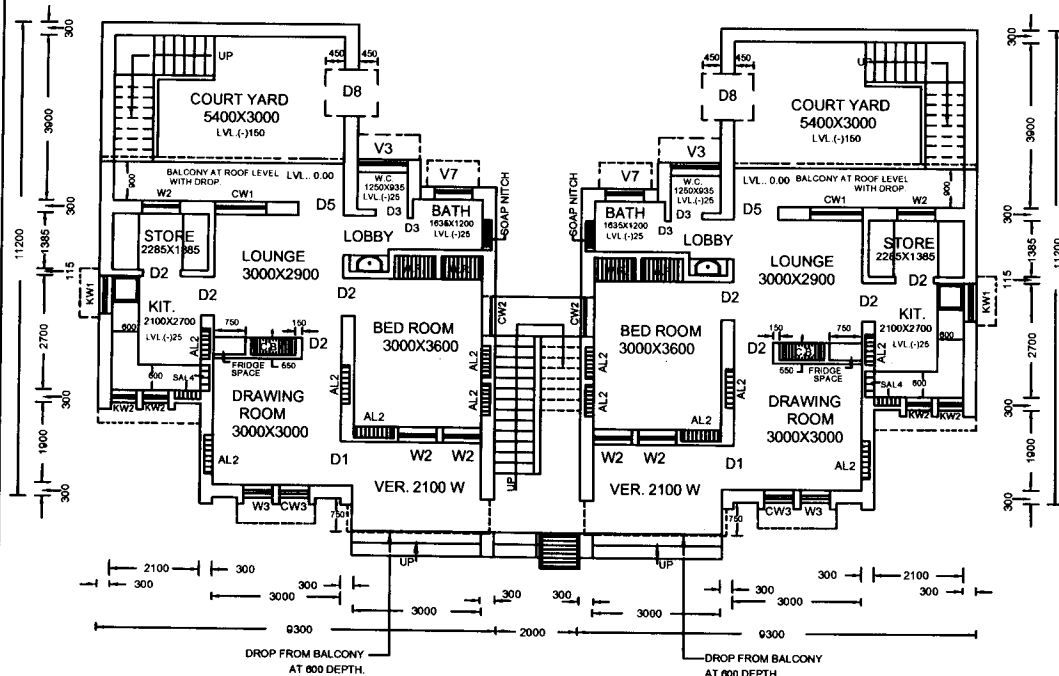


R4

TYPE R-4 (DRG.2003)



GROUND FLOOR PLAN

NOTES :-

1. THIS DRAWING SUPERSEDES THE EARLIER DRG. NO.444 /2K2 DATED 31.1.2002
2. NO DIMENSION SHALL BE MEASURED FROM THE DRAWING.
3. ALL DIMENSIONS ARE IN MILLIMETER.
4. PLINTH LEVEL OF THE BUILDING SHALL BE DECIDED BY S.E. (CIVIL)
5. FOUNDATION SECTION SHALL BE PROPERLY DESIGNED AND APPROVED BY S.E. CIVIL AFTER CONDUCTING SOIL INVESTIGATION.
6. LINTEL HEIGHT 2000MM.
7. CEILING HEIGHT 3000MM.
8. PARAPET HEIGHT 900MM.
9. KITCHEN WINDOW HEIGHT 1050 (900 OPENABLE +150 FIXED GLAZED)
10. IF SINGLE QTR. CONSTRUCTED STAIR SHALL BE PROVIDED FROM COURT YARD.
11. IF DOUBLE QTR. CONSTRUCTED CENTRAL STAIR CASE SHALL BE OPEN TO SKY.
12. IF DOUBLE STOREY QTR. CONSTRUCTED, COMMON STAIR CASE WITH HEAD ROOM TO BE PROVIDED.
13. RISE & TREAD NOT TO BE COUNTED FROM DRAWING.
14. ALL STEEL SECTION SHALL BE PAINTED WITH RED-OXIDE BEFORE FIXING.
15. WORK SHALL BE CARRIED OUT AS PER SPECIFIED GUIDE LINES & RELEVANT IS CODES.
16. ROOF OF W.C. TO BE SUNK BY 380MM.
17. 2000 WIDE COMMON APPROACH IN FRONT OF COMMON STAIRCASE PORTION SHALL BE PROVIDED AS INDICATED IN DRG.
18. IN CASE OF ANY DISCREPANCY IN THE DRAWING OR DIFFICULTY AT SITE, THIS OFFICE MUST BE REFERRED IMMEDIATELY PRIOR TO EXECUTION OF WORK.

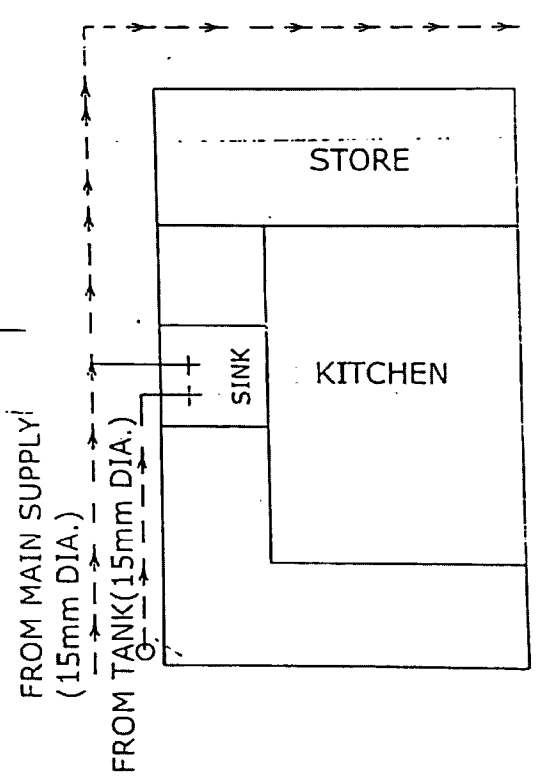
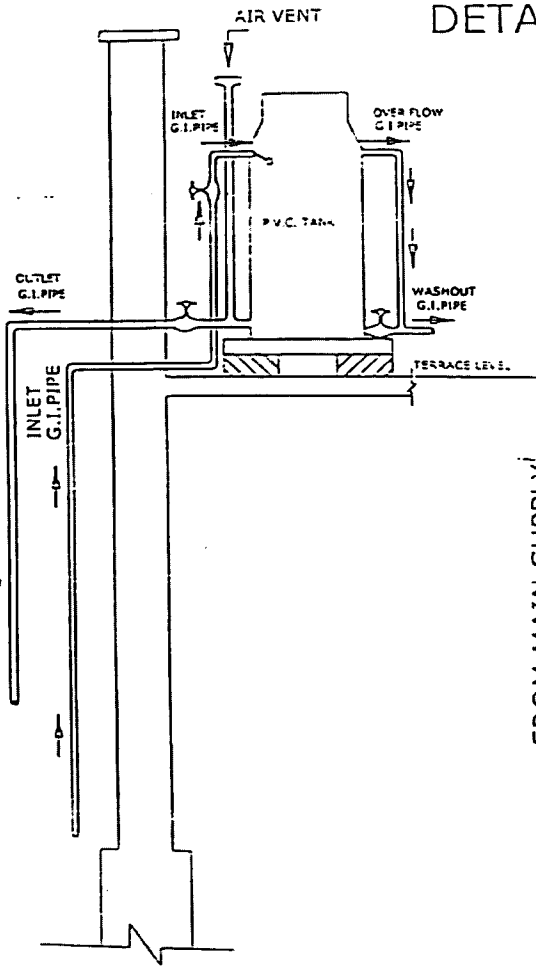
JOINERY DETAILS:-

- 1-DOOR D1 1050X2000 SINGLE LEAF ASSAM TEAK.
D2 900X2000 SINGLE LEAF ASSAM TEAK.
D3 750X2000 SINGLE LEAF ASSAM TEAK.
D5 1050X2000 DOUBLE LEAF ASSAM TEAK.
D8 1050X2000 DOUBLE LEAF STEEL.
- 2-WINDOW
W1 1200X1200 STEEL.
W2 900X1200 STEEL.
W3 700X1200 STEEL.
CW1 1200X1200 STEEL. (COOLER WINDOW)
CW2 900X1200 STEEL. (COOLER WINDOW)
CW3 700X1200 STEEL. (COOLER WINDOW)
KW1 900X1050 STEEL. (COOLER WINDOW)
KW2 800X1050 STEEL.
- 3-VENT
V3 1250X450 STEEL.
V7 800X450 STEEL.
- 4-ALMIRAH
AL2 900X1900
SAL2 900X1200
SAL4 800X1200

Chief Engineer (Civil)
R.R.V.P.N.L., JAIPUR

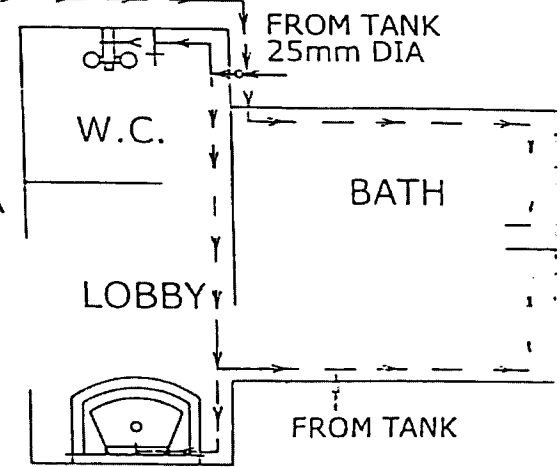
OFFICE OF THE CHIEF ENGINEER (CIVIL)		
R.R.V.P.N.LTD.JAIPUR.		
PLAN OF R-4 TYPE QTR.(TYPE DESIGN) 2003		
DRAWN BY:- (P.PAREEK) DIYAN-H	CHECKED BY:- A/ENCL-DESIGN	DRG.NO. 495/2K3 SCALE:-N.T.S. DATE: 28.5.2003
SUBMITTED BY	RECOMMENDED BY	APPROVED BY:-
X/ENCL-DESIGN	T.A. TO C.E.(CIVIL)	CHIEF ENGINEER(C)

DETAILS OF WATER SUPPLY SYSTEM FOR R-4 TYPE QTR.(2001)



Ⓚ TO COURT YARD
15mm DIA

Ⓚ FROM DIRECT SUPPLY
15mm DIA



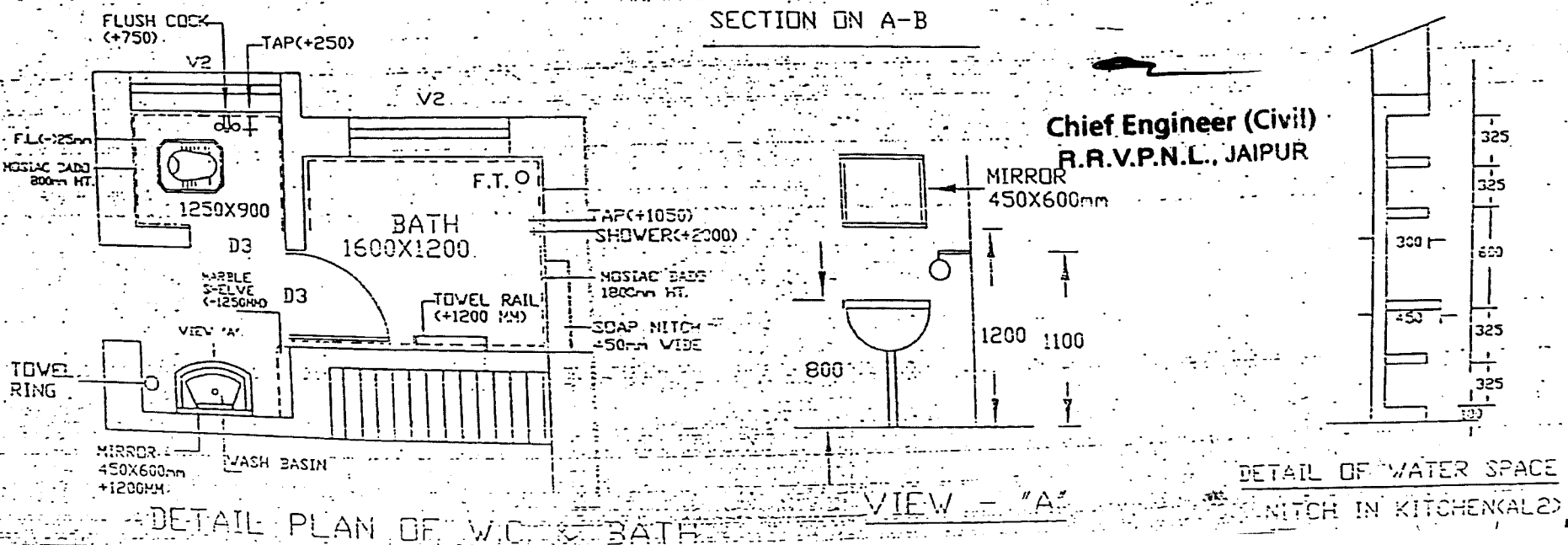
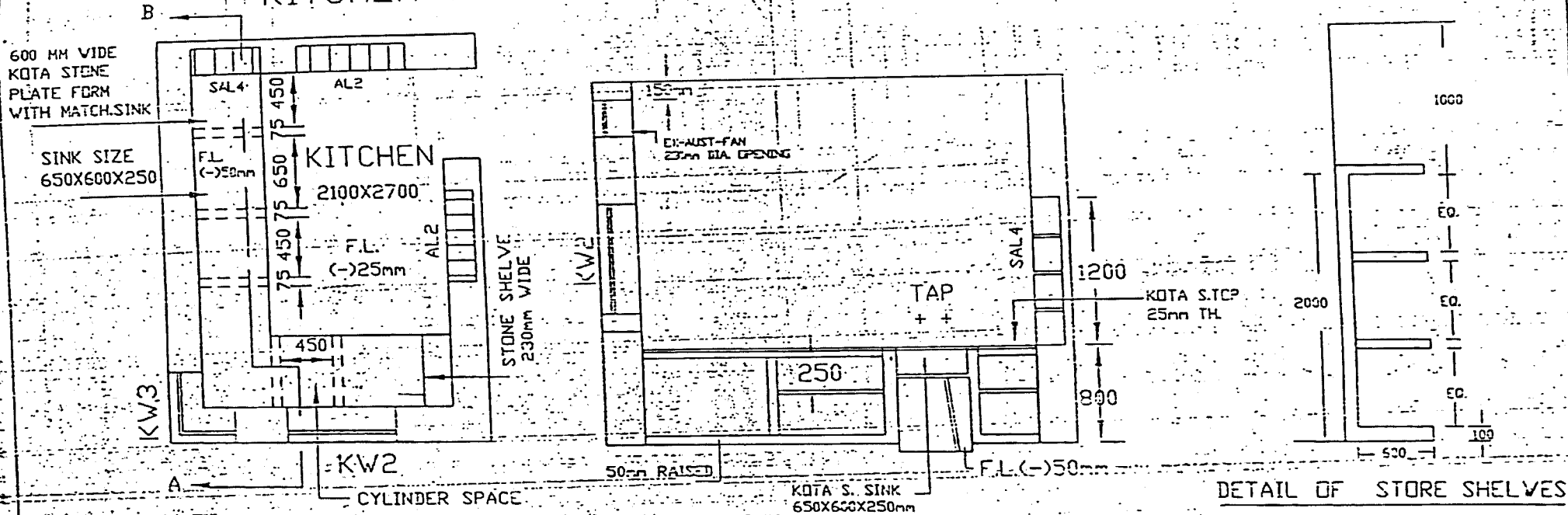
PLACEMENT DETAIL
P.V.C. TANK(TYP.)

Chief Engineer (Civil)
R.R.V.P.N.LTD., JAIPUR

OFFICE OF THE ADDL.CHIEF ENGINEER(CIVIL) R.R.V.P.N.LTD., JAIPUR		
WATER SUPPLY SYSTEM FOR R-4 TYPE QTR.(2001)		
DRAWN BY:- <i>(Signature)</i> (O.P.PAREEK) D/MAN-II	CHECKED BY:- <i>(Signature)</i> AEN(C-DESIGN)	DRG.NO. 402/2001 SCALE:- 1/10 DATE:- 10/05/2001
SUBMITTED BY: <i>(Signature)</i> AEN(C-DESIGN)	RECOMMENDED BY: <i>(Signature)</i> T.A. TO A.C.E.(CIVIL)	APPROVED BY: <i>(Signature)</i> ADDL.CHIEF ENGINEER

KITCHEN & TOILET DETAILS FOR R-4 TYPE QTR.(2001)

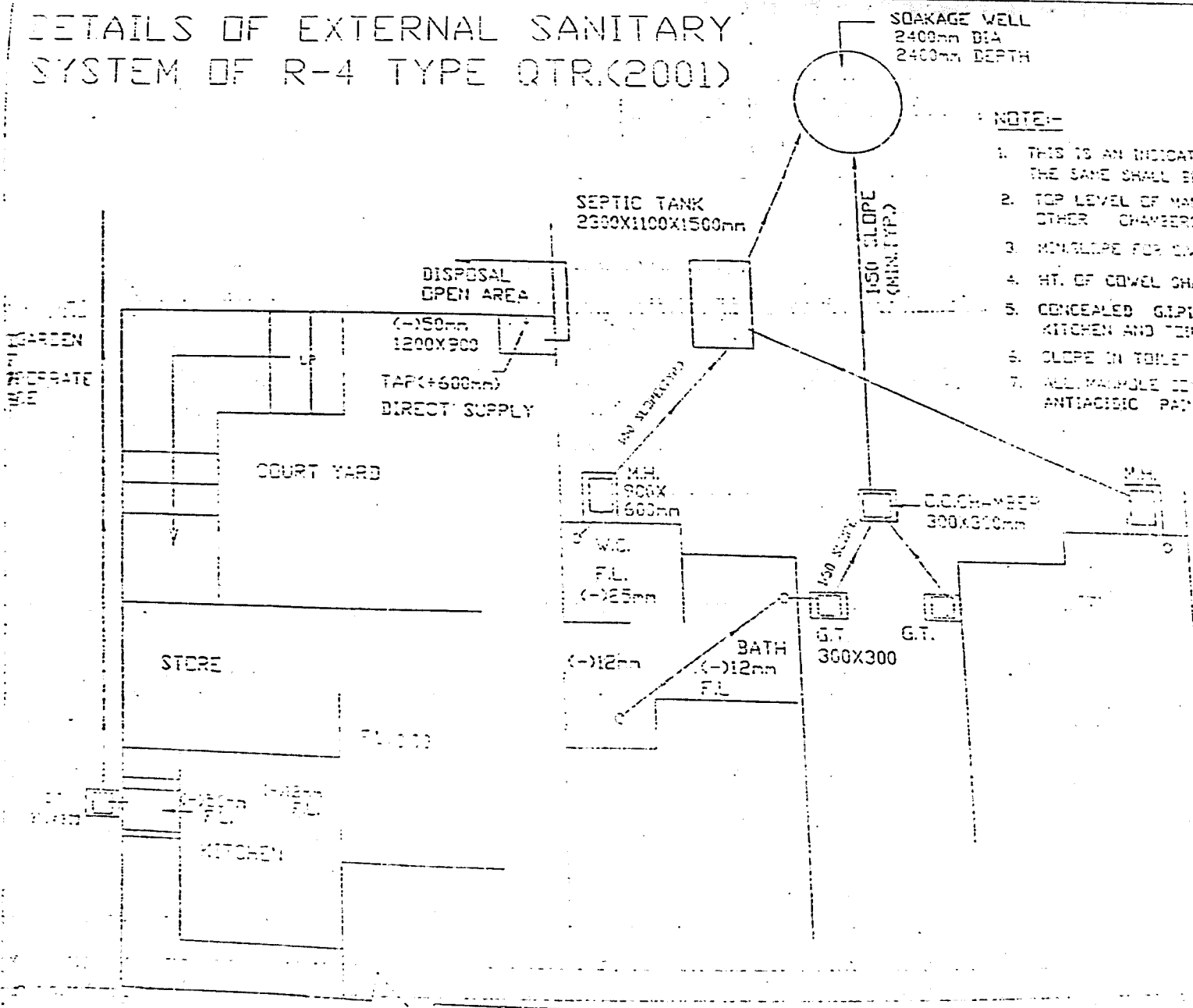
SHEET-1/2



Chief Engineer (Civil)
R.R.V.P.N.L., JAIPUR

DETAILS OF EXTERNAL SANITARY SYSTEM OF R-4 TYPE QTR.(2001)

SHEET-2/2



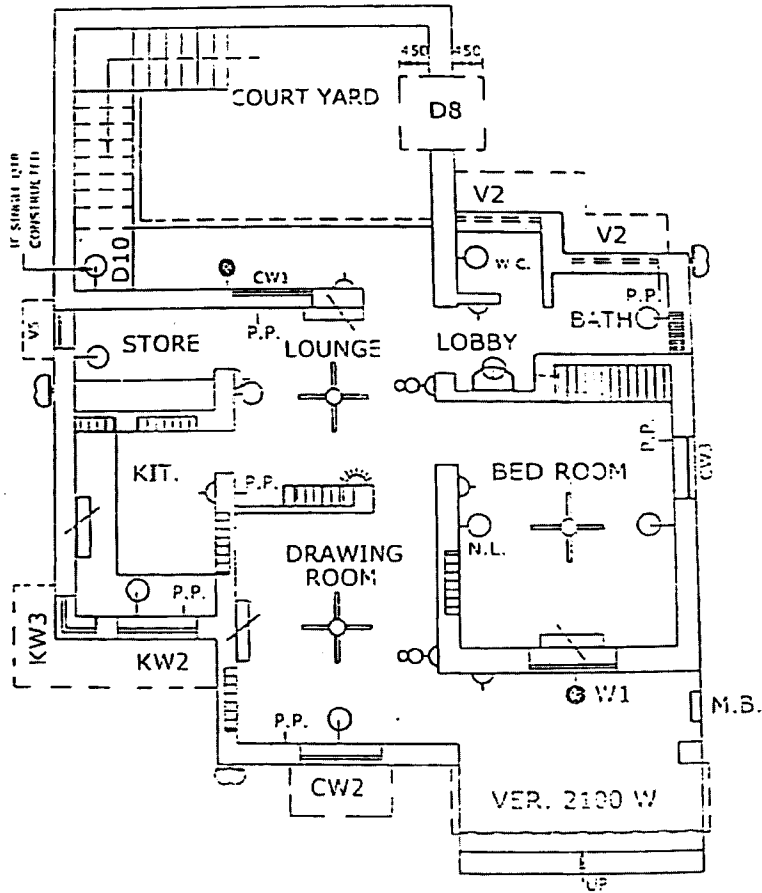
NOTE:-

1. THIS IS AN INDICATIVE DRAWING. IF ANY CHANGE IS REQUIRED THE SAME SHALL BE REFERRED TO THIS OFFICE.
2. TOP LEVEL OF MANHOLE, SEPTIC TANK, SOAKAGE WELL AND OTHER CHAMBERS SHALL BE 100mm ABOVE THE FINISHED G.L.
3. MIN. SLOPE FOR D.W. & A.C. PIPE LINE SHALL BE 1:50.
4. HT. OF COWEL SHALL BE 1750mm ABOVE THE TERRACE LEVEL.
5. CONCEALED G.I. PIPE SHALL BE PROVIDED ON INNER SIDE OF KITCHEN AND TOILET ALONG THE WALLS AS FAR AS POSSIBLE.
6. SLOPE IN TOILET FLUSH SHALL BE 1:50 TOWARDS FLOOR TRAP.
7. ALL MANHOLE COVERS AND FRAMES SHALL BE PAINTED WITH ANTIACIDIC PAINT.

Chief Engineer (Civil)
R.R.V.P.N.L., JAIPUR

OFFICE OF THE ADDITIONAL ENGINEER (CIVIL) R.R.V.P.N.L., JAIPUR		
NOTY ON AND SANITARY DETAILS OF R-4 TYPE QTR. 2001		
DESIGN BY [Signature]	CHECKED BY [Signature]	DATE [Date]
APPROVED BY [Signature]	RECOMMENDED BY [Signature]	APPROVED BY [Signature]

ELECTRIFICATION OF R-4 TYPE QTR. (DRG.2001)



1. LIGHT POINT	⊖
2. TWO WAY LIGHT POINT	⊖⊕
3. FAN POINT	⊕
4. TUBE LIGHT POINT	⊖⊖
5. BULK HEAD FITTING	⊖
6. SWITCH BOARD	⊖⊖
7. TWO WAY POINT ON BOARD	⊖⊕⊖
8. POWER POINT	P.P.
9. CEILING FITTING	⊖
10. EXHAUST FAN	⊖
11. BELL POINT	⊖

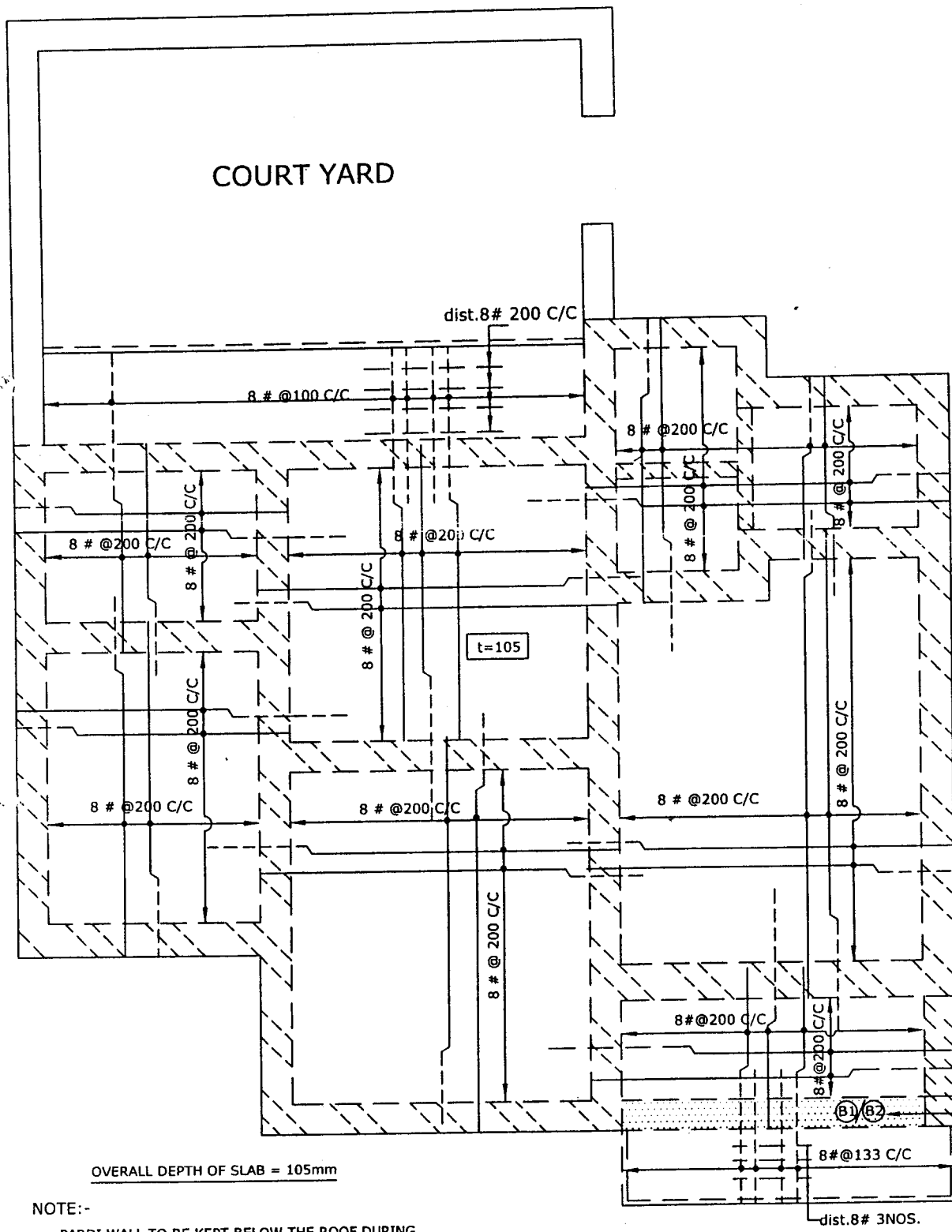
BOTTOM LEVEL OF SWITCH BOARD	1200mm
BOTTOM LEVEL OF POWER POINT IN ROOMS	1200mm
LEVEL OF POWER POINT IN TOILET	1800mm
LEVEL OF POWER POINT IN KITCHEN ABOVE PLATE FORM	450mm

NOTE:- (I) ACCESSORIES SHALL BE PROVIDED AS PER APPROVED MAKE/GUIDE LINES.

Chief Engineer (Civil)
R.R.V.P.N.L., JAIPUR

OFFICE OF THE ADDL. CHIEF ENGINEER (CIVIL) R.R.V.P.N.LTD. JAIPUR.		
ELECTRIFICATION OF R-4 TYPE QTR. (TYPE DESIGN 2001)		
DRAWN BY:- <i>[Signature]</i> (C.P. PAREEK) S. MANVI	CHECKED BY:- <i>[Signature]</i> AENL-DESIGN	DRG NO 402/241 SCALE - R.T.S. DATE - 11.6.2011
SUBMITTED BY <i>[Signature]</i> VEN. C-DESIGN	RECOMMENDED BY <i>[Signature]</i> T.A. FOR C.E. (CIVIL)	APPROVED BY <i>[Signature]</i> ADDL. CHIEF ENGINEER (CIVIL)

SLAB RIENFORCEMENT DETAIL FOR R-4 TYPE QTR.



OVERALL DEPTH OF SLAB = 105mm

NOTE:-

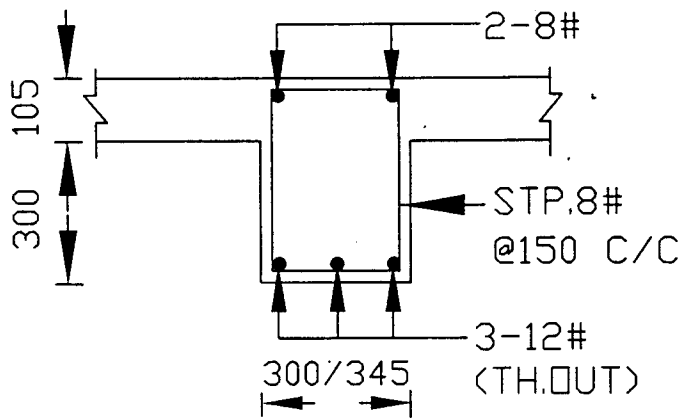
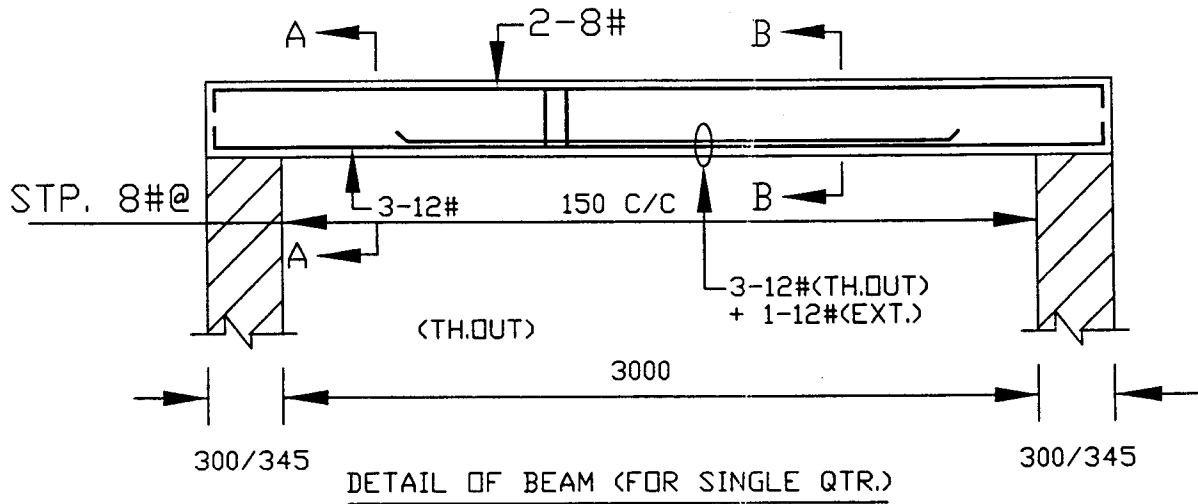
PARDI WALL TO BE KEPT BELOW THE ROOF DURING CASTING OF R.C.C. SLAB, ONLY AFTER REMOVING OF SHUTTERING IT SHOULD BE ERECTED UP TO ROOF.

B1 FOR SINGLE QTR.
B2 FOR BL. OF DOUBLE QTR.

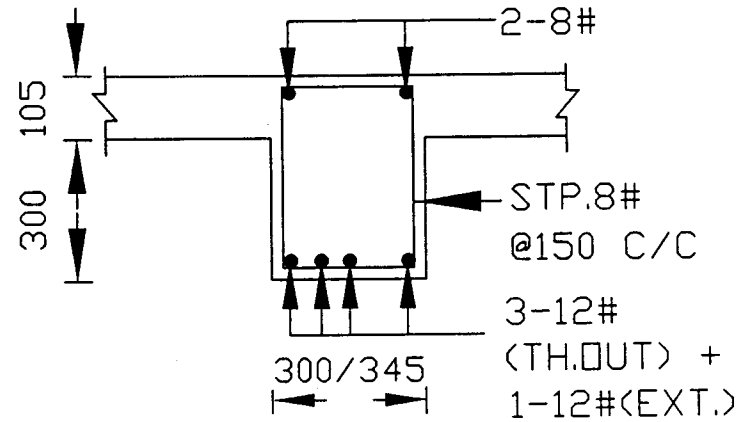
Chief Engineer (Civil)
R.R.V.P.N.L., JAIPUR

DETAIL FOR BEAM B1(FOR SINGLE QTR.)

R-4 QTR.
SHEET 2/4



SECTION AT A-A



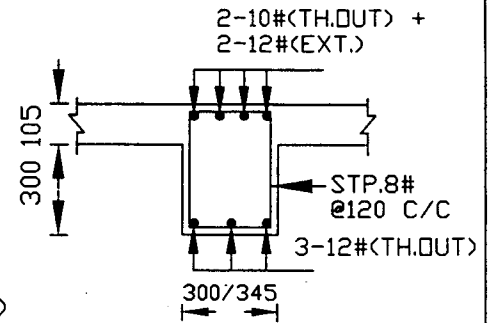
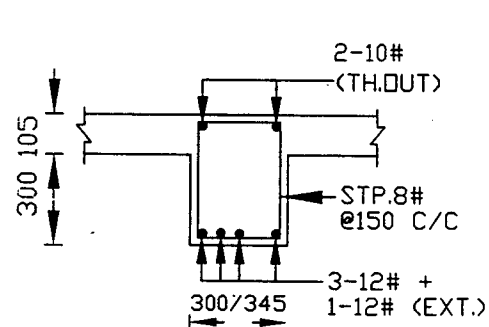
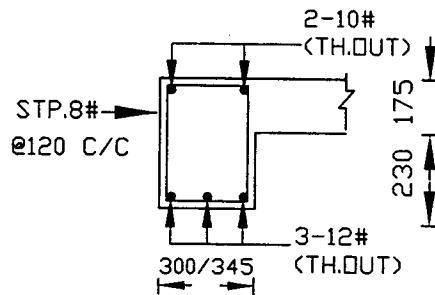
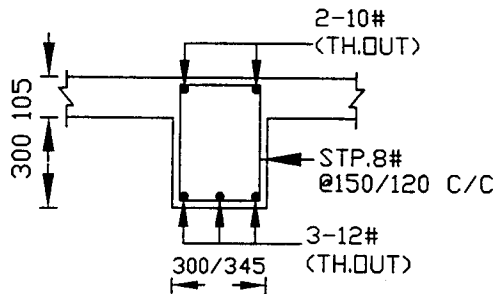
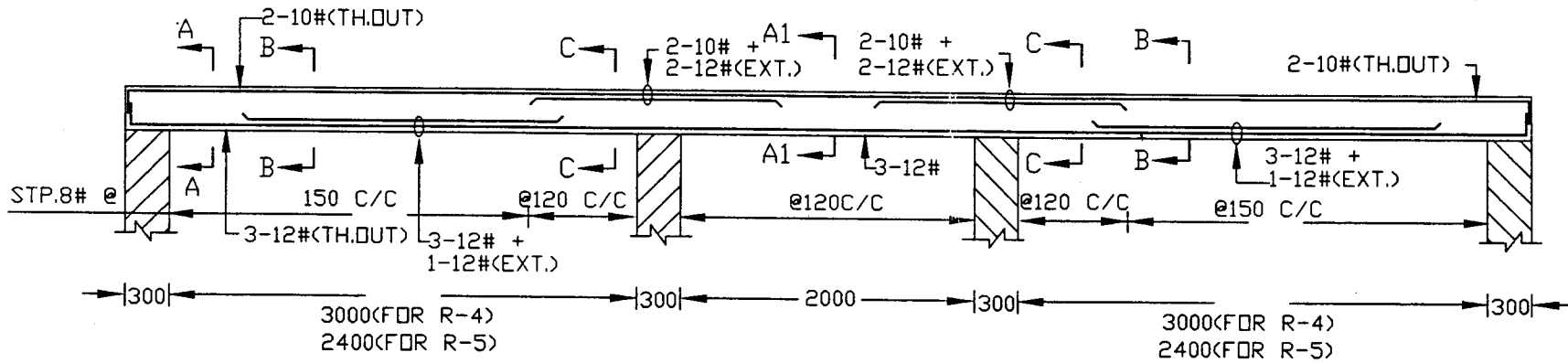
SECTION AT B-B

Chief Engineer (Civil)
R. B. V. P. N. L., JAIPUR

DETAIL FOR BEAM B2 (FOR BLOCK OF 2 QTRS.)

FOR R-4 AND R-5 TYPE QTRS.

R-4/R-5 QTR.
SHEET 3 OF 4



SECTION AT A-A

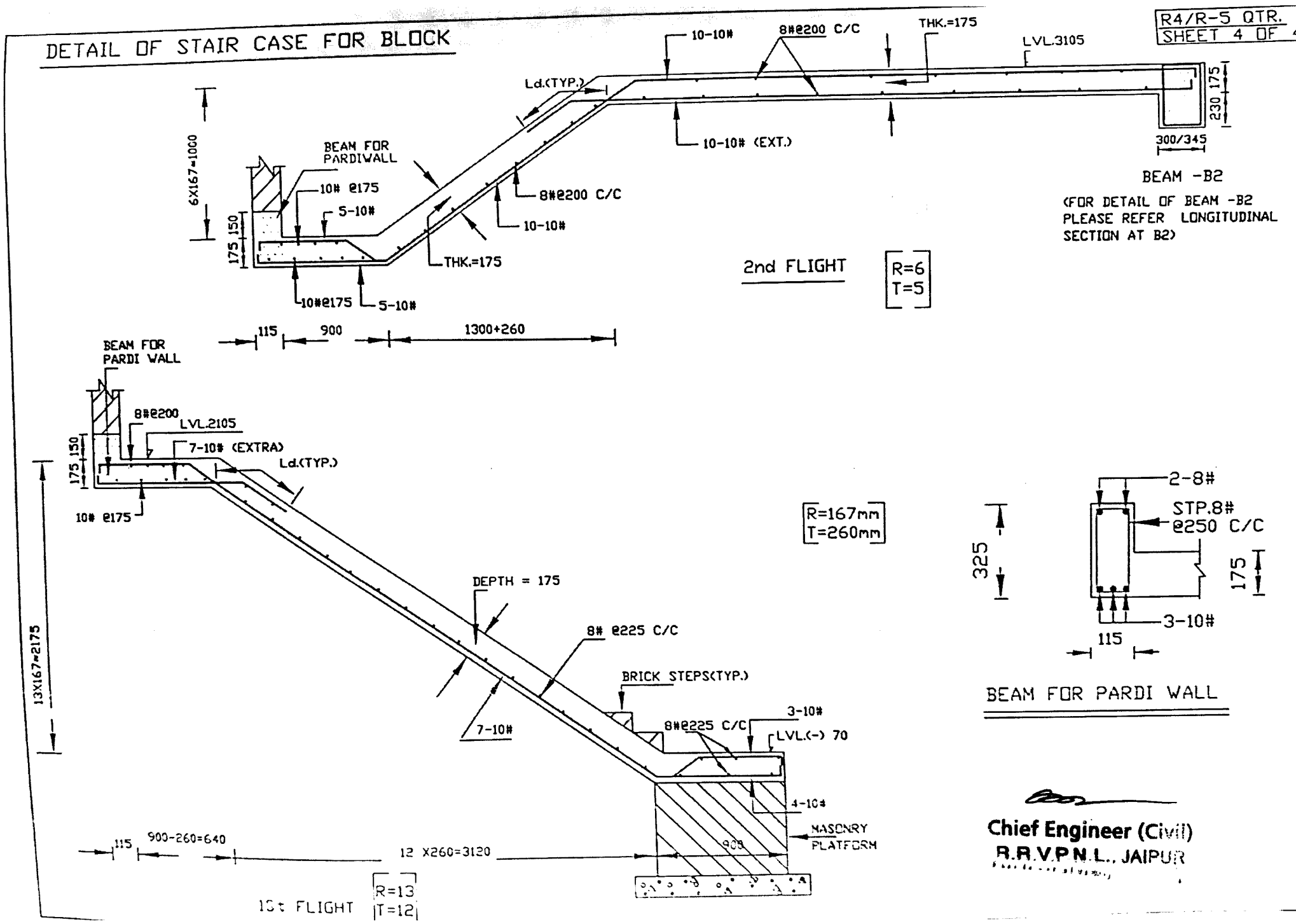
SECTION AT A1-A1

SECTION AT B-B

SECTION AT C-C

Chief Engineer (Civil)
DAVAO

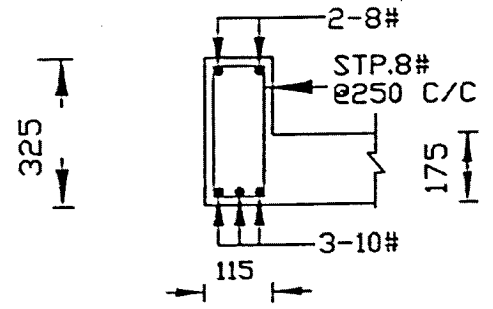
DETAIL OF STAIR CASE FOR BLOCK



BEAM -B2
(FOR DETAIL OF BEAM -B2
PLEASE REFER LONGITUDINAL
SECTION AT B2)

R=6
T=5

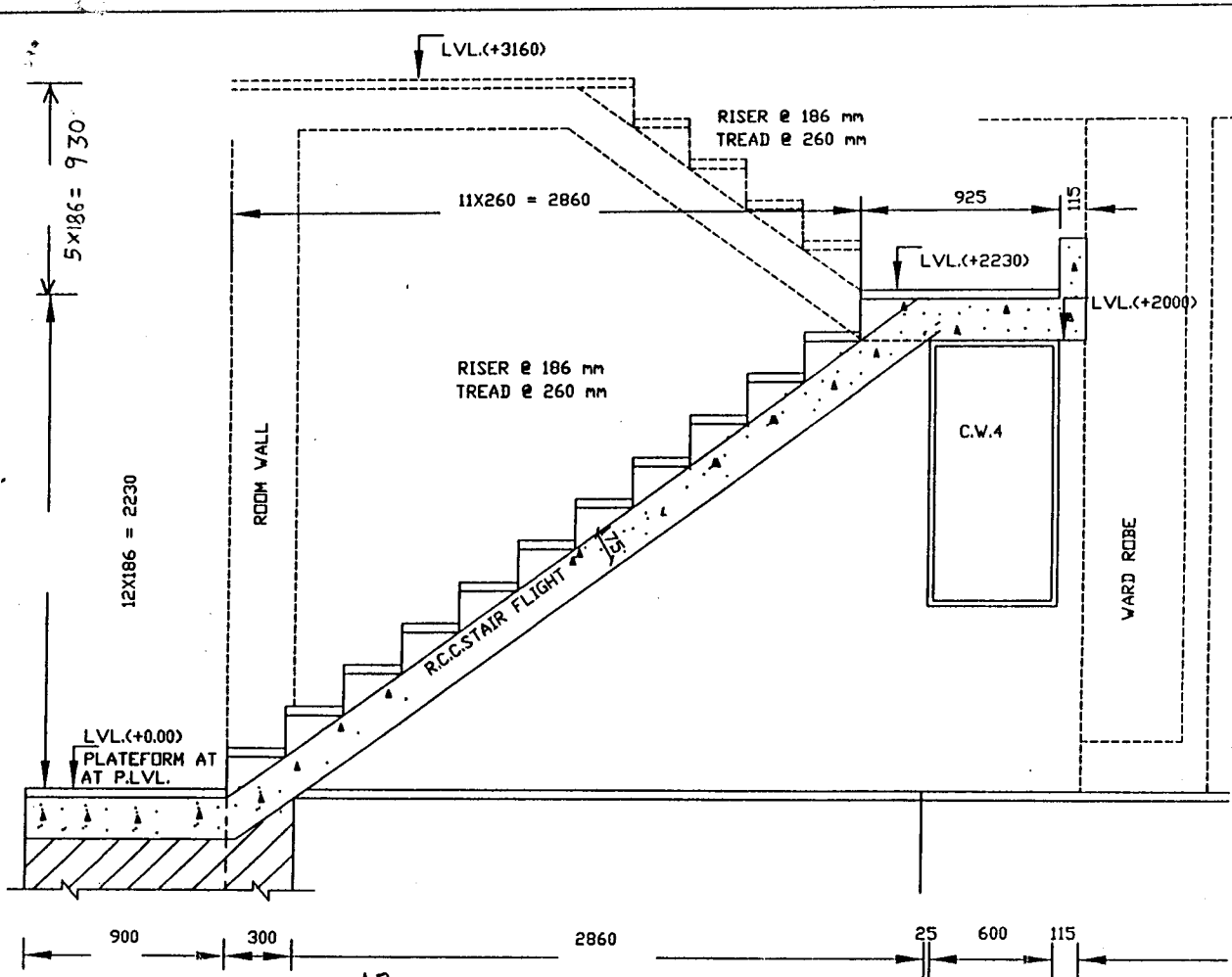
R=167mm
T=260mm



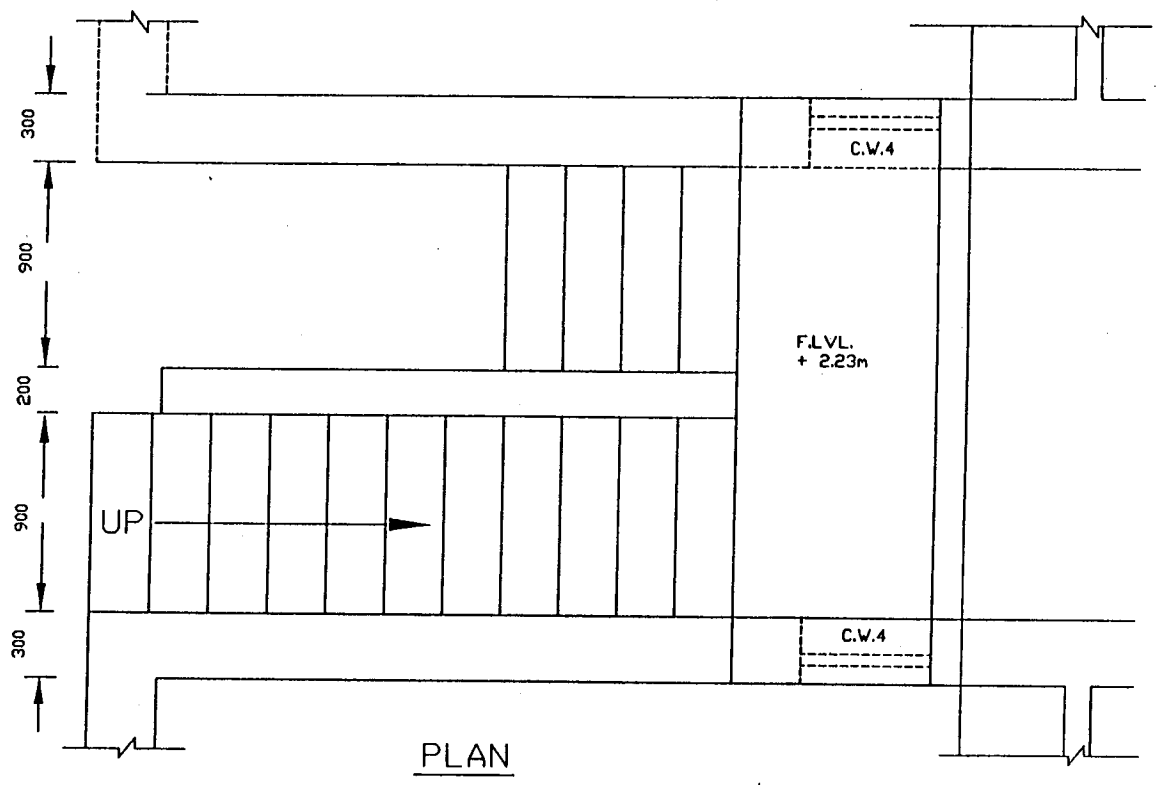
BEAM FOR PARDI WALL

Chief Engineer (Civil)
R.R.V.P.N.L., JAIPUR

Scanned by CamScanner

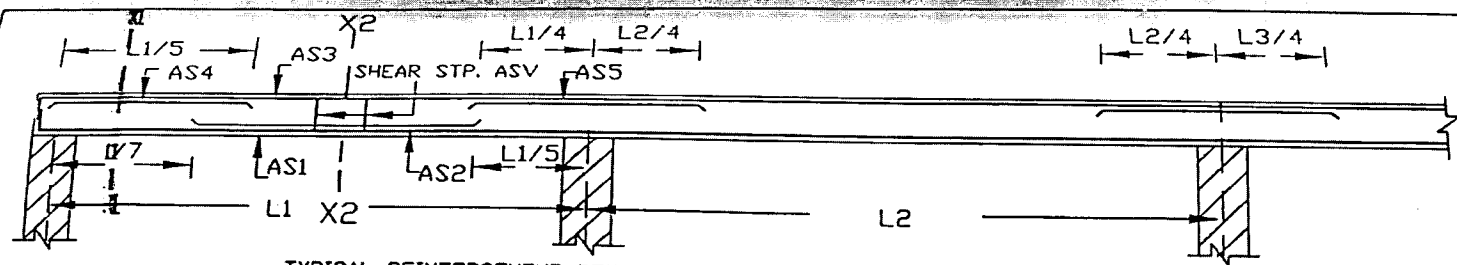


$13 \times 26 =$
 $13 \times 172 =$ ELEVATION

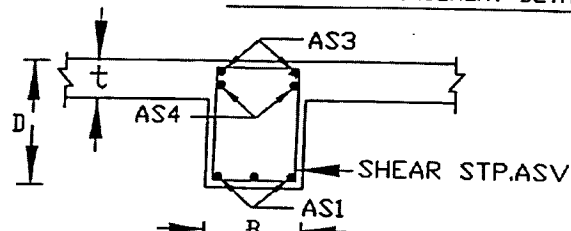


DETAILS OF STAIR CASE R-4 TYPE QTR.

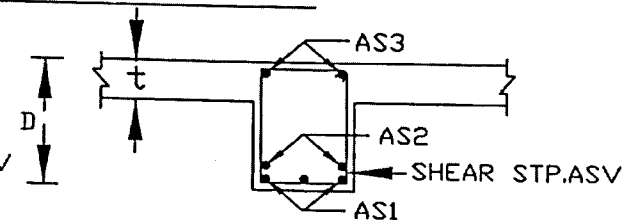
Chief Engineer (Civil)
 R.R.V.P.N.L., JAIPUR



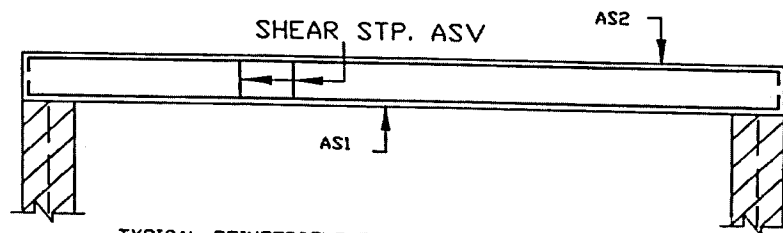
TYPICAL REINFORCEMENT DETAIL FOR CONTINUOUS BEAM



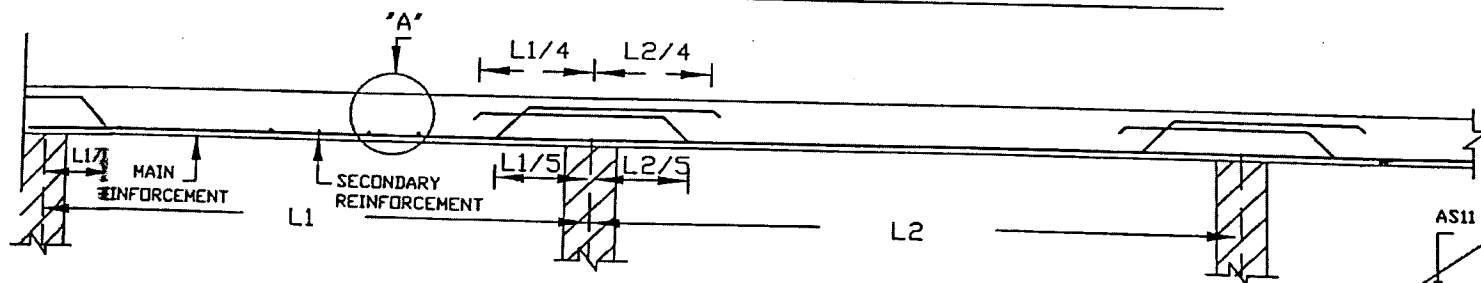
SECTIONAL DETAIL OF BEAM AT X1-X1



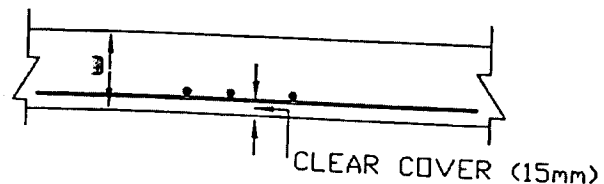
SECTIONAL DETAIL OF BEAM AT X2-X2



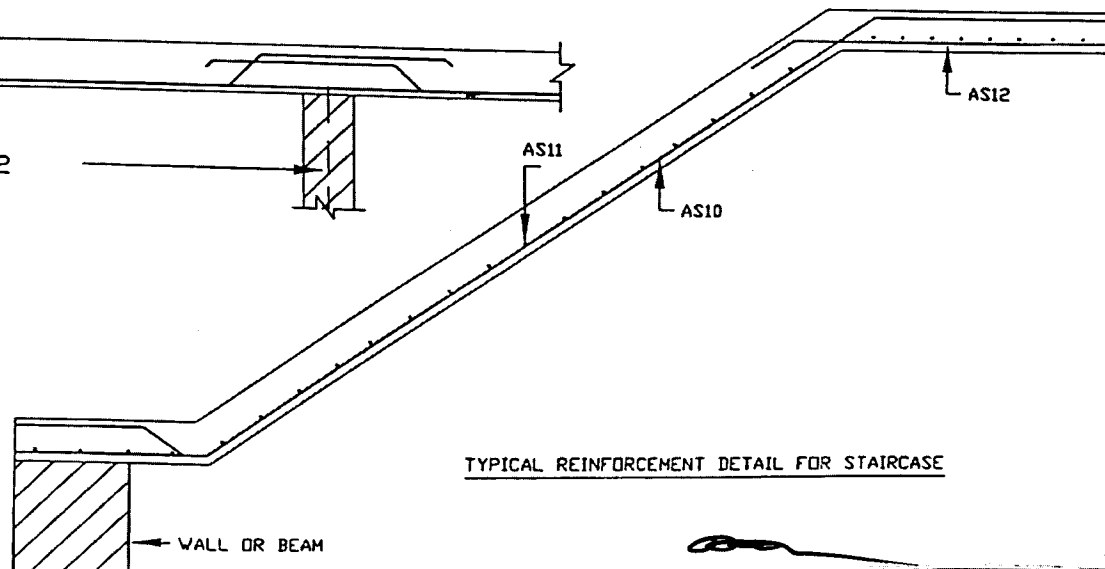
TYPICAL REINFORCEMENT DETAIL FOR SINGLE SPAN BEAM



TYPICAL REINFORCEMENT DETAIL FOR SLAB

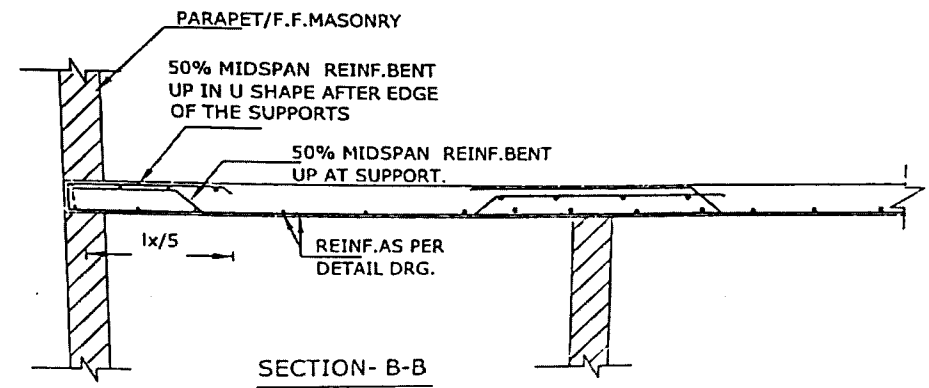
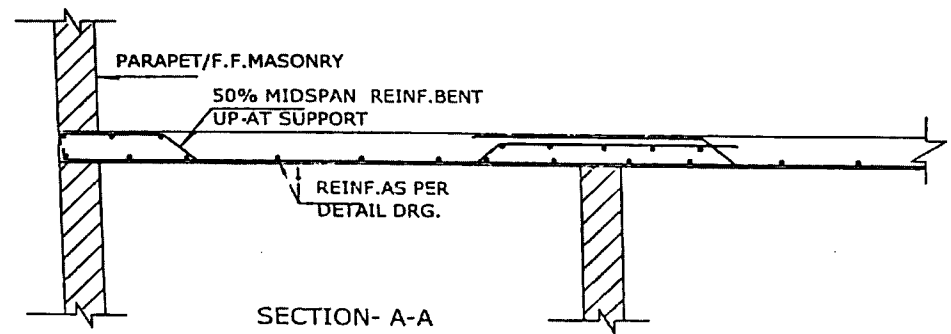
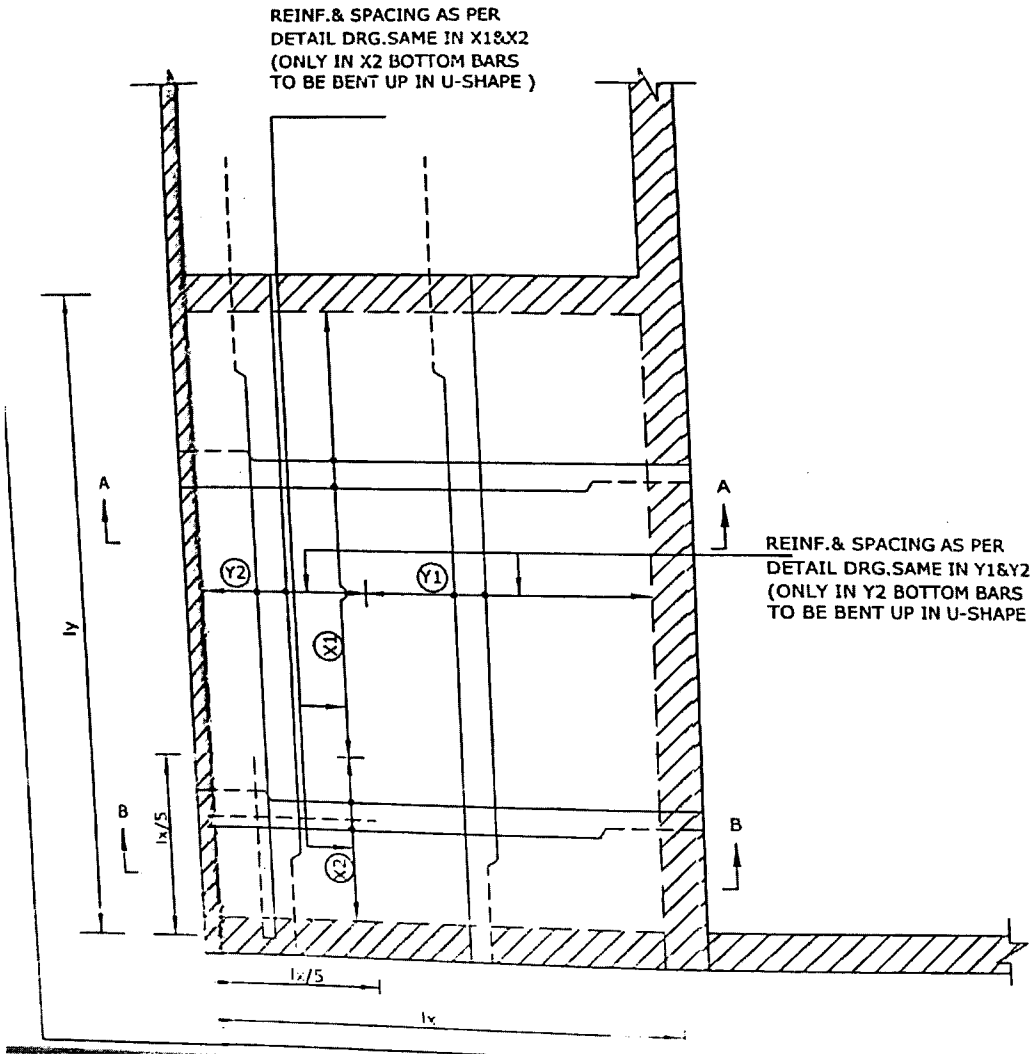


TYP. VIEW 'A' OF SLAB



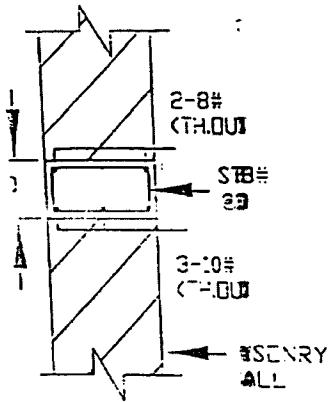
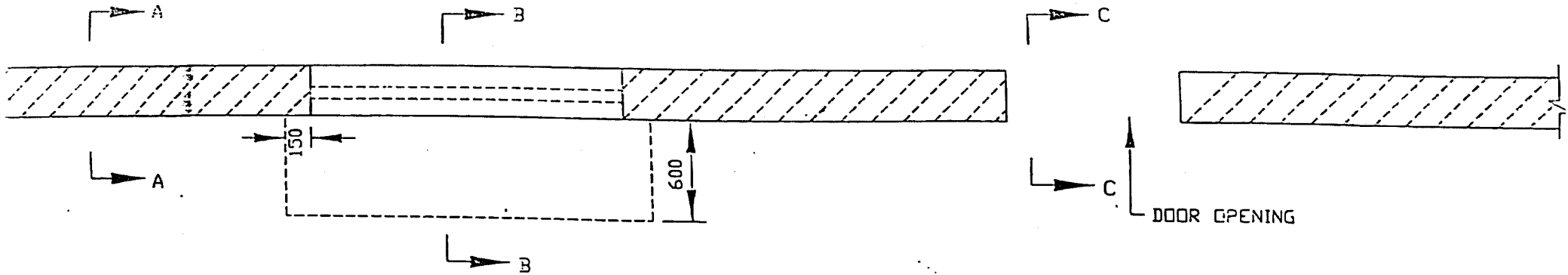
TYPICAL REINFORCEMENT DETAIL FOR STAIRCASE

TYPICAL CORNER REINF. FOR SLAB (R2 TO R-5 TYPE QTR.)
 (ASSUMING CORNERS ARE HELD DOWN/PREVENTED FROM LIFTING UP)

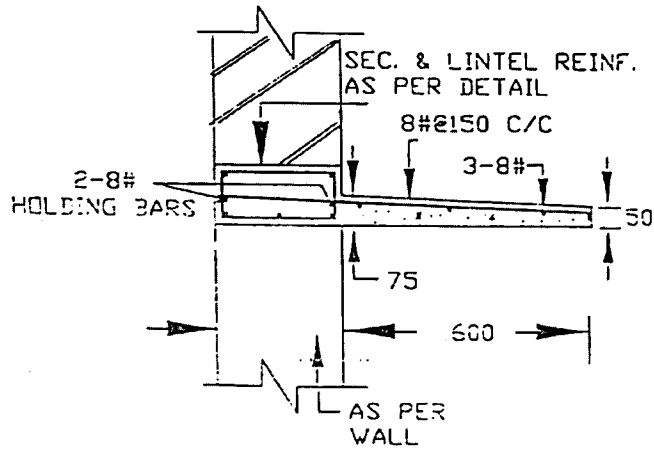


Chief Engineer (Civil)
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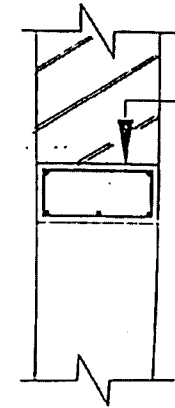
TYPICAL LINTEL DETAILS



SEC.-A-A



SEC.-B-B



SEC.-C-C

[Signature]
Chief Engineer (Civ'l)
R.R.V.P.N.L., JAIPUR

DESIGN STATEMENT OF LINTELS
(1) RESIDENTIAL BUILDINGS

LOCATION EXISTING DETAILS	S.NO	SPAN		DESIGNED DEPTH (CM)	REINFORCEMENT		SHEAR STIRRUPS	REMARKS
		CLEAR	EFFECTIVE		BOTTOM	TOP		
For b=300 (A) (Lintel provided with chajja.)	1.	1.80 M	2.10 M	20 Cm.	10 mm.# 5 Nos.	8 mm # 2 Nos.	8 mm # @ 300 mm. C/C (2 L)	Arch.action not possible for all span upto 1.05 M.
	2.	1.50 M	1.80 M	15 Cm.	10 mm.# 5 Nos.	8 mm # 2 Nos	-do-	
	3.	1.20 M	1.50 M	15 Cm	10 mm.# 3 Nos.	8 mm # 2 Nos	-do-	
	4.	1.05 M	1.35 M	15 Cm	10 mm.# 3 Nos.	8 mm # 2 Nos	-do-	
	5.	0.90 M	1.20 M	15 cm.	10 mm.# 3 Nos	8 mm # 2 Nos	-do-	Min.as per ring beam
	6.	0.60 M	0.90 M	15 cm.	10 mm.# 3 Nos	8 mm # 2 Nos	-do-	Min.as per ring beam
	7.	RING BEAM		15 cm.	10 mm.# 3 Nos	8 mm # 2 Nos	-do-	For all locations.

LOCATION EXISTING DETAILS	S.NO	SPAN		DESIGNED DEPTH (CM)	REINFORCEMENT		SHEAR STIRRUPS	REMARKS
		CLEAR	EFFECTIVE		BOTTOM	TOP		
For b=300 (B) (Lintel provided with chajja.)	1.	1.80 M	2.10 M	20 Cm.	10 mm.# 5 Nos.	8 mm # 2 Nos.	8 mm # @ 300 mm. C/C (2L)	Arch.action not possible for all span upto 1.05 M.
	2.	1.50 M	1.80 M	15 Cm.	10 mm.# 5 Nos.	8 mm # 2 Nos	-do-	
	3.	1.20 M	1.50 M	15 Cm	10 mm.# 4 Nos.	8 mm # 2 Nos	-do-	
	4.	1.05 M	1.35 M	15 Cm	10 mm.# 3 Nos.	8 mm # 2 Nos	-do-	
	5.	0.90 M	1.20 M	15 cm.	10 mm.# 3 Nos	8 mm # 2 Nos	-do-	Min.as per ring beam
	6.	0.60 M	0.90 M	15 cm.	10 mm.# 3 Nos	8 mm # 2 Nos	-do-	Min.as per ring beam
	7.	RING BEAM		15 cm.	10 mm.# 3 Nos	8 mm # 2 Nos	8 mm # @ 300 mm. C/C (2 L)	For all locations.

RC Details of Chajja:- Width = 600 mm. . thickness at support = 75 mm
thickness at free end = 50 mm.

Main reinforcement 8 mm # @ 150mm C/C(Top)

with development length embedded in lintel.

Temp and shrinkage reinforcement 8mm #(3 Nos.)

Chief Engineer (Civil)
R.R.V.P.N.L., JAIPUR

DESIGN STATEMENT OF LINTELS
(2) CONTROL ROOM BUILDING(FRAMED)

LOCATION WITH EXISTING DETAILS	S.NO	SPAN		DESIGNED DEPTH (CM)	RAEINFORCEMENT		SHEAR STIRRUPS	REMARKS
		CLEAR	EFFECTIVE		BOTTOM	TOP		
A) Hall portion b=300mm(Details for both condition with chajja & without chajja.)	1.	2.40 M	2.70 M	25 Cm.	10 mm.# 5 Nos.	8 mm # 2 Nos	8mm # @ 300mm C/C (2L)	Framed structure(details same for lintels with Chajja or without chajja)
	2.	1.80 M	2.10 M	20 Cm.	10 mm.# 3 Nos.	8 mm # 2 Nos	-do-	-do-
	3.	1.20 M	1.50 M	15 Cm	10 mm.# 3 Nos.	8 mm # 2 Nos	-do-	-do-
	4.	RING BEAM		15 Cm	10 mm.# 3 Nos.	8 mm # 2 Nos	-do-	-do-
B) Administrative block. b=300 mm (Details for both condition with chajja and without chajja)	1.	2.40 M	2.70 M	25 Cm.	10 mm.# 5 Nos.	8 mm # 2 Nos	8mm # @ 300mm C/C (2L)	Framed structure(details same for lintels with Chajja or without chajja)
	2.	1.80 M	2.10 M	20 Cm.	10 mm.# 3 Nos.	8 mm # 2 Nos	-do-	-do-
	3.	1.50 M	1.80 M	15 Cm	10 mm.# 3 Nos.	8 mm # 2 Nos	-do-	-do-
	4.	1.20 M	1.50 M	15 Cm	10 mm.# 3 Nos.	8 mm # 2 Nos	-do-	-do-
	5.	RING BEAM		15 Cm	10 mm.# 3 Nos.	8 mm # 2 Nos	-do-	-do-

R.C.C. Details of Chajja:- Width = 600 mm. . thickness at support = 75 mm
thickness at free end = 50 mm.

Main reinforcement 8 mm # @ 150mm C/C(Top)
with development length embedded in lintel.

Temp and shrinkage reinforcement 8mm# (3Nos.)


 Chief Engineer (Civil)
 R.A.V.P.O.L., ...