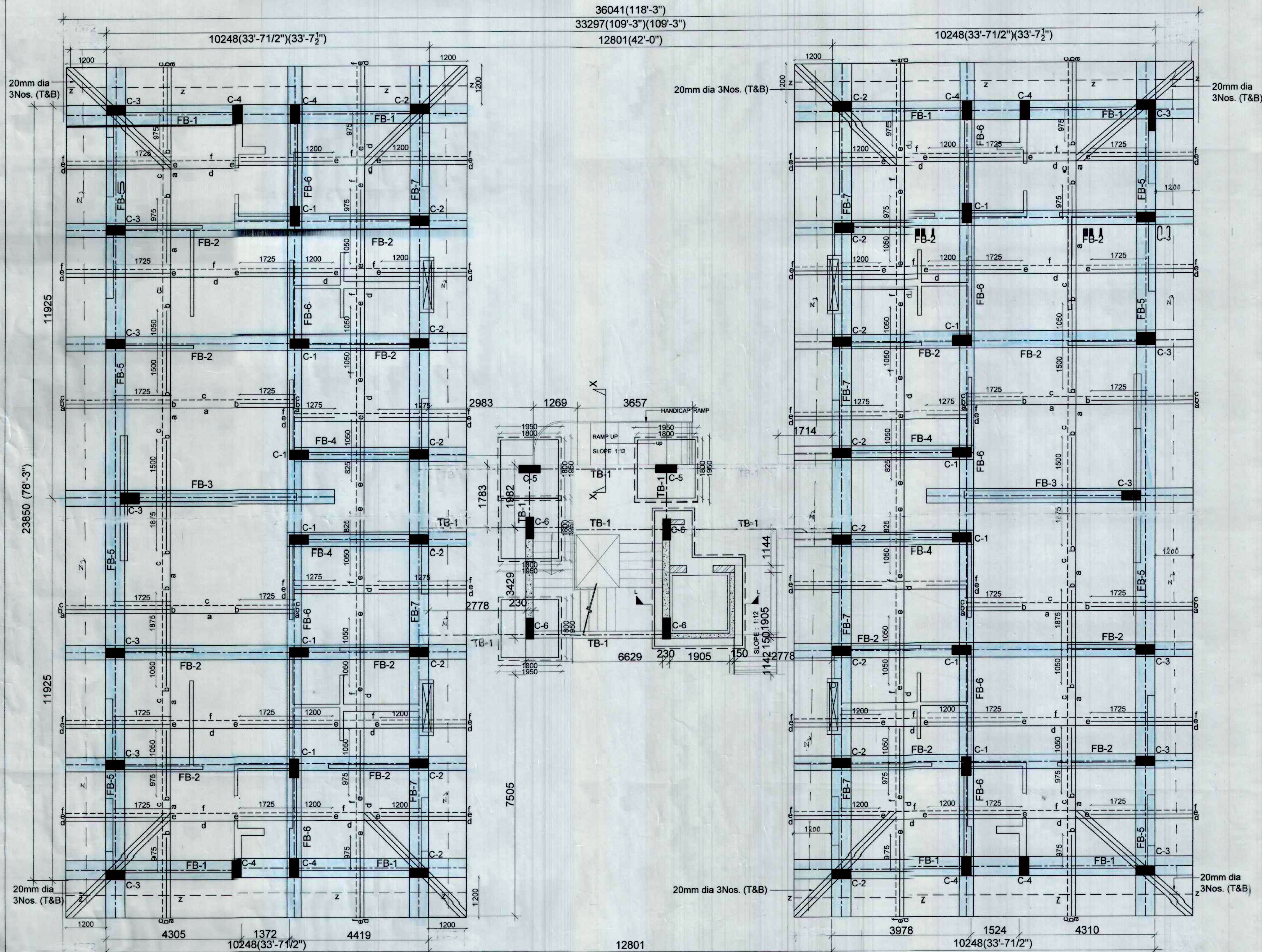


36041(118'-3")
33297(109'-3") (109'-3")
12801(42'-0")



FOUNDATION & EXCAVATION KEY PLAN

NOTES

- DIMENSIONS ARE TO BE READ NOT TO BE SCALED
- CONTRACTOR IS TO CHECK ALL DIMENSIONS BEFORE EXECUTION OF WORK
- 3/4 INDICATES THE DIA OF HYSD BARS OF GRADE Fe415 REFER TO IS: 1786, 1979
- FOR CENTER LINE DIMENSION REFER ARCH.DRG.
- NOT MORE THAN 50% BARS ARE TO BE LAPPED AT ONE LOCATION
- LAP LENGTH / ANCHORAGE LENGTH
58d IN CASE OF FOUNDATION, BEAM & SLAB
45d IN CASE OF COLUMNS, WHERE 'd' IS DIA OF BARS
- CLEAR COVER TO REINF.:
(i) FOUNDATION = 60mm
(ii) BEAM = 30mm
(iii) COLUMN = 40mm
(iv) SLAB = 25mm
- EXTRA BARS TO BE EXTEND 0.3L ON EITHER SIDE OF SUPPORTING BEAM OR COLUMN.
- CONC. USED IS M-25
- SAFE BEARING CAPACITY OF SOIL 13.5 t/m² FOR RCC COLUMNS & 12.5 t/m² FOR BRICK MASONRY WALLS.
- CEMENT MORTAR USED IN BRICK MASONRY WALLS:-
(a) FOR 230MM THK IS CM 1:6
(b) FOR 115MM THK IS CM 1:4

DETAIL OF STEEL REINFORCEMENT

- SLAB THICKNESS = 300 MM THK.
- CONC. USED = M20

SCHEDULE OF BARS	FACE
a = 12 mm dia. @ 200mm c/c.	(B)
b = 16 mm dia. @ 200mm c/c.	(B)
c = 16 mm dia. @ 100mm c/c.	(T)
d = 12 mm dia. @ 400mm c/c.	(B)
e = 16mm dia. @ 400mm c/c.	(B)
f = 12 mm dia. @ 200mm c/c.	(T)
Distt. Bars:	
z = 10 mm dia @ 200mm c/c.	(T&B)

NOTE:

B Bottom
C Top

CONSULTANTS:

SYAL & ASSOCIATES

(Chartered Engineers, Architects, Surveyors & Land Planners)
F-91, PHASE VII,
INDUSTRIAL AREA,
MOHALI (Pb) PH 0172-2236219

CLIENT:-

PROJECT:-

**THREE BED ROOM
HOUSING SCHEME FOR
SECTOR-63, CHANDIGARH
(SIX STOREYED)
(G+5)**

REVISION:

STRUCTURE

FOUNDATION EXCAVATION KEY PLAN

STRUCTURAL CONSULTANT: Dr. I. C. Syal

SIGNATURE & STAMP:

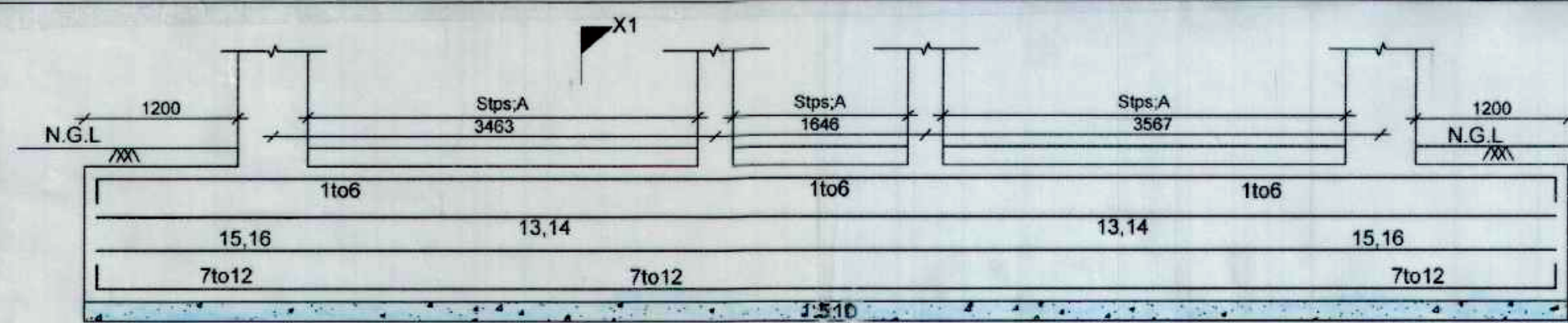
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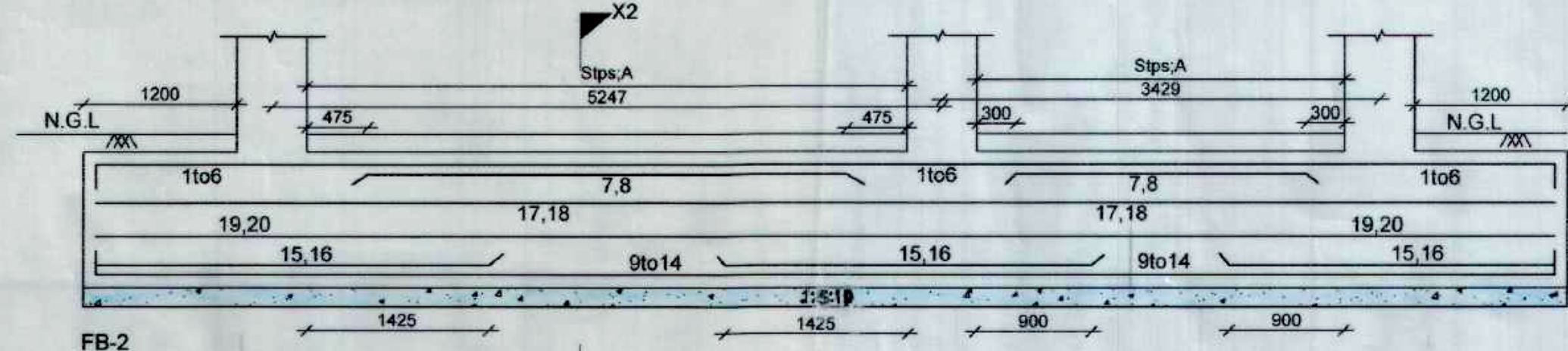
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DRG. NO.: S-301A

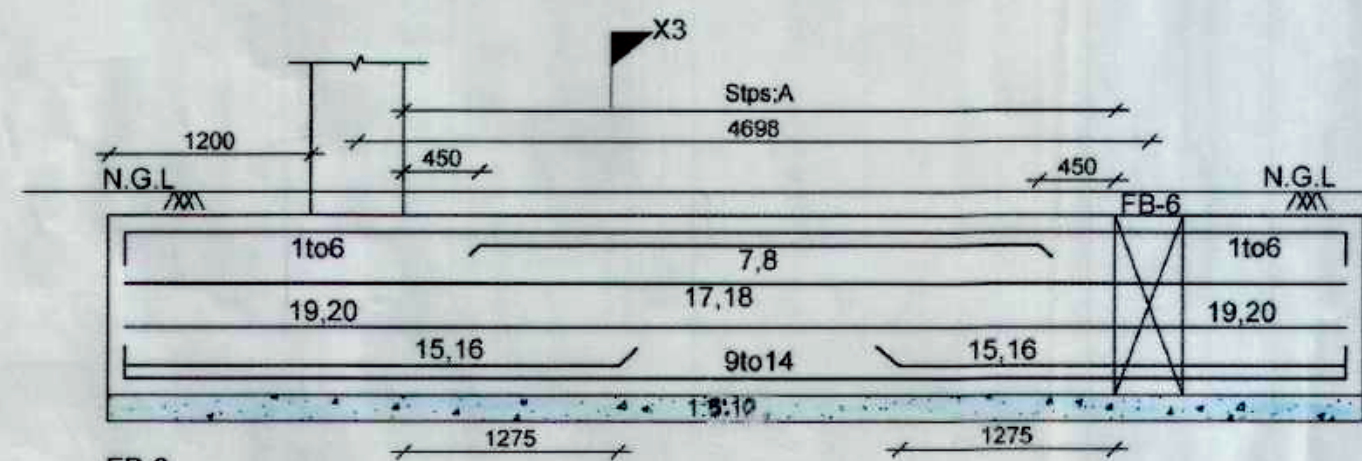
Dr. I. C. Syal, JDB No. 140



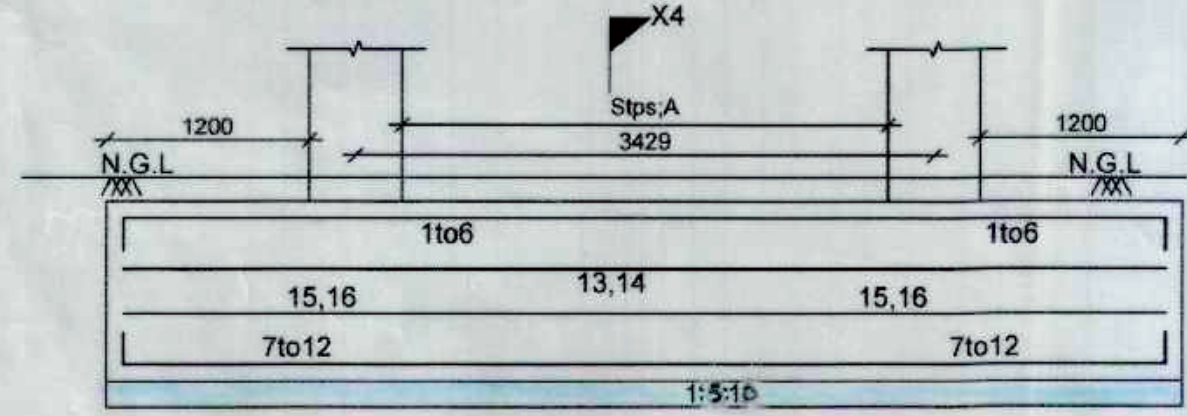
FB-1
Bars: 1to12=20mm dia.
13 to 16=16mm dia.
Stps:A=10mm dia 4L @ 150mm c/c.



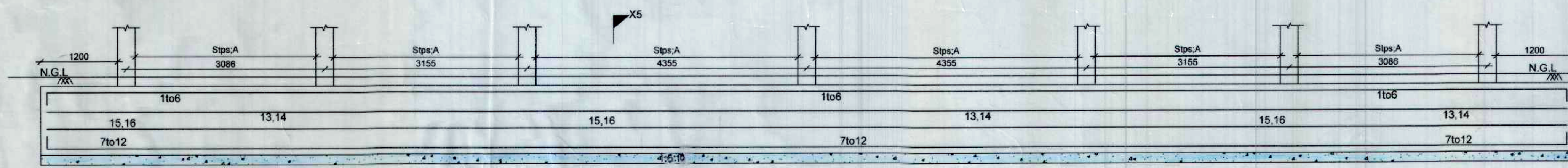
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17 to 20=16mm dia.
Stps:A=10mm dia 4L @ 150mm c/c.



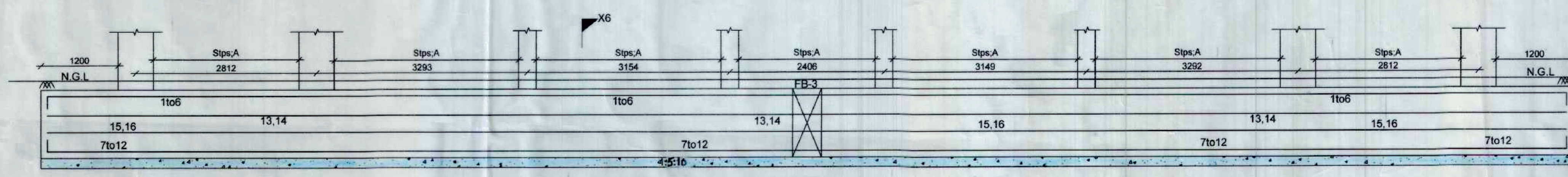
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Bars: 1to6=20mm dia.
17 to 20=16mm dia.
Stps:A=10mm dia 4L @ 150mm c/c.



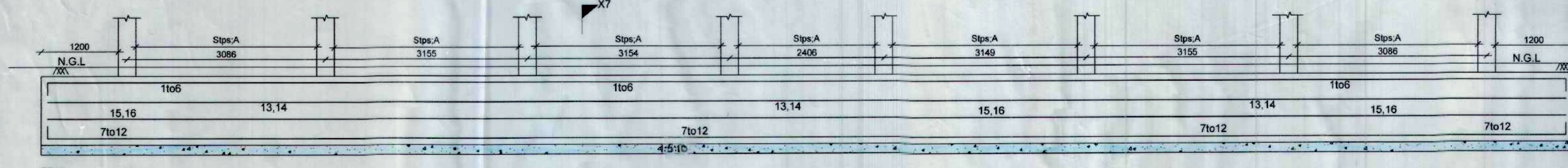
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Bars: 1to6=16mm dia.
13 to 16=16mm dia.
Stps:A=10mm dia 4L @ 150mm c/c.



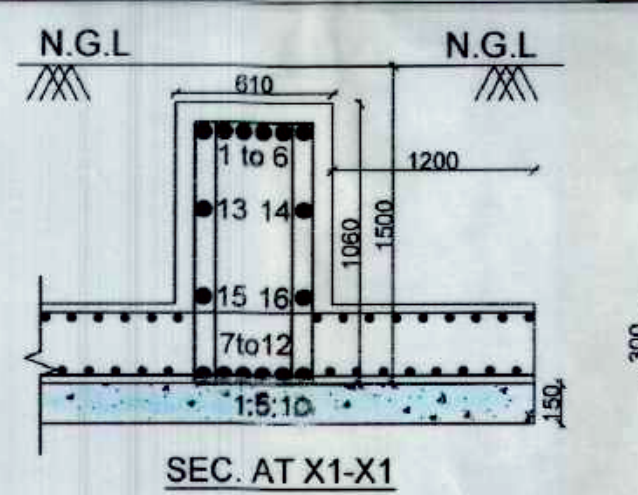
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Bars: 1to12=20mm dia.
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Stps:A=10mm dia 4L @ 150mm c/c.



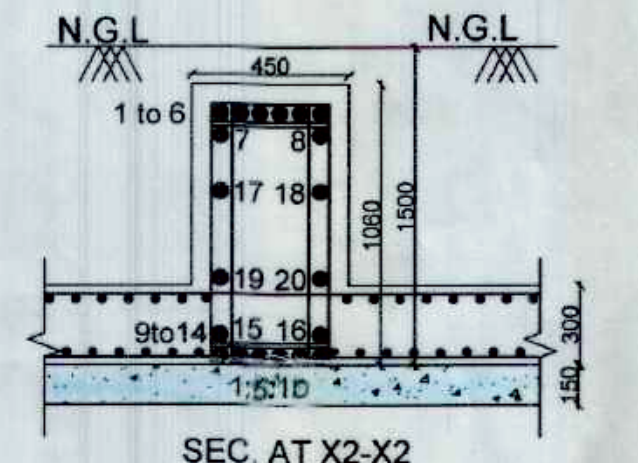
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13 to 16=16mm dia.
Stps:A=10mm dia 4L @ 150mm c/c.



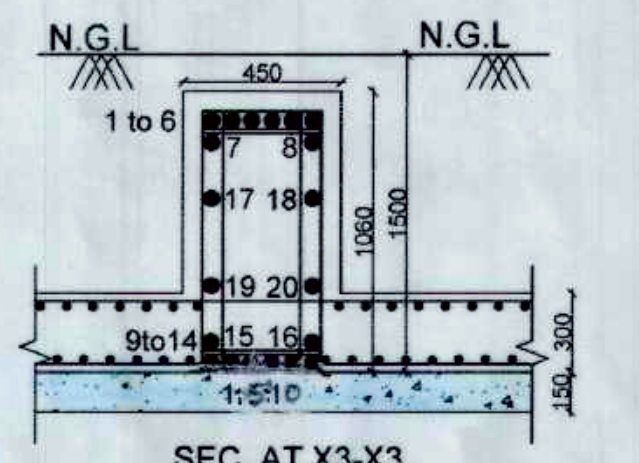
FB-7
Bars: 1to12=20mm dia.
13 to 16=16mm dia.
Stps:A=10mm dia 4L @ 150mm c/c.



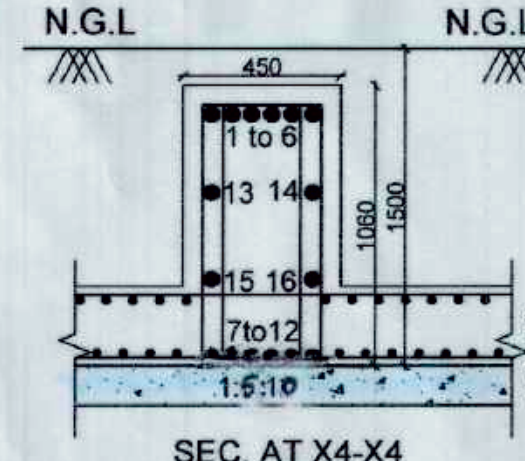
SEC. AT X1-X1



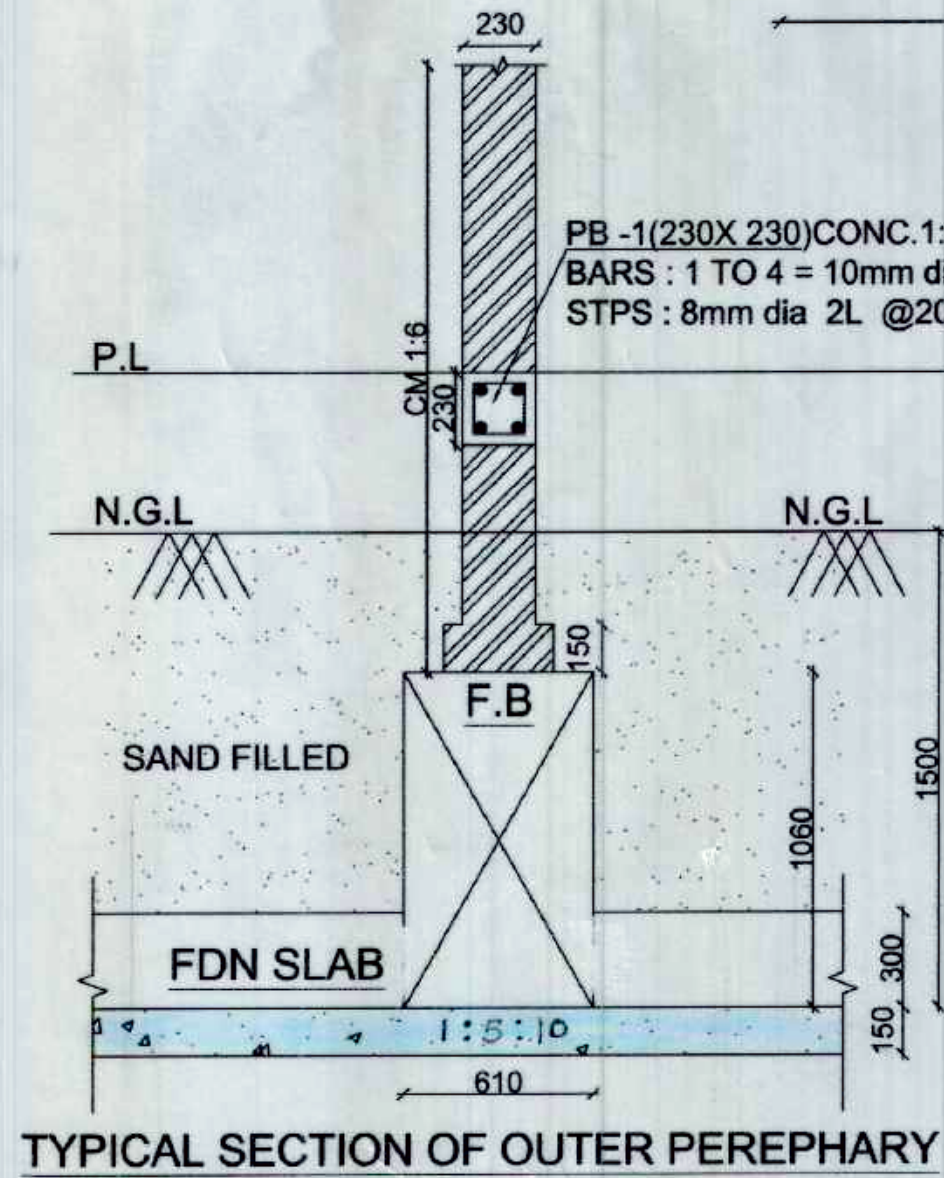
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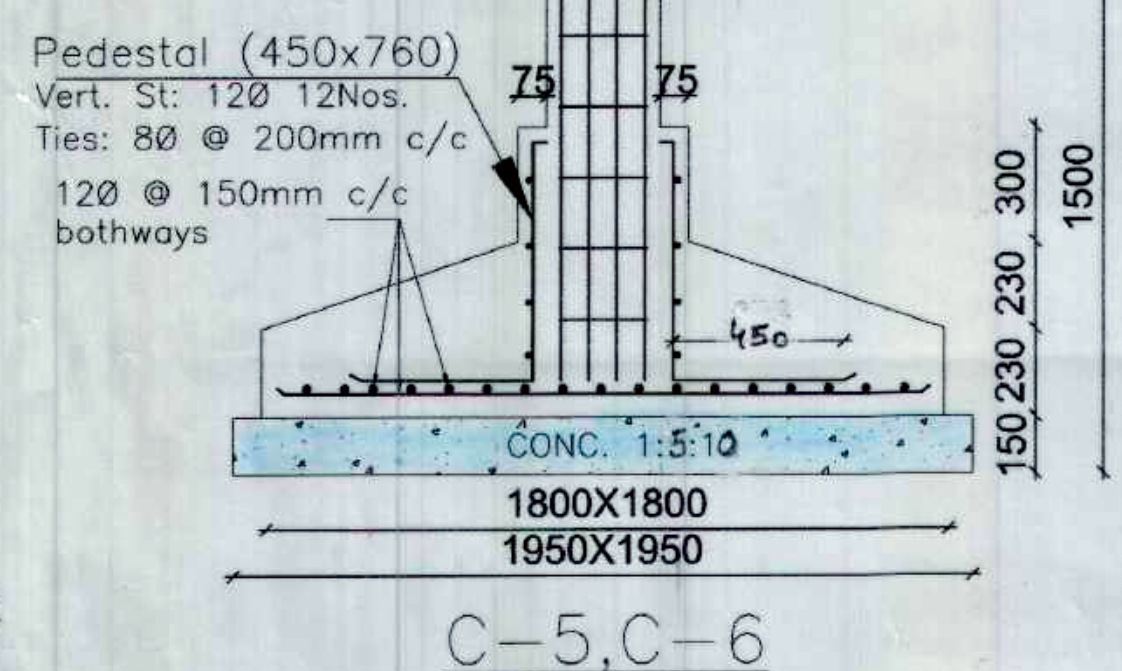
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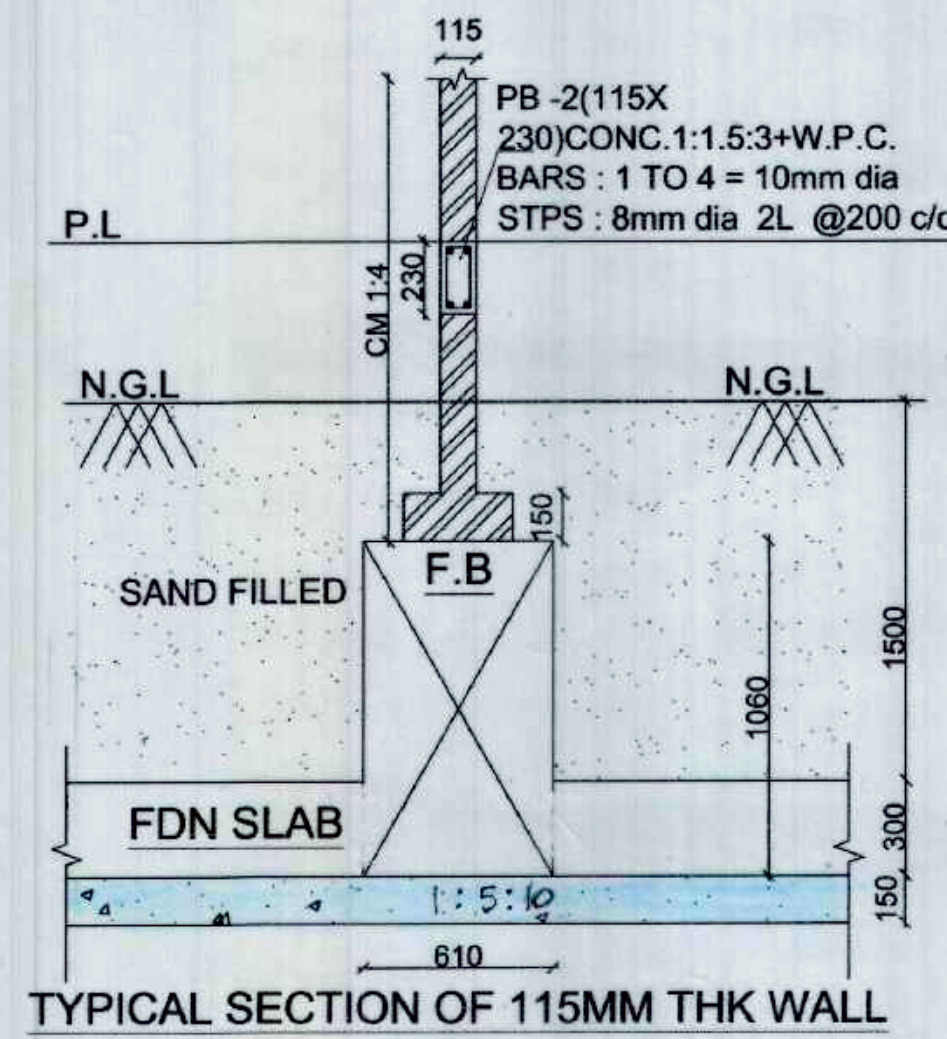
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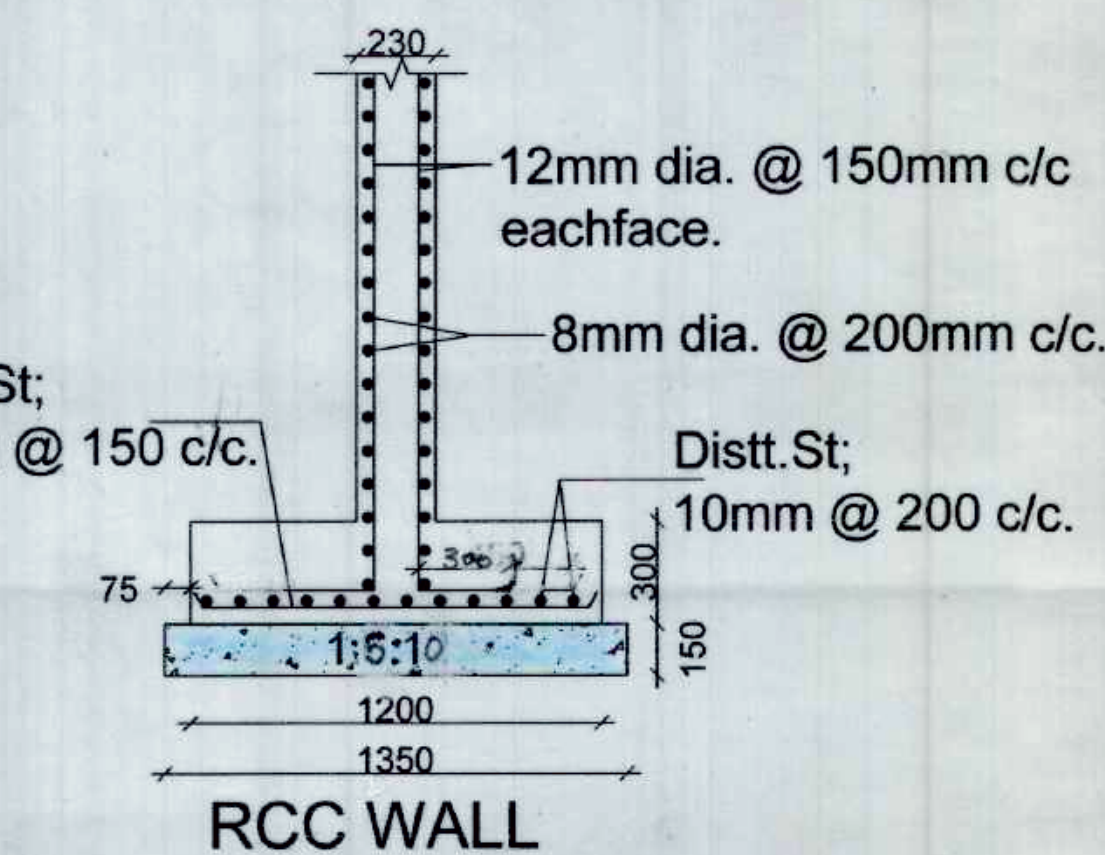
TYPICAL SECTION OF OUTER PEREPHARY



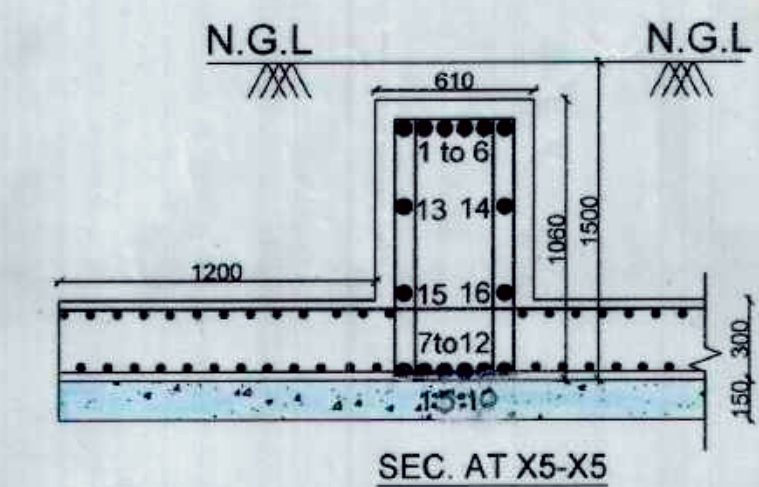
C-5, C-6



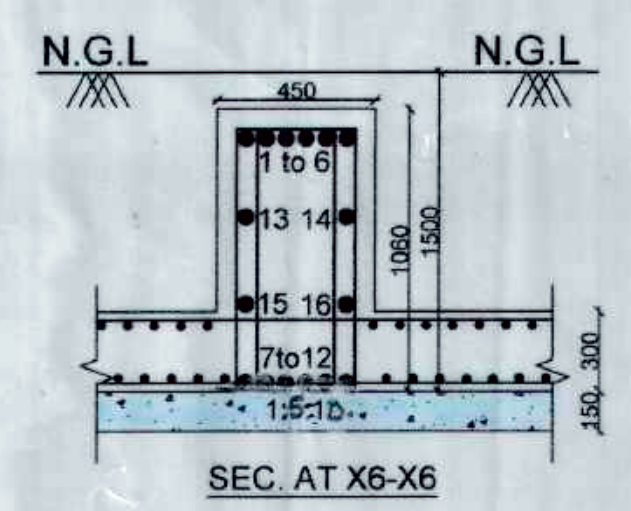
TYPICAL SECTION OF 115MM THK WALL



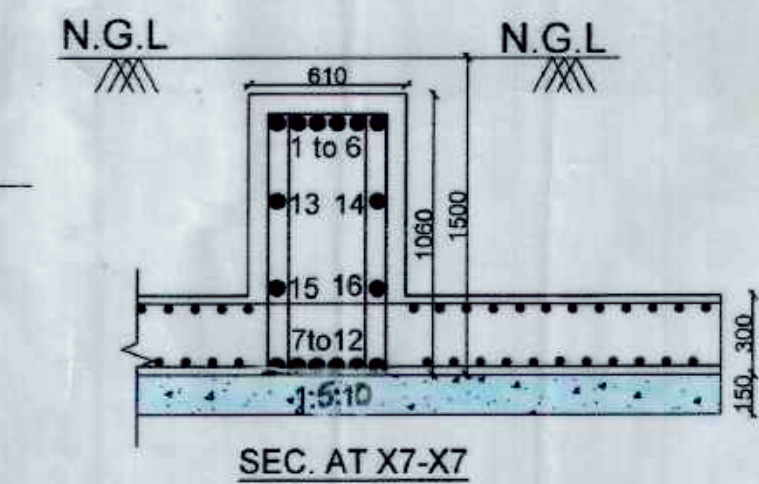
RCC WALL



SEC. AT X5-X5



SEC. AT X6-X6



SEC. AT X7-X7

NOTES

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(iv) SLAB = 25mm
- EXTRA BARS TO BE EXTEND 0.3L ON EITHER SIDE OF SUPPORTING BEAM OR COLUMN.
- CONC. USED IS M-25
- SAFE BEARING CAPACITY OF SOIL IS 13.5 t/m² FOR RCC COLUMN & 12.5 t/m² FOR BRICK MASONRY WALL.
- CEMENT MORTAR USED IN BRICK MASONRY WALLS:-
(a) FOR 230MM THICK IS CM 1:6
(b) FOR 115MM THICK IS CM 1:4

CONSULTANTS:
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(Chartered Engineers,Architects,Surveyors & Land Planners)
F-91, PHASE VII,
INDUSTRIAL AREA,
MOHALI.(Pb) PH 0172-2236219

CLIENT:-

PROJECT:-
**THREE BED ROOM
HOUSING SCHEME FOR
SECTOR-63, CHANDIGARH
(SIX STOREYED)
(G+5)**

REVISION:		

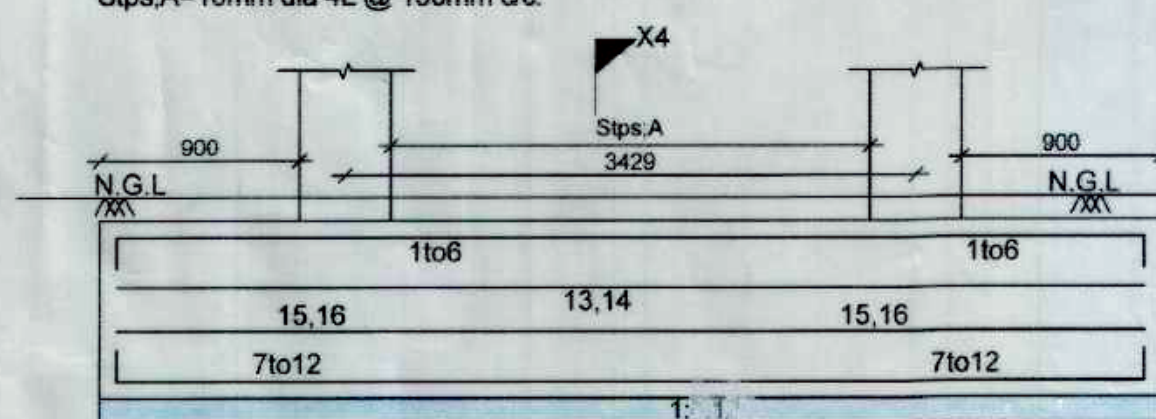
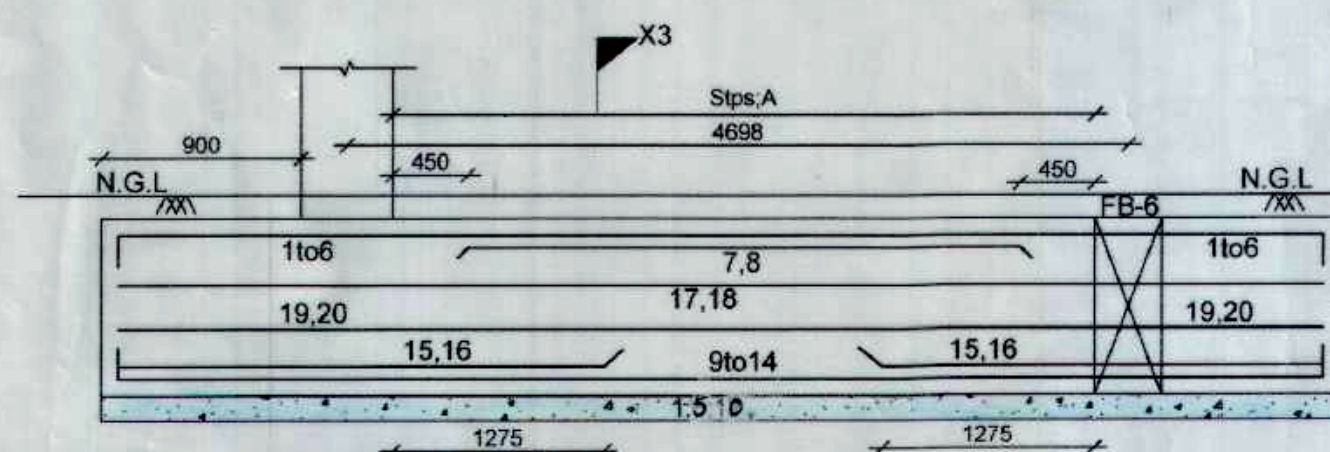
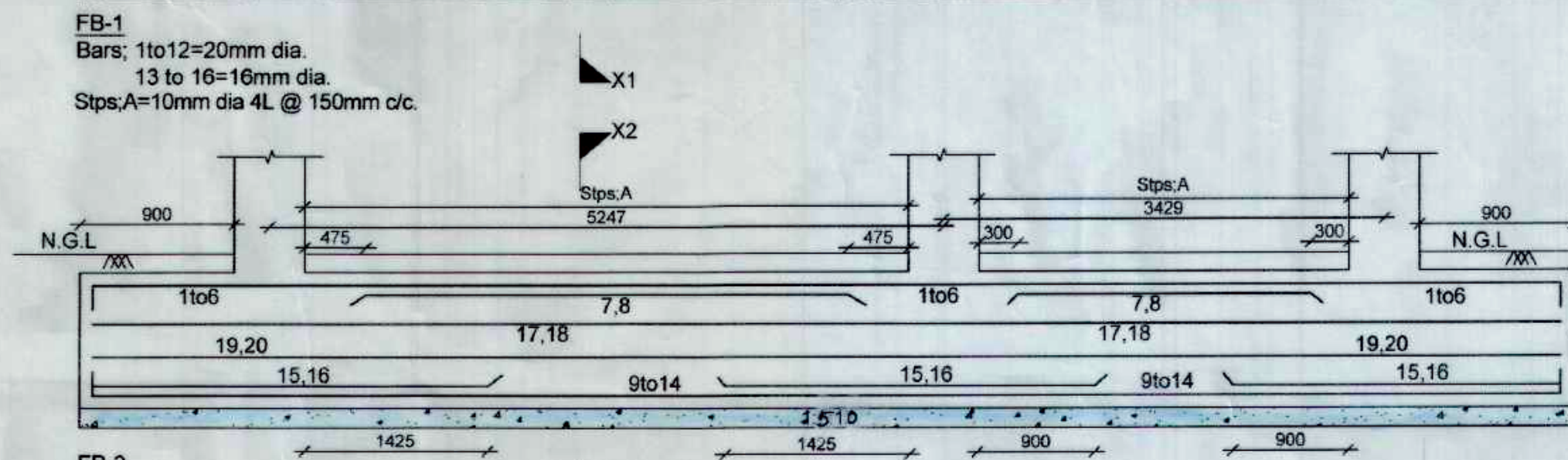
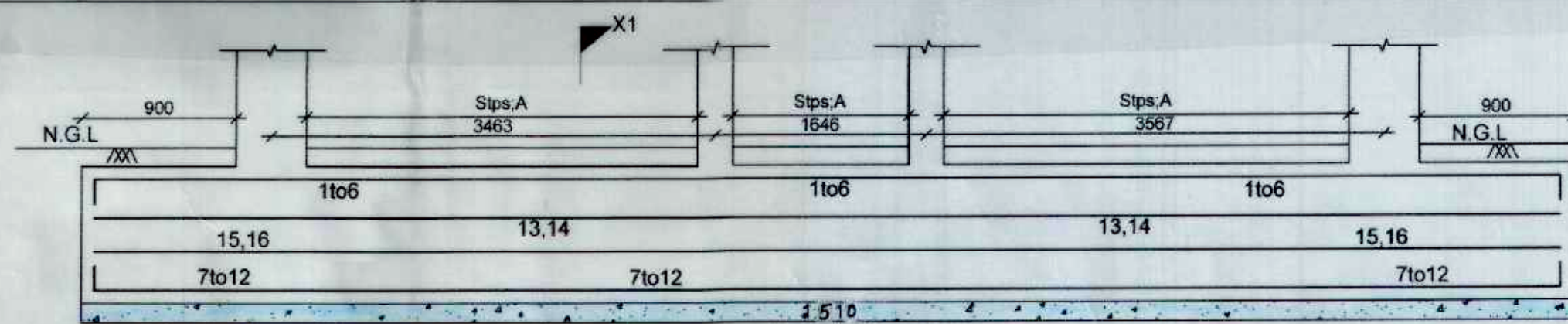
S T R U C T U R E

FOUNDATION BEAMS DETAILS

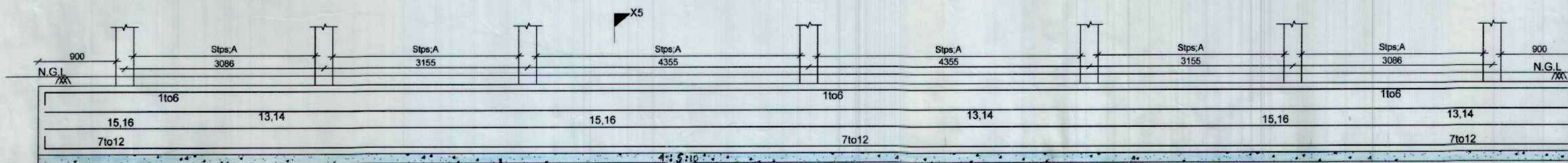
STRUCTURAL CONSULTANT: Dr. I. C. Syal
SIGNATURE & STAMP:

DRAWN BY :	ESHA
SCALE :	N.T.S.
DATE :	06-07-2009
DRG. NO. :	S-302A

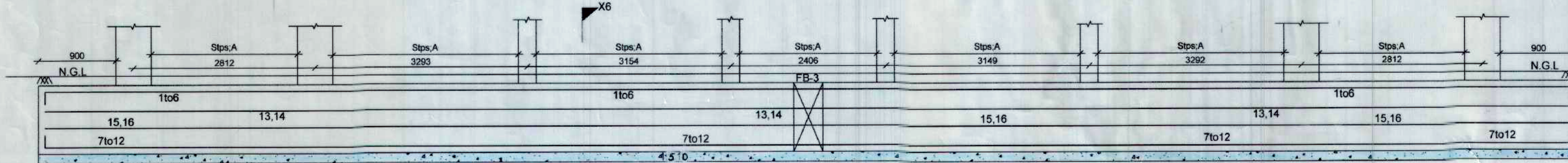
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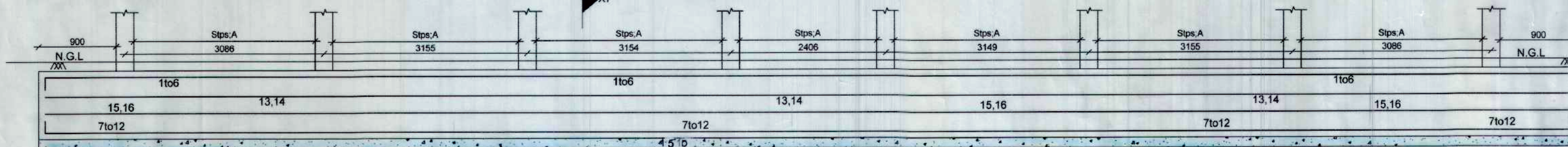
FB-4
Bars: 1to16=16mm dia.
Stps:A=10mm dia 4L @ 150mm c/c.



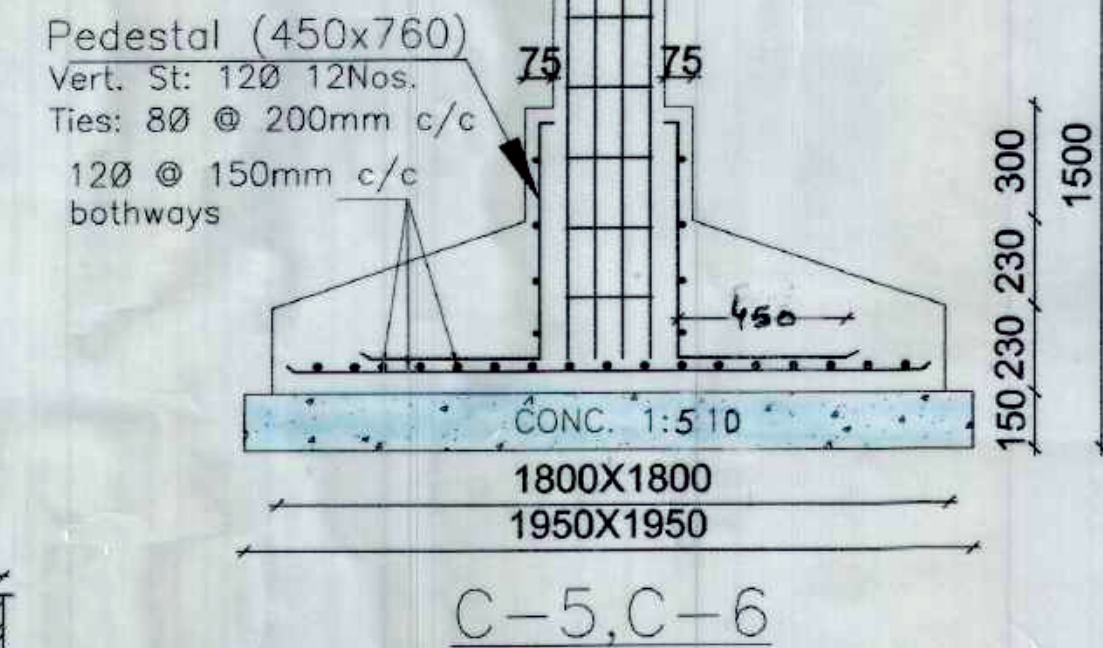
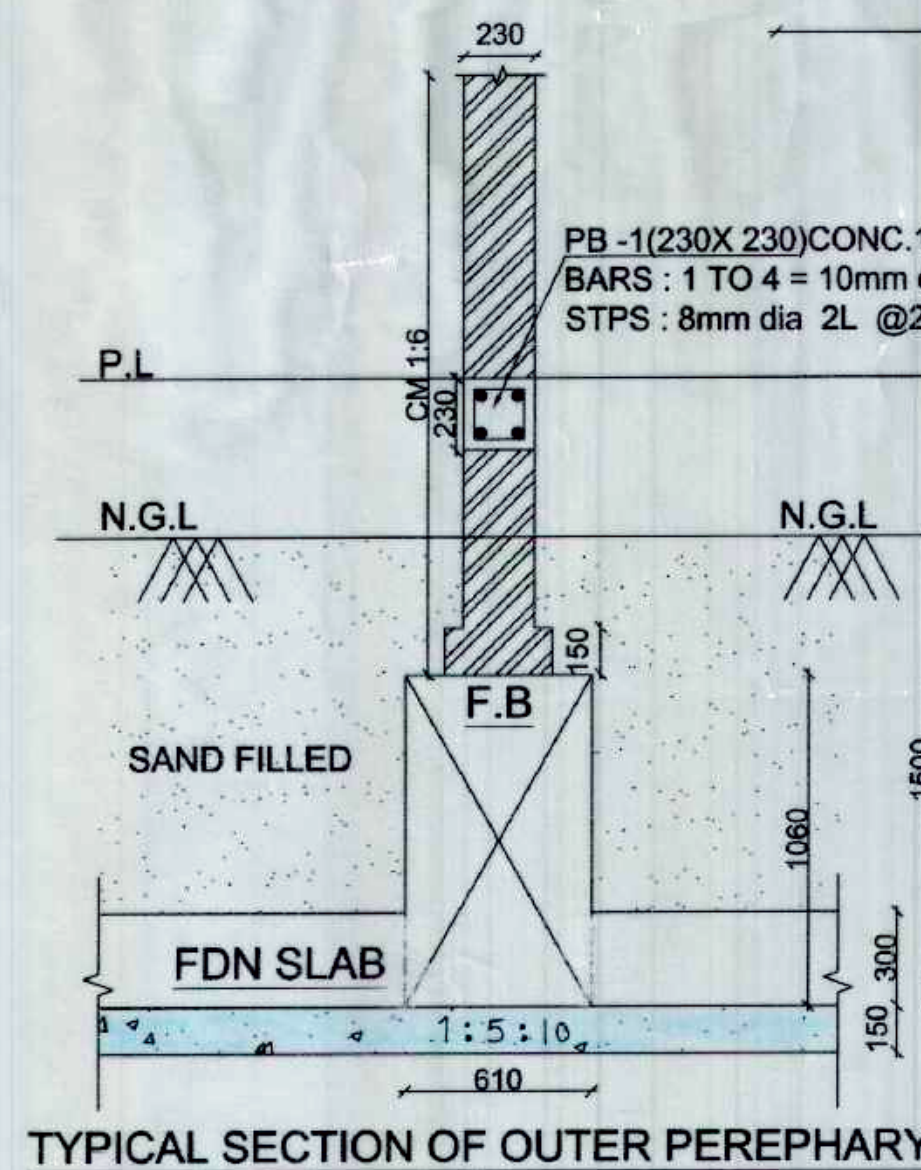
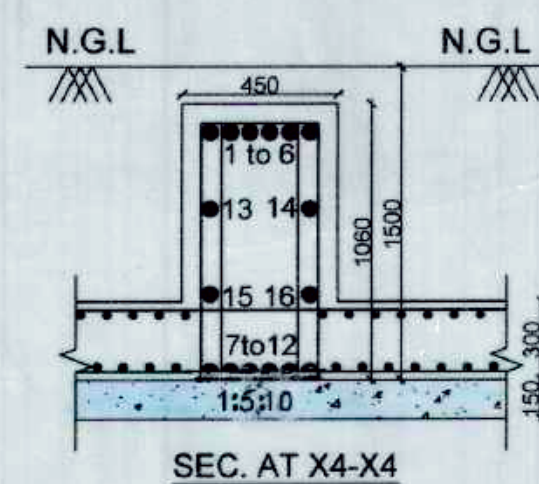
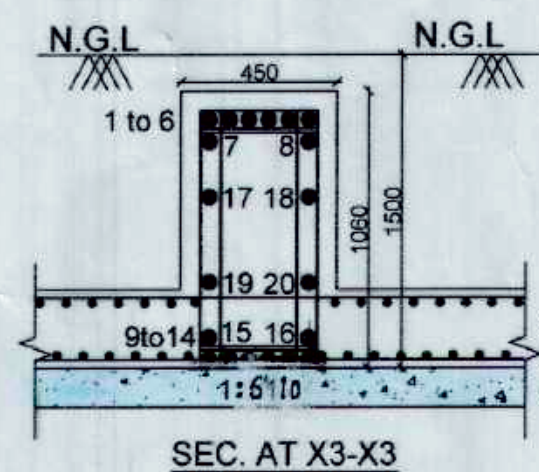
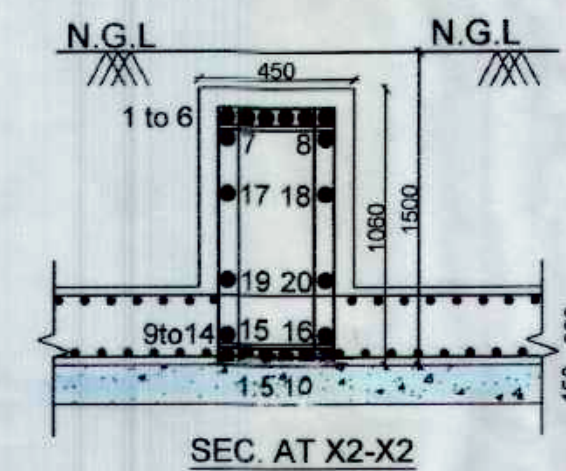
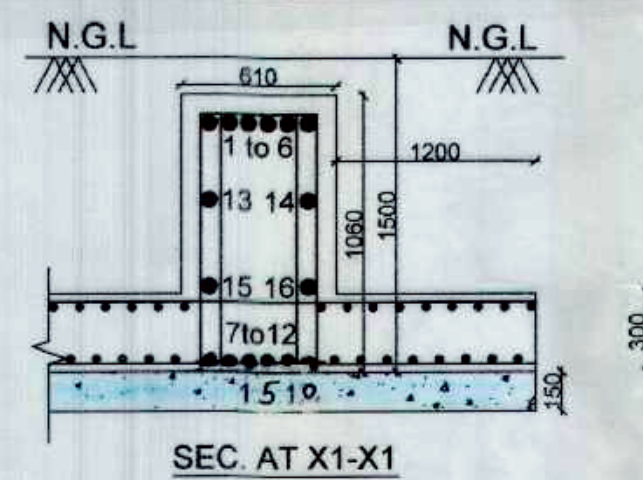
FB-5
Bars: 1to12=20mm dia.
13 to 16=16mm dia.
Stps:A=10mm dia 4L @ 150mm c/c.



FB-6
Bars: 1to12=20mm dia.
13 to 16=16mm dia.
Stps:A=10mm dia 4L @ 150mm c/c.

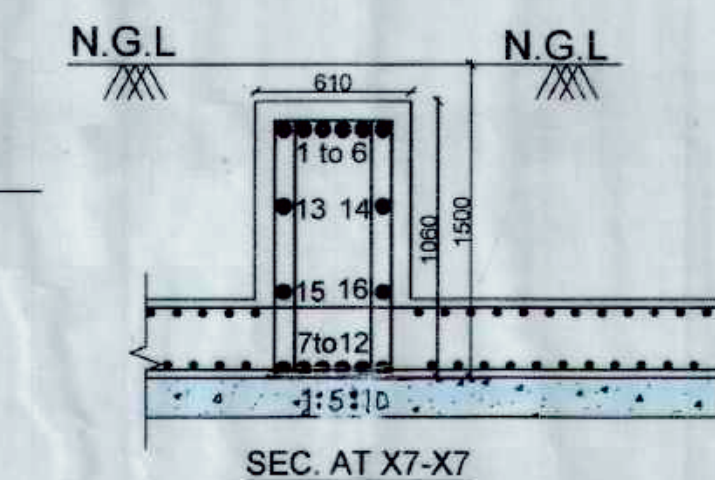
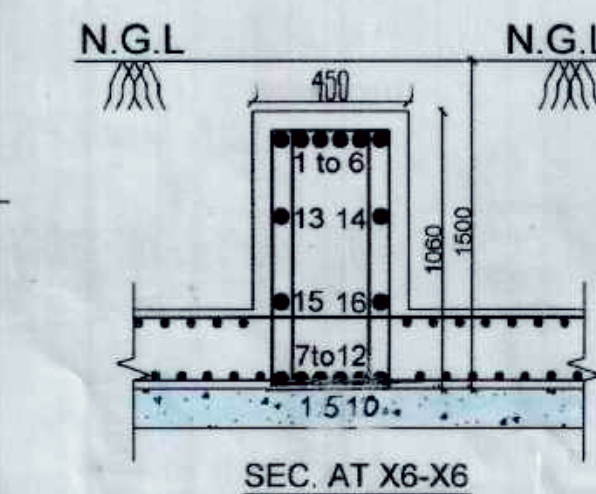
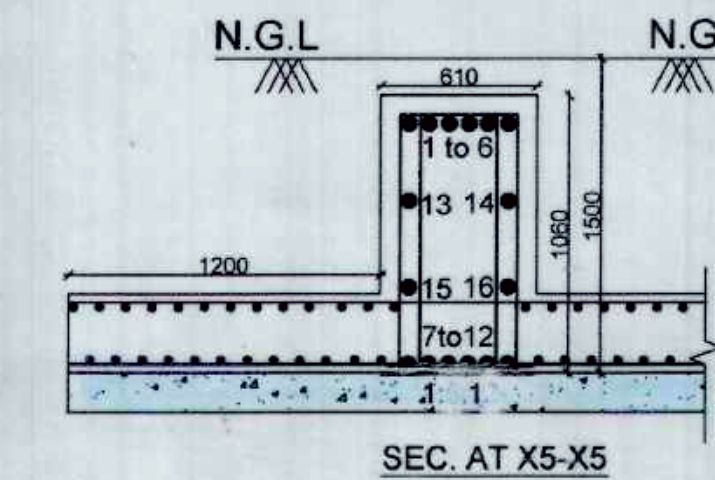
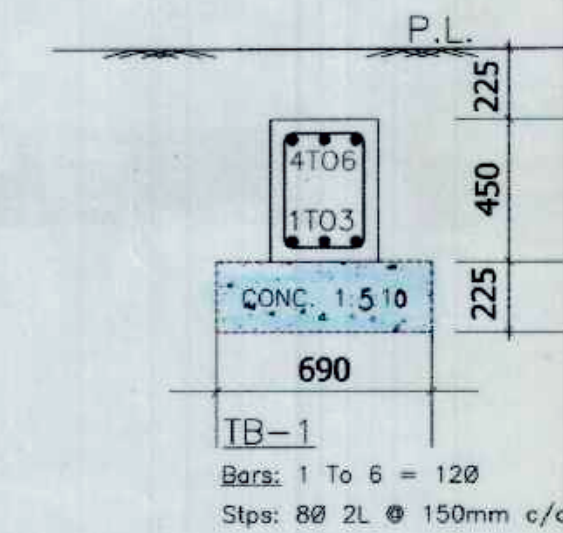
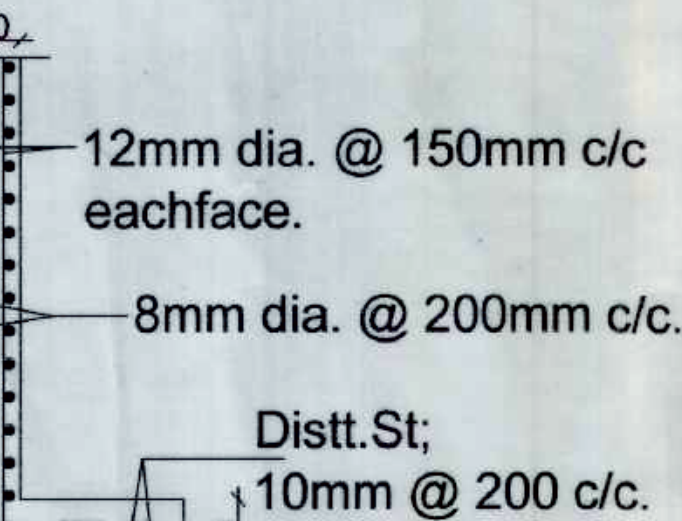


FB-7
Bars: 1to12=20mm dia.
13 to 16=16mm dia.
Stps:A=10mm dia 4L @ 150mm c/c.



Main St;
12mm @ 150 c/c.

RCC WALL



NOTES

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- LAP LENGTH / ANCHORAGE LENGTH
58d IN CASE OF FOUNDATION,BEAM&SLAB
45d IN CASE OF COLUMNS, WHERE 'd' IS DIA OF BARS
- CLEAR COVER TO REINF.:
(i) FOUNDATION = 60mm
(ii) BEAM = 30mm
(iii) COLUMN = 40mm
(iv) SLAB = 25mm
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- CONC. USED IS M-25
- SAFE BEARING CAPACITY OF SOIL IS 13.5 t/m² FOR RCC COLUMN & 12.5 t/m² FOR BRICK MASONRY WALL.
- CEMENT MORTAR USED IN BRICK MASONRY WALLS:-
(a) FOR 230MM THICK IS CM 1:6
(b) FOR 115MM THICK IS CM 1:4

CONSULTANTS:

SYAL & ASSOCIATES
(Chartered Engineers,Architects, Surveyors & Land Planners)
F-91 , PHASE VII,
INDUSTRIAL AREA,
MOHALI.(Pb) PH 0172-2236219

CLIENT:

PROJECT:

**THREE BED ROOM
HOUSING SCHEME FOR
SECTOR-63, CHANDIGARH
(SIX STOREYED)
(S+5)**

REVISION:

STRUCTURE

FOUNDATION BEAMS DETAILS

STRUCTURAL CONSULTANT: Dr. I. C. Syal

SIGNATURE & STAMP:

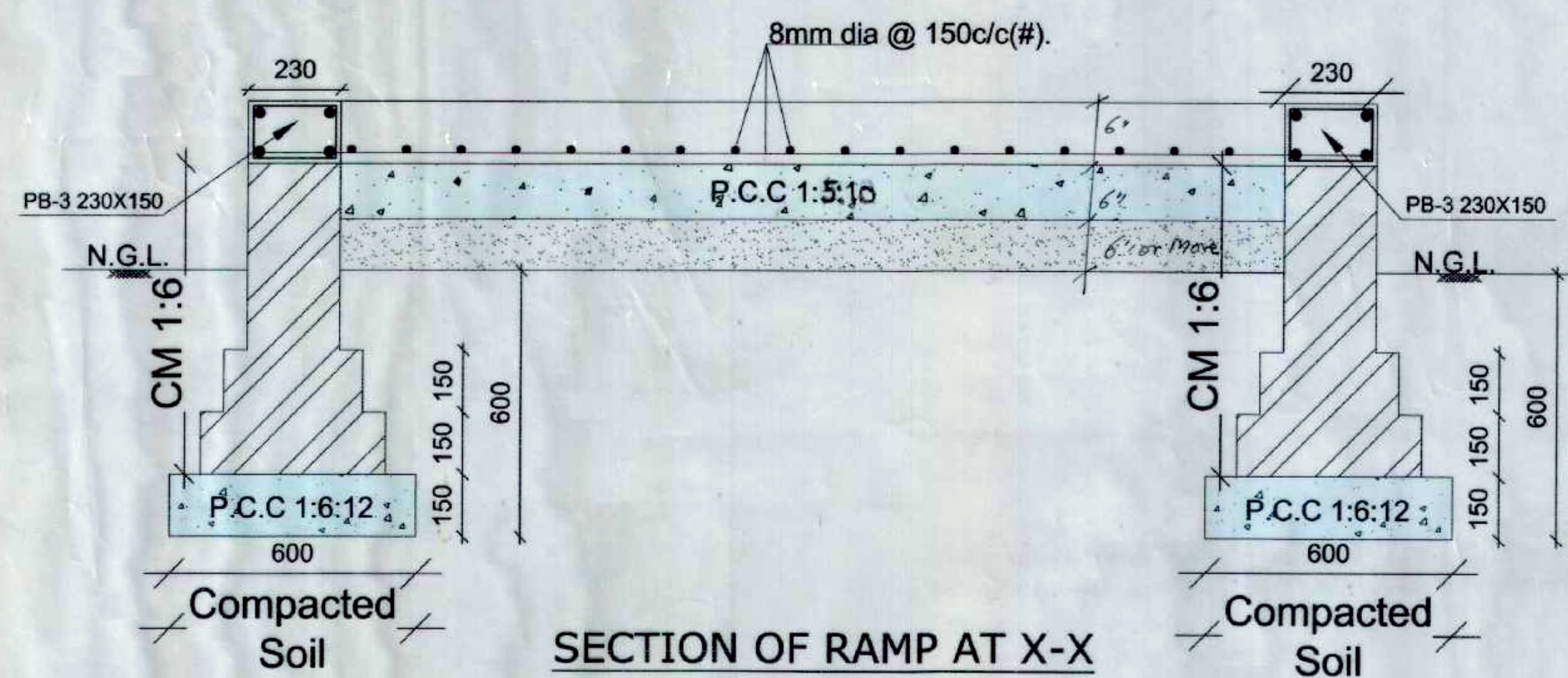
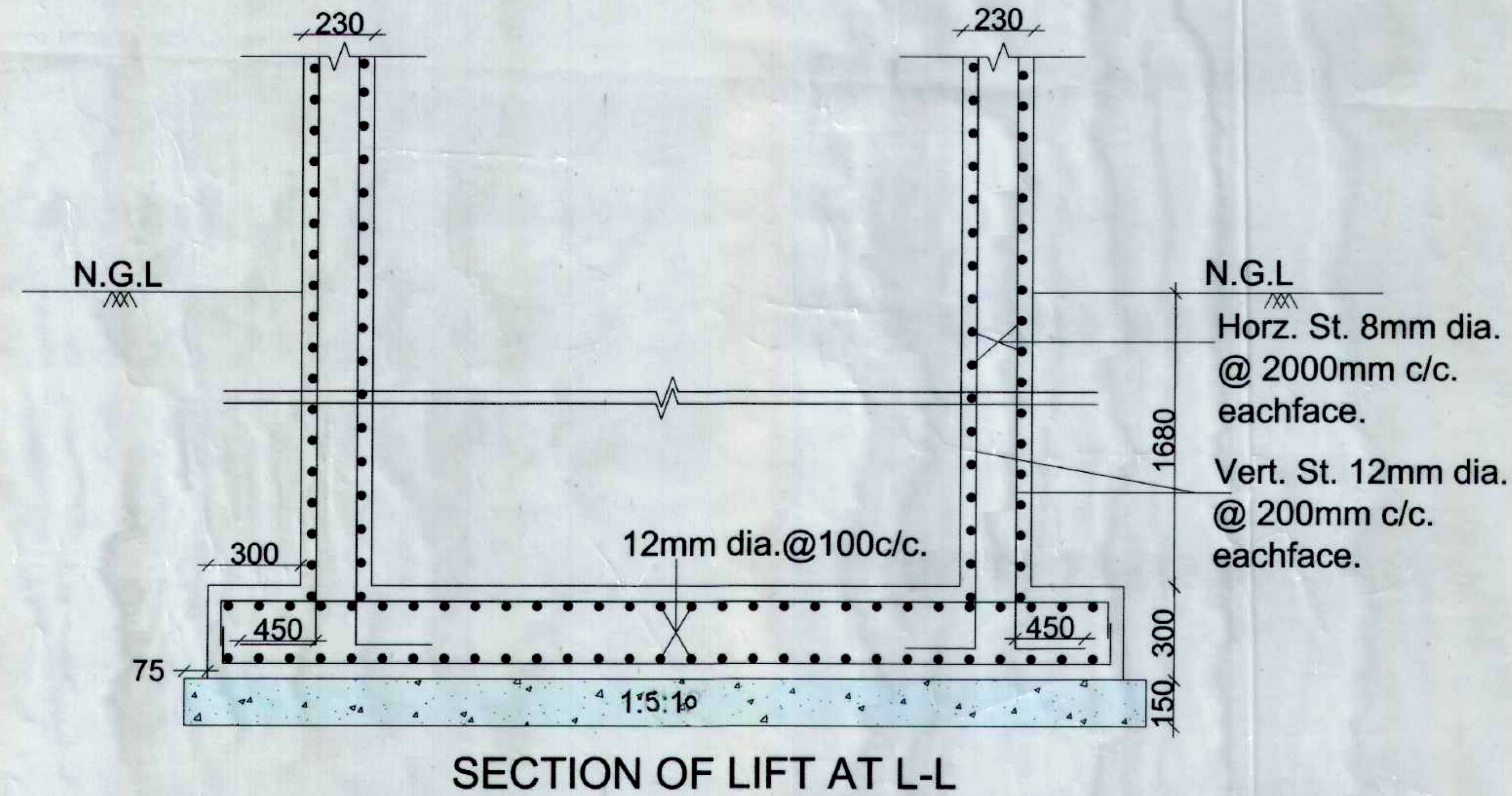
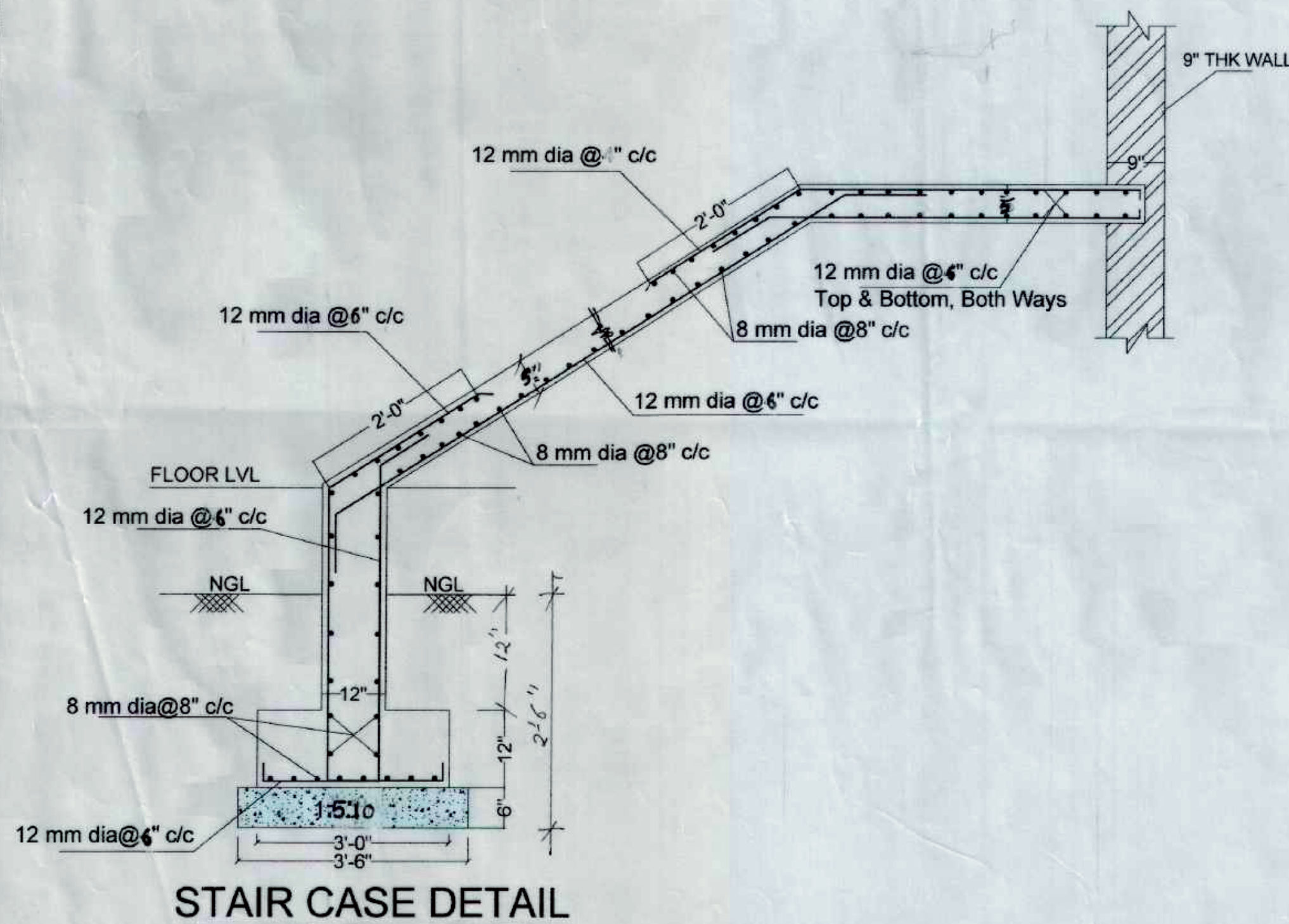
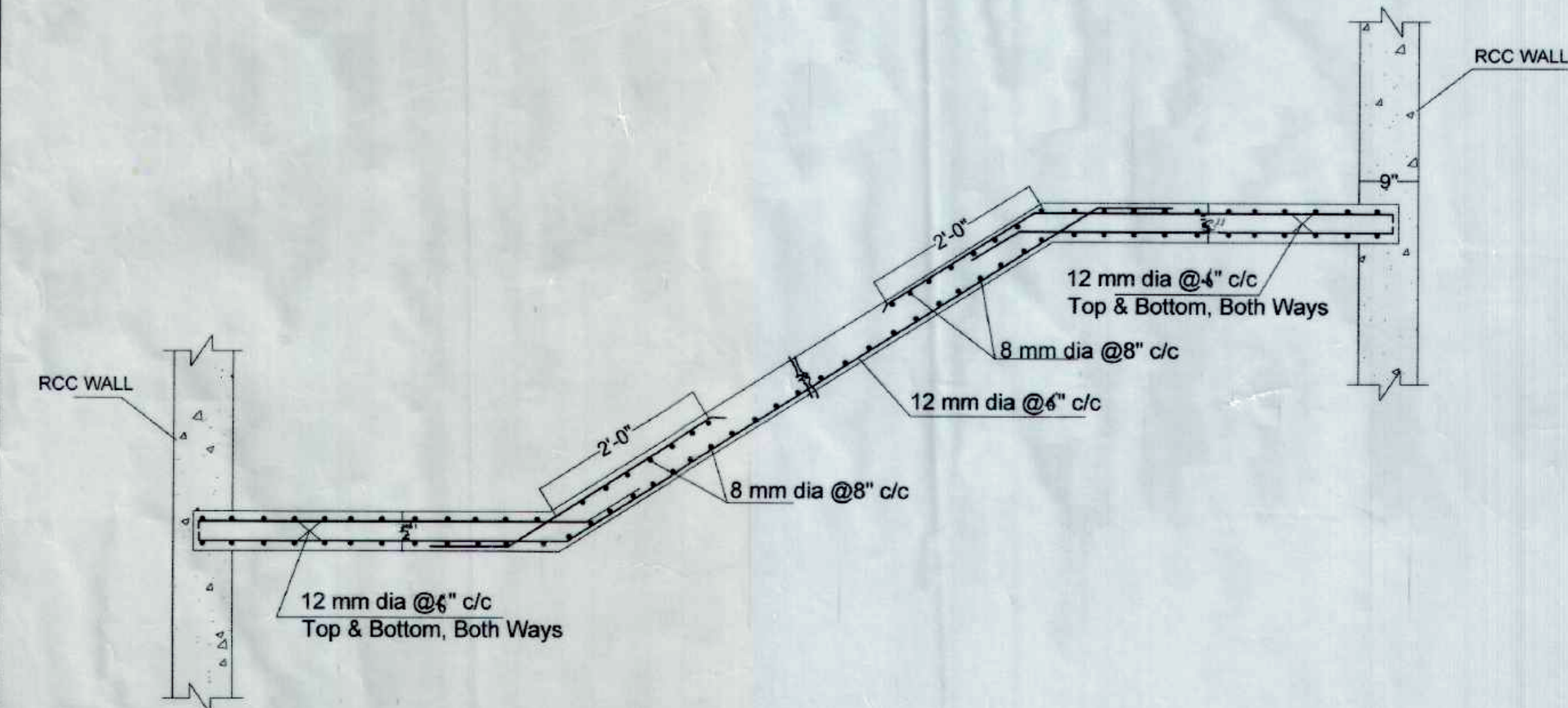
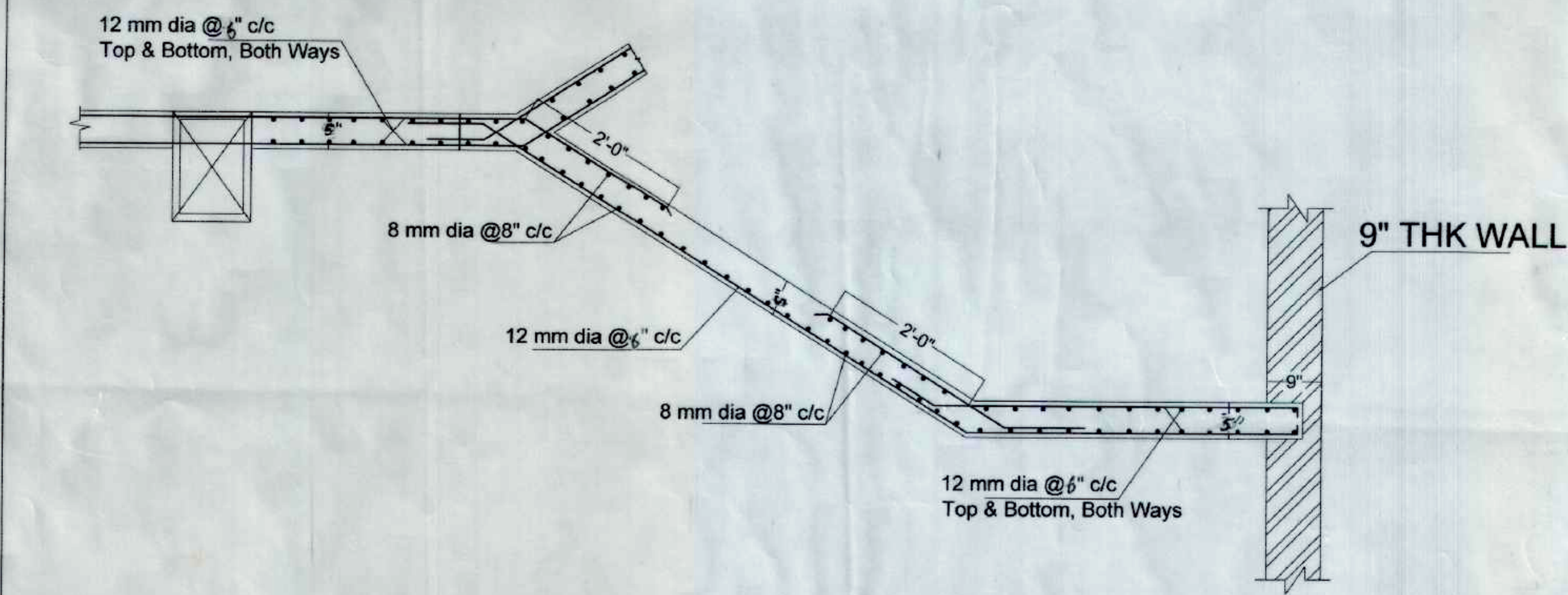
DRAWN BY: ESHA

SCALE: N.T.S.

DATE: 06-07-2009

DRG. NO.: S-302B

DRG. No. 04, JOB NO. 140



NOTES

- DIMENSIONS ARE TO BE READ NOT TO BE SCALED
- CONTRACTOR IS TO CHECK ALL DIMENSIONS BEFORE EXECUTION OF WORK
- 3/4 INDICATES THE DIA OF HYSD BARS OF GRADE Fe415 REFER TO IS: 1786, 1979
- FOR CENTER LINE DIMENSION REFER ARCH.DRG.
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58d IN CASE OF FOUNDATION, BEAM & SLAB
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- CLEAR COVER TO REINF.:
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(ii) BEAM = 30mm
(iii) COLUMN = 40mm
(iv) SLAB = 25mm
- EXTRA BARS TO BE EXTEND 0.3L ON EITHER SIDE OF SUPPORTING BEAM OR COLUMN.
- CONC. USED IS M-25
- SAFE BEARING CAPACITY OF SOIL IS 13.5 t/m^2 FOR RCC COLUMN & 12.5 t/m^2 FOR BRICK MASONRY WALL
- CEMENT MORTAR USED IN BRICK MASONRY WALLS:-
(a) FOR 230MM THK IS CM 1:6
(b) FOR 115MM THK IS CM 1:4

CONSULTANTS

SYAL & ASSOCIATES
(Chartered Engineers, Architects, Surveyors & Land Planners)
F-91, PHASE VII,
INDUSTRIAL AREA,
MOHALI (Pb) PH 0172-2236219

CLIENT:-

PROJECT:-

**THREE BED ROOM
HOUSING SCHEME FOR
SECTOR-63, CHANDIGARH
(SIX STOREYED)
(G+5)(S+5)**

REVISION

STRUCTURE

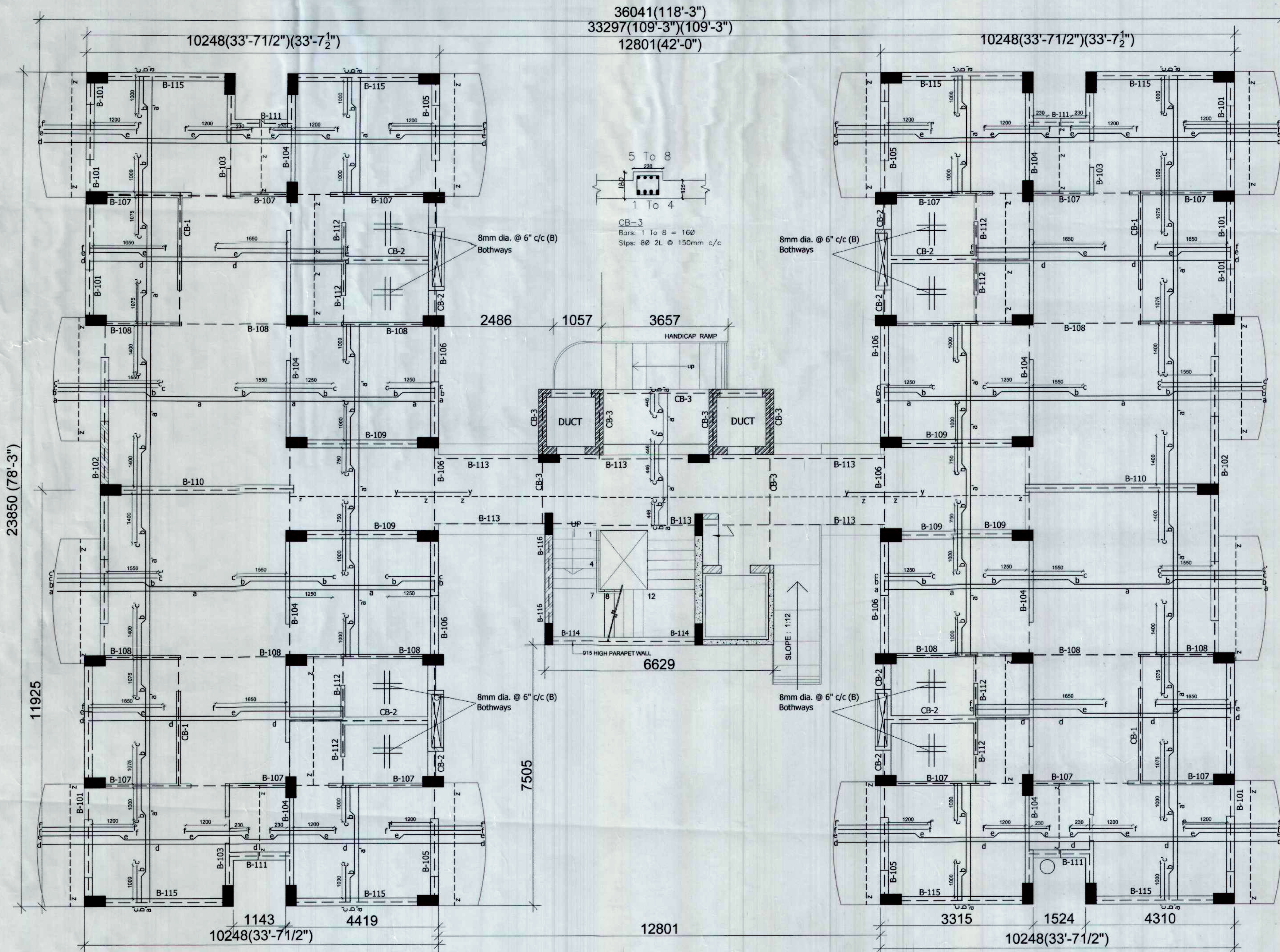
**STAIR DETAIL
LIFT SECTION AT L-L
RAMP SECTION AT X-X**

STRUCTURAL CONSULTANT: Dr. I. C. Syal

SIGNATURE & STAMP:

DRAWN BY: ESHA
SCALE: N.T.S.
DATE: 06-07-2009
DRG. NO.: S-303

DRG. No. 05, JOB No. 140



GROUND FLOOR ROOF SLAB REINF. DETAILS

NOTES

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- CONC. USED IS M-20
- SAFE BEARING CAPACITY OF SOIL IS 13.5 t/m² FOR RCC COLUMNS & 12.5 t/m² FOR BRICK MASONRY WALLS.
- CEMENT MORTAR USED IN BRICK MASONRY WALLS:-
(a) FOR 230MM THK IS CM:1.6
(b) FOR 115MM THK IS CM:1.4

DETAIL OF STEEL REINFORCEMENT

- SLAB THICKNESS = 125 MM THK.
- CONC. USED = M20

SCHEDULE OF BARS

	FACE
a = 10 mm dia. @ 400mm c/c.	(B)
a' = 8 mm dia. @ 400mm c/c.	(B)
b = 10 mm dia. @ 400mm c/c.	(C)
c = 12 mm dia. @ 400mm c/c.	(T)
c' = 10 mm dia. @ 400mm c/c.	(T)
d = 8 mm dia. @ 400mm c/c.	(B)
e = 8 mm dia. @ 400mm c/c.	(C)
f = 10 mm dia. @ 400mm c/c.	(T)
f' = 10 mm dia. @ 200mm c/c.	(T)

Distt. Bars:
y = 10 mm dia @ 150mm c/c. (T&B)
z = 8 mm dia @ 200mm c/c. (T&B)

NOTE:

B Bottom
C Crank
T Top

CONSULTANTS:

SYAL & ASSOCIATES

(Chartered Engineers, Architects, Surveyors & Land Planners)
F-91, PHASE VII,
INDUSTRIAL AREA,
MOHALI.(Pb) PH 0172-2236219

CLIENT:-

PROJECT:- **THREE BED ROOM
HOUSING SCHEME FOR
SECTOR-63, CHANDIGARH
(SIX STOREYED)
(G+5)/(S+5)**

REVISION:

STRUCTURE

GROUND FLOOR ROOF SLAB REINF. DETAIL
CB-3

STRUCTURAL CONSULTANT: Dr. I. C. Syal

SIGNATURE & STAMP:

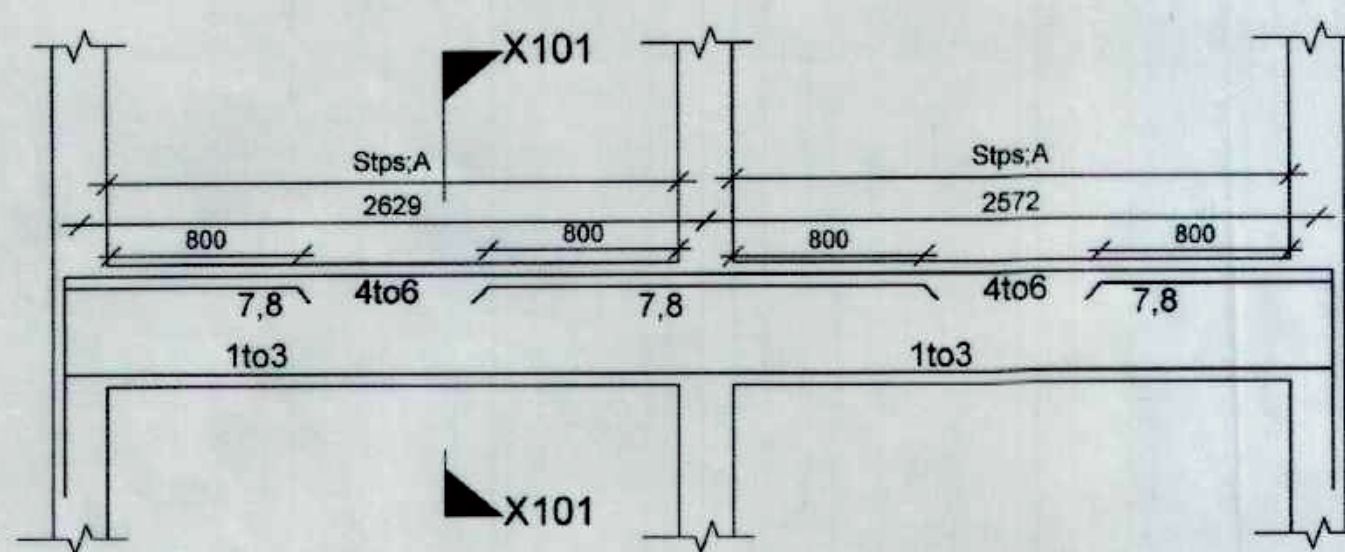
DRAWN BY: ESHA

SCALE: N.T.S.

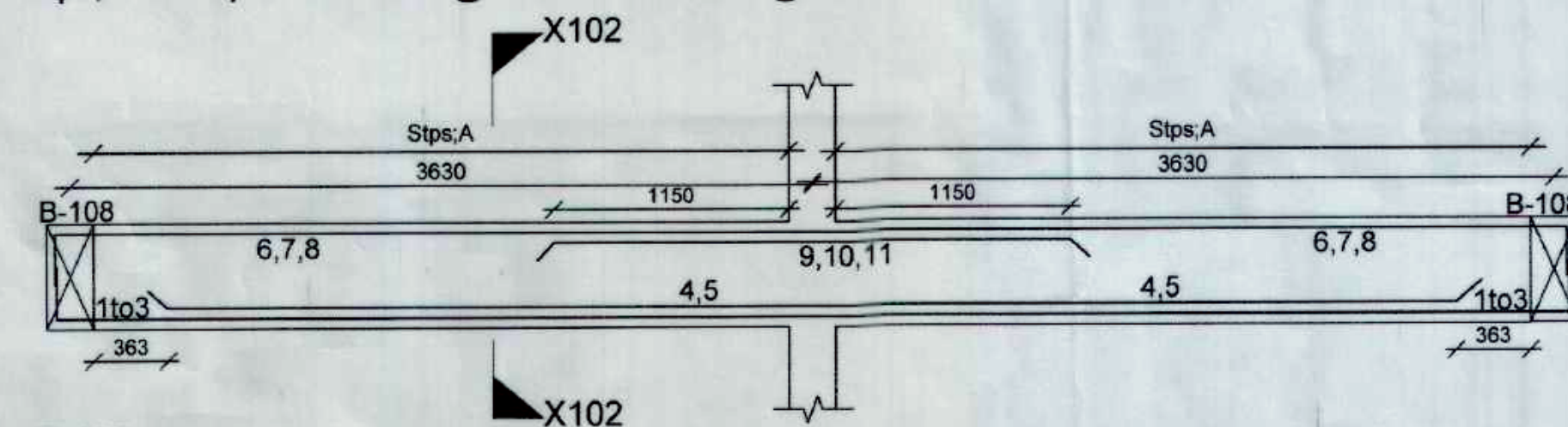
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DRG. NO.: S-304

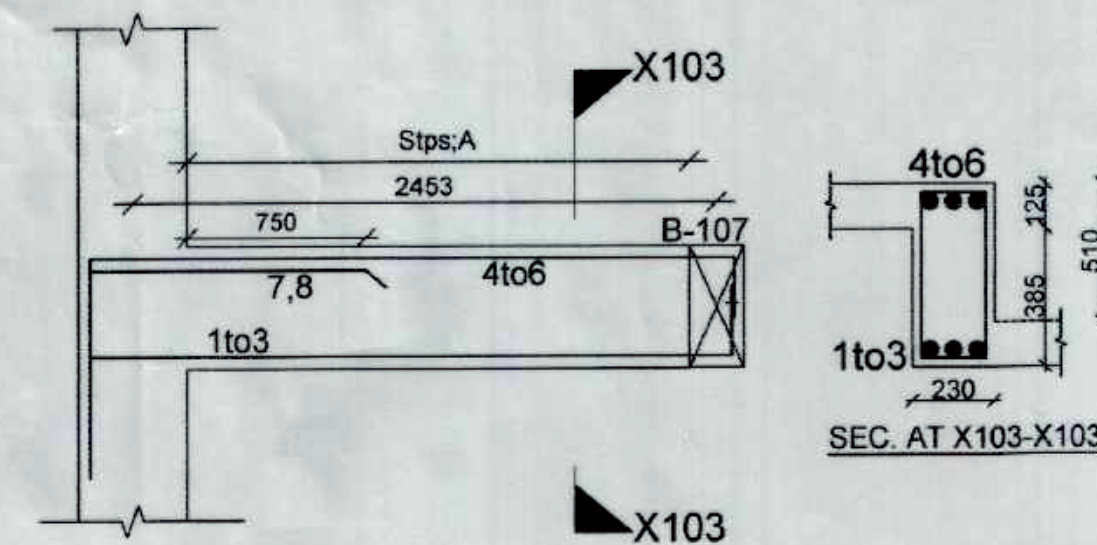
DRG. No. 06, JOB No. 140



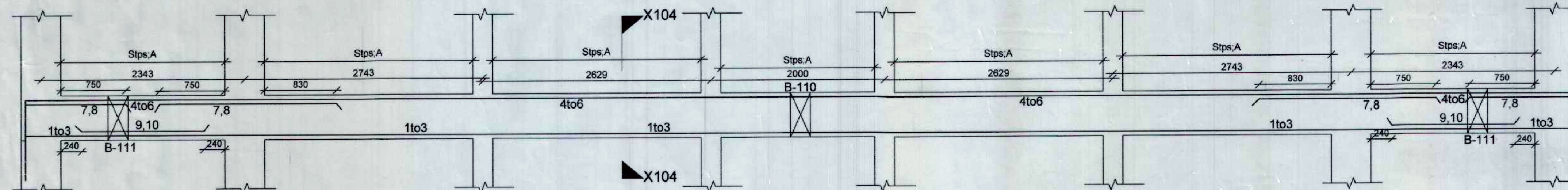
B-101
Bars; 1to8=16mm dia.
Stps;A=8mm dia 2L 8 Nos. @ 100mm c/c & rest @ 200 c/c.



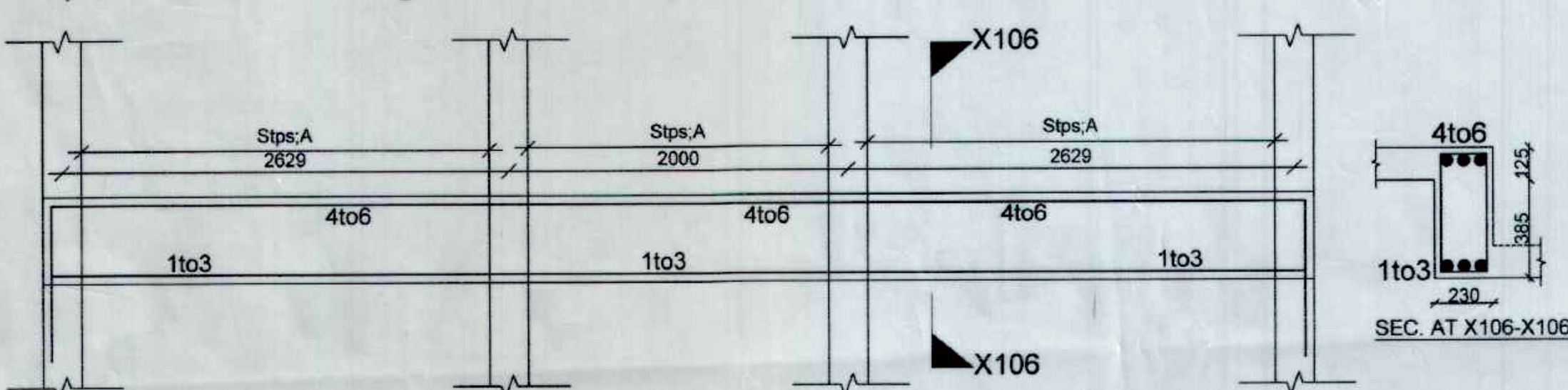
B-102
Bars; 1to11=16mm dia.
Stps;A=8mm dia 2L 8 Nos. @ 100mm c/c & rest @ 200 c/c.



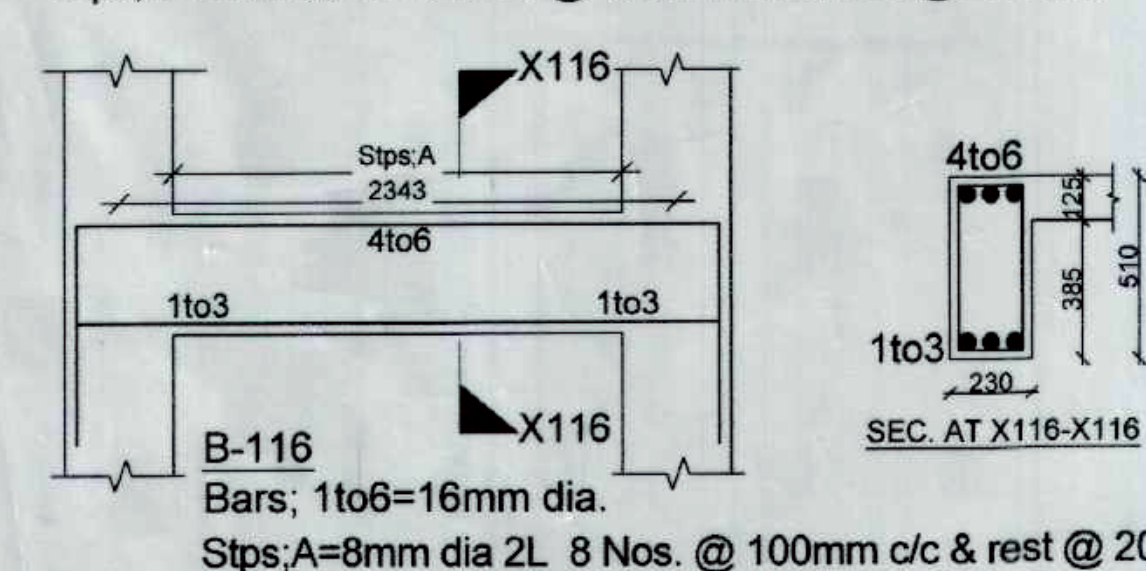
B-103
Bars; 1to8=16mm dia.
Stps;A=8mm dia 2L 8 Nos. @ 100mm c/c & rest @ 200 c/c.



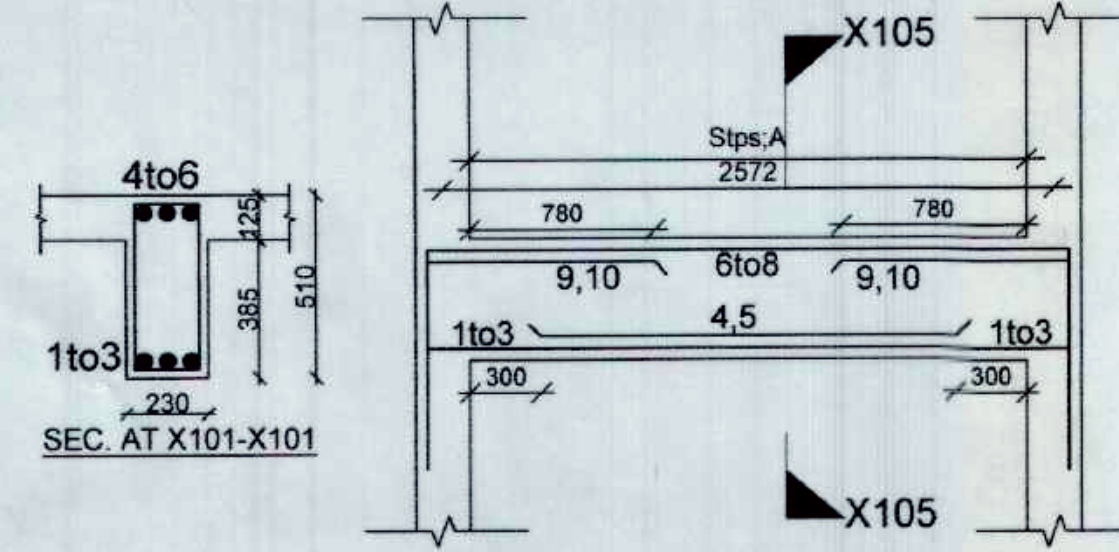
B-104
Bars; 1to10=16mm dia.
Stps;A=8mm dia 2L 8 Nos. @ 100mm c/c & rest @ 200 c/c.



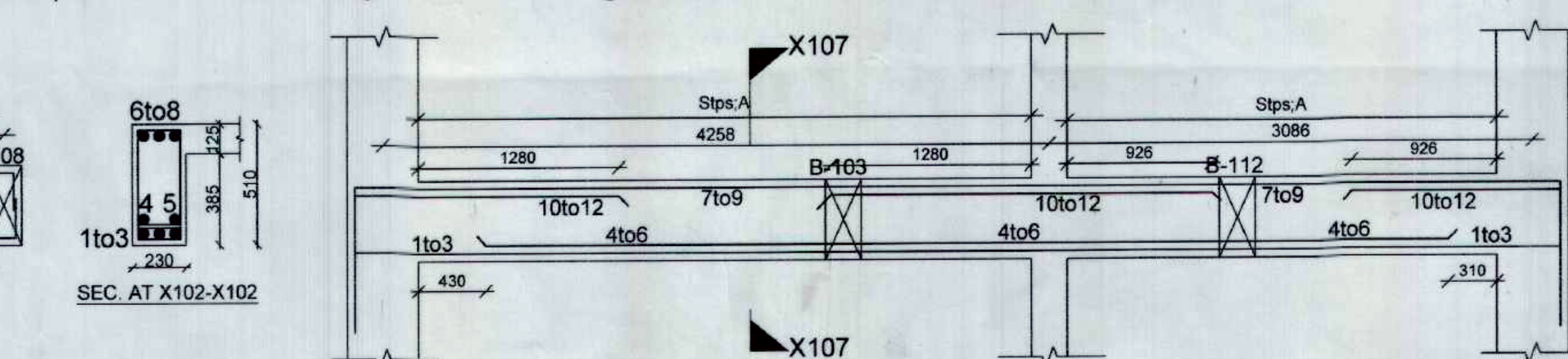
B-106
Bars; 1to6=16mm dia.
Stps;A=8mm dia 2L 8 Nos. @ 100mm c/c & rest @ 200 c/c.



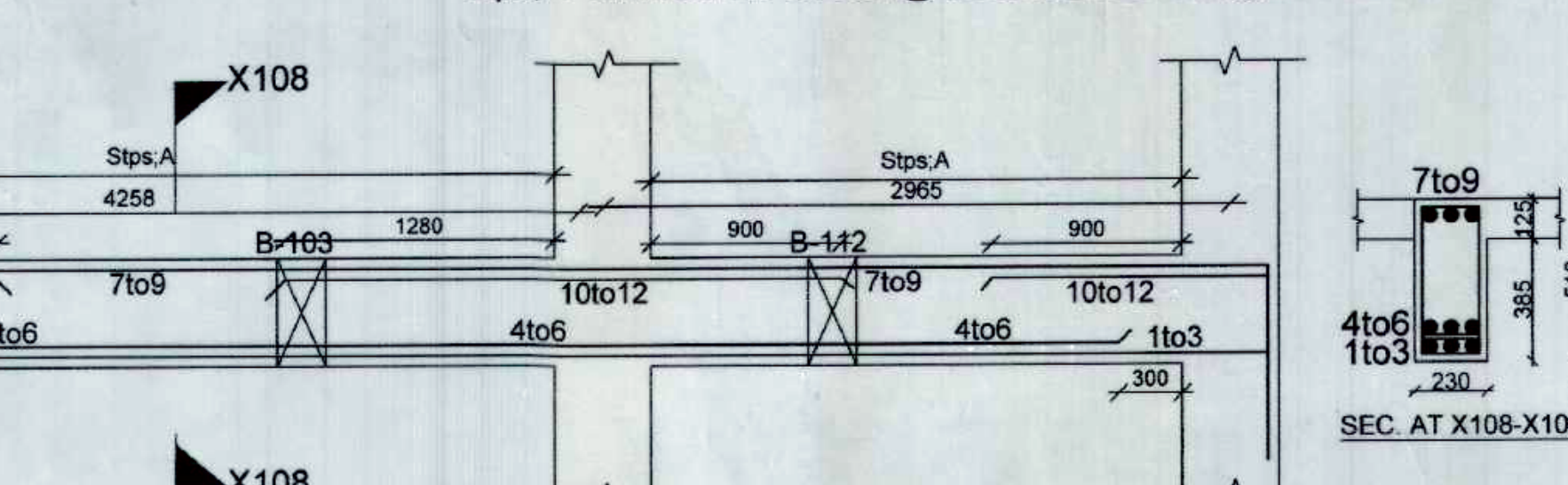
B-116
Bars; 1to6=16mm dia.
Stps;A=8mm dia 2L 8 Nos. @ 100mm c/c & rest @ 200 c/c.



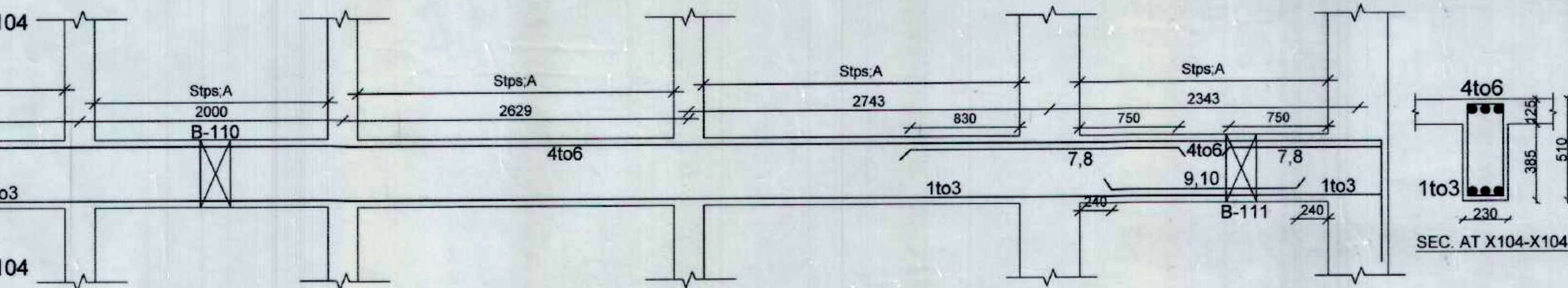
B-105
Bars; 1to10=16mm dia.
Stps;A=8mm dia 2L 8 Nos. @ 100mm c/c & rest @ 200 c/c.



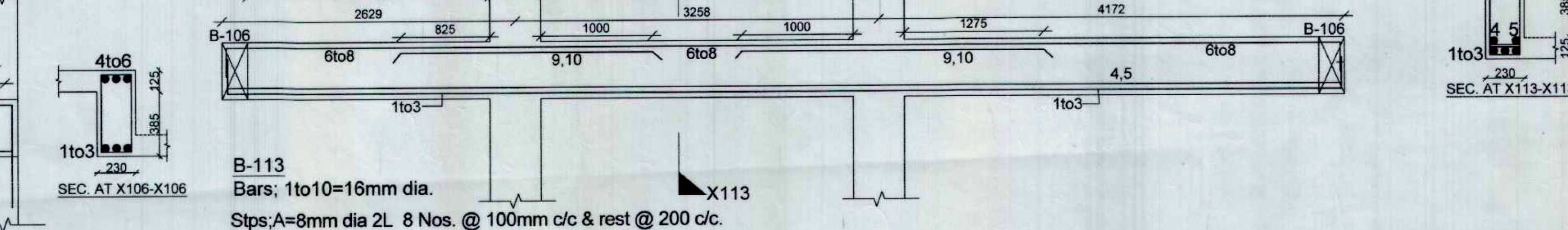
B-107
Bars; 1to9=16mm dia.
10to12=20mm dia.
Stps;A=8mm dia 2L 8 Nos. @ 100mm c/c & rest @ 200 c/c.



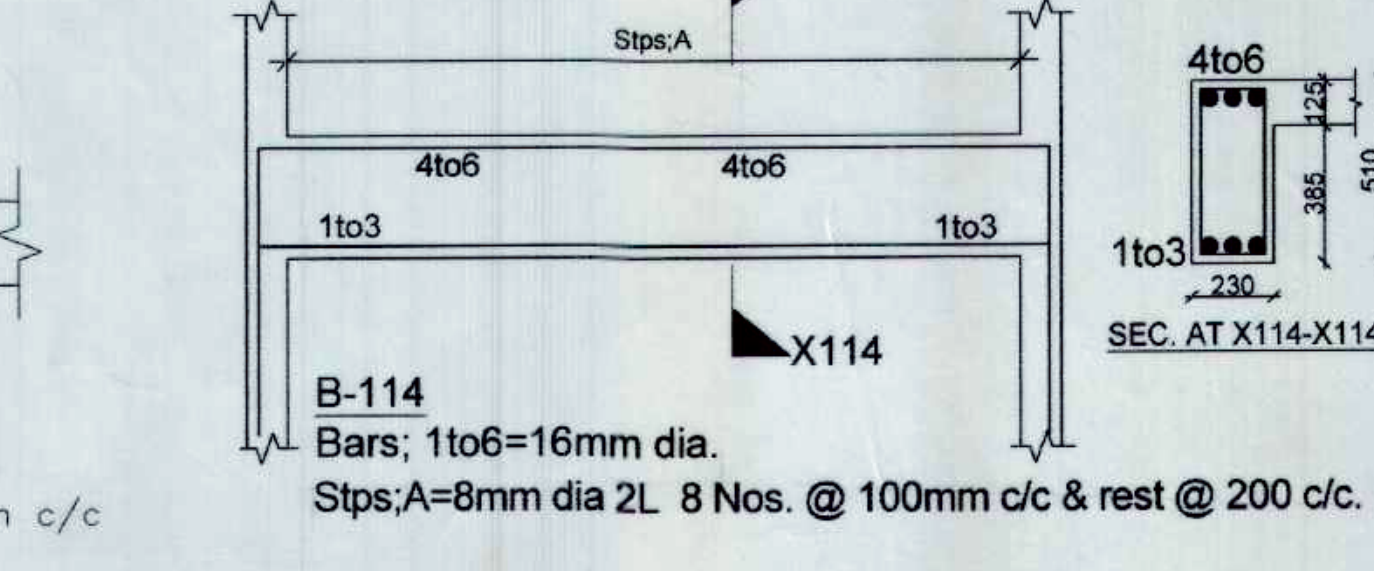
B-108
Bars; 1to9=16mm dia.
Bars; 10to12=20mm dia.
Stps;A=8mm dia 2L 8 Nos. @ 100mm c/c & rest @ 200 c/c.



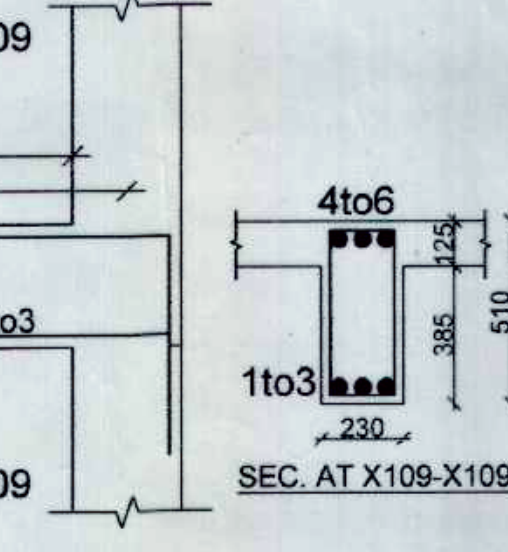
B-110
Bars; 1to11=16mm dia.
Stps;A=8mm dia 2L 8 Nos. @ 100mm c/c & rest @ 200 c/c.



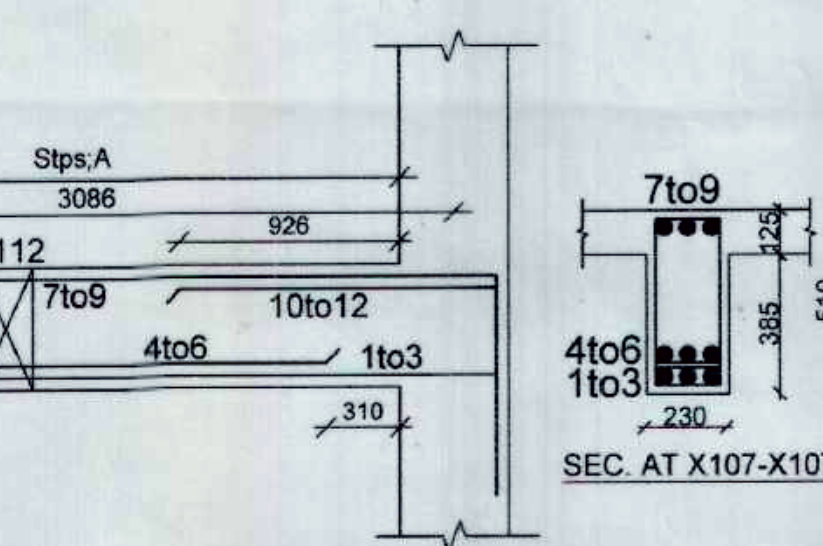
B-113
Bars; 1to10=16mm dia.
Stps;A=8mm dia 2L 8 Nos. @ 100mm c/c & rest @ 200 c/c.



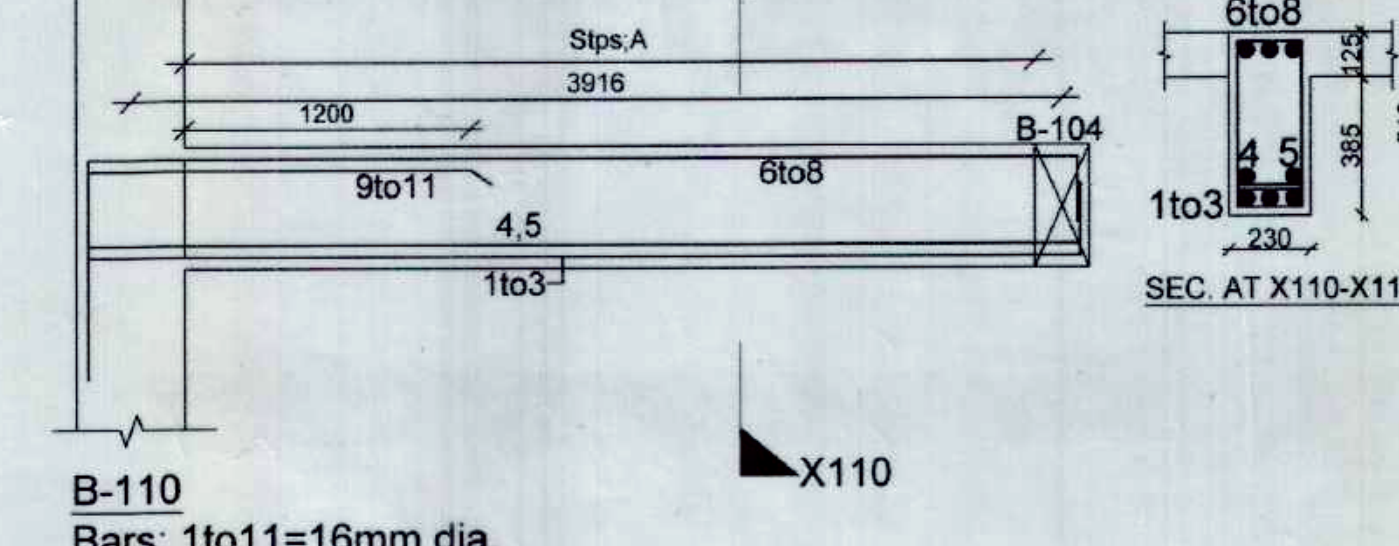
B-114
Bars; 1to6=16mm dia.
Stps;A=8mm dia 2L 8 Nos. @ 100mm c/c & rest @ 200 c/c.



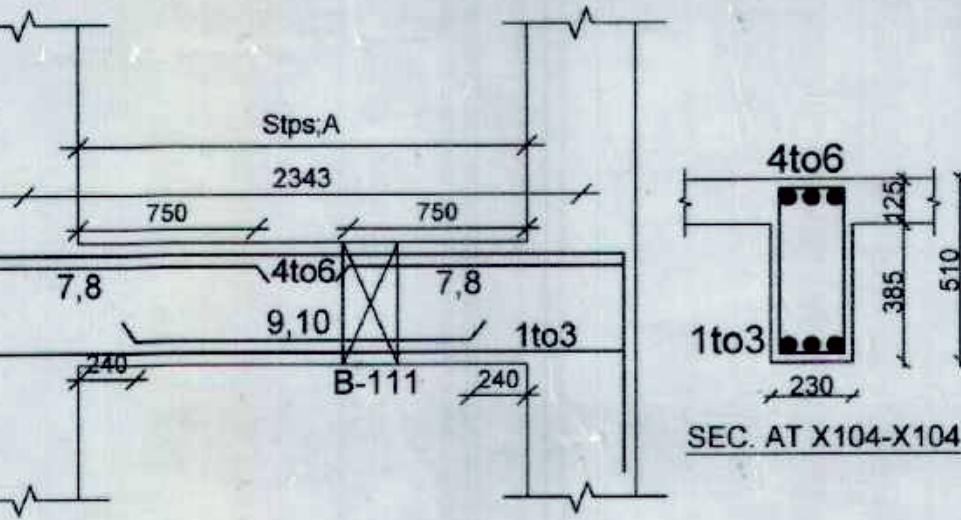
B-109
Bars; 1to6=16mm dia.
Stps;A=8mm dia 2L 8 Nos. @ 100mm c/c & rest @ 200 c/c.



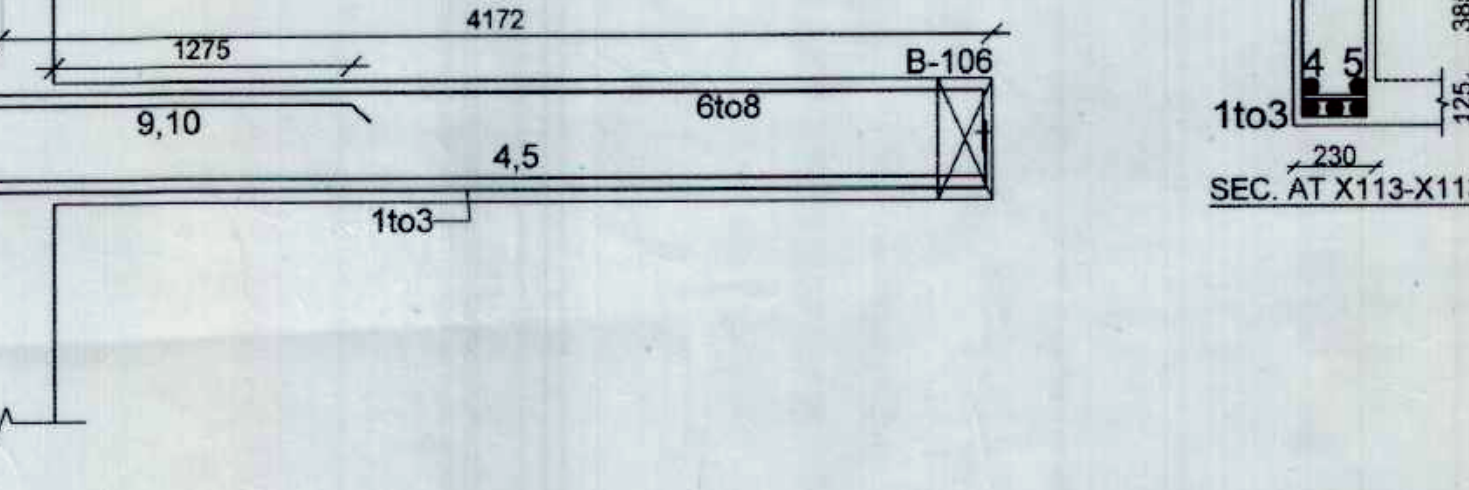
B-112
Bars; 1to6=16mm dia.
Stps;B=8mm dia 2L @ 150mm c/c.



B-111
Bars; 1to6=12mm dia.
Stps;B=8mm dia 2L @ 150mm c/c.



B-115
Bars; 1to10=16mm dia.
Stps;A=8mm dia 2L 8 Nos. @ 100mm c/c & rest @ 200 c/c.



B-116
Bars; 1to10=16mm dia.
Stps;A=8mm dia 2L 8 Nos. @ 100mm c/c & rest @ 200 c/c.

CB-1, CB-2
Bars; 1to8=16mm dia.
Stps;B=8mm dia 2L @ 150mm c/c.

NOTES

1. DIMENSIONS ARE TO BE READ NOT TO BE SCALED
2. CONTRACTOR IS TO CHECK ALL DIMENSIONS BEFORE EXECUTION OF WORK
3. Ø INDICATES THE DIA OF HYSD BARS OF GRADE Fe415 REFER TO IS: 1786, 1979
4. FOR CENTER LINE DIMENSION REFER ARCH.DRG.
5. NOT MORE THAN 50% BARS ARE TO BE LAPPED AT ONE LOCATION
6. LAP LENGTH / ANCHORAGE LENGTH
58d IN CASE OF FOUNDATION, BEAM & SLAB
45d IN CASE OF COLUMNS, WHERE 'd' IS DIA OF BARS
7. CLEAR COVER TO REINF.:
(i) FOUNDATION = 60mm
(ii) BEAM = 30mm
(iii) COLUMN = 40mm
(iv) SLAB = 25mm
8. EXTRA BARS TO BE EXTEND 0.3L ON EITHER SIDE OF SUPPORTING BEAM OR COLUMN.
9. CONC. USED IS M-20
10. SAFE BEARING CAPACITY OF SOIL IS 13.5 t/m² FOR RCC COLUMNS & SAFE BEARING CAPACITY OF SOIL IS 12.5 t/m² FOR BRICK MASONRY WALLS.
11. CEMENT MORTAR USED IN BRICK MASONRY WALLS:-
(a) FOR 230MM THK IS CM1:6
(b) FOR 115MM THK IS CM1:4

CONSULTANTS:

SYAL & ASSOCIATES
(Chartered Engineers, Architects, Surveyors & Land Planners)
F-91, PHASE VII,
INDUSTRIAL AREA,
MOHALI (Pb) PH 0172-2236219

CLIENT:-

PROJECT:-

**THREE BED ROOM
HOUSING SCHEME FOR
SECTOR-63, CHANDIGARH
(SIX STOREYED)
(G+5)/(S+5)**

REVISION:

S T R U C T U R E

BEAM DETAILS

STRUCTURAL CONSULTANT: Dr. I. C. Syal

SIGNATURE & STAMP:

DRAWN BY: ESHA

SCALE: N.T.S.

DATE: 26-06-2009

DRG. NO.: S-305

DRG. NO. 07, JOB NO. 140

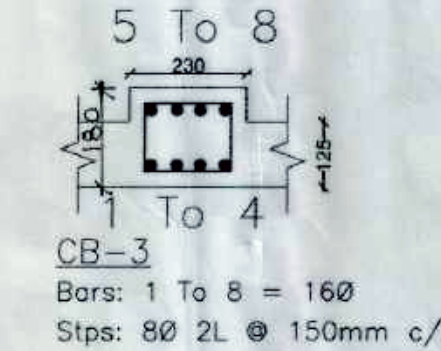
36041(118'-3")
33297(109'-3")(109'-3")
12801(42'-0")

BEAM EQUIVALENCE TABLE

F.F.R.S	S.F.R.S	THIRD F.R.S	FOURTH F.R.S	FIFTH F.R.S
B-201	=	B-301	=	B-401
B-202	=	B-302	=	B-402
B-203	=	B-303	=	B-403
B-204	=	B-304	=	B-404
B-205	=	B-305	=	B-405
B-206	=	B-306	=	B-406
B-207	=	B-307	=	B-407
B-208	=	B-308	=	B-408
B-209	=	B-309	=	B-409
B-210	=	B-310	=	B-410
B-211	=	B-311	=	B-411
B-212	=	B-312	=	B-412
B-213	=	B-313	=	B-413
B-214	=	B-314	=	B-414
B-215	=	B-315	=	B-415
CB-1	=	CB-1	=	CB-1
CB-2	=	CB-2	=	CB-2
CB-3	=	CB-3	=	CB-3

8mm dia. @ 6" c/c (B)
Bothways

8mm dia. @ 6" c/c (B)
Bothways



TYPICAL FLOOR ROOF SLAB REINF. DETAILS

NOTES

- DIMENSIONS ARE TO BE READ NOT TO BE SCALED
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- INDICATES THE DIA OF HYSD BARS OF GRADE Fe415 REFER TO IS: 1786, 1979
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58d IN CASE OF FOUNDATION, BEAM & SLAB
45d IN CASE OF COLUMNS, WHERE 'd' IS DIA OF BARS
- CLEAR COVER TO REINF.:
(i) FOUNDATION = 60mm
(ii) BEAM = 30mm
(iii) COLUMN = 40mm
(iv) SLAB = 25mm
- EXTRA BARS TO BE EXTEND 0.3L ON EITHER SIDE OF SUPPORTING BEAM OR COLUMN.
- CONC. USED IS M-20
- SAFE BEARING CAPACITY OF SOIL IS 13.5 t/m² FOR RCC COLUMNS & 12.5 t/m² FOR BRICK MASONRY WALLS.
- CEMENT MORTAR USED IN BRICK MASONRY WALLS:-
(a) FOR 230MM THK IS CM1:6
(b) FOR 115MM THK IS CM1:4

DETAIL OF STEEL REINFORCEMENT

- SLAB THICKNESS = 125 MM THK.
- CONC. USED = M20

SCHEDULE OF BARS	FACE
a = 10 mm dia. @ 400mm c/c.	(B)
a' = 8 mm dia. @ 400mm c/c.	(B)
b = 10 mm dia. @ 400mm c/c.	(C)
c = 12 mm dia. @ 400mm c/c.	(T)
c' = 10 mm dia. @ 400mm c/c.	(T)
d = 8 mm dia. @ 400mm c/c.	(B)
e = 8 mm dia. @ 400mm c/c.	(C)
f = 10 mm dia. @ 400mm c/c.	(T)
f' = 10 mm dia. @ 200mm c/c.	(T)

Distt. Bars:
y = 10 mm dia @ 150mm c/c. (T&B)
z = 8 mm dia @ 200mm c/c. (T&B)

NOTE:

B Bottom
C Crank
T Top

CONSULTANTS:

SYAL & ASSOCIATES

(Chartered Engineers, Architects, Surveyors & Land Planners)
F-91, PHASE VII,
INDUSTRIAL AREA,
MOHALI.(Pb) PH 0172-2236219

CLIENT:-

PROJECT:- THREE BED ROOM
HOUSING SCHEME FOR
SECTOR-63, CHANDIGARH
(SIX STOREYED)
(G+5)/(S+5)

REVISION:

STRUCTURE

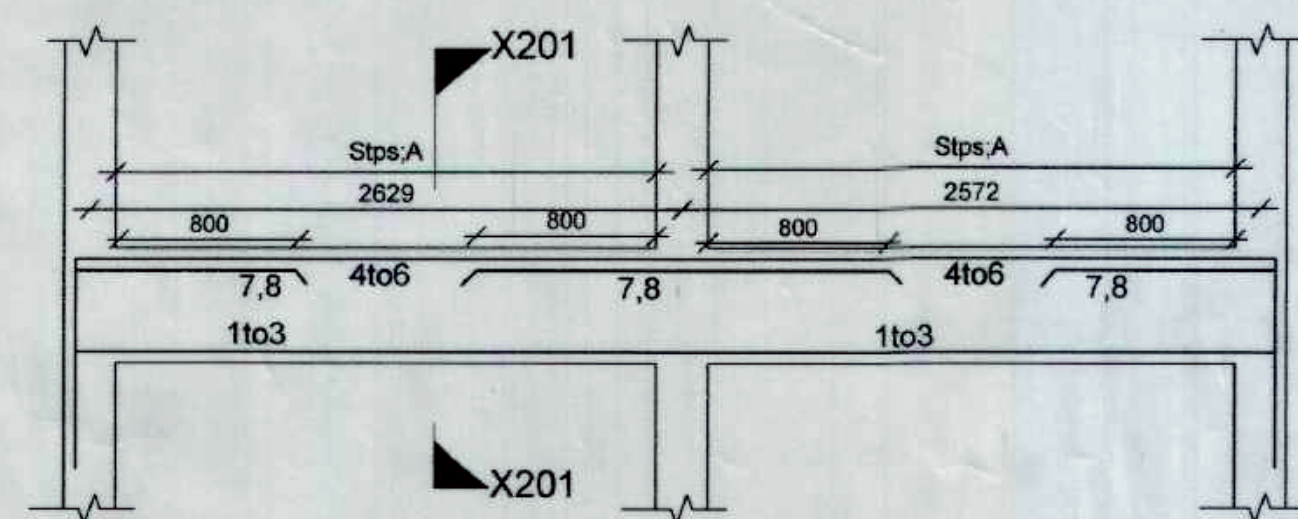
TYPICAL FLOOR ROOF SLAB REINF. DETAIL,
CB-3

STRUCTURAL CONSULTANT: Dr. I. C. Syal

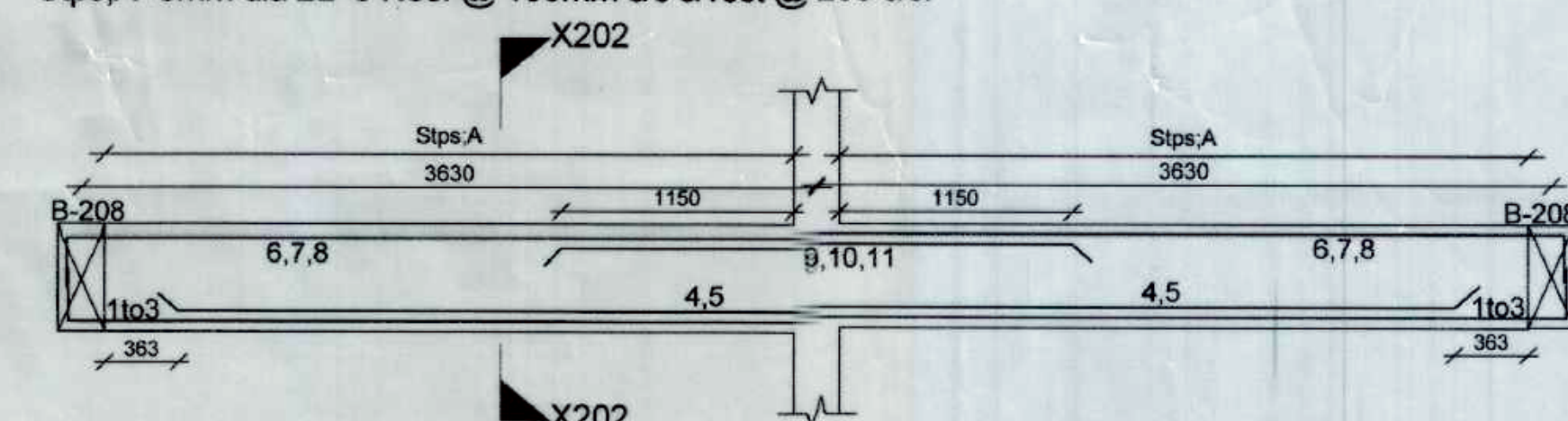
SIGNATURE & STAMP:

DRAWN BY:	ESHA
SCALE:	N.T.S.
DATE:	30-06-2009
DRG. NO.:	S-308

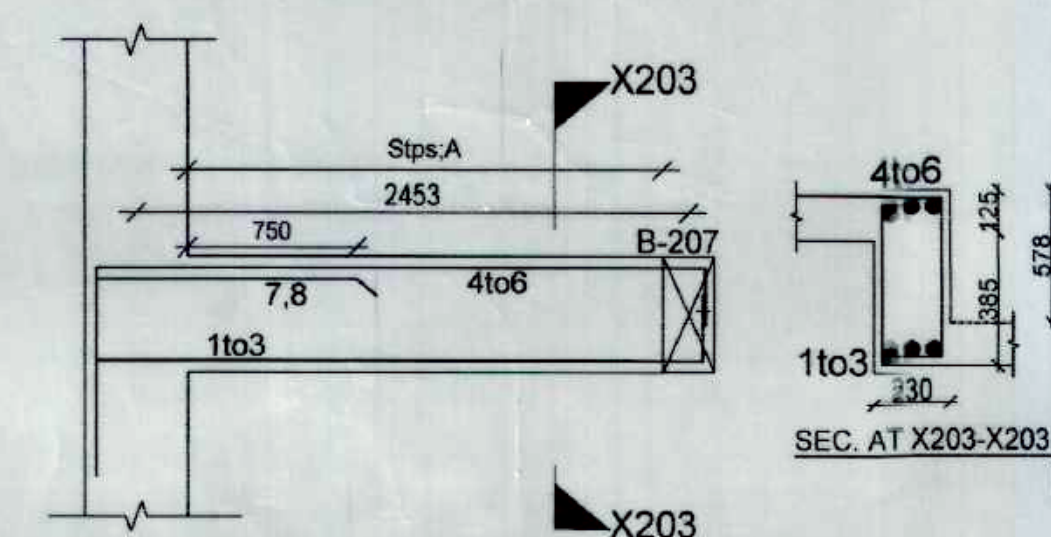
DRG. No. 08, Job No. 140



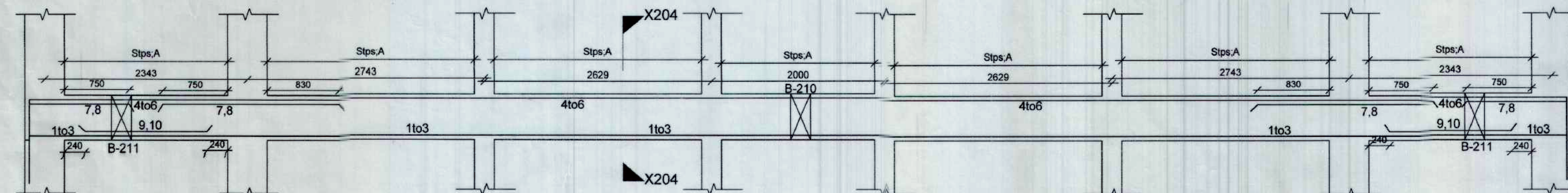
B-201
Bars; 1to8=16mm dia.
Stps;A=8mm dia 2L 8 Nos. @ 100mm c/c & rest @ 200 c/c.



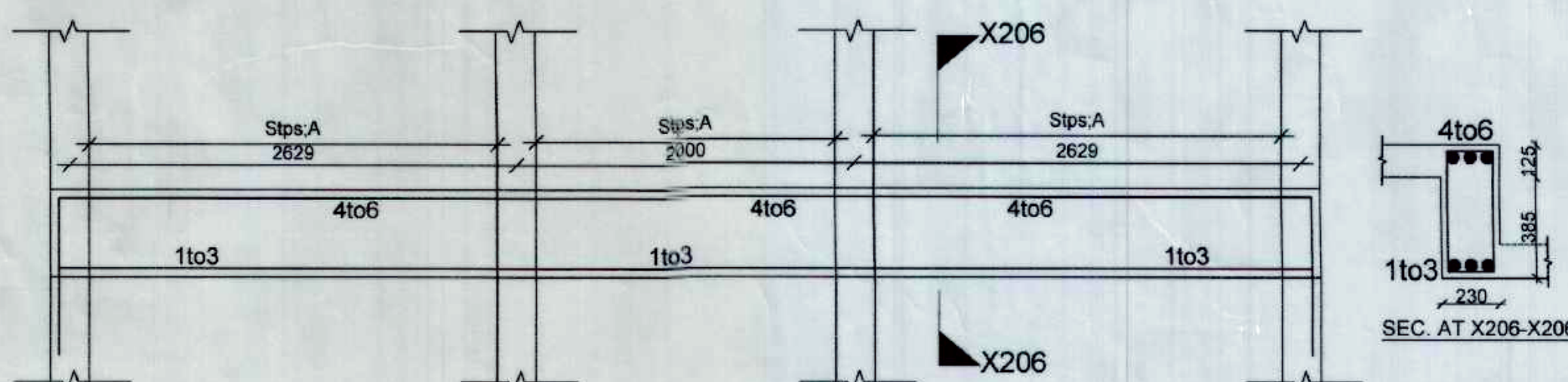
B-202
Bars; 1to11=16mm dia.
Stps;A=8mm dia 2L 8 Nos. @ 100mm c/c & rest @ 200 c/c.



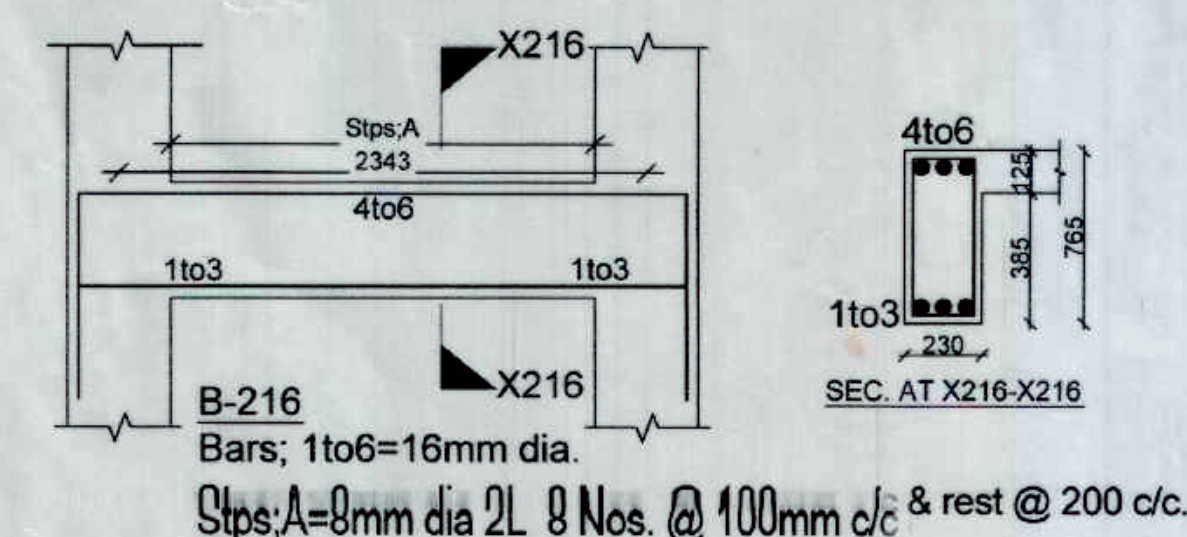
B-203
Bars; 1to8=16mm dia.
Stps;A=8mm dia 2L 8 Nos. @ 100mm c/c & rest @ 200 c/c.



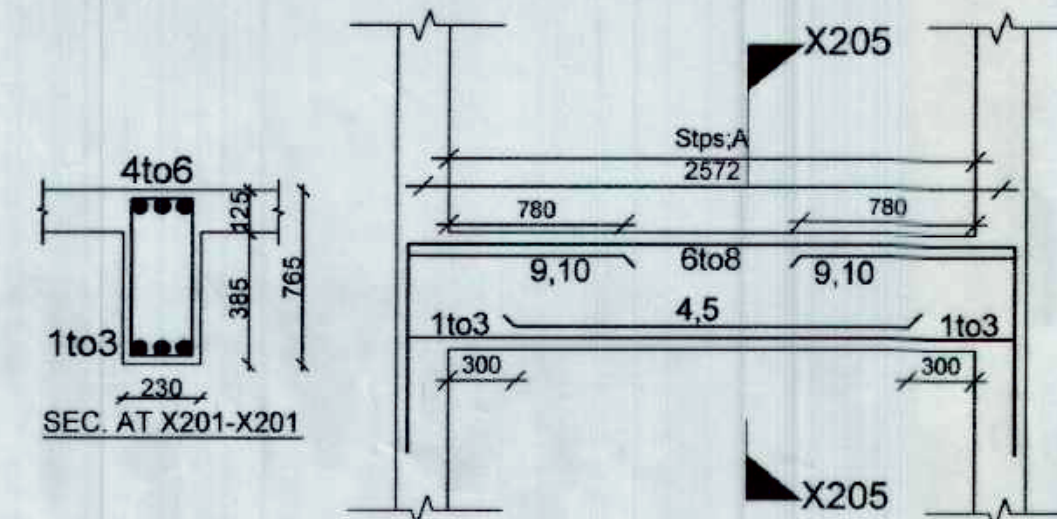
B-204
Bars; 1to10=16mm dia.
Stps;A=8mm dia 2L 8 Nos. @ 100mm c/c & rest @ 200 c/c.



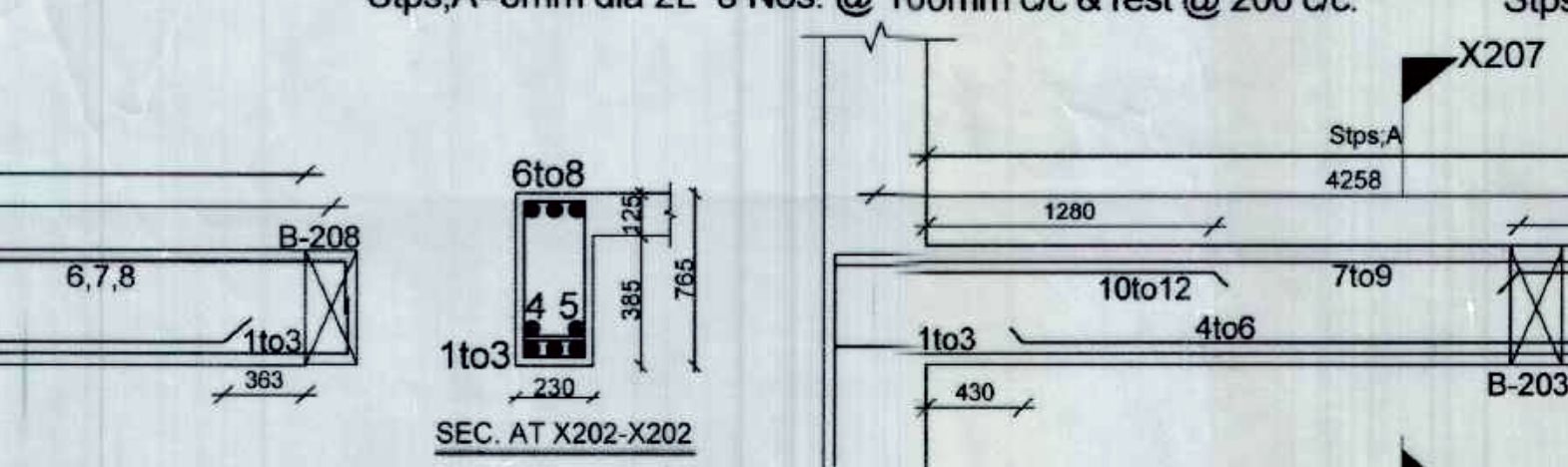
B-206
Bars; 1to6=16mm dia.
Stps;A=8mm dia 2L 8 Nos. @ 100mm c/c & rest @ 200 c/c.



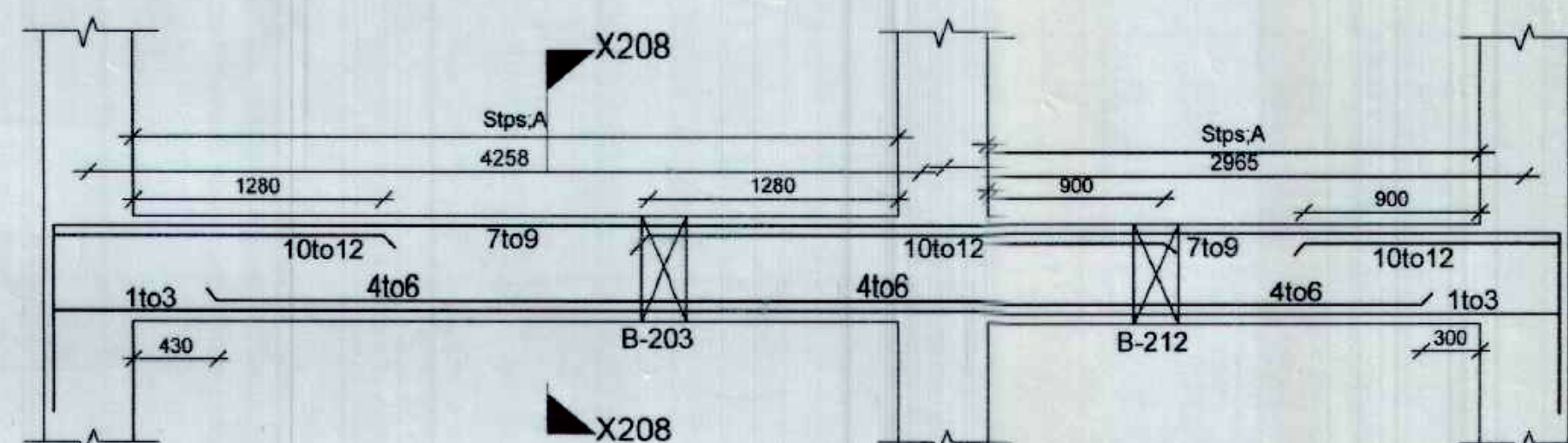
B-216
Bars; 1to6=16mm dia.
Stps;A=8mm dia 2L 8 Nos. @ 100mm c/c & rest @ 200 c/c.



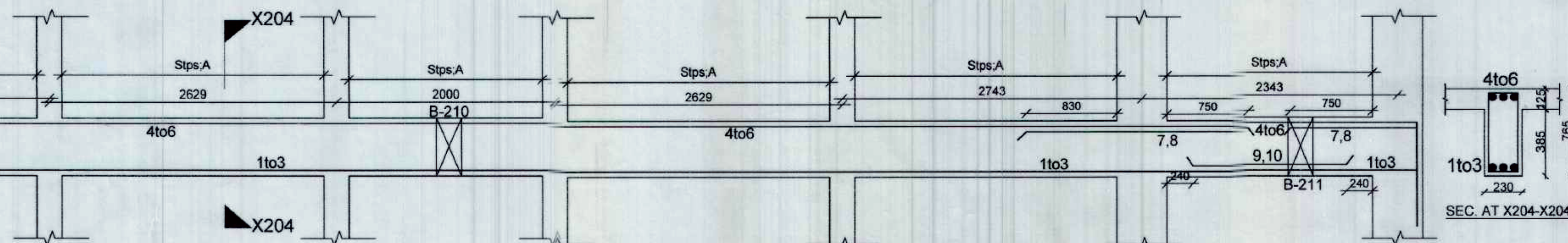
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Bars; 1to10=16mm dia.
Stps;A=8mm dia 2L 8 Nos. @ 100mm c/c & rest @ 200 c/c.



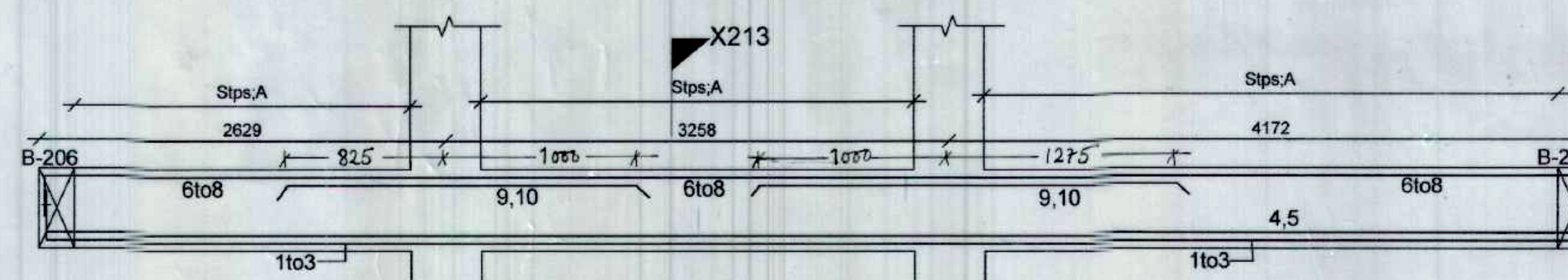
B-207
Bars; 1to9=16mm dia.
10to12=20mm dia.
Stps;A=8mm dia 2L 8 Nos. @ 100mm c/c & rest @ 200 c/c.



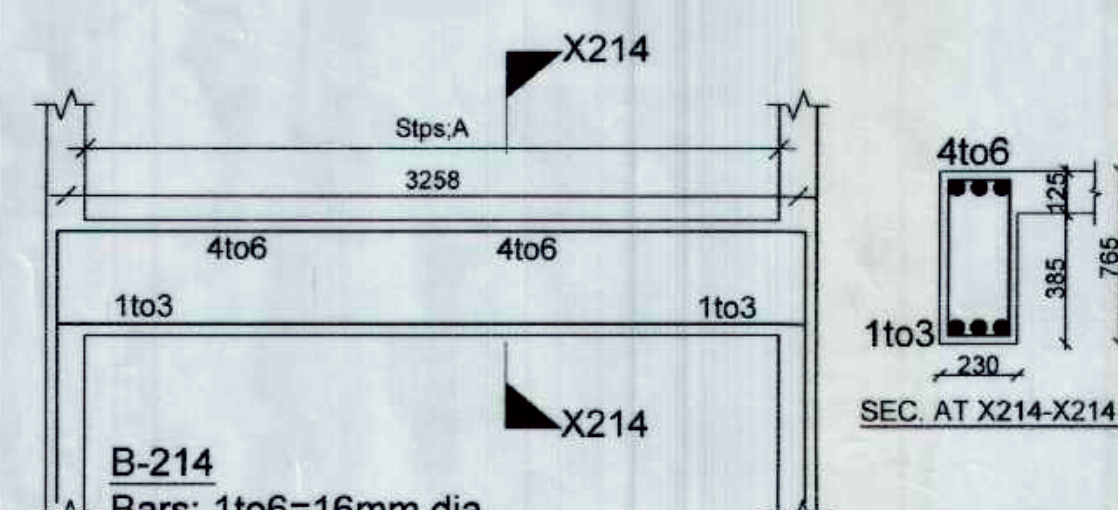
B-208
Bars; 1to9=16mm dia.
Bars; 10to12=20mm dia.
Stps;A=8mm dia 2L 8 Nos. @ 100mm c/c & rest @ 200 c/c.



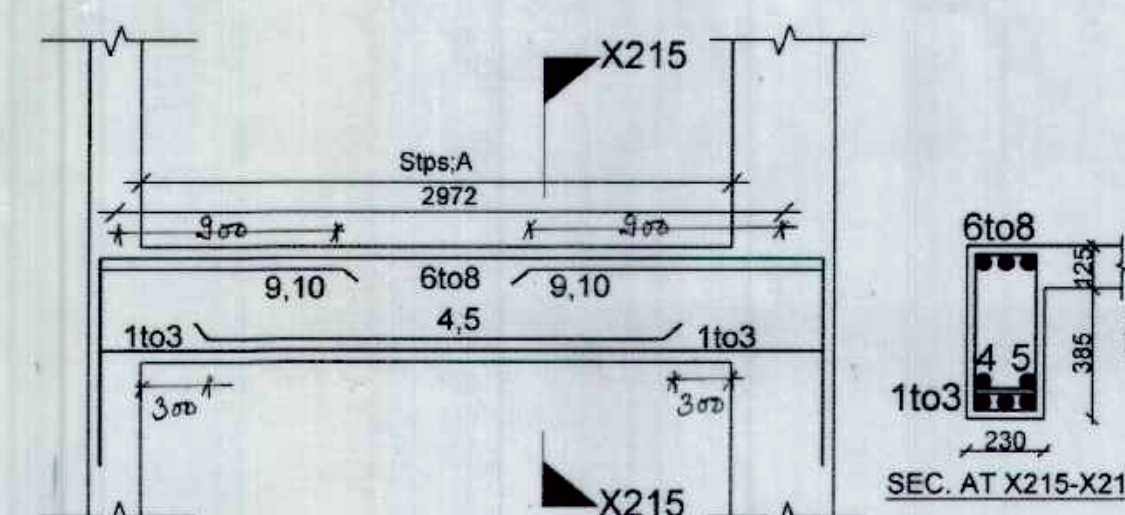
B-210
Bars; 1to11=16mm dia.
Stps;A=8mm dia 2L 8 Nos. @ 100mm c/c & rest @ 200 c/c.



B-213
Bars; 1to10=16mm dia.
Stps;A=8mm dia 2L 8 Nos. @ 100mm c/c & rest @ 200 c/c.

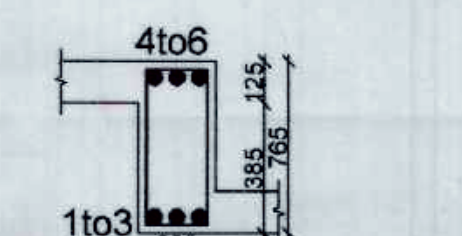


B-214
Bars; 1to6=16mm dia.
Stps;A=8mm dia 2L 8 Nos. @ 100mm c/c & rest @ 200 c/c.

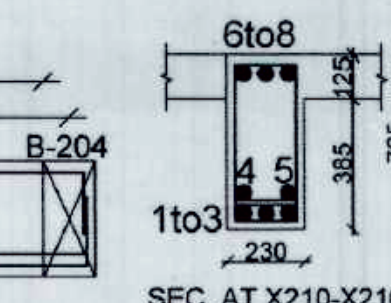


B-215
Bars; 1to10=16mm dia.
Stps;A=8mm dia 2L 8 Nos. @ 100mm c/c & rest @ 200 c/c.

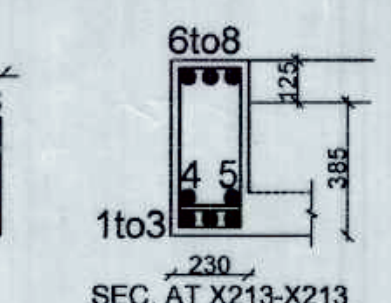
CB-1, CB-2
Bars; 1to8=16mm dia.
Stps;B=8mm dia 2L @ 150mm c/c.



B-212
Bars; 1to6=16mm dia.
Stps;B=8mm dia 2L @ 150mm c/c.



B-211
Bars; 1to6=12mm dia.
Stps;B=8mm dia 2L @ 150mm c/c.



NOTES

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- FOR CENTER LINE DIMENSION REFER ARCH.DRG.
- NOT MORE THAN 50% BARS ARE TO BE LAPPED AT ONE LOCATION
- LAP LENGTH / ANCHORAGE LENGTH
58d IN CASE OF FOUNDATION, BEAM & SLAB
45d IN CASE OF COLUMNS, WHERE 'd' IS DIA OF BARS
- CLEAR COVER TO REINF.:
(i) FOUNDATION = 60mm
(ii) BEAM = 30mm
(iii) COLUMN = 40mm
(iv) SLAB = 25mm
- EXTRA BARS TO BE EXTEND 0.3L ON EITHER SIDE OF SUPPORTING BEAM OR COLUMN.
- CONC. USED IS M-20
- SAFE BEARING CAPACITY OF SOIL IS 13.5 t/m^2 FOR RCC COLUMNS & SAFE BEARING CAPACITY OF SOIL IS 12.5 t/m^2 FOR BRICK MASONRY WALLS.
- CEMENT MORTAR USED IN BRICK MASONRY WALLS:-
(a) FOR 230MM THK IS CM1:6
(b) FOR 115MM THK IS CM1:4

CONSULTANTS:

SYAL & ASSOCIATES
(Chartered Engineers, Architects, Surveyors & Land Planners)
F-91, PHASE VII,
INDUSTRIAL AREA,
MOHALI (Pb) PH 0172-2236219

CLIENT:-

PROJECT:-

**THREE BED ROOM
HOUSING SCHEME FOR
SECTOR-63, CHANDIGARH
(SIX STOREYED)
(G+5)/(S+5)**

REVISION:

S T R U C T U R E

BEAM DETAILS

STRUCTURAL CONSULTANT: Dr. I.C. Syal

SIGNATURE & STAMP:

DRAWN BY:

ESHA

SCALE:

N.T.S.

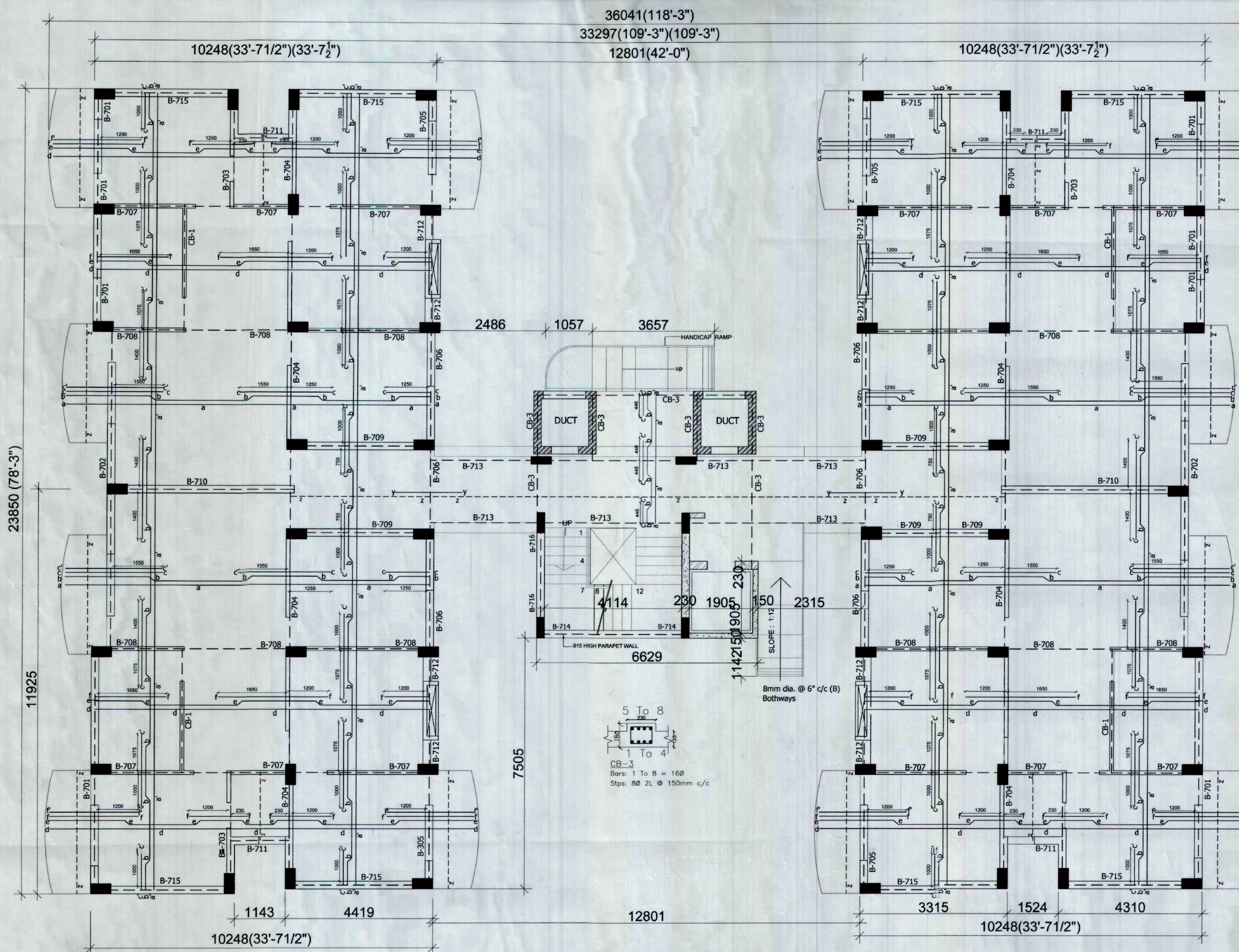
DATE:

26-06-2009

DRG. NO.:

S-307

DRG. No. 09, JOB No. 140



NOTES

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- FOR CENTER LINE DIMENSION REFER ARCH.DRG.
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- LAP LENGTH / ANCHORAGE LENGTH
58d IN CASE OF FOUNDATION, BEAM & SLAB
45d IN CASE OF COLUMNS, WHERE 'd' IS DIA OF BARS
- CLEAR COVER TO REINF.:
(i) FOUNDATION = 60mm
(ii) BEAM = 30mm
(iii) COLUMN = 40mm
(iv) SLAB = 25mm
- EXTRA BARS TO BE EXTEND 0.3L ON EITHER SIDE OF SUPPORTING BEAM OR COLUMN.
- CONC. USED IS M-20
- SAFE BEARING CAPACITY OF SOIL IS 13.5 t/m² FOR RCC COLUMNS & 12.5 t/m² FOR BRICK MASONRY WALLS.
- CEMENT MORTAR USED IN BRICK MASONRY WALLS:-
(a) FOR 230MM THK IS CM1:6
(b) FOR 115MM THK IS CM1:4

DETAIL OF STEEL REINFORCEMENT

- SLAB THICKNESS = 125 MM THK.
- CONC. USED = M20

SCHEDULE OF BARS	FACE
a = 10 mm dia. @ 400mm c/c.	(B)
a' = 8 mm dia. @ 400mm c/c.	(B)
b = 10 mm dia. @ 400mm c/c.	(C)
c = 12 mm dia. @ 400mm c/c.	(T)
c' = 10 mm dia. @ 400mm c/c.	(T)
d = 8 mm dia. @ 400mm c/c.	(B)
e = 8 mm dia. @ 400mm c/c.	(C)
f = 10 mm dia. @ 400mm c/c.	(T)
f' = 10 mm dia. @ 200mm c/c.	(T)

Distt. Bars:
y = 10 mm dia @ 150mm c/c. (T&B)
z = 8 mm dia @ 200mm c/c. (T&B)

NOTE:

B Bottom
C Crank
T Top

CONSULTANTS:

SYAL & ASSOCIATES

(Chartered Engineers, Architects, Surveyors & Land Planners)
F-91, PHASE VII,
INDUSTRIAL AREA,
MOHALI (Pb) PH 0172-2236219

CLIENT:-

PROJECT:- **THREE BED ROOM
HOUSING SCHEME FOR
SECTOR-63, CHANDIGARH
(SIX STOREYED)
(G+5)/(S+5)**

REVISION:

STRUCTURE

TERRACE ROOF SLAB REINF. DETAIL,
CB-3

STRUCTURAL CONSULTANT: Dr. I. C. Syal

SIGNATURE & STAMP:

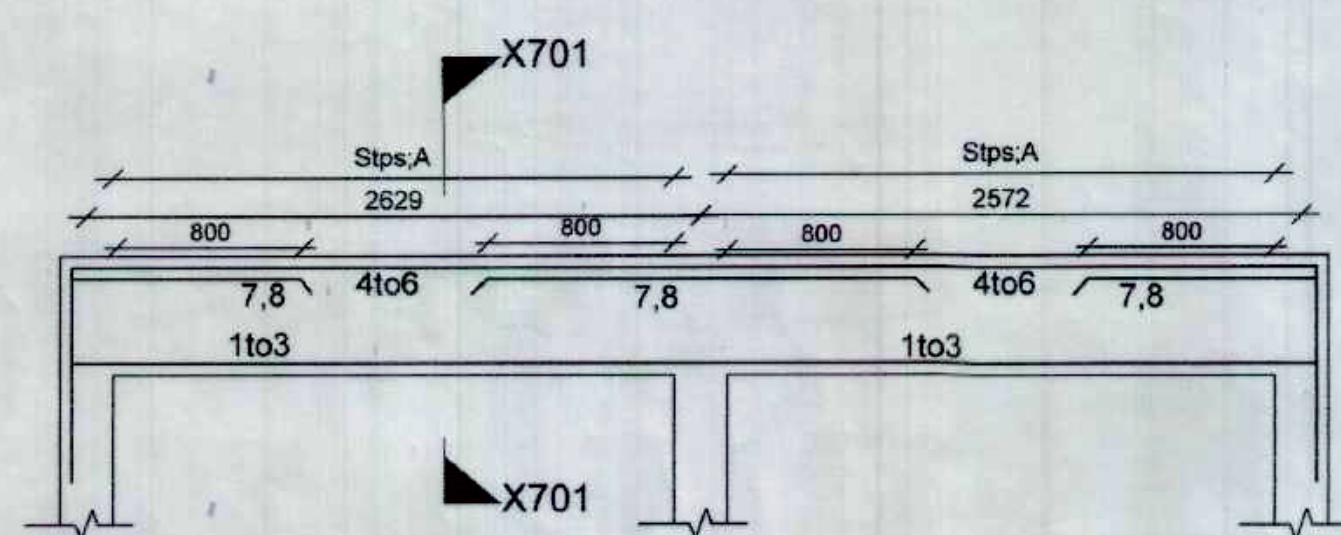
DRAWN BY: ESHA

SCALE: N.T.S.

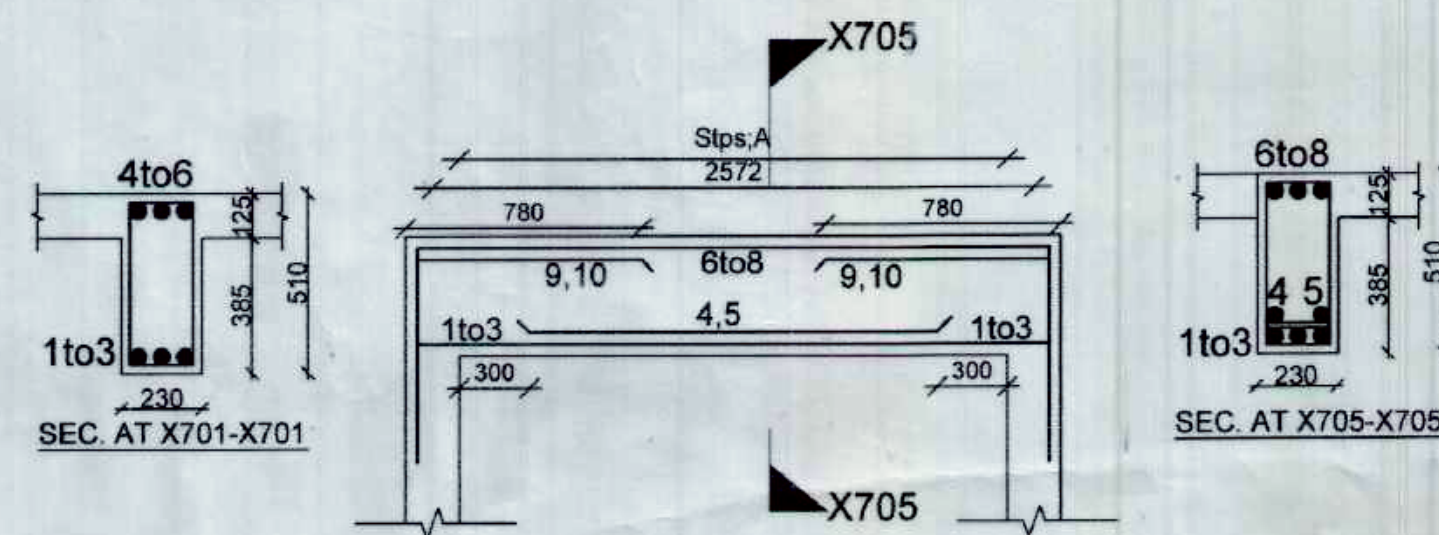
DATE: 30-06-2009

DRG. NO.: S-308

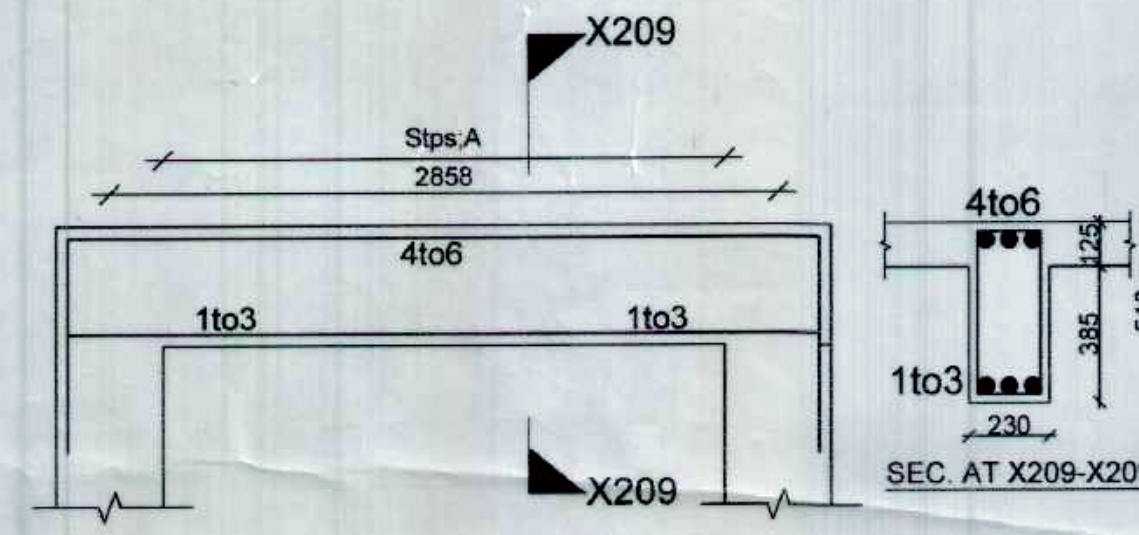
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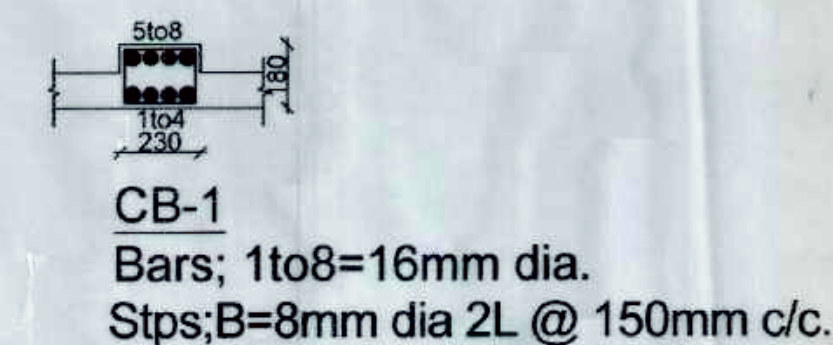
B-701
Bars: 1to3, 7, 8=16mm dia.
4 to 6=12mm dia.
Stps; A=8mm dia 2L 8 Nos. @ 100mm c/c & rest @ 200 c/c.



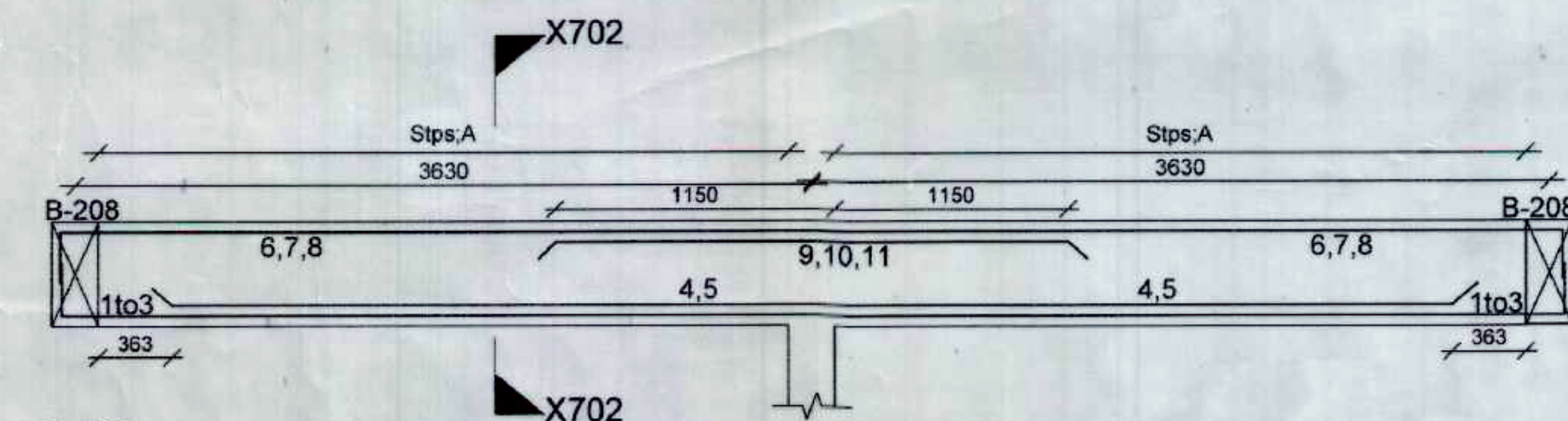
B-705
Bars: 1to3, 9, 10=16mm dia.
4 to 8=12mm dia.
Stps; A=8mm dia 2L 8 Nos. @ 100mm c/c & rest @ 200 c/c.



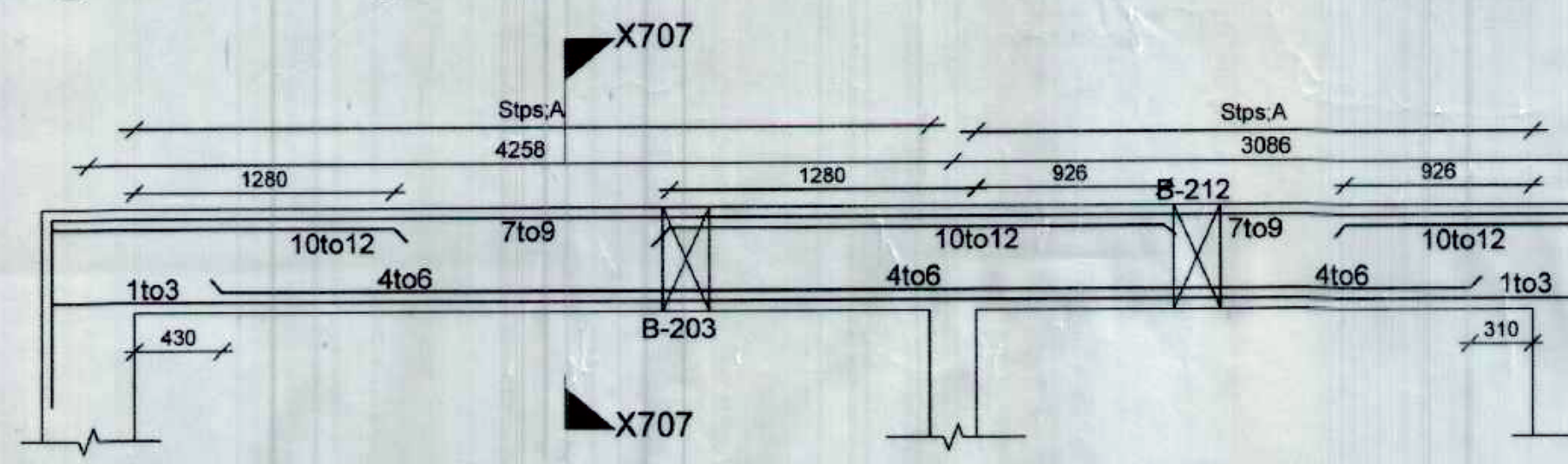
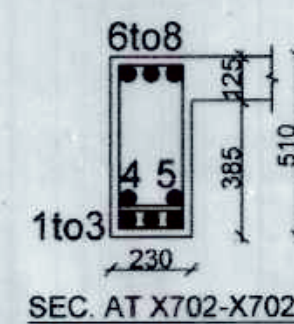
B-209
Bars: 1to6=16mm dia.
Stps; A=8mm dia 2L 8 Nos. @ 100mm c/c & rest @ 200 c/c.



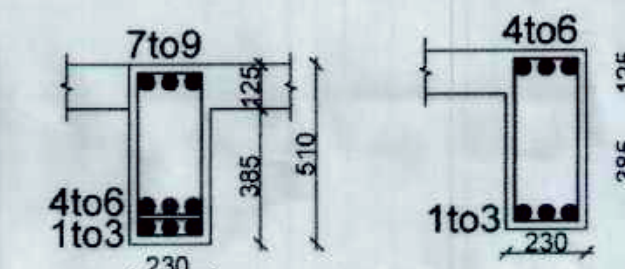
B-1
Bars: 1to8=16mm dia.
Stps; B=8mm dia 2L @ 150mm c/c.



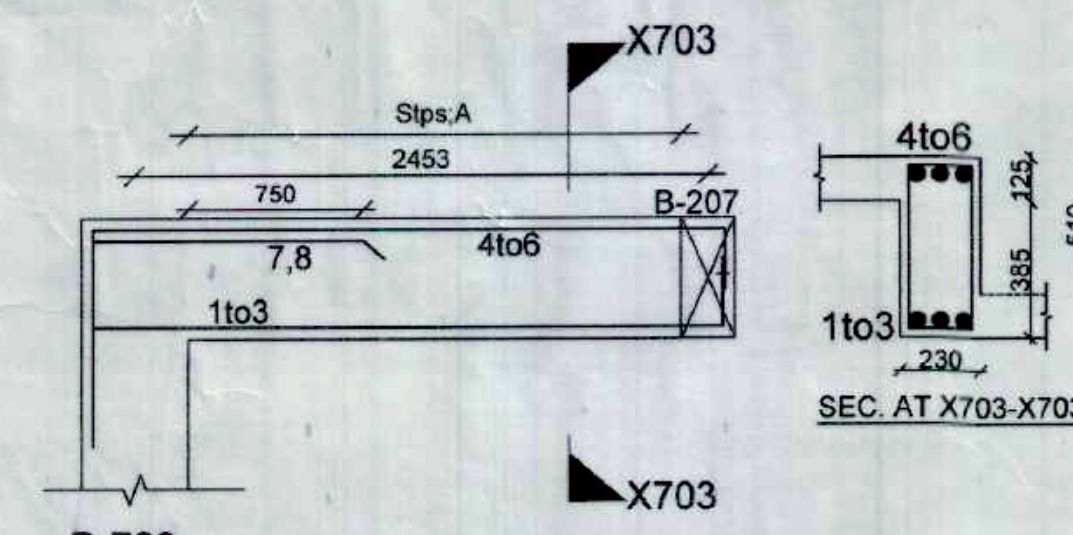
B-702
Bars: 1to3, 9 to 11=16mm dia.
4 to 8=12mm dia.
Stps; A=8mm dia 2L 8 Nos. @ 100mm c/c & rest @ 200 c/c.



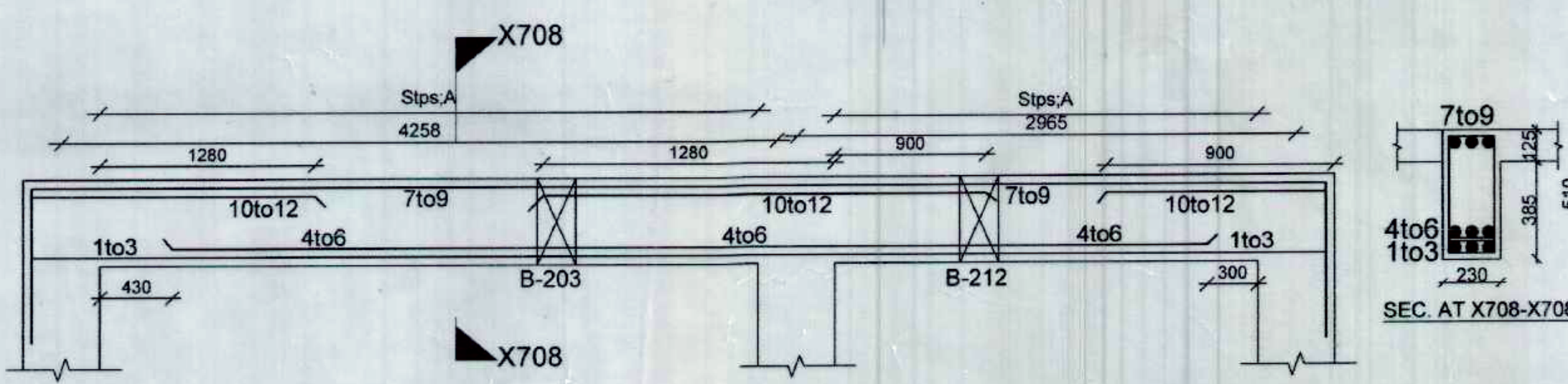
B-707
Bars: 1to12=16mm dia.
Stps; A=8mm dia 2L 8 Nos. @ 100mm c/c & rest @ 200 c/c.



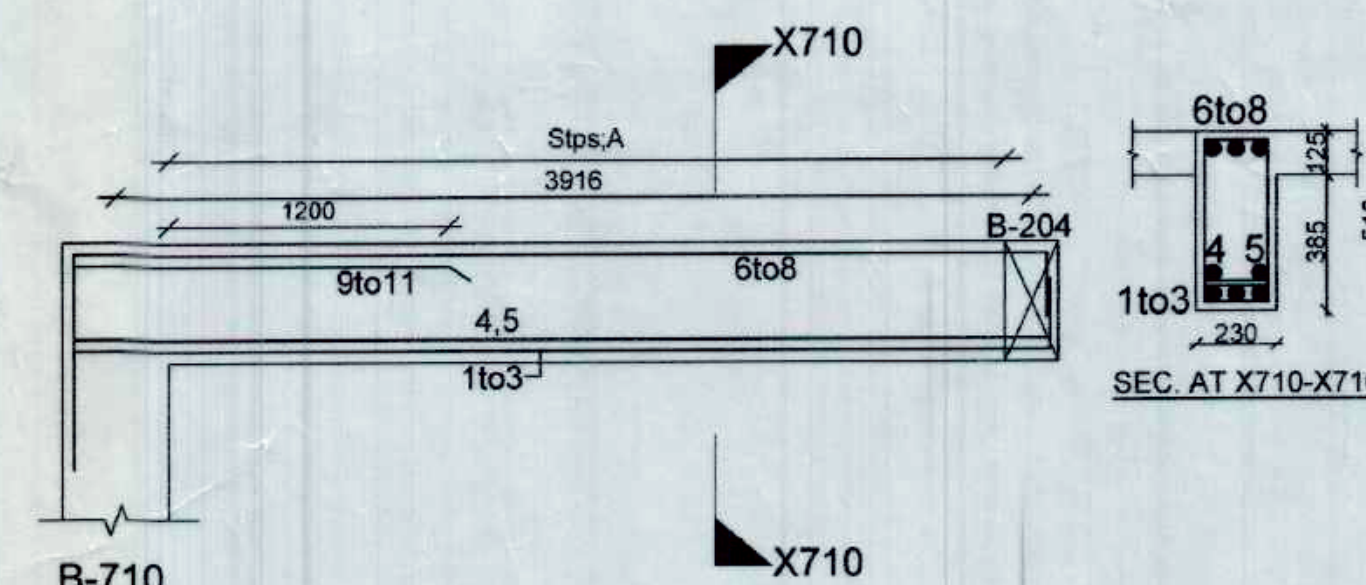
B-712
Bars: 1to6=16mm dia.
Stps; B=8mm dia 2L @ 150mm c/c.



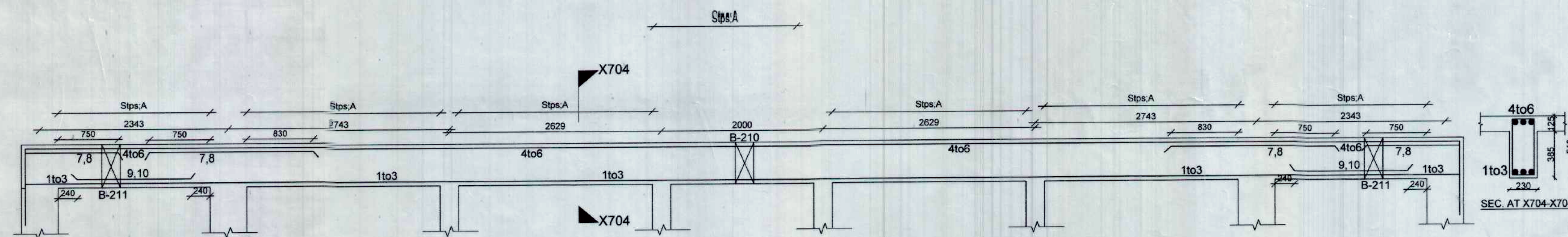
B-703
Bars: 1to6=16mm dia.
7, 8=12mm dia.
Stps; A=8mm dia 2L 8 Nos. @ 100mm c/c & rest @ 200 c/c.



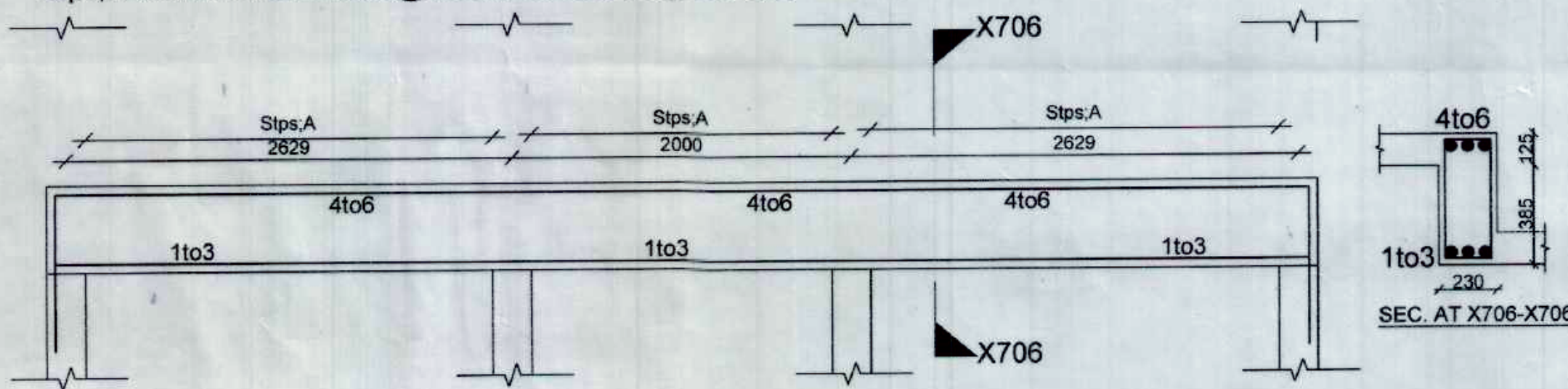
B-708
Bars: 1to12=16mm dia.
Stps; A=8mm dia 2L 8 Nos. @ 100mm c/c & rest @ 200 c/c.



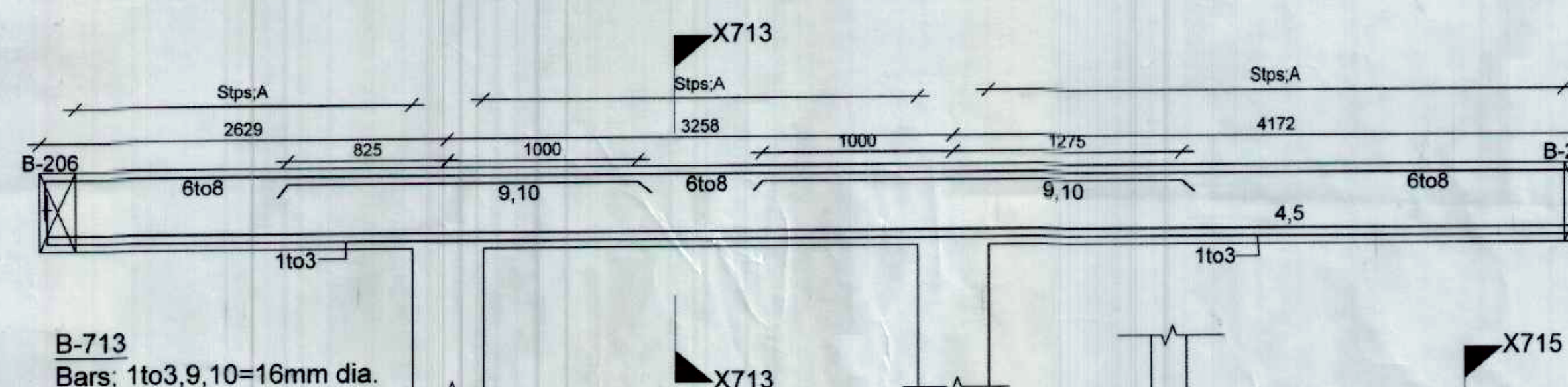
B-710
Bars: 1to3, 9to11=16mm dia.
4to8=12mm dia.
Stps; A=8mm dia 2L 8 Nos. @ 100mm c/c & rest @ 200 c/c.



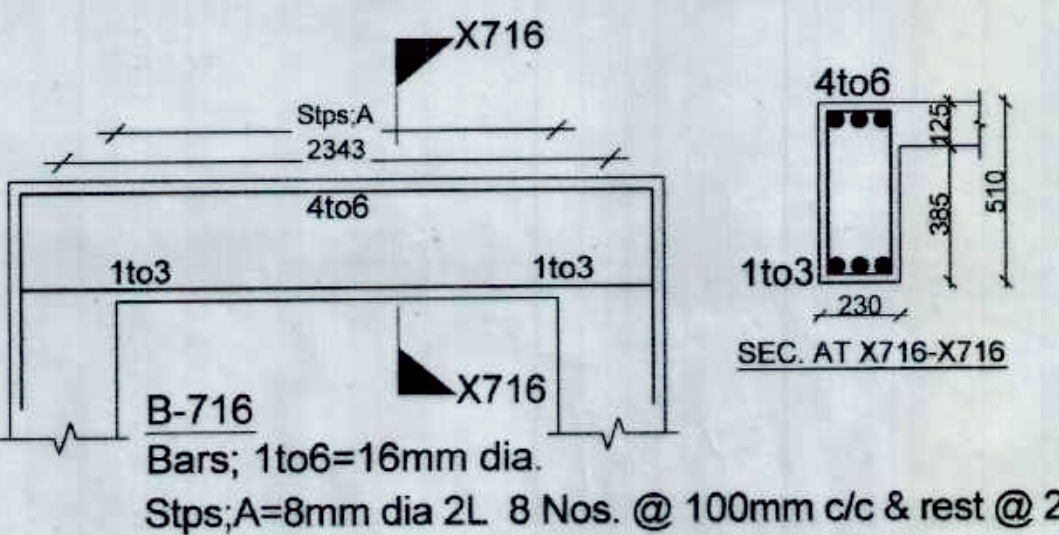
B-704
Bars: 1to16=16mm dia.
7to10=12mm dia.
Stps; A=8mm dia 2L 8 Nos. @ 100mm c/c & rest @ 200 c/c.



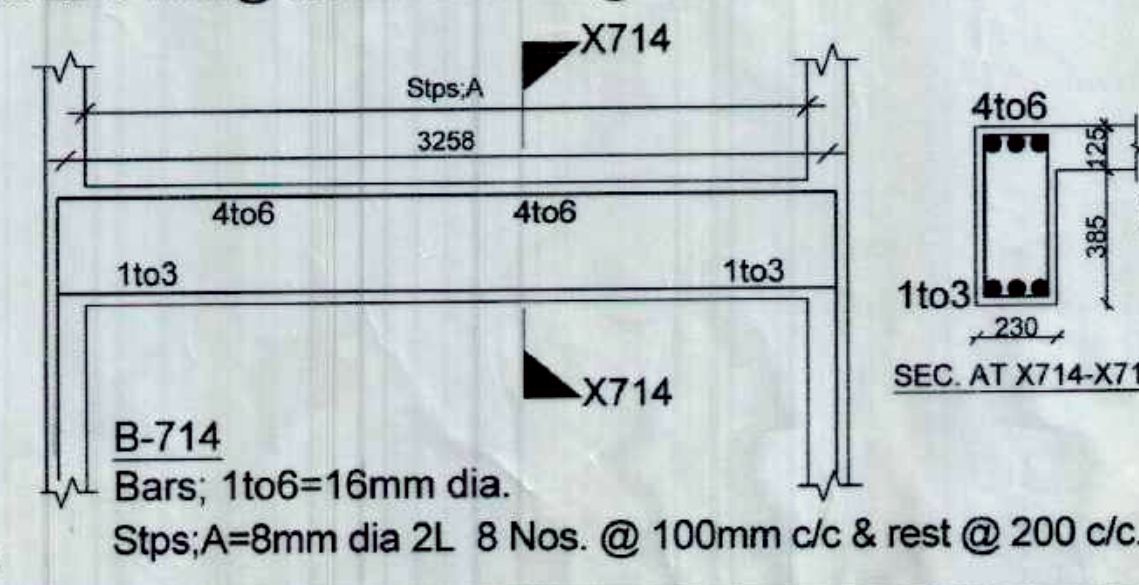
B-706
Bars: 1to6=16mm dia.
Stps; A=8mm dia 2L 8 Nos. @ 100mm c/c & rest @ 200 c/c.



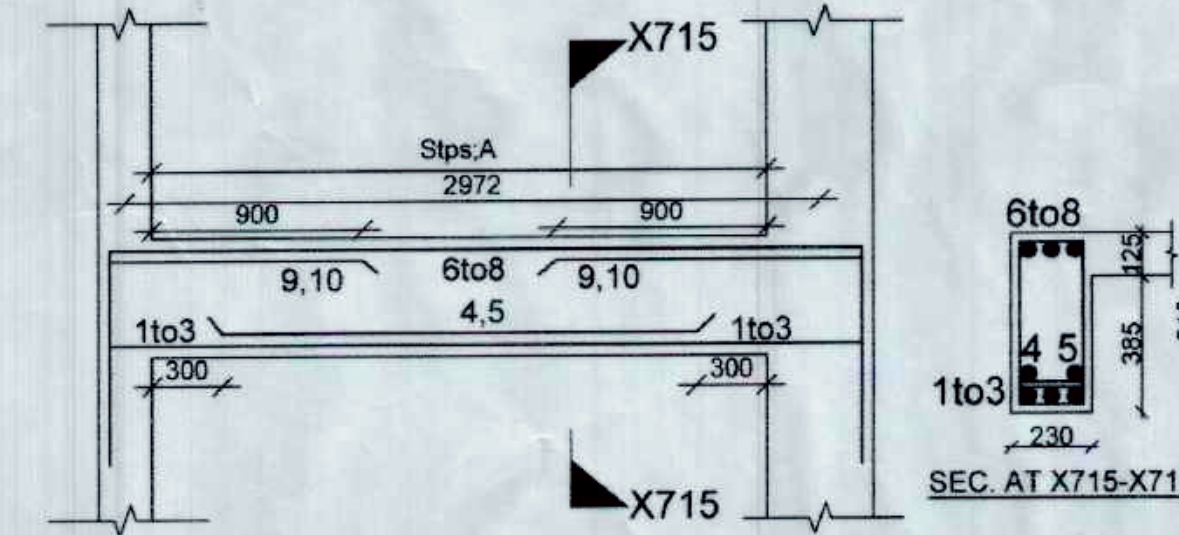
B-713
Bars: 1to3, 9, 10=16mm dia.
4 to 8=12mm dia.
Stps; A=8mm dia 2L 8 Nos. @ 100mm c/c & rest @ 200 c/c.



B-716
Bars: 1to6=16mm dia.
Stps; A=8mm dia 2L 8 Nos. @ 100mm c/c & rest @ 200 c/c.



B-714
Bars: 1to6=16mm dia.
Stps; A=8mm dia 2L 8 Nos. @ 100mm c/c & rest @ 200 c/c.



B-715
Bars: 1to3, 9, 10=16mm dia.
4to8=12mm dia.
Stps; A=8mm dia 2L 8 Nos. @ 100mm c/c & rest @ 200 c/c.

NOTES

- DIMENSIONS ARE TO BE READ NOT TO BE SCALED
- CONTRACTOR IS TO CHECK ALL DIMENSIONS BEFORE EXECUTION OF WORK
- 3Ø INDICATES THE DIA OF HYSD BARS OF GRADE Fe415 REFER TO IS: 1786, 1979
- FOR CENTER LINE DIMENSION REFER ARCH.DRG.
- NOT MORE THAN 50% BARS ARE TO BE LAPPED AT ONE LOCATION
- LAP LENGTH / ANCHORAGE LENGTH
58d IN CASE OF FOUNDATION, BEAM & SLAB
45d IN CASE OF COLUMNS, WHERE 'd' IS DIA OF BARS
- CLEAR COVER TO REINF.:
(i) FOUNDATION = 60mm
(ii) BEAM = 30mm
(iii) COLUMN = 40mm
(iv) SLAB = 25mm
- EXTRA BARS TO BE EXTEND 0.3L ON EITHER SIDE OF SUPPORTING BEAM OR COLUMN.
- CONC. USED IS M-20
- SAFE BEARING CAPACITY OF SOIL IS 13.5 t/m² FOR RCC COLUMNS & SAFE BEARING CAPACITY OF SOIL IS 12.5 t/m² FOR BRICK MASONRY WALLS.
- CEMENT MORTAR USED IN BRICK MASONRY WALLS:-
(a) FOR 230MM THK IS CM1:6
(b) FOR 115MM THK IS CM1:4

CONSULTANTS

SYAL & ASSOCIATES

(Chartered Engineers, Architects, Surveyors & Land Planners)
F-91, PHASE VII,
INDUSTRIAL AREA,
MOHALI (Pb) PH 0172-2236219

CLIENT

PROJECT

**THREE BED ROOM
HOUSING SCHEME FOR
SECTOR-63, CHANDIGARH
(SIX STOREYED)
(G+5)/(S+5)**

REVISION

STRUCTURE

BEAM DETAILS

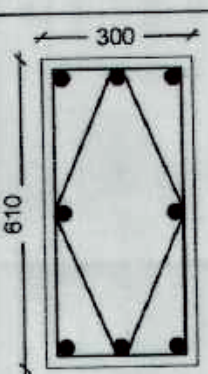
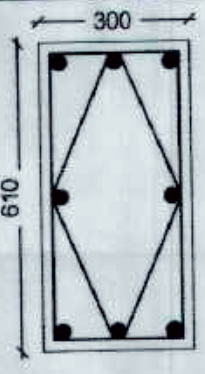
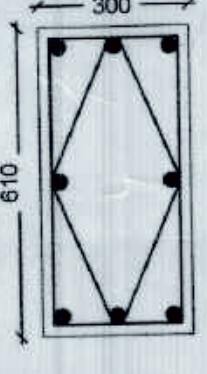
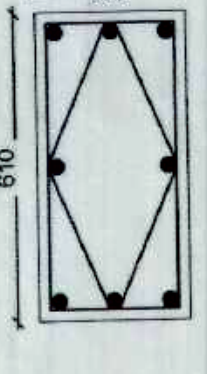
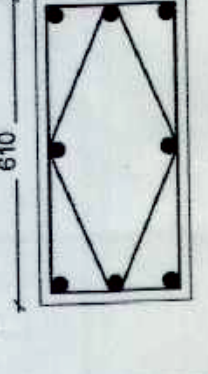
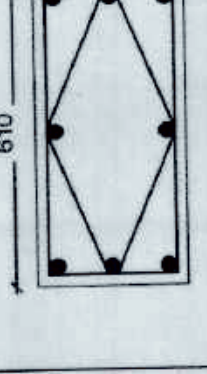
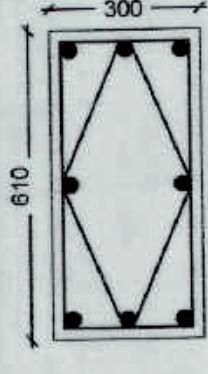
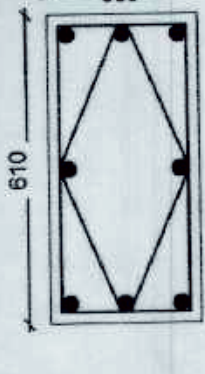
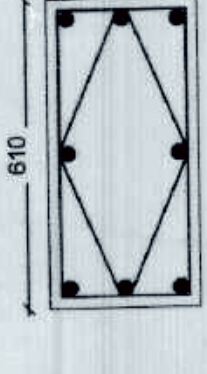
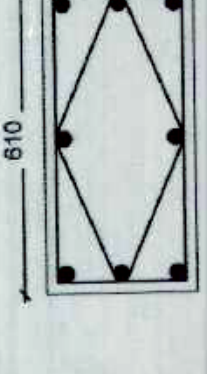
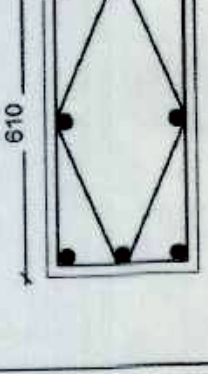
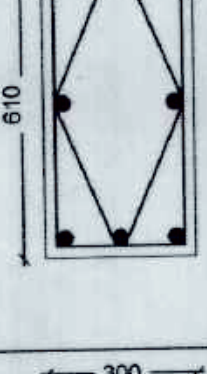
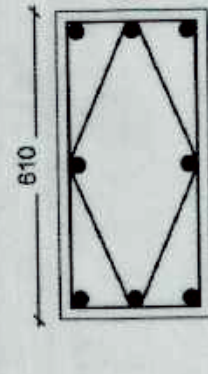
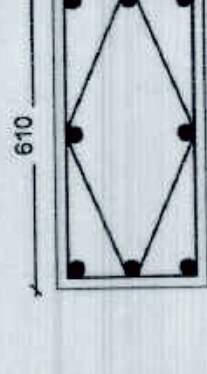
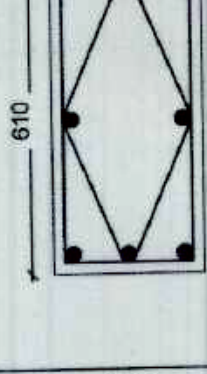
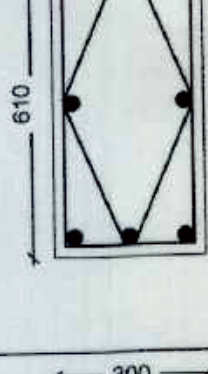
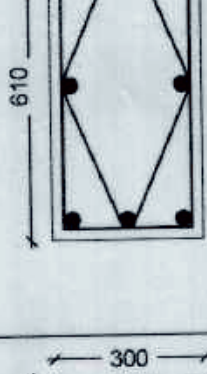
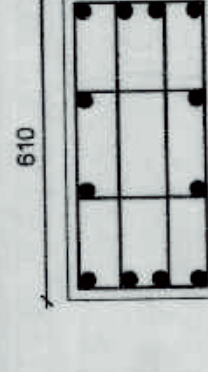
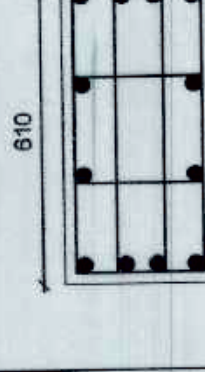
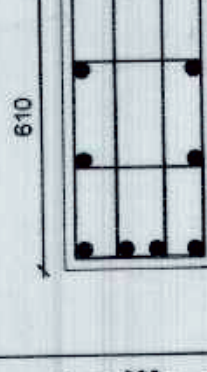
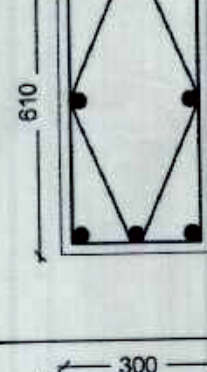
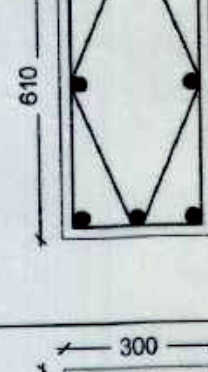
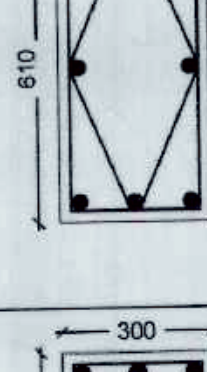
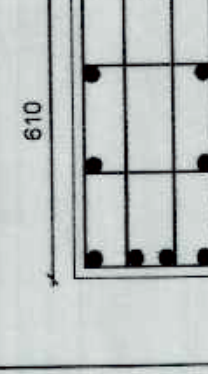
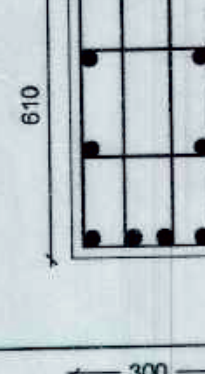
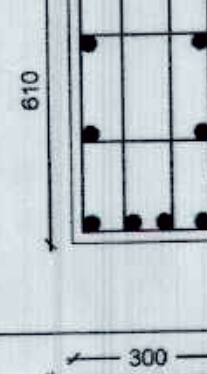
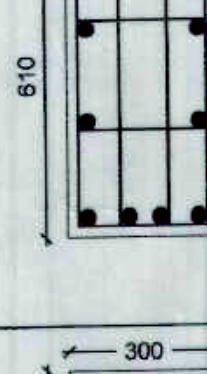
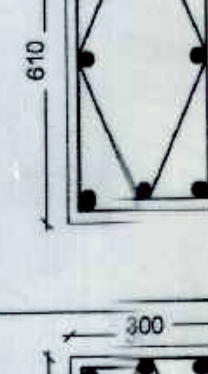
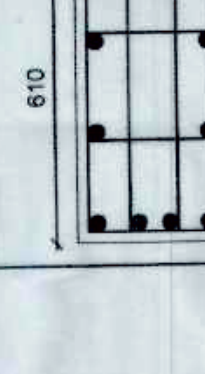
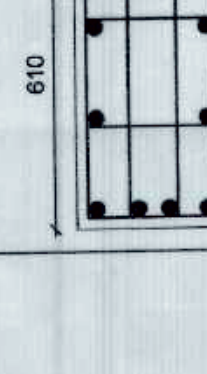
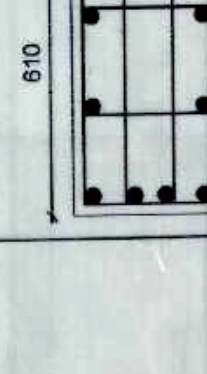
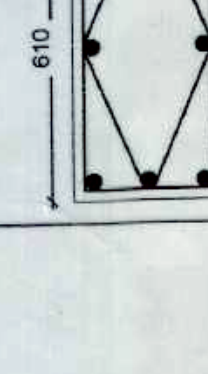
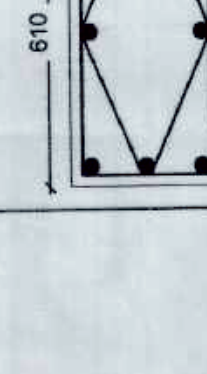
STRUCTURAL CONSULTANT: Dr. I. C. Syal

SIGNATURE & STAMP:

DRAWN BY: ESHA
SCALE: N.T.S.
DATE: 26-06-2009
DRG. NO.: S-309

DRG. No. 11, JOB No. 140

SCHEDULE OF COLUMNS

COLUMNS	C-1		C-2		C-3		C-4		C-5		C-6	
FLR. LVL.	SIZE & SHAPE	REINFORCEMENT	SIZE & SHAPE	REINFORCEMENT	SIZE & SHAPE	REINFORCEMENT	SIZE & SHAPE	REINFORCEMENT	SIZE & SHAPE	REINFORCEMENT	SIZE & SHAPE	REINFORCEMENT
TERRACE TO FIFTH FLOOR		VERT. ST. 16Ø 8Nos. TIES: 8Ø 2 sets @ 200mm c/c		VERT. ST. 16Ø 8Nos. TIES: 8Ø 2 sets @ 200mm c/c		VERT. ST. 16Ø 8Nos. TIES: 8Ø 2 sets @ 200mm c/c		VERT. ST. 16Ø 8Nos. TIES: 8Ø 2 sets @ 200mm c/c		VERT. ST. 16Ø 8Nos. TIES: 8Ø 2 sets @ 200mm c/c		VERT. ST. 16Ø 8Nos. TIES: 8Ø 2 sets @ 200mm c/c
FIFTH FLOOR TO FOURTH FLOOR		VERT. ST. 20Ø 4Nos + 16Ø 4Nos. TIES: 8Ø 2 sets @ 200mm c/c		VERT. ST. 16Ø 8Nos. TIES: 8Ø 2 sets @ 200mm c/c		VERT. ST. 20Ø 4Nos + 16Ø 4Nos. TIES: 8Ø 2 sets @ 200mm c/c		VERT. ST. 16Ø 8Nos. TIES: 8Ø 2 sets @ 200mm c/c		VERT. ST. 16Ø 8Nos. TIES: 8Ø 2 sets @ 200mm c/c		VERT. ST. 16Ø 8Nos. TIES: 8Ø 2 sets @ 200mm c/c
FOURTH FLOOR TO THIRD FLOOR		VERT. ST. 20Ø 8Nos. TIES: 8Ø 2 sets @ 200mm c/c		VERT. ST. 16Ø 12Nos. TIES: 8Ø 3 sets @ 200mm c/c		VERT. ST. 20Ø 8Nos. TIES: 8Ø 2 sets @ 200mm c/c		VERT. ST. 16Ø 8Nos. TIES: 8Ø 2 sets @ 200mm c/c		VERT. ST. 20Ø 4Nos + 16Ø 4 Nos. TIES: 8Ø 2 sets @ 200mm c/c		VERT. ST. 20Ø 4Nos + 16Ø 4Nos. TIES: 8Ø 2 sets @ 200mm c/c
THIRD FLOOR TO SECOND FLOOR		VERT. ST. 20Ø 12Nos. TIES: 8Ø 3 sets @ 200mm c/c		VERT. ST. 20Ø 4Nos. + 16Ø 8Nos. TIES: 8Ø 3 sets @ 200mm c/c		VERT. ST. 20Ø 12Nos. TIES: 8Ø 3 sets @ 200mm c/c		VERT. ST. 20Ø 4Nos. + 16Ø 4Nos. TIES: 8Ø 2 sets @ 200mm c/c		VERT. ST. 20Ø 4Nos + 16Ø 4 Nos. TIES: 8Ø 2 sets @ 200mm c/c		VERT. ST. 20Ø 4Nos. + 16Ø 4Nos. TIES: 8Ø 2 sets @ 200mm c/c
SECOND FLOOR TO FIRST FLOOR		VERT. ST. 25Ø 8Nos + 20Ø 4Nos. TIES: 8Ø 3 sets @ 200mm c/c		VERT. ST. 20Ø 12Nos. TIES: 8Ø 3 sets @ 200mm c/c		VERT. ST. 25Ø 4Nos + 20Ø 8Nos. TIES: 8Ø 3 sets @ 200mm c/c		VERT. ST. 20Ø 8Nos + 16Ø 4Nos. TIES: 8Ø 3 sets @ 200mm c/c		VERT. ST. 20Ø 8Nos TIES: 8Ø 2 sets @ 200mm c/c		VERT. ST. 20Ø 4Nos + 16Ø 4Nos. TIES: 8Ø 2 sets @ 200mm c/c
FIRST FLOOR TO STILT FLOOR		VERT. ST. 25Ø 8Nos. + 20Ø 4Nos. TIES: 8Ø 3 sets @ 200mm c/c		VERT. ST. 20Ø 12Nos. TIES: 8Ø 3 sets @ 200mm c/c		VERT. ST. 25Ø 4Nos. + 20Ø 8Nos. TIES: 8Ø 3 sets @ 200mm c/c		VERT. ST. 20Ø 8Nos + 16Ø 4Nos. TIES: 8Ø 3 sets @ 200mm c/c		VERT. ST. 20Ø 8Nos. TIES: 8Ø 2 sets @ 200mm c/c		VERT. ST. 20Ø 4Nos + 16Ø 4Nos. TIES: 8Ø 2 sets @ 200mm c/c

NOTES

- DIMENSIONS ARE TO BE READ NOT TO BE SCALED
- CONTRACTOR IS TO CHECK ALL DIMENSIONS BEFORE EXECUTION OF WORK
- Ø INDICATES THE DIA OF HYSD BARS OF GRADE Fe415 REFER TO IS: 1786,1979
- FOR CENTER LINE DIMENSION REFER ARCH.DRG.
- NOT MORE THAN 50% BARS ARE TO BE LAPPED AT ONE LOCATION
- LAP LENGTH / ANCHORAGE LENGTH
58d IN CASE OF FOUNDATION, BEAM & SLAB
45d IN CASE OF COLUMNS, WHERE 'd' IS DIA OF BARS
- CLEAR COVER TO REINF.:
(i) FOUNDATION = 60mm
(ii) BEAM = 30mm
(iii) COLUMN = 40mm
(iv) SLAB = 25mm
- EXTRA BARS TO BE EXTEND 0.3L ON EITHER SIDE OF SUPPORTING BEAM OR COLUMN.
- CONC. USED IS M-25
- SAFE BEARING CAPACITY OF SOIL IS 13.5 t/m² FOR RCC COLUMN & 12.5 t/m² FOR BRICK MASONRY WALL.
- CEMENT MORTAR USED IN BRICK MASONRY WALLS:-
(a) FOR 230MM THK IS CM 1:6
(b) FOR 115MM THK IS CM 1:4

CONSULTANTS:

SYAL & ASSOCIATES
(Chartered Engineers, Architects, Surveyors & Land Planners)
F-91, PHASE VII,
INDUSTRIAL AREA,
MOHALI (Pb) PH 0172-2236219

CLIENT:-

PROJECT:-

**THREE BED ROOM
HOUSING SCHEME FOR
SECTOR-63, CHANDIGARH
(SIX STOREYED)
(S+5)/(G+5)**

REVISION:

S T R U C T U R E

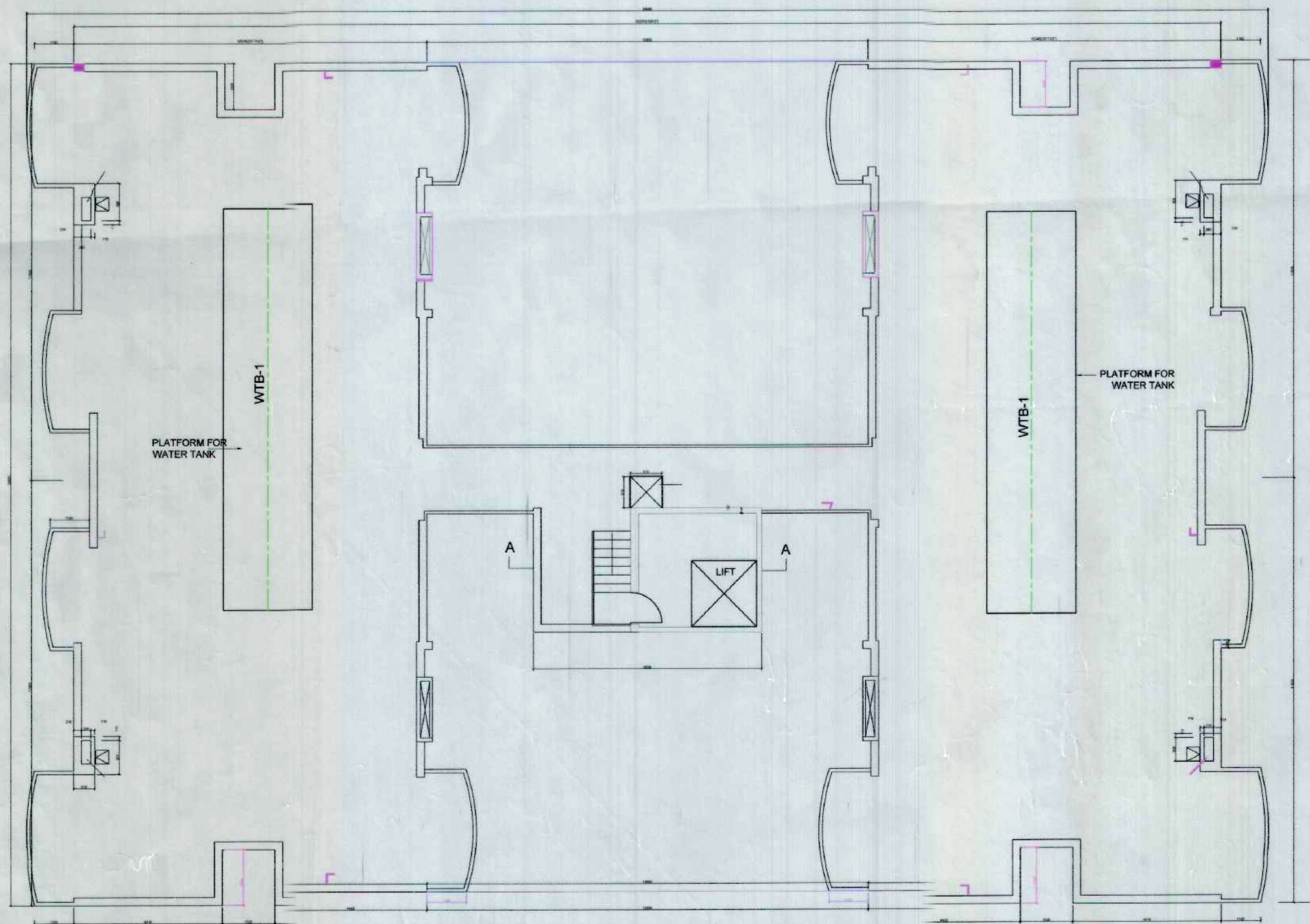
SCHEDULE OF COLUMNS

STRUCTURAL CONSULTANT: Dr. I. C. Syal

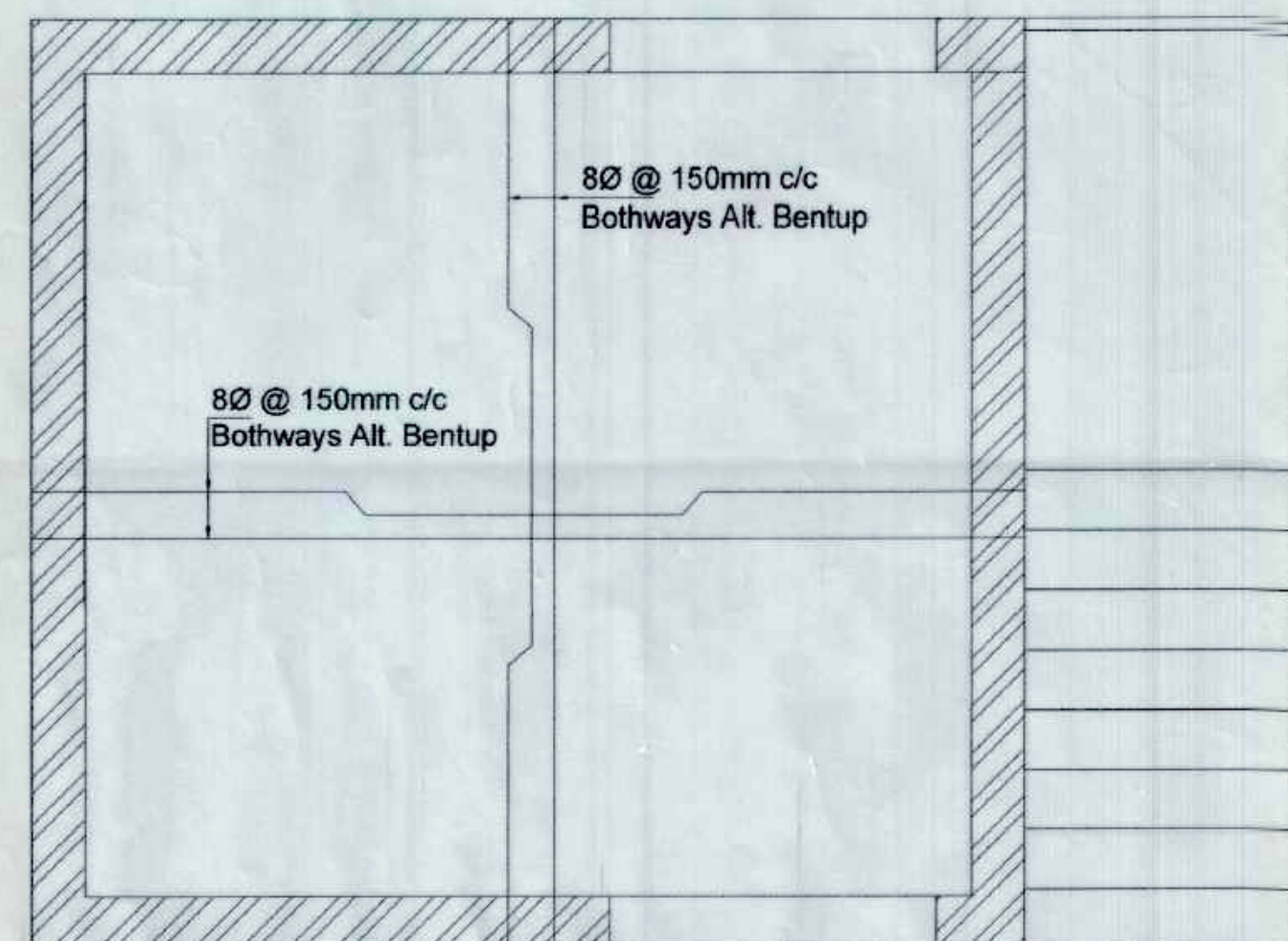
SIGNATURE & STAMP:

DRAWN BY:	ESHA
SCALE:	N.T.S.
DATE:	06-07-2009
DRG. NO.:	S-310

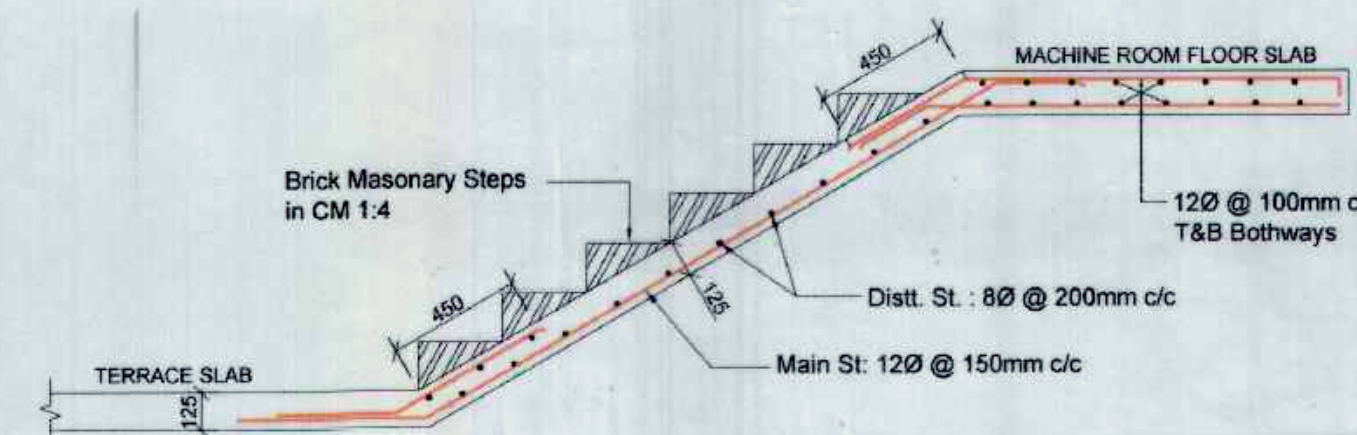
DRG. No. 12, JOB NO. 140



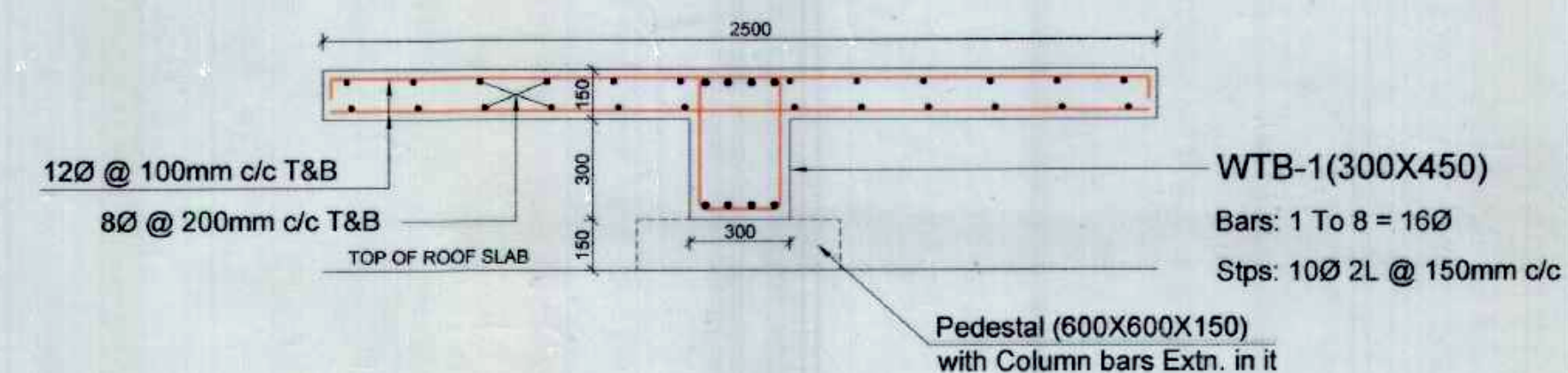
PLAN SHOWING WATER TANK/MACHINE ROOM



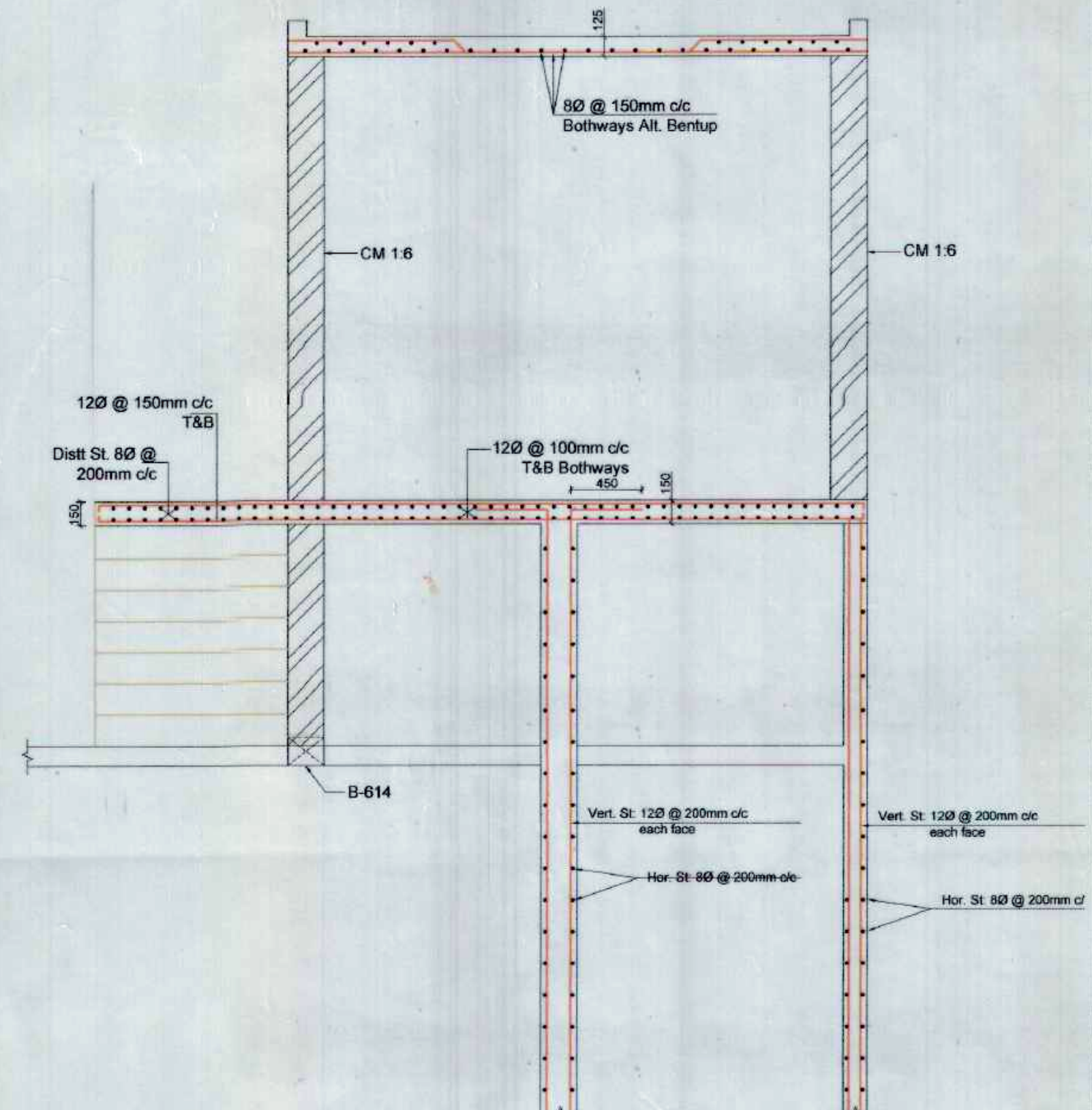
MACHINE ROOM SLAB REINF. DETAIL



STAIR FROM TERRACE SLAB TO MACHINE ROOM FLOOR SLAB



PLATFORM FOR WATER TANKS



SECTION AT A-A

NOTES

- DIMENSIONS ARE TO BE READ NOT TO BE SCALED OFF.
- CONTRACTOR IS TO CHECK ALL DIMENSIONS BEFORE EXECUTION OF WORK.
- Ø INDICATES THE DIA OF HYSD BARS OF GRADE Fe415. REFER TO IS: 1786, 1979.
- FOR CENTER LINE DIMENSIONS REFER ARCH. DRAWINGS.
- NOT MORE THAN 50% BARS ARE TO BE LAPPED AT ONE LOCATION.
- LAP LENGTH / ANCHORAGE LENGTH:-
FOR M20 CONCRETE & STEEL REINFORCEMENT 415

Dia of bar (mm)	Slab/Beams (mm)	Columns (mm)
8	400	300
10	500	400
12	600	450
16	750	500
20	950	750
25	1200	950
- CLEAR COVER TO REINF:-
(i) FOUNDATION = 60mm.
(ii) BEAM = 30mm
(iii) COLUMN = 40mm
(iv) SLAB = 25mm
- EXTRA BARS AT TOP TO EXTEND 0.3L ON EITHER SIDE FROM FACE OF BEAM/COLUMN. WHERE, 'L' IS THE C/C DISTANCE BETWEEN SUPPORTS.
- CONC. USED IS M20.
- NET SAFE BEARING CAPACITY OF SOIL = 13.5 T/m²

CONSULTANTS

SYAL & ASSOCIATES
(Chartered Engineers, Architects, Surveyors & Land Planners)
F-91, PHASE VII,
INDUSTRIAL AREA,
MOHALI (Pb) PH 0172-2236219

CLIENT:

CHANDIGARH HOUSING BOARD

PROJECT:

HOUSING SCHEME FOR SECTOR-63, CHANDIGARH. (SIX STOREY)

THREE BED ROOM FLATS (G+5)/ (S+5)

REVISION:

STRUCTURE

PLATFORM FOR WATER TANK, STAIRCASE FROM TERRACE SLAB TO MACHINE ROOM SLAB, SECTION AT A-A

STRUCTURAL CONSULTANT: Dr. I. C. Syal

SIGNATURE & STAMP:

DRAWN BY:	ESHA
SCALE:	N.T.S.
DATE:	11-07-09
DRG. NO.:	S-311

DRG. No. 13, 20B No. 140