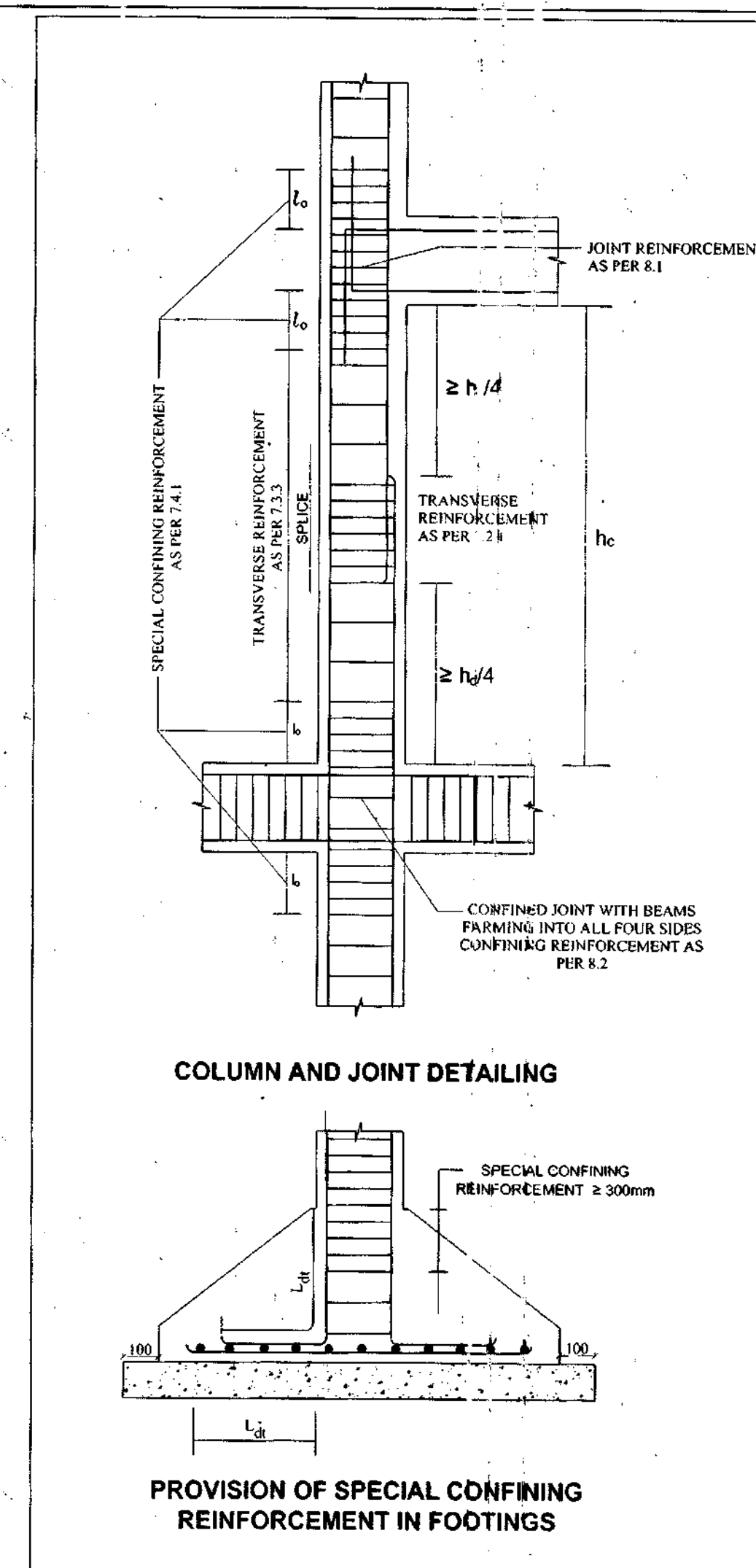
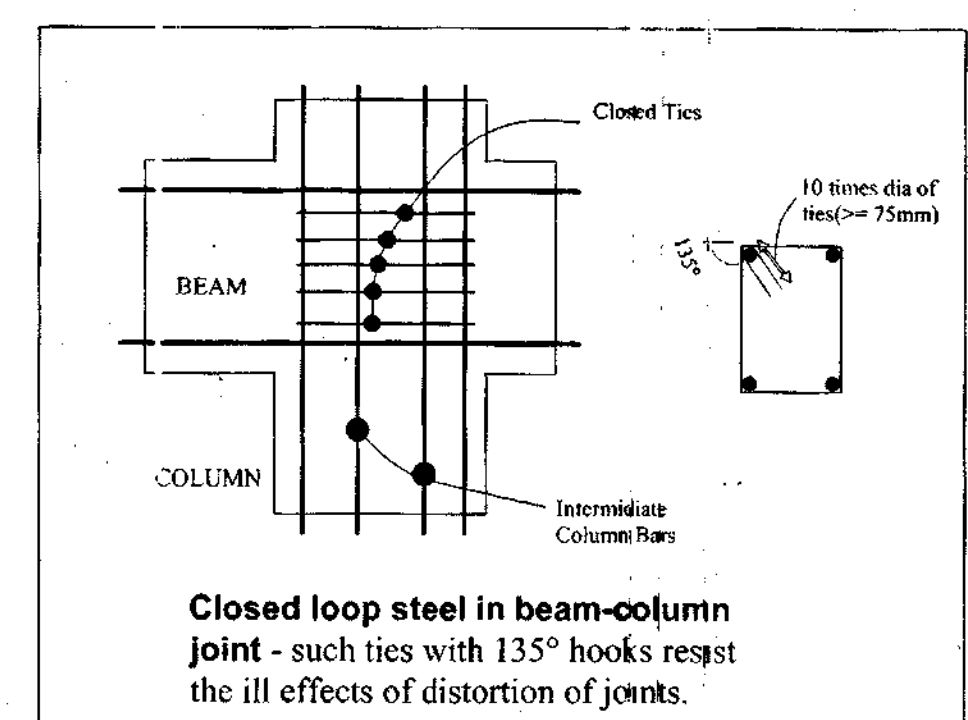
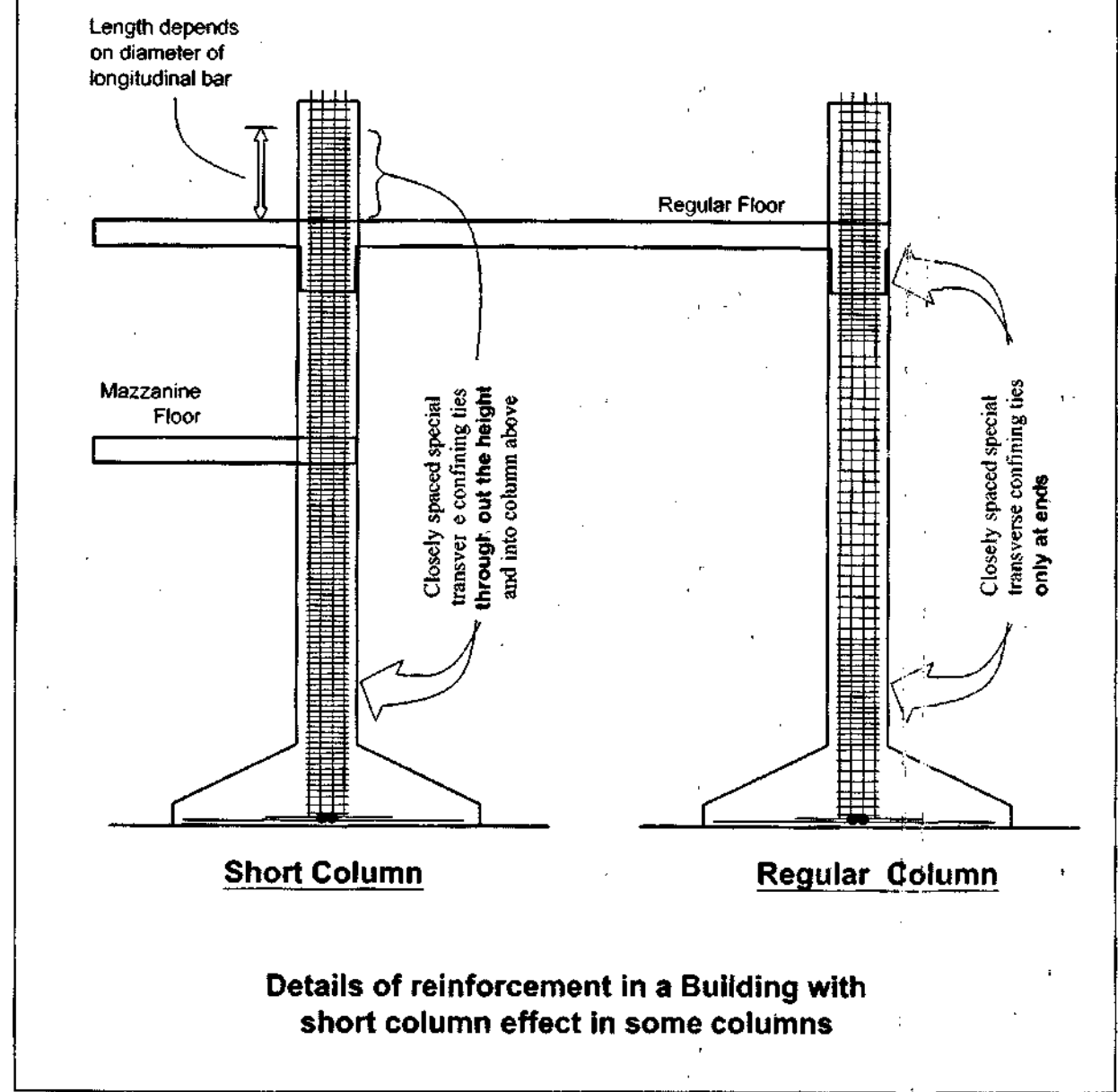
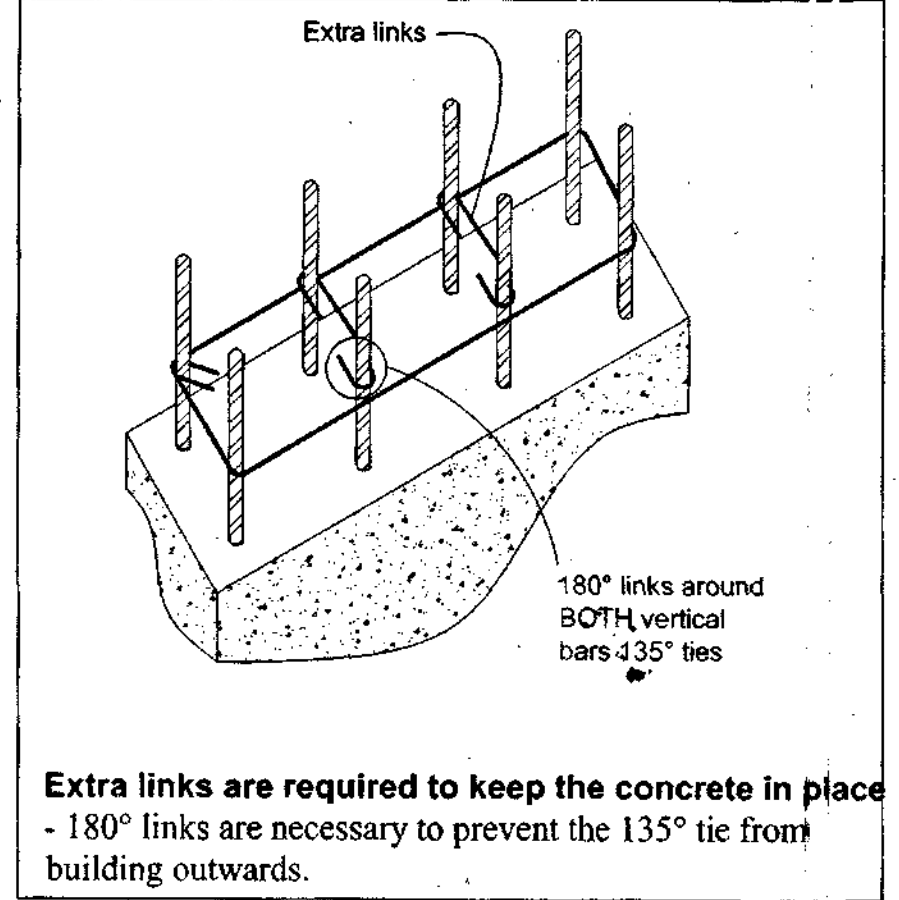
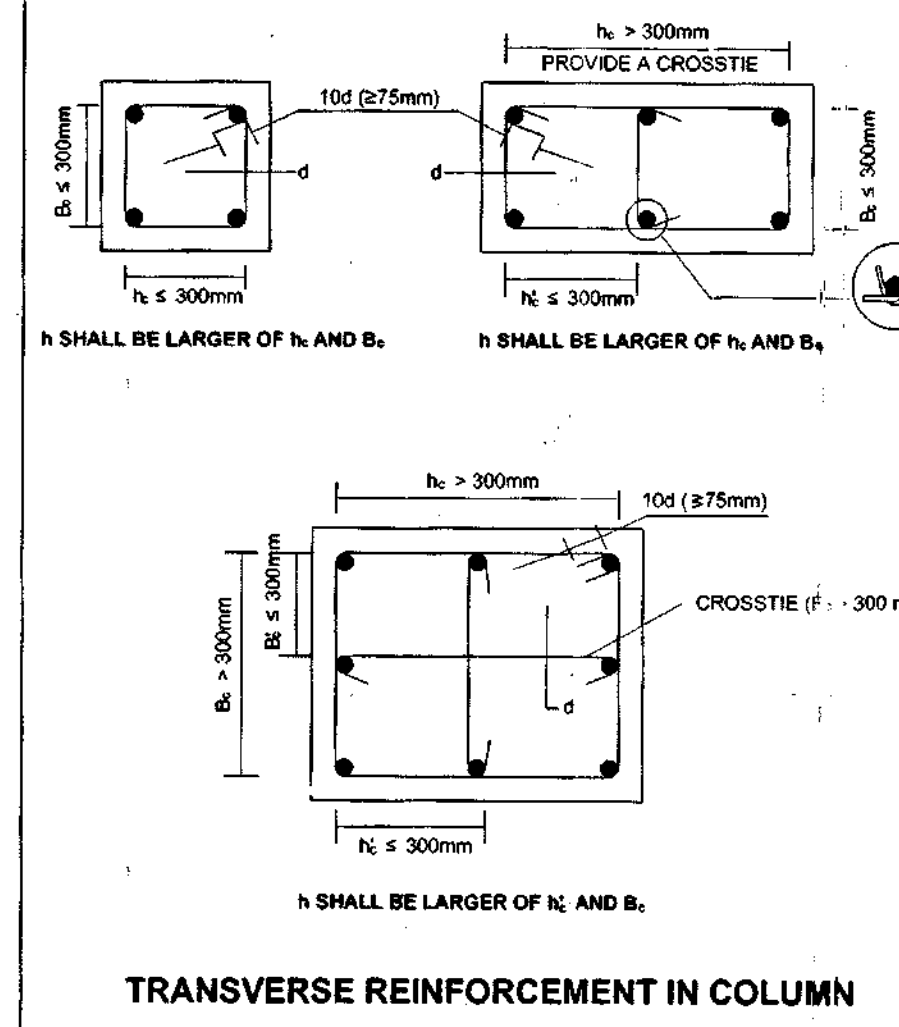
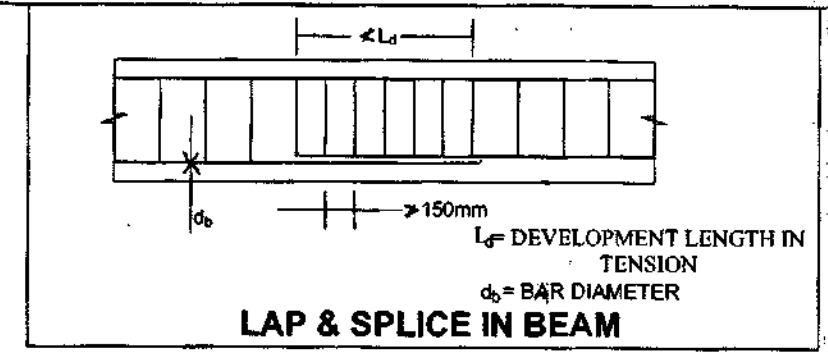
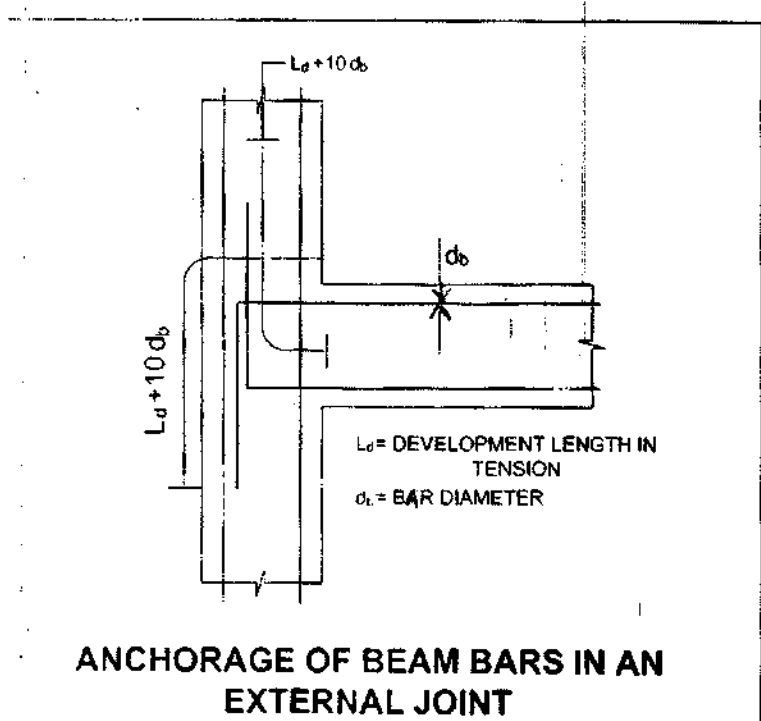
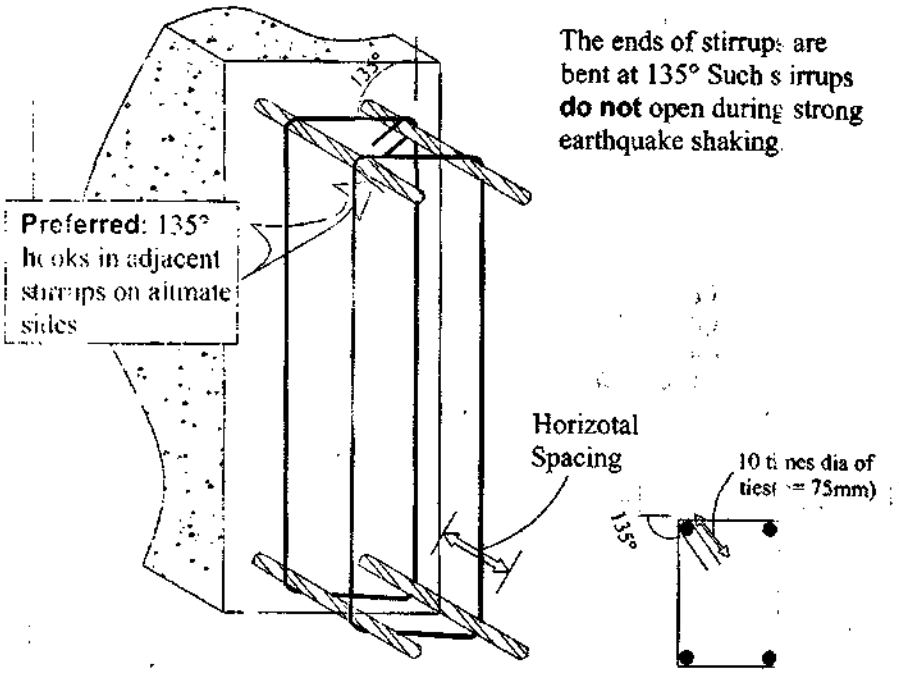
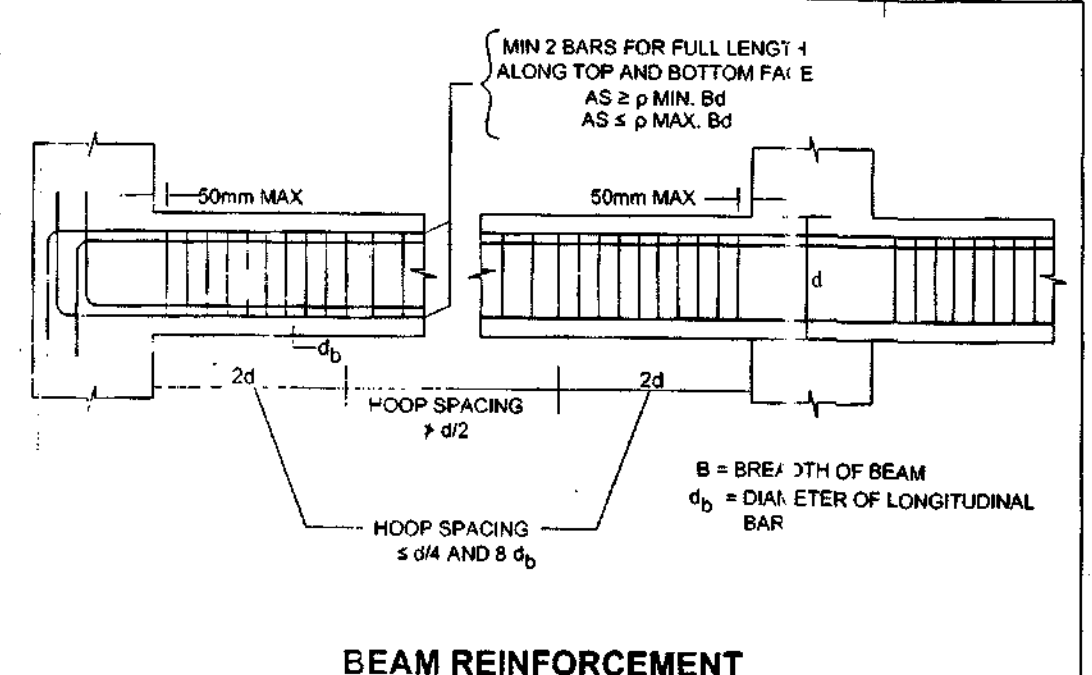
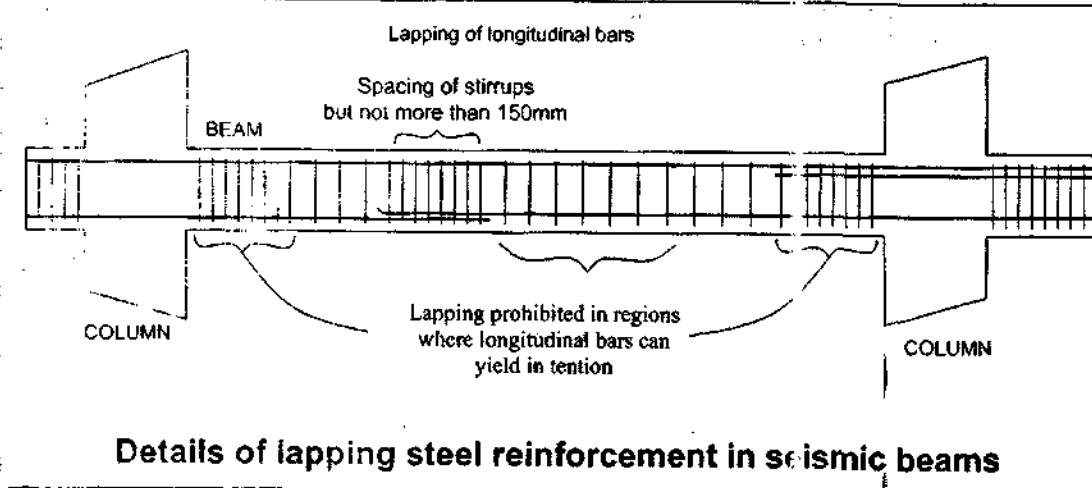
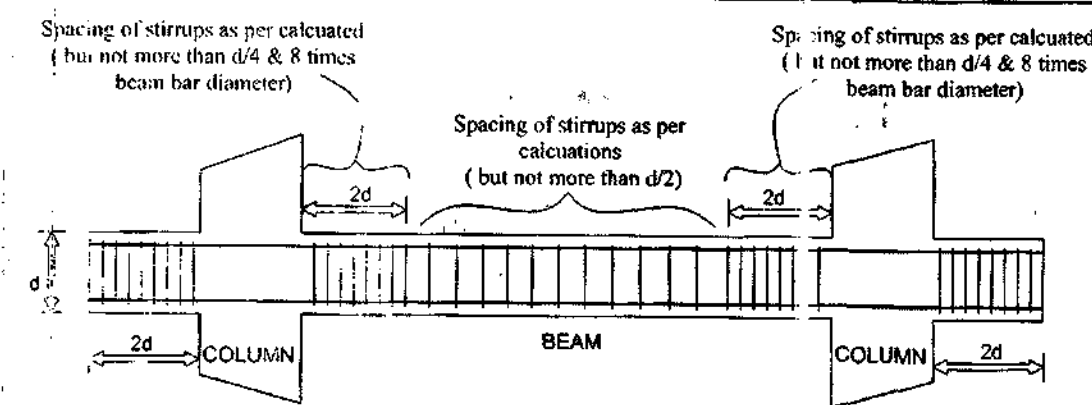


TYP. DETAIL OF WINDOW (END BEARING SHALL BE 300 MM.)

SNO.	DATE	DESCRIPTION	T.O.	DIR (Design)
3	12/01/2015	CORRECTED UPTO DATE		
2	16/05/2014	CORRECTED UP TO DATE		
1	04/10/2013	CORRECTED UP TO DATE. TYP. DETAIL OF WINDOW & DETAIL OF DWARF WALL FDN. (D/W)		

REVISIONS
TYPICAL DETAILS AND NOTES FOR (OTHER THAN WATER STRUCTURAL DRGS RETAINING STRUCTURES)
DETAILS ON RCC STRUCTURE, RCC COL FOOTING AND OTHER DETAILS

DATE	07.10.2015	HQ CHIEF ENGINEER JAIPUR ZONE JAIPUR	SHEET NO. 3/4 (R)
DRAWN	GR Meena		
TRACED			
CHECKED BY	A.R. Mahajan Tech Offr		
SCALE	AS SHOWN	DRG. NO - CEJZ/2015/TD/S-1	
		AR MAHAJAN Tech Offr AAD (Arch)	N. CHAKRABORTY LT COL SO - I (DESIGN) FOR CHIEF ENGINEER



NOTE :-

(a) SHOULD NOT BE LESS THAN

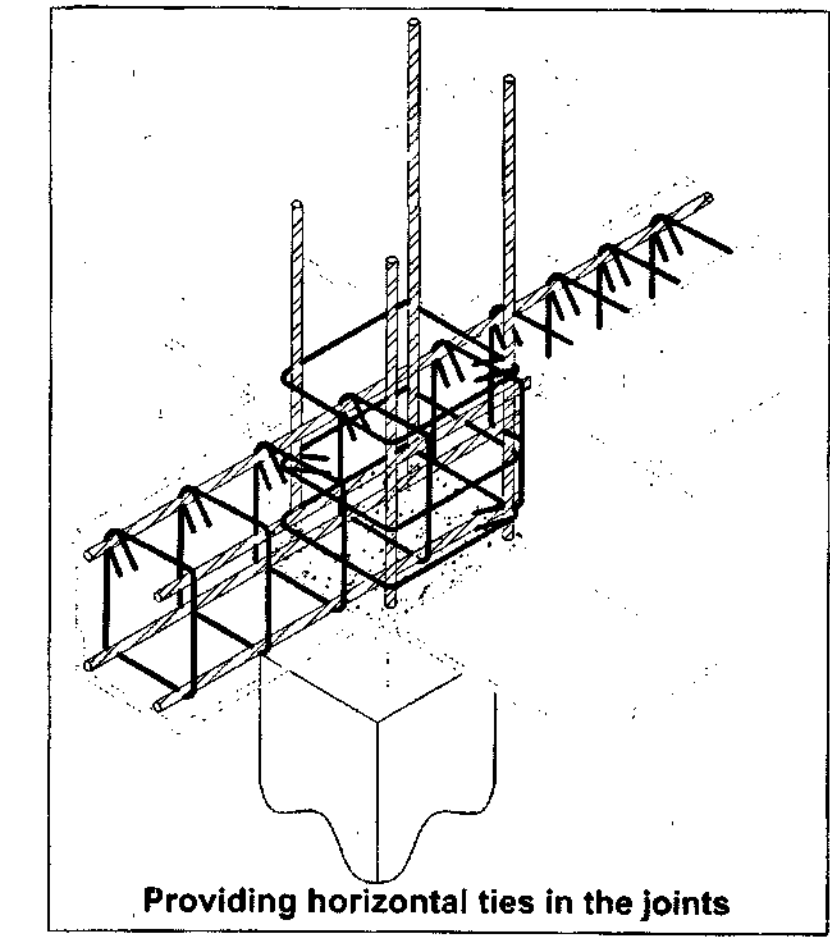
a) LARGER LATERAL DIMENSION OF MEMBER AT THE SECTION, WHERE YIELD OCCURS.

b) $1/8 h_c$

c) 450 mm

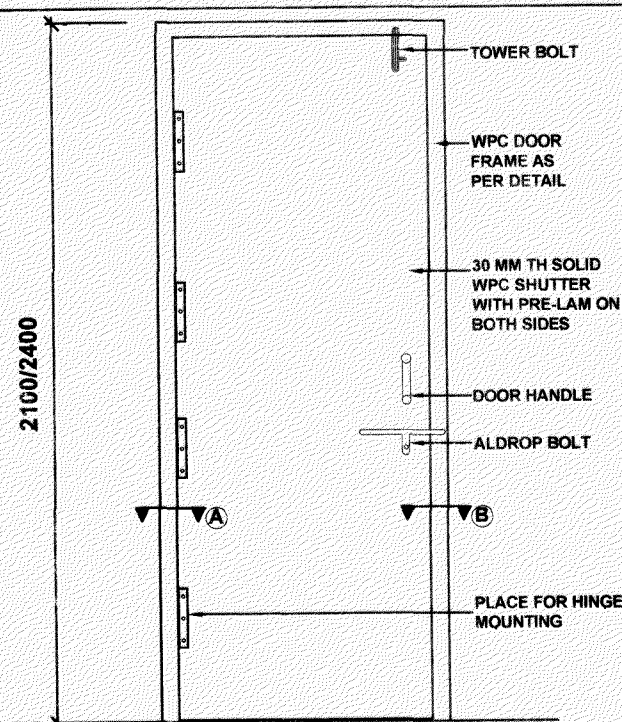
APPLICABLE FOR ZONE III & ABOVE

BAR DIA (mm)	L_d IN TENSION AS PER IS 13920 (mm)	L_d IN COMPRESSION AS PER IS 13920 (mm)
8	533	443
10	666	553
12	800	664
16	1066	885
20	1333	1106
25	1666	1383
32	2133	1770

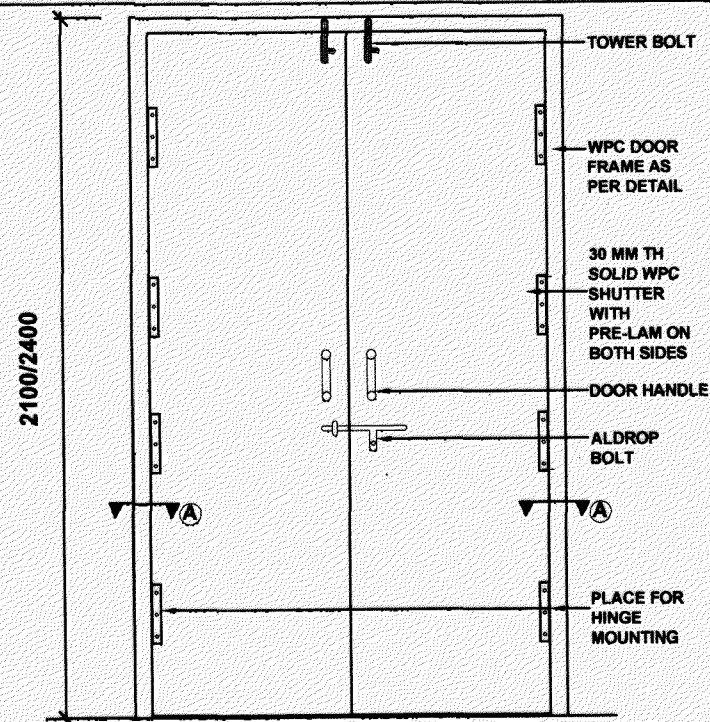


- NOTES :-**
- CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS BEFORE EXECUTION OF THE WORK.
 - ALL DIMENSIONS ARE GIVEN IN MM UNLESS OTHERWISE MENTIONED IN DRAWING.
 - FIGURED DIMENSIONS SHALL BE FOLLOWED.
 - THIS DETAILS APPLICABLE FOR ZONE III & ABOVE.

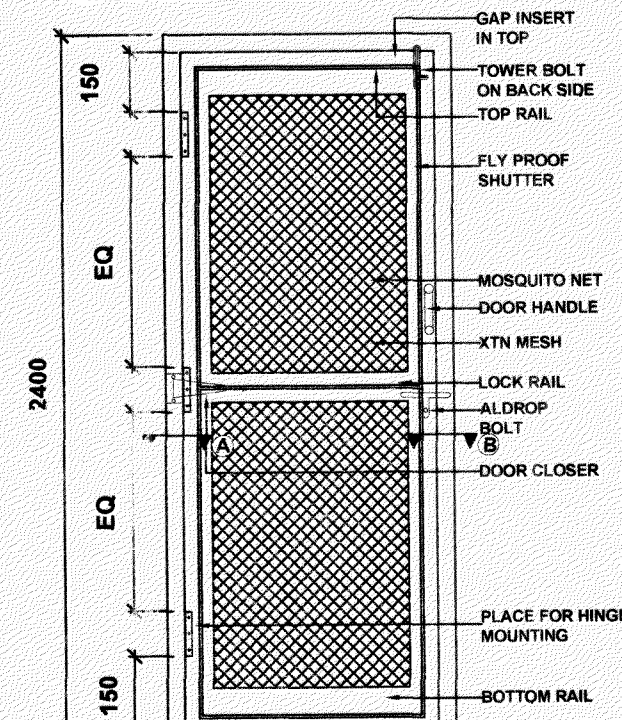
2/12/15	CORRECTED UP TO DATE	1/1/16	1/1/16
1/1/16	NOTE NO 04 ADDED	1/1/16	1/1/16
DATE	DESCRIPTION	TO	DRG(Design)
REVISIONS			
TYPICAL DETAILS AND NOTES FOR (OTHER THAN WATER STRUCTURAL DRGS RETAINING STRUCTURES)			
TYPICAL DETAILS OF BEAMS, COL & JOINTS			
DATE	10.07.2015	HQ CHIEF ENGINEER	SHEET NO.
DRAWN	DR. Mahajan	JAIPUR ZONE	4/4
TRACED		JAIPUR	
CHECKED BY	DR. Mahajan	DRG. NO - CEJZ/2015/TD/S-1	
SCALE	AS SHOWN		
AR. MAHAJAN Tech Offr AAD (Arch)		N. CHAKRABORTY LT COL SO-1 (DESIGN) FOR CHIEF ENGINEER	



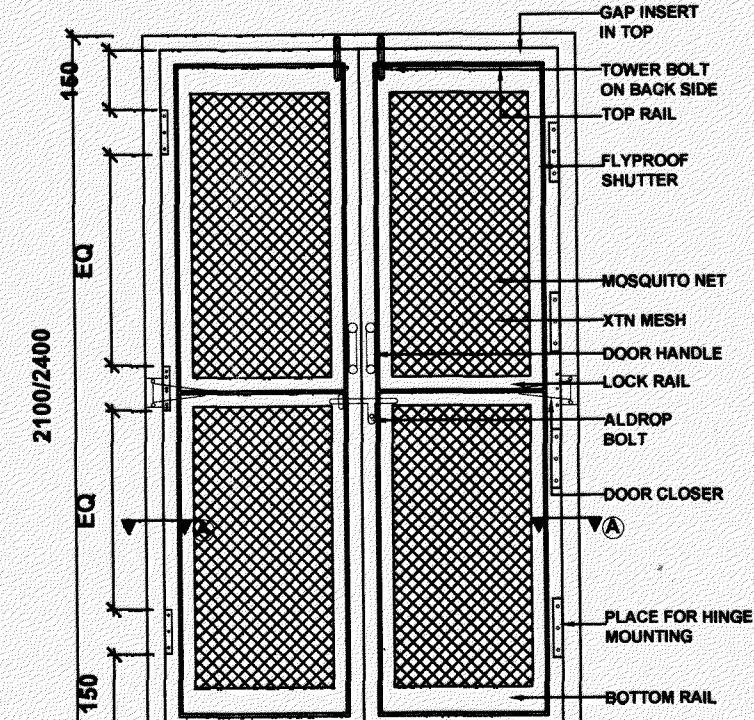
ELEVATION (INSIDE)



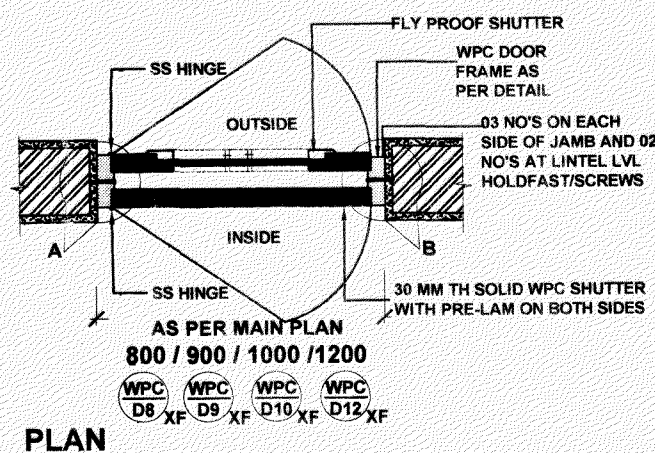
ELEVATION (INSIDE)



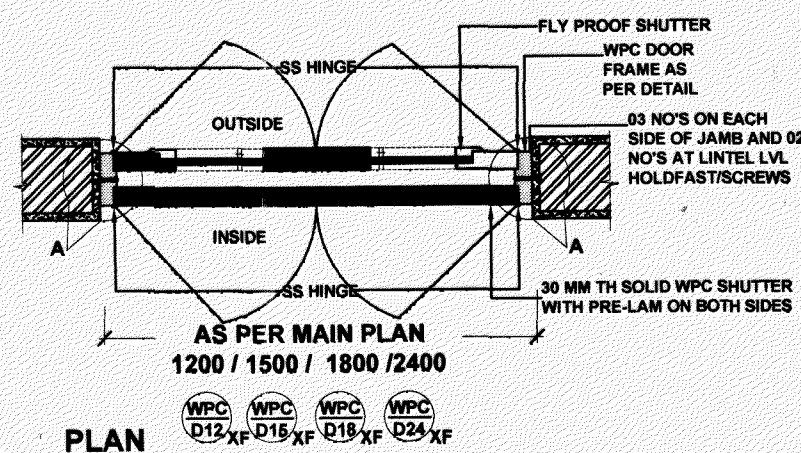
ELEVATION (OUTSIDE)



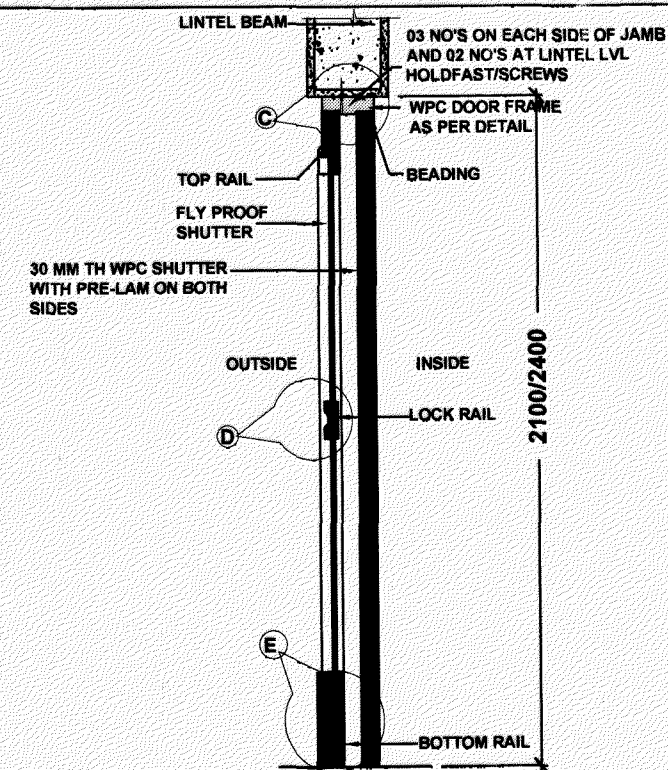
ELEVATION (OUTSIDE)



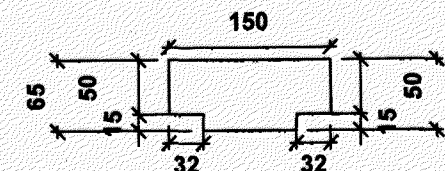
PLAN



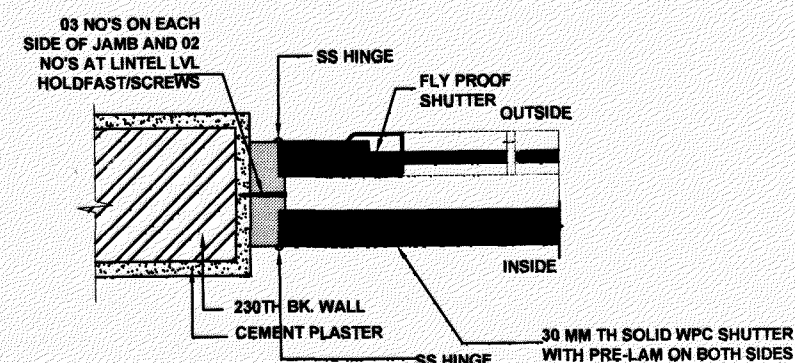
PLAN



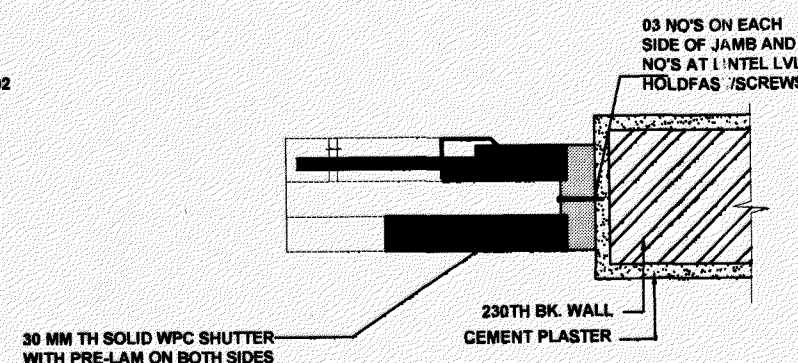
SECTION



TYPICAL DETAIL OF WPC FRAME



DETAIL AT 'A'



DETAIL AT 'B'

NOTES

- CONTRACTOR TO CHECK & VERIFY ALL DIMENSIONS BEFORE EXECUTION OF THE WORK.
- ALL DIMENSIONS ARE GIVEN IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
- FIGURED DIMENSIONS SHALL BE FOLLOWED.
- SIZE OF DOOR MENTIONED HERE IN IS THE CLEAR SIZE OF MASONRY OPENING. A TOLERANCE OF 3mm ON EITHER SIDE SHALL BE ALLOWED WHEN THE DOORS ARE FITTED INTO BUILT IN OPENINGS.
- FLUSH DOOR SHALL BE 30 MM TH. SOLID WOOD PLASTIC COMPOSITE (WPC) WITH PRE-LAMINATED ON BOTH SIDES FOR ROOM & 24 MM TH. SOLID WOOD PLASTIC COMPOSITE (WPC) WITH PRE-LAMINATED ON BOTH SIDES FOR TOILET.
- WIRE GAUGE SHUTTER SHALL OPEN OUT SIDE UNLESS OTHERWISE MENTIONED. ALL FLUSH DOORS SHALL BE FACTORY MADE FINISHED WITH PRE-LAMINATION ON BOTH SIDES AS SPECIFIED.
- MONGERY SHALL BE OF ALUMINIUM ANODISED EXCEPT BUTT HINGE WHICH SHALL BE OF STAINLESS STEEL OR AS SPECIFIED IN THE TENDER DOCUMENTS.
- 04 NOS HINGES SHALL BE PROVIDED FOR 2400 HIGH DOOR SHUTTER.
- WPC DOOR FRAME SHALL BE FIXED TO WALL USING 100 MM LONG S.S. SCREWS/ HOLD FAST 03 NO'S EACH SIDE OF JAMB AND 02 NO'S AT LINTEL LEVEL WITH PVC FASTNERS.
- A MAGIC EYE SHALL BE PROVIDE TO ENTRANCE DOOR OF MARRIED ACCN FOR ALL RANKS.
- THE WINDOWS MARKING HAS BEEN DONE USING THE FOLLOWING NOTATIONS -
X = PROVISION OF DOOR WITH LINTEL LVL 2400 HT
F = DOOR WITH FLY PROOF SHUTTER
A = SINGLE LEAF DOOR SHUTTER
- DENSITY OF WPC SHALL NOT BE LESS THAN 600 KG/M³

SL NO	DATE	DESCRIPTION	INITIAL
-------	------	-------------	---------

REVISIONS

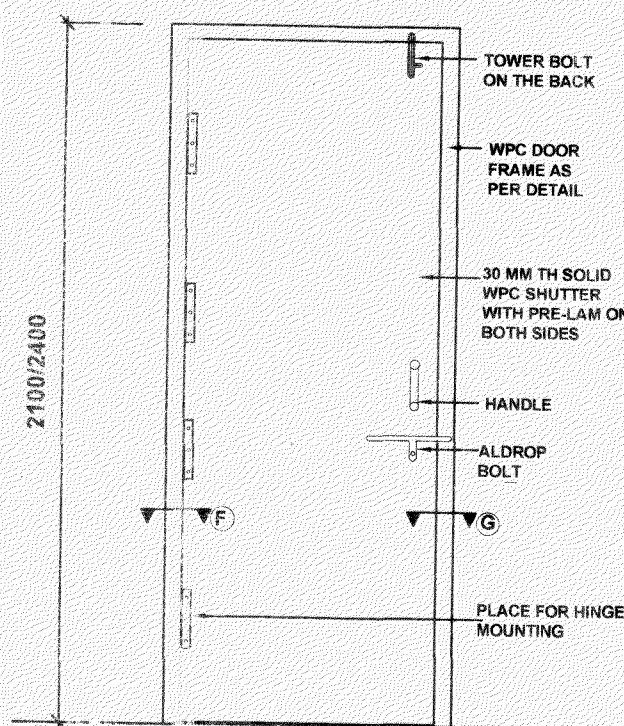
SOLID WPC DOOR SHUTTER, WPC WIRE MESH DOOR SHUTTER WITH WPC DOOR FRAMES

PLAN, ELEVATION, SECTION (WITH FLY PROOF)

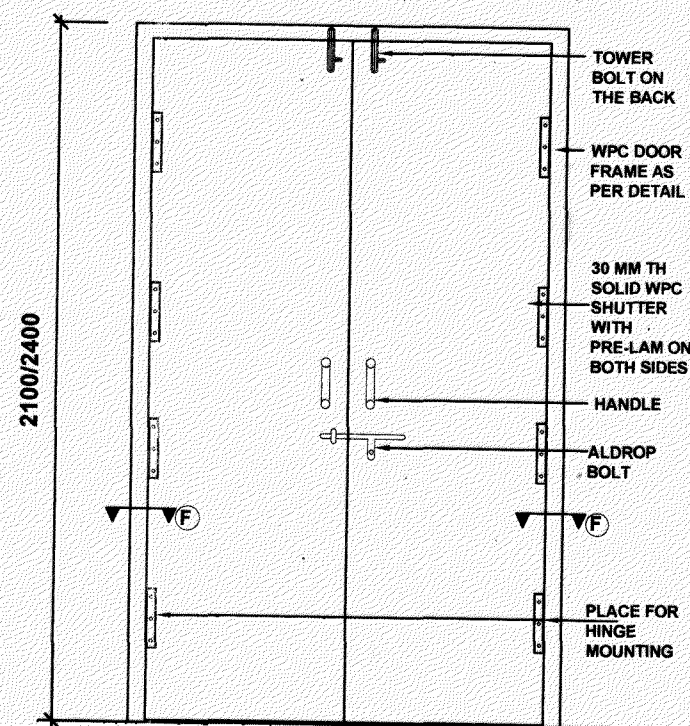
DATE	18-03-2025	CHIEF ENGINEER JAIPUR ZONE	SHT NO 1/2
DRN	VISHAL YADAV		
TCN			
CKD			
SCALE	NTS	DRG NO : TD-2025/04	

M.Y.
TECH OFFR

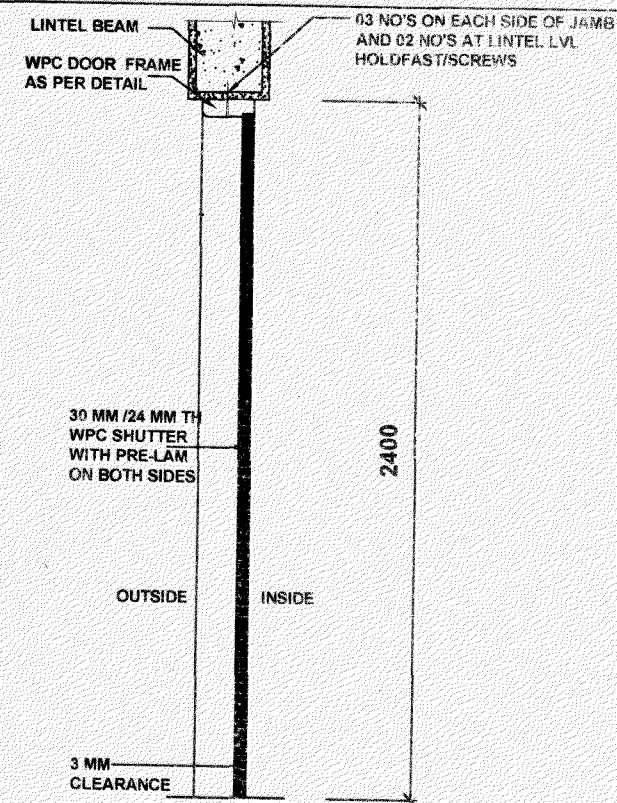
**DIRECTOR (ARCH)
FOR CHIEF ENGINEER**



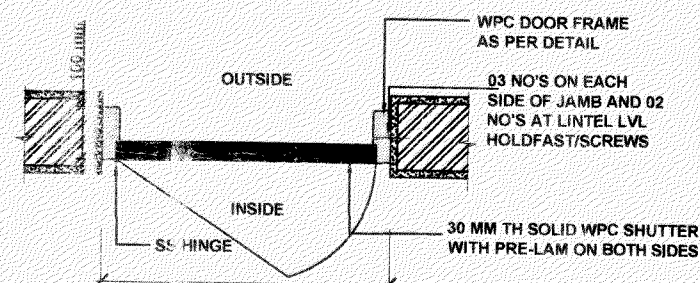
ELEVATION



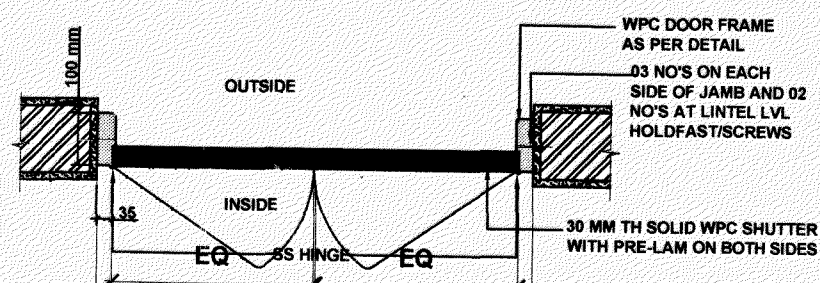
ELEVATION



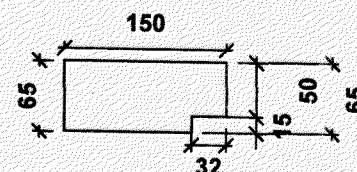
SECTION



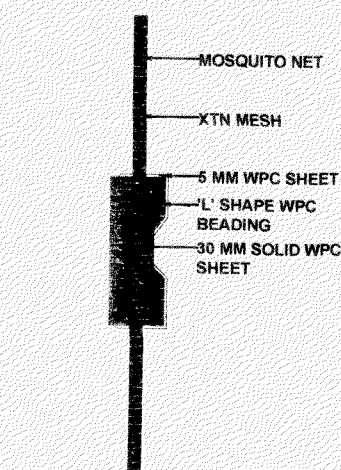
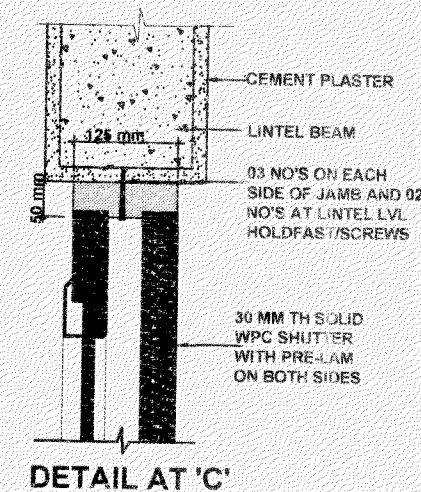
AS / MAIN PLAN
750 / 800 / 900 / 1000 / 1200
WPC D7.5 X WPC D8 X WPC D9 X WPC D10 X WPC D12 XA
PLAN



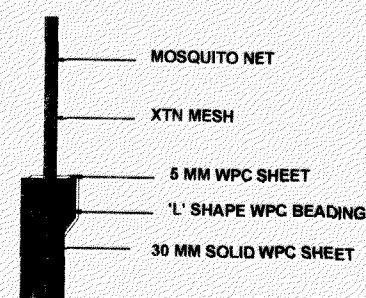
AS PER MAIN PLAN
1200/1500/1800/2400
WPC D12 X WPC D15 X WPC D18 X WPC D24 X
PLAN



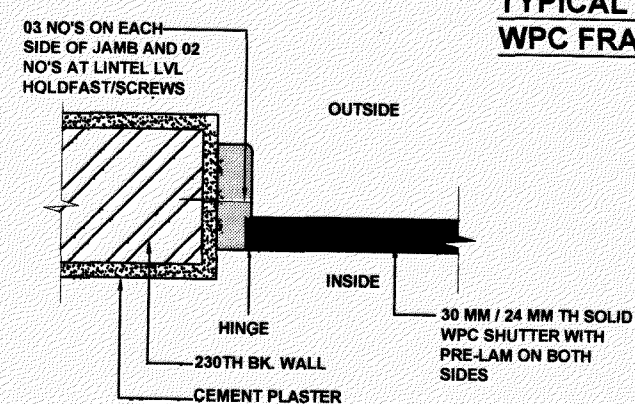
TYPICAL DETAIL OF WPC FRAME



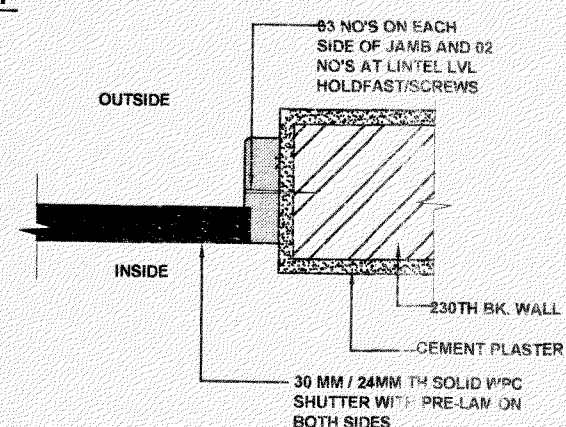
DETAIL AT 'D'



DETAIL AT 'E'



DETAIL AT 'F'



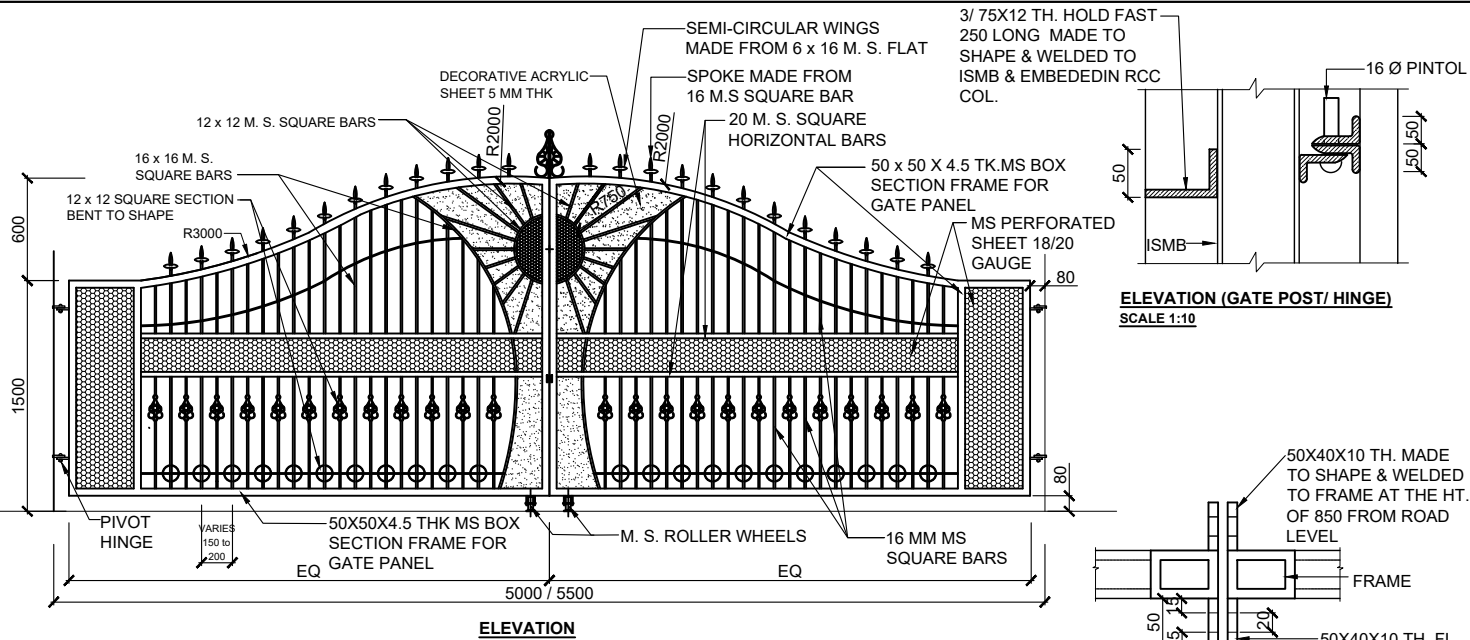
DETAIL AT 'G'

NOTES

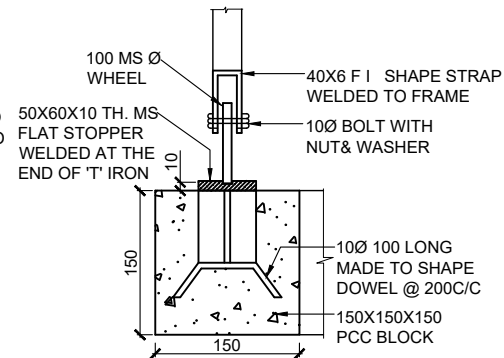
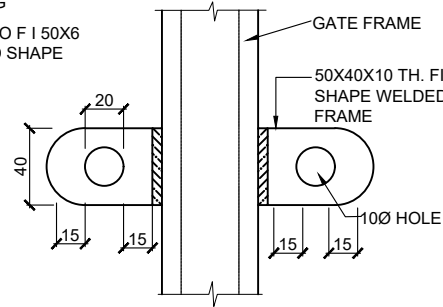
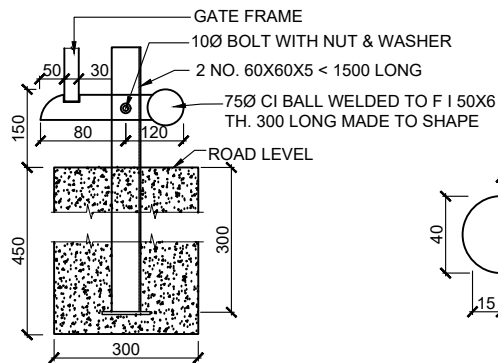
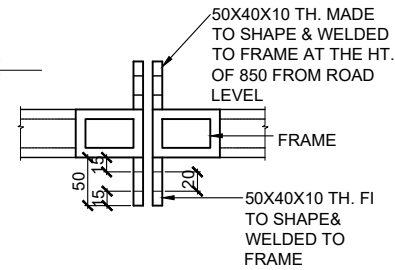
SL NO	DATE	DESCRIPTION	INITIAL
REVISIONS			
SOLID WPC DOOR SHUTTER , WPC WIRE MESH DOOR SHUTTER WITH WPC DOOR FRAMES			
PLAN, ELEVATION, SECTION (WITHOUT FLY PROOF)			
DATE	18-03-2025	CHIEF ENGINEER JAIPUR ZONE	SHT NO 2/2
DRN	VISHAL YADAV		
TCD			
CKD			
SCALE	NTS	DRG NO : TD-2025/04	

M.Y.
TECHNICAL

DIRECTOR (ARCH)
FOR CHIEF ENGINEER



ELEVATION (GATE POST/ HINGE)
SCALE 1:10



S.NO.	DATE	DESCRIPTION	INITIAL
REVISIONS			
DETAIL OF ORNAMENTAL GATE			
DETAILS			
DATE	19-05-2026	HQ CHIEF ENGINEER JAIPUR ZONE	SHEET No.
DRN BY			1
SCALE			1
DRG No. -			
SK / 11			