

FOUNDATION AND COLUMN LAYOUT (BLOCK II)
SCALE - 1:100

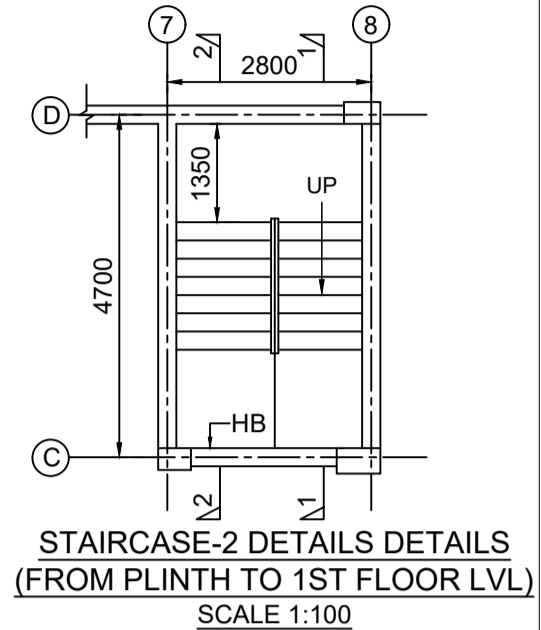
| COLUMN NO. | COLUMN SIZE | | LONGITUDINAL REINFORCEMENT DETAILS | | STIRRUPS | |
|------------|-------------|-----|------------------------------------|-----------------|----------|----------|
| | Lx | Ly | Up to 2nd floor roof level | | (ZONE-1) | (ZONE-2) |
| | | | Up to 2nd floor roof level | Remaining floor | | |
| A5 | 300 | 450 | 4-Ø16+6-Ø25 | 6-Ø16+4-Ø20 | 8@100 | 8@150 |
| A6 | 300 | 500 | 4-Ø16+8-Ø25 | 4-Ø16+8-Ø25 | 8@100 | 8@150 |
| A8 | 300 | 500 | 12-Ø25 | 12-Ø25 | 8@100 | 8@150 |
| A9 | 300 | 500 | 12-Ø25 | 12-Ø25 | 8@100 | 8@150 |
| B1 | 300 | 500 | 4-Ø16+6-Ø25 | 10-Ø16 | 8@100 | 8@150 |
| B2 | 300 | 500 | 6-Ø16+4-Ø25 | 6-Ø16+4-Ø20 | 8@100 | 8@150 |
| B3 | 300 | 500 | 6-Ø16+4-Ø25 | 10-Ø16 | 8@100 | 8@150 |
| B4 | 300 | 500 | 6-Ø16+4-Ø20 | 10-Ø16 | 8@100 | 8@150 |
| C3 | 300 | 450 | 4-Ø16+4-Ø20 | 8-Ø16 | 8@100 | 8@150 |
| C5 | 300 | 500 | 4-Ø16+6-Ø20 | 10-Ø16 | 8@100 | 8@150 |
| C6 | 300 | 500 | 12-Ø25 | 12-Ø25 | 8@100 | 8@150 |
| C7 | 450 | 300 | 4-Ø16+4-Ø20 | 4-Ø16+4-Ø20 | 8@100 | 8@150 |
| C8 | 600 | 350 | 16-Ø25 | 16-Ø25 | 8@100 | 8@150 |
| C9 | 300 | 500 | 4-Ø16+8-Ø25 | 4-Ø16+8-Ø25 | 8@100 | 8@150 |
| D1 | 300 | 500 | 4-Ø16+6-Ø25 | 10-Ø16 | 8@100 | 8@150 |
| D2 | 500 | 300 | 6-Ø16+4-Ø20 | 10-Ø16 | 8@100 | 8@150 |
| D3 | 450 | 300 | 6-Ø16+4-Ø25 | 6-Ø16+4-Ø20 | 8@100 | 8@150 |
| D4 | 300 | 500 | 4-Ø16+4-Ø20 | 8-Ø16 | 8@100 | 8@150 |
| D5 | 300 | 500 | 4-Ø16+4-Ø20 | 4-Ø16+4-Ø20 | 8@100 | 8@150 |
| D6 | 400 | 300 | 4-Ø20+6-Ø25 | 6-Ø16+4-Ø25 | 8@100 | 8@150 |
| D8 | 500 | 300 | 6-Ø16+4-Ø20 | 6-Ø16+4-Ø20 | 8@100 | 8@150 |
| D9 | 300 | 500 | 4-Ø16+4-Ø20 | 8-Ø16 | 8@100 | 8@150 |
| E2 | 700 | 300 | 4-Ø16+8-Ø25 | 12-Ø16 | 8@100 | 8@150 |
| E9 | 550 | 300 | 6-Ø16+4-Ø25 | 6-Ø16+4-Ø20 | 8@100 | 8@150 |
| F1 | 300 | 500 | 4-Ø16+8-Ø25 | 4-Ø16+8-Ø20 | 8@100 | 8@150 |
| F2 | 300 | 500 | 4-Ø16+8-Ø25 | 12-Ø16 | 8@100 | 8@150 |
| F3 | 300 | 500 | 4-Ø20+6-Ø25 | 6-Ø16+4-Ø25 | 8@100 | 8@150 |
| F4 | 300 | 500 | 6-Ø16+4-Ø25 | 10-Ø16 | 8@100 | 8@150 |
| F5 | 300 | 500 | 4-Ø16+6-Ø20 | 4-Ø16+6-Ø20 | 8@100 | 8@150 |
| F6 | 300 | 700 | 4-Ø16+6-Ø25 | 6-Ø16+4-Ø20 | 8@100 | 8@150 |
| F8 | 300 | 500 | 4-Ø16+6-Ø25 | 4-Ø16+6-Ø20 | 8@100 | 8@150 |
| F9 | 300 | 500 | 6-Ø16+4-Ø25 | 10-Ø16 | 8@100 | 8@150 |
| SC-1 | 250 | 250 | 8-Ø16 | - | 8@100 | 8@150 |

NOTE: COLUMN MKD. SC WILL TERMINATE AT PLINTH LVL.

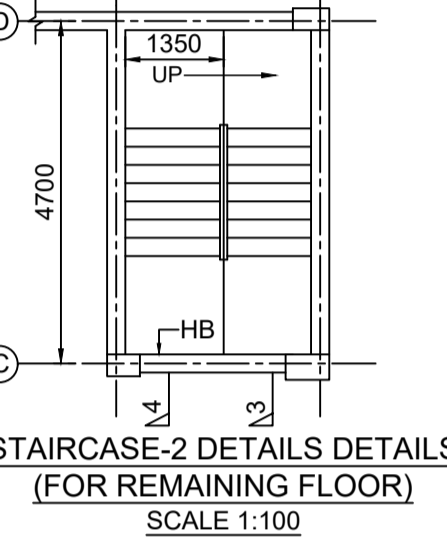
| FND. MKD. | DEPTH (D) | REINFORCEMENT DETAILS | | | |
|-----------|-----------|----------------------------|---------------|--------------------------|---------------|
| | | LONGITUDINAL REINFORCEMENT | | TRANSVERSE REINFORCEMENT | |
| | | AT TOP(LT) | AT BOTTOM(LB) | AT TOP(ST) | AT BOTTOM(SB) |
| CF1 | 500 | 12Ø @ 200 | 12Ø @ 150 | 12Ø @ 200 | 12Ø @ 150 |
| CF2 | 500 | 12Ø @ 150 | 12Ø @ 150 | 12Ø @ 150 | 12Ø @ 150 |
| CF3 | 500 | 12Ø @ 150 | 16Ø @ 150 | 12Ø @ 150 | 16Ø @ 150 |
| RF1 | 500 | 20Ø @ 200 | 25Ø @ 200 | 20Ø @ 200 | 20Ø @ 150 |
| RF2 | 450 | 20Ø @ 150 | 20Ø @ 150 | 20Ø @ 150 | 20Ø @ 150 |

NOTE: DIMENSION IS PROVIDED IN FOUNDATION PLAN

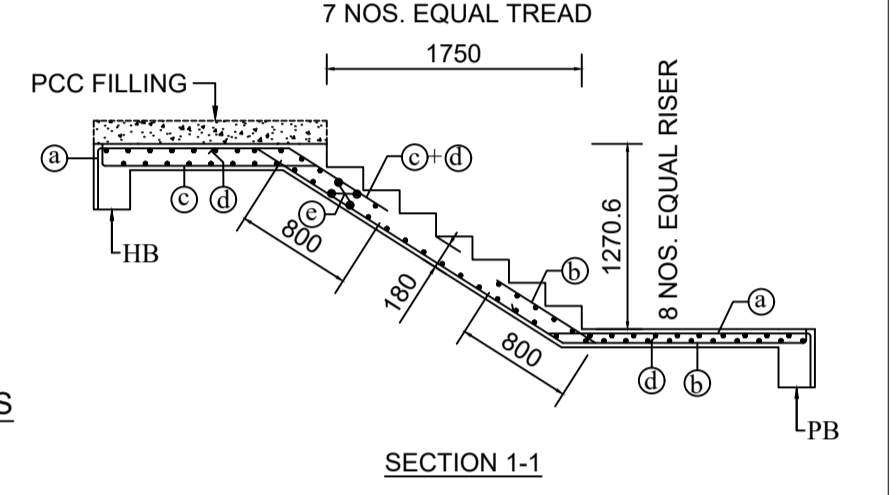
| MKD. | SIZE (LXB) | DEPTH (T/T+D) | REINFORCEMENT (RF) |
|------|-------------|---------------|--------------------|
| F1 | 2000 x 2000 | 200/400 | 12Ø @ 200 |
| F2 | 2200 x 2200 | 200/400 | 12Ø @ 200 |
| F3 | 2400 x 2400 | 200/450 | 12Ø @ 150 |
| F4 | 2600 x 2600 | 250/500 | 12Ø @ 150 |
| F5 | 2800 x 2800 | 500 | 16Ø @ 200 |
| F6 | 3000 x 3000 | 500 | 16Ø @ 200 |
| F7 | 3300 x 3300 | 500 | 16Ø @ 175 |
| F8 | 2600 x 3500 | 450 | 16Ø @ 175 |



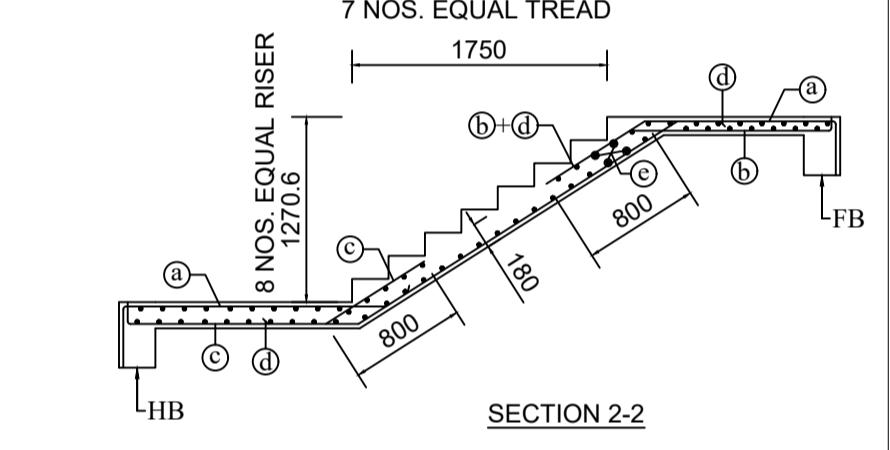
STAIRCASE-2 DETAILS (FROM PLINTH TO 1ST FLOOR LVL)
SCALE 1:100



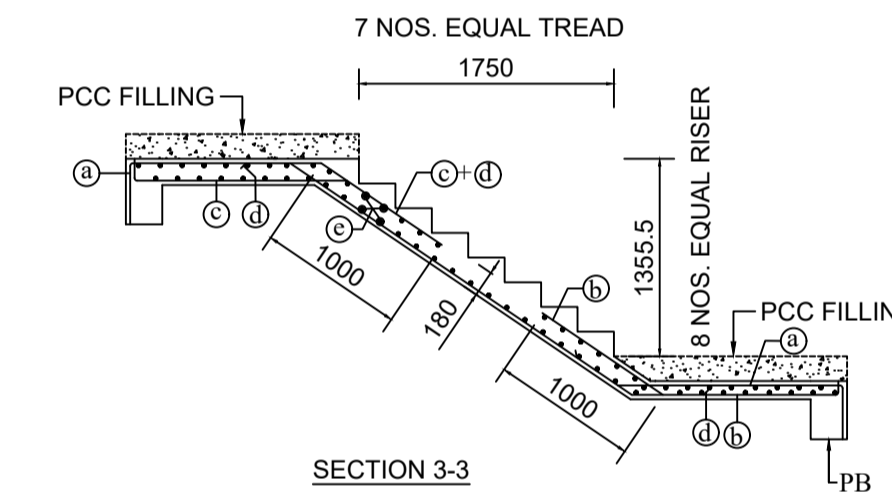
STAIRCASE-2 DETAILS (FOR REMAINING FLOOR)
SCALE 1:100



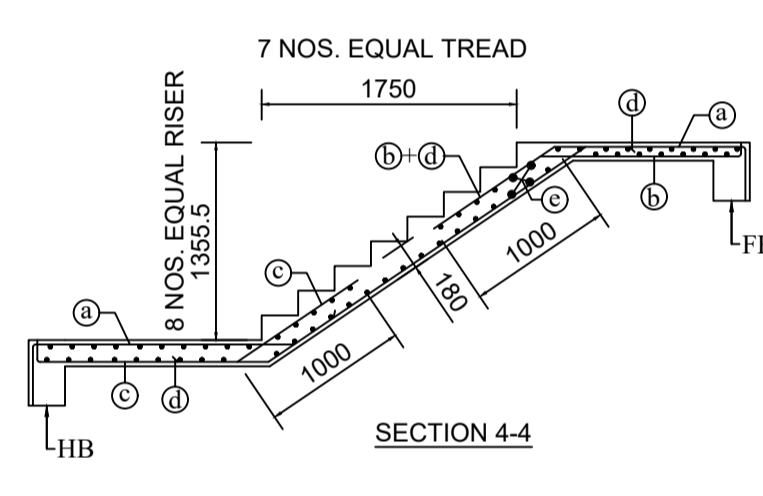
SECTION 1-1



SECTION 2-2

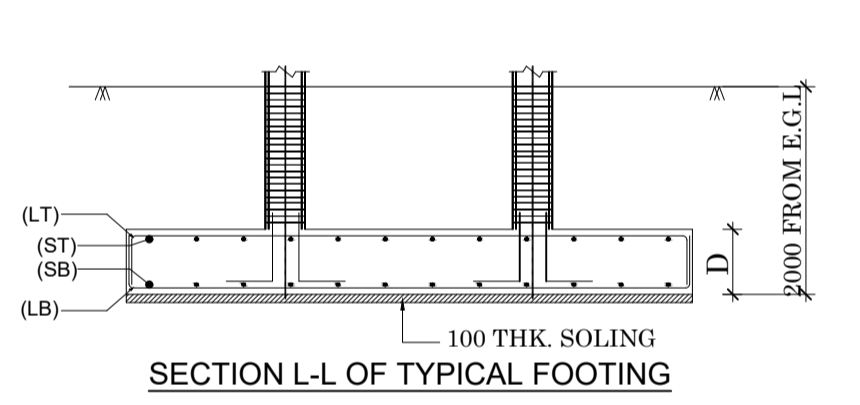


SECTION 3-3



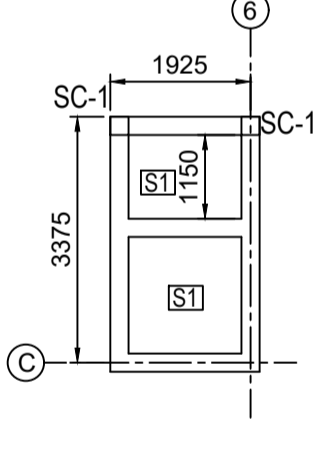
SECTION 4-4

REINFORCEMENT ARRANGEMENT OF COMBINED/RAFT FOOTING
NOT TO SCALE

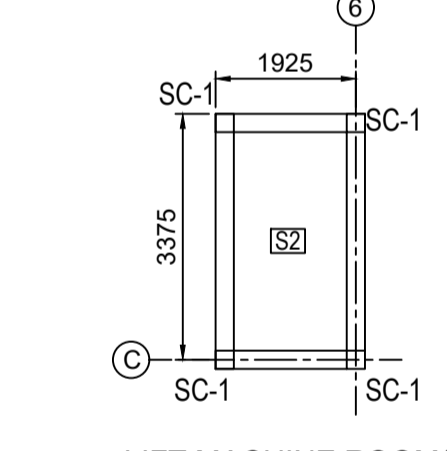


SECTION L-L OF TYPICAL FOOTING

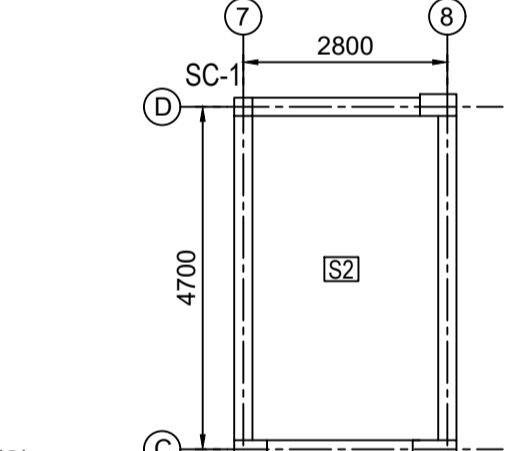
| TYPICAL REINFORCEMENT ARRANGEMENT OF COLUMNS | | | |
|--|-------------|-------------|-------------|
| | | | |
| 8 MAIN BAR | 10 MAIN BAR | 12 MAIN BAR | 16 MAIN BAR |



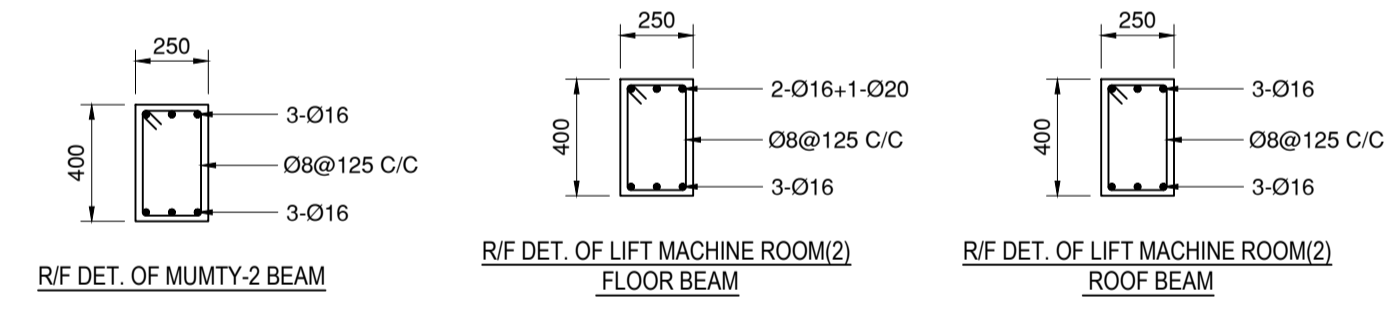
LIFT MACHINE ROOM(2) FLOOR DETAILS
SCALE 1:100



LIFT MACHINE ROOM(2) ROOF DETAILS
SCALE 1:100



MUMTY-2 DETAILS
SCALE 1:100



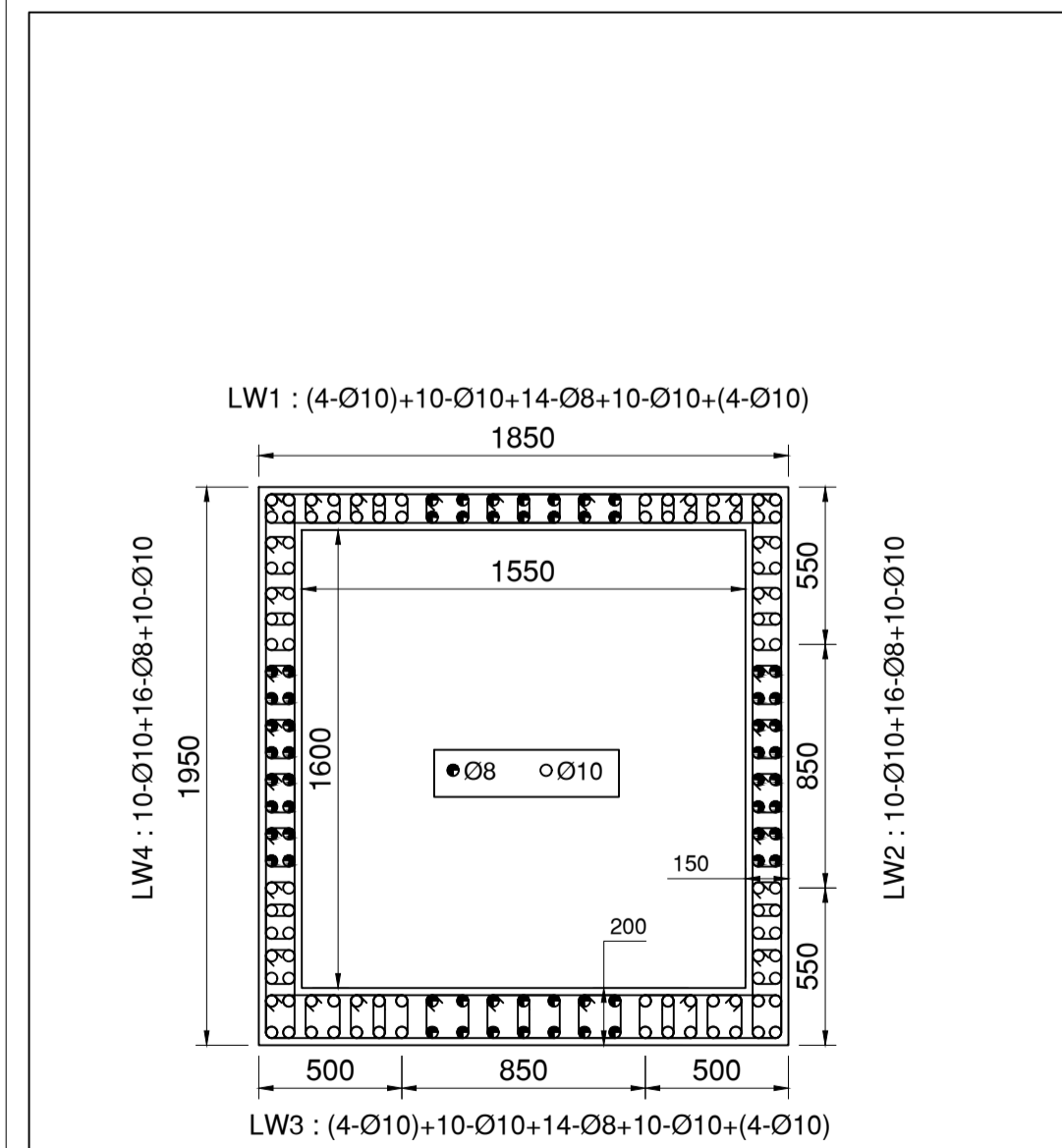
TYPICAL ISOLATED FOOTING SECTION

| MARKING | REINFORCEMENT DETAILS |
|---------|-----------------------|
| a | 12mm Ø @ 150mm c/c |
| b | 12mm Ø @ 150mm c/c |
| c | 12mm Ø @ 150mm c/c |
| d | 8mm Ø @ 150mm c/c |
| e | 8mm Ø @ 200mm c/c |

SCHEDULE OF BARS IN STAIRS

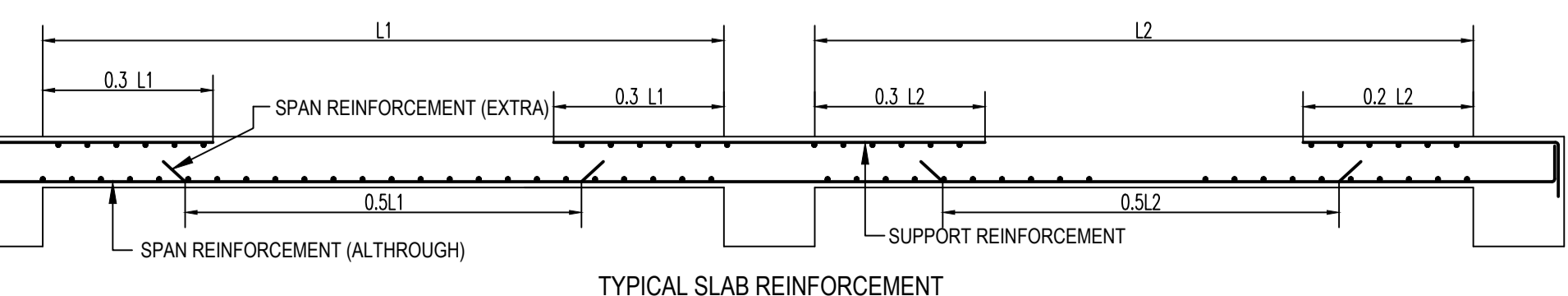
TYPICAL DETAIL OF COLUMN REINFORCEMENT

- L0 = Shall not be less than,
- a) Larger lateral dimension of the member,
- b) 1/6 of clear span of member,
- c) 450 mm.



| MARKING | MAIN LINKS | OTHER LINKS |
|---------|------------|-------------|
| LW4 | Ø8 @ 150 | Ø8 @ 150 |
| LW3 | Ø8 @ 150 | Ø8 @ 150 |
| LW2 | Ø8 @ 150 | Ø8 @ 150 |
| LW1 | Ø8 @ 150 | Ø8 @ 150 |

| SLAB MKD. | SCHEDULE OF SLAB REINFORCEMENT | | | | | | REMARKS |
|--|--------------------------------|-------------------------|----------------|------------------|-------------------------|----------------|---|
| | ALONG SHORT SPAN | | | ALONG LONG SPAN | | | |
| | BOTTOM ALTHROUGH | EXTRA BOTT. AT MID SPAN | TOP AT SUPPORT | BOTTOM ALTHROUGH | EXTRA BOTT. AT MID SPAN | TOP AT SUPPORT | |
| S1 | 10Ø @ 300 | 10Ø @ 300 | 10Ø @ 150 | 10Ø @ 300 | 10Ø @ 300 | 10Ø @ 150 | 1. TOP REINFORCEMENT AT DISCONTINUOUS SUPPORT - Ø8 AT 200 2. PROVIDE CHAIRS OF Ø10 AS REQUIRED TO KEEP THE TOP BARS IN POSITION 3. REFER FIGURE "TYPICAL SLAB REINFORCEMENT" 4. FOR TOP REINFORCEMENT AT COMMON EDGE OF TWO SLABS, PROVIDE HEAVIER BAR OF TWO / LESSER SPACING IN CASE OF SAME DIAMETER. |
| S2 | 8Ø @ 300 | 8Ø @ 300 | 8Ø @ 150 | 8Ø @ 300 | 8Ø @ 300 | 8Ø @ 150 | |
| S3 | 8Ø @ 300 | 8Ø @ 300 | 8Ø @ 200 | 8Ø @ 300 | 8Ø @ 300 | 8Ø @ 200 | |
| NOTE: SLAB THICKNESS = 125MM (GENERAL) SLAB THICKNESS = 150MM (SLAB MKD. S1)- TO BE FOLLOWED IN TERRACE AND MACHINE ROOM FLOOR ONLY | | | | | | | |



TYPICAL SLAB REINFORCEMENT

NOTE: SPECIAL CONFINED REINFORCEMENT TO BE PROVIDED FOR A LENGTH OF 800 MM. @ 100 MM. C/C. CONFINING BAR SHOULD BE SAME AS THE DIA. OF STIRRUPS BAR USED IN A PARTICULAR BEAM UNLESS OTHERWISE SPECIFIED.

- NOTES :-
- DEPTH OF FOUNDATION HAS BEEN CONSIDERED 2M IN DESIGN FOR A BEARING CAPACITY OF 130 KN/SM AS PER SOIL REPORT SUBMITTED BY ACHARYA ASSOCIATES.
 - ALL DIMENSION AND ELEVATIONS ARE IN M.M. UNLESS NOTED OTHERWISE
 - USE M-25 GRADE FOR CONCRETE WORK.
 - REINFORCEMENT STEEL WILL BE OF GRADE Fe-500
 - USE COLD TWISTED DEFORMED REINFORCING BAR CONFORMING TO IS: 1786.
 - MINIMUM CLEAR CONCRETE COVER SHALL BE AS FOLLOWS:
- | ITEM | TOP | BOTTOM | SIDE |
|---------|-----|--------|------|
| FOOTING | 60 | 60 | 60 |
| COLUMN | - | - | 40 |
| BEAM | 25 | 25 | 25 |
| SLAB | 20 | 20 | 25 |
- UNLESS SPECIFIED OTHERWISE ALL HOOKS, BENDS, LAPS, SPLICES ETC. SHALL BE AS PER LATEST IS:456 & OTHER RELEVANT INDIAN STANDARDS. PROVIDE DEVELOPMENT LENGTH 40D WHERE.
 - "D" IS THE DIAMETER OF REINFORCING BAR.
 - ALL DIMENSIONS AND DETAILS ARE TYPICAL UNLESS INDICATED OTHERWISE.
 - THIS DRAWING WILL BE READ IN CONJUNCTION WITH CONTRACT DOCUMENT.
 - DESIGN IS BASED ON IS:456-2000, IS:1893(PART1)-2002, IS:875(PART1&II)-1987

PROJECT TITLE:-
G+4 STORIED RESIDENTIAL CUM COMMERCIAL BUILDING OF SRI. SHYAMAL ROY

DRAWING TITLE:- FOUNDATION, COLUMN, STAIRCASE, MUMTY, LIFT, SLAB & LIFT MACHINE ROOM BEAM DETAILS OF BLOCK II

DECLARATION

We do hereby certify that the foundation and superstructure of the building proposed for construction on Plot no: 112 (R.S.), 163 (L.R.) At Sashtri Nagar, PS- Bhaktinagar, Dist.- Jalpaiguri under the jurisdiction of Siliguri Municipal Corporation/ Notified Area Authority/ Industrial Township Authority have been personally inspected and so designed by us will make such foundation and super structure safe in all respect including the consideration of bearing capacity and settlement of soil and other condition if any conforming to all stipulations of all relevant IS CODE of practice.

SIGN OF STRUCTURAL ENGINEER

CREOZENTH CIVIL & STRUCTURAL ENGINEERING CONSULTANTS

ADDRESS: 10, HAREN MUKHERJEE ROAD, SILIGURI
CONTACT NUMBER: +91 790820322/ 9830577330
STRUCTURAL DRAWING IS PREPARED BY CREOZENTH. NO PART OF THE DRAWING SHOULD BE DUPLICATED WITHOUT THE CONSENT OF THE FIRM.

DESIGNED BY : S. BASAK
DRAWN BY : S. SAHA & N. RAI
CHECKED BY : R. CHAKRABORTI

REV. NO. DATE
SCALE 1:100 SHEET NO. STR/04 DATE: 07/02/2023