

# FOUNDATION LAYOUT



- NOTES:**
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  - USE CONCRETE - M25 (DESIGN MIX) FOR ALL RCC WORKS.
  - MINIMUM CEMENT CONTENT SHALL NOT BE LESS THAN 340 KG/CUM FOR M25 CONCRETE.
  - HIGH YIELD STRENGTH DEFORMED BARS Fe 500D CONFIRMING IS 1786-1985 TO BE USED
  - NO ADMIXTURES SHALL BE ADDED WITHOUT PERMISSION OF CONSULTANT
  - CLEAR COVER TO REINFORCEMENT FOR FOOTING : 50MM, COLUMN 40MM, R.C.C WALL AND BEAM 30MM, SLAB 25MM.
  - DEVELOPMENT LENGTH OF BAR Ld AS 46 Ø IN TENSION 37 Ø IN COMPRESSION, WHERE Ø = DIA OF BAR
  - FOR ALL OTHER RCC GENERAL NOTES REFER SHEET NO.A1
  - FOLLOW DUCTILE DETAILING AS PER IS13920(REFER SHEET NO.A)
  - STRUCTURE IS DESIGNED FOR (G+1) FLOORS ONLY.
  - THE SAFE LOAD BEARING CAPACITY OF SOIL IS 30 Ton/Sq.M AT 2.5M DEPTH AS PER SOIL REPORT.

**ARCHITECTS:**

**n:a NANDA & ASSOCIATES ARCHITECTS**  
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**STRUCTURAL CONSULTANTS:**

**SCPL**  
SAKTHI CONSULTANCY PRIVATE LIMITED

**SAKTHI CONSULTANCY**  
 No.10, Bandhu Street, F1-Accacia Flats, Ganapathy Nagar, Nagalkeni, Chrompet, Chennai-600 044.  
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**PROJECT :**  
 PROPOSED CONSTRUCTION OF INDIAN BANK'S RURAL SELF EMPLOYMENT TRAINING INSTITUTE AT KRISHNAGIRI.

**TITLE :**  
 FOUNDATION LAYOUT DETAILS

<b>DRAWN :</b>	PRATHEIK	<b>DATE :</b>	08/11/2025
<b>CHECKED :</b>	C.ARUN	<b>SHEET NO :</b>	01
<b>APPROVED :</b>	C.ARUN	<b>REV NO :</b>	0
<b>SCALE :</b>	1:100		
<b>PROJECT NUMBER :</b>	SCPL/6/2024-25		

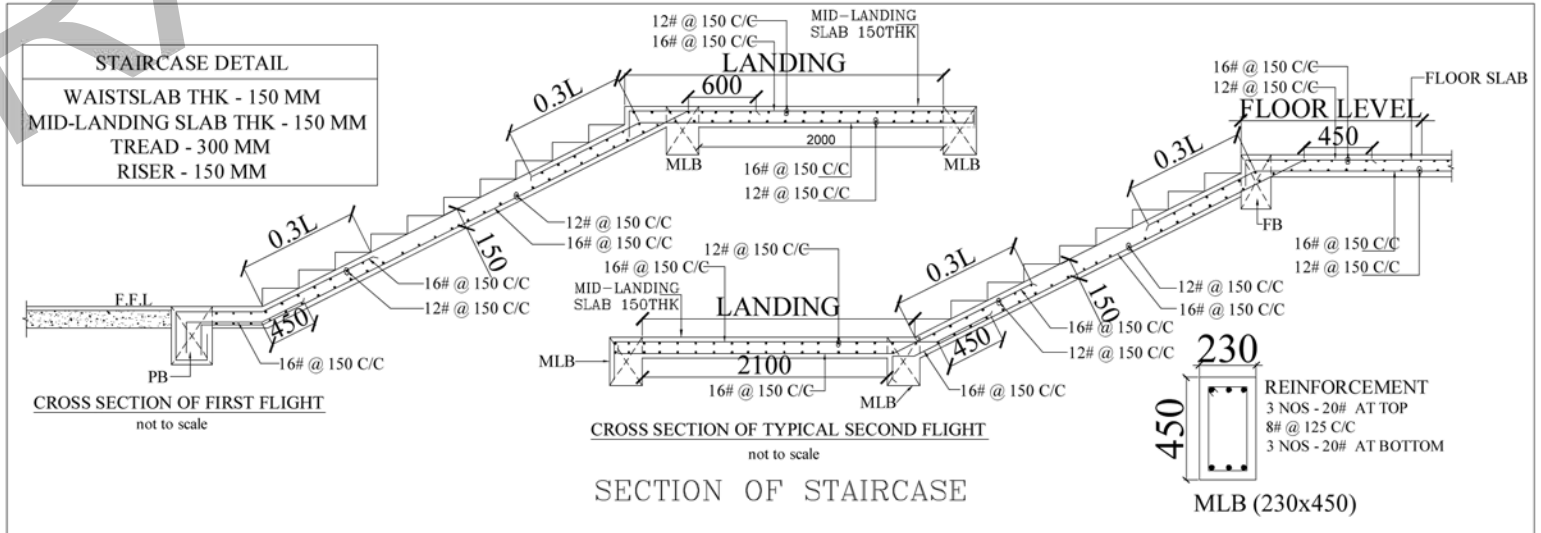
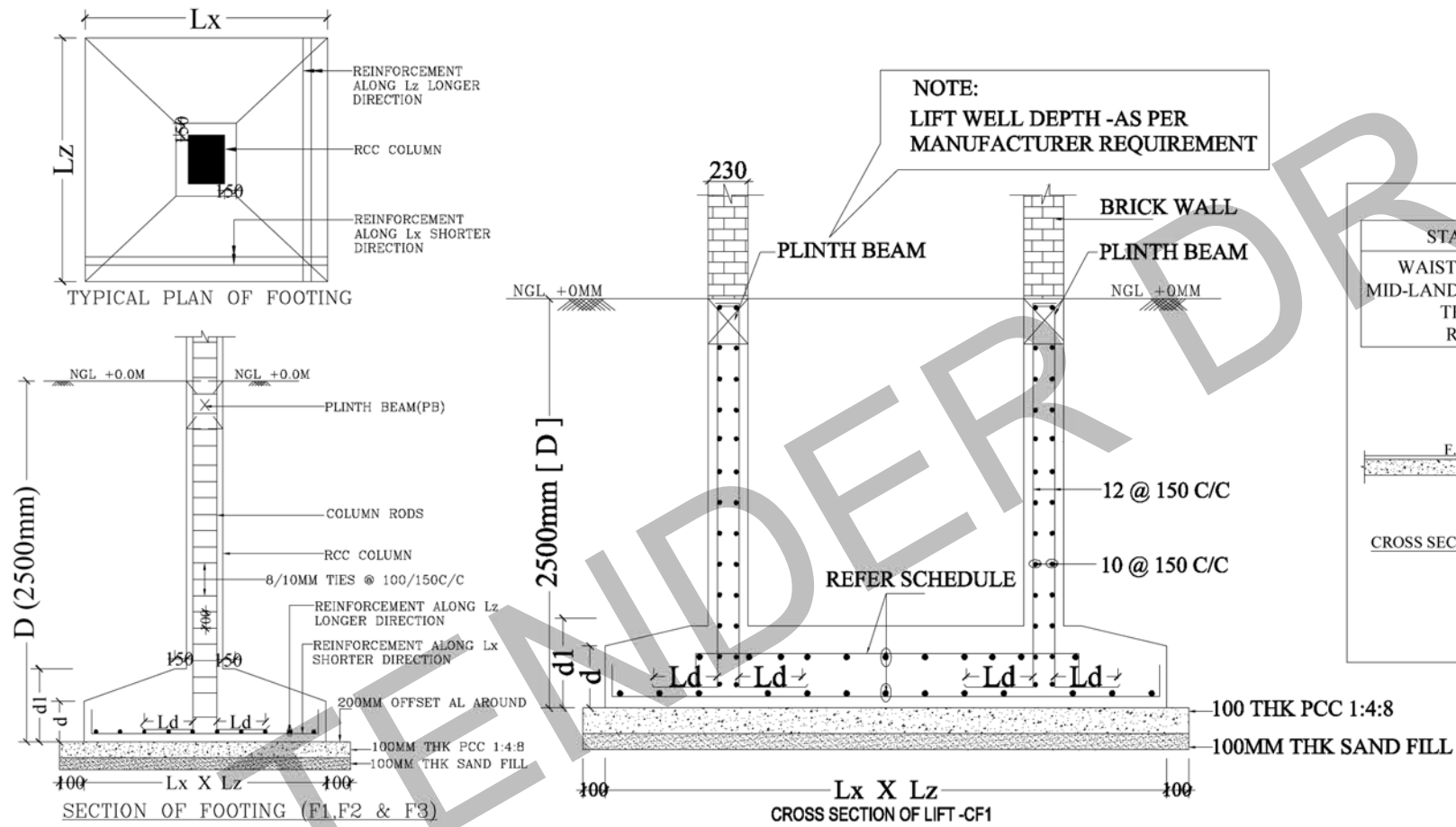


### SCHEDULE OF FOOTINGS

S. NO	NAME OF FOOTING	SIZE Lx X Lz SHORTER DIRECTION Lx x LONGER DIRECTION Lz	d	d1	D	REINFORCEMENT		NO OF FOOTING	REMARKS
						SHORTER DIRECTION Lx	LONGER DIRECTION Lz		
1	F1	1500 x 1500	250	450	2500	12# @ 150 C/C	12# @ 150 C/C	07	ISOLATED FOOTING
2	F2	1800 x 1800	250	450	2500	12# @ 125 C/C	12# @ 125 C/C	33	ISOLATED FOOTING
3	F3	2100 x 2100	250	550	2500	12# @ 125 C/C	12# @ 125 C/C	02	ISOLATED FOOTING
4	CF1	4000 x 4000	250	600	2500	12# @ 125 C/C 12# @ 125 C/C	12# @ 125 C/C 12# @ 125 C/C	01	COMBINED FOOTING

### SCHEDULE OF RCC

SL NO	NAME OF COLUMN	SIZE OF THE COLUMN	SECTION	SHAPE OF TIES	REINFORCEMENT	STIRRUPS		NO OF COLUMNS
						NEAR SUPPORT(H/4)	MIDDLE SPAN(H/2)	
1	C1	230 X 375			• 6 NOS-16#	8# @ 100 C/C	8# @ 150 C/C	06
2	C2	230 X 450			• 8 NOS-16#	8# @ 100 C/C	8# @ 150 C/C	04
3	C3	230 X 450			• 10 NOS-20#	8# @ 100 C/C	8# @ 150 C/C	03
4	C4	300 X 450			• 8 NOS-20#	8# @ 100 C/C	8# @ 150 C/C	17
5	C5	300 X 450			• 10 NOS-20#	8# @ 100 C/C	8# @ 150 C/C	08
6	C6	300 X 450			• 8 NOS-25#	8# @ 100 C/C	8# @ 150 C/C	08



### FOUNDATION SECTION DETAILS

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#### STRUCTURAL CONSULTANTS:



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#### PROJECT :

PROPOSED CONSTRUCTION OF INDIAN BANK'S RURAL SELF EMPLOYMENT TRAINING INSTITUTE AT KRISHNAGIRI.

#### TITLE :

FOUNDATION & COLUMN SECTION DETAILS

DRAWN : PRATHEIK

CHECKED : C.ARUN

APPROVED : C.ARUN

SCALE : 1:100

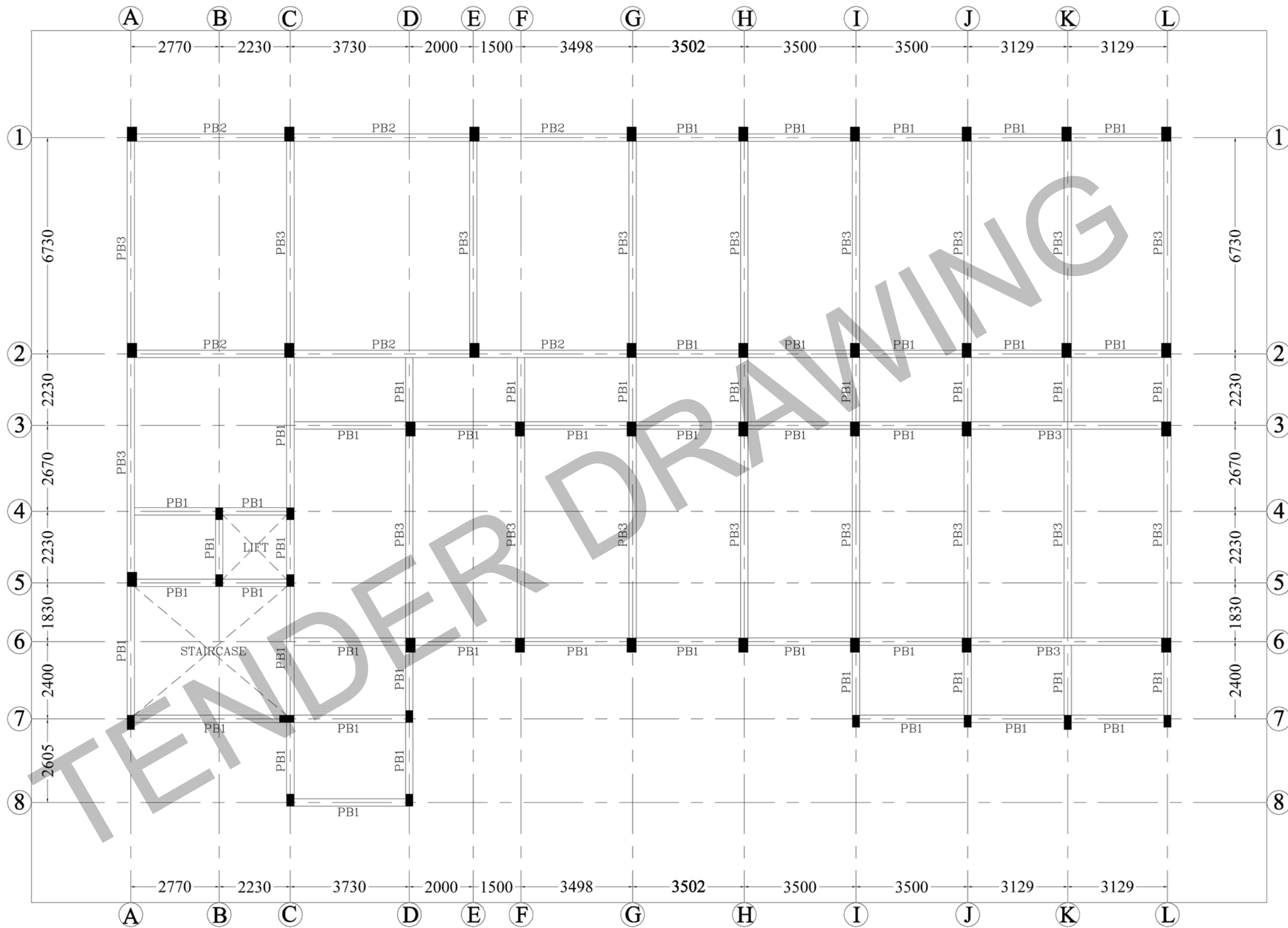
PROJECT NUMBER : SCPL/6/2024-25

DATE : 08/11/2025

SHEET NO : 02

REV NO : 0





TIE BEAM LAYOUT AT +00MM LVL



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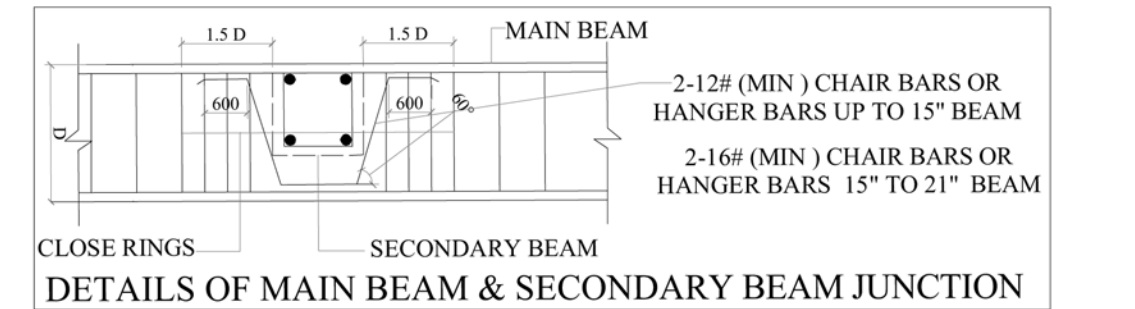
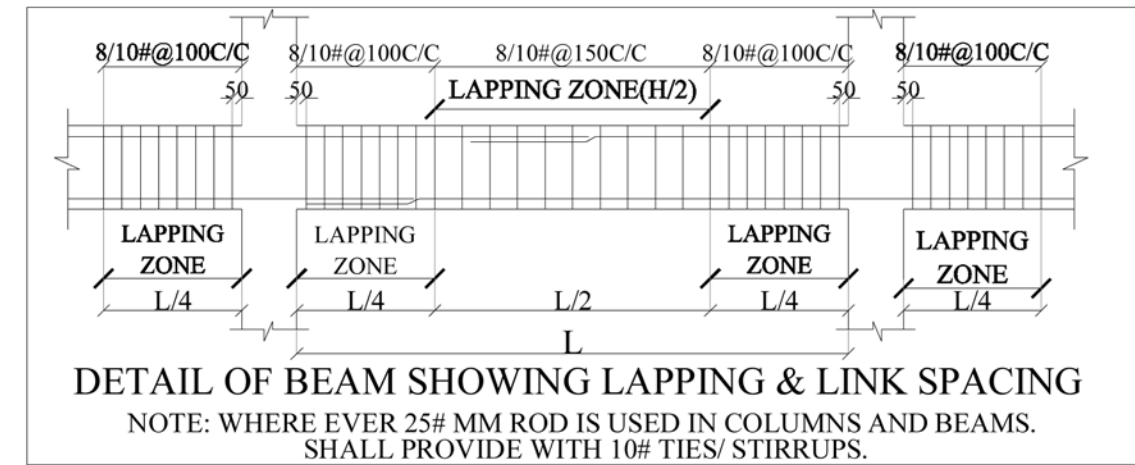
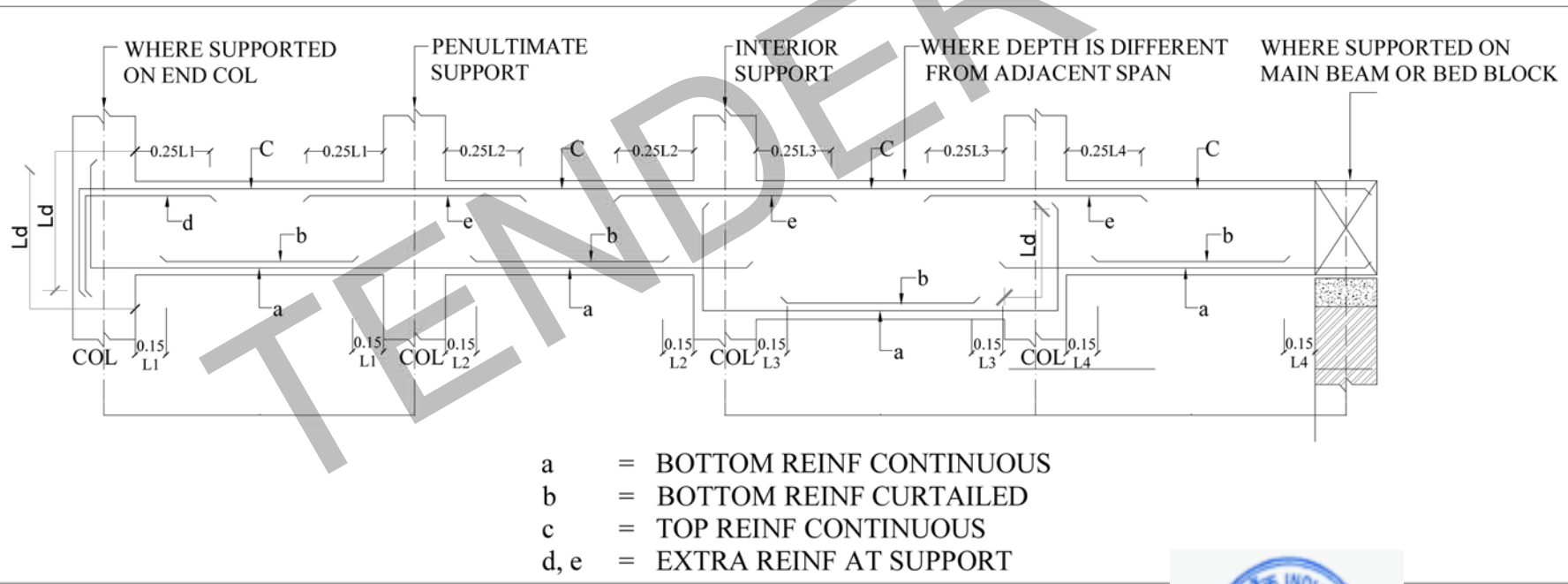
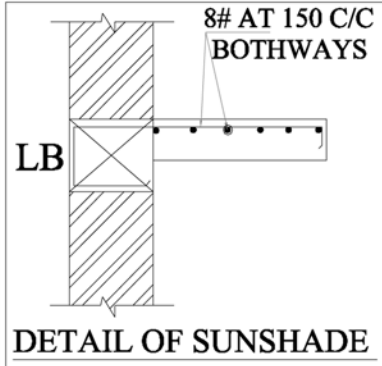
**TITLE :**  
TIE BEAM LAYOUT DETAILS

DRAWN	: PRATHEIK	DATE	:08/11/2025
CHECKED	: C.ARUN	SHEET NO	: 03
APPROVED	: C.ARUN	REV NO	: 0
SCALE	: 1:100		
PROJECT NUMBER	: SCPL/6/2024-25		



# SCHEDULE OF TIE BEAM DETAILS

SL No	BEAM DESIGNATION	SIZE		SPAN 'L'	MAIN REINFORCEMENT						STIRRUPS		REMARKS
		WIDTH	DEPTH		BOTTOM BARS STRAIGHT	BOTTOM BARS EXTRA AT CENTRE	TOP BARS STRAIGHT	TOP BARS EXTRA AT DIS CONT/[END] SUPPORT	TOP BARS EXTRA AT CONT [penultimate] SUPPORT	TOP BARS EXTRA AT CONT [interior] SUPPORT	NEAR SUPPORT(L/4)	MIDDLE SPAN(L/2)	
		'a'	'b'		'c'	'd'	'e'	'e'	DIA [#]-C/C	DIA [#]-C/C			
					N0-DIA [#]	N0-DIA [#]	N0-DIA [#]	N0-DIA [#]	N0-DIA [#]	N0-DIA [#]			
01	PB1	230	300	-	2-16	-	2-16	1-16	1-16	1-16	8# @ 100 C/C	8# @ 150 C/C	
02	PB2	230	375	-	2-16	-	2-16	2-16	2-16	2-16	8# @ 100 C/C	8# @ 150 C/C	
03	PB3	230	450	-	2-16	-	2-16	2-16	2-16	2-16	8# @ 100 C/C	8# @ 150 C/C	



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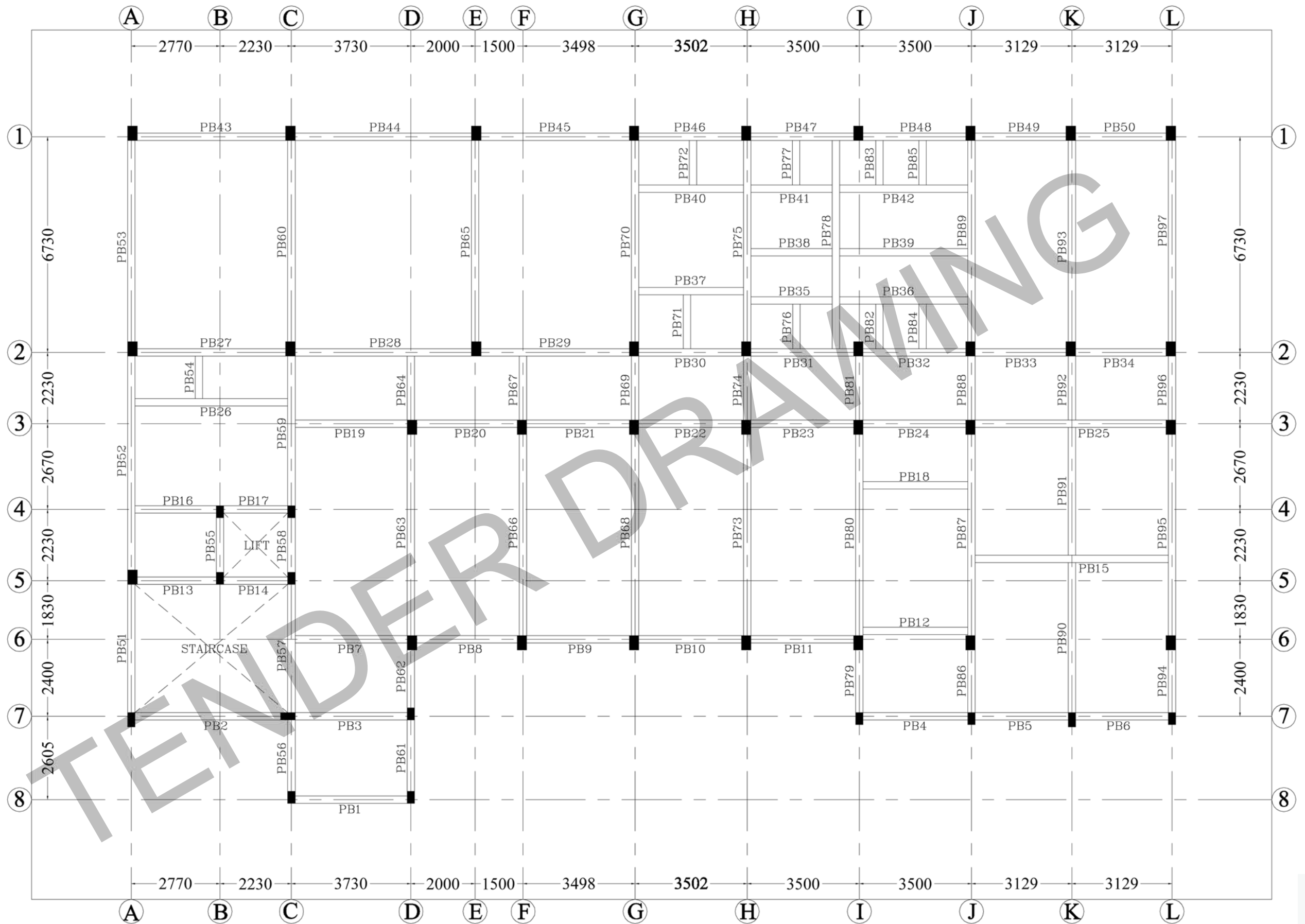
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**PROJECT :**  
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**TITLE :**  
 TIE BEAM SECTION DETAILS

**DRAWN :** PRATHEIK  
**CHECKED :** C.ARUN  
**APPROVED :** C.ARUN  
**SCALE :** 1:100  
**PROJECT NUMBER :** SCPL/6/2024-25

**DATE :** :08/11/2025  
**SHEET NO :** :04  
**REV NO :** :0



## PLINTH BEAM LAYOUT AT +900MM LVL



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**TITLE :**

PLINTH BEAM LAYOUT

DRAWN : PRATHEIK

CHECKED : C.ARUN

APPROVED : C.ARUN

SCALE : 1:100

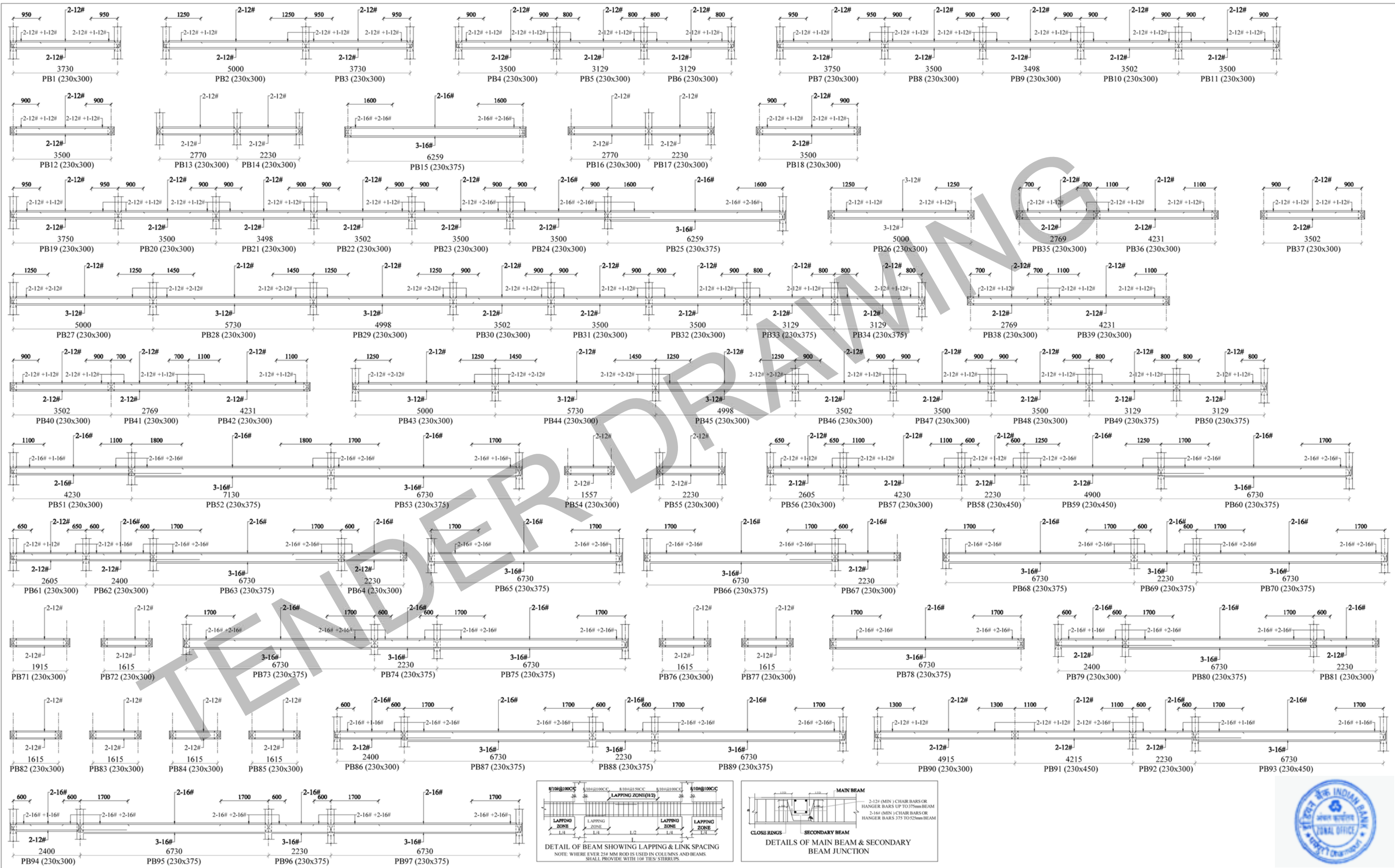
PROJECT NUMBER : SCPL/6/2024-25

DATE :08/11/2025

SHEET NO : 05

REV NO : 0





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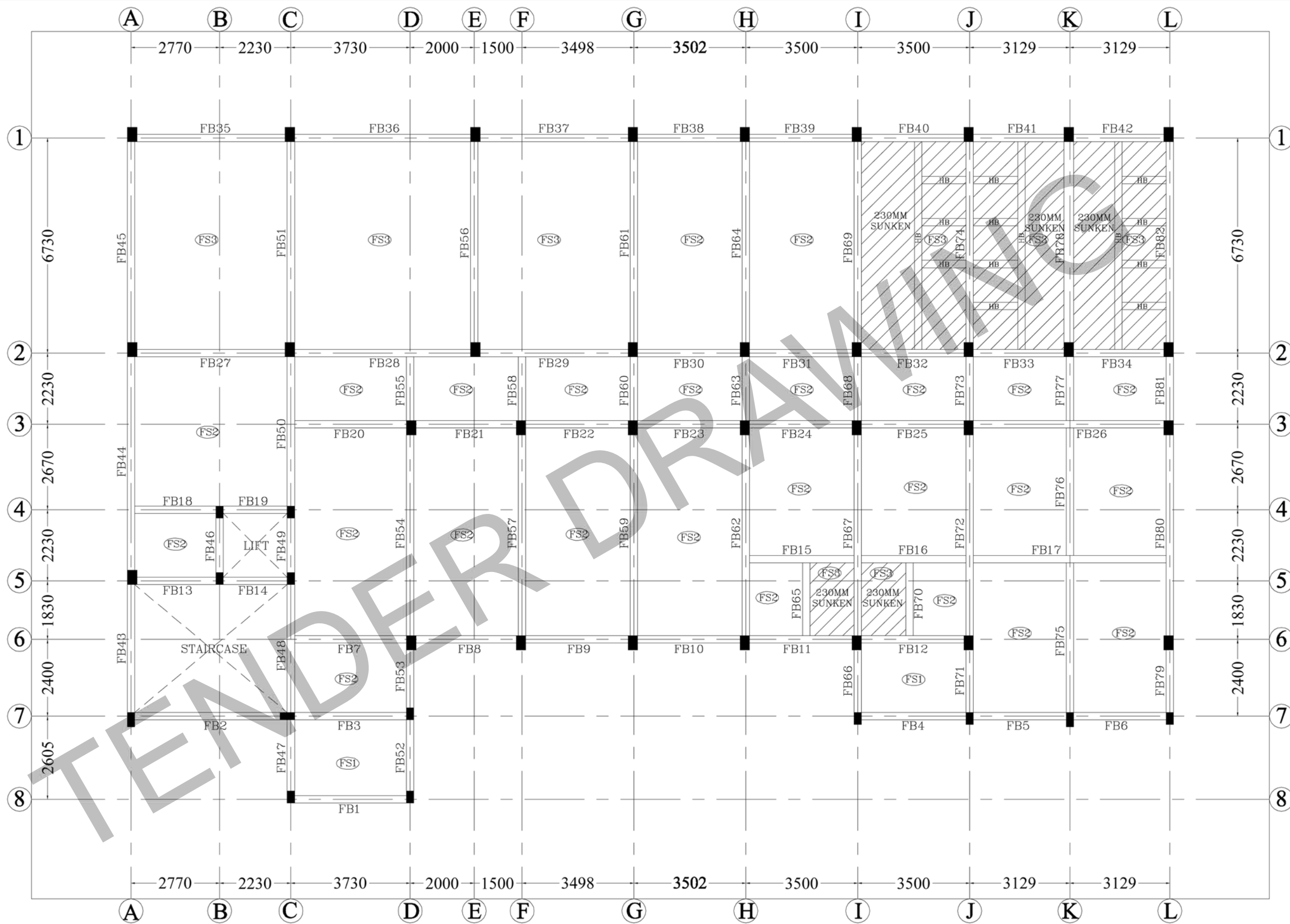
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**TITLE :**  
PLINTH BEAM SECTION DETAILS

**DRAWN :** PRATHEIK  
**CHECKED :** C.ARUN  
**APPROVED :** C.ARUN  
**SCALE :** 1:100  
**PROJECT NUMBER :** SCPL/6/2024-25

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GROUND FLOOR ROOF BEAM LAYOUT AT +4200MM LVL



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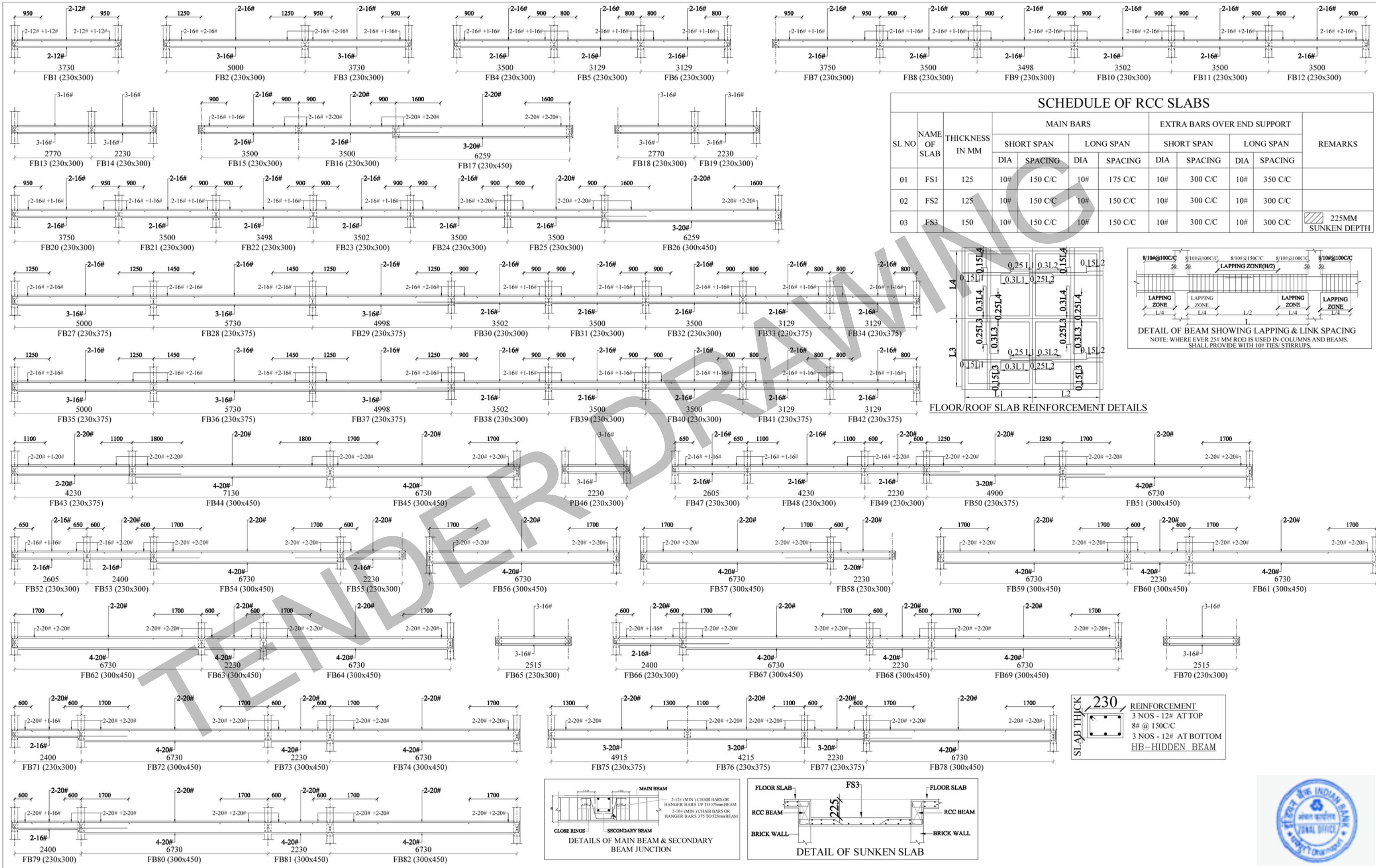
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GROUND FLOOR ROOF BEAM LAYOUT

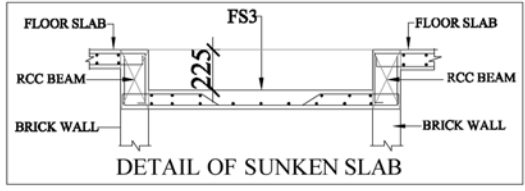
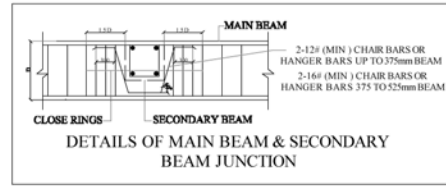
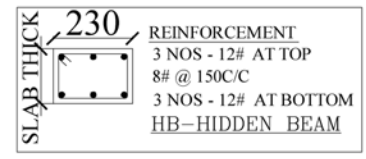
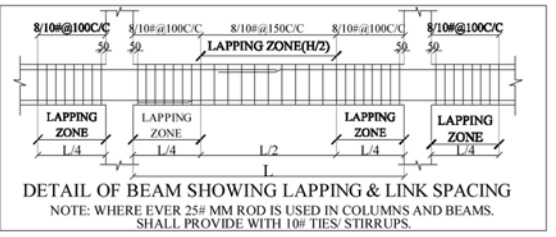
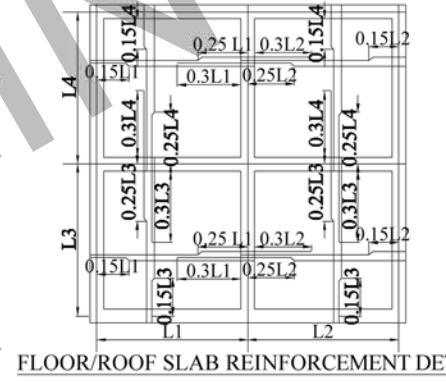
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**SCALE :** 1:100  
**PROJECT NUMBER :** SCPL/6/2024-25

**DATE :** 08/11/2025  
**SHEET NO :** 07  
**REV NO :** 0



### SCHEDULE OF RCC SLABS

SL NO	NAME OF SLAB	THICKNESS IN MM	MAIN BARS				EXTRA BARS OVER END SUPPORT				REMARKS
			SHORT SPAN		LONG SPAN		SHORT SPAN		LONG SPAN		
			DIA	SPACING	DIA	SPACING	DIA	SPACING	DIA	SPACING	
01	FS1	125	10#	150 C/C	10#	175 C/C	10#	300 C/C	10#	350 C/C	
02	FS2	125	10#	150 C/C	10#	150 C/C	10#	300 C/C	10#	300 C/C	
03	FS3	150	10#	150 C/C	10#	150 C/C	10#	300 C/C	10#	300 C/C	225MM SUNKEN DEPTH



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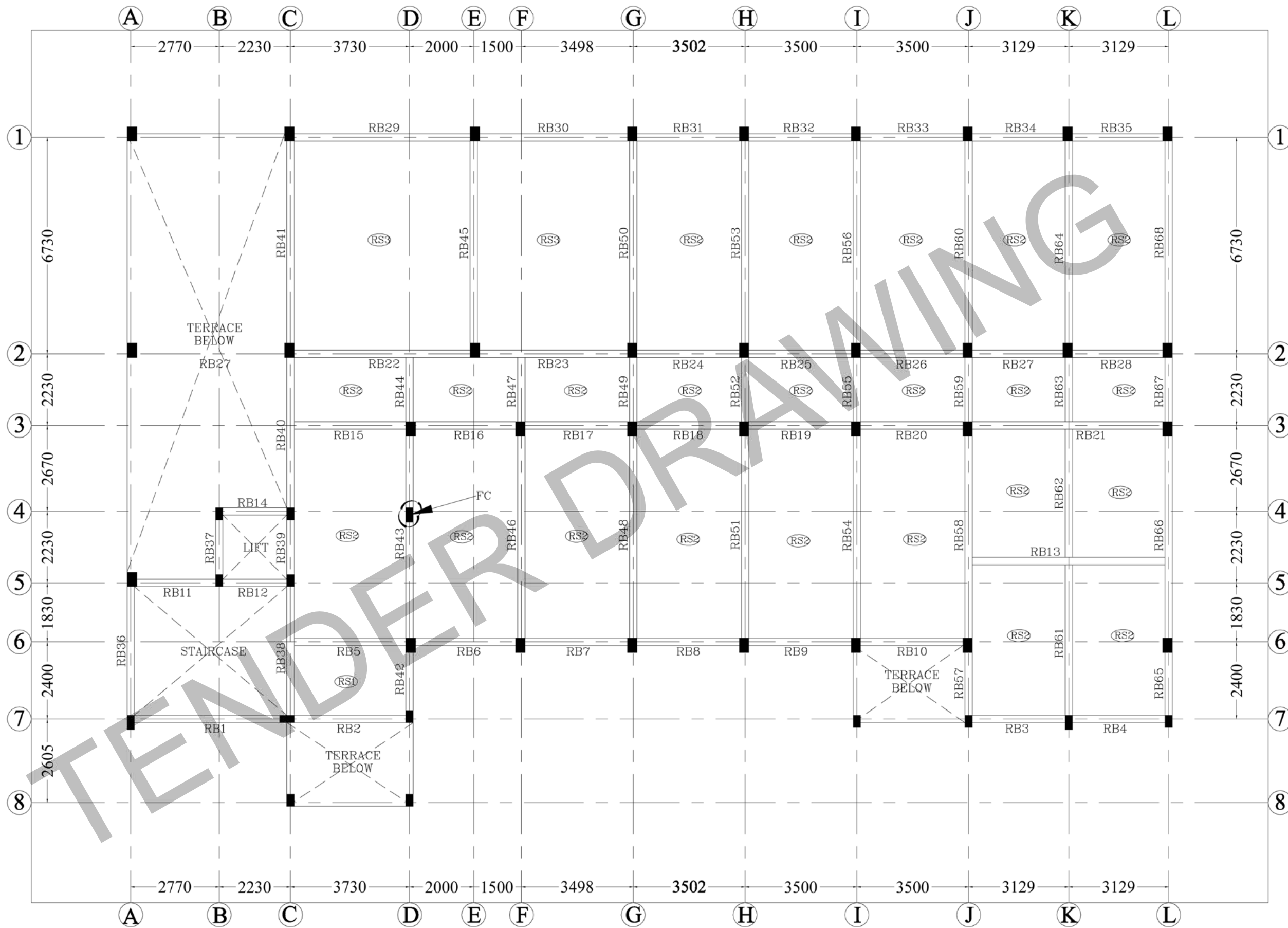
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No.10, Bandhuv Street, F1-Accacia Flats, Ganapathy Nagar, Nagalkeni, Chrompet, Chennai-600 044.  
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**PROJECT :**  
PROPOSED CONSTRUCTION OF INDIAN BANK'S RURAL SELF EMPLOYMENT TRAINING INSTITUTE AT KRISHNAGIRI.

**TITLE :**  
GROUND FLOOR ROOF BEAM SECTION DETAILS

**DRAWN :** PRATHEIK  
**CHECKED :** C.ARUN  
**APPROVED :** C.ARUN  
**SCALE :** 1:100  
**PROJECT NUMBER :** SCPL/6/2024-25

**DATE :** :08/11/2025  
**SHEET NO :** :08  
**REV NO :** :0



FIRST FLOOR ROOF BEAM LAYOUT AT +7500MM LVL



**NOTES:**

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- USE CONCRETE - M25 (DESIGN MIX) FOR ALL RCC WORKS.
- MINIMUM CEMENT CONTENT SHALL NOT BE LESS THAN 340 KG/CU.M FOR M25 CONCRETE.
- HIGH YIELD STRENGTH DEFORMED BARS Fe 500D CONFIRMING IS 1786-1985 TO BE USED

- NO ADMIXTURES SHALL BE ADDED WITHOUT PERMISSION OF CONSULTANT
- CLEAR COVER TO REINFORCEMENT FOR FOOTING : 50MM, COLUMN 40MM, R.C.C WALL AND BEAM 30MM, SLAB 25MM.
- DEVELOPMENT LENGTH OF BAR L<sub>d</sub> AS 46 Ø IN TENSION 37 Ø IN COMPRESSION, WHERE Ø = DIA OF BAR
- FOR ALL OTHER RCC GENERAL NOTES REFER SHEET NO.A1.
- FOLLOW DUCTILE DETAILING AS PER IS13920(REFER SHEET NO.A)
- STRUCTURE IS DESIGNED FOR (G+1) FLOORS ONLY.
- THE SAFE LOAD BEARING CAPACITY OF SOIL IS 30 Ton/Sq.M AT 2.5M DEPTH AS PER SOIL REPORT.

**ARCHITECTS:**



**STRUCTURAL CONSULTANTS:**



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**PROJECT :**

PROPOSED CONSTRUCTION OF INDIAN BANK'S RURAL SELF EMPLOYMENT TRAINING INSTITUTE AT KRISHNAGIRI.

**TITLE :**

FIRST FLOOR ROOF BEAM LAYOUT

**DRAWN :** PRATHEIK

**CHECKED :** C.ARUN

**APPROVED :** C.ARUN

**SCALE :** 1:100

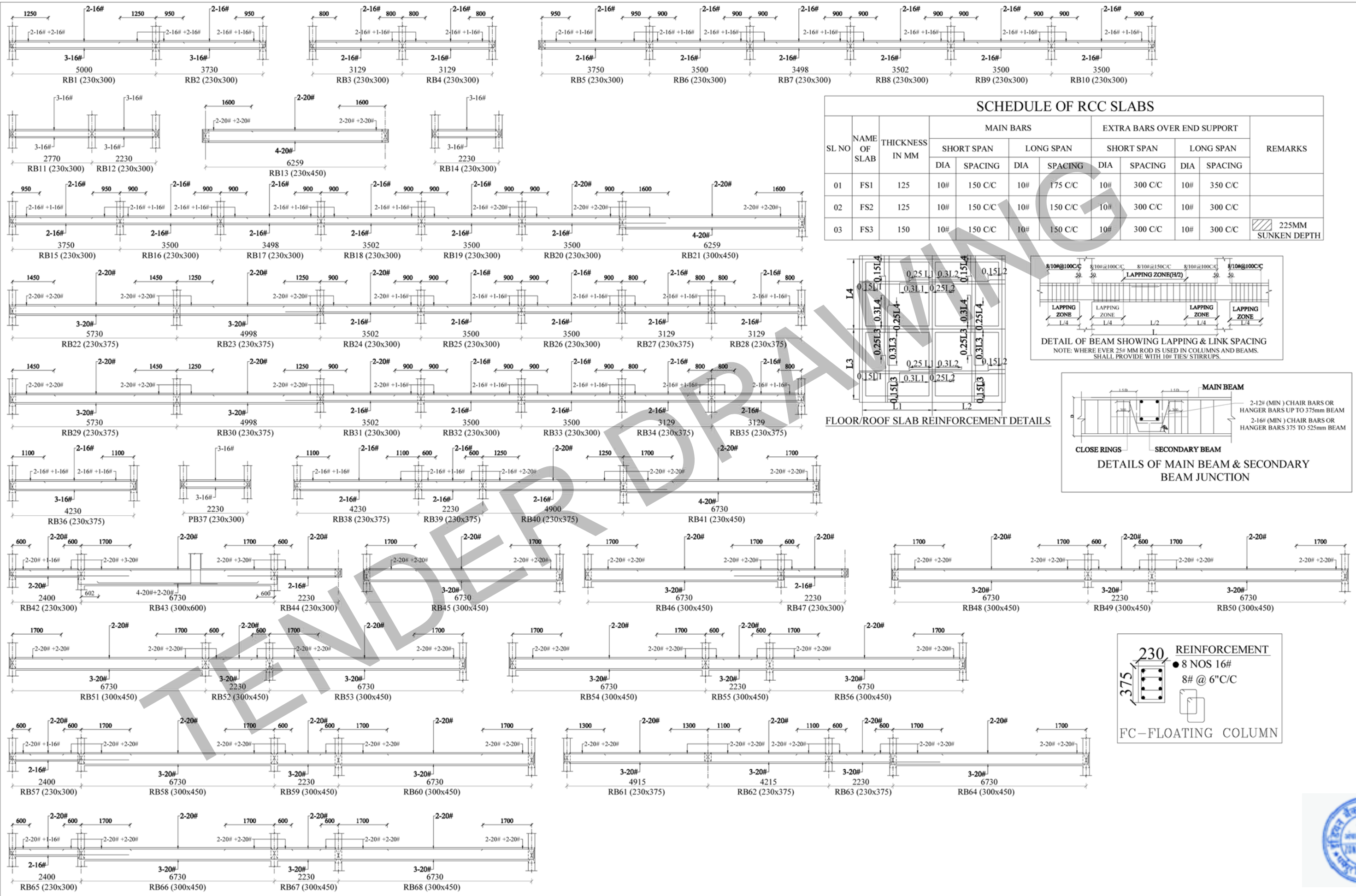
**PROJECT NUMBER :** SCPL/6/2024-25

**DATE :** 08/11/2025

**SHEET NO :** 09

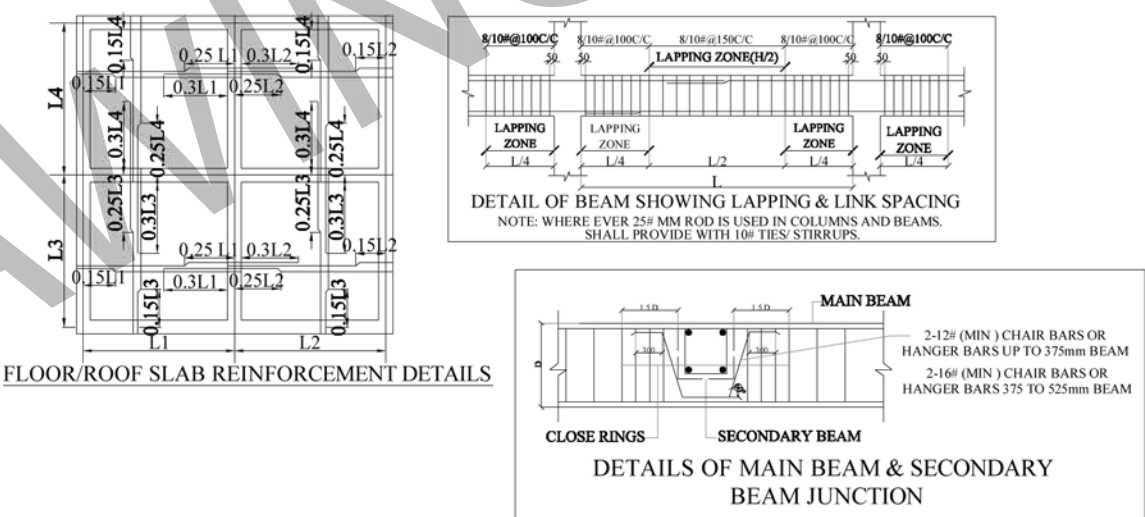
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### SCHEDULE OF RCC SLABS

SL NO	NAME OF SLAB	THICKNESS IN MM	MAIN BARS				EXTRA BARS OVER END SUPPORT				REMARKS
			SHORT SPAN		LONG SPAN		SHORT SPAN		LONG SPAN		
			DIA	SPACING	DIA	SPACING	DIA	SPACING	DIA	SPACING	
01	FS1	125	10#	150 C/C	10#	175 C/C	10#	300 C/C	10#	350 C/C	
02	FS2	125	10#	150 C/C	10#	150 C/C	10#	300 C/C	10#	300 C/C	
03	FS3	150	10#	150 C/C	10#	150 C/C	10#	300 C/C	10#	300 C/C	225MM SUNKEN DEPTH



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**ARCHITECTS:**

**NANDA & ASSOCIATES ARCHITECTS**  
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**PROJECT :**  
 PROPOSED CONSTRUCTION OF INDIAN BANK'S RURAL SELF EMPLOYMENT TRAINING INSTITUTE AT KRISHNAGIRI.

**TITLE :**  
 FIRST FLOOR ROOF BEAM SECTION DETAILS

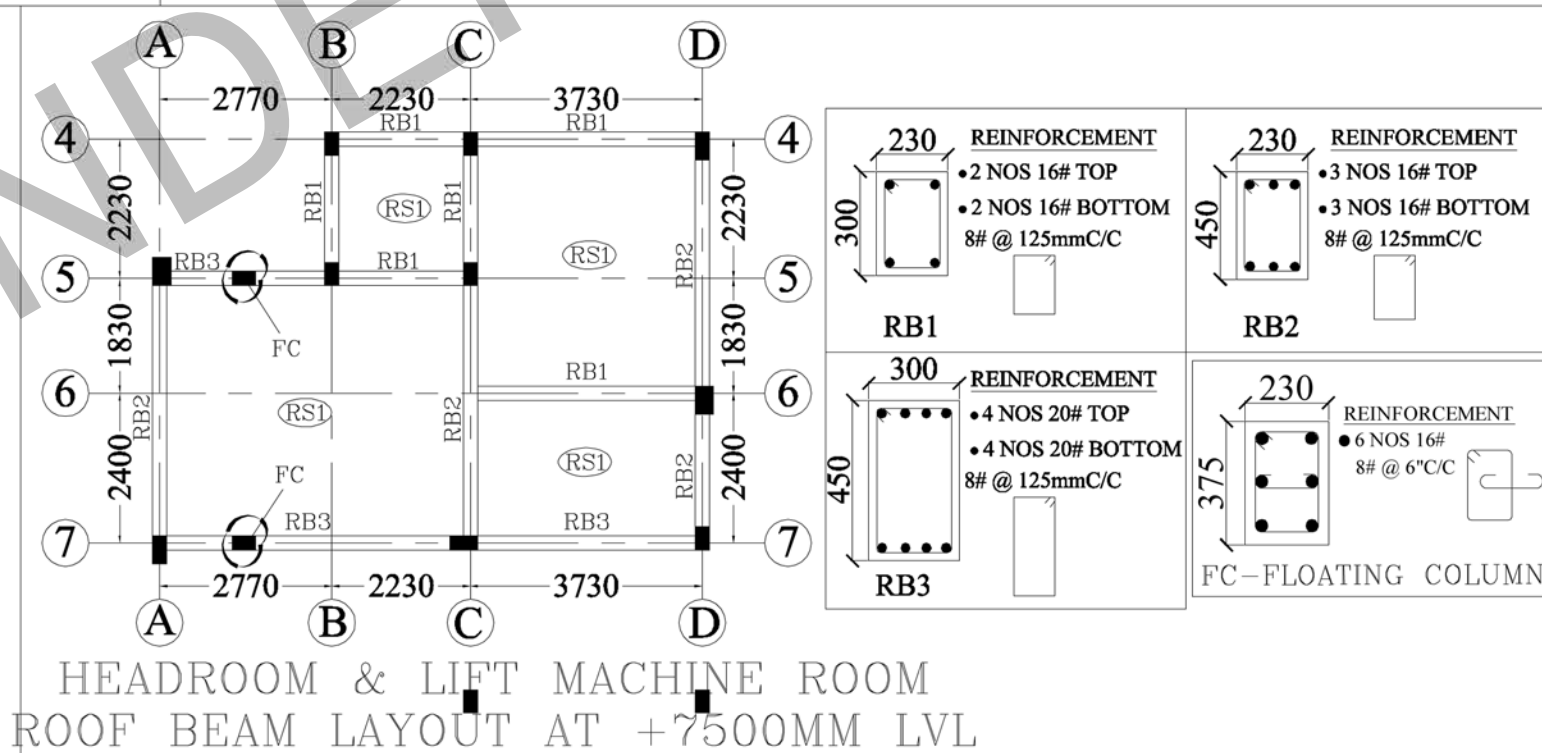
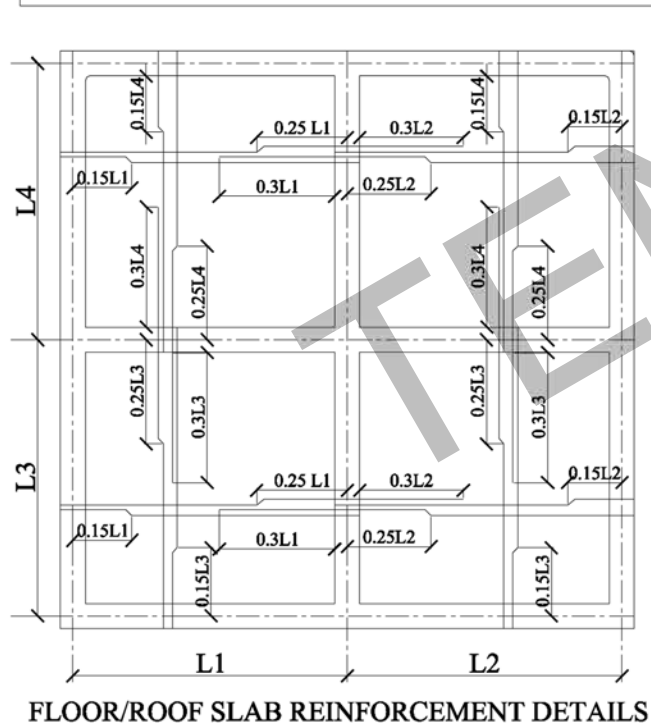
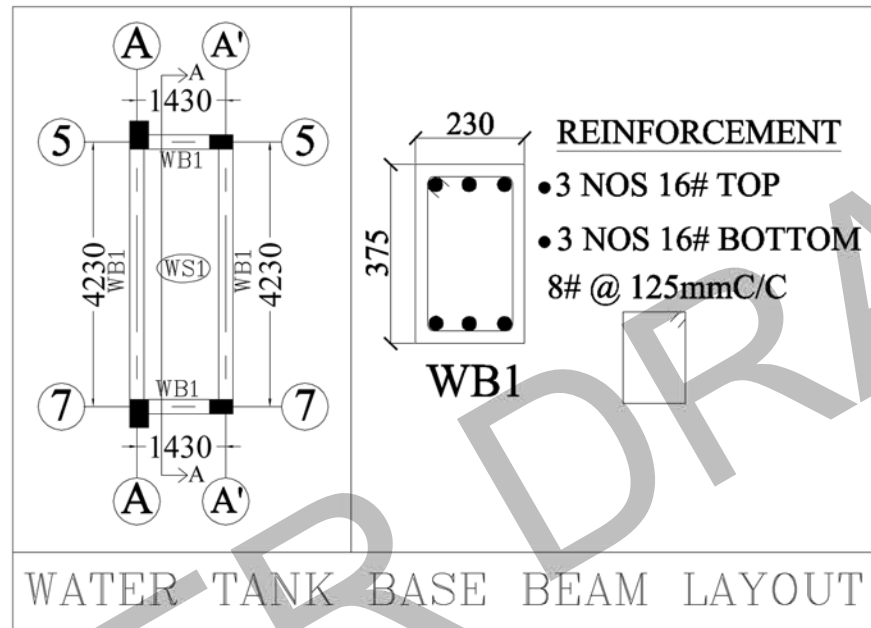
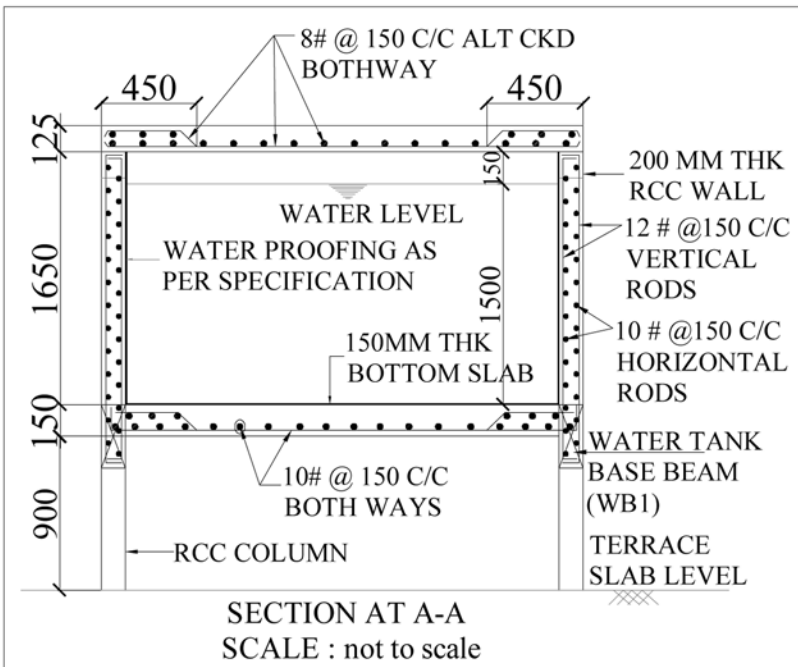
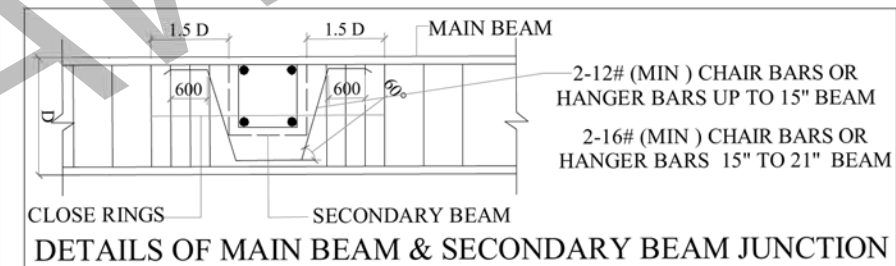
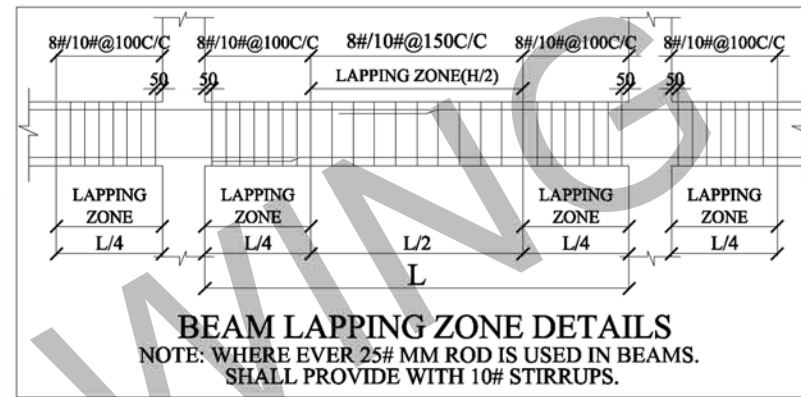
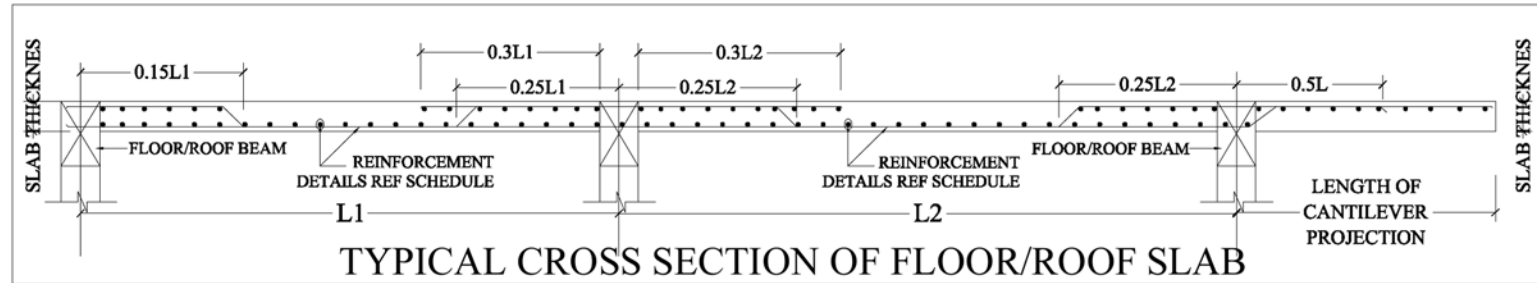
**DRAWN :** PRATHEIK  
**CHECKED :** C.ARUN  
**APPROVED :** C.ARUN  
**SCALE :** 1:100  
**PROJECT NUMBER :** SCPL/6/2024-25

**DATE :** :08/11/2025  
**SHEET NO :** 10  
**REV NO :** 0



## SCHEDULE OF RCC SLAB

NAME OF SLAB	THICKNESS OF SLAB	MIDDLE OF PANEL MAIN BAR ALTERNATE CRANKED		SUPPORT EXTRA		REMARKS
		lx	ly	lx	ly	
		SHORTER DIRECTION	LONGER DIRECTION	SHORTER DIRECTION	LONGER DIRECTION	
RS1	150	10# @ 150C/C	10# @ 150C/C	10# @ 300C/C	10# @ 300C/C	Headroom Roof Slab
WS1	150	10# @ 150C/C	10# @ 150C/C	10# @ 300C/C	10# @ 300C/C	Water Tank Base Slab



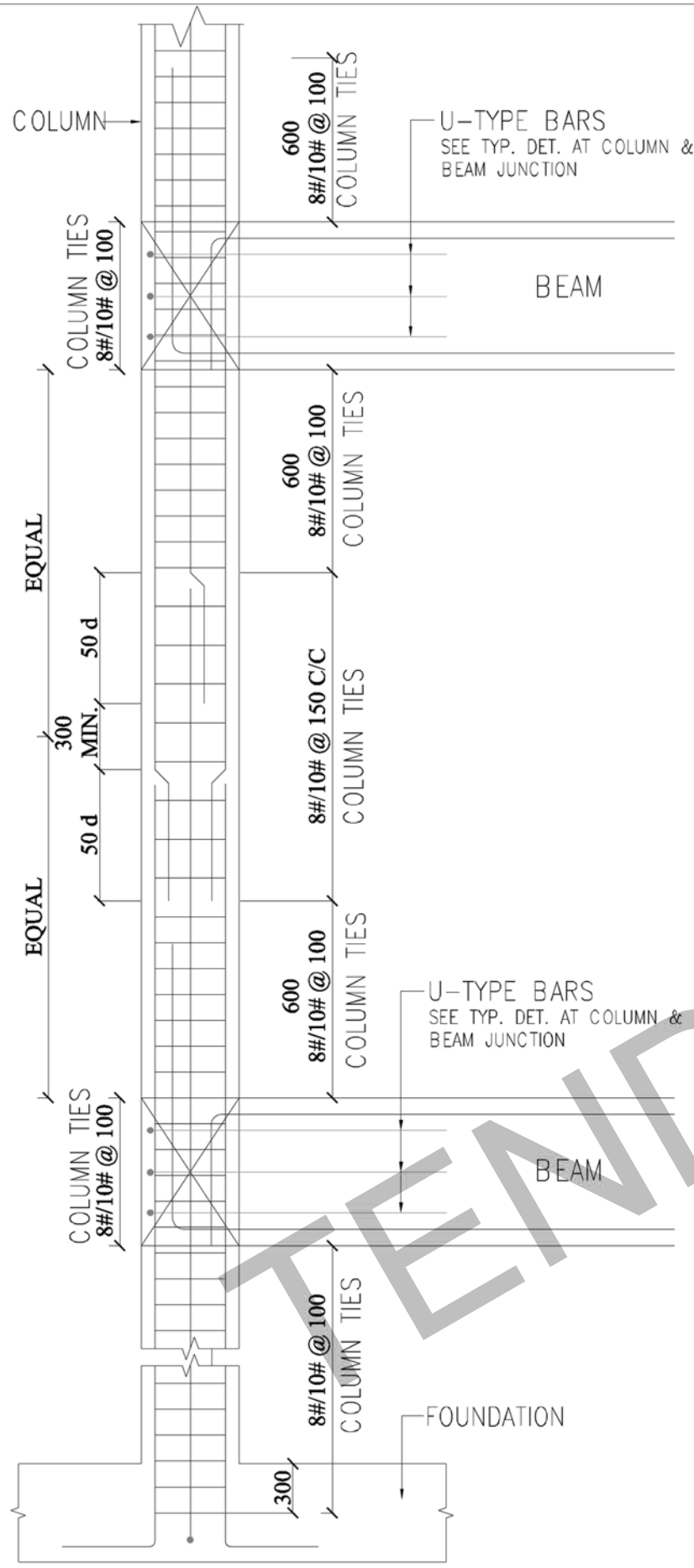
- NOTES:**
- CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS BEFORE THE EXECUTION OF WORK.
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  - CLEAR COVER TO REINFORCEMENT FOR FOOTING : 50MM, COLUMN 40MM, R.C.WALL AND BEAM 30MM, SLAB 25MM.
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  - THE SAFE LOAD BEARING CAPACITY OF SOIL IS 30 Ton/SqM AT 2.5M DEPTH AS PER SOIL REPORT.

**ARCHITECTS:**  
**NANDA & ASSOCIATES**  
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 TELEPHONE:044-2957420, E-mail:nandaarchitects@gmail.com

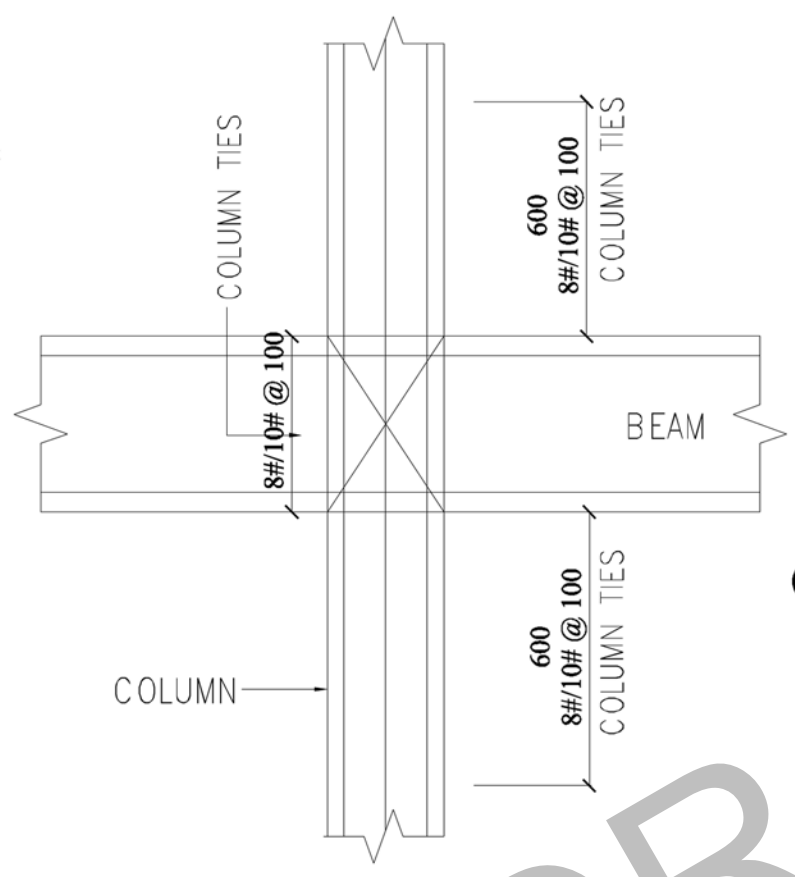
**STRUCTURAL CONSULTANTS:**  
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**PROJECT :**  
 PROPOSED CONSTRUCTION OF INDIAN BANK'S RURAL SELF EMPLOYMENT TRAINING INSTITUTE AT KRISHNAGIRI.  
**TITLE :**  
 HEADROOM ROOF & LIFT MACHINE ROOM ROOF & WATER TANK BASE BEAM LAYOUT & SECTION DETAILS

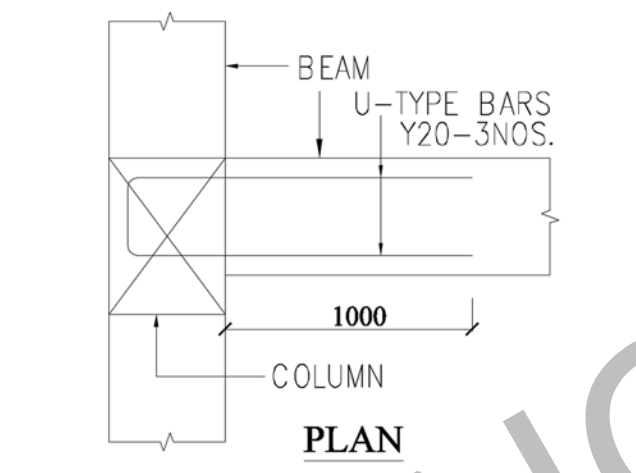
DRAWN : PRATHEIK	DATE :08/11/2025
CHECKED : C.ARUN	SHEET NO : 11
APPROVED : C.ARUN	REV NO : 0
SCALE : 1:100	
PROJECT NUMBER : SCPL/6/2024-25	



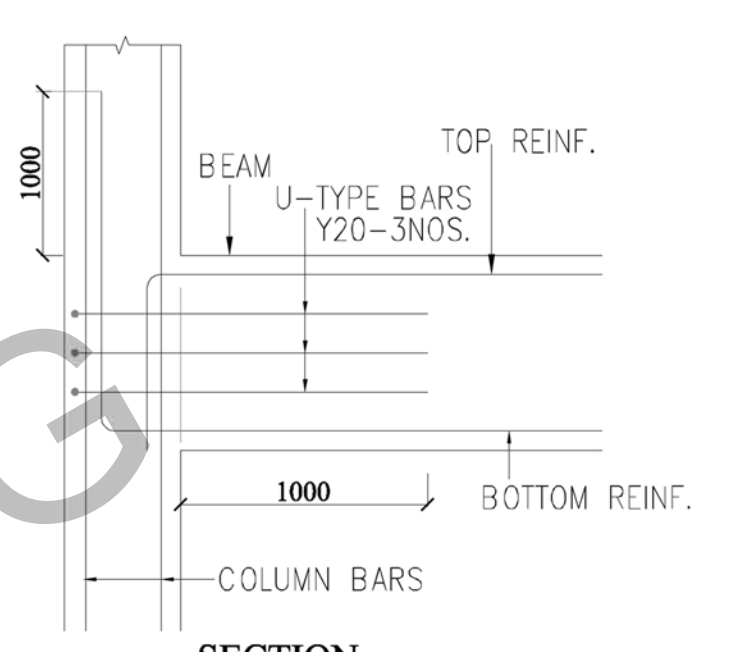
**TYP.DET.OF COLUMN  
(BEAM ON ONE SIDE OF COLUMN)**



**TYP.DET.OF COLUMN &  
BEAM JUNCTION  
(BEAMS ON TWO SIDES OF COLUMN)**



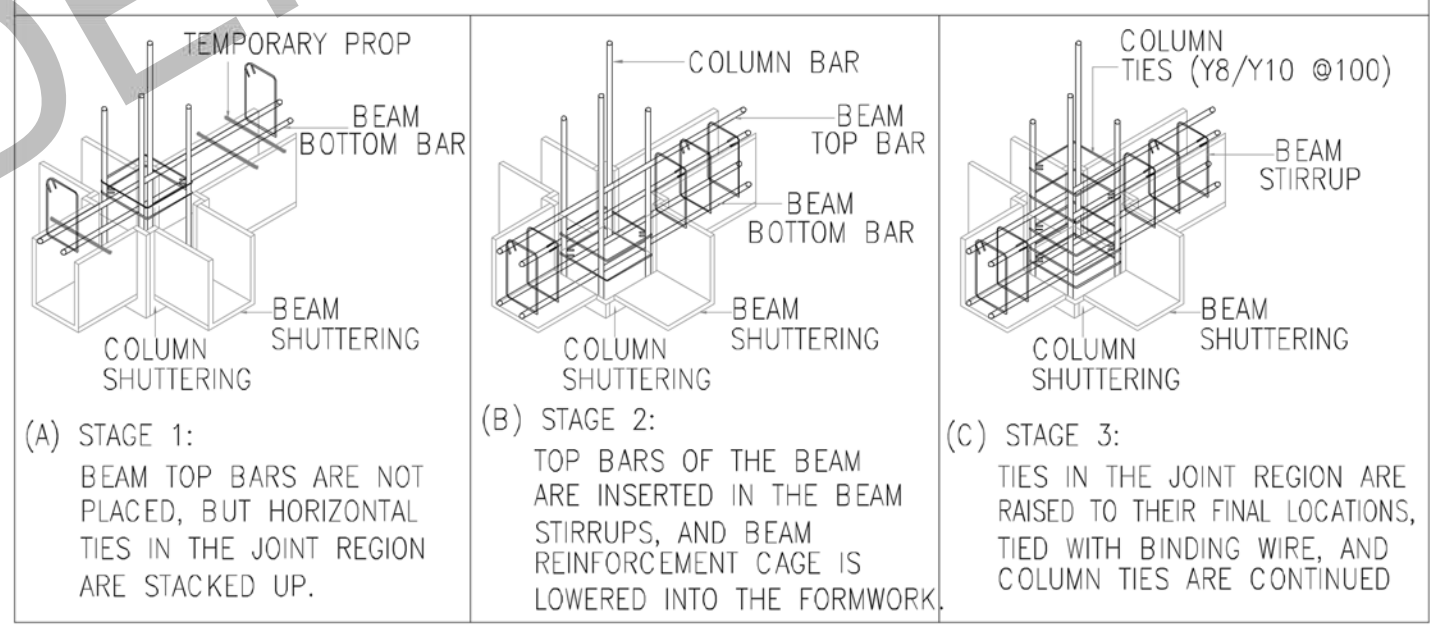
**TYP.DET.OF COLUMN &  
BEAM JUNCTION  
(BEAM ON ONE SIDE OF COLUMN)**



**TYP.DET.OF COLUMN &  
BEAM JUNCTION  
(BEAM ON ONE SIDE OF COLUMN)**

**TYP.DET.OF HOOK FOR  
BEAM STIRRUP**

**PROCEDURE FOR PLACING COLUMN TIES AT COLUMN BEAM JUNCTION**



**NOTES:**  
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 3. USE CONCRETE - M25 (DESIGN MIX) FOR ALL RCC WORKS.  
 4. MINIMUM CEMENT CONTENT SHALL NOT BE LESS THAN 340 KG/CUM FOR M25 CONCRETE.  
 5. HIGH YIELD STRENGTH DEFORMED BARS Fe 500D CONFIRMING IS 1786-1985 TO BE USED  
 6. NO ADMIXTURES SHALL BE ADDED WITHOUT PERMISSION OF CONSULTANT  
 7. CLEAR COVER TO REINFORCEMENT FOR FOOTING : 50MM, COLUMN 40MM, R.C WALL AND BEAM 30MM, SLAB 25MM.  
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 9. FOR ALL OTHER RCC GENERAL NOTES REFER SHEET NO A1.  
 10. FOLLOW DUCTILE DETAILING AS PER IS13920(REFER SHEET NO.A)  
 11. STRUCTURE IS DESIGNED FOR (G+1) FLOORS ONLY.  
 12. THE SAFE LOAD BEARING CAPACITY OF SOIL IS 30 Ton/Sq.M AT 2.5M DEPTH AS PER SOIL REPORT.

**ARCHITECTS:**  
**NANDA & ASSOCIATES**  
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**PROJECT :**  
 PROPOSED CONSTRUCTION OF INDIAN BANK'S RURAL SELF EMPLOYMENT TRAINING INSTITUTE AT KRISHNAGIRI.  
**TITLE :**  
 TYPICAL DUCTILE DETAILING FOR EARTHQUAKE RESISTANCE

**DRAWN :** PRATHEIK  
**CHECKED :** C.ARUN  
**APPROVED :** C.ARUN  
**SCALE :** 1:100  
**PROJECT NUMBER :** SCPL/6/2024-25  
**DATE :** :08/11/2025  
**SHEET NO :** A  
**REV NO :** 0



**RCC NOTES :-**

1. CONTRACTOR TO CHECK & VERIFY ALL DIMENSIONS BEFORE EXECUTION OF THE WORK.
2. FIGURED DIMENSIONS SHALL BE FOLLOWED.
3. ALL DIMENSIONS ARE GIVEN IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
4. THE SAFE LOAD BEARING CAPACITY OF SOIL IS 200kN/Sq.M AT 2.0M DEPTH BELOW EXISTING GROUND LEVEL AND 100MM THK PCC (1:4:8) AND 100MM THK M.SAND (3:1) LAYER TO BE FORMED AS FOOTING BASE NEED TO PROVIDE.
5. LOOSE POCKETS OF SOIL IF ENCOUNTERED SHALL BE COMPLETELY REMOVED AND BACK FILLED WITH MORRUM.
6. ALL REINFORCEMENT SHALL BE TMT BARS OF Fe -500D GRADE AND ABOVE ABOVE CONFORMING TO RELEVANT IS CODES.
7. MIX FOR CONCRETE FOR ALL RCC WORKS SHALL BE M-25 ( DESIGN MIX ) AS PER IS:456-2000. MINIMUM CEMENT CONTENT SHALL NOT E LESS THAN 340 KG/CU.M.
8. THE STRUCTURE HAS BEEN DESIGNED FOR MODERATE EXPOSURE & 2 HRS FIRE-RATING AS PER IS 456 - 2000
9. ALL TOP BARS OF BEAMS TERMINATING AT INTERMEDIATE SPAN SHALL BE CARRIED INTO THE ADJACENT SPAN FOR A LENGTH OF 0.3L OF THE ADJACENT SPAN OR Ld WHICH EVER IS MORE.
10. TOP OF PLINTH BEAM ON ALL EXTERNAL WALLS SHALL BE 150MM ABOVE EGL AND FOR ALL INTERNAL WALLS SHALL BE 40MM BELOW FFL.
11. IRRESPECTIVE OF WHAT IS SHOWN ALL TOP BARS OF BEAMS SHALL BE TAKEN Ld + 10db INTO COLUMN AT DISCONTINUE END AS PER IS 13920 :2016 (REFER SHEET NO. A)
12. THE LEAN CONC SHALL BE LAID IN CONTINUOUS IF THE CLEAR GAP BETWEEN THE TWO ADJACENT FOOTINGS IS 250 OR LESS .

13. 230 MM THK BLOCK WALLS SHALL REST DIRECTLY ON PLINTH BEAMS BELOW.
14. NOMINAL COVER TO REINFORCEMENT SHALL BE AS UNDER:
  - (i) SLAB :- 25 mm
  - (ii) BEAM & RCC WALL :- 30 mm
  - (iii) COLUMN :- 40 mm
  - (iv) FOOTINGS :- 50 mm
15. IN ALL MEMBERS WHERE GRADE OF CONCRETE MIX USED IS M-25 THE DEVELOPMENT LENGTH/LAP LENGTH FOR TOR STEEL REINFORCEMENT CONFORMING TO IS-1786 SHALL BE

LAP LENGTH / DEVELOPMENT LENGTH		
GRADE OF CONCRETE	BARS IN TENSION AND COL BARS	BARS IN COMPRESSION EXCEPT IN COL BARS
M - 25	50 DIA	40 DIA

16. **THE STRUCTURE IS DESIGNED FOR (G+1) FLOORS ONLY.**
17. **THE STRUCTURE IS DESIGNED FOR EARTHQUAKE LOAD OF SEISMIC ZONE II.**
18. **THE STRUCTURE IS DESIGNED TO WITHSTAND WIND VELOCITY OF 33m/sec.**



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**TITLE :**  
RCC GENERAL NOTES

<b>DRAWN</b> : PRATHEIK	<b>DATE</b> : 08/11/2025
<b>CHECKED</b> : C.ARUN	<b>SHEET NO</b> : A1
<b>APPROVED</b> : C.ARUN	<b>REV NO</b> : 0
<b>SCALE</b> : 1:100	
<b>PROJECT NUMBER</b> : SCPL/6/2024-25	