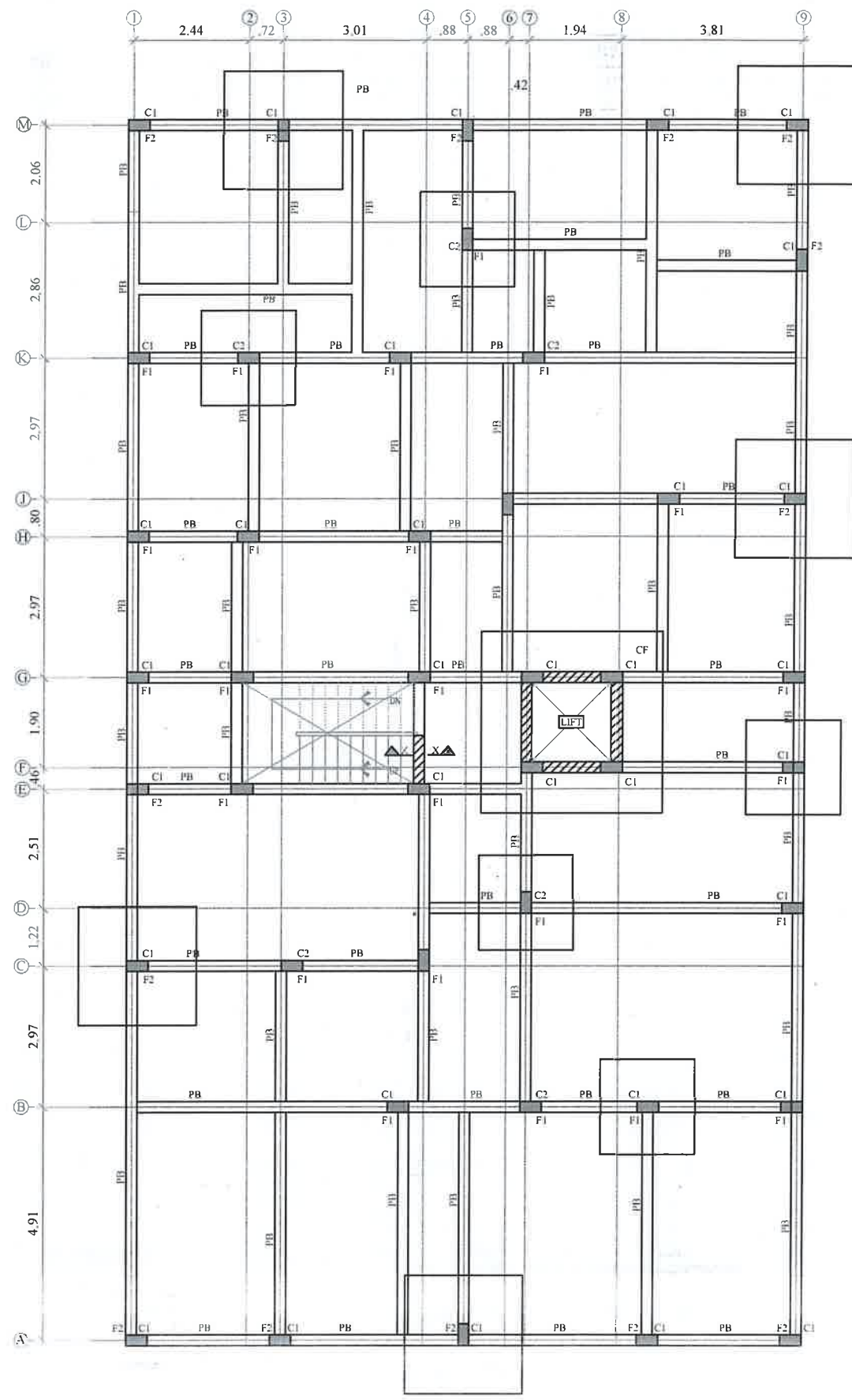
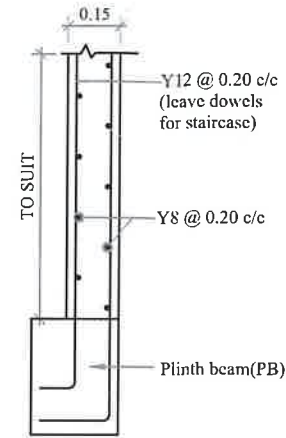




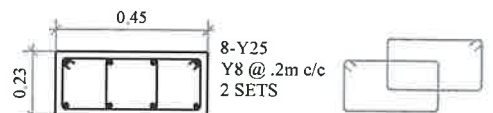
LAYOUT OF FOUNDATION, PLINTH BEAM AND COLUMN (BLOCK-1)

(ALL GRID DIMENSIONS SHALL BE CHECKED WITH ARCHITECTURAL DRG.)

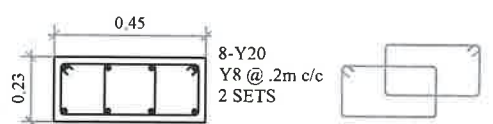
FOOTING SCHEDULE					
FOOTING MKD	FOOTING SIZE	EXCAVATION SIZE	D	REINFORCEMENT AT BOTTOM (BW)	REINFORCEMENT AT TOP (BW)
F1	2.00 x 2.00	2.15 x 2.15	0.45	Y12 @ 0.1 C/C	----
F2	3.00 x 3.00	3.15 x 3.15	0.525	Y16 @ 0.15 C/C	----
CF	4.00 x 4.00	4.15 x 4.15	0.60	Y16 @ 0.1 C/C	Y12 @ 0.1 C/C



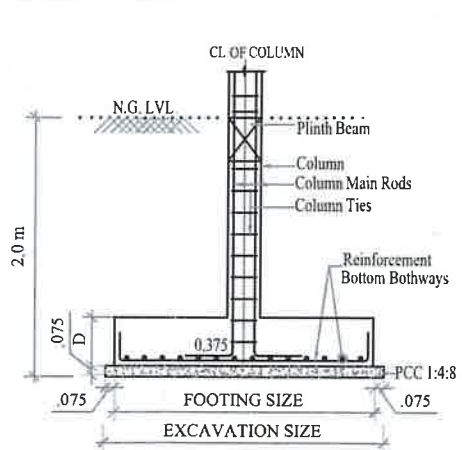
SECTION X-X



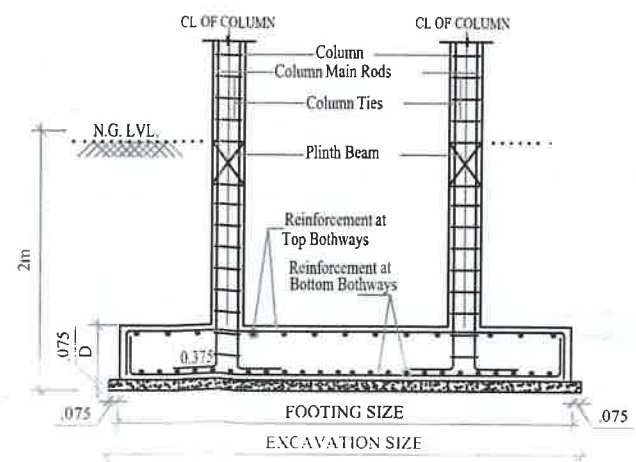
DETAIL OF COLUMN-C1



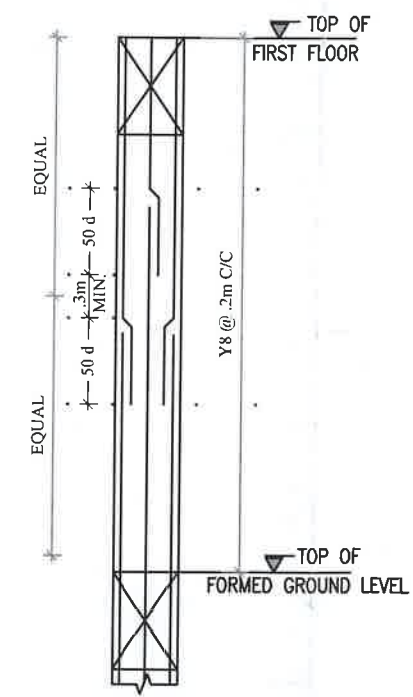
DETAIL OF COLUMN-C2



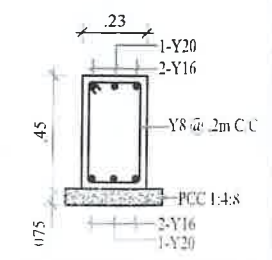
DETAIL OF FOOTING - F1 & F2



DETAIL OF FOOTING - CF



TYPICAL DETAIL OF COLUMN FOR LAPPING OF COLUMN BARS



C.S OF PLINTH BEAM-PB

LEGENDS:	
LVL	: LEVEL
T&B	: TOP & BOTTOM
B/W	: BOTHWAYS
----	: TOP BAR
----	: BOTTOM BAR

- GENERAL NOTES :**
- Grade of Concrete and steel : M-25 & Fe-550-D.
 - Mix of Concrete shall be designed as per IS 456 - 2000.
 - Cement shall be generally be of 53 Grade - unless otherwise specified.
 - Clear cover to reinforcement shall be as follows:
Slab - 20 mm (3/4")
Beam - 25 mm (1")
Column - 40 mm (1 1/2")
 - Lapping shall be 50 times diameter of smaller bar
 - Lapping shall be staggered.
 - For columns, if lapping is required, it shall be provided at midway between two floors.
 - For beams, lapping of bars shall be avoided at bottom at center of beam (Le)at span.
 - For beams, lapping of bars shall be avoided at top of beam at Column - Beam joint (Le) at support.
 - All dimensions are in "metres"
 - SBC is considered as 200 kN/sq.m at 2.0 m depth as per Soil report.

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REV	DESCRIPTION	DATE	BY	CHKD.	DATE
0	RELEASED FOR CONSTRUCTION	15.10.24	RAHMAN	PRIYA	
1	DESCRIPTION				

NOTES:

- This drawing should be read along with Architectural drawing.
- Foundation has been designed for STILL + FIVE FLOORS ONLY

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E-MAIL : vrpconsultants@gmail.com
Website : www.vrpconsultants.com

Client:
HANSA ESTATES,
CHENNAI

Project Title:
PROPOSED RESIDENTIAL BUILDING, BLOCK-1
AT THIRUVOTTIYUR, CHENNAI.

Drawing Title:
LAYOUT & DETAILS OF FOUNDATION, COLUMN
AND PLINTH BEAM

DATE : 15.10.2024
DESIGN : PRIYA **DWG NO :** 01
FILE: VR-4//VRPC2022/800 Series/Diamond - Gems Park

LEGENDS:

LVL : LEVEL
T&B : TOP & BOTTOM
B/W : BOTHWAYS
---- : TOP BAR
---- : BOTTOM BAR

GENERAL NOTES :

- Grade of Concrete and steel : M-25 & Fe-550-D.
- Mix of Concrete shall be designed as per IS 456 - 2000.
- Cement shall be generally be of 53 Grade - unless otherwise specified.
- Clear cover to reinforcement shall be as follows:
Slab - 20 mm (3/4")
Beam - 25 mm (1")
Column - 40 mm (1 1/2")
- Lapping shall be 50 times diameter of smaller bar
- Lapping shall be staggered.
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- For beams, lapping of bars shall be avoided at bottom at center of beam (Le) at span.
- For beams, lapping of bars shall be avoided at top of beam at Column - Beam joint (Le) at support.
- All dimensions are in "metres"
- SBC is considered as 200 kN/sq.m at 2.0 m depth as per Soil report.

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REV	DESCRIPTION	DATE
0	RELEASED FOR CONSTRUCTION	15.10.24

- NOTES:
- This drawing should be read along with Architectural drawing.
 - Foundation has been designed for SILT-FIVE FLOORS ONLY

Structural Consultant:
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Client:
HANSA ESTATES,
CHENNAI

Project Title:
PROPOSED RESIDENTIAL BUILDING, BLOCK-2
AT THIRUVOTTIYUR, CHENNAI.

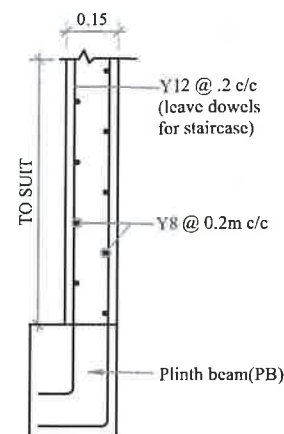
Drawing Title:
LAYOUT & DETAILS OF FOUNDATION, COLUMN
AND PLINTH BEAM

DATE : 15.10.24

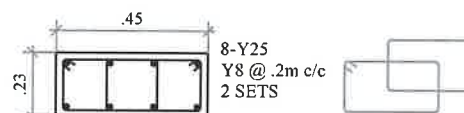
FILE: VR-4//VRPC2022/600 Series/Diamond - Gems Park

FOOTING SCHEDULE

FOOTING MKD	FOOTING SIZE	EXCAVATION SIZE	D	REINFORCEMENT AT BOTTOM (BW)	REINFORCEMENT AT TOP (BW)
F1	2.00 x 2.00	2.15 x 2.15	.450	Y16 @ 0.15 C/C	----
F2	3.00 x 3.00	3.15 x 3.15	.525	Y12 @ 0.1 C/C	----
CF	4.00 x 3.00	4.15 x 3.15	.600	Y16 @ 0.1 C/C	Y12 @ 0.1 C/C



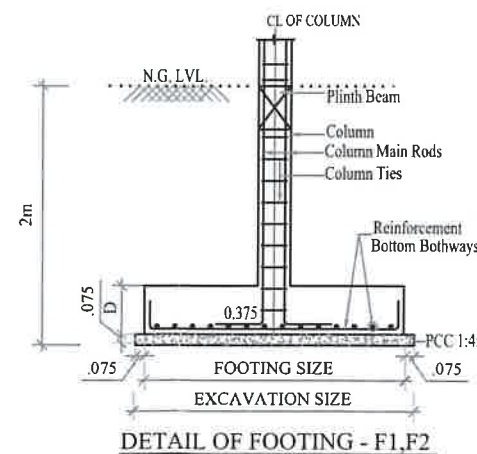
SECTION Y-Y



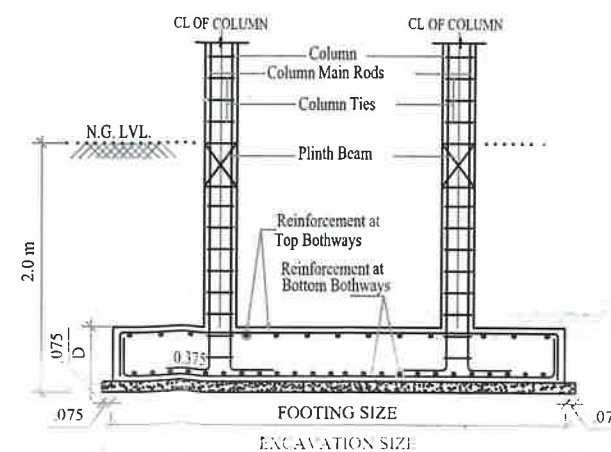
DETAIL OF COLUMN-C1



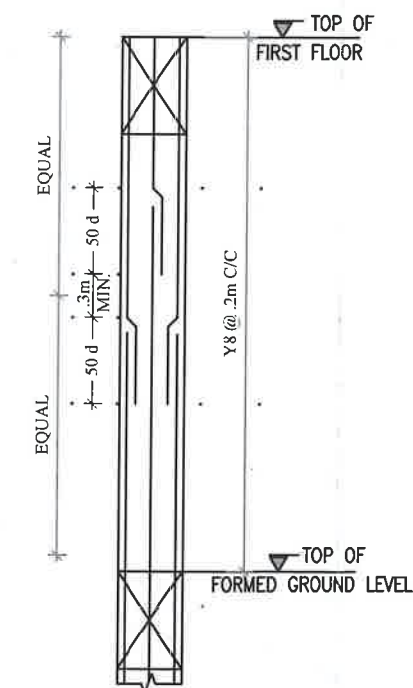
DETAIL OF COLUMN-C2



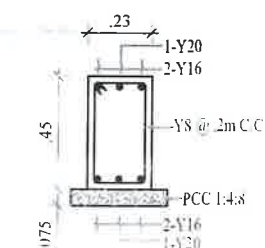
DETAIL OF FOOTING - F1, F2



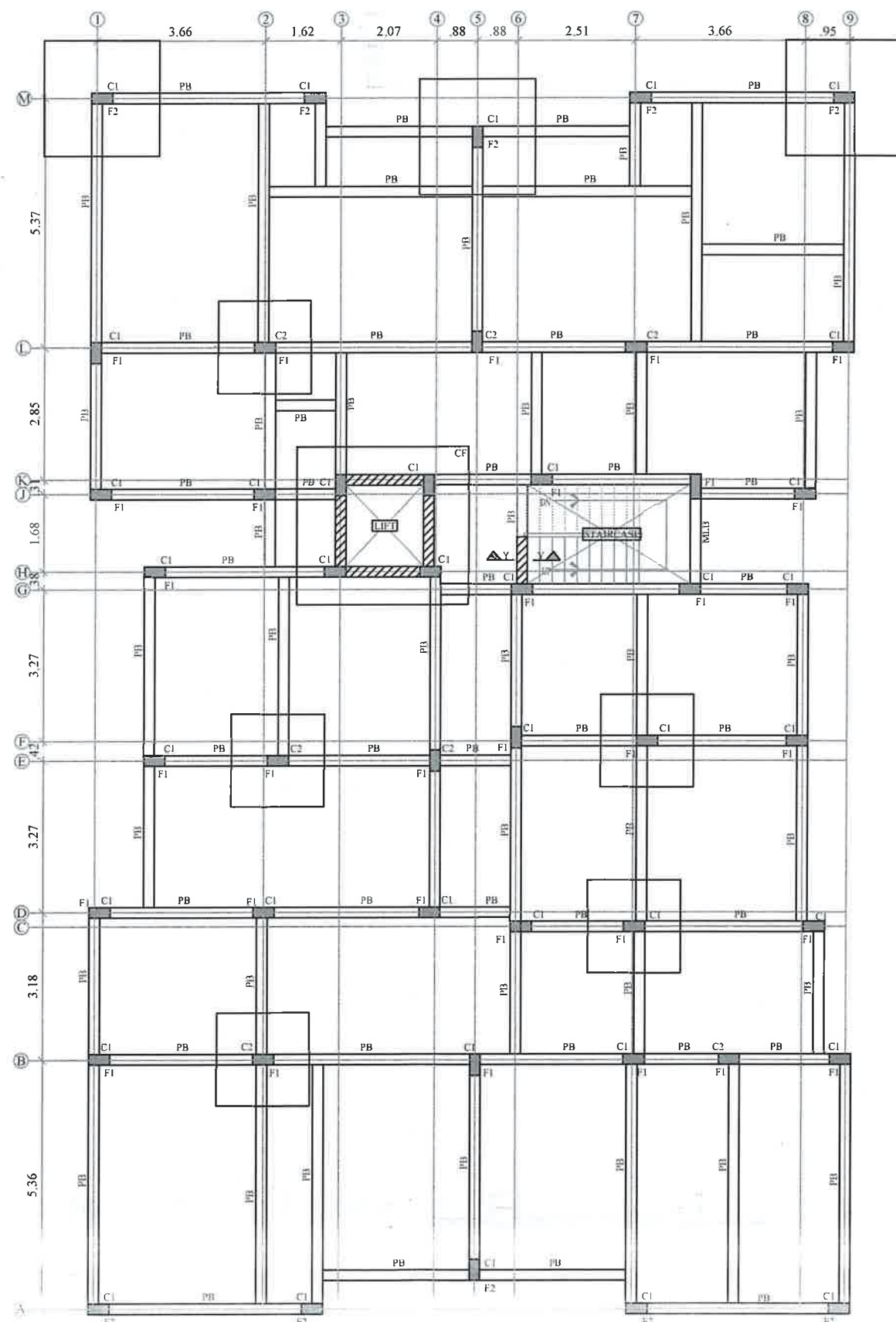
DETAIL OF FOOTING - CF



TYPICAL DETAIL OF COLUMN FOR LAPPING OF COLUMN BARS

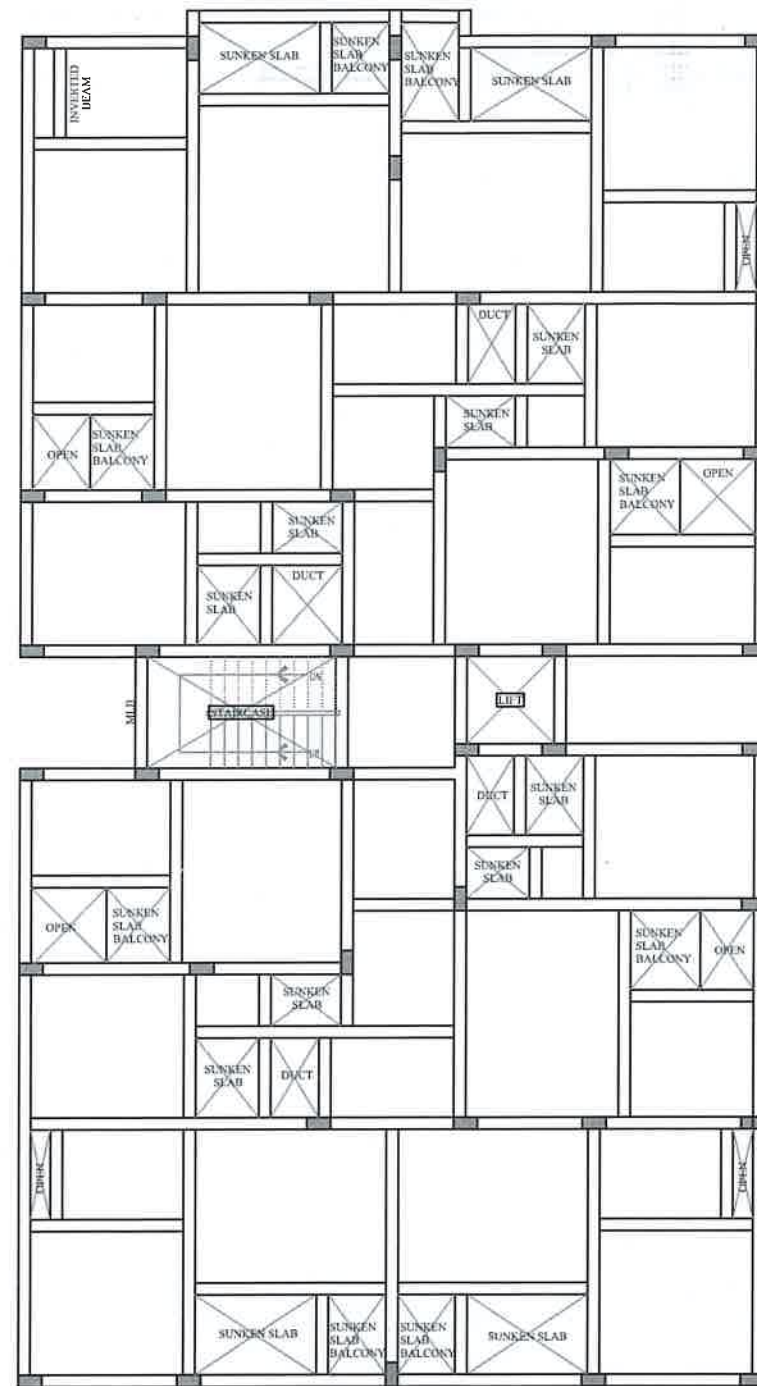


C.S OF PLINTH BEAM-PB



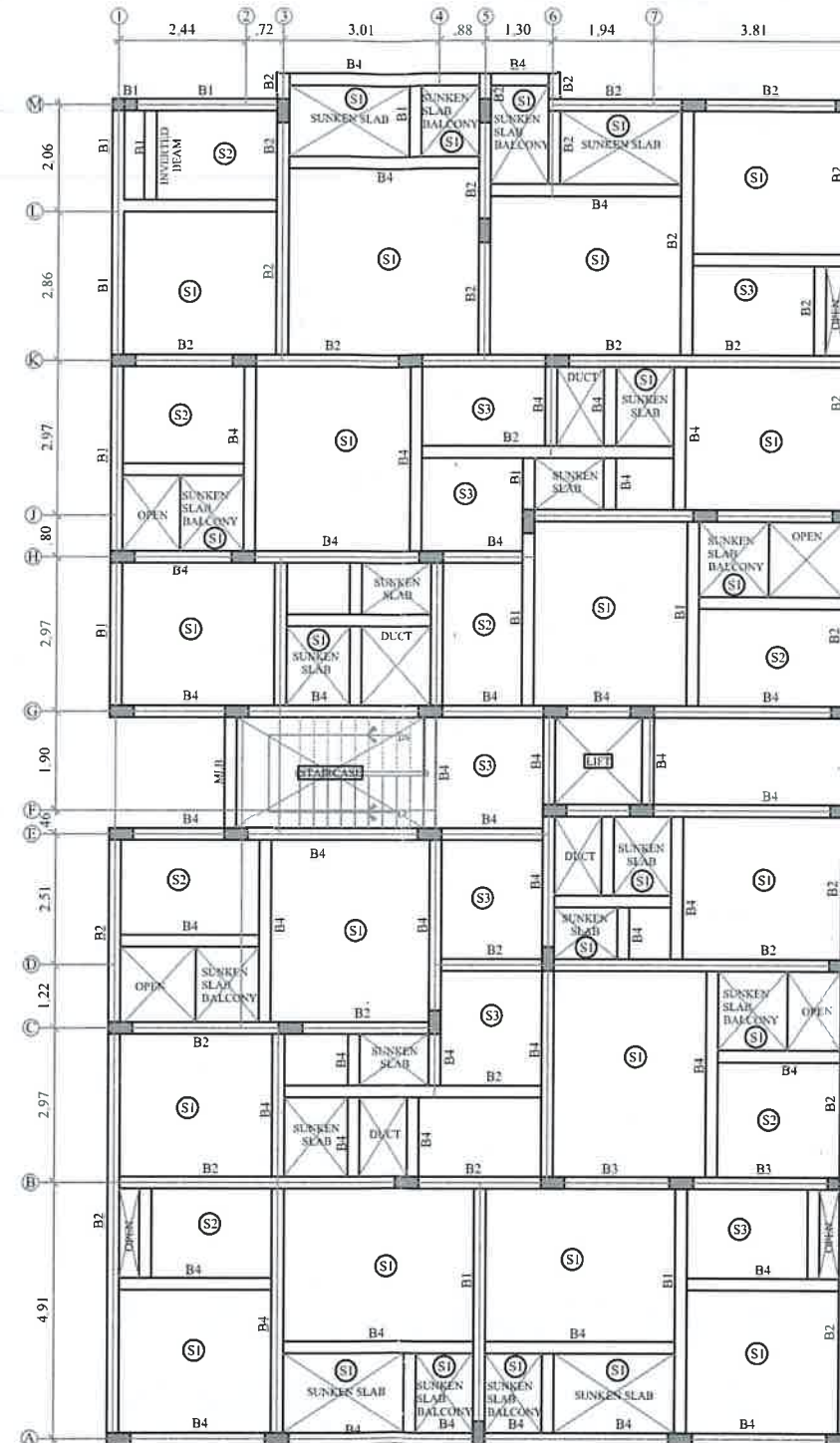
LAYOUT OF FOUNDATION, PLINTH BEAM AND COLUMN (STILT, I, II & III) BLOCK-2

ALL GRID DIMENSIONS SHALL BE CHECKED WITH ARCHITECTURAL DRAWING



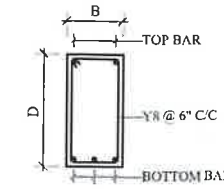
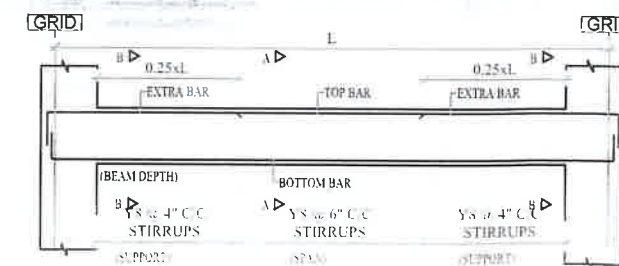
**LAYOUT OF ROOF BEAM AND SLAB OVER TYP
FLOORS (STILT, I, II & III) BLOCK-1**
(ALL GRID DIMENSIONS SHALL BE CHECKED WITH ARCHITECTURAL DRG.)

BEAM REINFORCEMENT DETAIL				
BEAM MKD	BEAM SIZE (B X D)	TOP BAR		BOTTOM BAR
		AT SUPPORT	AT SPAN	
B1	230 X 525	2-Y20+1-Y16	2-Y20	2-Y20+1-Y16
B2	230 X 600	2-Y20+1-Y25	2-Y20	2-Y20+1-Y25
B3	230 X 525	2-Y20+1-Y20	2-Y20	2-Y20+1-Y20
B4	230 X 450	2-Y16+1-Y16	2-Y16	2-Y16+1-Y20

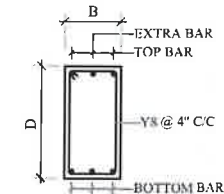


**LAYOUT OF ROOF BEAM AND SLAB OVER TYP
FLOORS (STILT, I, II & III) BLOCK-1**
(ALL GRID DIMENSIONS SHALL BE CHECKED WITH ARCHITECTURAL DRG.)

SLAB REINFORCEMENT DETAIL			
BEAM MKD	SLAB THK	SHORTER SPAN	LONGER SPAN
S1	15	Y8 @ .15 C/C	Y8 @ .15 C/C
S2	15	Y8 @ .2 C/C	Y8 @ .15 C/C
S3	15	Y8 @ .2" C/C	Y8 @ .2 C/C



**SECTION A-A
(AT SPAN)**



**SECTION B-B
(AT SUPPORT)**

LEGENDS:

LVL : LEVEL
T&B : TOP & BOTTOM
B/W : BOTHWAYS
--- : TOP BAR
--- : BOTTOM BAR

GENERAL NOTES :

- Grade of Concrete and steel : M-25 & Fe-550-D.
- Mix of Concrete shall be designed as per IS 456 - 2000.
- Cement shall be generally be of 53 Grade - unless otherwise specified.
- Clear cover to reinforcement shall be as follows:
Slab - 20 mm (3/4")
Beam - 25 mm (1")
Column - 40 mm (1 1/2")
- Lapping shall be 50 times diameter of smaller bar
- Lapping shall be staggered.
- For columns, if lapping is required, it shall be provided at midway between two floors.
- For beams, lapping of bars shall be avoided at bottom at center of beam (i.e) at span.
- For beams, lapping of bars shall be avoided at top of beam at Column - Beam joint (i.e) at support.
- For slab, wherever bars are not shown, provide Y10 @ 0.25 C/C (Distribution Steel)
- For slab, chair rods shall be provided to keep top reinforcement in place
- All dimensions are in "metres"

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REV	DESCRIPTION	DATE
0	RELEASED FOR CONSTRUCTION	15.10.24

NOTES:
This drawing should be read along with Architectural drawing.

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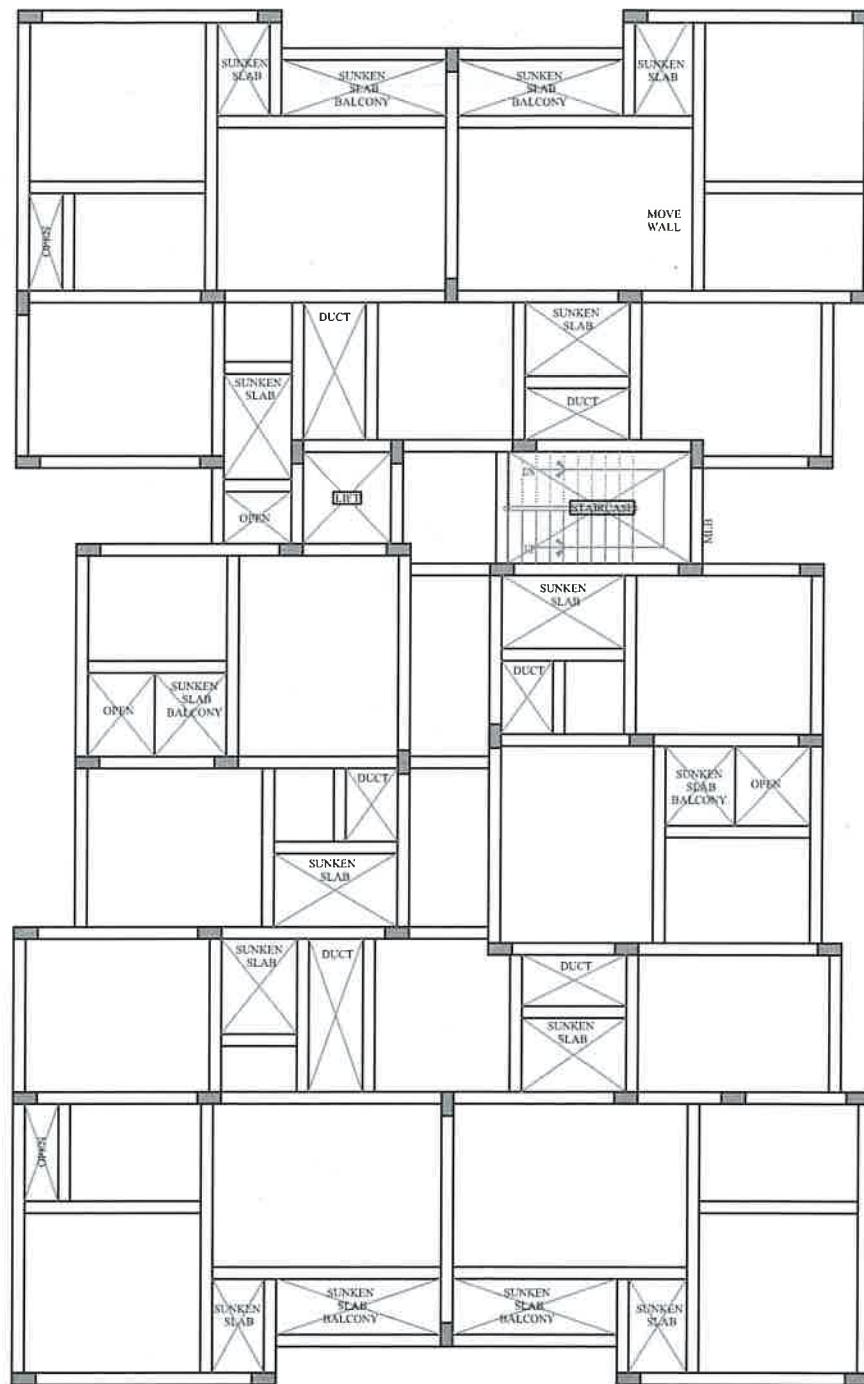
Client:
HANSA ESTATES,
CHENNAI

Project Title:
PROPOSED RESIDENTIAL BUILDING, BLOCK-1
AT THIRUVOTTIYUR, CHENNAI

Drawing Title:
LAYOUT & DETAILS OF ROOF SLAB & BEAMS
OVER TYPICAL FLOOR

DATE : 15.10.2024

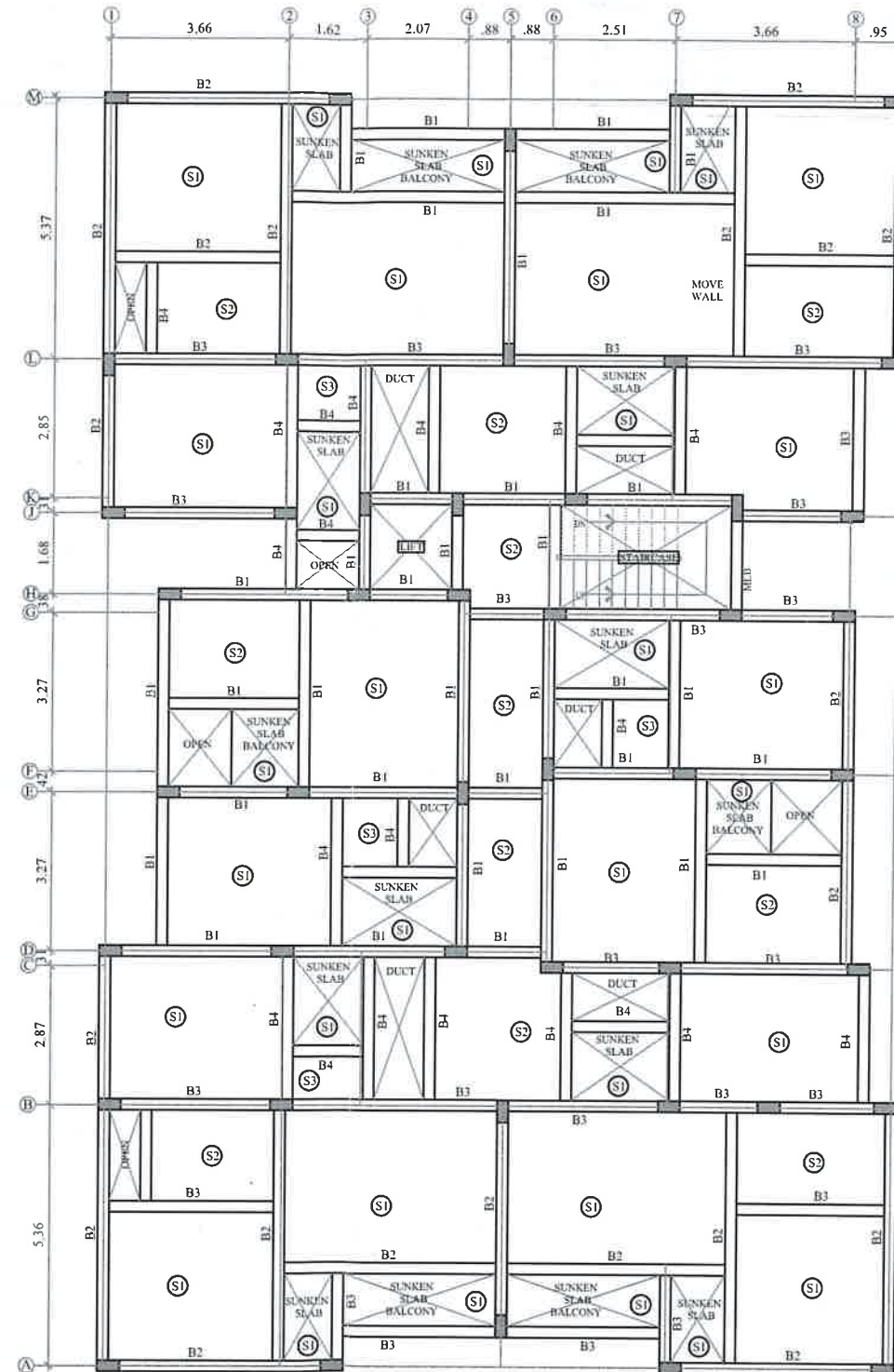
FILE: VR-4//VRPC2022/600 Series/Diamond - Gems Park



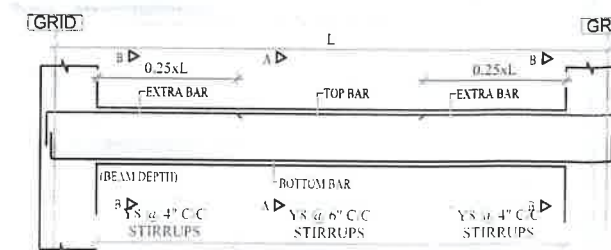
LAYOUT OF ROOF BEAM AND SLAB OVER TYP FLOORS (STILT, I, II & III) BLOCK-2
(ALL GRID DIMENSIONS SHALL BE CHECKED WITH ARCHITECTURAL DRG.)

BEAM REINFORCEMENT DETAIL				
BEAM MKD	BEAM SIZE (B X D)	TOP BAR		BOTTOM BAR
		AT SUPPORT	AT SPAN	
B1	230 X 525	2-Y20+1-Y16	2-Y20	2-Y20+1-Y16
B2	230 X 600	2-Y20+1-Y25	2-Y20	2-Y20+1-Y25
B3	230 X 525	2-Y20+1-Y20	2-Y20	2-Y20+1-Y20
B4	230 X 450	2-Y16+1-Y16	2-Y16	2-Y16+1-Y20

SLAB REINFORCEMENT DETAIL			
BEAM MKD	SLAB THK	SHORTER SPAN	LONGER SPAN
S1	15	Y8 @ .15 C/C	Y8 @ .15 C/C
S2	15	Y8 @ .2 C/C	Y8 @ .15 C/C
S3	15	Y8 @ .2" C/C	Y8 @ .2 C/C



LAYOUT OF ROOF BEAM AND SLAB OVER TYP FLOORS (STILT, I, II & III) BLOCK-2
(ALL GRID DIMENSIONS SHALL BE CHECKED WITH ARCHITECTURAL DRG.)



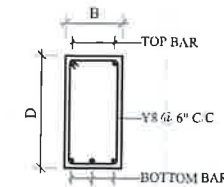
L.S OF TYPICAL BEAM

LEGENDS:

LVL : LEVEL
T&B : TOP & BOTTOM
B/W : BOTHWAYS
--- : TOP BAR
--- : BOTTOM BAR

GENERAL NOTES :

- Grade of Concrete and steel : M-25 & Fe-550-D.
- Mix of Concrete shall be designed as per IS 456 - 2000.
- Cement shall be generally be of 53 Grade - unless otherwise specified.
- Clear cover to reinforcement shall be as follows:
Slab - 20 mm (3/4")
Beam - 25 mm (1")
Column - 40 mm (1 1/2")
- Lapping shall be 50 times diameter of smaller bar
- Lapping shall be staggered.
- For columns, if lapping is required, it shall be provided at midway between two floors.
- For beams, lapping of bars shall be avoided at bottom at center of beam (L_e) at span.
- For beams, lapping of bars shall be avoided at top of beam at Column - Beam joint (L_e) at support.
- For slab, wherever bars are not shown, provide Y10 @ 0.25 C/C (Distribution Steel)
- For slab, chair rods shall be provided to keep top reinforcement in place
- All dimensions are in "metres"



SECTION A-A (AT SPAN)



SECTION B-B (AT SUPPORT)

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REV	DESCRIPTION	DATE
-----	-------------	------

NOTES:
This drawing should be read along with Architectural drawing.

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Client:
HANSA ESTATES,
CHENNAI

Project Title:
PROPOSED RESIDENTIAL BUILDING, BLOCK-2
AT THIRUVOTTIYUR, CHENNAI

Drawing Title:
LAYOUT & DETAILS OF ROOF SLAB & BEAMS
OVER TYPICAL FLOOR

DATE : 15.10.2024

FILE:VR-4/VRPC2022/600 Series/Diamond - Gems Park