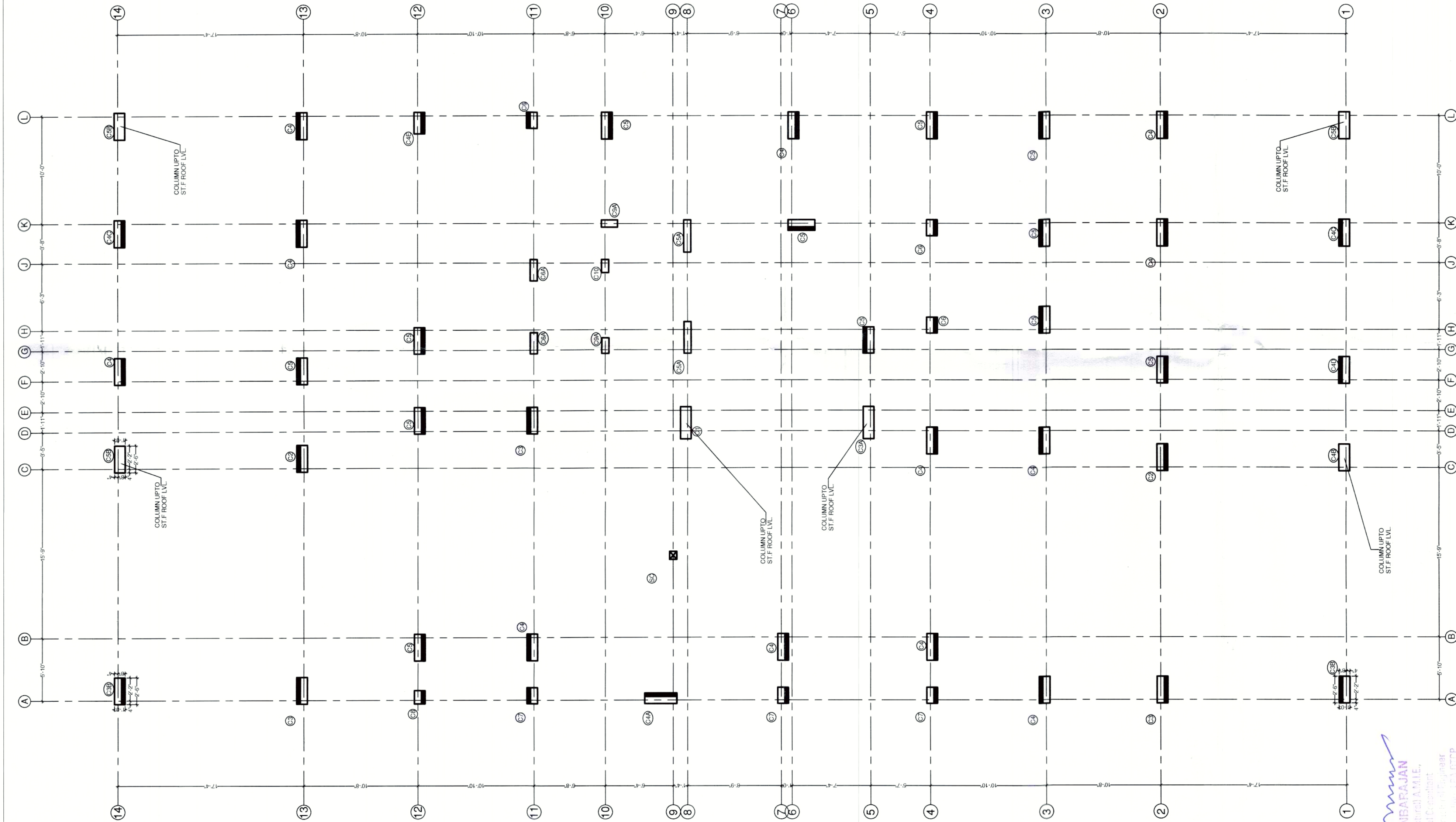






**IMPORTANT NOTE FOR LAYING METHOD FOR READY MIX CONCRETE (RMC) :-**

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. THE DURATION FROM THE TIME OF WATER ADDING IN THE BATCHING PLANT 6(a) TIME OF LOBBY DEPARTURE FROM PLANT, TRAVEL, PUMPING AND LAYING OF CONCRETE ON FORM WORK.
4. AFTER 60 MINUTES TO 90 MINUTES ON LAYING OF CONCRETE SOME HAIRLINE / MINOR SHRINKAGE CRACKS WILL DEVELOP ON THE TOP SURFACE OF THE CONCRETE. TO RECTIFY THIS, POUR THICK CEMENT SLURRY, FILL IT AND PACK IT WITH BROOM.
5. THE CONCRETE TOP SURFACE SHOULD BE SPRAYED WITH WATER TO START CURING AFTER 120 MINUTES TO 150 MINUTES FROM THE TIME OF CONCRETE LAYING.
6. START CURING WITH STORING WATER ON TOP OF CONCRETE AFTER 240 MINUTES TO 300 MINUTES FROM THE TIME OF CONCRETE LAYING.

**IMPORTANT NOTE :-**

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

CONCRETE SHOULD BE DONE MONOLITHICALLY FOR CANTILEVER SLABS AND BEAMS CONSTRUCTION JOINT IN TAKE A PUNCH ALSO IF WE TAKE A PUNCH OR DRIED M-SAND ON OUR HAND ANY DUST PRESENCE WILL STICK ON TO OUR PALM OR OUR HAND.

**IMPORTANT NOTE FOR M-SAND :-**

PLAN SHALL BE REPLACED BY M-SAND FULLY OR PARTIALLY IN ANY PROPORTION FOR SAND SHALL BE REPLACED BY M-SAND FULLY OR PARTIALLY IN ANY PROPORTION FOR FOR COLUMN CONCRETE, REINFORCEMENT CEMENT CONCRETE EXCEPT COLUMN 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 PUNCH ALSO IF WE TAKE A PUNCH OR DRIED M-SAND ON OUR HAND ANY DUST PRESENCE WILL STICK ON TO OUR PALM OR OUR HAND.

**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 SAME LEVEL EXCEED 125" THEN PROVIDE SECOND LEVEL PLINTH BEAM AT BASEMENT LEVEL 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 TO GROUND FLOOR ROOF SLAB TOP LEVEL EXCEED 125" THEN PROVIDE SECOND LEVEL PLINTH BEAM AT BASEMENT LEVEL FOR THIS DEPTH OF COLUMN FOUNDATION SHALL BE TAKEN BELOW THE SEPTIC TANK, SUMP BASE SLAB BOTTOM LEVEL.

FOOTING LAYOUT

**S.P.S. INBARAJAN**  
M.E., (STRUCTURAL)  
REGISTERED CIVIL ENGINEER  
REGISTERED STRUCTURAL ENGINEER  
GRADUATE IN CIVIL ENGINEERING  
Reg. No. 51552/1999-2021 (01.10.2020) 2024  
Door No. 50, Kinnasankar Street,  
West Mambalam, Chennai - 600 033.

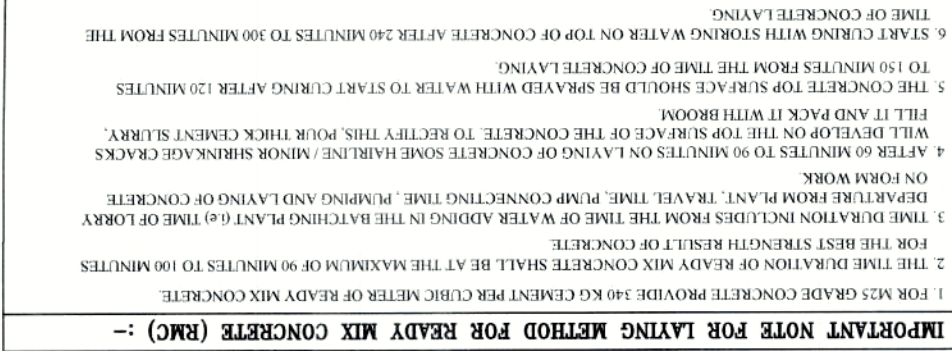
|                                                                                                                                                                                                                              |  |                                                  |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------|--|
| <b>PROPOSED RESIDENTIAL BUILDING FOR M.S. AYODHYAMS)</b><br><b>AT MAHARAJA NAGAR, TIRUNELVELI, TAMILNADU FOR M.S. SRI SHARADA ESTATES</b><br>NO 60, Kinnasankar Street, West Mambalam,<br>Chennai - 600 033. Ph : 2485 48 03 |  | <b>Dwg No..</b><br><b>12306</b>                  |  |
| <b>S.P.S. Inbarajan, M.E., A.M.I.E.,</b><br>Structural Consultant                                                                                                                                                            |  | <b>S - 02</b>                                    |  |
| <b>BOURNA</b><br>Consultants - Engineers                                                                                                                                                                                     |  | <b>ARCHITECT:</b>                                |  |
| <b>DATE:</b> 04.07.2025                                                                                                                                                                                                      |  | <b>SCALE:</b> 1/4" = 3'                          |  |
| <b>DRN: SENTHIL R</b>                                                                                                                                                                                                        |  | <b>DRN: SENTHIL R</b>                            |  |
| <b>REV</b>                                                                                                                                                                                                                   |  | <b>DESCRIPTION</b>                               |  |
| <b>R1</b>                                                                                                                                                                                                                    |  | <b>DRAWING REVISION</b><br>AS PER REVISED DEMAND |  |
| <b>S.P.S.I</b>                                                                                                                                                                                                               |  | <b>S.P.S.I</b>                                   |  |
| <b>SENTHIL R</b>                                                                                                                                                                                                             |  | <b>SENTHIL R</b>                                 |  |
| <b>20.09.25</b>                                                                                                                                                                                                              |  | <b>DATE</b>                                      |  |

**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 CM OF NATURAL SOIL AND REPLACE WITH QUARRY DUST / SAND / GRAVEL FOR GROUND FLOOR FLOORING.
3. AFTER THE EXCAVATION, THE FOUNDATION TRENCHES SHOULD BE PROPERLY AS A PRECAUTIONARY MEASURE, SPREAD BRICK-BATS / GRAVELS AND COMPACT THE BOTTOM OF THE PIT BE PLACED OVER THIS PREPARED SURFACE.

**CONCRETE NOTES:**

1. CONCRETE SHALL BE OF GRADE M25 (M15 + 15%) UNLESS NOTED OTHERWISE.
2. REBAR AREA DETAIL, REBARING, ALL OTHERS BARS BE DETAIL CONTRASTING TO GRADE, COLOR, BE DETAIL CONTRASTING TO GRADE, COLOR.
3. CLEAR COVER TO MAIN RF SHALL BE AS FOLLOWS:  
COLUMN FOOTING: 75(50mm) COLUMN: 15(75mm),  
ROOF BEAM: 17(25mm), PILE CAP: 75(50mm) & PILE: 25(50mm).
4. LAP LENGTH SHALL BE (8-50 TIMES THE DIAMETER OF THE BAR) OR 450mm, WHICHEVER IS GREATER.  
60 TIMES THE DIAMETER OF SMALLER BAR IN TENSION.
5. FOUNDATION IS DESIGNED FOR STILL, FIRST SECOND, THIRD, FOURTH & FIFTH FLOOR ONLY.



|                                 |                                                                                                                                                                                                                                                                                        |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>IMPORTANT NOTE :-</b></p> | <p>1) CONCRETING AT SITE SHALL BE STARTED ONLY AFTER VERIFYING ALL FABRICATION OF REINFORCEMENT BAR DONE FOR VARIOUS MEMBERS, (i.e) BEAMS, SLAB, COLUMNS, FOOTINGS, ETC. AND SHOULD BE CHECKED AS PER THE STRUCTURAL LATEST DIVISION DRAWINGS FOR FABRICATION OF REINFORCEMENT BAR</p> |
|                                 | <p>2) CONCRETE SHOULD BE FOLLOWED AS PER DIRECTIONS GIVEN BY QUALIFIED CIVIL ENGINEER / SITE IN-CHARGE ENGINEER FOR CANTILEVER SLABS AND BEAMS. CONSTRUCTION JOINT IN</p>                                                                                                              |

**IMPORTANT NOTE FOR M-SAND :-**  
SAND SHALL BE USED FOR M-SAND FULLY OR PARTIALLY IN ANY PROPORTION FOR PLAIN CONCRETE, REINFORCEMENT CEMENT CONCRETE EXCEPT COLUMN CONCRETE. FOR COLUMN CONCRETE BETTER TO USE SAND ALONE FOR CONCRETE. M-SAND SHOULD BE FREE FROM FINEST AT SITE AT THE TIME OF USE AND FOR CONCRETE AT CERTAIN HEIGHTS. IN ANY DIST PRESENCE WILL ON THE AIR, ALSO BE PRESENT IN THE AIR AND ALSO IF WE TAKE A PINCH OF BREADED M-SAND ON OUR HAND AND DIST PRESENCE WILL STICK ON TO OUR PALM OF OUR HAND

**IMPORTANT NOTE :-**

1. ALL CENTER LINE DIMENSIONS TO BE CHECKED BY ARCHITECT BEFORE SETTING OUT OF PLAIN AT SITE.

2. DOR COLUMN WHICH ARE ADJACENT TO THE RAMP BASE L&B, SPURF TANK BASE L&B, FOR THIS DEPTH OF COLUMN FOUNDATION SHOULD BE TAKEN IN L&B WITH THE DUMP BASE L&B/SPURF TANK.

3. DEPTH OF COLUMN FOUNDATION SHALL BE TAKEN BELOW THE SPURF TANK/SP&B BASE L&B BOTTON LEVEL.

4. THE HEIGHT OF THE COLUMN BETWEEN FIRST LEVEL PLINTH BASE LEVEL TO GROUND FLOOR ROOF SHALL BE 7.15M.

5. SAME LEVEL EXCEPT 12" SHALL BE PROVIDED SECOND LEVEL PLINTH BASE AT AVERAGE DETAIL FOR THIS LEVEL.

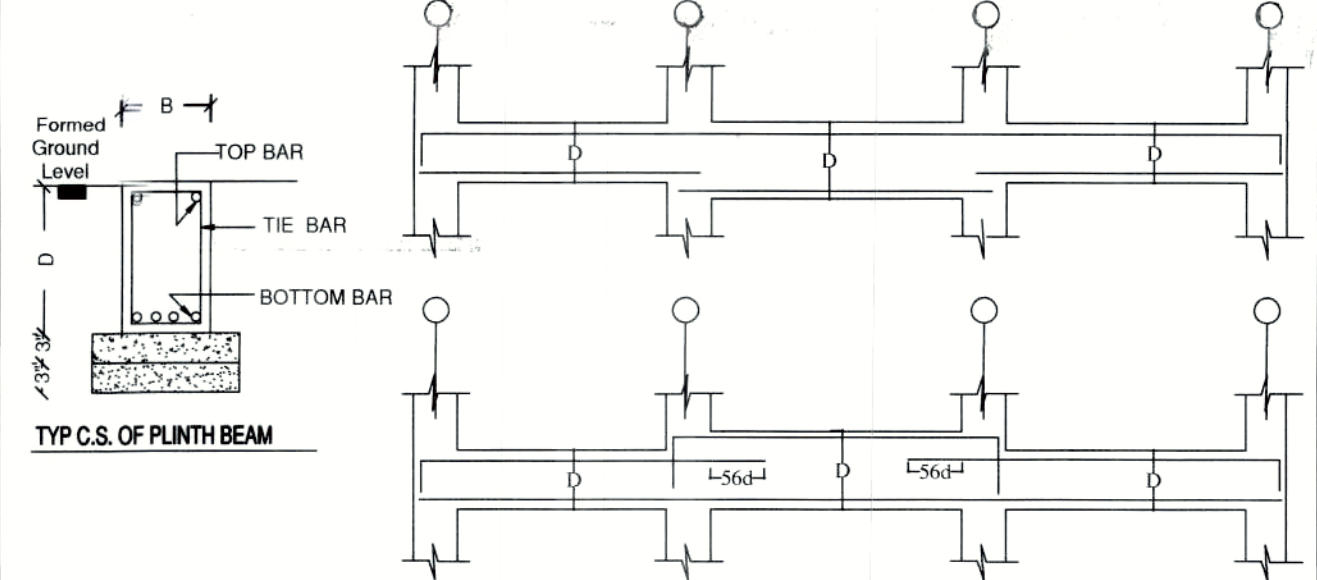
6. SAME LEVEL IN PLINTH BASE SHALL BE OF SIZE (Ø 90"x 120mm)x(Ø 300mm) WITH (NOMINAL Ø 20" VAN D).

**S. P. S. INBARAJAN**  
M.E., Structural A.M.I.E.,  
Structural Consultant  
Registered Professional Engineer  
Grade II, Government of India  
Reg. No. SC-06789, valid till 20.09.2024  
Door No. 10, 1st Floor, 3rd Street,  
West Marudurai, Chennai - 600 033.

[illegible]



PLINTH BEAM SCHEDULE:



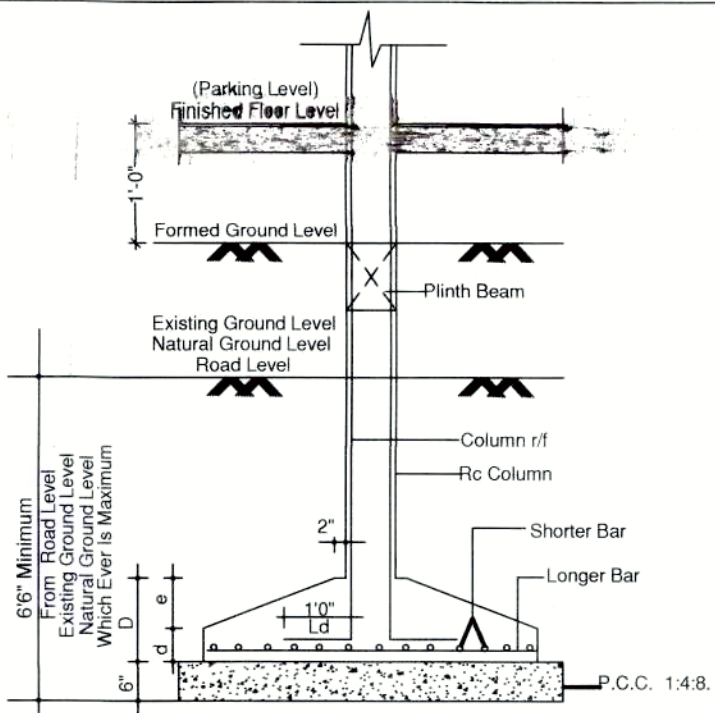
| SL. No. | NAME OF PLINTH BEAM | PLINTH BEAM SIZE (BXD) | PLINTH BEAM TOP BAR | PLINTH BEAM BOTTOM BAR | PLINTH BEAM TIE                                                                                     |  |
|---------|---------------------|------------------------|---------------------|------------------------|-----------------------------------------------------------------------------------------------------|--|
| 1.      | PB1                 | (8"X16")               | 3NosØ16             | 3NosØ16                | 10ØST2 @ 7"C/C                                                                                      |  |
| 2.      | PB2                 | (8"X16")               | 3NosØ16             | 3NosØ16                | 10ØST2 @ 5"C/C(End 1/3rd Span)<br>10ØST2 @ 10"C/C(Mid 1/3rd Span)<br>10ØST2 @ 5"C/C(End 1/3rd Span) |  |
| 3.      | PB3                 | (8"X16")               | 3NosØ16             | 3NosØ16                | 8ØST2 @ 5"C/C(End 1/3rd Span)<br>8ØST2 @ 10"C/C(Mid 1/3rd Span)<br>8ØST2 @ 5"C/C(End 1/3rd Span)    |  |
| 4.      | PB4                 | (8"X13")               | 2NosØ16             | 3NosØ16                | 8ØST2 @ 8"C/C                                                                                       |  |
| 5.      | PB5                 | (8"X13")               | 2NosØ16             | 3NosØ16                | 8ØST2 @ 8"C/C                                                                                       |  |
| 6.      | PB6                 | (8"X13")               | 2NosØ12             | 2NosØ16<br>1NosØ12     | 8ØST2 @ 8"C/C                                                                                       |  |
| 7.      | PB7                 | (8"X13")               | 2NosØ12             | 2NosØ12<br>1NosØ16     | 8ØST2 @ 8"C/C                                                                                       |  |
| 8.      | PB8                 | (8"X13")               | 2NosØ12             | 3NosØ12                | 8ØST2 @ 10"C/C                                                                                      |  |
| 9.      | PB9                 | (8"X13")               | 2NosØ12             | 2NosØ12                | 8ØST2 @ 10"C/C                                                                                      |  |

FOOTING SCHEDULE:

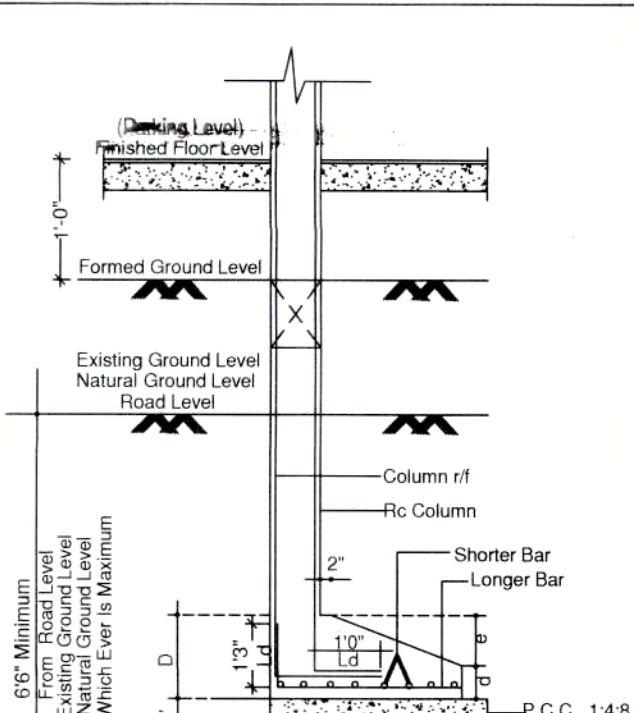
| SL. No. | FOOTING MARK | FOOTING SIZE |          |           |      |           | FOOTING REINFORCEMENT          |             | Nos Of FOOTING |
|---------|--------------|--------------|----------|-----------|------|-----------|--------------------------------|-------------|----------------|
|         |              | L            | B        | D         | d    | e         | LONGER BAR                     | SHORTER BAR |                |
| 1.      | F1           | 13'0"        | 9'6"     | 3'7 1/2"  | 1'3" | 2'7 1/2"  | 32NosØ12                       | 44NosØ12    |                |
| 2.      | F2           | 10'3"        | 10'3"    | 3'4 1/2"  | 1'0" | 2'4 1/2"  | 34NosØ12                       | 34NosØ12    |                |
| 3.      | F3           | 9'9"         | 9'9"     | 3'3"      | 1'0" | 2'3"      | 31NosØ12                       | 31NosØ12    |                |
| 4.      | F4           | 9'4 1/2"     | 9'4 1/2" | 3'1 1/2"  | 1'0" | 2'1 1/2"  | 29NosØ12                       | 29NosØ12    |                |
| 5.      | F5           | 9'0"         | 9'0"     | 3'0"      | 1'0" | 2'0"      | 27NosØ12                       | 27NosØ12    |                |
| 6.      | F6           | 7'6"         | 7'6"     | 2'4 1/2"  | 1'0" | 1'4 1/2"  | 20NosØ12                       | 20NosØ12    |                |
| 7.      | F7           | 7'1 1/2"     | 7'1 1/2" | 2'3"      | 1'0" | 1'3"      | 18NosØ12                       | 18NosØ12    |                |
| 8.      | F8           | 6'9"         | 6'9"     | 2'1 1/2"  | 1'0" | 1'1 1/2"  | 21NosØ10                       | 21NosØ10    |                |
| 9.      | F9           | 6'4 1/2"     | 6'4 1/2" | 2'0"      | 1'0" | 1'0"      | 19NosØ10                       | 19NosØ10    |                |
| 10.     | F10 (LIFT)   | 11'10"       | 9'10"    | 2'0"      | -    | -         | 10Ø@4"C/C BOTHWAYS @TOP&BOTTOM |             |                |
| 11.     | F11          | 20'0"        | 8'0"     | 3'6"      | 1'3" | 2'3"      | 12Ø@4"C/C BOTHWAYS @BOTTOM     |             |                |
| 12.     | F12          | 9'9"         | 5'6"     | 2'10 1/2" | 1'0" | 1'10 1/2" | 16NosØ12                       | 29NosØ12    |                |
| 13.     | F13          | 9'3"         | 5'3"     | 2'9"      | 1'0" | 1'9"      | 15NosØ12                       | 27NosØ12    |                |
| 14.     | SC           | 3'0"         | 3'0"     | 0'9"      | -    | -         | 5NosØ8                         | 5NosØ8      |                |

IMPORTANT NOTE :-

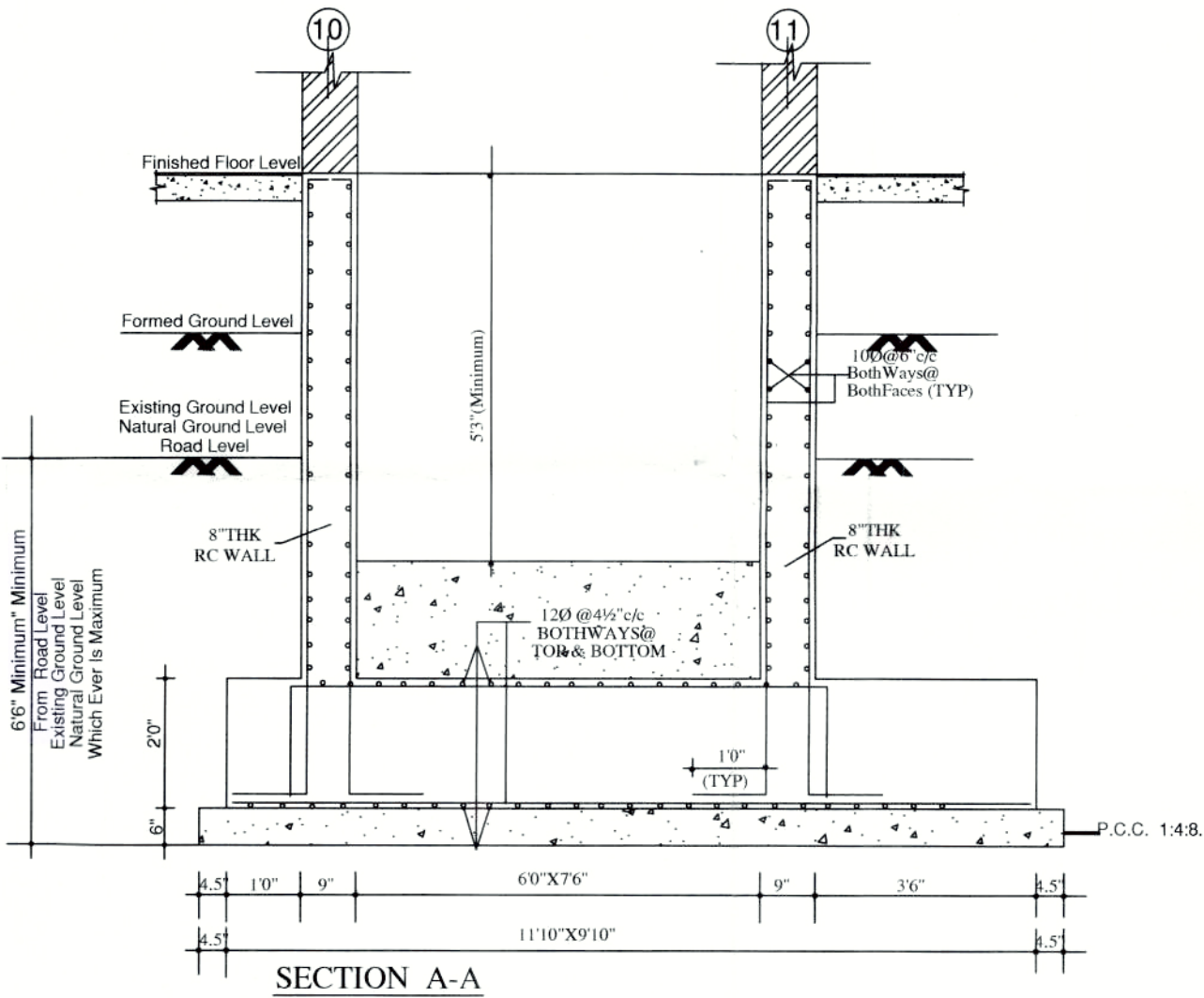
- CONCRETING AT SITE SHALL BE STARTED ONLY AFTER VERIFYING ALL FABRICATION OF REINFORCEMENT BAR DONE FOR VARIOUS MEMBERS, (Via) BEAMS, SLABS, COLUMNS, FOOTINGS, ETC. AND SHOULD BE CHECKED AS PER THE STRUCTURAL LATEST REVISION DRAWINGS FOR FABRICATION OF REINFORCEMENT BAR.
- CONCRETE SHOULD BE DONE MONOLITHICALLY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



TYP. C. S. OF R. C COLUMN FOOTING  
CONCENTRIC



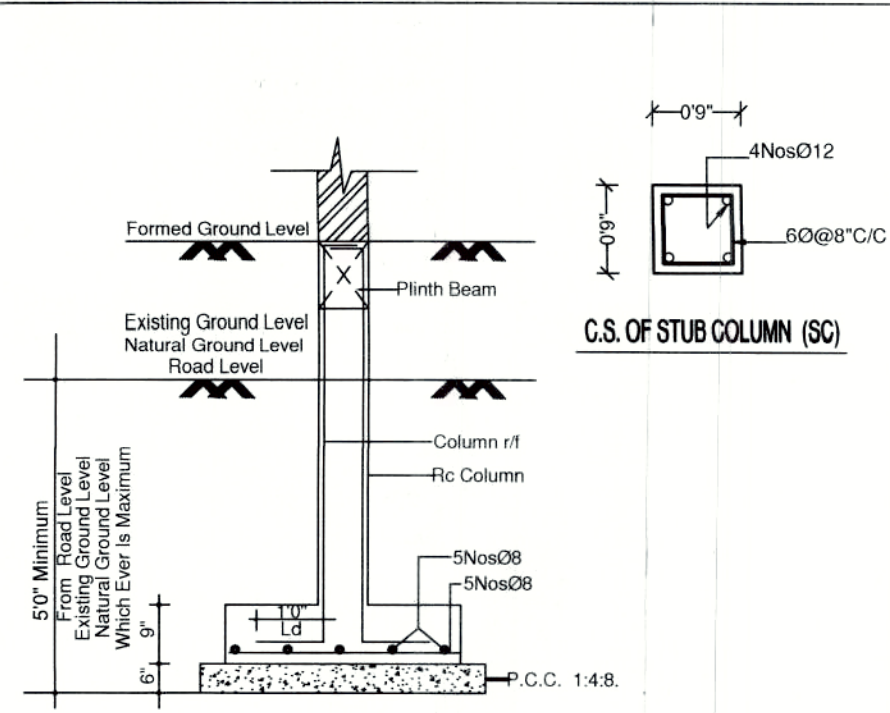
TYP. C. S. OF R. C COLUMN FOOTING  
ECCENTRIC



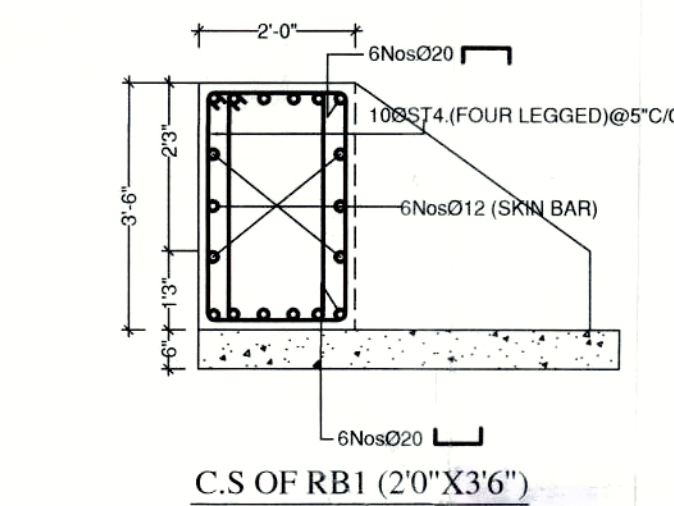
SECTION A-A

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

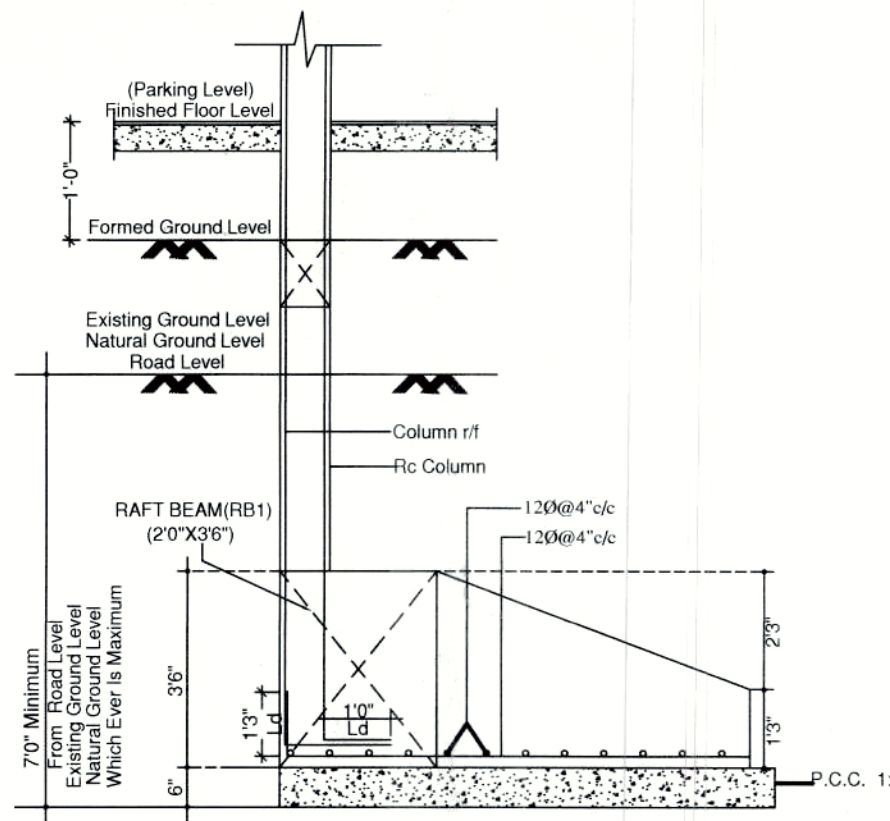
- FOR M25 GRADE CONCRETE PROVIDE 340 KG CEMENT PER CUBIC METER OF READY MIX CONCRETE.
- THE TIME DURATION OF READY MIX CONCRETE SHALL BE AT THE MAXIMUM OF 90 MINUTES TO 100 MINUTES FOR THE BEST STRENGTH RESULT OF CONCRETE.
- TIME DURATION INCLUDES FROM THE TIME OF WATER ADDING IN THE BATCHING PLANT (i.e) TIME OF LORRY DEPARTURE FROM PLANT, TRAVEL TIME, PUMP CONNECTING TIME, PUMPING AND LAYING OF CONCRETE ON FORM WORK.
- 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.
- THE CONCRETE TOP SURFACE SHOULD BE SPRAYED WITH WATER TO START CURING AFTER 120 MINUTES TO 150 MINUTES FROM THE TIME OF CONCRETE LAYING.
- START CURING WITH STORING WATER ON TOP OF CONCRETE AFTER 240 MINUTES TO 300 MINUTES FROM THE TIME OF CONCRETE LAYING.



TYP. C. S. OF R. C STUB COLUMN FOOTING  
CONCENTRIC



C.S OF RB1 (2'0"X3'6")



C.S OF RB1 (2'0"X3'6")  
SECTION A-A

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.

PROPOSED RESIDENTIAL BUILDING FOR M/S. AYODHYA (M5)  
AT MAHARAJA NAGAR, TIRUNELVELI, TAMILNADU FOR M/S. SRI SHARADA ESTATES

Dwg No...  
12306

S -05

FOUNDATION DETAILS-II.

DATE: 04-07-2025

SCALE: 1/4", 3/4"

ARCHITECT:

NO 50, Kirupasanankari Street, West Manabalam,  
Chennai - 600 033. Ph : 2485 46 03

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

BOURNA  
Consultants - Engineers

DSND : S.P.S.I  
DRN : SENTHIL R

DRAWING REVISED  
AS PER ARCHITECT COMMENT

DESCRIPTION

CHKD

DRN

DATE

20.09.25

SENTHIL R

S.P.S.I