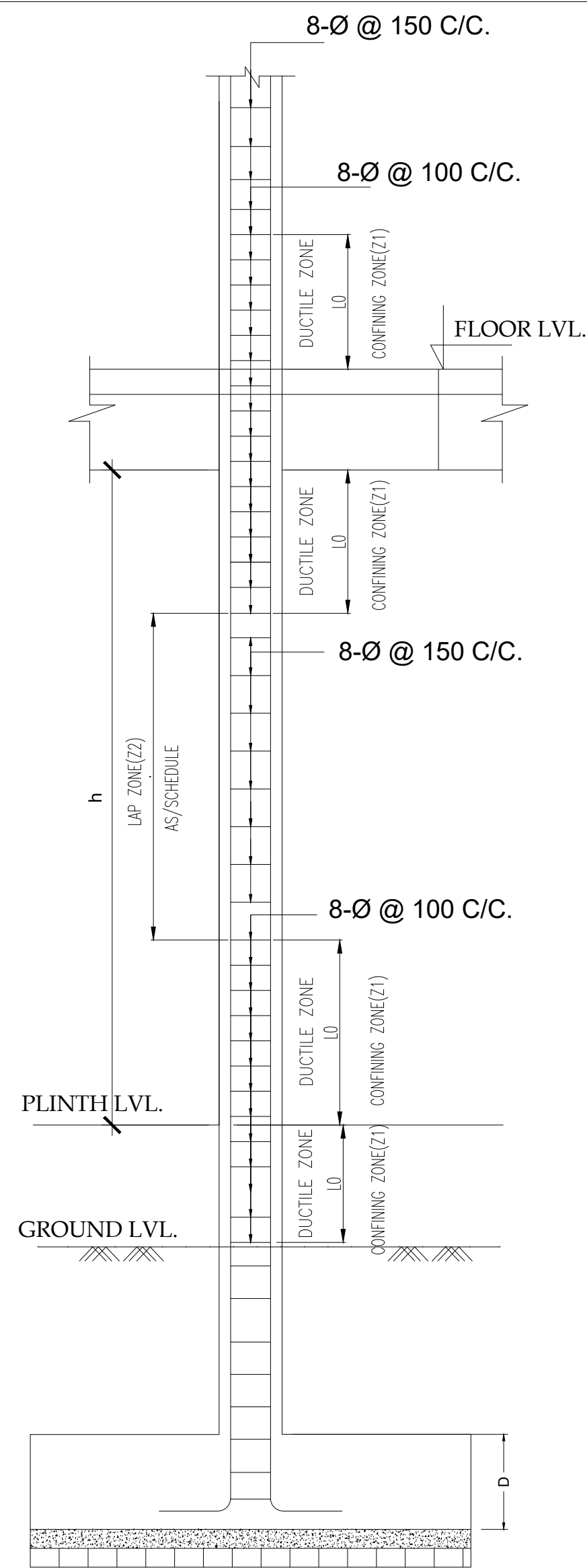
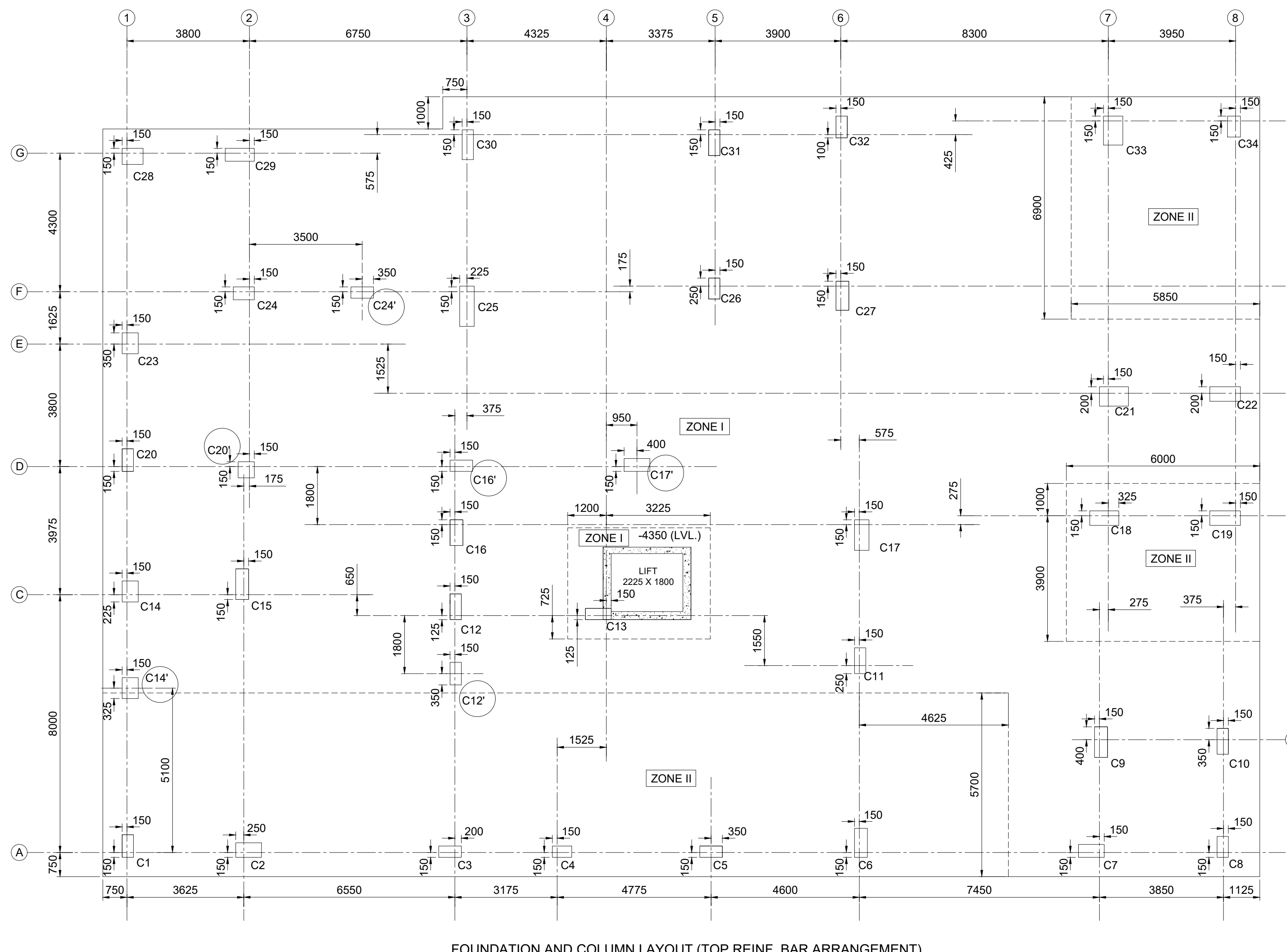


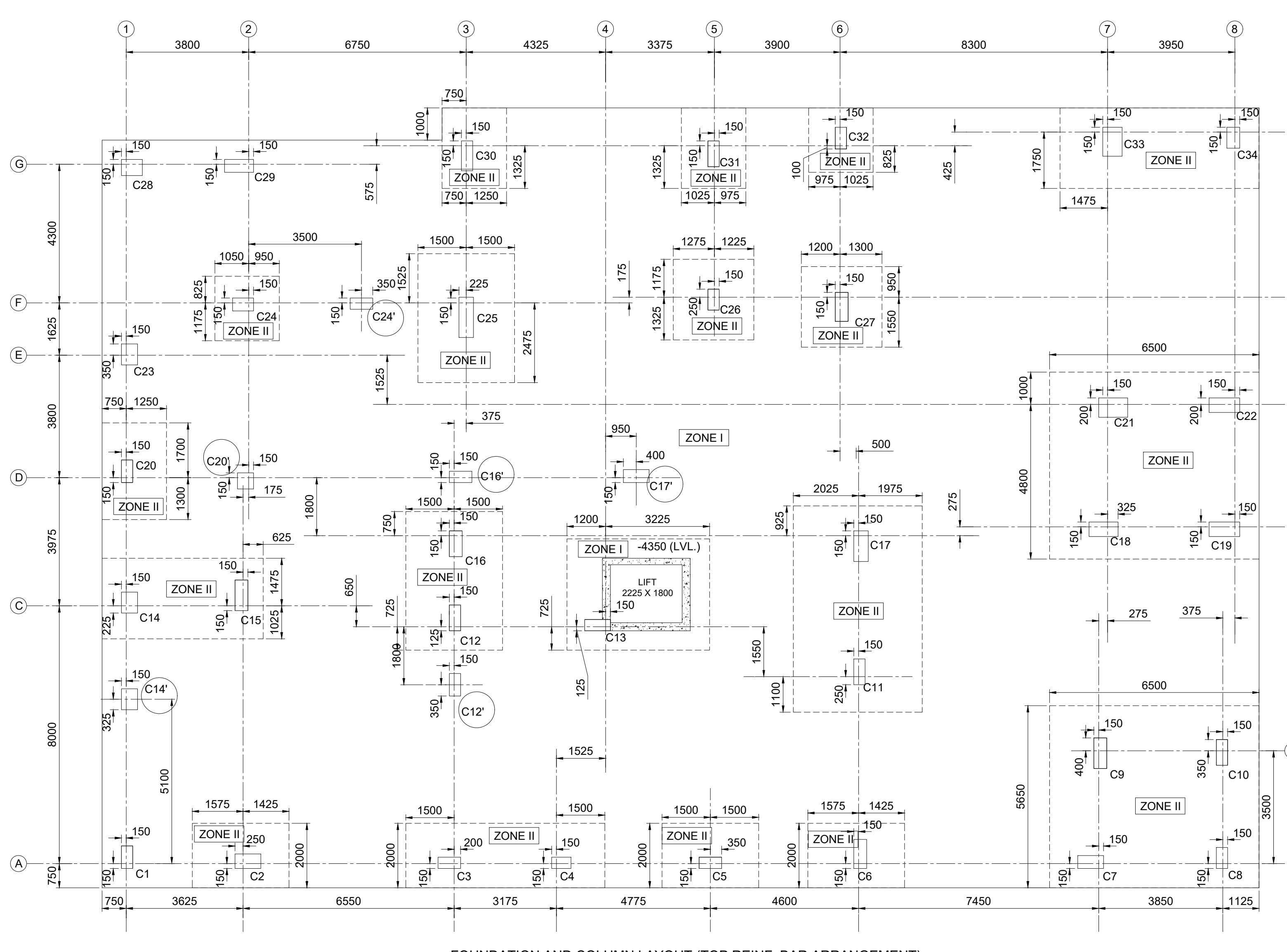


8-Ø @ 150 C/C.  
8-Ø @ 100 C/C.  
8-Ø @ 150 C/C.  
8-Ø @ 100 C/C.

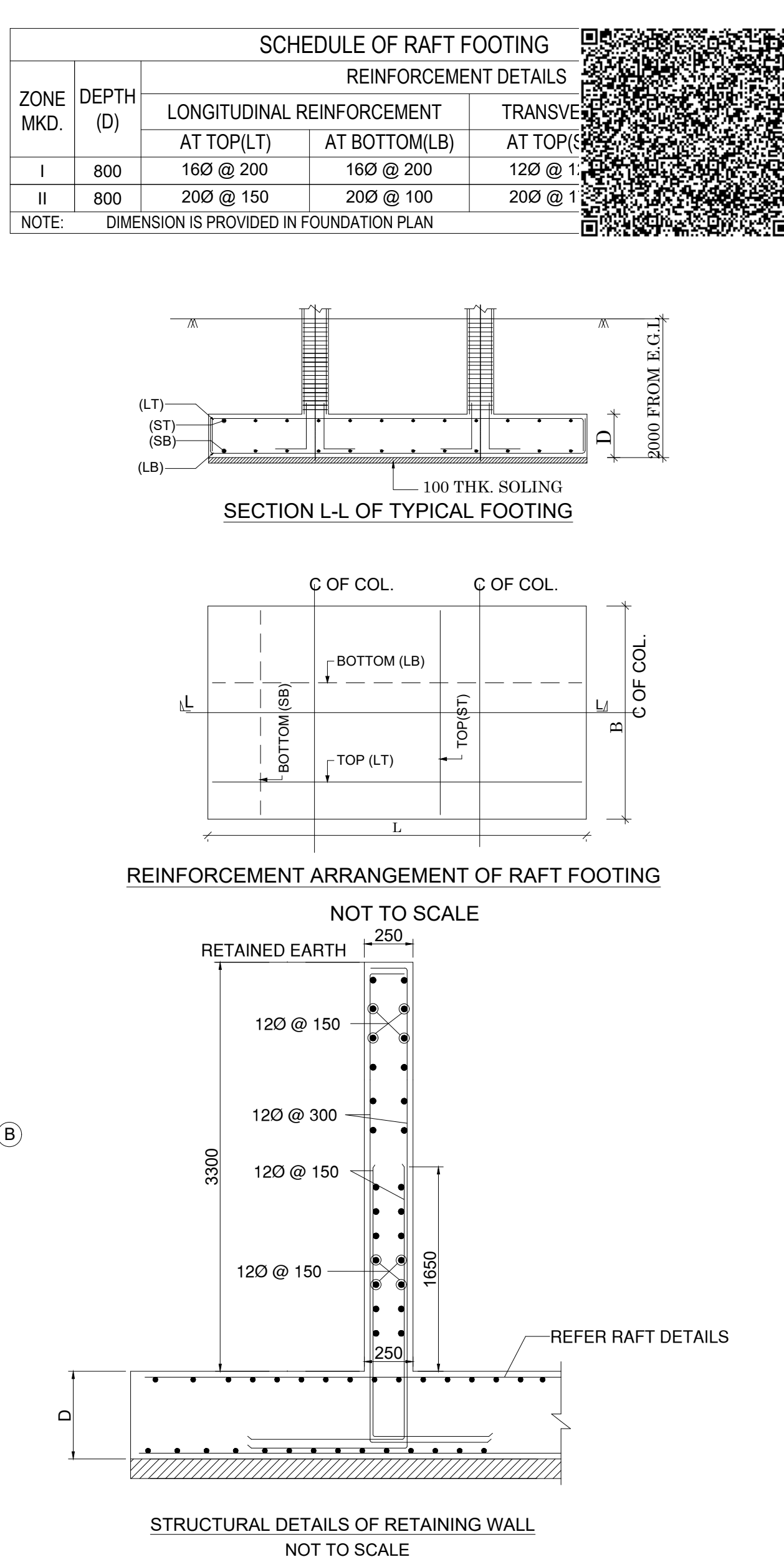
U0 = Shall not be less than,  
a) Larger lateral dimension of the member,  
b) 1/6 of clear span of member,  
c) 450 mm.



FOUNDATION AND COLUMN LAYOUT (TOP REINF. BAR ARRANGEMENT)  
SCALE - 1:100



FOUNDATION AND COLUMN LAYOUT (TOP REINF. BAR ARRANGEMENT)  
SCALE - 1:100



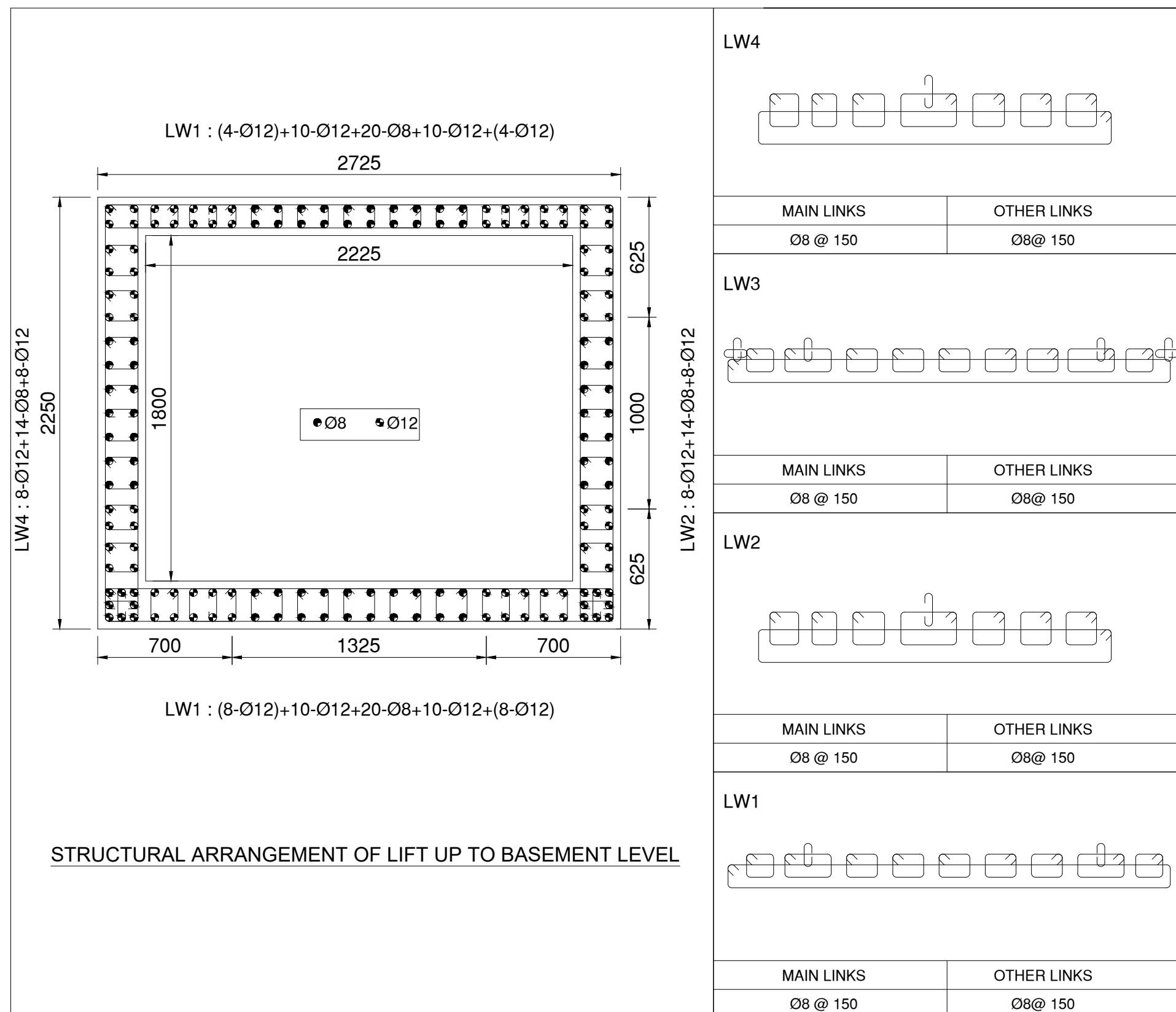
| TYPICAL REINFORCEMENT ARRANGEMENT OF COLUMNS |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|----------------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| 8 MAIN BAR                                   |                  |                  | 12 MAIN BAR      |                  |                  | 14 MAIN BAR      |                  |                  | 16 MAIN BAR      |                  |                  |
|                                              |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| Ø12<br>Ø16                                   | Ø12<br>Ø16       | Ø12<br>Ø16       | Ø12<br>Ø16       | Ø12<br>Ø16       | Ø12<br>Ø16       | Ø12<br>Ø16       | Ø12<br>Ø16       | Ø12<br>Ø16       | Ø12<br>Ø16       | Ø12<br>Ø16       | Ø12<br>Ø16       |
| LINK BAR (3 SET)                             | LINK BAR (4 SET) | LINK BAR (4 SET) | LINK BAR (4 SET) | LINK BAR (4 SET) | LINK BAR (4 SET) | LINK BAR (4 SET) | LINK BAR (4 SET) | LINK BAR (4 SET) | LINK BAR (4 SET) | LINK BAR (4 SET) | LINK BAR (4 SET) |
|                                              |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |

| TYPICAL REINFORCEMENT ARRANGEMENT OF COLUMNS |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|----------------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| 16 MAIN BAR                                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|                                              |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| Ø12<br>Ø16                                   | Ø12<br>Ø16       | Ø12<br>Ø16       | Ø12<br>Ø16       | Ø12<br>Ø16       | Ø12<br>Ø16       | Ø12<br>Ø16       | Ø12<br>Ø16       | Ø12<br>Ø16       | Ø12<br>Ø16       | Ø12<br>Ø16       | Ø12<br>Ø16       |
| LINK BAR (5 SET)                             | LINK BAR (5 SET) | LINK BAR (5 SET) | LINK BAR (5 SET) | LINK BAR (5 SET) | LINK BAR (5 SET) | LINK BAR (5 SET) | LINK BAR (5 SET) | LINK BAR (5 SET) | LINK BAR (5 SET) | LINK BAR (5 SET) | LINK BAR (5 SET) |
|                                              |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |

| SCHEDULE OF COLUMNS |             |      |                                    |                            |                    |          |
|---------------------|-------------|------|------------------------------------|----------------------------|--------------------|----------|
| COLUMN NO.          | COLUMN SIZE |      | LONGITUDINAL REINFORCEMENT DETAILS |                            |                    | STIRRUPS |
|                     | Lx          | Ly   | Up to ground floor                 | Up to 3rd floor slab level | Rest of the floors |          |
| C1                  | 350         | 700  | 6-Ø20+8-Ø16                        | 6-Ø20+8-Ø16                | 14-Ø16             | Ø8@75    |
| C2                  | 800         | 450  | 4-Ø20+14-Ø25                       | 4-Ø20+14-Ø25               | 18-Ø16             | Ø8@75    |
| C3                  | 700         | 350  | 6-Ø25+8-Ø20                        | 6-Ø25+8-Ø20                | 14-Ø16             | Ø8@75    |
| C4                  | 600         | 350  | 6-Ø25+8-Ø20                        | 6-Ø25+8-Ø20                | 14-Ø16             | Ø8@75    |
| C5                  | 700         | 350  | 6-Ø25+8-Ø20                        | 6-Ø25+8-Ø20                | 6-Ø16+8-Ø12        | Ø8@75    |
| C6                  | 400         | 900  | 16-Ø20+6-Ø16                       | 16-Ø20+6-Ø16               | 22-Ø16             | Ø8@75    |
| C7                  | 800         | 400  | 4-Ø20+14-Ø25                       | 4-Ø20+14-Ø25               | 18-Ø16             | Ø8@75    |
| C8                  | 350         | 650  | 16-Ø25                             | 16-Ø25                     | 4-Ø20+12-Ø16       | Ø8@75    |
| C9                  | 400         | 950  | 12-Ø25+8-Ø20                       | 12-Ø25+8-Ø20               | 12-Ø20+8-Ø16       | Ø8@75    |
| C10                 | 350         | 800  | 4-Ø25+12-Ø20                       | 8-Ø20+8-Ø16                | 8-Ø20+8-Ø16        | Ø8@75    |
| C11                 | 350         | 800  | 16-Ø20                             | 8-Ø20+8-Ø16                | 8-Ø20+8-Ø16        | Ø8@75    |
| C12                 | 350         | 700  | 14-Ø25                             | 14-Ø25                     | 8-Ø25+6-Ø20        | Ø8@75    |
| C13                 | 350         | 800  | 12-Ø25+4-Ø20                       | 12-Ø25+4-Ø16               | 12-Ø16+4-Ø12       | Ø8@75    |
| C14                 | 500         | 650  | 20-Ø25                             | 20-Ø25                     | 4-Ø25+12-Ø20       | Ø8@75    |
| C15                 | 400         | 950  | 18-Ø25+8-Ø20                       | 18-Ø25+4-Ø20               | 18-Ø20+4-Ø16       | Ø8@75    |
| C16                 | 400         | 800  | 18-Ø25                             | 12-Ø20+6-Ø16               | 12-Ø16+6-Ø12       | Ø8@75    |
| C17                 | 700         | 350  | 4-Ø25+10-Ø20                       | 4-Ø25+10-Ø20               | 14-Ø20             | Ø8@75    |
| C18                 | 450         | 950  | 18-Ø25+4-Ø20                       | 22-Ø20                     | 22-Ø16             | Ø8@75    |
| C19                 | 800         | 400  | 4-Ø16+14-Ø20                       | 4-Ø16+14-Ø20               | 4-Ø20+14-Ø16       | Ø8@75    |
| C20                 | 350         | 450  | 16-Ø20+6-Ø16                       | 16-Ø20+6-Ø16               | 22-Ø16             | Ø8@75    |
| C21                 | 900         | 600  | 12-Ø25+14-Ø20                      | 12-Ø25+14-Ø20              | 26-Ø16             | Ø8@75    |
| C22                 | 950         | 450  | 18-Ø25+4-Ø20                       | 18-Ø25+4-Ø20               | 18-Ø20+4-Ø25       | Ø8@75    |
| C23                 | 500         | 650  | 12-Ø25+8-Ø16                       | 12-Ø25+8-Ø16               | 20-Ø16             | Ø8@75    |
| C24                 | 650         | 400  | 14-Ø25                             | 14-Ø25                     | 14-Ø25             | Ø8@75    |
| C25                 | 700         | 350  | 4-Ø25+10-Ø20                       | 4-Ø25+10-Ø20               | 4-Ø20+10-Ø16       | Ø8@75    |
| C26                 | 450         | 1250 | 8-Ø25+18-Ø20                       | 26-Ø16                     | 12-Ø16+14-Ø12      | Ø8@75    |
| C27                 | 350         | 650  | 16-Ø25                             | 16-Ø25                     | 16-Ø16             | Ø8@75    |
| C28                 | 600         | 500  | 16-Ø20+4-Ø25                       | 16-Ø20+4-Ø25               | 20-Ø16             | Ø8@75    |
| C29                 | 300         | 400  | 12-Ø25+8-Ø20                       | 12-Ø25+8-Ø20               | 20-Ø16             | Ø8@75    |
| C30                 | 350         | 925  | 14-Ø20+6-Ø16                       | 14-Ø20+6-Ø16               | 20-Ø16             | Ø8@75    |
| C31                 | 350         | 800  | 8-Ø25+8-Ø20                        | 8-Ø25+8-Ø20                | 12-Ø20+4-Ø16       | Ø8@75    |
| C32                 | 350         | 675  | 6-Ø25+8-Ø20                        | 6-Ø25+8-Ø20                | 14-Ø16             | Ø8@75    |
| C33                 | 600         | 900  | 8-Ø25+14-Ø20                       | 22-Ø20                     | 8-Ø20+14-Ø16       | Ø8@75    |
| C34                 | 400         | 650  | 12-Ø20+4-Ø16                       | 12-Ø20+4-Ø16               | 16-Ø16             | Ø8@75    |
| SC                  | 300         | 300  | -                                  | -                          | 4-Ø16+4-Ø12        | -        |

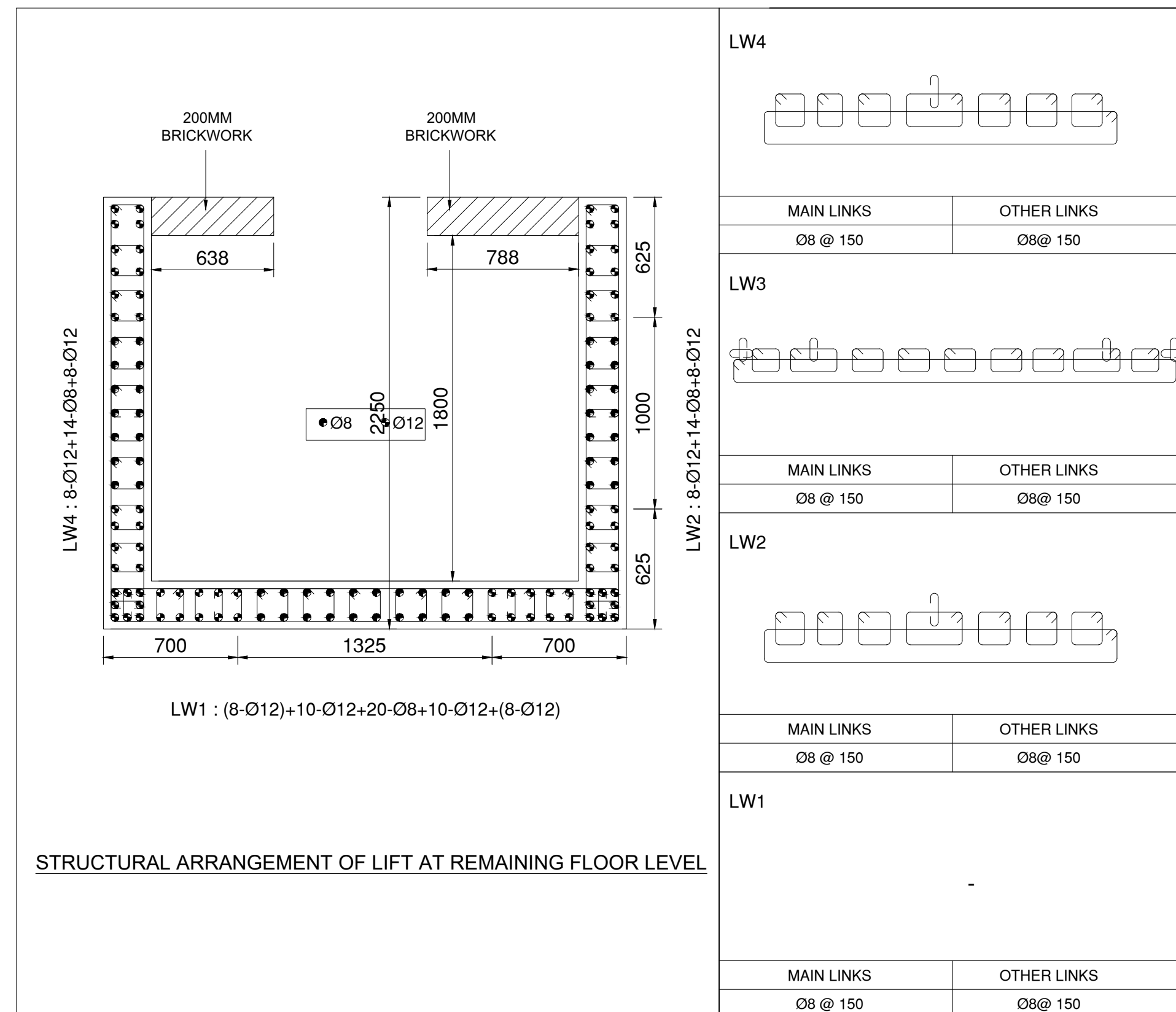
NOTE: COL. MKD 'SC' WILL START FROM ROOF LVL.

| TYPICAL REINFORCEMENT ARRANGEMENT OF COLUMNS |                  |                  |
|----------------------------------------------|------------------|------------------|
| 18 MAIN BAR                                  |                  | 20 MAIN BAR      |
|                                              |                  |                  |
| Ø12<br>Ø16                                   | Ø12<br>Ø16       | Ø12<br>Ø16       |
| LINK BAR (5 SET)                             | LINK BAR (5 SET) | LINK BAR (5 SET) |
|                                              |                  |                  |



STRUCTURAL ARRANGEMENT OF LIFT UP TO BASEMENT LEVEL

| TYPICAL REINFORCEMENT ARRANGEMENT OF COLUMNS |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|----------------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| 26 MAIN BAR                                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|                                              |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| Ø12<br>Ø16                                   | Ø12<br>Ø16       | Ø12<br>Ø16       | Ø12<br>Ø16       | Ø12<br>Ø16       | Ø12<br>Ø16       | Ø12<br>Ø16       | Ø12<br>Ø16       | Ø12<br>Ø16       | Ø12<br>Ø16       | Ø12<br>Ø16       | Ø12<br>Ø16       |
| LINK BAR (7 SET)                             | LINK BAR (7 SET) | LINK BAR (7 SET) | LINK BAR (7 SET) | LINK BAR (7 SET) | LINK BAR (7 SET) | LINK BAR (7 SET) | LINK BAR (7 SET) | LINK BAR (7 SET) | LINK BAR (7 SET) | LINK BAR (7 SET) | LINK BAR (7 SET) |
|                                              |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |



STRUCTURAL ARRANGEMENT OF LIFT AT REMAINING FLOOR LEVEL

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 2.7M IN DESIGN FOR A BEARING CAPACITY OF 240 KNS/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   |
7. 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.
8. ALL DIMENSIONS AND DETAILS ARE TYPICAL UNLESS INDICATED OTHERWISE.
9. THIS DRAWING WILL BE READ IN CONJUNCTION WITH CONTRACT DOCUMENT.
10. DESIGN IS BASED ON IS:456-2000, IS:1893(PART 1)-2016, IS:875(PART I&II)-1987

PROJECT TITLE:-  
BASEMENT+G+5 STORIED RESIDENTIAL CUM COMMERCIAL BUILDING OF SAMRIDHI VENTURES REPRESENTED BY SMT. ANKITA GOYAL

DRAWING TITLE:- FOUNDATION, COLUMN, LIFT AND RETAINING WALL DETAILS

DECLARATION

We do hereby certify that the foundation and superstructure of the building proposed for construction on Plot no: 10575 (R.S.), 3148, 3149(R.F.) At Rashtabhat Sarani, Hakimpore, Siliguri P.S., Siliguri Dist. - Darjeeling 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 7908820322/ 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  
DEALT BY: N. RAI  
CHECKED BY: R. CHAKRABORTI

REV. NO. DATE

SCALE: 1:100 SHEET NO. STR/01 DATE: 15/01/2025