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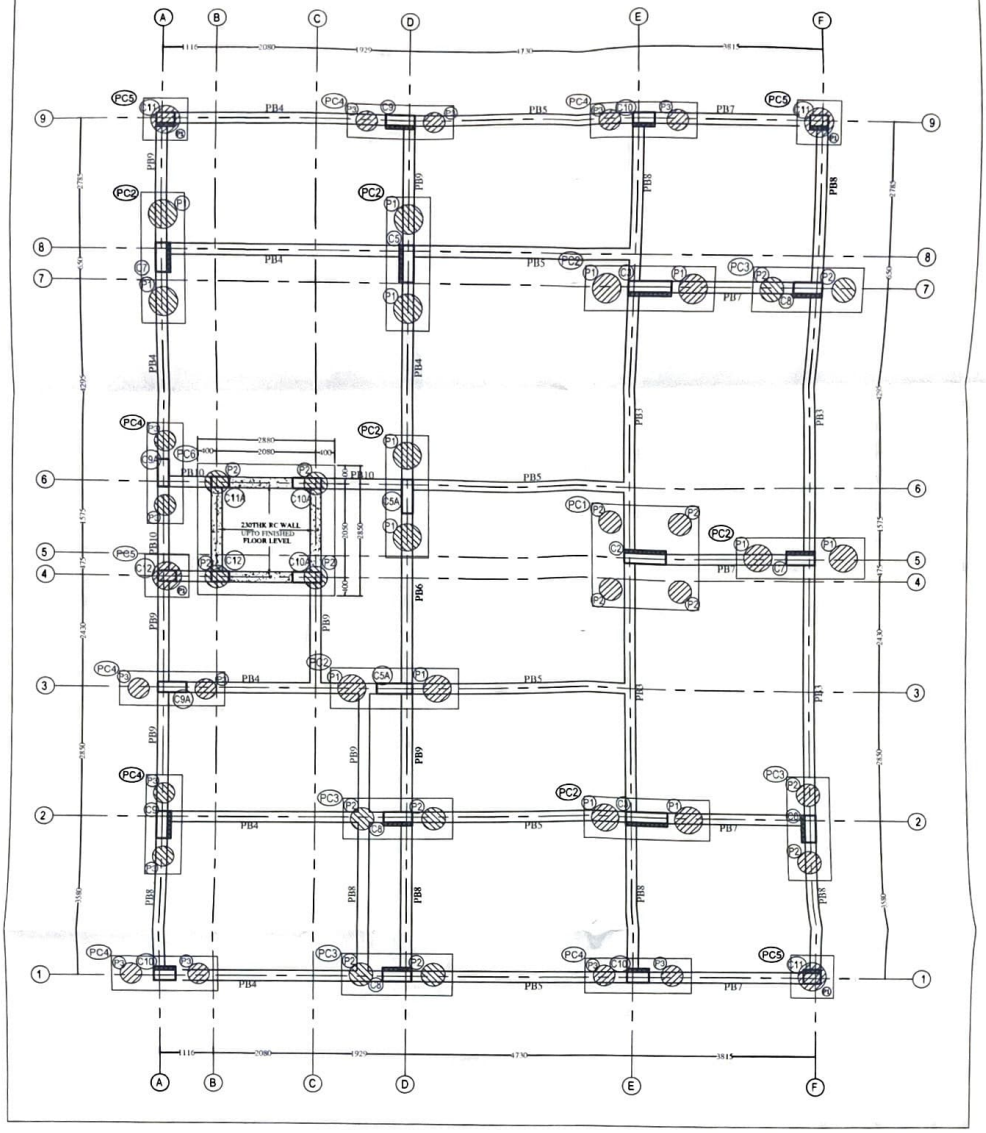
3/350/2 Mettukuppam,
OMR Thoraipakkam,
Chennai, India

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+91 9996 12 9996

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FOUNDATION LAYOUT

IMPORTANT NOTE :-

1. ALL CENTER LINE DIMENSIONS TO BE CHECKED BY ARCHITECT BEFORE SETTING OUT OF PLAN AT SITE.
2. FOR COLUMN WHICH ARE ADJACENT TO THE SUMP BASE SLAB , SEPTIC TANK BASE SLAB , FOR THIS DEPTH OF COLUMN FOUNDATION SHOULD BE TAKEN IN LEVEL WITH THE SUMP BASE SLAB / SEPTIC TANK BASE SLAB LEVEL. IF THE SUMP , SEPTIC TANK BASE SLAB COMES OVER THE FOOTING FOR THIS DEPTH OF COLUMN FOUNDATION SHALL BE TAKEN BELOW THE SEPTIC TANK/ SUMP BASE SLAB BOTTOM LEVEL.
3. IF THE HEIGHT OF THE COLUMN BETWEEN FIRST LEVEL PLINTH BEAM TOP LEVEL TO GROUND FLOOR ROOF SLAB TOP LEVEL EXCEED 12'3" THEN PROVIDE SECOND LEVEL PLINTH BEAM AT BASEMENT LEVEL DETAIL FOR THIS SAME LEVEL PLINTH BEAM SHALL BE OF SIZE (9"X9") (230mmX230mm) WITH 3Nos#12@TOP AND 3Nos#12@BTM AND 8#ST2.@6"&200mmC/C STIRRUPS.

IMPORTANT NOTE FOR M-SAND :-

SAND SHALL BE REPLACED BY M-SAND FULLY OR PARTIALLY IN ANY PROPORTION FOR PLAIN CEMENT CONCRETE, REINFORCEMENT CEMENT CONCRETE EXCEPT COLUMN CONCRETE. FOR COLUMN CONCRETE BETTER TO USE SAND ALONE FOR CONCRETE.
M-SAND SHOULD BE FREE FROM DUST AT SITE AT THE TIME OF USING FOR CONCRETE.
TO CHECK THE M-SAND FOR DUST CONTENT, DRY THE M-SAND AND SPRAY IT AT CERTAIN HEIGHT LEVEL, IF ANY DUST PRESENCE WILL FLY ON THE AIR. ALSO IF WE TAKE A PINCH ALSO IF WE TAKE A PINCH OF DRIED M-SAND ON OUR HAND ANY DUST PRESENCE WILL STICK ON TO OUR PALM OF OUR HAND.

IMPORTANT NOTE FOR LAYING METHOD FOR READY MIX CONCRETE (RMC) :-

1. FOR M25 GRADE CONCRETE PROVIDE 340 KG CEMENT PER CUBIC METER OF READY MIX CONCRETE.
2. THE TIME DURATION OF READY MIX CONCRETE SHALL BE AT THE MAXIMUM OF 90 MINUTES TO 100 MINUTES FOR THE BEST STRENGTH RESULT OF CONCRETE.
3. TIME DURATION INCLUDES FROM THE TIME OF WATER ADDING IN THE BATCHING PLANT (or) TIME OF LORRY DEPARTURE FROM PLANT, TRAVEL TIME, PUMP CONNECTING TIME, PUMPING AND LAYING OF CONCRETE ON FORM WORK.
4. AFTER 60 MINUTES TO 90 MINUTES ON LAYING OF CONCRETE SOME HAIRLINE / MINOR SHRINKAGE CRACKS WILL DEVELOP ON THE TOP SURFACE OF THE CONCRETE. TO RECTIFY THIS, POUR THICK CEMENT SLURRY, FILL IT AND PACK IT WITH BROOM.
5. THE CONCRETE TOP SURFACE SHOULD BE SPRAYED WITH WATER TO START CURING AFTER 120 MINUTES TO 150 MINUTES FROM THE TIME OF CONCRETE LAYING.
6. START CURING WITH STORING WATER ON TOP OF CONCRETE AFTER 240 MINUTES TO 300 MINUTES FROM THE TIME OF CONCRETE LAYING.
7. READY MIX CONCRETE IS NOT ADVISED FOR PILE AND COLUMN CONCRETING.

IMPORTANT NOTE :-

1. CONCRETING AT SITE SHALL BE STARTED ONLY AFTER VERIFYING ALL FABRICATION OF REINFORCEMENT BAR DONE FOR VARIOUS MEMBERS. (Viz) BEAMS, SLABS, COLUMNS, FOOTINGS, ETC. AND SHOULD BE CHECKED AS PER THE STRUCTURAL LATEST REVISION DRAWINGS FOR FABRICATION OF REINFORCEMENT BAR.
2. CONCRETE SHOULD BE DONE MONOLITHICALLY FOR CANTILEVER SLABS AND BEAMS. CONSTRUCTION JOINT IN CONCRETE SHOULD BE FOLLOWED AS PER DIRECTIONS GIVEN BY QUALIFIED CIVIL ENGINEER / SITE IN-CHARGE ENGINEER.

S.P.S. INBARAJAN, M.E. (Struct)
Registered Structural Engineer
Gr-I, S.I. in U.K.D.A
Reg. No. S.E. - 12/2008 Dated: 27.03.2024
Grade I (R.S.E.) Greater Chennai Corporation
Reg. No. E - 1/2008/Grade I/01 09.10.2024
Chennai
West Mambalam, Chennai - 600 033.

PROPOSED RESIDENTIAL APARTMENT BUILDING FOR KURUNJI HOMES AT ADYAR CHENNAI (OPTION-02).

No:50, Kirupasankari Street, West Mambalam,
Chennai - 600 033. Ph : 2485 48 03

S.P.S.Inbarajan, M.E., A.M.I.E.,
Structural Consultant

BOURNA
Consultants - Engineers

FOUNDATION LAYOUT.

DATE :09 .01 .2024 | SCALE 1:25 , 1:50

Dwg No.-
11921
S -01

OPTION: 02
DSND : S.P.S.J
DRN : MD SULTHAN.A

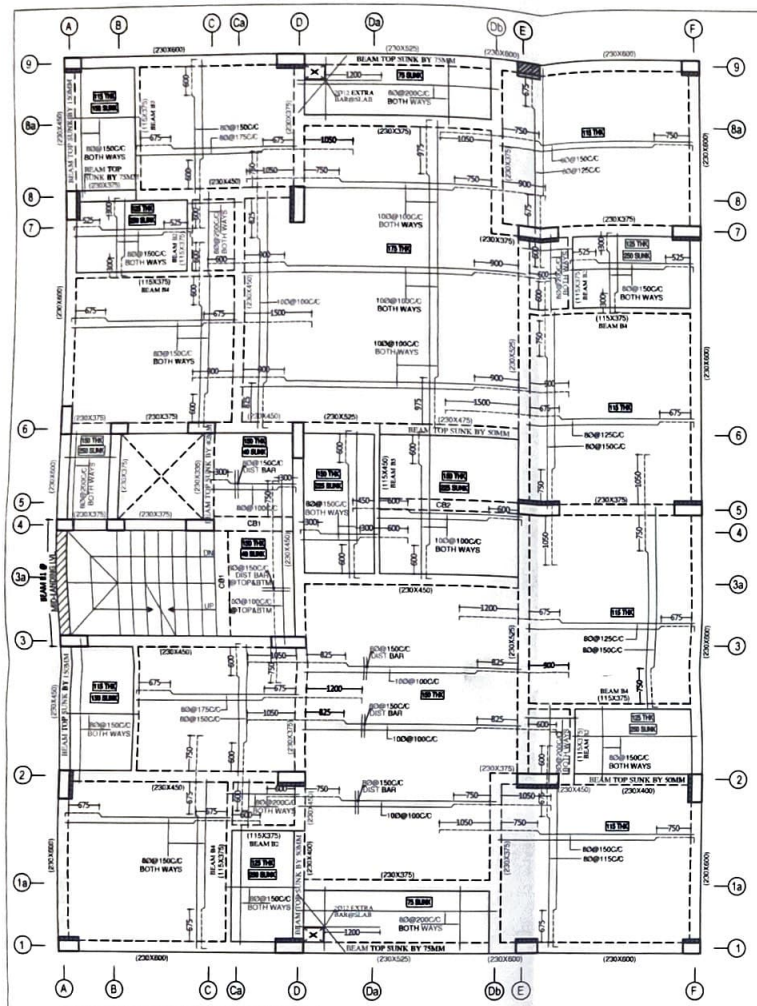
CONCRETE NOTES :

1. CONCRETE SHALL BE OF GRADE M20 (MIX 1:1.5:3) UNLESS NOTE OTHERWISE FOR CONVENTIONAL MIXTURE MACHINE CONCRETE AND CONCRETE SHALL BE OF GRADE M25 FOR READY MIX CONCRETE (340KG CEMENT PER Cum OF READY MIX CONCRETE WITHOUT FLY ASH) EXCEPT FOR PILE , COLUMN CONCRETING FOR COLUMN CONCRETE FOLLOW MIX 1:1.5 GRADE M30.
2. NO BARS ARE MILLSCUTTED, REMAINING ALL OTHERS BARS ARE TORSTEEL CONFORMING TO GRADE Fe500
3. CLEAR COVER TO MAIN R/F SHALL BE AS FOLLOWS. COLUMN FOOTING 2" 50mm, COLUMN 1½"(40mm), RC WALL 1"(25mm), ROOF SLAB ¾"(15mm), ROOF BEAM 1"(25mm), PILE CAP 2" 50mm & PILE 2"(50mm) RAFT SLAB 1½"(40mm), RAFT BEAM 2" 50mm.
4. LAP LENGTH SHALL BE 50 TIMES THE DIAMETER OF SMALLER BAR IN COMPRESSION AND 60 TIMES THE DIAMETER OF SMALLER BAR IN TENSION.
5. FOUNDATION IS DESIGNED FOR STILT, FIRST,SECOND,THIRD & FOURTH FLOOR ONLY

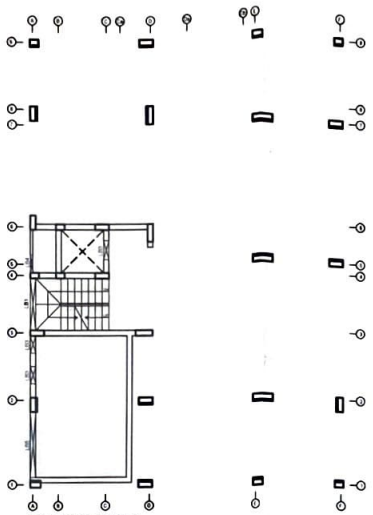
SOIL NOTES :-(APPLICABLE ONLY IF THE TOP SOIL IS CLAY STRATA OTHERWISE IGNORE THIS SOIL NOTES.)

1. THE EXCAVATED SOIL CANNOT BE USED FOR BACKFILLING PURPOSE.
2. IF THE TOP SOIL IS OF MEDIUM SWELLING TYPE THEN IT WILL EXERT UPWARD THRUST ON THE GROUND FLOOR FLOORING. HENCE IT IS SUGGESTED TO REMOVE TOP 30 -40 CMS OF NATURAL SOIL AND REPLACE WITH QUARRY DUST / SAND / GRAVEL FOR GROUND FLOOR FLOORING.
3. AFTER THE EXCAVATION , THE FOUNDATION TRENCHES SHOULD BE COMPACTED PROPERLY BEFORE LAYING THE FOUNDATION. THE TOP LEVEL SHOULD BE REMOVED AND THE SURFACE COMPACTED PROPERLY. AS A PRECAUTIONARY MEASURE, SPREAD BRICK BATS / GRAVELS AND COMPACT THE BOTTOM OF THE PIT. THE FOUNDATIONS CAN BE SUBSEQUENTLY BE PLACED OVER THIS PREPARED SURFACE.

REV	DESCRIPTION	CHKD	DRN	DATE
R1	DRAWING FULLY REVISED AS PER NEW PLAN.	S.P.S.J	SULTHAN.A	16.01.2025

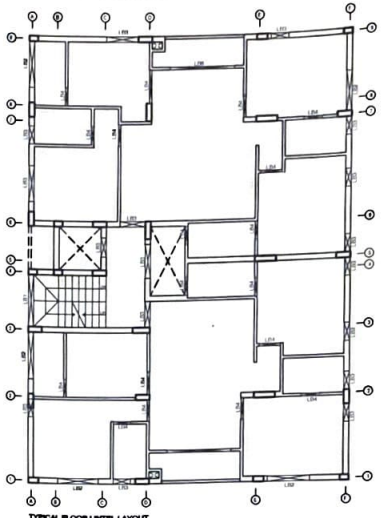


STILT FLOOR ROOF SLAB LAYOUT



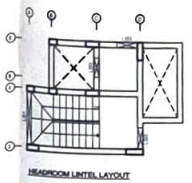
STILT FLOOR LINTEL LAYOUT

LB1,LB4 ARE CONTINOUS LINTEL IN ALL 230MM BRICK WALL (OPENING AND 115MM BRICK WALL (OPENING IN BETWEEN COLUMN AND ALSO ON WALLS WITHOUT OPENING UNLESS NOTED OTHERWISE



TYPICAL FLOOR LINTEL LAYOUT (FIRST,SECOND,THIRD,FOURTH & FIFTH FLOOR)

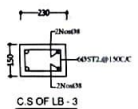
LB1,LB4 ARE CONTINOUS LINTEL IN ALL 230MM BRICK WALL (OPENING AND 115MM BRICK WALL (OPENING IN BETWEEN COLUMN AND ALSO ON WALLS WITHOUT OPENING UNLESS NOTED OTHERWISE



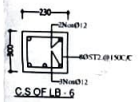
HEADROOM LINTEL LAYOUT

IMPORTANT NOTES

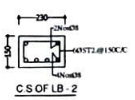
PROVIDE SILL LVL BEAM (230mmX 150mm) WITH 8NOS BEARING ON EITHER SIDE FOR ALL WINDOWS, FRENCH WINDOWS, A/C OPENINGS.
PROVIDE 4Nos8M FOR SILL BEAM WITH STIRRUPS 8@ST2.@150mmC/C



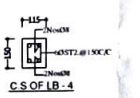
C.S OF LB - 3



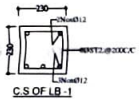
C.S OF LB - 6



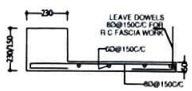
C.S OF LB - 2

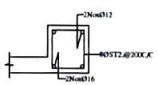


C.S OF LB - 4

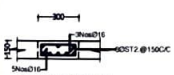


C.S OF LB - 1

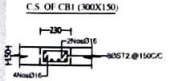




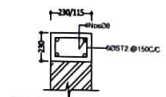
BEAM B1(230X375) @ MID-LANDING LVL



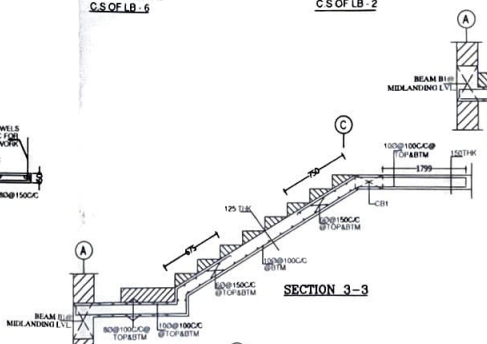
C.S OF CB1 (300X150)



C.S OF CB2(230X150)



TYP. C.S OF SILL LVL BEAM



SECTION 1-1

SECTION 3-3

SECTION 2-2

SECTION 4-4

IMPORTANT NOTES :-

1. ALL SLABS ARE 4"(100mm)THICK, UNLESS NOTED OTHER WISE.
2. PROVIDE 6D@6"(150mm.C.C. (OR) 8D@10"(250mm.C.C. DISTRIBUTORS WHERE EVER NEEDED AT TOP AND BOTTOM OF SLAB.
3. — — — — LINE INDICATES BAR AT TOP IN PLAN ———— LINE INDICATES BAR AT BOTTOM IN PLAN
4. PROVIDE L BEND FOR TOP REINFORCEMENT BAR AT END OF THE BEAM FOR BEAMS DETAIL GIVEN IN CROSS SECTION. PROVIDE L BEND 7"(178mm) IN THE SLAB CRANKED REINFORCEMENT BAR IN TO THE BEAM. WHICH ARE NOT CONTINUING TO THE ADJACENT SLAB.

IMPORTANT NOTE FOR LAYING METHOD FOR READY MIX CONCRETE (RMC) :-

1. FOR M25 GRADE CONCRETE PROVIDE 340 KG CEMENT PER CUBIC METER OF READY MIX CONCRETE.
2. THE TIME DURATION OF READY MIX CONCRETE SHALL BE AT THE MAXIMUM OF 90 MINUTES TO 100 MINUTES FOR THE BEST STRENGTH RESULT OF CONCRETE.
3. TIME DURATION INCLUDES FROM THE TIME OF WATER ADDING IN THE BATCHING PLANT (i.e) TIME OF LORRY DEPARTURE FROM PLANT. TRAVEL TIME. PUMP CONNECTING TIME , PUMPING AND LAYING OF CONCRETE ON FORM WORK.
4. AFTER 60 MINUTES TO 90 MINUTES ON LAYING OF CONCRETE SOME HAIRLINE / MINOR SHRINKAGE CRACKS WILL DEVELOP ON THE TOP SURFACE OF THE CONCRETE. TO RECTIFY THIS, POUR THICK CEMENT SLURRY. FILL IT AND PACK IT WITH BROOM.
5. THE CONCRETE TOP SURFACT SHOULD BE SPRAYED WITH WATER TO START CURING AFTER 120 MINUTES TO 150 MINUTES FROM THE TIME OF CONCRETE LAYING.
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7. READY MIX CONCRETE IS NOT ADVISED FOR PILE AND COLUMN CONCRETING.

IMPORTANT NOTE FOR M-SAND :-

SAND SHALL BE REPLACED BY M-SAND FULLY OR PARTIALLY IN ANY PROPORTION FOR PLAIN CEMENT CONCRETE, REINFORCEMENT CEMENT CONCRETE EXCEPT COLUMN CONCRETE FOR COLUMN CONCRETE BETTER TO USE SAND ALONE FOR CONCRETE.
M-SAND SHOULD BE FREE FROM DUST AT SITE AT THE TIME OF USING FOR CONCRETE.
TO CHECK THE M-SAND FOR DUST CONTENT. DRY THE M-SAND AND SPRAY IT AT CERTAIN HEIGHT LEVEL. IF ANY DUST PRESENCE WILL FLY ON THE AIR. ALSO IF WE TAKE A PINCH ALSO IF WE TAKE A PINCH OF DRIED M-SAND ON OUR HAND ANY DUST PRESENCE WILL STICK ON TO OUR PALM OF OUR HAND.

REV	DESCRIPTION	CHKD	DRN	DATE
R1	DRAWING FULLY REVISED AS PER NEW PLAN	S.P.S.I	SUCHA	21.01.25

PROPOSED RESIDENTIAL APARTMENT BUILDING FOR KURUNJI HOMES AT ADYAR CHENNAI (OPTION-02).

STILT FLOOR ROOF SLAB LAYOUT
STILT&TYPICAL FLOORS LINTEL LAYOUT AND STAIRCASE DETAILS

Dwg No. 11921 S -04
OPTION 02
DRWD S.P.S.I
DRN SUCHA
DATE 09 01 2024
SCALE 1:25 1:50

S.P.S Inbarajan, M.E., A.M.I.E.
Structural Consultant

No.20, Kirubanandham Street, Vinayagapuram, Mambalam, Chennai - 600 033. Ph: 9444 44 03

BOURNA
Consultants - Engineers

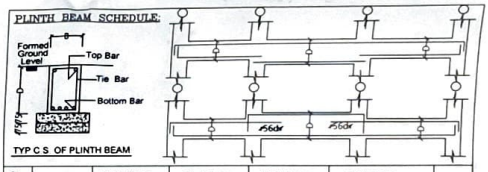
S.P.S INBARAJAN M.E. (Struct)
Chartered Structural Engineer
Regn.No.

CONCRETE SHALL BE GRAD OF M35 MIX (1:1:2) FOR ALL COLUMN

COLUMN DETAILS ST.F.= STILT FLOOR 1st.F.= FIRST FLOOR 2nd.F.=SECOND FLOOR 3rd.F.= THIRD FLOOR 4th.F.= FOURTH FLOOR 5th.F.= FIFTH FLOOR

SL No	Name Of Column	Column Size	Main Reinforcement	Column Tie	Column Section Rod Detail
1	C1	ST.F = (300X900)	26Nos Ø20+ 10Nos Ø12	(4Nos Of Set) 8Ø@200C/C	Agg.10Nos Ø12
		1st.F = (230X900)	26Nos Ø20	(3Nos Of Set) 8Ø@200C/C	
		2nd.F = (230X900)	8Nos Ø20+ 20Nos Ø16		
		3rd.F = (230X900)	8Nos Ø20+ 20Nos Ø12		
		4th.F = (230X750)	20Nos Ø12		
		5th.F = (230X600)	14Nos Ø12	(2Nos Of Set) 8Ø@200C/C	
2	C2	ST.F = (300X900)	22Nos Ø20+ 10Nos Ø12	(4Nos Of Set) 8Ø@200C/C	Agg.10Nos Ø12
		1st.F = (230X900)	22Nos Ø20		
		2nd.F = (230X900)	4Nos Ø20+ 18Nos Ø16		
		3rd.F = (230X900)	4Nos Ø20+ 18Nos Ø12	(3Nos Of Set) 8Ø@200C/C	
		4th.F = (230X750)	18Nos Ø12		
		5th.F = (230X600)	10Nos Ø12	(2Nos Of Set) 8Ø@200C/C	
3	C3	ST.F = (300X900)	18Nos Ø20+ 10Nos Ø12	(4Nos Of Set) 8Ø@200C/C	Agg.10Nos Ø12
		1st.F = (230X900)	18Nos Ø20		
		2nd.F = (230X900)	18Nos Ø16	(3Nos Of Set) 8Ø@200C/C	
		3rd.F = (230X900)	18Nos Ø12		
		4th.F = (230X750)	16Nos Ø12		
		5th.F = (230X600)	10Nos Ø12	(2Nos Of Set) 8Ø@200C/C	
4	C4	ST.F = (300X750)	20Nos Ø20+ 8Nos Ø12	(4Nos Of Set) 8Ø@200C/C	Agg.8Nos Ø12
		1st.F = (230X750)	20Nos Ø20		
		2nd.F = (230X750)	4Nos Ø20+ 16Nos Ø16		
		3rd.F = (230X750)	4Nos Ø20+ 16Nos Ø12	(3Nos Of Set) 8Ø@200C/C	
		4th.F = (230X750)	16Nos Ø12		
		5th.F = (230X600)	10Nos Ø12	(2Nos Of Set) 8Ø@200C/C	
5	C5	ST.F = (300X750)	16Nos Ø20 8Nos Ø12	(4Nos Of Set) 8Ø@200C/C	Agg.8Nos Ø12
		1st.F = (230X750)	16Nos Ø20	(3Nos Of Set) 8Ø@200C/C	
		2nd.F = (230X750)	4Nos Ø20 12Nos Ø16		
		3rd.F = (230X750)	4Nos Ø20 12Nos Ø12		
		4th.F = (230X600)	14Nos Ø12	(2Nos Of Set) 8Ø@200C/C	
		5th.F = (230X600)	10Nos Ø12		
6	C6	ST.F = (230X750)	18Nos Ø20	(3Nos Of Set) 8Ø@200C/C	
		1st.F = (230X750)	18Nos Ø16		
		2nd.F = (230X750)	8Nos Ø16+ 12Nos Ø12		
		3rd.F = (230X750)	14Nos Ø12		
		4th.F = (230X600)	10Nos Ø12	(2Nos Of Set) 8Ø@200C/C	
		5th.F = (230X600)	10Nos Ø12		
7	C7	ST.F = (300X600)	14Nos Ø20+ 6Nos Ø12	(3Nos Of Set) 8Ø@200C/C	Agg.6Nos Ø12
		1st.F = (230X600)	14Nos Ø20		
		2nd.F = (230X600)	10Nos Ø20	(2Nos Of Set) 8Ø@200C/C	
		3rd.F = (230X600)	10Nos Ø16		
		4th.F = (230X600)	10Nos Ø12		
		5th.F = (230X600)	10Nos Ø12		
8	C8	ST.F = (300X600)	10Nos Ø20+ 6Nos Ø12	(3Nos Of Set) 8Ø@200C/C	Agg.6Nos Ø12
		1st.F = (230X600)	10Nos Ø20		
		2nd.F = (230X600)	10Nos Ø16	(2Nos Of Set) 8Ø@200C/C	
		3rd.F = (230X600)	10Nos Ø12		
		4th.F = (230X450)	8Nos Ø12	8Ø@200C/C	
		5th.F = (230X450)	8Nos Ø12		
9	C9	ST.F = (300X600)	12Nos Ø16+ 6Nos Ø12	(3Nos Of Set) 8Ø@200C/C	Agg.6Nos Ø12
		1st.F = (230X600)	12Nos Ø16		
		2nd.F = (230X600)	12Nos Ø12	(2Nos Of Set) 8Ø@200C/C	
		3rd.F = (230X600)	10Nos Ø12		
		4th.F = (230X450)	8Nos Ø12	8Ø@200C/C	
		5th.F = (230X450)	8Nos Ø12		
10	C10	ST.F = (300X450)	8Nos Ø20+ 4Nos Ø12	(2Nos Of Set) 8Ø@200C/C	Agg.4Nos Ø12
		1st.F = (230X450)	8Nos Ø20		
		2nd.F = (230X450)	8Nos Ø16		
		3rd.F = (230X450)	8Nos Ø12	8Ø@200C/C	
		4th.F = (230X450)	8Nos Ø12		
		5th.F = (230X450)	8Nos Ø12		
11	C11	ST.F = (300X375)	4Nos Ø16+ 4Nos Ø12+ 3Nos Ø12+	(2Nos Of Set) 8Ø@200C/C	Agg.3Nos Ø12
		1st.F = (230X375)	4Nos Ø16+ 4Nos Ø12		
		2nd.F = (230X375)	8Nos Ø12		
		3rd.F = (230X375)	6Nos Ø12	8Ø@200C/C	
		4th.F = (230X375)	6Nos Ø12		
		5th.F = (230X375)	6Nos Ø12		
12	C12	ST.F = (230X375)	4Nos Ø16+ 4Nos Ø12	8Ø@200C/C	
		1st.F = (230X375)	8Nos Ø12		
		2nd.F = (230X375)	8Nos Ø12		
		3rd.F = (230X375)	8Nos Ø12		
		4th.F = (230X375)	8Nos Ø12		
		5th.F = (230X375)	8Nos Ø12		
13	C13	ST.F = (230X900)	26Nos Ø20	(3Nos Of Set) 8Ø@200C/C	
		1st.F = (230X450)	10Nos Ø16	(2Nos Of Set) 8Ø@200C/C	
		2nd.F = (230X450)	6Nos Ø16	8Ø@200C/C	
		3rd.F = (230X450)	6Nos Ø12		
		4th.F = (230X450)	8Nos Ø12		
		5th.F = (230X450)	8Nos Ø12		
5	C5A	ST.F = (230X750)	22Nos Ø20	(3Nos Of Set) 8Ø@200C/C	
		1st.F = (230X750)	16Nos Ø20		
		2nd.F = (230X750)	4Nos Ø20 12Nos Ø16		
		3rd.F = (230X750)	4Nos Ø20 12Nos Ø12		
		4th.F = (230X600)	14Nos Ø12	(2Nos Of Set) 8Ø@200C/C	
		5th.F = (230X600)	10Nos Ø12		
15	C9A	ST.F = (230X600)	14Nos Ø20	(2Nos Of Set) 8Ø@200C/C	
		1st.F = (230X600)	12Nos Ø16		
		2nd.F = (230X600)	12Nos Ø12		
		3rd.F = (230X600)	10Nos Ø12		
		4th.F = (230X450)	8Nos Ø12	8Ø@200C/C	
		5th.F = (230X450)	8Nos Ø12		
16	C10A	ST.F = (230X600)	10Nos Ø20	(2Nos Of Set) 8Ø@200C/C	
		1st.F = (230X450)	8Nos Ø20		
		2nd.F = (230X450)	8Nos Ø16		
		3rd.F = (230X450)	8Nos Ø12	8Ø@200C/C	
		4th.F = (230X450)	8Nos Ø12		
		5th.F = (230X450)	8Nos Ø12		
17	C11A	ST.F = (230X375)	8Nos Ø16	8Ø@200C/C	
		1st.F = (230X375)	4Nos Ø16+ 4Nos Ø12		
		2nd.F = (230X375)	8Nos Ø12		
		3rd.F = (230X375)	8Nos Ø12		
		4th.F = (230X375)	8Nos Ø12		
		5th.F = (230X375)	8Nos Ø12		

PLINTH BEAM SCHEDULE:



SL No.	Name Of Plinth Beam	Plinth Beam Size (BXD)	Plinth Beam Top Bar	Plinth Beam Bottom Bar	Plinth Beam Tie	
1	PB1	(230X450)	3Nos Ø16	4Nos Ø16	8ØST2 @200C/C	Formed Ground Level
2	PB2	(230X450)	3Nos Ø16	3Nos Ø16+ 3Nos Ø16	8ØST2 @100C/C 8ØST2 @200C/C 8ØST2 @100C/C	
3	PB3	(230X450)	3Nos Ø16	3Nos Ø16+ 2Nos Ø16	8ØST2 @125C/C 8ØST2 @250C/C 8ØST2 @125C/C	
4	PB4	(230X450)	2Nos Ø16	4Nos Ø16	8ØST2 @200C/C	
5	PB5	(230X450)	2Nos Ø16	3Nos Ø16+ 1Nos Ø12	8ØST2 @200C/C	
6	PB6	(230X450)	2Nos Ø16	3Nos Ø16	8ØST2 @200C/C	
7	PB7	(230X375)	2Nos Ø12	2Nos Ø16+ 1Nos Ø12	8ØST2 @200C/C	
8	PB8	(230X375)	2Nos Ø12	4Nos Ø12	8ØST2 @250C/C	
8	PB9	(230X375)	2Nos Ø12	3Nos Ø12	8ØST2 @250C/C	
8	PB10	(230X375)	2Nos Ø12	2Nos Ø12	8ØST2 @250C/C	

S.P.S. INBARAJAN, M.E. (Struct)
Regd. Structural Engineer
C.No.SE/0...
Reg. No. SE/...
Date: 27.03.2024
Corporation
Date: 10.2024
Door No.29, Thiruvalluvar Nagar Main Road,
West Mambalam, Chennai - 600 033.

PROPOSED RESIDENTIAL APARTMENT BUILDING FOR KURUNJI HOMES AT ADYAR CHENNAI (OPTION-02).

No:50, Kirupasankari Street, West Mambalam, Chennai - 600 033. Ph : 2466 46 03

S.P.S.Inbarajan, M.E., A.M.I.E., Structural Consultant

BOURNA Consultants - Engineers

COLUMN & PLINTH BEAM SECHEDULE

DATE 09.01.2024 | SCALE 1:25 , 1:50

Dwg No.: 11921 S -02

OPTION: 02 | DSND: S.P.S.I | DRN : MD SULTHANA

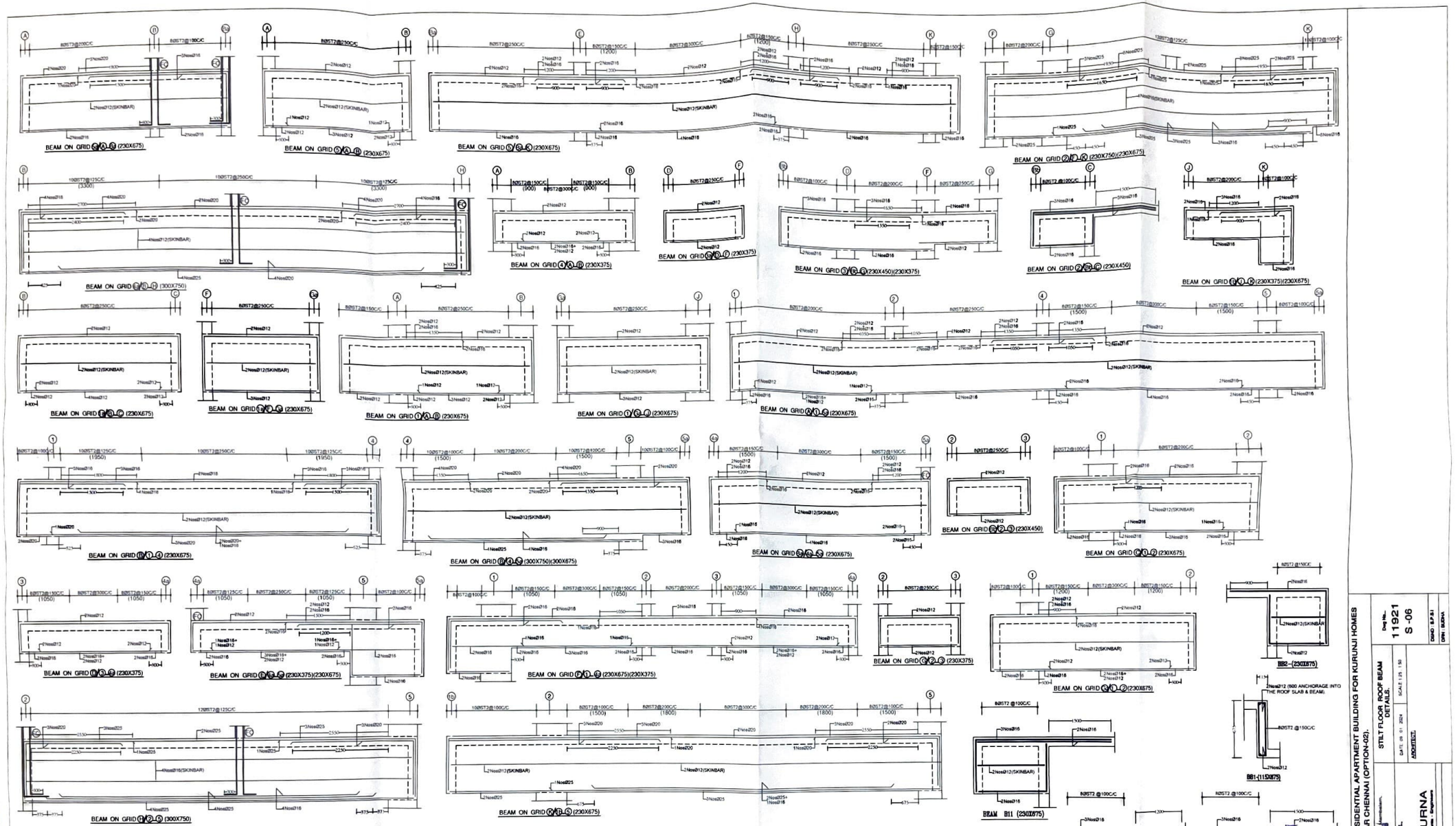
CONCRETE NOTES

1. CONCRETE SHALL BE OF GRADE M30 (MIX 1:1.5:3) UNLESS NOTED OTHERWISE. FOR CONVENTIONAL MIXTURE MACHINE CONCRETE AND CONCRETE SHALL BE OF GRADE M25 FOR READY MIX CONCRETE. 340KG CEMENT PER Cu.m OF READY MIX CONCRETE WITHOUT FLYASH EXCEPT FOR PILE. COLUMN CONCRETING FOR COLUMN CONCRETE FOLLOW MIX 1:1:2 (TRADE MIX).
2. 6ø BARS ARE MILDSTEEL REMAINING ALL OTHERS BARS ARE TORSTEEL CONFORMING TO IS 1786 : 2008
3. CLEAR COVER TO MAIN RF SHALL BE AS FOLLOWS:- COLUMN FOOTING 2" (50mm), COLUMN 1½" (40mm), RC WALL 1½"(40mm), ROOF SLAB ¾" (15mm), ROOF BEAM 1½"(40mm), PILE CAP 2", 50mm), & PILE 2"(50mm), RAFT SLAB 1½"(40mm), RAFT BEAM 2" (50mm).
4. LAP LENGTH SHALL BE OF 50 TIMES THE DIAMETER OF SMALLER BAR IN COMPRESSION AND 60 TIMES THE DIAMETER OF SMALLER BAR IN TENSION.
5. FOUNDATION IS DESIGNED FOR STILT ,FIRST ,SECOND,THIRD & FOURTH FLOOR ONLY.

SOIL NOTES - (APPLICABLE ONLY IF THE TOP SOIL IS CLAY STRATA. OTHERWISE, IGNORE THIS SOIL NOTES.)

1. THE EXCAVATED SOIL CANNOT BE USED FOR BACKFILLING PURPOSE.
2. IF THE TOP SOIL IS OF MEDIUM SWELLING TYPE THEN IT WILL EXERT UPWARD THRUST ON THE GROUND FLOOR FLOORING. HENCE IT IS SUGGESTED TO REMOVE TOP 30 40 CMS OF NATURAL SOIL AND REPLACE WITH QUARRY DUST / SAND / GRAVEL FOR GROUND FLOOR FLOORING.
3. AFTER THE EXCAVATION , THE FOUNDATION TRENCHES SHOULD BE COMPACTED PROPERLY BEFORE LAYING THE FOUNDATION. THE TOP SLUSH SHOULD BE REMOVED AND THE SURFACE COMPACTED PROPERLY. AS A PRECAUTIONARY MEASURE, SPREAD BRICK BATS / GRAVELS AND COMPACT THE BOTTOM OF THE PIT. THE FOUNDATIONS CAN BE IS SUBSEQUENTLY BE PLACED OVER THIS PREPARED SURFACE.

REV	DESCRIPTION	CHKD	DRN	DATE
R1	DRAWING FULLY REVISED AS PER NEW PLAN	S.P.S.I	SULTHANA	16.01.2025



PROPOSED RESIDENTIAL APARTMENT BUILDING FOR KURUNJI HOMES AT ADYAR CHENNAI (OPTION-02).

STILT FLOOR ROOF BEAM DETAILS.

Dwg No. 11921 S -06

DATE: 09.01.2024 SCALE: 1:25, 1:50

ARCHITECT:

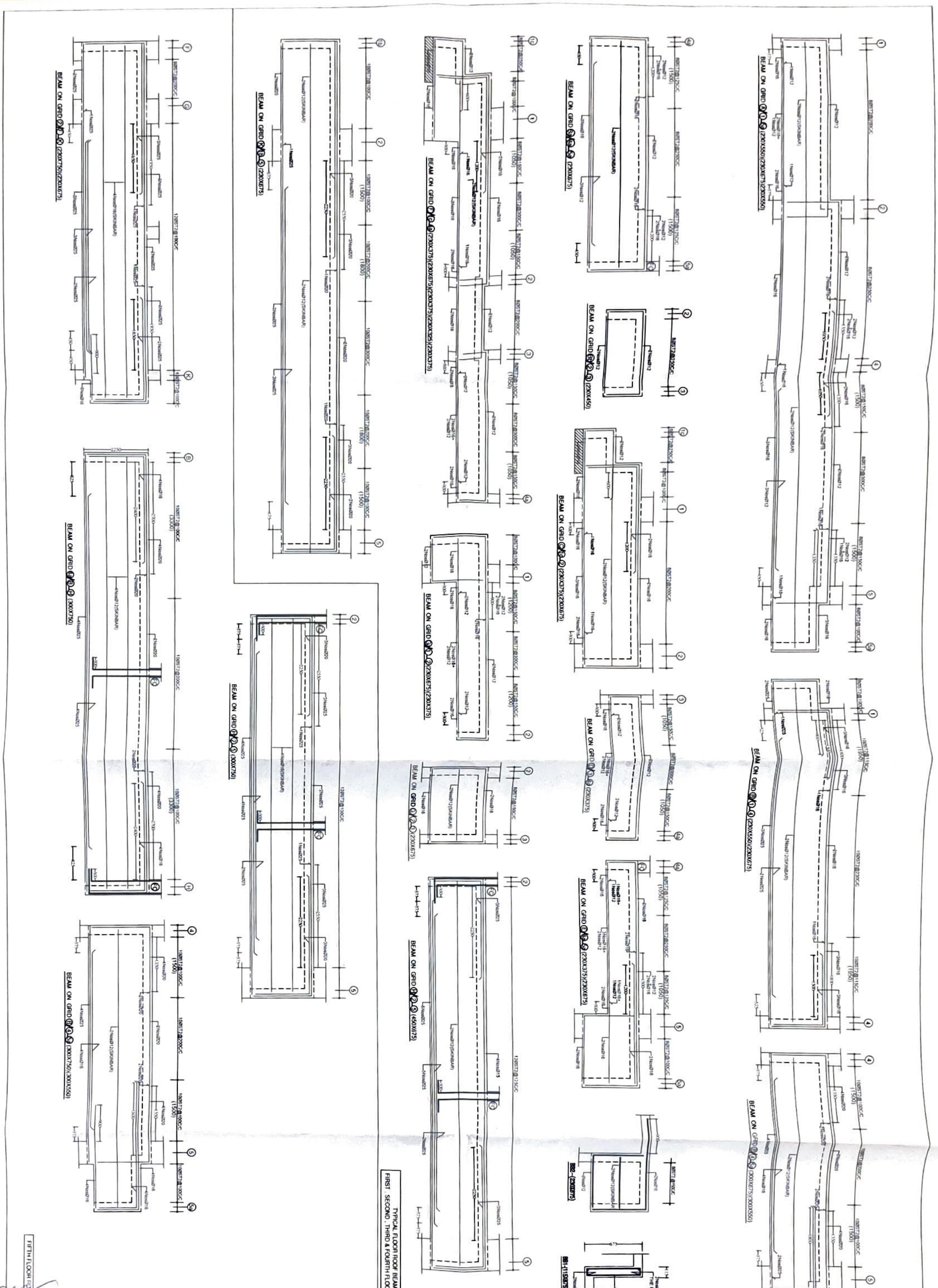
DSGD : S.P.S.I

DRN : BUDHA

S.P.S.Inbarajan, M.E., A.M.I.E., Structural Consultant

BOURNA Consultants - Engineers

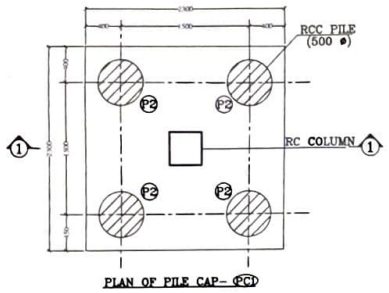
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Registered Structural Engineer
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Reg No SE/GR-I/224/2009 dt. 27.02.2009
Reg No RSE 10 (Tamilnadu)
Grade-I (RSE) in Greater Chennai Corporation
Door No 50, Krupasankari Street,
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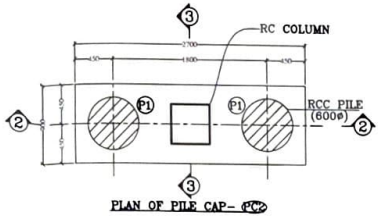
S.P.S. INBARAJAN, M.E., (Struct)
Registered Structural Engineer
Grade-I (SE) in CMDA
Reg. No. SE/GR-1/2024/02/009 dt. 27.02.2024
Grade-I (RSE) in Greater Chennai Corporation
Reg. No. RSE 100302024 Dt. 09.10.2024
Door No 50, Kirupasankari Street,
West Mambalam, Chennai-600 033

PROPOSED RESIDENTIAL APARTMENT BUILDING FOR KURUNJI HOMES AT ADYAR CHENNAI (OPTION-02).

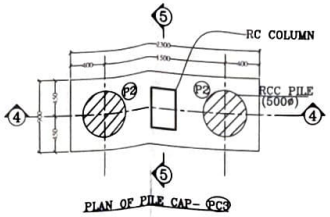
No:50, Kirupasankari Street, West Mambalam, Chennai - 600 033. Ph : 2488 48 03	TYPICAL (F.F, S.F, T.F &F.F), FIFTH FLOOR ROOF BEAM DETAILS.	Dwg No.. 11921 S -07
S.P.S.Inbarajan, M.E., A.M.I.E., Structural Consultant BOURNA Consultants - Engineers	DATE 08 01 2024 / SCALE 1:25 1:50 ARCHITECT:	DSND : S.P.S.I DRN : SUDHA



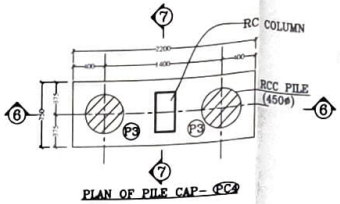
PLAN OF PILE CAP- (PC1)



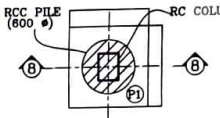
PLAN OF PILE CAP- (PC2)



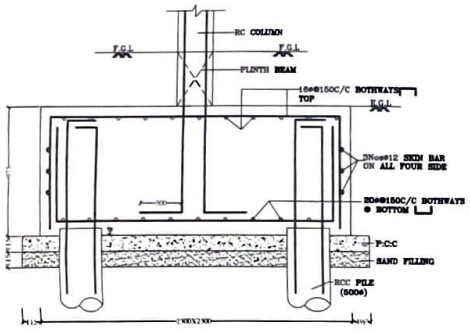
PLAN OF PILE CAP- (PC3)



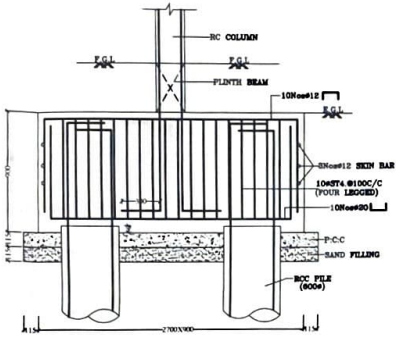
PLAN OF PILE CAP- (PC4)



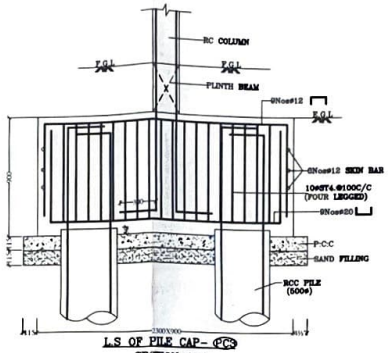
PLAN OF PILE CAP- (PC5)



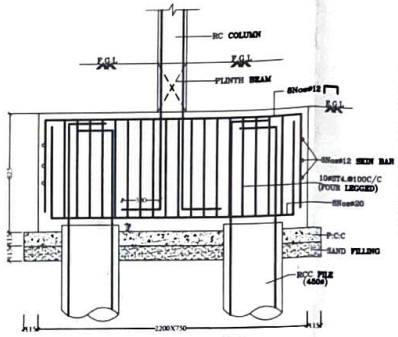
L.S OF PILE CAP- (PC1)
SECTION 1-1



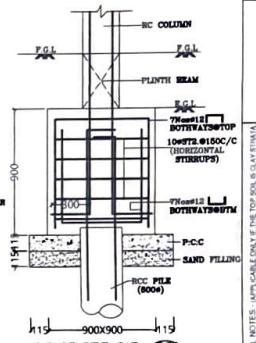
L.S OF PILE CAP- (PC2)
SECTION 2-2



L.S OF PILE CAP- (PC3)
SECTION 4-4



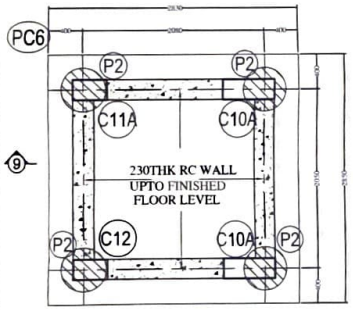
L.S OF PILE CAP- (PC4)
SECTION 6-6



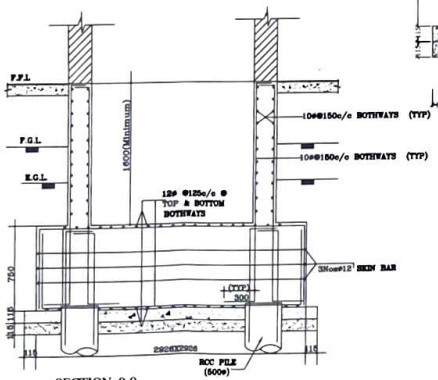
L.S OF PILE CAP- (PC5)
SECTION 8-8

IMPORTANT NOTE FOR LAYING METHOD FOR READY MIX CONCRETE (RMC) :-

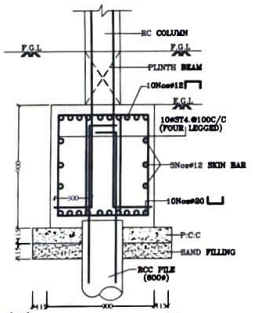
1. FOR M25 GRADE CONCRETE PROVIDE 340 KG CEMENT PER CUBIC METER OF READY MIX CONCRETE.
2. THE TIME DURATION OF READY MIX CONCRETE SHALL BE AT THE MAXIMUM OF 90 MINUTES TO 120 MINUTES FOR THE BEST STRENGTH RESULT OF CONCRETE.
3. TIME DURATION INCLUDES FROM THE TIME OF WATER ADDING IN THE BATCHING PLANT i.e; TIME OF LORRY DEPARTURE FROM PLANT, TRAVEL TIME, PUMP CONNECTING TIME, PUMPING AND LAYING OF CONCRETE ON FORM WORK.
4. AFTER 60 MINUTES TO 90 MINUTES ON LAYING OF CONCRETE SOME HAILING / MINOR SHRINKAGE CRACKES WILL DEVELOP ON THE TOP SURFACE OF THE CONCRETE. TO RECTIFY THIS, FOUR THICK CEMENT SLURRY, FILL IT AND PACK IT WITH BROOM.
5. THE CONCRETE TOP SURFACE SHOULD BE SPRAYED WITH WATER TO START CURING AFTER 120 MINUTES TO 150 MINUTES FROM THE TIME OF CONCRETE LAYING.
6. START CURING WITH STORING WATER ON TOP OF CONCRETE AFTER 240 MINUTES TO 300 MINUTES FROM THE TIME OF CONCRETE LAYING.
7. READY MIX CONCRETE IS NOT ADVISED FOR PILE AND COLUMN CONCRETING.



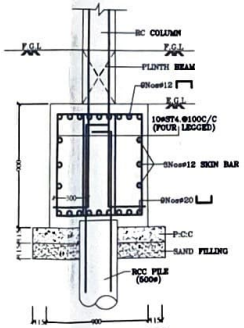
PLAN OF PILE CAP- (PC6)



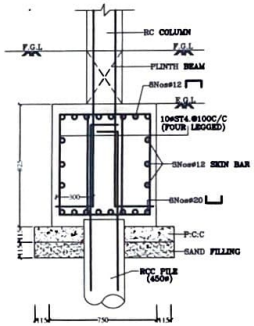
SECTION 9-9
PLAN OF PILE CAP- (PC6)



C.S OF PILE CAP- (PC2)
SECTION 3-3



C.S OF PILE CAP- (PC3)
SECTION 5-5



C.S OF PILE CAP- (PC4)
SECTION 7-7

PILE NOTES :-

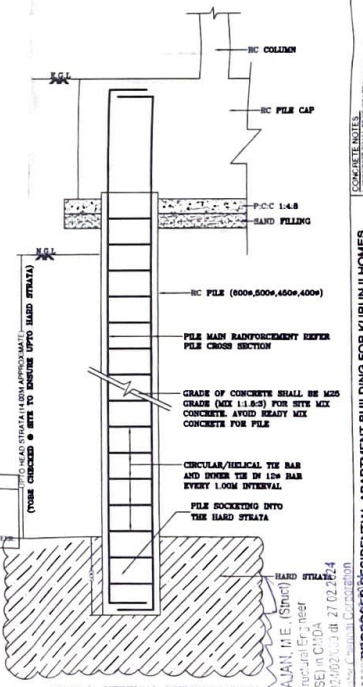
BORED CAST IN SITU END BEARING DRIVEN PILE BY DIRECT MUD CIRCULATION METHOD (DMC).
BORING TERMINATED AT A DEPTH WHERE 'N' VALUE IN SPT TEST IS MORE THAN 100 FOR MULTI STOREY BUILDING (HEIGHT EXCEEDING 15.0 METER) AND 50 FOR OTHER BUILDING (HEIGHT LESS THAN 15.0 METER) AND AN EXTRA PENETRATION FOR MINIMUM OF 600mm (PILE SOCKETING) BEYOND ABOVE LEVEL IN THE HARD STRATA.
APPROXIMATELY 10 Nos OF PILE ARE TO BE TESTED FOR INITIAL LOADING. CONCRETING FOR THE PILE SHALL BE DONE USING THE TREMIE PIPE IN THE SHAFT FOR PROPER PLACING AND COMPACTION OF CONCRETE. THE DESIGN SAFE LOADS FOR THE PILES ARE AS FOLLOWS 600D 113 TONNES 500D 78 TONNES AND 6J TONNES, AND 50 TONNES.
INITIAL LOAD TEST ON PILES SHALL BE DONE FOR 2.0 TIMES THE DESIGN SAFE LOAD AND ROUTINE LOAD TEST ON WORKING PILES SHALL BE DONE FOR 1.5 TIMES THE DESIGN SAFE LOAD OR FOR 12mm SETTLEMENT WHICH EVER IS MINIMUM AS PER THE IS 2911 (PART IV) CHIPPING OF PILE SHALL BE DONE FOR A LENGTH OF MINIMUM 500mm BEFORE LAYING OF PILE CAP
METHOD OF CONCRETING OF PILE.
AFTER COMPLETION OF PILE BORING FLUSH THE BORE INITIALLY AND THEN PLACE THE PILE REINFORCEMENT CAGE INSIDE THE PILE BORE. PLACE THE TREMIE PIPE INSIDE THE REINFORCEMENT CAGE UP TO THE BOTTOM LEVEL OF BORE THEN START THE CONCRETING OF PILE THROUGH THE TREMIE PIPE. MAINTAIN ALWAYS TREMIE PIPE FOR A LENGTH OF 0.5 METER INSIDE THE CONCRETE DURING THE TIME OF CONCRETING.
THEORETICAL ACTUAL VOLUME OF CONCRETE TO BE CHECKED AT THE TIME OF CONCRETING
READY MIX CONCRETE SHOULD NOT BE USED FOR PILE CONCRETING

IMPORTANT NOTE :-

1. CONCRETING AT SITE SHALL BE STARTED ONLY AFTER VERIFYING ALL FABRICATION OF REINFORCEMENT BAR DONE FOR VARIOUS MEMBERS. (Viz) BEAMS, SLABS, COLUMNS, FOOTINGS, ETC. AND SHOULD BE CHECKED AS PER THE STRUCTURAL LATEST REVISION DRAWINGS FOR FABRICATION OF REINFORCEMENT BAR.
2. CONCRETE SHOULD BE DONE MONOLITHICALLY FOR CANTILEVER SLABS AND BEAMS. CONSTRUCTION JOINT IN CONCRETE SHOULD BE FOLLOWED AS PER DIRECTIONS GIVEN BY QUALIFIED CIVIL ENGINEER / SITE IN-CHARGE ENGINEER

IMPORTANT NOTE FOR M-SAND :-

SAND SHALL BE REPLACED BY M SAND FULLY OR PARTIALLY IN ANY PROPORTION FOR PLAIN CEMENT CONCRETE, REINFORCEMENT CEMENT CONCRETE EXCEPT COLUMN CONCRETE. FOR COLUMN CONCRETE BETTER TO USE SAND ALONE FOR CONCRETE.
M-SAND SHOULD BE FREE FROM DUST AT SITE AT THE TIME OF USING FOR CONCRETE.
TO CHECK THE M SAND FOR DUST CONTENT. DRY THE M-SAND AND SPRAY IT AT CERTAIN HEIGHT LEVEL. IF ANY DUST PRESENCE WILL FLY ON THE AIR. ALSO IF WE TAKE A PINCH ALSO IF WE TAKE A PINCH OF DRIED M SAND ON OUR HAND ANY DUST PRESENCE WILL STICK ON TO OUR PALM OF OUR HAND.



TYPICAL VERTICAL THROUGH PILE

REV	DESCRIPTION	CHKD	DRN	DATE
R1	DRAWING FULLY REVISED AS PER NEW PLAN	S.P.S.I	SIVA THANKA	18.01.2025

SOIL NOTES :- EARTH CABLE ONLY IF THE TOP SOIL IS CLAY STRATA (DEPENDING UPON THE SOIL DETAILS)

THE EXCAVATED SOIL CANNOT BE USED FOR BACKFILLING PURPOSE.
IF THE EXCAVATED SOIL IS USED FOR BACKFILLING PURPOSE, IT WILL DAMP PROOF THE GROUND FLOOR.
HENCE IT IS SUGGESTED TO REMOVE TOP 0.5 METRE OF NATURAL SOIL AND REPLACE WITH SAND FILLING AND HAND CONSOLIDATE FOR GROUND FLOOR FOOTING.

1. AFTER THE EXCAVATION, THE FOUNDATION TRENCHES SHOULD BE COMPLETED PROPERLY BEFORE LAYING THE FOUNDATION.
2. IF THE EXCAVATED SOIL IS USED FOR BACKFILLING IT MUST BE PROPERLY WATERED AND COMPACTED.
3. THE FOUNDATION CONCRETE SHOULD BE PLACED WITHIN 24 HOURS AFTER THE FOUNDATION IS EXCAVATED.

CONCRETE NOTES :-

1. ALL CONCRETE WORKS SHALL BE DONE AS PER IS 456-2000 AND SP 23 (S&T) 1982 HANDBOOK.
2. ALL CONCRETE SHALL BE DESIGNED AS PER IS 456-2000 AND SP 16 (S&T) 1980 HANDBOOK.
3. ALL CONCRETE SHALL BE DESIGNED AS PER IS 456-2000 AND SP 16 (S&T) 1980 HANDBOOK.
4. ALL CONCRETE SHALL BE OF MINIMUM GRADE M25 (1:1.5:3) FOR SITE MIX CONCRETE. AVOID READY MIX CONCRETE FOR PILE.
5. ALL CONCRETE SHALL BE OF MINIMUM GRADE M25 (1:1.5:3) FOR SITE MIX CONCRETE. AVOID READY MIX CONCRETE FOR PILE.
6. CLEAR COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS:
   - FOOTING : 50mm
   - COLUMN : 40mm
   - BEAM : 25mm
   - SLAB : 15mm
   - RETAINING WALL : 25mm
   - PILE : 75mm
7. ALL CONCRETE SHALL BE OF MINIMUM GRADE M25 (1:1.5:3) FOR SITE MIX CONCRETE. AVOID READY MIX CONCRETE FOR PILE.
8. ALL CONCRETE SHALL BE OF MINIMUM GRADE M25 (1:1.5:3) FOR SITE MIX CONCRETE. AVOID READY MIX CONCRETE FOR PILE.
9. ALL CONCRETE SHALL BE OF MINIMUM GRADE M25 (1:1.5:3) FOR SITE MIX CONCRETE. AVOID READY MIX CONCRETE FOR PILE.
10. ALL CONCRETE SHALL BE OF MINIMUM GRADE M25 (1:1.5:3) FOR SITE MIX CONCRETE. AVOID READY MIX CONCRETE FOR PILE.

Dwg No.	11921 S-03
OPTION : III	
DSGD : S.P.S.I	
DRN : MD SULTHANA	

PROPOSED RESIDENTIAL APARTMENT BUILDING FOR KURUNJI HOMES

FOUNDATION DETAILS

DATE : 09.01.2024 SCALE : 1:25, 1:50

S.P.S.Inbarajan, M.E., A.M.I.E.
Structural Consultant

BOURNA
Consulting Engineers

Chennai : 600 086. Ph : 2442 46 65

Door No.90, Kovuzhiyan Street, West Mambalam, Chennai - 600 033.

S.P.S INBARAJAN, M.E. (Struct)
Registered Structural Engineer
Grade-I (SE) in C1/DA
Reg No SE/R/1202/02 dt. 27.02.24
Reg No PC/1/1202/02 dt. 27.02.24
Member of Tamilnadu Construction Engineers Association



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Encumbrance Certificate (EC) Search, Find Your SRO, Temple Property Check, WAQF Property Check, View Patta/Chitta, View FMB, Patta Analyzer, EC Analyzer

Zoning & Land Use Analysis

Land Use Zone Finder, CRZ Zone Check, Aquifer Zone Check, CBA Check, EWS Check, Road Width Check, Proposed Road Widening Check, FSI Calculator

Property Documentation & Workflow Tools

Forms & Templates, Document Generator, Document Translation, Dictionary

Vastu & Property Management Tools

Home Vastu Shastra, Plot Vastu Shastra, Property Management

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We're honored to be part of your real estate journey

3/350/2 Mettukuppam,
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