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RE REGULATORY RECORD

# RERA Document

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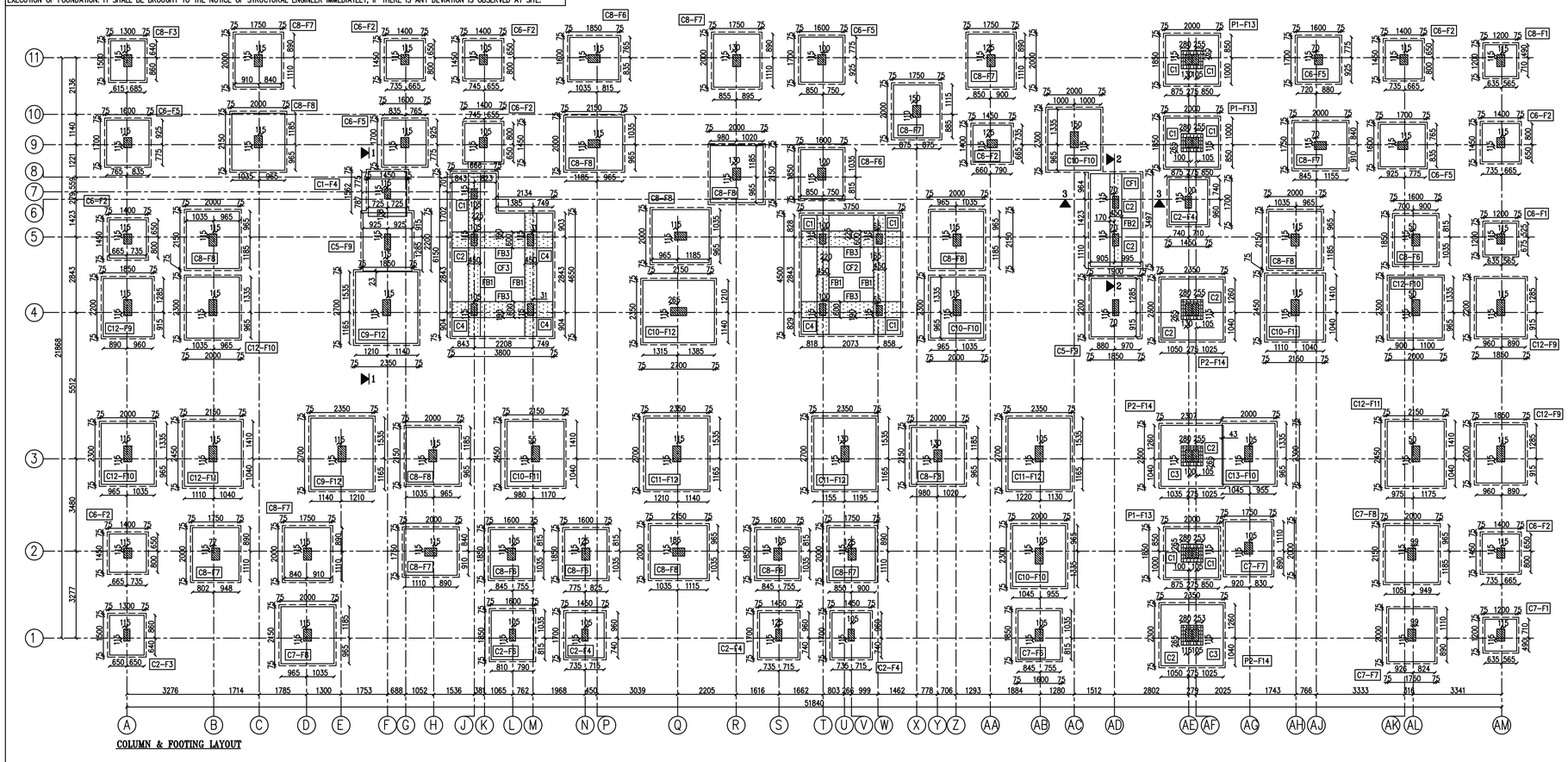
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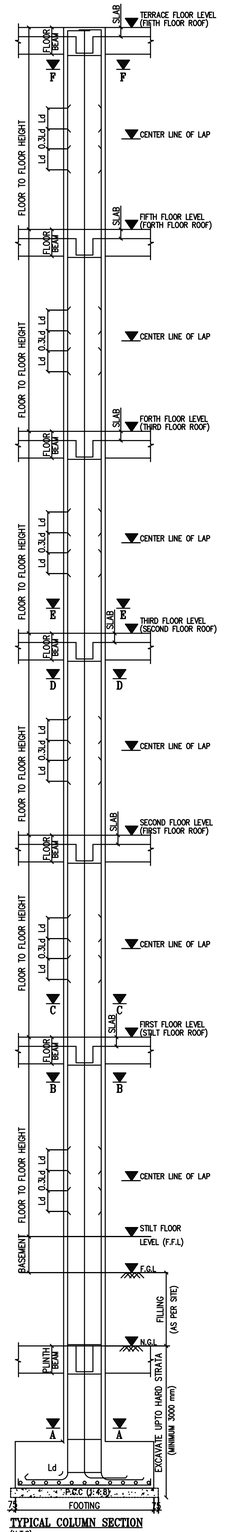
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SBC IS CONSIDERED BASED ON SOIL INVESTIGATION REPORT (REF.: Time /18/ Soil Test / February 2024) TIME INSTITUTE FOR MATERIALS TESTING, TIRUCHIRAPPALLI. DATED:09/02/24. IT IS THE RESPONSIBILITY OF THE CONTRACTOR/SITE ENGINEER/OWNER OF CONSTRUCTED BUILDING TO ENSURE THE SAME AT SITE BEFORE EXECUTION OF FOUNDATION. IT SHALL BE BROUGHT TO THE NOTICE OF STRUCTURAL ENGINEER IMMEDIATELY, IF THERE IS ANY DEVIATION IS OBSERVED AT SITE.




COLUMN & FOOTING LAYOUT




TYPICAL COLUMN SECTION
(N.T.S)

## GENERAL NOTES

1. THIS DRAWING SHOULD BE READ ALONG WITH ARCHITECTURAL DRAWINGS.
2. ALL DIMENSIONS ARE IN MILLIMETERS.
3. FOR COLUMN THE GRADE OF CONCRETE SHALL BE OF M30(DESIGN MIX) AND ALL OTHER STRUCTURAL ELEMENTS SHALL BE OF M25(1:1:2) GRADE CONFORMING TO IS: 456.
4. ALL REINFORCEMENT(Y) SHALL BE H.Y.S.D. BARS OF GRADE Fe 550 CONFORMING TO IS:1786.
5. THE CLEAR COVER FOR REINFORCEMENT SHALL BE 50mm FOR FOOTINGS & 40mm FOR COLUMNS AND 25mm FOR BEAMS.
6. S.B.C IS CONSIDERED AS 300kN/Sq.m @ 3000mm BELOW N.G.L & DESIGNED FOR S+5 FLOORS ONLY.
7. LAP LENGTH (Ld) SHALL BE 50ΦD FOR ALL BARS.
8. NOT MORE THAN 50% OF REINFORCEMENT SHALL BE LAPPED AT ANY PARTICULAR JUNCTION.
9. THIS DRAWING IS NOT TO BE SCALED ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED.
10. THE SITE IN-CHARGE SHALL CHECK AND VERIFY ALL DIMENSIONS ON SITE BEFORE COMMENCEMENT OF WORKS AND ANY DISCREPANCIES SHALL BE REPORTED TO THE STRUCTURAL ENGINEER BEFORE EXECUTION.
11. SUITABLE PRECAUTION SHOULD BE TAKEN CARE IN SITE TO AVOID EARTH SLIDING DURING EARTH WORK EXCAVATION AND EXECUTION OF FOOTING.
12. DURING EXCAVATION, IF ANY LOOSE POCKETS OF THE SOIL ENCOUNTERED,IT SHALL BE REMOVED & BACKFILLED WITH A LEVELLING COURSE OF CONCRETE THEN THE CONSTRUCTION OF FOUNDATION CAN BE CARRIED OUT.
13. DESIGNED ONLY FOR STATIC LOAD (DL + LL) LOAD CASES.

## LEGENDS

- FULL HEIGHT COLUMN
- PEDESTAL COLUMN
- FOOTING BEAM

## ABBREVIATIONS

| | | |
|---|---|---|
| N.G.L | – | NATURAL GROUND LEVEL |
| F.G.L | – | FORMED GROUND LEVEL |
| F.F.L | – | FINISHED FLOOR LEVEL |
| N.T.S | – | NOT TO SCALE |
| Ld | – | DEVELOPMENT LENGTH |
| LVL | – | LEVEL |
| CF | – | COMBINED FOOTING |
| FB | – | FOOTING BEAM |

## FOOTING DETAILS

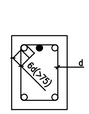
| S No | Footing No | Footing Size | Excavation Pit Size | Footing Depth(D) | Footing Rft., Detail | |
|---|---|---|---|---|---|---|
| | | | | | Top Rft., | Bottom Rft., |
| 1 | F1 | 1200 x 1200 | 1350 x 1350 | 380 | –N.A– | Y10 @ 150c/c Both Ways |
| 2 | F2 | 1450 x 1400 | 1600 x 1550 | 380 | –N.A– | Y10 @ 150c/c Both Ways |
| 3 | F3 | 1500 x 1300 | 1650 x 1450 | 380 | –N.A– | Y10 @ 100c/c Both Ways |
| 4 | F4 | 1700 x 1450 | 1850 x 1600 | 450 | –N.A– | Y10 @ 125c/c Both Ways |
| 5 | F5 | 1700 x 1600 | 1850 x 1750 | 450 | –N.A– | Y10 @ 125c/c Both Ways |
| 6 | F6 | 1850 x 1600 | 2000 x 1750 | 450 | –N.A– | Y10 @ 100c/c Both Ways |
| 7 | F7 | 2000 x 1750 | 2150 x 1900 | 530 | –N.A– | Y10 @ 100c/c Both Ways |
| 8 | F8 | 2150 x 2000 | 2300 x 2150 | 600 | –N.A– | Y10 @ 100c/c Both Ways |
| 9 | F9 | 2200 x 1850 | 2350 x 2000 | 600 | –N.A– | Y10 @ 100c/c Both Ways |
| 10 | F10 | 2300 x 2000 | 2450 x 2150 | 600 | –N.A– | Y10 @ 100c/c Both Ways |
| 11 | F11 | 2450 x 2150 | 2600 x 2300 | 680 | –N.A– | Y12 @ 125c/c Both Ways |
| 12 | F12 | 2700 x 2350 | 2850 x 2500 | 680 | –N.A– | Y12 @ 125c/c Both Ways |
| 13 | F13 | 2000 x 1850 | 2150 x 2000 | 530 | –N.A– | Y10 @ 100c/c Both Ways |
| 14 | F14 | 2350 x 2300 | 2500 x 2450 | 600 | –N.A– | Y10 @ 100c/c Both Ways |
| 15 | CF1 | REFER LAYOUT | | 600 | –N.A– | Y10 @ 100c/c Both Ways |
| 16 | CF2 | REFER LAYOUT | | 600 | Y10 @ 100c/c Both Ways | Y10 @ 100c/c Both Ways |
| 17 | CF3 | REFER LAYOUT | | 600 | Y10 @ 100c/c Both Ways | Y10 @ 100c/c Both Ways |

## FOOTING BEAM DETAILS

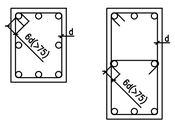
| S No | Beam No | Beam Size | Beam Reinforcement Details |
|---|---|---|---|
| 1 | FB1 | 450x600 | 8 – Y20<br>Y10 @ 150 c/c (4–Legged)<br>8 – Y20 |
| 2 | FB2 | 450x750 | 8 – Y16<br>Y10 @ 125 c/c (4–Legged)<br>2 – Y12 (SIDES)●<br>8 – Y20 |
| 3 | FB3 | 600x600 | 8 – Y20<br>Y10 @ 150 c/c (4–Legged)<br>8 – Y20 |

## PEDESTAL DETAILS

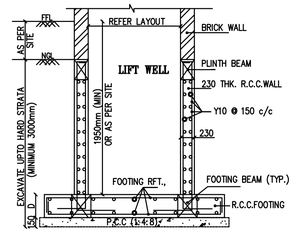
| S No | Pedestal No | Pedestal Size | Pedestal Reinforcement Detail | Rings Detail (R–Ring) | Dimension Detail |
|---|---|---|---|---|---|
| 1 | P1 | 810 X 680 | 18 – Y12<br>Y8 @ 6"c/c | R-1<br>R-2 | 810, 680, 150, 230, 300 COLUMN |
| 2 | P2 | 810 x 750 | 20 – Y12<br>Y8 @ 6"c/c | R-1<br>R-2 | 810, 750, 150, 230, 300 COLUMN |



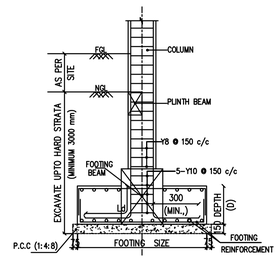

TYPICAL BEAM HOOK DETAILS



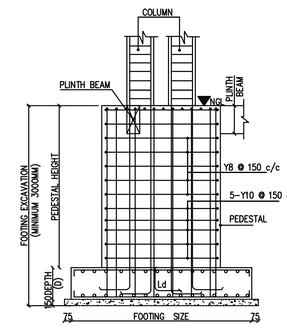

TYPICAL COLUMN HOOK DETAILS



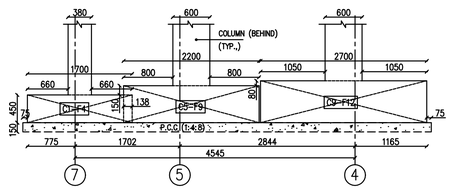

TYPICAL LIFT WELL SECTION
(N.T.S)



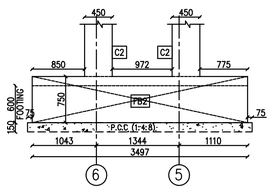

TYPICAL COMBINED FOOTING SECTION
(N.T.S)



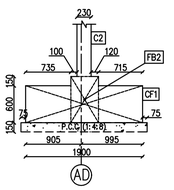

TYPICAL PEDESTAL SECTION DETAIL
(N.T.S)



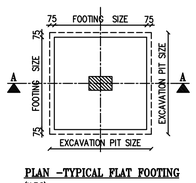

SECTION 1–1
(OTHER DETAILS NOT SHOWN FOR CLARITY)
(SCALE 1:50)



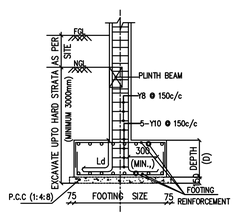

SECTION 2–2
(OTHER DETAILS NOT SHOWN FOR CLARITY)
(SCALE 1:50)




SECTION 3–3
(OTHER DETAILS NOT SHOWN FOR CLARITY)
(SCALE 1:50)




PLAN –TYPICAL FLAT FOOTING
(N.T.S)




SECTION A–A
(N.T.S)

| REF | DESCRIPTION | BY | DATE |
|---|---|---|---|

REVISIONS

CLIENT:
Morais Architect X.

PROJECT:
Proposed 3&2 BHK Apartment (LUXE).

TITLE:
Column & Footing Layout and Details (1-2).

| DSGN | DRWN | CHKD | APPD | DATE | SHEET | SCALE |
|---|---|---|---|---|---|---|
| HG | BA | SKAK | SKAK | 20.02.24 | A1 | 1:100 |

DWG. NO: MORSL-ES-DRL-RK1-01S-R2

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| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| THIRD FLOOR TO TERRACE FLOOR | Section F-F | CONTINUED | CONTINUED | CONTINUED | CONTINUED | CONTINUED | CONTINUED | CONTINUED | CONTINUED | CONTINUED | CONTINUED | CONTINUED | CONTINUED |
| | Section E-E | 4 – Y16 + 4 – Y12 ●<br>Y8 @ 150 c/c<br>** | 6 – Y16 + 4 – Y12 ●<br>Y8 @ 150 c/c<br>** | CONTINUED | 4 – Y16 + 4 – Y12 ●<br>Y8 @ 150 c/c<br>230 x 380<br>&& | 4 – Y16 + 4 – Y12 ●<br>Y8 @ 150 c/c<br>** | CONTINUED | 4 – Y16 + 4 – Y12 ●<br>Y8 @ 150 c/c<br>230 x 380<br>&& | 12 – Y16<br>Y8 @ 150c/c<br>** | 6 – Y16 + 4 – Y12 ●<br>Y8 @ 150 c/c<br>230 x 450<br>&& | 10 – Y16<br>Y8 @ 150 c/c<br>230 x 450<br>&& | 6 – Y16 + 4 – Y12 ●<br>Y8 @ 150 c/c<br>230 x 450<br>&& | CONTINUED |
| FIRST FLOOR TO THIRD FLOOR (SECOND FLOOR ROOF) | Section D-D | CONTINUED | CONTINUED | CONTINUED | CONTINUED | CONTINUED | CONTINUED | CONTINUED | CONTINUED | CONTINUED | CONTINUED | CONTINUED | CONTINUED |
| | Section C-C | CONTINUED | CONTINUED | CONTINUED | CONTINUED | 10 – Y16<br>Y8 @ 150 c/c<br>230 x 450<br>&& | 8 – Y16<br>Y8 @ 150 c/c<br>230 x 380<br>&& | 10 – Y16<br>Y8 @ 150 c/c<br>230 x 450<br>&& | 10 – Y16<br>Y8 @ 150 c/c<br>230 x 450<br>&& | 12 – Y20<br>Y8 @ 150c/c<br>230 x 600<br>&& | 12 – Y16<br>Y8 @ 150c/c<br>230 x 600<br>&& | 4 – Y20 + 8 – Y16 ●<br>Y8 @ 150c/c<br>230 x 600<br>&& | 8 – Y20 + 4 – Y16 ●<br>Y8 @ 150c/c<br>230 x 600<br>&& | 12 – Y16<br>Y8 @ 150c/c<br>230 x 600<br>&& |
| FOUNDATION TO FIRST FLOOR (STILT FLOOR ROOF) | Section B-B | CONTINUED | CONTINUED | CONTINUED | CONTINUED | CONTINUED | CONTINUED | CONTINUED | CONTINUED | CONTINUED | CONTINUED | CONTINUED | CONTINUED | CONTINUED |
| | Section A-A | 8 – Y16<br>Y8 @ 150 c/c | 10 – Y16<br>Y8 @ 150 c/c | 10 – Y16<br>Y8 @ 150 c/c | 10 – Y16<br>Y8 @ 150 c/c | 12 – Y16<br>Y8 @ 150c/c | 10 – Y16<br>Y8 @ 150 c/c | 12 – Y16<br>Y8 @ 150 c/c | 12 – Y16<br>Y8 @ 150 c/c | 8 – Y20 + 6 – Y16 ●<br>Y8 @ 150c/c | 14 – Y16<br>Y8 @ 150c/c | 4 – Y20 + 10 – Y16●<br>Y8 @ 150c/c | 14 – Y20<br>Y8 @ 150c/c | 14 – Y16<br>Y8 @ 150c/c |
| SIZE | | 230 x 380 | 230 x 450 | 230 x 450 | 230 x 450 | 230 x 600 | 300 x 380 | 300 x 450 | 300 x 450 | 300 x 600 | 300 x 600 | 300 x 600 | 300 x 600 | 300 x 600 |
| COLUMN NAME | | C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 |

**COLUMN DETAILS**

**LEGENDS**

** – CHANGE OF COLUMN REINFORCEMENT

&& – CHANGE OF COLUMN SIZE AND REINFORCEMENT

| REF | DESCRIPTION | BY | DATE |
|---|---|---|---|
| | REVISIONS | | |

CLIENT: Morais Architect X.

PROJECT: Proposed 3&2 BHK Apartment (406,408S).

TITLE: Column & Footing Layout and Details (2-2).

| DSGN | DRWN | CHKD | APPD | DATE | SHEET | SCALE |
|---|---|---|---|---|---|---|
| HG | MV | SKAK | SKAK | 20.02.26 | A1 | 1:100 |

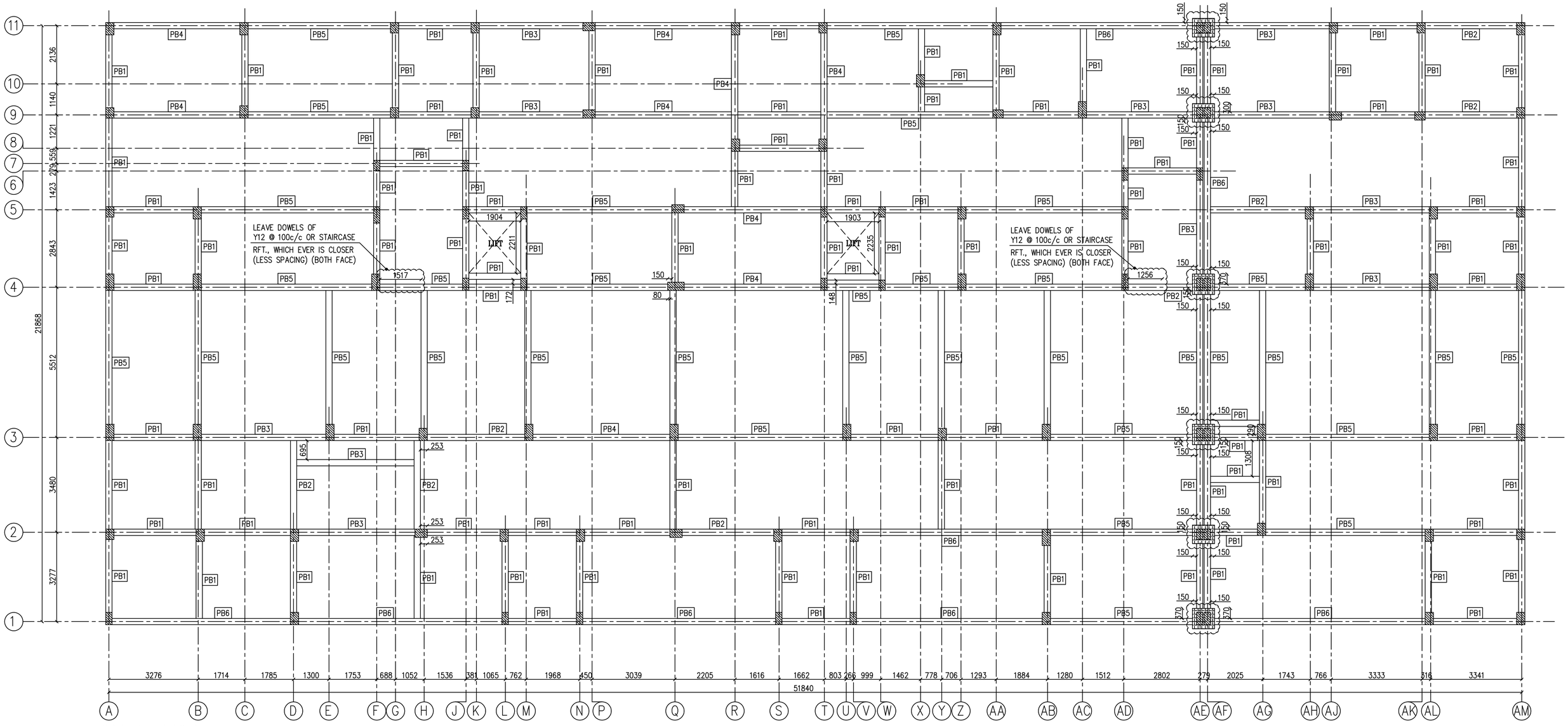
DWG. NO: MOS1-23S1-D04-RK1-016-R2

**STRUCTURAL CONSULTANT**

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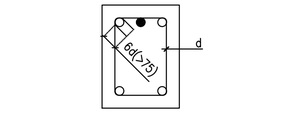

PLINTH BEAM LAYOUT

## PLINTH BEAM DETAILS

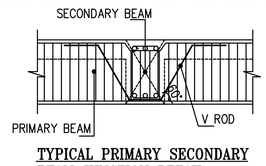
| S No | Beam No | Beam Size | Section @ XX End span | Section @ YY Mid span |
|---|---|---|---|---|
| 1 | PB1 | 230x300 | 3 – Y12<br>Y8 @ 150c/c<br>3 – Y12 | |
| 2 | PB2 | 230x380 | 3 – Y12<br>Y8 @ 150c/c<br>3 – Y12 | |
| 3 | PB3 | 230x380 | 2 – Y16 +<br>2 – Y12 (EXT)●<br>Y8 @ 150c/c<br>2 – Y16 | 2 – Y16<br>Y8 @ 175c/c<br>2 – Y16 +<br>2 – Y12 (EXT)● |
| 4 | PB4 | 230x450 | 3 – Y16<br>Y10 @ 150c/c<br>3 – Y16 | |
| 5 | PB5 | 230x450 | 3 – Y16 +<br>2 – Y12 (EXT)●<br>Y10 @ 150c/c<br>3 – Y16 | 3 – Y16<br>Y10 @ 175c/c<br>3 – Y16 +<br>2 – Y12 (EXT)● |

## PLINTH BEAM DETAILS (CONTI.,)

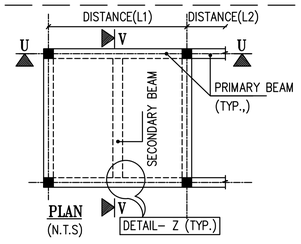
| S No | Beam No | Beam Size | Beam Reinforcement Details |
|---|---|---|---|
| 6 | PB6 | 230x530 | 4 – Y16<br>Y10 @ 150c/c<br>4 – Y16 |



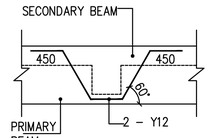

TYPICAL BEAM HOOK DETAILS



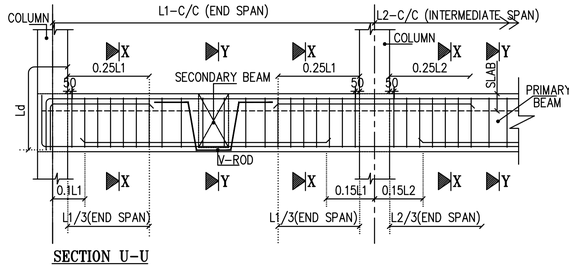

TYPICAL PRIMARY SECONDARY BEAM JUNCTION DETAIL
(N.T.S)



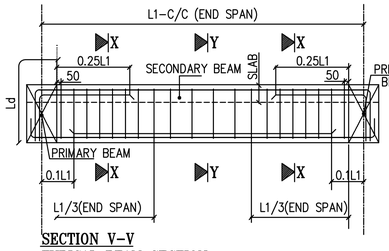

PLAN
(N.T.S)



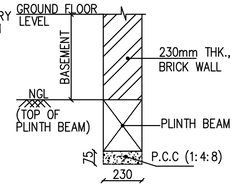

DETAIL – Z
(V–ROD DETAILS)
(N.T.S)




SECTION U–U
TYPICAL BEAM SECTION
(N.T.S)




SECTION V–V
TYPICAL BEAM SECTION
(N.T.S)




TYPICAL PLINTH BEAM SECTION
(N.T.S)

N

## ABBREVIATIONS

| | |
|---|---|
| Ld | – DEVELOPMENT LENGTH |
| PB | – PLINTH BEAM |
| N.T.S | – NOT TO SCALE |

## GENERAL NOTES

1. THIS DRAWING SHOULD BE READ ALONG WITH ARCHITECTURAL DRAWINGS.
2. ALL DIMENSIONS ARE IN MILLIMETERS.
3. ALL STRUCTURAL CONCRETE SHALL BE OF M25(1:1:2) GRADE CONFORMING TO IS:456.
4. ALL REINFORCEMENT(Y) SHALL BE H.Y.S.D. BARS OF GRADE Fe 550 CONFORMING TO IS:1786.
5. THE CLEAR COVER FOR REINFORCEMENT SHALL BE 25mm FOR PLINTH BEAM.
6. LAP LENGTH (Ld) SHALL BE 50*D (DIA OF BAR) FOR ALL BARS.
7. NOT MORE THAN 50% OF REINFORCEMENT SHALL BE LAPPED AT ANY PARTICULAR JUNCTION.
8. SPACER BAR TO BE PROVIDED IN BETWEEN TWO LAYERS OF REINFORCEMENT OF SAME DIA(MIN.,20mm) AT EVERY 1000 C/C.
9. THIS DRAWING IS NOT TO BE SCALED ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED.
10. THE SITE IN–CHARGE SHALL CHECK AND VERIFY ALL DIMENSIONS ON SITE BEFORE COMMENCEMENT OF WORKS AND ANY DISCREPANCIES SHALL BE REPORTED TO THE STRUCTURAL ENGINEER BEFORE EXECUTION.
11. DESIGNED ONLY FOR STATIC LOAD (DL + LL) LOAD CASES.

## LEGENDS

– FULL HEIGHT COLUMN

– PEDESTAL COLUMN

GOOD FOR CONSTRUCTION

| REF | DESCRIPTION | BY | DATE |
|---|---|---|---|
| REVISIONS | | | |

CLIENT:
Morais Architect X.

PROJECT:
Proposed 3&2 BHK Apartment (LUXE).

TITLE:
Plinth Beam Layout and Details.

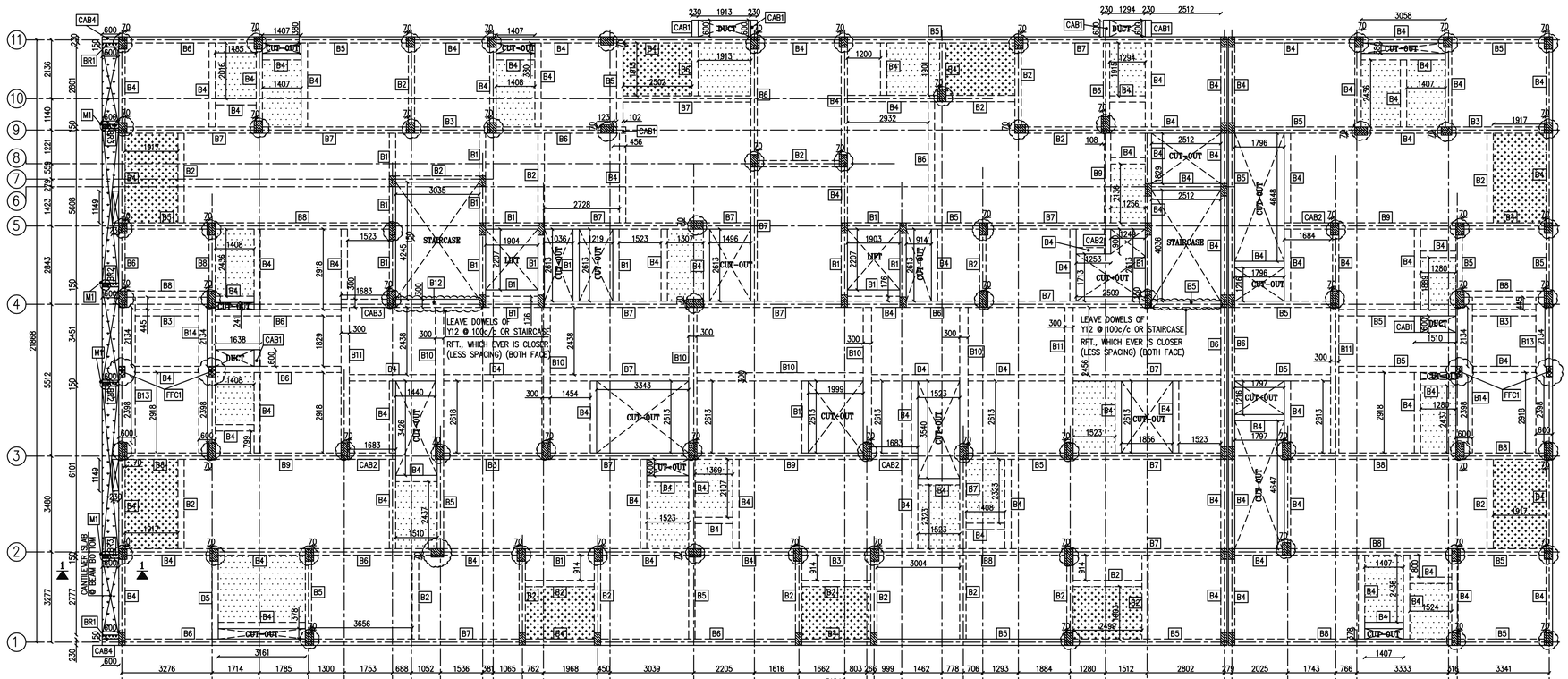
| DSGN | DRWN | CHKD | APPD | DATE | SHEET | SCALE |
|---|---|---|---|---|---|---|
| MH | MH | SKAK | SKAK | 06.03.26 | A2 | 1:100 |

DWG. NO: M[0]S[-]2[5]-[0]4[-]R[C]-[1]2[-]R[2]

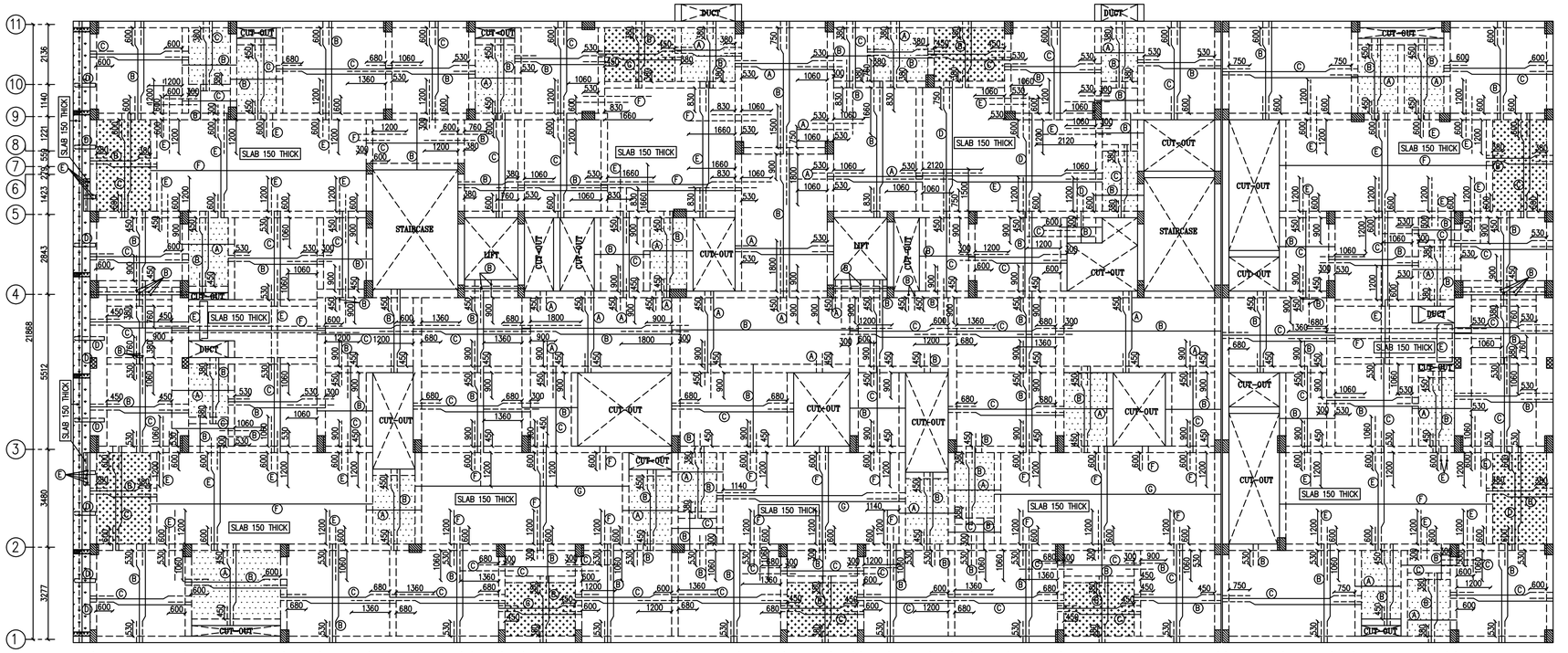
STRUCTURAL CONSULTANT

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FIRST FLOOR BEAM LAYOUT
(ALL BEAMS ARE SEEN BELOW)




FIRST FLOOR SLAB LAYOUT
(ALL BEAMS ARE SEEN BELOW)

## BEAM DETAILS

| S No | Beam No | Beam Size | Section @ XX End span | Section @ YY Mid span |
|---|---|---|---|---|
| 1 | B1 | 230x300 | 3 – Y12<br>Y8 @ 150c/c<br>3 – Y12 | |
| 2 | B2 | 230x380 | 3 – Y12<br>Y8 @ 150c/c<br>3 – Y12 | |
| 3 | B3 | 230x380 | 2 – Y12 +<br>2 – Y12 (EXT)•<br>Y8 @ 150c/c<br>2 – Y12 | 2 – Y12<br>Y8 @ 175c/c<br>2 – Y12 +<br>2 – Y12 (EXT)• |
| 4 | B4/ CAB1 | 230x450 | 2 – Y16<br>Y8 @ 150c/c<br>2 – Y16 | |
| 5 | B5 | 230x450 | 3 – Y12 +<br>2 – Y16 (EXT)•<br>Y8 @ 150c/c<br>3 – Y12 | 3 – Y12<br>Y8 @ 175c/c<br>3 – Y12 +<br>2 – Y16 (EXT)• |
| 6 | B6 | 230x450 | 2 – Y16 +<br>2 – Y16 (EXT)•<br>Y8 @ 150c/c<br>2 – Y16 | 2 – Y16<br>Y8 @ 175c/c<br>2 – Y16 +<br>2 – Y16 (EXT)• |
| 7 | B7 | 230x450 | 2 – Y16 +<br>3 – Y16 (EXT)•<br>Y8 @ 150c/c<br>2 – Y16 | 2 – Y16<br>Y8 @ 175c/c<br>2 – Y16 +<br>3 – Y16 (EXT)• |
| 8 | B8 | 230x450 | 3 – Y16 +<br>3 – Y16 (EXT)•<br>Y8 @ 150c/c<br>3 – Y16 | 3 – Y16<br>Y8 @ 175c/c<br>3 – Y16 +<br>3 – Y16 (EXT)• |
| 9 | B9/ CAB2 | 230x450 | 6 – Y16<br>Y8 @ 150c/c<br>3 – Y16 | |
| 10 | B10 | 300x450 | 2 – Y16 +<br>3 – Y20 (EXT)•<br>Y8 @ 150c/c<br>2 – Y16 | 2 – Y16<br>Y8 @ 175c/c<br>2 – Y16 +<br>3 – Y20 (EXT)• |
| 11 | B11 | 300x450 | 3 – Y20 +<br>3 – Y20 (EXT)•<br>Y8 @ 150c/c<br>3 – Y20 | 3 – Y20<br>Y8 @ 175c/c<br>3 – Y20 +<br>3 – Y20 (EXT)• |
| 12 | B12/ CAB3 | 300x450 | 3 – Y25 +<br>3 – Y20 •<br>Y10 @ 150c/c<br>3 – Y20 | |
| 13 | B13 | 600x450 | 7 – Y20 +<br>3 – Y25 (EXT)•<br>Y10 @ 125c/c<br>(4 LEGGED)<br>7 – Y20 | 7 – Y20<br>Y10 @ 150c/c<br>(4 LEGGED)<br>7 – Y20 +<br>3 – Y25 (EXT)• |
| 14 | B14 | 600x450 | 7 – Y25 +<br>3 – Y25 (EXT)•<br>Y10 @ 100c/c<br>(4 LEGGED)<br>7 – Y25 | 7 – Y25<br>Y10 @ 100c/c<br>(4 LEGGED)<br>7 – Y25 +<br>3 – Y25 (EXT)• |
| 15 | CAB4 | 230x450 | 4 – Y16<br>Y8 @ 150c/c<br>2 – Y16 | |

## FLOATING COLUMN DETAILS

| S No | Column No | Column Size | Column Reinforcement Detail | Rings Detail (R-Ring) |
|---|---|---|---|---|
| 1 | FFC1 | 230 x 380 | 8 – Y16<br>Y8 @ 150c/c | R–1 |

## SLAB DETAILS

THICKNESS :125 (UNLESS NOTED)

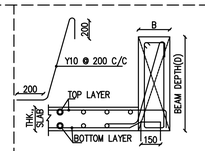
| | |
|---|---|
| A | Y8 @ 150 C/C |
| B | Y8 @ 175 C/C |
| C | Y8 @ 200 C/C |
| D | Y10 @ 125 C/C |
| E | Y10 @ 150 C/C |
| F | Y10 @ 175 C/C |
| G | Y10 @ 200 C/C |

## MULLION COLUMN DETAILS

| S No | Column No | Column Size | Column Reinforcement Detail | Rings Detail (R-Ring) |
|---|---|---|---|---|
| 1 | M1 | 150 x 230 | 4 – Y12<br>Y8 @ 175c/c | R–1 |

TYPICAL BEAM HOOK DETAILS

NOTE
* ALL SUNKEN SLABS SHOULD BE FILLED ONLY WITH LIGHT WEIGHT FILLING MATERIAL (VERMULITE/VERMICULITE) OF UNIT WEIGHT 90 kg/m3 OR 1 kN/m2.




INVERTED BEAM/SUNKEN SLAB WITH CUT OFF REINFORCEMENT

ABBREVIATIONS

| | |
|---|---|
| Ld | – DEVELOPMENT LENGTH |
| CAB | – CANTILEVER BEAM |
| BR | – BRACKET |
| N.T.S | – NOT TO SCALE |
| FFC | – FIRST FLOOR FLOATING COLUMN |
| M | – MULLION COLUMN |
| LVL | – LEVEL |

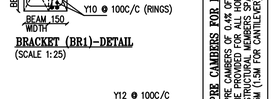
LEGENDS

- – FULL HEIGHT COLUMN
- – FLOATING COLUMN FROM FIRST FLOOR
- – MULLION COLUMN FROM FIRST FLOOR
- – COLUMN BRACKET
- – 230mm SUNKEN SLAB
- – 100mm SUNKEN
- – BEAM BRACKET
- – SLAB @ BEAM BOTTOM
- – TOP REINFORCEMENT
- – BOTTOM REINFORCEMENT

GENERAL NOTES

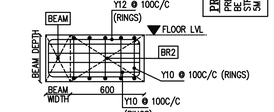
1. THIS DRAWING SHOULD BE READ ALONG WITH ARCHITECTURAL DRAWINGS.
2. ALL DIMENSIONS ARE IN MILLIMETERS.
3. ALL STRUCTURAL CONCRETE SHALL BE OF M25(1:1:2) GRADE CONFORMING TO IS:456.
4. ALL REINFORCEMENT(Y) SHALL BE H.Y.S.D. BARS OF GRADE Fe 550 CONFORMING TO IS:1786.
5. THE CLEAR COVER FOR REINFORCEMENT SHALL BE 12.5mm FOR SLAB, 25mm FOR BEAM & 40mm COLUMN
6. LAP LENGTH (Ld) SHALL BE 50*D (DIA OF BAR) FOR ALL BARS.
7. NOT MORE THAN 50% OF REINFORCEMENT SHALL BE LAPPED AT ANY PARTICULAR JUNCTION.
8. THIS DRAWING IS NOT TO BE SCALED ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED.
9. MINIMUM DEPTH OF SUNKEN SHALL BE 230mm.
10. ALL SLABS SHALL BE PROVIDED WITH TOP DISTRIBUTORS OF Y8 @ 200 C/C.
11. SPACER BAR TO BE PROVIDED IN BETWEEN TWO LAYERS OF REINFORCEMENT OF SAME DIA(MIN.,20mm) AT EVERY 1000 C/C.
12. THE SITE IN-CHARGE SHALL CHECK AND VERIFY ALL DIMENSIONS ON SITE BEFORE COMMENCEMENT OF WORKS AND ANY DISCREPANCIES SHALL BE REPORTED TO THE STRUCTURAL ENGINEER BEFORE EXECUTION.

N

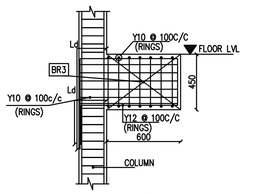



BRACKET (BR1)–DETAIL
(SCALE 1:25)

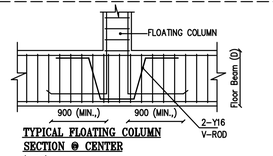
PRE CAMBERS FOR BEAMS
PRE CAMBERS OF 0.4% OF THE SPAN BE PROVIDED TO ALL BEAMS OF STRUCTURAL MEMBERS SPAN EXCEEDING 5M (1.5M FOR CANTILEVER).



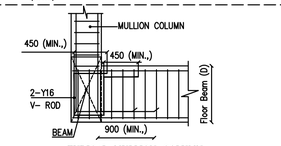

BRACKET (BR2)–DETAIL
(SCALE 1:25)



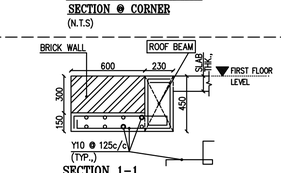

BRACKET (BR3)–DETAIL
(SCALE 1:25)




TYPICAL FLOATING COLUMN SECTION @ CENTER
(N.T.S)



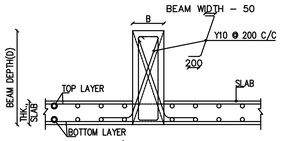

TYPICAL MULLION COLUMN SECTION @ CORNER
(N.T.S)




SECTION 1–1
(N.T.S)

LIVE LOAD SCHEDULE

| DESCRIPTION | LIVE LOAD (kN/m²) |
|---|---|
| FIRST FLOOR | 2 |




INVERTED BEAM/SUNKEN SLAB WITH CONTINUOUS SLAB REINFORCEMENT

GOOD FOR CONSTRUCTION

| REF | DESCRIPTION | BY | DATE |
|---|---|---|---|
| R2 | SUNKEN REVISED AS 230mm | DK | 05.06.26 |

REVISIONS

CLIENT: Morais Architect X.

PROJECT: Proposed 3&2 BHK Apartment (LUXE).

TITLE: First Floor Slab, Beam Layout & Details (1-2).

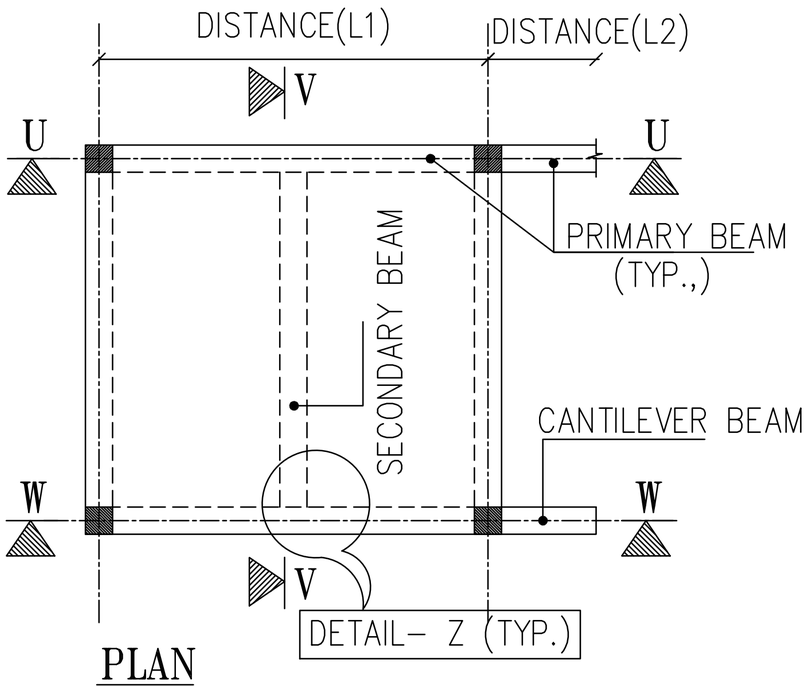
| DSGN | DRWN | CHKD | APPD | DATE | SHEET | SCALE |
|---|---|---|---|---|---|---|
| JS | SP | SKAK | SKAK | 06.03.26 | A1 | 1:100 |

DWG. NO: MJOI-125-DH-RK1-1ISE-R2

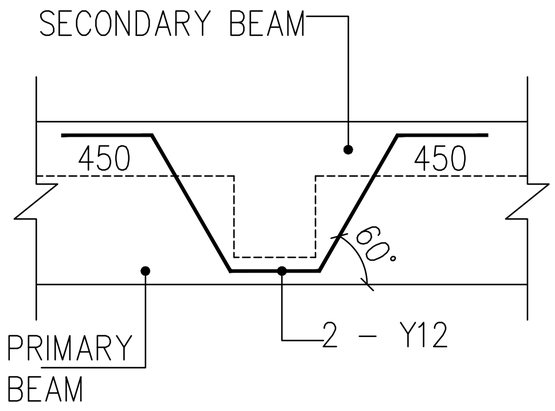
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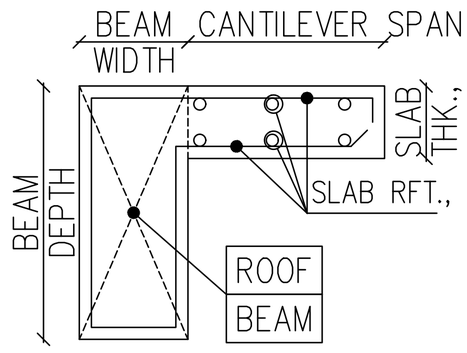
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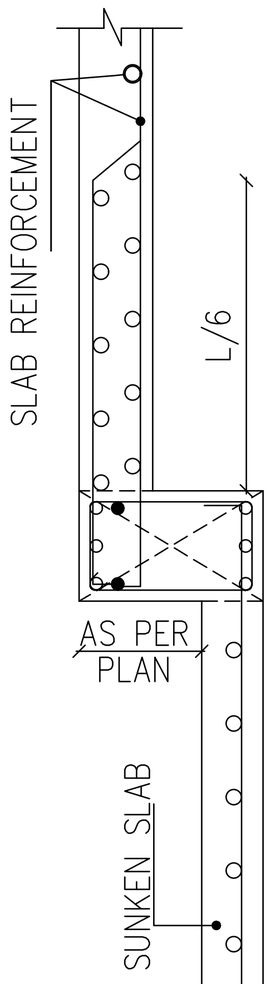

**PLAN**
(N.T.S)



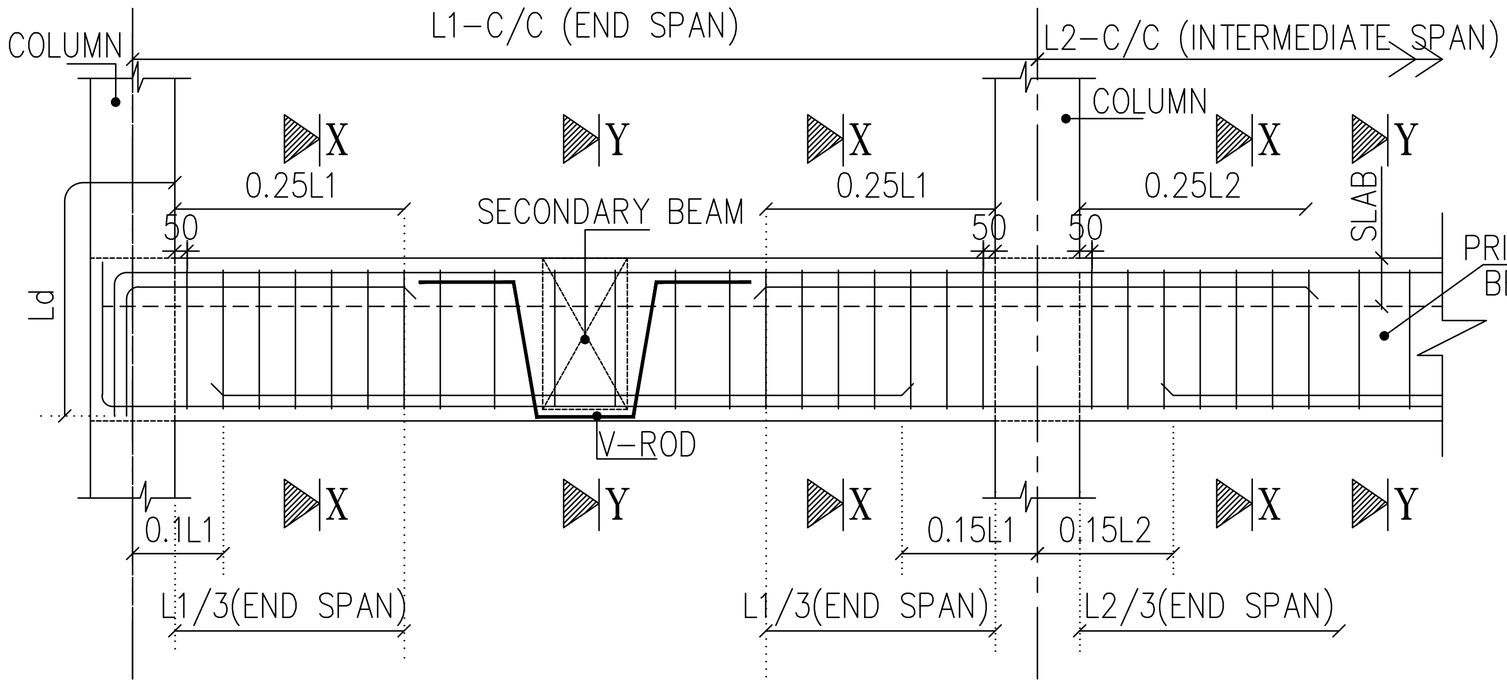

**DETAIL - Z**
**(V-ROD DETAILS)**
(N.T.S)



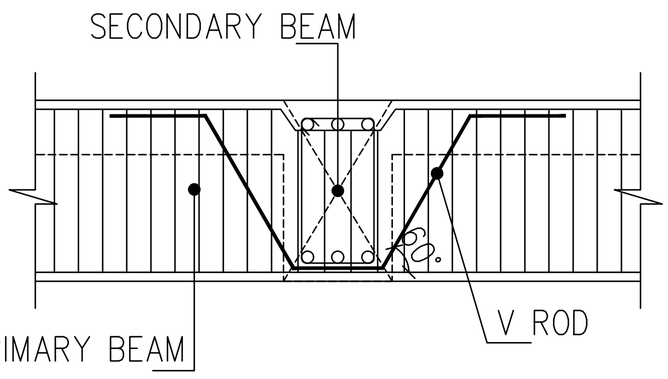

**TYPICAL CANTILEVER SLAB SECTION**
(N.T.S)



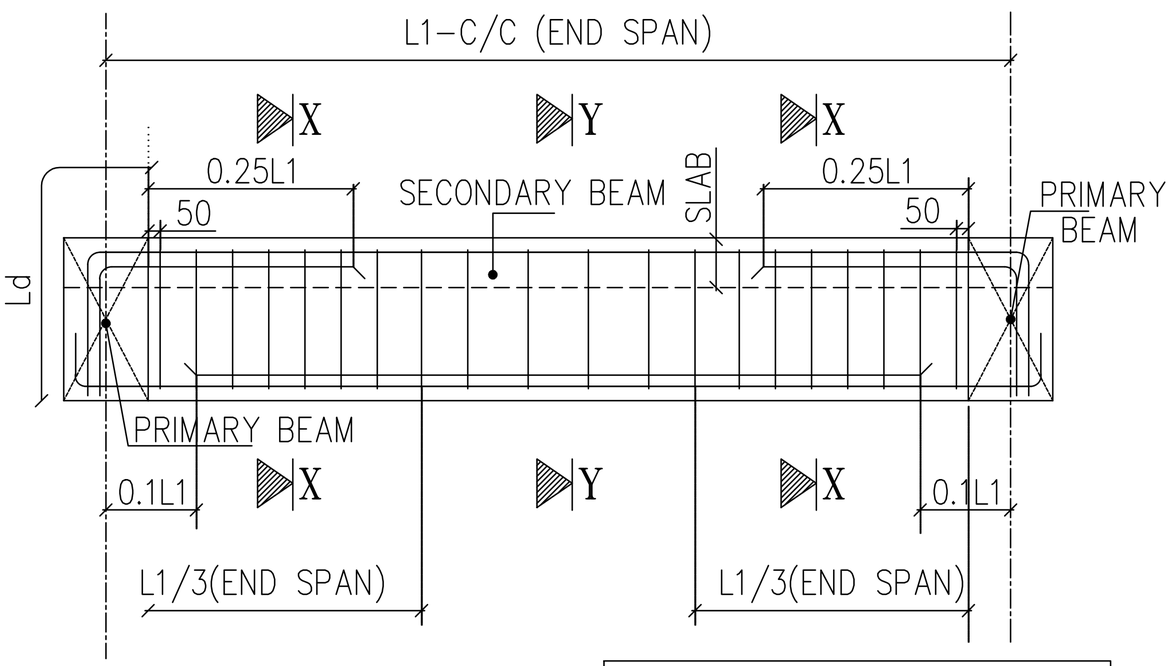

**TYPICAL SUNKEN SLAB SECTION**
(N.T.S)




**SECTION U-U**
**TYPICAL BEAM SECTION**
(N.T.S)




**TYPICAL PRIMARY SECONDARY BEAM JUNCTION DETAIL**
(N.T.S)



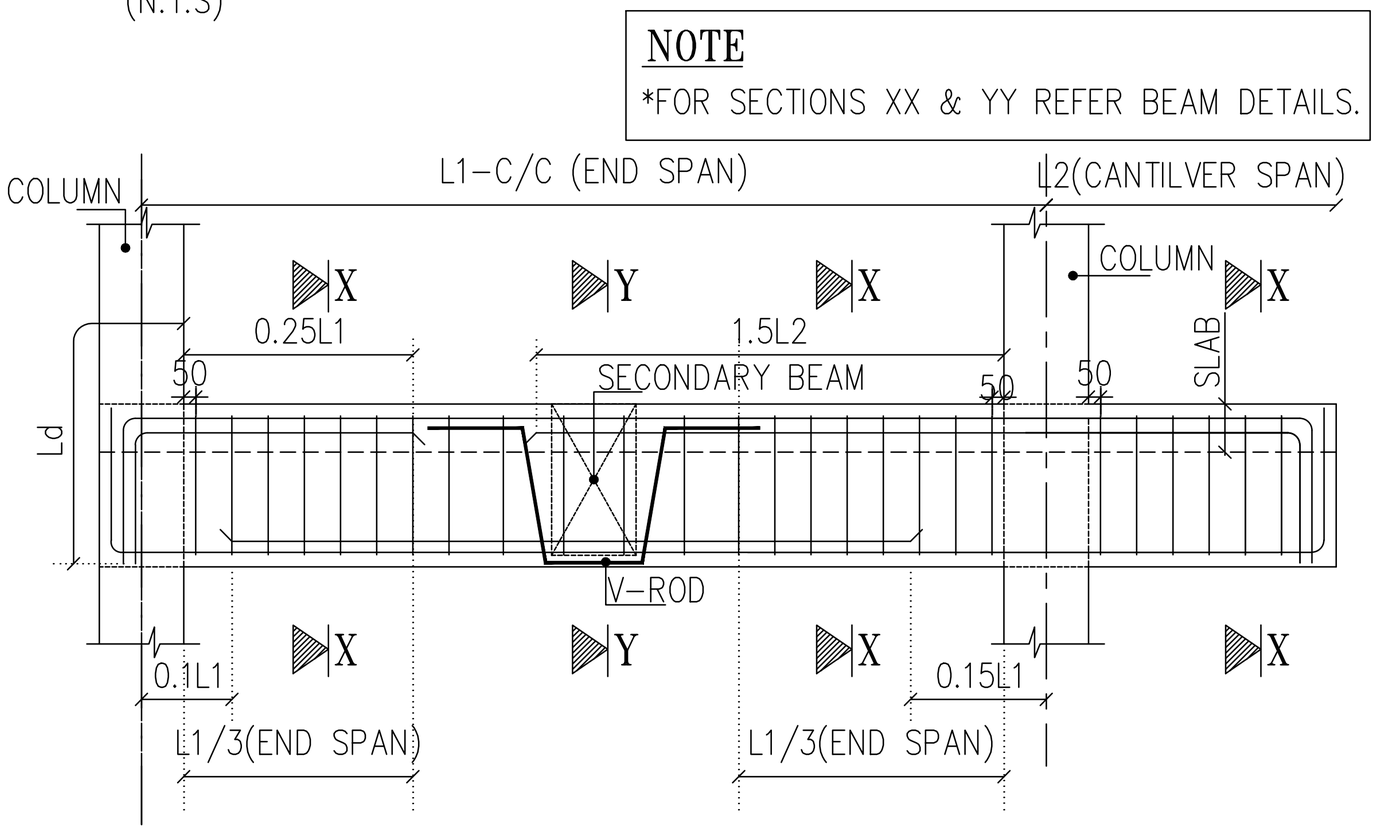

**SECTION V-V**
**TYPICAL BEAM SECTION**
(N.T.S)

**ABBREVIATION**

Ld – DEVELOPMENT LENGTH

**NOTE**

*FOR SECTIONS XX & YY REFER BEAM DETAILS.




**SECTION W-W**
**TYPICAL CANTILEVER BEAM SECTION**
(N.T.S)

GOOD FOR CONSTRUCTION

| REF. | DESCRIPTION | BY | DATE |
|---|---|---|---|
| | REVISIONS | | |

CLIENT:
Morais Architect X.

PROJECT:
Proposed 3&2 BHK Apartment (LUXE).

TITLE:
First Floor Slab, Beam Layout & Details (2-2).

| DSGN | DRWN | CHKD | APPD | DATE | SHEET | SCALE |
|---|---|---|---|---|---|---|
| JS | SP | SKAK | SKAK | 06.03.26 | A4 | 1:100 |

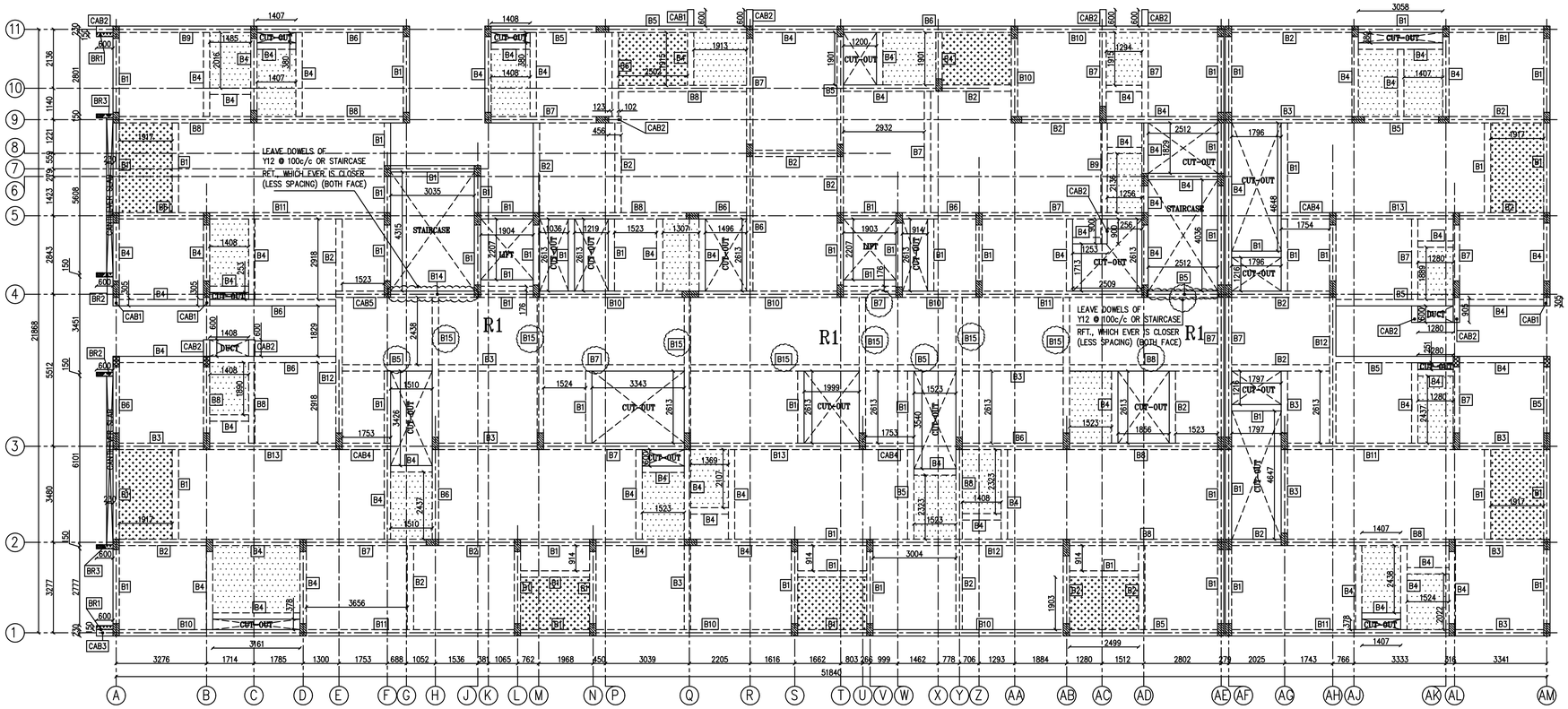
DWG. NO: MOS-25-04-RC-14-R2

STRUCTURAL CONSULTANT

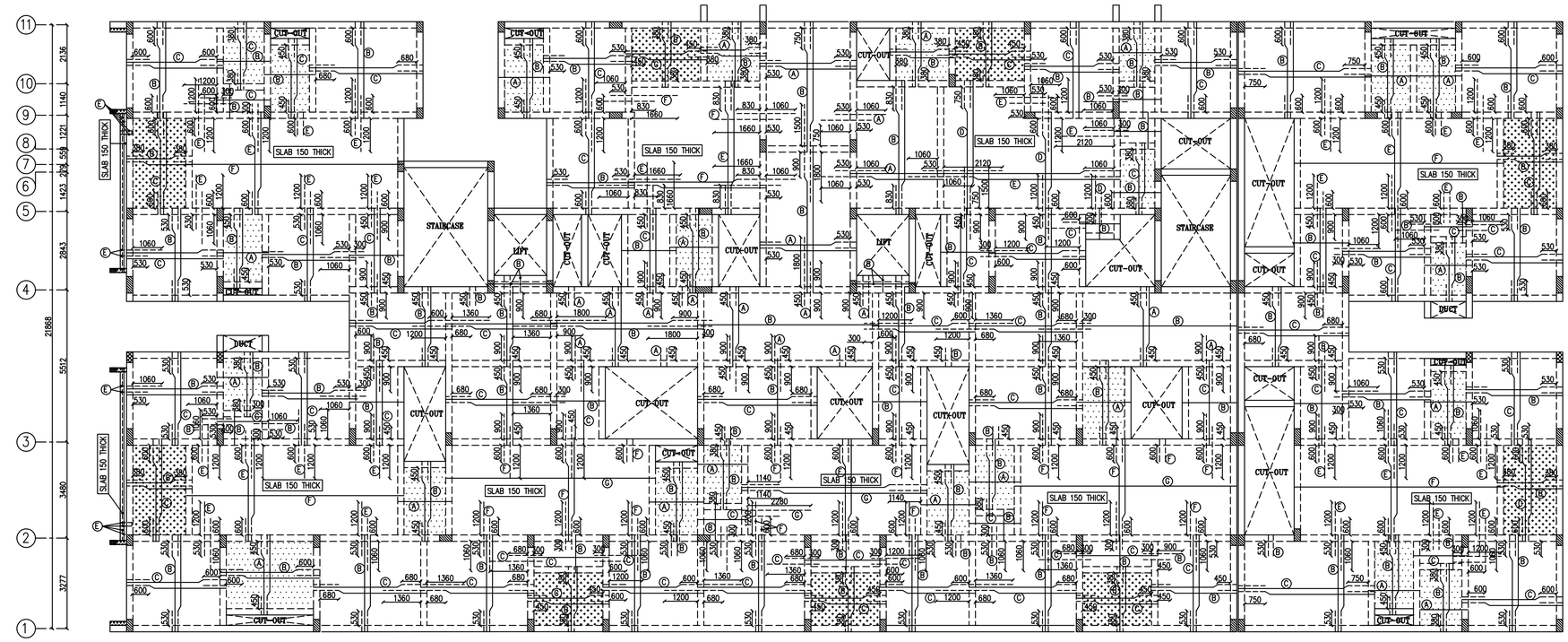
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SECOND FLOOR BEAM LAYOUT




SECOND FLOOR SLAB LAYOUT

## BEAM DETAILS

| S No | Beam No | Beam Size | Section @ XX End span | Section Mid span @ YY |
|---|---|---|---|---|
| 1 | B1 | 230x300 | 3 – Y12<br>Y8 @ 175c/c<br>3 – Y12 | |
| 2 | B2 | 230x380 | 3 – Y12<br>Y8 @ 175c/c<br>3 – Y12 | |
| 3 | B3 | 230x380 | 2 – Y12 +<br>2 – Y16 (EXT)●<br>Y8 @ 150c/c<br>2 – Y12 | 2 – Y12<br>Y8 @ 175c/c<br>2 – Y12 +<br>2 – Y16 (EXT)● |
| 4 | B4/ CAB1 | 230x450 | 2 – Y16<br>Y8 @ 150c/c<br>2 – Y16 | |
| 5 | B5 | 230x450 | 3 – Y12 +<br>2 – Y12 (EXT)●<br>Y8 @ 150c/c<br>3 – Y12 | 3 – Y12<br>Y8 @ 175c/c<br>3 – Y12 +<br>2 – Y12 (EXT)● |
| 6 | B6 | 230x450 | 2 – Y16<br>2 – Y12 (EXT)●<br>Y8 @ 150c/c<br>2 – Y16 | 2 – Y16<br>Y8 @ 175c/c<br>2 – Y16 +<br>2 – Y12 (EXT)● |
| 7 | B7 | 230x450 | 2 – Y16 +<br>2 – Y16 (EXT)●<br>Y8 @ 150c/c<br>2 – Y16 | 2 – Y16<br>Y8 @ 175c/c<br>2 – Y16 +<br>2 – Y16 (EXT)● |
| 8 | B8 | 230x450 | 2 – Y16 +<br>3 – Y16 (EXT)●<br>Y8 @ 150c/c<br>2 – Y16 | 2 – Y16<br>Y8 @ 175c/c<br>2 – Y16 +<br>3 – Y16 (EXT)● |
| 9 | B9/ CAB2 | 230x450 | 4 – Y16<br>Y8 @ 150c/c<br>2 – Y16 | |
| 10 | B10/ CAB3 | 230x600 | 3 – Y16<br>Y8 @ 150c/c<br>3 – Y16 | |
| 11 | B11 | 230x600 | 2 – Y16 +<br>2 – Y16 (EXT)●<br>Y8 @ 150c/c<br>2 – Y16 | 2 – Y16<br>Y8 @ 175c/c<br>2 – Y16 +<br>2 – Y16 (EXT)● |
| 12 | B12 | 230x600 | 2 – Y16 +<br>3 – Y16 (EXT)●<br>Y8 @ 150c/c<br>2 – Y16 | 2 – Y16<br>Y8 @ 175c/c<br>2 – Y16 +<br>3 – Y16 (EXT)● |
| 13 | B13/ CAB4 | 230x600 | 5 – Y16<br>Y8 @ 150c/c<br>3 – Y16 | |
| 14 | B14/ CAB5 | 230x600 | 4 – Y20 +<br>2 – Y16●<br>Y8 @ 150c/c<br>2 – Y20 | |
| 15 | B15 | 230x450 | 4 – Y20<br>Y8 @ 125c/c<br>4 – Y20 | |

R1

## SLAB DETAILS

THICKNESS :125 (UNLESS NOTED)

| | | |
|---|---|---|
| A | Y8 @ | 150 C/C |
| B | Y8 @ | 175 C/C |
| C | Y8 @ | 200 C/C |
| D | Y10 @ | 125 C/C |
| E | Y10 @ | 150 C/C |
| F | Y10 @ | 175 C/C |
| G | Y10 @ | 200 C/C |

## LIVE LOAD SCHEDULE

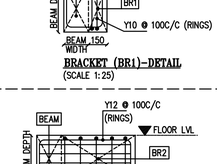
| DESCRIPTION | LIVE LOAD (kN/m²) |
|---|---|
| SECOND FLOOR | 2 |

## NOTE

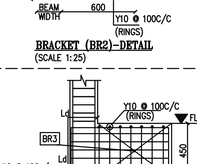
* ALL SUNKEN SLABS SHOULD BE FILLED ONLY WITH LIGHT WEIGHT FILLING MATERIAL (HEMALITE,VERMICULITE) OF UNIT WEIGHT 90 kg/m3 OR 1 kN/m2.

## PRE CAMBERS FOR BEAMS

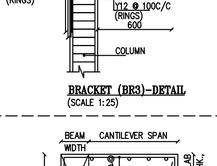
PRE CAMBERS OF 0.4% OF THE SPAN BE PROVIDED FOR ALL HORIZONTAL STRUCTURAL MEMBERS SPAN EXCEEDING 5M (1.5M FOR CANTILEVER).



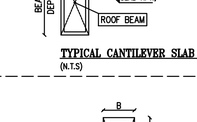

BRACKET (BR1)–DETAIL
(SCALE 1:25)



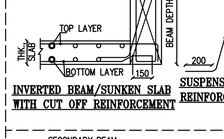

BRACKET (BR2)–DETAIL
(SCALE 1:25)




BRACKET (BR3)–DETAIL
(SCALE 1:25)




TYPICAL CANTILEVER SLAB SECTION
(N.T.S)




INVERTED BEAM/SUNKEN SLAB WITH CUT OFF REINFORCEMENT

SUSPENSION REINFORCEMENT

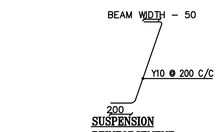



TYPICAL PRIMARY SECONDARY BEAM JUNCTION DETAIL
(N.T.S)

TYPICAL BEAM HOOK DETAILS




INVERTED BEAM/SUNKEN SLAB WITH CONTINUOUS SLAB REINFORCEMENT




SUSPENSION REINFORCEMENT

GOOD FOR CONSTRUCTION

| REF | DESCRIPTION | BY | DATE |
|---|---|---|---|
| R2 | SUNKEN REVISED AS 230mm | DK | 05.06.26 |
| R1 | BEAM DETAILS REVISED IN CORRIDOR PORTION AND B15 BEAM ADDED. | DK | 14.05.26 |

REVISIONS

CLIENT: Morais Architect X.

PROJECT: Proposed 3&2 BHK Apartment (LUXE).

TITLE: Second Floor Slab, Beam Layout and Details (1-2).

| DSGN | DRWN | CHKD | APPD | DATE | SHEET | SCALE |
|---|---|---|---|---|---|---|
| JS | SP | SKAK | SKAK | 06.03.26 | A1 | 1:100 |

DWG. NO: MOIST-2ST-01-RK-11ST-R2

## LEGENDS

- FULL HEIGHT COLUMN
- FLOATING COLUMN FROM FIRST FLOOR
- MULLION COLUMN FROM FIRST FLOOR
- COLUMN BRACKET
- 230mm SUNKEN SLAB
- 100mm SUNKEN
- BEAM BRACKET
- TOP REINFORCEMENT
- BOTTOM REINFORCEMENT

## GENERAL NOTES

1. THIS DRAWING SHOULD BE READ ALONG WITH ARCHITECTURAL DRAWINGS.
2. ALL DIMENSIONS ARE IN MILLIMETERS.
3. ALL STRUCTURAL CONCRETE SHALL BE OF M25(1:1:2) GRADE CONFORMING TO IS:456.
4. ALL REINFORCEMENT(Y) SHALL BE H.Y.S.D. BARS OF GRADE Fe 550 CONFORMING TO IS:1786.
5. THE CLEAR COVER FOR REINFORCEMENT SHALL BE 12.5mm FOR SLAB & 25mm FOR BEAM.
6. LAP LENGTH (Ld) SHALL BE 50*D (DIA OF BAR) FOR ALL BARS.
7. NOT MORE THAN 50% OF REINFORCEMENT SHALL BE LAPPED AT ANY PARTICULAR JUNCTION.
8. THIS DRAWING IS NOT TO BE SCALED ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED.
9. MINIMUM DEPTH OF SUNKEN SHALL BE 230mm.
10. ALL SLABS SHALL BE PROVIDED WITH TOP DISTRIBUTORS OF Y8 @ 200 C/C.
11. SPACER BAR TO BE PROVIDED IN BETWEEN TWO LAYERS OF REINFORCEMENT OF SAME DIA(MIN.,20mm) AT EVERY 1000 C/C.
12. THE SITE IN-CHARGE SHALL CHECK AND VERIFY ALL DIMENSIONS ON SITE BEFORE COMMENCEMENT OF WORKS AND ANY DISCREPANCIES SHALL BE REPORTED TO THE STRUCTURAL ENGINEER BEFORE EXECUTION.

## ABBREVIATIONS

| | |
|---|---|
| Ld | – DEVELOPMENT LENGTH |
| CAB | – CANTILEVER BEAM |
| BR | – BRACKET |
| N.T.S | – NOT TO SCALE |
| LVL | – LEVEL |

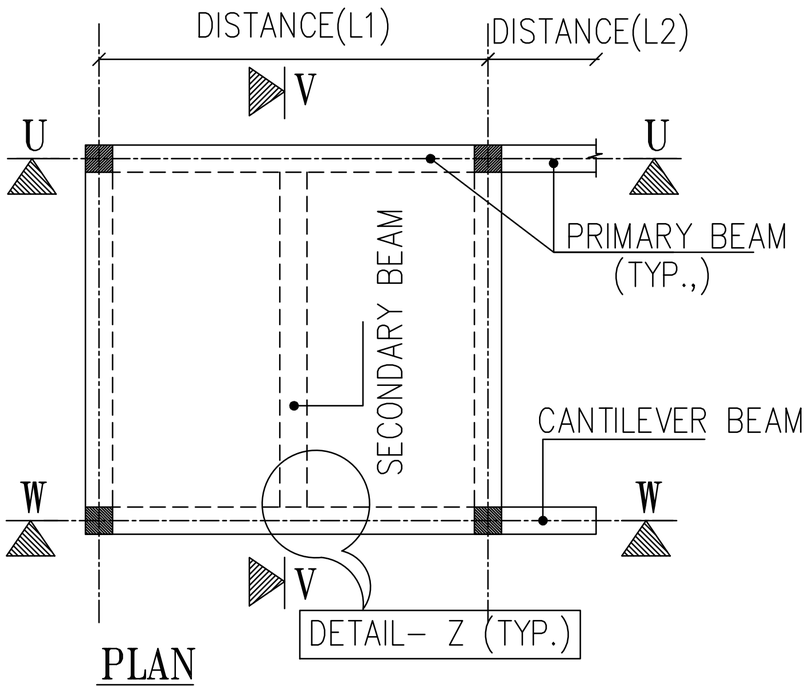
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STRUCTURAL CONSULTANT

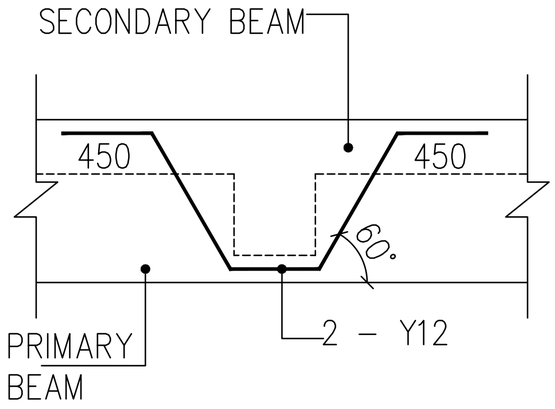
KAARVENS

Er. S.K.ARUN KAMARAJ, ME (Struct.),
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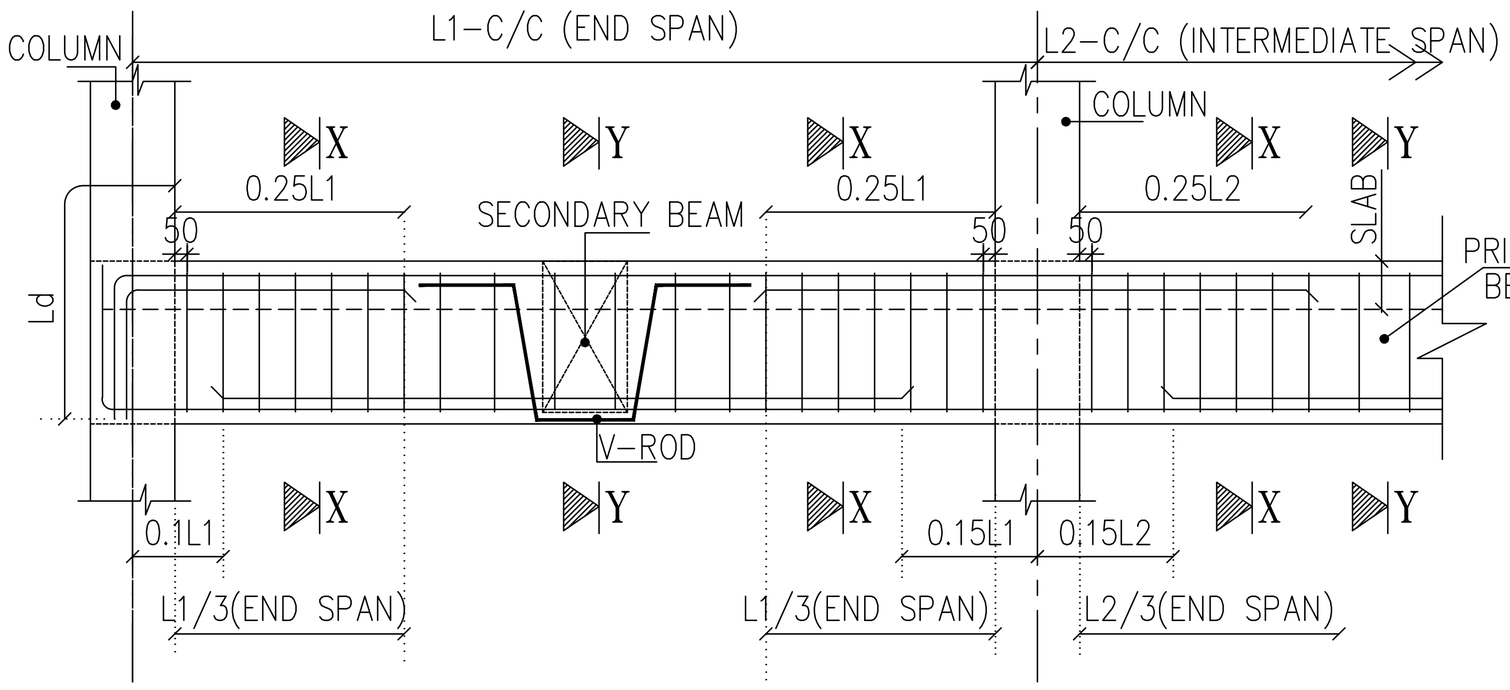
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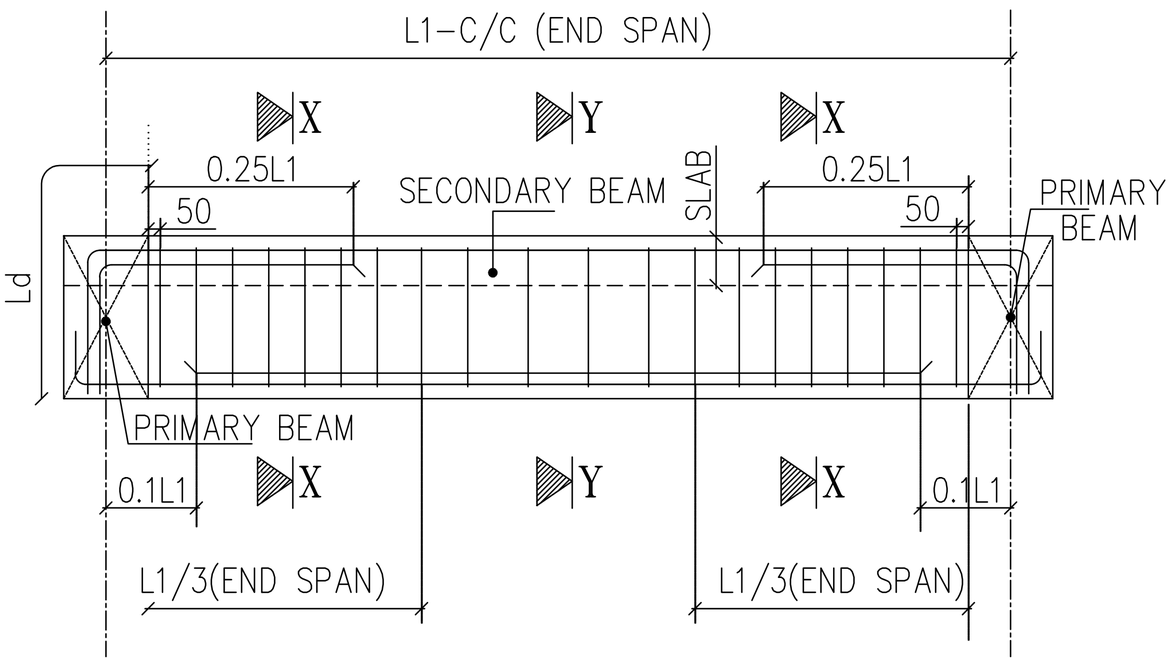

## PLAN
(N.T.S)



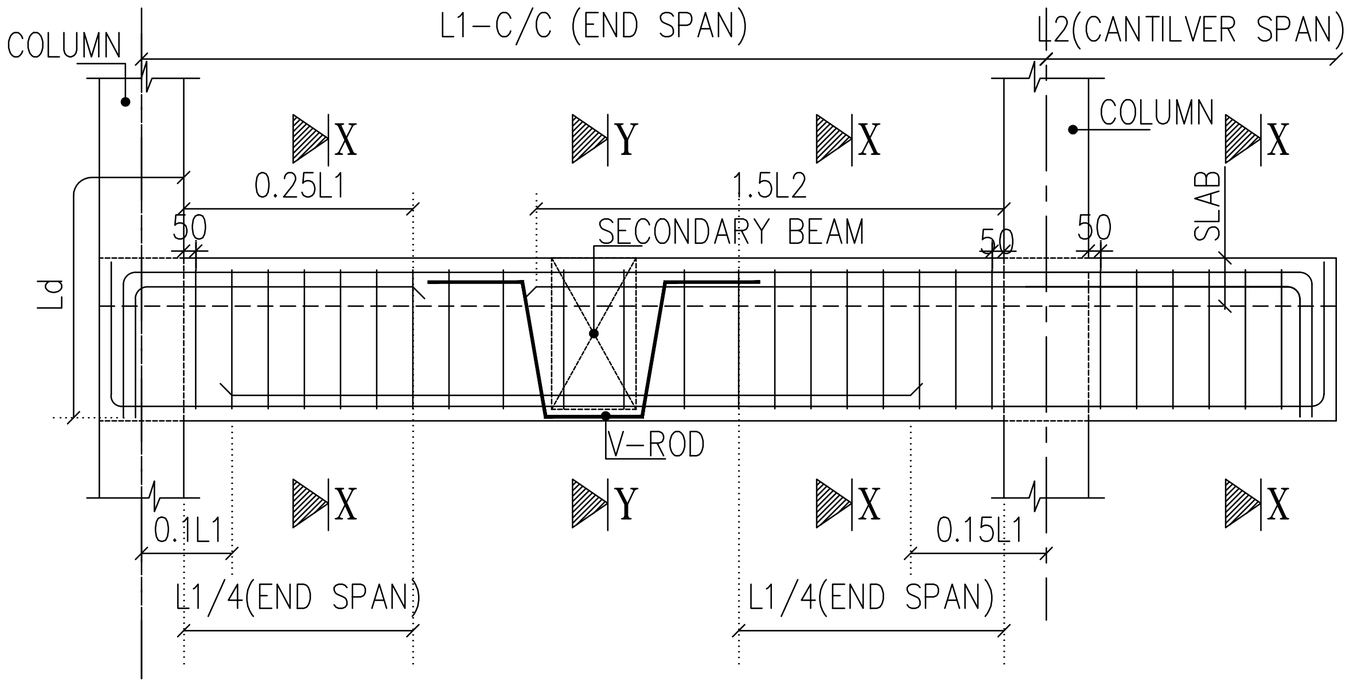

## DETAIL - Z
## (V-ROD DETAILS)
(N.T.S)



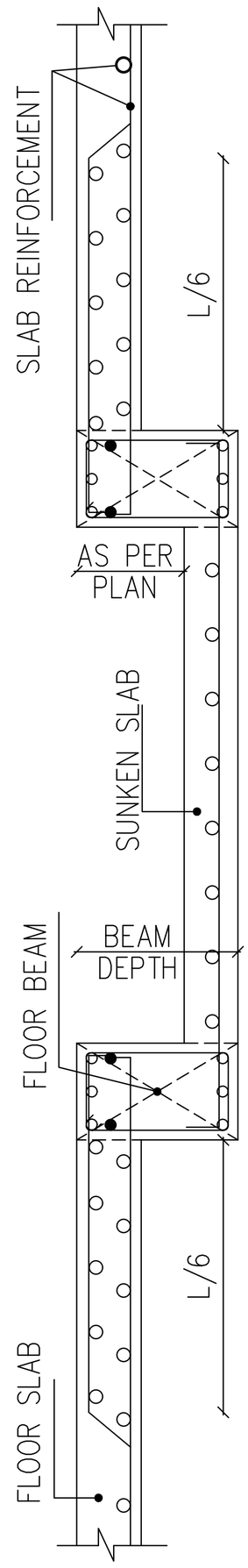

## SECTION U-U
## TYPICAL BEAM SECTION
(N.T.S)




## SECTION V-V
## TYPICAL BEAM SECTION
(N.T.S)




## SECTION W-W
## TYPICAL CANTILEVER BEAM SECTION
(N.T.S)




## TYPICAL SUNKEN SLAB SECTION
(N.T.S)

## ABBREVIATION

Ld – DEVELOPMENT LENGTH

## NOTE

*FOR SECTIONS XX & YY REFER BEAM DETAILS.

GOOD FOR CONSTRUCTION

| REF. | DESCRIPTION | BY | DATE |
|---|---|---|---|
| | REVISIONS | | |

CLIENT:
Morais Architect X.

PROJECT:
Proposed 3&2 BHK Apartment (LUXE).

TITLE:
Second Floor Slab, Beam Layout and Details (2-2).

| DSGN | DRWN | CHKD | APPD | DATE | SHEET | SCALE |
|---|---|---|---|---|---|---|
| JS | SP | SKAK | SKAK | 06.03.26 | A4 | 1:100 |

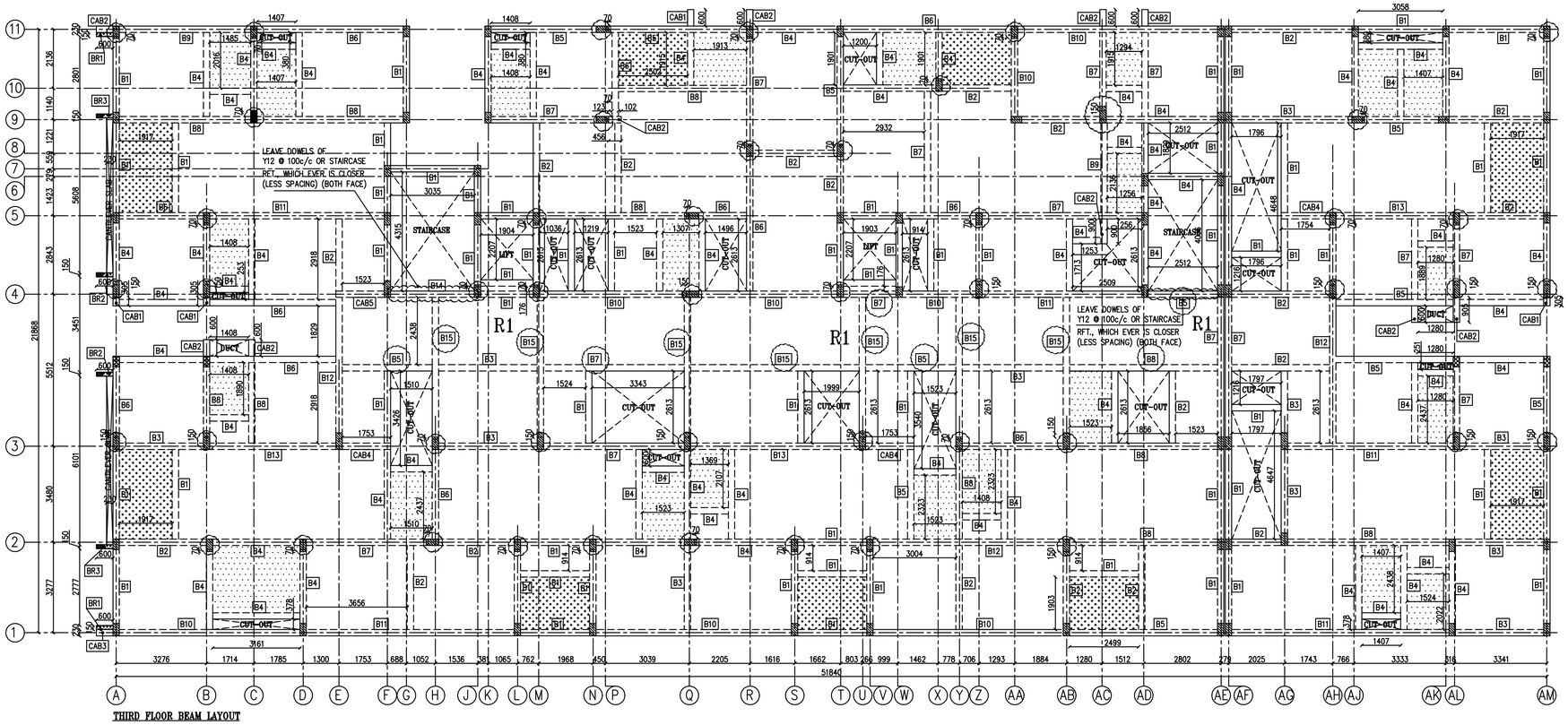
DWG. NO: MOS-25-04-RC-16-R2

## STRUCTURAL CONSULTANT

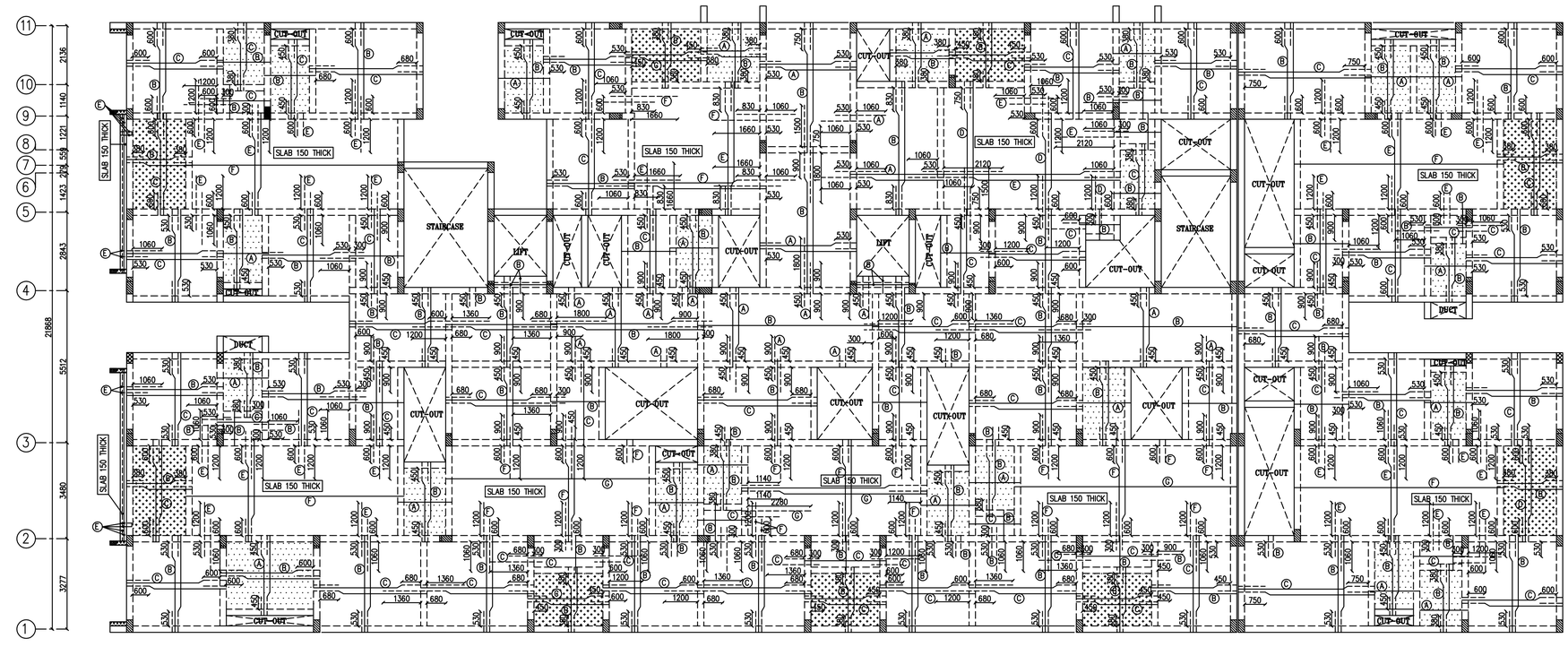
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THIRD FLOOR BEAM LAYOUT




THIRD FLOOR SLAB LAYOUT

## BEAM DETAILS

| S No | Beam No | Beam Size | Section @ XX End span | Section @ YY Mid span |
|---|---|---|---|---|
| 1 | B1 | 230x300 | 3 – Y12<br>Y8 @ 175c/c<br>3 – Y12 | |
| 2 | B2 | 230x380 | 3 – Y12<br>Y8 @ 175c/c<br>3 – Y12 | |
| 3 | B3 | 230x380 | 2 – Y12 +<br>2 – Y16 (EXT)•<br>Y8 @ 150c/c<br>2 – Y12 | 2 – Y12<br>Y8 @ 175c/c<br>2 – Y12 +<br>2 – Y16 (EXT)• |
| 4 | B4/ CAB1 | 230x450 | 2 – Y16<br>Y8 @ 150c/c<br>2 – Y16 | |
| 5 | B5 | 230x450 | 3 – Y12 +<br>2 – Y12 (EXT)•<br>Y8 @ 150c/c<br>3 – Y12 | 3 – Y12<br>Y8 @ 175c/c<br>3 – Y12 +<br>2 – Y12 (EXT)• |
| 6 | B6 | 230x450 | 2 – Y16<br>2 – Y12 (EXT)•<br>Y8 @ 150c/c<br>2 – Y16 | 2 – Y16<br>Y8 @ 175c/c<br>2 – Y16 +<br>2 – Y12 (EXT)• |
| 7 | B7 | 230x450 | 2 – Y16 +<br>2 – Y16 (EXT)•<br>Y8 @ 150c/c<br>2 – Y16 | 2 – Y16<br>Y8 @ 175c/c<br>2 – Y16 +<br>2 – Y16 (EXT)• |
| 8 | B8 | 230x450 | 2 – Y16 +<br>3 – Y16 (EXT)•<br>Y8 @ 150c/c<br>2 – Y16 | 2 – Y16<br>Y8 @ 175c/c<br>2 – Y16 +<br>3 – Y16 (EXT)• |
| 9 | B9/ CAB2 | 230x450 | 4 – Y16<br>Y8 @ 150c/c<br>2 – Y16 | |
| 10 | B10/ CAB3 | 230x600 | 3 – Y16<br>Y8 @ 150c/c<br>3 – Y16 | |
| 11 | B11 | 230x600 | 2 – Y16 +<br>2 – Y16 (EXT)•<br>Y8 @ 150c/c<br>2 – Y16 | 2 – Y16<br>Y8 @ 175c/c<br>2 – Y16 +<br>2 – Y16 (EXT)• |
| 12 | B12 | 230x600 | 2 – Y16 +<br>3 – Y16 (EXT)•<br>Y8 @ 150c/c<br>2 – Y16 | 2 – Y16<br>Y8 @ 175c/c<br>2 – Y16 +<br>3 – Y16 (EXT)• |
| 13 | B13/ CAB4 | 230x600 | 5 – Y16<br>Y8 @ 150c/c<br>3 – Y16 | |
| 14 | B14/ CAB5 | 230x600 | 4 – Y20 +<br>2 – Y16•<br>Y8 @ 150c/c<br>2 – Y20 | |
| 15 | B15 | 230x450 | 4 – Y20<br>Y8 @ 125c/c<br>4 – Y20 | |

R1

## SLAB DETAILS

THICKNESS :125 (UNLESS NOTED)

| | |
|---|---|
| A | Y8 @ 150 C/C |
| B | Y8 @ 175 C/C |
| C | Y8 @ 200 C/C |
| D | Y10 @ 125 C/C |
| E | Y10 @ 150 C/C |
| F | Y10 @ 175 C/C |
| G | Y10 @ 200 C/C |

## LIVE LOAD SCHEDULE

| DESCRIPTION | LIVE LOAD (kN/m²) |
|---|---|
| THIRD FLOOR | 2 |

## NOTE

* ALL SUNKEN SLABS SHOULD BE FILLED ONLY WITH LIGHT WEIGHT FILLING MATERIAL (HEMALITE,VERMICULITE) OF UNIT WEIGHT 90 kg/m3 OR 1 kN/m2.

## PRE CAMBERS FOR BEAMS

PRE CAMBERS OF 0.4% OF THE SPAN BE PROVIDED FOR ALL HORIZONTAL STRUCTURAL MEMBERS SPAN EXCEEDING 5M (1.5M FOR CANTILEVER).

## LEGENDS

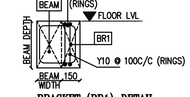
- FULL HEIGHT COLUMN
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- MULLION COLUMN FROM FIRST FLOOR
- COLUMN BRACKET
- 230mm SUNKEN SLAB
- 100mm SUNKEN
- BEAM BRACKET
- TOP REINFORCEMENT
- BOTTOM REINFORCEMENT

## ABBREVIATIONS

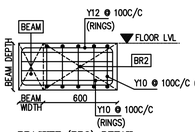
| | |
|---|---|
| Ld | – DEVELOPMENT LENGTH |
| CAB | – CANTILEVER BEAM |
| BR | – BRACKET |
| N.T.S | – NOT TO SCALE |
| LVL | – LEVEL |

## GENERAL NOTES

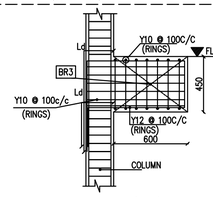
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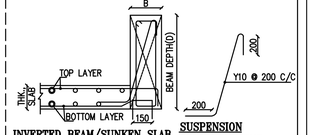

BRACKET (BR1)-DETAIL
(SCALE 1:25)




BRACKET (BR2)-DETAIL
(SCALE 1:25)

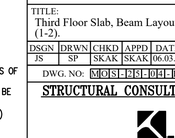



BRACKET (BR3)-DETAIL
(SCALE 1:25)

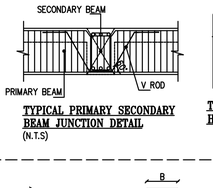



INVERTED BEAM/SUNKEN SLAB WITH CUT OFF REINFORCEMENT

SUSPENSION REINFORCEMENT

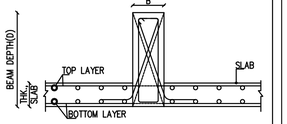



TYPICAL CANTILEVER SLAB SECTION
(N.T.S)

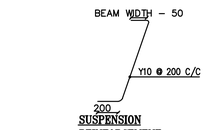



TYPICAL PRIMARY SECONDARY BEAM JUNCTION DETAIL
(N.T.S)

TYPICAL BEAM HOOK DETAILS




INVERTED BEAM/SUNKEN SLAB WITH CONTINUOUS SLAB REINFORCEMENT




SUSPENSION REINFORCEMENT

GOOD FOR CONSTRUCTION

| REF | DESCRIPTION | BY | DATE |
|---|---|---|---|
| R2 | SUNKEN REVISED AS 230mm | DK | 05.06.26 |
| R1 | BEAM DETAILS REVISED IN CORRIDOR PORTION AND B15 BEAM ADDED. | DK | 14.05.26 |

REVISIONS

CLIENT: Morais Architect X.

PROJECT: Proposed 3&2 BHK Apartment (LUXE).

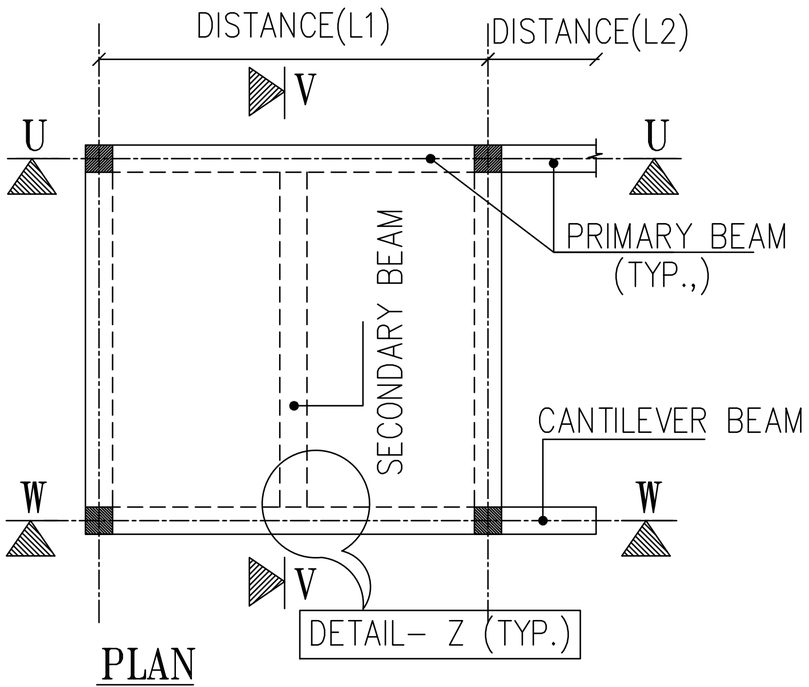
TITLE: Third Floor Slab, Beam Layout and Details (1-2).

| DSGN | DRWN | CHKD | APPD | DATE | SHEET | SCALE |
|---|---|---|---|---|---|---|
| JS | SP | SKAK | SKAK | 06.03.26 | A1 | 1:100 |

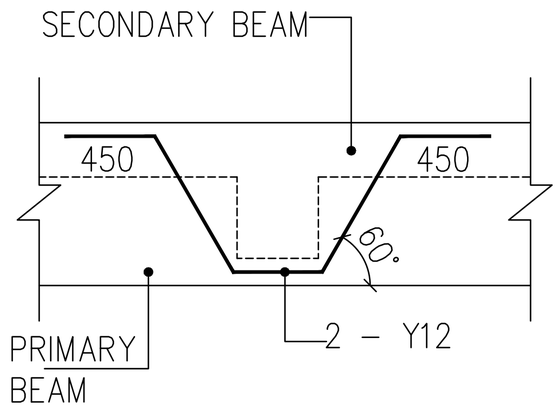
DWG. NO: MO|SI|3|S|DR|RE|IP|R2

STRUCTURAL CONSULTANT

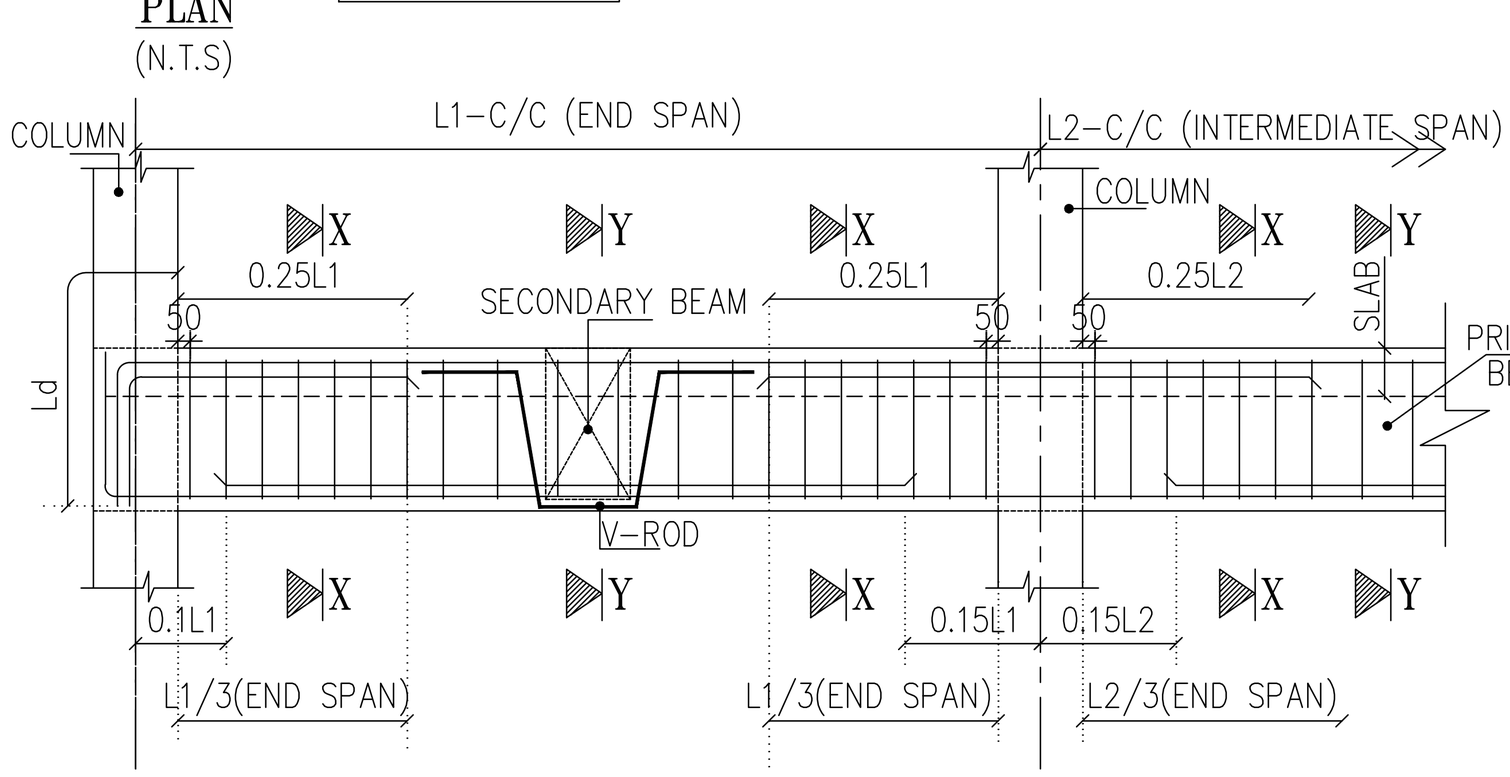
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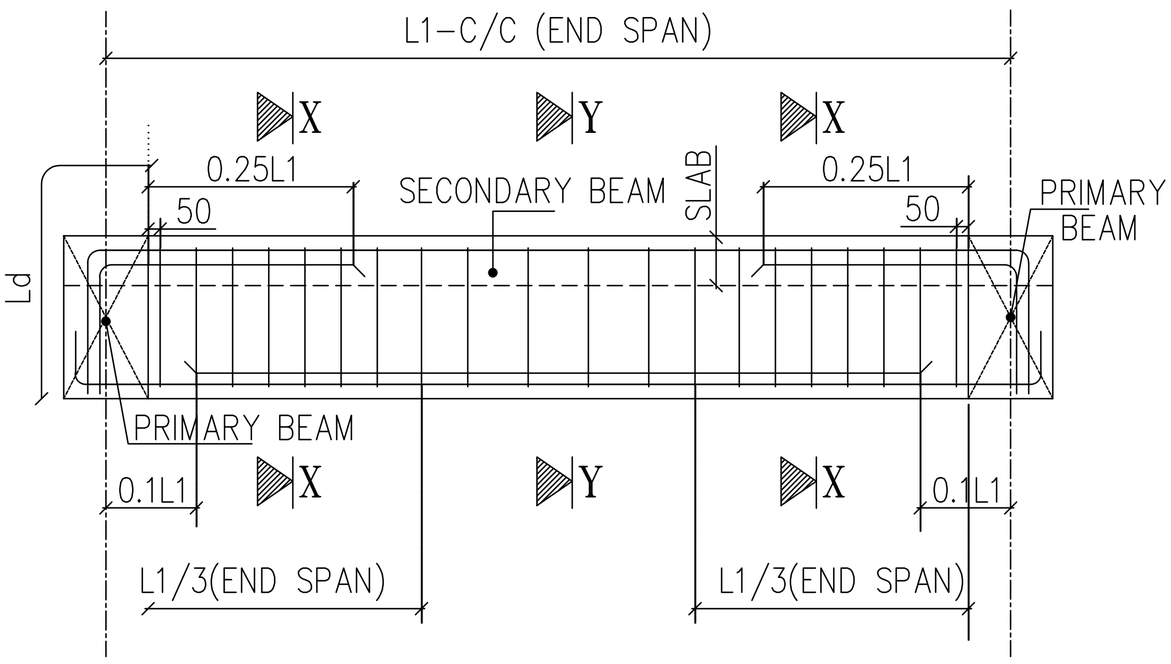

**PLAN**
(N.T.S)



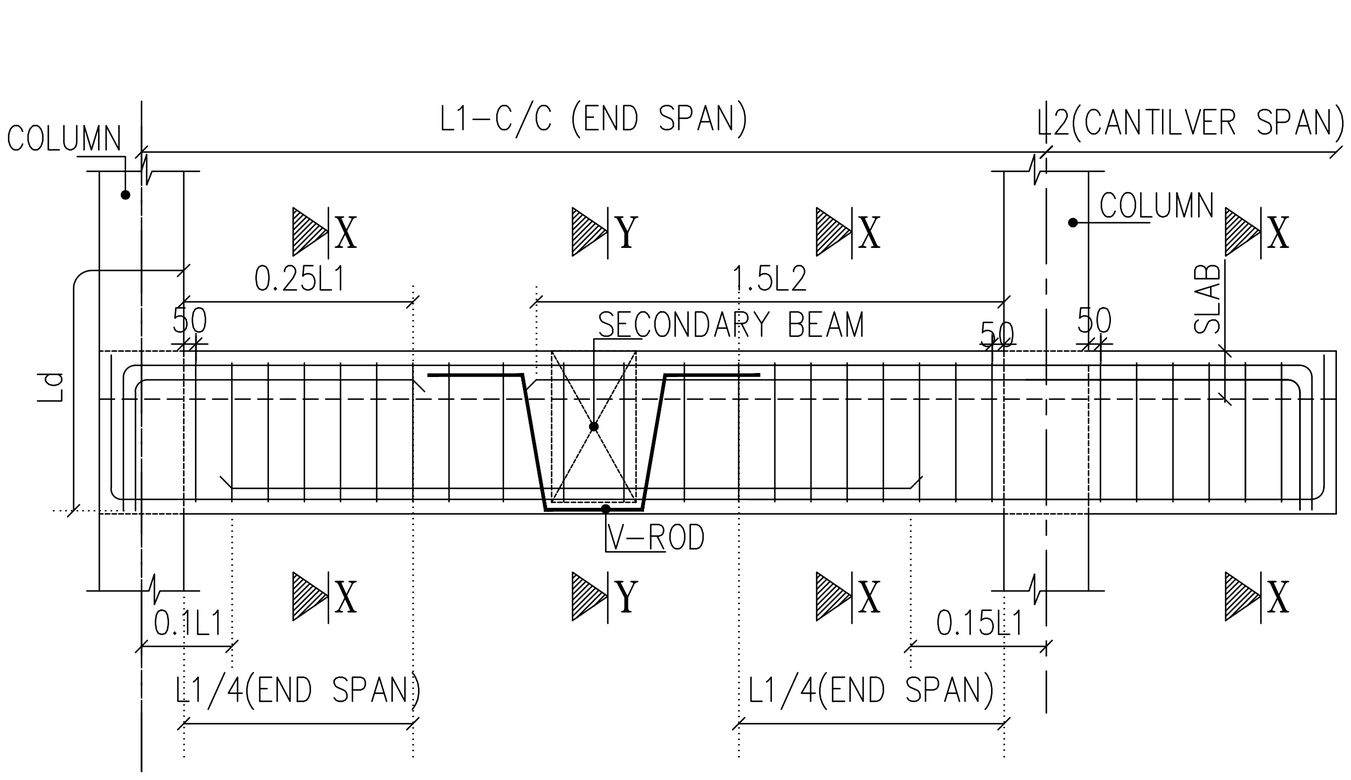

**DETAIL - Z**
**(V-ROD DETAILS)**
(N.T.S)



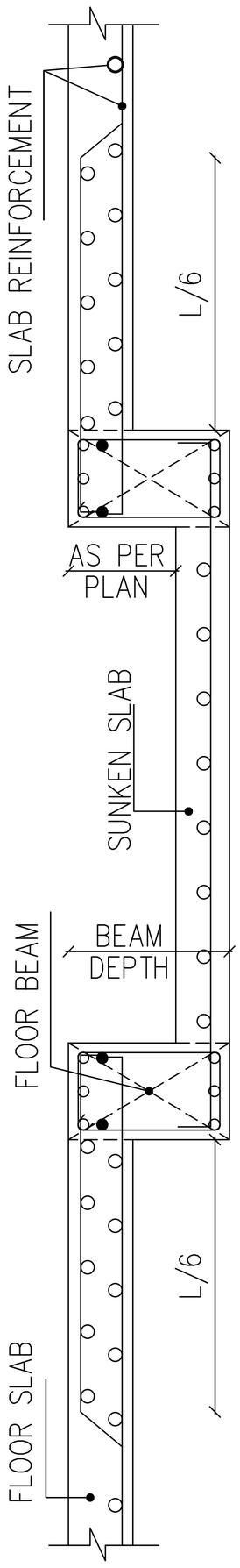

**SECTION U-U**
**TYPICAL BEAM SECTION**
(N.T.S)




**SECTION V-V**
**TYPICAL BEAM SECTION**
(N.T.S)




**SECTION W-W**
**TYPICAL CANTILEVER BEAM SECTION**
(N.T.S)




**TYPICAL SUNKEN SLAB SECTION**
(N.T.S)

**ABBREVIATION**

Ld – DEVELOPMENT LENGTH

**NOTE**

*FOR SECTIONS XX & YY REFER BEAM DETAILS.

GOOD FOR CONSTRUCTION

| REF. | DESCRIPTION | BY | DATE |
|---|---|---|---|
| | REVISIONS | | |

CLIENT:
Morais Architect X.

PROJECT:
Proposed 3&2 BHK Apartment (LUXE).

TITLE:
Third Floor Slab, Beam Layout and Details (2-2).

| DSGN | DRWN | CHKD | APPD | DATE | SHEET | SCALE |
|---|---|---|---|---|---|---|
| JS | SP | SKAK | SKAK | 06.03.26 | A4 | 1:100 |

DWG. NO: MOS-25-04-RC-18-R2


STRUCTURAL CONSULTANT

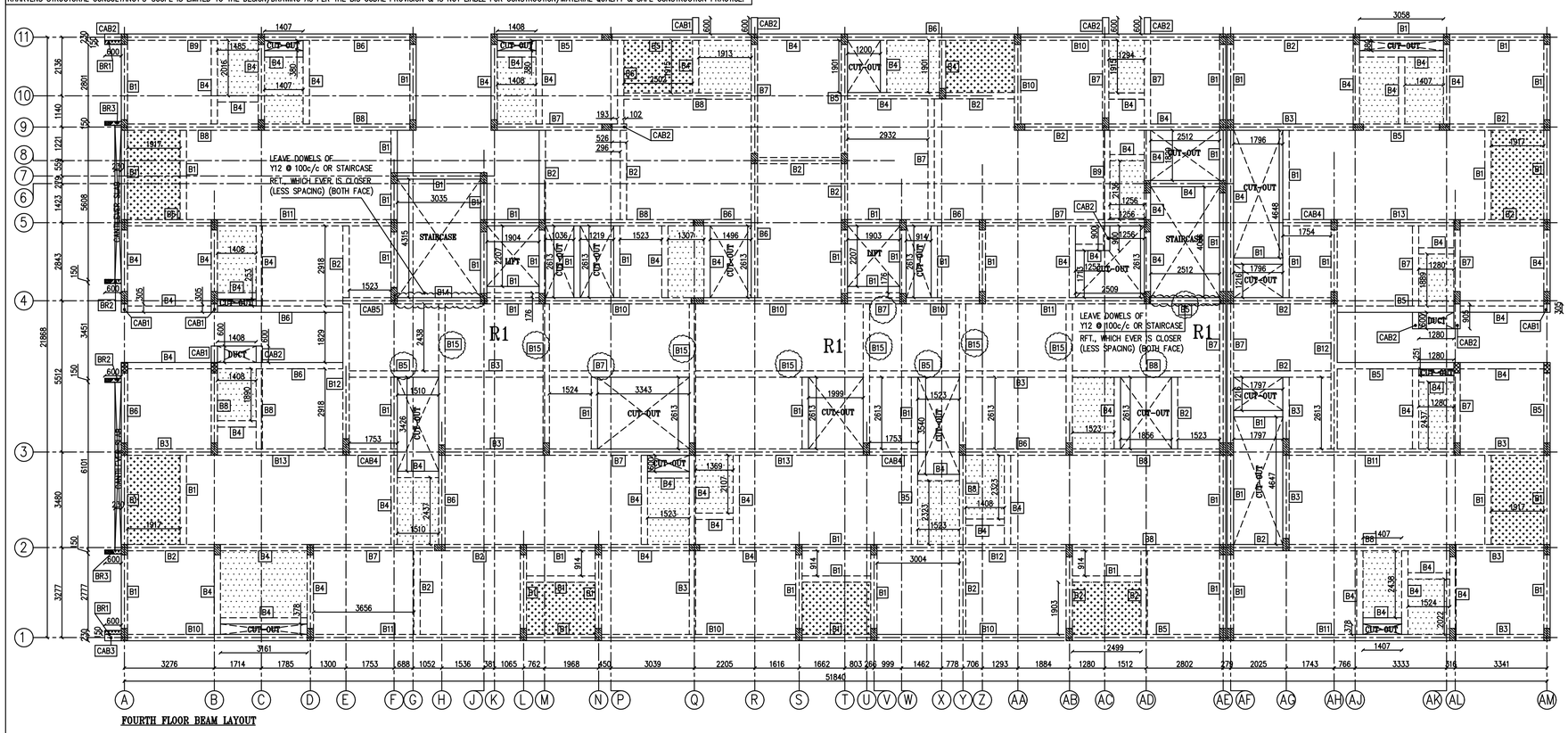
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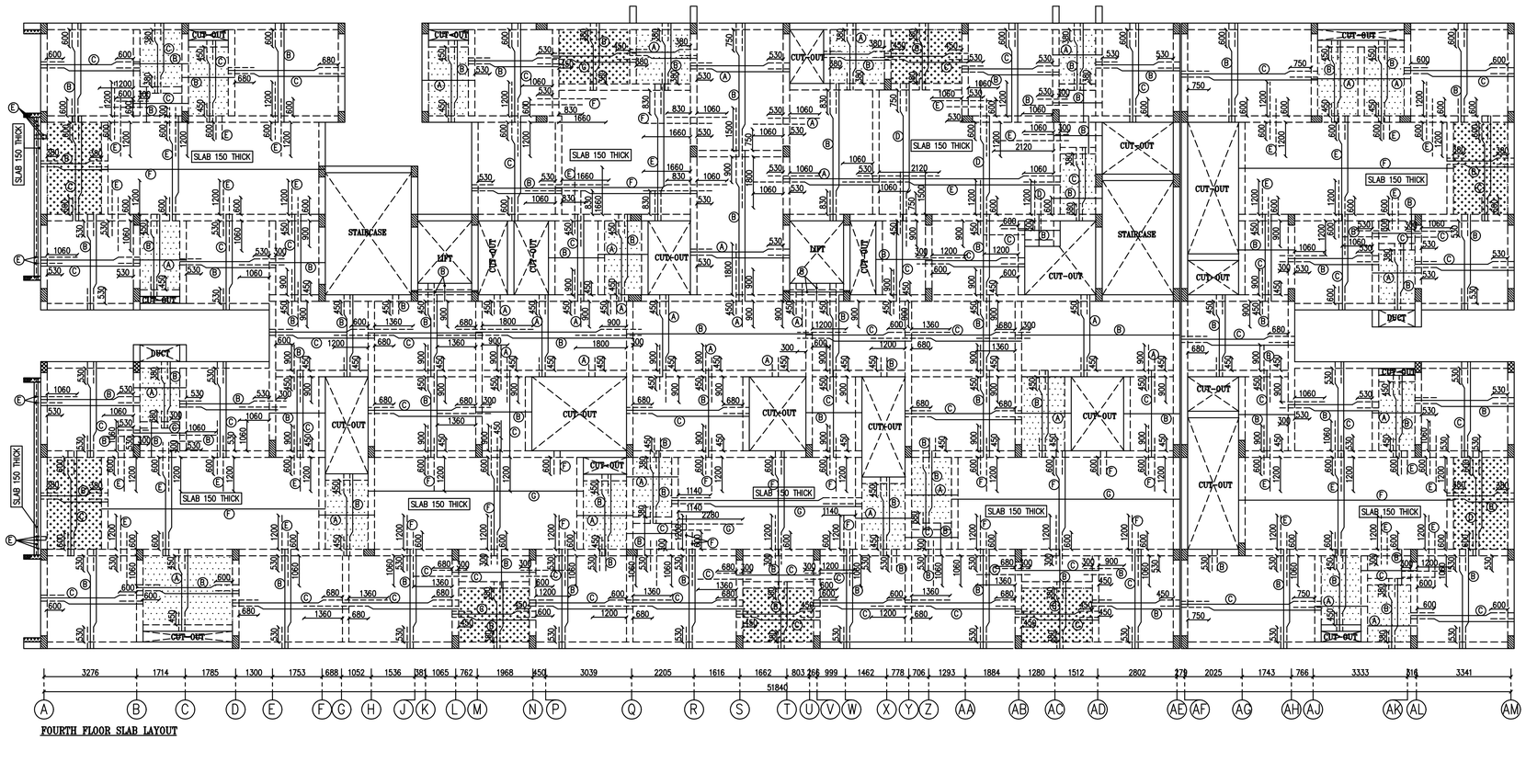


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FOURTH FLOOR BEAM LAYOUT




FOURTH FLOOR SLAB LAYOUT

## BEAM DETAILS

| S No | Beam No | Beam Size | Section @ XX End span | Section @ YY Mid span |
|---|---|---|---|---|
| 1 | B1 | 230x300 | 3 – Y12<br>Y8 @ 175c/c<br>3 – Y12 | |
| 2 | B2 | 230x380 | 3 – Y12<br>Y8 @ 175c/c<br>3 – Y12 | |
| 3 | B3 | 230x380 | 2 – Y12 +<br>2 – Y16 (EXT)•<br>Y8 @ 150c/c<br>2 – Y12 | 2 – Y12<br>Y8 @ 175c/c<br>2 – Y12 +<br>2 – Y16 (EXT)• |
| 4 | B4/ CAB1 | 230x450 | 2 – Y16<br>Y8 @ 150c/c<br>2 – Y16 | |
| 5 | B5 | 230x450 | 3 – Y12 +<br>2 – Y12 (EXT)•<br>Y8 @ 150c/c<br>3 – Y12 | 3 – Y12<br>Y8 @ 175c/c<br>3 – Y12 +<br>2 – Y12 (EXT)• |
| 6 | B6 | 230x450 | 2 – Y16<br>2 – Y12 (EXT)•<br>Y8 @ 150c/c<br>2 – Y16 | 2 – Y16<br>Y8 @ 175c/c<br>2 – Y16 +<br>2 – Y12 (EXT)• |
| 7 | B7 | 230x450 | 2 – Y16 +<br>2 – Y16 (EXT)•<br>Y8 @ 150c/c<br>2 – Y16 | 2 – Y16<br>Y8 @ 175c/c<br>2 – Y16 +<br>2 – Y16 (EXT)• |
| 8 | B8 | 230x450 | 2 – Y16 +<br>3 – Y16 (EXT)•<br>Y8 @ 150c/c<br>2 – Y16 | 2 – Y16<br>Y8 @ 175c/c<br>2 – Y16 +<br>3 – Y16 (EXT)• |
| 9 | B9/ CAB2 | 230x450 | 4 – Y16<br>Y8 @ 150c/c<br>2 – Y16 | |
| 10 | B10/ CAB3 | 230x600 | 3 – Y16<br>Y8 @ 150c/c<br>3 – Y16 | |
| 11 | B11 | 230x600 | 2 – Y16 +<br>2 – Y16 (EXT)•<br>Y8 @ 150c/c<br>2 – Y16 | 2 – Y16<br>Y8 @ 175c/c<br>2 – Y16 +<br>2 – Y16 (EXT)• |
| 12 | B12 | 230x600 | 2 – Y16 +<br>3 – Y16 (EXT)•<br>Y8 @ 150c/c<br>2 – Y16 | 2 – Y16<br>Y8 @ 175c/c<br>2 – Y16 +<br>3 – Y16 (EXT)• |
| 13 | B13/ CAB4 | 230x600 | 5 – Y16<br>Y8 @ 150c/c<br>3 – Y16 | |
| 14 | B14/ CAB5 | 230x600 | 4 – Y20 +<br>2 – Y16•<br>Y8 @ 150c/c<br>2 – Y20 | |
| 15 | B15 | 230x450 | 4 – Y20<br>Y8 @ 125c/c<br>4 – Y20 | |

## SLAB DETAILS

THICKNESS :125 (UNLESS NOTED)

| | | |
|---|---|---|
| A | Y8 @ | 150 C/C |
| B | Y8 @ | 175 C/C |
| C | Y8 @ | 200 C/C |
| D | Y10 @ | 125 C/C |
| E | Y10 @ | 150 C/C |
| F | Y10 @ | 175 C/C |
| G | Y10 @ | 200 C/C |

## LIVE LOAD SCHEDULE

| DESCRIPTION | LIVE LOAD (kN/m²) |
|---|---|
| FOURTH FLOOR | 2 |

## NOTE

* ALL SUNKEN SLABS SHOULD BE FILLED ONLY WITH LIGHT WEIGHT FILLING MATERIAL (HEMALITE,VERMICULITE) OF UNIT WEIGHT 90 kg/m3 OR 1 kN/m2.

## PRE CAMBERS FOR BEAMS

PRE CAMBERS OF 0.4% OF THE SPAN BE PROVIDED FOR ALL HORIZONTAL STRUCTURAL MEMBERS SPAN EXCEEDING 5M (1.5M FOR CANTILEVER).

## LEGENDS

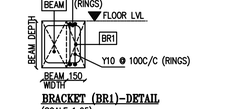
- FULL HEIGHT COLUMN
- FLOATING COLUMN FROM FIRST FLOOR
- MULLION COLUMN FROM FIRST FLOOR
- COLUMN BRACKET
- 230mm SUNKEN SLAB
- 100mm SUNKEN
- BEAM BRACKET
- TOP REINFORCEMENT
- BOTTOM REINFORCEMENT

## ABBREVIATIONS

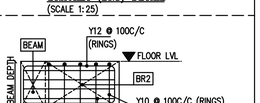
| | |
|---|---|
| Ld | – DEVELOPMENT LENGTH |
| CAB | – CANTILEVER BEAM |
| BR | – BRACKET |
| N.T.S | – NOT TO SCALE |
| LVL | – LEVEL |

## GENERAL NOTES

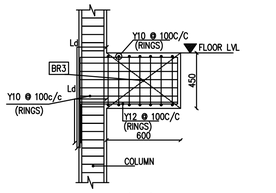
1. THIS DRAWING SHOULD BE READ ALONG WITH ARCHITECTURAL DRAWINGS.
2. ALL DIMENSIONS ARE IN MILLIMETERS.
3. ALL STRUCTURAL CONCRETE SHALL BE OF M25(1:1.2) GRADE CONFORMING TO IS:456.
4. ALL REINFORCEMENT(Y) SHALL BE H.Y.S.D. BARS OF GRADE Fe 550 CONFORMING TO IS:1786.
5. THE CLEAR COVER FOR REINFORCEMENT SHALL BE 12.5mm FOR SLAB & 25mm FOR BEAM.
6. LAP LENGTH (Ld) SHALL BE 50*D (DIA OF BAR) FOR ALL BARS.
7. NOT MORE THAN 50% OF REINFORCEMENT SHALL BE LAPPED AT ANY PARTICULAR JUNCTION.
8. THIS DRAWING IS NOT TO BE SCALED ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED.
9. MINIMUM DEPTH OF SUNKEN SHALL BE 230mm.
10. ALL SLABS SHALL BE PROVIDED WITH TOP DISTRIBUTORS OF Y8 @ 200 C/C.
11. SPACER BAR TO BE PROVIDED IN BETWEEN TWO LAYERS OF REINFORCEMENT OF SAME DIA(MIN.,20mm) AT EVERY 1000 C/C.
12. THE SITE IN-CHARGE SHALL CHECK AND VERIFY ALL DIMENSIONS ON SITE BEFORE COMMENCEMENT OF WORKS AND ANY DISCREPANCIES SHALL BE REPORTED TO THE STRUCTURAL ENGINEER BEFORE EXECUTION.



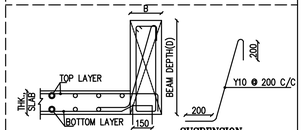

BRACKET (BR1)-DETAIL
(SCALE 1:25)




BRACKET (BR2)-DETAIL
(SCALE 1:25)

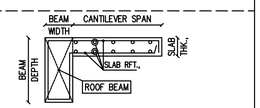



BRACKET (BR3)-DETAIL
(SCALE 1:25)

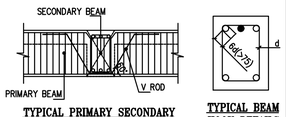



INVERTED BEAM/SUNKEN SLAB WITH CUT OFF REINFORCEMENT

SUSPENSION REINFORCEMENT

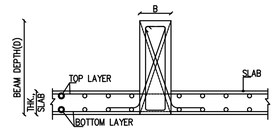



TYPICAL CANTILEVER SLAB SECTION
(N.T.S)

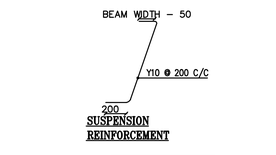



TYPICAL PRIMARY SECONDARY BEAM JUNCTION DETAIL
(N.T.S)

TYPICAL BEAM HOOK DETAILS




INVERTED BEAM/SUNKEN SLAB WITH CONTINUOUS SLAB REINFORCEMENT




SUSPENSION REINFORCEMENT

GOOD FOR CONSTRUCTION

| REF | DESCRIPTION | BY | DATE |
|---|---|---|---|
| R2 | SUNKEN REVISED AS 230mm | DK | 05.06.26 |
| R1 | BEAM DETAILS REVISED IN CORRIDOR PORTION AND B15 BEAM ADDED. | DK | 14.05.26 |

REVISIONS

CLIENT: Morais Architect X.

PROJECT: Proposed 3&2 BHK Apartment (LUXE).

TITLE: Fourth Floor Slab, Beam Layout and Details (1-2).

| DSGN | DRWN | CHKD | APPD | DATE | SHEET | SCALE |
|---|---|---|---|---|---|---|
| JS | SP | SKAK | SKAK | 06.03.26 | A1 | 1:100 |

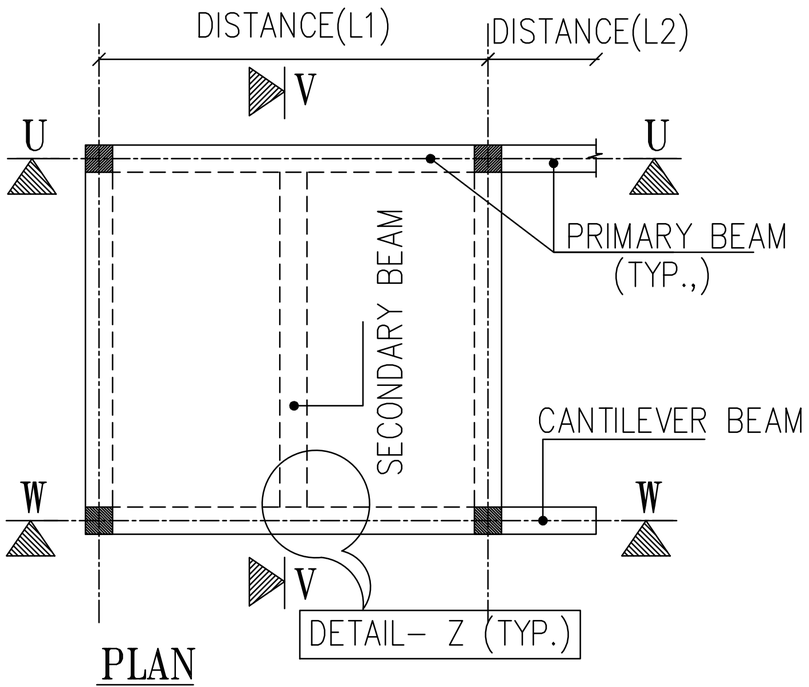
DWG. NO. MOIS-2BH-104-RK-FIRST-RE

STRUCTURAL CONSULTANT

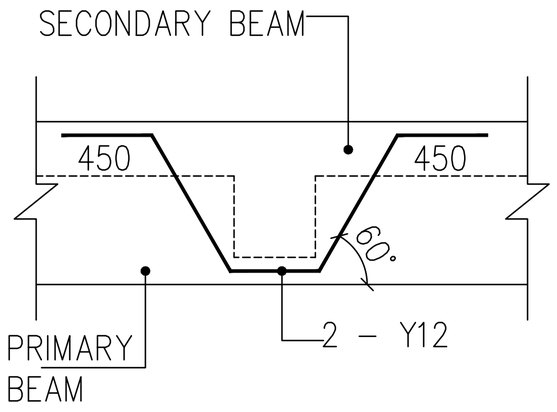
KAARVENS

Er. S.K.ARUN KAMARAJ, ME (Struct.),
KAARVENS STRUCTURAL CONSULTANCY,
41, BR NAGAR, 3RD STREET,
KOTHARI LAYOUT, RAMANATHAPURAM,
COIMBATORE-641005,
M:+91-9894215019, M:+91-8270005019
E-MAIL : skarun@kaarvens.com
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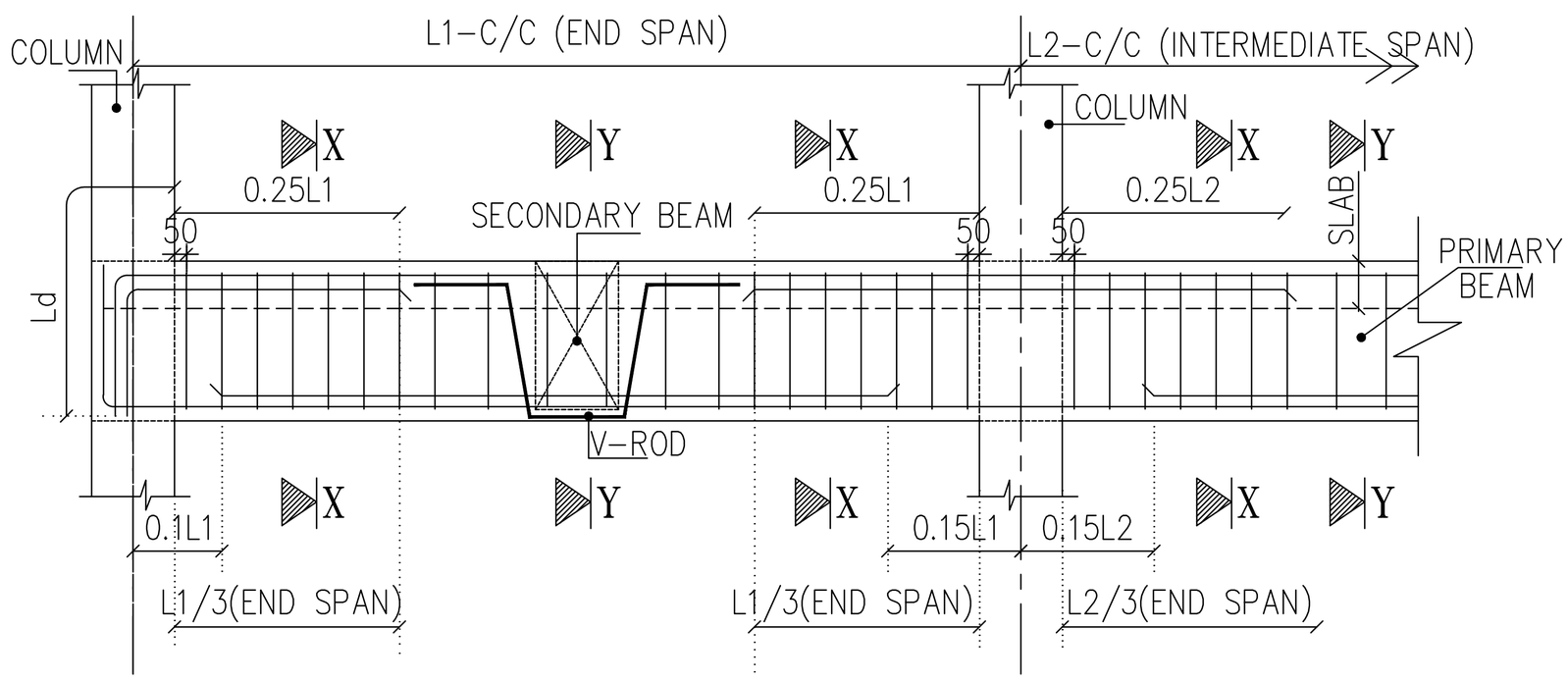
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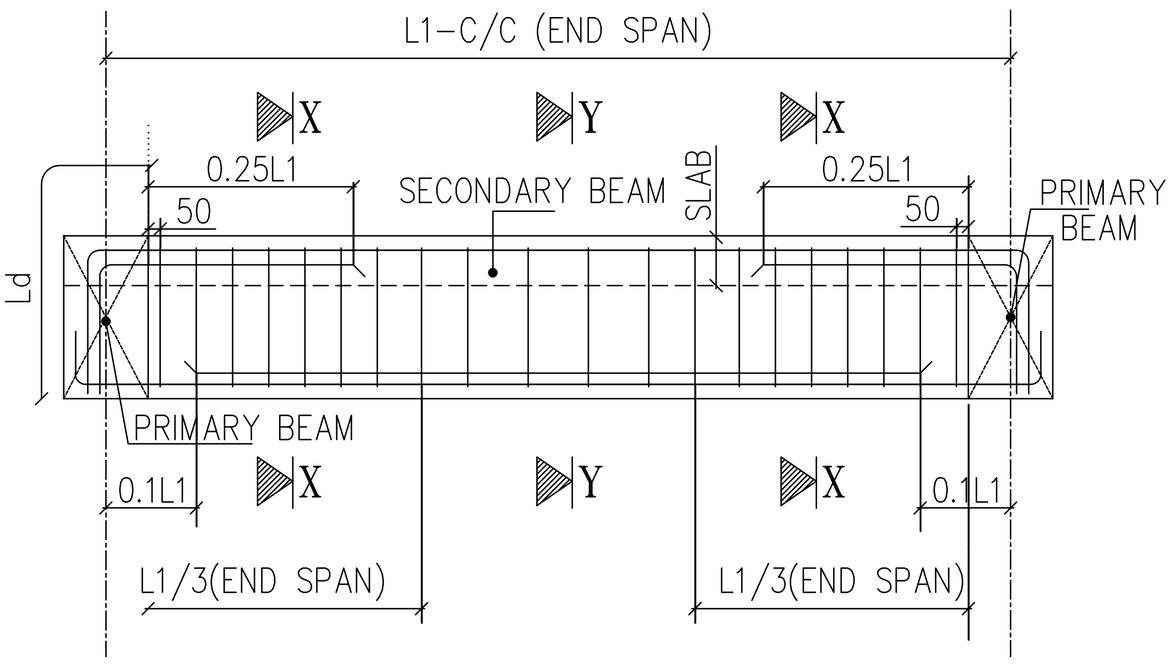

**PLAN**
(N.T.S)



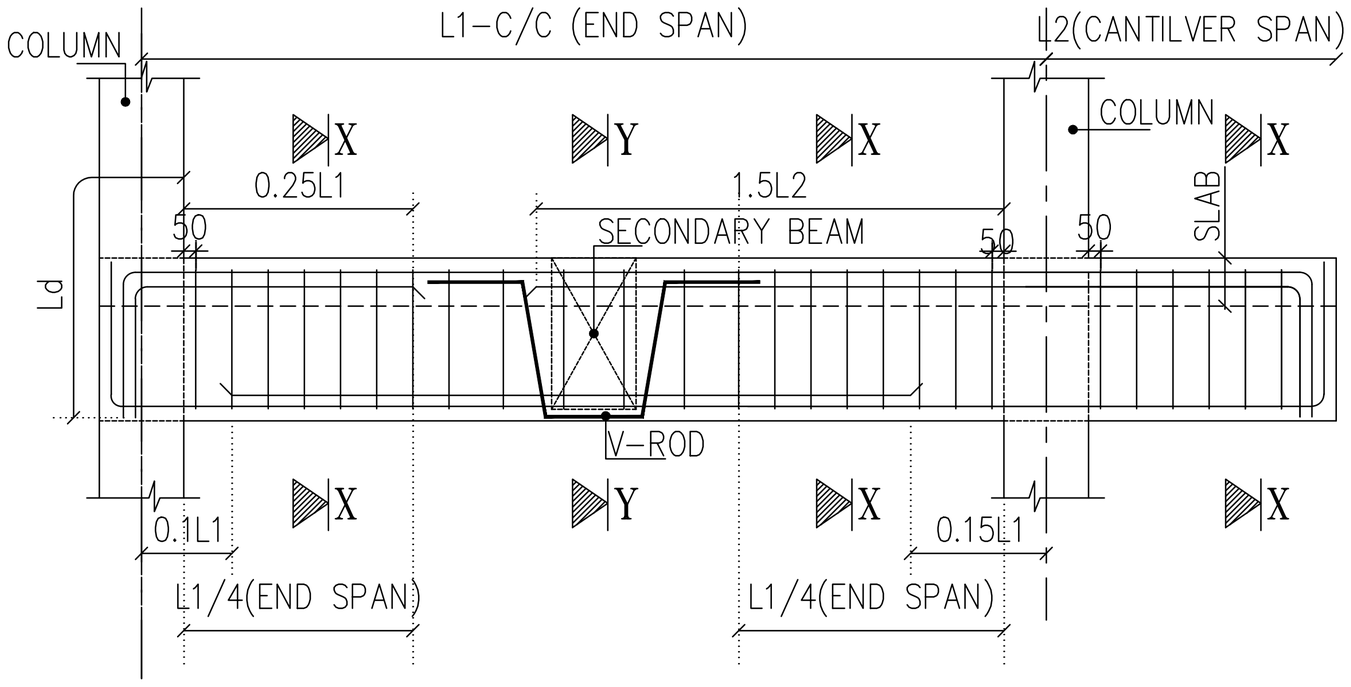

**DETAIL - Z**
**(V-ROD DETAILS)**
(N.T.S)



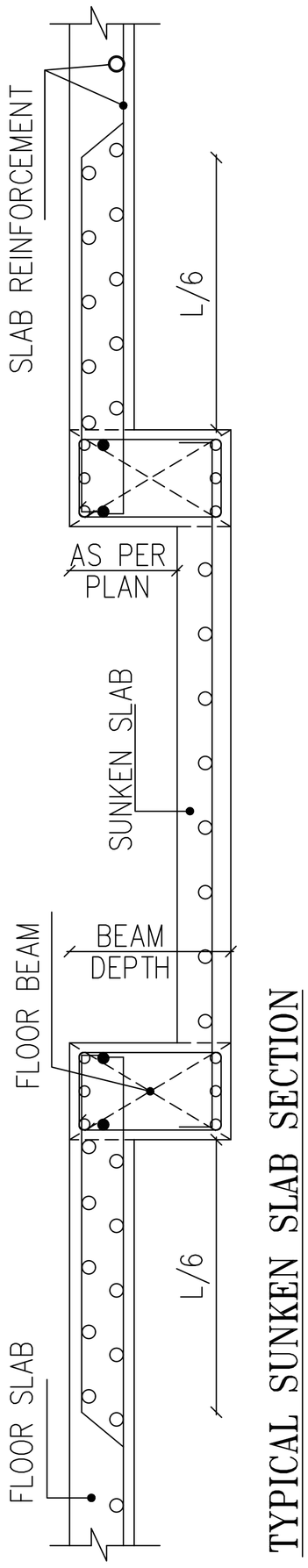

**SECTION U-U**
**TYPICAL BEAM SECTION**
(N.T.S)




**SECTION V-V**
**TYPICAL BEAM SECTION**
(N.T.S)




**SECTION W-W**
**TYPICAL CANTILEVER BEAM SECTION**
(N.T.S)




**TYPICAL SUNKEN SLAB SECTION**
(N.T.S)

**ABBREVIATION**

Ld – DEVELOPMENT LENGTH

**NOTE**

*FOR SECTIONS XX & YY REFER BEAM DETAILS.

GOOD FOR CONSTRUCTION

| REF. | DESCRIPTION | BY | DATE |
|---|---|---|---|
| | REVISIONS | | |

CLIENT:
Morais Architect X.

PROJECT:
Proposed 3&2 BHK Apartment (LUXE).

TITLE:
Fourth Floor Slab, Beam Layout and Details (2-2).

| DSGN | DRWN | CHKD | APPD | DATE | SHEET | SCALE |
|---|---|---|---|---|---|---|
| JS | SP | SKAK | SKAK | 06.03.26 | A4 | 1:100 |

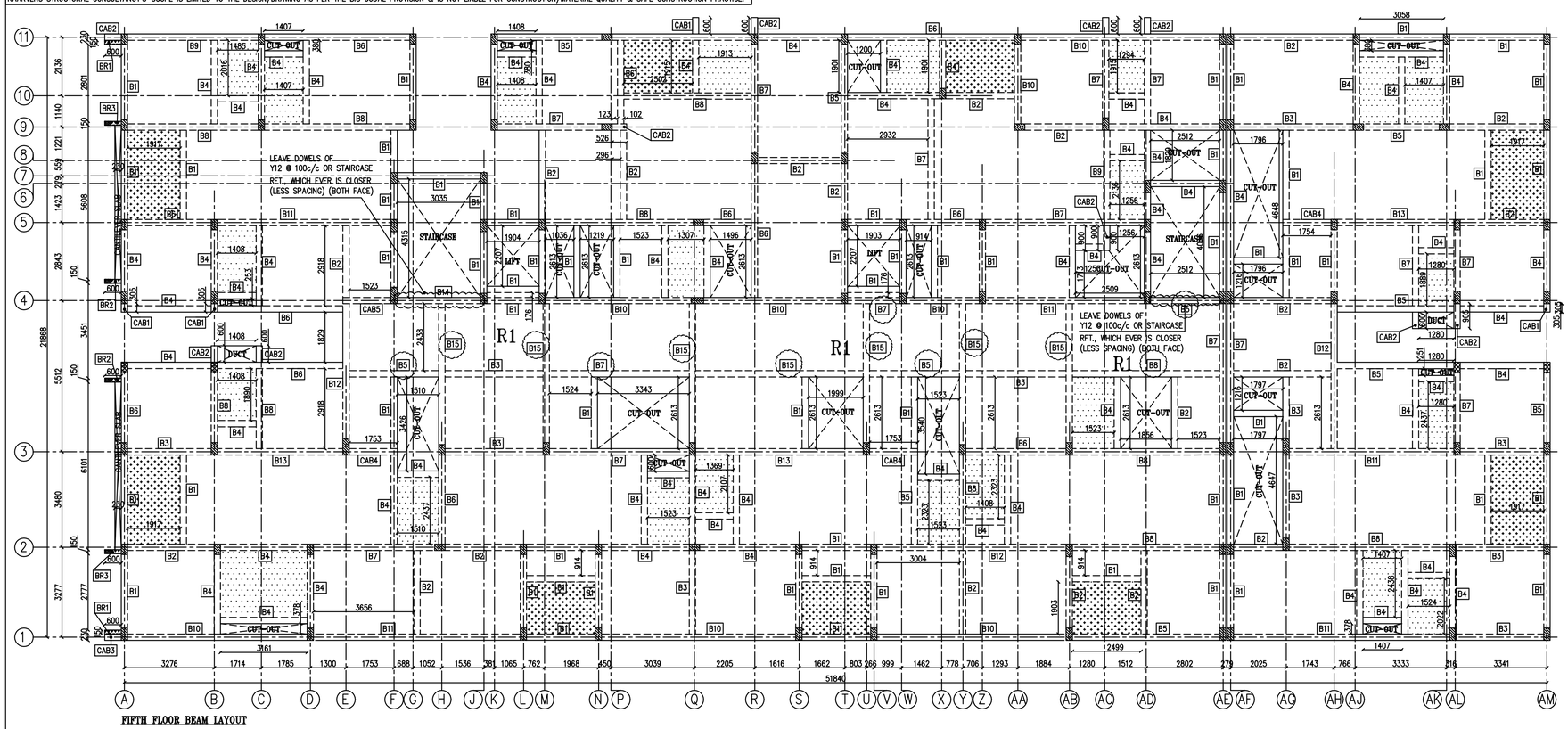
DWG. NO: MOS-25-04-RC-20-R2

**STRUCTURAL CONSULTANT**

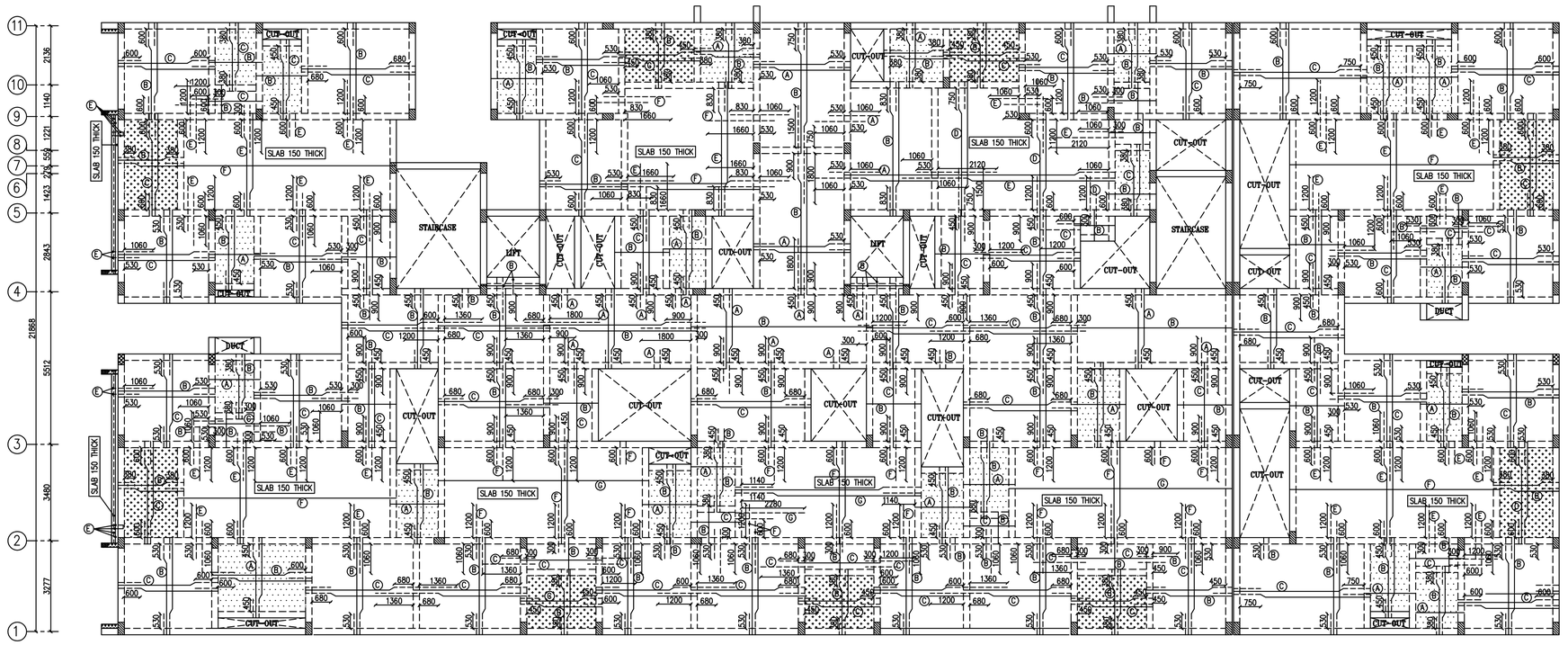
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FIFTH FLOOR BEAM LAYOUT




FIFTH FLOOR SLAB LAYOUT

## BEAM DETAILS

| S No | Beam No | Beam Size | Section @ XX End span | Section @ YY Mid span |
|---|---|---|---|---|
| 1 | B1 | 230x300 | 3 – Y12<br>Y8 @ 175c/c<br>3 – Y12 | |
| 2 | B2 | 230x380 | 3 – Y12<br>Y8 @ 175c/c<br>3 – Y12 | |
| 3 | B3 | 230x380 | 2 – Y12 +<br>2 – Y16 (EXT)•<br>Y8 @ 150c/c<br>2 – Y12 | 2 – Y12<br>Y8 @ 175c/c<br>2 – Y12 +<br>2 – Y16 (EXT)• |
| 4 | B4/ CAB1 | 230x450 | 2 – Y16<br>Y8 @ 150c/c<br>2 – Y16 | |
| 5 | B5 | 230x450 | 3 – Y12 +<br>2 – Y12 (EXT)•<br>Y8 @ 150c/c<br>3 – Y12 | 3 – Y12<br>Y8 @ 175c/c<br>3 – Y12 +<br>2 – Y12 (EXT)• |
| 6 | B6 | 230x450 | 2 – Y16<br>2 – Y12 (EXT)•<br>Y8 @ 150c/c<br>2 – Y16 | 2 – Y16<br>Y8 @ 175c/c<br>2 – Y16 +<br>2 – Y12 (EXT)• |
| 7 | B7 | 230x450 | 2 – Y16 +<br>2 – Y16 (EXT)•<br>Y8 @ 150c/c<br>2 – Y16 | 2 – Y16<br>Y8 @ 175c/c<br>2 – Y16 +<br>2 – Y16 (EXT)• |
| 8 | B8 | 230x450 | 2 – Y16 +<br>3 – Y16 (EXT)•<br>Y8 @ 150c/c<br>2 – Y16 | 2 – Y16<br>Y8 @ 175c/c<br>2 – Y16 +<br>3 – Y16 (EXT)• |
| 9 | B9/ CAB2 | 230x450 | 4 – Y16<br>Y8 @ 150c/c<br>2 – Y16 | |
| 10 | B10/ CAB3 | 230x600 | 3 – Y16<br>Y8 @ 150c/c<br>3 – Y16 | |
| 11 | B11 | 230x600 | 2 – Y16 +<br>2 – Y16 (EXT)•<br>Y8 @ 150c/c<br>2 – Y16 | 2 – Y16<br>Y8 @ 175c/c<br>2 – Y16 +<br>2 – Y16 (EXT)• |
| 12 | B12 | 230x600 | 2 – Y16 +<br>3 – Y16 (EXT)•<br>Y8 @ 150c/c<br>2 – Y16 | 2 – Y16<br>Y8 @ 175c/c<br>2 – Y16 +<br>3 – Y16 (EXT)• |
| 13 | B13/ CAB4 | 230x600 | 5 – Y16<br>Y8 @ 150c/c<br>3 – Y16 | |
| 14 | B14/ CAB5 | 230x600 | 4 – Y20 +<br>2 – Y16•<br>Y8 @ 150c/c<br>2 – Y20 | |
| 15 | B15 | 230x450 | 4 – Y20<br>Y8 @ 125c/c<br>4 – Y20 | |

### PRE CAMBERS FOR BEAMS
PRE CAMBERS OF 0.4% OF THE SPAN BE PROVIDED FOR ALL HORIZONTAL STRUCTURAL MEMBERS SPAN EXCEEDING 5M (1.5M FOR CANTILEVER).

### SLAB DETAILS
THICKNESS :125 (UNLESS NOTED)

| | |
|---|---|
| A | Y8 @ 150 C/C |
| B | Y8 @ 175 C/C |
| C | Y8 @ 200 C/C |
| D | Y10 @ 125 C/C |
| E | Y10 @ 150 C/C |
| F | Y10 @ 175 C/C |
| G | Y10 @ 200 C/C |

### LIVE LOAD SCHEDULE

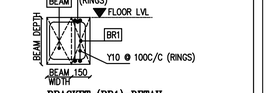
| DESCRIPTION | LIVE LOAD (kN/m²) |
|---|---|
| FIFTH FLOOR | 2 |

### NOTE
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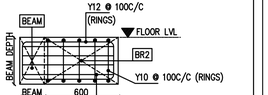
### LEGENDS
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- MULLION COLUMN FROM FIRST FLOOR
- COLUMN BRACKET
- 230mm SUNKEN SLAB
- 100mm SUNKEN
- BEAM BRACKET
- TOP REINFORCEMENT
- BOTTOM REINFORCEMENT

### ABBREVIATIONS
Ld – DEVELOPMENT LENGTH
CAB – CANTILEVER BEAM
BR – BRACKET
N.T.S – NOT TO SCALE
LVL – LEVEL

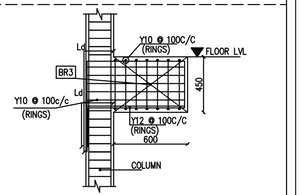
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12. THE SITE IN-CHARGE SHALL CHECK AND VERIFY ALL DIMENSIONS ON SITE BEFORE COMMENCEMENT OF WORKS AND ANY DISCREPANCIES SHALL BE REPORTED TO THE STRUCTURAL ENGINEER BEFORE EXECUTION.



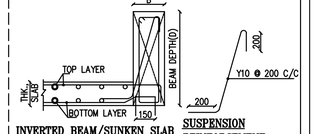

BRACKET (BR1)–DETAIL
(SCALE 1:25)




BRACKET (BR2)–DETAIL
(SCALE 1:25)

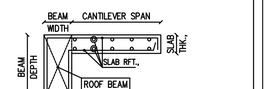



BRACKET (BR3)–DETAIL
(SCALE 1:25)

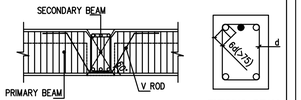



INVERTED BEAM/SUNKEN SLAB WITH CUT OFF REINFORCEMENT

SUSPENSION REINFORCEMENT

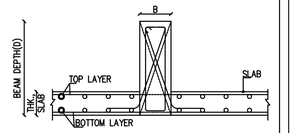



TYPICAL CANTILEVER SLAB SECTION
(N.T.S)

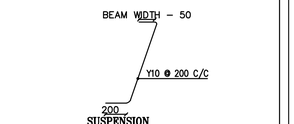



TYPICAL PRIMARY SECONDARY BEAM JUNCTION DETAIL
(N.T.S)

TYPICAL BEAM HOOK DETAILS




INVERTED BEAM/SUNKEN SLAB WITH CONTINUOUS SLAB REINFORCEMENT




SUSPENSION REINFORCEMENT

GOOD FOR CONSTRUCTION

| REF | DESCRIPTION | BY | DATE |
|---|---|---|---|
| R2 | SUNKEN REVISED AS 230mm | DK | 05.06.26 |
| R1 | BEAM DETAILS REVISED IN CORRIDOR PORTION AND B15 BEAM ADDED. | DK | 14.05.26 |

REVISIONS

CLIENT: Morais Architect X.

PROJECT: Proposed 3&2 BHK Apartment (LUXE).

TITLE: Fifth Floor Slab, Beam Layout and Details (1-2).

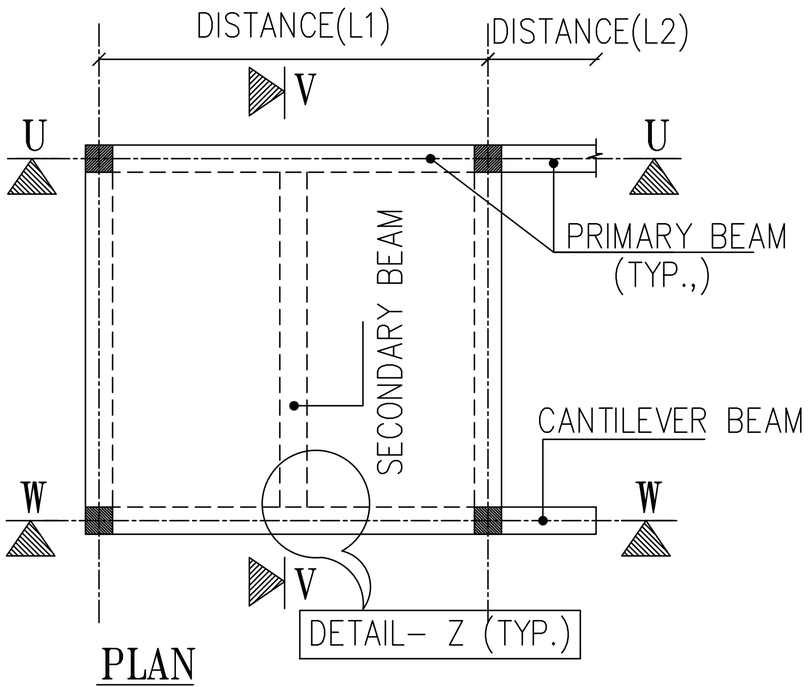
| DSGN | DRWN | CHKD | APPD | DATE | SHEET | SCALE |
|---|---|---|---|---|---|---|
| JS | SP | SKAK | SKAK | 06.03.26 | A1 | 1:100 |

DWG. NO: MORI-SE-DRG-R1-STL-R2

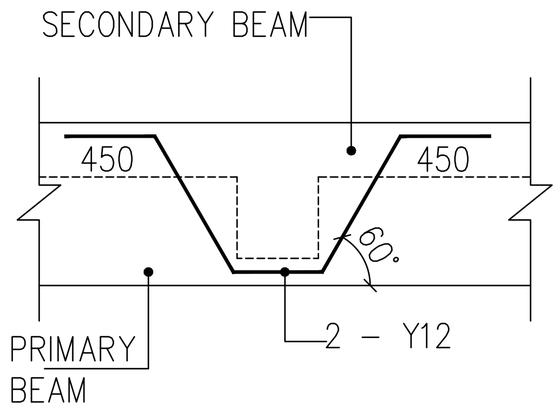
STRUCTURAL CONSULTANT

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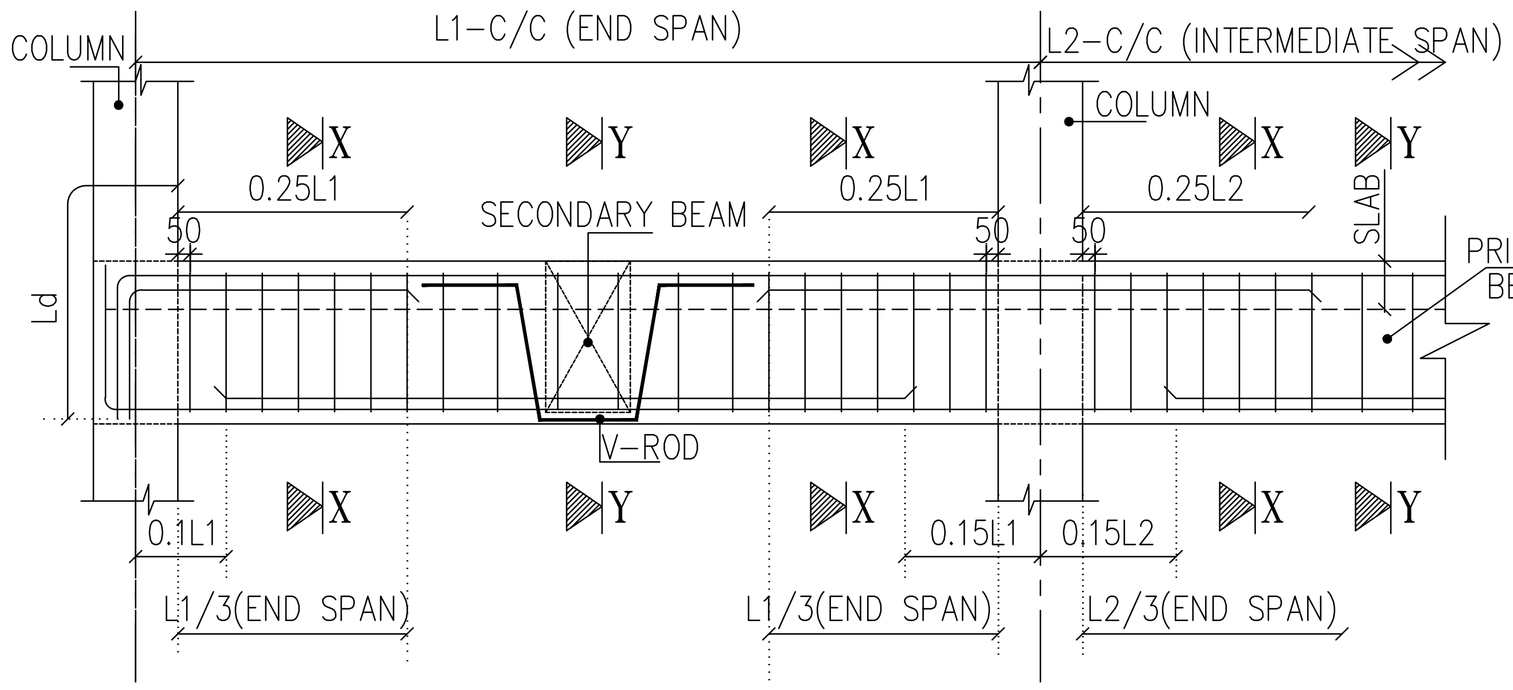
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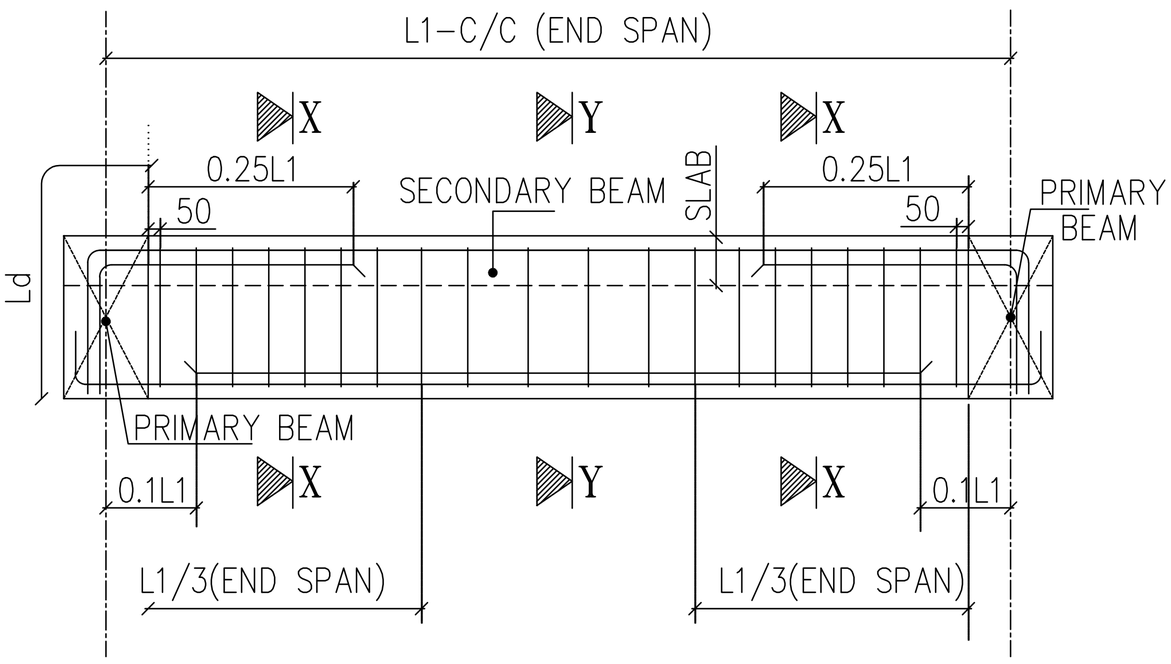

## PLAN
(N.T.S)



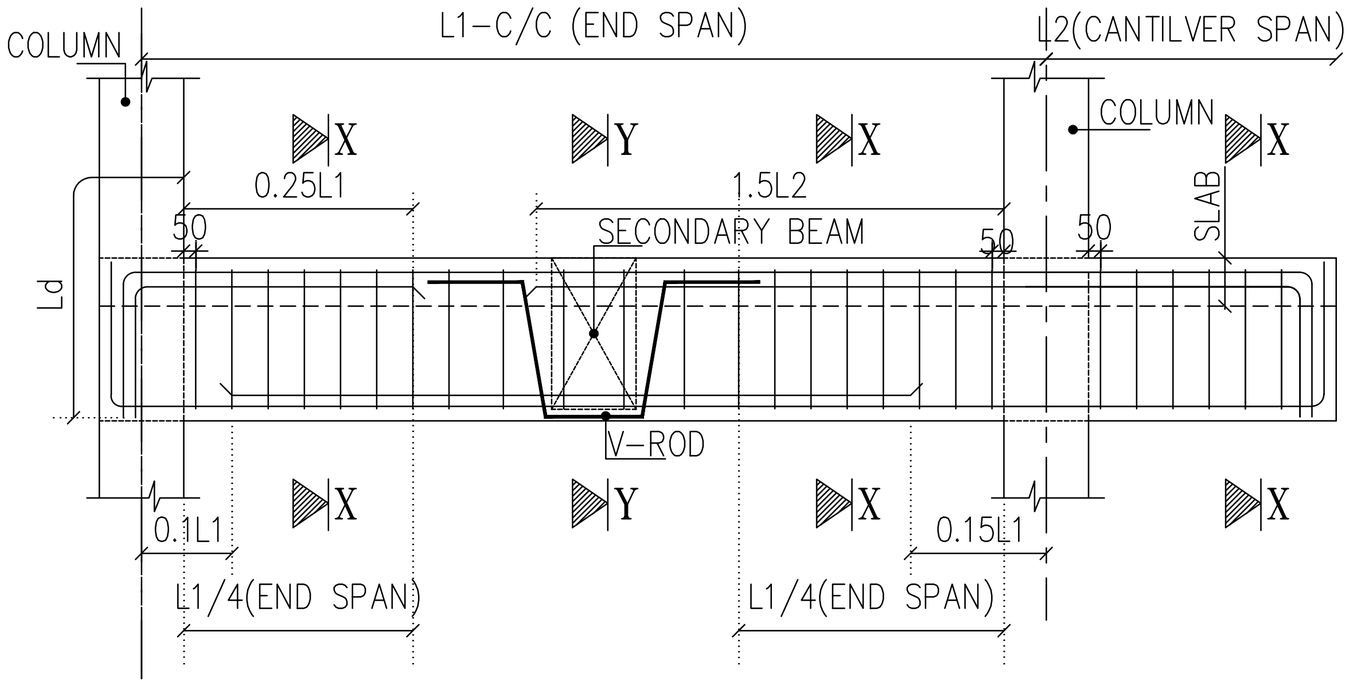

## DETAIL - Z
## (V-ROD DETAILS)
(N.T.S)



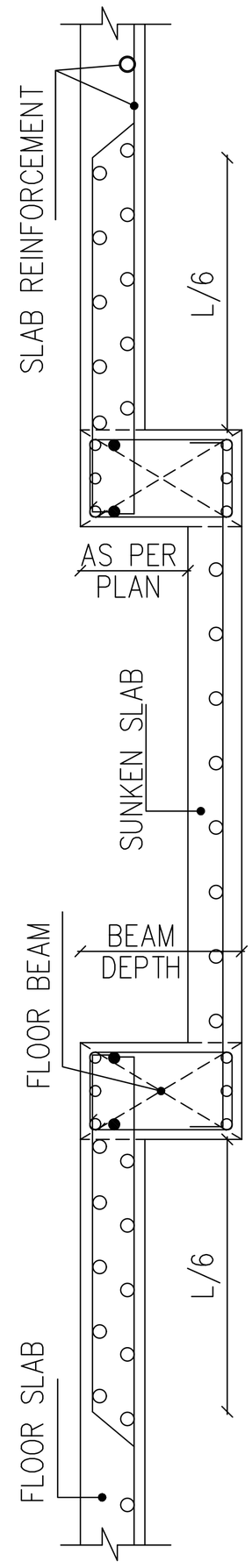

## SECTION U-U
## TYPICAL BEAM SECTION
(N.T.S)




## SECTION V-V
## TYPICAL BEAM SECTION
(N.T.S)




## SECTION W-W
## TYPICAL CANTILEVER BEAM SECTION
(N.T.S)




## TYPICAL SUNKEN SLAB SECTION
(N.T.S)

## ABBREVIATION
Ld - DEVELOPMENT LENGTH

## NOTE
*FOR SECTIONS XX & YY REFER BEAM DETAILS.

GOOD FOR CONSTRUCTION

| REF. | DESCRIPTION | BY | DATE |
|---|---|---|---|
| | REVISIONS | | |

CLIENT:
Morais Architect X.

PROJECT:
Proposed 3&2 BHK Apartment (LUXE).

TITLE:
Fifth Floor Slab, Beam Layout and Details (2-2).

| DSGN | DRWN | CHKD | APPD | DATE | SHEET | SCALE |
|---|---|---|---|---|---|---|
| JS | SP | SKAK | SKAK | 06.03.26 | A4 | 1:100 |

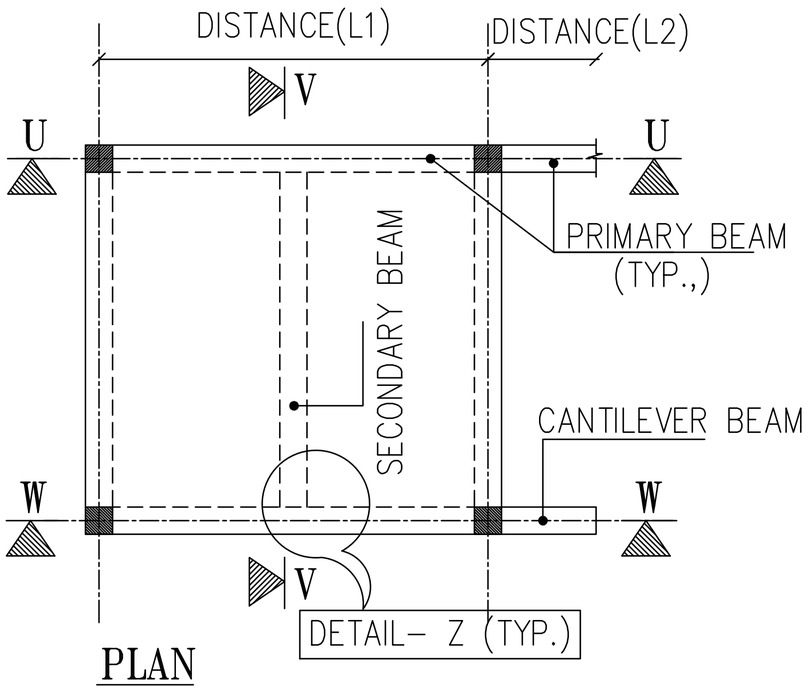
DWG. NO: MOS-25-04-RC-22-R2

STRUCTURAL CONSULTANT

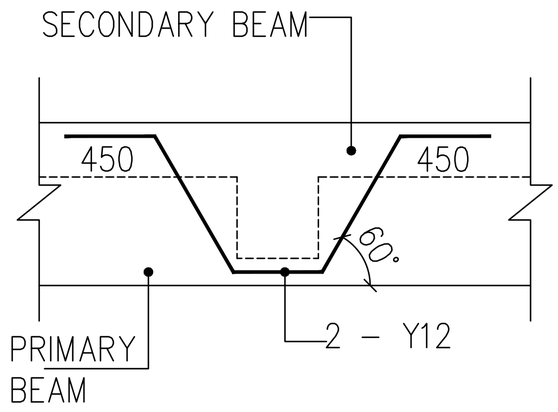
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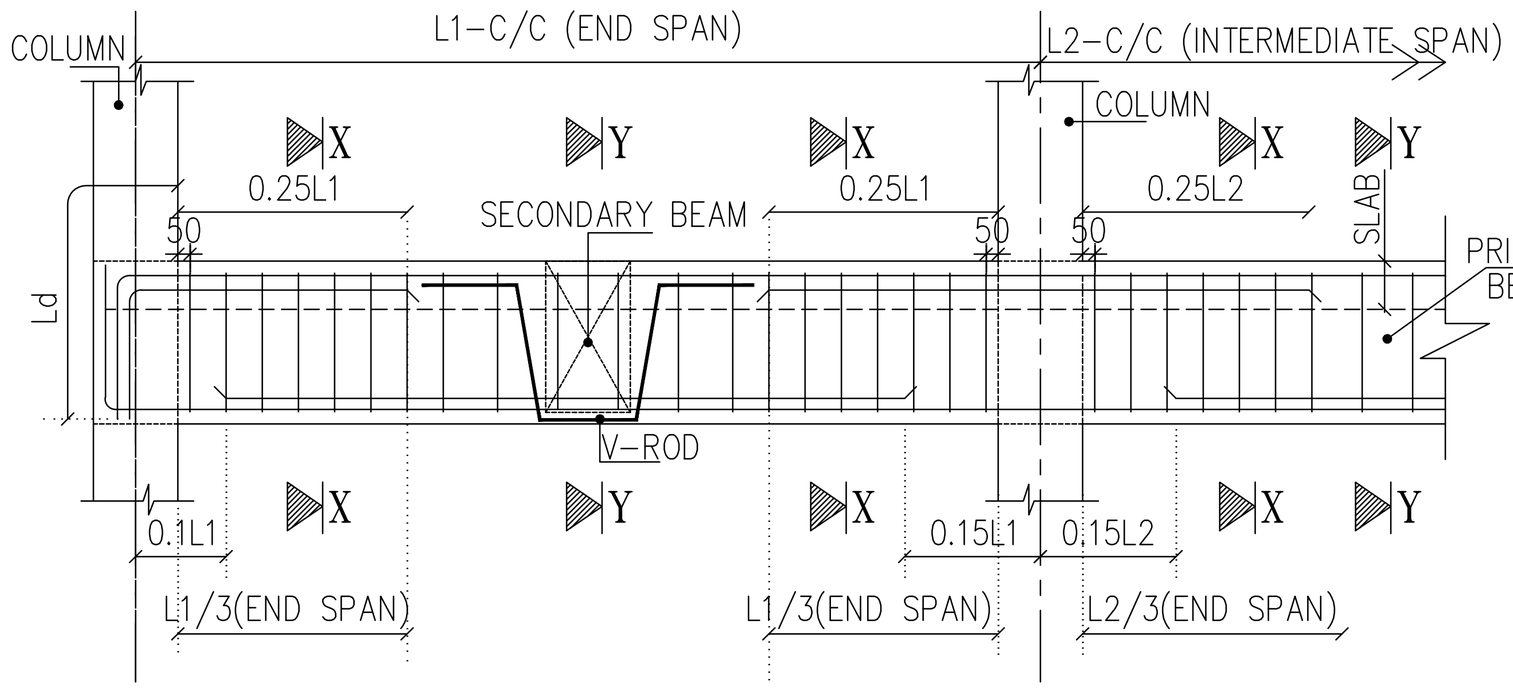
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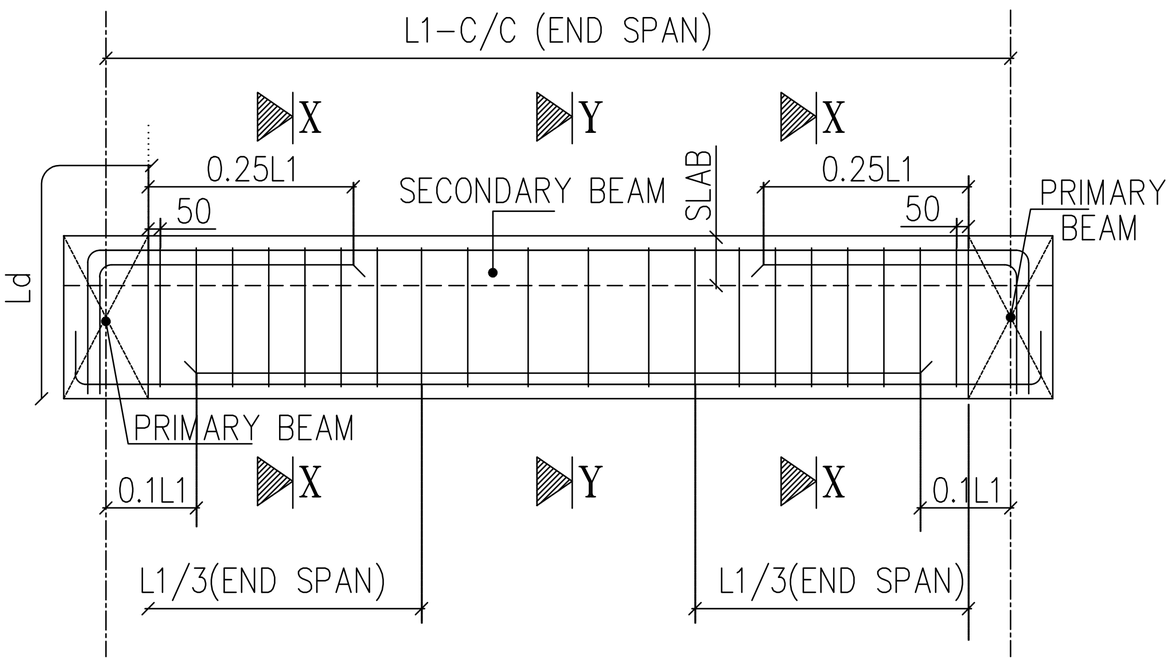

## PLAN
(N.T.S)



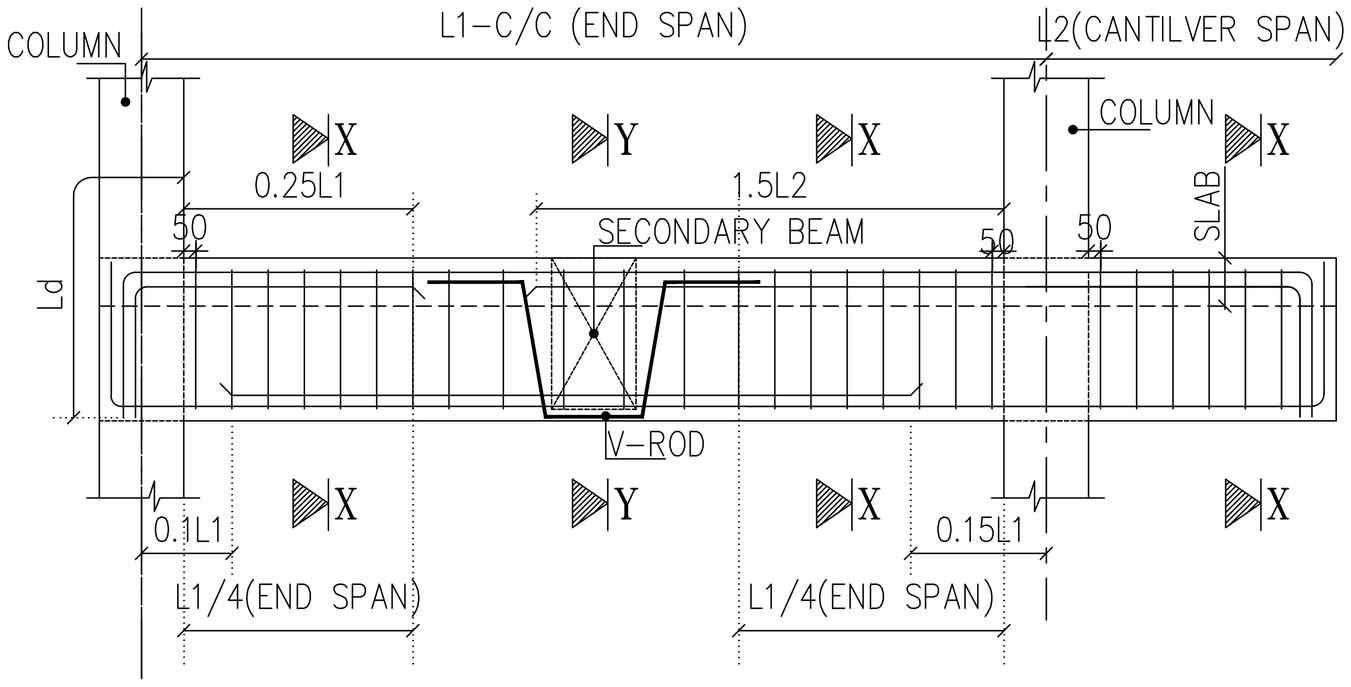

## DETAIL - Z
## (V-ROD DETAILS)
(N.T.S)



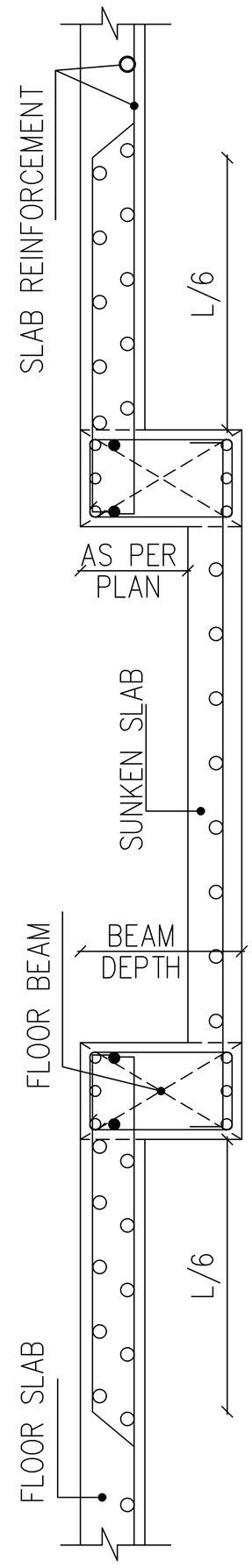

## SECTION U-U
## TYPICAL BEAM SECTION
(N.T.S)




## SECTION V-V
## TYPICAL BEAM SECTION
(N.T.S)




## SECTION W-W
## TYPICAL CANTILEVER BEAM SECTION
(N.T.S)




## TYPICAL SUNKEN SLAB SECTION
(N.T.S)

## ABBREVIATION
Ld - DEVELOPMENT LENGTH

## NOTE
*FOR SECTIONS XX & YY REFER BEAM DETAILS.

GOOD FOR CONSTRUCTION

| REF. | DESCRIPTION | BY | DATE |
|---|---|---|---|
| | REVISIONS | | |

CLIENT:
Morais Architect X.

PROJECT:
Proposed 3&2 BHK Apartment (LUXE).

TITLE:
Fifth Floor Slab, Beam Layout and Details (2-2).

| DSGN | DRWN | CHKD | APPD | DATE | SHEET | SCALE |
|---|---|---|---|---|---|---|
| JS | SP | SKAK | SKAK | 06.03.26 | A4 | 1:100 |

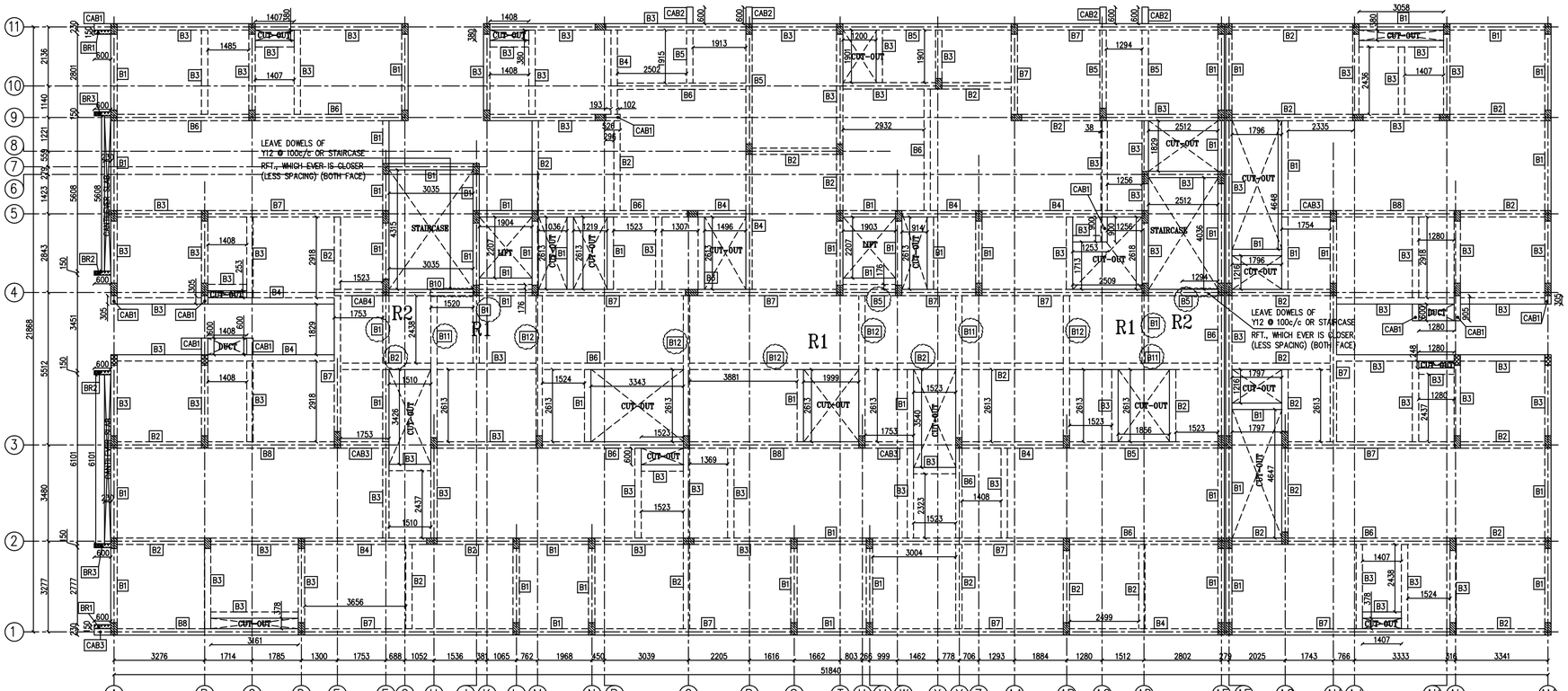
DWG. NO: MOS-25-04-RC-22-R2

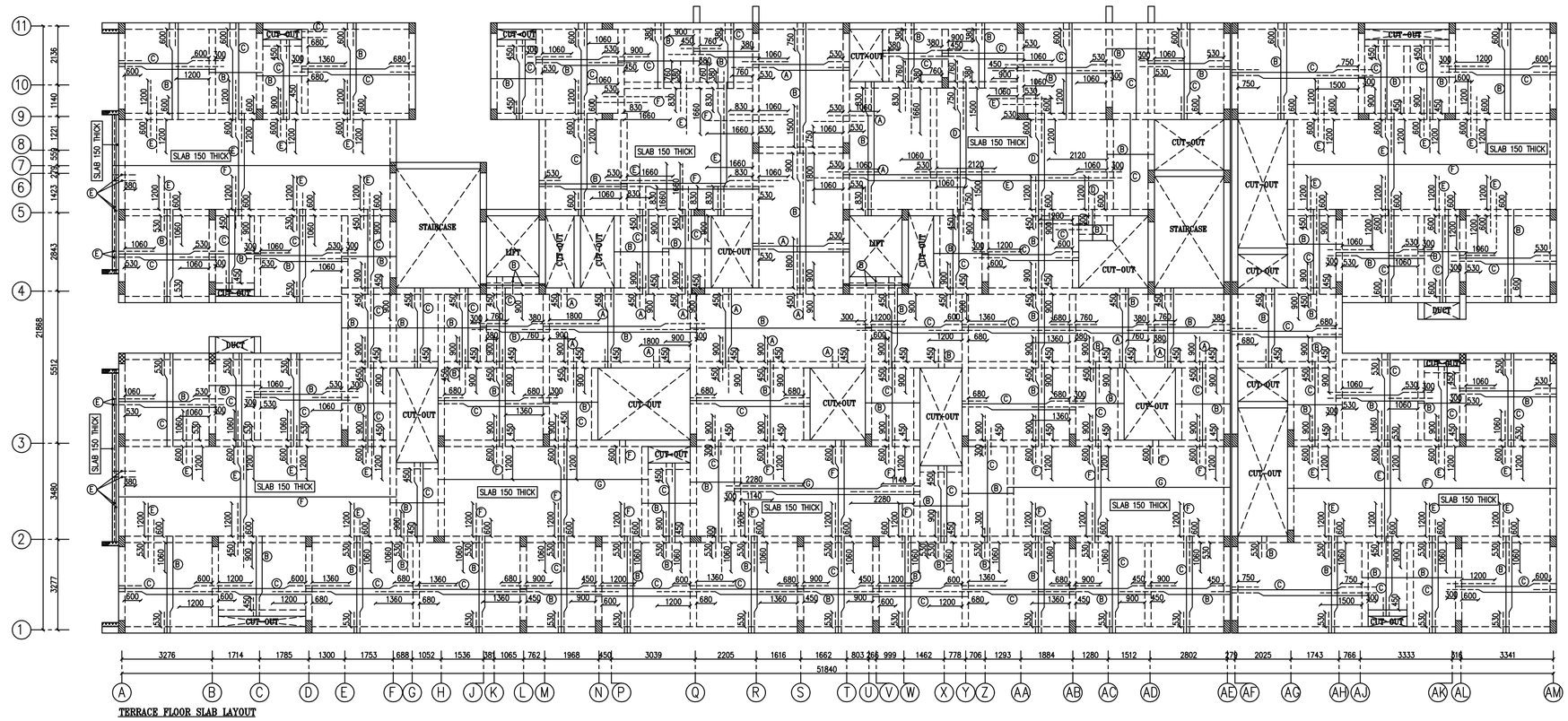
STRUCTURAL CONSULTANT

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## BEAM DETAILS

| S No | Beam No | Beam Size | Section @ XX End span | Section @ YY Mid span |
|---|---|---|---|---|
| 1 | B1 | 230x300 | 3 – Y12<br>Y8 @ 175c/c<br>3 – Y12 | |
| 2 | B2 | 230x380 | 3 – Y12<br>Y8 @ 175c/c<br>3 – Y12 | |
| 3 | B3/ CAB1 | 230x450 | 3 – Y12<br>Y8 @ 150c/c<br>3 – Y12 | |
| 4 | B4 | 230x450 | 2 – Y16<br>Y8 @ 150c/c<br>2 – Y16 | |
| 5 | B5/ CAB2 | 230x450 | 3 – Y16<br>Y8 @ 150c/c<br>3 – Y16 | |
| 6 | B6 | 230x450 | 2 – Y16 +<br>2 – Y16 (EXT)•<br>Y8 @ 150c/c<br>2 – Y16 | 2 – Y16<br>Y8 @ 175c/c<br>2 – Y16 +<br>2 – Y16 (EXT)• |
| 7 | B7 | 230x600 | 3 – Y16<br>Y8 @ 150c/c<br>3 – Y16 | |
| 8 | B8/ CAB3 | 230x600 | 4 – Y16<br>Y8 @ 150c/c<br>4 – Y16 | |
| 9 | B9 | 230x600 | 2 – Y16 +<br>3 – Y16 (EXT)•<br>Y8 @ 125c/c<br>2 – Y16 | 2 – Y16<br>Y8 @ 150c/c<br>2 – Y16 +<br>3 – Y16 (EXT)• |
| 10 | B10/ CAB4 | 230x600 | 4 – Y20<br>Y8 @ 125c/c<br>2 – Y20 | |
| 11 | B11 | 230x450 | 2 – Y16 +<br>3 – Y16 (EXT)•<br>Y8 @ 150c/c<br>2 – Y16 | 2 – Y16<br>Y8 @ 175c/c<br>2 – Y16 +<br>3 – Y16 (EXT)• |
| 12 | B12 | 230x450 | 3 – Y16 +<br>3 – Y16 (EXT)•<br>Y8 @ 125c/c<br>3 – Y16 | 3 – Y16<br>Y8 @ 150c/c<br>3 – Y16 +<br>3 – Y16 (EXT)• |

R1

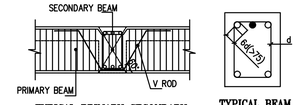
## SLAB DETAILS

THICKNESS :125 (UNLESS NOTED)

| | | |
|---|---|---|
| A | Y8 | @ 150 C/C |
| B | Y8 | @ 175 C/C |
| C | Y8 | @ 200 C/C |
| D | Y10 | @ 125 C/C |
| E | Y10 | @ 150 C/C |
| F | Y10 | @ 175 C/C |
| G | Y10 | @ 200 C/C |

## LIVE LOAD SCHEDULE

| DESCRIPTION | LIVE LOAD (kN/m²) |
|---|---|
| TERRACE FLOOR | 1.5 |



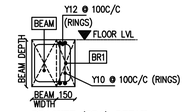

TYPICAL PRIMARY SECONDARY BEAM JUNCTION DETAIL
(N.T.S)



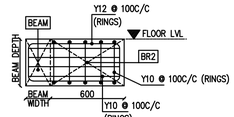

TYPICAL BEAM HOOK DETAILS

## PRE CAMBERS FOR BEAMS

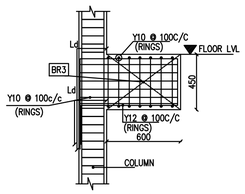
PRE CAMBERS OF 0.4% OF THE SPAN BE PROVIDED FOR ALL HORIZONTAL STRUCTURAL MEMBERS SPAN EXCEEDING 5M (1.5M FOR CANTILEVER).




BRACKET (BR1)-DETAIL
(SCALE 1:25)




BRACKET (BR2)-DETAIL
(SCALE 1:25)




BRACKET (BR3)-DETAIL
(SCALE 1:25)

## LEGENDS

- FULL HEIGHT COLUMN
- FLOATING COLUMN FROM FIRST FLOOR
- MULLION COLUMN FROM FIRST FLOOR
- COLUMN BRACKET
- BEAM BRACKET
- TOP REINFORCEMENT
- BOTTOM REINFORCEMENT

## ABBREVIATIONS

| | |
|---|---|
| Ld | – DEVELOPMENT LENGTH |
| CAB | – CANTILEVER BEAM |
| BR | – BRACKET |
| N.T.S | – NOT TO SCALE |
| LVL | – LEVEL |

N

## GENERAL NOTES

1. THIS DRAWING SHOULD BE READ ALONG WITH ARCHITECTURAL DRAWINGS.
2. ALL DIMENSIONS ARE IN MILLIMETERS.
3. ALL STRUCTURAL CONCRETE SHALL BE OF M25(1:1:2) GRADE CONFORMING TO IS:456.
4. ALL REINFORCEMENT(Y) SHALL BE H.Y.S.D. BARS OF GRADE Fe 550 CONFORMING TO IS:1786.
5. THE CLEAR COVER FOR REINFORCEMENT SHALL BE 12.5mm FOR SLAB & 25mm FOR BEAM.
6. LAP LENGTH (Ld) SHALL BE 50*D (DIA OF BAR) FOR ALL BARS.
7. NOT MORE THAN 50% OF REINFORCEMENT SHALL BE LAPPED AT ANY PARTICULAR JUNCTION.
8. THIS DRAWING IS NOT TO BE SCALED ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED.
9. ALL SLABS SHALL BE PROVIDED WITH TOP DISTRIBUTORS OF Y8 @ 200 C/C.
10. SPACER BAR TO BE PROVIDED IN BETWEEN TWO LAYERS OF REINFORCEMENT OF SAME DIA(MIN.,20mm) AT EVERY 1000 C/C.
11. THE SITE IN-CHARGE SHALL CHECK AND VERIFY ALL DIMENSIONS ON SITE BEFORE COMMENCEMENT OF WORKS AND ANY DISCREPANCIES SHALL BE REPORTED TO THE STRUCTURAL ENGINEER BEFORE EXECUTION.

GOOD FOR CONSTRUCTION

| REF | DESCRIPTION | BY | DATE |
|---|---|---|---|
| R2 | BEAM DETAILS ADDED INFRONT OF STAIRCASE PORTION | DK | 27.05.26 |
| R1 | BEAM DETAILS REVISED IN CORRIDOR PORTION AND B11 & B12 BEAM ADDED. | DK | 14.05.26 |

REVISIONS

CLIENT:
Morais Architect X.

PROJECT:
Proposed 3&2 BHK Apartment (LUXE).

TITLE:
Terrace Floor Slab, Beam Layout and Details (1-2).

| DSGN | DRWN | CHKD | APPD | DATE | SHEET | SCALE |
|---|---|---|---|---|---|---|
| JS | SP | SKAR | SKAR | 06.03.26 | A1 | 1:100 |

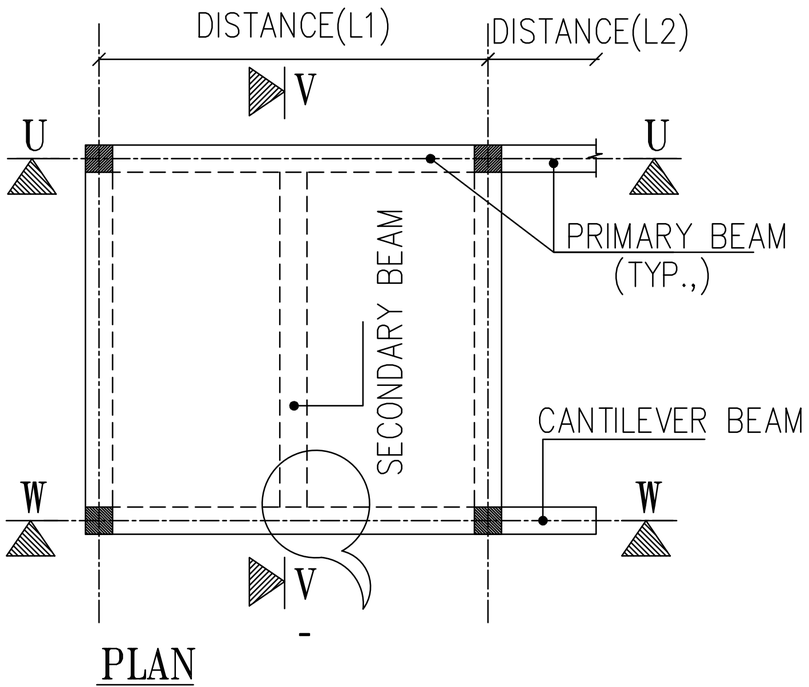
DWG. NO. MOI-JS-DH-RK1-JS1-R2

STRUCTURAL CONSULTANT

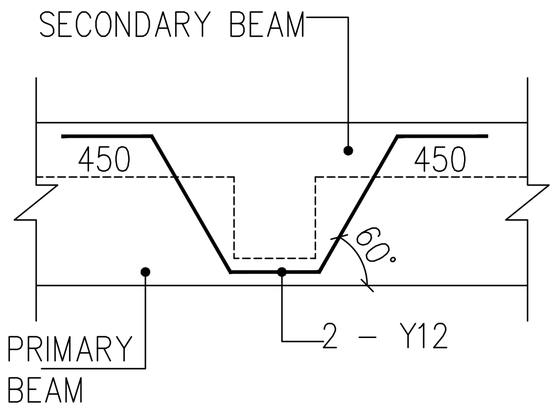
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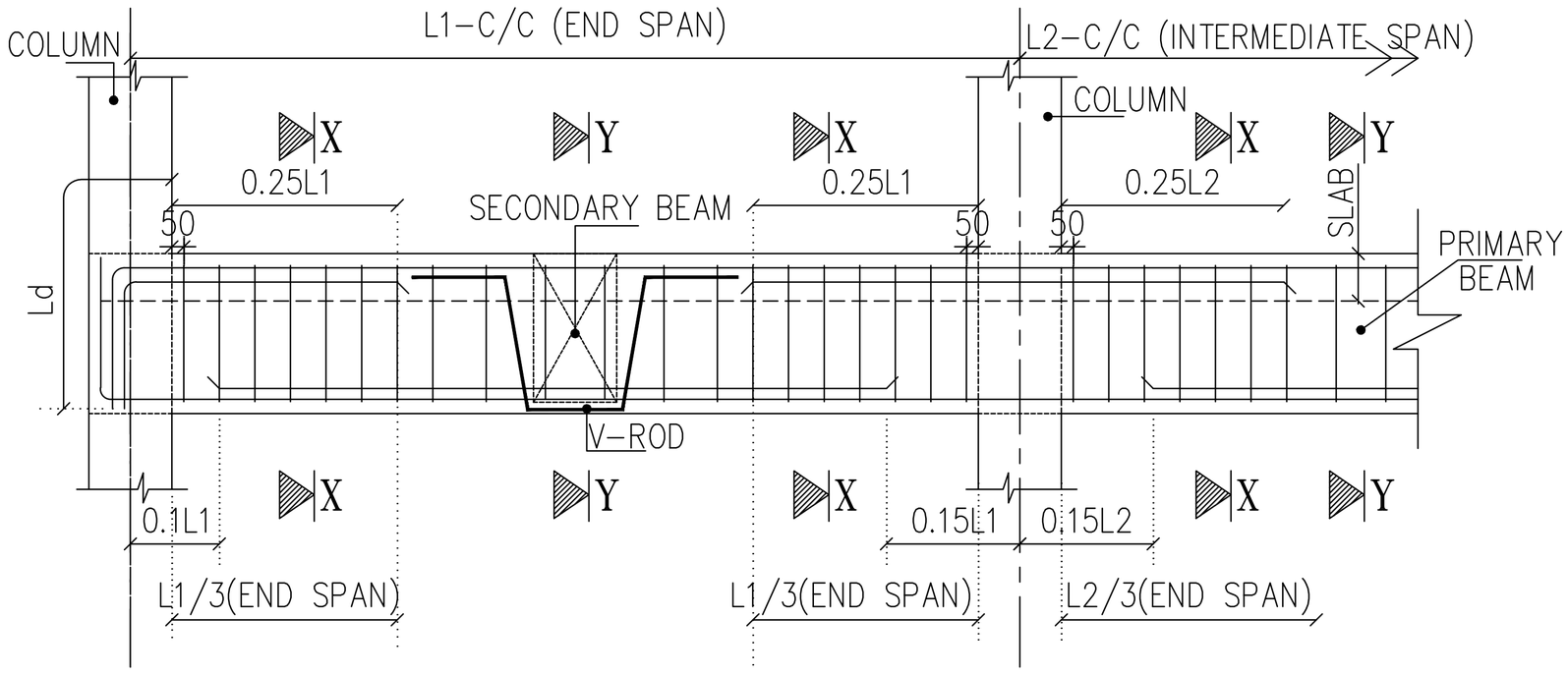
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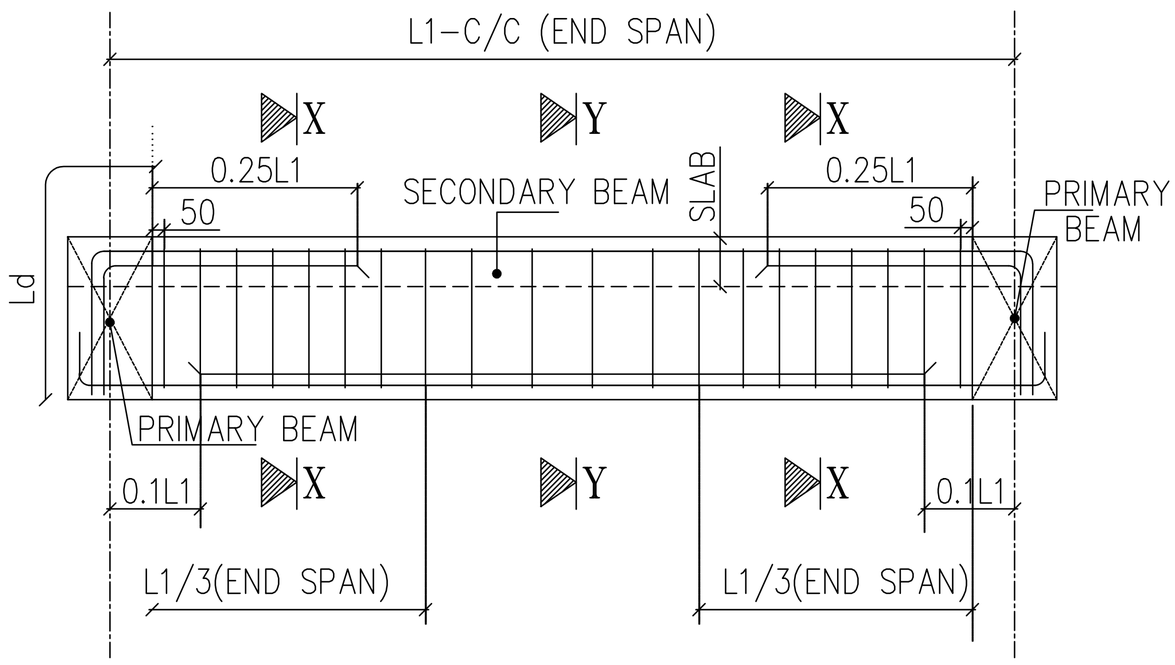

PLAN
(N.T.S)



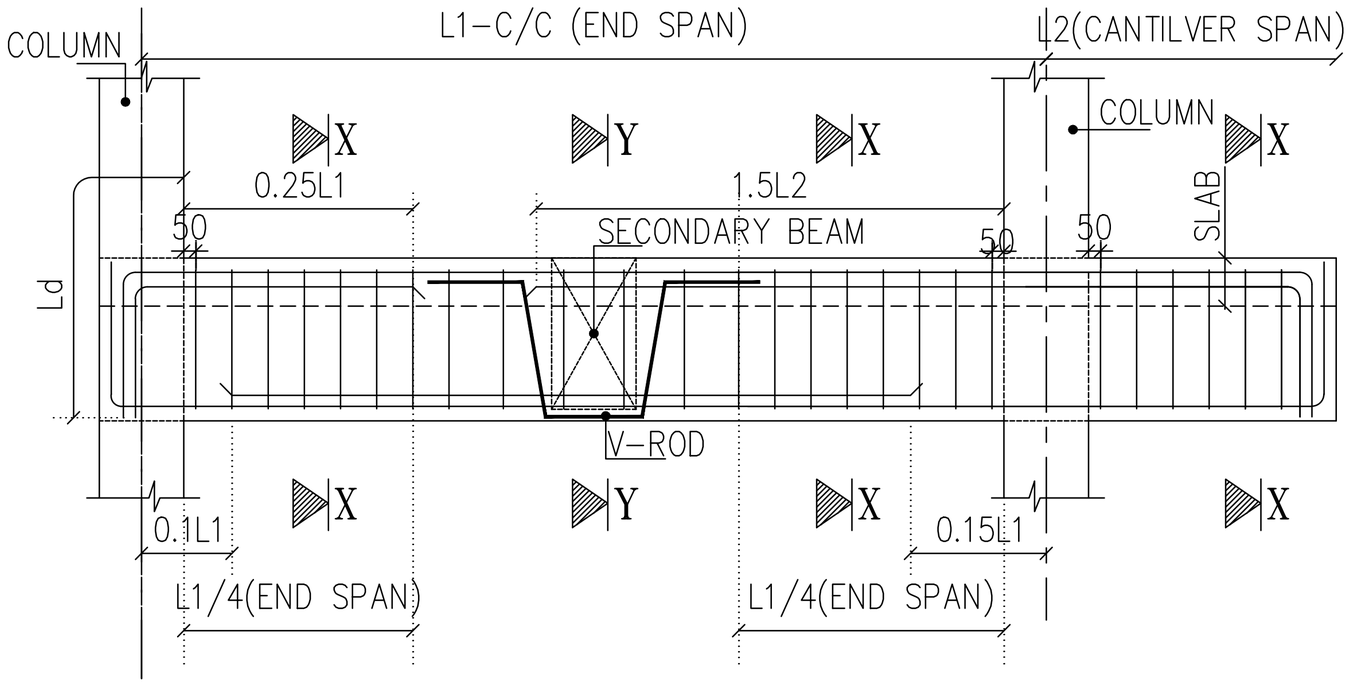

DETAIL - Z
(V-ROD DETAILS)
(N.T.S)




SECTION U-U
TYPICAL BEAM SECTION
(N.T.S)




SECTION V-V
TYPICAL BEAM SECTION
(N.T.S)




SECTION W-W
TYPICAL CANTILEVER BEAM SECTION
(N.T.S)

## ABBREVIATION

Ld – DEVELOPMENT LENGTH

## NOTE

*FOR SECTIONS XX & YY REFER BEAM DETAILS.

GOOD FOR CONSTRUCTION

| REF. | DESCRIPTION | BY | DATE |
|---|---|---|---|
| | REVISIONS | | |

CLIENT:
Morais Architect X.

PROJECT:
Proposed 3&2 BHK Apartment (LUXE).

TITLE:
Terrace Floor Slab, Beam Layout and Details (2-2).

| DSGN | DRWN | CHKD | APPD | DATE | SHEET | SCALE |
|---|---|---|---|---|---|---|
| JS | SP | SKAK | SKAK | 06.03.26 | A4 | 1:100 |

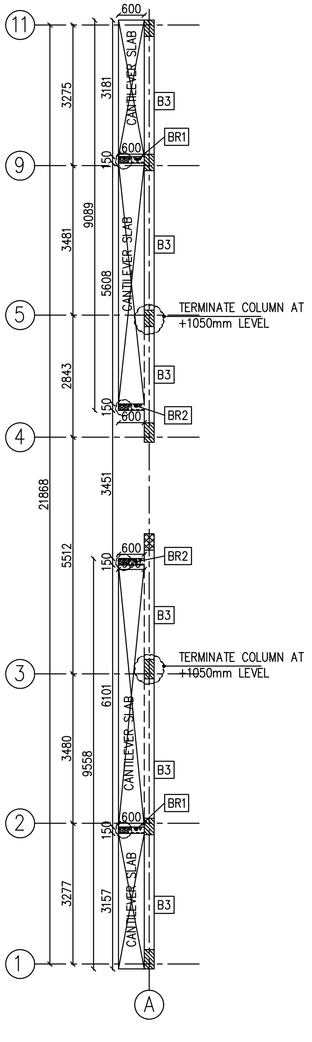
DWG. NO: MOS-25-04-RC-24-R2

STRUCTURAL CONSULTANT

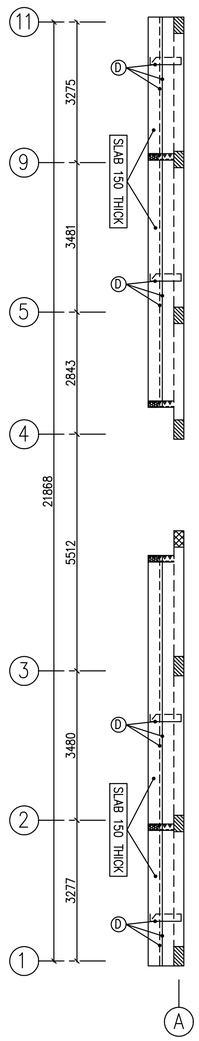
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WEB : KAARVENS.COM

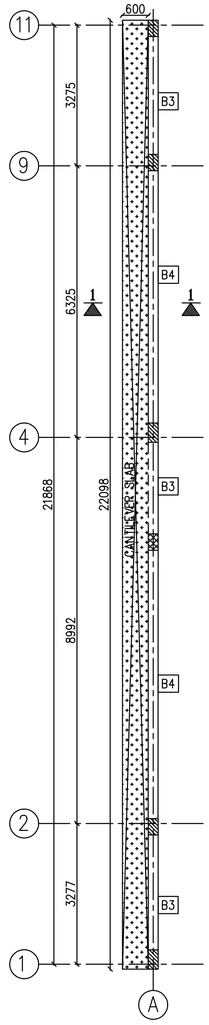
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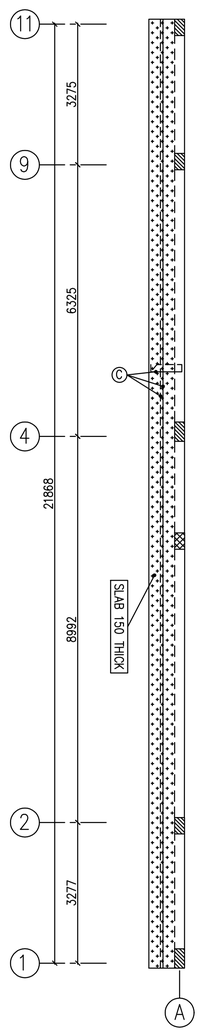

TERRACE FLOOR HIGHER LEVEL BEAM LAYOUT
(TOB : +1050mm LEVEL FROM TERRACE FLOOR LEVEL)



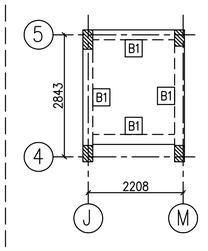

TERRACE FLOOR HIGHER LEVEL SLAB LAYOUT
(TOS : +1050mm LEVEL FROM TERRACE FLOOR LEVEL)



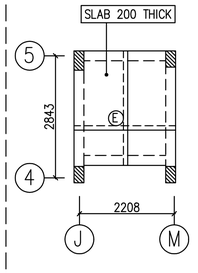

ELEVATION BEAM LAYOUT
(TOB : +3350mm LEVEL FROM TERRACE FLOOR LEVEL)



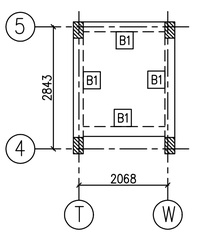

ELEVATION SLAB LAYOUT
(TOS : +3350mm LEVEL FROM TERRACE FLOOR LEVEL)



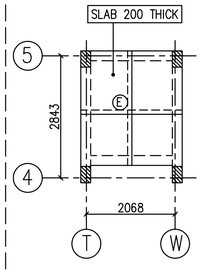

LIFT-1 HEAD ROOM BEAM LAYOUT



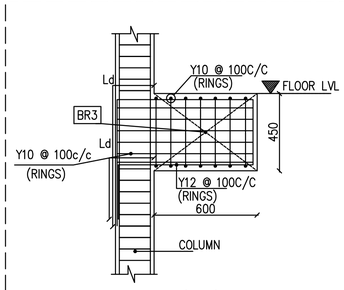

LIFT-1 HEAD ROOM SLAB LAYOUT



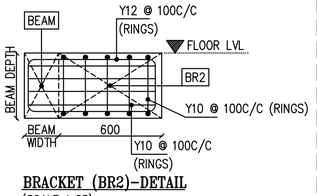

LIFT-2 HEAD ROOM BEAM LAYOUT



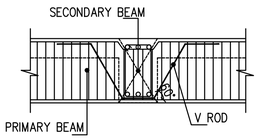

LIFT-2 HEAD ROOM SLAB LAYOUT




BRACKET (BR1)-DETAIL
(SCALE 1:25)




BRACKET (BR2)-DETAIL
(SCALE 1:25)




TYPICAL PRIMARY SECONDARY BEAM JUNCTION DETAIL
(N.T.S)

## BEAM DETAILS(CONTI..)

| S No | Beam No | Beam Size | Beam Reinforcement Details |
|---|---|---|---|
| 1 | B1 | 230x300 | 3 – Y12 / Y8 @ 175c/c / 3 – Y12 |
| 2 | B2 | 230x380 | 3 – Y12 / Y8 @ 175c/c / 3 – Y12 |
| 3 | B3 | 230x450 | 3 – Y16 / Y8 @ 150c/c / 3 – Y16 |

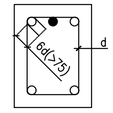
## ABBREVIATIONS

| | |
|---|---|
| Ld | – DEVELOPMENT LENGTH |
| BR | – BRACKET |
| N.T.S | – NOT TO SCALE |

## SLAB DETAILS

THICKNESS :125 (UNLESS NOTED)

| | | |
|---|---|---|
| A | Y8 @ | 150 C/C |
| B | Y8 @ | 175 C/C |
| C | Y10 @ | 125 C/C |
| D | Y10 @ | 150 C/C |
| E | Y12 @ | 100 C/C |




TYPICAL BEAM HOOK DETAILS

## LIVE LOAD SCHEDULE

| DESCRIPTION | LIVE LOAD (kN/m²) |
|---|---|
| TERRACE FLOOR HIGHER LEVEL | 0.75 |
| STAIRCASE HEAD ROOM | 0.75 |
| LIFT HEAD ROOM | 5 |

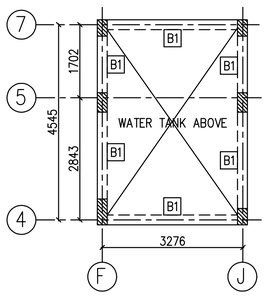
## BEAM DETAILS

| S No | Beam No | Beam Size | Section @ XX End span | Section @ YY Mid span |
|---|---|---|---|---|
| 4 | B4 | 230x450 | 3 – Y16 + 2 – Y16 (EXT)• / Y8 @ 150c/c / 3 – Y16 | 3 – Y16 / Y8 @ 175c/c / 3 – Y16 + 2 – Y16 (EXT)• |

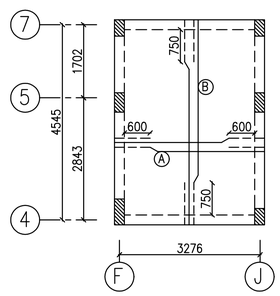
R1

## PRE CAMBERS FOR BEAMS

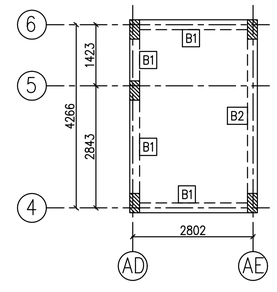
PRE CAMBERS OF 0.4% OF THE SPAN BE PROVIDED FOR ALL HORIZONTAL STRUCTURAL MEMBERS SPAN EXCEEDING 5M (1.5M FOR CANTILEVER).



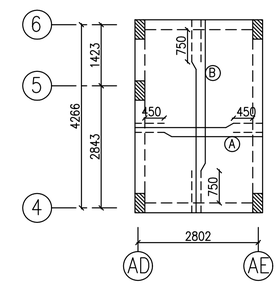

STAIRCASE-1 HEAD ROOM BEAM LAYOUT



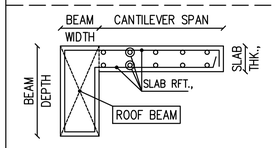

STAIRCASE-1 HEAD ROOM SLAB LAYOUT



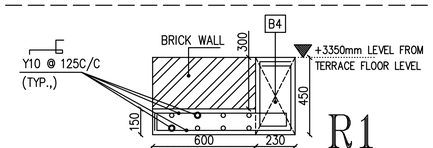

STAIRCASE-2 HEAD ROOM BEAM LAYOUT




STAIRCASE-2 HEAD ROOM SLAB LAYOUT




TYPICAL CANTILEVER SLAB SECTION
(N.T.S)




SECTION 1-1
(SCALE 1:25)

R1

## LEGENDS

- – FULL HEIGHT COLUMN
- – FLOATING COLUMN FROM FIRST FLOOR
- – COLUMN BRACKET
- – MULLION COLUMN FROM FIRST FLOOR
- – BEAM BRACKET
- – SLAB @ BEAM BOTTOM
- – TOP REINFORCEMENT
- – BOTTOM REINFORCEMENT

N

## GENERAL NOTES

1. THIS DRAWING SHOULD BE READ ALONG WITH ARCHITECTURAL DRAWINGS.
2. ALL DIMENSIONS ARE IN MILLIMETERS.
3. ALL STRUCTURAL CONCRETE SHALL BE OF M25(1:1:2) GRADE CONFORMING TO IS:456.
4. ALL REINFORCEMENT(Y) SHALL BE H.Y.S.D. BARS OF GRADE Fe 550 CONFORMING TO IS:1786.
5. THE CLEAR COVER FOR REINFORCEMENT SHALL BE 12.5mm FOR SLAB & 25mm FOR BEAM.
6. LAP LENGTH (Ld) SHALL BE 50*D (DIA OF BAR) FOR ALL BARS.
7. NOT MORE THAN 50% OF REINFORCEMENT SHALL BE LAPPED AT ANY PARTICULAR JUNCTION.
8. THIS DRAWING IS NOT TO BE SCALED ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED.
9. ALL SLABS SHALL BE PROVIDED WITH TOP DISTRIBUTORS OF Y8 @ 200 C/C.
10. SPACER BAR TO BE PROVIDED IN BETWEEN TWO LAYERS OF REINFORCEMENT OF SAME DIA(MIN.,20mm) AT EVERY 1000 C/C.
11. THE SITE IN-CHARGE SHALL CHECK AND VERIFY ALL DIMENSIONS ON SITE BEFORE COMMENCEMENT OF WORKS AND ANY DISCREPANCIES SHALL BE REPORTED TO THE STRUCTURAL ENGINEER BEFORE EXECUTION.

GOOD FOR CONSTRUCTION

| REF. | DESCRIPTION | BY | DATE |
|---|---|---|---|
| R1 | B4 BEAM & SECTION 1-1 DETAILS ADDED. | DK | 14.05.26 |

REVISIONS

CLIENT:
Morais Architect X.

PROJECT:
Proposed 3&2 BHK Apartment (LUXE).

TITLE:
Elevation Slab, Staircase & Lift Headroom Cover Slab, Beam Layout & Details (1-2).

| DSGN | DRWN | CHKD | APPD | DATE | SHEET | SCALE |
|---|---|---|---|---|---|---|
| MV | MV | SKAK | SKAK | 06.03.26 | A2 | 1:100 |

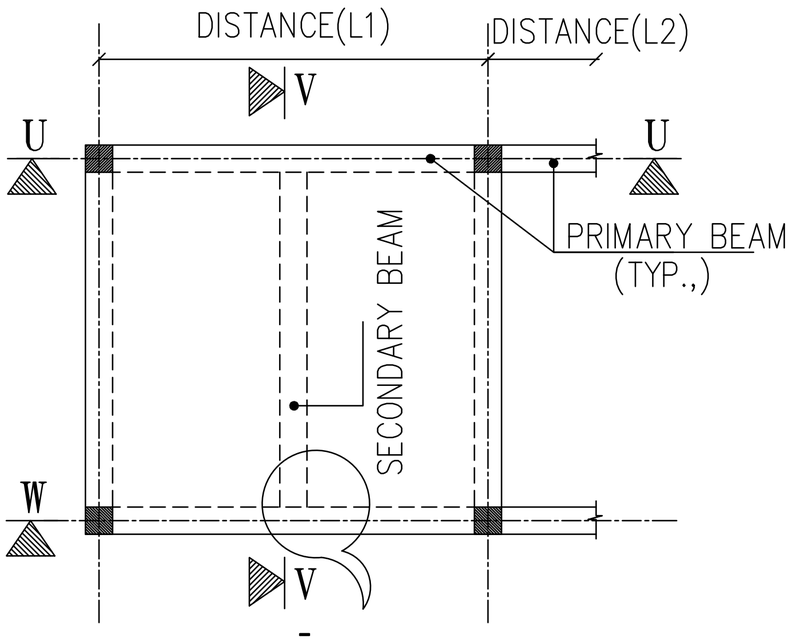
DWG. NO: MOS-25-04-RC-25-R1

STRUCTURAL CONSULTANT

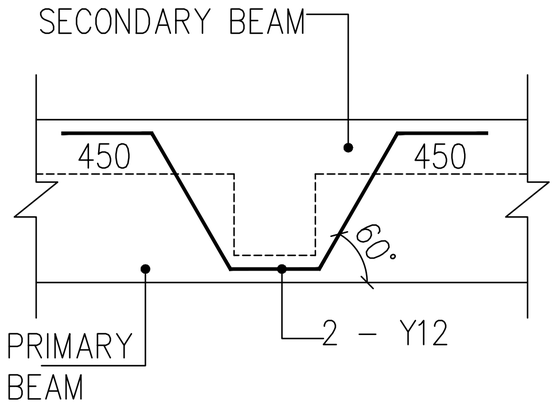
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Er. S.K.ARUN KAMARAJ, ME (Struct.),
KAARVENS STRUCTURAL CONSULTANCY,
41, BR NAGAR, 3RD STREET,
KOTHARI LAYOUT, RAMANATHAPURAM,
COIMBATORE-641005,
M:+91-9894215019, M:+91-8270005019
E-MAIL : skarun@kaarvens.com
WEB : KAARVENS.COM

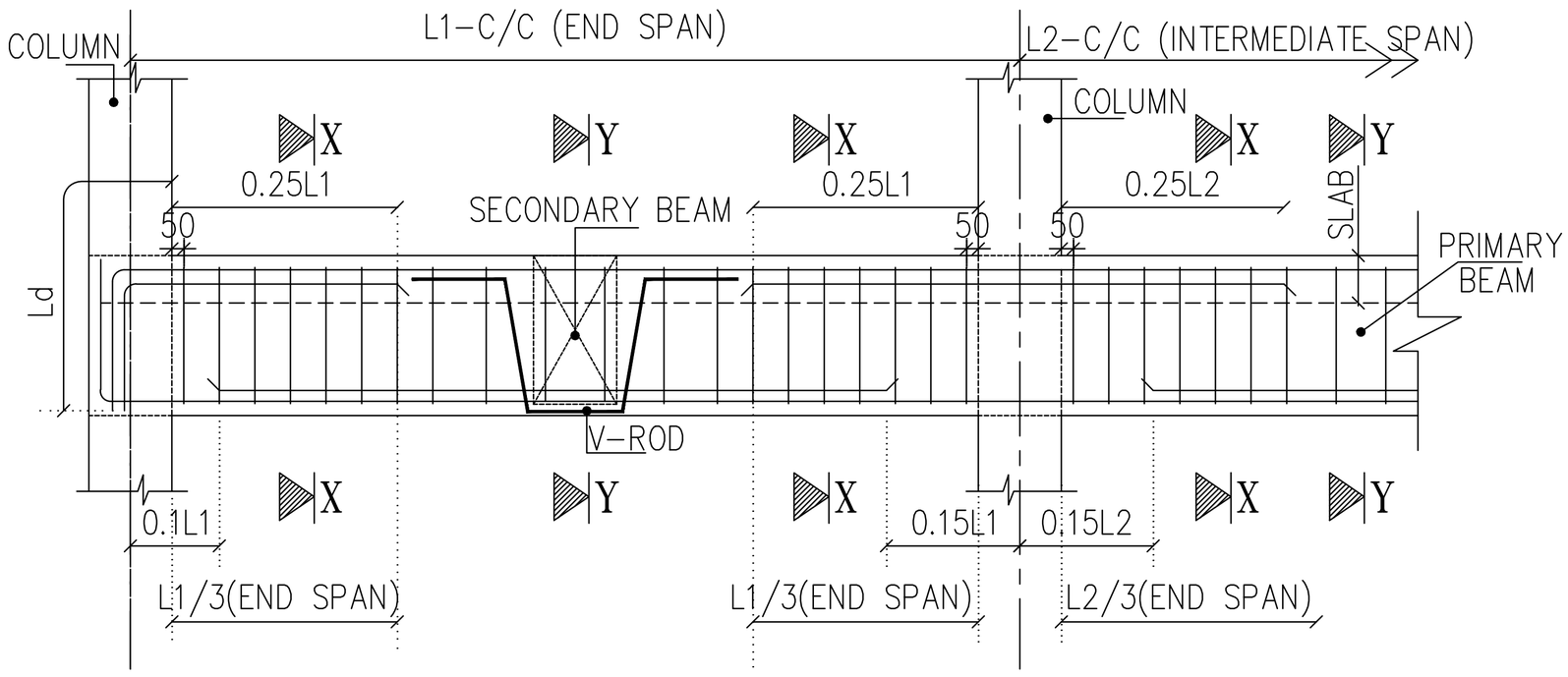
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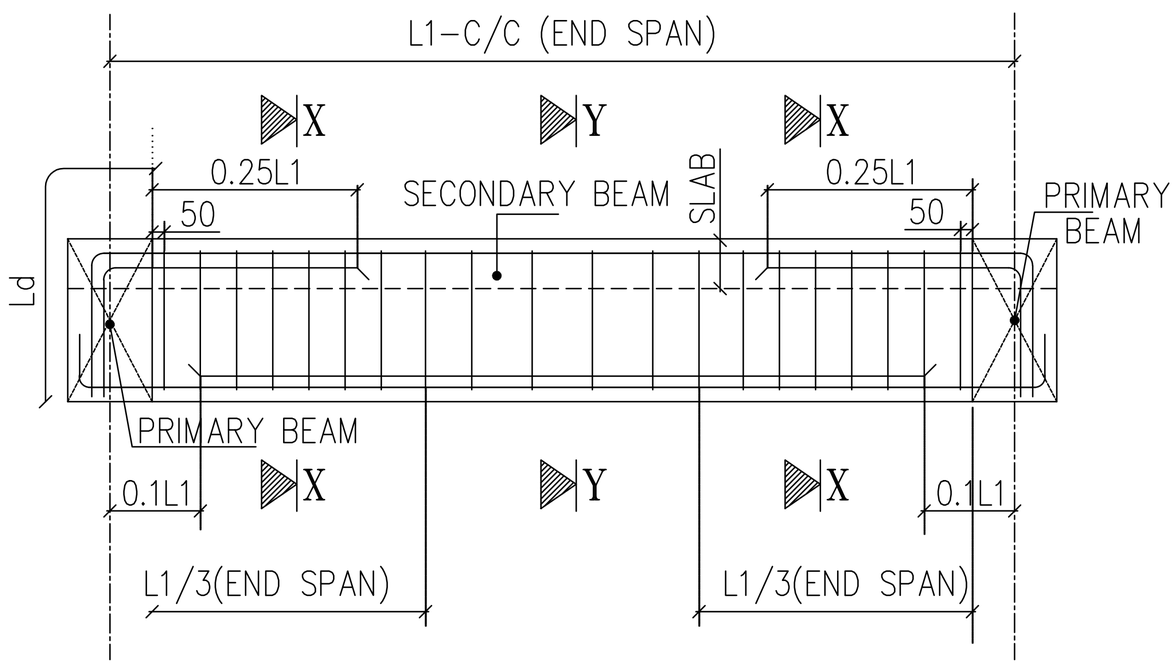

PLAN
(N.T.S)




DETAIL - Z
(V-ROD DETAILS)
(N.T.S)




SECTION U-U
TYPICAL BEAM SECTION
(N.T.S)




SECTION V-V
TYPICAL BEAM SECTION
(N.T.S)

## ABBREVIATIONS

| | |
|---|---|
| Ld | - DEVELOPMENT LENGTH |
| BR | - BRACKET |
| N.T.S | - NOT TO SCALE |

## NOTE

*FOR SECTIONS XX & YY REFER BEAM DETAILS.

GOOD FOR CONSTRUCTION

| REF. | DESCRIPTION | BY | DATE |
|---|---|---|---|
| | REVISIONS | | |

CLIENT:
Morais Architect X.

PROJECT:
Proposed 3&2 BHK Apartment (LUXE).

TITLE:
Elevation Slab, Staircase & Lift Headroom Cover Slab, Beam Layout & Details (2-2).

| DSGN | DRWN | CHKD | APPD | DATE | SHEET | SCALE |
|---|---|---|---|---|---|---|
| JS | DK | SKAK | SKAK | 06.03.26 | A4 | 1:100 |

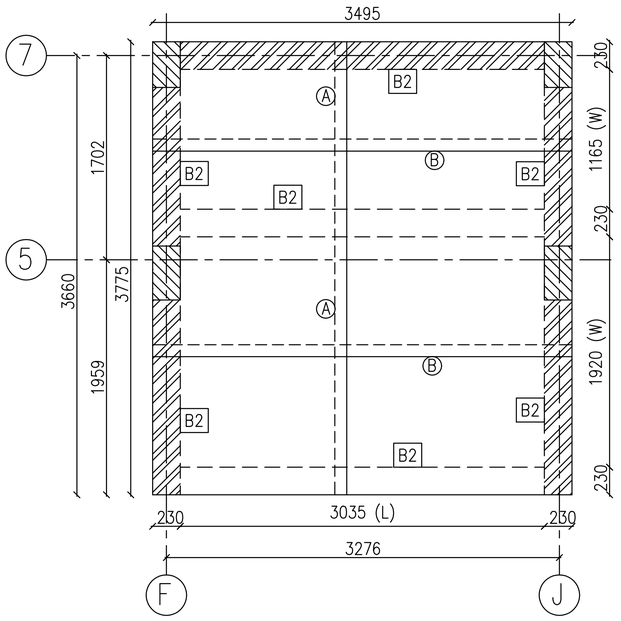
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STRUCTURAL CONSULTANT

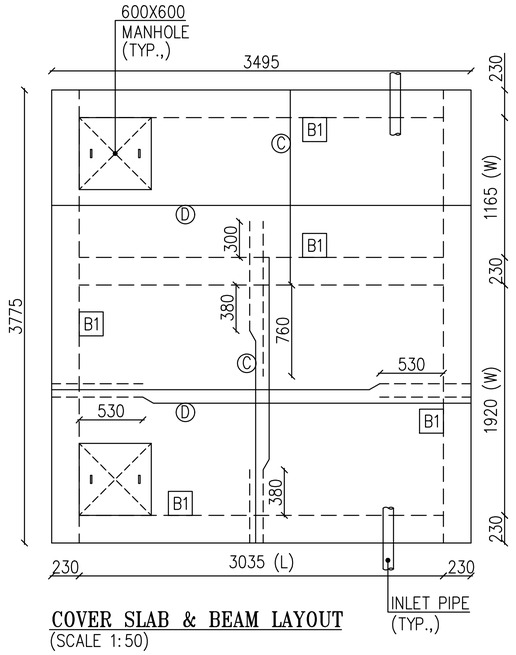
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KOTHARI LAYOUT, RAMANATHAPURAM,
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E-MAIL : skarun@kaarvens.com
WEB : KAARVENS.COM

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BASE SLAB & BEAM LAYOUT
(SCALE 1:50)
(WATER TANK IS PLACED 900mm ABOVE HEAD ROOM COVER SLAB)




COVER SLAB & BEAM LAYOUT
(SCALE 1:50)

## BEAM DETAILS

| S No | Beam No | Beam Size | Beam Reinforcement Details |
|---|---|---|---|
| 1 | B1 | 230x300 | 3 – Y12<br>Y8 @ 175 c/c<br>3 – Y12 |
| 2 | B2 | 230x450 | 4 – Y16<br>Y8 @ 175 c/c<br>4 – Y16 |

## BASE SLAB (BT)

THICKNESS (BT) : 200 (UNLESS NOTED)

| | |
|---|---|
| A | Y10 : @ : 125 C/C |
| B | Y10 : @ : 150 C/C |

## COVER SLAB (CT)

THICKNESS (CT) : 125 (UNLESS NOTED)

| | |
|---|---|
| C | Y8 : @ : 150 C/C |
| D | Y8 : @ : 175 C/C |

## RCC WALL

THICKNESS (WT) : 230 (UNLESS NOTED)

| | |
|---|---|
| E | Y10 : @ : 150 C/C |
| F | Y8 : @ : 150 C/C |

## MUNICIPAL WATER TANK – 1

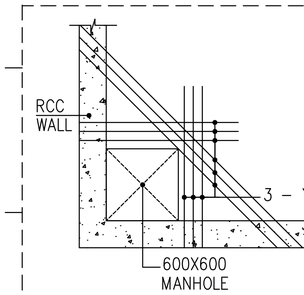
L – 3035
W – 1165
H – 2100
CAPACITY – 7420 LITERS

## TANK – 2

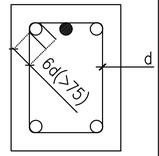
L – 3035
W – 1920
H – 2100
CAPACITY – 12,230 LITERS

## LIVE LOAD SCHEDULE

| DESCRIPTION | LIVE LOAD (kN/m²) |
|---|---|
| COVER SLAB | 0.75 |




TYPICAL MANHOLE DETAIL
(N.T.S)




TYPICAL BEAM HOOK DETAILS

## GENERAL NOTES

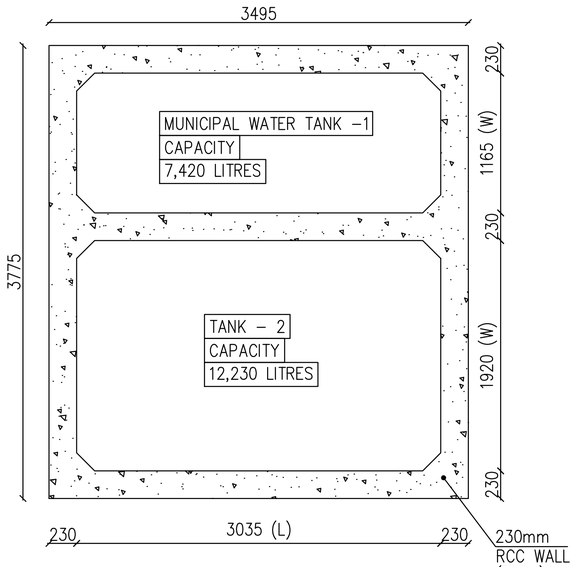
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3. ALL STRUCTURAL CONCRETE SHALL BE OF M25(1:1:2) GRADE CONFORMING TO IS:456.
4. ALL REINFORCEMENT(Y) SHALL BE H.Y.S.D. BARS OF GRADE Fe 550 CONFORMING TO IS:1786.
5. THE CLEAR COVER FOR REINFORCEMENT SHALL BE 12mm FOR SLAB, 25mm FOR BEAM & 40mm FOR R.C.C WALL.
6. LAP LENGTH (Ld) SHALL BE 50*D (DIA OF BAR) FOR ALL BARS.
7. NOT MORE THAN 50% OF REINFORCEMENT SHALL BE LAPPED AT ANY PARTICULAR JUNCTION.
8. THIS DRAWING IS NOT TO BE SCALED ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED.
9. INNER SURFACE OF THE WATER TANK TO BE BE PROVIDED WITH PROTECTIVE COATING.
10. SUITABLE WATER PROOFING CHEMICAL TO BE ADDED WITH CONCRETE, BEFORE CONCRETING.
11. THE SITE IN-CHARGE SHALL CHECK AND VERIFY ALL DIMENSIONS ON SITE BEFORE COMMENCEMENT OF WORKS AND ANY DISCREPANCIES SHALL BE REPORTED TO THE STRUCTURAL ENGINEER BEFORE EXECUTION.
12. ALL SLABS SHALL BE PROVIDED WITH TOP DISTRIBUTORS OF Y8 @ 8" C/C.

## LEGENDS

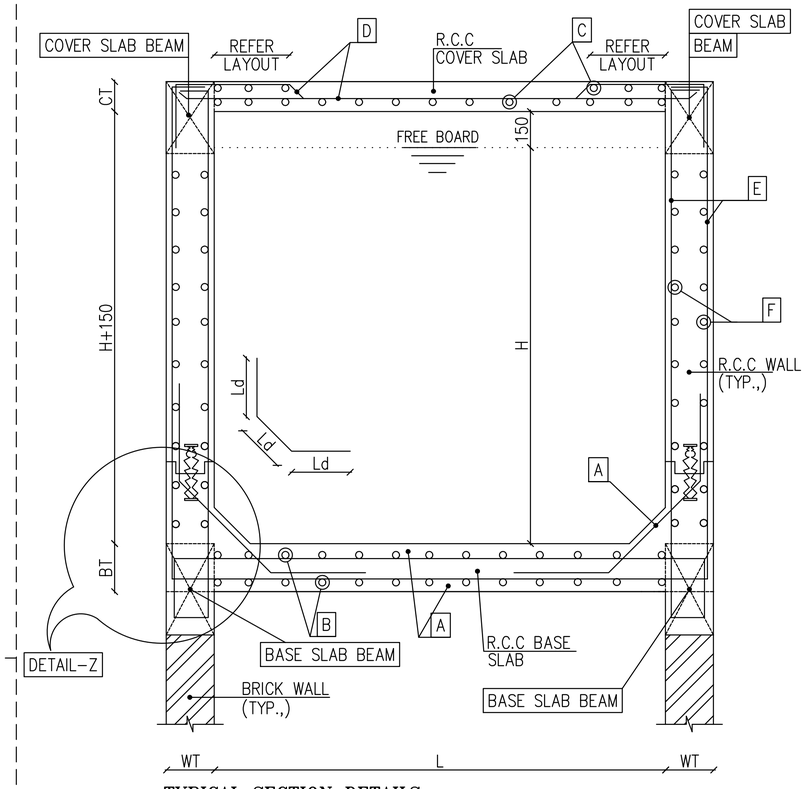
– RCC WALL
– LOAD BEARING BEAM
– TOP REINFORCEMENT
– BOTTOM REINFORCEMENT

## ABBREVIATIONS

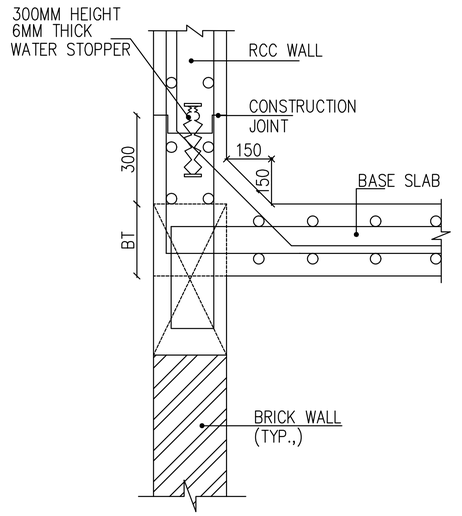
Ld – DEVELOPMENT LENGTH
N.T.S – NOT TO SCALE




PLAN – RCC WALL LAYOUT
(SCALE 1:50)




TYPICAL SECTION DETAILS
(N.T.S)




DETAIL –Z
(OTHER DETAILS NOT SHOWN FOR CLARITY)
(N.T.S)

## NOTE

* INLET PIPE, MANHOLE LOCATION SHOWN FOR INDICATION ONLY. IT SHALL BE LOCATED AS PER THE SITE REQUIREMENT.
* FOR CLEANING & MAINTENANCE PURPOSE, SHALL BE ACCESSED WITH LADDER ONLY.
* *FOR OVER HEAD TANK LEVEL REFER ARCHITECT DRAWING.

## NOTE

– LOAD BEARING BEAM

* THE ABOVE MENTIONED BEAM DESIGNED AS LOAD BEARING. THEREFORE THE BEAM SHALL NOT BE CASTED WITHOUT BRICK WORK UPTO BEAM BOTTOM LEVEL.

GOOD FOR CONSTRUCTION

| REF. | DESCRIPTION | BY | DATE |
|---|---|---|---|
| REVISIONS | | | |

CLIENT:
Morais Architect X.

PROJECT:
Proposed 3&2 BHK Apartment (LUXE).

TITLE:
Typical Over Head Tank Layout & Details.

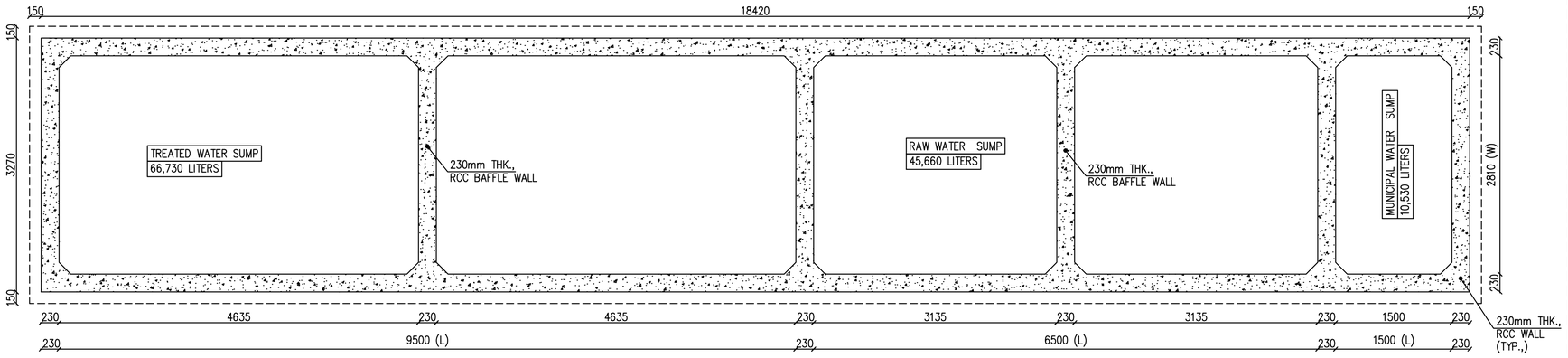
| DSGN | DRWN | CHKD | APPD | DATE | SHEET | SCALE |
|---|---|---|---|---|---|---|
| MV | TS | SKAK | SKAK | 27.05.26 | A3 | 1:100 |

DWG. NO: MOS-25-04-RC-26-R2

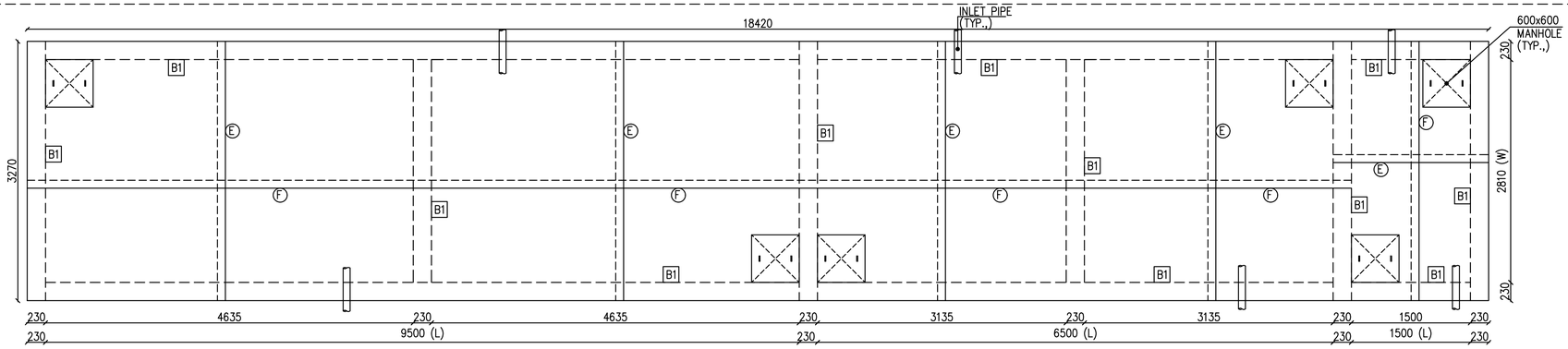
STRUCTURAL CONSULTANT

KAARVENS
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PLAN
(SCALE 1:50)




COVER SLAB & BEAM LAYOUT
(SCALE 1:50)

## BEAM DETAIL

| S No | Beam No | Beam Size | Beam Reinforcement Detail |
|---|---|---|---|
| 1 | B1 | 230x380 | 3 – Y12<br>Y8 @ 150c/c<br>3 – Y12 |

## LIVE LOAD SCHEDULE

| DESCRIPTION | LIVE LOAD (kN/m²) |
|---|---|
| COVER SLAB | 5 |
| FILLING & VEHICLE LOAD CONSIDER | |

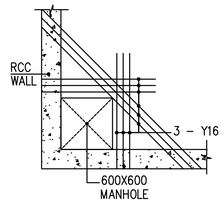
## NOTE

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* FOR CLEANING & MAINTENANCE PURPOSE, SHALL BE ACCESSED WITH LADDER ONLY.

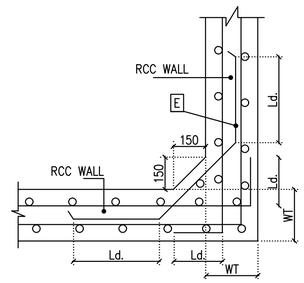
## TREATED WATER SUMP
L – 9500
W – 2810
H – 2500
CAPACITY – 66,730 LITERS

## RAW WATER SUMP
L – 6500
W – 2810
H – 2500
CAPACITY – 45,660 LITERS

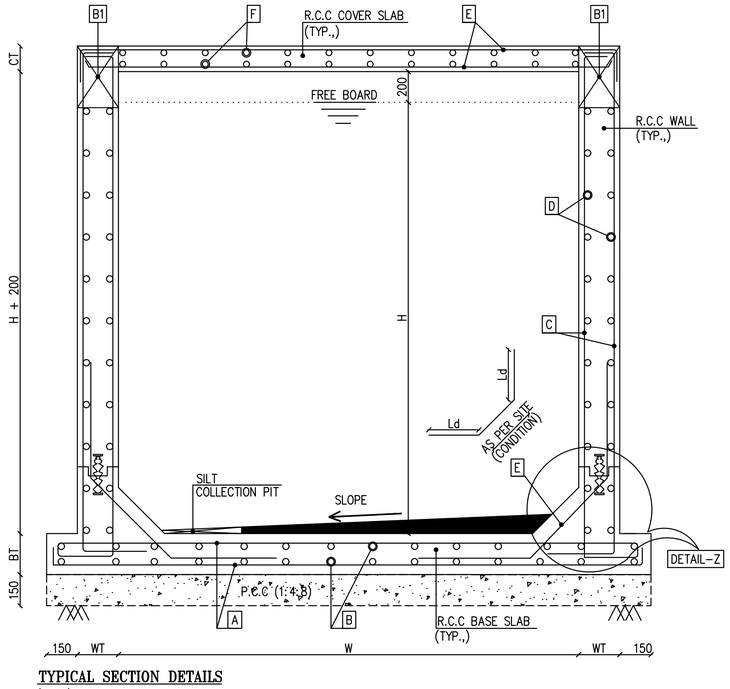
## MUNICIPAL WATER SUMP
L – 1500
W – 2810
H – 2500
CAPACITY – 10,530 LITERS



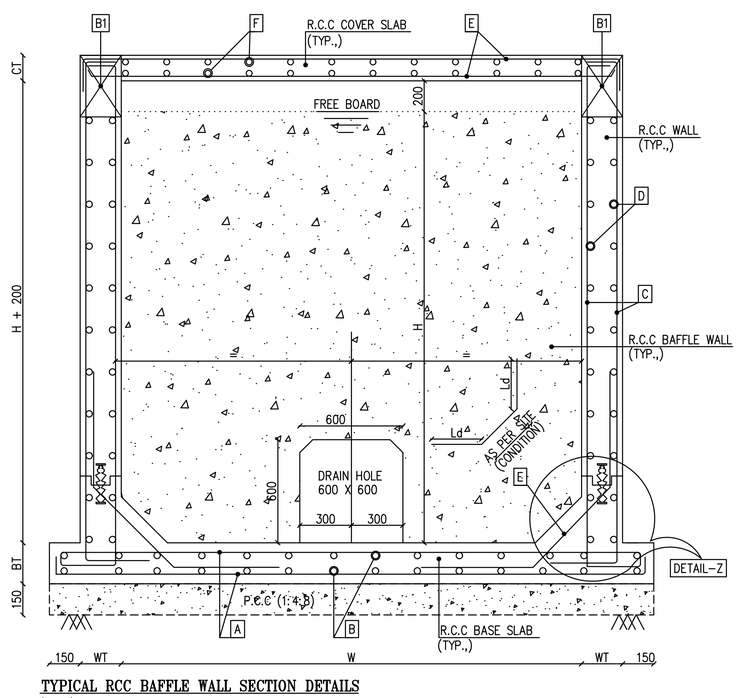

TYPICAL MANHOLE DETAIL
(N.T.S)



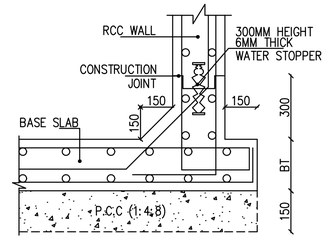

TYPICAL RCC WALL JUNCTION DETAIL
(N.T.S)



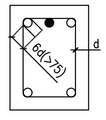

TYPICAL SECTION DETAILS
(N.T.S)




TYPICAL RCC BAFFLE WALL SECTION DETAILS
(N.T.S)




DETAIL –Z
(N.T.S)




TYPICAL BEAM
HOOK DETAILS

## LEGENDS

– RCC WALL
– TOP REINFORCEMENT
– BOTTOM REINFORCEMENT

## ABBREVIATIONS

| | |
|---|---|
| Ld | – DEVELOPMENT LENGTH |
| N.T.S | – NOT OT SCALE |
| L | – LENGTH |
| W | – WIDTH |
| H | – HEIGHT |
| CT | – COVER SLAB THICKNESS |
| WT | – RCC WALL THICKNESS |
| BT | – BASE SLAB THICKNESS |
| THK | – THICKNESS |

## BASE SLAB (BT)

BASE SLAB THICKNESS (BT): 250

| | | | |
|---|---|---|---|
| A | Y12 | @ | 115 C/C |
| B | Y10 | @ | 115 C/C |

## RCC WALL (WT)

WALL THICKNESS (WT): 230

| | | | |
|---|---|---|---|
| C | Y10 | @ | 125 C/C |
| D | Y10 | @ | 150 C/C |

## COVER SLAB (CT)

COVER SLAB THICKNESS (CT): 200

| | | | |
|---|---|---|---|
| E | Y12 | @ | 150 C/C |
| F | Y10 | @ | 150 C/C |

## GENERAL NOTES

1. THIS DRAWING SHOULD BE READ ALONG WITH ARCHITECTURAL DRAWINGS.
2. ALL DIMENSIONS ARE IN MILLIMETERS.
3. ALL STRUCTURAL CONCRETE SHALL BE OF M25(1:1:2) GRADE CONFORMING TO IS:456.
4. ALL REINFORCEMENT(Y) SHALL BE H.Y.S.D. BARS OF GRADE Fe 550 CONFORMING TO IS:1786.
5. THE CLEAR COVER FOR REINFORCEMENT SHALL BE 12mm FOR SLAB & 25mm FOR BEAM, 40mm FOR R.C.C WALL.
6. LAP LENGTH (Ld) SHALL BE 50*D (DIA OF BAR) FOR ALL BARS.
7. NOT MORE THAN 50% OF REINFORCEMENT SHALL BE LAPPED AT ANY PARTICULAR JUNCTION.
8. THIS DRAWING IS NOT TO BE SCALED ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED.
9. INNER SURFACE OF THE WATER TANK TO BE BE PROVIDED WITH PROTECTIVE COATING.
10. SUITABLE WATER PROOFING CHEMICAL TO BE ADDED WITH CONCRETE, BEFORE CONCRETING.
11. THE SITE IN-CHARGE SHALL CHECK AND VERIFY ALL DIMENSIONS ON SITE BEFORE COMMENCEMENT OF WORKS AND ANY DISCREPANCIES SHALL BE REPORTED TO THE STRUCTURAL ENGINEER BEFORE EXECUTION.
12. ALL SLABS SHALL BE PROVIDED WITH TOP DISTRIBUTORS OF Y8 @ 200 C/C.

GOOD FOR CONSTRUCTION

| REF. | DESCRIPTION | BY | DATE |
|---|---|---|---|

REVISIONS

CLIENT:
Morais Architect X.

PROJECT:
Proposed 3&2 BHK Apartment (LUXE).

TITLE:
Typical UG - Sump Layout and Details.

| DSGN | DRWN | CHKD | APPD | DATE | SHEET | SCALE |
|---|---|---|---|---|---|---|
| MV | TS | SKAK | SKAK | 14.05.26 | A3 | 1:100 |

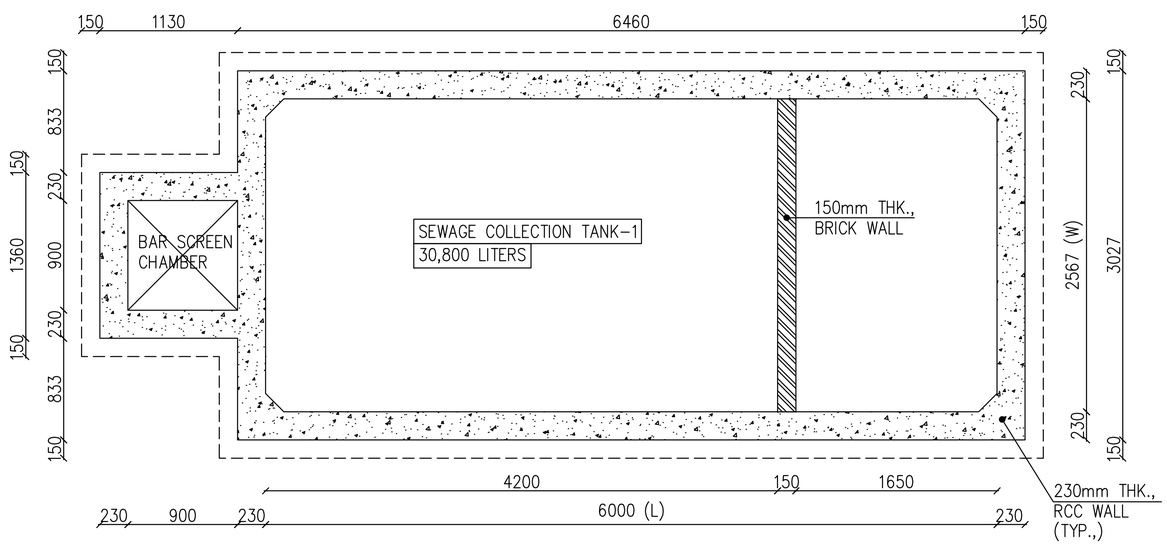
DWG. NO: MOS-25-04-RC-28-R0

STRUCTURAL CONSULTANT

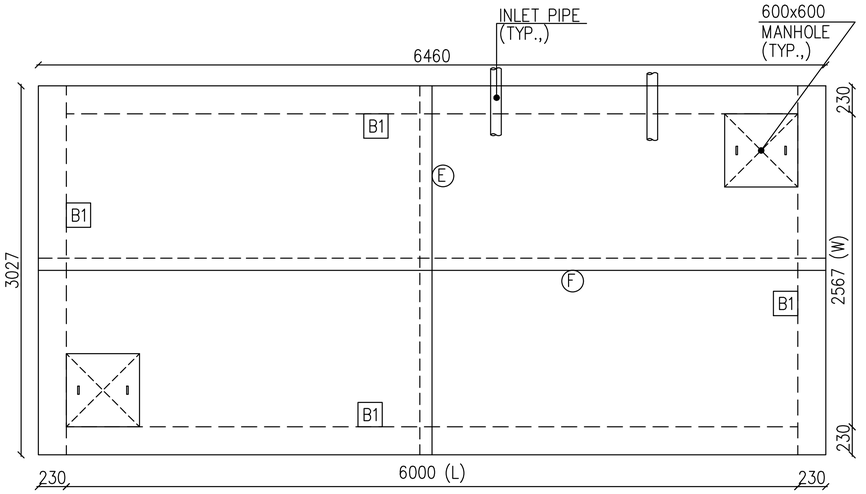
KAARVENS

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PLAN
(SCALE 1:50)




COVER SLAB & BEAM LAYOUT
(SCALE 1:50)

## GENERAL NOTES

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12. ALL SLABS SHALL BE PROVIDED WITH TOP DISTRIBUTORS OF Y8 @ 200 C/C.

## LEGENDS

- RCC WALL
- TOP REINFORCEMENT
- BOTTOM REINFORCEMENT

## ABBREVIATIONS

| | |
|---|---|
| Ld | – DEVELOPMENT LENGTH |
| N.T.S | – NOT OT SCALE |
| L | – LENGTH |
| W | – WIDTH |
| H | – HEIGHT |
| THK | – THICKNESS |
| BT | – BASE SLAB THK. |
| WT | – RCC WALL THK. |
| CT | – COVER SLAB THK. |

GOOD FOR CONSTRUCTION

## BASE SLAB (BT)

BASE SLAB
THICKNESS (BT): 230

| | | | |
|---|---|---|---|
| A | Y10 | @ | 125 C/C |
| B | Y10 | @ | 150 C/C |

## RCC WALL (WT)

WALL
THICKNESS (WT): 230

| | | | |
|---|---|---|---|
| C | Y10 | @ | 125 C/C |
| D | Y10 | @ | 150 C/C |

## COVER SLAB (CT)

COVER SLAB
THICKNESS (CT): 200

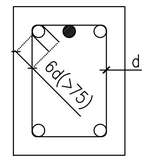
| | | | |
|---|---|---|---|
| E | Y12 | @ | 150 C/C |
| F | Y10 | @ | 150 C/C |

## SEWAGE COLLECTION TANK-1

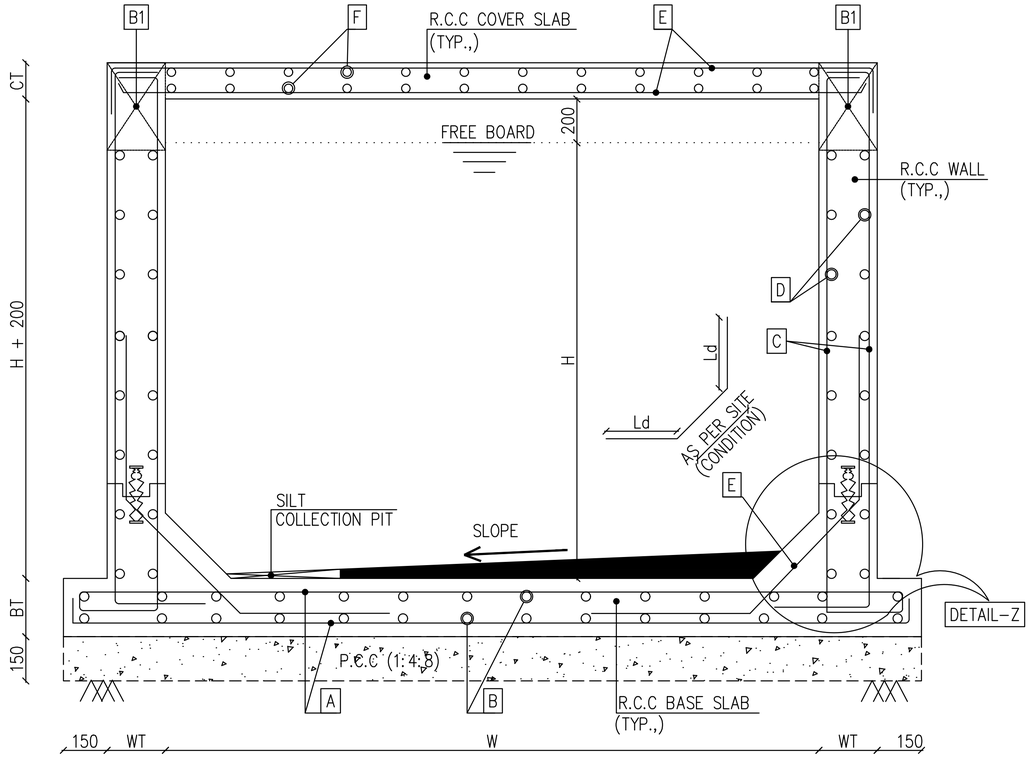
L – 6000
W – 2567
H – 2000
CAPACITY – 30,800 LITERS

## NOTE

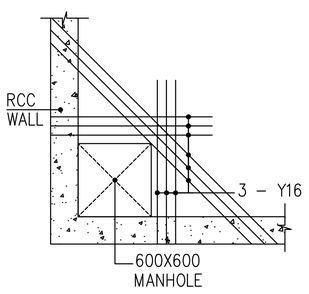
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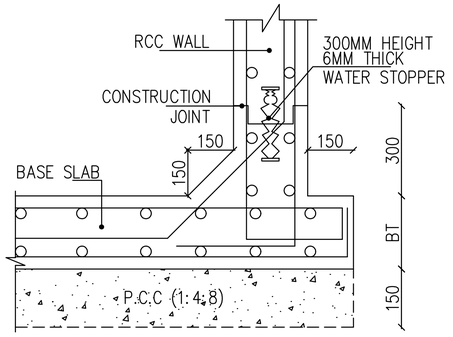

TYPICAL BEAM HOOK DETAILS



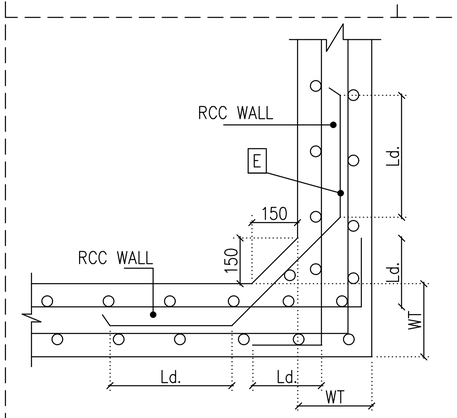

TYPICAL SECTION DETAILS
(N.T.S)




TYPICAL MANHOLE DETAIL
(N.T.S)




DETAIL -Z
(N.T.S)




TYPICAL RCC WALL JUNCTION DETAIL
(N.T.S)

## LIVE LOAD SCHEDULE

| DESCRIPTION | LIVE LOAD (kN/m²) |
|---|---|
| COVER SLAB | 5 |
| FILLING & VEHICLE LOAD CONSIDER | |

## BEAM DETAIL

| S No | Beam No | Beam Size | Beam Reinforcement Detail |
|---|---|---|---|
| 1 | B1 | 230x380 | 3 – Y12<br>Y8 @ 150c/c<br>3 – Y12 |

| REF. | DESCRIPTION | BY | DATE |
|---|---|---|---|

REVISIONS

CLIENT:
Morais Architect X.

PROJECT:
Proposed 3&2 BHK Apartment (LUXE).

TITLE:
Typical Sewage Collection Sump Layout and Details (1-2).

| DSGN | DRWN | CHKD | APPD | DATE | SHEET | SCALE |
|---|---|---|---|---|---|---|
| MV | TS | SKAK | SKAK | 14.05.26 | A3 | 1:100 |

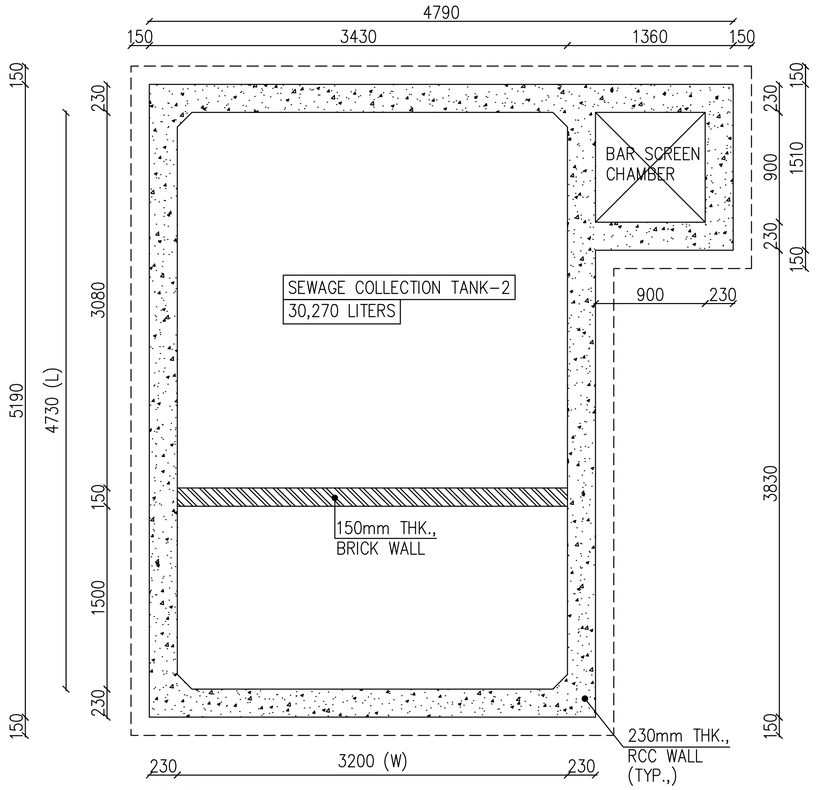
DWG. NO: MOS-25-04-RC-29-R0

STRUCTURAL CONSULTANT

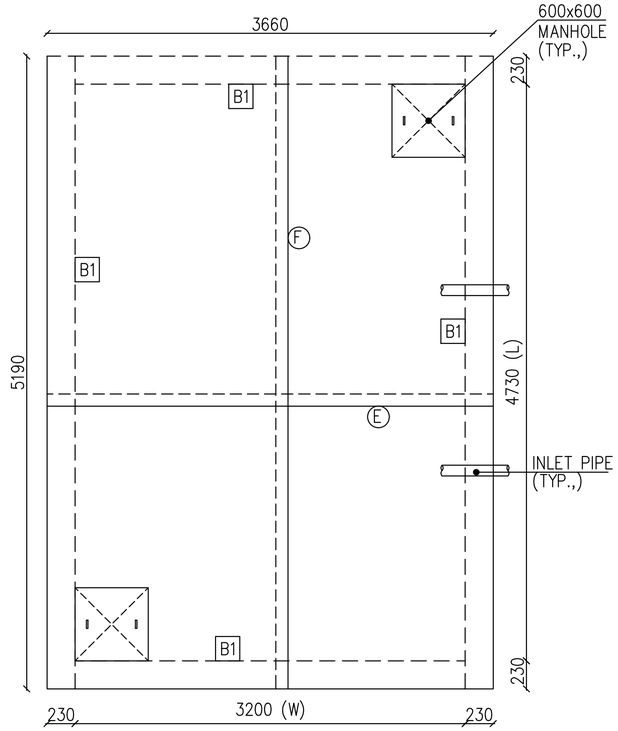
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PLAN
(SCALE 1:50)




COVER SLAB & BEAM LAYOUT
(SCALE 1:50)

## BEAM DETAIL

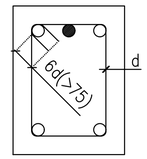
| S No | Beam No | Beam Size | Beam Reinforcement Detail |
|---|---|---|---|
| 1 | B1 | 230x380 | 3 – Y12<br>Y8 @ 150c/c<br>3 – Y12 |

## SEWAGE COLLECTION TANK-2

L – 4730
W – 3200
H – 2000
CAPACITY – 30,270 LITERS

## LIVE LOAD SCHEDULE

| DESCRIPTION | LIVE LOAD (kN/m²) |
|---|---|
| COVER SLAB | 5 |
| FILLING & VEHICLE LOAD CONSIDER | |




TYPICAL BEAM HOOK DETAILS

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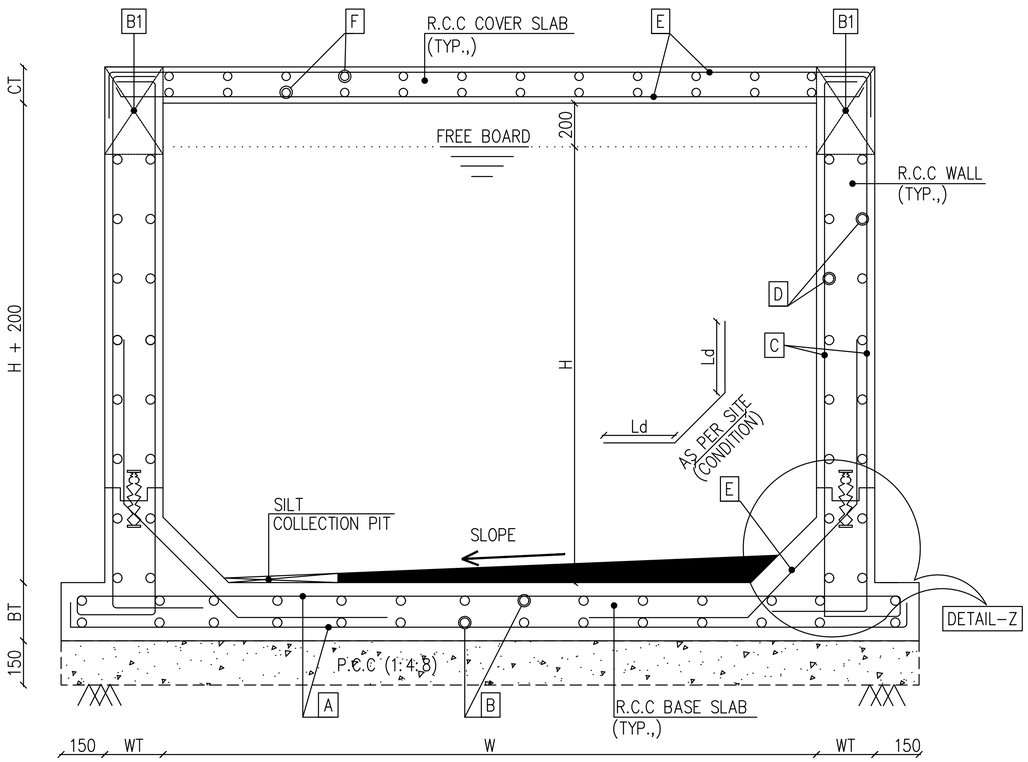
## LEGENDS

– RCC WALL
– TOP REINFORCEMENT
– BOTTOM REINFORCEMENT

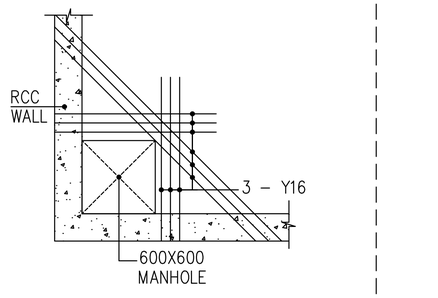
## ABBREVIATIONS

| | |
|---|---|
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| N.T.S | – NOT OT SCALE |
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| BT | – BASE SLAB THK. |
| WT | – RCC WALL THK. |
| CT | – COVER SLAB THK. |

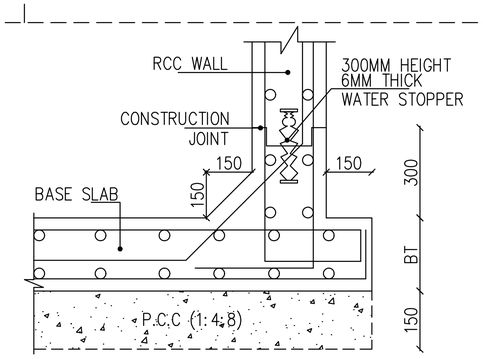
GOOD FOR CONSTRUCTION



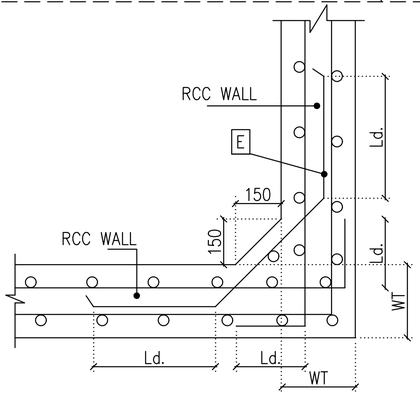

TYPICAL SECTION DETAILS
(N.T.S)




TYPICAL MANHOLE DETAIL
(N.T.S)




DETAIL –Z
(N.T.S)




TYPICAL RCC WALL JUNCTION DETAIL
(N.T.S)

## BASE SLAB (BT)

BASE SLAB
THICKNESS (BT): 230

| | | | |
|---|---|---|---|
| A | Y10 | @ | 125 C/C |
| B | Y10 | @ | 150 C/C |

## RCC WALL (WT)

WALL
THICKNESS (WT): 230

| | | | |
|---|---|---|---|
| C | Y10 | @ | 125 C/C |
| D | Y10 | @ | 150 C/C |

## COVER SLAB (CT)

COVER SLAB
THICKNESS (CT): 200

| | | | |
|---|---|---|---|
| E | Y12 | @ | 150 C/C |
| F | Y10 | @ | 150 C/C |

## NOTE

* INLET PIPE, MANHOLE LOCATION SHOWN FOR INDICATION ONLY. IT SHALL BE LOCATED AS PER THE SITE REQUIREMENT.
* FOR CLEANING & MAINTENANCE PURPOSE, SHALL BE ACCESSED WITH LADDER ONLY.

| REF. | DESCRIPTION | BY | DATE |
|---|---|---|---|
| | REVISIONS | | |

CLIENT:
Morais Architect X.

PROJECT:
Proposed 3&2 BHK Apartment (LUXE).

TITLE:
Typical Sewage Collection Sump Layout and Details (2-2).

| DSGN | DRWN | CHKD | APPD | DATE | SHEET | SCALE |
|---|---|---|---|---|---|---|
| MV | TS | SKAK | SKAK | 14.05.26 | A3 | 1:100 |

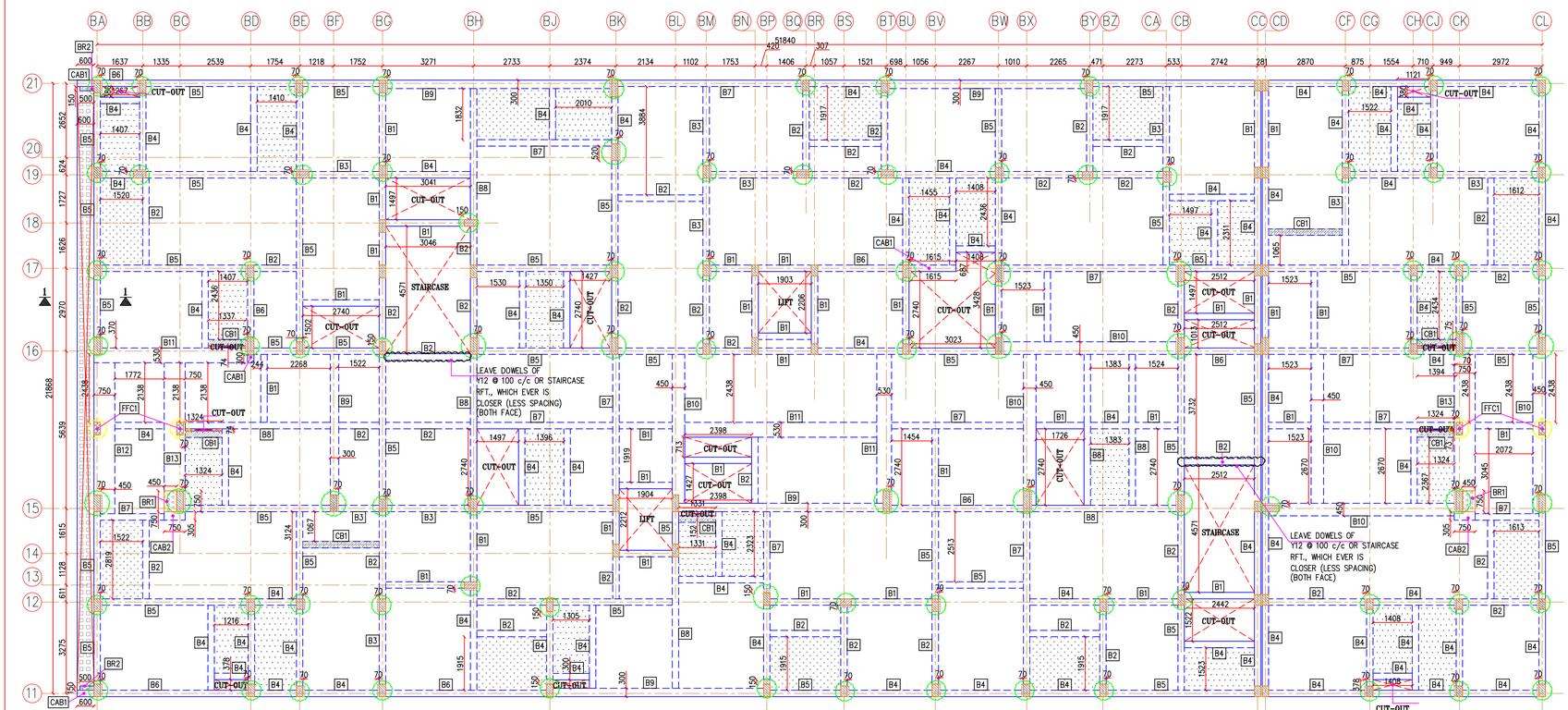
DWG. NO: MOS-25-04-RC-30-R0

STRUCTURAL CONSULTANT

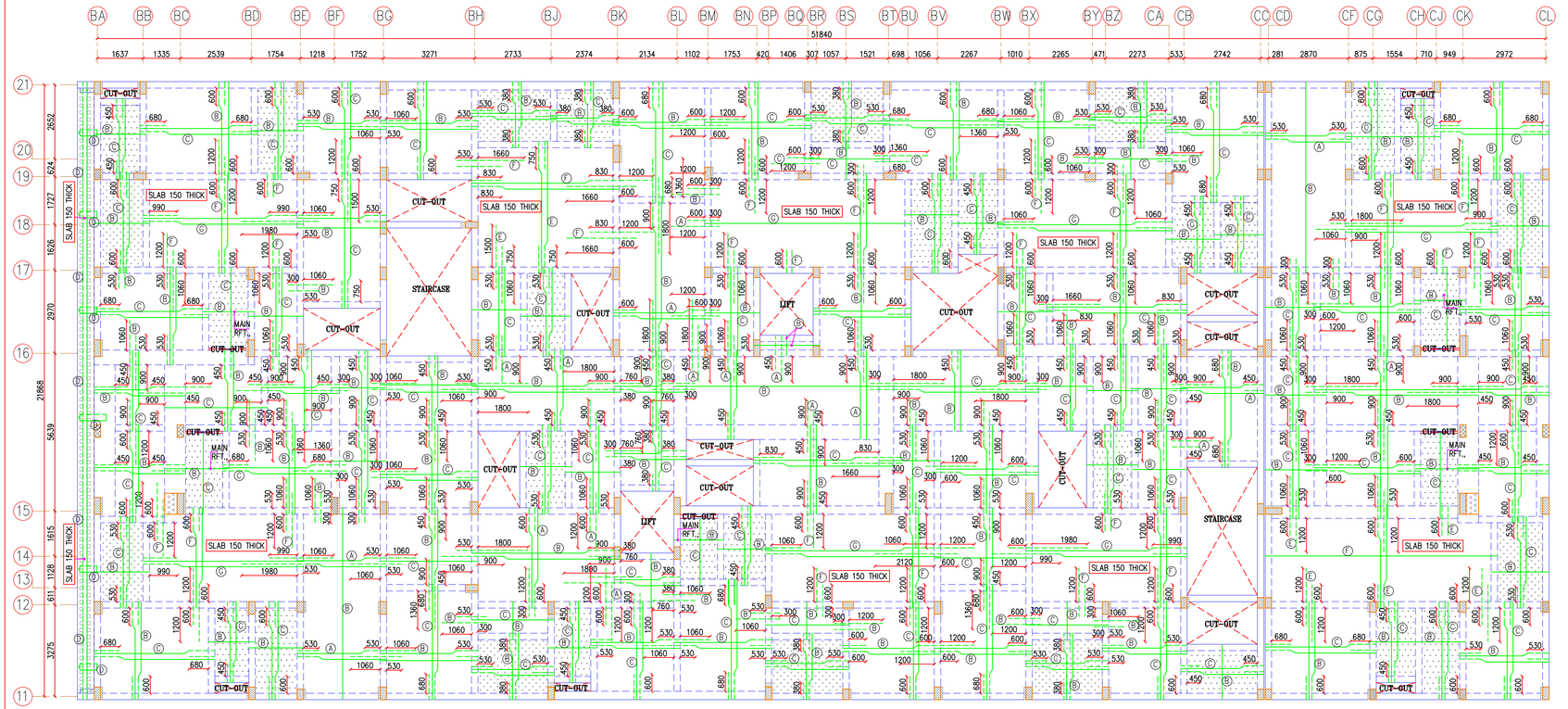
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FIRST FLOOR BEAM LAYOUT




FIRST FLOOR SLAB LAYOUT
(OTHER DETAILS ARE NOT SHOWN FOR CLARITY)

## BEAM DETAILS

| S No | Beam No | Beam Size | Section @ XX End span | Section @ YY Mid span |
|---|---|---|---|---|
| 1 | B1 | 230x300 | 3 – Y12<br>Y8 @ 150c/c<br>3 – Y12 | |
| 2 | B2 | 230x380 | 3 – Y12<br>Y8 @ 150c/c<br>3 – Y12 | |
| 3 | B3 | 230x380 | 2 – Y12 +<br>2 – Y12 (EXT)•<br>Y8 @ 150c/c<br>2 – Y12 | 2 – Y12<br>Y8 @ 175c/c<br>2 – Y12 +<br>2 – Y12 (EXT)• |
| 4 | B4 | 230x450 | 2 – Y16<br>Y8 @ 150c/c<br>2 – Y16 | |
| 5 | B5 | 230x450 | 3 – Y12 +<br>2 – Y16 (EXT)•<br>Y8 @ 150c/c<br>3 – Y12 | 3 – Y12<br>Y8 @ 175c/c<br>3 – Y12 +<br>2 – Y16 (EXT)• |
| 6 | B6/ CAB1 | 230x450 | 4 – Y16<br>Y8 @ 150c/c<br>3 – Y16 | |
| 7 | B7 | 230x450 | 2 – Y16 +<br>3 – Y16 (EXT)•<br>Y8 @ 150c/c<br>2 – Y16 | 2 – Y16<br>Y8 @ 175c/c<br>2 – Y16 +<br>3 – Y16 (EXT)• |
| 8 | B8 | 230x450 | 2 – Y20 +<br>2 – Y20 (EXT)•<br>Y8 @ 125c/c<br>2 – Y20 | 2 – Y20<br>Y8 @ 150c/c<br>2 – Y20 +<br>2 – Y20 (EXT)• |
| 9 | B9 | 300x450 | 5 – Y20<br>Y8 @ 150c/c<br>5 – Y20 | |
| 10 | B10 | 450x450 | 4 – Y20 +<br>4 – Y16 (EXT)•<br>2 – Y12 (SIDES)•<br>Y8 @ 150c/c<br>(4 LEGGED)<br>4 – Y20 | 4 – Y20<br>Y8 @ 175c/c<br>(4 LEGGED)<br>2 – Y12 (SIDES)•<br>4 – Y20 +<br>4 – Y16 (EXT)• |
| 11 | B11 | 530x450 | 4 – Y20 +<br>4 – Y20 (EXT)•<br>2 – Y12 (SIDES)•<br>Y8 @ 150c/c<br>(4 LEGGED)<br>4 – Y20 | 4 – Y20<br>Y8 @ 175c/c<br>(4 LEGGED)<br>2 – Y12 (SIDES)•<br>4 – Y20 +<br>4 – Y20 (EXT)• |
| 12 | B12 | 750x450 | 6 – Y20 +<br>6 – Y16 (EXT)•<br>2 – Y16 (SIDES)•<br>Y10 @ 150c/c<br>(4 LEGGED)<br>6 – Y20 | 6 – Y20<br>Y10 @ 175c/c<br>(4 LEGGED)<br>2 – Y16 (SIDES)•<br>6 – Y20 +<br>6 – Y16 (EXT)• |
| 13 | B13 | 750x450 | 6 – Y25 +<br>6 – Y20 (EXT)•<br>2 – Y16 (SIDES)•<br>Y10 @ 125c/c<br>(4 LEGGED)<br>6 – Y25 | 6 – Y25<br>Y10 @ 150c/c<br>(4 LEGGED)<br>2 – Y16 (SIDES)•<br>6 – Y25 +<br>6 – Y20 (EXT)• |
| 14 | CAB2 | 750x450 | 6 – Y25<br>Y10 @ 125c/c<br>(4 LEGGED)<br>6 – Y25 | |
| 15 | CB1 | 230x125 | 6 – Y12<br>Y8 @ 150c/c | |

## FLOATING COLUMN DETAILS

| S No | Column No | Column Size | Column Reinforcement Detail | Rings Detail (R–Ring) | Hooks Detail (H–Hook) |
|---|---|---|---|---|---|
| 1 | FFC1 | 230 x 380 | 8 – Y16<br>Y8 @ 150c/c | R–1 | –N.A.– |

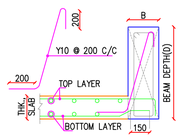
## SLAB DETAILS

THICKNESS :125 (UNLESS NOTED)

| | |
|---|---|
| A | Y8 @ 150 C/C |
| B | Y8 @ 175 C/C |
| C | Y8 @ 200 C/C |
| D | Y10 @ 125 C/C |
| E | Y10 @ 150 C/C |
| F | Y10 @ 175 C/C |
| G | Y10 @ 200 C/C |

## LIVE LOAD SCHEDULE

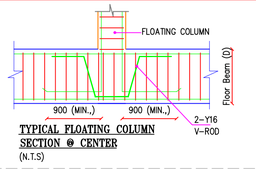
| DESCRIPTION | LIVE LOAD (kN/m²) |
|---|---|
| FIRST FLOOR | 2 |



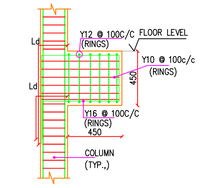

INVERTED BEAM/SUNKEN SLAB WITH CUT OFF REINFORCEMENT

## LEGENDS

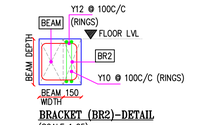
- FULL HEIGHT COLUMN
- FLOATING COLUMN FROM FIRST FLOOR
- 230mm SUNKEN
- 100mm SUNKEN
- BRACKET
- CONCEALED BEAM
- LIGHT WEIGHT BRICK WALL
- SLAB AT BEAM BOTTOM
- TOP REINFORCEMENT
- BOTTOM REINFORCEMENT



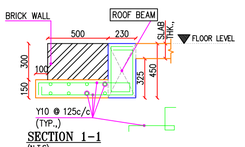

TYPICAL FLOATING COLUMN SECTION @ CENTER
(N.T.S)



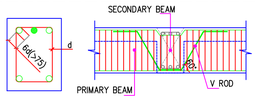

BRACKET (BR1)–DETAIL
(SCALE 1:25)




BRACKET (BR2)–DETAIL
(SCALE 1:25)




SECTION 1–1
(N.T.S)




TYPICAL BEAM HOOK DETAILS

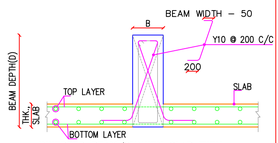
TYPICAL PRIMARY SECONDARY BEAM JUNCTION DETAIL
(N.T.S)

### PRE CAMBERS FOR BEAMS

PRE CAMBERS OF 0.4% OF THE SPAN BE PROVIDED FOR ALL HORIZONTAL STRUCTURAL MEMBERS SPAN EXCEEDING 5M (1.5M FOR CANTILEVER).

### NOTE

* ALL SUNKEN SLABS SHOULD BE FILLED ONLY WITH LIGHT WEIGHT FILLING MATERIAL (HEMALITE,VERMICULITE) OF UNIT WEIGHT 90 kg/m3 OR 1 kN/m2.




INVERTED BEAM/SUNKEN SLAB WITH CONTINUOUS SLAB REINFORCEMENT

### ABBREVIATIONS

| | |
|---|---|
| Ld | – DEVELOPMENT LENGTH |
| CAB | – CANTILEVER BEAM |
| BR | – BRACKET |
| N.T.S | – NOT TO SCALE |
| FFC | – FIRST FLOOR FLOATING COLUMN |
| LVL | – LEVEL |
| CB | – CONCEALED BEAM |

REVIEW COPY

| REF | DESCRIPTION | BY | DATE |
|---|---|---|---|
| | REVISIONS | | |

CLIENT: Morais Architect X.

PROJECT: Proposed 3&2 BHK Apartment (ASTRO).

TITLE: First Floor Slab, Beam Layout & Details.

| DSGN | DRWN | CHKD | APPD | DATE | SHEET | SCALE |
|---|---|---|---|---|---|---|
| JS | SP | SKAK | SKAK | 05.06.24 | A1 | 1:100 |

DWG. NO: S

### GENERAL NOTES

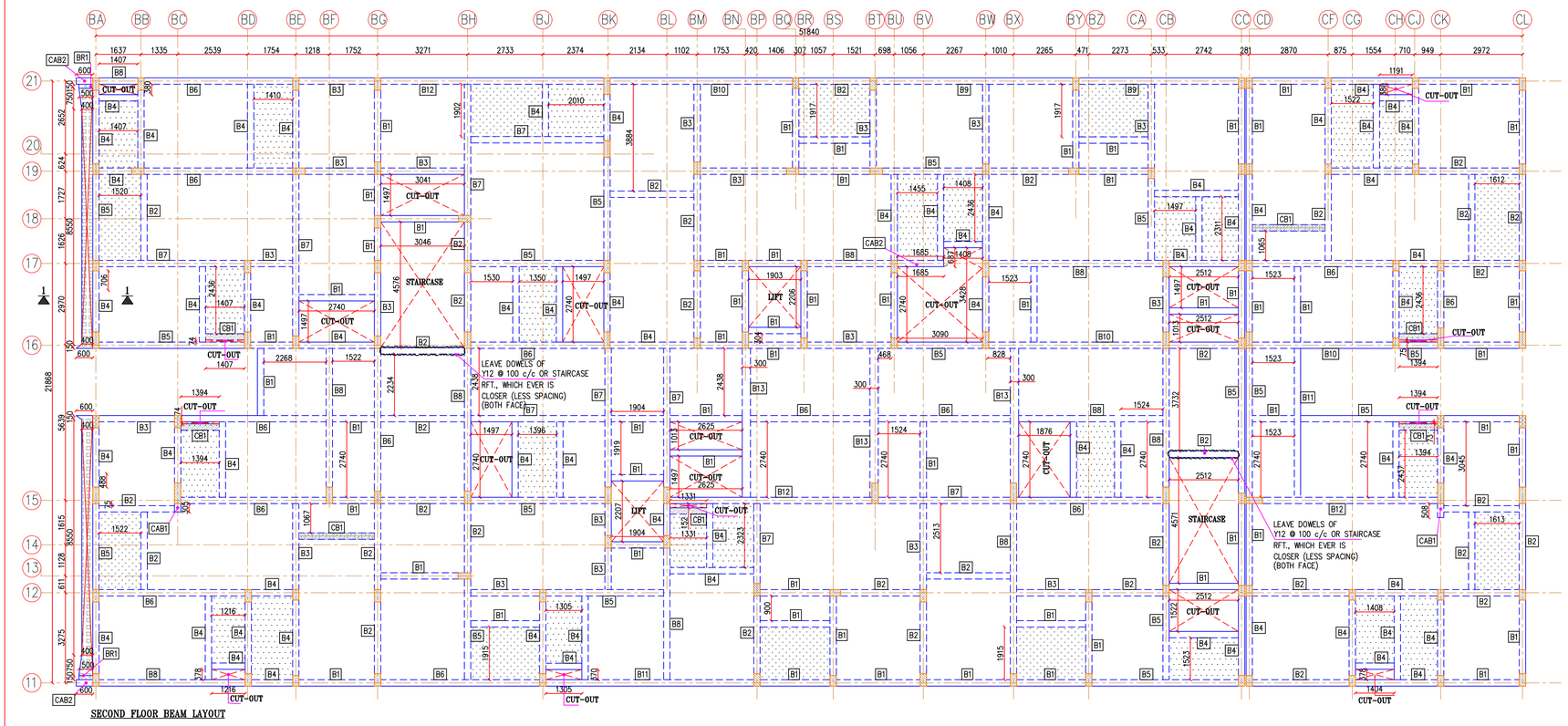
1. THIS DRAWING SHOULD BE READ ALONG WITH ARCHITECTURAL DRAWINGS.
2. ALL DIMENSIONS ARE IN MILLIMETERS.
3. ALL STRUCTURAL CONCRETE SHALL BE OF M25(1:1:2) GRADE CONFORMING TO IS:456.
4. ALL REINFORCEMENT(Y) SHALL BE H.Y.S.D. BARS OF GRADE Fe 550 CONFORMING TO IS:1786.
5. THE CLEAR COVER FOR REINFORCEMENT SHALL BE 12.5mm FOR SLAB, 25mm FOR BEAM & 40mm COLUMN
6. LAP LENGTH (Ld) SHALL BE 50*D (DIA OF BAR) FOR ALL BARS.
7. NOT MORE THAN 50% OF REINFORCEMENT SHALL BE LAPPED AT ANY PARTICULAR JUNCTION.
8. THIS DRAWING IS NOT TO BE SCALED ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED.
9. MINIMUM DEPTH OF SUNKEN SHALL BE 230mm.
10. ALL SLABS SHALL BE PROVIDED WITH TOP DISTRIBUTORS OF Y8 @ 200 C/C.
11. SPACER BAR TO BE PROVIDED IN BETWEEN TWO LAYERS OF REINFORCEMENT OF SAME DIA(MIN.,20mm) AT EVERY 1000 C/C.
12. THE SITE IN–CHARGE SHALL CHECK AND VERIFY ALL DIMENSIONS ON SITE BEFORE COMMENCEMENT OF WORKS AND ANY DISCREPANCIES SHALL BE REPORTED TO THE STRUCTURAL ENGINEER BEFORE EXECUTION.

STRUCTURAL CONSULTANT

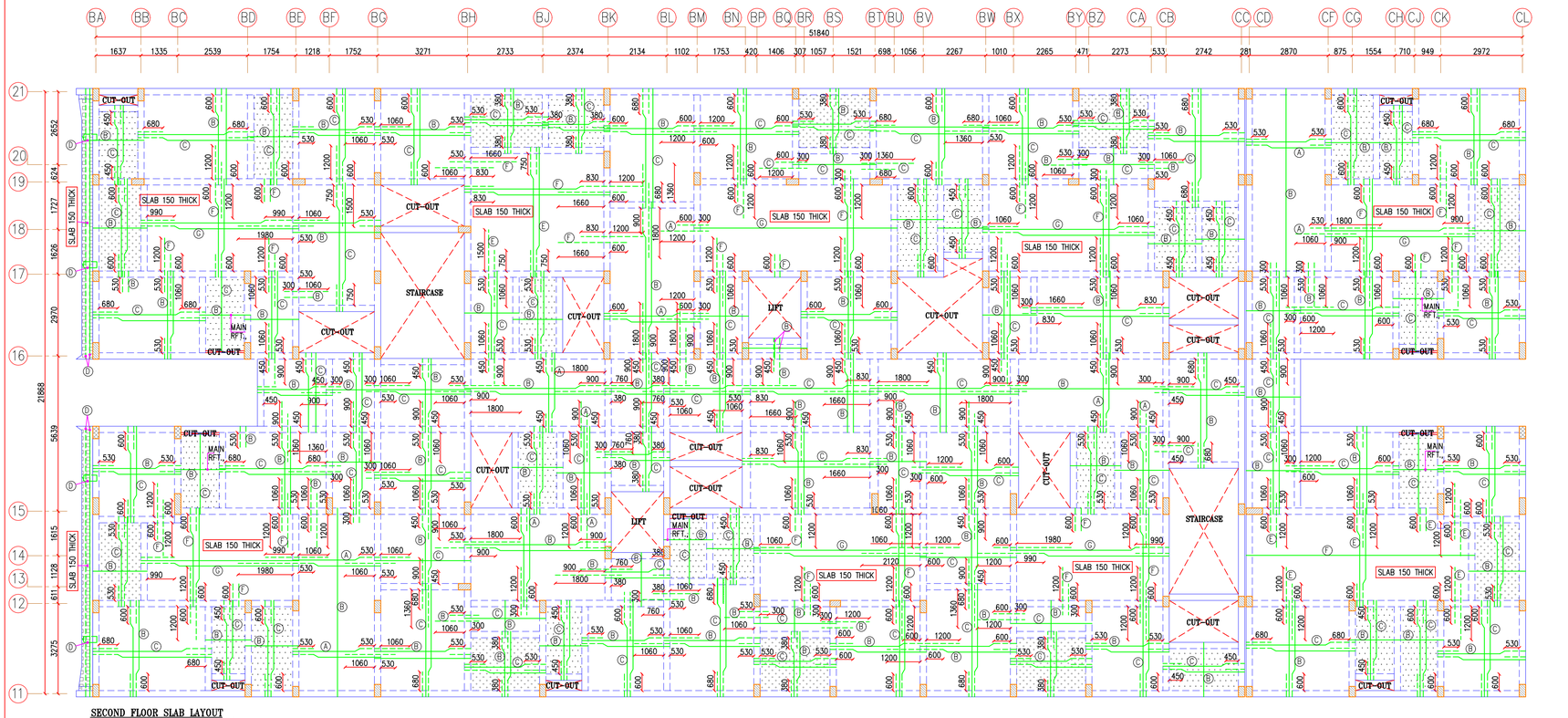
KAARVENS

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WEB : KAARVENS.COM

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KAARVENS STRUCTURAL CONSULTANCY'S SCOPE IS LIMITED TO THE DESIGN/DRAWING AS PER THE BIS CODAL PROVISION & IS NOT LIABLE FOR CONSTRUCTION/MATERIAL QUALITY & SAFE CONSTRUCTION PRACTICE.




SECOND FLOOR BEAM LAYOUT




SECOND FLOOR SLAB LAYOUT
(OTHER DETAILS ARE NOT SHOWN FOR CLARITY)

## BEAM DETAILS

| S No | Beam No | Beam Size | Section @ XX End span | Section @ YY Mid span |
|---|---|---|---|---|
| 1 | B1 | 230x300 | | 3 – Y12<br>Y8 @ 150c/c<br>3 – Y12 |
| 2 | B2 | 230x380 | | 3 – Y12<br>Y8 @ 150c/c<br>3 – Y12 |
| 3 | B3 | 230x380 | 2 – Y12 +<br>2 – Y16 (EXT)•<br>Y8 @ 150c/c<br>2 – Y12 | 2 – Y12<br>Y8 @ 175c/c<br>2 – Y12 +<br>2 – Y16 (EXT)• |
| 4 | B4/ CAB1 | 230x450 | | 2 – Y16<br>Y8 @ 150c/c<br>2 – Y16 |
| 5 | B5 | 230x450 | 3 – Y12 +<br>2 – Y12 (EXT)•<br>Y8 @ 150c/c<br>3 – Y12 | 3 – Y12<br>Y8 @ 175c/c<br>3 – Y12 +<br>2 – Y12 (EXT)• |
| 6 | B6 | 230x450 | 2 – Y16 +<br>3 – Y12 (EXT)•<br>Y8 @ 150c/c<br>2 – Y16 | 2 – Y16<br>Y8 @ 175c/c<br>2 – Y16 +<br>3 – Y12 (EXT)• |
| 7 | B7 | 230x450 | 2 – Y16 +<br>3 – Y16 (EXT)•<br>Y8 @ 150c/c<br>2 – Y16 | 2 – Y16<br>Y8 @ 175c/c<br>2 – Y16 +<br>3 – Y16 (EXT)• |
| 8 | B8 | 230x450 | 3 – Y16 +<br>3 – Y16 (EXT)•<br>Y8 @ 150c/c<br>3 – Y16 | 3 – Y16<br>Y8 @ 175c/c<br>3 – Y16 +<br>3 – Y16 (EXT)• |
| 9 | B9 | 230x600 | | 3 – Y16<br>Y8 @ 150c/c<br>3 – Y16 |
| 10 | B10 | 230x600 | 2 – Y16 +<br>2 – Y16 (EXT)•<br>Y8 @ 150c/c<br>2 – Y16 | 2 – Y16<br>Y8 @ 175c/c<br>2 – Y16 +<br>2 – Y16 (EXT)• |
| 11 | B11 | 230x600 | 2 – Y16 +<br>3 – Y16 (EXT)•<br>Y8 @ 150c/c<br>2 – Y16 | 2 – Y16<br>Y8 @ 175c/c<br>2 – Y16 +<br>3 – Y16 (EXT)• |
| 12 | B12 | 230x600 | 2 – Y20 +<br>2 – Y20 (EXT)•<br>Y8 @ 150c/c<br>2 – Y20 | 2 – Y20<br>Y8 @ 175c/c<br>2 – Y20 +<br>2 – Y20 (EXT)• |
| 13 | B13 | 300x450 | 3 – Y20 +<br>3 – Y20 (EXT)•<br>Y8 @ 125c/c<br>3 – Y20 | 3 – Y20<br>Y8 @ 150c/c<br>3 – Y20 +<br>3 – Y20 (EXT)• |
| 14 | CAB2 | 230x450 | | 3 – Y16<br>Y8 @ 150c/c<br>3 – Y16 |
| 15 | CB1 | 230x125 | | 6 – Y12<br>Y8 @ 150c/c |

## SLAB DETAILS

THICKNESS :125
(UNLESS NOTED)

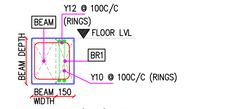
| | | |
|---|---|---|
| A | Y8 | @ 150 C/C |
| B | Y8 | @ 175 C/C |
| C | Y8 | @ 200 C/C |
| D | Y10 | @ 125 C/C |
| E | Y10 | @ 150 C/C |
| F | Y10 | @ 175 C/C |
| G | Y10 | @ 200 C/C |

## LIVE LOAD SCHEDULE

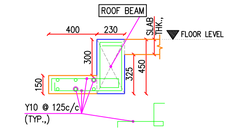
| DESCRIPTION | LIVE LOAD (kN/m²) |
|---|---|
| SECOND FLOOR | 2 |

## LEGENDS

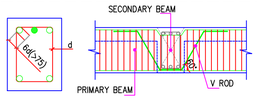
- FULL HEIGHT COLUMN
- FLOATING COLUMN FROM FIRST FLOOR
- 230mm SUNKEN
- 100mm SUNKEN
- BRACKET
- CONCEALED BEAM
- LIGHT WEIGHT BRICK WALL
- SLAB AT BEAM BOTTOM
- TOP REINFORCEMENT
- BOTTOM REINFORCEMENT




BRACKET (BR1)–DETAIL
(SCALE 1:25)




SECTION 1-1
(N.T.S)




TYPICAL BEAM HOOK DETAILS

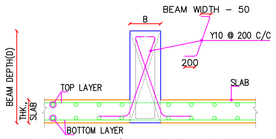
TYPICAL PRIMARY SECONDARY BEAM JUNCTION DETAIL
(N.T.S)

### PRE CAMBERS FOR BEAMS

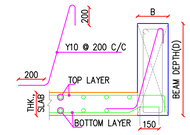
PRE CAMBERS OF 0.4% OF THE SPAN BE PROVIDED FOR ALL HORIZONTAL STRUCTURAL MEMBERS SPAN EXCEEDING 5M (1.5M FOR CANTILEVER).

### NOTE

* ALL SUNKEN SLABS SHOULD BE FILLED ONLY WITH LIGHT WEIGHT FILLING MATERIAL (HEMALITE,VERMICULITE) OF UNIT WEIGHT 90 kg/m3 OR 1 kN/m2.




INVERTED BEAM/SUNKEN SLAB WITH CONTINUOUS SLAB REINFORCEMENT




INVERTED BEAM/SUNKEN SLAB WITH CUT OFF REINFORCEMENT

### ABBREVIATIONS

| | | |
|---|---|---|
| Ld | – | DEVELOPMENT LENGTH |
| CAB | – | CANTILEVER BEAM |
| BR | – | BRACKET |
| N.T.S | – | NOT TO SCALE |
| LVL | – | LEVEL |
| CB | – | CONCEALED BEAM |

### GENERAL NOTES

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7. NOT MORE THAN 50% OF REINFORCEMENT SHALL BE LAPPED AT ANY PARTICULAR JUNCTION.
8. THIS DRAWING IS NOT TO BE SCALED ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED.
9. MINIMUM DEPTH OF SUNKEN SHALL BE 230mm.
10. ALL SLABS SHALL BE PROVIDED WITH TOP DISTRIBUTORS OF Y8 @ 200 C/C.
11. SPACER BAR TO BE PROVIDED IN BETWEEN TWO LAYERS OF REINFORCEMENT OF SAME DIA(MIN.,20mm) AT EVERY 1000 C/C.
12. THE SITE IN-CHARGE SHALL CHECK AND VERIFY ALL DIMENSIONS ON SITE BEFORE COMMENCEMENT OF WORKS AND ANY DISCREPANCIES SHALL BE REPORTED TO THE STRUCTURAL ENGINEER BEFORE EXECUTION.

REVIEW COPY

| REF | DESCRIPTION | BY | DATE |
|---|---|---|---|
| | REVISIONS | | |

CLIENT: Morais Architect X.

PROJECT: Proposed 3&2 BHK Apartment (ASTRO).

TITLE: Second Floor Slab, Beam Layout & Details.

| DSGN | DRWN | CHKD | APPD | DATE | SHEET | SCALE |
|---|---|---|---|---|---|---|
| JS | SP | SKAK | SKAK | 03.06.26 | A1 | 1:100 |

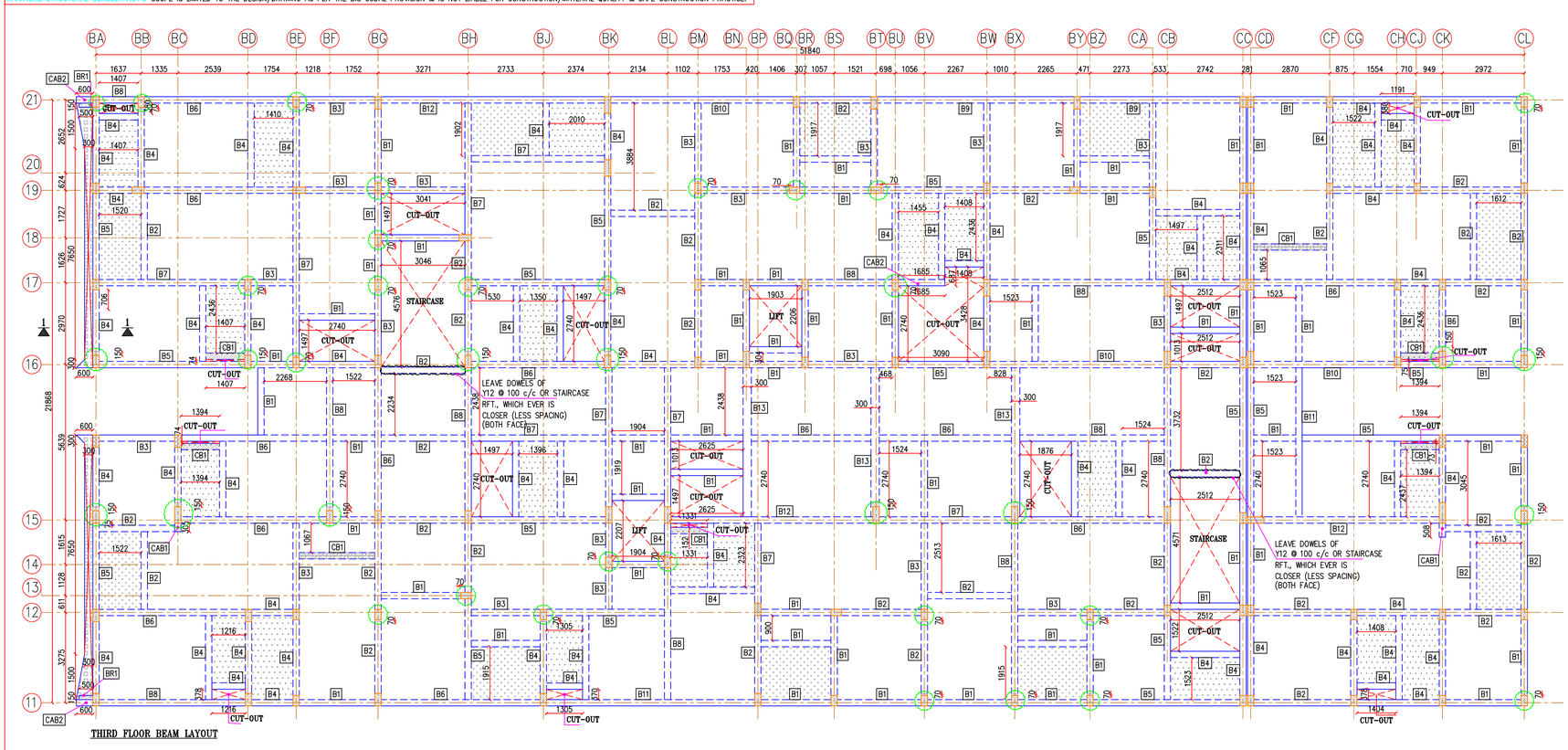
DWG. NO:

STRUCTURAL CONSULTANT

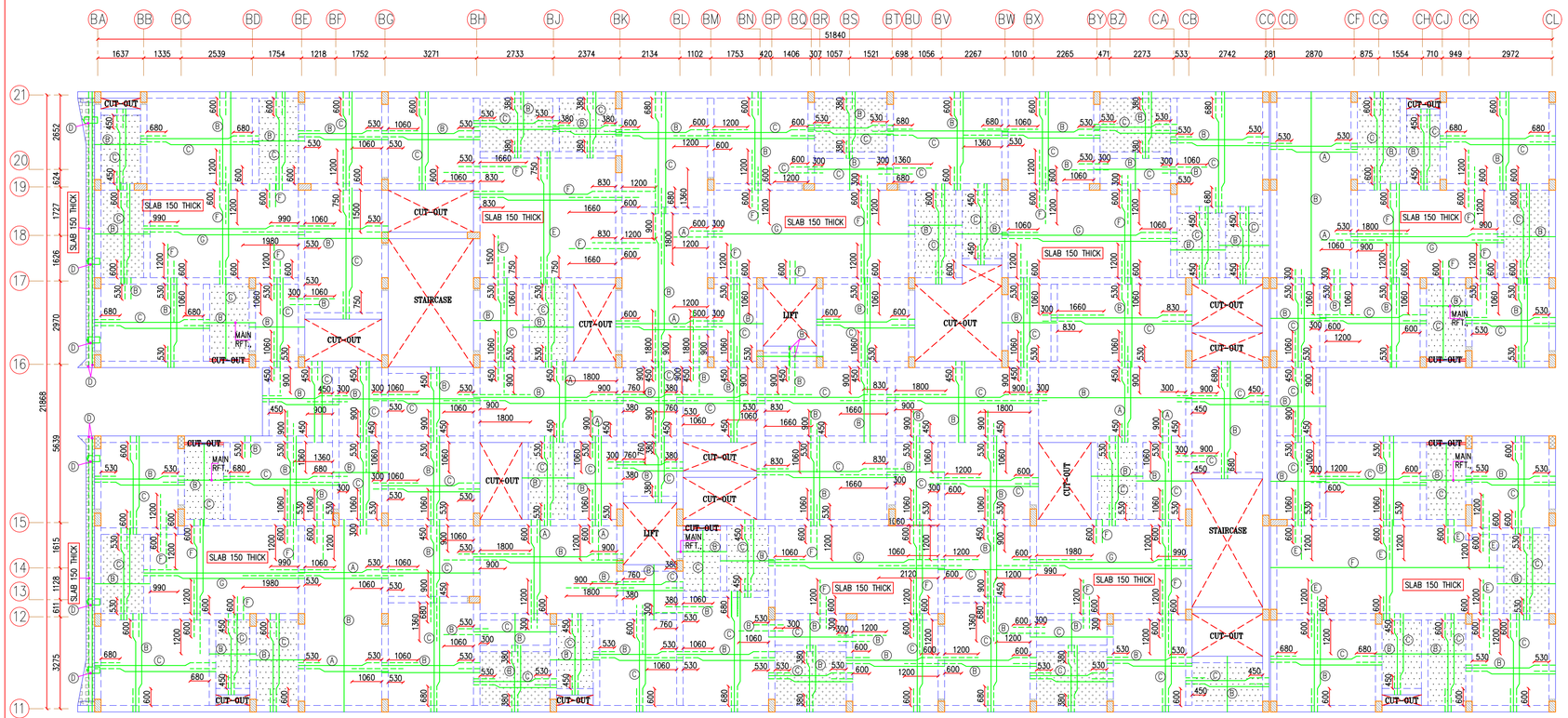
KAARVENS

Er. S.K.ARUN KAMARAJ, ME (Struct.),
KAARVENS STRUCTURAL CONSULTANCY,
41, BR NAGAR, 3RD STREET,
KOTHARI LAYOUT, RAMANATHAPURAM,
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M:+91-9894215019, M:+91-8270005019
E-MAIL : skarun@kaarvens.com
WEB : KAARVENS.COM

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THIRD FLOOR BEAM LAYOUT




THIRD FLOOR SLAB LAYOUT
(OTHER DETAILS ARE NOT SHOWN FOR CLARITY)

## BEAM DETAILS

| S No | Beam No | Beam Size | Section @ XX End span | Section @ YY Mid span |
|---|---|---|---|---|
| 1 | B1 | 230x300 | | 3 – Y12<br>Y8 @ 150c/c<br>3 – Y12 |
| 2 | B2 | 230x380 | | 3 – Y12<br>Y8 @ 150c/c<br>3 – Y12 |
| 3 | B3 | 230x380 | 2 – Y12 +<br>2 – Y16 (EXT)•<br>Y8 @ 150c/c<br>2 – Y12 | 2 – Y12<br>Y8 @ 175c/c<br>2 – Y12 +<br>2 – Y16 (EXT)• |
| 4 | B4/ CAB1 | 230x450 | | 2 – Y16<br>Y8 @ 150c/c<br>2 – Y16 |
| 5 | B5 | 230x450 | 3 – Y12 +<br>2 – Y12 (EXT)•<br>Y8 @ 150c/c<br>3 – Y12 | 3 – Y12<br>Y8 @ 175c/c<br>3 – Y12 +<br>2 – Y12 (EXT)• |
| 6 | B6 | 230x450 | 2 – Y16 +<br>3 – Y12 (EXT)•<br>Y8 @ 150c/c<br>2 – Y16 | 2 – Y16<br>Y8 @ 175c/c<br>2 – Y16 +<br>3 – Y12 (EXT)• |
| 7 | B7 | 230x450 | 2 – Y16 +<br>3 – Y16 (EXT)•<br>Y8 @ 150c/c<br>2 – Y16 | 2 – Y16<br>Y8 @ 175c/c<br>2 – Y16 +<br>3 – Y16 (EXT)• |
| 8 | B8 | 230x450 | 3 – Y16 +<br>3 – Y16 (EXT)•<br>Y8 @ 150c/c<br>3 – Y16 | 3 – Y16<br>Y8 @ 175c/c<br>3 – Y16 +<br>3 – Y16 (EXT)• |
| 9 | B9 | 230x600 | | 3 – Y16<br>Y8 @ 150c/c<br>3 – Y16 |
| 10 | B10 | 230x600 | 2 – Y16 +<br>2 – Y16 (EXT)•<br>Y8 @ 150c/c<br>2 – Y16 | 2 – Y16<br>Y8 @ 175c/c<br>2 – Y16 +<br>2 – Y16 (EXT)• |
| 11 | B11 | 230x600 | 2 – Y16 +<br>3 – Y16 (EXT)•<br>Y8 @ 150c/c<br>2 – Y16 | 2 – Y16<br>Y8 @ 175c/c<br>2 – Y16 +<br>3 – Y16 (EXT)• |
| 12 | B12 | 230x600 | 2 – Y20 +<br>2 – Y20 (EXT)•<br>Y8 @ 150c/c<br>2 – Y20 | 2 – Y20<br>Y8 @ 175c/c<br>2 – Y20 +<br>2 – Y20 (EXT)• |
| 13 | B13 | 300x450 | 3 – Y20 +<br>3 – Y20 (EXT)•<br>Y8 @ 125c/c<br>3 – Y20 | 3 – Y20<br>Y8 @ 150c/c<br>3 – Y20 +<br>3 – Y20 (EXT)• |
| 14 | CAB2 | 230x450 | | 3 – Y16<br>Y8 @ 150c/c<br>3 – Y16 |
| 15 | CB1 | 230x125 | | 6 – Y12<br>Y8 @ 150c/c |

## SLAB DETAILS

THICKNESS :125 (UNLESS NOTED)

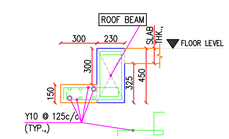
| | |
|---|---|
| A | Y8 @ 150 C/C |
| B | Y8 @ 175 C/C |
| C | Y8 @ 200 C/C |
| D | Y10 @ 125 C/C |
| E | Y10 @ 150 C/C |
| F | Y10 @ 175 C/C |
| G | Y10 @ 200 C/C |

## LIVE LOAD SCHEDULE

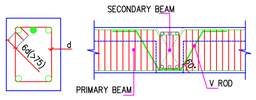
| DESCRIPTION | LIVE LOAD (kN/m²) |
|---|---|
| THIRD FLOOR | 2 |




BRACKET (BR1)–DETAIL
(SCALE 1:25)




SECTION 1-1
(N.T.S)




TYPICAL BEAM HOOK DETAILS

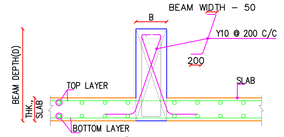
TYPICAL PRIMARY SECONDARY BEAM JUNCTION DETAIL
(N.T.S)

### PRE CAMBERS FOR BEAMS

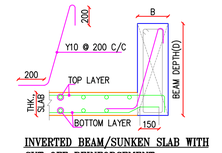
PRE CAMBERS OF 0.4% OF THE SPAN BE PROVIDED FOR ALL HORIZONTAL STRUCTURAL MEMBERS SPAN EXCEEDING 5M (1.5M FOR CANTILEVER).

### NOTE

* ALL SUNKEN SLABS SHOULD BE FILLED ONLY WITH LIGHT WEIGHT FILLING MATERIAL (HEMALITE,VERMICULITE) OF UNIT WEIGHT 90 kg/m3 OR 1 kN/m2.




INVERTED BEAM/SUNKEN SLAB WITH CONTINUOUS SLAB REINFORCEMENT




INVERTED BEAM/SUNKEN SLAB WITH CUT OFF REINFORCEMENT

### ABBREVIATIONS

| | |
|---|---|
| Ld | – DEVELOPMENT LENGTH |
| CAB | – CANTILEVER BEAM |
| BR | – BRACKET |
| N.T.S | – NOT TO SCALE |
| LVL | – LEVEL |
| CB | – CONCEALED BEAM |

### LEGENDS

- – FULL HEIGHT COLUMN
- – FLOATING COLUMN FROM FIRST FLOOR
- – 230mm SUNKEN
- – 100mm SUNKEN
- – BRACKET
- – CONCEALED BEAM
- – LIGHT WEIGHT BRICK WALL
- – SLAB AT BEAM BOTTOM
- – TOP REINFORCEMENT
- – BOTTOM REINFORCEMENT

### GENERAL NOTES

1. THIS DRAWING SHOULD BE READ ALONG WITH ARCHITECTURAL DRAWINGS.
2. ALL DIMENSIONS ARE IN MILLIMETERS.
3. ALL STRUCTURAL CONCRETE SHALL BE OF M25(1:1:2) GRADE CONFORMING TO IS:456.
4. ALL REINFORCEMENT(Y) SHALL BE H.Y.S.D. BARS OF GRADE Fe 550 CONFORMING TO IS:1786.
5. THE CLEAR COVER FOR REINFORCEMENT SHALL BE 12.5mm FOR SLAB & 25mm FOR BEAM.
6. LAP LENGTH (Ld) SHALL BE 50*Ø (DIA OF BAR) FOR ALL BARS.
7. NOT MORE THAN 50% OF REINFORCEMENT SHALL BE LAPPED AT ANY PARTICULAR JUNCTION.
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9. MINIMUM DEPTH OF SUNKEN SHALL BE 230mm.
10. ALL SLABS SHALL BE PROVIDED WITH TOP DISTRIBUTORS OF Y8 @ 200 C/C.
11. SPACER BAR TO BE PROVIDED IN BETWEEN TWO LAYERS OF REINFORCEMENT OF SAME DIA(MIN.,20mm) AT EVERY 1000 C/C.
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REVIEW COPY

| REF | DESCRIPTION | BY | DATE |
|---|---|---|---|
| | REVISIONS | | |

CLIENT: Morais Architect X.

PROJECT: Proposed 3&2 BHK Apartment (ASTRO).

TITLE: Third Floor Slab, Beam Layout & Details.

| DSGN | DRWN | CHKD | APPD | DATE | SHEET | SCALE |
|---|---|---|---|---|---|---|
| JS | SP | SKAK | SKAK | 05.06.24 | A1 | 1:100 |

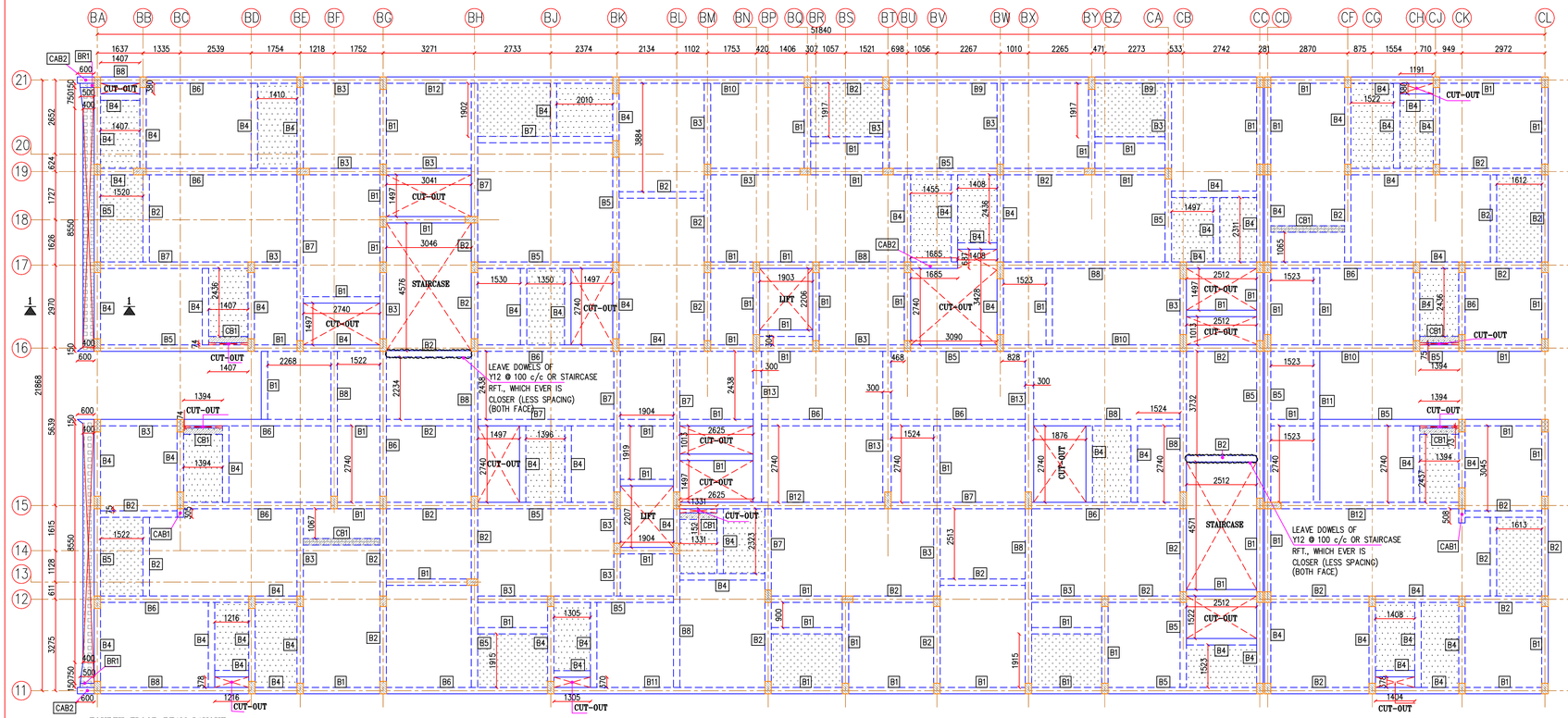
DWG. NO: S | | | | | | | | | | | | | | |

### STRUCTURAL CONSULTANT

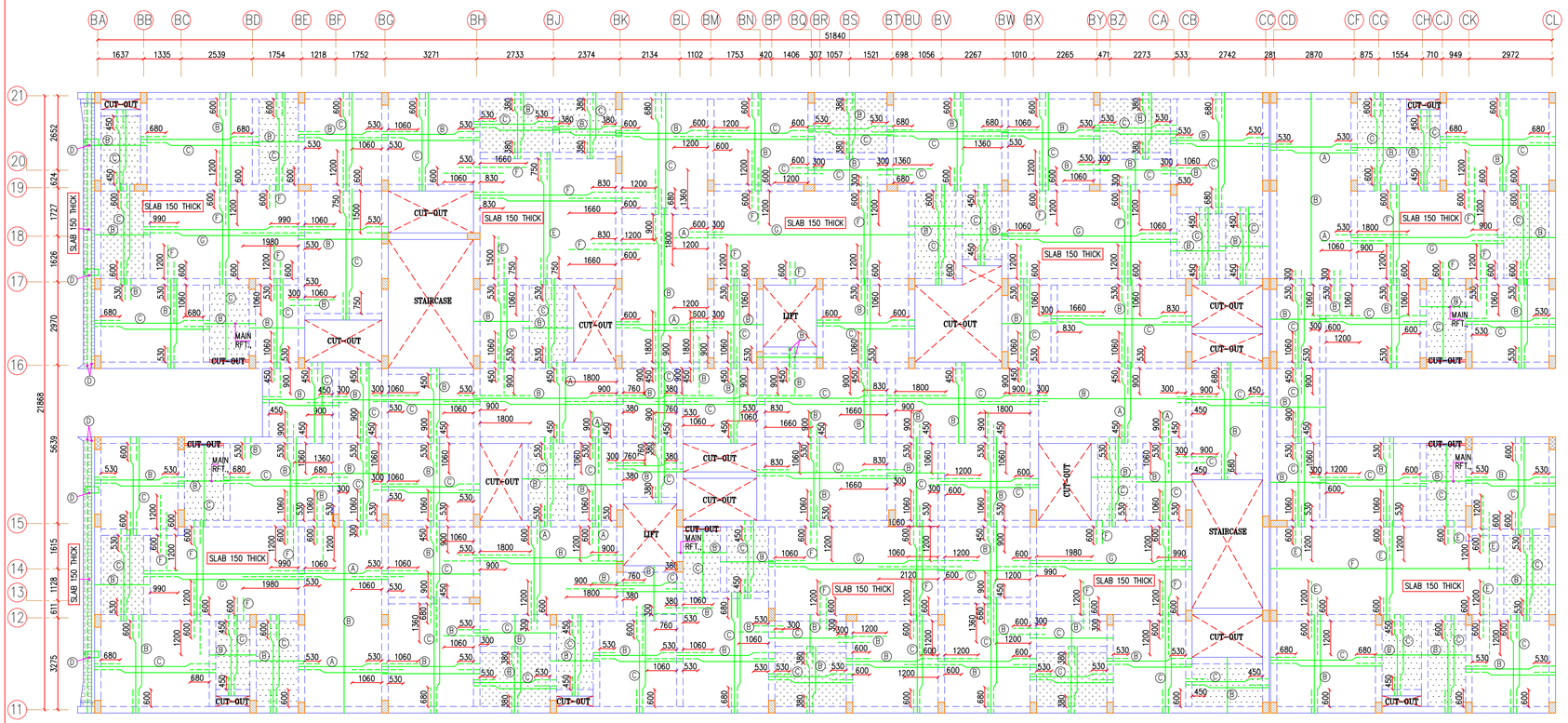
KAARVENS

Er. S.K.ARUN KAMARAJ, ME (Struct.),
KAARVENS STRUCTURAL CONSULTANCY,
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KOTHARI LAYOUT, RAMANATHAPURAM,
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FOURTH FLOOR BEAM LAYOUT




FOURTH FLOOR SLAB LAYOUT
(OTHER DETAILS ARE NOT SHOWN FOR CLARITY)

## BEAM DETAILS

| S.No | Beam No | Beam Size | Section @ XX End span | Section @ YY Mid span |
|---|---|---|---|---|
| 1 | B1 | 230x300 | | 3 – Y12<br>Y8 @ 150c/c<br>3 – Y12 |
| 2 | B2 | 230x380 | | 3 – Y12<br>Y8 @ 150c/c<br>3 – Y12 |
| 3 | B3 | 230x380 | 2 – Y12 +<br>2 – Y16 (EXT)•<br>Y8 @ 150c/c<br>2 – Y12 | 2 – Y12<br>Y8 @ 175c/c<br>2 – Y12 +<br>2 – Y16 (EXT)• |
| 4 | B4/ CAB1 | 230x450 | | 2 – Y16<br>Y8 @ 150c/c<br>2 – Y16 |
| 5 | B5 | 230x450 | 3 – Y12 +<br>2 – Y12 (EXT)•<br>Y8 @ 150c/c<br>3 – Y12 | 3 – Y12<br>Y8 @ 175c/c<br>3 – Y12 +<br>2 – Y12 (EXT)• |
| 6 | B6 | 230x450 | 2 – Y16 +<br>3 – Y12 (EXT)•<br>Y8 @ 150c/c<br>2 – Y16 | 2 – Y16<br>Y8 @ 175c/c<br>2 – Y16 +<br>3 – Y12 (EXT)• |
| 7 | B7 | 230x450 | 2 – Y16 +<br>3 – Y16 (EXT)•<br>Y8 @ 150c/c<br>2 – Y16 | 2 – Y16<br>Y8 @ 175c/c<br>2 – Y16 +<br>3 – Y16 (EXT)• |
| 8 | B8 | 230x450 | 3 – Y16 +<br>3 – Y16 (EXT)•<br>Y8 @ 150c/c<br>3 – Y16 | 3 – Y16<br>Y8 @ 175c/c<br>3 – Y16 +<br>3 – Y16 (EXT)• |
| 9 | B9 | 230x600 | | 3 – Y16<br>Y8 @ 150c/c<br>3 – Y16 |
| 10 | B10 | 230x600 | 2 – Y16 +<br>2 – Y16 (EXT)•<br>Y8 @ 150c/c<br>2 – Y16 | 2 – Y16<br>Y8 @ 175c/c<br>2 – Y16 +<br>2 – Y16 (EXT)• |
| 11 | B11 | 230x600 | 2 – Y16 +<br>3 – Y16 (EXT)•<br>Y8 @ 150c/c<br>2 – Y16 | 2 – Y16<br>Y8 @ 175c/c<br>2 – Y16 +<br>3 – Y16 (EXT)• |
| 12 | B12 | 230x600 | 2 – Y20 +<br>2 – Y20 (EXT)•<br>Y8 @ 150c/c<br>2 – Y20 | 2 – Y20<br>Y8 @ 175c/c<br>2 – Y20 +<br>2 – Y20 (EXT)• |
| 13 | B13 | 300x450 | 3 – Y20 +<br>3 – Y20 (EXT)•<br>Y8 @ 125c/c<br>3 – Y20 | 3 – Y20<br>Y8 @ 150c/c<br>3 – Y20 +<br>3 – Y20 (EXT)• |
| 14 | CAB2 | 230x450 | | 3 – Y16<br>Y8 @ 150c/c<br>3 – Y16 |
| 15 | CB1 | 230x125 | | 6 – Y12<br>Y8 @ 150c/c |

## SLAB DETAILS

THICKNESS :125
(UNLESS NOTED)

| | |
|---|---|
| A | Y8 @ 150 C/C |
| B | Y8 @ 175 C/C |
| C | Y8 @ 200 C/C |
| D | Y10 @ 125 C/C |
| E | Y10 @ 150 C/C |
| F | Y10 @ 175 C/C |
| G | Y10 @ 200 C/C |

## LIVE LOAD SCHEDULE

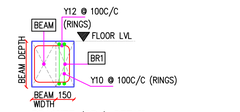
| DESCRIPTION | LIVE LOAD (kN/m²) |
|---|---|
| FOURTH FLOOR | 2 |

## LEGENDS

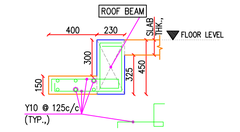
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- FLOATING COLUMN FROM FIRST FLOOR
- 230mm SUNKEN
- 100mm SUNKEN
- BRACKET
- CONCEALED BEAM
- LIGHT WEIGHT BRICK WALL
- SLAB AT BEAM BOTTOM
- TOP REINFORCEMENT
- BOTTOM REINFORCEMENT

## GENERAL NOTES

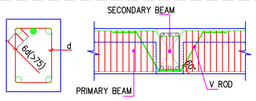
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BRACKET (BR1)-DETAIL
(SCALE 1:25)




SECTION 1-1
(N.T.S)




TYPICAL BEAM HOOK DETAILS

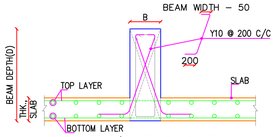
TYPICAL PRIMARY SECONDARY BEAM JUNCTION DETAIL
(N.T.S)

### PRE CAMBERS FOR BEAMS

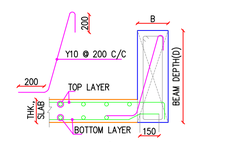
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INVERTED BEAM/SUNKEN SLAB WITH CONTINUOUS SLAB REINFORCEMENT




INVERTED BEAM/SUNKEN SLAB WITH CUT OFF REINFORCEMENT

### ABBREVIATIONS

| | |
|---|---|
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| CAB | – CANTILEVER BEAM |
| BR | – BRACKET |
| N.T.S | – NOT TO SCALE |
| LVL | – LEVEL |
| CB | – CONCEALED BEAM |

REVIEW COPY

| REF | DESCRIPTION | BY | DATE |
|---|---|---|---|
| REVISIONS | | | |

CLIENT: Morais Architect X.

PROJECT: Proposed 3&2 BHK Apartment (ASTRO).

TITLE: Fourth Floor Slab, Beam Layout & Details.

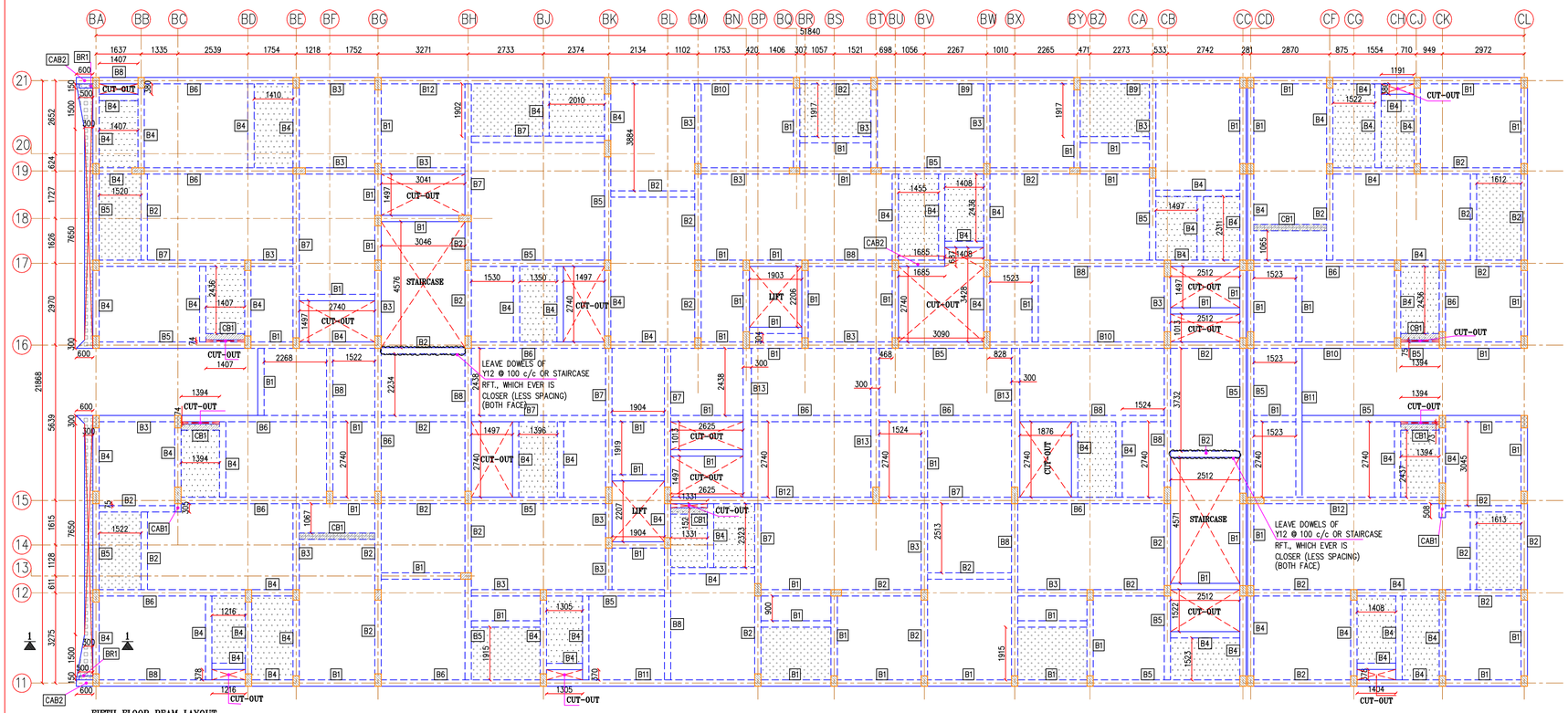
| DSGN | DRWN | CHKD | APPD | DATE | SHEET | SCALE |
|---|---|---|---|---|---|---|
| JS | SP | SSAK | SSAK | 05.06.24 | A1 | 1:100 |

DWG. NO: S

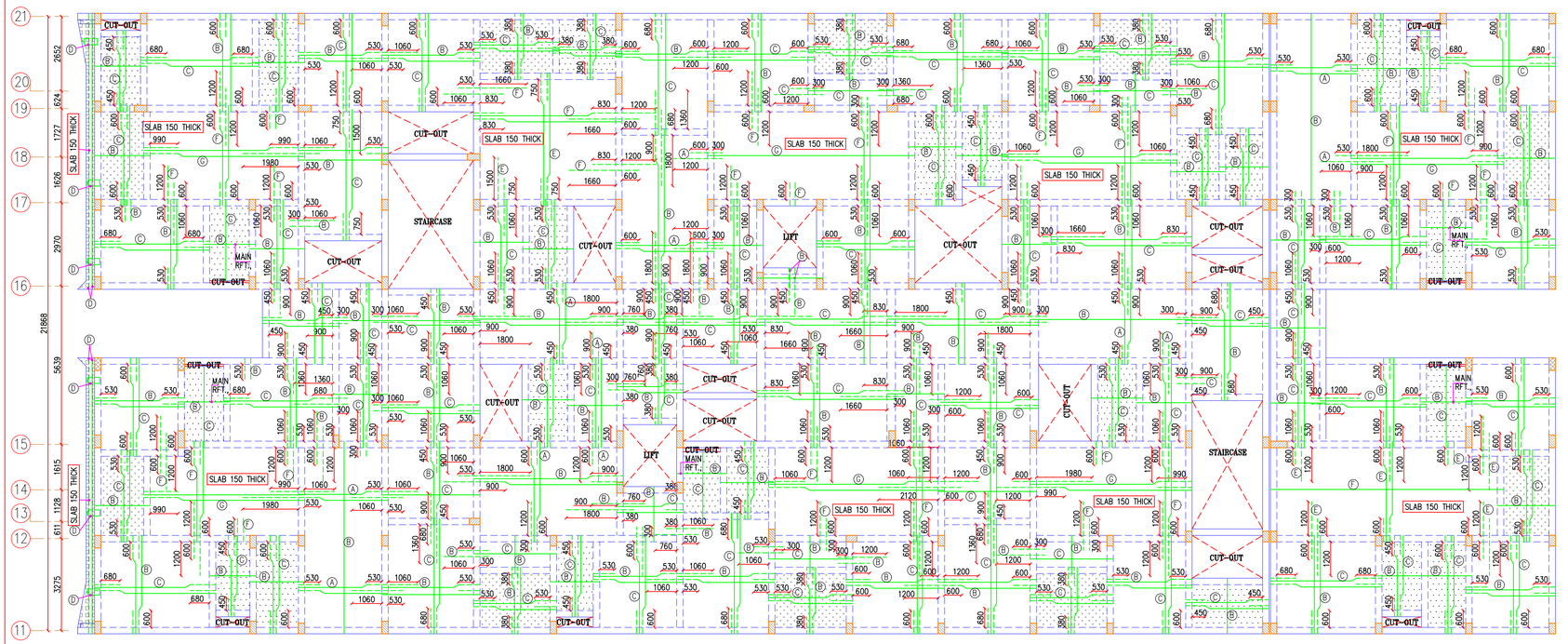
STRUCTURAL CONSULTANT

KAARVENS
Er. S.K.ARUN KAMARAJ, ME (Struct.),
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41, BR NAGAR, 3RD STREET,
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FIFTH FLOOR BEAM LAYOUT




FIFTH FLOOR SLAB LAYOUT
(OTHER DETAILS ARE NOT SHOWN FOR CLARITY)

## BEAM DETAILS

| S No | Beam No | Beam Size | Section @ XX End span | Section @ YY Mid span |
|---|---|---|---|---|
| 1 | B1 | 230x300 | | 3 – Y12<br>Y8 @ 150c/c<br>3 – Y12 |
| 2 | B2 | 230x380 | | 3 – Y12<br>Y8 @ 150c/c<br>3 – Y12 |
| 3 | B3 | 230x380 | 2 – Y12 +<br>2 – Y16 (EXT)•<br>Y8 @ 150c/c<br>2 – Y12 | 2 – Y12<br>Y8 @ 175c/c<br>2 – Y12 +<br>2 – Y16 (EXT)• |
| 4 | B4/ CAB1 | 230x450 | | 2 – Y16<br>Y8 @ 150c/c<br>2 – Y16 |
| 5 | B5 | 230x450 | 3 – Y12 +<br>2 – Y12 (EXT)•<br>Y8 @ 150c/c<br>3 – Y12 | 3 – Y12<br>Y8 @ 175c/c<br>3 – Y12 +<br>2 – Y12 (EXT)• |
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| 7 | B7 | 230x450 | 2 – Y16 +<br>3 – Y16 (EXT)•<br>Y8 @ 150c/c<br>2 – Y16 | 2 – Y16<br>Y8 @ 175c/c<br>2 – Y16 +<br>3 – Y16 (EXT)• |
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| 9 | B9 | 230x600 | | 3 – Y16<br>Y8 @ 150c/c<br>3 – Y16 |
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| 14 | CAB2 | 230x450 | | 3 – Y16<br>Y8 @ 150c/c<br>3 – Y16 |
| 15 | CB1 | 230x125 | | 6 – Y12<br>Y8 @ 150c/c |

## SLAB DETAILS

THICKNESS :125 (UNLESS NOTED)

| | | |
|---|---|---|
| A | Y8 | @ 150 C/C |
| B | Y8 | @ 175 C/C |
| C | Y8 | @ 200 C/C |
| D | Y10 | @ 125 C/C |
| E | Y10 | @ 150 C/C |
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| G | Y10 | @ 200 C/C |

## LIVE LOAD SCHEDULE

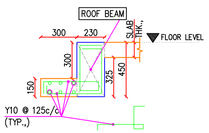
| DESCRIPTION | LIVE LOAD (kN/m²) |
|---|---|
| FIFTH FLOOR | 2 |

## LEGENDS

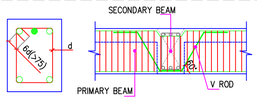
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- 100mm SUNKEN
- BRACKET
- CONCEALED BEAM
- LIGHT WEIGHT BRICK WALL
- SLAB AT BEAM BOTTOM
- TOP REINFORCEMENT
- BOTTOM REINFORCEMENT




BRACKET (BR1)–DETAIL
(SCALE 1:25)




SECTION 1-1
(N.T.S)




TYPICAL BEAM HOOK DETAILS

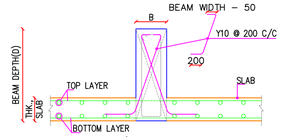
TYPICAL PRIMARY SECONDARY BEAM JUNCTION DETAIL
(N.T.S)

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INVERTED BEAM/SUNKEN SLAB WITH CONTINUOUS SLAB REINFORCEMENT




INVERTED BEAM/SUNKEN SLAB WITH CUT OFF REINFORCEMENT

### ABBREVIATIONS

| | | |
|---|---|---|
| Ld | – | DEVELOPMENT LENGTH |
| CAB | – | CANTILEVER BEAM |
| BR | – | BRACKET |
| N.T.S | – | NOT TO SCALE |
| LVL | – | LEVEL |
| CB | – | CONCEALED BEAM |

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REVIEW COPY

| REF | DESCRIPTION | BY | DATE |
|---|---|---|---|
| REVISIONS | | | |

CLIENT: Morais Architect X.

PROJECT: Proposed 3&2 BHK Apartment (ASTRO).

TITLE: Fifth Floor Slab, Beam Layout & Details.

| DSGN | DRWN | CHKD | APPD | DATE | SHEET | SCALE |
|---|---|---|---|---|---|---|
| JS | SP | SKAR | SKAR | 05.06.24 | A1 | 1:100 |

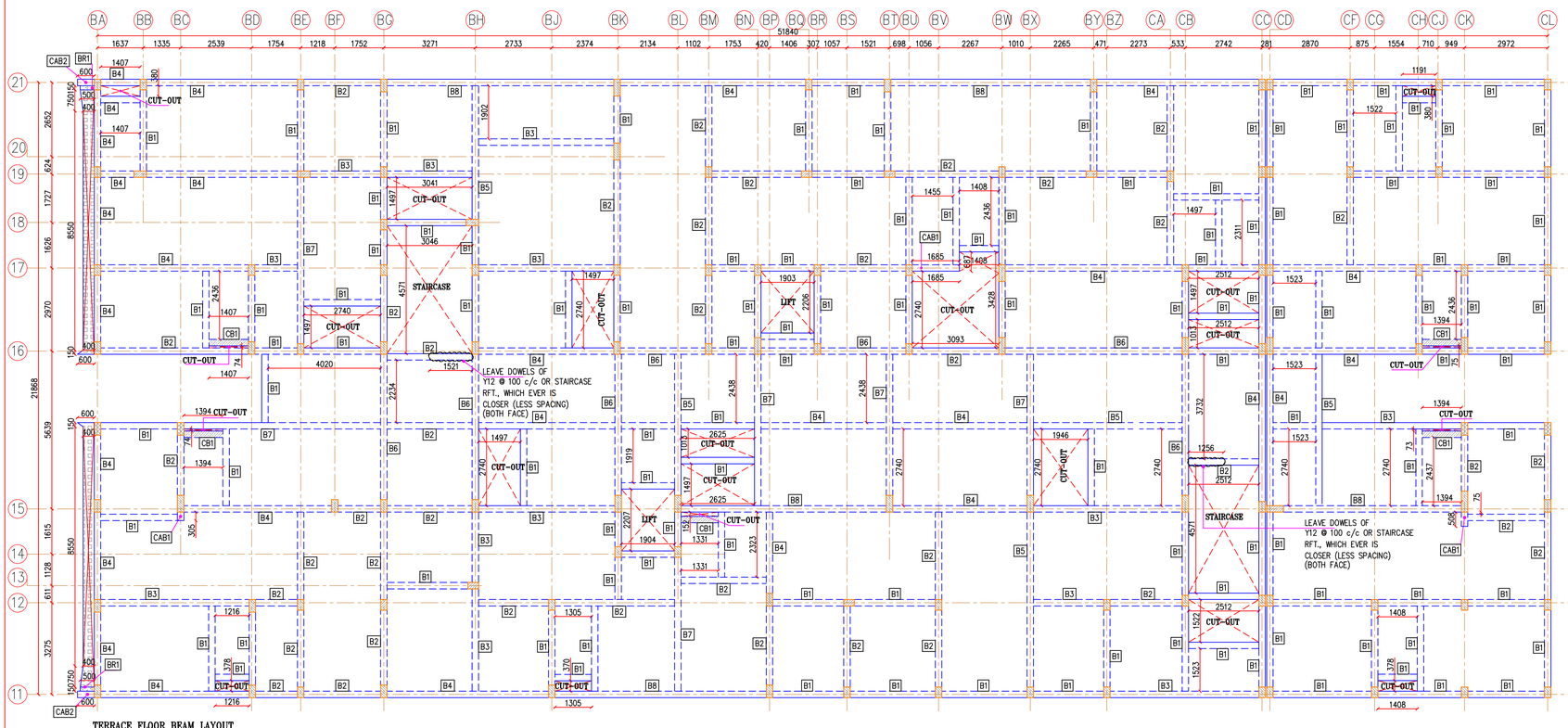
DWG. NO: 1 1 1 1 1 1 1 1 1 1 1 1 1

STRUCTURAL CONSULTANT

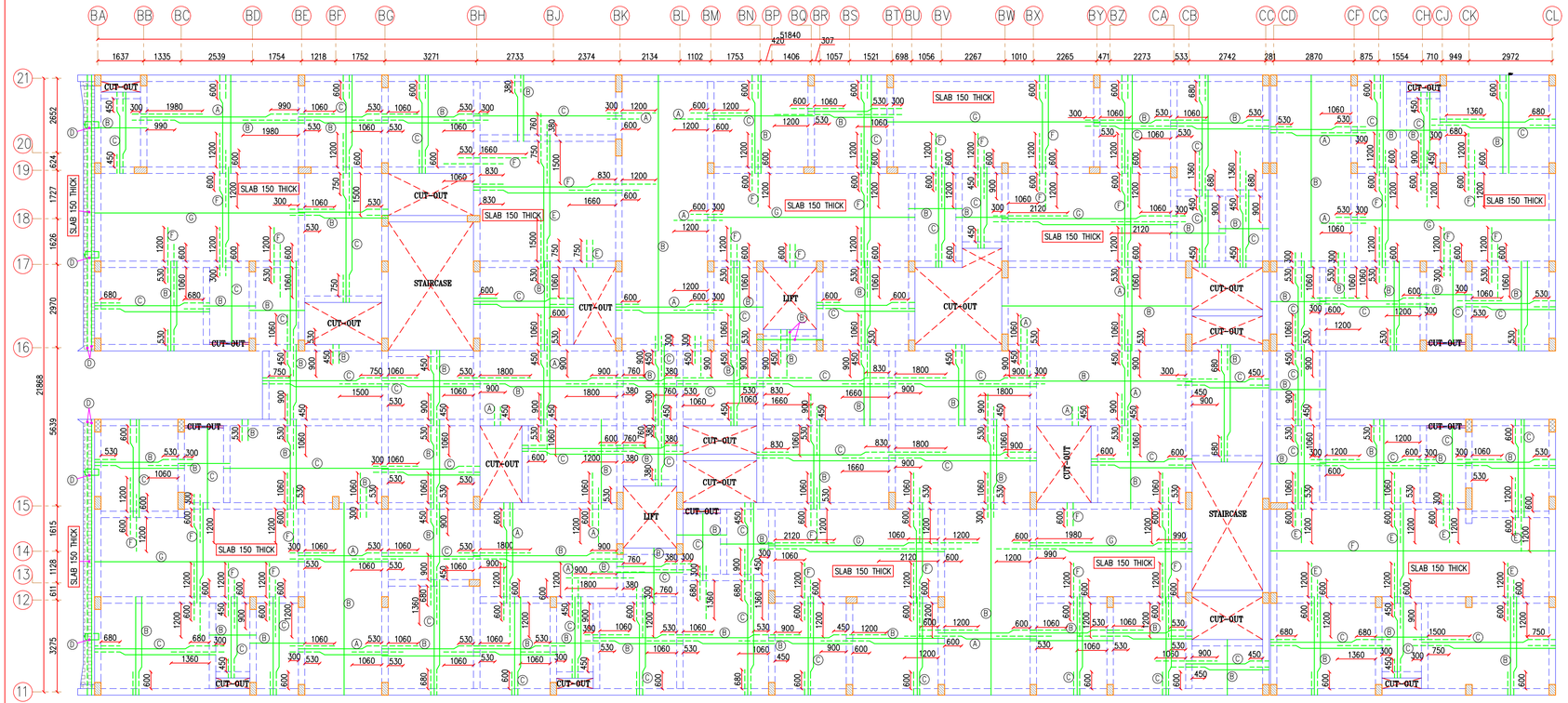
KAARVENS

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WEB : KAARVENS.COM

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TERRACE FLOOR BEAM LAYOUT




TERRACE FLOOR SLAB LAYOUT
(OTHER DETAILS ARE NOT SHOWN FOR CLARITY)

## BEAM DETAILS

| S No | Beam No | Beam Size | Section @ XX End span | Section @ YY Mid span |
|---|---|---|---|---|
| 1 | B1 | 230x300 | | 3 – Y12<br>Y8 @ 150c/c<br>3 – Y12 |
| 2 | B2/ CAB1 | 230x380 | | 3 – Y12<br>Y8 @ 150c/c<br>3 – Y12 |
| 3 | B3 | 230x380 | 2 – Y12 +<br>2 – Y16 (EXT)•<br>Y8 @ 150c/c<br>2 – Y12 | 2 – Y12<br>Y8 @ 175c/c<br>2 – Y12 +<br>2 – Y16 (EXT)• |
| 4 | B4 | 230x450 | 2 – Y16 +<br>2 – Y12 (EXT)•<br>Y8 @ 150c/c<br>2 – Y16 | 2 – Y16<br>Y8 @ 175c/c<br>2 – Y16 +<br>2 – Y12 (EXT)• |
| 5 | B5 | 230x450 | 2 – Y16 +<br>2 – Y16 (EXT)•<br>Y8 @ 150c/c<br>2 – Y16 | 2 – Y16<br>Y8 @ 175c/c<br>2 – Y16 +<br>2 – Y16 (EXT)• |
| 6 | B6 | 230x450 | 2 – Y16 +<br>3 – Y16 (EXT)•<br>Y8 @ 150c/c<br>2 – Y16 | 2 – Y16<br>Y8 @ 175c/c<br>2 – Y16 +<br>3 – Y16 (EXT)• |
| 7 | B7 | 230x450 | 3 – Y16 +<br>3 – Y16 (EXT)•<br>Y8 @ 150c/c<br>3 – Y16 | 3 – Y16<br>Y8 @ 175c/c<br>3 – Y16 +<br>3 – Y16 (EXT)• |
| 8 | B8 | 230x600 | 3 – Y16 +<br>2 – Y16 (EXT)•<br>Y8 @ 150c/c<br>3 – Y16 | 3 – Y16<br>Y8 @ 175c/c<br>3 – Y16 +<br>2 – Y16 (EXT)• |
| 9 | CAB2 | 230x450 | | 2 – Y16<br>Y8 @ 150c/c<br>2 – Y16 |
| 10 | CB1 | 230x125 | | 6 – Y12<br>Y8 @ 150c/c |

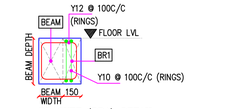
## SLAB DETAILS

THICKNESS :125 (UNLESS NOTED)

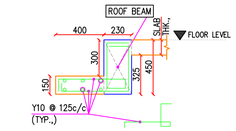
| | | |
|---|---|---|
| A | Y8 | @ 150 C/C |
| B | Y8 | @ 175 C/C |
| C | Y8 | @ 200 C/C |
| D | Y10 | @ 125 C/C |
| E | Y10 | @ 150 C/C |
| F | Y10 | @ 175 C/C |
| G | Y10 | @ 200 C/C |

## LIVE LOAD SCHEDULE

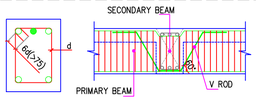
| DESCRIPTION | LIVE LOAD (kN/m²) |
|---|---|
| TERRACE FLOOR | 1.5 |




BRACKET (BR1)-DETAIL
(SCALE 1:25)




SECTION 1-1
(N.T.S)

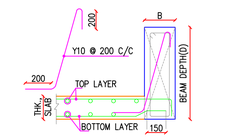



TYPICAL BEAM HOOK DETAILS

TYPICAL PRIMARY SECONDARY BEAM JUNCTION DETAIL
(N.T.S)

## PRE CAMBERS FOR BEAMS

PRE CAMBERS OF 0.4% OF THE SPAN BE PROVIDED FOR ALL HORIZONTAL STRUCTURAL MEMBERS SPAN EXCEEDING 5M (1.5M FOR CANTILEVER).




INVERTED BEAM/SUNKEN SLAB WITH CUT OFF REINFORCEMENT

## ABBREVIATIONS

| | | |
|---|---|---|
| Ld | – | DEVELOPMENT LENGTH |
| CAB | – | CANTILEVER BEAM |
| BR | – | BRACKET |
| N.T.S | – | NOT TO SCALE |
| LVL | – | LEVEL |
| CB | – | CONCEALED BEAM |

## LEGENDS

- – FULL HEIGHT COLUMN
- – FLOATING COLUMN FROM FIRST FLOOR
- – BRACKET
- – CONCEALED BEAM
- – SLAB AT BEAM BOTTOM
- – TOP REINFORCEMENT
- – BOTTOM REINFORCEMENT

## GENERAL NOTES

1. THIS DRAWING SHOULD BE READ ALONG WITH ARCHITECTURAL DRAWINGS.
2. ALL DIMENSIONS ARE IN MILLIMETERS.
3. ALL STRUCTURAL CONCRETE SHALL BE OF M25(1:1:2) GRADE CONFORMING TO IS:456.
4. ALL REINFORCEMENT(Y) SHALL BE H.Y.S.D. BARS OF GRADE Fe 550 CONFORMING TO IS:1786.
5. THE CLEAR COVER FOR REINFORCEMENT SHALL BE 12.5mm FOR SLAB & 25mm FOR BEAM.
6. LAP LENGTH (Ld) SHALL BE 50*Ø (DIA OF BAR) FOR ALL BARS.
7. NOT MORE THAN 50% OF REINFORCEMENT SHALL BE LAPPED AT ANY PARTICULAR JUNCTION.
8. THIS DRAWING IS NOT TO BE SCALED ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED.
9. ALL SLABS SHALL BE PROVIDED WITH TOP DISTRIBUTORS OF Y8 @ 200 C/C.
10. SPACER BAR TO BE PROVIDED IN BETWEEN TWO LAYERS OF REINFORCEMENT OF SAME DIA(MIN.,20mm) AT EVERY 1000 C/C.
11. THE SITE IN-CHARGE SHALL CHECK AND VERIFY ALL DIMENSIONS ON SITE BEFORE COMMENCEMENT OF WORKS AND ANY DISCREPANCIES SHALL BE REPORTED TO THE STRUCTURAL ENGINEER BEFORE EXECUTION.

REVIEW COPY

| REF. | DESCRIPTION | BY | DATE |
|---|---|---|---|
| | REVISIONS | | |

CLIENT: Morais Architect X.

PROJECT: Proposed 3&2 BHK Apartment (ASTRO).

TITLE: Terrace Floor Slab, Beam Layout & Details.

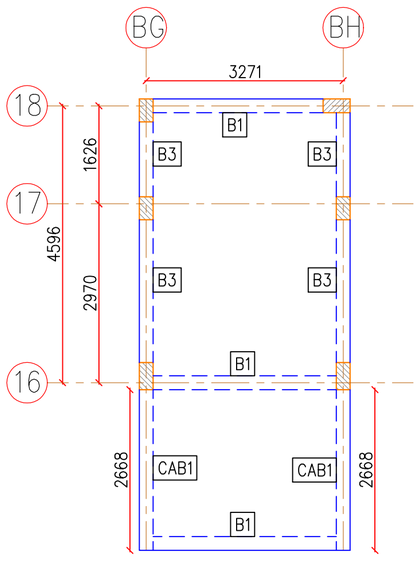
| DSGN | DRWN | CHKD | APPD | DATE | SHEET | SCALE |
|---|---|---|---|---|---|---|
| JS | SP | SKAR | SKAR | 05.06.24 | A1 | 1:100 |

DWG. NO: C T 1 1 1 1 1 1 1 1 1 1 1 1

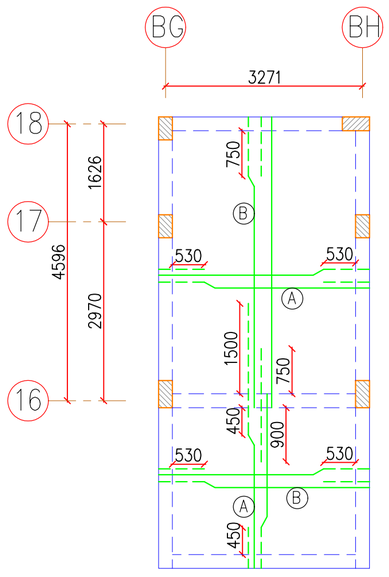
STRUCTURAL CONSULTANT

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STAIRCASE-1 HEAD ROOM BEAM LAYOUT




STAIRCASE-1 HEAD ROOM SLAB LAYOUT

## BEAM DETAILS

| S No | Beam No | Beam Size | Beam Reinforcement Detail |
|---|---|---|---|
| 1 | B1 | 230x300 | 3 – Y12<br>Y8 @ 150c/c<br>3 – Y12 |
| 2 | B2 | 230x380 | 3 – Y12<br>Y8 @ 150c/c<br>3 – Y12 |
| 3 | B3/ CAB1 | 230x450 | 3 – Y16<br>Y8 @ 150c/c<br>3 – Y16 |

## SLAB DETAILS

THICKNESS :125 (UNLESS NOTED)

| | |
|---|---|
| A | Y8 : @ : 150 C/C |
| B | Y8 : @ : 175 C/C |
| C | Y12 : @ : 100 C/C |

## LIVE LOAD SCHEDULE

| DESCRIPTION | LIVE LOAD (kN/m²) |
|---|---|
| STAIRCASE HEAD ROOM | 0.75 |
| LIFT HEAD ROOM | 5 |

## PRE CAMBERS FOR BEAMS

PRE CAMBERS OF 0.4% OF THE SPAN BE PROVIDED FOR ALL HORIZONTAL STRUCTURAL MEMBERS SPAN EXCEEDING 5M (1.5M FOR CANTILEVER).

## GENERAL NOTES

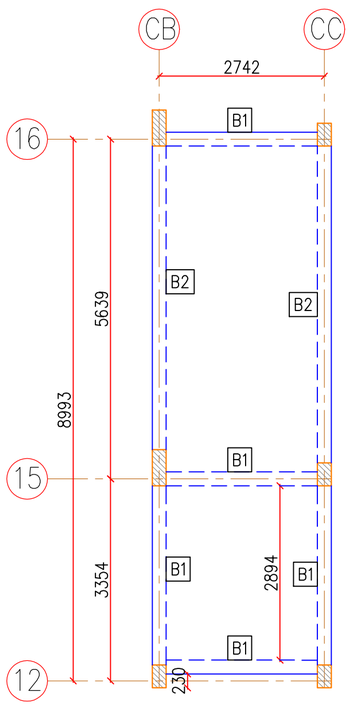
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7. NOT MORE THAN 50% OF REINFORCEMENT SHALL BE LAPPED AT ANY PARTICULAR JUNCTION.
8. THIS DRAWING IS NOT TO BE SCALED ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED.
9. ALL SLABS SHALL BE PROVIDED WITH TOP DISTRIBUTORS OF Y8 @ 200 C/C.
10. SPACER BAR TO BE PROVIDED IN BETWEEN TWO LAYERS OF REINFORCEMENT OF SAME DIA(MIN.,20mm) AT EVERY 1000 C/C.
11. THE SITE IN-CHARGE SHALL CHECK AND VERIFY ALL DIMENSIONS ON SITE BEFORE COMMENCEMENT OF WORKS AND ANY DISCREPANCIES SHALL BE REPORTED TO THE STRUCTURAL ENGINEER BEFORE EXECUTION.

## LEGENDS

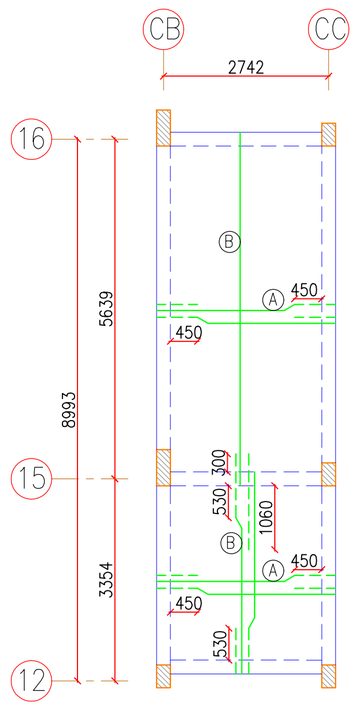
- – FULL HEIGHT COLUMN
- – FLOATING COLUMN FROM FIRST FLOOR
- – – – – TOP REINFORCEMENT
- ——— BOTTOM REINFORCEMENT

## ABBREVIATIONS

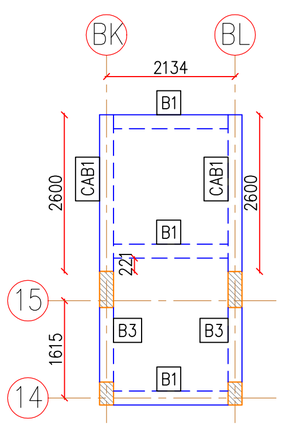
| | |
|---|---|
| Ld | – DEVELOPMENT LENGTH |
| CAB | – CANTILEVER BEAM |
| BR | – BRACKET |
| N.T.S | – NOT TO SCALE |
| LVL | – LEVEL |
| CB | – CONCEALED BEAM |



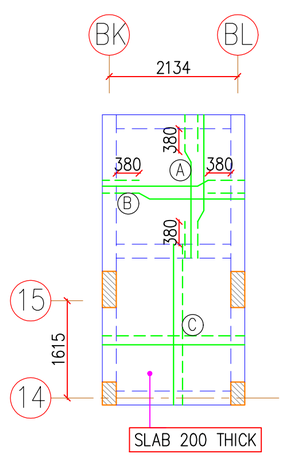

STAIRCASE-2 HEAD ROOM BEAM LAYOUT



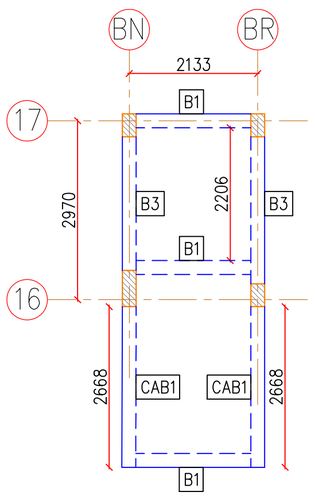

STAIRCASE-2 HEAD ROOM SLAB LAYOUT



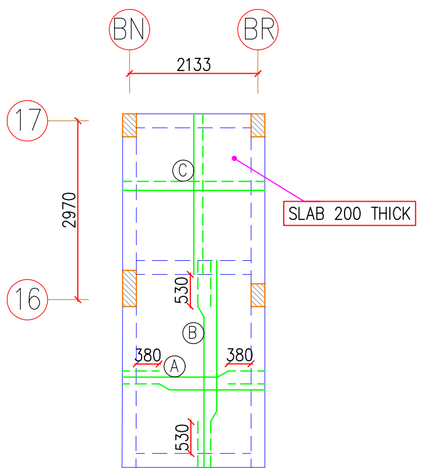

LIFT-1 HEAD ROOM BEAM LAYOUT




LIFT-1 HEAD ROOM SLAB LAYOUT




LIFT-2 HEAD ROOM BEAM LAYOUT




LIFT-2 HEAD ROOM SLAB LAYOUT

REVIEW COPY

| REF. | DESCRIPTION | BY | DATE |
|---|---|---|---|

REVISIONS

CLIENT: Morais Architect X.

PROJECT: Proposed 3&2 BHK Apartment (ASTRO).

TITLE: Staircase, Lift Headroom Cover Slab, Beam Layout & Details.

| DSGN | DRWN | CHKD | APPD | DATE | SHEET | SCALE |
|---|---|---|---|---|---|---|
| JS | SP | SKAK | SKAK | 05.06.26 | A2 | 1:100 |

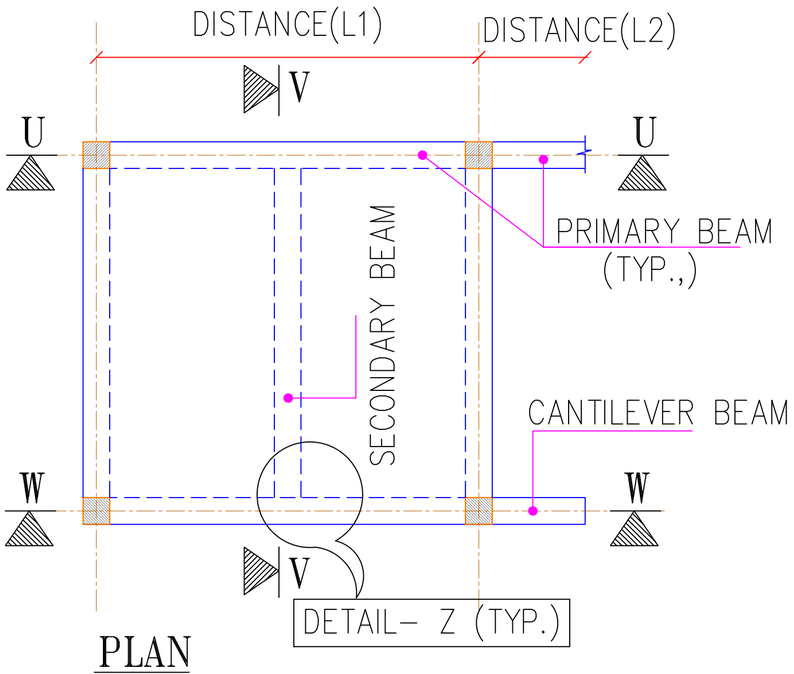
DWG. NO: MOS-25-04-RC-611-R0

STRUCTURAL CONSULTANT

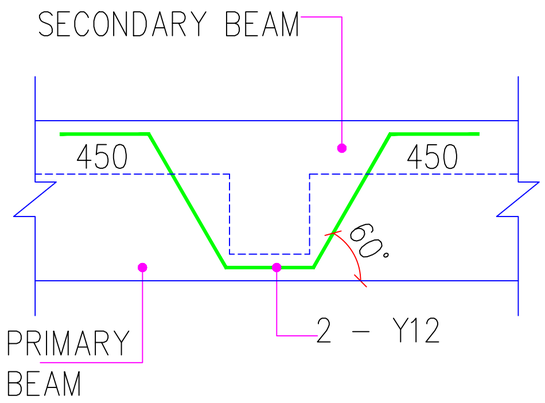
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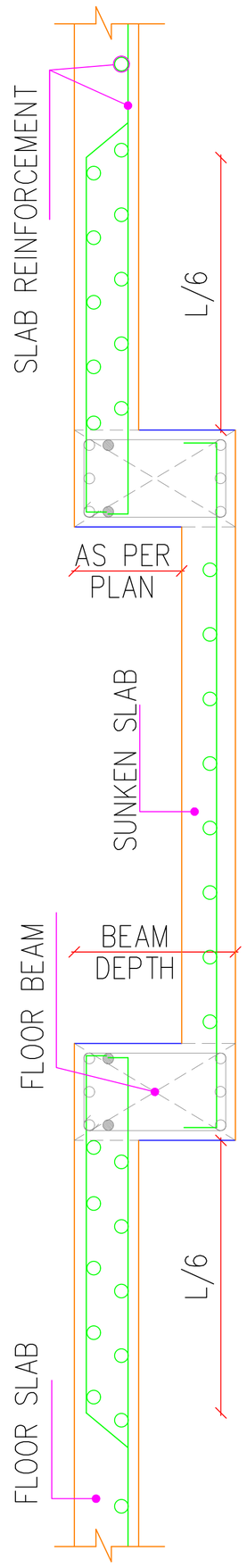
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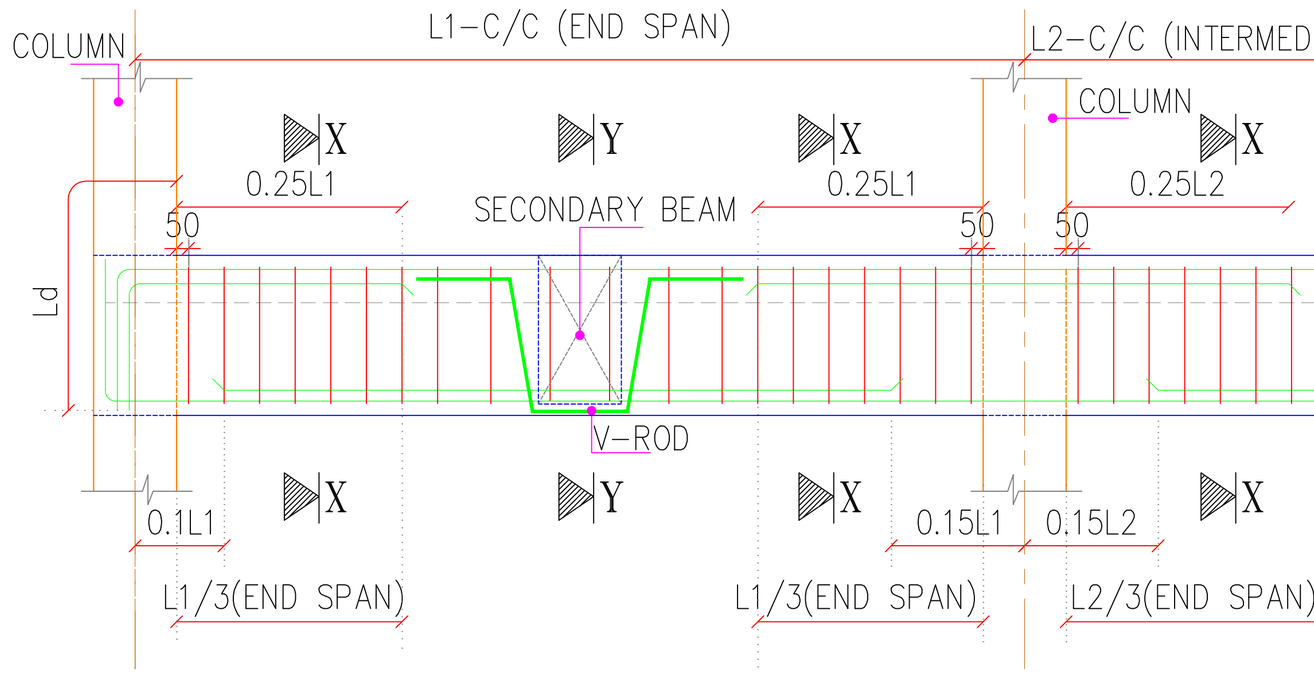

## PLAN
(N.T.S)



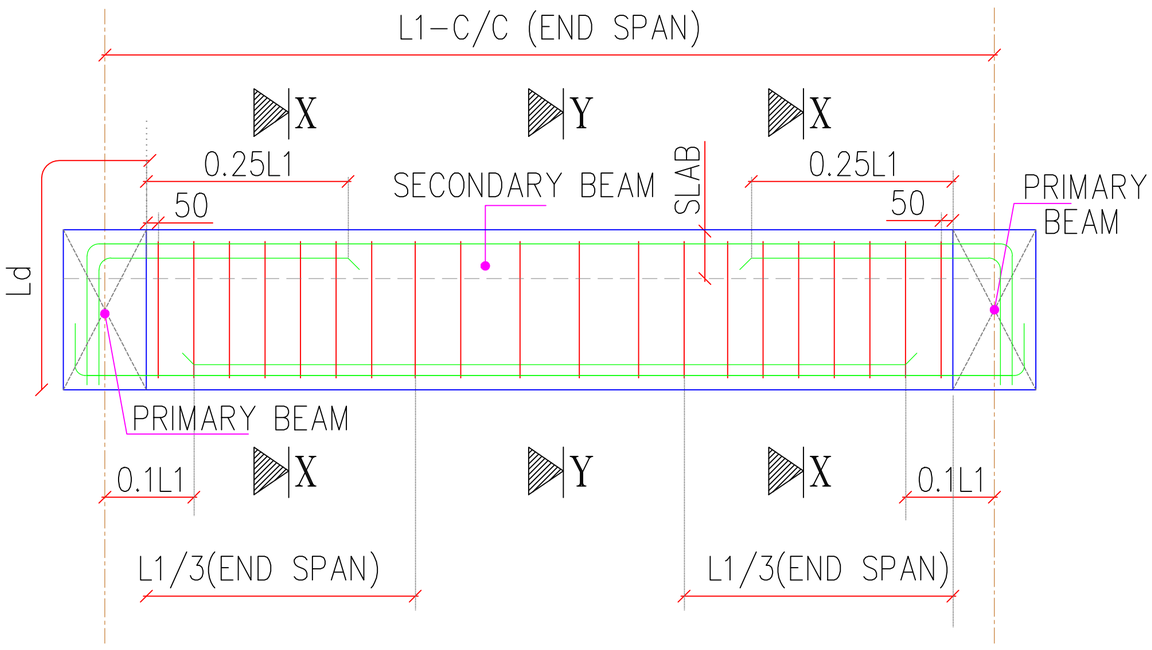

## DETAIL – Z
## (V–ROD DETAILS)
(N.T.S)



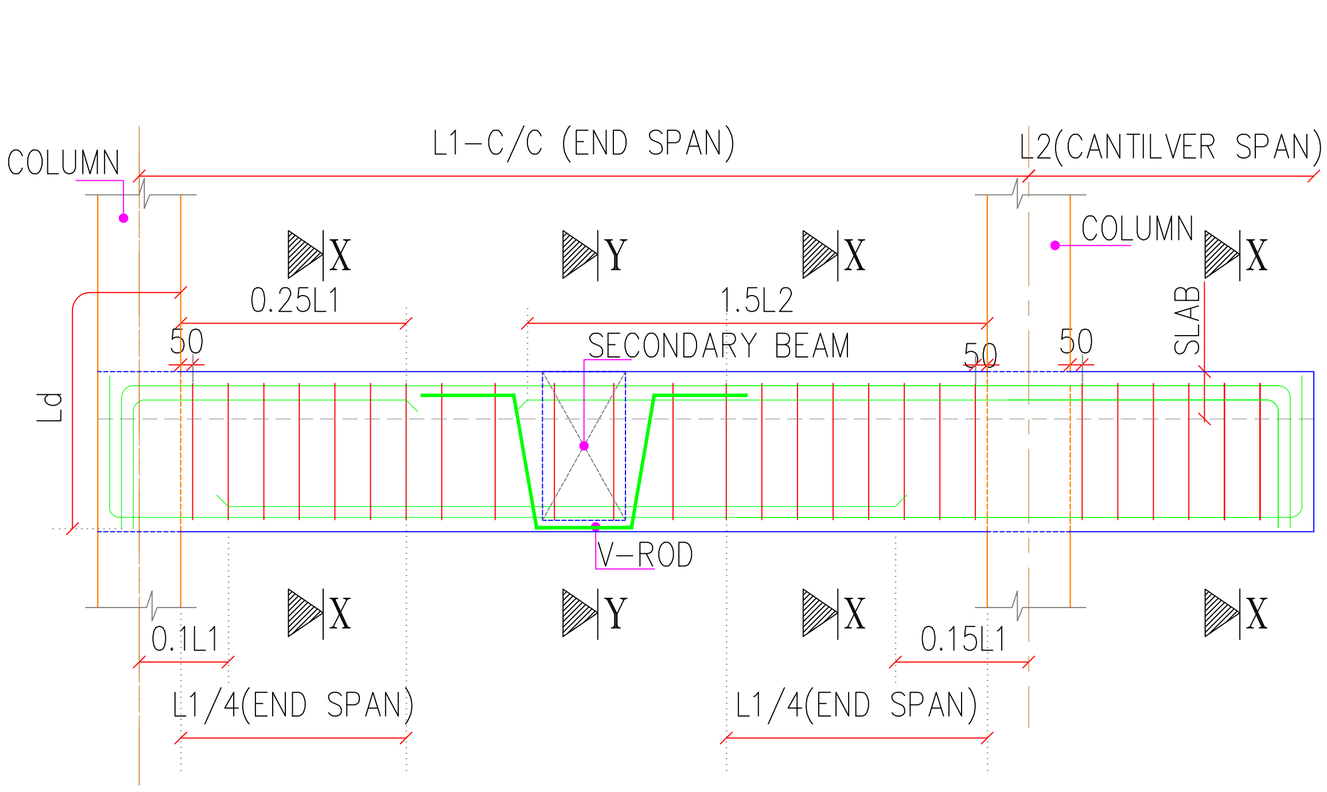

## TYPICAL SUNKEN SLAB SECTION
(N.T.S)




## SECTION U–U
## TYPICAL BEAM SECTION
(N.T.S)




## SECTION V–V
## TYPICAL BEAM SECTION
(N.T.S)




## SECTION W–W
## TYPICAL CANTILEVER BEAM SECTION
(N.T.S)

## ABBREVIATIONS

| | | |
|---|---|---|
| Ld | – | DEVELOPMENT LENGTH |
| N.T.S | – | NOT TO SCALE |

## NOTE
*FOR SECTIONS XX & YY REFER BEAM DETAILS.

REVIEW COPY

| REF. | DESCRIPTION | BY | DATE |
|---|---|---|---|
| | REVISIONS | | |

CLIENT:
Morais Architect X.

PROJECT:
Proposed 3&2 BHK Apartment (ASTRO).

TITLE:
Typical Roof Beam Sections and Layout.

| DSGN | DRWN | CHKD | APPD | DATE | SHEET | SCALE |
|---|---|---|---|---|---|---|
| JS | SP | SKAK | SKAK | 05.06.26 | A4 | 1:100 |

DWG. NO: MOS-25-04-RC-62-R0

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WEB : KAARVENS.COM

THE LANDLENS SUITE

# Eight ways to know a piece of land before you pay for it.

This report covers one part of the picture. These cover the rest, drawn from the same government records, for any property in Tamil Nadu.

### LandLens One
Ask anything about a property and get an answer grounded in live government records, with the sources shown.
**/landlens/one**

### Verify My Land
Every record check run on one property and returned as a single report.
**/landlens/verify-my-land**

### Legal Opinion
An advocate's written opinion on the title, built on the records we pull for it.
**/landlens**

### One Map
Every layer on one map: the parcel, its boundary, zoning, water bodies and what sits around it.
**/landlens/one/map**

### PriceMap
What land actually changed hands for around this plot, taken from the registered deeds.
**/landlens/pricemap**

### Build Scope
What you are allowed to build here: floor space, height, coverage and setbacks.
**/landlens/build-scope**

### Property Tracker
Watch a property and hear about it when something new is registered against it.
**/landlens/property-tracker**

### Deal Room
Run the transaction in one place: documents, stamping, signatures and the parties.
**/landlens/deal-room**

FREE TOOLS · NO ACCOUNT NEEDED

# Twenty-four checks you can run yourself, at no cost.

## Records and verification

The registers themselves, read for you.

- Encumbrance Certificate
- Patta and Chitta
- Field Measurement Sketch
- EC Analyzer
- Bank charge check
- Court case search
- Seller background check
- Approval check by survey

## Value and duty

What it is worth and what it costs to register.

- Guideline value by street
- Guideline value by survey
- Stamp duty and registration fees
- Capital gains
- Floor space index
- Area unit converter

## Zoning and land use

What the plan says can happen on this land.

- Land use zone finder
- CMDA land use check
- Coastal regulation zone
- Master plan check
- Water bodies finder
- Airport height clearance

## Registers and directories

Who holds it, and which office keeps the record.

- Find your registering office
- Temple property check
- Waqf property check
- RERA register

**Every free tool**
/tools

**Services we run for you**
/services

**The LandLens suite**
/landlens/one

Verified RealEstate™

# Every claim in this document traces back to a government record.

- Legal opinions, due diligence and title verification
- Building plan, layout and sub-division approvals
- Completion and occupancy certificates, regularisation
- Escrow, negotiation and NRI property management
- Land survey, soil testing, architecture and construction

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+91 9996 12 9996

Prepared from the registers named on the page each finding sits on. Where a register could not be read, this document says so in its place rather than leaving the gap to be read as a clean result.