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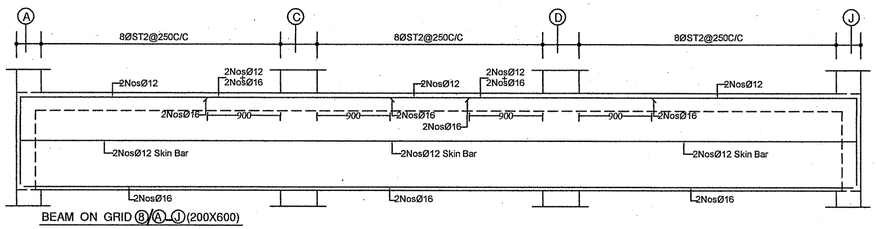
3/350/2 Mettukuppam,
OMR Thoraipakkam,
Chennai, India

hello@verified.realestate
+91 9996 12 9996
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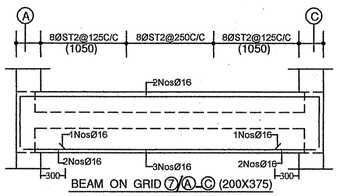
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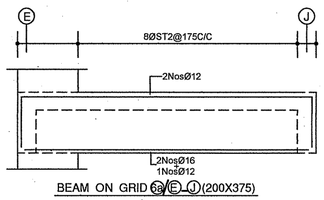
Digitally Verified Record - Powered by Verified RealEstate™



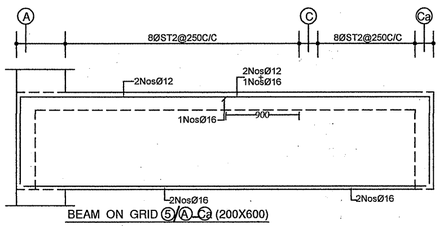
BEAM ON GRID 8 (A)-(J) (200X600)



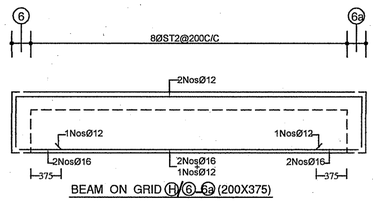
BEAM ON GRID 7 (A)-(C) (200X375)



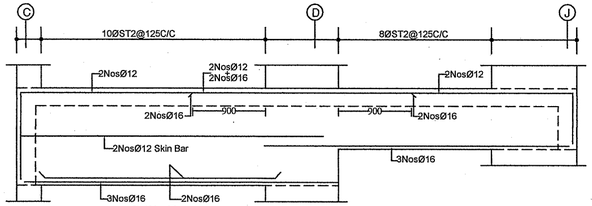
BEAM ON GRID 6a (E)-(J) (200X375)



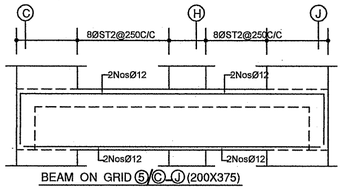
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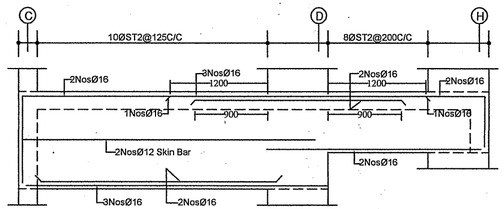
BEAM ON GRID H (6)-(6a) (200X375)



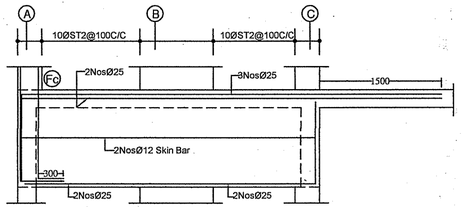
BEAM ON GRID 6 (C)-(J) (200X600)(200X375)



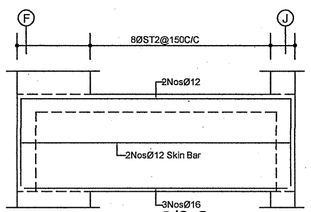
BEAM ON GRID 5 (C)-(J) (200X375)



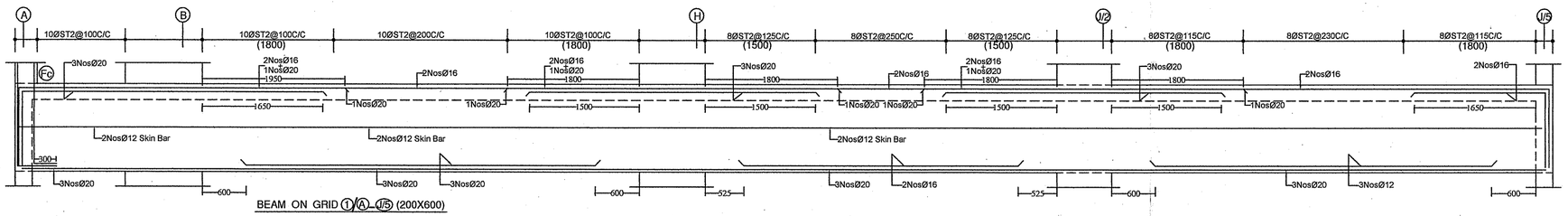
BEAM ON GRID 4 (C)-(H) (200X600)(200X375)



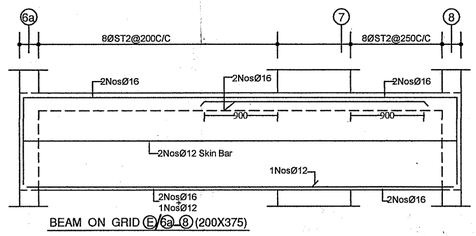
BEAM ON GRID 3 (A)-(C) (200X600)



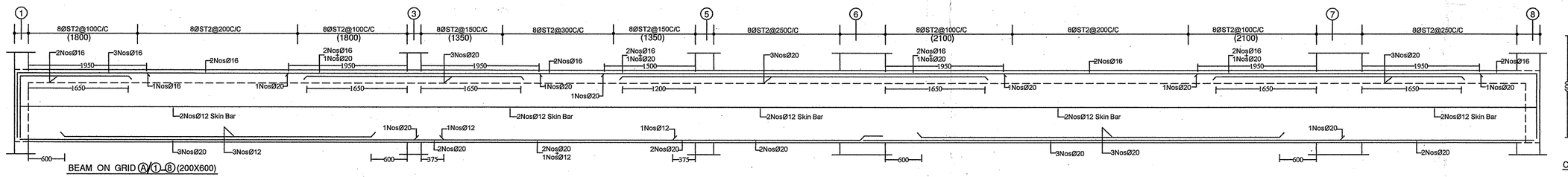
BEAM ON GRID 2 (F)-(J) (200X600)



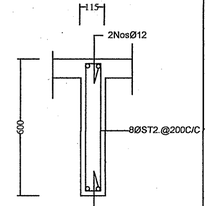
BEAM ON GRID 1 (A)-(I/5) (200X600)



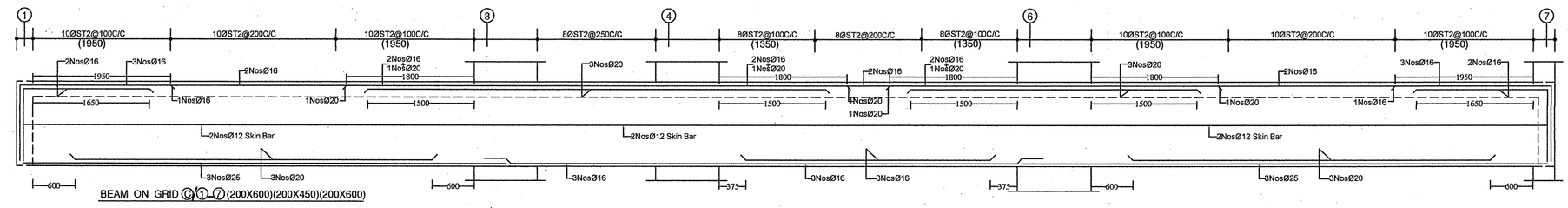
BEAM ON GRID E (6a)-(8) (200X375)



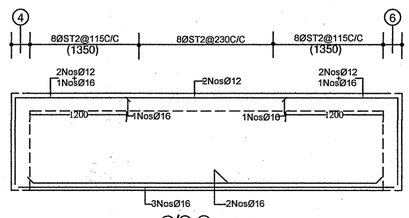
BEAM ON GRID A (1)-(8) (200X600)



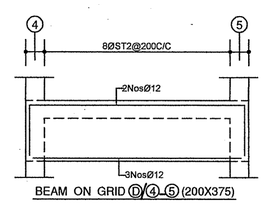
C.S. OF BEAM B6 (100X600)



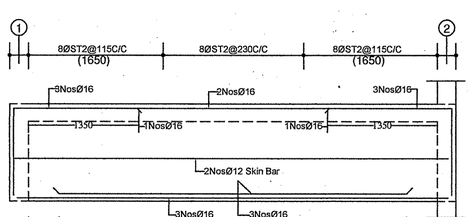
BEAM ON GRID C (1)-(7) (200X600)(200X450)(200X600)



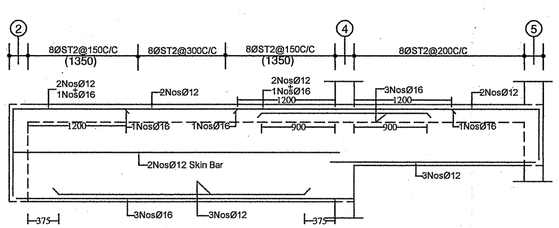
BEAM ON GRID Ca (4)-(6) (200X600)



BEAM ON GRID D (4)-(5) (200X375)

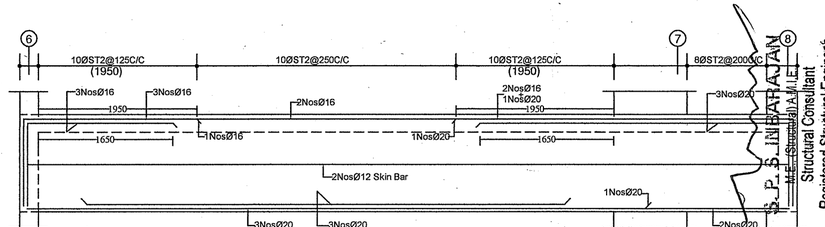


BEAM ON GRID F (1)-(2) (200X600)



BEAM ON GRID H (2)-(5) (200X600)(200X375)

FIFTH FLOOR ROOF BEAM



BEAM ON GRID J (6)-(8) (200X600)

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Registered Structural Engineer
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PROPOSED RESIDENTIAL BUILDING FOR M/S.SREE ROSH PROPERTIES
AT GILL NAGAR,CHOOLAIMEDU, CHENNAI.

FIFTH FLOOR ROOF BEAM DETAILS

Dwg No... 11685 S-10

DSND : S.P.S.I

DRN : SUDHA

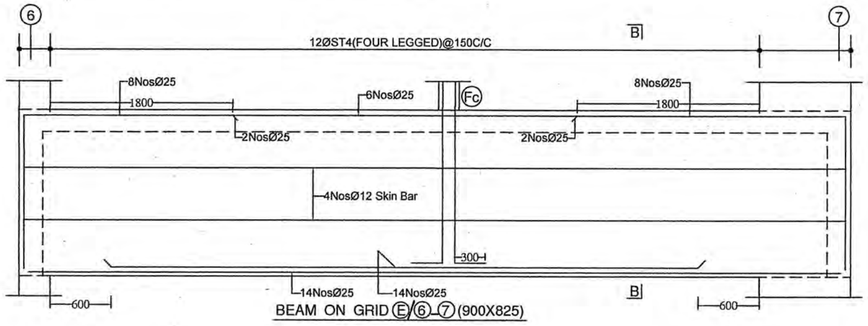
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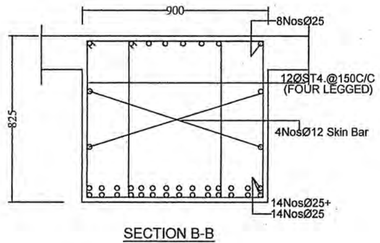
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No:50, Kirupasankari Street, West Mambalam, Chennai - 600 033. Ph : 2485 48 03

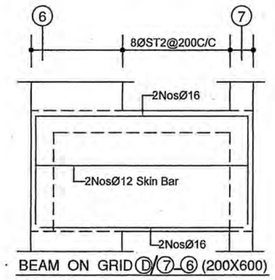
S.P.S.Inbarajan, M.E., A.M.I.E.,
Structural Consultant



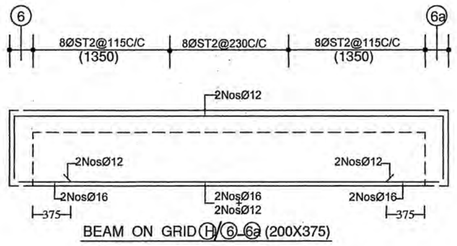
BEAM ON GRID Ⓔ/⑥-⑦ (900X825)



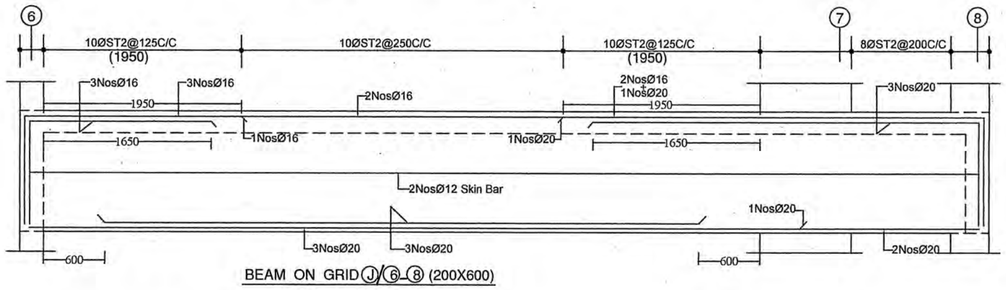
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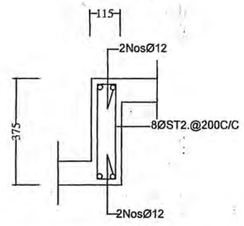
BEAM ON GRID Ⓓ/⑦-⑥ (200X600)



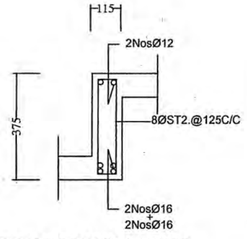
BEAM ON GRID Ⓗ/⑥-6a (200X375)



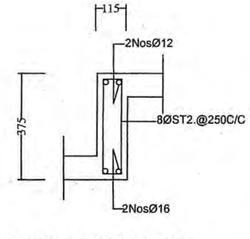
BEAM ON GRID Ⓙ/⑥-⑧ (200X600)



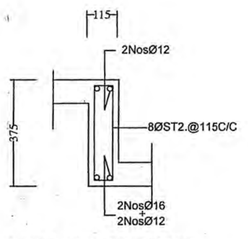
C.S. OF BEAM B2 (100X375)



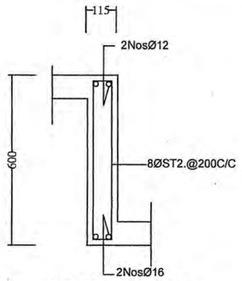
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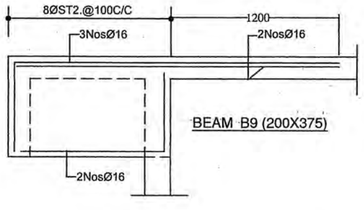
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C.S. OF BEAM B5 (100X375)

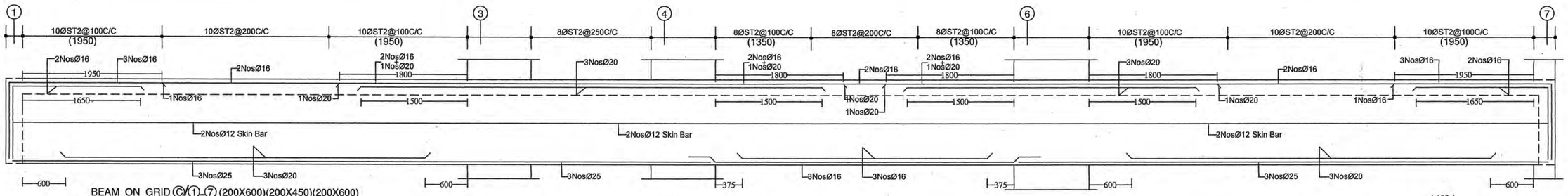


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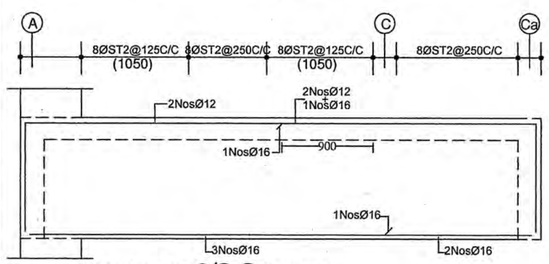


BEAM B9 (200X375)

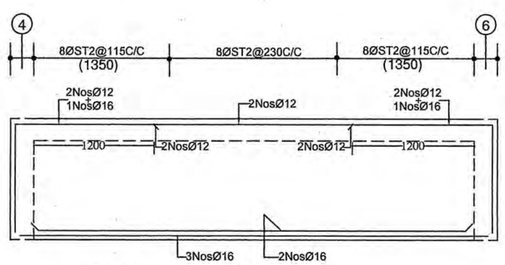
STILT FLOOR ROOF BEAM



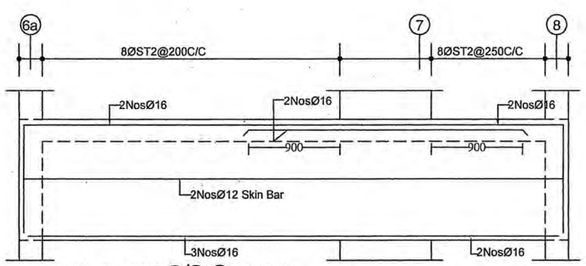
BEAM ON GRID Ⓒ/①-⑦ (200X600)(200X450)(200X600)



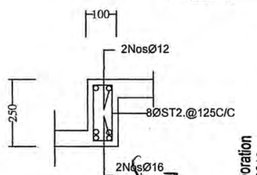
BEAM ON GRID ⑤/Ⓐ-Ca (200X600)



BEAM ON GRID Ⓒ/④-⑥ (200X600)



BEAM ON GRID Ⓔ/6a-⑧ (200X375)



C.S. OF BEAM B10 (100X250)

IMPORTANT NOTES :-

FOR BEAM DETAILS NOT GIVEN FOLLOW STILT FLOOR ROOF BEAM DETAILS

TYPICAL FLOOR ROOF BEAM
FIRST & SECOND FLOOR ROOF BEAM

S. P. S. INBARAJAN
M.E., (Structural) A.M.I.E.
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Registered Structural Engineer
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PROPOSED RESIDENTIAL BUILDING FOR M/S.SREE ROSH PROPERTIES
AT GILL NAGAR,CHOOLAIMEDU, CHENNAI.

ST.F & TYP. (F.F,S.F&T.F)
ROOF BEAM DETAILS

SCALE:1:25 , 1:50

DATE: 23.05.2024

Dwg No...
11685
S -09

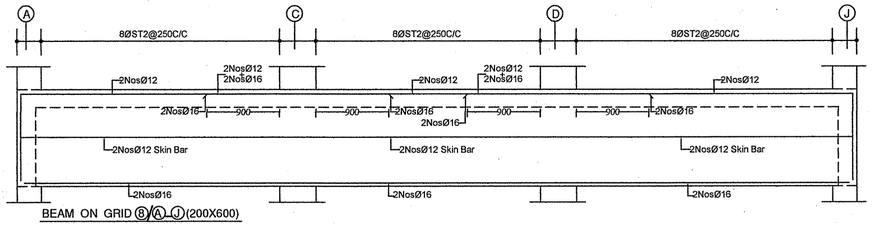
DSND : S.P.S.I

DRN : SUDHA

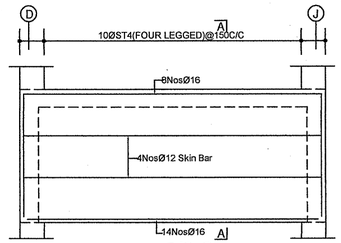
No:50, Kirupasankari Street, West Mambalam, Chennai - 600 033. Ph : 2485 48 03

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

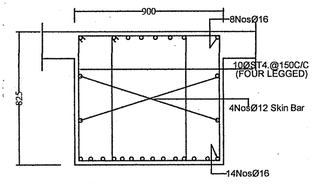
BOURNA
Consultants - Engineers



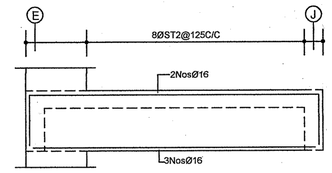
BEAM ON GRID 8/A-J (200X600)



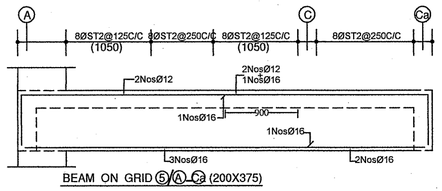
BEAM ON GRID 7/D-J (900X825)



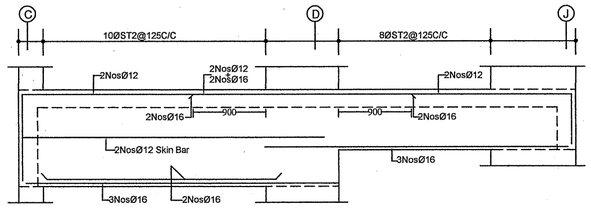
SECTION A-A



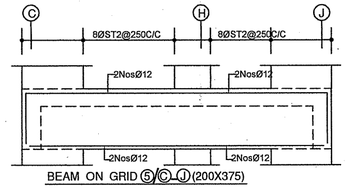
BEAM ON GRID 6a/E-J (200X375)



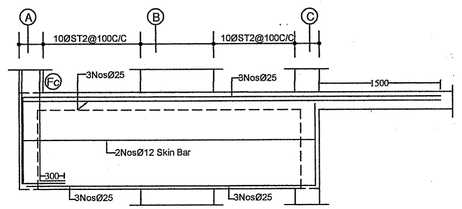
BEAM ON GRID 5/A-Ca (200X375)



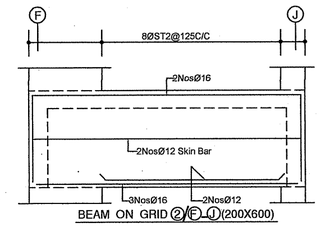
BEAM ON GRID 6/C-J (200X600)(200X375)



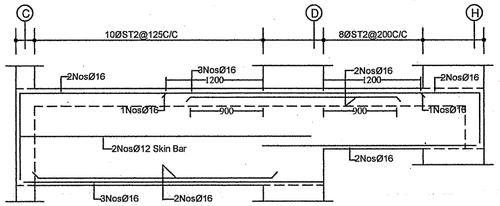
BEAM ON GRID 5/C-J (200X375)



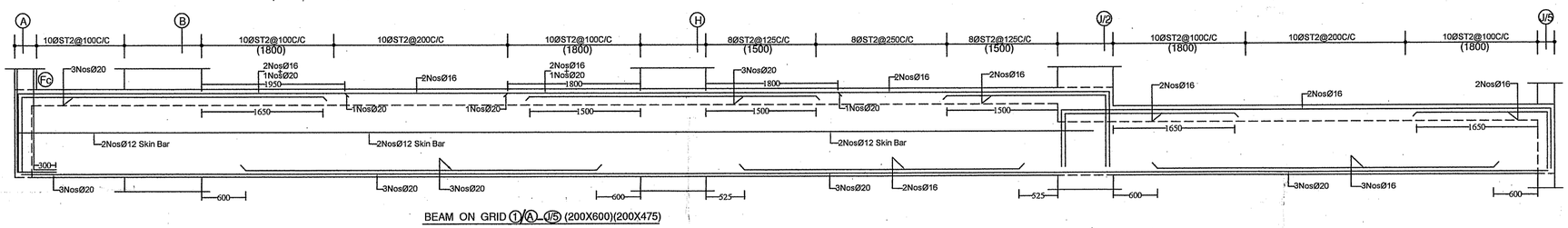
BEAM ON GRID 3/A-C (200X600)



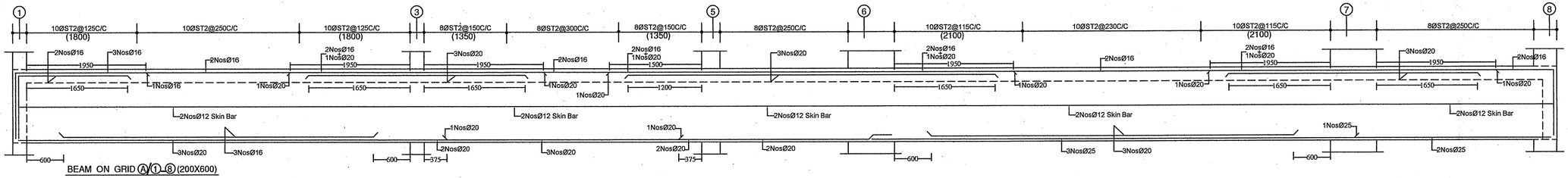
BEAM ON GRID 2/F-J (200X600)



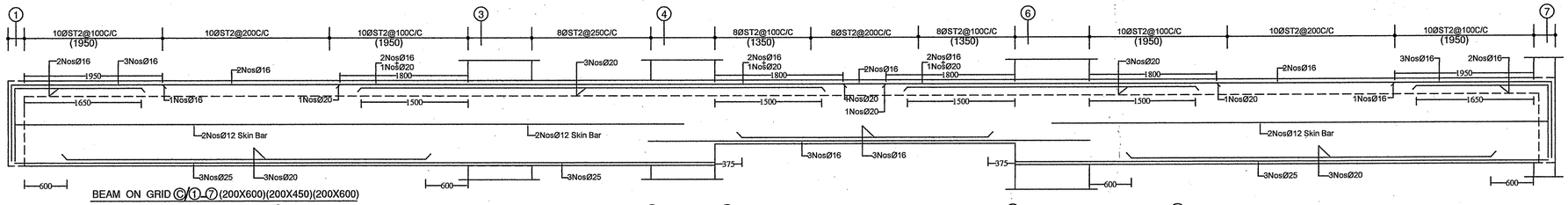
BEAM ON GRID 4/C-H (200X600)(200X375)



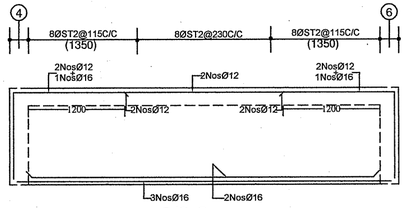
BEAM ON GRID 1/A-J/5 (200X600)(200X475)



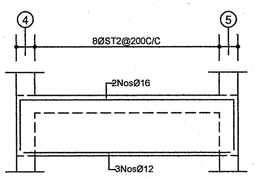
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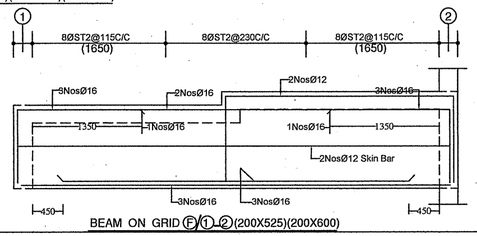
BEAM ON GRID C/1-7 (200X600)(200X450)(200X600)



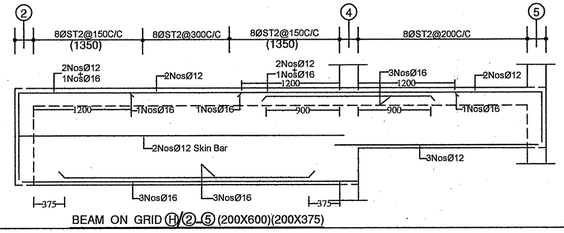
BEAM ON GRID C/4-6 (200X600)



BEAM ON GRID D/4-5 (200X325)



BEAM ON GRID F/1-2 (200X525)(200X600)



BEAM ON GRID H/2-5 (200X600)(200X375)

STILT FLOOR ROOF BEAM

S. P. S. INBARAJAN
M.E., (Structural) A.M.I.E.,
Structural Consultant
Registered Structural Engineer
Grade-I (RSE) in Greater Chennai Corporation
Reg/ No. RSE 100302019 dt. 30.09.2019
Door No.50, Kirupasankari Street,
West Mambalam, Chennai-600 033.

PROPOSED RESIDENTIAL BUILDING FOR M/S.SREE ROSH PROPERTIES
AT GILL NAGAR,CHOOLAIMEDU, CHENNAI.

STILT FLOOR ROOF BEAM DETAILS

Dwg No... 11685 S -08

SCALE:1:25 , 1:50

DATE: 23.05.2024

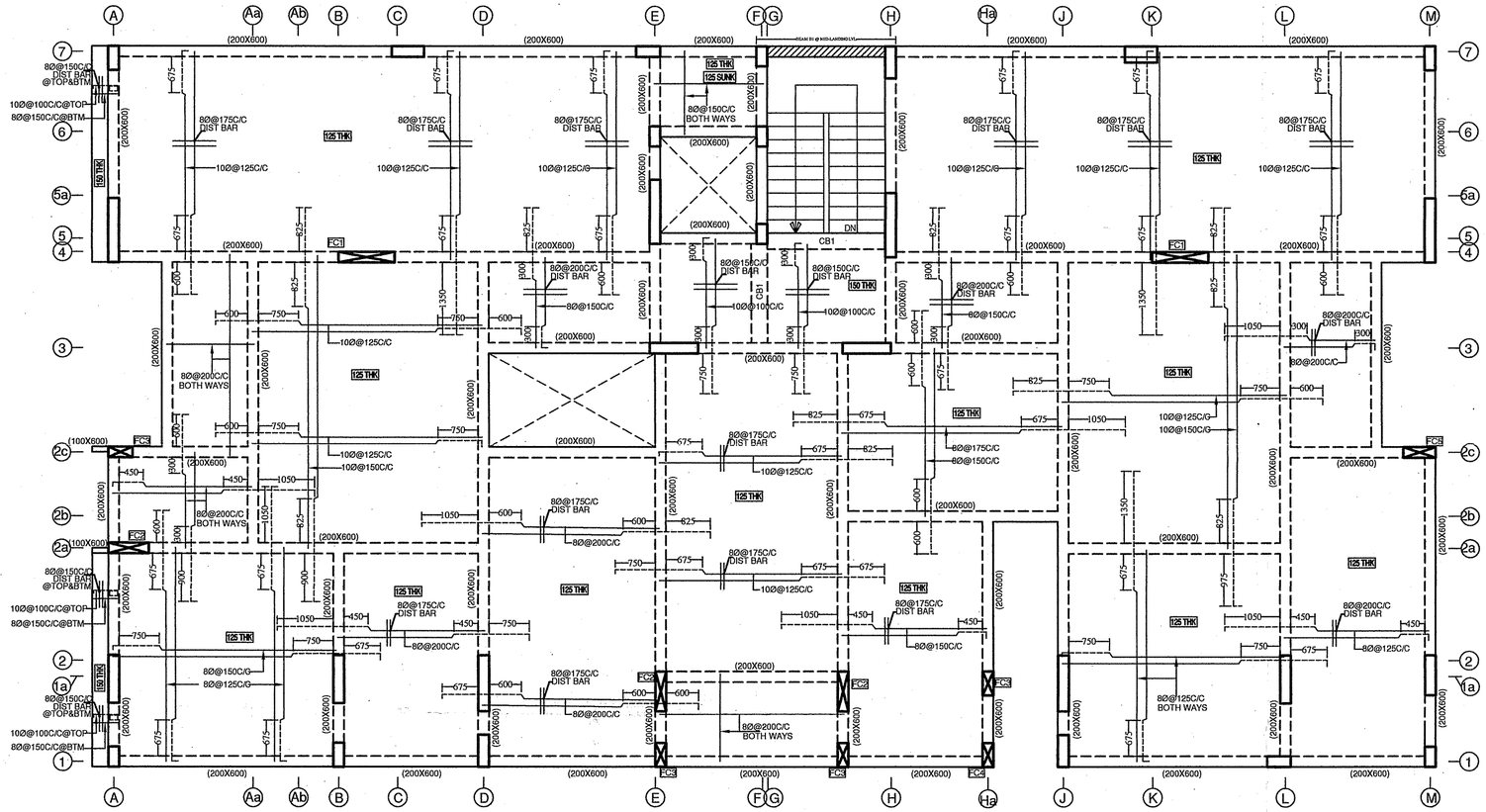
DSNR : S.P.S.I

DRN : SUDHA

No:50, Kirupasankari Street, West Mambalam, Chennai - 600 033. Ph : 2485 46 03

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

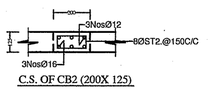
BOURNA
Consultants - Engineers



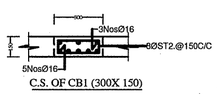
FIFTH FLOOR ROOF SLAB LAYOUT

IMPORTANT NOTES :-

1. ALL SLABS ARE 4"(100mm)THICK. UNLESS NOTED OTHER WISE.
2. PROVIDE 6Ø@6"(150mm)C/C. (OR) 8Ø@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"(175mm) IN THE SLAB CRANKED REINFORCEMENT BAR IN TO THE BEAM. WHICH ARE NOT CONTINUING TO THE ADJACENT SLAB.



C.S. OF CB2 (200X 125)



C.S. OF CB1 (300X 150)

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 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 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.

FLOATING COLUMN DETAILS

ST.F.= STILT FLOOR, 1stF.= FIRST FLOOR, 2nd F.= SECOND FLOOR.
3rd.F.= THIRD FLOOR, 4thF.= FOURTH FLOOR, 5thF.= FIFTH FLOOR.

SL. No.	NAME OF COLUMN	COLUMN SIZE	MAIN REINFORCEMENT	COLUMN TIE	COLUMN SECTION ROD DETAIL
1.	FC1	1st = (200X1050)	20NosØ20	(2Nos Of Set) 8Ø@200C/C	(1st.F) (2nd.F) (3rd.F) (4th.F) (5th.F)
		2nd = (200X1050)	20NosØ20		
		3rd = (200X1050)	20NosØ16		
		4th = (200X1050)	20NosØ12		
		5th = (200X750)	16NosØ16	8Ø@8"C/C	
2.	FC2	1st = (200X750)	14NosØ20	(2Nos Of Set) 8Ø@200C/C	(1st.F) (2nd.F) (3rd.F) (4th.F) (5th.F)
		2nd = (200X750)	14NosØ16		
		3rd = (200X750)	14NosØ12		
		4th = (200X600)	10NosØ12	8Ø@8"C/C	
		5th = (200X600)	10NosØ12		
3.	FC3	1st = (200X450)	8NosØ16	8Ø@8"C/C	(1st.F) (2nd.F) (3rd.F) (4th.F) (5th.F)
		2nd = (200X450)	4NosØ16 + 4NosØ12		
		3rd = (200X450)	8NosØ12		
		4th = (200X450)	8NosØ12		
		5th = (200X450)	8NosØ12		
4.	FC4	1st = (200X450)	8NosØ12	8Ø@8"C/C	(1st.F) (2nd.F) (3rd.F) (4th.F) (5th.F)
		2nd = (200X450)	8NosØ12		
		3rd = (200X450)	8NosØ12		
		4th = (200X450)	8NosØ12		
		5th = (200X450)	8NosØ12		
5.	FC5	1st = (200X600)	10NosØ16	8Ø@8"C/C	(1st.F) (2nd.F) (3rd.F) (4th.F) (5th.F)
		2nd = (200X600)	10NosØ12		
		3rd = (200X450)	8NosØ12		
		4th = (200X450)	8NosØ12		
		5th = (200X450)	8NosØ12		

REV	DESCRIPTION	DRN	CHKD
R3		SENTHIL.R	S.P.S.I
R2	SLAB REVISED	SUDHA	S.P.S.I
R1	SLAB REVISED AS PER ARCHITECT PLAN	SUDHA	S.P.S.I
	DRAWING REVISED	S.P.S.I	

DATE
20.08.24
6.8.2024
7.6.2024

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M.E., (Structural) A.M.I.E.,
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Registered Structural Engineer
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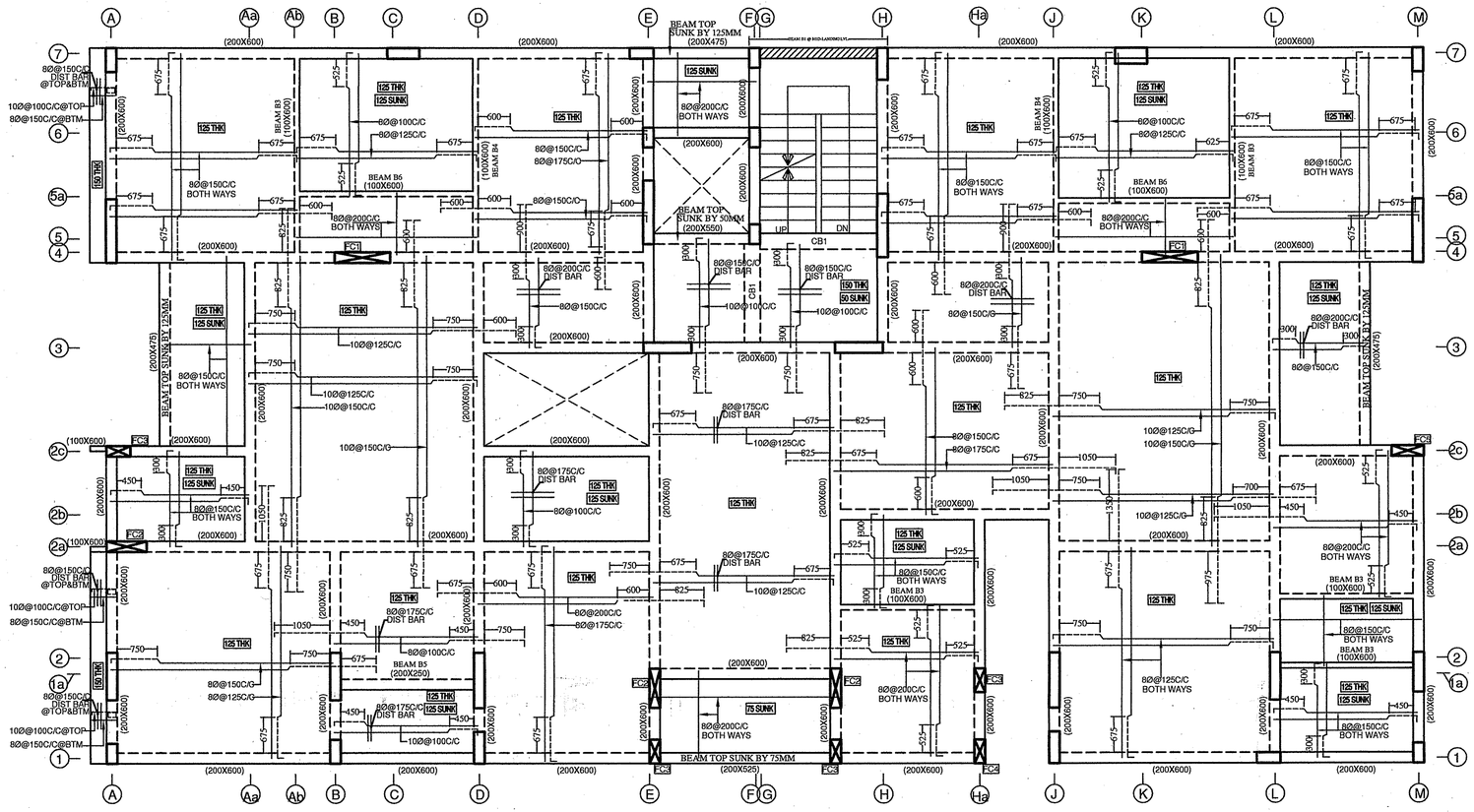
PROPOSED RESIDENTIAL BUILDING FOR M/S.SREE ROSH PROPERTIES
AT GILL NAGAR,CHOOLAIMEDU, CHENNAI.

FIFTH FLOOR ROOF SLAB LAYOUT
DATE: 23/05/2024
SCALE: 1:25 , 1:50

Dwg No... 11685 S -07

DSND : S.P.S.I
DRN : SUDHA

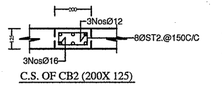
No:50, Kirupasankari Street, West Mambalam, Chennai - 600 033. PH : 2485 46 03
S.P.S.Inbarajan, M.E., A.M.I.E., Structural Consultant
BOURNA Consultants - Engineers



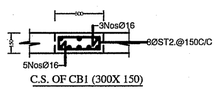
TYPICAL FLOOR ROOF SLAB LAYOUT
(FIRST,SECOND,THIRD&FOURTH FLOOR)

IMPORTANT NOTES :-

1. ALL SLABS ARE 4"(100mm)THICK. UNLESS NOTED OTHER WISE.
2. PROVIDE 6Ø@6"(150mm)C/C. (OR) 8Ø@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"(175mm) IN THE SLAB CRANKED REINFORCEMENT BAR IN TO THE BEAM. WHICH ARE NOT CONTINUING TO THE ADJACENT SLAB.



C.S. OF CB2 (200X 125)



C.S. OF CB1 (300X 150)

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

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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.
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FLOATING COLUMN DETAILS

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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.	FC1	1st =	(200X1050)	20NosØ20	(2Nos Of Set) 8Ø@200C/C	(1st.F) (2nd.F) (3rd.F) (4th.F) (5th.F)
		2nd =	(200X1050)	20NosØ20		
		3rd =	(200X1050)	20NosØ16		
		4th =	(200X1050)	20NosØ12		
		5th =	(200X750)	16NosØ16	8Ø@8"C/C	
2.	FC2	1st =	(200X750)	14NosØ20	(2Nos Of Set) 8Ø@200C/C	(1st.F) (2nd.F) (3rd.F) (4th.F) (5th.F)
		2nd =	(200X750)	14NosØ16		
		3rd =	(200X750)	14NosØ12		
		4th =	(200X600)	10NosØ12	8Ø@8"C/C	
		5th =	(200X600)	10NosØ12		
3.	FC3	1st =	(200X450)	8NosØ16	8Ø@8"C/C	(1st.F) (2nd.F) (3rd.F) (4th.F) (5th.F)
		2nd =	(200X450)	4NosØ16 + 4NosØ12		
		3rd =	(200X450)	8NosØ12		
		4th =	(200X450)	8NosØ12		
		5th =	(200X450)	8NosØ12		
4.	FC4	1st =	(200X450)	8NosØ12	8Ø@8"C/C	(1st.F) (2nd.F) (3rd.F) (4th.F) (5th.F)
		2nd =	(200X450)	8NosØ12		
		3rd =	(200X450)	8NosØ12		
		4th =	(200X450)	8NosØ12		
		5th =	(200X450)	8NosØ12		
5.	FC5	1st =	(200X600)	10NosØ16	8Ø@8"C/C	(1st.F) (2nd.F) (3rd.F) (4th.F) (5th.F)
		2nd =	(200X600)	10NosØ12		
		3rd =	(200X450)	8NosØ12		
		4th =	(200X450)	8NosØ12		
		5th =	(200X450)	8NosØ12		

REV	DESCRIPTION	CHKD	DRN	DATE
R3	DRAWING REVISED	S.P.S.I.	SENTHILR	20.08.2
R2	SLAB REVISED	S.P.S.I.	SUDHA	6.8.2024
R1	SLAB REVISED AS PER ARCHITECT PLAN	S.P.S.I.	SUDHA	7.8.2024

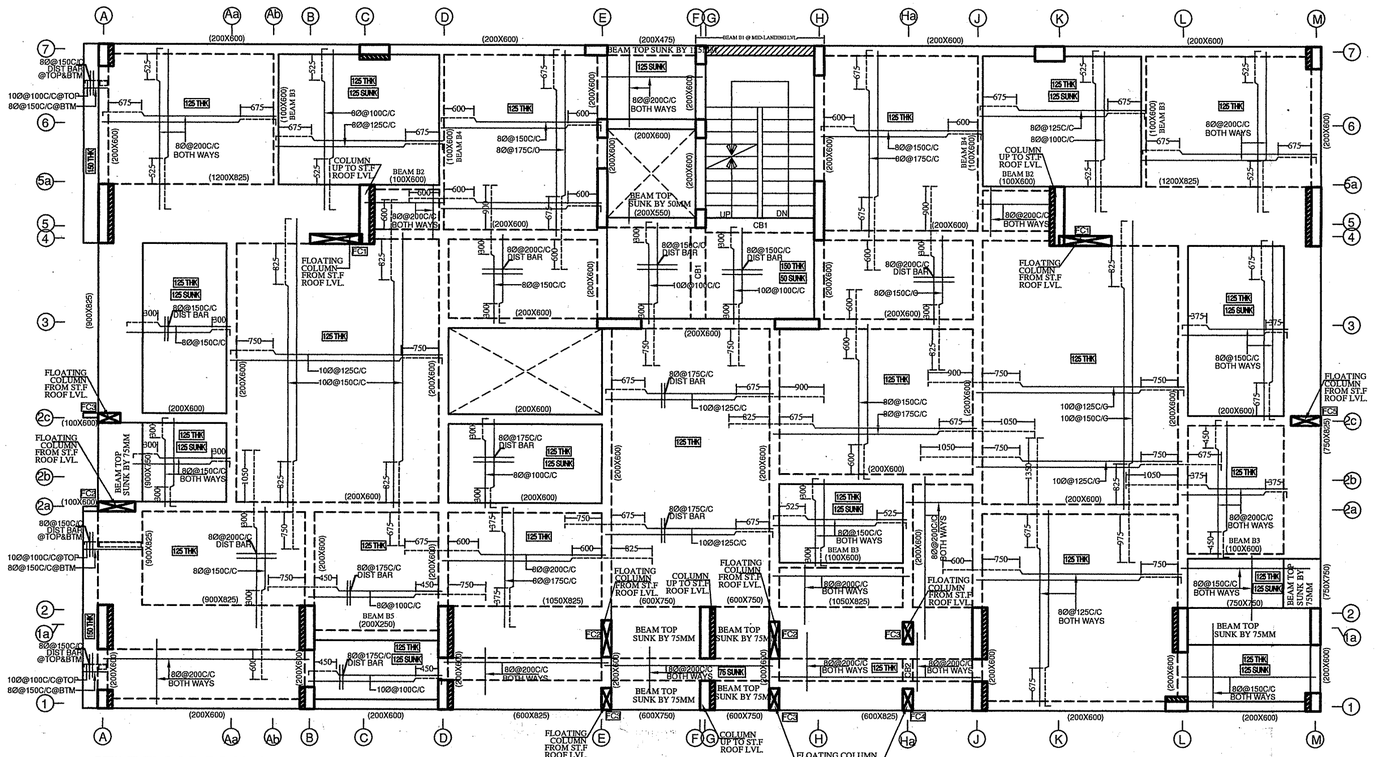
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PROPOSED RESIDENTIAL BUILDING FOR M/S.SREE ROSH PROPERTIES
AT GILL NAGAR,CHOOLAIMEDU, CHENNAI.

TYPICAL FLOOR ROOF SLAB LAYOUT
DATE: 23/05/2024
SCALE:1=25 , 150
Dwg No... 11685 S -06
DSND : S.P.S.I
DRN : SUDHA

No.50, Kirupasankari Street, West Mambalam, Chennai - 600 033. Ph : 2485 46 03
S.P.S.Inbarajan, M.E., A.M.I.E., Structural Consultant

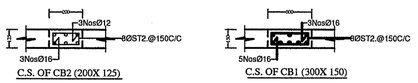
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STILT FLOOR ROOF SLAB LAYOUT

IMPORTANT NOTES :-

1. ALL SLABS ARE 4"(100mm)THICK, UNLESS NOTED OTHER WISE.
2. PROVIDE 6Ø@6"(150mm)C/C. (OR) 8Ø@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"(175mm) IN THE SLAB CRANKED REINFORCEMENT BAR IN TO THE BEAM. WHICH ARE NOT CONTINUING TO THE ADJACENT SLAB.



FLOATING COLUMN DETAILS

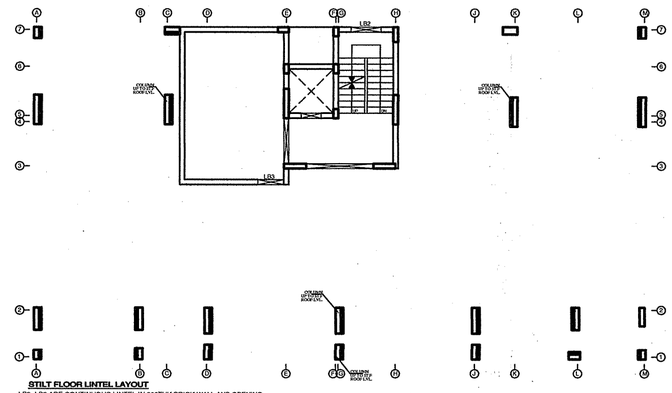
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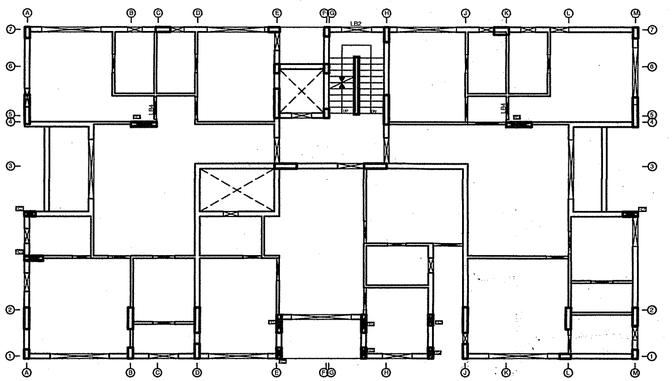
SL. No.	NAME OF COLUMN		COLUMN SIZE	MAIN REINFORCEMENT	COLUMN TIE	COLUMN SECTION ROD DETAIL
1.	FC1	1st =	(200X1050)	20NosØ20	(2Nos Of Set) 8Ø@200C/C	(1st.F) (2nd.F) (3rd.F) (4th.F) (5th.F)
		2nd =	(200X1050)	20NosØ20		
		3rd =	(200X1050)	20NosØ16		
		4th =	(200X1050)	20NosØ12		
		5th =	(200X750)	16NosØ16	8Ø@8"C/C	
2.	FC2	1st =	(200X750)	14NosØ20	(2Nos Of Set) 8Ø@200C/C	(1st.F) (2nd.F) (3rd.F) (4th.F) (5th.F)
		2nd =	(200X750)	14NosØ16		
		3rd =	(200X750)	14NosØ12		
		4th =	(200X600)	10NosØ12	8Ø@8"C/C	
		5th =	(200X600)	10NosØ12		

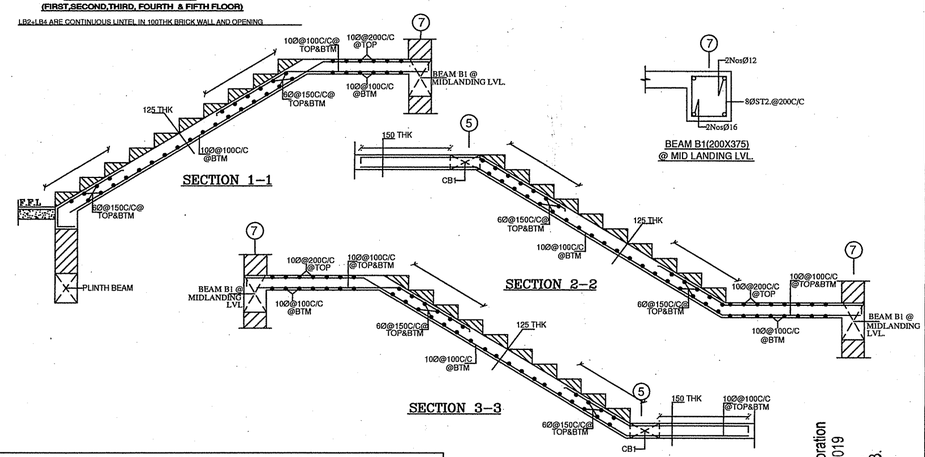
FLOATING COLUMN DETAILS

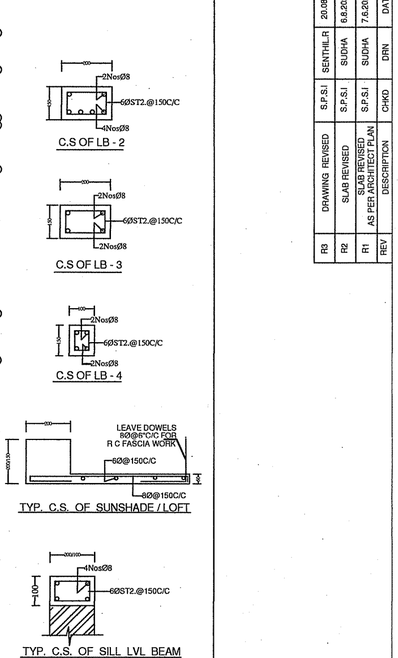
ST.F.= STILT FLOOR. 1st.F.= FIRST FLOOR. 2nd.F.= SECOND FLOOR. 3rd.F.=THIRD FLOOR. 4th.F.=FOURTH FLOOR. 5th.F.= FIFTH FLOOR.

SL. No.	NAME OF COLUMN		COLUMN SIZE	MAIN REINFORCEMENT	COLUMN TIE	COLUMN SECTION ROD DETAIL
3.	FC3	1st =	(200X450)	8NosØ16	8Ø@8"C/C	(1st.F) (2nd.F) (3rd.F) (4th.F) (5th.F)
		2nd =	(200X450)	4NosØ16 4NosØ12		
		3rd =	(200X450)	8NosØ12		
		4th =	(200X450)	8NosØ12		
		5th =	(200X450)	8NosØ12		
4.	FC4	1st =	(200X450)	8NosØ12	8Ø@8"C/C	(1st.F) (2nd.F) (3rd.F) (4th.F) (5th.F)
		2nd =	(200X450)	8NosØ12		
		3rd =	(200X450)	8NosØ12		
		4th =	(200X450)	8NosØ12		
		5th =	(200X450)	8NosØ12		
5.	FC5	1st =	(200X600)	10NosØ16	8Ø@8"C/C	(1st.F) (2nd.F) (3rd.F) (4th.F) (5th.F)
		2nd =	(200X600)	10NosØ12		
		3rd =	(200X450)	8NosØ12		
		4th =	(200X450)	8NosØ12		
		5th =	(200X450)	8NosØ12		









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 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 FOR M-SAND :-

SAND SHALL BE REPLACED BY M-SAND FULLY OR PARTIALLY IN ANY PROPORTION FOR PLAIN CEMENT CONCRETE, REINFORCEMENT CEMENT CONCRETE AND PLASTERING. FOR COLUMN CONCRETE BETTER TO USE SAND ALONE FOR CONCRETING. 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 THROW IT IN AIR AT CERTAIN HEIGHT LEVEL, IF ANY DUST PRESENCE WILL FLY ON THE AIR. SO TAKE A PINCH ALSO IF WE TAKE A PINCH OF DRIED M-SAND ON OUR PALM OF HAND. DUST PRESENCE WILL STICK ON TO OUR PALM OF OUR HAND.

S. P. S. INBARAJAN
M.E., (Structural Engineering)
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Regi/ No. RSE/100302/2019 Upto 30.09.2019
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REV	DESCRIPTION	DRN	CHKD	DATE
R3	DRAWING REVISED	S.P.S.I	SENTHILR	20.08.24
R2	SLAB REVISED	S.P.S.I	SUDHA	6.8.2024
R1	SLAB REVISED AS PER ARCHITECT PLAN	S.P.S.I	SUDHA	7.6.2024

PROPOSED RESIDENTIAL BUILDING FOR M/S.SREE ROSH PROPERTIES AT GILL NAGAR,CHOOLAIMEDU, CHENNAI.

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

SCALE:1:25 , 1:50

DATE: 23/05/2024

Dwg No... 11685 S -05

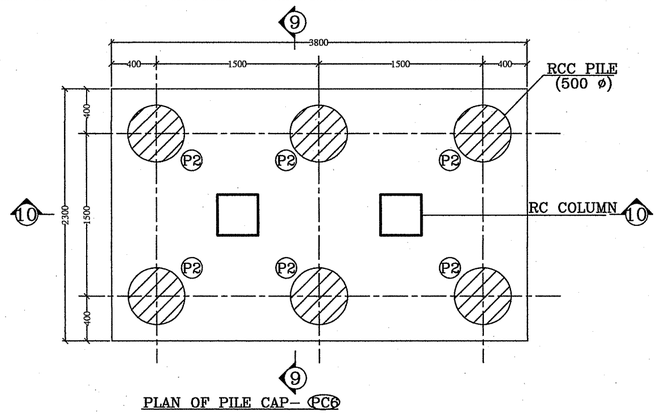
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DRN : SUDHA

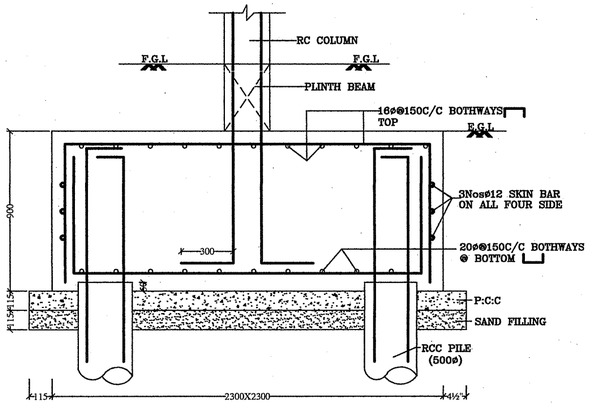
S.P.S.Inbarajan, M.E., A.M.I.E.,
Structural Consultant

No:50, Kirupasankari Street, West Mambalam, Chennai - 600 033. Ph : 2484 46 03

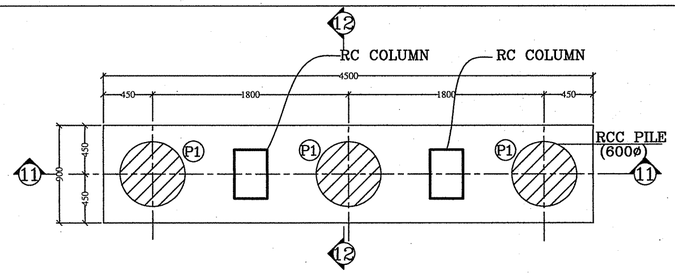
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Consultants - Engineers



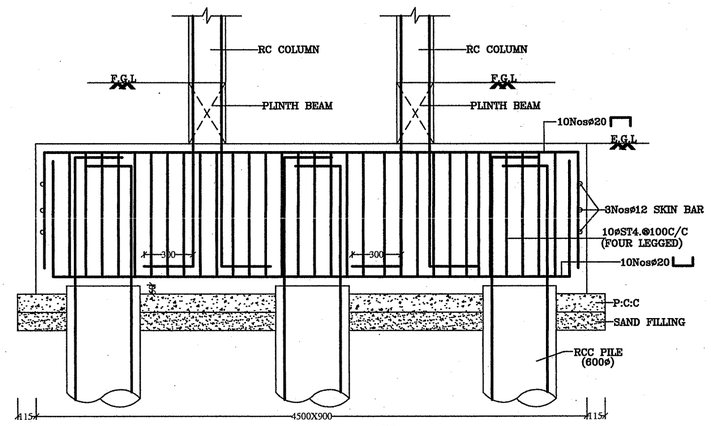
PLAN OF PILE CAP– (PC6)



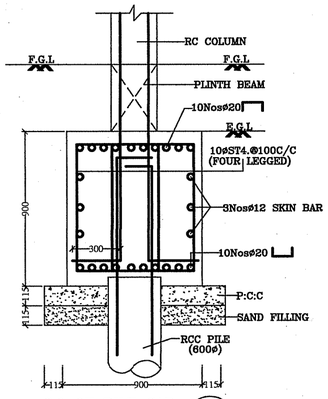
L.S OF PILE CAP– (PC6)
SECTION 9–1



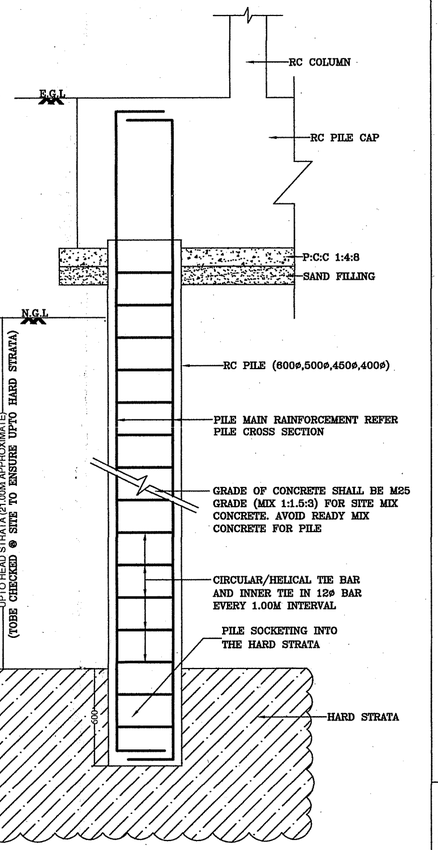
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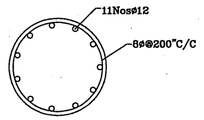
L.S OF PILE CAP– (PC7)
SECTION 11–11



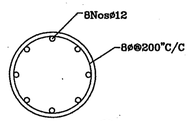
C.S OF PILE CAP– (PC1)
SECTION 12–12



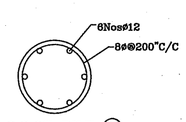
TYPICAL VERTICAL THROUGH PILE



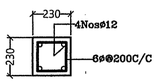
C.S.OF PILE (P1)
(600ø)



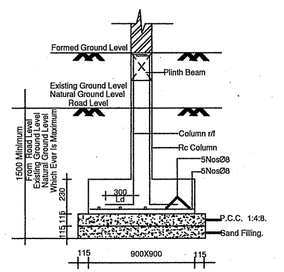
C.S.OF PILE (P2)
(500ø)



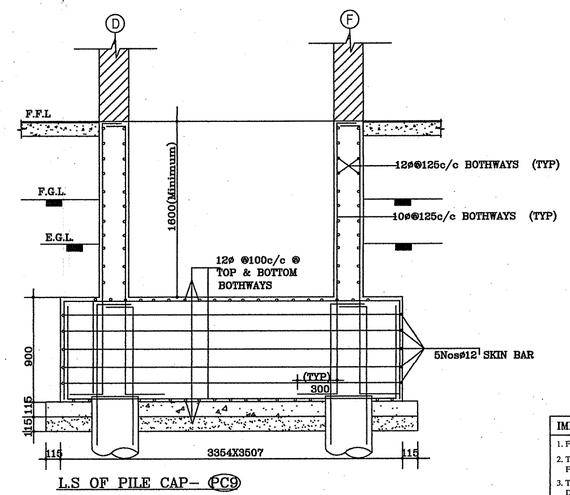
C.S.OF PILE (P3)
(450ø)



C.S. OF STUB COLUMN (SC)



TYP. C. S. OF R . C STUB COLUMN FOOTING (SC)
CONCENTRIC



L.S OF PILE CAP– (PC9)

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 LESSTHEN 15.0 METER) AND AN EXTRA PENETRATION FOR MINIMUM OF 600mm (PILE SOCKETING) BEYOND ABOVE LEVEL IN THE HARD STRATA.
APPROXIMATELY LENGTH OF PILE SHALL BE 21.00M. 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 600ø 113 TONNES,500ø 78 TONNES,450ø 63 TONNES,400ø 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). CHOPPING 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 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 :–

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 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.
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5. THE CONCRETE TOP SURFACE SHOULD BE SPRAYED WITH WATER TO START CURING AFTER 30 MINUTES TO 150 MINUTES FROM THE TIME OF CONCRETE LAYING.
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PROPOSED RESIDENTIAL BUILDING FOR M/S.SREE ROSH PROPERTIES
AT GILL NAGAR,CHOOLAIMEDU, CHENNAI.

FOUNDATION DETAIL-III.

Dwg No... 11685 S -04

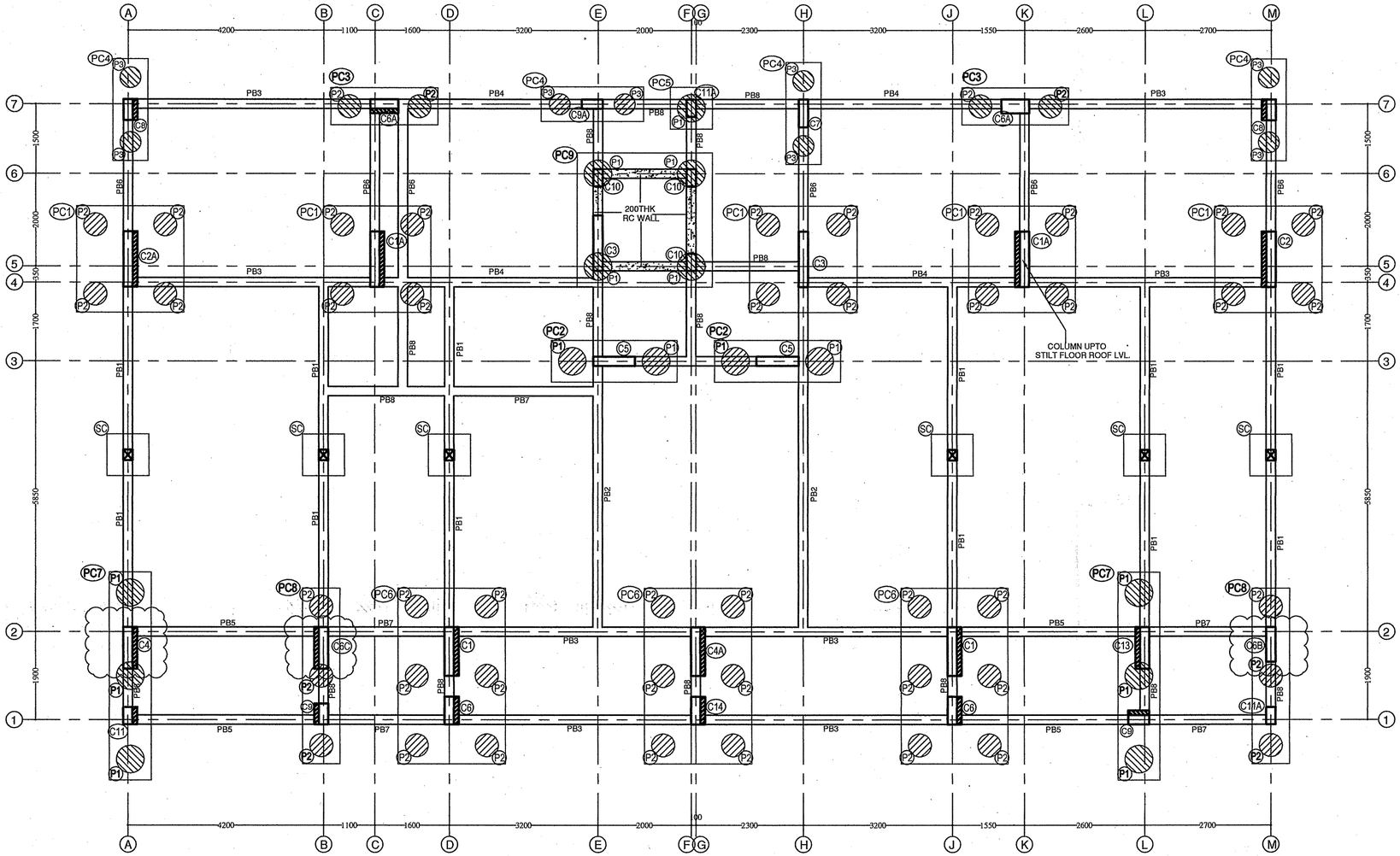
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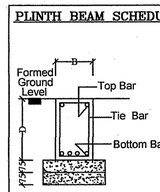
DRN : SENTHILR

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

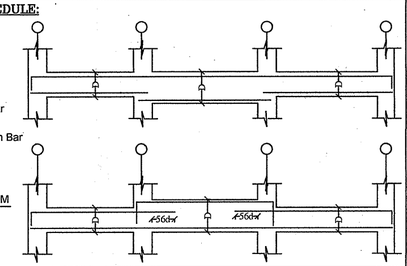


FOUNDATION LAYOUT

PLINTH BEAM SCHEDULE:



TYP C.S. OF PLINTH BEAM



SL. No.	Name Of Plinth Beam	Plinth Beam Size (BXD)	Plinth Beam Top Bar	Plinth Beam Bottom Bar	Plinth Beam Tie	
1.	PB1	(200X450)	3NosØ16	3NosØ16+ 2NosØ16	10ØST2.@175C/C	Formed Ground Level
2.	PB2	(200X450)	3NosØ16	3NosØ16+ 2NosØ16	8ØST2.@115C/C(End 1/3rd Span) 8ØST2.@230C/C(Mid 1/3rd Span) 8ØST2.@115C/C(End 1/3rd Span)	
3.	PB3	(200X450)	3NosØ16	3NosØ16+ 3NosØ12	8ØST2.@125C/C(End 1/3rd Span) 8ØST2.@250C/C(Mid 1/3rd Span) 8ØST2.@125C/C(End 1/3rd Span)	
4.	PB4	(200X450)	2NosØ16	3NosØ16+ 2NosØ12	8ØST2.@200C/C	
5.	PB5	(200X450)	2NosØ16	3NosØ16	8ØST2.@200C/C	
6.	PB6	(200X450)	2NosØ16	2NosØ16+ 1NosØ12	8ØST2.@200C/C	
7.	PB7	(200X450)	2NosØ16	2NosØ16	8ØST2.@250C/C	
8.	PB8	(200X450)	2NosØ12	3NosØ12	8ØST2.@250C/C	

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 3NosØ12@TOP AND 3NosØ12@BTM AND 8ØST2.@8(200mm)C/C STIRRUPS.

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REV	DESCRIPTION	CHKD	DRN	DATE
R3	DRAWING REVISED	S.P.S.I	SENTHILR	20.09.24
R2	DRAWING REVISED	S.P.S.I	SENTHILR	05.09.24
R1	DRAWING REVISED AS PER CLIENT REQUEST	S.P.S.I	SENTHILR	28.08.24

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 - 45 CMS OF NATURAL SOIL AND REFILL WITH GOOD SOIL / 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 PREPARATION PART AND AFTER SPREAD BRICK-BATS / JALLY BRICKS AS A FOUNDATION PART AS PER DETAIL. THE FOUNDATIONS CAN BE SUBSEQUENTLY BE PLACED OVER THIS PREPARED SURFACE.

CONCRETE NOTES:-

1. CONCRETE SHALL BE OF GRADE M20 (MIX 1:1.5:3) FOR CONVENTIONAL MIXTURE MACHINE CONCRETE AND CONCRETE SHALL BE OF GRADE M25 FOR READY MIX CONCRETE EXCEPT FOR PILE, COLUMN CONCRETING, FOR COLUMN CONCRETE NO. FOR COLUMN CONCRETE
2. 60 BARS ARE MILDSTEEL REMAINING ALL OTHERS BARS ARE FORSTEEL CONFORMING TO GRADE Fe500.
3. CLEAR COVER TO MAIN BAR SHALL BE AS FOLLOWS:- COLUMN 40 mm(40mm), BEAM 25 mm(25mm), RC WALL 1"(25mm), ROOF SLAB 3/5"(15mm), RAFT SLAB 3" (75mm), PILE CAP 2"(50mm) & PILE 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 INTENDED FOR STILT & FIFTH FLOOR ONLY

PROPOSED RESIDENTIAL BUILDING FOR M/S.SREE ROSH PROPERTIES
AT GILL NAGAR,CHOOLAIMEDU, CHENNAI.

FOUNDATION LAYOUT.

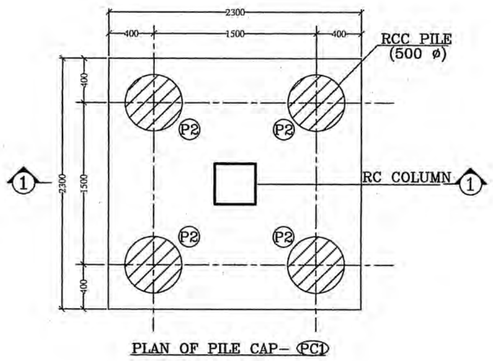
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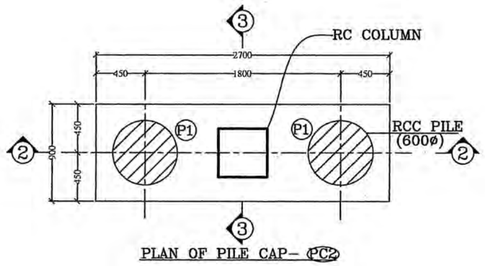
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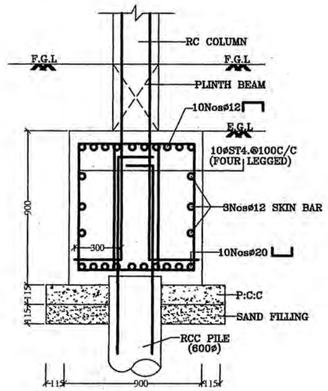
No:50, Kirupasankari Street, West Mambalam, Chennai - 600 033. Ph : 24854648 03
S.P.S.Inbarajan, M.E., A.M.I.E., Structural Consultant
BOURNA Consultants - Engineers



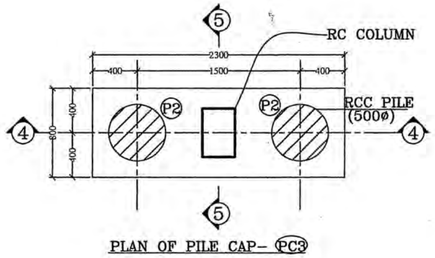
PLAN OF PILE CAP– PC1



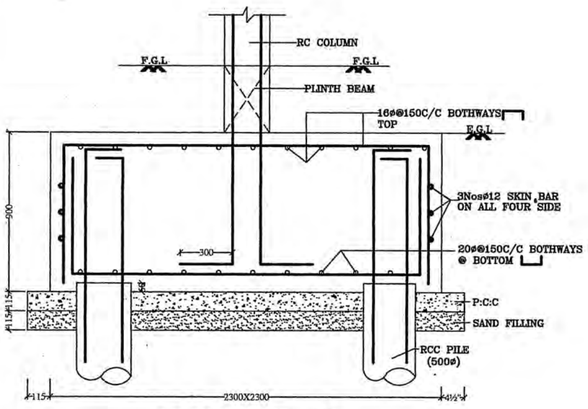
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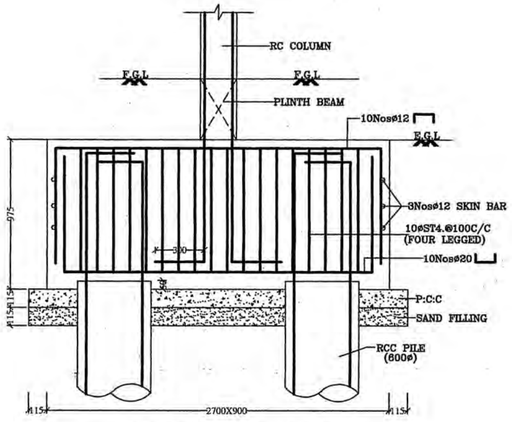
C.S OF PILE CAP– PC2
SECTION 3–3



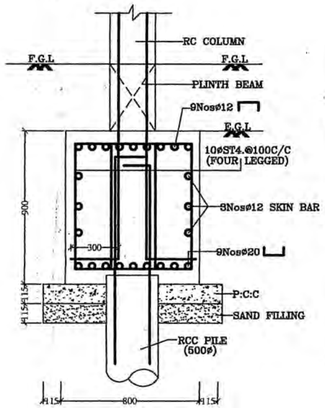
PLAN OF PILE CAP– PC3



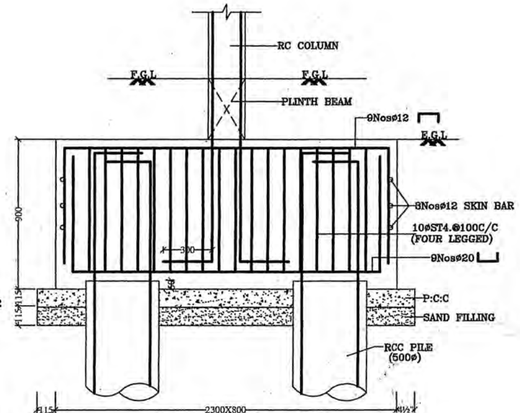
L.S OF PILE CAP– PC1
SECTION 1–1



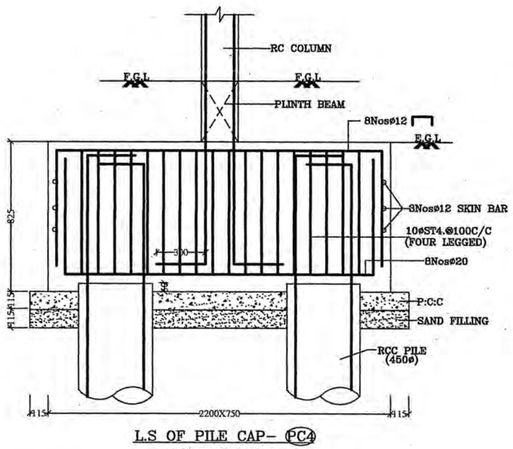
L.S OF PILE CAP– PC2
SECTION 2–2



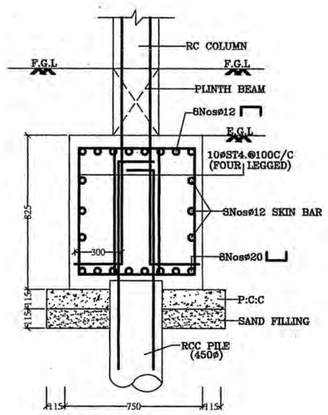
C.S OF PILE CAP– PC3
SECTION 5–5



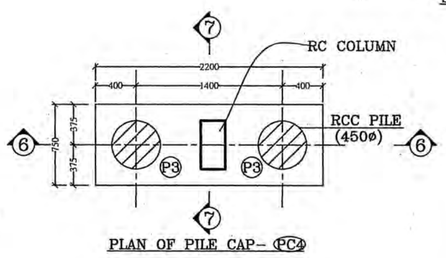
L.S OF PILE CAP– PC3
SECTION 4–4



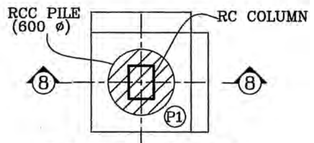
L.S OF PILE CAP– PC4
SECTION 6–6



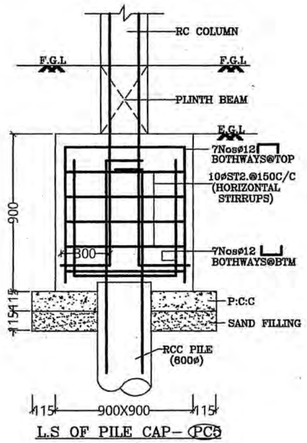
C.S OF PILE CAP– PC4
SECTION 7–7



PLAN OF PILE CAP– PC4



PLAN OF PILE CAP– PC5



L.S OF PILE CAP– PC5
SECTION 8–8

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 PRESSENCE 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 (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, 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.

IMPORTANT NOTE :–

1. CONCRETING AT SITE SHALL BE STARTED ONLY AFTER VERIFYING ALL FABRICATION OF REINFORCEMENT DONE FOR VARIOUS MEMBERS, (Via) 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 IF NECESSARY CONCRETE SHOULD BE FOLLOWED AS PER DIRECTIONS GIVEN BY QUALIFIED CIVIL ENGINEER / SITE IN-CHARGE ONLY.

S.P. INBARAJAN, M.E., A.M.I.E.,
Structural Consultant
Grade-I (RSE) In Greater Chennai Corporation
Reg/No. RSE 100301/2019 dt. 30.09.2019
Door No.50, Kirupasankari Street,
West Mambalam, Chennai-600 033.

PROPOSED RESIDENTIAL BUILDING FOR M/S.SREE ROSH PROPERTIES
AT GILL NAGAR,CHOOLAIMEDU, CHENNAI.

FOUNDATION DETAIL-II.

Dwg No... 11685 S-03

DATE: 21.05.2024 | SCALE: 1:25 , 1:50

DSND : S.P.S.I

DRN : SENTHIL.R

S.P.S.Inbarajan, M.E., A.M.I.E.,
Structural Consultant
No:50, Kirupasankari Street, West Mambalam, Chennai - 600 033. Ph : 2485 46 03

BOURNA
Consultants - Engineers

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. = (300X1050)	24NosØ20+ 10NosØ12	(4Nos Of Set) 8Ø@200C/C	10NosØ12
		1st.F. = (200X750)	16NosØ20	(3Nos Of Set) 8Ø@200C/C	
		2nd.F. = (200X750)	4NosØ20+ 12NosØ16		
		3rd.F. = (200X750)	16NosØ16		
		4th.F. = (200X750)	16NosØ12		
		5th.F. = (200X600)	10NosØ12	8Ø@200C/C	
2.	C2	ST.F. = (300X1200)	22NosØ20+ 12NosØ12	(4Nos Of Set) 8Ø@200C/C	12NosØ12
		1st.F. = (200X900)	18NosØ20	(3Nos Of Set) 8Ø@200C/C	
		2nd.F. = (200X900)	4NosØ20+ 14NosØ16		
		3rd.F. = (200X900)	4NosØ20+ 14NosØ12		
		4th.F. = (200X900)	18NosØ12		
		5th.F. = (200X600)	12NosØ12	8Ø@200C/C	
3.	C3	ST.F. = (200X1200)	32NosØ16	(4Nos Of Set) 8Ø@200C/C	
		1st.F. = (200X1200)	16NosØ16+ 16NosØ12		
		2nd.F. = (200X1200)	32NosØ12		
		3rd.F. = (200X900)	24NosØ12	(3Nos Of Set) 8Ø@200C/C	
		4th.F. = (200X750)	18NosØ12		
		5th.F. = (200X600)	10NosØ12	8Ø@200C/C	
4.	C4	ST.F. = (300X900)	24NosØ16+ 8NosØ12	(4Nos Of Set) 8Ø@200C/C	8NosØ12
		1st.F. = (200X600)	10NosØ16	(3Nos Of Set) 8Ø@200C/C	
		2nd.F. = (200X600)	10NosØ12		
		3rd.F. = (200X450)	8NosØ12		
		4th.F. = (200X450)	8NosØ12		
		5th.F. = (200X450)	8NosØ12	8Ø@200C/C	
5.	C5	ST.F. = (200X900)	20NosØ20	(3Nos Of Set) 8Ø@200C/C	
		1st.F. = (200X900)	10NosØ20+ 10NosØ16		
		2nd.F. = (200X900)	20NosØ16		
		3rd.F. = (200X900)	20NosØ12		
		4th.F. = (200X750)	16NosØ12		
		5th.F. = (200X600)	10NosØ12	8Ø@200C/C	
6.	C6	ST.F. = (300X600)	12NosØ16+ 6NosØ12	(3Nos Of Set) 8Ø@200C/C	8NosØ12
		1st.F. = (200X450)	8NosØ16	8Ø@200C/C	
		2nd.F. = (200X450)	4NosØ16+ 4NosØ12		
		3rd.F. = (200X450)	8NosØ12		
		4th.F. = (200X450)	8NosØ12		
		5th.F. = (200X450)	8NosØ12		
7.	C7	ST.F. = (200X600)	10NosØ20	(2Nos Of Set) 8Ø@200C/C	
		1st.F. = (200X600)	4NosØ20+ 6NosØ16		
		2nd.F. = (200X600)	4NosØ16+ 6NosØ12	8Ø@200C/C	
		3rd.F. = (200X600)	10NosØ12		
		4th.F. = (200X450)	8NosØ12		
		5th.F. = (200X450)	8NosØ12		
8.	C8	ST.F. = (300X450)	10NosØ16+ 4NosØ12	(3Nos Of Set) 8Ø@200C/C	4NosØ12
		1st.F. = (200X450)	10NosØ16	(2Nos Of Set) 8Ø@200C/C	
		2nd.F. = (200X450)	8NosØ16	8Ø@200C/C	
		3rd.F. = (200X450)	8NosØ12		
		4th.F. = (200X450)	8NosØ12		
		5th.F. = (200X450)	8NosØ12		
9.	C9	ST.F. = (300X450)	8NosØ16+ 4NosØ12	(2Nos Of Set) 8Ø@200C/C	4NosØ12
		1st.F. = (200X450)	8NosØ16	8Ø@200C/C	
		2nd.F. = (200X450)	4NosØ16+ 4NosØ12		
		3rd.F. = (200X450)	8NosØ12		
		4th.F. = (200X450)	8NosØ12		
		5th.F. = (200X450)	8NosØ12		
10.	C10	ST.F. = (200X375)	8NosØ12	8Ø@200C/C	
		1st.F. = (200X375)	8NosØ12		
		2nd.F. = (200X375)	8NosØ12		
		3rd.F. = (200X375)	8NosØ12		
		4th.F. = (200X375)	8NosØ12		
		5th.F. = (200X375)	8NosØ12		
21.	C2A	ST.F. = (300X1200)	22NosØ20+ 12NosØ12	(4Nos Of Set) 8Ø@200C/C	12NosØ12
		1st.F. = (200X600)	12NosØ20	(3Nos Of Set) 8Ø@200C/C	
		2nd.F. = (200X600)	10NosØ20		
		3rd.F. = (200X600)	10NosØ16	8Ø@200C/C	
		4th.F. = (200X600)	10NosØ12		
		5th.F. = (200X600)	10NosØ12		

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
11.	C11	ST.F. = (300X375)	8NosØ12+ 3NosØ12	(2Nos Of Set) 8Ø@200C/C	3NosØ12
		1st.F. = (200X375)	8NosØ12	8Ø@200C/C	
		2nd.F. = (200X375)	8NosØ12		
		3rd.F. = (200X375)	8NosØ12		
		4th.F. = (200X375)	8NosØ12		
		5th.F. = (200X375)	8NosØ12		
12.	C12	ST.F. = (300X375)	8NosØ12+ 3NosØ12	(2Nos Of Set) 8Ø@200C/C	3NosØ12
		1st.F. = (200X375)	8NosØ12	8Ø@200C/C	
		2nd.F. = (200X375)	8NosØ12		
		3rd.F. = (200X375)	8NosØ12		
		4th.F. = (200X375)	8NosØ12		
		5th.F. = (200X375)	8NosØ12		
13.	C13	ST.F. = (300X900)	18NosØ20+ 8NosØ12	(4Nos Of Set) 8Ø@200C/C	8NosØ12
		1st.F. = (200X750)	16NosØ20	(3Nos Of Set) 8Ø@200C/C	
		2nd.F. = (200X750)	4NosØ20+ 12NosØ16		
		3rd.F. = (200X750)	16NosØ16		
		4th.F. = (200X750)	16NosØ12		
		5th.F. = (200X600)	10NosØ12	8Ø@200C/C	
14.	C14	ST.F. = (300X600)	12NosØ20	(2Nos Of Set) 8Ø@200C/C	
		1st.F. = -	-		
		2nd.F. = -	-		
		3rd.F. = -	-		
		4th.F. = -	-		
		5th.F. = -	-		
15.	C1A	ST.F. = (300X1200)	28NosØ20	(2Nos Of Set) 8Ø@200C/C	
		1st.F. = -	-		
		2nd.F. = -	-		
		3rd.F. = -	-		
		4th.F. = -	-		
		5th.F. = -	-		
16.	C6A	ST.F. = (300X600)	12NosØ20+ 6NosØ12	(3Nos Of Set) 8Ø@200C/C	8NosØ12
		1st.F. = (200X600)	12NosØ20	(2Nos Of Set) 8Ø@200C/C	
		2nd.F. = (200X600)	4NosØ20+ 8NosØ16		
		3rd.F. = (200X600)	4NosØ16+ 8NosØ12	8Ø@200C/C	
		4th.F. = (200X600)	10NosØ12		
		5th.F. = (200X600)	10NosØ12		
17.	C9A	ST.F. = (200X450)	8NosØ16	8Ø@200C/C	
		1st.F. = (200X450)	8NosØ16		
		2nd.F. = (200X450)	4NosØ16+ 4NosØ12		
		3rd.F. = (200X450)	8NosØ12		
		4th.F. = (200X450)	8NosØ12		
		5th.F. = (200X450)	8NosØ12		
18.	C6B	ST.F. = (200X750)	16NosØ16	(3Nos Of Set) 8Ø@200C/C	
		1st.F. = (200X750)	4NosØ16+ 8NosØ12		
		2nd.F. = (200X750)	4NosØ16+ 8NosØ12		
		3rd.F. = (200X600)	10NosØ12	8Ø@200C/C	
		4th.F. = (200X600)	10NosØ12		
		5th.F. = (200X600)	10NosØ12		
19.	C11A	ST.F. = (200X375)	8NosØ16	8Ø@200C/C	
		1st.F. = (200X375)	4NosØ16+ 4NosØ12		
		2nd.F. = (200X375)	8NosØ12		
		3rd.F. = (200X375)	8NosØ12		
		4th.F. = (200X375)	8NosØ12		
		5th.F. = (200X375)	8NosØ12		
20.	C4A	ST.F. = (300X1050)	24NosØ20+ 10NosØ12	(4Nos Of Set) 8Ø@200C/C	10NosØ12
		1st.F. = (200X900)	24NosØ16	(3Nos Of Set) 8Ø@200C/C	
		2nd.F. = (200X900)	12NosØ16+ 12NosØ12		
		3rd.F. = (200X900)	24NosØ12		
		4th.F. = (200X750)	18NosØ12		
		5th.F. = (200X600)	10NosØ12	8Ø@200C/C	
22.	C6C	ST.F. = (300X900)	16NosØ16+ 10NosØ12	(4Nos Of Set) 8Ø@200C/C	8NosØ12
		1st.F. = (200X450)	8NosØ16	8Ø@200C/C	
		2nd.F. = (200X450)	4NosØ16+ 4NosØ12		
		3rd.F. = (200X450)	8NosØ12		
		4th.F. = (200X450)	8NosØ12		
		5th.F. = (200X450)	8NosØ12		

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. M-SAND GIVES CONCRETE BETTER TO USE SAND ALONE FOR CONCRETE.
M-SAND SHOULD BE FREE FROM DUST. IT SHOULD NOT BE USED 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 :-

1. CONCRETING AT SITE SHALL BE STARTED ONLY AFTER VERIFYING ALL FABRICATION OF REINFORCEMENT BAR IN THE SHOP DRAWINGS AND THE SAME SHALL BE CHECKED AND APPROVED BY THE ENGINEER 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 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 (40 TIMES OF LORRY MIXER) TO THE FINAL PLACING TIME, TIME CONSUMED FOR TRANSPORTATION AND LAYING OF CONCRETE ON FORM WORK.
4. AFTER 60 MINUTES TO 90 MINUTES ON LAYING OF CONCRETE SOME HARDENING / MINOR SHRINKAGE CRACKS WILL BE FORMED ON THE TOP OF THE CONCRETE TO RECTIFY THEM, 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 240 MINUTES TO 300 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.

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PROPOSED RESIDENTIAL BUILDING FOR M/S.SREE ROSH PROPERTIES AT GILL NAGAR,CHOOLAIMEDU, CHENNAI.

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FOUNDATION DETAIL-I.

DATE: 21 .05. 2024 | SCALE:1:25 , 1:50

Dwg No... 11685 S -04

DSND : S.P.S.I

DRN : SENTHIL.R

REV	DESCRIPTION	CHKD	DRN	DATE
R2	DRAWING REVISED	S.P.S.I	SENTHIL.R	20.08.24
R1	DRAWING REVISED	S.P.S.I	SENTHIL.R	05.08.24

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Legal & Documentation Services

Certified EC, Patta, legal opinions, property verification, due diligence, litigation solutions, and legal heir certificates.

Property Development & Approvals

Building plan approvals, construction, layout and sub-division approvals, zone conversion, and occupancy certification.

NRI & Investment Services

Escrow Services, Rentals, Litigation Solutions, Property Valuation and Property Management

Compliance & Special Services

Demolition, Vaasthu checks, regularization of unauthorized buildings, and office space solutions.

Smarter Tools, Stronger Decisions

Property Valuation & Cost Estimation

Guideline Value, Apartment Composite Value, Stamp Duty & Registration Fees Calculator, Building Value Calculator, Capital Gains Calculator, Area Unit Converter, Length Unit Converter

Ownership, Compliance & Legal Verification

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

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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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