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RE REGULATORY RECORD

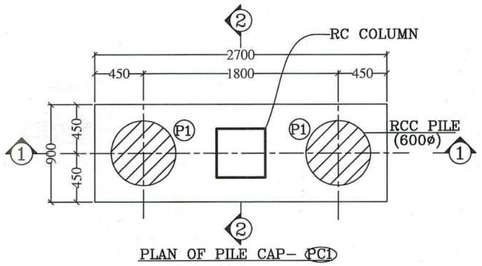
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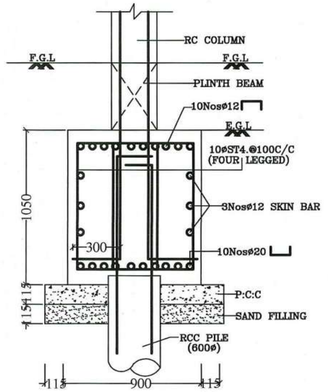
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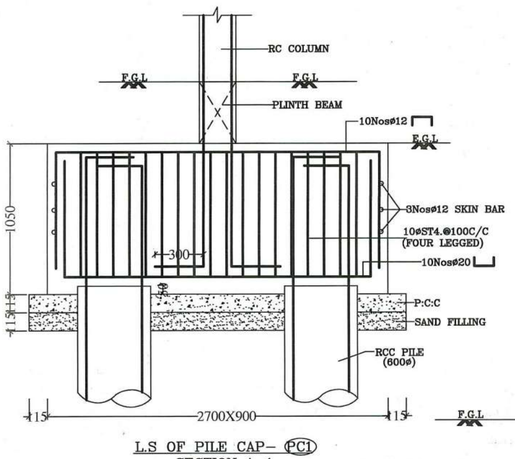
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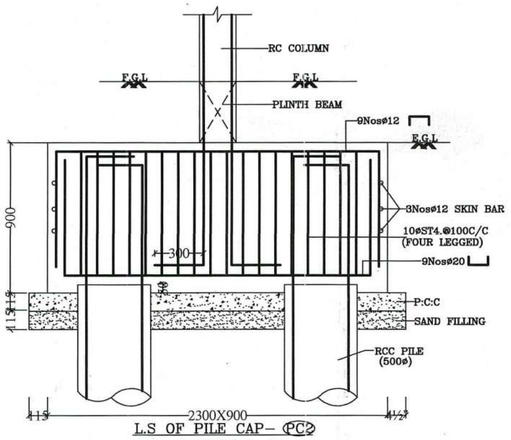
PLAN OF PILE CAP– PC1



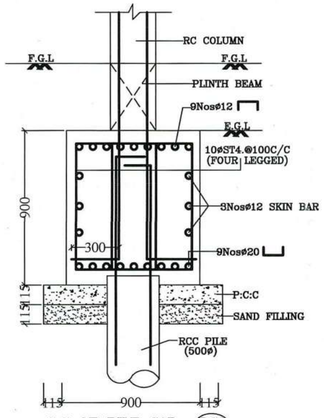
C.S OF PILE CAP– PC1
SECTION 2–2



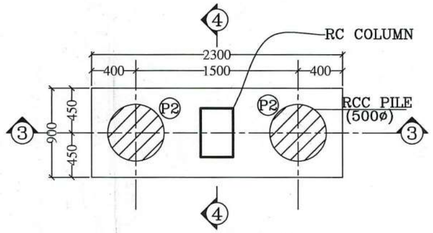
L.S OF PILE CAP– PC1
SECTION 1–1



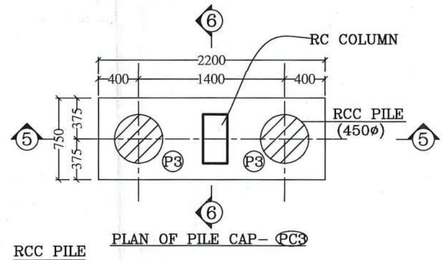
L.S OF PILE CAP– PC2
SECTION 3–3



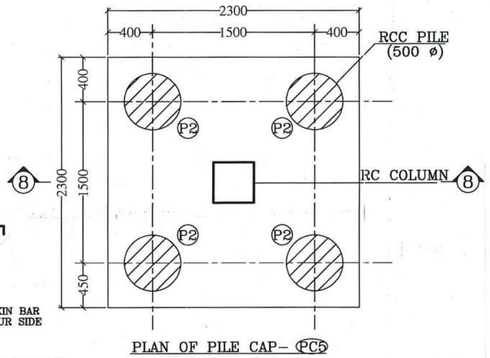
C.S OF PILE CAP– PC2
SECTION 4–4



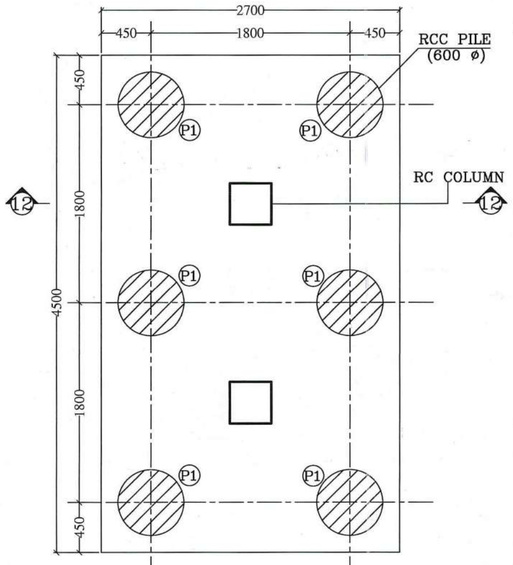
PLAN OF PILE CAP– PC2



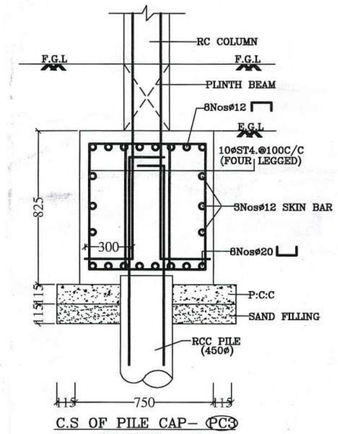
PLAN OF PILE CAP– PC3



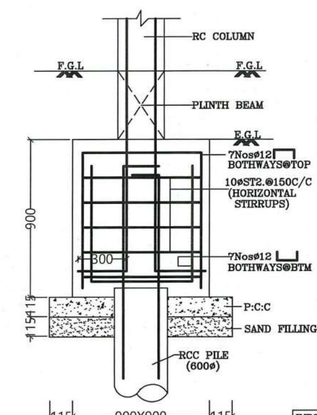
PLAN OF PILE CAP– PC5



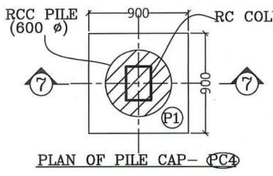
PLAN OF PILE CAP– PC10



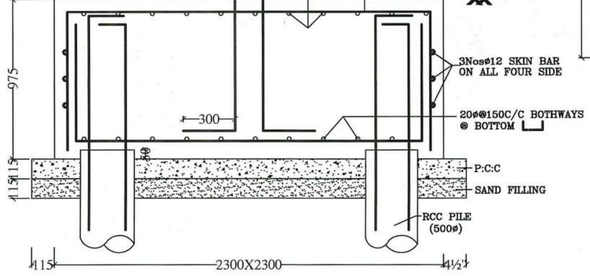
C.S OF PILE CAP– PC3
SECTION 6–6



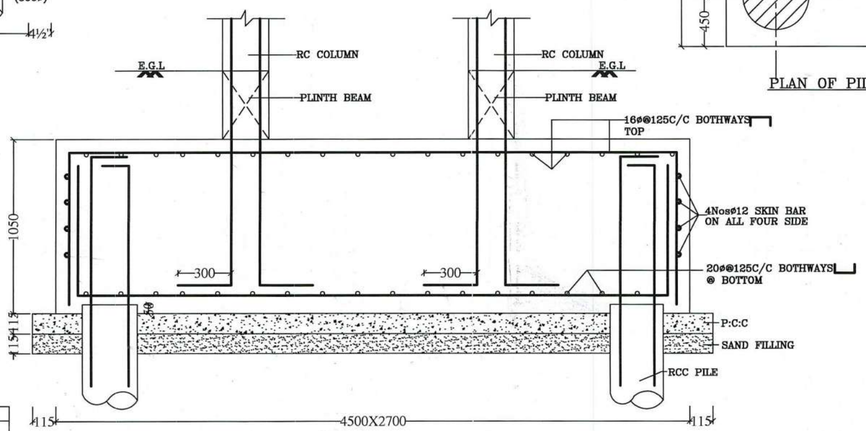
L.S OF PILE CAP– PC4
SECTION 7–7



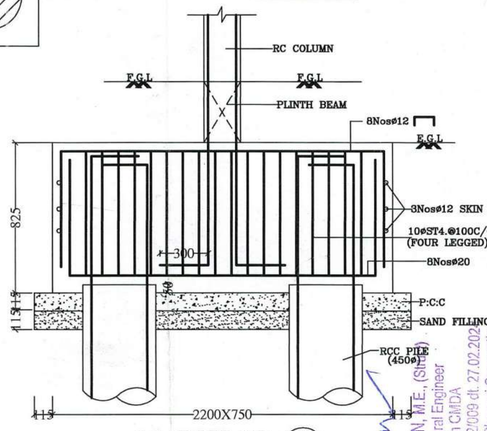
PLAN OF PILE CAP– PC4



L.S OF PILE CAP– PC5
SECTION 8–8



L.S OF PILE CAP– PC10
SECTION 12–12



L.S OF PILE CAP– PC3
SECTION 5–5

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 MITER OF READY MIX CONCRETE.
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3. TIME DURATION INCLUDES FROM THE TIME OF WATER ADDING IN THE BATCHING PLANT (Le) TIME OF LORRY DEPARTURE FROM PLANT, TRAVEL TIME, PUMP CONNECTING TIME , PUMPING AND LAYING OF CONCRETE ON FORM WORK.
4. AFTER 60 MINUTES TO 90 MINUTES ON LAYING OF CONCRETE SOME HAIRLINE / MINOR SHRINKAGE CRACKS WILL DEVELOP ON THE TOP SURFACE OF THE CONCRETE. TO RECTIFY THIS, POUR THICK CEMENT SLURRY, FILL IT AND PACK IT WITH BROOM.
5. THE CONCRETE TOP SURFACE SHOULD BE SPRAYED WITH WATER TO START CURING AFTER 120 MINUTES TO 150 MINUTES FROM THE TIME OF CONCRETE LAYING.
6. START CURING WITH STORING WATER ON TOP OF CONCRETE AFTER 240 MINUTES TO 300 MINUTES FROM THE TIME OF CONCRETE LAYING.
7. READY MIX CONCRETE IS NOT ADVISED FOR PILE AND COLUMN CONCRETING.

IMPORTANT NOTE :-

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

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

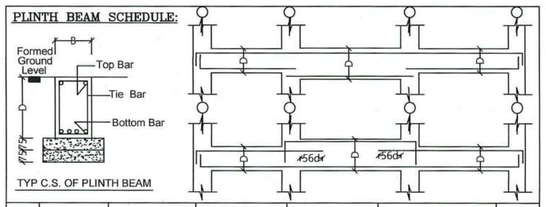
FOUNDATION DETAILS-II.

Dwg No... 11631 S -03
DSND : S.P.S.I
DRN : SENTHILR
DATE: 16 :04: 2024
SCALE:1:25 , 1:50
ARCHITECT:

No:50, Kirupanankari 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

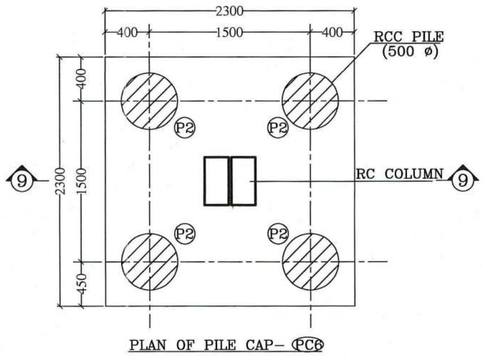
S. P. S. INBARAJAN, M.E., (SE)
Registered Structural Engineer
Grade-I (SE) in CMDA
Reg. No. SE/CR /12/2021/2109 dt. 27.02.2021
Grade-I (RSE) in Greater Chennai Corporation
Reg. No. RSE/ 000302/2024 Dt. 09.10.2024
Door No.50, Kirupanankari Street,
West Mambalam, Chennai-600 033.

PLINTH BEAM SCHEDULE:

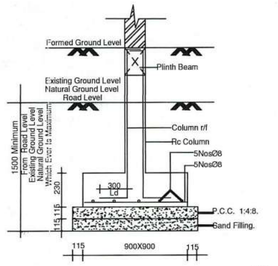


TYP C.S. OF PLINTH BEAM

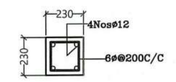
SL. No.	Name Of Plinth Beam	Plinth Beam Size (BXD)	Plinth Beam Top Bar	Plinth Beam Bottom Bar	Plinth Beam Tie	
1.	PB1	(200X450)	3NosØ16	3NosØ16+ 2NosØ16	10ØST2.@175C/C	Formed Ground Level
2.	PB2	(200X450)	2NosØ16	3NosØ16+ 2NosØ16	8ØST2.@115C/C(End 1/3rd Span) 8ØST2.@230C/C(Mid 1/3rd Span) 8ØST2.@115C/C(End 1/3rd Span)	
3.	PB3	(200X450)	2NosØ16	3NosØ16+ 3NosØ12	10ØST2.@200C/C	
4.	PB4	(200X450)	2NosØ16	3NosØ16+ 2NosØ12	8ØST2.@200C/C	
5.	PB5	(200X450)	2NosØ12	2NosØ16	8ØST2.@200C/C	
6.	PB6	(200X450)	2NosØ16	3NosØ16	8ØST2.@200C/C	
7.	PB7	(200X450)	2NosØ16	2NosØ16+ 1NosØ12	8ØST2.@200C/C	
8.	PB8	(200X450)	2NosØ12	2NosØ12+ 1NosØ16	8ØST2.@250C/C	
9.	PB9	(200X450)	2NosØ12	3NosØ12	8ØST2.@250C/C	
10.	PB10	(200X450)	2NosØ12	2NosØ12	8ØST2.@250C/C	
11.	PB11	(200X450)	2NosØ12	2NosØ12	8ØST2.@250C/C	



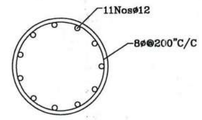
PLAN OF PILE CAP– PC6



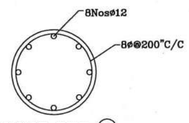
TYP. C.S. OF R.C STUB COLUMN FOOTING (SC) CONCENTRIC



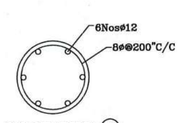
C.S. OF STUB COLUMN (SC)



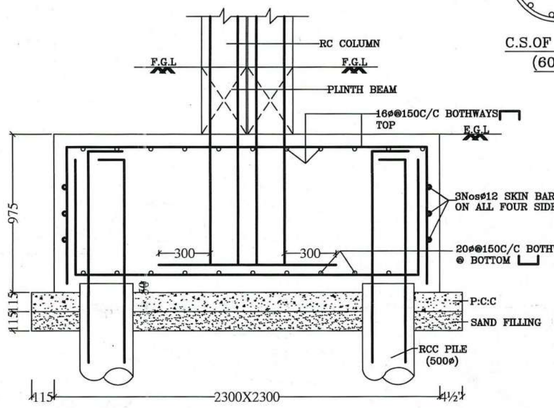
C.S.OF PILE (P1) (600ø)



C.S.OF PILE (P2) (500ø)



C.S.OF PILE (P3) (450ø)



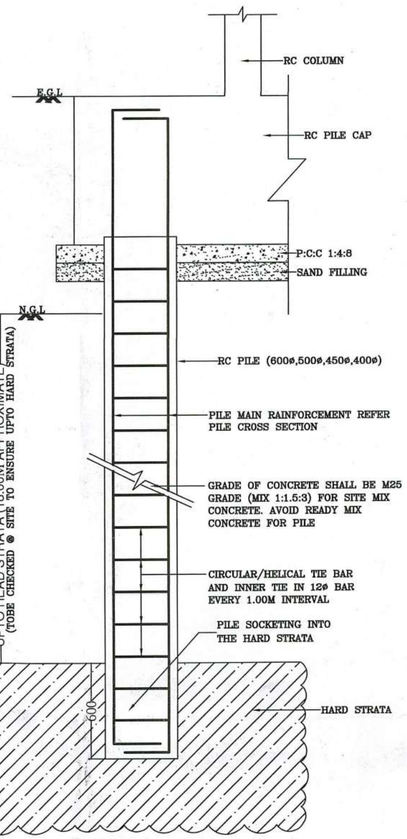
L.S OF PILE CAP– PC6
SECTION 9–9

PILE NOTES :–

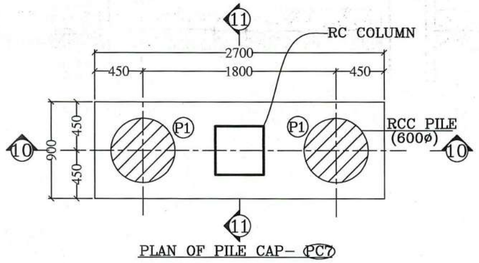
BORED CAST IN SITU END BEARING DRIVEN PILE BY DIRECT MUD CIRCULATION METHOD (DMC).
BORING TERMINATED AT A DEPTH WHERE 'N' VALUE IN SPT TEST IS MORE THAN 100 FOR MULTI STOREY BUILDING (HEIGHT EXCEEDING 15.0 METER) AND 50 FOR OTHER BUILDING (HEIGHT LESSTHEN 15.0 METER) AND AN EXTRA PENETRATION FOR MINIMUM 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 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:

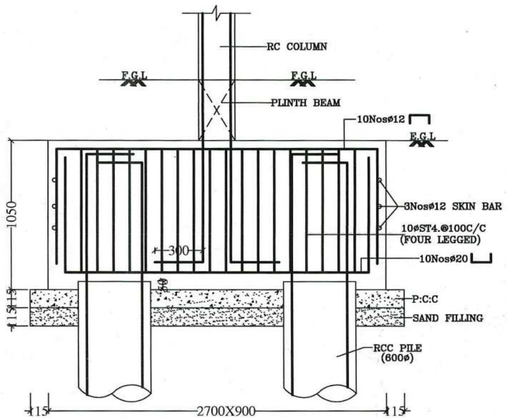
AFTER COMPLETION OF PILE BORING FLUSH. THE BORE INITIALLY AND THEN PLACE THE PILE REINFORCEMENT CAGE INSIDE THE PILE BORE. PLACE THE TREMIE PIPE INSIDE THE REINFORCEMENT CAGE UP TO THE BOTTOM LEVEL OF BORE THEN START THE CONCRETING OF PILE THROUGH THE TREMIE PIPE. MAINTAIN ALWAYS TREMIE PIPE FOR A LENGTH 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



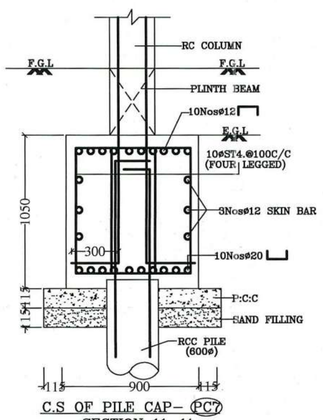
TYPICAL VERTICAL THROUGH PILE



PLAN OF PILE CAP– PC7



L.S OF PILE CAP– PC7
SECTION 10–10



C.S OF PILE CAP– PC7
SECTION 11–11

IMPORTANT NOTE FOR M–SAND :–

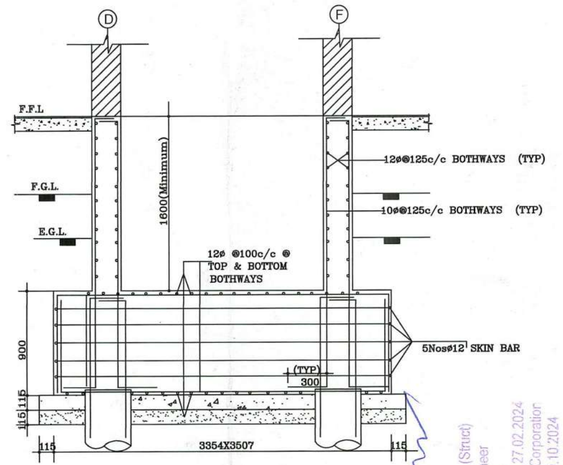
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M-SAND SHOULD BE FREE FROM DUST AT SITE AT THE TIME OF USING FOR CONCRETE.
TO CHECK THE M-SAND FOR DUST CONTENT, DRY THE M-SAND AND SPRAY IT AT CERTAIN HEIGHT LEVEL, IF ANY DUST PRESENCE WILL FLY ON THE AIR. ALSO IF WE TAKE A PINCH ALSO IF WE TAKE A PINCH OF DRIED M-SAND ON OUR HAND ANY DUST PRESENCE WILL STICK ON TO OUR PALM OF OUR HAND.

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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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SECTION A-A

					R1	REV
					DRAWING REVISED	DESCRIPTION
					S.P.S.I	CHKD
					SENTHILR	DRN
					14.02.25	DATE

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

FOUNDATION DETAILS-III.

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

Dwg No... 11631 S -04

DSND : S.P.S.I
DRN : SENTHILR

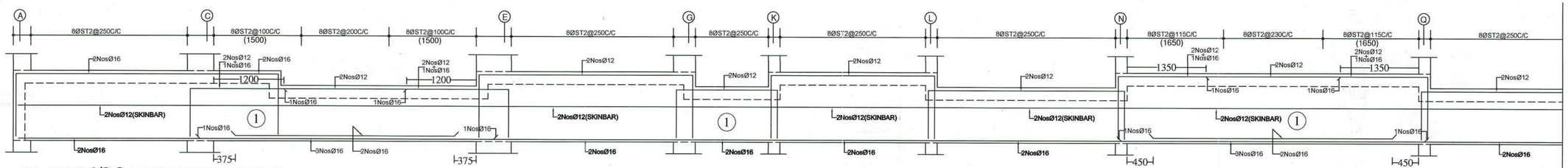
ARCHITECT:

BOURNA
Consultants - Engineers

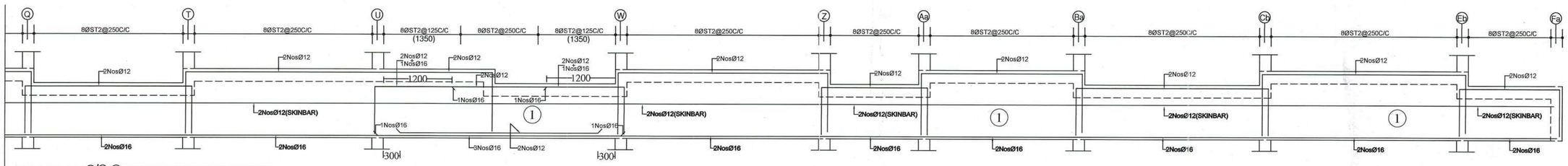
No:50, Kirupasankari Street, West Mambalam, Chennai - 600 033. PH : 2485 46 03

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

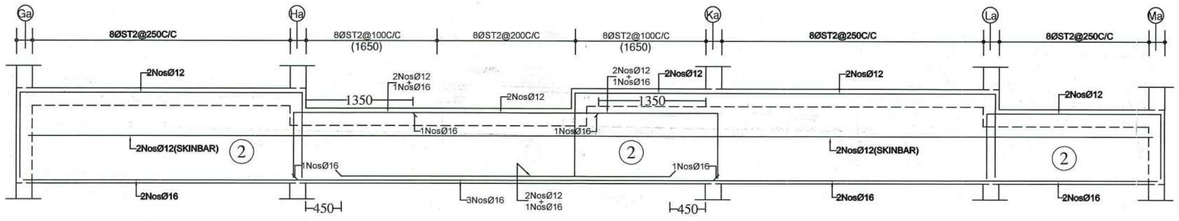
S. P. S. INBARAJAN, M.E., (Struct)
Registered Structural Engineer
Grade-I (SE) in CMDA
Reg. No. SE/GR-I/2024/02/098 dt. 27.02.2024
Grade-I (RSE) in Greater Chennai Corporation
Reg. No. RSE/000302024 Dt. 09.10.2024
Door No.50, Kirupasankari Street,
West Mambalam, Chennai-600 033



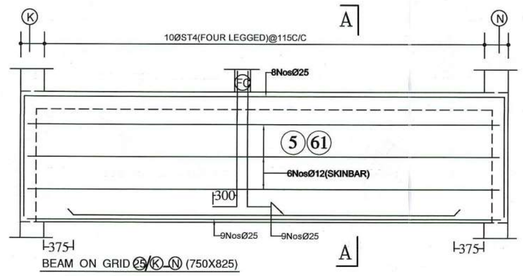
BEAM ON GRID 26/A-Fa (200X600)(200X475)(200X600)(200X475)



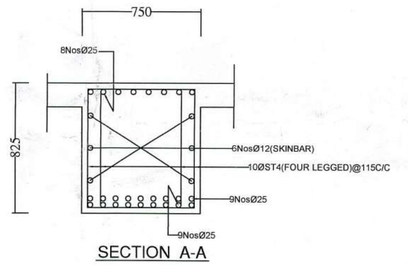
BEAM ON GRID 26/A-Fa (200X600)(200X475)(200X600)(200X475)



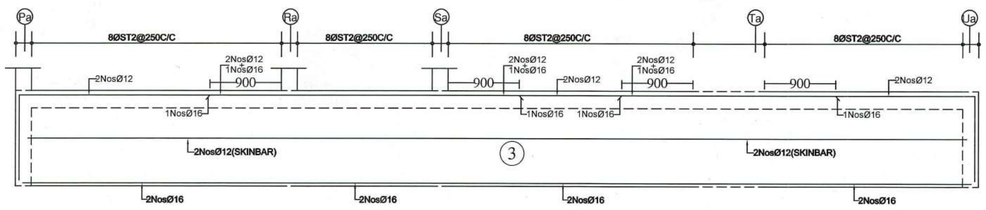
BEAM ON GRID 25/Ga-Ma (200X600)(200X475)(200X600)(200X475)



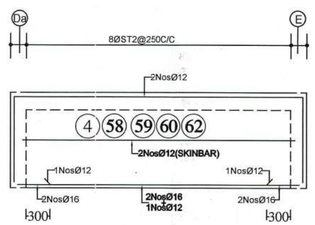
BEAM ON GRID 25/K-N (750X825)



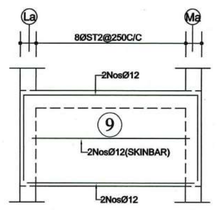
SECTION A-A



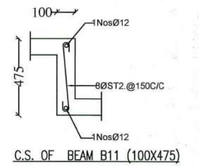
BEAM ON GRID 26/Pa-Ua (200X600)



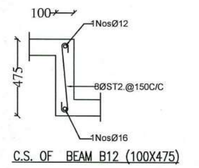
BEAM ON GRID 25/Da-E (200X600)



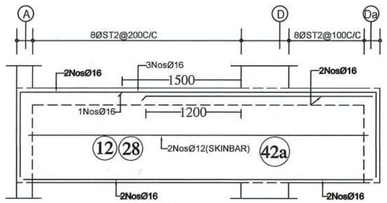
BEAM ON GRID 25/La-Ma (200X600)



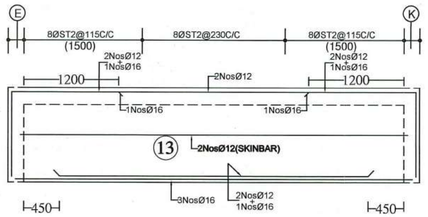
C.S. OF BEAM B11 (100X475)



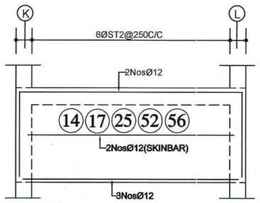
C.S. OF BEAM B12 (100X475)



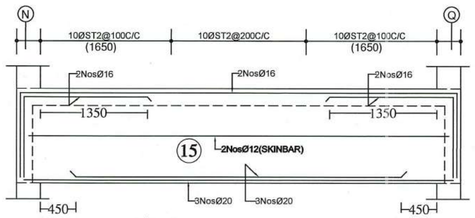
BEAM ON GRID 21/A-Da (200X600)



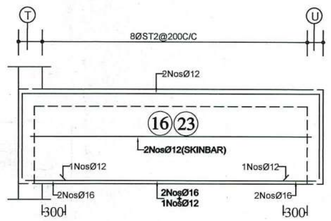
BEAM ON GRID 20a/E-K (200X600)



BEAM ON GRID 20/K-L (200X600)



BEAM ON GRID 20/N-O (200X600)



BEAM ON GRID 20/T-U (200X600)

PROPOSED RESIDENTIAL BUILDING FOR M/S. SHREEROSH PROPERTIES AT ROYAPET'AH, CHENNAI.

STILT FLOOR ROOF BEAM DETAILS - I

Dwg No... 11631 S -07

SCALE:1:25 , 1:50

DATE: 20 .03. 2025

DSNR : S.P.S.I

DRN : MANIGANDAN.D

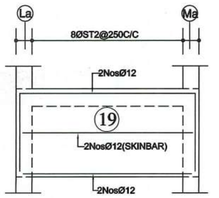
ARCHITECT:

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

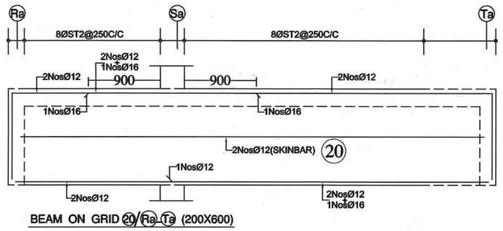
S.P.S. Inbarajan, M.E., M.I.E., Structural Consultant

BOURNA Consultants - Engineers

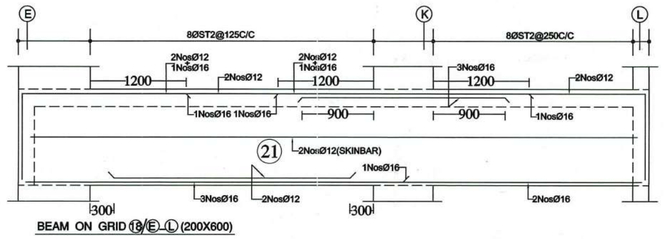
S. P. S. INBARAJAN, M.E., M.I.E.
Registered Structural Engineer
Grade I (SE) in CMDA
Reg. No. SE/GR-I/2024/02/2009 dt. 27.02.2024
Grade I (RSE) in Greater Chennai Corporation
Reg. No. RSE/GR-I/2024/2024 Dt. 09.10.2024
Door No.50, Krupasankari Street,
West Mambalam, Chennai-600 033.



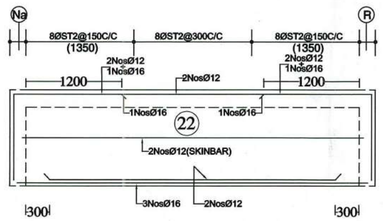
BEAM ON GRID 25/La-Ma (200X600)



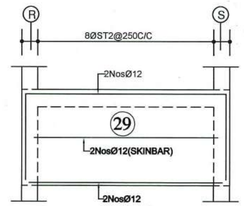
BEAM ON GRID 20/Ra-Ta (200X600)



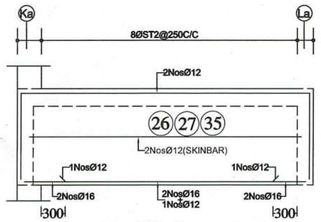
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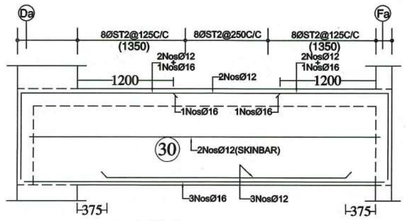
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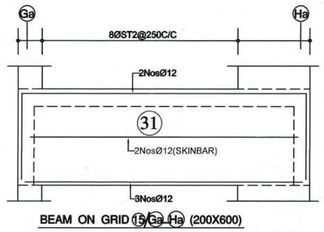
BEAM ON GRID 16/R-S (200X600)



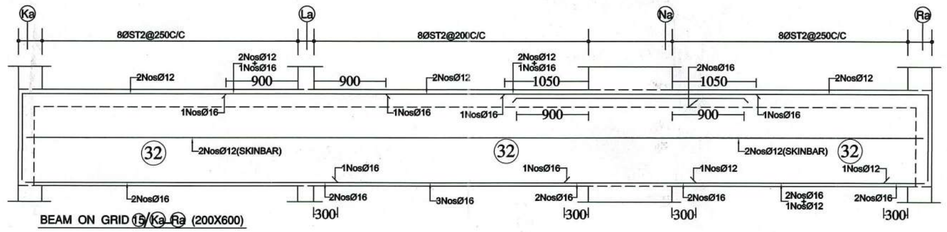
BEAM ON GRID 19/Ka-La (200X600)



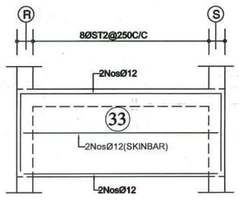
BEAM ON GRID 15/Da-Fa (200X600)



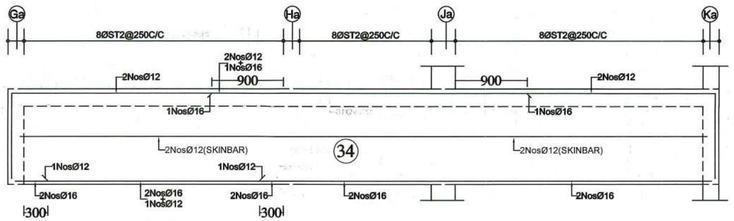
BEAM ON GRID 15/Ga-Ha (200X600)



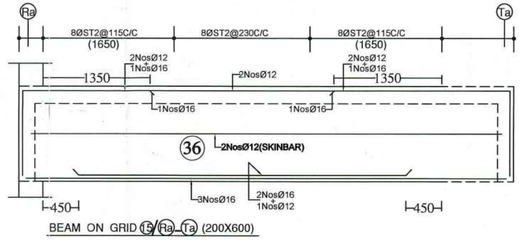
BEAM ON GRID 15/Ka-Ra (200X600)



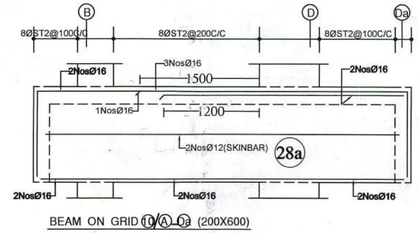
BEAM ON GRID 12/R-S (200X550)



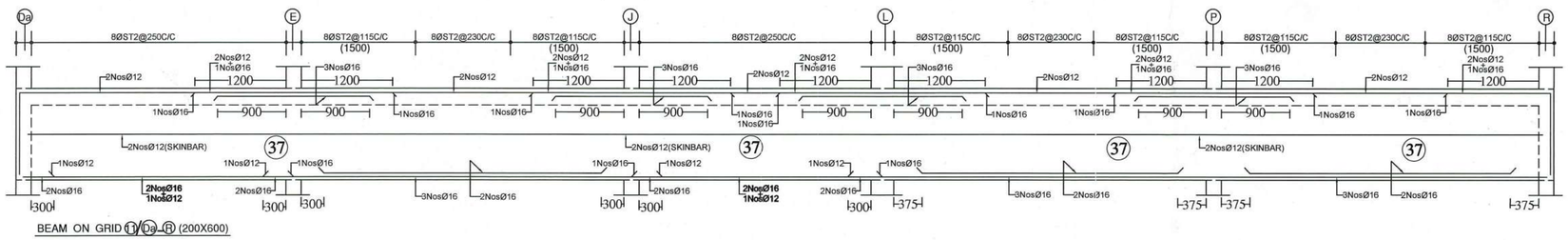
BEAM ON GRID 12/Ga-Ka (200X600)



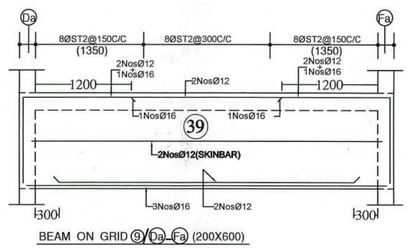
BEAM ON GRID 5/Ra-Ta (200X600)



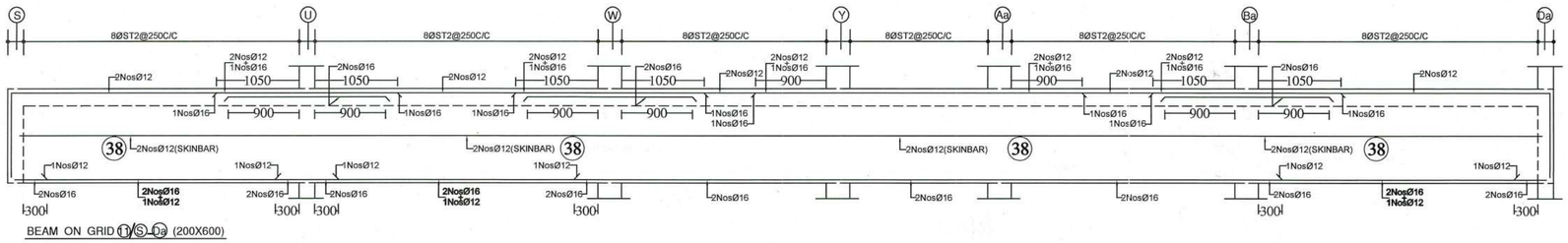
BEAM ON GRID 10/A-Da (200X600)



BEAM ON GRID 11/Da-R (200X600)



BEAM ON GRID 9/Da-Fa (200X600)



BEAM ON GRID 11/S-Da (200X600)

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

STILT FLOOR ROOF BEAM DETAILS - II

DATE: 20 :03: 2025 | SCALE:1:25 , 1:50 | Dwg No... 11631 S -08

ARCHITECT:

DSN'D : S.P.S.I

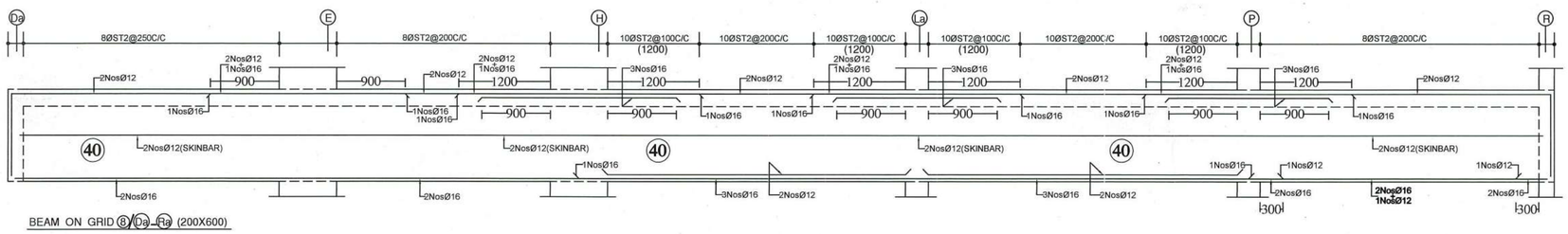
DRN : MANIGANDAN.D

BOURNA
Consultants - Engineers

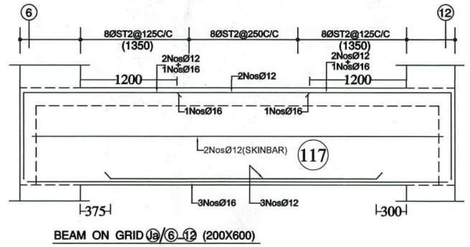
No:50, Kirupasankari Street, West Mambalam, Chennai - 600 033. Ph : 2485 48 03

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

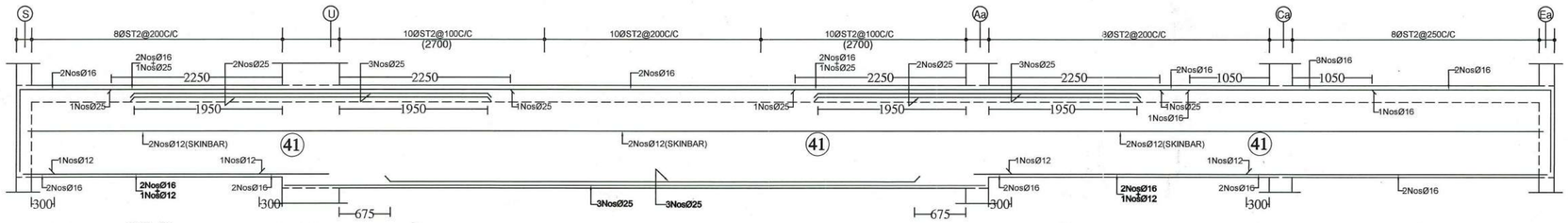
S. P. S. INBARAJAN, M.E., (Struct)
Registered Structural Engineer
Grade-I (FE) in CMDA
Reg. No. SE/GR-1/2024/02/2009 dt. 27.02.2024
Grade-I (RSE) in Greater Chennai Corporation
Reg. No. RSE 1001/2024 Dt. 09.10.2024
Door No.50, Kirupasankari Street
West Mambalam, Chennai



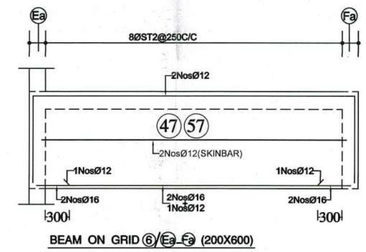
BEAM ON GRID ⑧/(Da)-(Ra) (200X600)



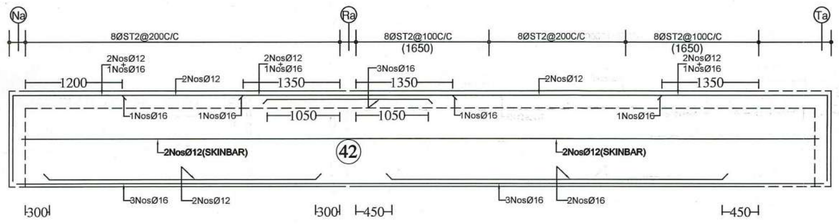
BEAM ON GRID (Ja)/⑥-⑫ (200X600)



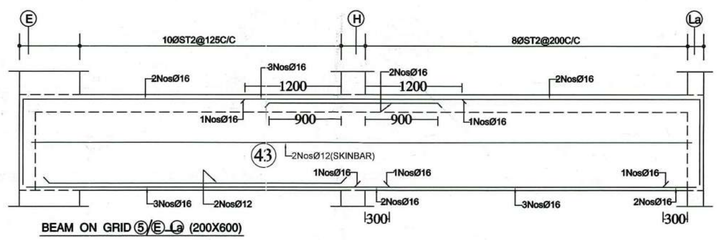
BEAM ON GRID ⑧/(S)-(Ea) (200X600)(200X675)(200X600)



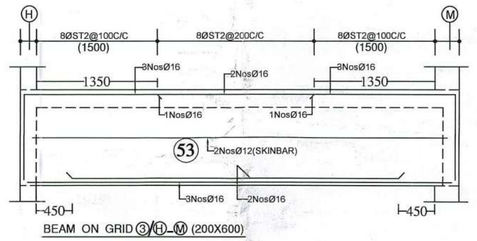
BEAM ON GRID ⑥/(Ea)-(Fa) (200X600)



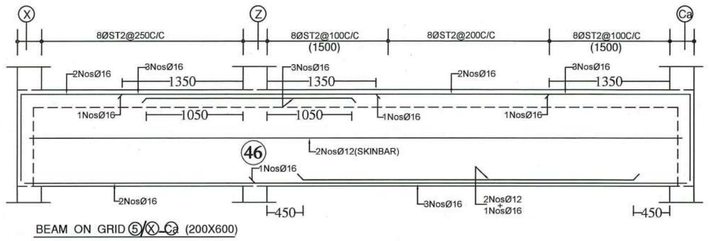
BEAM ON GRID (Ra)/(Na)-(Ta) (200X600)



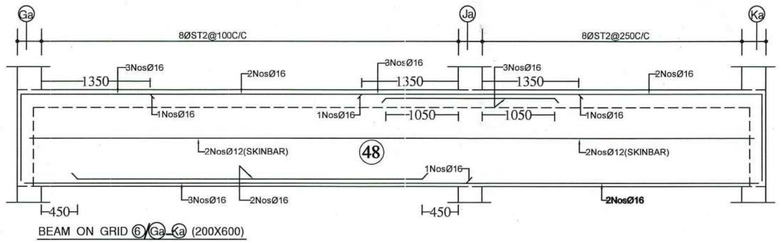
BEAM ON GRID ⑤/(E)-(La) (200X600)



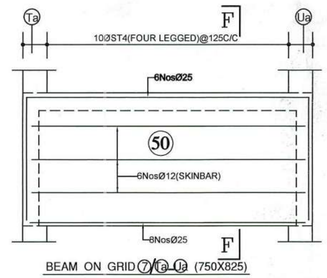
BEAM ON GRID ③/(H)-(M) (200X600)



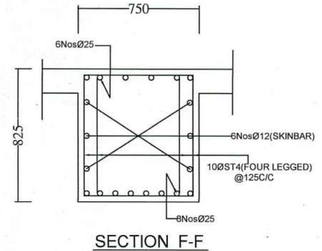
BEAM ON GRID ⑤/(X)-(Ca) (200X600)



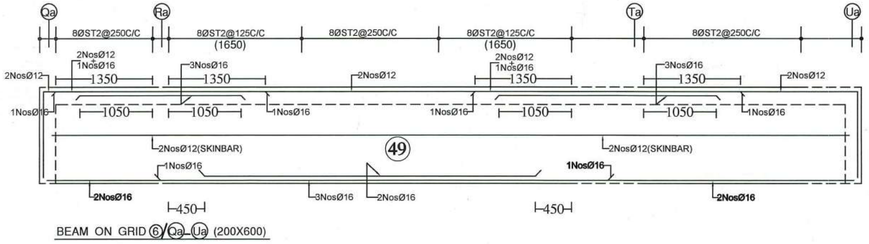
BEAM ON GRID ⑥/(Ga)-(Ka) (200X600)



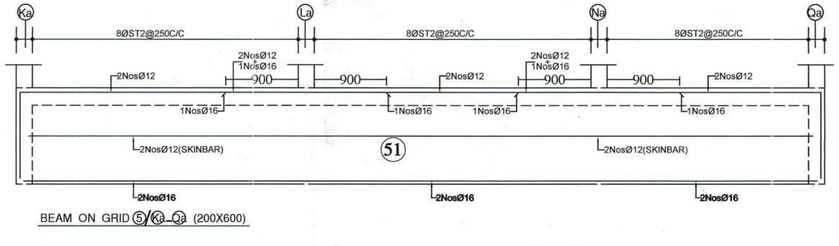
BEAM ON GRID ⑦/(Ta)-(Ua) (750X825)



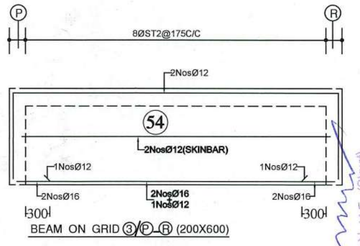
SECTION F-F



BEAM ON GRID ⑥/(Qa)-(Ua) (200X600)



BEAM ON GRID ⑤/(Ka)-(Qa) (200X600)



BEAM ON GRID ③/(P)-(R) (200X600)

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

STILT FLOOR ROOF
BEAM DETAILS - III

Dwg No... 11631 S-09

DATE: 20-03-2025 | SCALE:1:25 , 1:50

ARCHITECT:

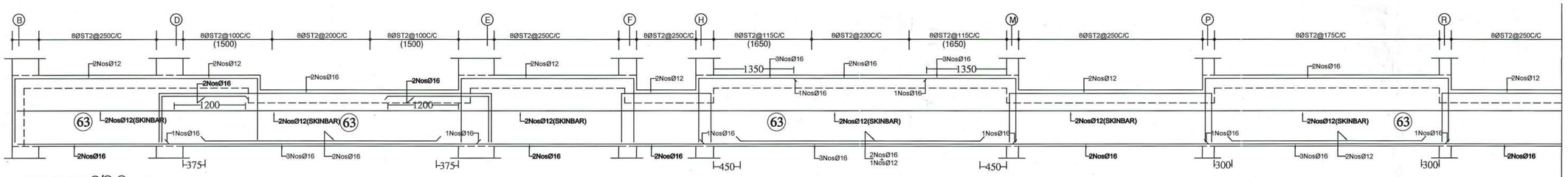
DSNR : S.P.S.I

DRN : MANGANDAN.D

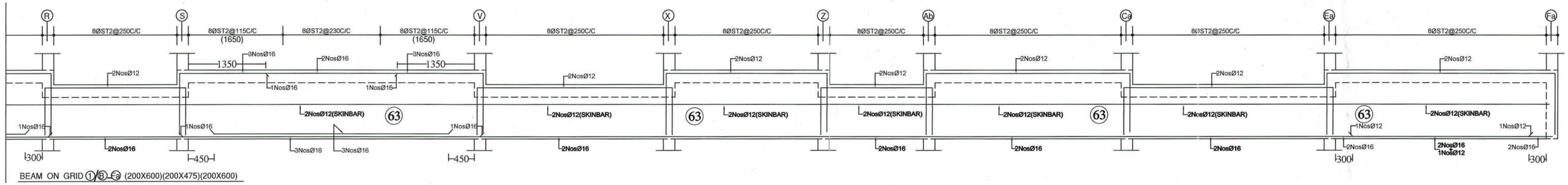
BOURNA
Consultants - Engineers

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

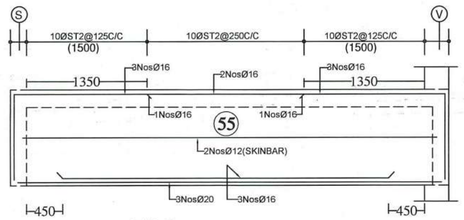
S. P. S. INBARAJAN, M.E., (Struct)
Registered Structural Engineer
Grade-I (SE) in CMDA
Reg. No. SE/G-1/9910/2008 dt. 27.02.2024
Grade-I (RSE) in Greater Chennai Corporation
Reg. No. RSE/G-1/3922/2024 dt. 01.03.2024
Door No.50, Kirupasankari Street,
West Mambalam, Chennai-600 033.



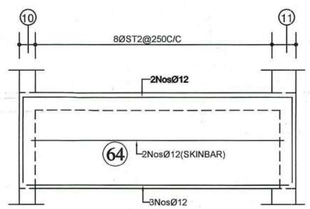
BEAM ON GRID Ⓐ/Ⓑ-Ea (200X600)(200X475)(200X600)



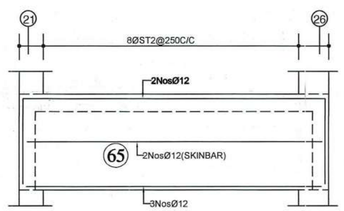
BEAM ON GRID Ⓐ/Ⓑ-Ea (200X600)(200X475)(200X600)



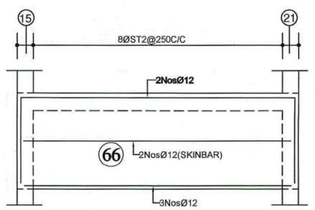
BEAM ON GRID Ⓢ/Ⓢ-Ⓥ (200X600)



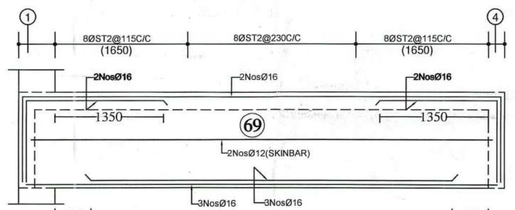
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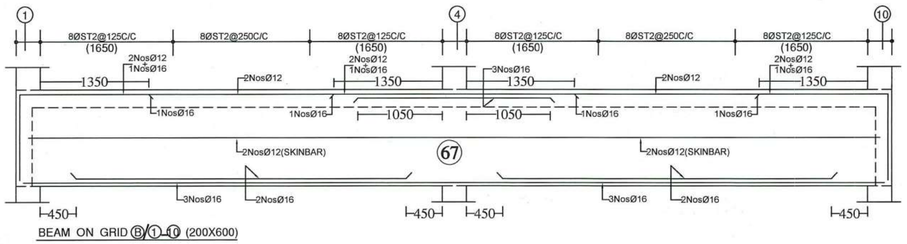
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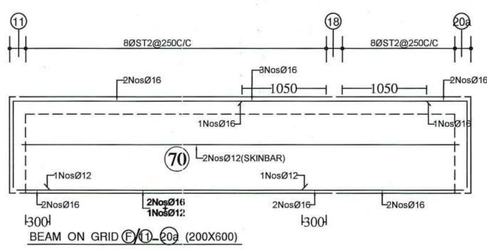
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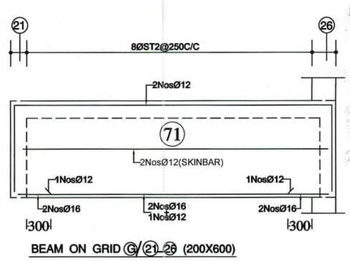
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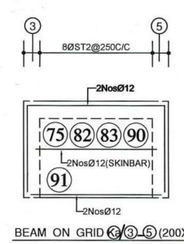
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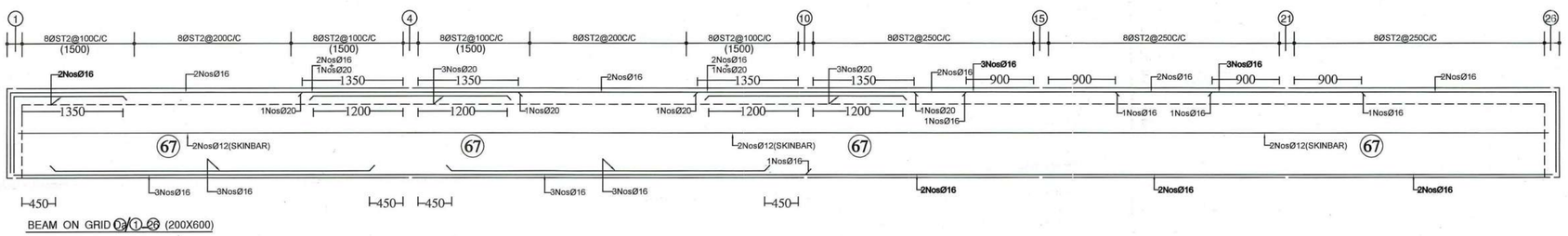
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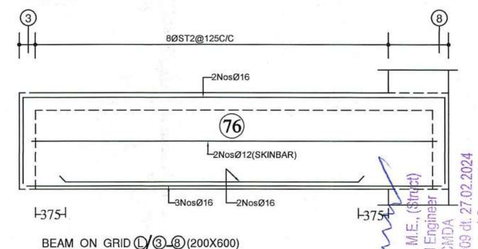
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BEAM ON GRID Ⓚ/③-⑤ (200X600)



BEAM ON GRID Ⓐ/①-㉓ (200X600)



BEAM ON GRID Ⓛ/③-⑧ (200X600)

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

STILT FLOOR ROOF BEAM DETAILS - IV

Dwg No... 11631 S-10

DATE: 20.05.2025 SCALE:1:25 , 1:50

ARCHITECT:

DSND : S.P.S.I

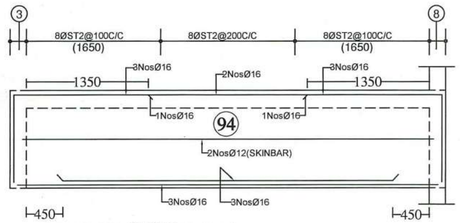
DRN : MANOHARAN.D

BOURNA Consultants - Engineers

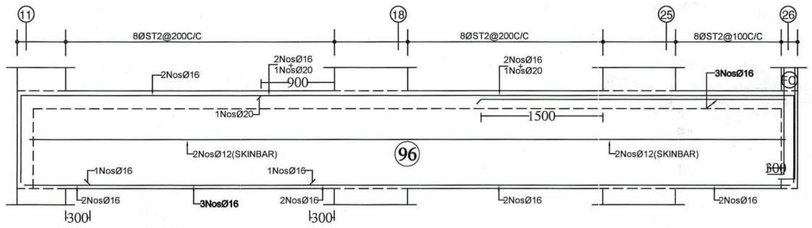
No:50, Kirupasankari Street, West Mambalam, Chennai - 600 033. PH : 2485 46 03

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

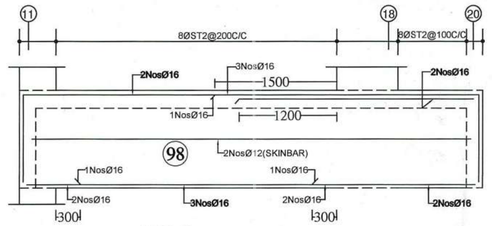
S. P. S. INBARAJAN, M.E., (Struct)
Registered Structural Engineer
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Reg. No. SE/GR-1/2247/2008 dt. 27.02.2024
Grade-I (RSE) in Greater Chennai Corporation
Reg. No. RSE 100/2024 Dt. 09.10.2024
Door No.50, Kirupasankari Street,
West Mambalam, Chennai-600 033.



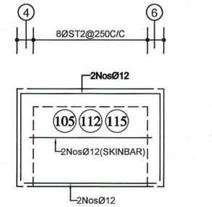
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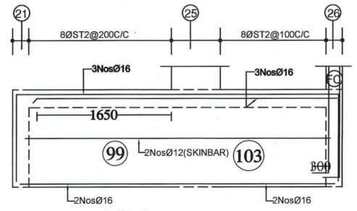
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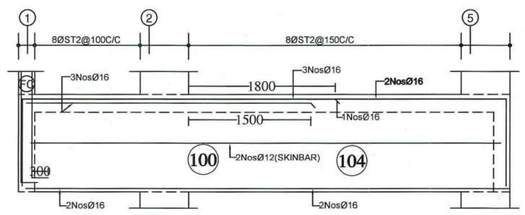
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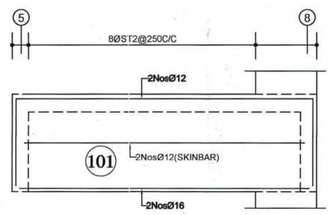
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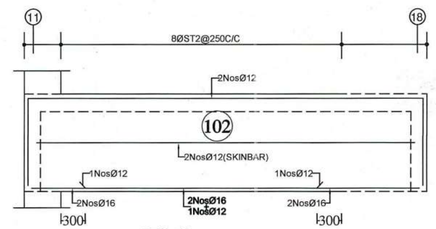
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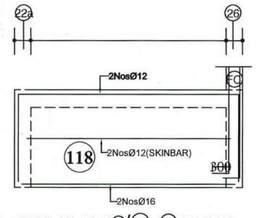
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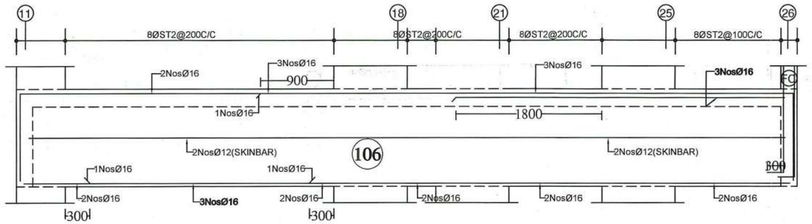
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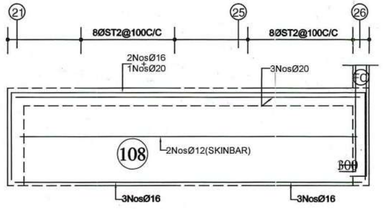
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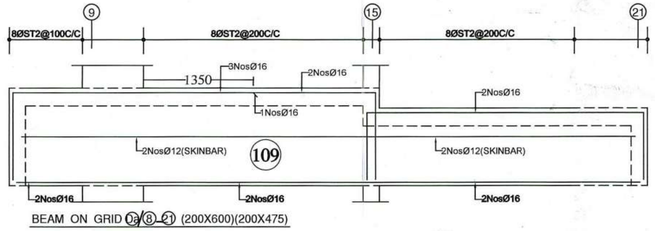
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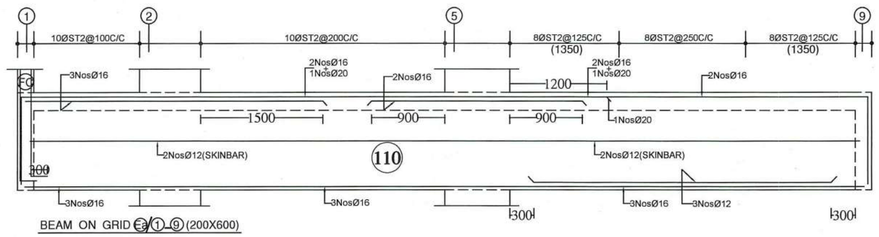
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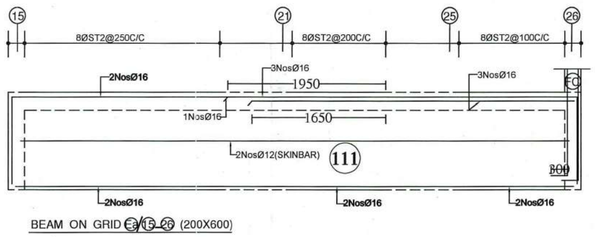
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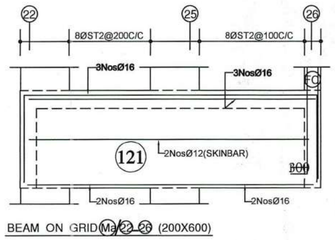
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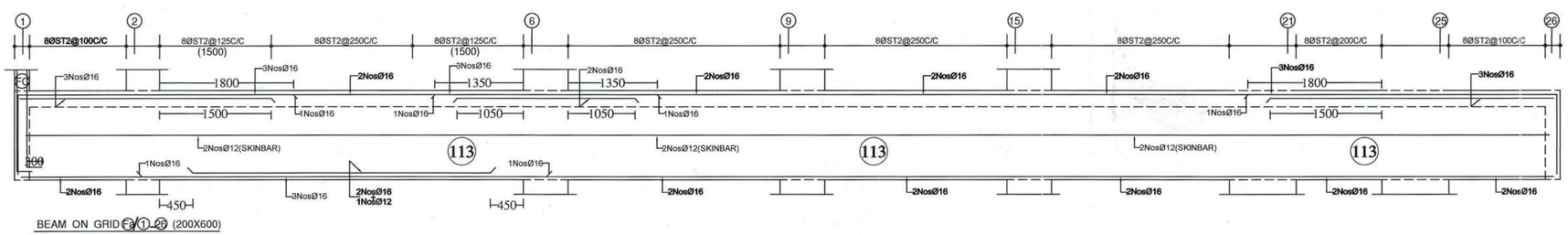
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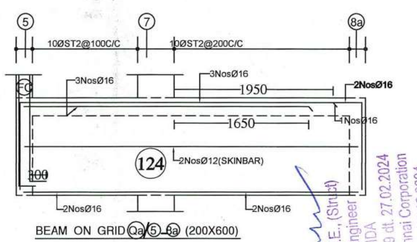
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BEAM ON GRID Ⓜ/㉒-㉖ (200X600)



BEAM ON GRID Ⓔ/①-㉖ (200X600)



BEAM ON GRID Ⓐ/⑤-⑧a (200X600)

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

STILT FLOOR ROOF BEAM DETAILS - VI

Dwg No... 11631 S-12

SCALE:1:25 , 1:50

DATE: 20 -03- 2025

ARCHITECT:

DSNR : S.P.S.J

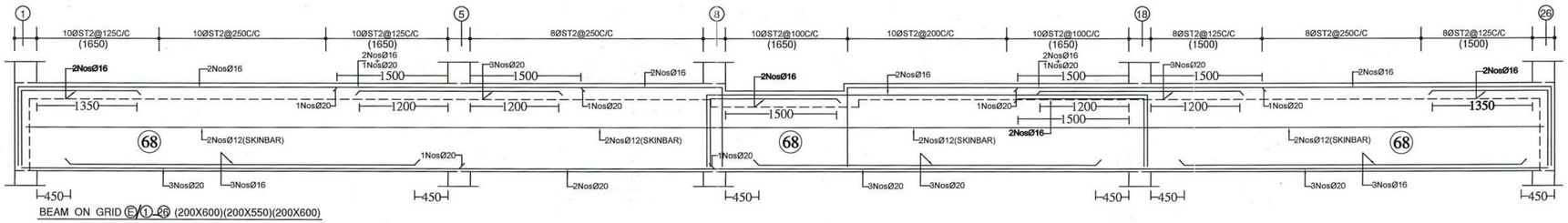
DRN : MANIGANDAN.D

BOURNA Consultants - Engineers

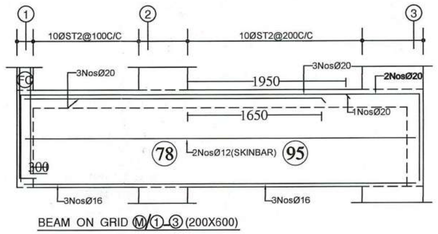
No:50, Kirupasankari Street, West Mambalam, Chennai - 600 033. Ph : 2489 49 03

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

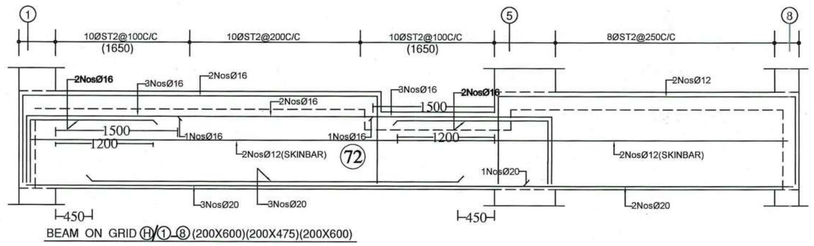
S. P. S. INBARAJAN, M.E., (Struct)
Registered Structural Engineer
Grade-I (SE) in CMDA
Reg. No. SE/GR-I/1024/2009 dt. 27.02.2024
Grade-I (RSE) in Greater Chennai Corporation
Reg. No. RSE 1/1009/2024 Dt. 09.10.2024
Door No.50, Kirupasankari Street,
West Mambalam, Chennai 600 033.



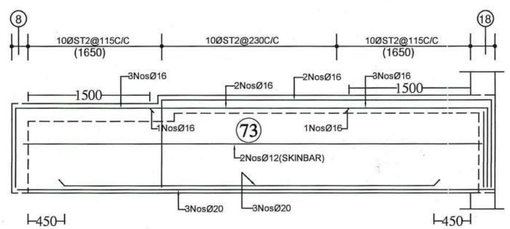
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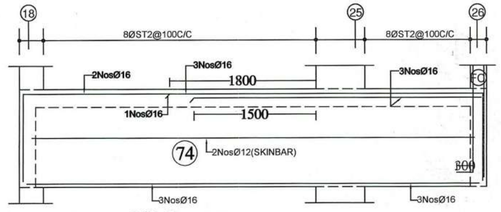
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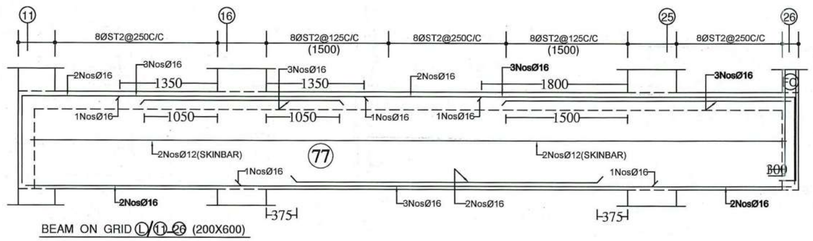
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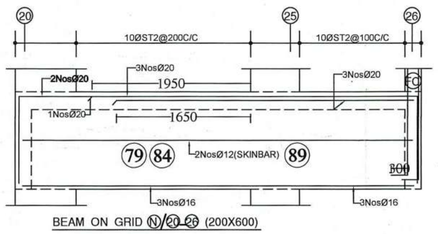
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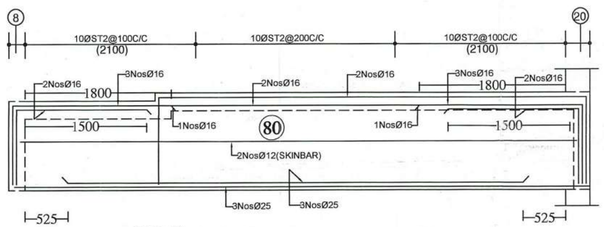
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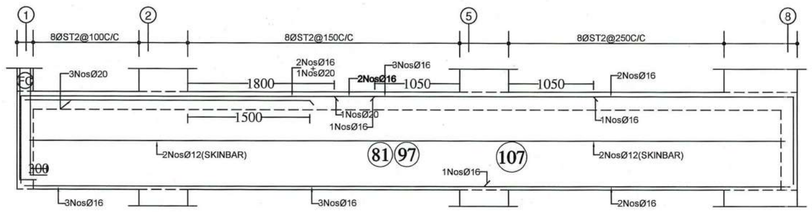
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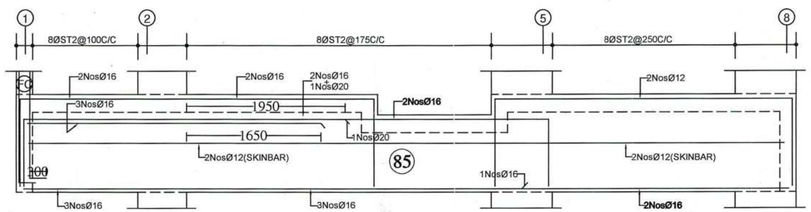
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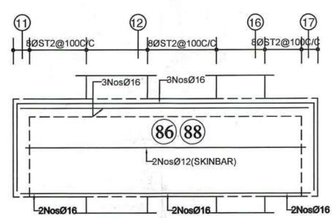
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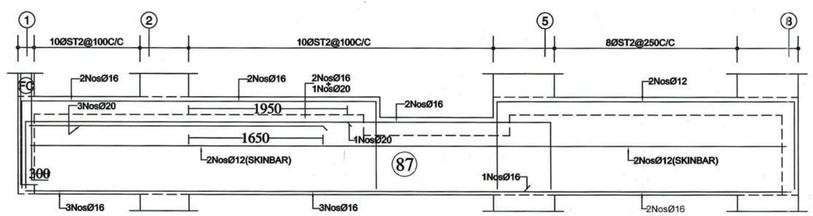
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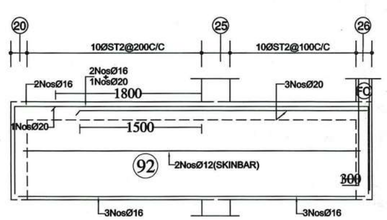
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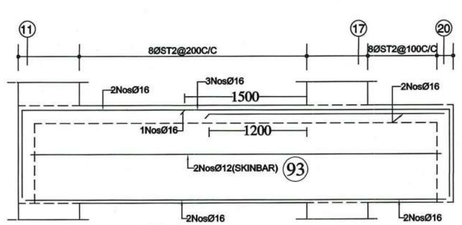
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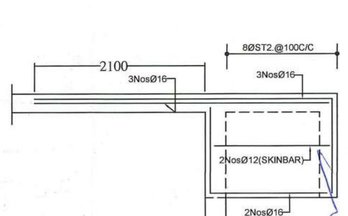
BEAM ON GRID Ⓢ/①-⑧ (200X600)(200X475)(200X600)



BEAM ON GRID Ⓤ/⑳-㉖ (200X600)



BEAM ON GRID Ⓤ/⑪-⑳ (200X600)



BEAM B8 (200X600)

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

STILT FLOOR ROOF
BEAM DETAILS - V

Dwg No...
11631
S -11

DATE: 20 -03- 2025
SCALE:1:25 , 1:50
ARCHITECT:

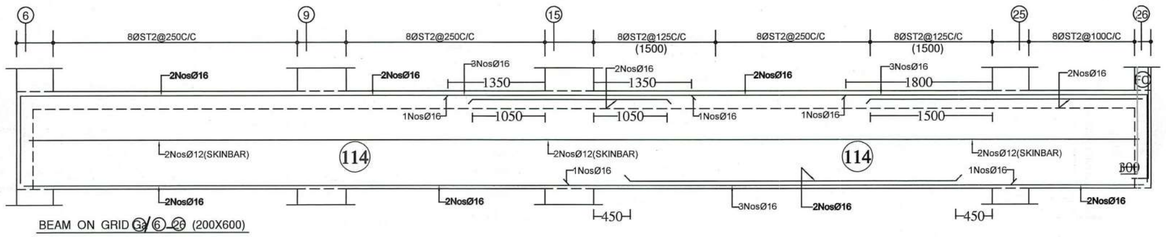
DSN/D : S.P.S.I
DRN : MANIGANDAN.D

BOURNA
Consultants - Engineers

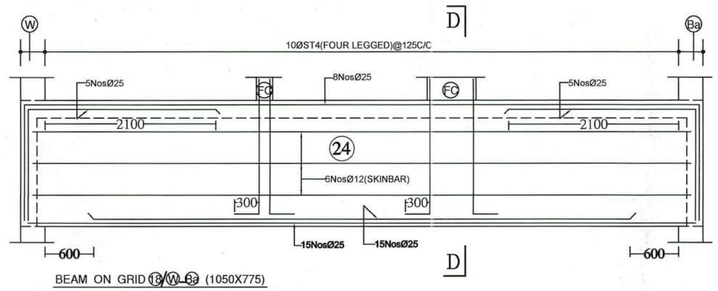
No:50, Krupasankari Street, West Mambalam, Chennai - 600 033. Ph : 2485 49 03

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

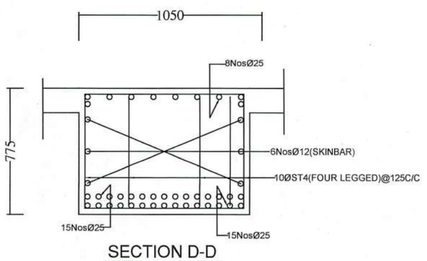
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Reg. No. RSE
Door No.50, Krupasankari Street,
West Mambalam, Chennai-600 033



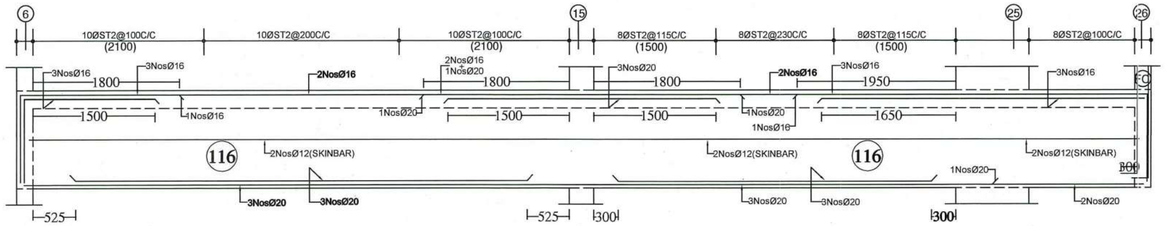
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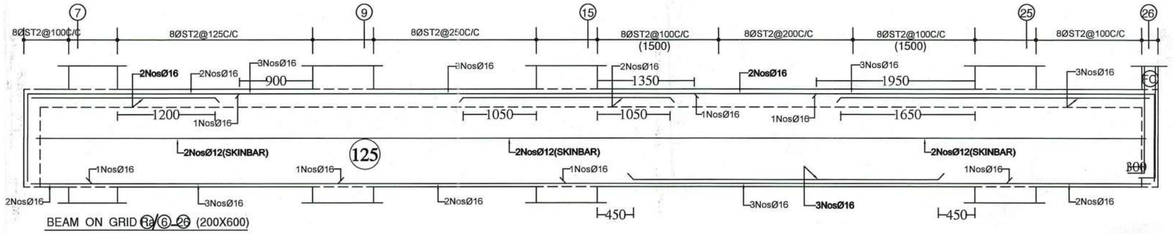
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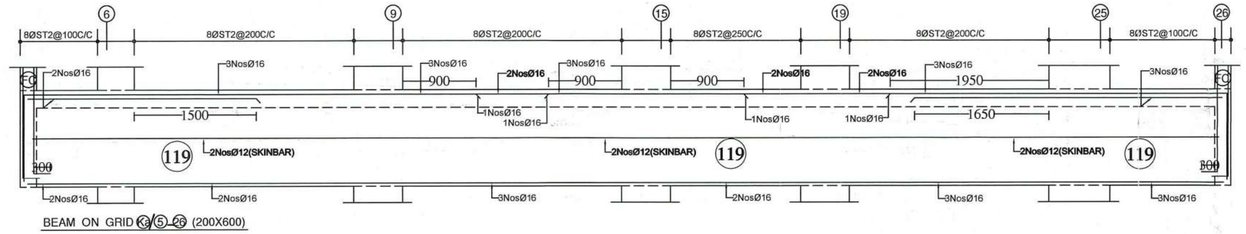
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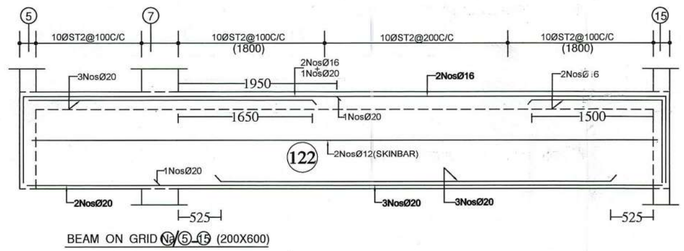
BEAM ON GRID 6a/6-26 (200X600)



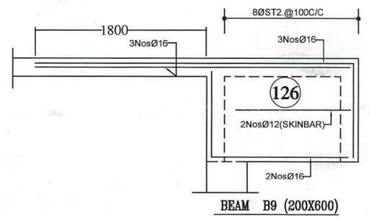
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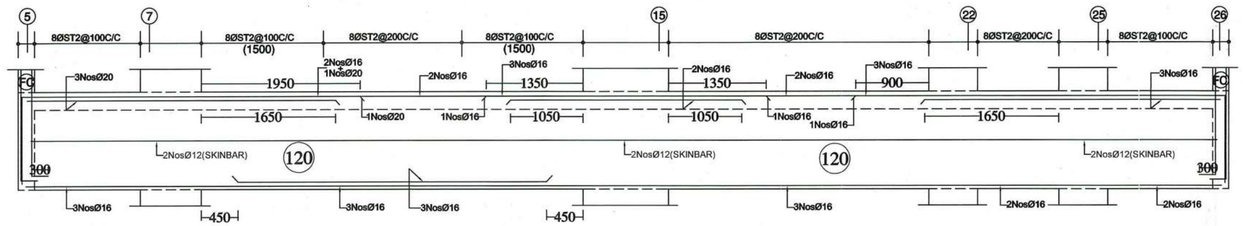
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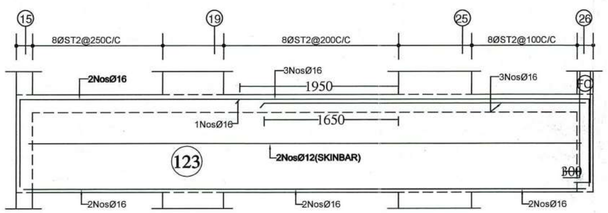
BEAM ON GRID Na/5-15 (200X600)



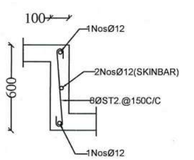
BEAM B9 (200X600)



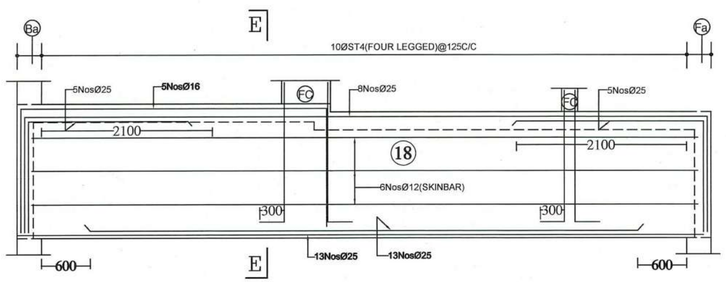
BEAM ON GRID Ca/5-26 (200X600)



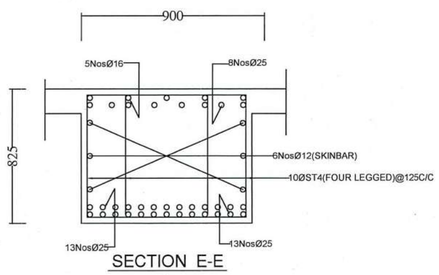
BEAM ON GRID Pa/15-26 (200X600)



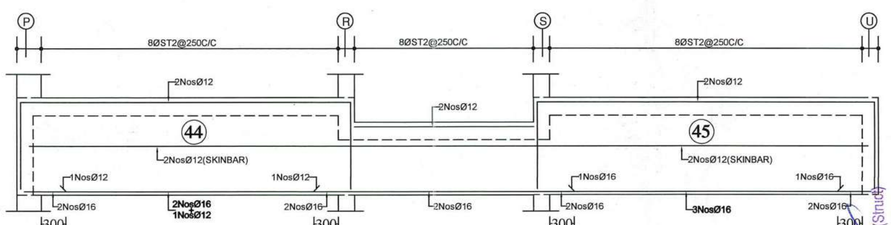
C.S. OF BEAM B5 (100X600)



BEAM ON GRID 25/W-Fa (900X825)(900X775)



SECTION E-E



BEAM ON GRID 5/P-U (200X600)(200X450)(200X600)

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

STILT FLOOR ROOF BEAM DETAILS - VII

Dwg No... 11631 S-13

SCALE:1:25 , 1:50

DATE: 28 -03- 2025

ARCHITECT:

DSND : S.P.S.I

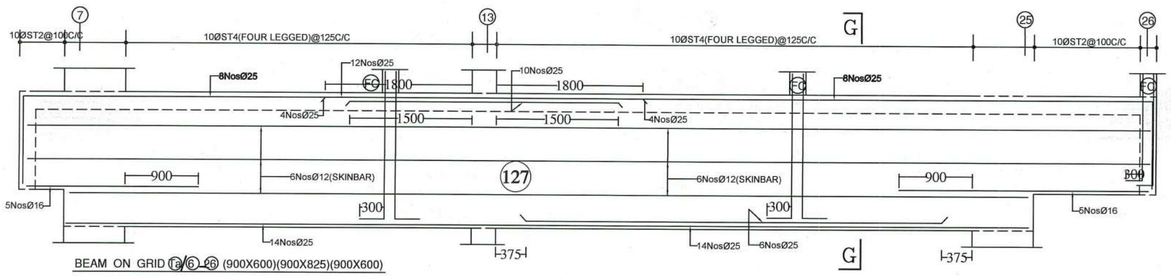
DRN : MANGANDAN.D

BOURNA Consultants - Engineers

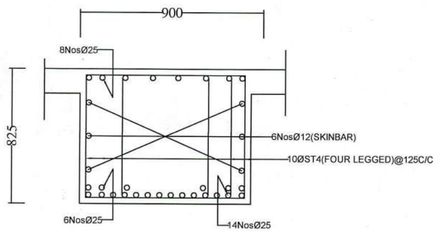
No:50, Kirupasankari Street, West Mambalam, Chennai - 600 033. Ph : 2485 46 03

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

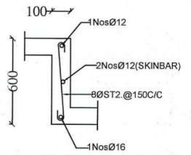
S. P. S. INBARAJAN, M.E., (Struct) Registered Structural Engineer Grade-I (SE) in CMDA Reg. No. SE/GR-1/2024/2/699 dt. 27.02.2024 Grade-I (RSE) in Greater Chennai Corporation Reg. No. RSE-1/2030/2024 Dt. 09.10.2024 Door No.50, Kirupasankari Street, West Mambalam, Chennai - 600 033.



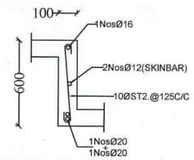
BEAM ON GRID 7/G-H 13/G-H 25/G-H 26/G-H (900X600)(900X825)(900X600)



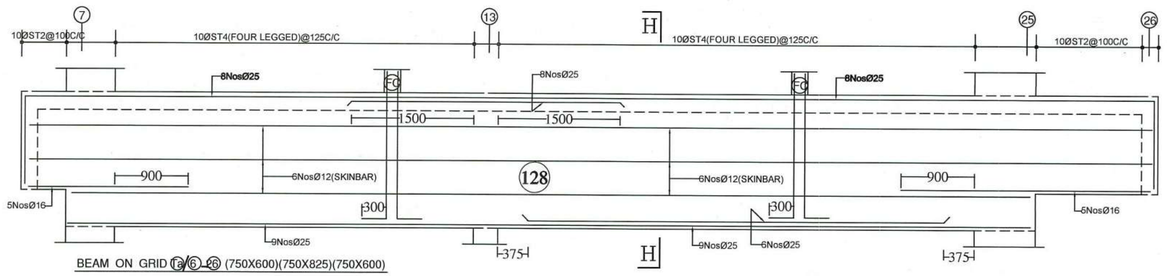
SECTION G-G



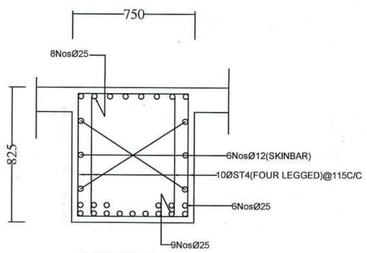
C.S. OF BEAM B6 (100X600)



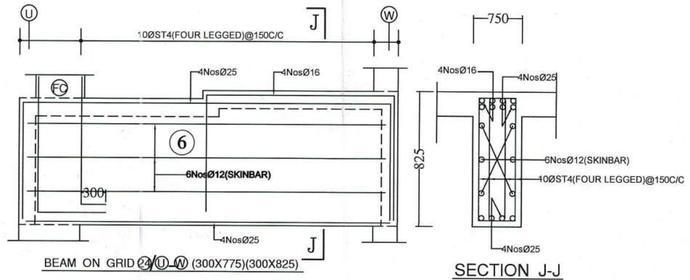
C.S. OF BEAM B7 (100X600)



BEAM ON GRID 7/H-H 13/H-H 25/H-H 26/H-H (750X600)(750X825)(750X600)

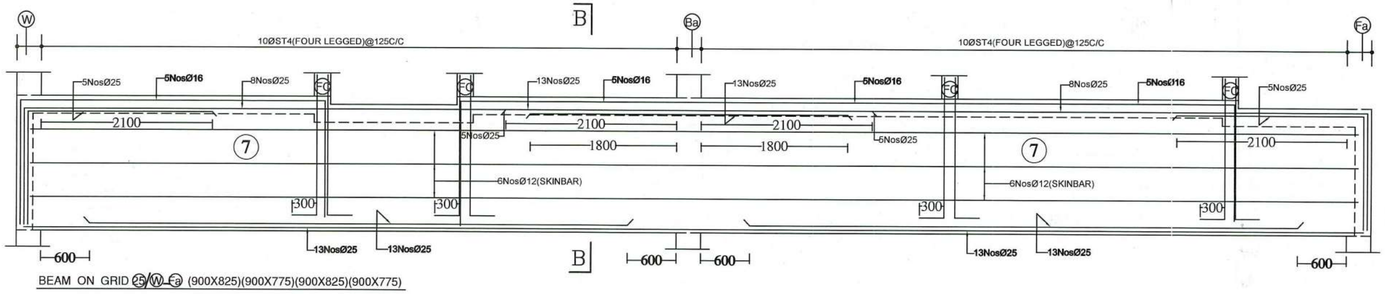


SECTION H-H

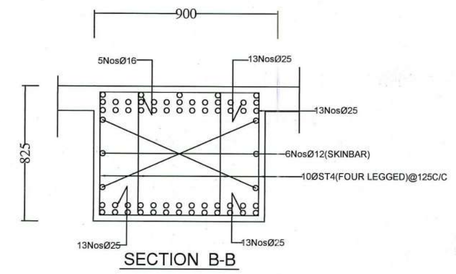


BEAM ON GRID 24/U-W (300X775)(300X825)

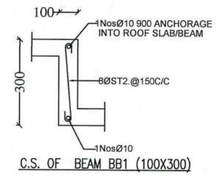
SECTION J-J



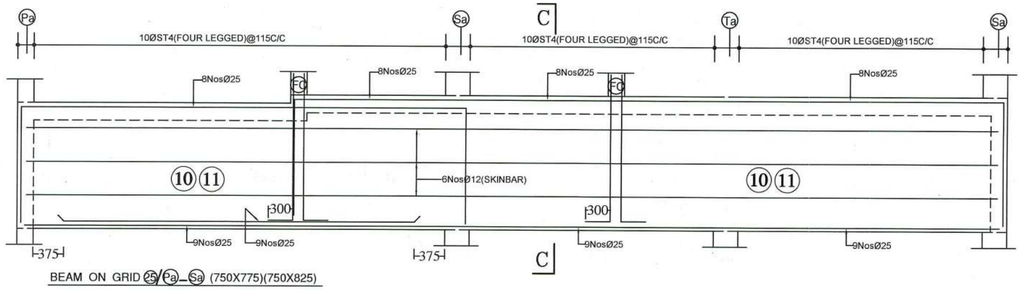
BEAM ON GRID 25/W-Fa (900X825)(900X775)(900X825)(900X775)



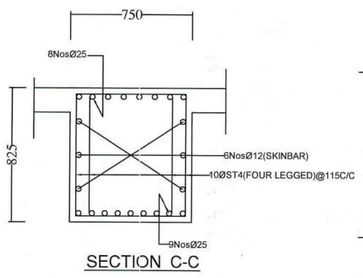
SECTION B-B



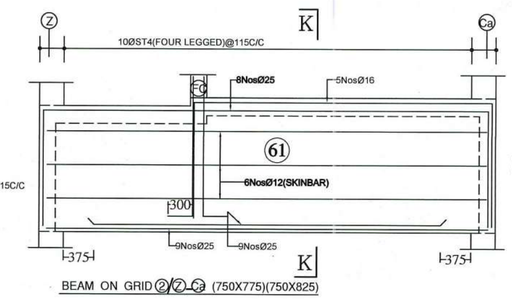
C.S. OF BEAM BB1 (100X300)



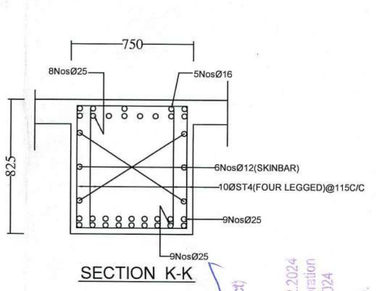
BEAM ON GRID 25/Pa-Sa (750X775)(750X825)



SECTION C-C



BEAM ON GRID 2/Z-Ca (750X775)(750X825)



SECTION K-K

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

STILT FLOOR ROOF BEAM DETAILS - VIII

SCALE:1:25 , 1:50

DATE: 28 :03: 2025

ARCHITECT:

Dwg No.. 11631 S-14

DSND : S.P.S.I

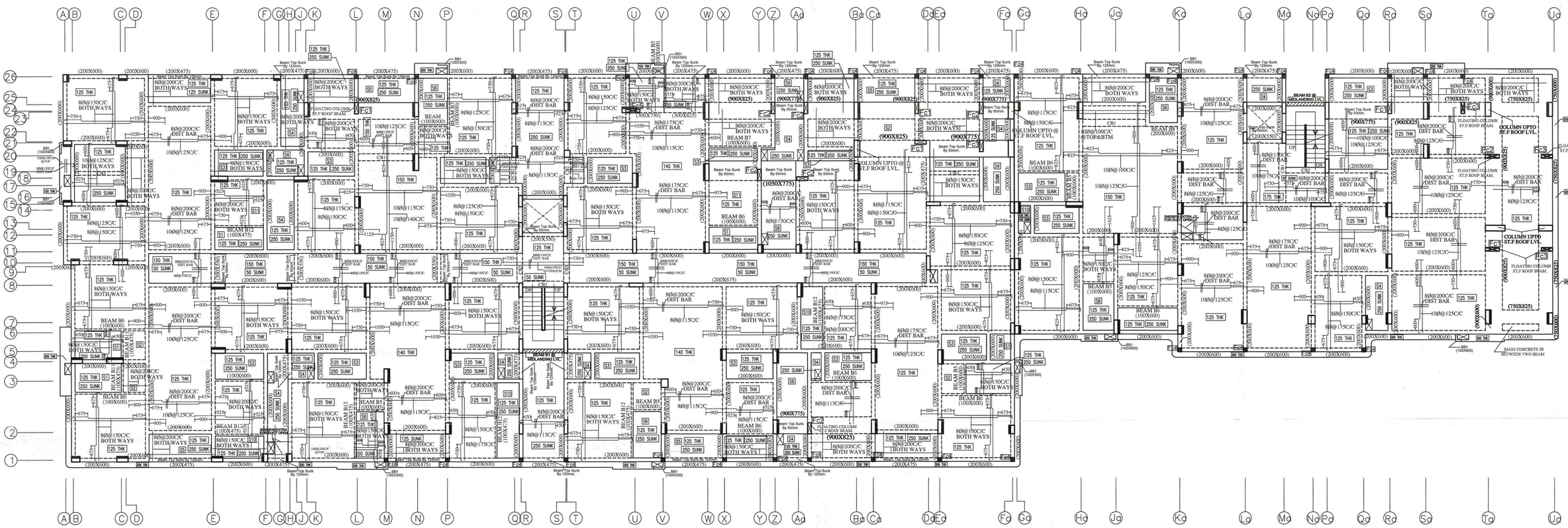
DRN : MANIGANDAN.D

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

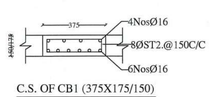
S.P.S.Inbarajan, M.E., A.M.I.E., Structural Consultant

BOURNA Consultants - Engineers

S. P. S. INBARAJAN, M.E., (Struct)
Registered Structural Engineer
Grade-I (SE) in CMDA
Reg. No. SE/CR-1/2403/2009 dt. 27.02.2024
Grade-I (RSE) in Greater Chennai Corporation
Reg. No. RSE 1/3030/2024 Dt. 09.10.2024
Door No.50, Kirupasankari Street,
West Mambalam, Chennai-600 033.



STILT FLOOR ROOF SLAB LAYOUT



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

C.S. OF CB2 (300X175)

C.S. OF CB3 (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.

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

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

GROUND FLOOR ROOF SLAB LAYOUT.

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

ARCHITECT:

Dwg No...
11631
S -06

DSND : S.P.S.I

DRN : MANIGANDAN.D

REV	DESCRIPTION	CHKD	DRN	DATE
R4	STILT FLOOR ROOF SLAB REVISED	S.P.S.I	MANI.D	13.03.25
R3	STILT FLOOR ROOF SLAB REVISED	S.P.S.I	MANI.D	11.03.25
R2	STILT FLOOR ROOF SLAB REVISED	S.P.S.I	MANI.D	11.12.24
R1	STILT FLOOR ROOF SLAB REVISED	S.P.S.I	MANI.D	28.10.24

S. P. S. INBARAJAN, M.E., (Struct)
Registered Structural Engineer
Grade-I (SE) in CMDA
Reg. No. SE/GR-1/2024/09/009 dt. 27.02.2024
Grade-I (RSE) in Greater Chennai Corporation
Reg. No. RSE-1923/2024 Dt. 03.10.2024
Door No.50, Kirupasankari Street,
West Mambalam, Chennai-600 033.

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)	20NosØ20+ 10NosØ12	(4Nos Of Set) 8Ø@200C/C	10Nosø12
		1st.F. = (200X900)	20NosØ20	(3Nos Of Set) 8Ø@200C/C	(ST.F) (1st.F) (2nd.F)
		2nd.F. = (200X900)	6NosØ20 +14NosØ16		
		3rd.F. = (200X900)	6NosØ20 +14NosØ12		(3rd.F) (4th.F) (5th.F)
		4th.F. = (200X900)	20NosØ12		
		5th.F. = (200X750)	16NosØ12		
2.	C2	St.F. = (300X750)	16NosØ20+ 8NosØ12	(4Nos Of Set) 8Ø@200C/C	8Nosø12
		1st.F. = (200X750)	16NosØ20	(3Nos Of Set) 8Ø@200C/C	(ST.F) (1st.F) (2nd.F)
		2nd.F. = (200X750)	6NosØ20 +10NosØ16		
		3rd.F. = (200X750)	6NosØ20 +10NosØ12		(3rd.F) (4th.F) (5th.F)
		4th.F. = (200X750)	16NosØ12		
		5th.F. = (200X600)	10NosØ12	8Ø@200C/C	
3.	C3	St.F. = (300X750)	14NosØ20+ 8NosØ12	(4Nos Of Set) 8Ø@200C/C	8Nosø12
		1st.F. = (200X750)	14NosØ20	(2Nos Of Set) 8Ø@200C/C	(ST.F) (1st.F) (2nd.F)
		2nd.F. = (200X750)	14NosØ16		
		3rd.F. = (200X750)	14NosØ12		(3rd.F) (4th.F) (5th.F)
		4th.F. = (200X600)	10NosØ12	8Ø@200C/C	
		5th.F. = (200X600)	10NosØ12		
4.	C4	St.F. = (300X600)	12NosØ20+ 6NosØ12	(3Nos Of Set) 8Ø@200C/C	6Nosø12
		1st.F. = (200X600)	12NosØ20	(2Nos Of Set) 8Ø@200C/C	(ST.F) (1st.F) (2nd.F)
		2nd.F. = (200X600)	12NosØ16		
		3rd.F. = (200X600)	12NosØ12		(3rd.F) (4th.F) (5th.F)
		4th.F. = (200X450)	8NosØ12	8Ø@200C/C	
		5th.F. = (200X450)	8NosØ12		
5.	C5	St.F. = (300X600)	10NosØ20+ 6NosØ12	(3Nos Of Set) 8Ø@200C/C	6Nosø12
		1st.F. = (200X600)	10NosØ20	(2Nos Of Set) 8Ø@200C/C	(ST.F) (1st.F) (2nd.F)
		2nd.F. = (200X600)	10NosØ16		
		3rd.F. = (200X600)	10NosØ12		(3rd.F) (4th.F) (5th.F)
		4th.F. = (200X450)	8NosØ12	8Ø@200C/C	
		5th.F. = (200X450)	8NosØ12		
6.	C6	St.F. = (300X450)	8NosØ20+ 4NosØ12	(3Nos Of Set) 8Ø@200C/C	4Nosø12
		1st.F. = (200X450)	8NosØ20	(2Nos Of Set) 8Ø@200C/C	(ST.F) (1st.F) (2nd.F)
		2nd.F. = (200X450)	8NosØ16		
		3rd.F. = (200X450)	8NosØ12		(3rd.F) (4th.F) (5th.F)
		4th.F. = (200X450)	8NosØ12	8Ø@200C/C	
		5th.F. = (200X450)	8NosØ12		
7.	C7	St.F. = (300X450)	10NosØ16+ 4NosØ12	(3Nos Of Set) 8Ø@200C/C	4Nosø12
		1st.F. = (200X450)	10NosØ16	(2Nos Of Set) 8Ø@200C/C	(ST.F) (1st.F) (2nd.F)
		2nd.F. = (200X450)	8NosØ16		
		3rd.F. = (200X450)	8NosØ12		(3rd.F) (4th.F) (5th.F)
		4th.F. = (200X450)	8NosØ12	8Ø@200C/C	
		5th.F. = (200X450)	8NosØ12		
8.	C8	St.F. = (300X375)	4NosØ16+ 4NosØ12+ 3NosØ12	(2Nos Of Set) 8Ø@200C/C	3Nosø12
		1st.F. = (200X375)	4NosØ16+ 4NosØ12	8Ø@200C/C	(ST.F) (1st.F) (2nd.F)
		2nd.F. = (200X375)	8NosØ12		
		3rd.F. = (200X375)	8NosØ12		(3rd.F) (4th.F) (5th.F)
		4th.F. = (200X375)	8NosØ12		
		5th.F. = (200X375)	8NosØ12		
9.	C9	St.F. = (300X1050)	22NosØ20+ 12NosØ12	(5Nos Of Set) 8Ø@200C/C	12Nosø12
		1st.F. = (200X1050)	22NosØ20	(4Nos Of Set) 8Ø@200C/C	(ST.F) (1st.F) (2nd.F)
		2nd.F. = (200X1050)	8NosØ20 +14NosØ16		
		3rd.F. = (200X1050)	8NosØ20 +14NosØ12		(3rd.F) (4th.F) (5th.F)
		4th.F. = (200X1050)	22NosØ12		
		5th.F. = (200X750)	14NosØ12	(2Nos Of Set) 8Ø@200C/C	
10.	C10	St.F. = (300X1050)	28NosØ20+ 12NosØ12	(5Nos Of Set) 8Ø@200C/C	12Nosø12
		1st.F. = (200X1050)	28NosØ20	(4Nos Of Set) 8Ø@200C/C	(ST.F) (1st.F) (2nd.F)
		2nd.F. = (200X1050)	10NosØ20 +18NosØ16		
		3rd.F. = (200X1050)	10NosØ20 +18NosØ12		(3rd.F) (4th.F) (5th.F)
		4th.F. = (200X1050)	28NosØ12		
		5th.F. = (200X750)	14NosØ12	(2Nos Of Set) 8Ø@200C/C	
11.	C1A	St.F. = (200X1050)	28NosØ20	(4Nos Of Set) 8Ø@200C/C	
		1st.F. = (200X900)	20NosØ20	(3Nos Of Set) 8Ø@200C/C	(ST.F) (1st.F) (2nd.F)
		2nd.F. = (200X900)	6NosØ20 +14NosØ16		
		3rd.F. = (200X900)	6NosØ20 +14NosØ12		(3rd.F) (4th.F) (5th.F)
		4th.F. = (200X900)	20NosØ12		
		5th.F. = (200X750)	16NosØ12		
12.	C1B	St.F. = (300X900)	20NosØ20+ 10NosØ12	(4Nos Of Set) 8Ø@200C/C	10Nosø12
		1st.F. = (200X750)	14NosØ20	(2Nos Of Set) 8Ø@200C/C	(ST.F) (1st.F) (2nd.F)
		2nd.F. = (200X750)	14NosØ16		
		3rd.F. = (200X750)	14NosØ12		(3rd.F) (4th.F) (5th.F)
		4th.F. = (200X600)	10NosØ12	8Ø@200C/C	
		5th.F. = (200X600)	10NosØ12		
13.	C1C	St.F. = (300X900)	20NosØ20	(3Nos Of Set) 8Ø@200C/C	
		1st.F. = -	-		(ST.F) (1st.F) (2nd.F)
		2nd.F. = -	-		
		3rd.F. = -	-		(3rd.F) (4th.F) (5th.F)
		4th.F. = -	-		
		5th.F. = -	-		
14.	C1D	St.F. = (300X750)	18NosØ20+ 8NosØ12	(4Nos Of Set) 8Ø@200C/C	8Nosø12
		1st.F. = (200X750)	18NosØ20	(3Nos Of Set) 8Ø@200C/C	(G.F) (1st.F) (2nd.F)
		2nd.F. = (200X750)	4NosØ20 +14NosØ16		
		3rd.F. = (200X750)	4NosØ20 +14NosØ12		(3rd.F) (4th.F) (5th.F)
		4th.F. = (200X750)	18NosØ12		
		5th.F. = (200X600)	10NosØ12	8Ø@200C/C	
15.	C2A	St.F. = (200X750)	24NosØ20		
		1st.F. = (200X750)	16NosØ20	(3Nos Of Set) 8Ø@200C/C	(ST.F) (1st.F) (2nd.F)
		2nd.F. = (200X750)	6NosØ20 +10NosØ16		
		3rd.F. = (200X750)	6NosØ20 +10NosØ12		(3rd.F) (4th.F) (5th.F)
		4th.F. = (200X750)	16NosØ12		
		5th.F. = (200X600)	10NosØ12	8Ø@200C/C	
16.	C2B	St.F. = (300X900)	18NosØ16+ 10NosØ12	(3Nos Of Set) 8Ø@200C/C	10Nosø12
		1st.F. = (200X600)	12NosØ16	(2Nos Of Set) 8Ø@200C/C	(ST.F) (1st.F) (2nd.F)
		2nd.F. = (200X600)	4NosØ16 +8NosØ12		
		3rd.F. = (200X600)	10NosØ12		(3rd.F) (4th.F) (5th.F)
		4th.F. = (200X450)	8NosØ12	8Ø@200C/C	
		5th.F. = (200X450)	8NosØ12		

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
17.	C2C	St.F. = (375X450)	22NosØ20	(3Nos Of Set) 8Ø@200C/C	(ST.F) (1st.F) (2nd.F)
		1st.F. = (375X450)	16NosØ20		
		2nd.F. = (375X450)	12NosØ20	(2Nos Of Set) 8Ø@200C/C	(3rd.F) (4th.F) (5th.F)
		3rd.F. = (375X450)	8NosØ20		
		4th.F. = (375X450)	8NosØ16	8Ø@200C/C	
		5th.F. = (375X450)	8NosØ16		
18.	C2D	St.F. = (300X750)	20NosØ20	(3Nos Of Set) 8Ø@200C/C	(ST.F) (1st.F) (2nd.F)
		1st.F. = -	-		
		2nd.F. = -	-		
		3rd.F. = -	-		(3rd.F) (4th.F) (5th.F)
		4th.F. = -	-		
		5th.F. = -	-		
19.	C3A	St.F. = (200X750)	22NosØ20	(3Nos Of Set) 8Ø@200C/C	(ST.F) (1st.F) (2nd.F)
		1st.F. = (200X750)	14NosØ20	(2Nos Of Set) 8Ø@200C/C	
		2nd.F. = (200X750)	14NosØ16		
		3rd.F. = (200X750)	14NosØ12		(3rd.F) (4th.F) (5th.F)
		4th.F. = (200X600)	10NosØ12	8Ø@200C/C	
		5th.F. = (200X600)	10NosØ12		
20.	C3B	St.F. = (200X900)	20NosØ20	(3Nos Of Set) 8Ø@200C/C	(ST.F) (1st.F) (2nd.F)
		1st.F. = (200X750)	14NosØ20	(2Nos Of Set) 8Ø@200C/C	
		2nd.F. = (200X750)	14NosØ16		
		3rd.F. = (200X750)	14NosØ12		(3rd.F) (4th.F) (5th.F)
		4th.F. = (200X600)	10NosØ12	8Ø@200C/C	
		5th.F. = (200X600)	10NosØ12		
21.	C3C	St.F. = (300X750)	14NosØ20+ 8NosØ12	(4Nos Of Set) 8Ø@200C/C	8Nosø12
		1st.F. = (200X600)	12NosØ16	(2Nos Of Set) 8Ø@200C/C	(ST.F) (1st.F) (2nd.F)
		2nd.F. = (200X600)	4NosØ16 +8NosØ12		
		3rd.F. = (200X600)	10NosØ12		(3rd.F) (4th.F) (5th.F)
		4th.F. = (200X450)	8NosØ12	8Ø@200C/C	
		5th.F. = (200X450)	8NosØ12		
22.	C3D	St.F. = (300X750)	18NosØ20	(3Nos Of Set) 8Ø@200C/C	(ST.F) (1st.F) (2nd.F)
		1st.F. = -	-		
		2nd.F. = -	-		
		3rd.F. = -	-		(3rd.F) (4th.F) (5th.F)
		4th.F. = -	-		
		5th.F. = -	-		
23.	C4A	St.F. = (200X750)	16NosØ20	(3Nos Of Set) 8Ø@200C/C	(ST.F) (1st.F) (2nd.F)
		1st.F. = (200X600)	12NosØ20	(2Nos Of Set) 8Ø@200C/C	
		2nd.F. = (200X600)	12NosØ16		
		3rd.F. = (200X600)	12NosØ12		(3rd.F) (4th.F) (5th.F)
		4th.F. = (200X450)	8NosØ12	8Ø@200C/C	
		5th.F. = (200X450)	8NosØ12		
24.	C4B	St.F. = (300X750)	16NosØ20+ 8NosØ12	(3Nos Of Set) 8Ø@200C/C	8Nosø12
		1st.F. = (200X750)	16NosØ20		(ST.F) (1st.F) (2nd.F)
		2nd.F. = (200X600)	12NosØ20	(2Nos Of Set) 8Ø@200C/C	
		3rd.F. = (200X600)	12NosØ16		
		4th.F. = (200X600)	12NosØ12		(3rd.F) (4th.F) (5th.F)
		5th.F. = (200X450)	8NosØ12	8Ø@200C/C	
24.	C5A	St.F. = (200X750)	14NosØ20	(3Nos Of Set) 8Ø@200C/C	(ST.F) (1st.F) (2nd.F)
		1st.F. = (200X600)	10NosØ20	(2Nos Of Set) 8Ø@200C/C	
		2nd.F. = (200X600)	10NosØ16		
		3rd.F. = (200X600)	10NosØ12		(3rd.F) (4th.F) (5th.F)
		4th.F. = (200X450)	8NosØ12	8Ø@200C/C	
		5th.F. = (200X450)	8NosØ12		
25.	C6A	St.F. = (200X600)	10NosØ20	(2Nos Of Set) 8Ø@200C/C	(ST.F) (1st.F) (2nd.F)
		1st.F. = (200X450)	8NosØ20		
		2nd.F. = (200X450)	8NosØ16	8Ø@200C/C	
		3rd.F. = (200X450)	8NosØ12		(3rd.F) (4th.F) (5th.F)
		4th.F. = (200X450)	8NosØ12		
		5th.F. = (200X450)	8NosØ12		
26.	C7A	St.F. = (200X600)	12NosØ16	(2Nos Of Set) 8Ø@200C/C	(ST.F) (1st.F) (2nd.F)
		1st.F. = (200X450)	10NosØ16		
		2nd.F. = (200X450)	8NosØ16		
		3rd.F. = (200X450)	8NosØ12		(3rd.F) (4th.F) (5th.F)
		4th.F. = (200X450)	8NosØ12	8Ø@200C/C	
		5th.F. = (200X450)	8NosØ12		
27.	C9A	St.F. = (300X900)	20NosØ20+ 10NosØ12	(4Nos Of Set) 8Ø@200C/C	10Nosø12
		1st.F. = (200X750)	14NosØ20	(3Nos Of Set) 8Ø@200C/C	(ST.F) (1st.F) (2nd.F)
		2nd.F. = (200X750)	14NosØ16		
		3rd.F. = (200X750)	14NosØ12		(3rd.F) (4th.F) (5th.F)
		4th.F. = (200X600)	10NosØ12	8Ø@200C/C	
		5th.F. = (200X600)	10NosØ12		
28.	C10A	St.F. = (300X1050)	32NosØ20+ 12NosØ12	(5Nos Of Set) 8Ø@200C/C	12Nosø12
		1st.F. = (200X750)	14NosØ20	(3Nos Of Set) 8Ø@200C/C	(ST.F) (1st.F) (2nd.F)
		2nd.F. = (200X750)	14NosØ16		
		3rd.F. = (200X750)	14NosØ12		(3rd.F) (4th.F) (5th.F)
		4th.F. = (200X600)	10NosØ12	8Ø@200C/C	
		5th.F. = (200X600)	10NosØ12		
29.	C10B	St.F. = (300X1050)	32NosØ20	(3Nos Of Set) 8Ø@200C/C	(ST.F) (1st.F) (2nd.F)
		1st.F. = -	-		
		2nd.F. = -	-		
		3rd.F. = -	-		(3rd.F) (4th.F) (5th.F)
		4th.F. = -	-		
		5th.F. = -	-		
30.	C11	St.F. = (300X900)	24NosØ20+ 10NosØ12	(4Nos Of Set) 8Ø@200C/C	10Nosø12
		1st.F. = (200X900)	24NosØ20		(ST.F) (1st.F) (2nd.F)
		2nd.F. = (200X900)	10NosØ20 +14NosØ16	(3Nos Of Set) 8Ø@200C/C	
		3rd.F. = (200X900)	10NosØ20 +14NosØ12		(3rd.F) (4th.F) (5th.F)
		4th.F. = (200X900)	24NosØ12		
		5th.F. = (200X750)	18NosØ12		

IMPORTANT NOTE :-

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

IMPORTANT NOTE FOR M-SAND :-

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

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.

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

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

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

FOUNDATION DETAILS-I.

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

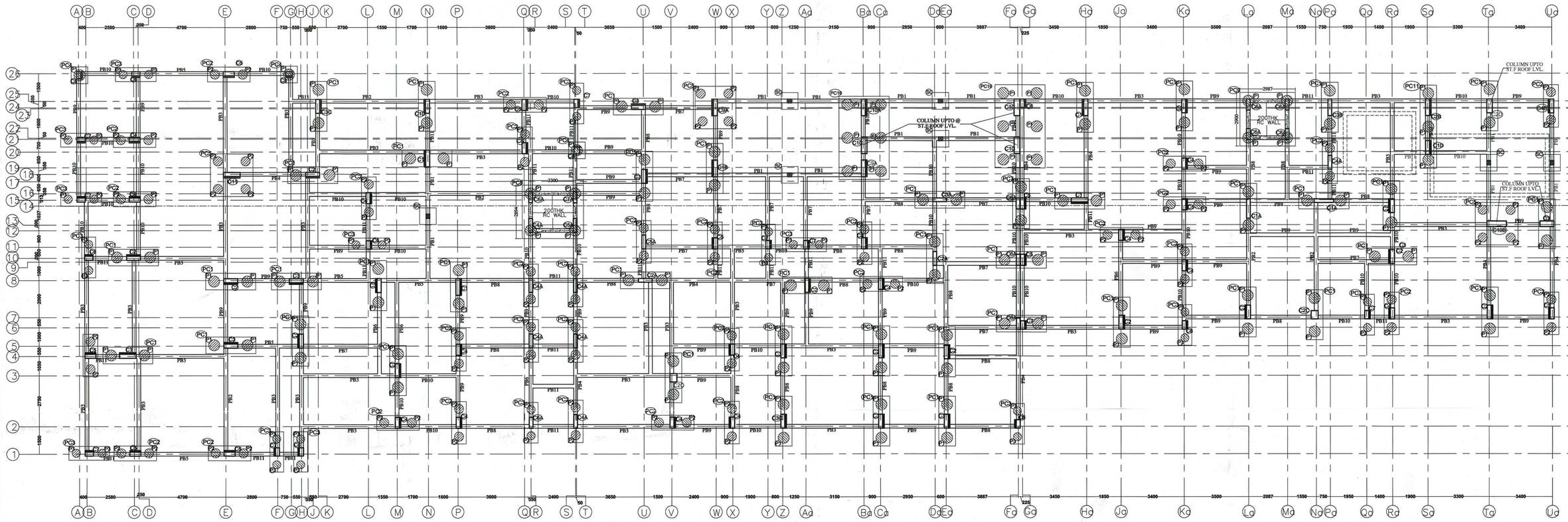
ARCHITECT:

Dwg No... 11631 S -02

DSND : S.P.S.I

DRN : SENTHIL.R

REV	DESCRIPTION	CHKD	DRN	DATE
R3	DRAWING REVISED	S.P.S.I	SENTHIL.R	28.11.24
R2	DRAWING REVISED	S.P.S.I	SENTHIL.R	22.11.24
R1	DRAWING REVISED	S.P.S.I	SENTHIL.R	18.10.24



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 123", 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.

IMPORTANT NOTE FOR M-SAND :-

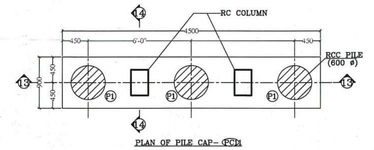
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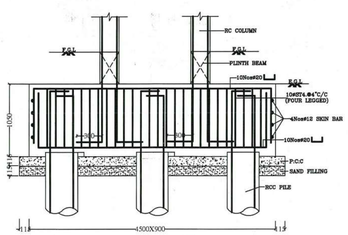
IMPORTANT NOTE :-

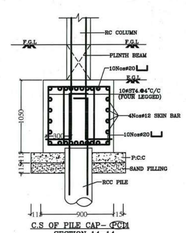
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IMPORTANT NOTE FOR LAYING METHOD FOR READY MIX CONCRETE (RMC) :-

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.
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S. P. S. INBARAJAN, M.E., (Struct)
Registered Structural Engineer
Grade-I (SE) in CMDA
Reg. No. STR/E-1020/2002 dt. 27.02.2024
Grade-I (Struct) in CMDA
Reg. No. RSE 1030/2024 Dt. 09.10.2024
Door No.59, Kirupasankari Street,
West Mambalam, Chennai - 600 033.

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

No:59, 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

FOUNDATION LAYOUT.

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

ARCHITECT:

Dwg No... 11631 S -01

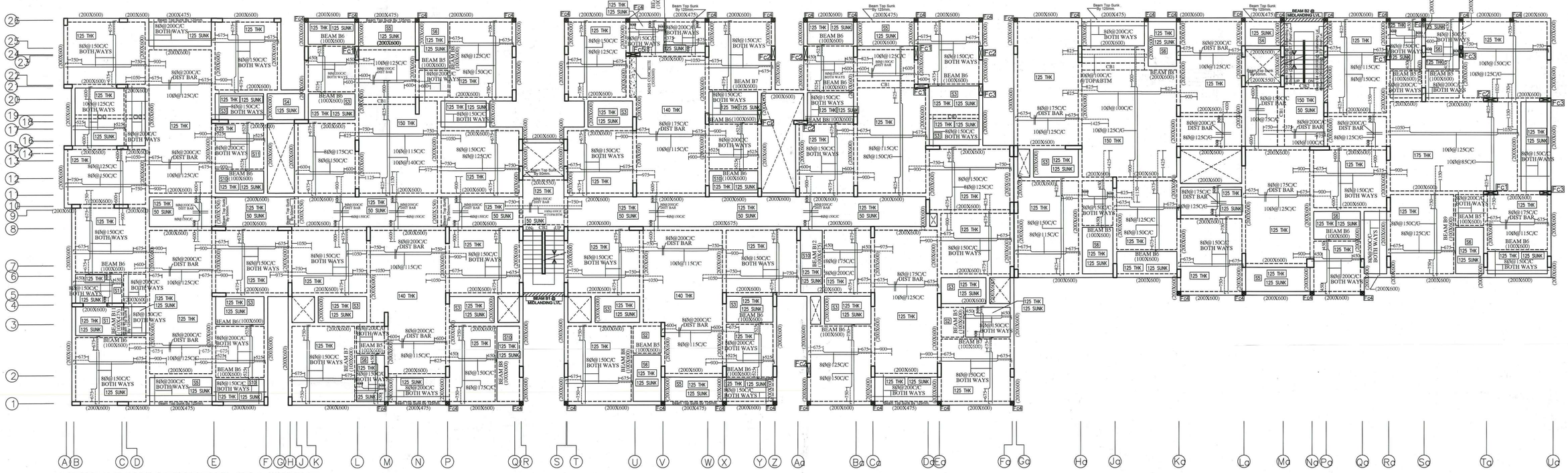
DSND : S.P.S.I

DRN : SENTHIL.R

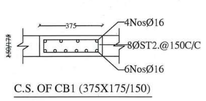
CONCRETE NOTES:-
1. CONCRETE SHALL BE OF GRADE M20 (MIX 1:1.5:3) UNLESS NOTE OTHERWISE. FOR CONVENTIONAL MIXTURE MACHINE CONCRETE AND CONCRETE SHALL BE OF GRADE M25 FOR READY MIX CONCRETE. (340KG CEMENT PER Cu.m OF READY MIX CONCRETE WITHOUT FLYASH) EXEPT FOR PILE , COLUMN CONCRETING. FOR COLUMN CONCRETE 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.

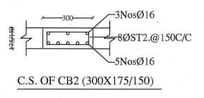
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R2	DRAWING REVISED	S.P.S.I	SENTHIL.R	18.10.24
R1	DRAWING REVISED	S.P.S.I	SENTHIL.R	07.08.24



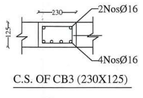
FIRST FLOOR ROOF SLAB LAYOUT



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



C.S. OF CB2 (300X175/150)



C.S. OF CB3 (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	(1st.F) (2nd.F) (3rd.F)
		2nd.F. = (200X750)	14Nos⌀16		
		3rd.F. = (200X750)	14Nos⌀12		
		4th.F. = (200X600)	10Nos⌀12	8Ø@200C/C	(4th.F) (5th.F)
		5th.F. = (200X600)	10Nos⌀12		
2.	FC2	1st.F. = (200X750)	12Nos⌀20	2Nos/Set 8Ø@200C/C	(1st.F) (2nd.F) (3rd.F)
		2nd.F. = (200X750)	12Nos⌀16		
		3rd.F. = (200X750)	12Nos⌀12		
		4th.F. = (200X600)	10Nos⌀12	8Ø@200C/C	(4th.F) (5th.F)
		5th.F. = (200X600)	10Nos⌀12		
3.	FC3	1st.F. = (200X600)	10Nos⌀20	2Nos/Set 8Ø@200C/C	(1st.F) (2nd.F) (3rd.F)
		2nd.F. = (200X600)	10Nos⌀16		
		3rd.F. = (200X600)	10Nos⌀12		
		4th.F. = (200X600)	10Nos⌀12	8Ø@200C/C	(4th.F) (5th.F)
		5th.F. = (200X600)	10Nos⌀12		
4.	FC4	1st.F. = (200X200)	4Nos⌀16	8Ø@200C/C	(1st.F) (2nd.F) (3rd.F)
		2nd.F. = (200X200)	4Nos⌀16		
		3rd.F. = (200X200)	4Nos⌀16		
		4th.F. = (200X200)	4Nos⌀16		(4th.F) (5th.F)
		5th.F. = (200X200)	4Nos⌀16		
5.	FC5	1st.F. = (200X750)	14Nos⌀20	(2Nos Of Set) 8Ø@200C/C	(1st.F) (2nd.F) (3rd.F)
		2nd.F. = (200X750)	14Nos⌀16		
		3rd.F. = (200X750)	14Nos⌀12		
		4th.F. = (200X600)	10Nos⌀12	8Ø@200C/C	(4th.F) (5th.F)
		5th.F. = (200X600)	10Nos⌀12		

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

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

FIRST FLOOR ROOF SLAB LAYOUT.

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

ARCHITECT:

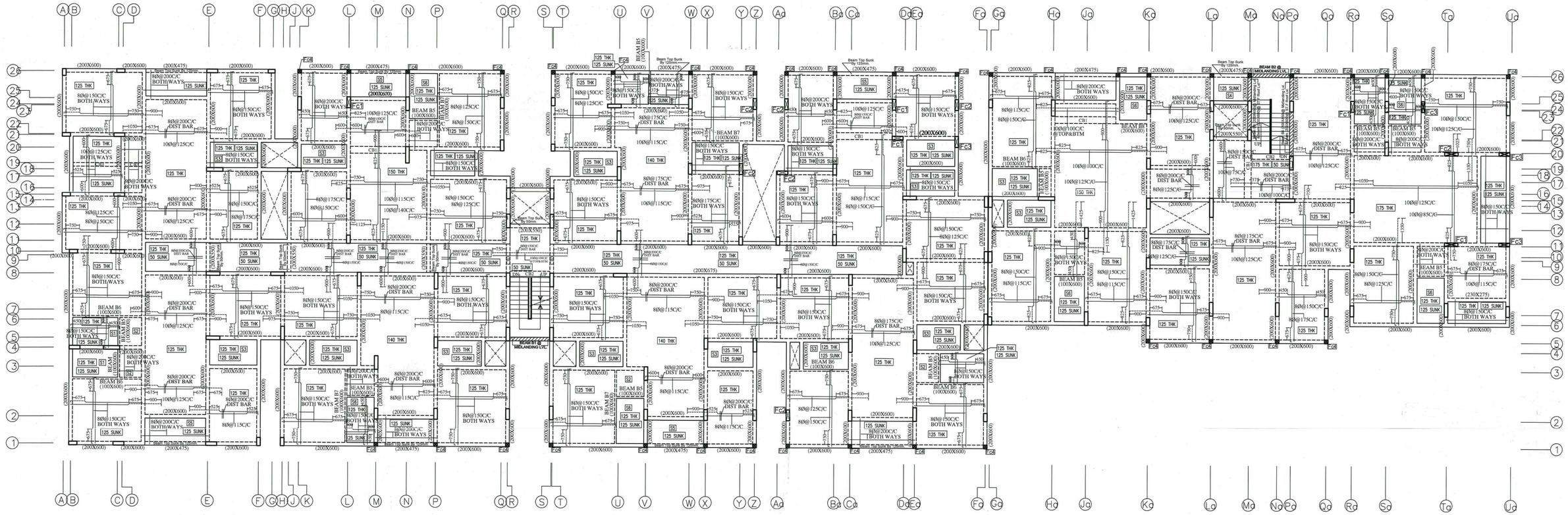
Dwg No... 11631 S -16

DSND : S.P.S.I

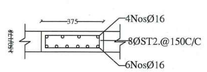
DRN : MANIGANDAN.D

REV	DESCRIPTION	CHKD	DRN	DATE
R4	FIRST FLOOR ROOF SLAB REVISED	S.P.S.I	MANI.D	14.05.25
R3	FIRST FLOOR ROOF SLAB REVISED	S.P.S.I	MANI.D	04.02.25
R2	FIRST FLOOR ROOF SLAB REVISED	S.P.S.I	MANI.D	11.12.24
R1	FIRST FLOOR ROOF SLAB REVISED	S.P.S.I	MANI.D	28.10.24

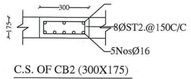
S. P. S. INBARAJAN, M.E., (Struct)
Registered Structural Engineer
Grade-I (SE) in CMDA
Reg. No. SE/GR-I/2024/02/000 dt. 27.02.2024
Grade-I (RSE) in Greater Chennai Corporation
Reg. No. RSE/[illegible]/2024 Dt. 09.10.2024
Door No. [illegible] Street,
West Mambalam, Chennai-600 033.



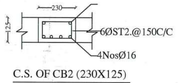
TYPICAL FLOOR ROOF SLAB LAYOUT
SECOND,THIRD & FOURTH FLOOR LAYOUT



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



C.S. OF CB2 (300X175)



C.S. OF CB2 (230X125)

IMPORTANT NOTES :-

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 :-

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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) :-

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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.Ø20	2Nos/Set @@200C/C	(1st.F) (2nd.F) (3rd.F)
		2nd.F. = (200X750)	14Nos.Ø16		
		3rd.F. = (200X750)	14Nos.Ø12		
		4th.F. = (200X600)	10Nos.Ø12	@@200C/C	(4th.F) (5th.F)
		5th.F. = (200X600)	10Nos.Ø12		
2.	FC2	1st.F. = (200X750)	12Nos.Ø20	2Nos/Set @@200C/C	(1st.F) (2nd.F) (3rd.F)
		2nd.F. = (200X750)	12Nos.Ø16		
		3rd.F. = (200X750)	12Nos.Ø12		
		4th.F. = (200X600)	10Nos.Ø12	@@200C/C	(4th.F) (5th.F)
		5th.F. = (200X600)	10Nos.Ø12		
3.	FC3	1st.F. = (200X600)	10Nos.Ø20	2Nos/Set @@200C/C	(1st.F) (2nd.F) (3rd.F)
		2nd.F. = (200X600)	10Nos.Ø16		
		3rd.F. = (200X600)	10Nos.Ø12	@@200C/C	
		4th.F. = (200X600)	10Nos.Ø12		(4th.F) (5th.F)
		5th.F. = (200X600)	10Nos.Ø12		
4.	FC4	1st.F. = (200X200)	4Nos.Ø16	@@200C/C	(1st.F) (2nd.F) (3rd.F)
		2nd.F. = (200X200)	4Nos.Ø16		
		3rd.F. = (200X200)	4Nos.Ø16		
		4th.F. = (200X200)	4Nos.Ø16		(4th.F) (5th.F)
		5th.F. = (200X200)	4Nos.Ø16		

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

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

S. P. S. INBARAJAN, M.E., (Struct) Registered Structural Engineer Grade-I (SE) in CMDA Reg. No. SE/GR-1/2022/02/009 dt. 27.02.2024 Grade-I (RSE) in Greater Chennai Corporation Reg. No. RSE 1/2/2024 Dt. 09.10.2024 Door No.50, Kirupasankari Street, West Mambalam, Chennai-600 033.

TYPICAL SECOND,THIRD & FOURTH FLOOR ROOF SLAB LAYOUT.

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


ARCHITECT:

Dwg No... 11631 S -07

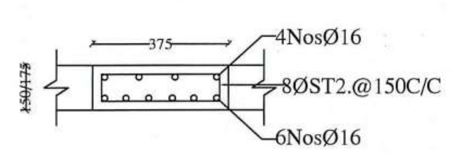
DSND : S.P.S.I

DRN : MANIGANDAN.D

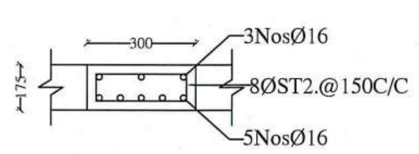
REV	DESCRIPTION	CHKD	DRN	DATE
R2	TYPICAL FLOOR ROOF SLAB REVISED	S.P.S.I	MANI.D	04.02.25
R2	TYPICAL FLOOR ROOF SLAB REVISED	S.P.S.I	MANI.D	11.12.24
R1	TYPICAL FLOOR ROOF SLAB REVISED	S.P.S.I	MANI.D	28.10.24



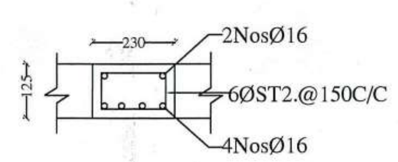
FIFTH FLOOR ROOF SLAB LAYOUT



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

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

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

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

ARCHITECT:

Dwg No...
11631
S -08

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

REV	DESCRIPTION	CHKD	DRN	DATE
R3	FIFTH FLOOR ROOF SLAB REVISED	S.P.S.I	MANI.D	04.02.25
R2	FIFTH FLOOR ROOF SLAB REVISED	S.P.S.I	MANI.D	11.12.24
R1	FIFTH FLOOR ROOF SLAB REVISED	S.P.S.I	MANI.D	28.10.24

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

THE LANDLENS SUITE

Eight ways to know a piece of land before you pay for it.

This report covers one part of the picture. These cover the rest, drawn from the same government records, for any property in Tamil Nadu.

LandLens One
Ask anything about a property and get an answer grounded in live government records, with the sources shown.
/landlens/one

Verify My Land
Every record check run on one property and returned as a single report.
/landlens/verify-my-land

Legal Opinion
An advocate's written opinion on the title, built on the records we pull for it.
/landlens

One Map
Every layer on one map: the parcel, its boundary, zoning, water bodies and what sits around it.
/landlens/one/map

PriceMap
What land actually changed hands for around this plot, taken from the registered deeds.
/landlens/pricemap

Build Scope
What you are allowed to build here: floor space, height, coverage and setbacks.
/landlens/build-scope

Property Tracker
Watch a property and hear about it when something new is registered against it.
/landlens/property-tracker

Deal Room
Run the transaction in one place: documents, stamping, signatures and the parties.
/landlens/deal-room

FREE TOOLS · NO ACCOUNT NEEDED

Twenty-four checks you can run yourself, at no cost.

Records and verification

The registers themselves, read for you.

- Encumbrance Certificate
- Patta and Chitta
- Field Measurement Sketch
- EC Analyzer
- Bank charge check
- Court case search
- Seller background check
- Approval check by survey

Value and duty

What it is worth and what it costs to register.

- Guideline value by street
- Guideline value by survey
- Stamp duty and registration fees
- Capital gains
- Floor space index
- Area unit converter

Zoning and land use

What the plan says can happen on this land.

- Land use zone finder
- CMDA land use check
- Coastal regulation zone
- Master plan check
- Water bodies finder
- Airport height clearance

Registers and directories

Who holds it, and which office keeps the record.

- Find your registering office
- Temple property check
- Waqf property check
- RERA register

Every free tool
/tools

Services we run for you
/services

The LandLens suite
/landlens/one

Verified RealEstate™

Every claim in this document traces back to a government record.

- Legal opinions, due diligence and title verification
- Building plan, layout and sub-division approvals
- Completion and occupancy certificates, regularisation
- Escrow, negotiation and NRI property management
- Land survey, soil testing, architecture and construction

Verified RealEstate
3/350/2 Mettukuppam,
OMR Thoraipakkam,
Chennai 600 097, India
hello@verified.realestate
+91 9996 12 9996

Prepared from the registers named on the page each finding sits on. Where a register could not be read, this document says so in its place rather than leaving the gap to be read as a clean result.