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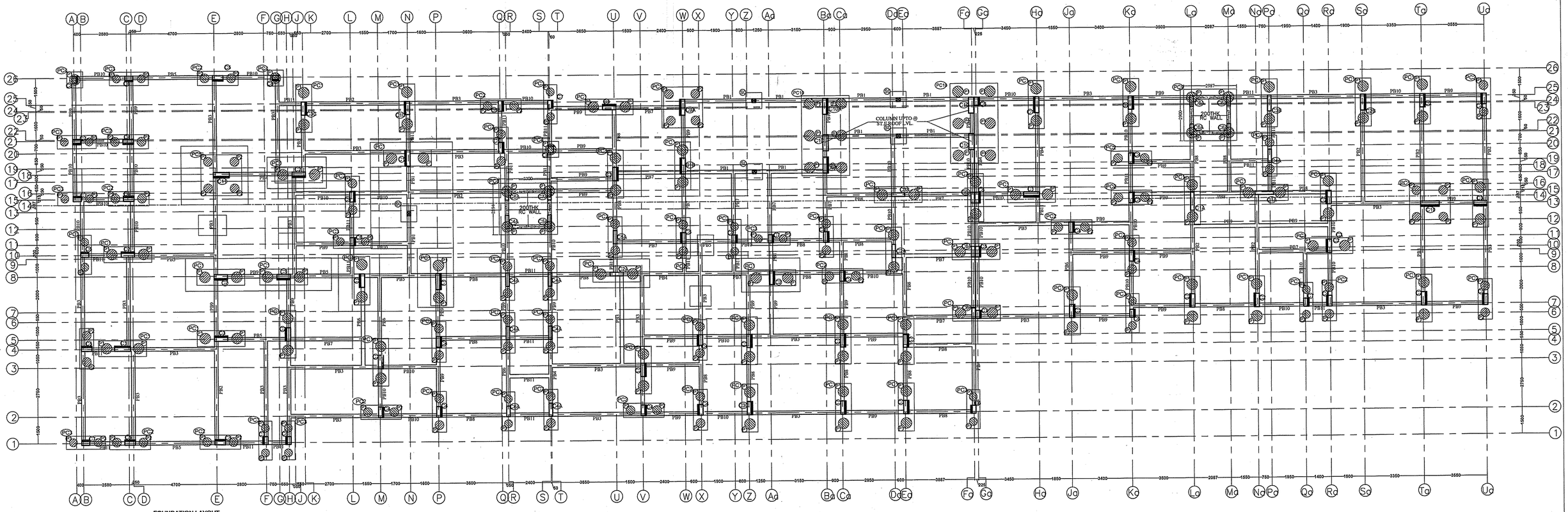
3/350/2 Mettukuppam,
OMR Thoraipakkam,
Chennai, India

hello@verified.realestate
+91 9996 12 9996

Official Property Record

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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 Ø12@TOP AND 3Nos Ø12@BTM AND 8 ST2.@8(200mm)C/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 :-

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 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.

S. C. VENKATESAN
Registered Structural Engineer
Grade-I (SE) in CMDA
No. 250, Kanjeepuram Co-operative Housing Society Ltd.,
Chrompet, Chennai-600 044.
Reg. No. SE/CR-1/2/2020 Valid upto 27.09.2024
Reg. No. RSE 100302024-CI 09.10.2024

S.P.S.Infrastructures M.E.A.M.E.
Structural Consultants
No.30, Kanjeepuram Sheet,
West Mambalam, Chennai-600 033.

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PROPOSED RESIDENTIAL BUILDING FOR M/S. SHREEROSH PROPERTIES AT ROYAPETAH, CHENNAI.

FOUNDATION LAYOUT.

DATE: 16 :04: 2024 | SCALE:1:25 , 1:50

ARCHITECT:

Dwg No...
11631
S -01


DSND : S.P.S.I

DRN : SENTHIL.R

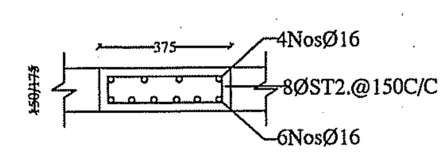
CONCRETE NOTES:-
1. CONCRETE SHALL BE OF GRADE M20 (MIX 1:1.5:3) UNLESS NOTE OTHERWISE.
FOR CONVENTIONAL MIXTURE MACHINE CONCRETE AND CONCRETE SHALL BE OF GRADE M25 FOR READY MIX CONCRETE. (340KG CEMENT PER Cu.m OF READY MIX CONCRETE WITHOUT FLYASH) EXCEPT FOR PILE , COLUMN CONCRETING. FOR COLUMN CONCRETE FOLLOW MIX 1:1:2 GRADE (M35)
2. 6Ø BARS ARE MILDSTEEL 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 5/8"(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 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 DE 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.

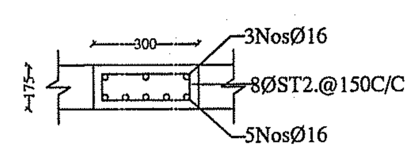
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R1	DRAWING REVISED	S.P.S.I	SENTHIL.R	07.08.24



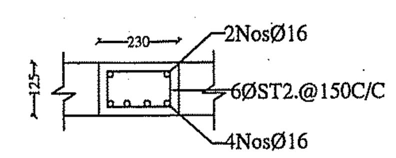
FIFTH FLOOR ROOF SLAB LAYOUT



C.S. OF CB1 (375X175/150)



C.S. OF CB2 (300X175)



C.S. OF CB2 (230X125)

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.

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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COLUMN DETAILS — 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.	FC1	1st.F. = (200X750)	14NosØ20	2Nos/Set 8Ø@200C/C	
		2nd.F. = (200X750)	14NosØ16		
		3rd.F. = (200X750)	14NosØ12		
		4th.F. = (200X600)	10NosØ12	8Ø@200C/C	
		5th.F. = (200X600)	10NosØ12		
2.	FC2	1st.F. = (200X750)	12NosØ20	2Nos/Set 8Ø@200C/C	
		2nd.F. = (200X750)	12NosØ16		
		3rd.F. = (200X750)	12NosØ12		
		4th.F. = (200X600)	10NosØ12	8Ø@200C/C	
		5th.F. = (200X600)	10NosØ12		
3.	FC3	1st.F. = (200X600)	10NosØ20	2Nos/Set 8Ø@200C/C	
		2nd.F. = (200X600)	10NosØ16	8Ø@200C/C	
		3rd.F. = (200X600)	10NosØ12		
		4th.F. = (200X600)	10NosØ12		
		5th.F. = (200X600)	10NosØ12		
4.	FC4	1st.F. = (200X200)	4NosØ16	8Ø@200C/C	
		2nd.F. = (200X200)	4NosØ16		
		3rd.F. = (200X200)	4NosØ16		
		4th.F. = (200X200)	4NosØ16		
		5th.F. = (200X200)	4NosØ16		

PROPOSED RESIDENTIAL BUILDING FOR M/S. SHREEROSH PROPERTIES AT ROYAPETAH, CHENNAI.

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 100502024 Dt. 09.10.2024
Door No.50, Kirupasankari Street,
West Mambalam, Chennai-600 033.

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

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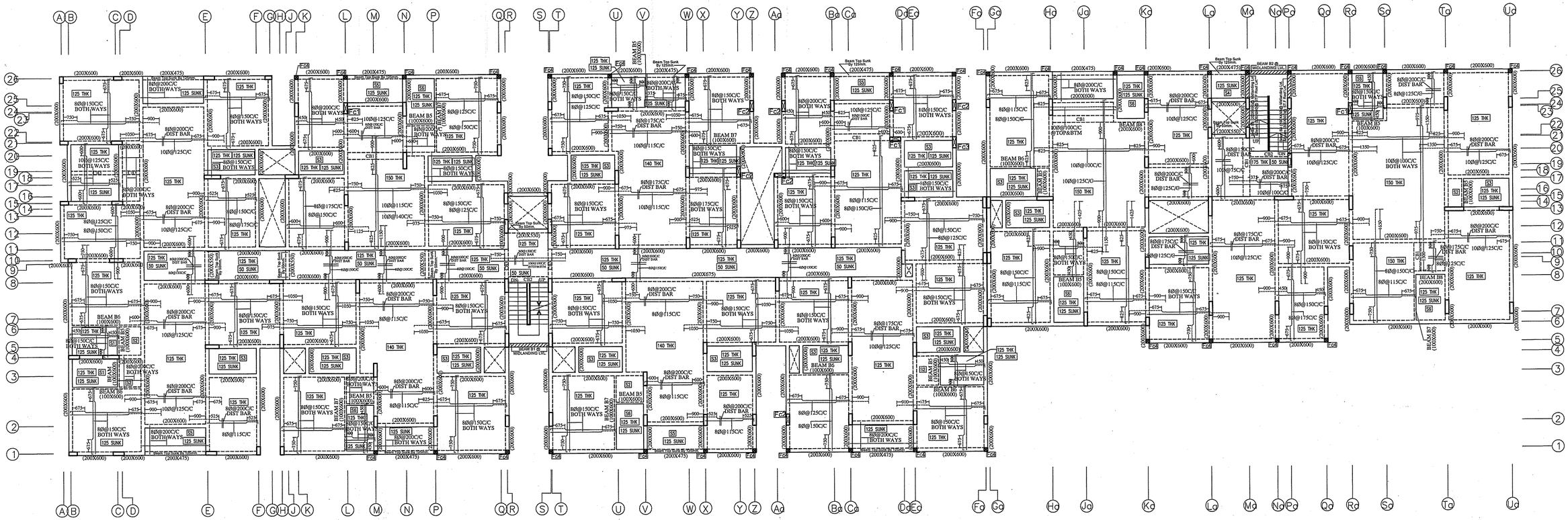
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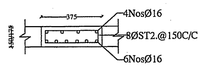
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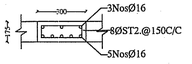
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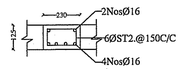
TYPICAL FLOOR ROOF SLAB LAYOUT
SECOND,THIRD & FOURTH FLOOR LAYOUT



C.S. OF CB1 (375X175/150)



C.S. OF CB2 (300X175)



C.S. OF CB2 (230X125)

IMPORTANT NOTES :-

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		3rd.F. = (200X750)	14Nos@12		
		4th.F. = (200X600)	10Nos@12	@@200C/C	
		5th.F. = (200X600)	10Nos@12		
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		2nd.F. = (200X750)	12Nos@16		
		3rd.F. = (200X750)	12Nos@12		
		4th.F. = (200X600)	10Nos@12	@@200C/C	
		5th.F. = (200X600)	10Nos@12		
3.	FC3	1st.F. = (200X600)	10Nos@20	2Nos/Set @@200C/C	
		2nd.F. = (200X600)	10Nos@16		
		3rd.F. = (200X600)	10Nos@12	@@200C/C	
		4th.F. = (200X600)	10Nos@12		
		5th.F. = (200X600)	10Nos@12		
4.	FC4	1st.F. = (200X200)	4Nos@16	@@200C/C	
		2nd.F. = (200X200)	4Nos@16		
		3rd.F. = (200X200)	4Nos@16		
		4th.F. = (200X200)	4Nos@16		
		5th.F. = (200X200)	4Nos@16		

S.P.S. INBARAJAN, M.E., (Struct)
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Grade-I (SE) in Chief
Reg. No. SE/GR-1/2024/02/009 dt. 27.02.2024
Grade-I (SE) of Greater Chennai Corporation
Door No.50, Kirupasankari Street,
Chennai-600 033. Ph : 2495 40 03

PROPOSED RESIDENTIAL BUILDING FOR M/S. SHREEROSH PROPERTIES AT ROYAPETAH, CHENNAI.

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

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TYPICAL SECOND,THIRD & FOURTH FLOOR ROOF SLAB LAYOUT.

DATE: 07 :05: 2024 | SCALE:1:25 , 1:50

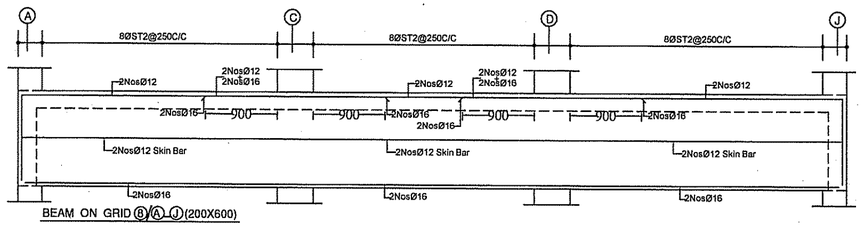
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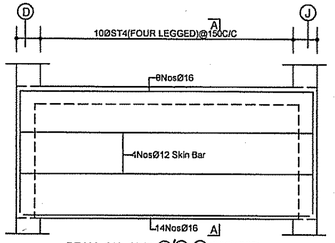
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DRN : MANIGANDAN.D

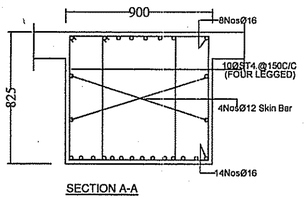
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R1	TYPICAL FLOOR ROOF SLAB REVISED	S.P.S.I	MANI.D	28.10.24



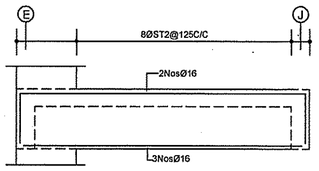
BEAM ON GRID (8)(A)-(J) (200X600)



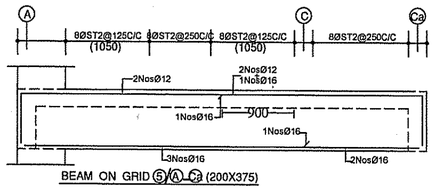
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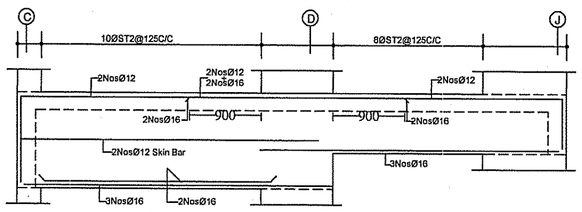
SECTION A-A



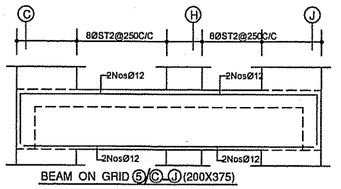
BEAM ON GRID (6)(E)-(J) (200X375)



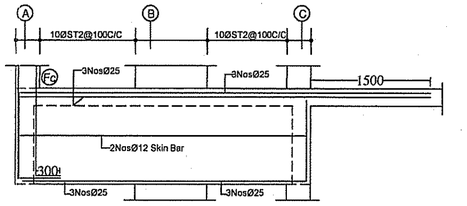
BEAM ON GRID (5)(A)-(C) (200X375)



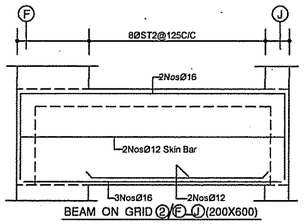
BEAM ON GRID (6)(C)-(J) (200X600)(200X375)



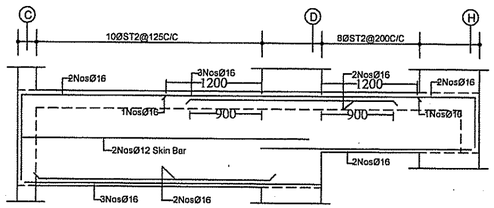
BEAM ON GRID (5)(C)-(J) (200X375)



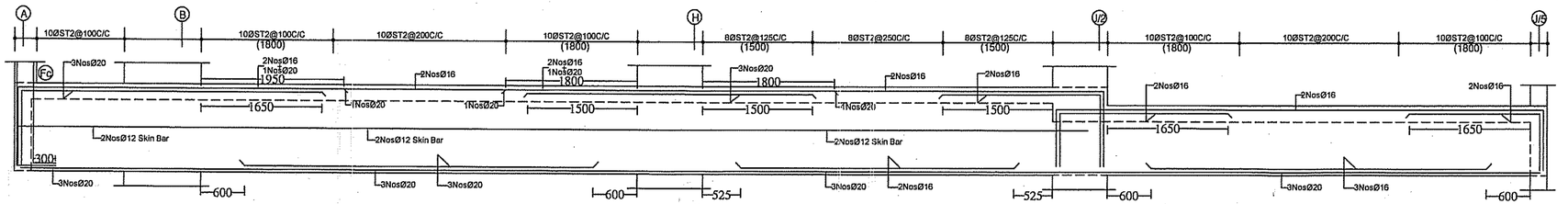
BEAM ON GRID (3)(A)-(C) (200X600)



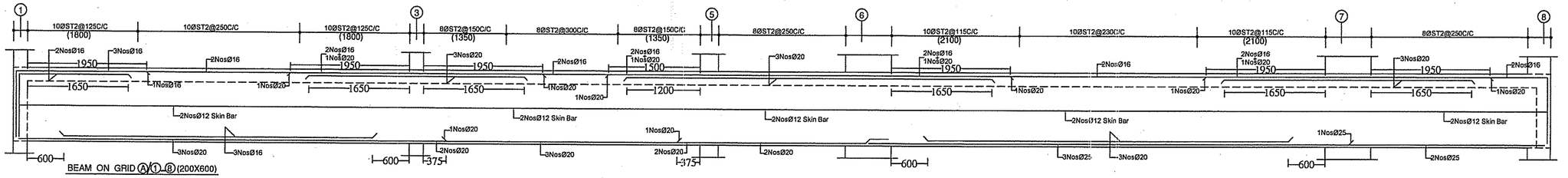
BEAM ON GRID (2)(F)-(J) (200X600)



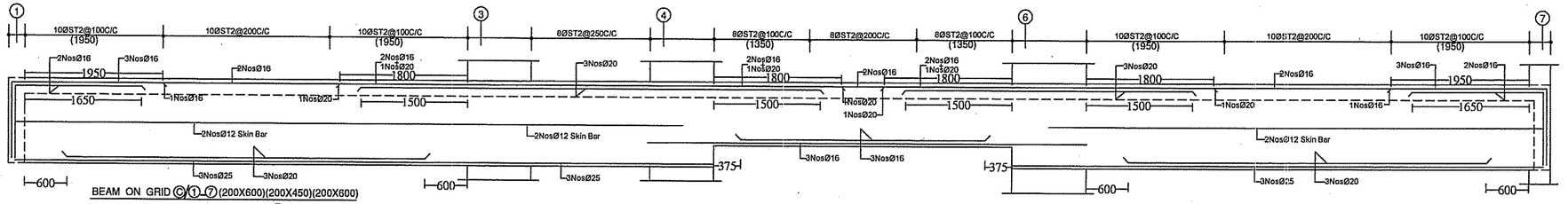
BEAM ON GRID (4)(C)-(H) (200X600)(200X375)



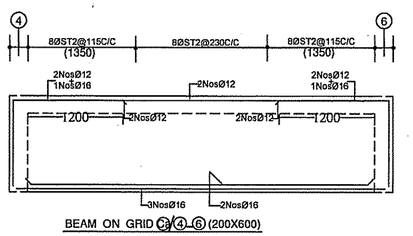
BEAM ON GRID (1)(A)-(J5) (200X600)(200X475)



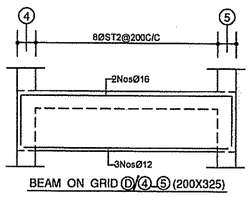
BEAM ON GRID (A)(1)-(8) (200X600)



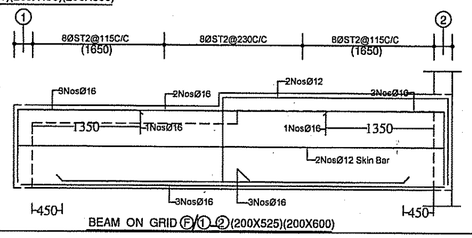
BEAM ON GRID (C)(1)-(7) (200X600)(200X450)(200X600)



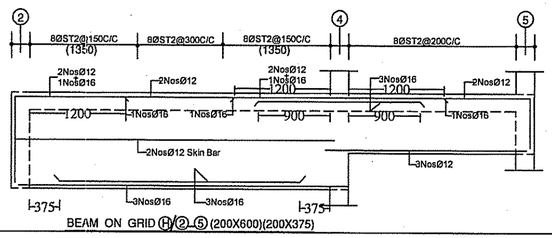
BEAM ON GRID (C)(4)-(6) (200X600)



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



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



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

TYPICAL FLOOR ROOF BEAM

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PROPOSED RESIDENTIAL BUILDING FOR M/S. SHREEROSH PROPERTIES
AT ROYAPETAH, CHENNAI.

TYPICAL FLOOR(S.F.T.F.F) ROOF BEAM DETAILS

Dwg No.: 11631 S-10

DATE: 07 -05- 2024 | SCALE:1:25 , 1:50

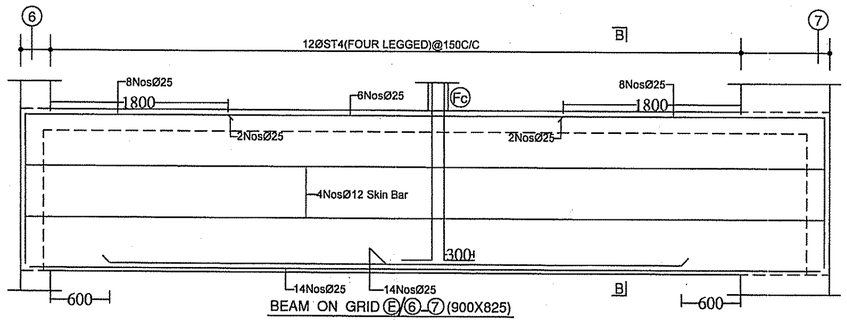
ARCHITECT:

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

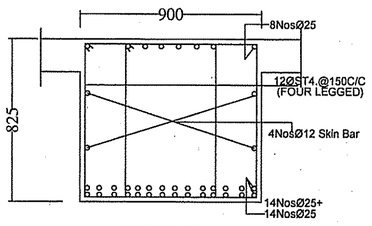
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DSND : S.P.SJ

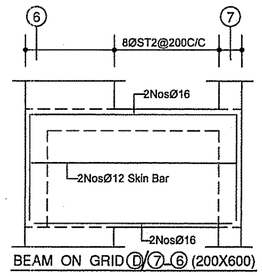
DRF: MAHAMAND



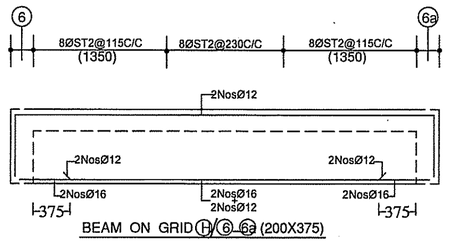
BEAM ON GRID Ⓔ/⑥-⑦ (900X825)



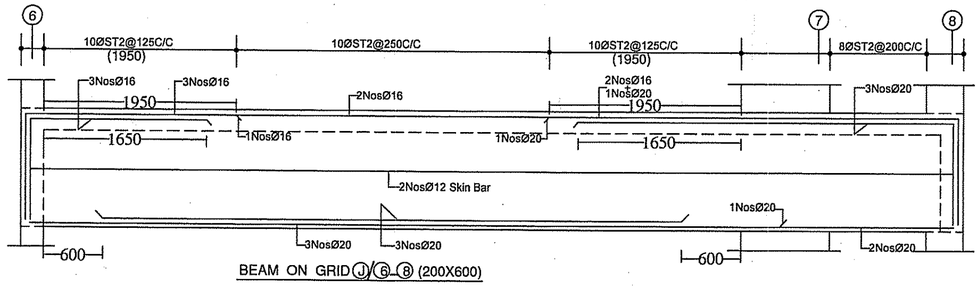
SECTION B-B



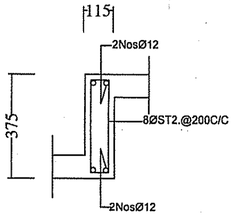
BEAM ON GRID Ⓓ/⑦-⑥ (200X600)



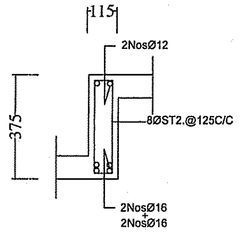
BEAM ON GRID Ⓗ/⑥-6a (200X375)



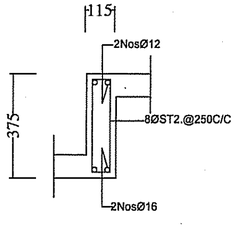
BEAM ON GRID Ⓙ/⑥-⑧ (200X600)



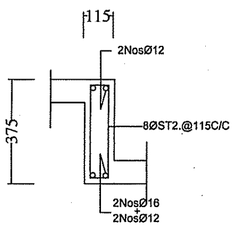
C.S. OF BEAM B2 (100X375)



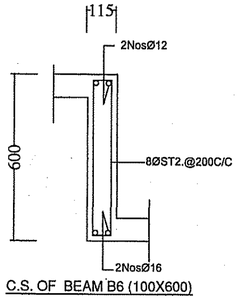
C.S. OF BEAM B4 (100X375)



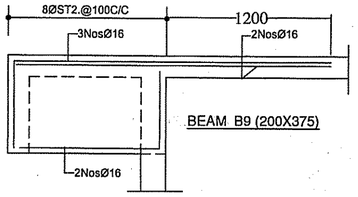
C.S. OF BEAM B3 (100X375)



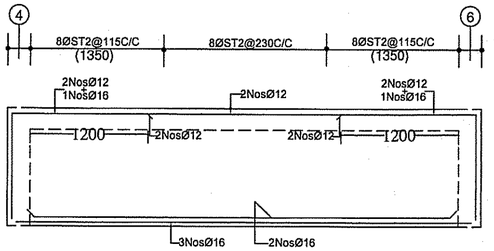
C.S. OF BEAM B5 (100X375)



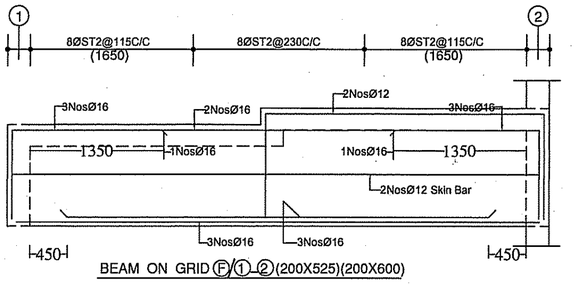
C.S. OF BEAM B6 (100X600)



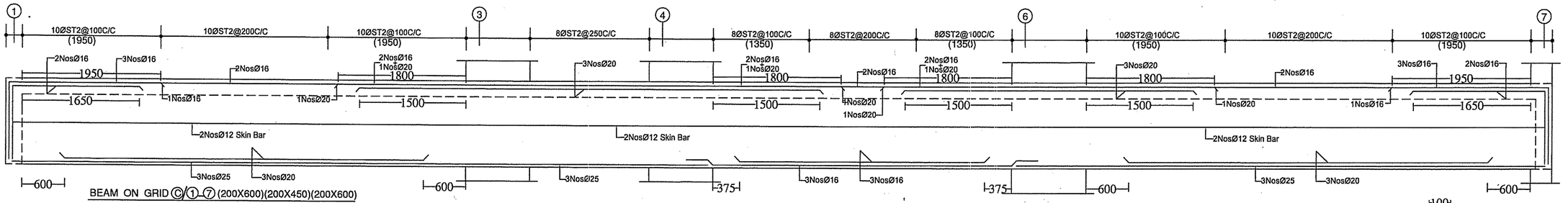
BEAM B9 (200X375)



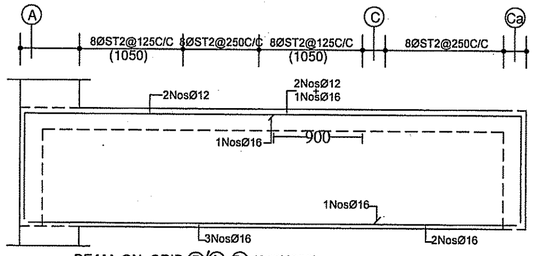
BEAM ON GRID Ⓒ/④-⑥ (200X600)



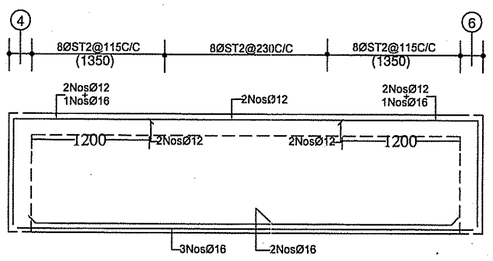
BEAM ON GRID Ⓕ/①-② (200X525)(200X600)



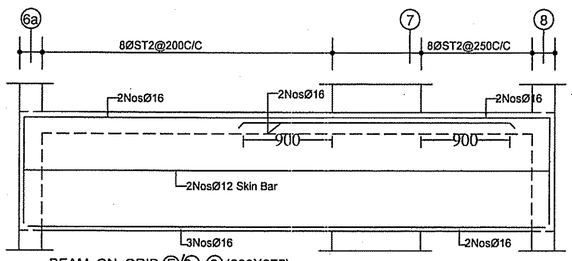
BEAM ON GRID Ⓒ/①-⑦ (200X600)(200X450)(200X600)



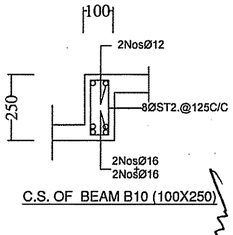
BEAM ON GRID Ⓐ/Ⓐ-Ca (200X600)



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 TYPICAL FLOOR ROOF BEAM DETAILS

FIFTH FLOOR ROOF BEAM

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Valid upto 07.10.2027

Reg. No.RSE/ 100/2021 Dt. 08.10.2024
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S.P.S.Inbarajan, M.E., A.M.I.E.,
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Reg. No. [illegible]
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Reg. No.RSE/ 100/2021 Dt. 08.10.2024
Valid upto 07.10.2027

PROPOSED RESIDENTIAL BUILDING FOR M/S. SHREEROSH PROPERTIES
No.60, Sri Meenakshi Street, Vijaya Nagar, Velachery Main Road, Guindy, Chennai-600 032.

FIFTH FLOOR ROOF BEAM DETAILS

DATE: 07 .05. 2024 | SCALE:1:25 , 1:50

ARCHITECT:

Dwg No... **11631 S -11**

DSND : S.P.S.I

DRN : MANIKANDAN.D

S. P. S. INBARAJAN, M.E., (Struct)
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Grade-I (STRUCTURAL) Engineer, Government Approved Valuer,
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PROPOSED RESIDENTIAL BUILDING FOR M/S. SHREEROSH PROPERTIES AT ROYAPETAH, CHENNAI.

STILT & FIRST FLOOR ROOF BEAM DETAILS

DATE: 07 .05. 2024 | SCALE:1:25 , 1:50

ARCHITECT:

DSN'D : S.P.S.I | DRN : MUKUNDAN

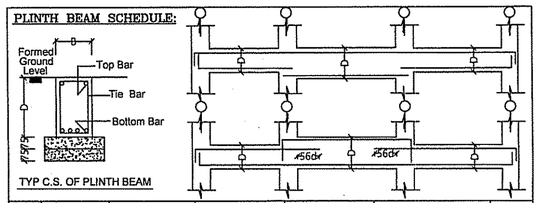
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11631

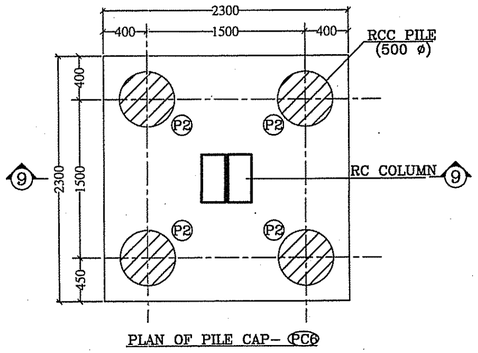
S -09

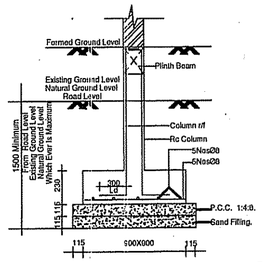
BEAM ON GRID D/(1-4)/(A-S) (200X375)
BEAM ON GRID F/(1-2)/(A-S) (200X600)
BEAM ON GRID H/(2-5)/(A-S) (200X600)(200X375)
BEAM ON GRID J/(6-8)/(A-S) (200X600)
BEAM ON GRID C/(1-7)/(A-S) (200X600)(200X450)(200X600)
BEAM ON GRID G/(4-6)/(A-S) (200X600)
BEAM ON GRID A/(1-8)/(A-S) (200X600)
C.S. OF BEAM B6 (100X600)
BEAM ON GRID 1/(A-J/5)/(A-S) (200X600)
BEAM ON GRID E/(6a-8)/(A-S) (200X375)
BEAM ON GRID J/5/(1-2)/(A-S) (200X600)
BEAM ON GRID 2/(E-J)/(A-S) (200X600)
BEAM ON GRID 3/(A-C)/(A-S) (200X600)
BEAM ON GRID 4/(C-H)/(A-S) (200X600)(200X375)
BEAM ON GRID 5/(C-J)/(A-S) (200X375)
BEAM ON GRID 6/(C-J)/(A-S) (200X600)(200X375)
BEAM ON GRID 6a/(E-J)/(A-S) (200X375)
BEAM ON GRID 7/(A-C)/(A-S) (200X375)
BEAM ON GRID 8/(E-J)/(A-S) (200X600)
BEAM ON GRID H/(6-6a)/(A-S) (200X375)

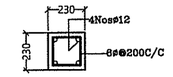
PLINTH BEAM SCHEDULE:

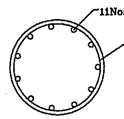


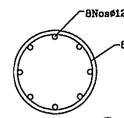
SL. No.	Name Of Plinth Beam	Plinth Beam Size (BXD)	Plinth Beam Top Bar	Plinth Beam Bottom Bar	Plinth Beam Tie	
1.	PB1	(200X450)	3Nos⌀16	3Nos⌀16+ 2Nos⌀16	10⌀ST2.@175C/C	Formed Ground Level
2.	PB2	(200X450)	2Nos⌀16	3Nos⌀16+ 2Nos⌀16	8⌀ST2.@115C/C(End 1/3rd Span) 8⌀ST2.@230C/C(Mid 1/3rd Span) 8⌀ST2.@115C/C(End 1/3rd Span)	
3.	PB3	(200X450)	2Nos⌀16	3Nos⌀16+ 3Nos⌀12	10⌀ST2.@200C/C	
4.	PB4	(200X450)	2Nos⌀16	3Nos⌀16+ 2Nos⌀12	8⌀ST2.@200C/C	
5.	PB5	(200X450)	2Nos⌀12	2Nos⌀16	8⌀ST2.@200C/C	
6.	PB6	(200X375)	2Nos⌀16	3Nos⌀16+ 2Nos⌀12	8⌀ST2.@200C/C	
7.	PB7	(200X375)	2Nos⌀16	3Nos⌀16	8⌀ST2.@200C/C	
8.	PB8	(200X375)	2Nos⌀12	2Nos⌀16+ 1Nos⌀12	8⌀ST2.@250C/C	
9.	PB9	(200X375)	2Nos⌀12	2Nos⌀12+ 1Nos⌀16	8⌀ST2.@250C/C	
10.	PB10	(200X375)	2Nos⌀12	3Nos⌀12	8⌀ST2.@250C/C	
11.	PB11	(200X375)	2Nos⌀12	2Nos⌀12	8⌀ST2.@250C/C	

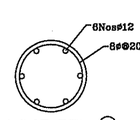


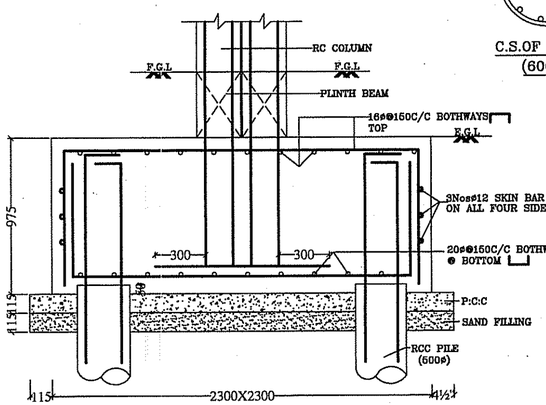








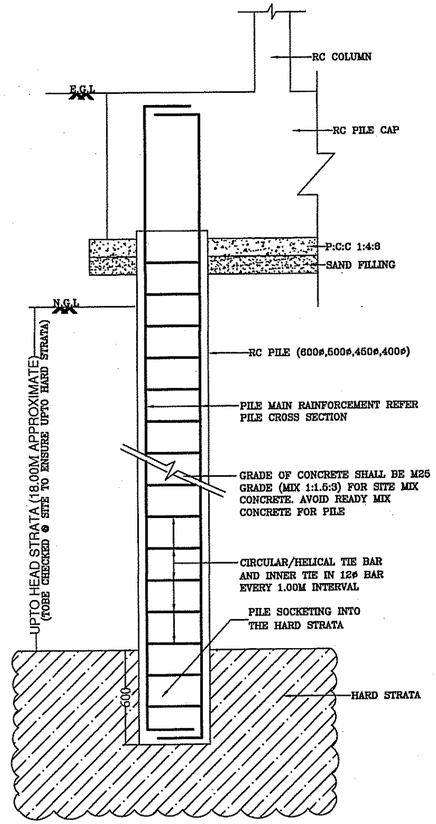


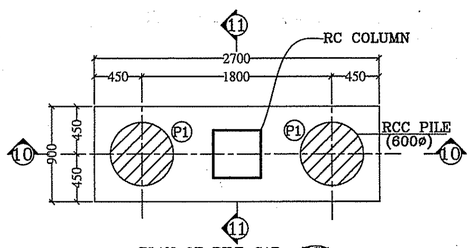


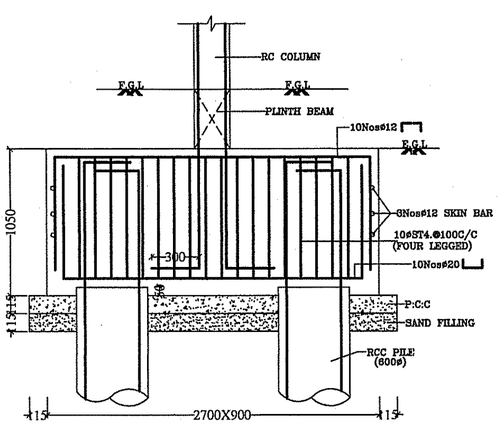
PILE NOTES :–

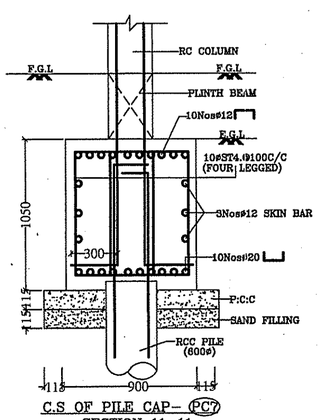
BORED CAST IN SITU END BEARING DRIVEN PILE BY DIRECT MUD CIRCULATION METHOD (DMC).
BORING TERMINATED AT A DEPTH WHERE 'N' VALUE IN SPT TEST IS MORE THAN 100 FOR MULTI STOREY BUILDING (HEIGHT EXCEEDING 15.0 METER) AND 50 FOR OTHER BUILDING (HEIGHT LESSTHEN 15.0 METER) AND AN EXTRA PENETRATION FOR MINIMUM OF 600mm (PILE SOCKETING) BEYOND ABOVE LEVEL IN THE HARD STRATA.
APPROXIMATELY LENGTH OF PILE SHALL BE 20.00M. 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 600⌀ 113 TONNES,500⌀ 78 TONNES,450⌀ 63 TONNES,400⌀ 50 TONNES.
INITIAL LOAD TEST ON 1%LES 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 :–

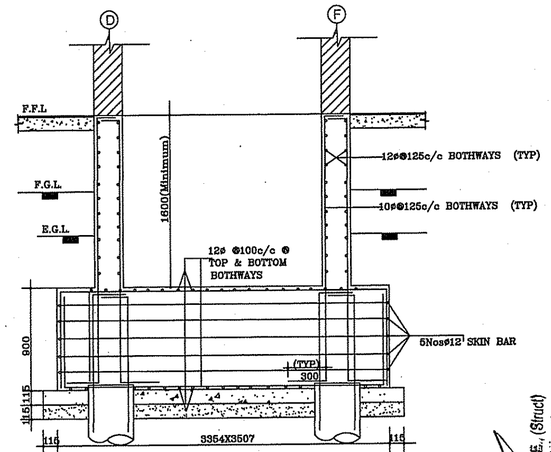
SAND SHALL BE REPLACED BY M-SAND FULLY OR PARTIALLY IN ANY PROPORTION FOR PLAIN CEMENT CONCRETE, REINFORCEMENT CEMENT CONCRETE! EXCEPT COLUMN CONCRETE. FOR COLUMN CONCRETE BETTER TO USE SAND ALONE FOR CONCRETE.
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3. TIME DURATION INCLUDES FROM THE TIME 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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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.
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Reg. No. SE/GR-1/2024/[illegible] dated [illegible]
Grade-I (RSE) in Greater Chennai Corporation
Reg. No. RSE-[illegible]/GCC/[illegible]/2024
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Structural Consultant

PROPOSED RESIDENTIAL BUILDING FOR M/S. SHREEROSH PROPERTIES AT ROYAPETAH, CHENNAI.

FOUNDATION DETAILS-III.

Dwg No.– 11631 S-04

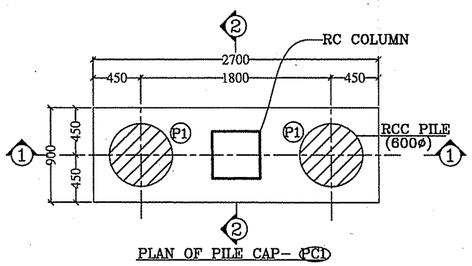
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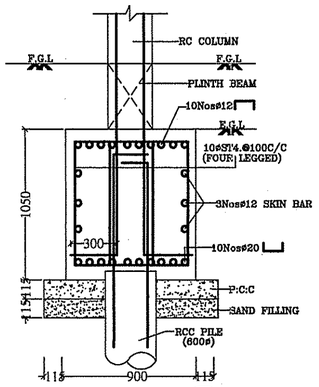
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DRN : SENTHILR

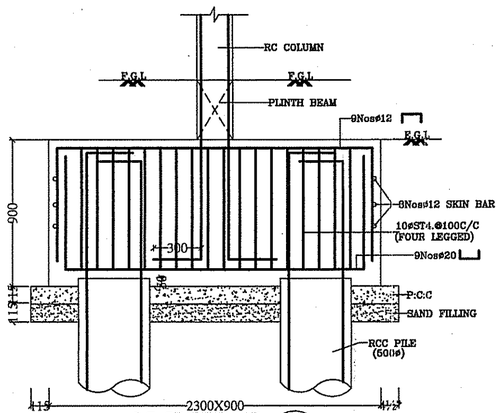
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Consultants - Engineers



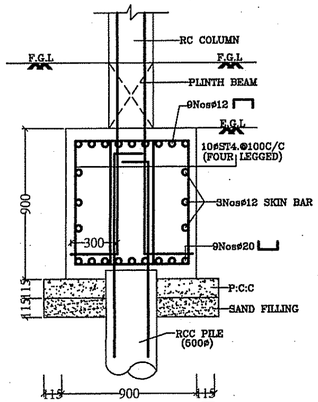
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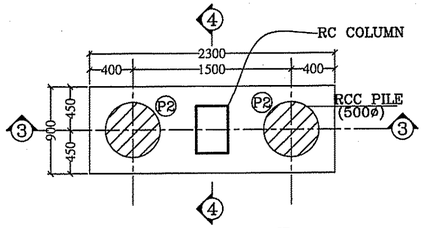
C.S OF PILE CAP– PC1
SECTION 2–2



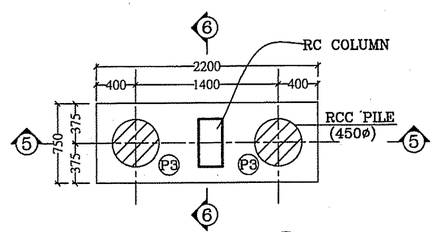
L.S OF PILE CAP– PC2
SECTION 3–3



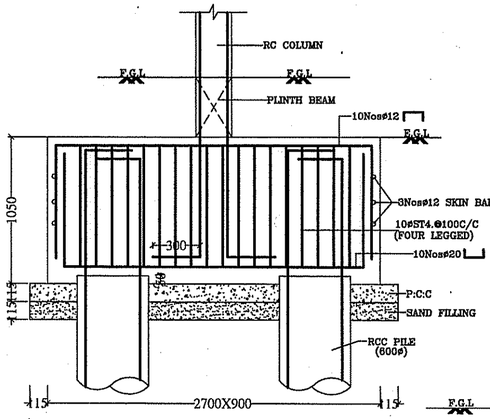
C.S OF PILE CAP– PC2
SECTION 4–4



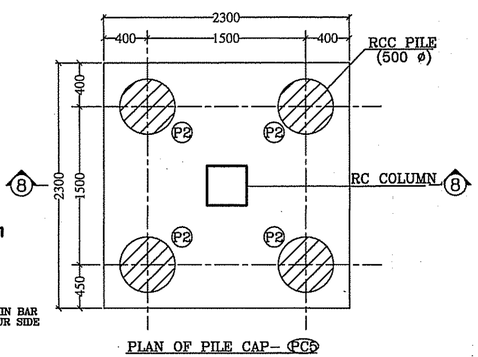
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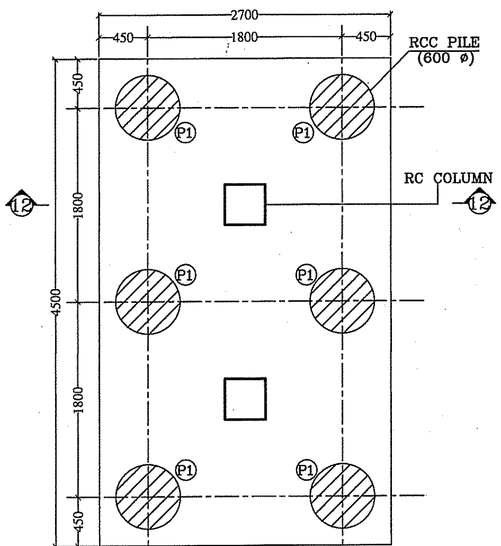
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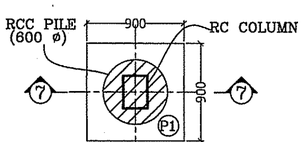
L.S OF PILE CAP– PC1
SECTION 1–1



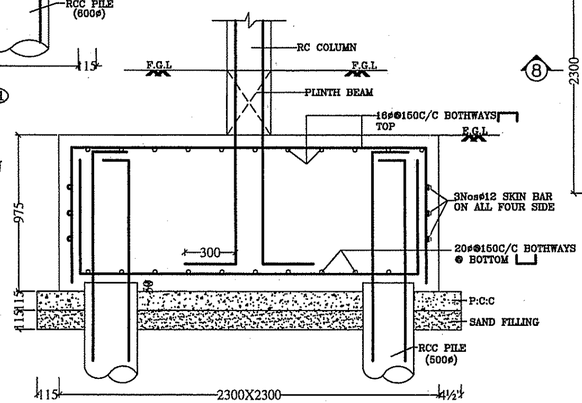
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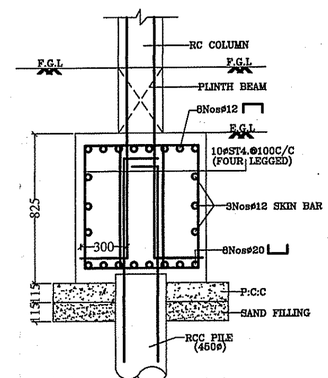
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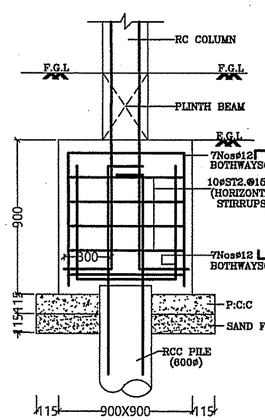
PLAN OF PILE CAP– PC4



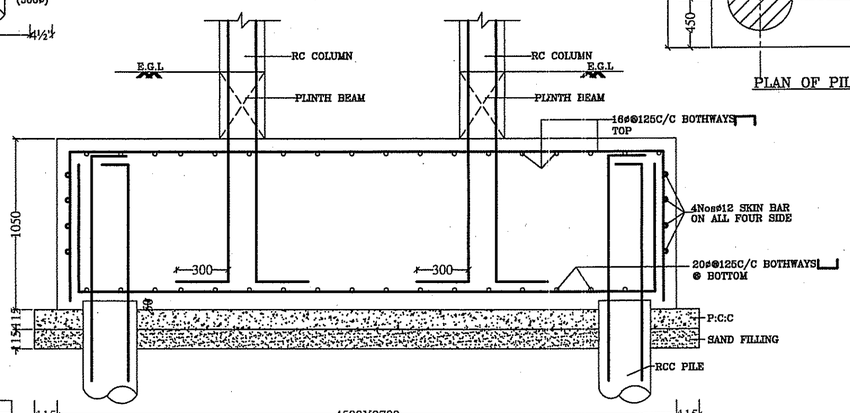
L.S OF PILE CAP– PC5
SECTION 8–8



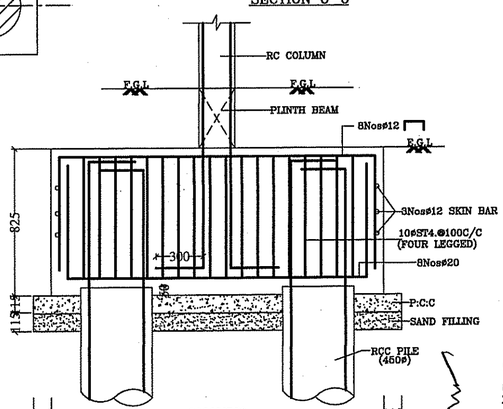
C.S OF PILE CAP– PC3
SECTION 6–6



L.S OF PILE CAP– PC2
SECTION 7–7



L.S OF PILE CAP– PC10
SECTION 12–12



L.S OF PILE CAP– PC3
SECTION 5–5

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PROPOSED RESIDENTIAL BUILDING FOR M/S. SHREEROSH PROPERTIES AT ROYAPETAH, CHENNAI.

FOUNDATION DETAILS-II.

Dwg No.
11631
S -03

DATE: 16 :04: 2024 | SCALE:1:25 , 1:50

DSND : S.P.S.I
DRN : SBATMILR

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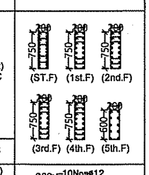
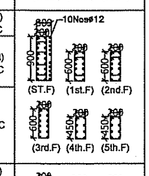
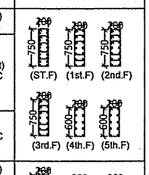
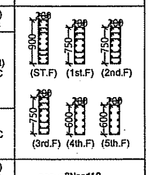
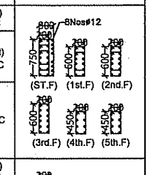
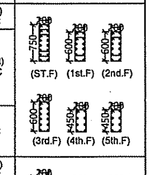
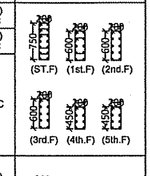
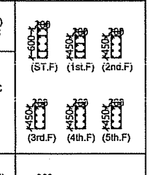
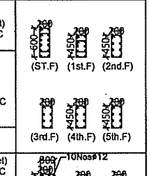
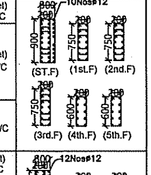
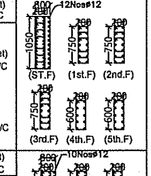
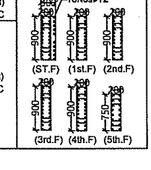
BOURNA
Consultants - Engineers

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Reg. No. SE/GR-I/2012/0002 dt. 27.12.2012
Grade-I (RSE) in Chennai Corporation
Reg. No. RSE 1000/2015 dt. 10.03.2015

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Mobile: 9840026490, 9884026490
Email: inbarajan.spsi@gmail.com

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.

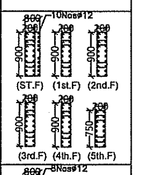
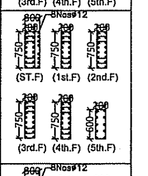
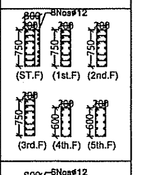
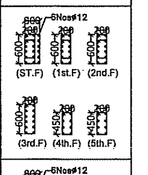
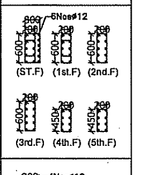
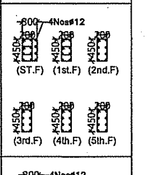
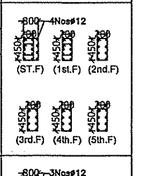
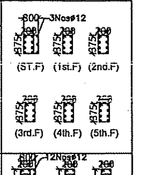
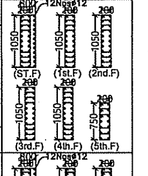
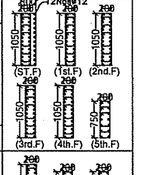
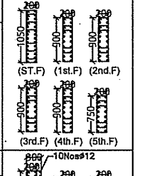
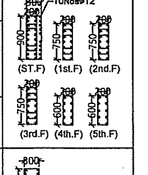
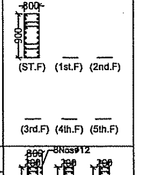
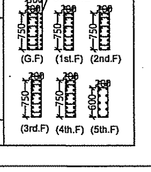
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15.	C2A	St.F. = (200X750)	24Nos Ø20	(3Nos Of Set) 8Ø@200C/C	
		1st.F. = (200X750)	16Nos Ø20		
		2nd.F. = (200X750)	6Nos Ø20 +10Nos Ø16		
		3rd.F. = (200X750)	6Nos Ø20 +10Nos Ø12		
		4th.F. = (200X750)	16Nos Ø12		
		5th.F. = (200X600)	10Nos Ø12	8Ø@200C/C	
16.	C2B	St.F. = (300X900)	18Nos Ø16+ 10Nos Ø12	(4Nos Of Set) 8Ø@200C/C	
		1st.F. = (200X600)	12Nos Ø16	(2Nos Of Set) 8Ø@200C/C	
		2nd.F. = (200X600)	4Nos Ø16 +8Nos Ø12		
		3rd.F. = (200X600)	10Nos Ø12	8Ø@200C/C	
		4th.F. = (200X450)	8Nos Ø12		
		5th.F. = (200X450)	8Nos Ø12		
16.	C3A	St.F. = (300X750)	22Nos Ø20	(3Nos Of Set) 8Ø@200C/C	
		1st.F. = (200X750)	14Nos Ø20	(2Nos Of Set) 8Ø@200C/C	
		2nd.F. = (200X750)	14Nos Ø16		
		3rd.F. = (200X750)	14Nos Ø12		
		4th.F. = (200X600)	10Nos Ø12	8Ø@200C/C	
		5th.F. = (200X600)	10Nos Ø12		
17.	C3B	St.F. = (200X900)	20Nos Ø20	(3Nos Of Set) 8Ø@200C/C	
		1st.F. = (200X750)	14Nos Ø20	(2Nos Of Set) 8Ø@200C/C	
		2nd.F. = (200X750)	14Nos Ø16		
		3rd.F. = (200X750)	14Nos Ø12		
		4th.F. = (200X600)	10Nos Ø12	8Ø@200C/C	
		5th.F. = (200X600)	10Nos Ø12		
18.	C3C	St.F. = (300X750)	14Nos Ø20+ 8Nos Ø12	(4Nos Of Set) 8Ø@200C/C	
		1st.F. = (200X600)	12Nos Ø16	(2Nos Of Set) 8Ø@200C/C	
		2nd.F. = (200X600)	4Nos Ø16 +8Nos Ø12		
		3rd.F. = (200X600)	10Nos Ø12	8Ø@200C/C	
		4th.F. = (200X450)	8Nos Ø12		
		5th.F. = (200X450)	8Nos Ø12		
19.	C4A	St.F. = (300X750)	16Nos Ø20	(3Nos Of Set) 8Ø@200C/C	
		1st.F. = (200X600)	12Nos Ø20	(2Nos Of Set) 8Ø@200C/C	
		2nd.F. = (200X600)	12Nos Ø16		
		3rd.F. = (200X600)	12Nos Ø12		
		4th.F. = (200X450)	8Nos Ø12	8Ø@200C/C	
		5th.F. = (200X450)	8Nos Ø12		
20.	C5A	St.F. = (200X750)	14Nos Ø20	(3Nos Of Set) 8Ø@200C/C	
		1st.F. = (200X600)	10Nos Ø20	(2Nos Of Set) 8Ø@200C/C	
		2nd.F. = (200X600)	10Nos Ø16		
		3rd.F. = (200X600)	10Nos Ø12	8Ø@200C/C	
		4th.F. = (200X450)	8Nos Ø12		
		5th.F. = (200X450)	8Nos Ø12		
21.	C6A	St.F. = (200X600)	10Nos Ø20	(2Nos Of Set) 8Ø@200C/C	
		1st.F. = (200X450)	8Nos Ø20		
		2nd.F. = (200X450)	8Nos Ø16	8Ø@200C/C	
		3rd.F. = (200X450)	8Nos Ø12		
		4th.F. = (200X450)	8Nos Ø12		
		5th.F. = (200X450)	8Nos Ø12		
22.	C7A	St.F. = (200X600)	12Nos Ø16	(2Nos Of Set) 8Ø@200C/C	
		1st.F. = (200X450)	10Nos Ø16		
		2nd.F. = (200X450)	8Nos Ø16	8Ø@200C/C	
		3rd.F. = (200X450)	8Nos Ø12		
		4th.F. = (200X450)	8Nos Ø12		
		5th.F. = (200X450)	8Nos Ø12		
23.	C9A	St.F. = (300X900)	20Nos Ø20+ 10Nos Ø12	(4Nos Of Set) 8Ø@200C/C	
		1st.F. = (200X750)	14Nos Ø20	(3Nos Of Set) 8Ø@200C/C	
		2nd.F. = (200X750)	14Nos Ø16		
		3rd.F. = (200X750)	14Nos Ø12		
		4th.F. = (200X600)	10Nos Ø12	8Ø@200C/C	
		5th.F. = (200X600)	10Nos Ø12		
24.	C10A	St.F. = (300X1050)	32Nos Ø20+ 12Nos Ø12	(5Nos Of Set) 8Ø@200C/C	
		1st.F. = (200X750)	14Nos Ø20	(3Nos Of Set) 8Ø@200C/C	
		2nd.F. = (200X750)	14Nos Ø16		
		3rd.F. = (200X750)	14Nos Ø12		
		4th.F. = (200X600)	10Nos Ø12	8Ø@200C/C	
		5th.F. = (200X600)	10Nos Ø12		
25.	C11	St.F. = (300X900)	24Nos Ø20+ 10Nos Ø12	(4Nos Of Set) 8Ø@200C/C	
		1st.F. = (200X900)	24Nos Ø20	(3Nos Of Set) 8Ø@200C/C	
		2nd.F. = (200X900)	10Nos Ø20 +14Nos Ø16		
		3rd.F. = (200X900)	10Nos Ø20 +14Nos Ø12		
		4th.F. = (200X900)	24Nos Ø12		
		5th.F. = (200X750)	18Nos Ø12		

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

1. FOR M35 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 (a) 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.

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)	20Nos Ø20+ 10Nos Ø12	(4Nos Of Set) 8Ø@200C/C	
		1st.F. = (200X900)	20Nos Ø20	(3Nos Of Set) 8Ø@200C/C	
		2nd.F. = (200X900)	6Nos Ø20 +14Nos Ø16		
		3rd.F. = (200X900)	6Nos Ø20 +14Nos Ø12		
		4th.F. = (200X900)	20Nos Ø12		
		5th.F. = (200X750)	16Nos Ø12		
2.	C2	St.F. = (300X750)	16Nos Ø20+ 8Nos Ø12	(4Nos Of Set) 8Ø@200C/C	
		1st.F. = (200X750)	16Nos Ø20	(3Nos Of Set) 8Ø@200C/C	
		2nd.F. = (200X750)	6Nos Ø20 +10Nos Ø16		
		3rd.F. = (200X750)	6Nos Ø20 +10Nos Ø12		
		4th.F. = (200X750)	16Nos Ø12		
		5th.F. = (200X600)	10Nos Ø12	8Ø@200C/C	
3.	C3	St.F. = (300X750)	14Nos Ø20+ 8Nos Ø12	(4Nos Of Set) 8Ø@200C/C	
		1st.F. = (200X750)	14Nos Ø20	(2Nos Of Set) 8Ø@200C/C	
		2nd.F. = (200X750)	14Nos Ø16		
		3rd.F. = (200X750)	14Nos Ø12		
		4th.F. = (200X600)	10Nos Ø12	8Ø@200C/C	
		5th.F. = (200X600)	10Nos Ø12		
4.	C4	St.F. = (300X600)	12Nos Ø20+ 6Nos Ø12	(3Nos Of Set) 8Ø@200C/C	
		1st.F. = (200X600)	12Nos Ø20	(2Nos Of Set) 8Ø@200C/C	
		2nd.F. = (200X600)	12Nos Ø16		
		3rd.F. = (200X600)	12Nos Ø12		
		4th.F. = (200X450)	8Nos Ø12	8Ø@200C/C	
		5th.F. = (200X450)	8Nos Ø12		
5.	C5	St.F. = (300X600)	10Nos Ø20+ 6Nos Ø12	(3Nos Of Set) 8Ø@200C/C	
		1st.F. = (200X600)	10Nos Ø20	(2Nos Of Set) 8Ø@200C/C	
		2nd.F. = (200X600)	10Nos Ø16		
		3rd.F. = (200X600)	10Nos Ø12	8Ø@200C/C	
		4th.F. = (200X450)	8Nos Ø12		
		5th.F. = (200X450)	8Nos Ø12		
6.	C6	St.F. = (300X450)	8Nos Ø20+ 4Nos Ø12	(3Nos Of Set) 8Ø@200C/C	
		1st.F. = (200X450)	8Nos Ø20	(2Nos Of Set) 8Ø@200C/C	
		2nd.F. = (200X450)	8Nos Ø16		
		3rd.F. = (200X450)	8Nos Ø12	8Ø@200C/C	
		4th.F. = (200X450)	8Nos Ø12		
		5th.F. = (200X450)	8Nos Ø12		
7.	C7	St.F. = (300X450)	10Nos Ø16+ 4Nos Ø12	(3Nos Of Set) 8Ø@200C/C	
		1st.F. = (200X450)	10Nos Ø16	(2Nos Of Set) 8Ø@200C/C	
		2nd.F. = (200X450)	8Nos Ø16		
		3rd.F. = (200X450)	8Nos Ø12	8Ø@200C/C	
		4th.F. = (200X450)	8Nos Ø12		
		5th.F. = (200X450)	8Nos Ø12		
8.	C8	St.F. = (300X375)	4Nos Ø16+ 4Nos Ø12+ 3Nos Ø12	(2Nos Of Set) 8Ø@200C/C	
		1st.F. = (200X375)	4Nos Ø16+ 4Nos Ø12		
		2nd.F. = (200X375)	8Nos Ø12	8Ø@200C/C	
		3rd.F. = (200X375)	8Nos Ø12		
		4th.F. = (200X375)	8Nos Ø12		
		5th.F. = (200X375)	8Nos Ø12		
9.	C9	St.F. = (300X1050)	22Nos Ø20+ 12Nos Ø12	(5Nos Of Set) 8Ø@200C/C	
		1st.F. = (200X1050)	22Nos Ø20	(4Nos Of Set) 8Ø@200C/C	
		2nd.F. = (200X1050)	8Nos Ø20 +14Nos Ø16		
		3rd.F. = (200X1050)	8Nos Ø20 +14Nos Ø12		
		4th.F. = (200X1050)	22Nos Ø12		
		5th.F. = (200X750)	14Nos Ø12	(2Nos Of Set) 8Ø@200C/C	
10.	C10	St.F. = (300X1050)	28Nos Ø20+ 12Nos Ø12	(5Nos Of Set) 8Ø@200C/C	
		1st.F. = (200X1050)	28Nos Ø20	(4Nos Of Set) 8Ø@200C/C	
		2nd.F. = (200X1050)	10Nos Ø20 +18Nos Ø16		
		3rd.F. = (200X1050)	10Nos Ø20 +18Nos Ø12		
		4th.F. = (200X1050)	28Nos Ø12		
		5th.F. = (200X750)	14Nos Ø12	(2Nos Of Set) 8Ø@200C/C	
11.	C1A	St.F. = (200X1050)	28Nos Ø20	(4Nos Of Set) 8Ø@200C/C	
		1st.F. = (200X900)	20Nos Ø20	(3Nos Of Set) 8Ø@200C/C	
		2nd.F. = (200X900)	6Nos Ø20 +14Nos Ø16		
		3rd.F. = (200X900)	6Nos Ø20 +14Nos Ø12		
		4th.F. = (200X900)	20Nos Ø12		
		5th.F. = (200X750)	16Nos Ø12		
12.	C1B	St.F. = (300X900)	20Nos Ø20+ 10Nos Ø12	(4Nos Of Set) 8Ø@200C/C	
		1st.F. = (200X750)	14Nos Ø20	(2Nos Of Set) 8Ø@200C/C	
		2nd.F. = (200X750)	14Nos Ø16		
		3rd.F. = (200X750)	14Nos Ø12		
		4th.F. = (200X600)	10Nos Ø12	8Ø@200C/C	
		5th.F. = (200X600)	10Nos Ø12		
13.	C1C	St.F. = (300X900)	20Nos Ø20	(3Nos Of Set) 8Ø@200C/C	
		1st.F. = -	-		
		2nd.F. = -	-		
		3rd.F. = -	-		
		4th.F. = -	-		
		5th.F. = -	-		
14.	C1D	St.F. = (300X750)	18Nos Ø20+ 8Nos Ø12	(4Nos Of Set) 8Ø@200C/C	
		1st.F. = (200X750)	18Nos Ø20	(3Nos Of Set) 8Ø@200C/C	
		2nd.F. = (200X750)	4Nos Ø20 +14Nos Ø16		
		3rd.F. = (200X750)	4Nos Ø20 +14Nos Ø12		
		4th.F. = (200X750)	18Nos Ø12		
		5th.F. = (200X600)	10Nos Ø12	8Ø@200C/C	

IMPORTANT NOTE :-

1. CONCRETING AT SITE SHALL BE STARTED ONLY AFTER VERIFYING ALL FABRICATION OF REINFORCEMENT BAR.
2. ALL REINFORCEMENT BARS SHALL BE FABRICATED AS PER THE STRUCTURAL DRAWINGS AND BBS PREPARED 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 DIRECTION 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 PLASTERING, BRICK WORK, CONCRETE WORK, FOUNDATION CONCRETE, SLAB & 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, DIG THE M-SAND AND SPRAY IT.
AFTER SPRAYING IF WE TAKE A PINCH OF M-SAND AND RUB IT BY FINGERS AND IF WE TAKE A PINCH ALSO IF WE TAKE A PINCH OF WETTED M-SAND ON OUR HAND ANY DUST PRESENCE WILL STICK ON TO OUR PALM OF OUR HAND.

S. P. S. INBARAJAN, M.E., (Struct)
Registered Structural Engineer
Grade-I (SE) in CMDA
Reg. No. SE/ASR-1/2024/02/009 dt. 27.02.2024
Grade-I (RSE) in Greater Chennai Corporation
Reg. No. RSE [illegible] dt. [illegible]
Door No.50, Kirupasankari Street,
West Mambalam, Chennai-600 033.

PROPOSED RESIDENTIAL BUILDING FOR M/S. SHREEROSH PROPERTIES AT ROYAPETAH, CHENNAI.

No:50, Kirupasankari Street, West Mambalam, Chennai - 600 033. Ph : 2465 46 03

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

BOURNA Consultants - Engineers

FOUNDATION DETAILS-I.

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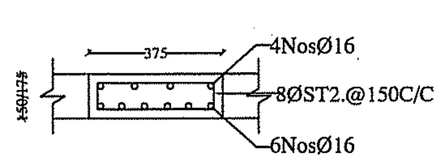
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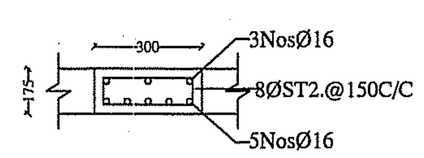
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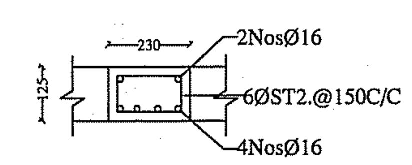
FIRST FLOOR ROOF SLAB LAYOUT



C.S. OF CB1 (375X175/150)



C.S. OF CB2 (300X175)



C.S. OF CB2 (230X125)

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.

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.

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.

COLUMN DETAILS 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.	FC1	1st.F. = (200X750)	14NosØ20	2Nos/Set 8Ø@200C/C	200 / 750 (1st.F) (2nd.F) (3rd.F)
		2nd.F. = (200X750)	14NosØ16		
		3rd.F. = (200X750)	14NosØ12		
		4th.F. = (200X600)	10NosØ12	8Ø@200C/C	200 / 600 (4th.F) (5th.F)
		5th.F. = (200X600)	10NosØ12		
2.	FC2	1st.F. = (200X750)	12NosØ20	2Nos/Set 8Ø@200C/C	200 / 600 (1st.F) (2nd.F) (3rd.F)
		2nd.F. = (200X750)	12NosØ16		
		3rd.F. = (200X750)	12NosØ12		
		4th.F. = (200X600)	10NosØ12	8Ø@200C/C	200 / 600 (4th.F) (5th.F)
		5th.F. = (200X600)	10NosØ12		
3.	FC3	1st.F. = (200X600)	10NosØ20	2Nos/Set 8Ø@200C/C	200 / 600 (1st.F) (2nd.F) (3rd.F)
		2nd.F. = (200X600)	10NosØ16	8Ø@200C/C	
		3rd.F. = (200X600)	10NosØ12		
		4th.F. = (200X600)	10NosØ12		200 / 600 (4th.F) (5th.F)
		5th.F. = (200X600)	10NosØ12		
4.	FC4	1st.F. = (200X200)	4NosØ16	8Ø@200C/C	200 / 200 (1st.F) (2nd.F) (3rd.F)
		2nd.F. = (200X200)	4NosØ16		
		3rd.F. = (200X200)	4NosØ16		
		4th.F. = (200X200)	4NosØ16		200 / 200 (4th.F) (5th.F)
		5th.F. = (200X200)	4NosØ16		

S. P. S. INBARAJAN, M.E., (Struct)
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Grade-I in CMDA
Reg. No. SE/GR-1/2024/02/009 dt. 27.02.2024
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Reg. No. RSE 1083/2024 Dt. 09.10.2024
Door No.50, Kirubasankari Street,
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S.P.S.Inbarajan, M.E., A.M.I.E.,
Structural Consultant

BOURNA
Consultants - Engineers

FIRST FLOOR ROOF SLAB LAYOUT.

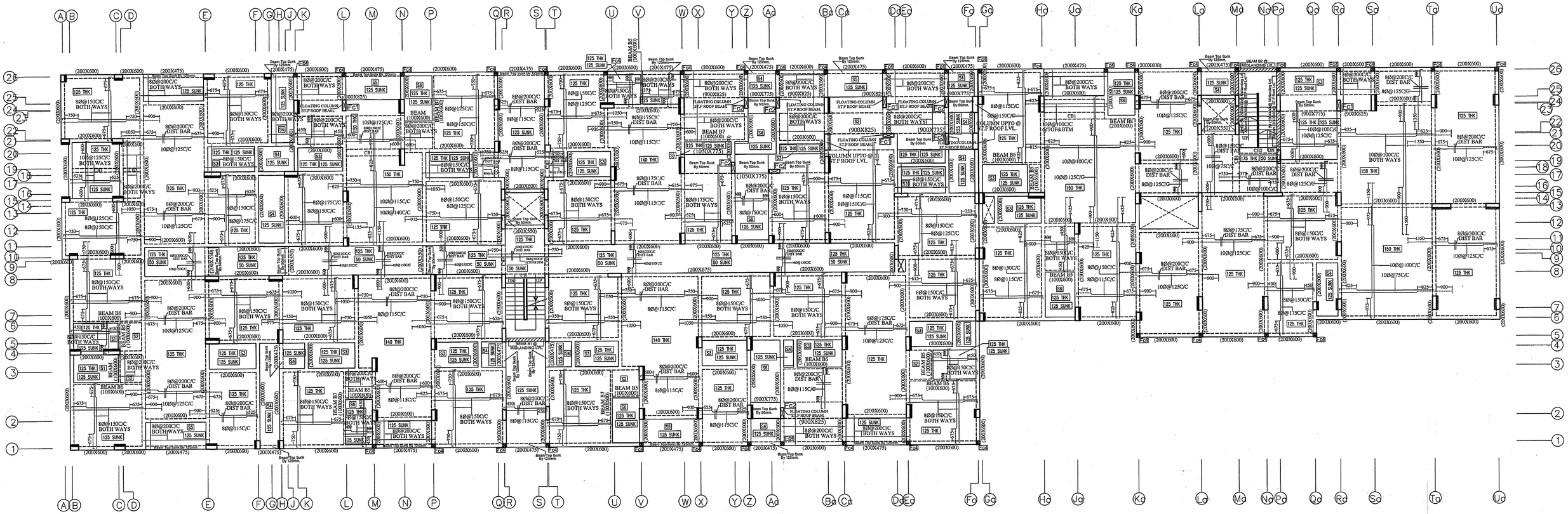
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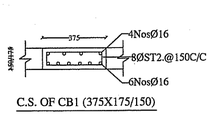
Dwg No... 11631 S -06

DSND : S.P.S.I
DRN : MANIGANDAN.D

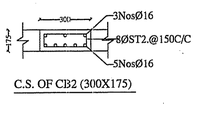
REV	DESCRIPTION	CHKD	DRN	DATE
R1	FIRST FLOOR ROOF SLAB REVISED	S.P.S.I	MANI.D	28.10.24



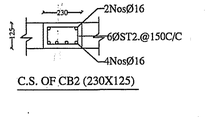
STILT FLOOR ROOF SLAB LAYOUT



C.S. OF CB1 (375X175/150)



C.S. OF CB2 (300X175)



C.S. OF CB2 (230X125)

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.

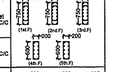
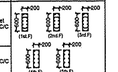
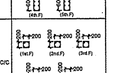
IMPORTANT NOTE FOR M-SAND :-

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 (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.

COLUMN DETAILS 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.	FC1	1st.F. = (200X750)	14Nos⌀20	2Nos/Set 8Ø@200C/C	
		2nd.F. = (200X750)	14Nos⌀16		
		3rd.F. = (200X750)	14Nos⌀12		
		4th.F. = (200X600)	10Nos⌀12	8Ø@200C/C	
		5th.F. = (200X600)	10Nos⌀12		
2.	FC2	1st.F. = (200X750)	12Nos⌀20	2Nos/Set 8Ø@200C/C	
		2nd.F. = (200X750)	12Nos⌀16		
		3rd.F. = (200X750)	12Nos⌀12		
		4th.F. = (200X600)	10Nos⌀12	8Ø@200C/C	
		5th.F. = (200X600)	10Nos⌀12		
3.	FC3	1st.F. = (200X600)	10Nos⌀20	2Nos/Set 8Ø@200C/C	
		2nd.F. = (200X600)	10Nos⌀16		
		3rd.F. = (200X600)	10Nos⌀12		
		4th.F. = (200X600)	10Nos⌀12	8Ø@200C/C	
		5th.F. = (200X600)	10Nos⌀12		
4.	FC4	1st.F. = (200X200)	4Nos⌀16	8Ø@200C/C	
		2nd.F. = (200X200)	4Nos⌀16		
		3rd.F. = (200X200)	4Nos⌀16		
		4th.F. = (200X200)	4Nos⌀16		
		5th.F. = (200X200)	4Nos⌀16		

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BOURNA
Consultants - Engineers

PROPOSED RESIDENTIAL BUILDING FOR M/S. SHREEROSH PROPERTIES
AT ROYAPETAH, CHENNAI.

GROUND FLOOR ROOF SLAB LAYOUT.

DATE: 07 :05: 2024 | SCALE:1:25 , 1:50

ARCHITECT:

Dwg No...
11631
S -05

DSND : S.P.S.I

DRN : MANIGANDAN.D

REV	DESCRIPTION	CHKD	DRN	DATE
R1	STILT FLOOR ROOF SLAB REVISED	S.P.S.I	MANI.D	28.10.24



our services doesn't just end there

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Compliance & Special Services

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empowering your real estate decisions with smart tools

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