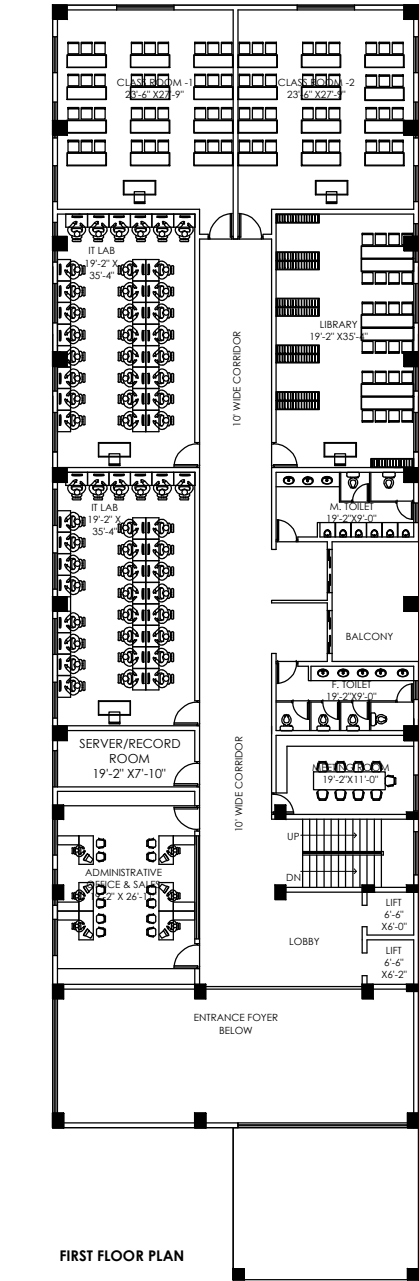
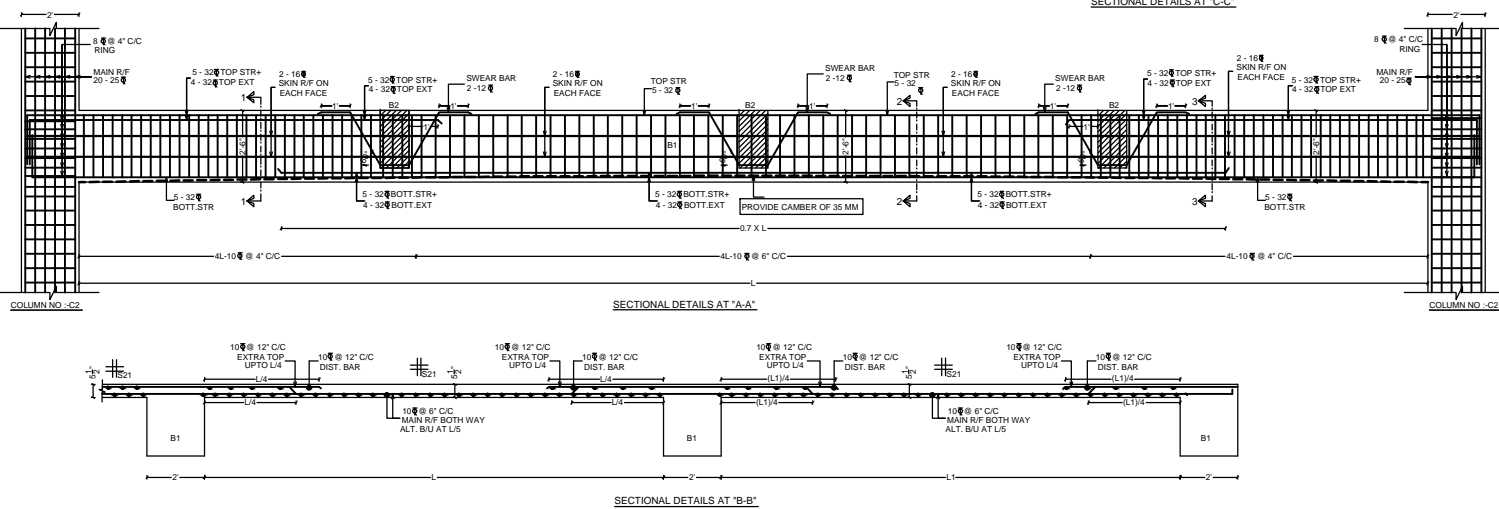
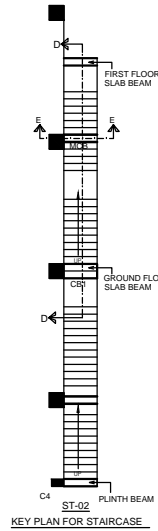


KEY PLAN FOR GROUND FLOOR ROOF SLAB BEAM



FIRST FLOOR PLAN



KEY PLAN FOR STAIRCASE

SCHEDULE FOR GROUND FLOOR ROOF SLAB BEAMS

TYPE	WIDTH (INCHES)	DEPTH (INCHES)	TOP R/F STRAIGHT	TOP R/F UP TO U/L FROM SUPPORT	EXTRA TOP R/F UP TO U/L FROM SUPPORT	BOTTOM EXTRA STRAIGHT	BOTTOM EXTRA UP TO U/L FROM SUPPORT	VERTICAL STIRRUPS	SKIN R/F ON EACH FACE
B1	24"	30"	5-32	4-32	5-32	4-32	4-10	8	2-16
B2	12"	24"	3-16	2-16	3-16	2-16	8	8	---
B3	12"	24"	3-16	---	3-16	---	8	8	---
B4	18"	30"	4-25	2-25	4-25	2-25	4L-10	8	2-16
B5	18"	30"	4-20	2-20	4-20	2-20	4L-8	8	---
B6	8"	24"	3-16	---	3-16	---	8	8	---
B7	12"	24"	4-10	---	4-10	---	8	8	---
B8	18"	24"	4-25	2-25	4-25	2-25	4L-8	8	---
B9	18"	24"	4-25	---	4-25	---	8	8	---
B10	12"	24"	3-20	---	3-20	3-20	8	8	---
B11	18"	24"	3-20	2-20	3-20	2-20	8	8	---
B12	12"	24"	3-20	---	3-20	---	8	8	---
CB	12"	24"	5-16	---	5-16	---	8	8	---
CB1	24"	24"	5-32	---	5-32	---	8	8	---
MCB	12"	24"	4-16	---	4-16	---	8	8	---
HB	8"	24"	2-12	---	2-12	---	8	8	---

SCHEDULE FOR CHIMTA SLAB

TYPE	THICKNESS (INCHES)	MAIN R/F ALT. CHIMTA	DIST. BAR ON EACH FACE	REMARKS
CS	5"	10	8	CHIMTA MESH

SCHEDULE FOR MESH SLAB

TYPE	THICKNESS (INCHES)	BOTTOM R/F BOTHWAYS	TOP R/F BOTHWAYS	REMARKS
S23	6"	10	10	DOUBLE MESH
S24	5"	10	10	DOUBLE MESH

SCHEDULE FOR COLUMNS

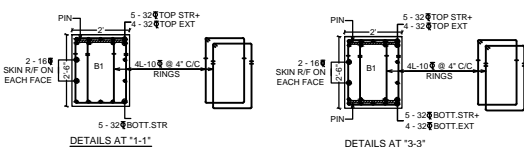
COLUMN NO.	WIDTH	DEPTH	MAIN BARS	RINGS
C1	18"	18"	12-16	8
C2	24"	24"	20-25	8
C3	18"	24"	8-20	8
C4	12"	20"	10-16	8

SCHEDULE FOR STAIRS

TYPE	THICKNESS (INCHES)	MAIN R/F	DIST. BAR	REMARKS
ST-02	6"	10	10	STAIRCASE

SCHEDULE FOR GROUND FLOOR SLABS

TYPE	THICKNESS (MM)	MAIN R/F ALT. UP TO U/L FROM SUPPORT	EXTRA TOP R/F UP TO U/L FROM SUPPORT	DIST.	REMARKS
S11	5"	10	---	8	ONE WAY
S21	5"	10	10	---	TWO WAY
S22	5"	10	10	---	TWO WAY



DETAILS AT "1-1"

DETAILS AT "3-3"

DETAILS AT "2-2"

DETAILS AT "2-2"

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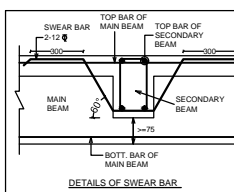
DETAILS AT "2-2"

BUILDING IS DESIGN FOR G+2 ONLY

GRADE OF CONCRETE - M25

GRADE OF STEEL - FE 500

ICAI (GROUND FLOOR ROOF SLAB BEAM DETAILS)



DETAILS OF SWEAR BAR

QUANTITY OF CONCRETE IN CUM	SET OF SAMPLES FOR 7 DAYS CURE TEST	SET OF SAMPLES FOR 28 DAYS CURE TEST
1-5	1	1
6-15	2	2
16-30	3	3
31-50	4	4
51-100	6	6

* 7 DAYS & 28 DAYS TEST REPORT SHALL BE SUBMITTED AFTER CASTING OTHER WISE WE WILL NOT BE RESPONSIBLE FOR CONCRETE STRENGTH

DIA OF BAR	DEV. LENGTH	DIA OF BAR	DEV. LENGTH
6 MM	12 INCHES	12 MM	24 INCHES
8 MM	16 INCHES	16 MM	30 INCHES
10 MM	20 INCHES	20 MM	38 INCHES
25 MM	50 INCHES	32 MM	WELDED

NOTE:- FOR 32 MM DIA BAR IT IS MANDATORY TO WELD THE LAPS
WELDED LAP
40 INCHES
LAPS OF 32 MM DIA BAR SHALL BE WELDED

(1) RCC LIFT WALL TERMINATED AT THIS LEVEL

FOR DIMENSIONS, LEVELS, CENTERLINE AND GENERAL ARRANGEMENT REFER ARCHITECTURAL DRAWING

1) CONSULTANT COPY 2) CLIENT'S COPY 3) SITE COPY 4) OFFICE COPY

- NOTE:-
- 1) ALL DIMENSIONS ARE IN FEET INCHES.
 - 2) S.B.C. OF THE SOIL IS ASSUMED AS 1500 PSF/150 KPa.
 - 3) SHALL BE VERIFIED AT SITE BY SITE ENGINEER.
 - 4) MIN DEPTH OF FOUNDATION SHOULD BE 3 FEET BELOW N.G. LEVEL.
 - 5) USE M25 GRADE OF CONCRETE.
 - 6) DENSITY OF BRICK ASSUMED TO BE 10 KGF/CM³.
 - 7) ALL STRUCTURAL STEEL REINFORCEMENT SHALL BE HIGH STRENGTH DEFORMED BARS OF GRADE FE 500 (CONFORMING TO IS 1786-1985 & 4 MILD STEEL GRADE I CONFORMING TO IS 432-1982 PART 1).
 - 8) PROVIDE CLEAR COVER OF 50 mm FOR FOOTING R/F.
 - 9) PROVIDE CLEAR COVER OF 40 mm FOR COLUMN R/F.
 - 10) PROVIDE CLEAR COVER OF 25 mm FOR BEAM R/F AND 20 mm FOR SLAB R/F.
 - 11) NOT MORE THAN 50 % BARS SHOULD BE LAPPED AT ONE SECTION.
 - 12) EXECUTION SHALL BE AS PER IS 456-2000.
 - 13) FOR DIMENSIONS, LEVELS, CENTERLINE AND GENERAL ARRANGEMENT REFER ARCHITECTURAL DRAWING.
 - 14) ALL LAPS SHOULD BE EXTENDED UP TO DEVELOPMENT LENGTH + 10 DIA OF BAR.
 - 15) LAP SHOULD BE EQUAL TO DEVELOPMENT LENGTH + 10 DIA OF BAR.
 - 16) NO OVERLAPS ARE ALLOWED IN FOOTING.
 - 17) ALL AGGREGATE FOR FOOTING 30mm DOWN AND FOR COLUMN 20mm DOWN.
 - 18) USE CORED HOLLOW COVER BLOCKS OF SAME STRENGTH OF CONCRETE.
 - 19) STRIPPING OF TIME FOR SHUTTERING AS PER IS 456-2000.
 - 20) TOLERANCES FOR FORMWORK, REINFORCEMENT, COVER AS PER IS 456-2000.
 - 21) BACKFILLING IN COLUMN PITS SHALL BE WITH APPROVED SOIL AND COMPACTED PROPERLY TO AVOID SETTLEMENT.
 - 22) USE DESIGNED COATED PLYWOOD FOR SHUTTERING & FORMWORK.
 - 23) USE STEEL PROPS & STEEL SUPPORT FOR FORMWORK.
 - 24) BURNT OIL NOT PERMITTED FOR SHUTTERING, USE MILD OIL.
 - 25) USE SUPER-PLASTICIZER TO MAINTAIN WATER/CEMENT RATIO.
 - 26) CURING-EXPOSED SURFACE OF CONCRETE SHALL BE KEPT CONTINUOUSLY IN WET CONDITION MINIMUM FOR 14 DAYS.
 - 27) GHODI OR CHAIR SPACING @ 400 C/C.
 - 28) GHODI OR CHAIR HEIGHT = SLAB THICKNESS - (30MM + (2X DIA BAR))
 - 29) ALL OUTER PLATH BEAMS BOTTOMS SHALL BE 100 MM BELOW G.L.
 - 30) ALL INNER BEAMS SHALL BE AT PLINTH LEVEL.
 - 31) STUB COLUMN SC ARE ONLY UPTO PLINTH LEVEL.
 - 32) BUILDING IS DESIGN FOR G+2 ONLY.
 - 33) IN RAFT, BOX AND ECCENTRIC FOOTING DO NOT PROVIDE PEDESTAL DETAIL & UNLESS SPECIFIED.
 - 34) IN RAFT, BOX AND ECCENTRIC FOOTING DO NOT PROVIDE PEDESTAL DETAIL & UNLESS SPECIFIED.
 - 35) HIGHER DIAMETER OF BAR SHALL BE PLACED AT SHORTER FACE OF COLUMN.
 - 36) SUPERVISION AT OWNER'S RISK.
 - 37) FOR ISOLATED FOOTING LONG BARS SHALL BE KEPT BELOW SHORT BARS.
 - 38) FOR COMBINED & RAFT FOOTING SHORT BARS SHALL BE KEPT BELOW LONG BARS.
 - 39) TYPICAL DETAILS OF SWEAR BARS AT EVERY JUNCTION OF MAIN BEAM AND SECONDARY BEAM.

- 40) DRINK OF CONCRETE FOR 2 C.C. - 240.
- 41) CONCRETE AND STEEL MATERIAL TESTING AT OWNER'S RISK.
 - 42) POSITION OF DRAIN PIPES IN TOILETS MAY VARY AS PER ARCHITECTURAL REQUIREMENT & SHALL BE 250MM AWAY FROM SUPPORT.
 - 43) VENT PIPES.

R.NO.	REVISION	DATE	DESIGN-	AEC
1.			DEALT -	SHATRUGHNA
2.			DATE -	28/04/2018
3.			SCALE -	VARIABLE
4.				

PROJECT:- PROPOSED ICAI AT PURNA, RAIPUR (C.G.)

TITLE:- STRUCTURAL DETAILS OF GROUND FLOOR ROOF SLAB BEAM

OWNER:-

ARCHITECT:- ARCHITECT SANDEEP NEENA + ASSOCIATES

STRUCTURAL DESIGNER:-
AAJ ENGINEERS AND CONSULTANTS PVT. LTD.
SUNAJ BHASKAR COMPLEX, SECOND FLR., PRATAP NAGAR,
RAIPUR (C.G.)
Ph.No. 9970066936 e-mail: mail@aaajengineers.in

NOTE:- THIS DRAWING SHOULD NOT BE CONSIDERED AS A LEGAL DOCUMENT