



FIRST FLOOR BEAM & SLAB PLAN

1. BASIC REFERENCE CODE-IS 456-2000
2. DESHUTTERING PERIOD SHALL NOT BE LESS THAN SPECIFIED BELOW
 - a) VERTICAL FACES FOR COLUMN,BEAM AND WALL -24 HOURS
 - b) SLAB 1-SPANNING UP TO 4.5 M -7 DAYS
 - c) BEAMS 1-SPANNING UP TO 6.0 M -14 DAYS
 - d) BEAMS 2-SPANNING OVER TO 6.0 M -21 DAYS
3. DUE CARE SHOULD BE TAKEN TO ASCERTAIN THAT REQUISITE STRENGTH OF CONCRETE IS GAINED BEFORE COMMENCEMENT OF DESHUTTERING.
4. BEAMS HAVING DEPTH MORE THAN 750 MM , PROVIDE SIDEFACE ON BOTH SIDE FOR BEAM ABOVE 850 MM DEPTH -PROVIDE #12 @ 1/3 RD AND 2/3 RD BEAM DEPTH
5. ALL LAPS SHALL BE STAGGERED AND NOT MORE THAN 50% BARS TO BE LAPPED AT ANY GIVEN SECTION
6. MAXIMUM ALLOWABLE HEIGHT OF COLUMN WITHOUT ANY BRACER OR TIE
 - i) 230 WIDE- 4000M
 - ii) 200 WIDE- 3400M
 - iii) 150 WIDE- 2600M
7. NOT WITHSTANDING THESE PROVISIONS,ALL BUILDING SHALL HAVE BEAM / PLINTH BEAMS AT G.L./PLINTH LVL.
8. IF FOOTINGS OVERLAP EACH OTHER,NECESSARY REVISION SHOULD BE OBTAINED FROM OFFICE
9. DESIGN IS VALID FOR NO. OF FLOORS AS INDICATED IN NOTE ONLY.
10. MINIMUM SPACING BETWEEN ANY TWO LONGITUDINAL BARS IN BEAM-50 MM
11. AT ANY LEVEL WHERE COLUMN GETS REDUCED IN EITHER DIMENSION TIE BEAM / PLINTH BEAMS ARE ABSOLUTELY ESSENTIAL.
12. FOR CANTILEVERS ,TOP BARS TO BE ANCHORED BEHINDS FOR-70 X DIA OF BAR OR SPAN OF CANTILEVERS-WHICH EVER IS GREATER
13. ALL TIE BEAM ARE NOT DESIGNED FOR WALL LOAD
14. ENVIRONMENTAL EXPOSURE CONDITION-MILD IS ASSUMED.

USE OF THIS DRAWING FOR CONSTRUCTION SHALL EXPLICITLY CONFIRM ACCEPTANCE OF OF FOLLOWING CONDITIONS BY OWNER / BUILDER / CONTRACTOR. OUR RESPONSIBILITY SHALL REMAIN LIMITED TO SAFE AND SOUND STRUCTURAL DESIGN.

- WE SHALL NOT REMAIN RESPONSIBLE FOR
- a) SAFETY OF OLD STRUCTURE DURING DEMOLITION.
 - b) SAFETY OF ANY ADJOINING BUILDING / PERSONS STAYING IN ADJOINING.
 - c) SAFETY OF CONSTRUCTION WORKER / ANY PERSONNEL AT WORK SITE DURING CONSTRUCTION
 - d) CORRECTNESS / SAFETY OF ANY TEMPORARY STRUCTURE, SCAFFOLDING,SHUTTERING CENTRING ERECTED AT SITE AND INJURY TO ANY PERSONNEL ARISING OUT OF ANY ACCIDENT
 - e) ACCIDENTS OCCURRING DUE TO PREMATURE DESHUTTERING, FAULTY/SUBSTANDARD CONSTRUCTION MATERIAL OR WORKMANSHIP / FAULTY CONSTRUCTION PROCEDURE.

NOTES :

- 1) DO NOT SCALE THE DRAWING, REFER FIGURED DIMENSIONS
- 2) ANY DISCREPANCIES OR OMISSION OR CHANGES SHALL BE BROUGHT TO NOTICE PRIOR TO EXECUTION
- 3) CONCRETE GRADE USED IS M 20 UNLESS OTHERWISE MENTIONED.P.C.C.=1:3:6 M20 = 1:1.5:3
- 4) ALL STEEL EXCEPT 6mmØ IS TOR STEEL() OF GRADE Fe 415 N/mmSq.
- 5) LAPPING OR ANCHORAGE LENGTH
 - a) BEAM AND SLAB = 60 x DIA OF BAR
 - b) COLUMN = 50 x DIA OF BAR
- 6) CLEAR COVER TO REINFORCEMENT
 - a) FOOTING = 50m.m.
 - b) COLUMN = 25m.m.
 - c) SLAB = 15m.m.
 - d) BEAM = 25m.m.
- 7) S.B.C. OF SOIL ASSUMED IS 300KN/SQM
- 8) COLUMNS AND FOOTINGS ARE DESIGNED FOR BASEMENT+G +3,PARKING+3
- 9) ALL WALLS-0.15 BBM ,EXCEPT TOILET WALLS-0.1 BBM HT-3.0 M
- 10) DO NOT CAST ANY R.C.C WORK UNLESS IT IS CHECKED AND CONFIRMED BY ENGINEER
- 11) DESIGN OF CENTRING, SHUTTERING, AND CONCRETE MIX IS CONTRACTOR RESPONSIBILITY
- 12) ALL DIMENSIONS ARE ASSUMED IN MM IF NOT MENTIONED
- 13) DO NOT SCALE THE DRAWING
- 14) TOP OF THE BEAMS SHOULD BE AT SAME LEVEL
- 15) ALL DIMENSIONS ARE IN MM IF NOT MENTIONED.

CLIENT :-	MR. UMESH THORAT		
ARCHITECT :-	SHREE ASSOCIATES		
PROJECT :-	PROPOSED BUILDING CONSTRUCTION		
TITLE :-	RCC.DETAILS OF F.F BEAM PLAN		
CHECKED BY	DRAWN BY	SCALE	REV.
SANDIP	ROHIT	N.T.S	00

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