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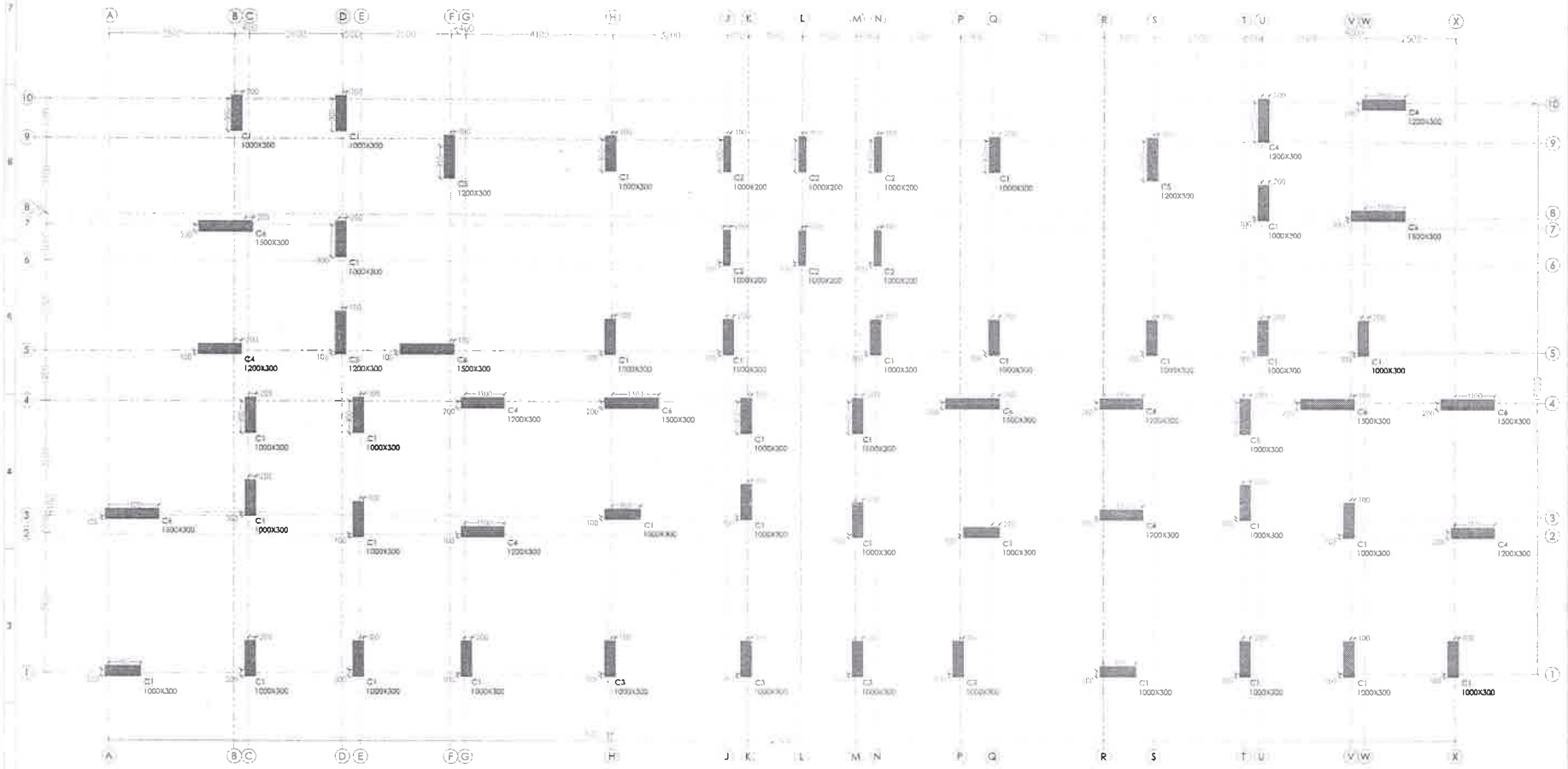
3/350/2 Mettukuppam,
OMR Thoraipakkam,
Chennai, India

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+91 9996 12 9996

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COLUMN LAYOUT- BASE TO FIRST

General Notes:

1. All dimensions are in mm.
2. Read the drawing along with Architectural drawings.
3. Use M30 Concrete and Fe500 Steel for RCC works.
4. The structure is designed for G+9 Storey.
5. In addition to the self weight of the structure the following loads are considered in analysis.
   a. Rooms - 2 kN/m²
   b. Stair Case and Balconies - 3 kN/m²
   c. Terrace - 1.5 kN/m²
6. The Capacity Reduction Factor [illegible]

NOTES :

1. COVER TO PCC [illegible]
2. COVER TO RCC [illegible]
3. COVER TO BEAM ON ALL SIDES - 40 MM
4. COVER TO SHEAR WALL ON ALL SIDES - 25 MM
5. COVER TO SLAB ON ALL SIDES - 15 MM
6. LAPPING LENGTH IS 50 TIMES DIA OF [illegible]

NOTE: ONLY AAC BLOCK USED FOR WALLS

REVISION DETAILS

REV NO	DATE	DESCRIPTION

PROJECT: PROPOSED RESIDENTIAL APARTMENT FOR BUILDERS FLOOR

DRAWING TITLE: COLUMN LAYOUT - BASE TO FIRST FLOOR

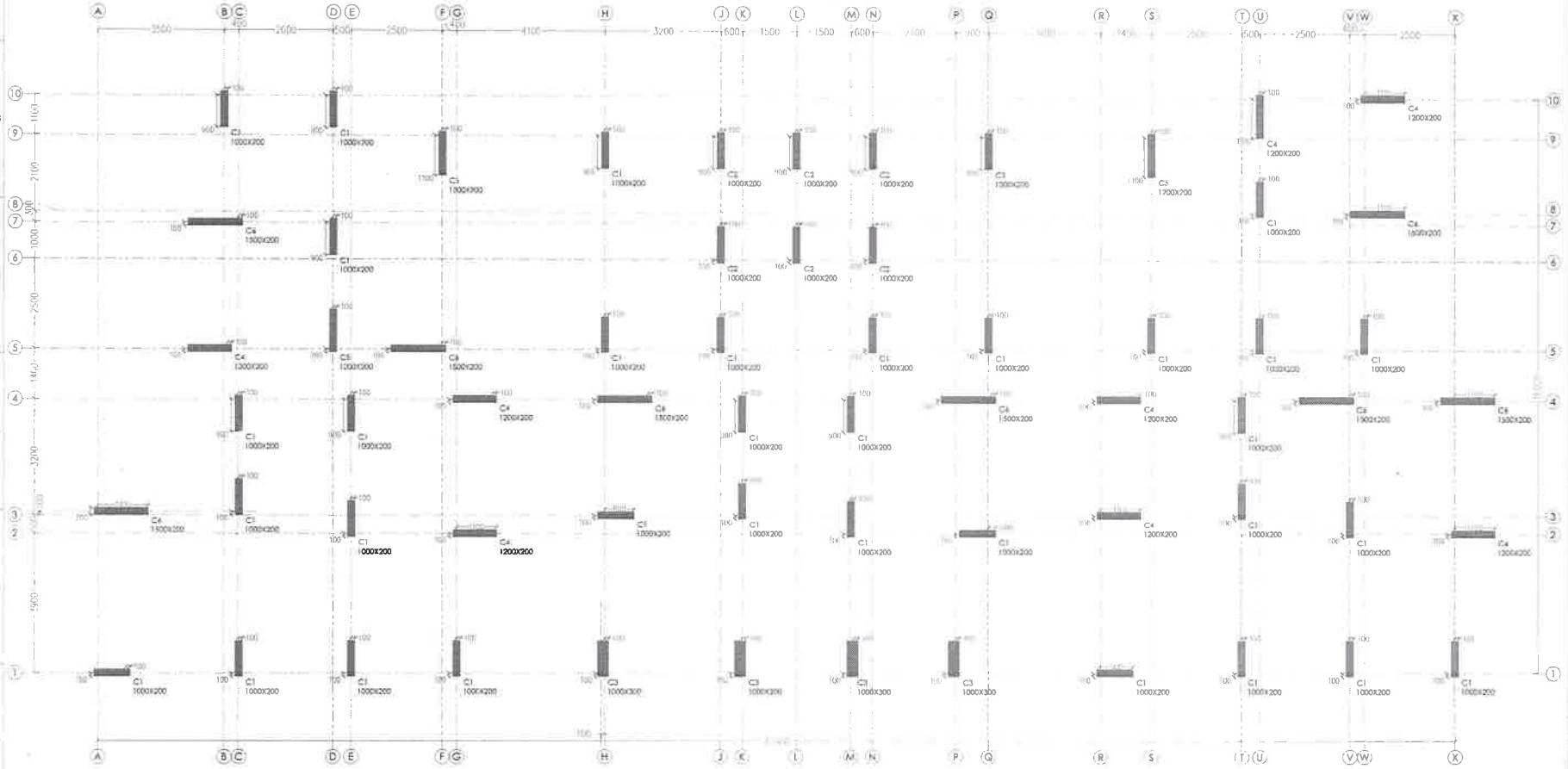
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CHECKED	SCALE: 1:100	REV:

DRAWING NO:

PRINCIPAL ARCHITECTS

MRN ASSOCIATES

A. VIJAYAKUMAR, M.E.,
Structural Engineer, GR-1,CMDA,
Reg No : SE / GR 1 / 19 / 07 / 177
73/35, Sundaraganapathy Sreet,
Ammapet, Salem-636003



COLUMN LAYOUT- FIRST TO SECOND

General Notes:

1. All dimensions are in MM
2. Read the drawing along with Architectural drawings
3. Use M30 Concrete and Fe500 Steel for R.C.C. works
4. The structure is designed for G+9 Storey.
5. In addition to the self weight of the structure the following loads are considered in analysis.
   a. Rooms – 2 kN/m²
   b. Stair Case and Balconies – 3 kN/m²
   c. Terrace – 1.5 kN/m²
6. Pile Capacity 600mm Dia 13M Long is 75Tonnes.

NOTES :

1. COVER TO PILE CAP AT BOTTOM 75 MM (3")
2. COVER TO PILE CAP ON OTHER SIDES 50 MM (2")
3. COVER TO BEAM ON ALL SIDES 30 MM (1½")
4. COVER TO SHEAR WALL ON ALL SIDES 25MM (1")
5. COVER TO SLAB ON ALL SIDES 20 MM (¾")
6. LAPPING LENGTH IS 50 TIMES DIA OF THE BAR

NOTE: ONLY AAC BLOCK USED FOR WALLS

REVISION DETAILS

REV NO	DATE	DESCRIPTION
#1	19/07/22	ISSUED FOR CONSTRUCTION

PROJECT: PROPOSED RESIDENTIAL APARTMENTS BUILDERS BLOCK

DRAWING TITLE: COLUMN LAYOUT FIRST TO SECOND FLOOR

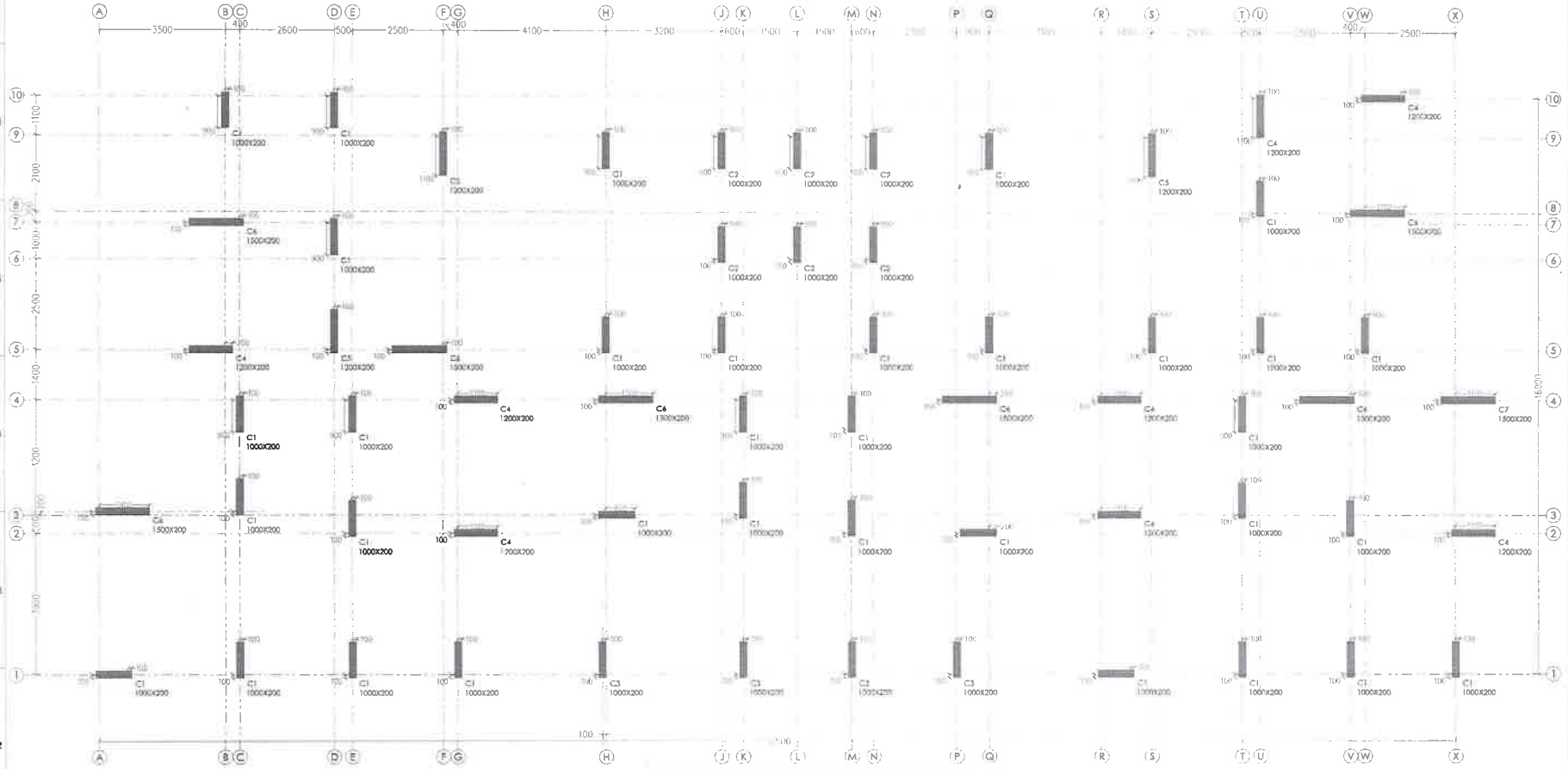
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DRAWING NO: SD 02

PRINCIPAL ARCHITECTS:

M.R.N. ASSOCIATES

A. VIJAYAKUMAR, M.E.,
Structural Engineer, GR-1,CMDA,
Reg No : SE / GR 1 / 19 / 07 / 177
73/35, Sundaraganapathy Sreet,
Ammapet, Salem-636003



COLUMN LAYOUT- SECOND TO TERRACE

General Notes:

1. All dimensions are in MM
2. Read the drawing along with Architectural drawings
3. Use M30 Concrete and Fe500 Steel for R.C.C works
4. The structure is designed for G+9 Storey.
5. In addition to the self weight of the structure the following loads are considered in analysis
   a. Rooms – 2 kN/m²
   b. Stair Case and Balconies – 3 kN/m²
   c. Terrace – 1.5 kN/m²
6. Pile Capacity 600mm Dia 13M Long in 75Tonnes.

NOTES :

1. COVER TO PILE CAP AT BOTTOM - 75 MM (3")
2. COVER TO PILE CAP ON OTHER SIDES - 50 MM (2")
3. COVER TO BEAM ON ALL SIDES - 30 MM (1½")
4. COVER TO SHEAR WALL ON ALL SIDES - 25MM (1")
5. COVER TO SLAB ON ALL SIDES - 20 MM (¾")
6. LAPPAC LENGTH IS 50 TIMES DIA OF THE BAR

NOTE: ONLY AAC BLOCK USED FOR WALLS

REVISION DETAILS

REV NO	DATE	DESCRIPTION
R1	17/07/23	ISSUED FOR CONSTRUCTION

PROJECT: PROPOSED RESIDENTIAL APARTMENTS BUILDERS BLOCK

DRAWING TITLE: COLUMN LAYOUT SECOND TO TERRACE FLOOR

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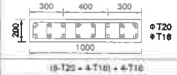
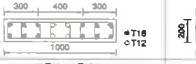
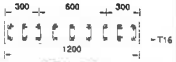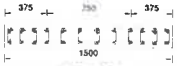
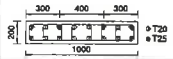
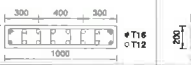
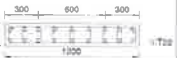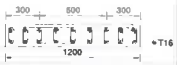
DRAWING NO: SD-04

PRINCIPAL ARCHITECTS:

MRN ASSOCIATES

A. VIJAYAKUMAR, M.E.,
Structural Engineer, GR-1,CMDA,
Reg No : SE / GR 1 / 19 / 07 / 177
73/35, Sundaraganapathy Sreet,
Ammapet, Salem-636003

WALL SCHEDULE

	C1	C2	C3	C4	C5	C6
FIFTH TO TERRACE	BE: T8 @ 100; OTHERS: T8 @ 200	BE: T8 @ 100; OTHERS: T8 @ 200	BE: T8 @ 100; OTHERS: T8 @ 200	BE: T8 @ 100; OTHERS: T8 @ 125	BE: T8 @ 100; OTHERS: T8 @ 125	BE: T8 @ 100; OTHERS: T8 @ 125
						
	(8-T20 + 4-T16) + 4-T16	12-T16 + 4-T12	(4-T16+8-T12) + 4-T12	12-T16 - 8-T16	12-T16 - 8-T16	16-T16 + 8-T16
FIRST TO FIFTH	BE: T8 @ 100; OTHERS: T8 @ 200	BE: T8 @ 100; OTHERS: T8 @ 200	BE: T8 @ 100; OTHERS: T8 @ 200	BE: T8 @ 100; OTHERS: T8 @ 125	BE: T8 @ 100; OTHERS: T8 @ 125	BE: T8 @ 100; OTHERS: T8 @ 125
						
	(8-T25 + 4-T20) + 4-T20	12-T16 + 4-T12	(4-T16+8-T12) + 4-T12	12-T20 - 8-T20	12-T16 - 8-T16	(8-T25 + 8-T20) + (4-T25 + 4-T20)
BASE TO FIRST	BE: T8 @ 100; OTHERS: T8 @ 125	BE: T8 @ 100; OTHERS: T8 @ 200	UPTO SECOND FLOOR BE: T8 @ 100; OTHERS: T8 @ 125	BE: T8 @ 100; OTHERS: T8 @ 125	BE: T8 @ 100; OTHERS: T8 @ 125	BE: T8 @ 100; OTHERS: T8 @ 125
						
	(8-T25 + 8-T20) + 4-T20	12-T16 + 4-T16	(12-T16+4-T12) + 4-T12	(4-T25 + 12-T20) + 8-T20	(8-T20+8-T16) + 8-T16	(8-T25 + 12-T20) + (4-T25 + 4-T20)
COLUMN MARKED	C1	C2	C3	C4	C5	C6

*BE - CONFINED ZONE
*OTHERS - NON-CONFINED ZONE

General Notes:

1. All dimensions are in MM
2. Read the drawing along with Architectural drawings
3. Use M30 Concrete and Fe500 Steel for R.C.C works
4. The structure is designed for G+8 Storey
5. In addition to the self weight of the structure, the following loads are considered in analysis
   a. Rooms - 2 kN/m²
   b. Stair Case and Balconies - 3 kN/m²
   c. Terrace - 1.5 kN/m²
   d. Pile Capacity 600mm Dia 15M Long is 75Tonnes

NOTES :

1. COVER TO PILE CAP AT BOTTOM - 75 MM (3")
2. COVER TO PILE CAP ON OTHER SIDES - 50 MM (2")
3. COVER TO BEAM ON ALL SIDES - 40 MM (1½")
4. COVER TO SHEAR WALL ON ALL SIDES - 25MM (1")
5. COVER TO SLAB ON ALL SIDES - 20 MM (¾")
6. LAPPING LENGTH IS 50 TIMES DIA OF TOR BAR

NOTE: ONLY AAC BLOCK USED FOR WALLS

REVISION DETAILS

REV NO	DATE	DESCRIPTION
R1	17/07/23	ISSUED FOR CONSTRUCTION

PROJECT: PROPOSED RESIDENTIAL APARTMENTS BUILDERS BLOCK

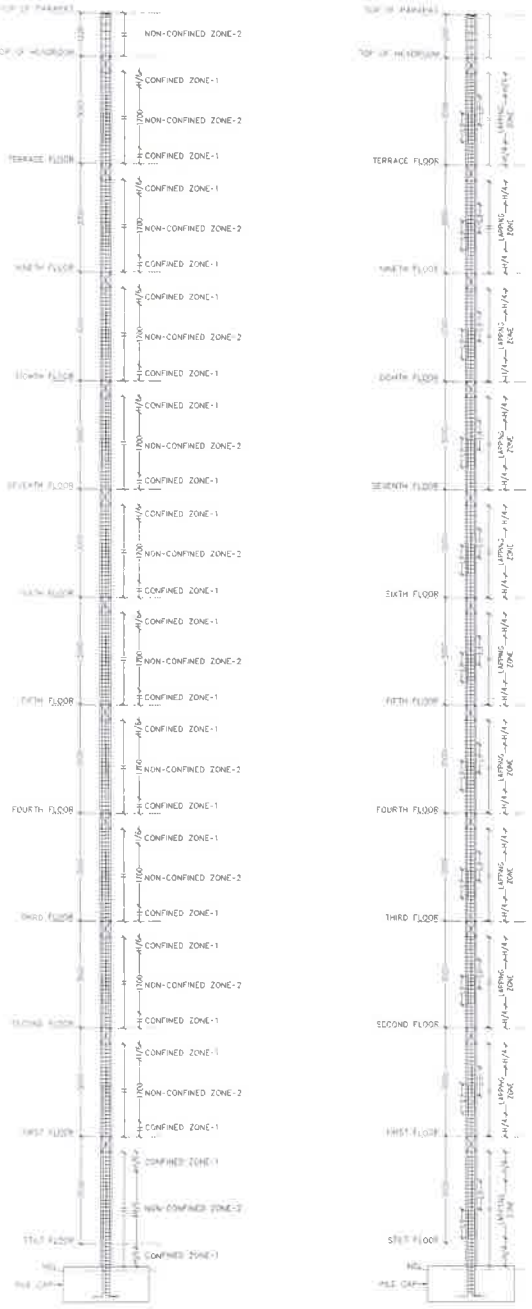
DRAWING TITLE: COLUMN DETAILS

DRAWING NO:

PRINCIPAL ARCHITECTS:

MRN ASSOCIATES

A. VIJAYAKUMAR, M.E.,
Structural Engineer, GR-1,CMDA,
Reg No : SE / GR 1 / 19 / 07 / 177
73/35, Sundaraganapathy Sreet,
Ammapet, Salem-636003



TYPICAL SHEAR WALL CONFINEMENT ZONE DETAILS

-CONFINED ZONE-1 : STIRRUP T8@ 100C/C
-NON CONFINED ZONE-2 : STIRRUP AS PER SCHEDULE
-LAPPING ZONE : STIRRUP T8@ 100C/C

TYPICAL SHEAR WALL CONFINEMENT ZONE DETAILS

-CONFINED ZONE-1 : STIRRUP T8@ 100C/C
-NON CONFINED ZONE-2 : STIRRUP AS PER SCHEDULE
-LAPPING ZONE : STIRRUP T8@ 100C/C



TYPICAL SHEAR WALL DETAIL
WITH SIZE REDUCING FROM 300 TO 200

General Notes:

1. All dimensions are in MM
2. Read the drawing along with Architectural drawings
3. Use M30 Concrete and Fe500 Steel for R.C.C works
4. The structure is designed for G+9 Storey
5. In addition to the self weight of the structure the following loads are considered in analysis
   a. Rooms - 2 kN/m²
   b. Stair Case and Balconies - 3 kN/m²
   c. Terrace - 1.5 kN/m²
6. Pile Capacity 600mm Dia 15M Long is 75tonnes

NOTES :

1. COVER TO PILE CAP AT BOTTOM - 75 MM (3")
2. COVER TO PILE CAP ON OTHER SIDES - 50 MM (2")
3. COVER TO BEAM ON ALL SIDES - 30 MM (1")
4. COVER TO SHEAR WALL ON ALL SIDES - 25MM (1")
5. COVER TO SLAB ON ALL SIDES - 20 MM (8")
6. LAPPING LENGTH IS 50 TIMES DIA OF TMT BAR

NOTE: ONLY AAC BLOCK USED FOR WALLS

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Ammapet, Salem-636003

REVISION DETAILS

REV NO	DATE	DESCRIPTION
		ISSUED FOR CONSTRUCTION

PROJECT: PROPOSED RESIDENTIAL APARTMENTS
BUILDERS BLOCK

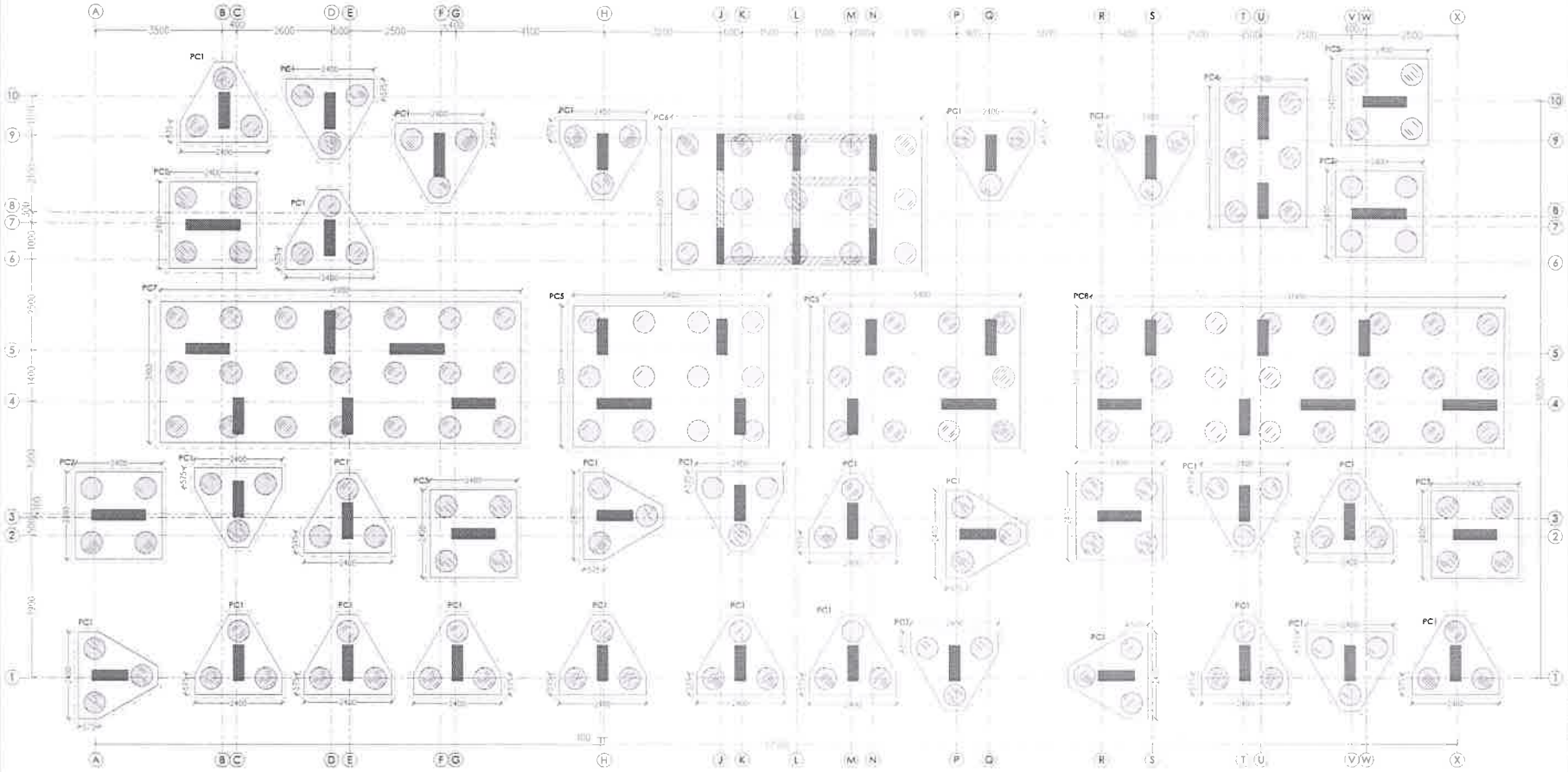
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CHECKED: | SCALE: | REV:

DRAWING NO:
SD-05

PRINCIPAL ARCHITECTS:

MRN ASSOCIATES



TYPICAL FLOOR-COLUMN LAYOUT

General Notes:

1. All dimensions are in mm
2. Read the drawing along with Architectural drawings
3. Use M30 Concrete and Fe500 Steel for R.C.C. work
4. The structure is designed for G+9 Storey
5. In addition to the self weight of the structure the following loads are considered in analysis
   a. Rooms - 2 kN/m²
   b. Stair Case and Balconies - 3 kN/m²
   c. Terrace - 1.5 kN/m²
6. Pile Capacity 600mm Dia 13M Long is 75Tonnes

NOTES :

1. COVER TO PILE CAP AT BOTTOM - 75 MM (3")
2. COVER TO PILE CAP ON OTHER SIDES - 50 MM (2")
3. COVER TO BEAM ON ALL SIDES - 30 MM (1½")
4. COVER TO SHEAR WALL ON ALL SIDES - 25MM (1")
5. COVER TO SLAB ON ALL SIDES - 20 MM (¾")
6. LAPPING LENGTH IS 50 TIMES DIA OF THE BAR

NOTE: ONLY AAC BLOCK USED FOR WALLS

REVISION DETAILS

REV NO	DATE	DESCRIPTION

PROJECT: PROPOSED RESIDENTIAL APARTMENTS BUILDING BLOCK

DRAWING TITLE: PILE & PILE CAP LAYOUT

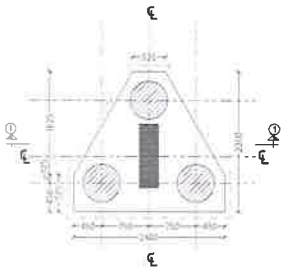
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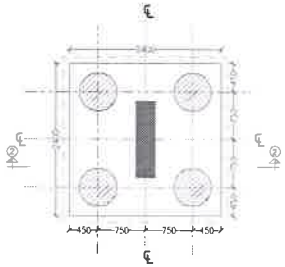
PRINCIPAL ARCHITECTS:

MRN ASSOCIATES

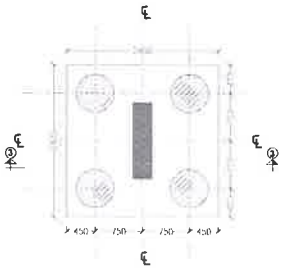
A. VIJAYAKUMAR, M.E.,
Structural Engineer, GR-1,CMDA,
Reg No : SE / GR 1 / 19 / 07 / 177
73/35, Sundaraganapathy Sreet,
Ammapet, Salem-636003



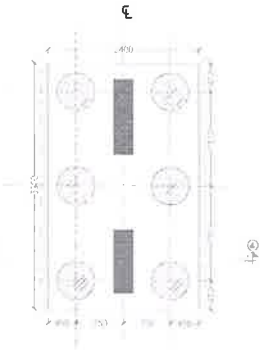
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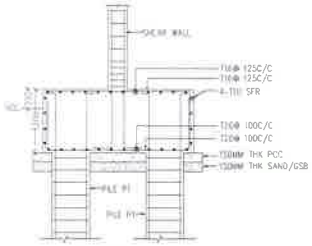
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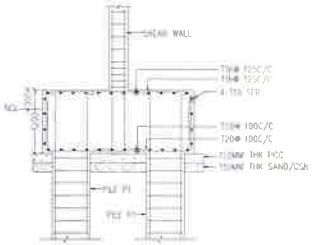
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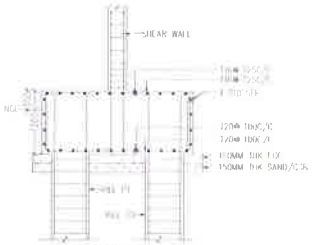
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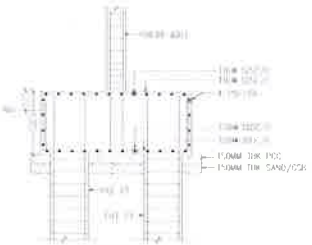
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PILECAP PC1 DETAILS



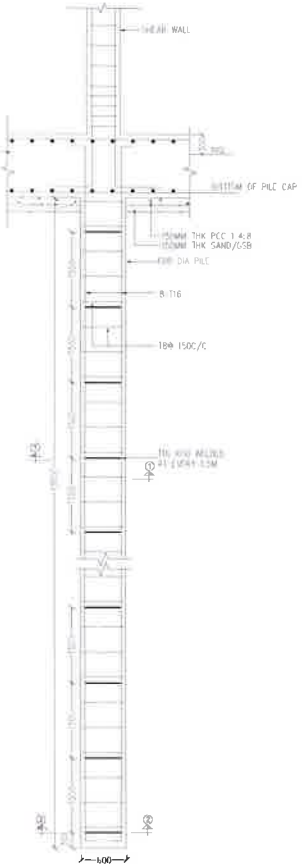
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PILECAP PC2 DETAILS



SECTION 3-3
PILECAP PC3 DETAILS



SECTION 4-4
PILECAP PC4 DETAILS



TYPICAL PILE
SECTIONAL DETAIL



SECTION 1-1
PILE P1 PLAN



SECTION 2-2
PILE P1 PLAN

General Notes:

1. All dimensions are in MM.
2. Read the drawing along with Architectural drawings
3. Use M30 Concrete and Fe500 Steel for R.C.C works
4. The structure is designed for G+9 Storey.
5. In addition to the self weight of the structure the following loads are considered in analysis.
   a. Rooms - 2 kN/m²
   b. Stair Case and Balconies - 3 kN/m²
   c. Terrace - 1.5 kN/m²
6. Pile Capacity 600mm Dia 13M Long is 75Tonnes.

NOTES :

1. COVER TO PILE CAP AT BOTTOM - 75 MM (3")
2. COVER TO PILE CAP ON OTHER SIDES - 50 MM (2")
3. COVER TO BEAM ON ALL SIDES - 30 MM (1½")
4. COVER TO SHEAR WALL ON ALL SIDES - 25MM (1")
5. COVER TO SLAB ON ALL SIDES - 20 MM (¾")
6. LAPPING LENGTH IS 50 TIMES DIA OF THE BAR

NOTE: ONLY AAC BLOCK USED FOR WALLS

A. VIJAYAKUMAR, M.E.,
Structural Engineer, GR-1,CMDA,
Reg No : SE / GR 1 / 19 / 07 / 177
73/35, Sundaraganapathy Sreet,
Ammapet, Salem-636003

REVISION DETAILS

REV NO.	DATE	DESCRIPTION
R1	07/07/23	ISSUED FOR CONSTRUCTION

PROJECT: PROPOSED RESIDENTIAL APARTMENTS
BUILDERS BLOCK

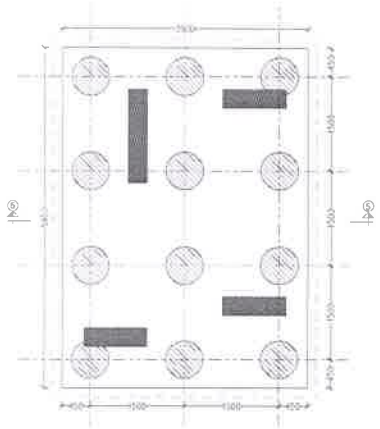
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CHECKED BY: | SCALE: N.S. | REV: R1

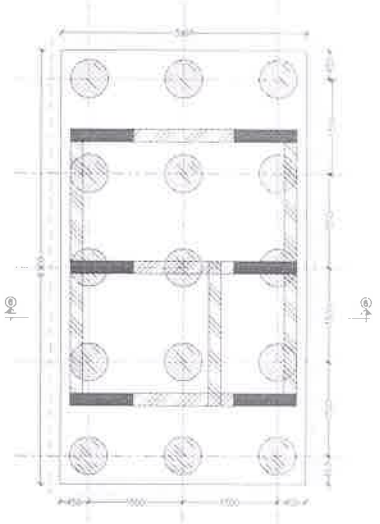
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PRINCIPAL ARCHITECTS:

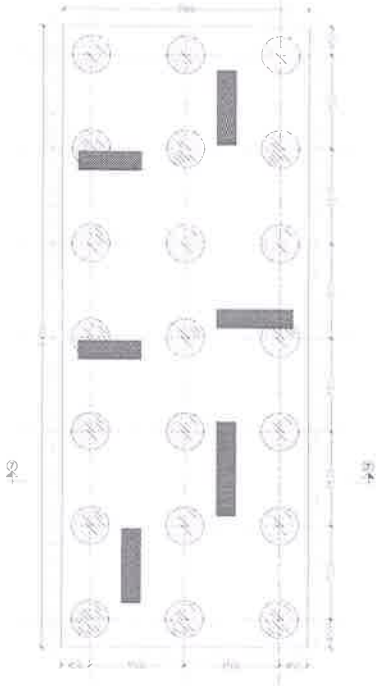
M.E.N. ASSOCIATES



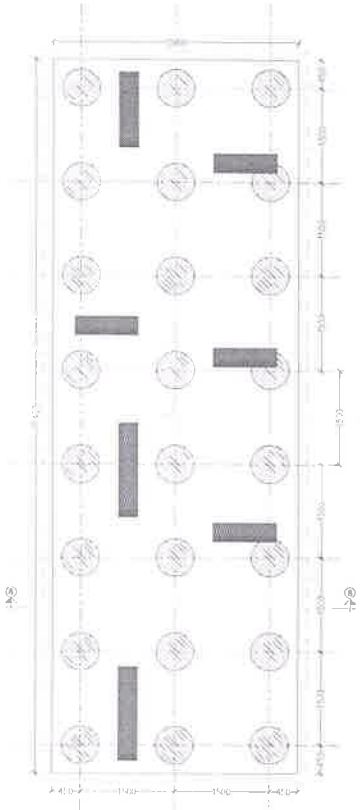
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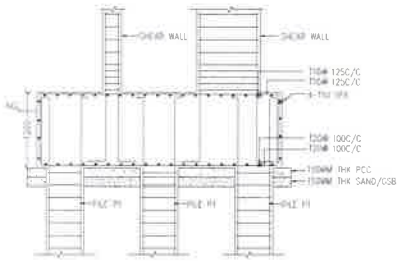
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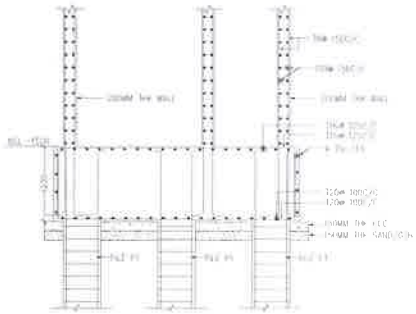
PILECAP PC7 PLAN



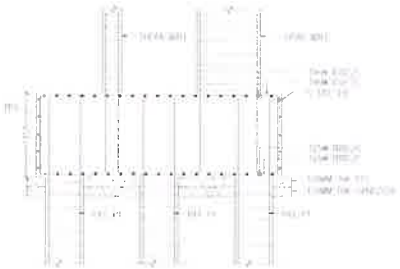
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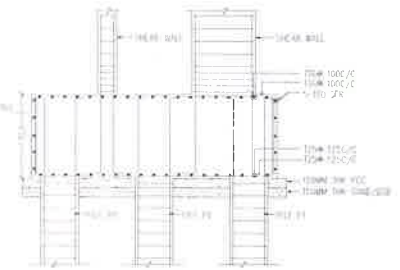
SECTION 5-5
PILECAP PC5 DETAILS



SECTION 6-6
PILECAP PC6 DETAILS



SECTION 7-7
PILECAP PC7 DETAILS



SECTION 8-8
PILECAP PC8 DETAILS

General Notes:

1. All dimensions are in MM
2. Read the drawing along with Architectural drawings
3. Use M30 Concrete and Fe500 Steel for R.C.C. work.
4. The structure is designed for G+9 Storey
5. In addition to the self weight of the structure the following loads are considered in analysis.
   a. Rooms – 2 kN/m²
   b. Stair Case and Balconies – 3 kN/m²
   c. Terrace – 1.5 kN/m²
6. Pile Capacity 600mm Dia 13M Long is 75Tonnes.

NOTES :

1. COVER TO PILE CAP AT BOTTOM = 75 MM (3")
2. COVER TO PILE CAP ON OTHER SIDES = 50 MM (2")
3. COVER TO BEAM ON ALL SIDES = 30 MM (1½")
4. COVER TO SHEAR WALL ON ALL SIDES = 25MM (1")
5. COVER TO SLAB ON ALL SIDES = 20 MM (¾")
6. LAPPING LENGTH IS 50 TIMES DIA OF THE BAR

NOTE: ONLY AAC BLOCK USED FOR WALLS

REVISION DETAILS

REV NO	DATE	DESCRIPTION
A1	17/02/21	ISSUED FOR CONSTRUCTION

PROJECT: PROPOSED RESIDENTIAL APARTMENTS
RESIDENTIAL BLOCK

DRAWING TITLE: PILE & PILE CAP DETAILS-2

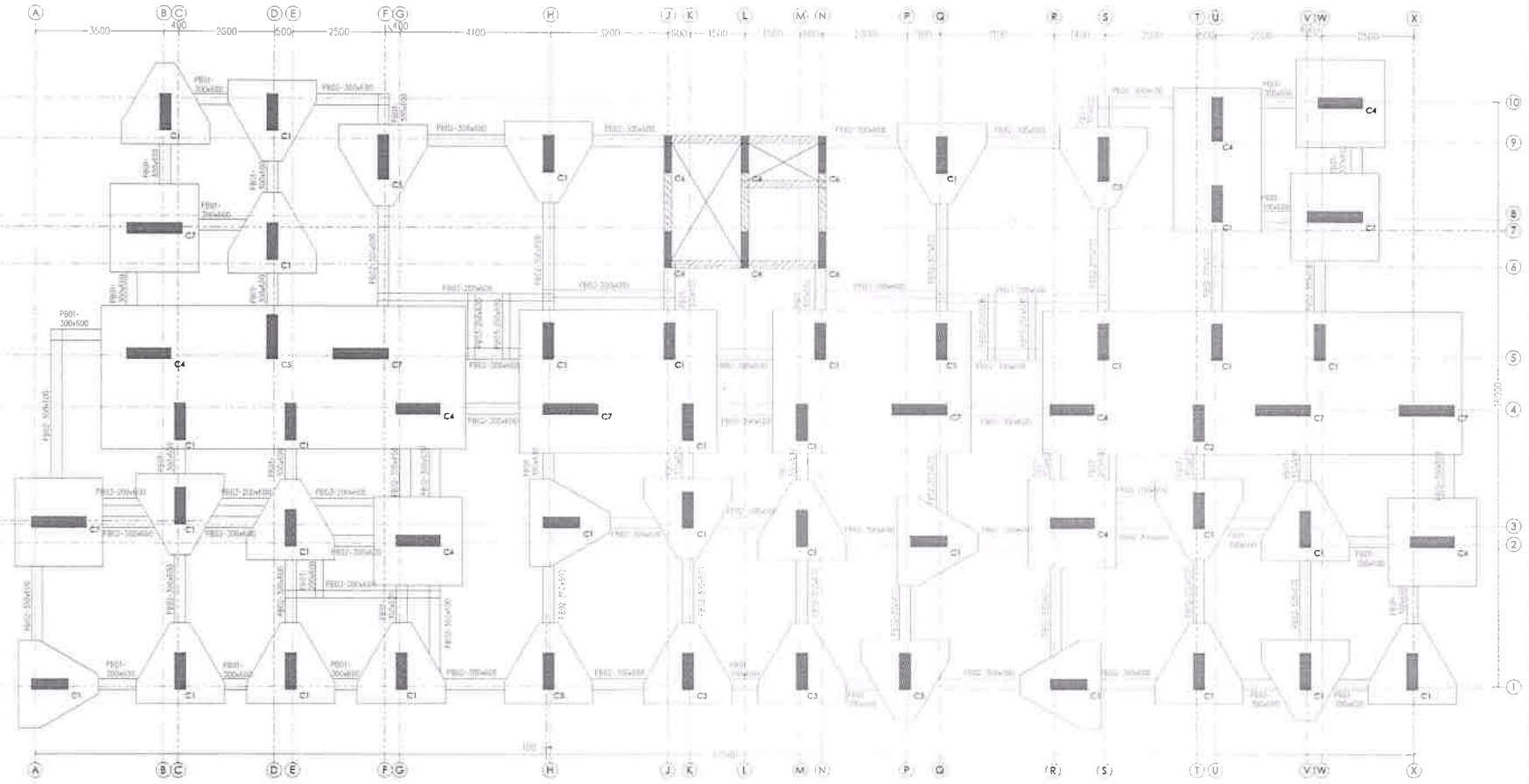
DRAWN BY: | SIZE: A1 | ISSUE DATE: 17/02/21
CHECKED BY: | SCALE: NTS | REV: A1

DRAWING NO: SD-06

PRINCIPAL ARCHITECTS:

MEN ASSOCIATES

A. VIJAYAKUMAR, M.E.,
Structural Engineer, GR-1,CMDA,
Reg No : SE / GR 1 / 19 / 07 / 177
73/35, Sundaraganapathy Sreet,
Ammapet, Salem-636003



PLINTH BEAM LAYOUT



General Notes:

1. All dimensions are in MM
2. Read the drawing along with Architectural drawings
3. Use M30 Concrete and Fe500 Steel for R.C.C. work.
4. The structure is designed for G+9 Storey
5. In addition to the self weight of the structure the following loads are considered in analysis
   a. Rooms – 2 kN/m²
   b. Stair Case and Balconies – 3 kN/m²
   c. Terrace – 1.5 kN/m²
6. Pile Capacity 600mm Dia 13M long is 75Tonnes.

NOTES :

1. COVER TO PILE CAP AT BOTTOM – 75 MM (3")
2. COVER TO PILE CAP ON OTHER SIDES – 50 MM (2")
3. COVER TO BEAM ON ALL SIDES – 30 MM (1½")
4. COVER TO SHEAR WALL ON ALL SIDES – 25MM (1")
5. COVER TO SLAB ON ALL SIDES – 20 MM (¾")
6. LAPPING LENGTH IS 50 TIMES DIA OF TIE BAR

NOTE: ONLY AAC BLOCK USED FOR WALLS

REVISION DETAILS

REV NO	DATE	DESCRIPTION
01	17/07/23	ISSUED FOR CONSTRUCTION

PROJECT: PROPOSED RESIDENTIAL APARTMENT BUILDERS BLOCK

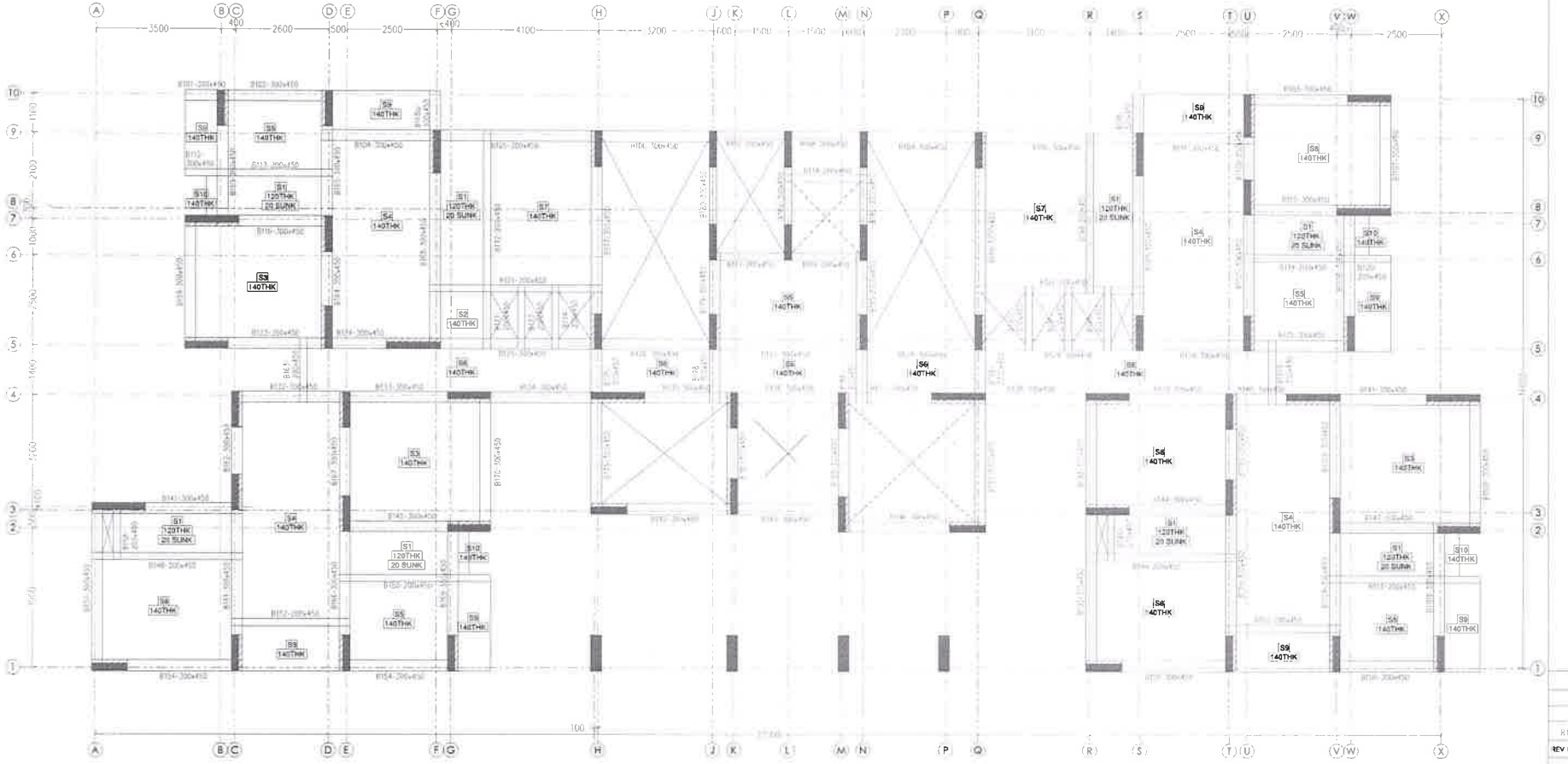
DRAWING TITLE: PLINTH BEAM LAYOUT & DETAILS

DRAWING NO: SL-09

PRINCIPAL ARCHITECTS:

MRN ASSOCIATES

A. VIJAYAKUMAR, M.E.,
Structural Engineer, GR-1,CMDA,
Reg No : SE / GR 1 / 19 / 07 / 177
73/35, Sundaraganapathy Sreet,
Ammapet, Salem-636003



FIRST FLOOR BEAM LAYOUT

General Notes:

1. All dimensions are in MM.
2. Read the drawing along with Architectural drawings.
3. Use M30 Concrete and Fe500 Steel for R.C.C works.
4. The structure is designed for G+9 Storey.
5. In addition to the self weight of the structure the following loads are considered in analysis
   a. Rooms – 2 kN/m²
   b. Stair Case and Balconies – 3 kN/m²
   c. Terrace – 1.5 kN/m²
6. Pile Capacity 600mm Dia 12M Long = 75tonnes.

NOTES :

1. COVER TO PILE CAP AT BOTTOM – 75 MM (3")
2. COVER TO PILE CAP ON OTHER SIDES – 50 MM (2")
3. COVER TO BEAM ON ALL SIDES – 30 MM (1")
4. COVER TO SHEAR WALL ON ALL SIDES – 25MM (1")
5. COVER TO SLAB ON ALL SIDES – 20 MM (¾")
6. LAPPING LENGTH IS 50 TIMES DIA OF THE BAR

NOTE: ONLY AAC BLOCK USED FOR WALLS

REVISION DETAILS

REV NO	DATE	DESCRIPTION
R1	07/07/22	WORKS FOR CONSTRUCTION

PROJECT: PROPOSED RESIDENTIAL APARTMENT @ BUILDERS BLOCK

DRAWING TITLE: FIRST FLOOR LAYOUT

DRAWN | SIZE | ISSUE DATE
CHECKED | SCALE | REV #
DRAWING NO:

PRINCIPAL ARCHITECTS:

MRN ASSOCIATES

A. VIJAYAKUMAR, M.E.,
Structural Engineer, GR-1,CMDA,
Reg No : SE / GR 1 / 19 / 07 / 177
7 73/35, Sundaraganapathy Sreet,
Ammapet, Salem-636003

FIRST FLOOR BEAM SCHEDULE

BEAM NUMBER	SIZE		BOTTOM REINFORCEMENT			TOP REINFORCEMENT			SHEAR STIRRUPS		
	B	D	LEFT	MID-SPAN	RIGHT	LEFT	MID-SPAN	RIGHT	LEFT	MID-SPAN	RIGHT
B101	300	450	3-T20	3-T20	3-T20	3-T20	3-T20	3-T20	TM@ 100C/C	TR @ 150C/C	TM@ 100C/C
B102	300	450	3-T20	3-T20	3-T20	3-T20	3-T20	3-T20	TM@ 100C/C	TR @ 150C/C	TM@ 100C/C
B103	300	450	3-T20	3-T20	3-T20	3-T20	3-T20	3-T20	TM@ 100C/C	TR @ 150C/C	TM@ 100C/C
B104	300	450	3-T20	3-T20	3-T20	3-T20	3-T20	3-T20	TM@ 100C/C	TR @ 150C/C	TM@ 100C/C
B105	300	450	3-T20	3-T20 +2-T16	3-T20	3-T20 +2-T16	3-T20	3-T20 +2-T16	TM@ 100C/C	TR @ 150C/C	TM@ 100C/C
B106	300	450	3-T20	3-T20	3-T20	3-T20	3-T20	3-T20	TM@ 100C/C	TR @ 150C/C	TM@ 100C/C
B107	300	450	3-T20	3-T20	3-T20	3-T20	3-T20	3-T20	TM@ 100C/C	TR @ 150C/C	TM@ 100C/C
B108	300	450	3-T20	3-T20	3-T20	3-T20	3-T20	3-T20	TM@ 100C/C	TR @ 150C/C	TM@ 100C/C
B109	300	450	3-T20	3-T20	3-T20	3-T20	3-T20	3-T20	TM@ 100C/C	TR @ 150C/C	TM@ 100C/C
B110	300	450	3-T20	3-T20 +2-T16	3-T20	3-T20 +2-T16	3-T20	3-T20 +2-T16	TM@ 100C/C	TR @ 150C/C	TM@ 100C/C
B111	300	450	3-T20	3-T20	3-T20	3-T20	3-T20	3-T20	TM@ 100C/C	TR @ 150C/C	TM@ 100C/C
B112	300	450	3-T20	3-T20	3-T20	3-T20	3-T20	3-T20	TM@ 100C/C	TR @ 150C/C	TM@ 100C/C
B113	300	450	3-T20	3-T20	3-T20	2-T20	2-T20	3-T20	TM@ 100C/C	TR @ 150C/C	TM@ 100C/C
B114	300	450	3-T20	2-T20	3-T20	2-T20	2-T20	3-T20	TM@ 100C/C	TR @ 150C/C	TM@ 100C/C
B115	300	450	3-T20	3-T20	3-T20	3-T20	3-T20	3-T20	TM@ 100C/C	TR @ 150C/C	TM@ 100C/C
B116	300	450	3-T20	3-T20	3-T20	3-T20	3-T20	3-T20	TM@ 100C/C	TR @ 150C/C	TM@ 100C/C
B117	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	TR @ 150C/C	TM@ 100C/C
B118	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	TR @ 150C/C	TM@ 100C/C
B119	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	TR @ 150C/C	TM@ 100C/C
B120	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	TR @ 150C/C	TM@ 100C/C
B121	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	TR @ 150C/C	TM@ 100C/C
B122	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	TR @ 150C/C	TM@ 100C/C
B123	300	450	3-T20	3-T20	3-T20	3-T20	3-T20	3-T20	TM@ 100C/C	TR @ 150C/C	TM@ 100C/C
B124	300	450	3-T20	3-T20	3-T20	3-T20	3-T20	3-T20	TM@ 100C/C	TR @ 150C/C	TM@ 100C/C
B125	300	450	3-T20	3-T20	3-T20	3-T20	3-T20	3-T20	TM@ 100C/C	TR @ 150C/C	TM@ 100C/C
B126	300	450	3-T20	3-T20	3-T20	3-T20	3-T20	3-T20	TM@ 100C/C	TR @ 150C/C	TM@ 100C/C
B127	300	450	3-T20	3-T20	3-T20	3-T20	3-T20	3-T20	TM@ 100C/C	TR @ 150C/C	TM@ 100C/C
B128	300	450	3-T20	3-T20	3-T20	3-T20	3-T20	3-T20	TM@ 100C/C	TR @ 150C/C	TM@ 100C/C
B129	300	450	3-T20	3-T20	3-T20	3-T20	3-T20	3-T20	TM@ 100C/C	TR @ 150C/C	TM@ 100C/C
B130	300	450	3-T20	3-T20	3-T20	3-T20	3-T20	3-T20	TM@ 100C/C	TR @ 150C/C	TM@ 100C/C
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B132	300	450	3-T20	3-T20	3-T20	3-T20	3-T20	3-T20	TM@ 100C/C	TR @ 150C/C	TM@ 100C/C
B133	300	450	3-T20	3-T20	3-T20	3-T20	3-T20	3-T20	TM@ 100C/C	TR @ 150C/C	TM@ 100C/C
B134	300	450	3-T20	3-T20	3-T20	3-T20	3-T20	3-T20	TM@ 100C/C	TR @ 150C/C	TM@ 100C/C
B135	300	450	3-T20	3-T20	3-T20	3-T20	3-T20	3-T20	TM@ 100C/C	TR @ 150C/C	TM@ 100C/C
B136	300	450	3-T20	3-T20	3-T20	3-T20	3-T20	3-T20	TM@ 100C/C	TR @ 150C/C	TM@ 100C/C
B137	300	450	3-T20	3-T20	3-T20	3-T20	3-T20	3-T20	TM@ 100C/C	TR @ 150C/C	TM@ 100C/C
B138	300	450	3-T20	3-T20	3-T20	3-T20	3-T20	3-T20	TM@ 100C/C	TR @ 150C/C	TM@ 100C/C
B139	300	450	3-T20	3-T20	3-T20	3-T20	3-T20	3-T20	TM@ 100C/C	TR @ 150C/C	TM@ 100C/C
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B141	300	450	3-T20	3-T20	3-T20	3-T20	3-T20	3-T20	TM@ 100C/C	TR @ 150C/C	TM@ 100C/C
B142	300	450	3-T20	3-T20	3-T20	3-T20	3-T20	3-T20	TM@ 100C/C	TR @ 150C/C	TM@ 100C/C
B143	300	450	3-T20	3-T20	3-T20	3-T20	3-T20	3-T20	TM@ 100C/C	TR @ 150C/C	TM@ 100C/C
B144	300	450	3-T20	3-T20	3-T20	3-T20	3-T20	3-T20	TM@ 100C/C	TR @ 150C/C	TM@ 100C/C
B145	300	450	3-T20	3-T20	3-T20	3-T20	3-T20	3-T20	TM@ 100C/C	TR @ 150C/C	TM@ 100C/C
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B149	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	TR @ 150C/C	TM@ 100C/C
B150	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	TR @ 150C/C	TM@ 100C/C
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B155	300	450	3-T20	3-T20	3-T20	3-T20	3-T20	3-T20	TM@ 100C/C	TR @ 150C/C	TM@ 100C/C
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S16A	300	450	3-T20	3-T20 +2-T16	3-T20	3-T20 +2-T16	3-T20	3-T20 +2-T16	TM@ 100C/C	TR @ 150C/C	TM@ 100C/C
B169	300	450	3-T20	3-T20	3-T20	3-T20	3-T20	3-T20	TM@ 100C/C	TR @ 150C/C	TM@ 100C/C
B170	300	450	3-T20	3-T20	3-T20	3-T20	3-T20	3-T20	TM@ 100C/C	TR @ 150C/C	TM@ 100C/C
B171	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	TR @ 150C/C	TM@ 100C/C
B172	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	TR @ 150C/C	TM@ 100C/C
B173	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	TR @ 150C/C	TM@ 100C/C
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B176	300	450	3-T20	3-T20	3-T20	3-T20	3-T20	3-T20	TM@ 100C/C	TR @ 150C/C	TM@ 100C/C
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B183	300	450	3-T20	3-T20	3-T20	3-T20	3-T20	3-T20	TM@ 100C/C	TR @ 150C/C	TM@ 100C/C
B184	300	450	3-T20	3-T20	3-T20	3-T20	3-T20	3-T20	TM@ 100C/C	TR @ 150C/C	TM@ 100C/C
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B190	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	TR @ 150C/C	TM@ 100C/C
B191	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	TR @ 150C/C	TM@ 100C/C
B192	300	450	3-T20	3-T20	3-T20	3-T20	3-T20	3-T20	TM@ 100C/C	TR @ 150C/C	TM@ 100C/C
B193	300	450	3-T20	3-T20	3-T20	3-T20	3-T20	3-T20	TM@ 100C/C	TR @ 150C/C	TM@ 100C/C
B194	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	TR @ 150C/C	TM@ 100C/C
B195	300	450	3-T20	2-T20	2-T20	3-T20	3-T20	3-T20	TM@ 100C/C	TR @ 150C/C	TM@ 100C/C
B196	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	TR @ 150C/C	TM@ 100C/C
B197	300	450	3-T20	3-T20	3-T20	3-T20	3-T20	3-T20	TM@ 100C/C	TR @ 150C/C	TM@ 100C/C
B198	300	450	3-T20	3-T20	3-T20	3-T20	3-T20	3-T20	TM@ 100C/C	TR @ 150C/C	TM@ 100C/C
B199	300	450	3-T20	3-T20	3-T20	3-T20	3-T20	3-T20	TM@ 100C/C	TR @ 150C/C	TM@ 100C/C
B1100	300	450	3-T20	3-T20	3-T20	3-T20	3-T20	3-T20	TM@ 100C/C	TR @ 150C/C	TM@ 100C/C
B1101	300	450	3-T20	3-T20	3-T20	3-T20	3-T20	3-T20	TM@ 100C/C	TR @ 150C/C	TM@ 100C/C
B1102	300	450	3-T20	3-T20	3-T20	3-T20	3-T20	3-T20	TM@ 100C/C	TR @ 150C/C	TM@ 100C/C
B1103	300	450	3-T20	3-T20	3-T20	3-T20	3-T20	3-T20	TM@ 100C/C	TR @ 150C/C	TM@ 100C/C

FIRST FLOOR BEAM SCHEDULE

BEAM	SIZE		BOTTOM REINFORCEMENT			TOP REINFORCEMENT			SHEAR STIRRUPS		
	B	D	LEFT	MID-SPAN	RIGHT	LEFT	MID-SPAN	RIGHT	LEFT	MID-SPAN	RIGHT
B1104	300	450	3-T20	3-T20	3-T20	3-T20	3-T20	3-T20	TM@ 100C/C	TR @ 150C/C	TM@ 100C/C
B1105	300	450	3-T20	3-T20	3-T20	3-T20	3-T20	3-T20	TM@ 100C/C	TR @ 150C/C	TM@ 100C/C
B1106	300	450	3-T20	3-T20	3-T20	3-T20	3-T20	3-T20	TM@ 100C/C	TR @ 150C/C	TM@ 100C/C
B1107	300	450	3-T20	3-T20	3-T20	3-T20	3-T20	3-T20	TM@ 100C/C	TR @ 150C/C	TM@ 100C/C
B1108	300	450	3-T20	3-T20	3-T20	3-T20	3-T20	3-T20	TM@ 100C/C	TR @ 150C/C	TM@ 100C/C
B1109	300	450	3-T20	3-T20	3-T20	3-T20	3-T20	3-T20	TM@ 100C/C	TR @ 150C/C	TM@ 100C/C

FIRST FLOOR SLAB SCHEDULE

SLAB NUMBERS	THK	TYPE	BOTTOM REINFORCEMENT		DIST.
			SHORT SPAN	LONG SPAN	
S1	120 MM	DOUBLE MAT	T8 @ 175	T8 @ 200	-
S2	140 MM	DOUBLE MAT	T8 @ 200	T8 @ 200	-
S3	140 MM	2 WAY	T8 @ 125	T8 @ 125	T8 @ 200
S4	140 MM	1 WAY	T8 @ 125	-	T8 @ 200
S5	140 MM	2 WAY	T8 @ 150	T8 @ 175	T8 @ 200
S6	140 MM	DOUBLE MAT	T8 @ 175	T8 @ 200	-
S7	140 MM	2 WAY	T8 @ 125	T8 @ 150	T8 @ 200
S8	140 MM	2 WAY	T8 @ 150	T8 @ 150	T8 @ 200
S9	140 MM	CANT	REFER SECTION A A		
S10	140 MM	CANT	REFER SECTION B-B		

General Notes

1. All dimensions are in MM.
2. Read the drawings along with Architectural drawings.
3. Use M20 Concrete and Fe500 Steel for R.C.C. works.
4. The structure is designed for Safe Bearing
5. In addition to the self weight of the structure, the following loads are considered in design.
   a. Wall load = 2 kN/m
   b. Slab load and finishes = 1.5 kN/m²
   c. Parapet = 1.5 kN/m
   d. Live Capacity 400mm Dia Unit Load = 150kg/m²

NOTES :

1. STEEL TO BE USE AS FE500
2. COVER TO PILE CAP 50 OTHER SIDES - 75 MM (3")
3. COVER TO BEAM ON ALL SIDES - 30 MM (1")
4. COVER TO SHEAR WALL ON ALL SIDES - 25MM (1")
5. COVER TO SLAB ON ALL SIDES - 20 MM (3/4")
6. LAPPING LENGTH IS 50 TIMES DIA OF THE BAR

NOTE: ONLY AAC BLOCK USED FOR WALLS

A. VIJAYAKUMAR, M.E.,
Structural Engineer, GR-1,CMDA,
Reg No : SE / GR 1 / 19 / 07 / 177
73/35, Sundaraganapathy Sreet,
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REVISION DETAILS

REV NO	DATE	DESCRIPTION
01	17.07.23	ISSUED FOR CONSTRUCTION

PROJECT: PROPOSED RESIDENTIAL APARTMENTS BUILDERS BLOCK

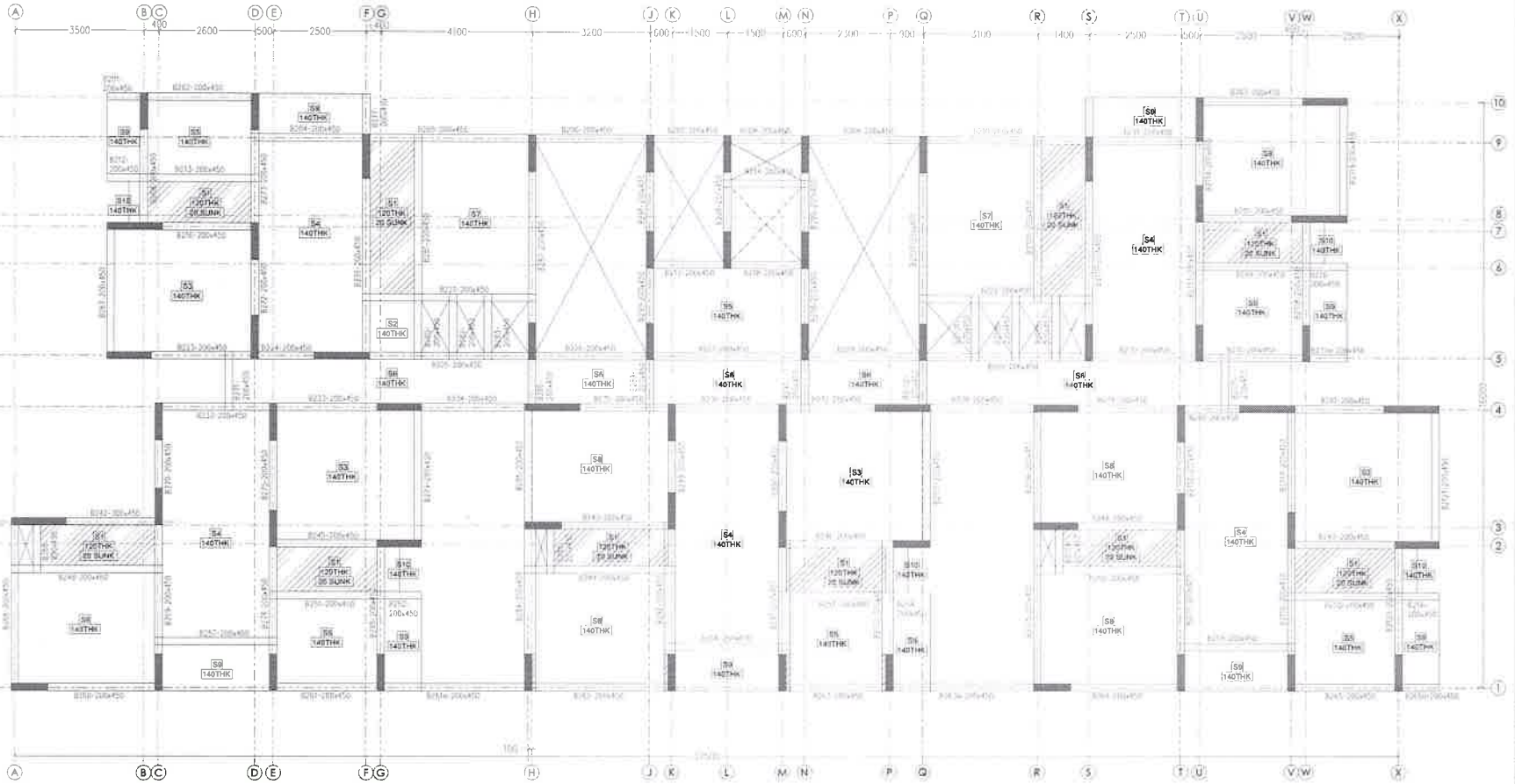
DRAWING TITLE: FIRST FLOOR DETAILS

DRAWN BY: | SIZE: A1 | ISSUE DATE: 17.07.23
CHECKED BY: | SCALE: 1:75 | REV: 01

DRAWING NO: SD-11

PRINCIPAL ARCHITECTS:

M E N ASSOCIATES



SECOND FLOOR BEAM LAYOUT

General Notes:

1. All dimensions are in MM.
2. Read the drawing along with Architectural drawings.
3. Use M30 Concrete and Fe500 Steel for R.C.C. works.
4. The structure is designed for G+9 Storey.
5. In addition to the self weight of the structure the following loads are considered in analysis
   a. Rooms – 2 kN/m²
   b. Stair Case and Balconies – 3 kN/m²
   c. Terrace – 1.5 kN/m²
6. Pile Capacity 600mm Dia 13M Long is 75tonnes.

NOTES :

1. COVER TO PILE CAP AT BOTTOM = 75 MM (3")
2. COVER TO PILE CAP ON OTHER SIDES = 50 MM (2")
3. COVER TO BEAM ON ALL SIDES = 30 MM (1")
4. COVER TO SHEAR WALL ON ALL SIDES = 25MM (1")
5. COVER TO SLAB ON ALL SIDES = 20 MM (¾")
6. LAPPING LENGTH IS 50 TIMES DIA OF THE BAR

NOTE: ONLY AAC BLOCK USED FOR WALLS

REVISION DETAILS

REV NO	DATE	DESCRIPTION
		ISSUED FOR CONSTRUCTION

PROJECT: PROPOSED RESIDENTIAL APARTMENTS BUILDERS BLOCK

DRAWING TITLE: SECOND FLOOR LAYOUT

DRAWN BY: | SIZE: A1 | ISSUE DATE:
CHECKED BY: | SCALE: 1:100 | REV NO:

DRAWING NO:

PRINCIPAL ARCHITECTS

MRN ASSOCIATES

A. VIJAYAKUMAR, M.E.,
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73/35, Sundaraganapathy Sreet,
Ammapet, Salem-636003

SECOND FLOOR FLOOR BEAM SCHEDULE

BEAM NUMBER	SIZE B	SIZE D	BOTTOM REINFORCEMENT LEFT	BOTTOM REINFORCEMENT MID-SPAN	BOTTOM REINFORCEMENT RIGHT	TOP REINFORCEMENT LEFT	TOP REINFORCEMENT MID-SPAN	TOP REINFORCEMENT RIGHT	SHEAR STIRRUPS LEFT	SHEAR STIRRUPS MID-SPAN	SHEAR STIRRUPS RIGHT
B201	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B202	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B203	200	450	2-T20 +2-T20	2-T20	2-T20 +2-T20	2-T20 +2-T20	2-T20	2-T20 +2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B204	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B205	200	450	2-T20	2-T20 +2-T20	2-T20	2-T20 +2-T20	2-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B206	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B207	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B208	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B209	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B210	200	450	2-T20 +2-T20	2-T20	2-T20	2-T20 +2-T20	2-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B211	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B212	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B213	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B214	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B215	200	450	2-T20 +2-T20	2-T20 +2-T20	2-T20 +2-T20	2-T20 +2-T20	2-T20 +2-T20	2-T20 +2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B216	200	450	2-T20 +2-T20	2-T20 +2-T20	2-T20 +2-T20	2-T20 +2-T20	2-T20 +2-T20	2-T20 +2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B217	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B218	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B219	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B220	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B221	200	450	2-T20	2-T20 +2-T20	2-T20	2-T20 +2-T20	2-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B222	200	450	2-T20	2-T20 +2-T20	2-T20	2-T20 +2-T20	3-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B223	200	450	2-T20 +2-T20	2-T20	2-T20 +2-T20	2-T20 +2-T20	2-T20	2-T20 +2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B224	200	450	2-T20	3-T20	2-T20	2-T20	3-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B225	200	450	2-T20	2-T20 +2-T20	2-T20	2-T20 +2-T20	2-T20	2-T20 +2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B226	200	450	2-T20	3-T20	2-T20	2-T20	3-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B227	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B228	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B229	200	450	2-T20 +2-T20	2-T20	2-T20 +2-T20	2-T20 +2-T20	2-T20	2-T20 +2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B230	200	450	2-T20	2-T20	2-T20	3-T20	3-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B231	200	450	2-T20	2-T20	2-T20	3-T20	2-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B231a	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TMP 100C/C	T8 @ 100C/C	TMP 100C/C
B232	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B233	200	450	2-T20	2-T20	2-T20 +2-T20	2-T20 +2-T20	2-T20	2-T20 +2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B234	200	450	2-T20 +2-T20	2-T20 +2-T20	2-T20 +2-T20	2-T20 +2-T20	2-T20 +2-T20	2-T20 +2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B235	200	450	2-T20 +2-T20	2-T20 +2-T20	2-T20 +2-T20	2-T20 +2-T20	2-T20 +2-T20	2-T20 +2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B236	200	450	2-T20 +2-T20	2-T20 +2-T20	2-T20 +2-T20	2-T20 +2-T20	2-T20 +2-T20	2-T20 +2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B237	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B238	200	450	2-T20 +2-T20	2-T20 +2-T20	2-T20 +2-T20	2-T20 +2-T20	2-T20 +2-T20	2-T20 +2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B239	200	450	2-T20 +2-T20	2-T20	2-T20 +2-T20	2-T20 +2-T20	2-T20	2-T20 +2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B240	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B241	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B242	200	450	2-T20 +2-T20	2-T20	2-T20 +2-T20	2-T20 +2-T20	2-T20	2-T20 +2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B243	200	450	2-T20 +2-T20	2-T20	2-T20 +2-T20	2-T20 +2-T20	2-T20	2-T20 +2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B244	200	450	2-T20 +2-T20	2-T20	2-T20 +2-T20	2-T20 +2-T20	2-T20	2-T20 +2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B245	200	450	2-T20 +2-T20	2-T20	2-T20 +2-T20	2-T20 +2-T20	2-T20	2-T20 +2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B246	200	450	2-T20 +2-T20	2-T20	2-T20 +2-T20	2-T20 +2-T20	2-T20	2-T20 +2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B247	200	450	2-T20 +2-T20	2-T20	2-T20 +2-T20	2-T20 +2-T20	2-T20	2-T20 +2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B248	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B249	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B250	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B251	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B252	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B253	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B254	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B255	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B256	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B257	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B258	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B259	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B260	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B261	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B261a	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B262	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B263	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B263a	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B264	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B265	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B265a	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B266	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B267	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B268	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B269	200	450	2-T20 +2-T20	2-T20	2-T20 +2-T20	2-T20 +2-T20	2-T20	2-T20 +2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B270	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B271	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B272	200	450	2-T20 +2-T16	2-T20	2-T20 +2-T16	2-T20 +2-T20	2-T20 +2-T20	2-T20 +2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B273	200	450	2-T20 +2-T16	2-T20	2-T20 +2-T16	2-T20 +2-T20	2-T20	2-T20 +2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B274	200	450	2-T20 +2-T16	2-T20	2-T20 +2-T16	2-T20 +2-T20	2-T20	2-T20 +2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B275	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B276	200	450	2-T20	2-T20 +2-T20	2-T20	2-T20 +2-T20	2-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C

SECOND FLOOR FLOOR BEAM SCHEDULE

BEAM NUMBER	SIZE B	SIZE D	BOTTOM REINFORCEMENT LEFT	BOTTOM REINFORCEMENT MID-SPAN	BOTTOM REINFORCEMENT RIGHT	TOP REINFORCEMENT LEFT	TOP REINFORCEMENT MID-SPAN	TOP REINFORCEMENT RIGHT	SHEAR STIRRUPS LEFT	SHEAR STIRRUPS MID-SPAN	SHEAR STIRRUPS RIGHT
B277	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B278	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B279	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B280	200	450	2-T20	2-T20	2-T20	3-T20	2-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B281	200	450	2-T20 +2-T20	2-T20	2-T20 +2-T20	2-T20 +2-T20	2-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B282	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B283	200	450	2-T20	2-T20	2-T20	3-T20	2-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B284	300	450	3-T20	3-T20	3-T20	3-T20	3-T20	3-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B285	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B286	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B287	200	450	2-T20 +2-T20	2-T20	2-T20 +2-T20	2-T20 +2-T20	2-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B288	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B289	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B290	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B291	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B292	300	450	3-T20	3-T20	3-T20	3-T20	3-T20	3-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B293	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B294	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B295	300	450	3-T20	3-T20	3-T20	3-T20	3-T20	3-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B296	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B297	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B298	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B299	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B2100	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B2101	300	450	3-T20	3-T20	3-T20	3-T20	3-T20	3-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B2102	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B2103	200	450	2-T20 +2-T20	2-T20	2-T20 +2-T20	2-T20	2-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B2104	200	450	3-T20	3-T20	3-T20	3-T20	3-T20	3-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B2105	200	450	3-T20	3-T20	3-T20	3-T20	3-T20	3-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B2106	200	450	3-T20	3-T20	3-T20	3-T20	3-T20	3-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B2107	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B2108	200	450	2-T20	3-T20	3-T20	2-T20	2-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B2109	200	450	2-T20	3-T20	3-T20	3-T20	3-T20	3-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B2110	200	450	2-T20 +2-T20	2-T20	2-T20 +2-T20	2-T20	2-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B2111	200	450	3-T20	3-T20	3-T20	3-T20	2-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B2112	200	450	2-T20 +2-T20	2-T20	2-T20 +2-T20	2-T20 +2-T20	2-T20	2-T20 +2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B2113	300	450	2-T20	3-T20	2-T20	2-T20	3-T20	3-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B2114	200	450	2-T20 +2-T20	2-T20	2-T20 +2-T20	2-T20 +2-T20	2-T20	2-T20 +2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B2115	300	450	2-T20	3-T20	2-T20	2-T20	3-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B2116	200	450	2-T20	3-T20	2-T20	2-T20	3-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B2117	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B2118	200	450	2-T20	3-T20	2-T20	2-T20	3-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B2119	200	450	2-T20	3-T20	2-T20	2-T20	2-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B2120	300	450	3-T20	3-T20	3-T20	3-T20	2-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C
B2121	200	450	2-T20	3-T20	2-T20	2-T20	2-T20	2-T20	TMP 100C/C	T8 @ 150C/C	TMP 100C/C

SECOND FLOOR SLAB SCHEDULE

SLAB NUMBERS	THK	TYPE	BOTTOM REINFORCEMENT SHORT SPAN	BOTTOM REINFORCEMENT LONG SPAN	DIST.
S1	120 MM	DOUBLE MAT	T8 @ 175	T8 @ 200	-
S2	140 MM	DOUBLE MAT	T8 @ 200	T8 @ 200	-
S3	140 MM	2-WAY	T8 @ 125	T8 @ 125	T8 @ 200
S4	140 MM	1-WAY	T8 @ 125	-	T8 @ 200
S5	140 MM	2-WAY	T8 @ 150	T8 @ 175	T8 @ 200
S6	140 MM	DOUBLE MAT	T8 @ 175	T8 @ 200	-
S7	140 MM	2-WAY	T8 @ 125	T8 @ 150	T8 @ 200
S8	140 MM	2-WAY	T8 @ 150	T8 @ 150	T8 @ 200
S9	140 MM	CANT	REFER SECTION A-A		
S10	140 MM	CANT	REFER SECTION B-B		

General Notes:

1. All dimensions are in MM.
2. Read this in conjunction with Architectural drawings.
3. Use RCC Concrete and TMT for Steel in R.C.C work.
4. The structure is designed for Soft Strata.
5. In addition to the self weight of the structure, the following loads are considered in design.
   a. Roofs - 2 kN/m²
   b. Slab Live and Dead load - 3 kN/m²
   c. Terrace - 1.5 kN/m²
   d. Floor Capacity Modern Dry Silt Load in 75mm thk.

NOTES :

1. DESIGN TO BE DONE AT SUPERVISION - 12 MM (1/2")
2. COVER TO BE USED ON OTHER SIDES - 12 MM (1/2")
3. COVER TO BEAM ON ALL SIDES - 25 MM (1")
4. COVER TO SHEAR WALL ON ALL SIDES - 25MM (1")
5. COVER TO SLAB ON ALL SIDES - 20 MM (3/4")
6. LAPPING LENGTH IS 50 TIMES DIA OF THE BAR

NOTE: ONLY AAC BLOCK USED FOR WALLS

A. VIJAYAKUMAR, M.E.,
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73/35, Sundaraganapathy Sreet,
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REVISION DETAILS		
NO	17/01/23	ISSUED FOR CONSTRUCTION
REV NO	DATE	DESCRIPTION

PROJECT: PROPOSED RESIDENTIAL APARTMENTS BUILDERS BLOCK

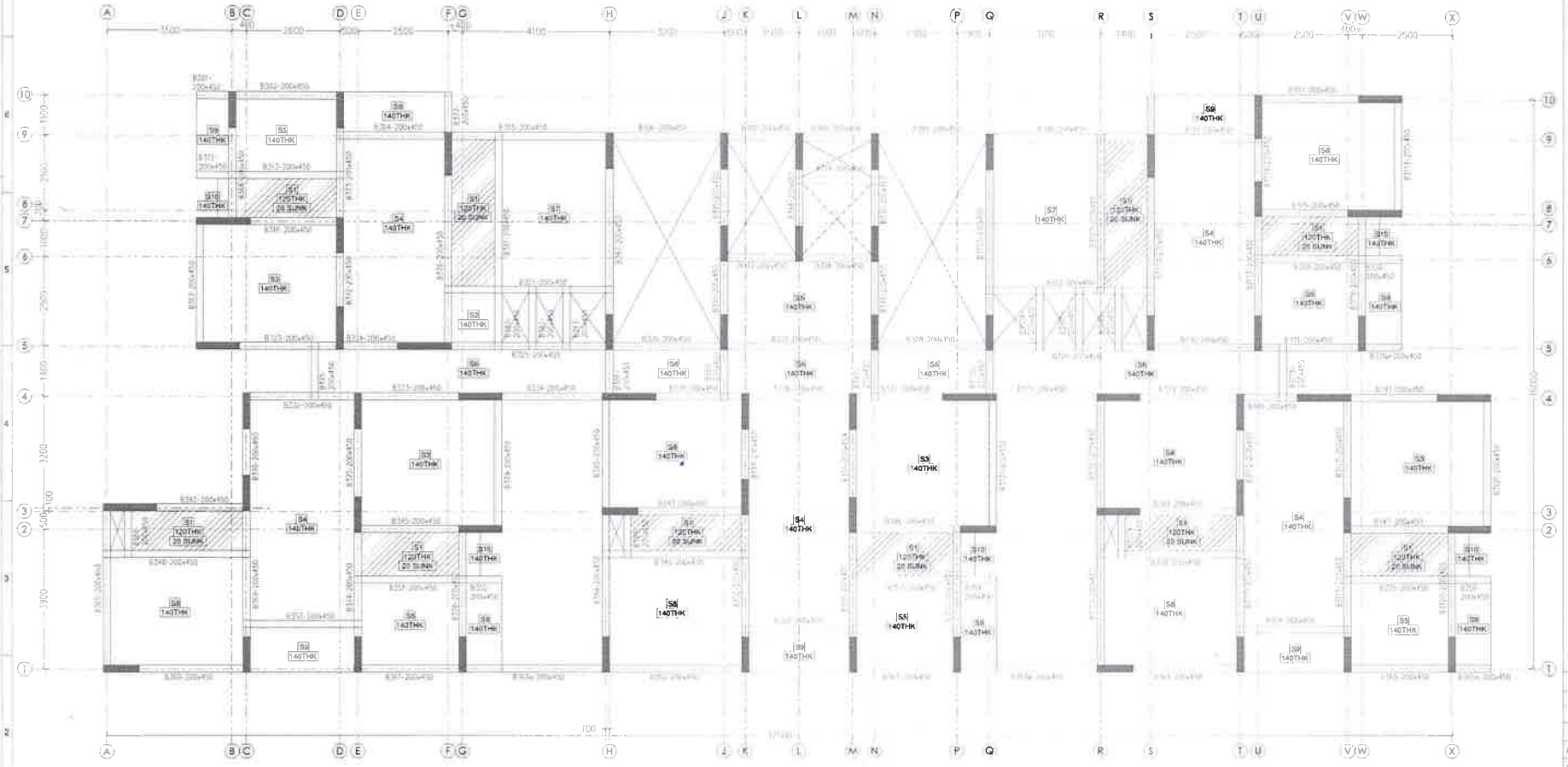
DRAWING TITLE: SECOND FLOOR DETAILS

DRAWN BY:	SIZE: A1	ISSUE DATE: 17/01/23
CHECKED BY:	SCALE: NTS	REV: 01

DRAWING NO: SD-03

PRINCIPAL ARCHITECTS:

MRN ASSOCIATES



TYPICAL FLOOR (3RD TO 9TH) BEAM LAYOUT

General Notes:

1. All dimensions are in MM
2. Read the drawing along with Architectural drawings
3. Use M30 Concrete and Fe500 Steel for R.C.C. works
4. The structure is designed for G+9 Storey
5. In addition to the self weight of the structure the following loads are considered in analysis
   a. Rooms – 2 kN/m²
   b. Stair Case and Balconies – 3 kN/m²
   c. Terrace – 1.5 kN/m²
6. Pile Capacity 600mm Dia 13M Long is 75Tonnes.

NOTES :

1. COVER TO PILE CAP AT BOTTOM – 75 MM (3")
2. COVER TO PILE CAP ON OTHER SIDES – 50 MM (2")
3. COVER TO BEAM ON ALL SIDES – 30 MM (1½")
4. COVER TO SHEAR WALL ON ALL SIDES – 25MM (1")
5. COVER TO SLAB ON ALL SIDES – 20 MM (¾")
6. LAPPING LENGTH IS 50 TIMES DIA OF THE BAR

NOTE: ONLY AAC BLOCK USED FOR WALLS

REVISION DETAILS

REV NO	DATE	DESCRIPTION

PROJECT: PROPOSED RESIDENTIAL APARTMENTS BUILDERS BLOCK

DRAWING TITLE: TYPICAL FLOOR LAYOUT

DRAWING NO:

PRINCIPAL ARCHITECTS:

MRN ASSOCIATES

A. VIJAYAKUMAR, M.E.,
Structural Engineer, GR-1,CMDA,
Reg No : SE / GR 1 / 19 / 07 / 177
73/35, Sundaraganapathy Sreet,
Ammapet, Salem 636003

TYPICAL FLOOR FLOOR BEAM SCHEDULE

BEAM NUMBER	SIZE		BOTTOM REINFORCEMENT			TOP REINFORCEMENT			SHEAR STIRRUPS		
	B	D	LEFT	MID-SPAN	RIGHT	LEFT	MID-SPAN	RIGHT	LEFT	MID-SPAN	RIGHT
B301	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B302	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B303	200	450	2-T20 +2-T20	2-T20	2-T20 +2-T20	2-T20 +2-T20	2-T20	2-T20 +2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B304	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B305	200	450	2-T20	2-T20 +2-T20	2-T20	2-T20 +2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B306	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B307	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B308	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B309	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B310	200	450	2-T20	2-T20 +2-T20	2-T20	2-T20 +2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B311	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B312	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B313	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B314	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B315	200	450	2-T20 +2-T20	2-T20 +2-T20	2-T20 +2-T20	2-T20 +2-T20	2-T20 +2-T20	2-T20 +2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B316	200	450	2-T20 +2-T20	2-T20 +2-T20	2-T20 +2-T20	2-T20 +2-T20	2-T20 +2-T20	2-T20 +2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B317	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B318	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B319	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B320	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B321	200	450	2-T20	2-T20 +2-T20	2-T20	2-T20 +2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B322	200	450	2-T20	2-T20 +2-T20	2-T20	2-T20 +2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B323	200	450	2-T20 +2-T20	2-T20 +2-T20	2-T20 +2-T20	2-T20 +2-T20	2-T20 +2-T20	2-T20 +2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B324	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B325	200	450	2-T20	2-T20 +2-T20	2-T20	2-T20 +2-T20	2-T20	2-T20 +2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B326	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B327	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B328	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B329	200	450	2-T20	2-T20 +2-T20	2-T20	2-T20 +2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B330	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B331	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B331a	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B332	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B333	200	450	2-T20 +2-T20	2-T20 +2-T20	2-T20 +2-T20	2-T20 +2-T20	2-T20 +2-T20	2-T20 +2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B334	200	450	2-T25 +2-T20	2-T25 +2-T20	2-T25 +2-T20	2-T25 +2-T20	2-T25 +2-T20	2-T25 +2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B335	200	450	2-T20 +2-T20	2-T20 +2-T20	2-T20 +2-T20	2-T20 +2-T20	2-T20 +2-T20	2-T20 +2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B336	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B337	200	450	2-T20 +2-T20	2-T20 +2-T20	2-T20 +2-T20	2-T20 +2-T20	2-T20 +2-T20	2-T20 +2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B338	200	450	2-T25 +2-T20	2-T25 +2-T20	2-T25 +2-T20	2-T25 +2-T20	2-T25 +2-T20	2-T25 +2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B339	200	450	2-T20 +2-T20	2-T20 +2-T20	2-T20 +2-T20	2-T20 +2-T20	2-T20 +2-T20	2-T20 +2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B340	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B341	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B342	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B343	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B344	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B345	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B346	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B347	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B348	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B349	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B350	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B351	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B352	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B353	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B354	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B355	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B356	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B357	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B358	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B359	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B360	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B361	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B361a	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B362	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B363	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B363a	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B364	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B365	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B365a	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B366	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B367	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B368	200	450	2-T20 +2-T20	2-T20	2-T20 +2-T20	2-T20 +2-T20	2-T20	2-T20 +2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B369	200	450	2-T20 +2-T20	2-T20	2-T20 +2-T20	2-T20 +2-T20	2-T20	2-T20 +2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B370	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B371	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B372	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B373	200	450	2-T20 +2-T20	2-T20	2-T20 +2-T20	2-T20 +2-T20	2-T20	2-T20 +2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B374	200	450	2-T20 +2-T20	2-T20	2-T20 +2-T20	2-T20 +2-T20	2-T20	2-T20 +2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B375	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B376	200	450	2-T20	2-T20 +2-T20	2-T20	2-T20 +2-T20	2-T20	2-T20 +2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B377	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B378	200	450	2-T20 +2-T20	2-T20	2-T20	2-T20 +2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B379	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B380	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C

TYPICAL FLOOR FLOOR BEAM SCHEDULE

BEAM NUMBER	SIZE		BOTTOM REINFORCEMENT			TOP REINFORCEMENT			SHEAR STIRRUPS		
	B	D	LEFT	MID-SPAN	RIGHT	LEFT	MID-SPAN	RIGHT	LEFT	MID-SPAN	RIGHT
B381	200	450	2-T20	2-T20 +2-T20	2-T20	2-T20 +2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B382	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B383	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B384	200	450	2-T20 +2-T20	2-T20	2-T20	2-T20 +2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B385	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B386	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B387	200	450	2-T20	2-T20 +2-T20	2-T20	2-T20 +2-T20	2-T20	2-T20 +2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B388	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B389	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B390	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B391	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B392	200	450	2-T20 +2-T20	2-T20	2-T20 +2-T20	2-T20 +2-T20	2-T20	2-T20 +2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B393	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B394	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B395	200	450	2-T20 +2-T20	2-T20	2-T20 +2-T20	2-T20 +2-T20	2-T20	2-T20 +2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B396	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B397	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B398	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B399	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B3100	200	450	2-T20	2-T20	2-T20	2-T20 +2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B3101	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B3102	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B3103	200	450	2-T20	2-T20 +2-T20	2-T20	2-T20 +2-T20	2-T20	2-T20 +2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B3104	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B3105	200	450	2-T20 +2-T20	2-T20	2-T20 +2-T20	2-T20 +2-T20	2-T20	2-T20 +2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B3106	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B3107	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B3108	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B3109	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B3110	200	450	2-T20	2-T20	2-T20	2-T20 +2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B3111	200	450	2-T20 +2-T20	2-T20	2-T20 +2-T20	2-T20 +2-T20	2-T20	2-T20 +2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B3112	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B3113	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B3114	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B3115	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B3116	200	450	2-T20 +2-T20	2-T20	2-T20 +2-T20	2-T20 +2-T20	2-T20	2-T20 +2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B3117	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B3118	200	450	2-T20 +2-T20	2-T20	2-T20 +2-T20	2-T20 +2-T20	2-T20	2-T20 +2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B3119	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B3120	200	450	2-T20 +2-T20	2-T20	2-T20 +2-T20	2-T20 +2-T20	2-T20	2-T20 +2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B3121	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C

TYPICAL FLOOR SLAB SCHEDULE

SLAB NUMBERS	THK	TYPE	BOTTOM REINFORCEMENT		DIST.
			SHORT SPAN	LONG SPAN	
S1	120 MM	DOUBLE MAT	T8 @ 175	T8 @ 200	-
S2	140 MM	DOUBLE MAT	T8 @ 200	T8 @ 200	-
S3	140 MM	2-WAY	T8 @ 125	T8 @ 125	T8 @ 200
S4	140 MM	1-WAY	T8 @ 125	-	T8 @ 200
S5	140 MM	2-WAY	T8 @ 150	T8 @ 175	T8 @ 200
S6	140 MM	DOUBLE MAT	T8 @ 175	T8 @ 200	-
S7	140 MM	2-WAY	T8 @ 125	T8 @ 150	T8 @ 200
S8	140 MM	2-WAY	T8 @ 150	T8 @ 150	T8 @ 200
S9	140 MM	CANT	REFER SECTION A-A		
S10	140 MM	CANT	REFER SECTION B-B		

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Structural Engineer, GR-1,CMDA,
Reg No : SE / GR 1 / 19 / 07 / 177
73/35, Sundaraganapathy Sreet,
Ammapet, Salem-636003

General Notes:

1. All dimensions are in mm
2. Read the drawing along with Architectural drawings
3. Use M20 Concrete and Fe415 Steel for R.C.C work
4. The structure is designed for Zone II Area
5. In addition to the self weight of the structure, the following loads are considered in design:
   a. Roofing = 1 kN/m²
   b. Slab Load and Services = 5 kN/m²
   c. Terrace = 1.5 kN/m²
   d. Live Load = 3.0kN/m² & Life stair = 5kN/m²
6. Earthquake Load as per IS 1893:2002
7. Wind Load as per IS 875 (Part 3) 1987
8. Soil Bearing Capacity = 20 T/m²

NOTES:

1. COVER TO PILE CAP IN BOTTOM = 75 MM (3")
2. COVER TO PILE CAP ON OTHER SIDES = 50 MM (2")
3. COVER TO BEAM OR ALL SIDES = 25 MM (1")
4. COVER TO OVER WALL IN ALL SIDES = 20MM (1")
5. COVER TO SLAB ON ALL SIDES = 20 MM (1")
6. LAPPING LENGTH IS 50 TIMES DIA OF THE BAR

NOTE: ONLY AAC BLOCK USED FOR WALLS

REVISION DETAILS		
01	17/07/23	ISSUE FOR CONSTRUCTION
REF NO	DATE	DESCRIPTION

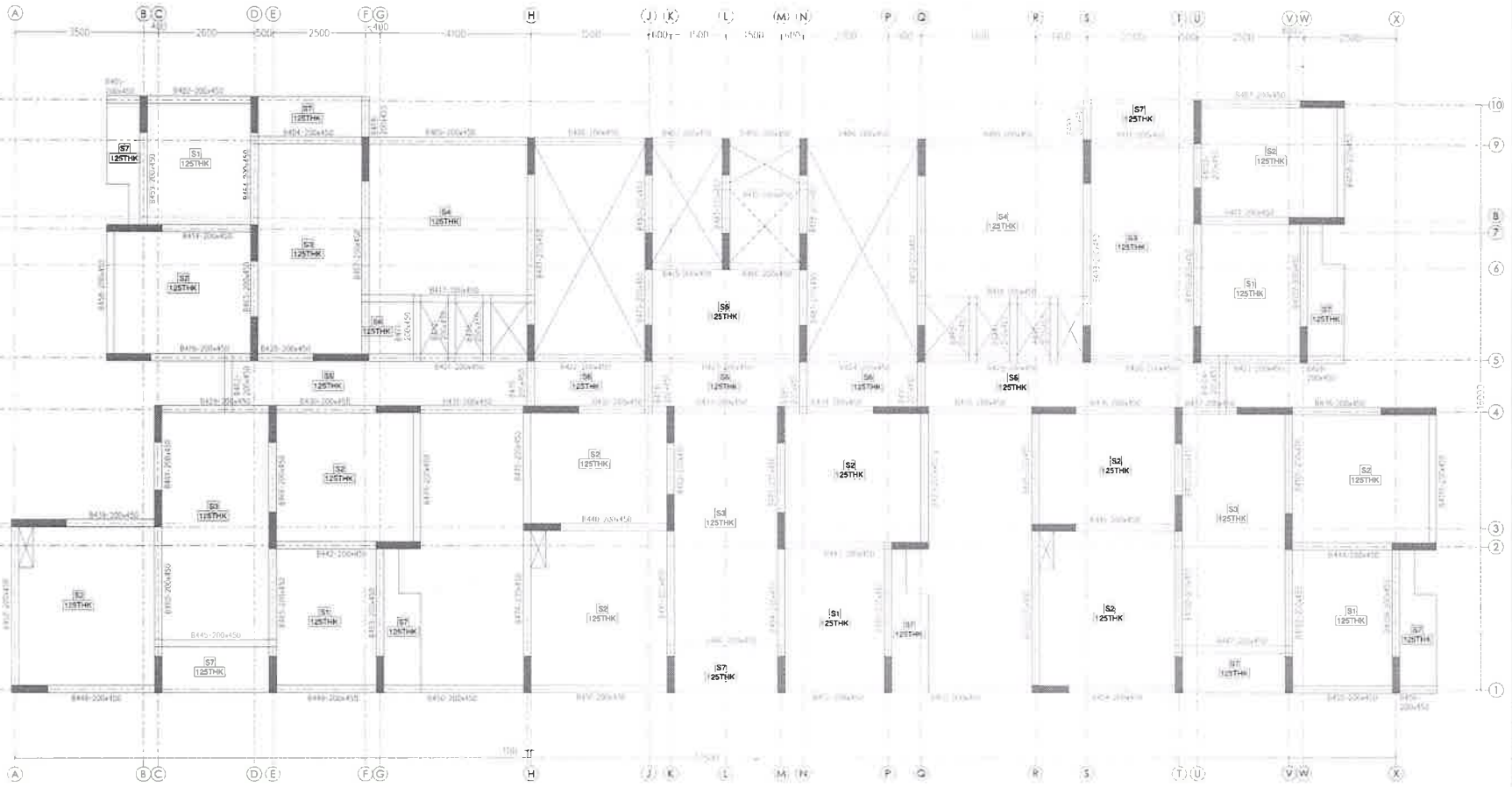
PROJECT: PROPOSED RESIDENTIAL APARTMENTS BUILDERS BLOCK

DRAWING TITLE: TYPICAL FLOOR DETAILS

DRAWN BY:	SIZE: A1	ISSUE DATE: 17/07/23
CHECKED BY:	SCALE: 1:75	REV: 01
	DRAWING NO: STD-15	

PRINCIPAL ARCHITECTS:

MRN ASSOCIATES



TERRACE FLOOR BEAM LAYOUT

General Notes:

1. All dimensions are in MM.
2. Read this drawing along with Architectural drawings
3. See MEP Services and Finish Slab for R.S.D. levels
4. The structure is designed for G+9 Storey
5. In addition to the self weight of the structure the following loads are considered in analysis
   a. Rooms - 2 kN/m²
   b. Stair Case and Balconies - 3 kN/m²
   c. Terrace - 1.5 kN/m²
6. Pile Capacity 600mm Dia 12M Long is 75Tonnes

NOTES :

1. COVER TO PILE CAP AT BOTTOM - 75 MM (3")
2. COVER TO PILE CAP ON OTHER SIDES - 50 MM (2")
3. COVER TO BEAM ON ALL SIDES - 30 MM (1½")
4. COVER TO SHEAR WALL ON ALL SIDES - 25MM (1")
5. COVER TO SLAB ON ALL SIDES - 20 MM (¾")
6. LAPPING LENGTH IS 50 TIMES DIA OF THE BAR

NOTE: ONLY AAC BLOCK USED FOR WALLS

REVISION DETAILS

REV NO	DATE	DESCRIPTION
R1	19.8.22	ISSUED FOR CONSTRUCTION

PROJECT: PROPOSED RESIDENTIAL APARTMENTS
BUILDERS BLOCK

DRAWING TITLE: TERRACE FLOOR BEAM LAYOUT

DRAWN BY: | SIZE: A1 | ISSUE DATE: 19.8.22
CHECKED: | SCALE: 1:100 | REV: R1

DRAWING NO: SD-16

PRINCIPAL ARCHITECTS:

MEN ASSOCIATES

A. VIJAYAKUMAR, M.E.,
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73/35, Sundaraganapathy Sreet,
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TERRACE FLOOR FLOOR BEAM SCHEDULE

BEAM NUMBER	SIZE		BOTTOM REINFORCEMENT			TOP REINFORCEMENT			SHEAR STIRRUPS		
	B	D	LEFT	MID-SPAN	RIGHT	LEFT	MID-SPAN	RIGHT	LEFT	MID-SPAN	RIGHT
B401	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B402	200	450	2-T20	2-T20	2-T20	2-T20	2 T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B403	300	450	2-T20	3-T20	2-T20	3-T20	2-T20	3-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B404	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B405	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B406	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B407	200	450	2-T20	3-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B408	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B409	200	450	2-T20	3-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B410	200	450	2-T20	3-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B411	200	450	2-T20	3-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B412	200	450	2-T20	2-T20	2-T20	2-T20	3-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B413	200	450	2-T20	3-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B414	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B415	200	450	2-T20	3-T20	2-T20	3-T20	3-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B416	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B417	200	450	2-T20	2-T20 +2-T20	2-T20	2-T20 +2-T20	2-T20	2-T20 +2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B418	200	450	2-T20	2-T20 +2-T20	2-T20	2-T20 +2-T20	2-T20	2-T20 +2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B419	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B420	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B421	200	450	2-T20	2-T20 +2-T20	2-T20	2-T20 +2-T20	2-T20	2-T20 +2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B422	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B423	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B424	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B425	200	450	2-T20	2-T20 +2-T20	2-T20	2-T20 +2-T20	2-T20	2-T20 +2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B426	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B427	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B428	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B429	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B430	200	450	2-T20	2-T20	2-T20 +3-T20	2-T20	2-T20	2-T20 +2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B431	200	450	2-T20 +2-T20	2-T20	2-T20 +2-T20	2-T20 +2-T20	2-T20	2-T20 +2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B432	200	450	2-T20 +2-T20	2-T20	2-T20 +2-T20	2-T20 +2-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B433	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B434	200	450	2-T20	2-T20	2-T20 +2-T20	2-T20	2-T20	2-T20 +2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B435	200	450	2-T20 +2-T20	2-T20 +2-T20	2-T20 +2-T20	2-T20 +2-T20	2-T20 +2-T20	2-T20 +2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B436	200	450	2-T20 +2-T20	2-T20	2 T20	2-T20 +2-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B437	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B438	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B439	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B440	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B441	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B442	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B443	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B444	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B445	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B446	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B447	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B448	200	450	2-T20	3-T20	2-T20	3-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B449	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B450	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B451	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B452	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B453	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B454	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B455	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B456	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B457	200	450	2-T20	2-T20 +2-T20	2-T20	2-T20 +2-T20	2-T20	2-T20 +2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B458	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B459	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B460	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B461	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B462	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B463	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B464	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B465	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B466	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B467	200	450	2-T20	2-T20 +2-T20	2-T20	2-T20 +2-T20	2-T20	2-T20 +2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B468	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B469	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B470	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B471	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B472	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B473	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B474	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B475	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B476	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B477	200	450	2-T20	2-T20 +2-T20	2-T20	2-T20 +2-T20	2-T20	2-T20 +2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B478	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B479	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B480	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B481	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B482	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B483	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B484	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B485	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B486	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B487	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
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B490	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B491	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B492	200	450	2-T20	2-T20 +2-T20	2-T20	2-T20 +2-T20	2-T20	2-T20 +2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C

TERRACE FLOOR FLOOR BEAM SCHEDULE

BEAM NUMBER	SIZE		BOTTOM REINFORCEMENT			TOP REINFORCEMENT			SHEAR STIRRUPS		
	B	D	LEFT	MID-SPAN	RIGHT	LEFT	MID-SPAN	RIGHT	LEFT	MID-SPAN	RIGHT
B493	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B494	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B495	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B496	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B497	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B498	200	450	2-T20	2-T20 +2-T20	2-T20	2-T20 +2-T20	2-T20	2-T20 +2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B499	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B4100	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B4101	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B4102	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B4103	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B4104	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B4105	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B4106	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B4107	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B4108	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B4109	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C
B4110	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	TM@ 100C/C	T8 @ 150C/C	TM@ 100C/C

TERRACE FLOOR SLAB SCHEDULE

SLAB NUMBERS	THK	TYPE	BOTTOM REINFORCEMENT		DIST.
			SHORT SPAN	LONG SPAN	
S1	125 MM	2-WAY	T8 @ 150	T8 @ 150	T8 @ 200
S2	125 MM	2-WAY	T10 @ 150	T10 @ 150	T8 @ 200
S3	125 MM	2-WAY	T10 @ 125	T8 @ 125	T8 @ 200
S4	125 MM	2-WAY	T10 @ 125	T10 @ 125	T8 @ 200
S5	125 MM	2-WAY	T8 @ 125	T8 @ 150	T8 @ 200
S6	125 MM	DOUBLE MAT	T8 @ 150	T8 @ 200	-
S7	125 MM	DOUBLE MAT	T10 @ 125	T8 @ 150	-

General Notes:

1. All dimensions are in MM
2. Read this drawing along with Architectural drawings
3. Use M20 Concrete and Fe500 Steel for R.C.C work.
4. The structure is designed for G+2 Storey.
5. In addition to the self weight of the structure, the following loads are considered in analysis
   a. Roofing = 1.5 kN/m²
   b. Wall Load (Including Plaster) = 12 kN/m
   c. Terrace = 1.5 kN/m²
   d. Floor Finish/Weight of the Live Load = 2 kN/m²

NOTES :

1. COVER TO PCC (OR AS SHOWN) = 25 MM (1")
2. COVER TO PCC (OR AS SHOWN) (SOIL) = 50 MM (2")
3. COVER TO BEAM OR ALL SIDES = 30 MM (1")
4. COVER TO SLAB BOTTOM = 25 MM (1")
5. COVER TO SLAB OR ALL SIDES = 20 MM (3/4")
6. LAPPING LENGTH IS TO BE TAKEN AS 50 TIMES DIA OF BAR MM

NOTE: ONLY AAC BLOCK USED FOR WALLS

A. VIJAYAKUMAR, M.E.,
Structural Engineer, GR-1,CMDA,
Reg No : SE / GR 1 / 19 / 07 / 177
73/35, Sundaraganapathy Sreet,
Ammapet, Salem-636003

REVISION DETAILS

REV NO	DATE	DESCRIPTION
01	17.08.23	ISSUED FOR CONSTRUCTION

PROJECT: PROPOSED RESIDENTIAL APARTMENTS BUILDERS BLOCK

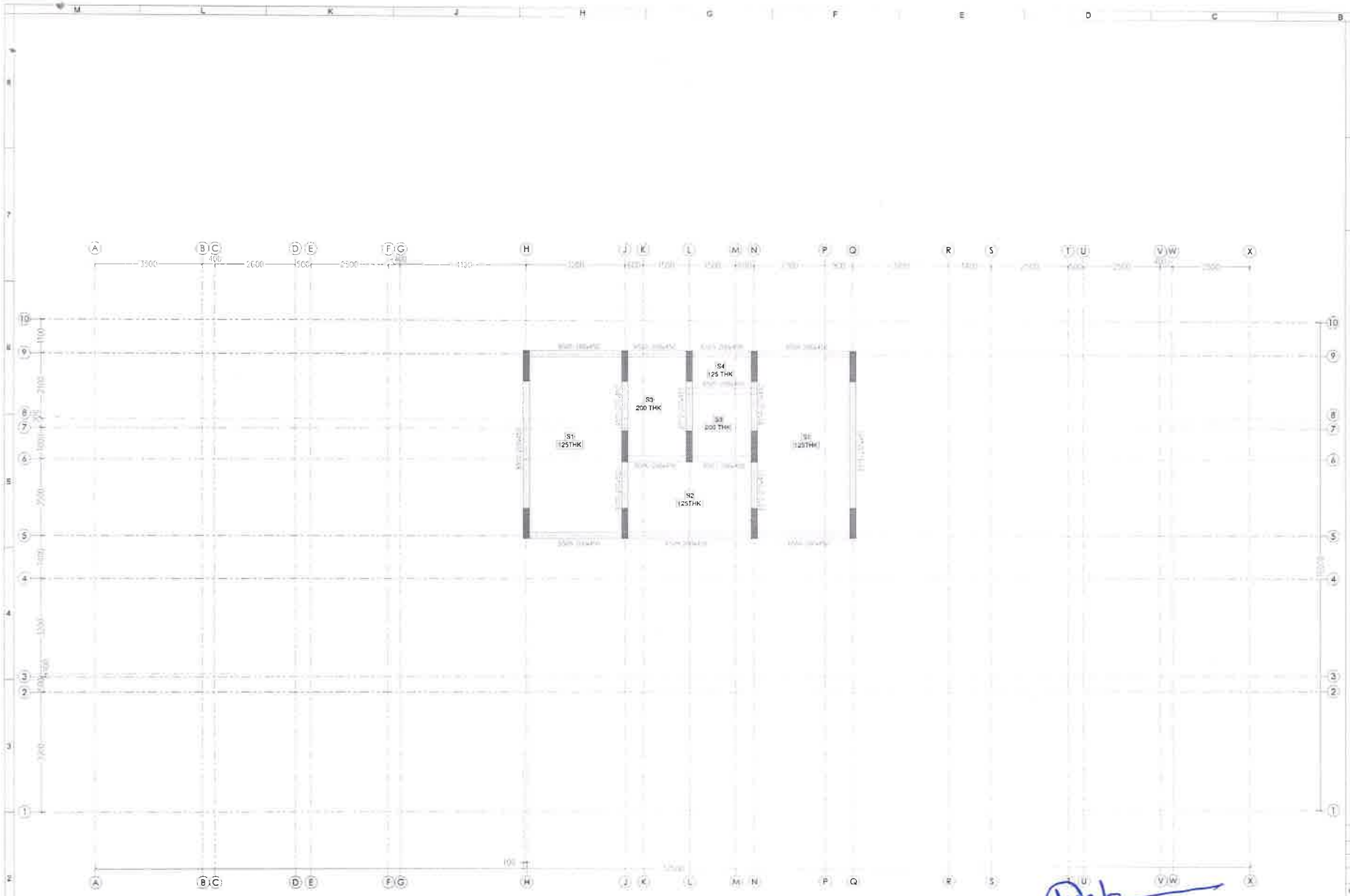
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DRAWN :KT | SIZE: A1 | ISSUE DATE: 17.08.23
CHECKED: AVK | SCALE: 1:100 | REV: 01

DRAWING NO: SD-17

PRINCIPAL ARCHITECTS:

MRN ASSOCIATES



HEADROOM BEAM LAYOUT

General Notes:

NOTES:

NOTE: ONLY AAC BLOCK USED FOR WALLS

REVISION DETAILS

REV NO	DATE	DESCRIPTION
1	01/07/21	ISSUED FOR CONSTRUCTION

PROJECT: PROPOSED RESIDENTIAL APARTMENTS BUILDING BLOCK

DRAWING TITLE: HEADROOM LAYOUT

DRAWN: | SIZE: A1 | ISSUE DATE:
CHECKED: | SCALE: 1:100 | REV.:

DRAWING NO:

PRINCIPAL ARCHITECTS:

MRN ASSOCIATES

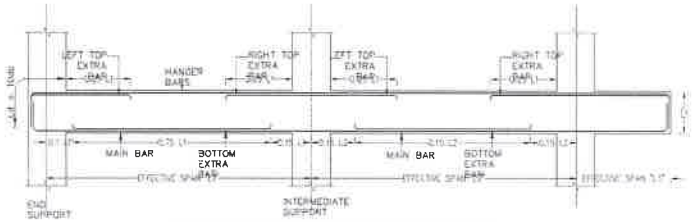
A. VIJAYAKUMAR, M.E.,
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HEADROOM BEAM SCHEDULE

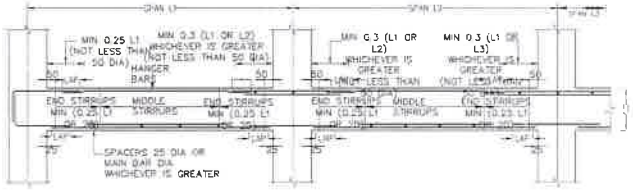
BEAM NUMBER	SIZE		BOTTOM REINFORCEMENT			TOP REINFORCEMENT			SHEAR STIRRUPS		
	B	D	LEFT	MID-SPAN	RIGHT	LEFT	MID-SPAN	RIGHT	LEFT	MID-SPAN	RIGHT
B501	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B502	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B503	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B504	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B505	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B506	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B507	200	450	2-T20	2-T20	3-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B508	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B509	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B510	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B511	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B512	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B513	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B514	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C
B515	200	450	2-T20	2-T20	2-T20	2-T20	2-T20	2-T20	T8@ 100C/C	T8 @ 150C/C	T8@ 100C/C

HEADROOM SLAB SCHEDULE

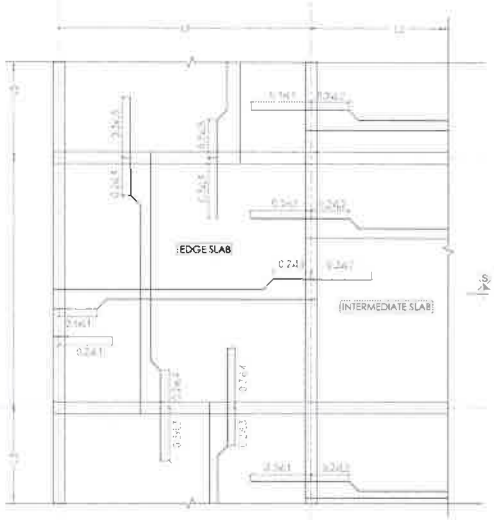
SLAB NUMBERS	THK	TYPE	BOTTOM REINFORCEMENT		DIST.
			SHORT SPAN	LONG SPAN	
S1	125 MM	2-WAY	T10 @ 125	T8 @ 125	T8 @ 200
S2	125 MM	2-WAY	T8 @ 125	T8 @ 150	T8 @ 200
S3	200 MM	DOUBLE MAT	T10 @ 125	T10 @ 150	-
S4	125 MM	DOUBLE MAT	T8 @ 150	T8 @ 175	-



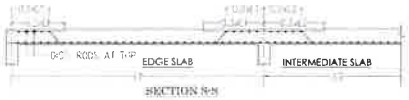
TYPICAL CURTAILMENT DETAILS FOR CONTINUOUS BEAMS



TYPICAL LAPPING DETAILS FOR CONTINUOUS BEAMS



TYPICAL SLAB DETAILS



SECTION S-S

General Notes:

1. All dimensions are in mm.
2. Refer the architectural drawings for architectural drawings.
3. Use M30 Concrete and Fe415 Steel for R.C.C work.
4. The structure is designed for Seismic Zone-III.
5. In addition to the self weight of the slab/beam, the following loads are considered in design.
   a. Live load = 2 kN/m²
   b. Floor Finish and Provision = 1 kN/m²
   c. Terrace = 1.5 kN/m²
   d. Wall Density 1000kg/m³ for 150 mm thick & 1700kg/m³ for 230 mm thick

NOTES :

1. CLEAR TO PCC (SAY AS) BOTTOM - 25 MM (1")
2. CLEAR TO PCC (SAY AS) OTHER FACES - 15 MM (1/2")
3. COVER TO BEAM (IN ALL FACES) - 20 MM (3/4")
4. COVER TO SHEAR WALL (IN ALL FACES) - 20MM (3/4")
5. COVER TO SLAB (IN ALL FACES) - 20 MM (3/4")
6. LAPPING LENGTH IS 50 TIMES DIA OF BAR MM

NOTE: ONLY AAC BLOCK USED FOR WALLS

REVISION DETAILS

REV NO	DATE	DESCRIPTION
01	17/07/23	ISSUED FOR CONSTRUCTION

PROJECT: PROPOSED RESIDENTIAL APARTMENTS BUILDERS BLOCK

DRAWING TITLE: HEADROOM DETAILS

DRAWN BY: | SIZE: A1 | ISSUE DATE: 17/07/23
CHECKED BY: | SCALE: N.T.S | REV. NO: 01
DRAWING NO: SD-01

PRINCIPAL ARCHITECTS:

M.E.N ASSOCIATES

A. VIJAYAKUMAR, M.E.,
Structural Engineer, GR-1,CMDA,
Reg No : SE / GR 1 / 19 / 07 / 177
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