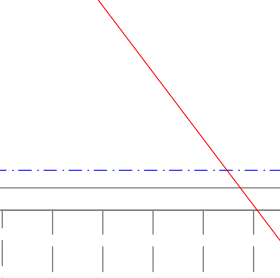
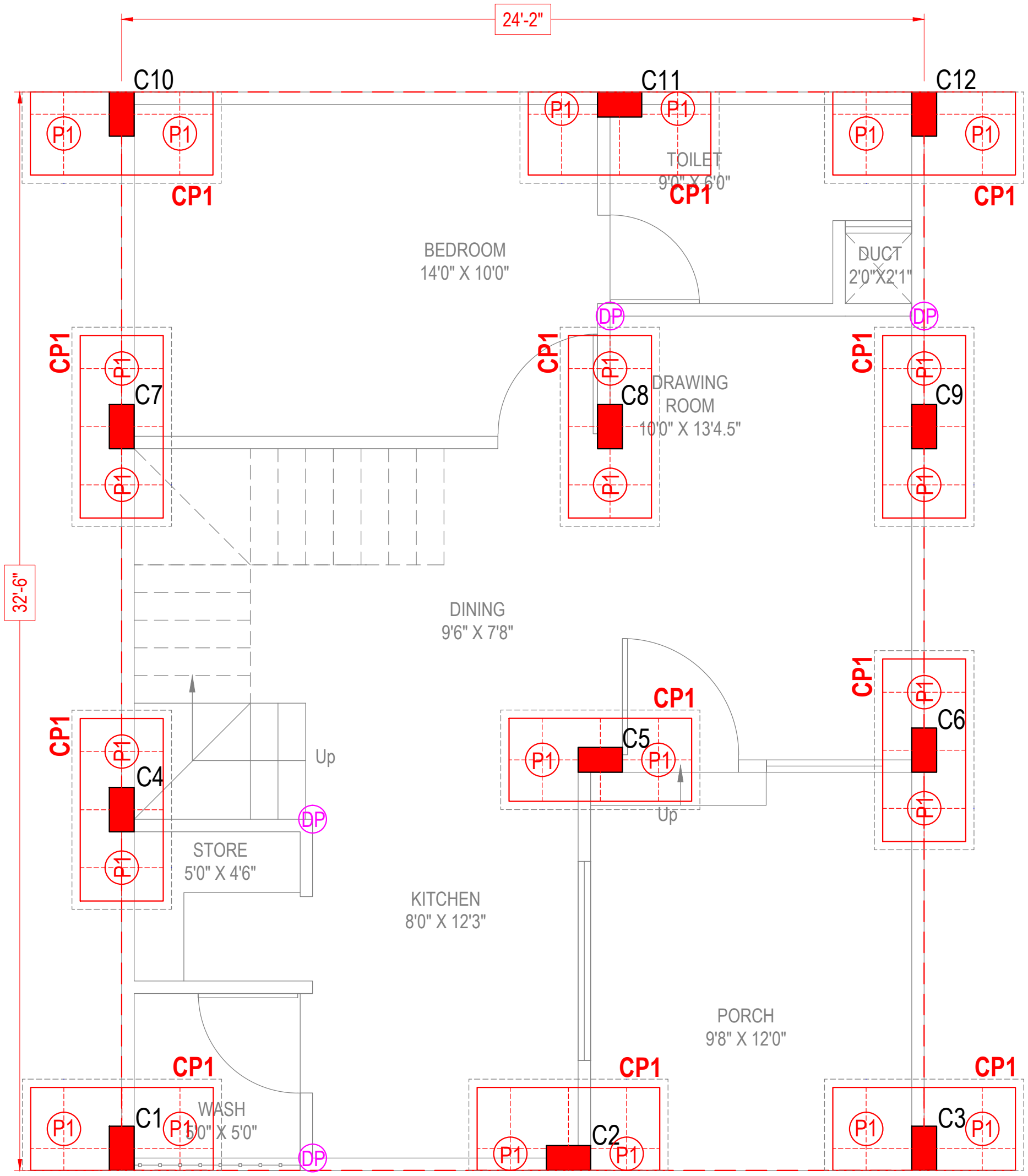
LAYOUT PLAN



COLUMN	
SIZE	9"X16"

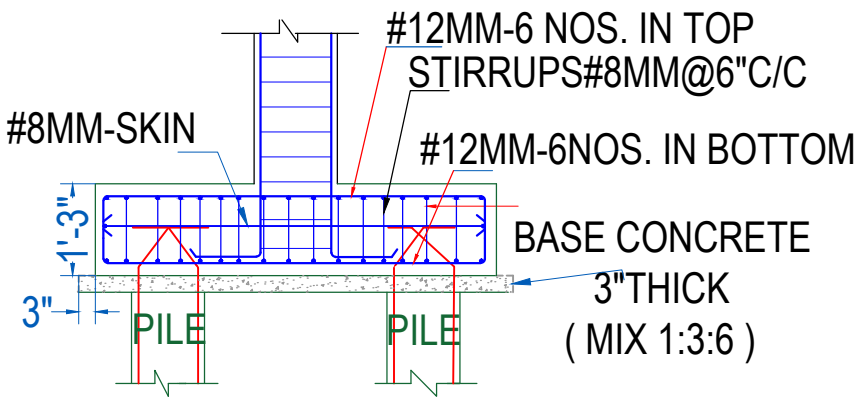
COLUMN CENTER LINE	
COLUMN OFFSET LINE	
DP OFFSET LINE	



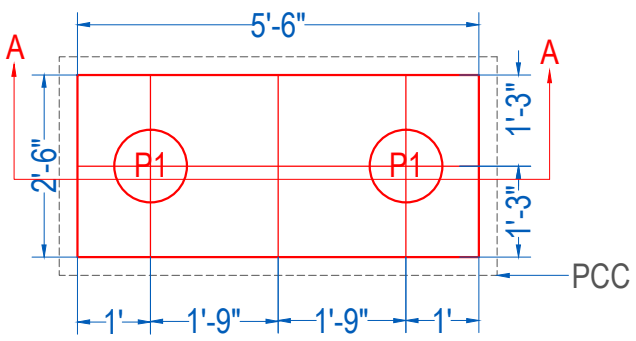
FOUNDATION PLAN

NOTE-

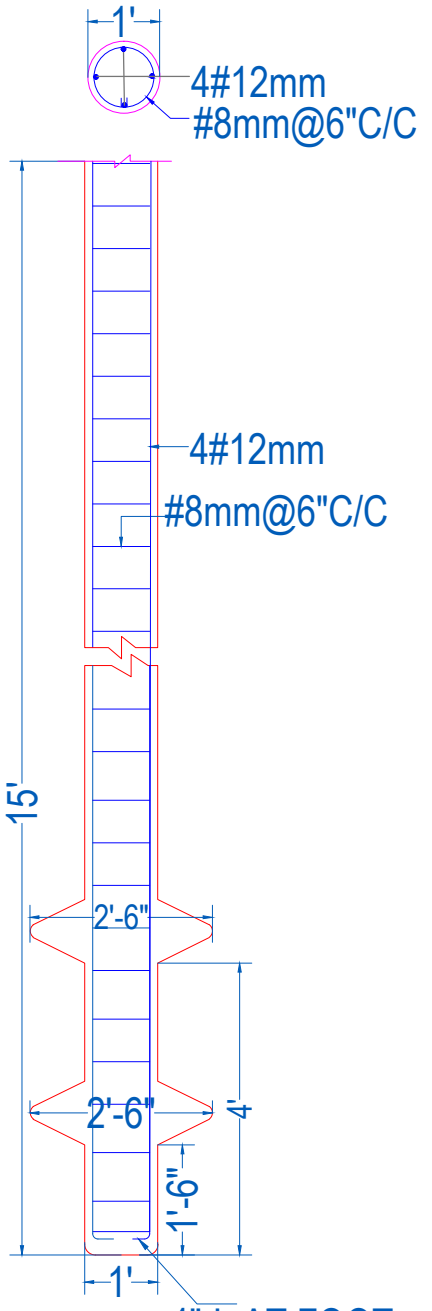
1.MIX-20
2.CONCRETE COVER TO-
CAP - 3"
PILE - 1.5"
3.LAP LENGTH BY-50D
4.USE STEEL - Fe 500
5. SBC CONSIDERED = 100 kN/m2



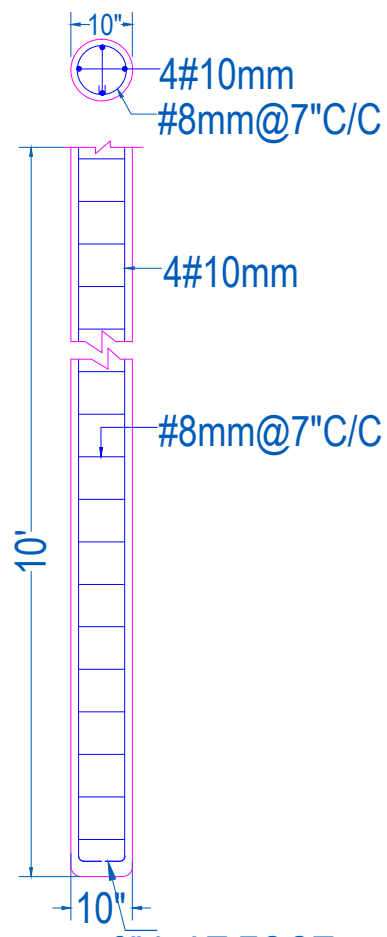
SECTION AT (A-A)



PLAN CP1



P1



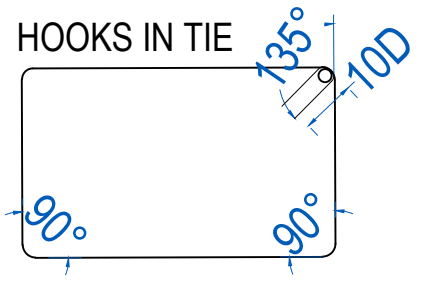
DP

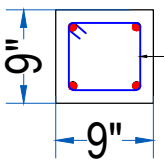
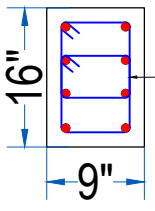
FOUNDATION DETAILS(PILE CAP)

(PILE DETAILS)

COLUMN STEEL DETAILS						
COLUMN NO.	COLUMN SIZE	GROUND FLOOR STEELS	FIRST FLOOR STEELS	STIRRUPS	CONCRETE GRADE	STEEL GRADE
C1	9"X16"	4#16+4#12MM	4#16+4#12MM	#8MM@6"C/C	M-20	FE-500
C2	9"X9"	4#16+4#12MM	4#16+4#12MM	#8MM@6"C/C	M-20	FE-500
C2	9"X16"	4#16+4#12MM	4#16+4#12MM	#8MM@6"C/C	M-20	FE-500
C4	9"X12"	4#16+4#12MM	4#16+4#12MM	#8MM@6"C/C	M-20	FE-500
C5	9"X16"	4#16+4#12MM	4#16+4#12MM	#8MM@6"C/C	M-20	FE-500
C6	9"X16"	4#16+4#12MM	4#16+4#12MM	#8MM@6"C/C	M-20	FE-500
C7	9"X16"	4#16+4#12MM	4#16+4#12MM	#8MM@6"C/C	M-20	FE-500
C8	9"X16"	4#16+4#12MM	4#16+4#12MM	#8MM@6"C/C	M-20	FE-500
C9	9"X16"	4#16+4#12MM	4#16+4#12MM	#8MM@6"C/C	M-20	FE-500
C10	9"X16"	4#16+4#12MM	4#16+4#12MM	#8MM@6"C/C	M-20	FE-500
C11	9"X16"	4#16+4#12MM	4#16+4#12MM	#8MM@6"C/C	M-20	FE-500
C12	9"X16"	4#16+4#12MM	4#16+4#12MM	#8MM@6"C/C	M-20	FE-500

HOOKS IN TIE



STIRRUPS DETAILS		
S. NO.	COLUMN SIZE AND NO. OF BARS	STIRRUPS DETAILS
1.	FOR COLUMN SIZE-(9"X9") DISTRIBUTION DETAILS OF 4 NO. BARS	 STIRRUPS AS PER TABLE
2.	FOR COLUMN SIZE-9"X16" DISTRIBUTION DETAILS OF 8 NO.BARS	 STIRRUPS AS PER TABLE

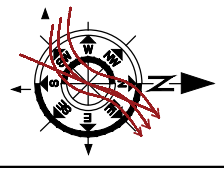
NOTE:-

HOOKS OR STIRRUPS TO BE PLACED ALTERNATE IN VERTICAL REINFORCEMENT OF COLUMN OR HORIZONTAL REINFORCEMENTOF BEAMS

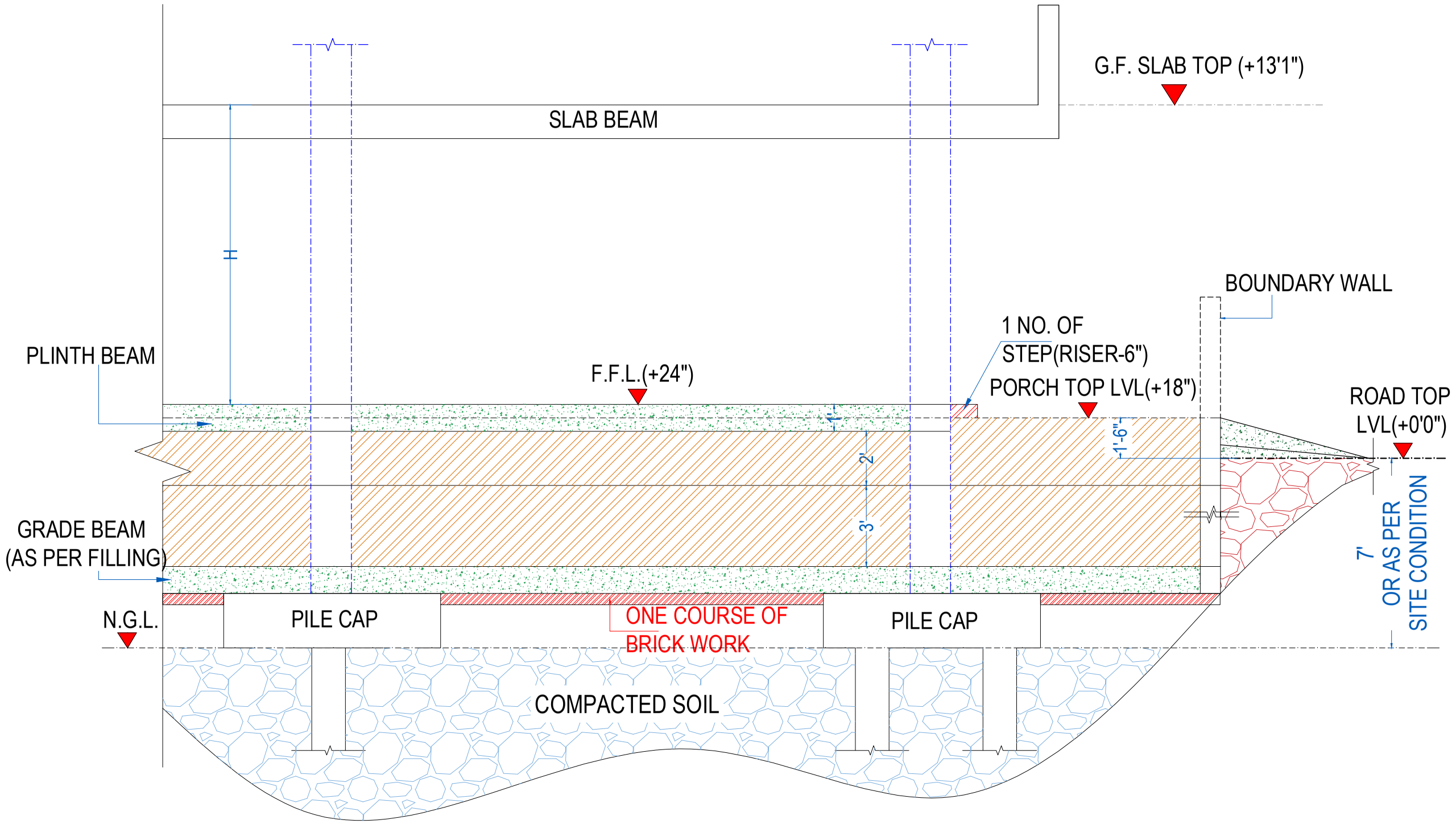
NOTES:-

1.THESE DRAWINGS ARE NOT TO SCALE ONLY WRITTEN DIMENSION SHOULD BE TREATED AS CORRECT.
2.COLUMN COVER-1.5"
3.LAP LENGTH BY 50D WHERE D=DIA. OF BAR

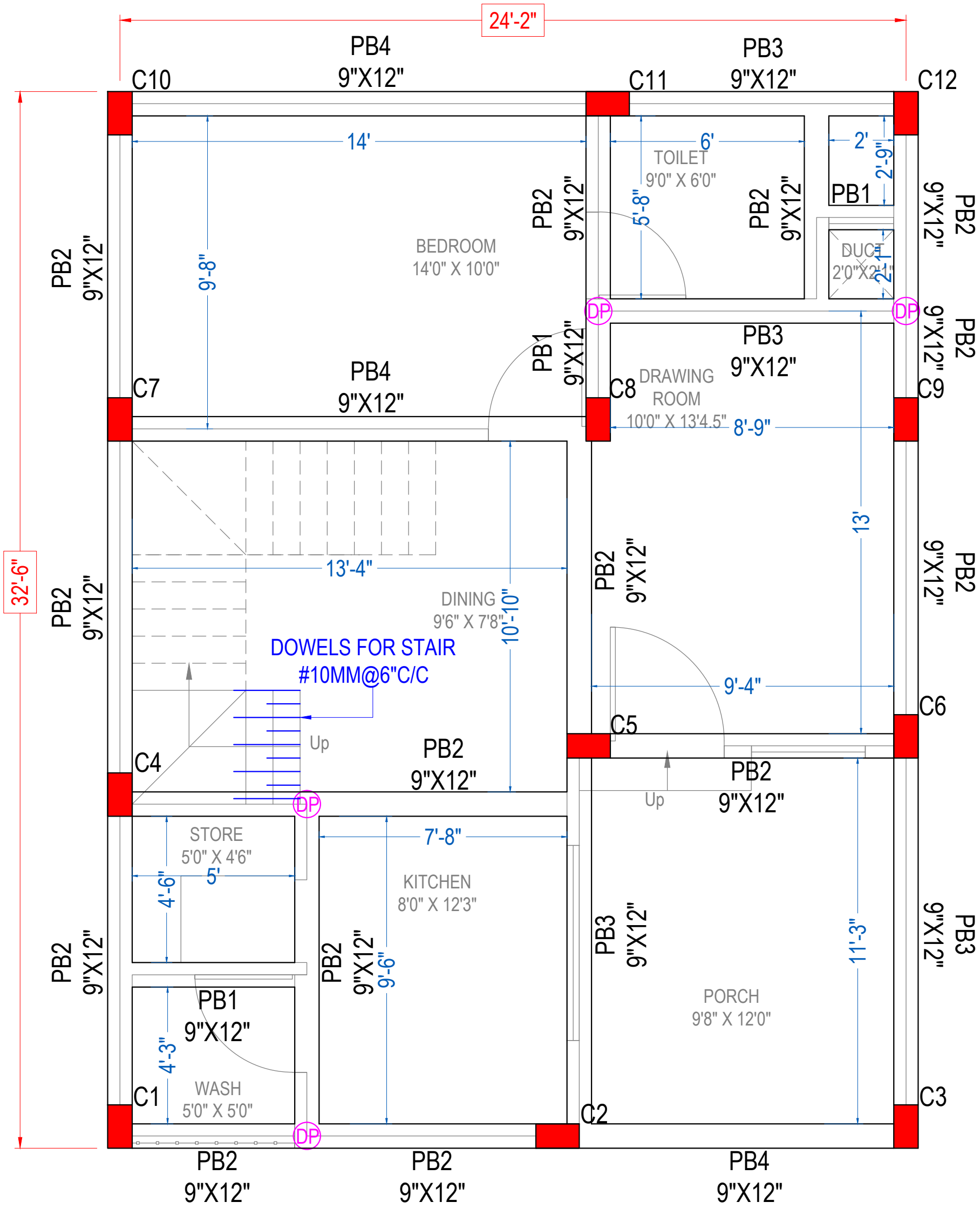
COLUMN STEEL DETAILS



C B A



SCHEMATIC SECTION



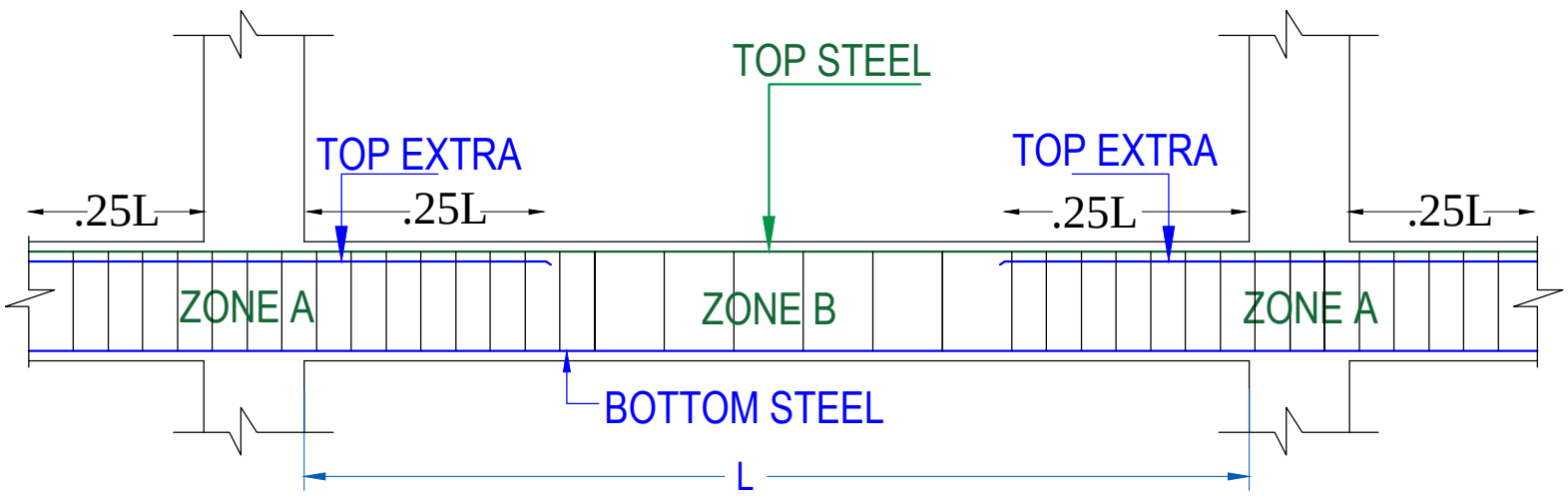
PLINTH BEAM PLAN

NOTES:-

1.MIX-(20)
2.CONCRETE COVER TO-
BEAM SIDE-1"
BEAM TOP/BOTTOM-1.5"
SLAB-0.75"
3.LAP LENGTHBY-50D
4.USE STEEL-FE 500

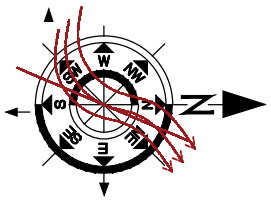
PLINTH BEAM DETAILS

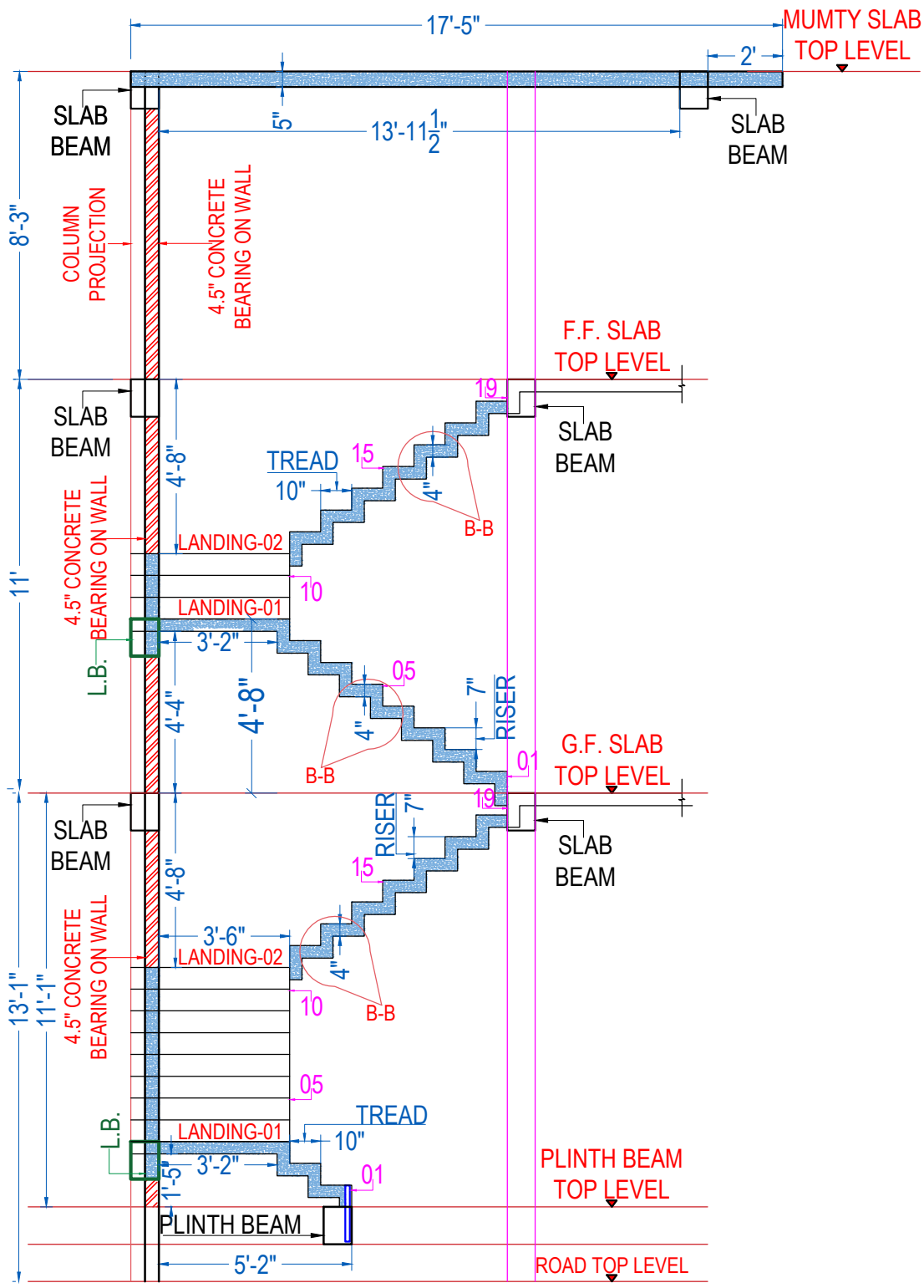
S.No.	BEAM	BEAM SIZE	TOP STEEL	BOTTOM STEEL	E.O.S.	STIRRUPS ZONE-A	STIRRUPS ZONE-B
1	PB1	(9"X12")	2#12MM	2#12MM	-----	#8MM@7"C/C	#8MM@7"C/C
2	PB2	(9"X12")	2#12MM	3#12MM	1#12MM	#8MM@6"C/C	#8MM@6"C/C
3	PB3	(9"X12")	2#12MM	3#12MM	2#12MM	#8MM@5"C/C	#8MM@6"C/C
4	**PB4**	**(9"X12")**	**2#12MM**	**2#12+1#16MM**	**1#12MM**	#8MM@5"C/C	#8MM@6"C/C



TYPICAL BEAM SECTION

PLINTH BEAM DETAILS





SECTION AT A-A

NOTE-

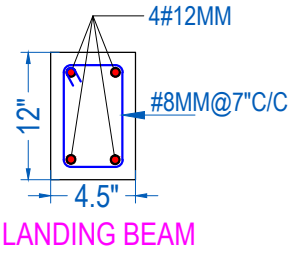
1.MIX-(20)
2.CONCRETE COVER TO-
SLAB-0.75"
COLUMN-1.5"
3.LAP LENGTH BY-50D
4.USE STEEL - Fe 500

F.F.NO.OF STEP

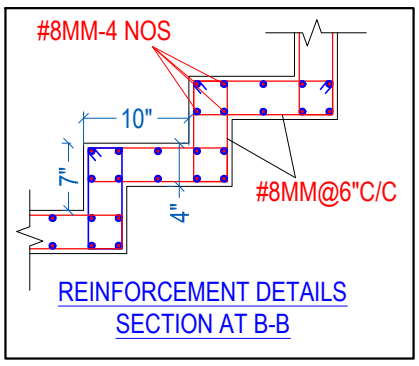
TREAD - 10"
RISER - 7"
NO. OF STEPS-19
TOTAL HEIGHT -11'-1"

G.F.NO.OF STEP

TREAD - 10"
RISER - 7"
NO. OF STEPS-19
TOTAL HEIGHT -11'-1"

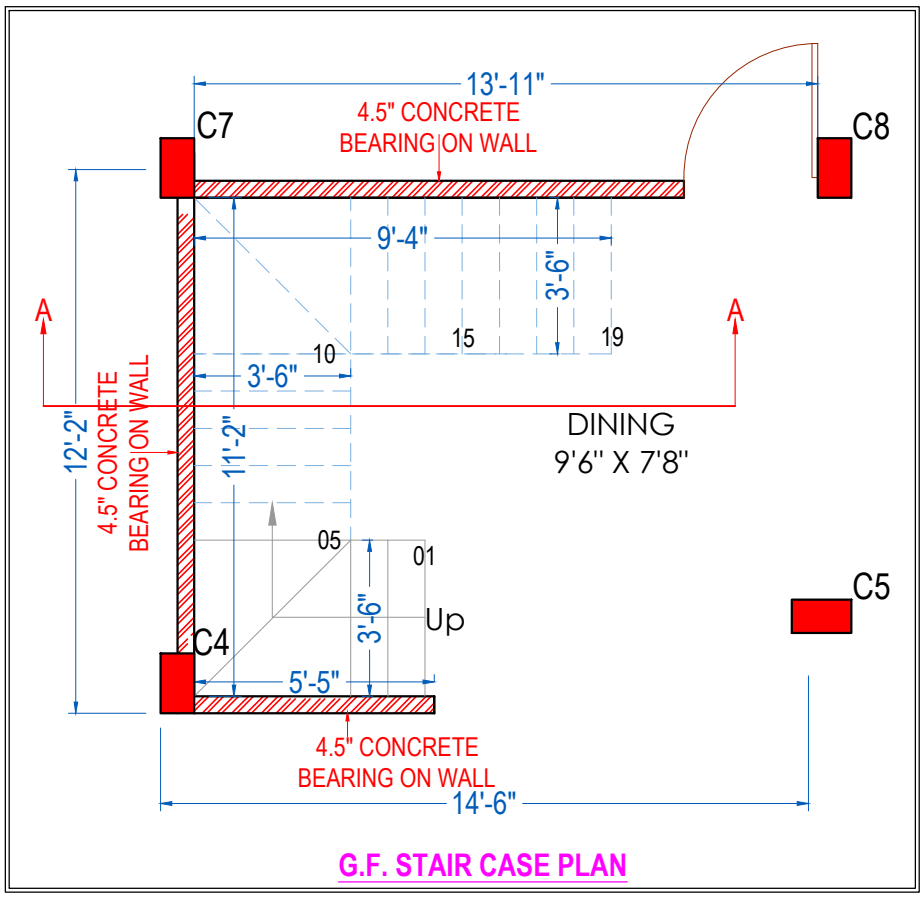


LANDING BEAM

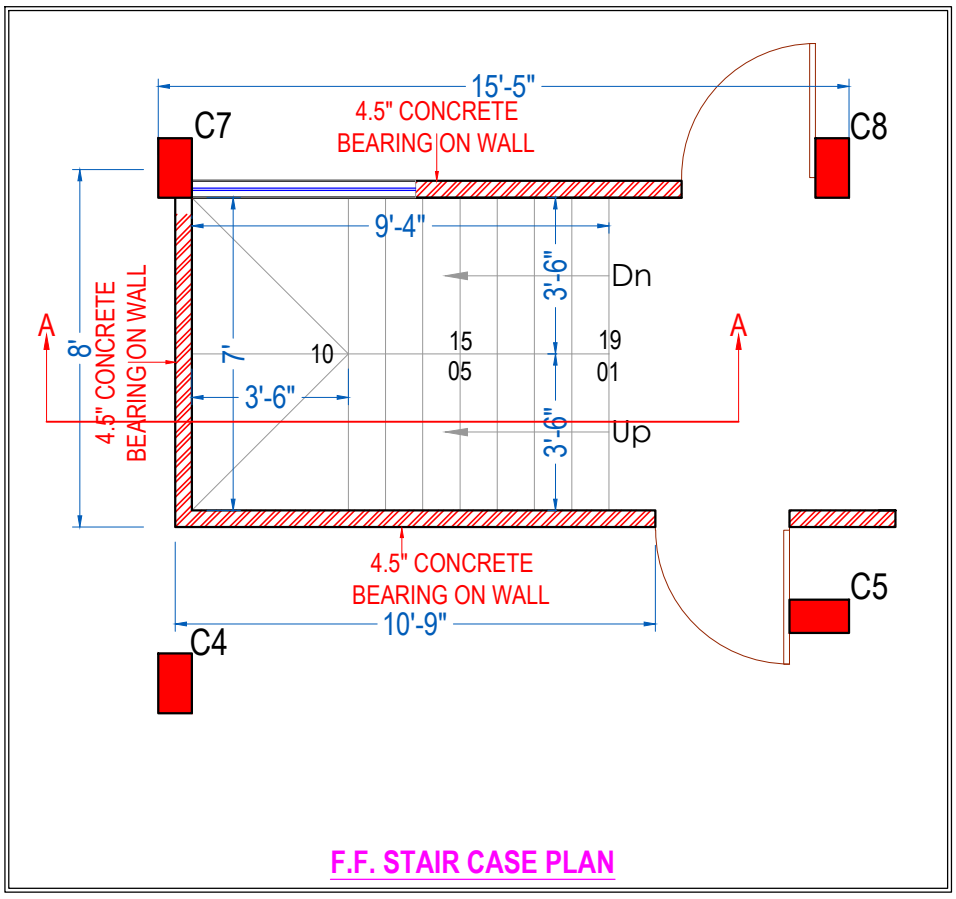


REINFORCEMENT DETAILS SECTION AT B-B

BRICKWORK SHOULD BE DONE AS PER STAIRS PROFILE BEFORE SHUTTERING WORK OF STAIRS

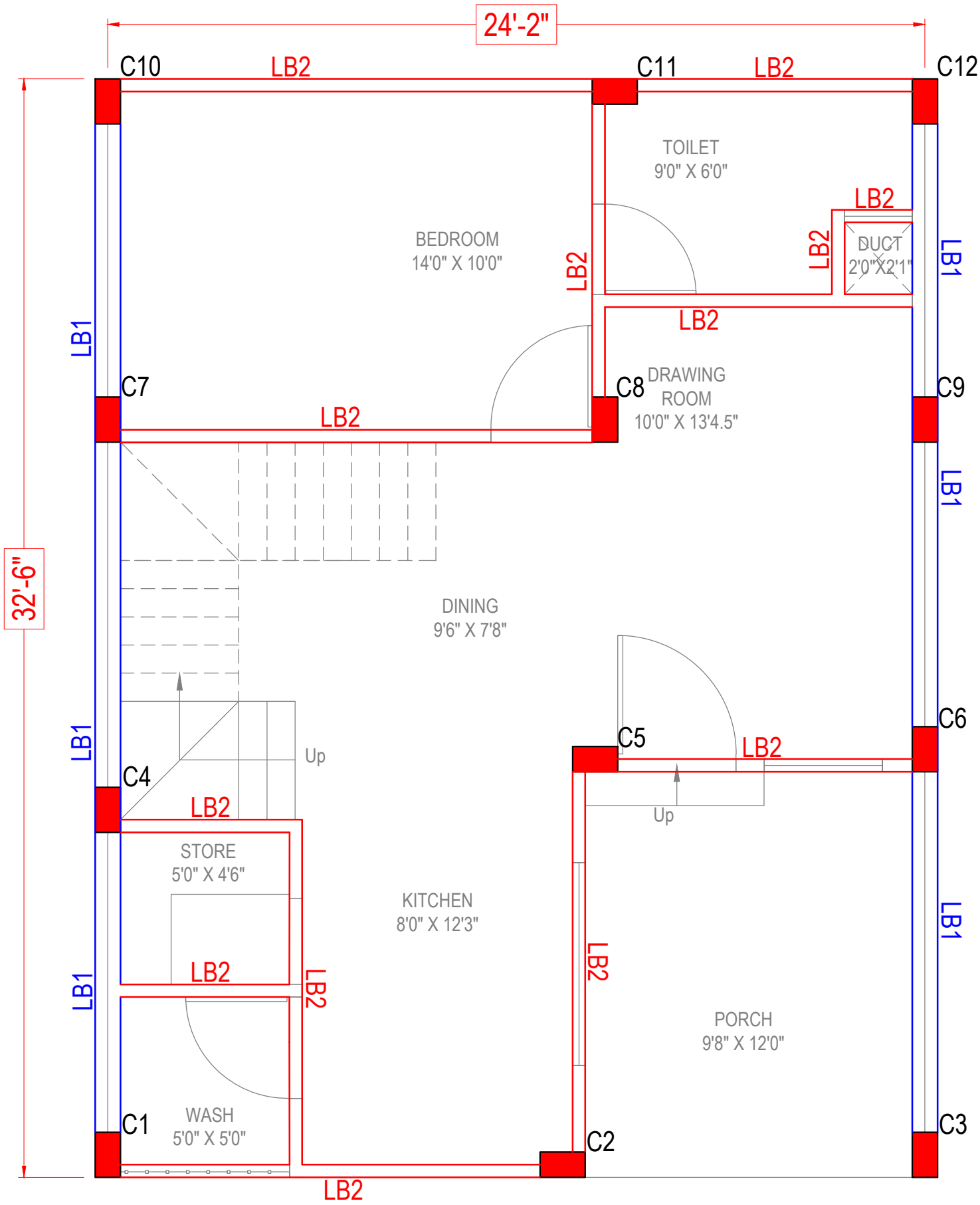


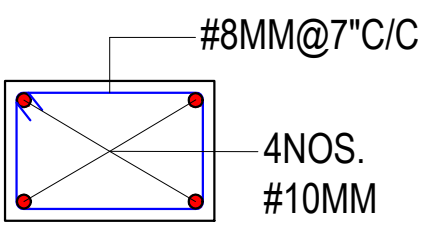
G.F. STAIR CASE PLAN



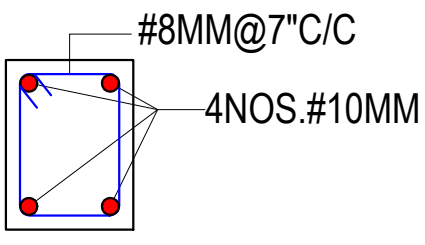
F.F. STAIR CASE PLAN

STAIRCASE PLAN & DETAILS

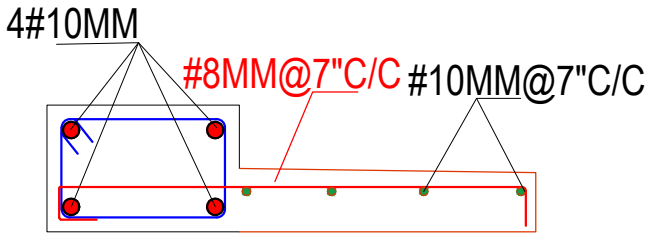




LB1



LB2



LB1(P) CHAJJA DETAILS

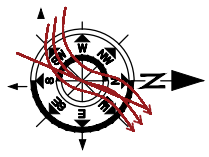
INDICATE	HT. LEVEL
	AS PER WORKING DRAWING

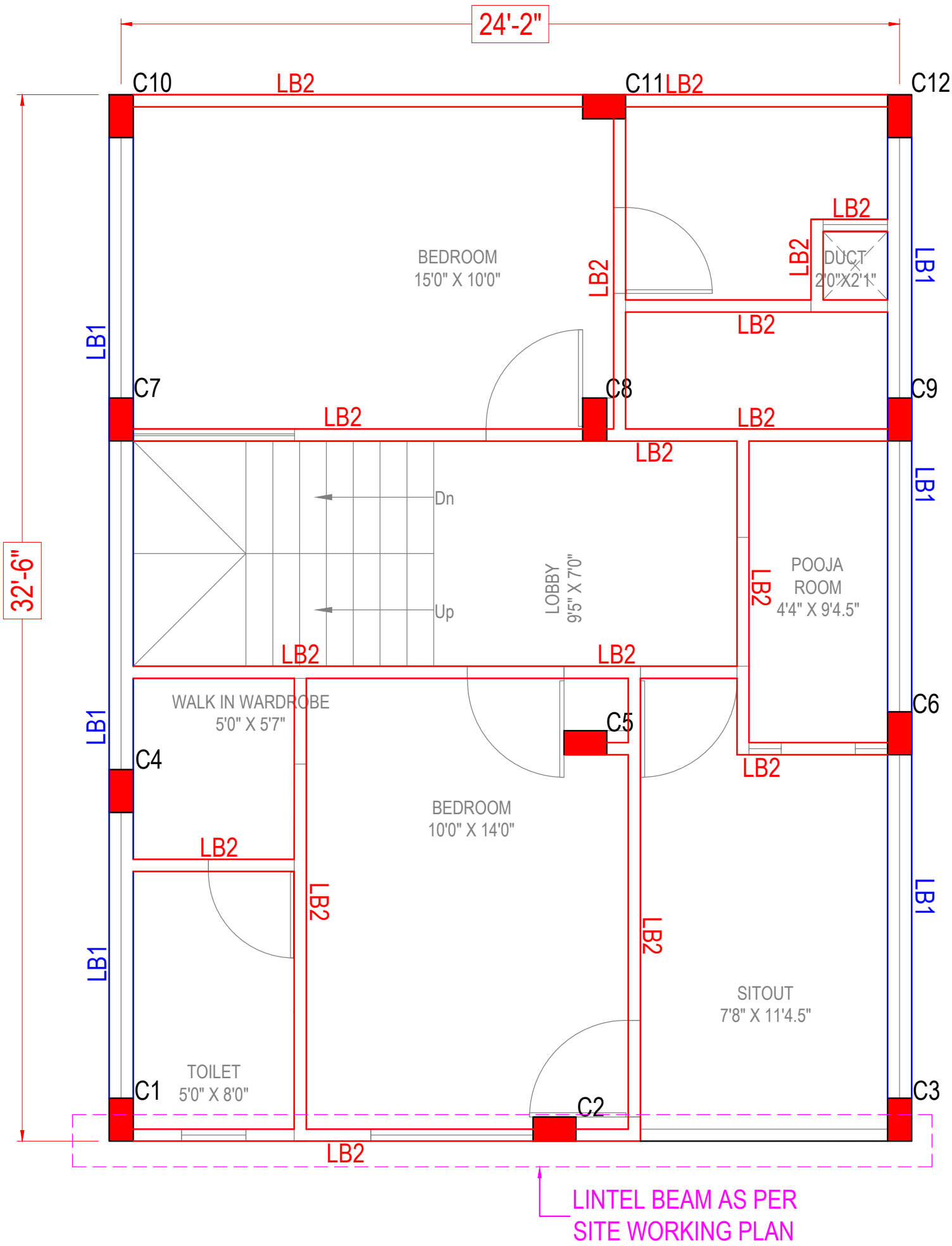
NOTE-

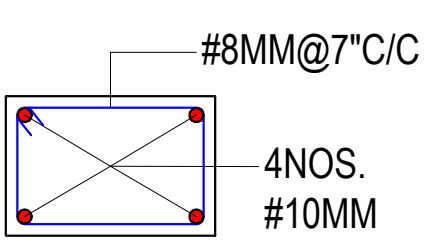
1. USE Fe-500 steel.
2. CONCRETE MIX- M20.
3. CONCRETE COVER=20mm.
4. CHAJJA PROJECTION AS PER WORKING PLAN

ALL BRICK WORK SHOULD BE DONE BEFORE LINTEL BEAM CASTING

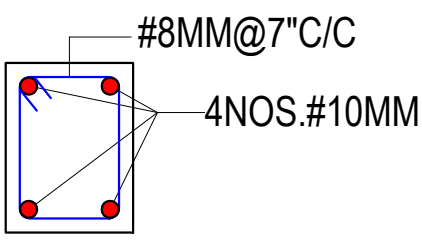
GROUND FLOOR LINTEL BEAM PLAN



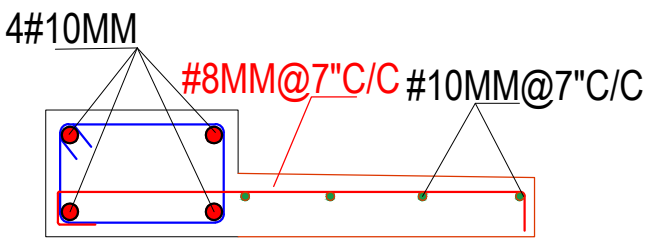




LB1



LB2



LB1(P) CHAJJA DETAILS

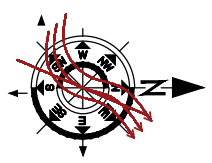
INDICATE	HT. LEVEL
	AS PER WORKING DRAWING

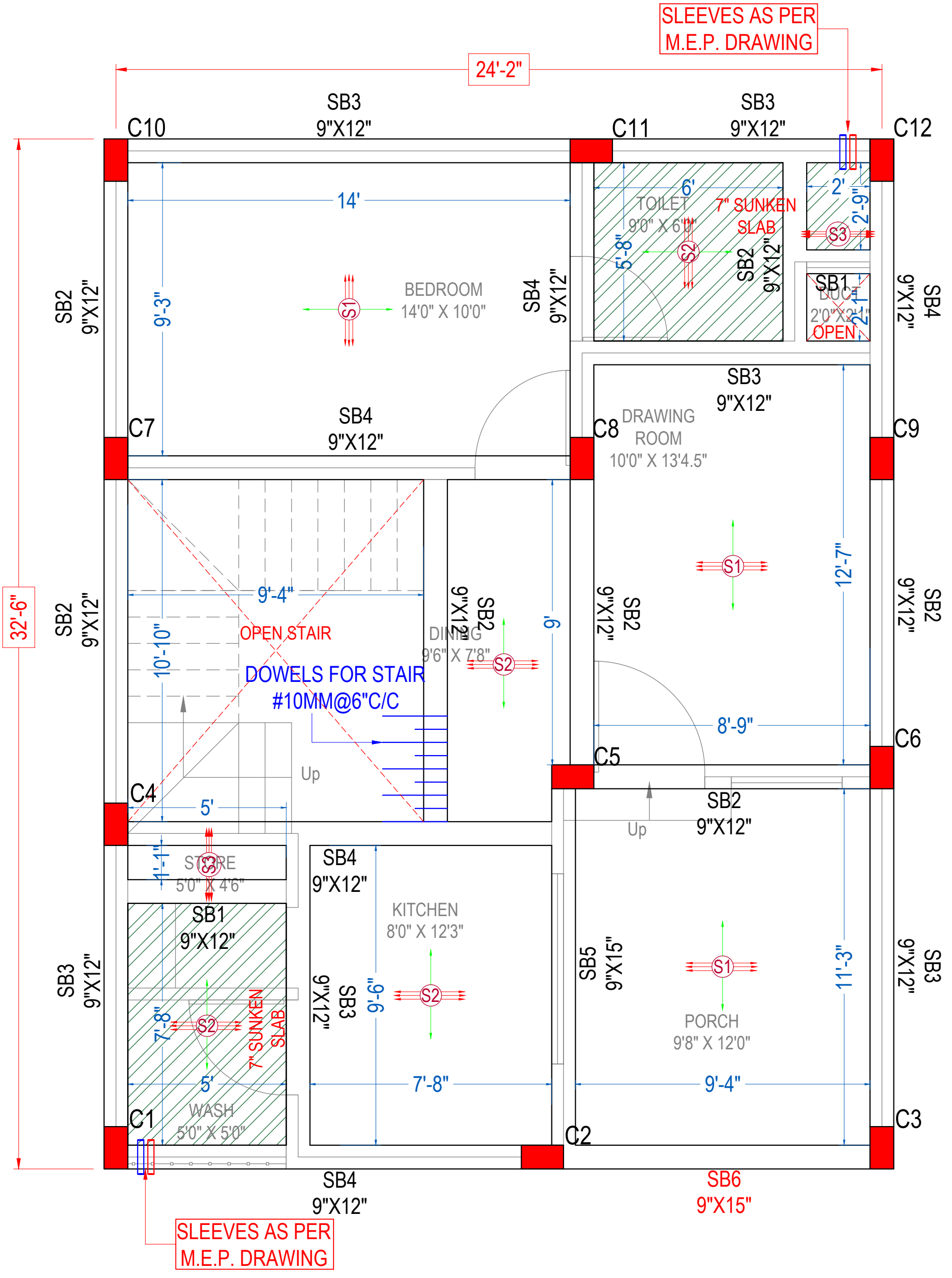
NOTE-

1. USE Fe-500 steel.
2. CONCRETE MIX- M20.
3. CONCRETE COVER=20mm.
4. CHAJJA PROJECTION AS PER WORKING PLAN

ALL BRICK WORK SHOULD BE DONE BEFORE LINTEL BEAM CASTING

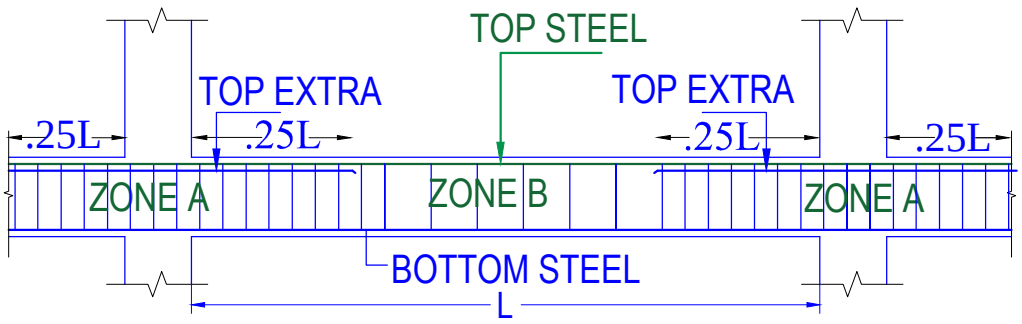
FIRST FLOOR LINTEL BEAM PLAN



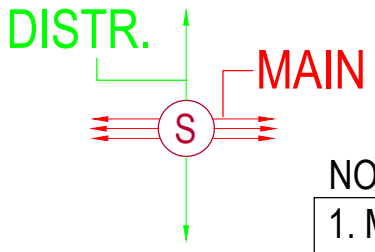


GROUND FLOOR SLAB BEAM PLAN

SLAB BEAM DETAILS							
S.NO.	BEAM	BEAM SIZE	TOP STEEL	BOTTOM STEEL	TOP EXTRA	STIRRUPS @ZONE A	STIRRUPS @ZONE B
1	SB1	9"X12"	2#12MM	2#12MM	-----	#8MM@7"C/C	#8MM@7"C/C
2	SB2	9"X12"	2#12MM	3#12MM	1#12MM	#8MM@5"C/C	#8MM@6"C/C
3	SB3	9"X12"	2#12MM	3#12MM	2#12MM	#8MM@5"C/C	#8MM@6"C/C
4	SB4	9"X12"	2#12MM	4#12MM	2#12MM	#8MM@5"C/C	#8MM@6"C/C
5	SB5	9"X15"	2#12MM	1#12+1#16MM	1#16MM	#8MM@4"C/C	#8MM@5"C/C
6	**SB6**	**9"X15"**	**2#16MM**	**3#16MM**	**2#16MM**	**#8MM@4"C/C**	**#8MM@5"C/C**



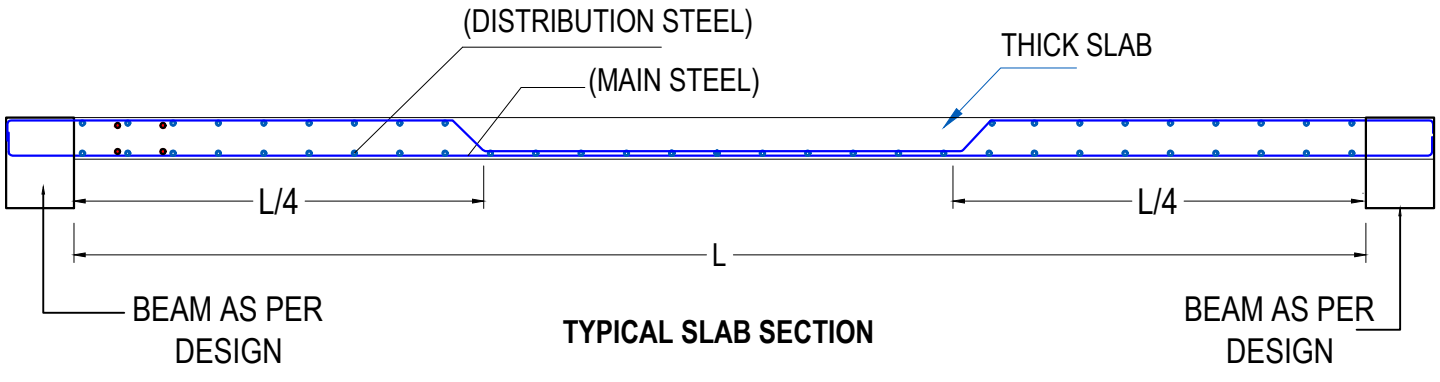
TYPICAL BEAM DETAILS



NOTE:-

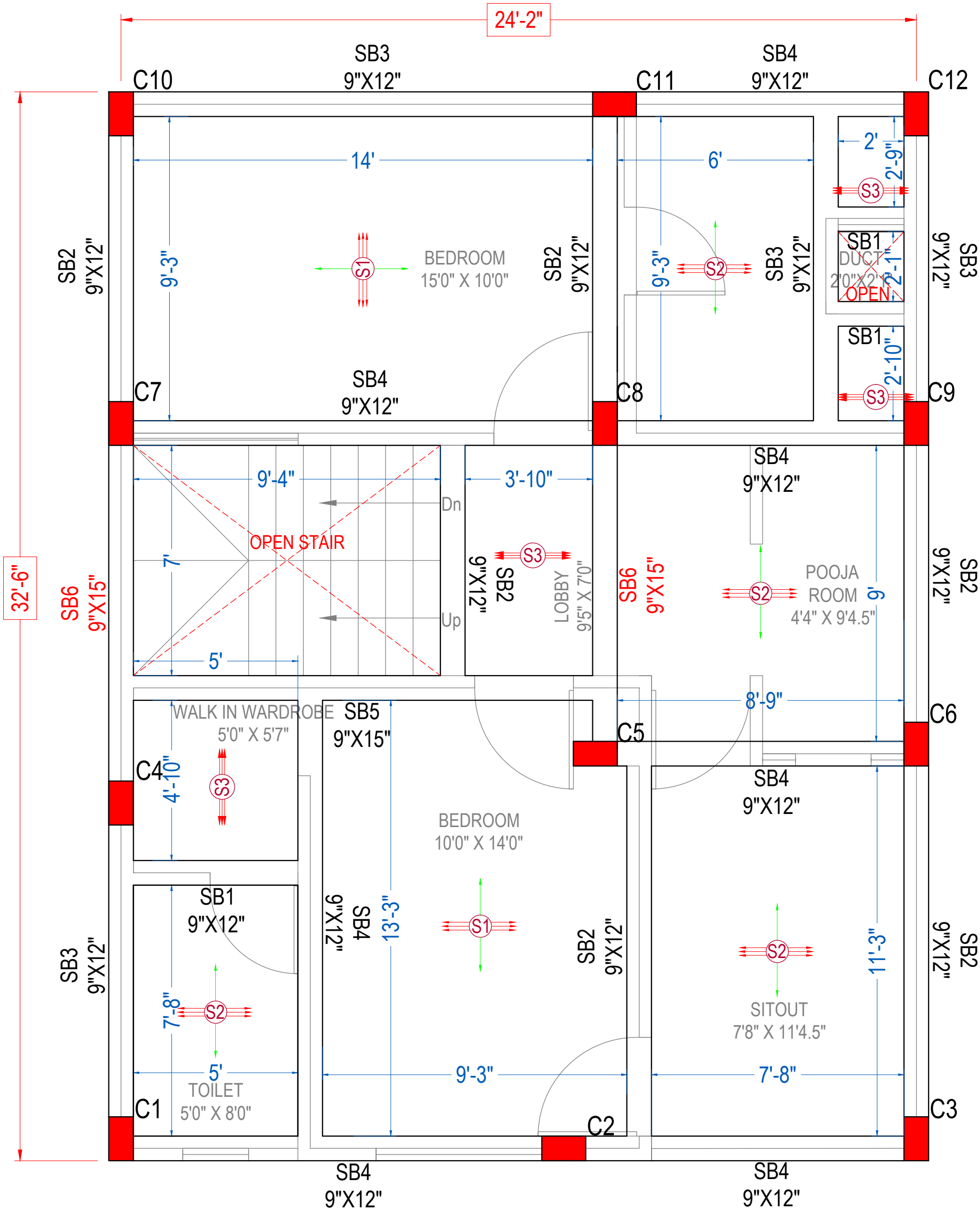
1. MIX-(20)
2. CONCRETE COVER TO-
   BEAM SIDE-1"
   BEAM TOP/BOTTOM- 1.5"
   SLAB -0.75"
3. LAP LENGTH BY-50D
4. STEEL-FE-500

SLAB REINFORCEMENT							
NO.	SLAB	THICKNESS	WAY	MAIN BAR	DIST. BAR	CONCRETE MIX	SLAB EOS AT
1	S1	5"	TWO	#10MM@6"c/c	#8MM@6"c/c	M-20	#10/#8MM@L/4
2	S2	5"	TWO	#8MM@6"c/c	#8MM@6"c/c	M-20	#8MM@L/4
3	S3	5"	ONE	#8MM@6"c/c	#8MM@7"c/c	M-20	#8MM@L/4



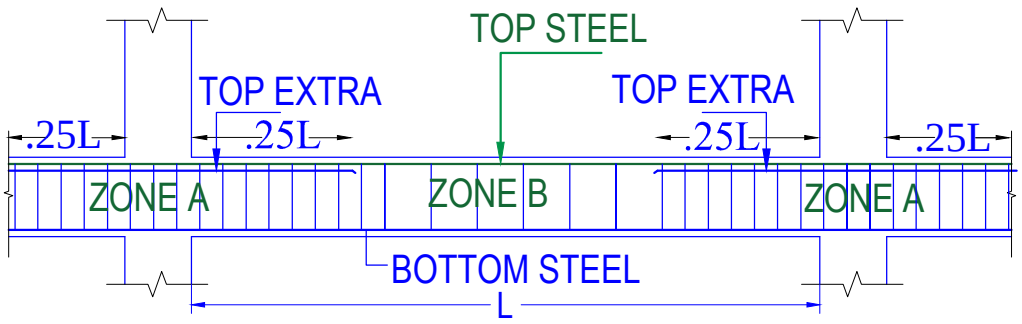
TYPICAL SLAB SECTION

G.F.SLAB BEAM DETAILS

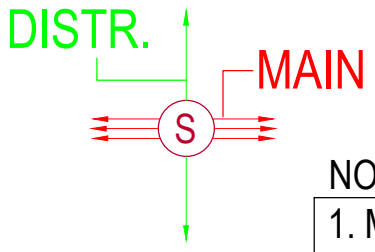


FIRST FLOOR SLAB BEAM PLAN

SLAB BEAM DETAILS							
S.NO.	BEAM	BEAM SIZE	TOP STEEL	BOTTOM STEEL	TOP EXTRA	STIRRUPS @ZONE A	STIRRUPS @ZONE B
1	SB1	9"X12"	2#12MM	2#12MM	-----	#8MM@7"C/C	#8MM@7"C/C
2	SB2	9"X12"	2#12MM	3#12MM	1#12MM	#8MM@5"C/C	#8MM@6"C/C
3	SB3	9"X12"	2#12MM	3#12MM	2#12MM	#8MM@5"C/C	#8MM@6"C/C
4	SB4	9"X12"	2#12MM	4#12MM	2#12MM	#8MM@5"C/C	#8MM@6"C/C
5	SB5	9"X15"	2#12MM	1#12+1#16MM	1#16MM	#8MM@4"C/C	#8MM@5"C/C
6	**SB6**	**9"X15"**	**2#16MM**	**3#16MM**	**2#16MM**	**#8MM@4"C/C**	**#8MM@5"C/C**



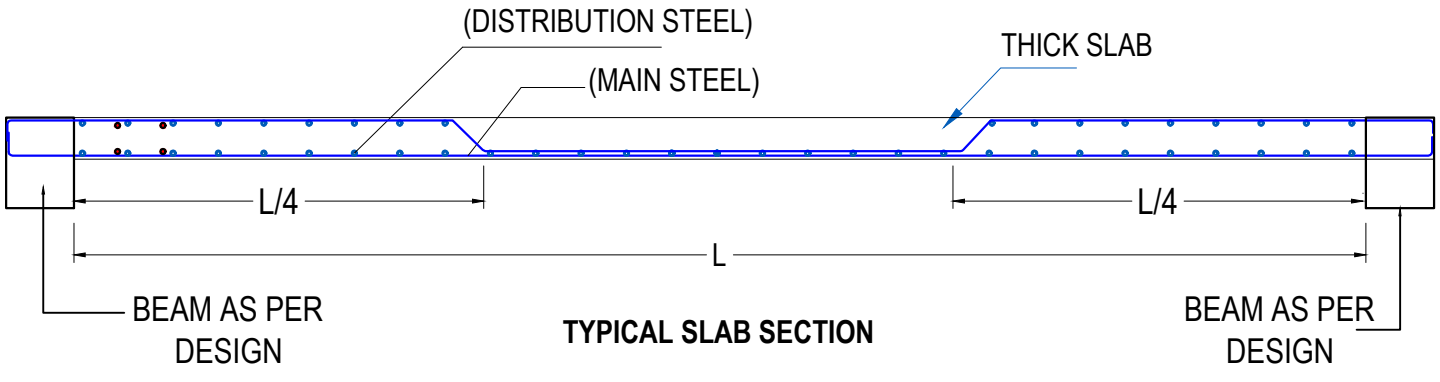
TYPICAL BEAM DETAILS



NOTE:-

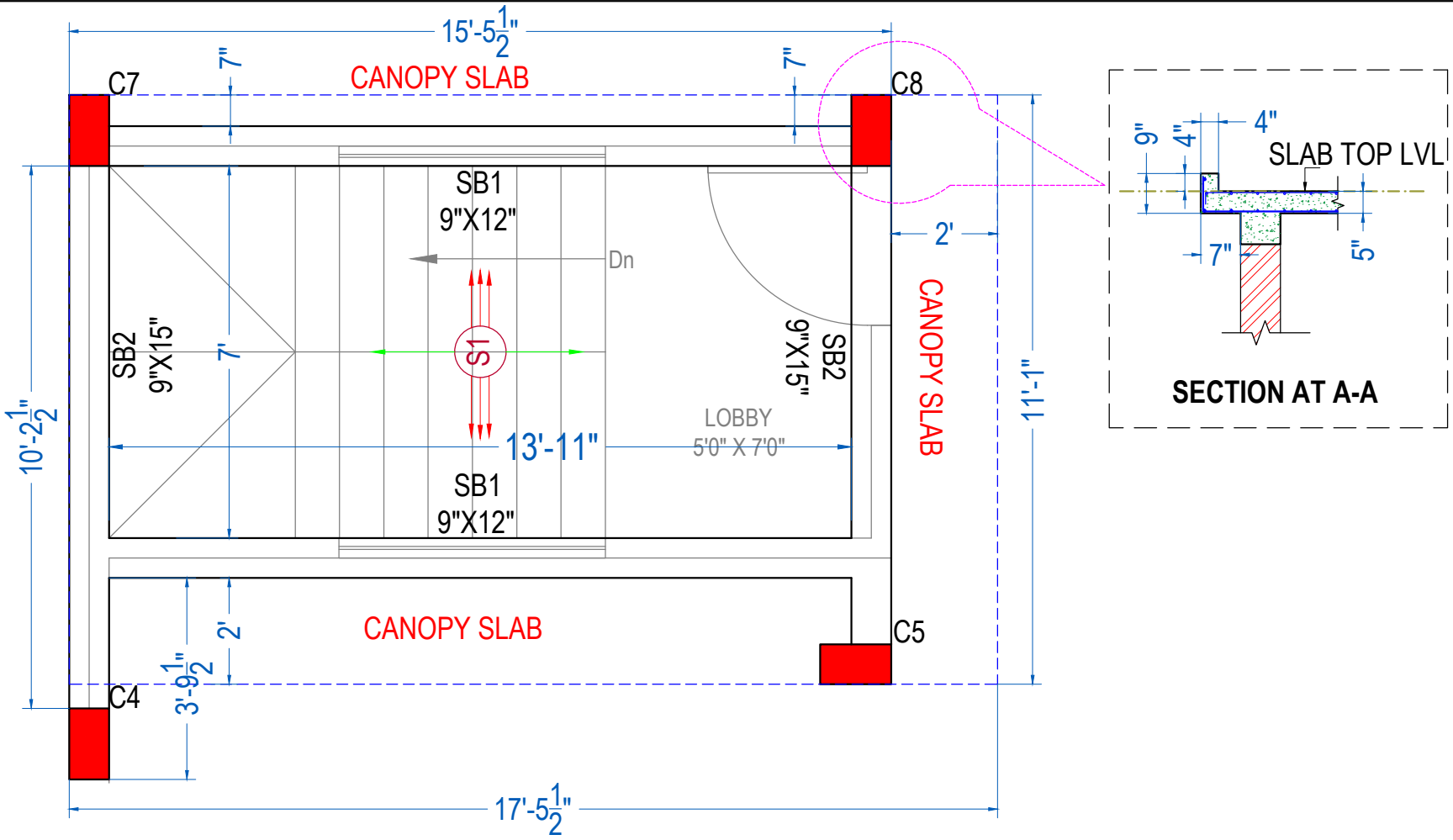
1. MIX-(20)
2. CONCRETE COVER TO-
   BEAM SIDE-1"
   BEAM TOP/BOTTOM- 1.5"
   SLAB -0.75"
3. LAP LENGTH BY-50D
4. STEEL-FE-500

SLAB REINFORCEMENT							
NO.	SLAB	THICKNESS	WAY	MAIN BAR	DIST. BAR	CONCRETE MIX	SLAB EOS AT
1	S1	5"	TWO	#10MM@6"c/c	#8MM@6"c/c	M-20	#10/#8MM@L/4
2	S2	5"	TWO	#8MM@6"c/c	#8MM@6"c/c	M-20	#8MM@L/4
3	S3	5"	ONE	#8MM@6"c/c	#8MM@7"c/c	M-20	#8MM@L/4



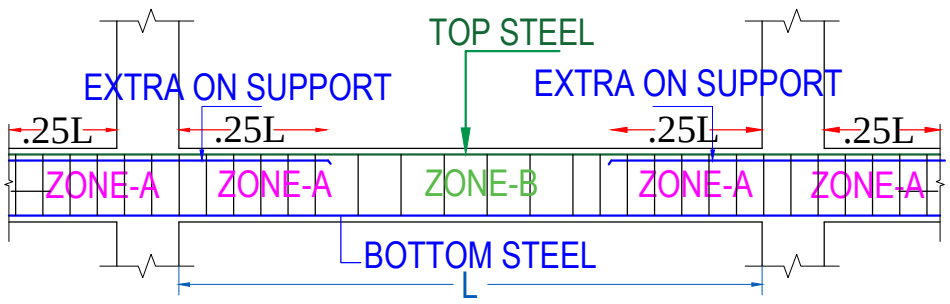
TYPICAL SLAB SECTION

F.F.SLAB BEAM DETAILS

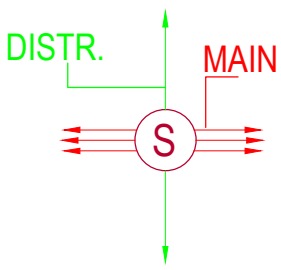


SECTION AT A-A

SLAB BEAM DETAILS							
S.NO.	BEAM	BEAM SIZE	TOP STEEL	BOTTOM STEEL	TOP EXTRA	STIRRUPS @ZONE A	STIRRUPS @ZONE B
1	SB1	9"X12"	2#12MM	3#12MM	2#12MM	#8MM@5"C/C	#8MM@6"C/C
2	SB2	9"X15"	2#12MM	1#12+1#16MM	1#16MM	#8MM@4"C/C	#8MM@5"C/C



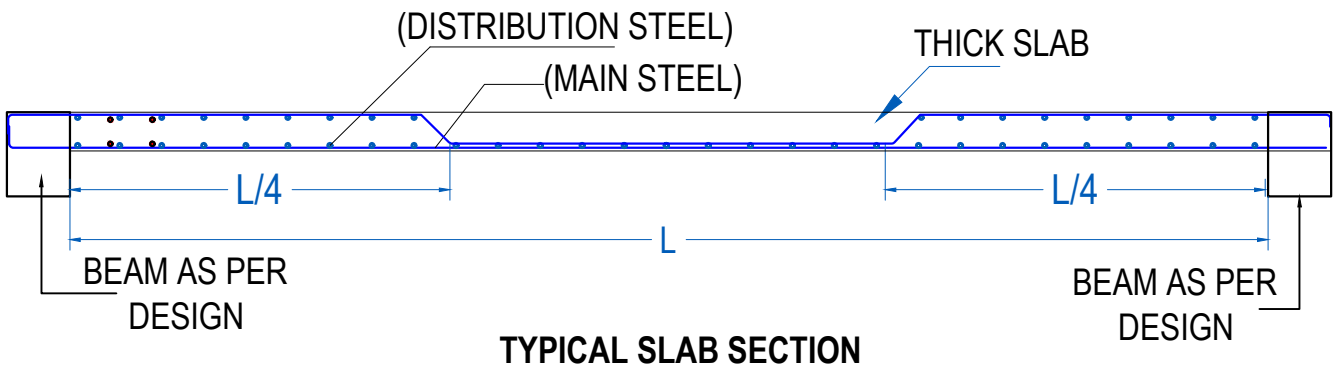
TYPICAL BEAM SECTION



NOTE:-

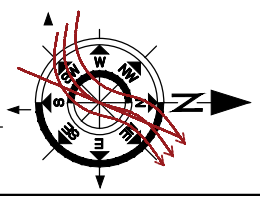
1. MIX-(20)
2. CONCRETE COVER TO-
   BEAM SIDE-1"
   BEAM TOP/BOTTOM- 1.5"
   SLAB -0.75"
3. LAP LENGTH BY-50D
4. STEEL-FE-500

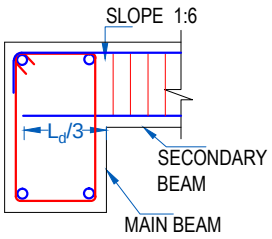
SLAB REINFORCEMENT							
NO.	SLAB	THICKNESS	WAY	MAIN BAR	DIST. BAR	CONCRETE MIX	SLAB EOS AT
1	1	5"	TWO	#10MM@6"c/c	#8MM@6"c/c	M-20	#10/#8MM@L/4



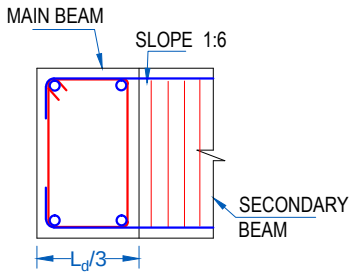
TYPICAL SLAB SECTION

MUMTY SLAB BEAM PLAN & DETAILS

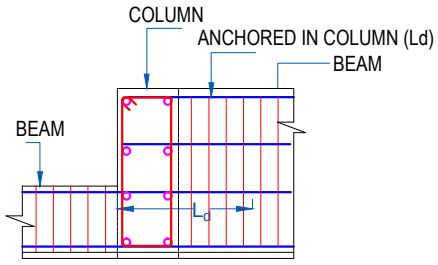




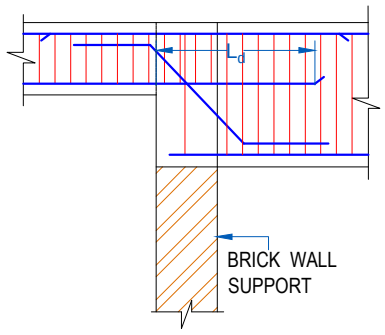
JUNCTION OF MAIN & SECONDARY BEAM (UNEQUAL DEPTH)



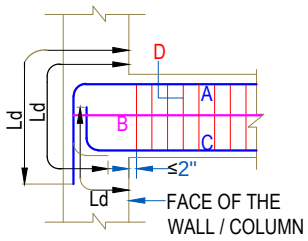
JUNCTION OF MAIN & SECONDARY BEAM (EQUAL DEPTH)



JUNCTION OF COLUMN & BEAM OF DIFFERENT WIDTH (PLAN)

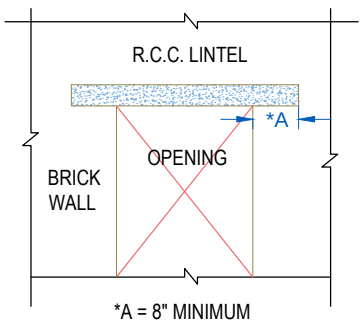


BEAM AT DIFFERENT DEPTH



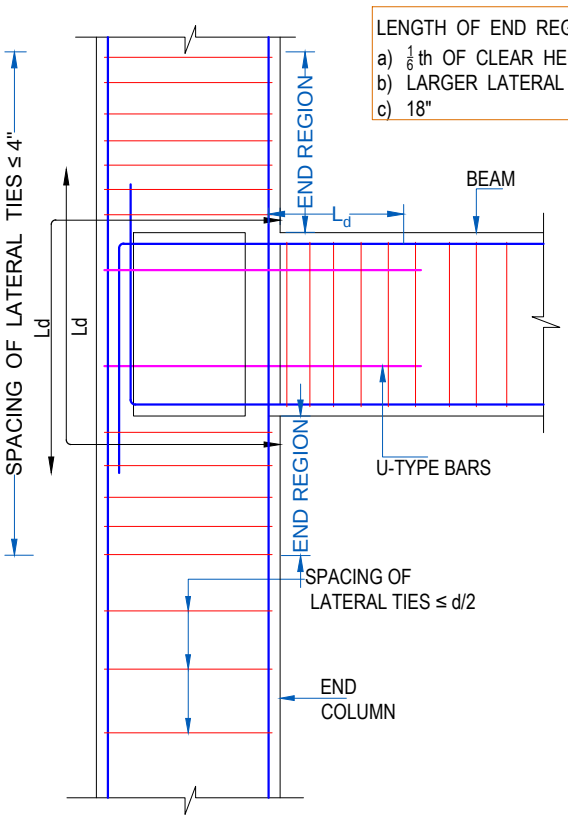
TYPICAL BEAM DETAIL

A - TOP BARS
B - SKIN REINFORCEMENT BARS
C - BOTTOM BARS
D - STIRRUPS
SKIN REBAR ARE TO BE PROVIDED WHEN BEAM DEPTH ≥30" ,UNLESS SPECIFIED

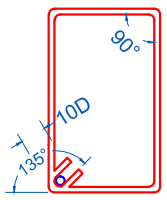


TYPICAL LINTEL ELEVATION

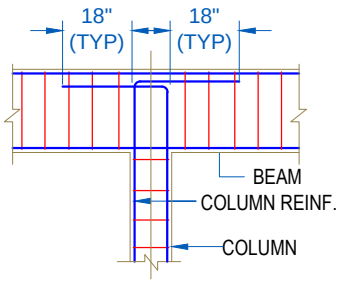
LENGTH OF END REGION SHALL BE LARGEST OF
a) $\frac{1}{6}$ th OF CLEAR HEIGHT OF COLUMN
b) LARGER LATERAL DIMENSION OF THE COLUMN
c) 18"



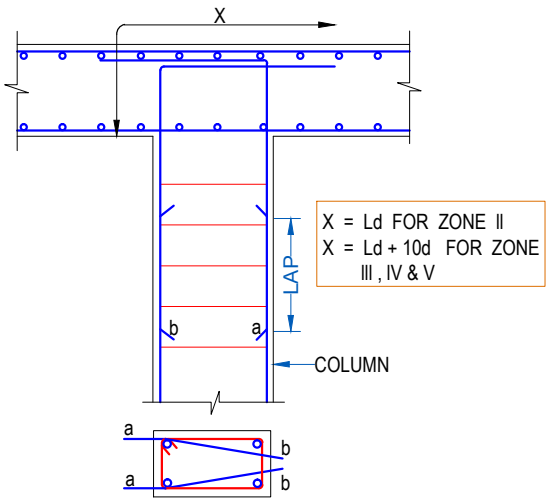
TYPICAL DETAIL OF BEAM COLUMN JUNCTION AT EXTERNAL COLUMN



TYPICAL DETAIL OF BEAM STIRRUPS

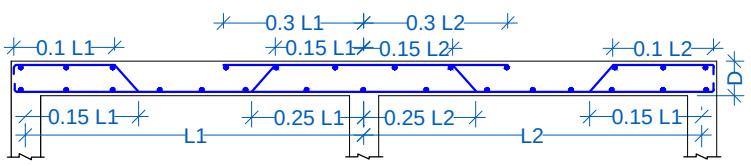


COLUMN TERMINATION DETAIL

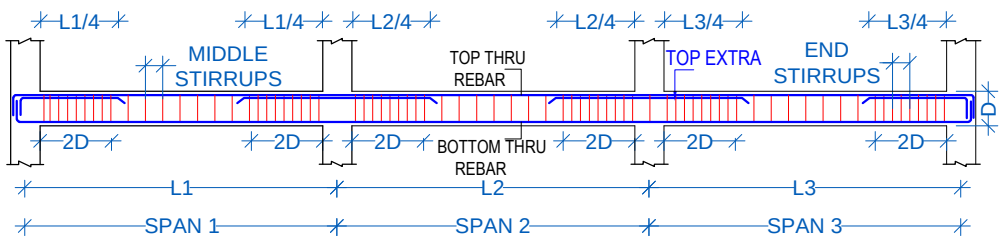


DETAILS OF TERMINATION OF COLUMN BARS INSIDE THE SLAB

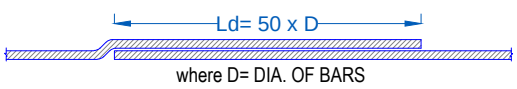
RCC NOTES



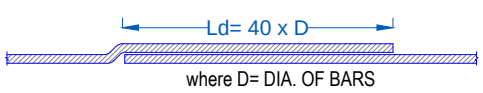
TYPICAL SECTION OF SLAB REINFORCEMENT



TYPICAL BEAM DETAIL



OVERLAP LENGTH OF BARS IN TENSILE ZONE



OVERLAP LENGTH OF BARS IN COMPRESSION ZONE

GENERAL NOTES

NOTES/ SPECIFICATIONS FOR R.C.C. WORK -

- ALL DIMENSIONS AND DETAIL ARE TO BE VERIFIED WITH THE RELEVANT ARCHITECTURAL AND SERVICE DRAWINGS AND AMBIGUITY IF ANY SHOULD BE BROUGHT TO THE NOTICE OF THE DESIGN ENGINEERS.
- DO NOT SCALE THE DRAWINGS, ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED.
- REINFORCEMENT SHALL BE HIGH STRENGTH DEFORMED BARS OF GRADE FE 500 CONFIRMING TO IS 1786:2008.
- UNLESS NOTED OTHERWISE, CONCRETE MIX FOR ALL CEMENTS SHALL BE M-20 GRADE HAVING 20N/mm2 COMPRESSIVE STRENGTH AT 28 DAYS AND SHALL BE CONFIRMING TO IS 456:2000.
- ALL CONCRETE MIX SHALL BE MACHINE MIXED AND MACHINE VIBRATED.
- FOUNDATION HAS BEEN DESIGNED FOR **G+1 FLOORS**,SAFE BEARING CAPACITY OF SOIL HAS BEEN ADOPTED AS 100 kN/m2.
- UNLESS NOTED OTHERWISE, NOMINAL COVER TO MAIN REINFORCEMENT SHALL BE:

1. FOOTINGS = 2"
2. COLUMNS = 1.5"
3. PEDESTAL = 1.5"
4. BEAMS SIDE = 1"

   BEAM TOP/BOTTOM =1.5"
5. SLABS = .75"

- DISTRIBUTION REINFORCEMENT, IF NOT SHOWN , SHALL 8ø 6" C/C.
- LAP LENGTH FOR REINFORCEMENT AT ANY SECTION SHALL BE 50 TIMES DIA OF BAR-
- NOT MORE THAN 50% OF BARS SHALL BE LAPPED AT ANY SECTION.
- FOR FLOOR BEAM AND SLABS, THE LOCATION OF LAPPING SHALL BE CLOSE TO 0.2L NEAR SUPPORTS FOR BOTTOM REINFORCEMENT AND CLOSE TO MID SPAN FOR TOP REINFORCEMENT.
- AT BEAM COLUMN JUNCTION , BEAM BARS IN CONFLICT WITH COLUMN BARS SHALL BE GRADUALLY BENT AT A SLOPE OF 1:6 AND PLACED CLEAR OFF COLUMN BARS , UNDER NO CIRCUMSTANCES, COLUMN VERTICAL BARS SHALL BE BENT TO ACCOMMODATE BEAM BAR-
- WHEREVER SHOWN BEAM BARS SHALL BE ANCHORED INTO COLUMN UPTO A DISTANCE EQUAL TO 47 TIMES DIA OF BAR, DISTANCE MEASURED FROM FACE TO COLUMN.
- DEPTH OF FOUNDATION SHALL BE MINIMUM 5' BELOW EXISTING GROUND LEVEL OR AS SPECIFIED.
- COLUMN BARS SHALL BE LAPPED IN THE ZONE OF Hc/4 ABOVE AND Hc/4 BELOW THE FLOOR LEVEL.
- SPACING OF LINKS SHALL BE 6" C/C AT LOCATION WHERE LONGITUDINAL BAR OF COLUMN ARE SPLICED.

NOTE:-

- 4.5" BRICK WORK MORTAR RATIO (**1** CEMENT :**4** SAND)
- 9" BRICK WORK MORTAR RATIO (**1** CEMENT :**6** SAND)
- CONCRETE - M-20 GRADE (**1** CEMENT:**1.5** SAND: **3** AGGREGATE)

GENERAL NOTES

C

B

A