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BEAM ON GRID Ⓒ/④-⑪ (9"X1'3")(9"X1'9")

BEAM ON GRID Ⓒ/Ⓑ-① (9"X1'9")(9"X1'3")

BEAM ON GRID Ⓑ/①-⑦ (9"X1'9")

ALSO FOLLOW SIMILAR DETAILS FOR BEAM ON GRID Ⓑ/Ⓓ-②

BEAM ON GRID Ⓓ/⑦-⑪ (9"X2'3")(9"X1'9")

BEAM ON GRID Ⓖ/①-⑥ (9"X1'3")

BEAM ON GRID Ⓔ/①-⑦ (9"X1'6")

BEAM ON GRID Ⓕ/⑧-⑪ (9"X1'6")

BEAM ON GRID Ⓗ/⑦-⑪ (9"X2'3")(9"X1'9")

BEAM ON GRID Ⓗ/Ⓑ-① (9"X1'9")(9"X1'6")

BEAM ON GRID Ⓙ/①-⑪ (9"X1'6")

BEAM ON GRID Ⓚ/②-⑪ (9"X1'6")

PROPOSED RESIDENTIAL BUILDING FOR M/S. ASHWANTH CASTLE P\T LTD
AT VEERA RAHAV NAGAR, KATHIRVEDU, CHENNAI.

THIRD FLOOR ROOF
BEAM DETAILS - II

Dwg No.
12190
S -11

DATE : 29: 07 : 2025
SCALE: 1/4"-3/4"

ARCHITECT:

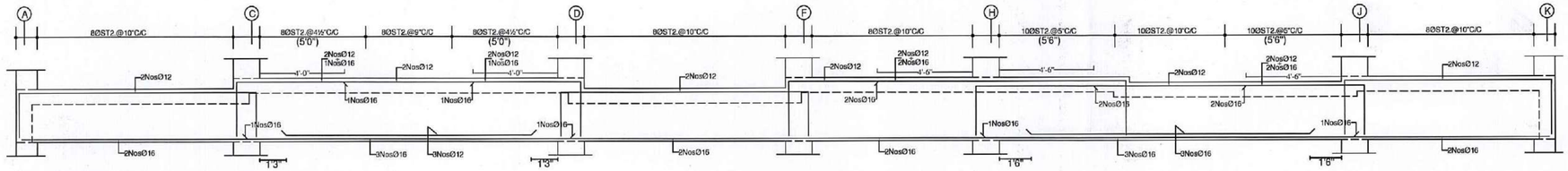
DSGND : S.P.S.I
DRN : MANIGANDAN.D

BOURNA
Consultants - Engineers

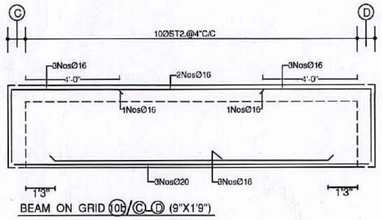
No:50, Kirupasankari Street, West Mambalam,
Chennai - 600 033. Ph : 2485 46 03

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

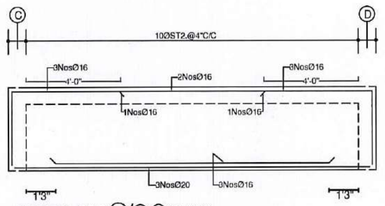
S. P. S. INBARAJAN, M.E., (Struct)
Registered Structural Engineer
Grade-I (SE) in CMDA
Reg. No. SE/CR-1/2024/2009 dt. 27.02.2024
Grade-I (RSE) in Greater Chennai Corporation
Reg. No. RSE 1/ 030/2024 Dt. 09.10.2024
Door No.50, Kirupasankari Street,
West Mambalam, Chennai-600 033



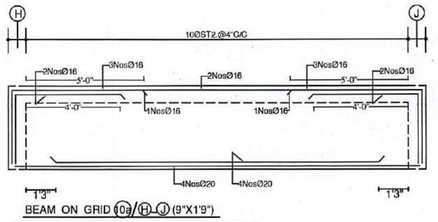
BEAM ON GRID (1)/(A-K) (9"X1'6")(9"X1'3")(9"X1'6")(9"X1'4½")(9"X1'6")



BEAM ON GRID (10b)/(C-D) (9"X1'9")

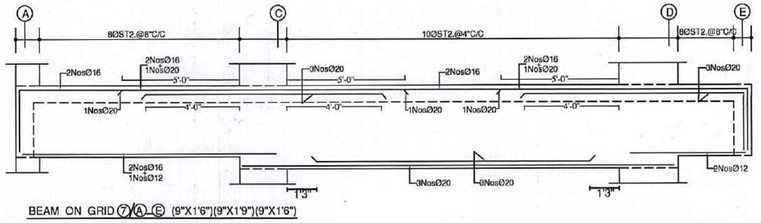


BEAM ON GRID (10b)/(C-D) (9"X1'9")

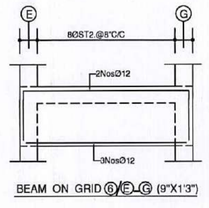


BEAM ON GRID (10a)/(H-J) (9"X1'9")

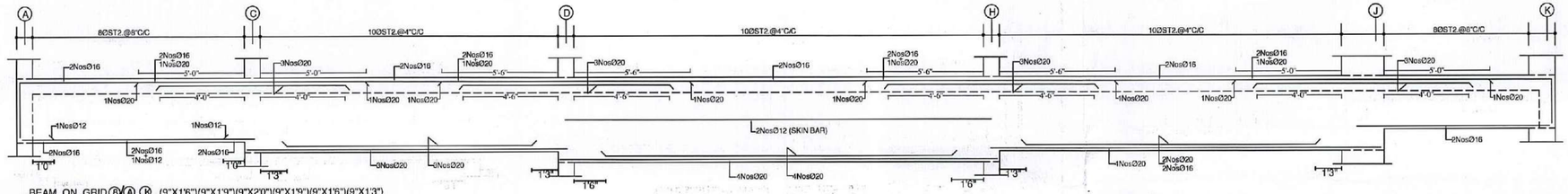
ALSO FOLLOW SIMILAR DETAILS FOR BEAM ON GRID (2)/(B-D)



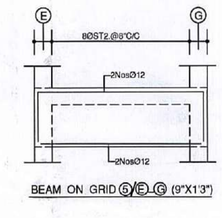
BEAM ON GRID (7)/(A-E) (9"X1'6")(9"X1'9")(9"X1'6")



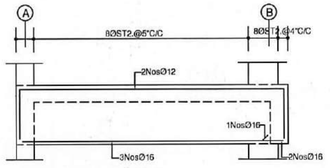
BEAM ON GRID (6)/(E-G) (9"X1'3")



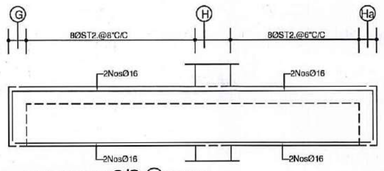
BEAM ON GRID (8)/(A-K) (9"X1'6")(9"X1'9")(9"X2'0")(9"X1'9")(9"X1'6")(9"X1'3")



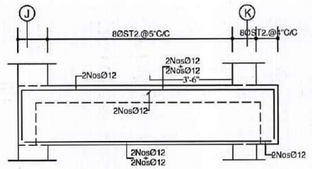
BEAM ON GRID (5)/(E-G) (9"X1'3")



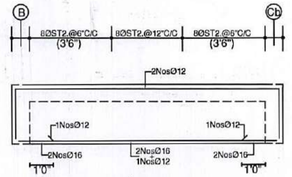
BEAM ON GRID (4)/(A-C) (9"X1'3")



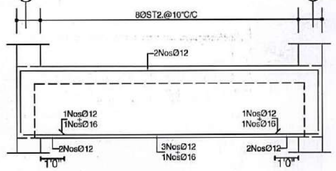
BEAM ON GRID (3)/(G-Ha) (9"X1'3")



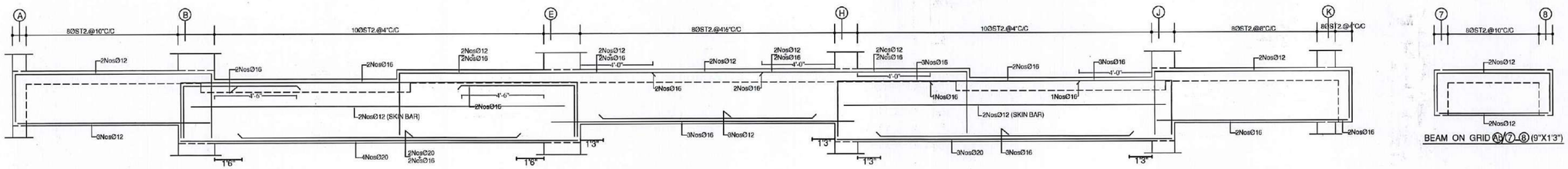
BEAM B3 (4½"X1'3")



BEAM ON GRID (B)/(1-Cb) (9"X1'3")

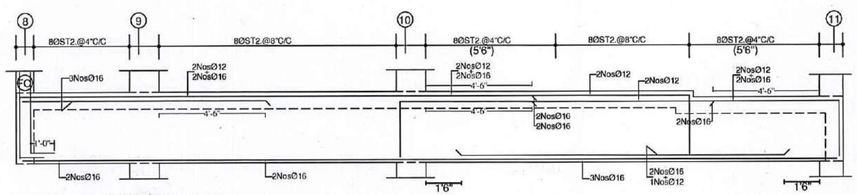


BEAM ON GRID (A)/(1-4) (9"X1'6")

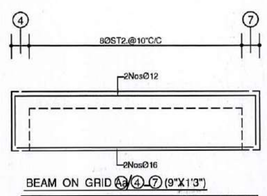


BEAM ON GRID (1)/(A-K) (9"X1'6")(9"X1'9")(9"X2'0"(9"X1'6")

BEAM ON GRID (A)/(7-8) (9"X1'3")

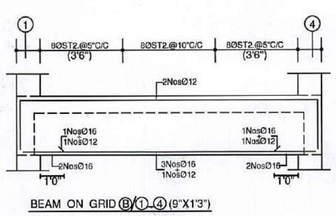


BEAM ON GRID (A)/(8-11) (9"X1'6")(9"X1'4½")

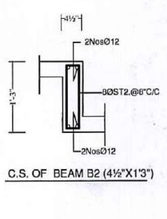


BEAM ON GRID (A)/(4-7) (9"X1'3")

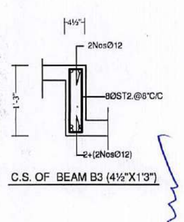
ALSO FOLLOW SIMILAR DETAILS FOR BEAM ON GRID (C)/(D-G)



BEAM ON GRID (B)/(1-4) (9"X1'3")



C.S. OF BEAM B2 (4½"X1'3")



C.S. OF BEAM B3 (4½"X1'3")

PROPOSED RESIDENTIAL BUILDING FOR M/S. ASHWANTH CASTLE PVT LTD
AT VEERA RAHAV NAGAR, KATHIRVEDU, CHENNAI.

TYPICAL FIRST & SECOND FLOOR
ROOF BEAM DETAILS - I

Dwg No... 12190 S -08

SCALE:1/4"-1'-0"

DATE : 29.07.2025

ARCHITECT:

DSND : S.P.S.I

DRN : MANIGANDAN.D

BOURNA
Consultants - Engineers

No.50, Kirupasankari Street, West Mambalam, Chennai - 600 033. Ph : 2485 45 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-1/2024/02/009 dt. 27.02.2024
Grade-I (PSE) in Greater Chennai Corporation
Reg. No. RSI/ 10030/2024 Dt. 09.10.2024
Door No.50, Kirupasankari Street,
West Mambalam Chennai-600 033.

BEAM ON GRID Ⓒ/④-⑪ (9"X1'3")(9"X1'9")

BEAM ON GRID Ⓒ/⑧-⑪ (9"X1'9")(9"X1'3")

BEAM ON GRID Ⓒ/①-⑦ (9"X1'9")

ALSO FOLLOW SIMILAR DETAILS FOR BEAM ON GRID Ⓒ/Ⓒ-Ⓓ

BEAM ON GRID Ⓛ/⑦-① (9"X2'3")(9"X1'9")(9"X1'7½")

BEAM ON GRID Ⓒ/①-⑥ (9"X1'3")

BEAM ON GRID Ⓔ/①-⑦ (9"X1'6")

BEAM ON GRID Ⓕ/⑧-⑪ (9"X1'6")

BEAM ON GRID Ⓗ/⑦-⑪ (9"X2'3")(9"X1'9")

BEAM ON GRID Ⓗ/⑧-⑪ (9"X1'9")(9"X1'6")(9"X1'3")

BEAM ON GRID Ⓙ/①-⑪ (9"X1'6")

BEAM ON GRID Ⓚ/②-⑪ (9"X1'6")

S. P. S. INBARAJAN, M.E., (Struct)
Registered Structural Engineer
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Grade-I (RSE) in Greater Chennai Corporation
Reg. No. RSE-1003/2024 Dt. 08.10.2024
Door No. 50, Kirupasankari Street,
West Mambalam, Chennai-600 033.

PROPOSED RESIDENTIAL BUILDING FOR M/S. ASHWANTH CASTLE PVT LTD
AT VEERA RAHAV NAGAR, KATHIRVEDU, CHENNAI.

STILT FLOOR ROOF
BEAM DETAILS - II

Dwg No...
12190
S -07

DATE : 29.07.2025
SCALE:1/4" 3/4"

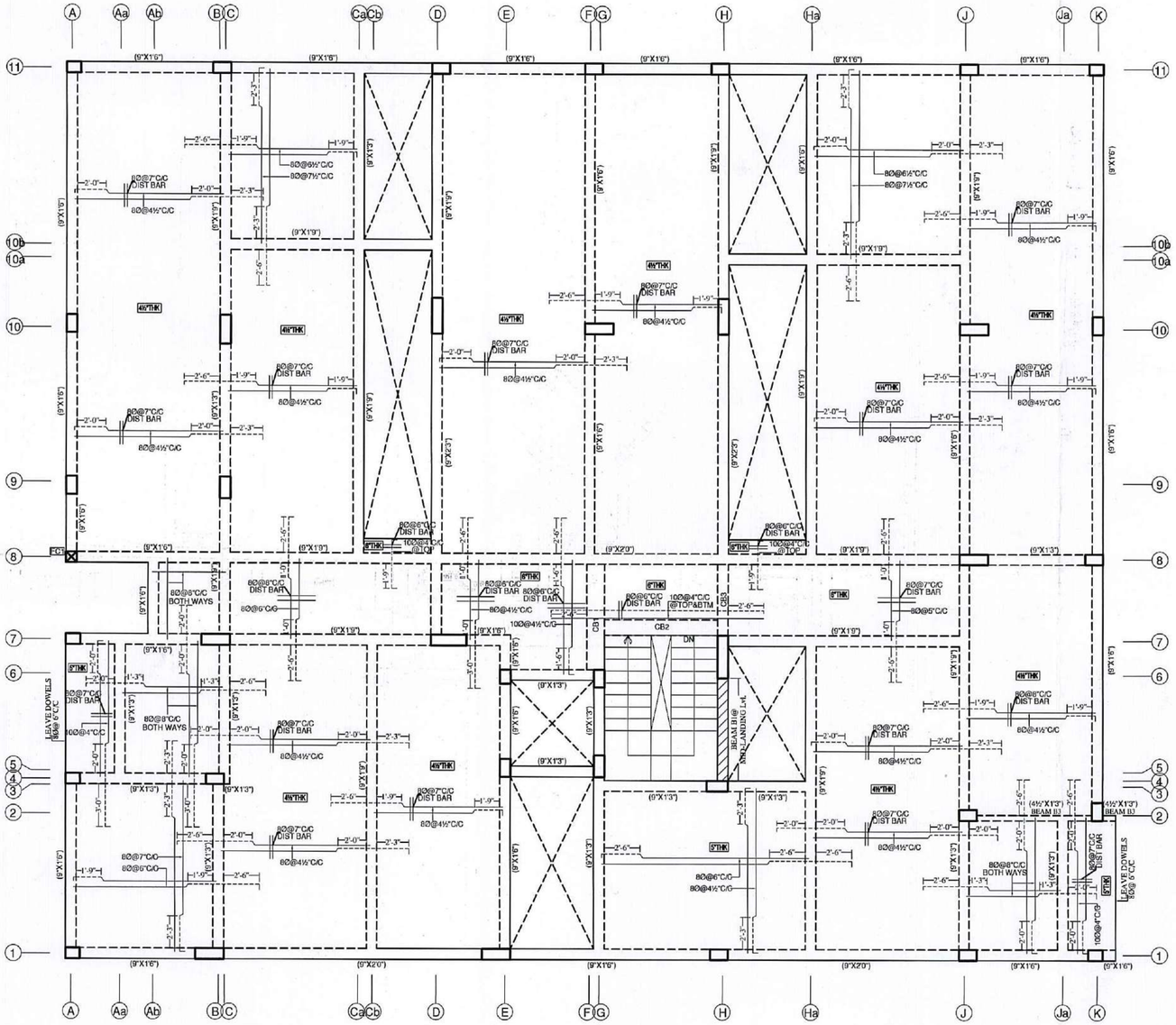
ARCHITECT:

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

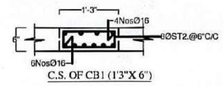
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Consultants - Engineers

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

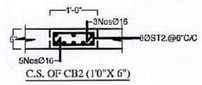
S.P.S.Inbarajan, M.E., A.M.I.E.,
Structural Consultant



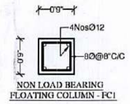
THIRD FLOOR ROOF SLAB LAYOUT



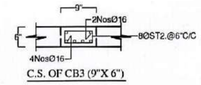
C.S. OF CB1 (1'3"X 6")



C.S. OF CB2 (1'0"X 6")



NON LOAD BEARING FLOATING COLUMN - FC1



C.S. OF CB3 (9"X 6")

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.
7. READY MIX CONCRETE IS NOT ADVISED FOR PILE AND COLUMN CONCRETING.

S. P. S. INBARAJAN, M.E., (Struct)
Registred Structural Engineer
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Reg. No. SE/CR-1/2024/0/2009 dt. 27.02.2024
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PROPOSED RESIDENTIAL BUILDING FOR M/S. ASHWANTH CASTLE PVT LTD
AT VEERA RAHAV NAGAR, KATHIRVEDU, CHENNAI.

THIRD FLOOR ROOF SLAB LAYOUT

DATE : 22/ 07 / 2025 | SCALE: 1/4" ,3/4"

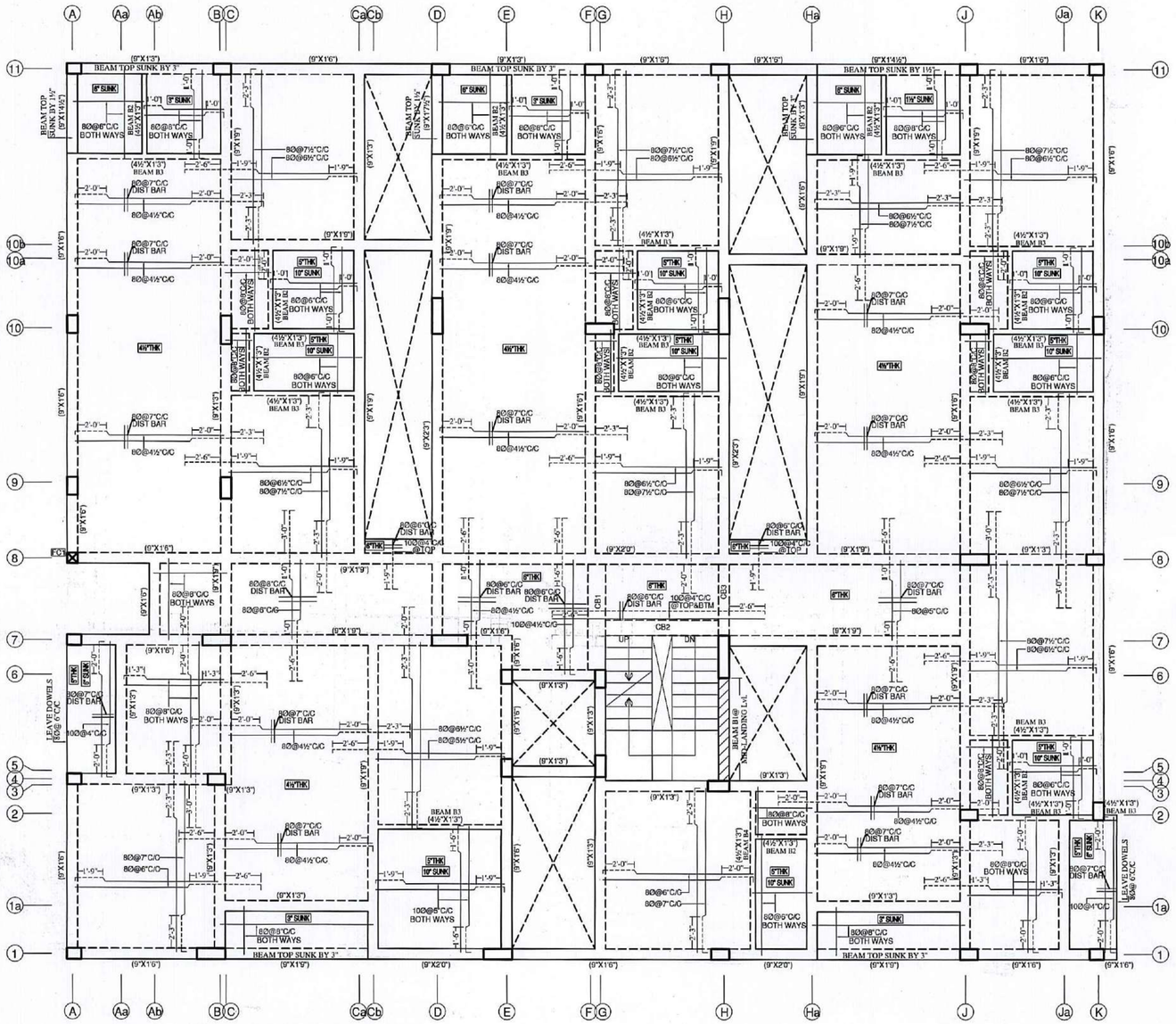
ARCHITECT:

Dwg No... 12190 S -04

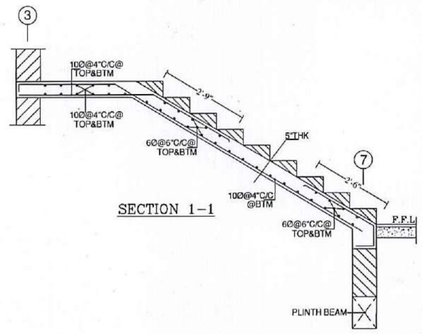
DSND : S.P.S.I

DRN : SUDHA

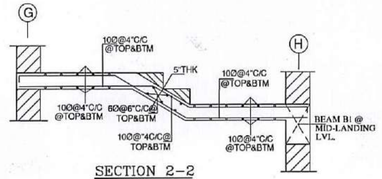
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S.P.S.Inbarajan, M.E., A.M.I.E.,
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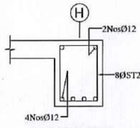
TYPICAL FLOOR ROOF SLAB LAYOUT (FIRST&SECOND FLOOR)



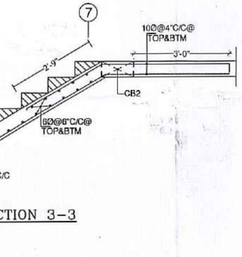
SECTION 1–1



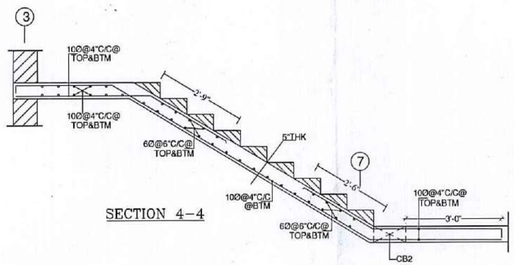
SECTION 2–2



BEAM B1(9"X1'0") @ MID LANDING LVL.



SECTION 3–3



SECTION 4–4

IMPORTANT NOTES :-

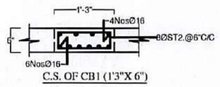
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IMPORTANT NOTE FOR M–SAND :-

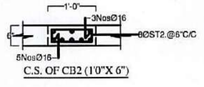
SAND SHALL BE REPLACED BY M-SAND FULLY OR PARTIALLY IN ANY PROPORTION FOR PLAIN CEMENT CONCRETE, REINFORCEMENT CEMENT CONCRETE EXCEPT COLUMN CONCRETE. FOR COLUMN CONCRETE BETTER TO USE SAND ALONE FOR CONCRETE.
M-SAND SHOULD BE FREE FROM DUST AT SITE AT THE TIME OF USING FOR CONCRETE.
TO CHECK THE M-SAND 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) :-

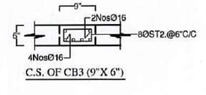
1. FOR M25 GRADE CONCRETE PROVIDE 340 KG CEMENT PER CUBIC METER OF READY MIX CONCRETE.
2. THE TIME DURATION OF READY MIX CONCRETE SHALL BE AT THE MAXIMUM OF 90 MINUTES TO 100 MINUTES FOR THE BEST STRENGTH RESULT OF CONCRETE.
3. TIME DURATION INCLUDES FROM THE TIME OF WATER ADDING IN THE BATCHING PLANT (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.



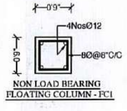
C.S. OF CB1 (1'3"X 6")



C.S. OF CB2 (1'0"X 6")



C.S. OF CB3 (9"X 6")



NON LOAD BEARING FLOATING COLUMN - FC1

S. P. S. INBARAJAN, M.E., (Struct)
Registered Structural Engineer
Grade-I (SE) in CMDA
Reg. No. SE/GR/1/2024/02009 dt. 27.02.2024
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Door No.5A, Krupanandini Street,
West Mambalam, Chennai-33

PROPOSED RESIDENTIAL BUILDING FOR M/S. ASHWANTH CASTLE PVT LTD
AT VEERA RAHAV NAGAR, KATHIRVEDU, CHENNAI.

TYPICAL FLOOR ROOF SLAB LAYOUT (FIRST & SECOND FLOOR)

Dwg No.: 12190 S -04

DATE : 29 / 07 / 2025 | SCALE:1/4" 3/4"

ARCHITECT:

DSGN : S.P.S.I

DRN : SUDHA

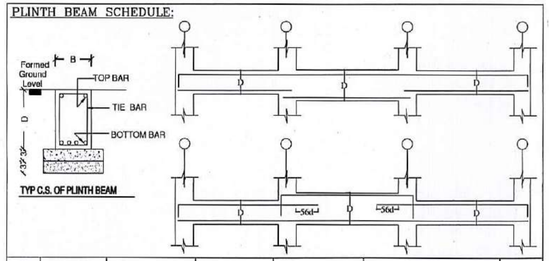
BOURNA
Consultants - Engineers
No:50, Krupanandini Street, West Mambalam, Chennai - 600 033. Ph : 2485 46 03
S.P.S.Inbarajan, M.E., A.M.I.E., Structural Consultant

COLUMN DETAILS

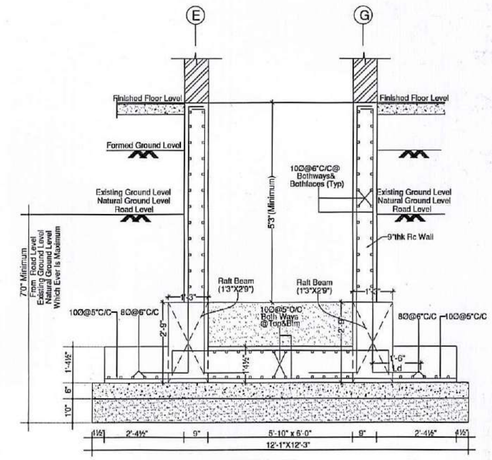
ST.F= STILT FLOOR. F.F.= FIRST FLOOR.
S.F.= SECOND FLOOR. T.F.= THIRD FLOOR.

SL. No.	NAME OF COLUMN	COLUMN SIZE	MAIN REINFORCEMENT	COLUMN TIE	COLUMN SECTION ROD DETAIL
1.	C1	ST.F.= (10"X2'6")	14Nos⌀20+ 6Nos⌀12	4Nos/Set 8⌀@6"C/C	(ST.F) (F.F) (S.F) (T.F)
		F.F.= (9"X2'6")	14Nos⌀20	3Nos/Set 8⌀@6"C/C	
		S.F.= (9"X2'6")	14Nos⌀12		
		T.F.= (9"X1'6")	8Nos⌀12	8⌀@8"C/C	
2.	C2	ST.F.= (10"X2'0")	10Nos⌀20+ 8Nos⌀12	3Nos/Set 8⌀@6"C/C	6Nos⌀12 (ST.F) (F.F) (S.F) (T.F)
		F.F.= (9"X2'0")	10Nos⌀20	2Nos/Set 8⌀@6"C/C	
		S.F.= (9"X2'0")	10Nos⌀12	8⌀@8"C/C	
		T.F.= (9"X1'6")	8Nos⌀12		
3.	C3	ST.F.= (10"X2'0")	10Nos⌀16+ 8Nos⌀12	3Nos/Set 8⌀@6"C/C	6Nos⌀12 (ST.F) (F.F) (S.F) (T.F)
		F.F.= (9"X2'0")	10Nos⌀16	2Nos/Set 8⌀@6"C/C	
		S.F.= (9"X2'0")	10Nos⌀12	8⌀@8"C/C	
		T.F.= (9"X1'6")	8Nos⌀12		
4.	C4	ST.F.= (10"X1'3")	8Nos⌀16+ 3Nos⌀12	2Nos/Set 8⌀@6"C/C	3Nos⌀12 (ST.F) (F.F) (S.F) (T.F)
		F.F.= (9"X1'3")	8Nos⌀16	8⌀@8"C/C	
		S.F.= (9"X1'3")	8Nos⌀12		
		T.F.= (9"X1'3")	8Nos⌀12		
5.	C5	ST.F.= (10"X1'3")	4Nos⌀16+ 4Nos⌀12+ 3Nos⌀12	2Nos/Set 8⌀@6"C/C	3Nos⌀12 (ST.F) (F.F) (S.F) (T.F)
		F.F.= (9"X1'3")	4Nos⌀16+ 4Nos⌀12	8⌀@8"C/C	
		S.F.= (9"X1'3")	8Nos⌀12		
		T.F.= (9"X1'3")	8Nos⌀12		
6.	C6	ST.F.= (10"X1'3")	8Nos⌀12+ 3Nos⌀12	2Nos/Set 8⌀@6"C/C	3Nos⌀12 (ST.F) (F.F) (S.F) (T.F)
		F.F.= (9"X1'3")	8Nos⌀12	8⌀@8"C/C	
		S.F.= (9"X1'0")	6Nos⌀12		
		T.F.= (9"X1'0")	6Nos⌀12		
7.	C7	ST.F.= (10"X1'0")	4Nos⌀16+ 4Nos⌀12+ 2Nos⌀12	2Nos/Set 8⌀@6"C/C	2Nos⌀12 (ST.F) (F.F) (S.F) (T.F)
		F.F.= (9"X1'0")	4Nos⌀16+ 4Nos⌀12	8⌀@8"C/C	
		S.F.= (9"X1'0")	6Nos⌀12		
		T.F.= (9"X1'0")	6Nos⌀12		
8.	C8	ST.F.= (10"X1'0")	6Nos⌀12+ 2Nos⌀12	2Nos/Set 8⌀@6"C/C	2Nos⌀12 (ST.F) (F.F) (S.F) (T.F)
		F.F.= (9"X1'0")	6Nos⌀12	8⌀@8"C/C	
		S.F.= (9"X1'0")	6Nos⌀12		
		T.F.= (9"X1'0")	6Nos⌀12		
9.	C1A	ST.F.= (9"X3'0")	18Nos⌀20	3Nos/Set 8⌀@6"C/C	(ST.F) (F.F) (S.F) (T.F)
		F.F.= (9"X2'6")	14Nos⌀20		
		S.F.= (9"X2'6")	14Nos⌀12		
		T.F.= (9"X1'6")	8Nos⌀12	8⌀@8"C/C	
10.	C4A	ST.F.= (9"X1'6")	10Nos⌀16	2Nos/Set 8⌀@6"C/C	(ST.F) (F.F) (S.F) (T.F)
		F.F.= (9"X1'3")	8Nos⌀16	8⌀@8"C/C	
		S.F.= (9"X1'3")	8Nos⌀12		
		T.F.= (9"X1'3")	8Nos⌀12		
11.	C5A	ST.F.= (9"X1'6")	8Nos⌀16	8⌀@8"C/C	(ST.F) (F.F) (S.F) (T.F)
		F.F.= (9"X1'6")	8Nos⌀12		
		S.F.= (9"X1'6")	8Nos⌀12		
		T.F.= (9"X1'0")	6Nos⌀12		
12.	C6A	ST.F.= (9"X1'3")	4Nos⌀16+ 4Nos⌀12	8⌀@8"C/C	(ST.F) (F.F) (S.F) (T.F)
		F.F.= (9"X1'3")	6Nos⌀12		
		S.F.= (9"X1'0")	6Nos⌀12		
		T.F.= (9"X1'0")	6Nos⌀12		
13.	C8A	ST.F.= (9"X1'0")	8Nos⌀12	8⌀@8"C/C	(ST.F) (F.F) (S.F) (T.F)
		F.F.= (9"X1'0")	6Nos⌀12		
		S.F.= (9"X1'0")	6Nos⌀12		
		T.F.= (9"X1'0")	6Nos⌀12		

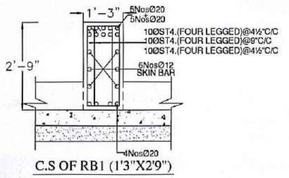
PLINTH BEAM SCHEDULE:



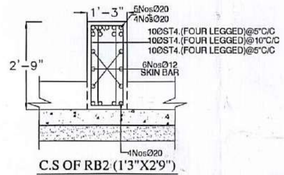
SL. No.	NAME OF PLINTH BEAM	PLINTH BEAM SIZE (BXD)	PLINTH BEAM TOP BAR	PLINTH BEAM BOTTOM BAR	PLINTH BEAM TIE	
1.	PB1	(9"X1'6")	3Nos⌀16	4Nos⌀16	8⌀ST2.@8"C/C	Formed Ground Level
2.	PB2	(9"X1'6")	3Nos⌀16	3Nos⌀16 3Nos⌀16	8⌀ST2.@4"C/C(End 1/3rd Span) 8⌀ST2.@8"C/C(Mid 1/3rd Span) 8⌀ST2.@4"C/C(End 1/3rd Span)	
3.	PB3	(9"X1'6")	3Nos⌀16	3Nos⌀16 2Nos⌀16	8⌀ST2.@5"C/C(End 1/3rd Span) 8⌀ST2.@10"C/C(Mid 1/3rd Span) 8⌀ST2.@5"C/C(End 1/3rd Span)	
4.	PB4	(9"X1'6")	2Nos⌀16	4Nos⌀16	8⌀ST2.@6"C/C	
5.	PB5	(9"X1'3")	2Nos⌀16	4Nos⌀16	8⌀ST2.@6"C/C	
6.	PB6	(9"X1'3")	2Nos⌀16	3Nos⌀16 1Nos⌀12	8⌀ST2.@6"C/C	
7.	PB7	(9"X1'3")	2Nos⌀16	3Nos⌀16	8⌀ST2.@6"C/C	
8.	PB8	(9"X1'3")	2Nos⌀12	2Nos⌀16 1Nos⌀12	8⌀ST2.@6"C/C	
9.	PB9	(9"X1'3")	2Nos⌀12	4Nos⌀12	8⌀ST2.@10"C/C	
10.	PB10	(9"X1'3")	2Nos⌀12	3Nos⌀12	8⌀ST2.@10"C/C	
11.	PB11	(9"X1'3")	2Nos⌀12	2Nos⌀12	8⌀ST2.@10"C/C	



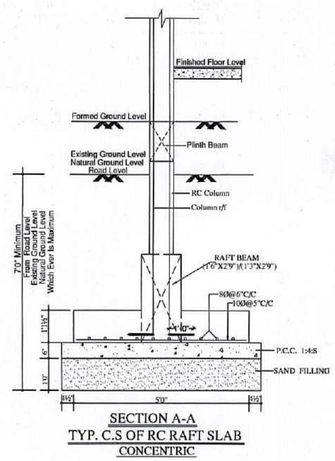
SECTION B-B



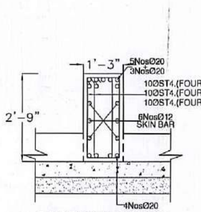
C.S OF RB1 (1'3"X2'9")



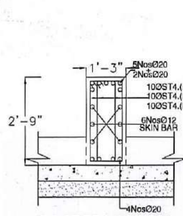
C.S OF RB2 (1'3"X2'9")



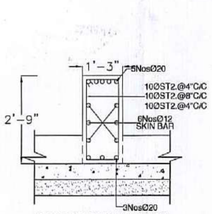
SECTION A-A
TYP. C.S OF RC RAFT SLAB
CONCENTRIC



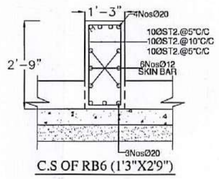
C.S OF RB3 (1'3"X2'9")



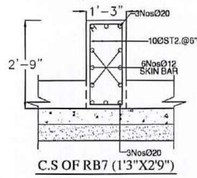
C.S OF RB4 (1'3"X2'9")



C.S OF RB5 (1'3"X2'9")



C.S OF RB6 (1'3"X2'9")



C.S OF RB7 (1'3"X2'9")

IMPORTANT NOTE FOR M-SAND :-

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IMPORTANT NOTE :-

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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) :-

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PROPOSED RESIDENTIAL BUILDING FOR M/S. ASHWANTH CASTLE PVT LTD
AT VEERA RAHAV NAGAR, KATHIRVEDU, CHENNAI.

FOUNDATION DETAILS.

Dwg No... 12190 S-02

DATE : 15.05.2025 SCALE:1/4"-1'-0"

ARCHITECT:

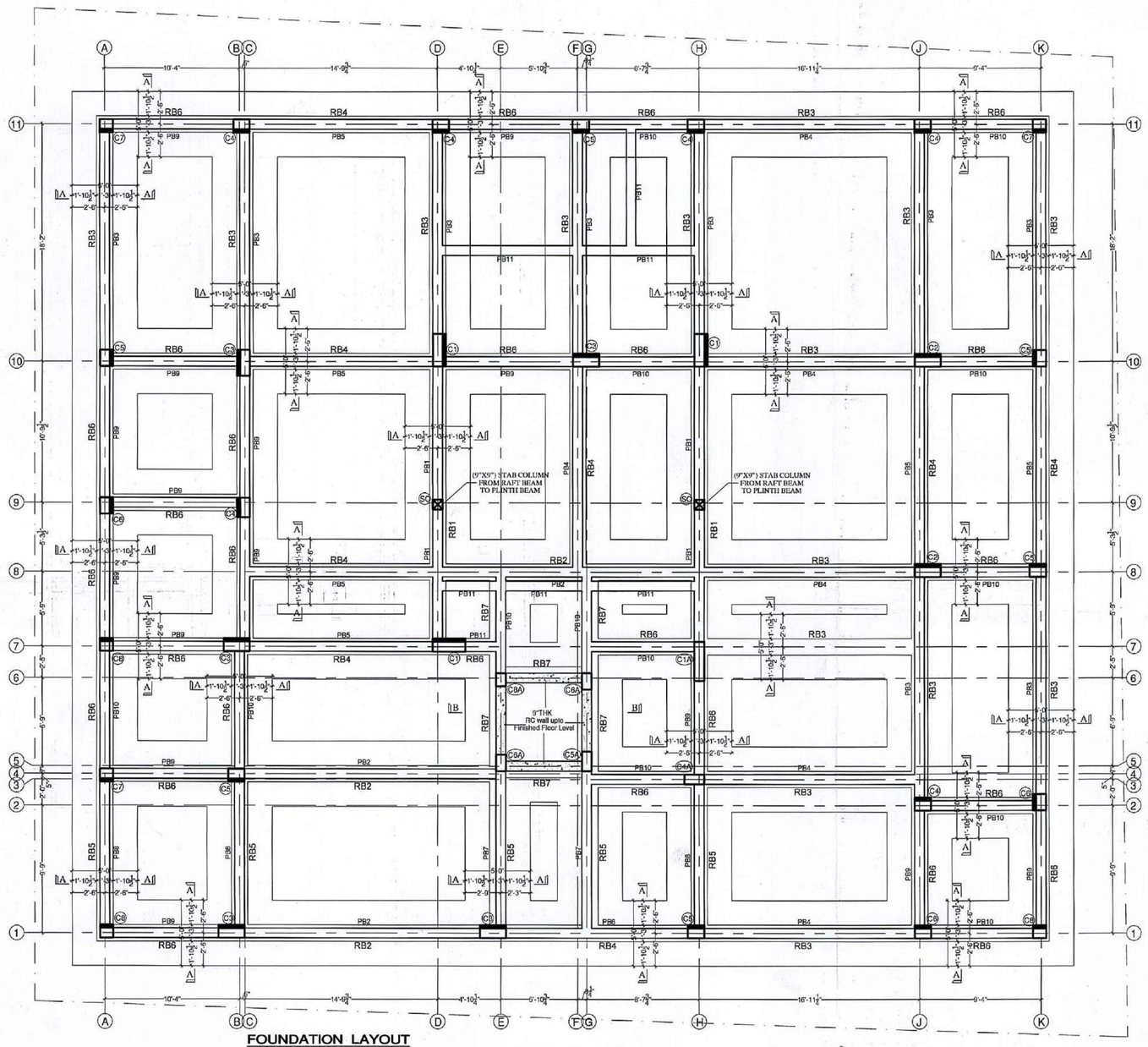
DSND : S.P.S.I

DRN : SENTHILR

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

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Structural Consultant

S. P. S. INBARAJAN, M.E., (STRUCT)
Registered Structural Engineer
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Reg. No. SE/GR-1/2024/2009 dt. 27.02.2024
Grade-I (RSE) in Greater Chennai Corporation
Reg. No. RSE 1/03020/24 Dt. 09.10.2024
Door No.50, Kirupasankari Street, West Mambalam, Chennai-600 033



FOUNDATION LAYOUT

IMPORTANT NOTE :-

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

IMPORTANT NOTE :-
FOR COLUMN , SECTION AND RAFT BEAM DETAIL REFER DRG NO 12190 S-02.

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S. P. S. INBARAJAN, M.E (Struct)
Registered Structural Engineer
Grade-I (RSE) in CMDA
Reg. No. SE/GR-I/2024/02695 dt. 27.02.2024
Grade-I (RSE) in Greater Chennai Corporation
Reg. No. RSE I/003/2024 Dt. 09.10.2024
Door No.5A, Kirupasankari Street,
West Mambalam, Chennai-600 033

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. IN THIS CASE, IT IS ADVISED TO REMOVE THE TOP SOIL OF 4 FEET 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 BOTTOM OF THE TRENCHES SHOULD BE WELL COMPACTED PROPERLY. AS A PRECAUTIONARY MEASURE, SPREAD BRICK-BATS / GRAVELS AND COMPACT THE BOTTOM OF THE PIT.
4. THE FOUNDATION IS DESIGNED FOR SAFE BEARING CAPACITY OF 2.5 TONS/SQ.FT. AND BELOW THE PREPARED SURFACE.

CONCRETE NOTES:-
1. CONCRETE SHALL BE OF GRADE M30 (MIX 1:1.5:3) UNLESS NOTED OTHERWISE. MECHANICAL MIXTURE, MACHINE CONCRETE AND CONCRETE SHALL BE OF EQUAL MIX FOR BEAM SLABS AND COLUMNS FOOTINGS (FOR HAND MIX CONCRETE, EXCEPT FOR PILE, COLUMN CONCRETING, FOR COLUMN CONCRETE THE CEMENT QUANTITY SHALL BE INCREASED BY 10%)
2. 6Ø BARS ARE MILD STEEL REMAINING ALL OTHERS BARS ARE TORSTEEL CONFORMING TO GRADE Fe500.
3. CLEAR COVERS TO MAIN BAR SHALL BE AS FOLLOWS:- RC WALL - 1"(25mm), ROOF SLAB 5/8"(15mm), RC WALL - 1"(25mm), FLOOR SLAB 1"(25mm), FLOOR SLAB 1"(25mm), PILE 2"(50mm), RAFT SLAB 1½"(40mm), RAFT BEAM 2"(50mm)
4. LAP LENGTH SHALL BE OF 50 TIMES THE DIAMETER OF THE BAR IN TENSION. 40 TIMES THE DIAMETER OF THE BAR IN COMPRESSION.
5. FOUNDATION IS DESIGNED FOR STILT FIRST,SECOND & THIRD FLOOR ONLY

REV	DESCRIPTION	CHKD	DRN	DATE
R1	DRAWING REVISED AS PER CLIENT REQUEST	S.P.S.I	SENTHILR	20.05.25

PROPOSED RESIDENTIAL BUILDING FOR M/S. ASHWANTH CASTLE PVT LTD
AT VEERA RAHAV NAGAR, KATHIRVEDU, CHENNAI.

FOUNDATION LAYOUT.

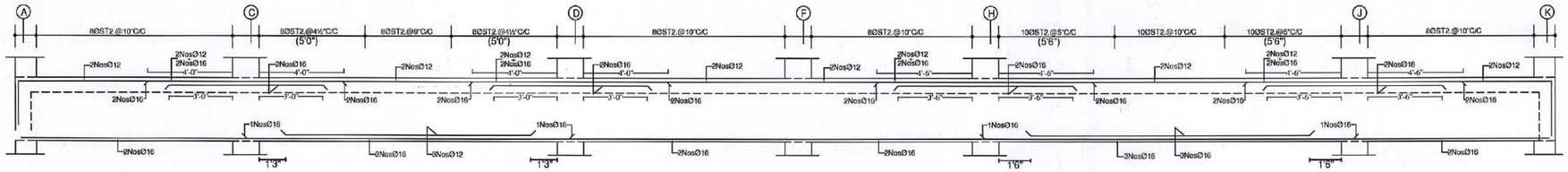
DATE : 16.05.2025 | SCALE:1/4"=1'-0" | Dwg No... 12190 S-01

ARCHITECT:

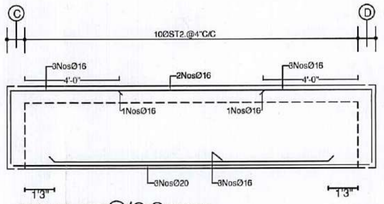
DSND : S.P.S.I

DRN : SENTHILR

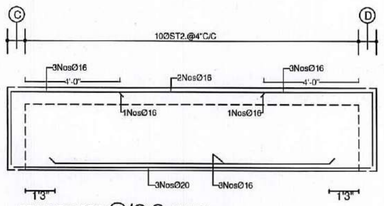
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Consultants - Engineers
No:60, Kirupasankari Street, West Mambalam, Chennai - 600 033. Ph : 2485 46 03
S.P.S.Inbarajan, M.E., A.M.I.E.,
Structural Consultant



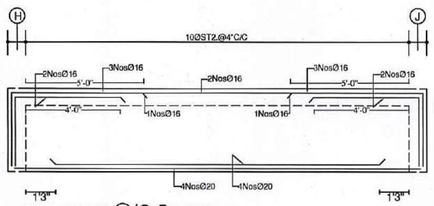
BEAM ON GRID (1)/(A-K) (9"X1'6")



BEAM ON GRID (10)/(C-F) (9"X1'9")

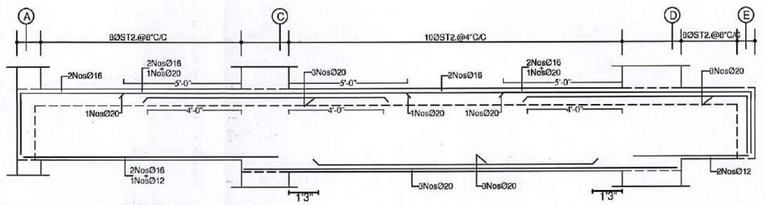


BEAM ON GRID (10)/(C-F) (9"X1'9")

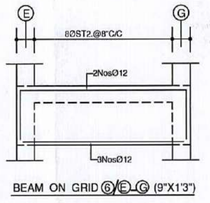


BEAM ON GRID (10)/(H-J) (9"X1'9")

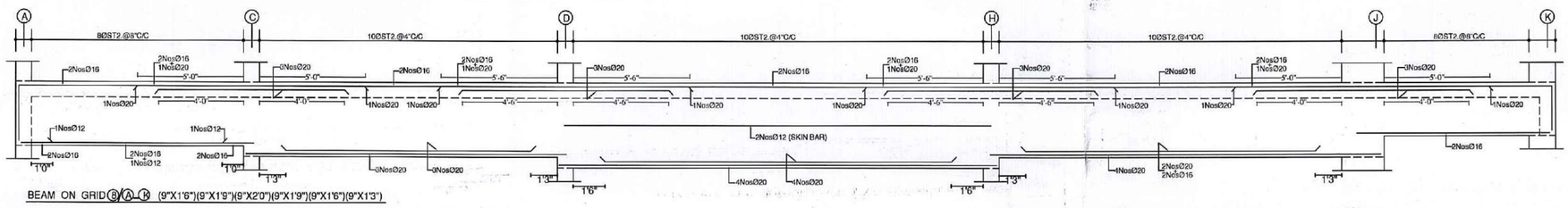
ALSO FOLLOW SIMILAR DETAILS FOR BEAM ON GRID (7)/(B-G)



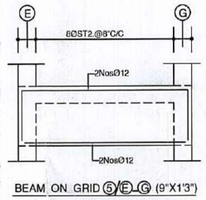
BEAM ON GRID (7)/(A-E) (9"X1'6")(9"X1'9")(9"X1'6")



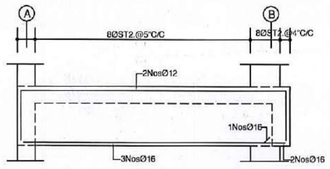
BEAM ON GRID (6)/(E-G) (9"X1'3")



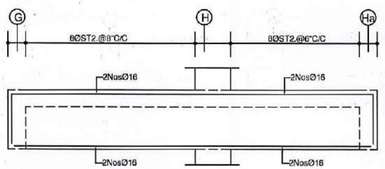
BEAM ON GRID (B)/(A-K) (9"X1'6")(9"X1'9")(9"X2'0")(9"X1'9")(9"X1'6")(9"X1'3")



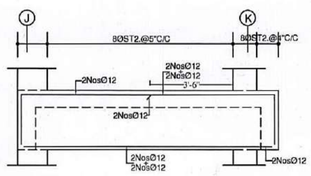
BEAM ON GRID (5)/(E-G) (9"X1'3")



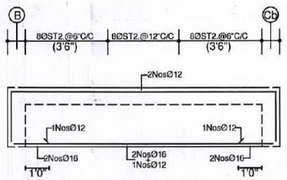
BEAM ON GRID (4)/(A-C) (9"X1'3")



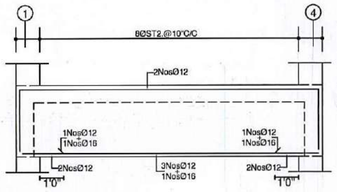
BEAM ON GRID (3)/(G-Ha) (9"X1'3")



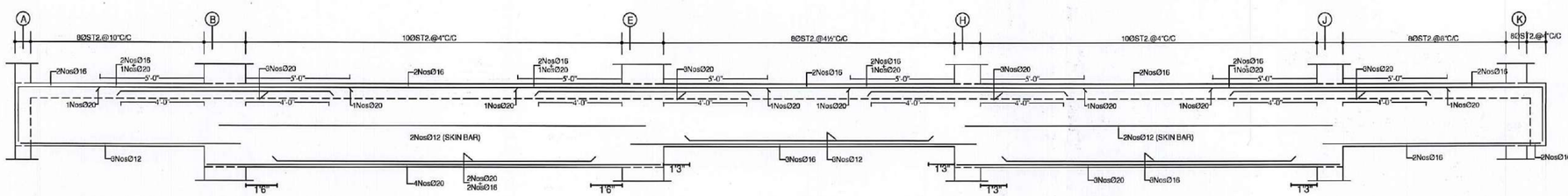
BEAM B3 (4½"X1'3")



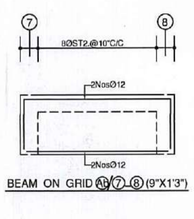
BEAM ON GRID (B)/(B-C) (9"X1'3")



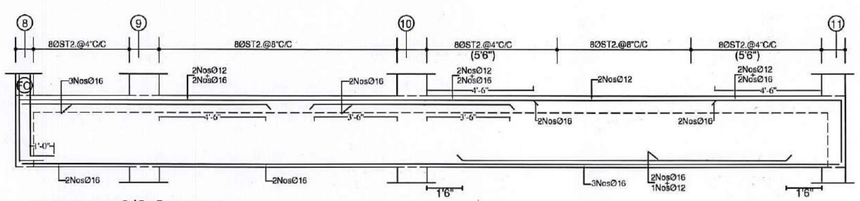
BEAM ON GRID (A)/(1-4) (9"X1'6")



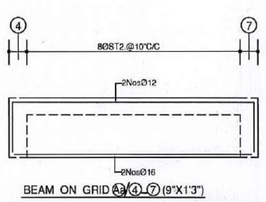
BEAM ON GRID (1)/(A-K) (9"X1'6")(9"X2'0")(9"X1'6")



BEAM ON GRID (A)/(7-8) (9"X1'3")

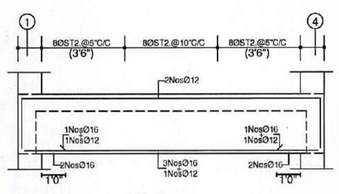


BEAM ON GRID (A)/(8-11) (9"X1'6")



BEAM ON GRID (4)/(4-7) (9"X1'3")

ALSO FOLLOW SIMILAR DETAILS FOR BEAM ON GRID (9)/(1-4)



BEAM ON GRID (B)/(1-4) (9"X1'3")

PROPOSED RESIDENTIAL BUILDING FOR M/S. ASHWANTH CASTLE PVT LTD
AT VEERA RAHAV NAGAR, KATHIRVEDU, CHENNAI.

THIRD FLOOR ROOF
BEAM DETAILS - I

Dwg No...
12190
S-10

DATE : 29. 07. 2005
SCALE: Ht"-3/4"

ARCHITECT:

DSNR : S.P.S.I
DRN : MANGANDAN.D

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BEAM ON GRID Ⓒ/④-⑪ (9"X1'3")(9"X1'9")

BEAM ON GRID Ⓒ/⑧-① (9"X1'9")(9"X1'3")

BEAM ON GRID Ⓒ/①-⑦ (9"X1'9")

ALSO FOLLOW SIMILAR DETAILS FOR BEAM ON GRID Ⓑ/①-⑦

BEAM ON GRID Ⓑ/⑦-① (9"X2'3")(9"X1'9")(9"X1'7½")

BEAM ON GRID Ⓖ/①-⑥ (9"X1'3")

BEAM ON GRID Ⓔ/①-⑦ (9"X1'6")

BEAM ON GRID Ⓕ/⑧-① (9"X1'6")

BEAM ON GRID Ⓗ/⑦-⑪ (9"X2'3")(9"X1'9")

BEAM ON GRID Ⓗ/⑧-① (9"X1'9")(9"X1'6")(9"X1'3")

BEAM ON GRID Ⓙ/①-⑪ (9"X1'6")

BEAM ON GRID Ⓚ/②-⑪ (9"X1'6")

PROPOSED RESIDENTIAL BUILDING FOR M/S. ASHWANTH CASTLE PVT LTD
AT VEERA RAHAV NAGAR, KATHIRVEDU, CHENNAI.

TYPICAL FIRST & SECOND FLOOR ROOF BEAM DETAILS - II

Dwg No... 12190 S -09

DATE : 29.07.2025 SCALE:1¼"=1'-0"

ARCHITECT:

DSND : S.P.S.I

DRN : MANIGANDAN.D

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BEAM ON GRID ①/Ⓐ-Ⓚ (9"X1'6")(9"X1'3")(9"X1'6")(9"X1'4½")(9"X1'6")

BEAM ON GRID 10b/Ⓒ-Ⓓ (9"X1'9")

BEAM ON GRID 10a/Ⓗ-Ⓙ (9"X1'9")

ALSO FOLLOW SIMILAR DETAILS FOR BEAM ON GRID Ⓑ/Ⓓ-Ⓘ

BEAM ON GRID ⑦/Ⓐ-Ⓔ (9"X1'6")(9"X1'9")(9"X1'6")

BEAM ON GRID ⑥/Ⓔ-Ⓖ (9"X1'3")

BEAM ON GRID ⑧/Ⓐ-Ⓚ (9"X1'6")(9"X1'9")(9"X2'0")(9"X1'9")(9"X1'6")(9"X1'3")

BEAM ON GRID ⑤/Ⓔ-Ⓖ (9"X1'3")

BEAM ON GRID ④/Ⓐ-Ⓒ (9"X1'3")

BEAM ON GRID ③/Ⓖ-Ⓗa (9"X1'3")

BEAM B3 (4½"X1'3")

BEAM ON GRID Ⓐ/Ⓑ-Ⓑb (9"X1'3")

BEAM ON GRID Ⓐ/①-⑦ (9"X1'6")(9"X1'3")

BEAM ON GRID ①/Ⓐ-Ⓚ (9"X1'6")(9"X1'9")(9"X2'0")(9"X1'6")

BEAM ON GRID Ⓐ/⑦-⑧ (9"X1'3")

BEAM ON GRID Ⓐ/⑧-⑪ (9"X1'6")(9"X1'4½")

BEAM ON GRID Ⓐ/④-⑦ (9"X1'3")

ALSO FOLLOW SIMILAR DETAILS FOR BEAM ON GRID Ⓑ/Ⓓ-Ⓘ

BEAM ON GRID Ⓑ/①-④ (9"X1'3")

C.S. OF BEAM B2 (4½"X1'3")

C.S. OF BEAM B3 (4½"X1'3")

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PROPOSED RESIDENTIAL BUILDING FOR M/S. ASHWANTH CASTLE PVT LTD
AT VEERA RAHAV NAGAR, KATHIRVEDU, CHENNAI.

STILT FLOOR ROOF
BEAM DETAILS - I

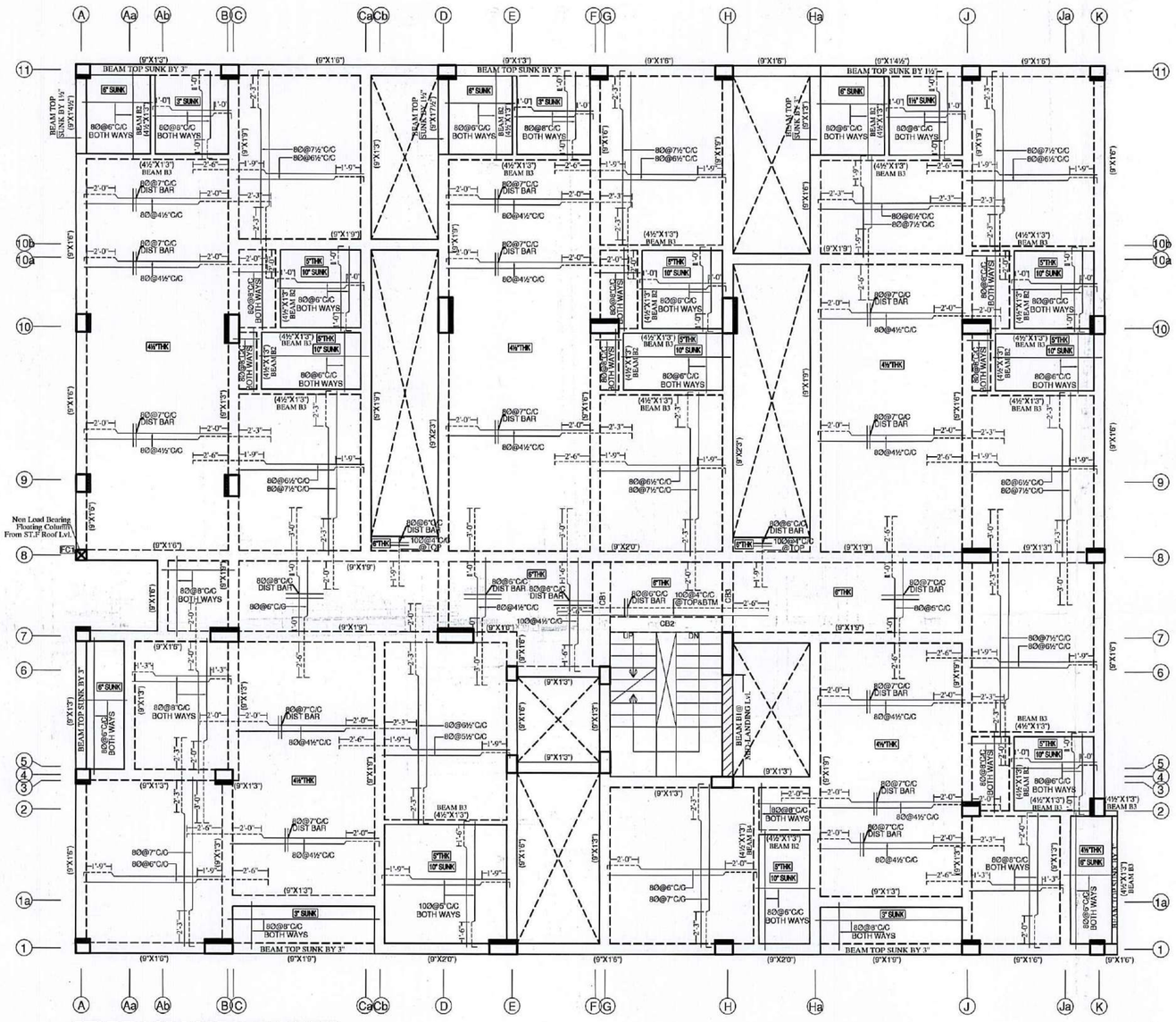
DATE : 29.07.2025 | SCALE: 1/4"-1'-0"

ARCHITECT:

Dwg No... 12190 S-06

DSND : S.P.S.I
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Structural Consultant



STILT FLOOR ROOF SLAB LAYOUT

IMPORTANT NOTES :-

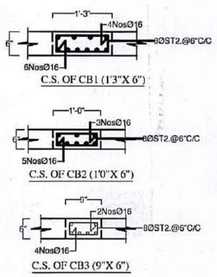
1. ALL SLABS ARE 4" (100mm)THICK. UNLESS NOTED OTHER WISE.
2. PROVIDE 6Ø@6"(150mm)C/C. (OR) 8Ø@10"(250mm)C/C. DISTRIBUTORS WHERE EVER NEEDED AT TOP AND BOTTOM OF SLAB.
3. – – – – – – LINE INDICATES BAR AT TOP IN PLAN. ——————— LINE INDICATES BAR AT BOTTOM IN PLAN.
4. PROVIDE L - BEND FOR TOP REINFORCEMENT BAR AT END OF THE BEAM FOR BEAMS DETAIL GIVEN IN CROSS SECTION. PROVIDE L - BEND 7"(175mm) IN THE SLAB CRANKED REINFORCEMENT BAR IN TO THE BEAM. WHICH ARE NOT CONTINUING TO THE ADJACENT SLAB.

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) :-

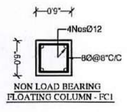
1. FOR M25 GRADE CONCRETE PROVIDE 340 KG CEMENT PER CUBIC MITER OF READY MIX CONCRETE.
2. THE TIME DURATION OF READY MIX CONCRETE SHALL BE AT THE MAXIMUM OF 90 MINUTES TO 100 MINUTES FOR THE BEST STRENGTH RESULT OF CONCRETE.
3. TIME DURATION INCLUDES FROM THE TIME OF WATER ADDING IN THE BATCHING PLANT (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 130 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.



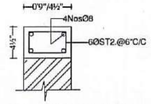
C.S. OF CB1 (1'3"X 6")

C.S. OF CB2 (1'0"X 6")

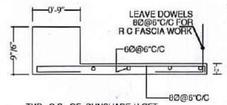
C.S. OF CB3 (9"X 6")



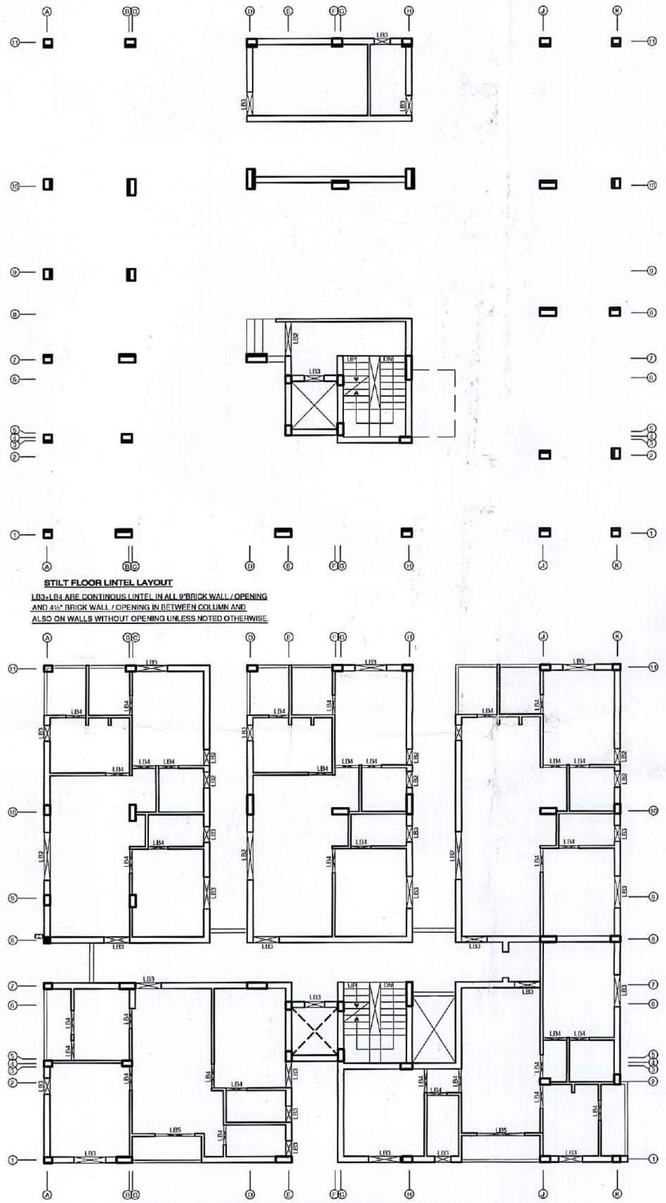
NON LOAD BEARING FLOATING COLUMN - FC1



TYP. C.S. OF SILL LVL BEAM

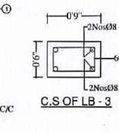


TYP. C.S. OF SUNSHADE / LOFT

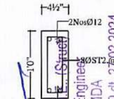


TYPICAL FLOOR LINTEL LAYOUT (FIRST,SECOND&THIRD FLOOR)

LB3+LB4 ARE CONTINOUS LINTEL IN ALL 9"BRICK WALL / OPENING AND 4½" BRICK WALL / OPENING IN BETWEEN COLUMN AND ALSO ON WALLS WITHOUT OPENING UNLESS NOTED OTHERWISE.



C.S OF LB - 2



C.S OF LB - 4

C.S OF LB - 3

C.S OF LB - 1

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Reg. No. RSE/1003/2024 Dt. 09.10.2024
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West Mambalam, Chennai-600 033.

PROPOSED RESIDENTIAL BUILDING FOR M/S. ASHWANTH CASTLE PVT LTD AT VEERA RAHAV NAGAR, KATHIRVEDU, CHENNAI.

STILT FLOOR ROOF SLAB LAYOUT
STILT,FIRST,SECOND&THIRD FLOOR LINTEL LAYOUT

Dwg No.– 12190 S -03

DATE : 29 . 07 . 2025 | SCALE:1/4"-1'0"

ARCHITECT:

DSGND : S.P.S.I

DRN : SUDHA

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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

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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.