

BUNYAN ARCHITECTURAL DESIGN  
Eng. Consulting / Architecture Design  
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PROJECT NAME :

Supper Market

Sheet Name:

Foundation Plan

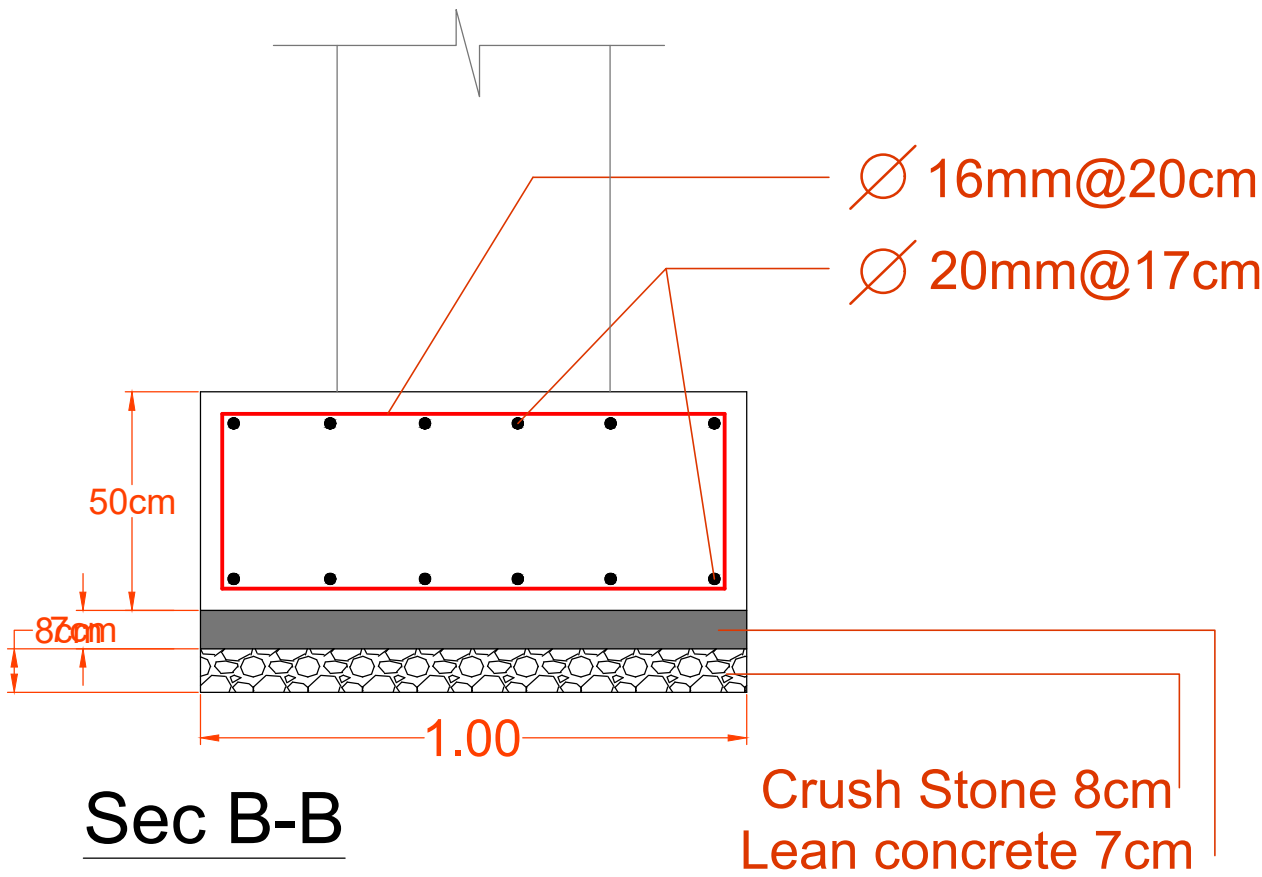
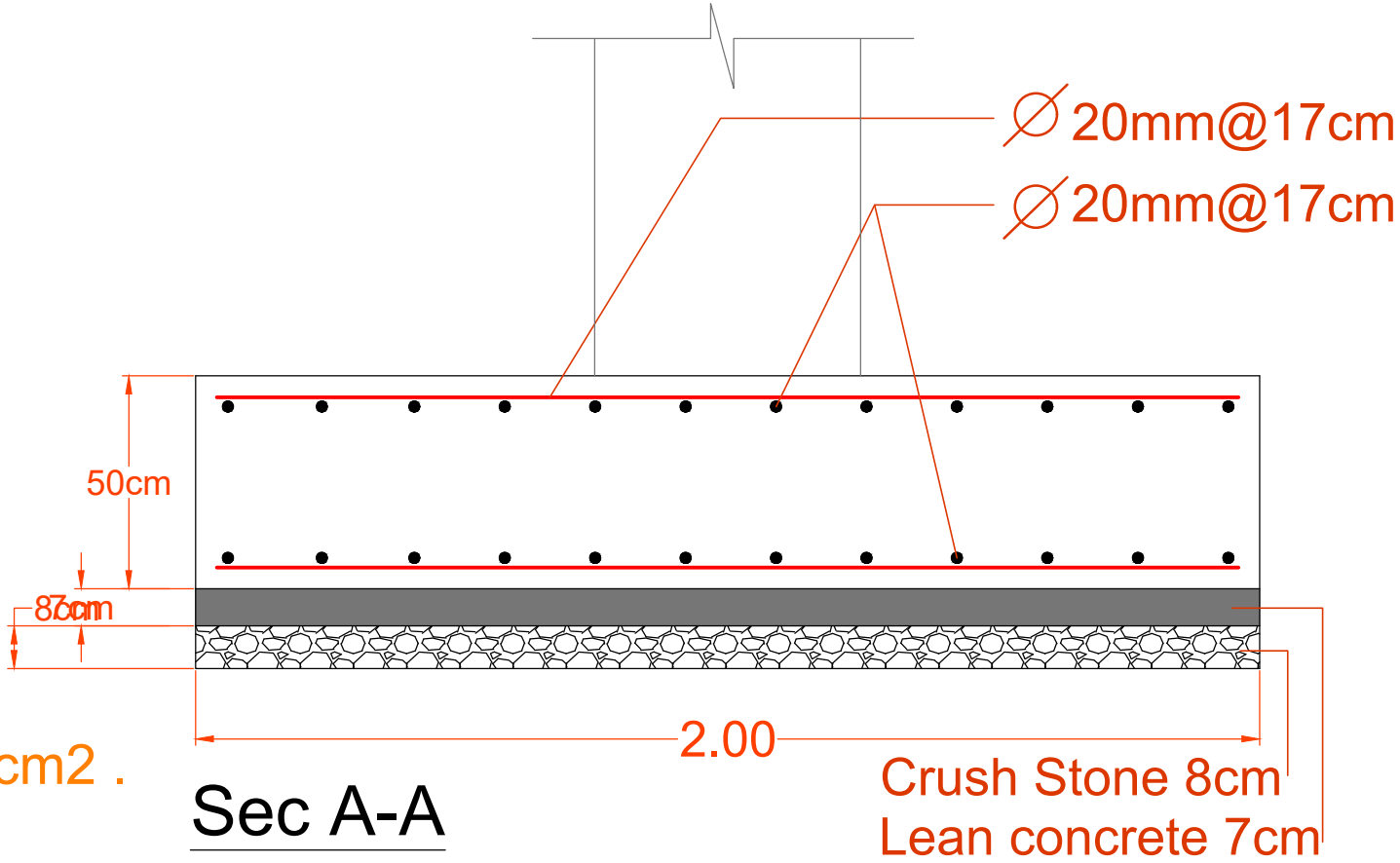
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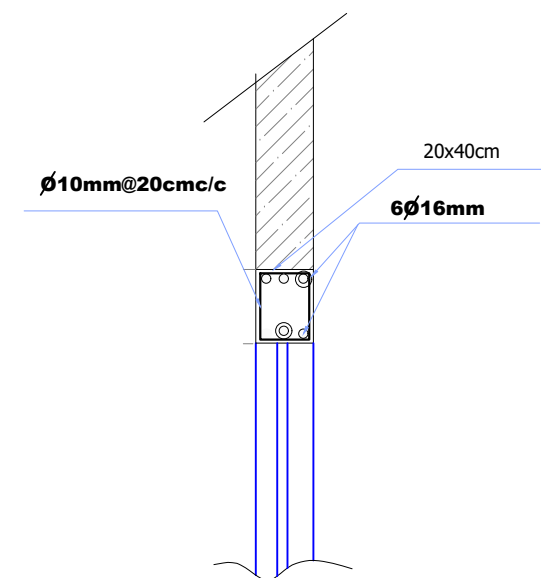
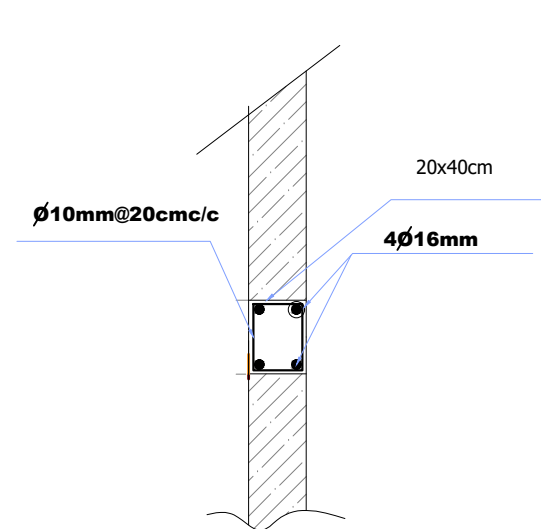
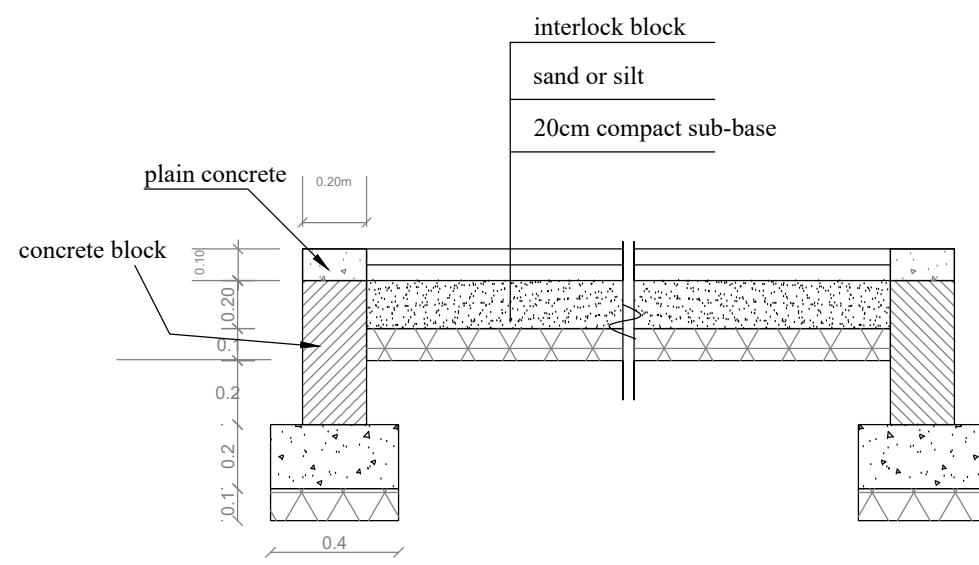
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General Notes :

- 1- Design followed ACI Code 2005.
  - 2- Concrete compressive Strength ( based on cube 15\*15cm ) must not be less than :
    - \_ For Foundations, Walls, Beams, and Slabs 260 Kg / cm2 .
    - \_ For columns .. 350 Kg / cm2 .
  - 3- Steel yield strength should not be less than 414 Mpa ( Grade 60 ) for all types of reinforcement .
  - 4- Clear cover must be as follows :
    - \_ Foundation ....4 cm on lean concrete .
    - \_ Columns & beams ..... 4 cm .
    - \_ Slabs and Walls ..... 2 cm .
  - 5- Standard hooks should be provide when required .
  - 6- Allowable bearing capacity of Soil , = 7 ton / m2 (assumed)
  - 7-width of col.strip=0.25\*span in each side.
  - 8-width of M.strip=span-width of col.strip.
- A -col.strip O 25mm @17.5cm c/c (TOp&Bottom).
- B- M.strip O 16mm @20cm c/c (Top&Bottom).

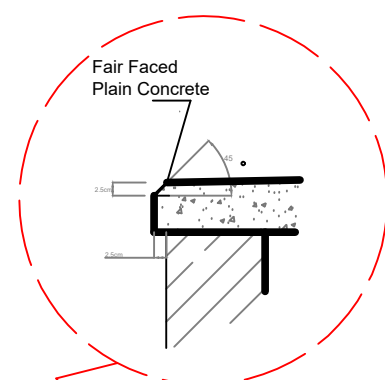




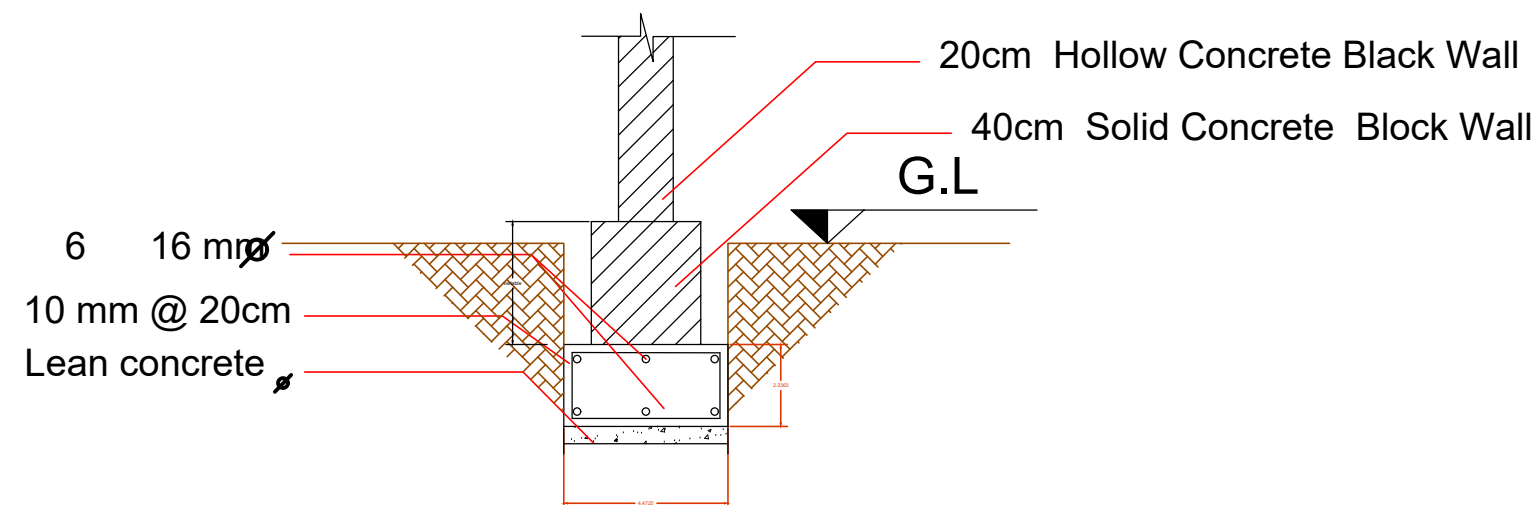
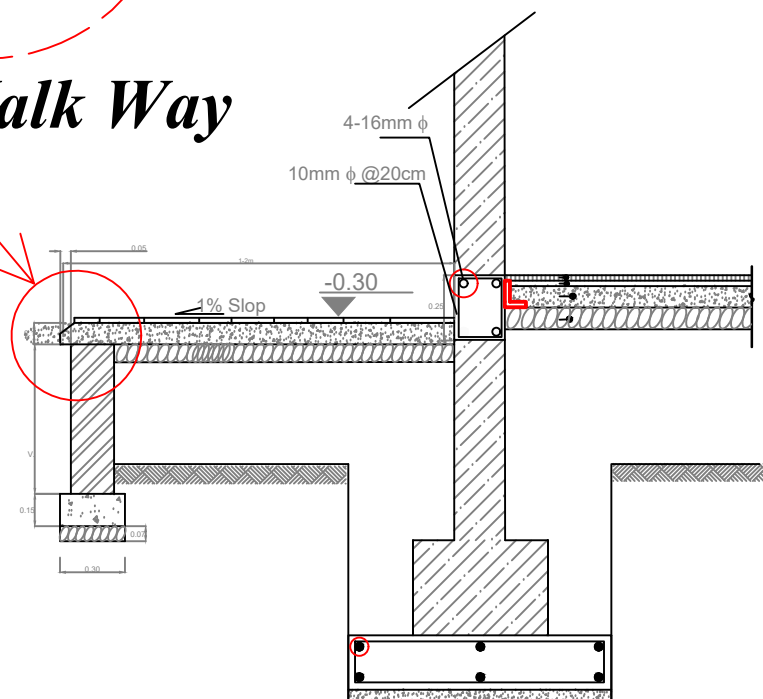
aboveThe Wall

Above Opening

## Detail of Tie Beam



**Walk Way**



## Details Foundation

**(Apron Detail)**

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Standard Details

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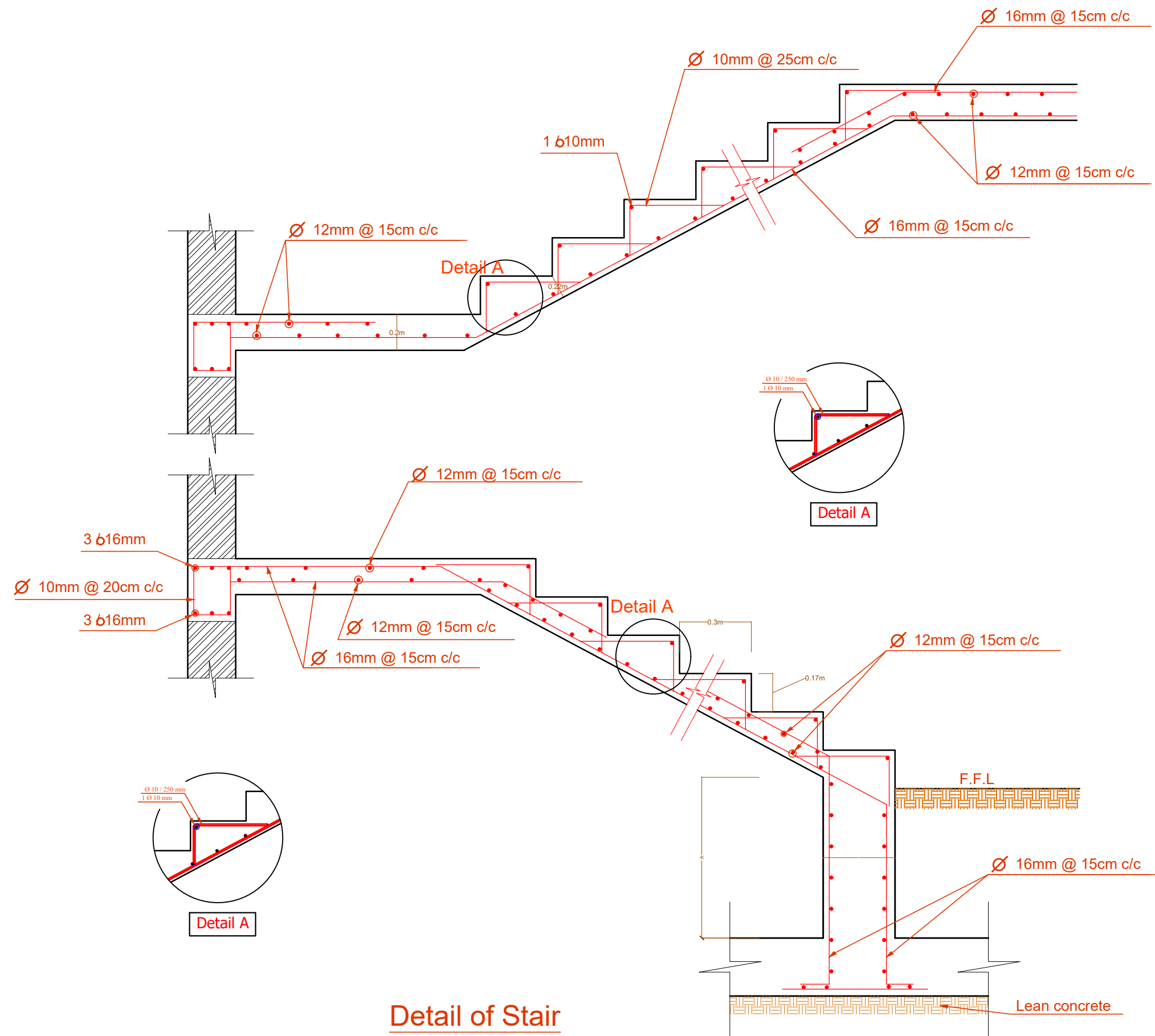
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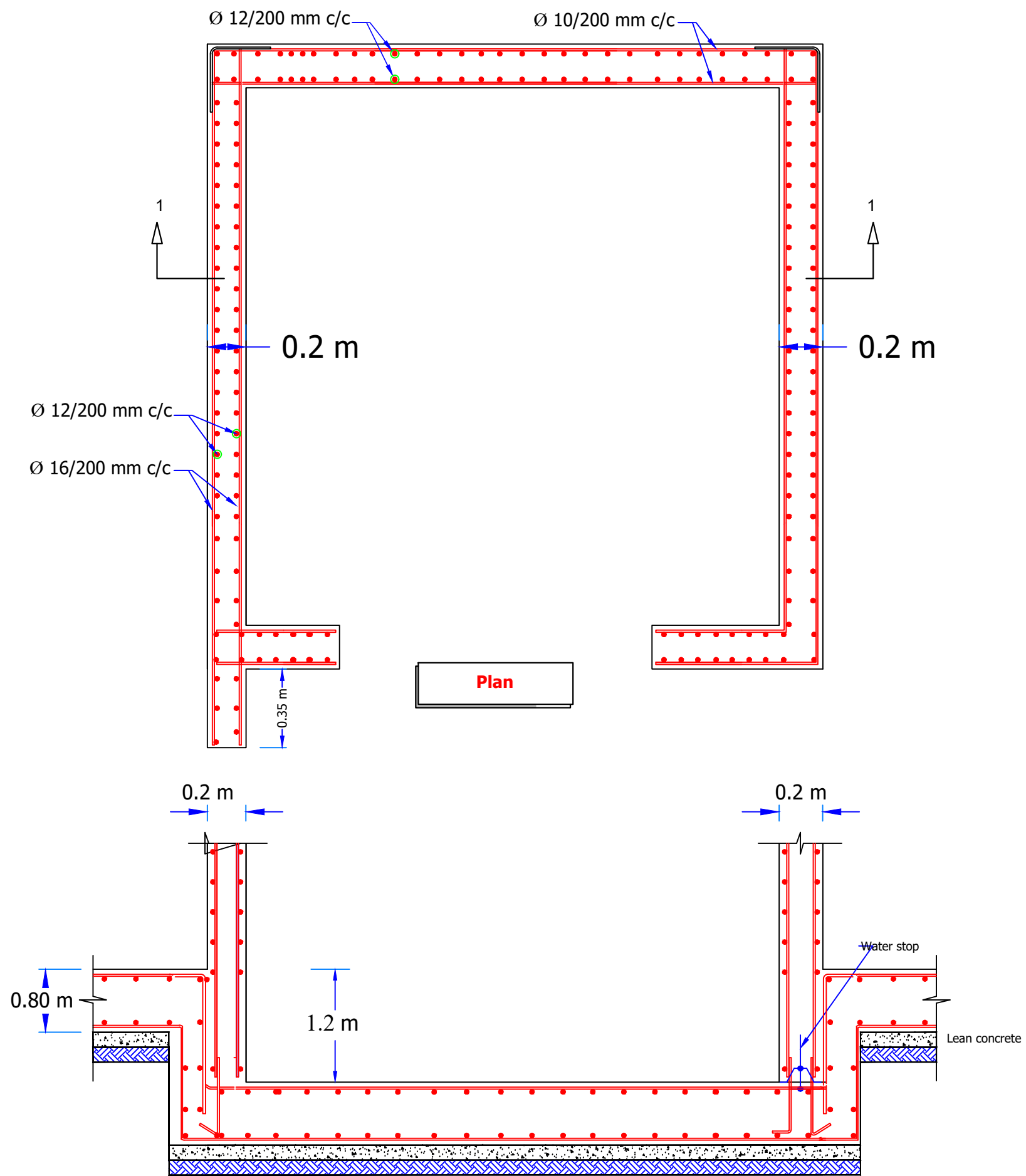
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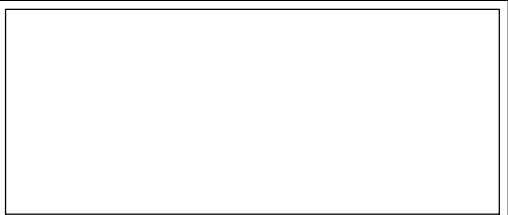
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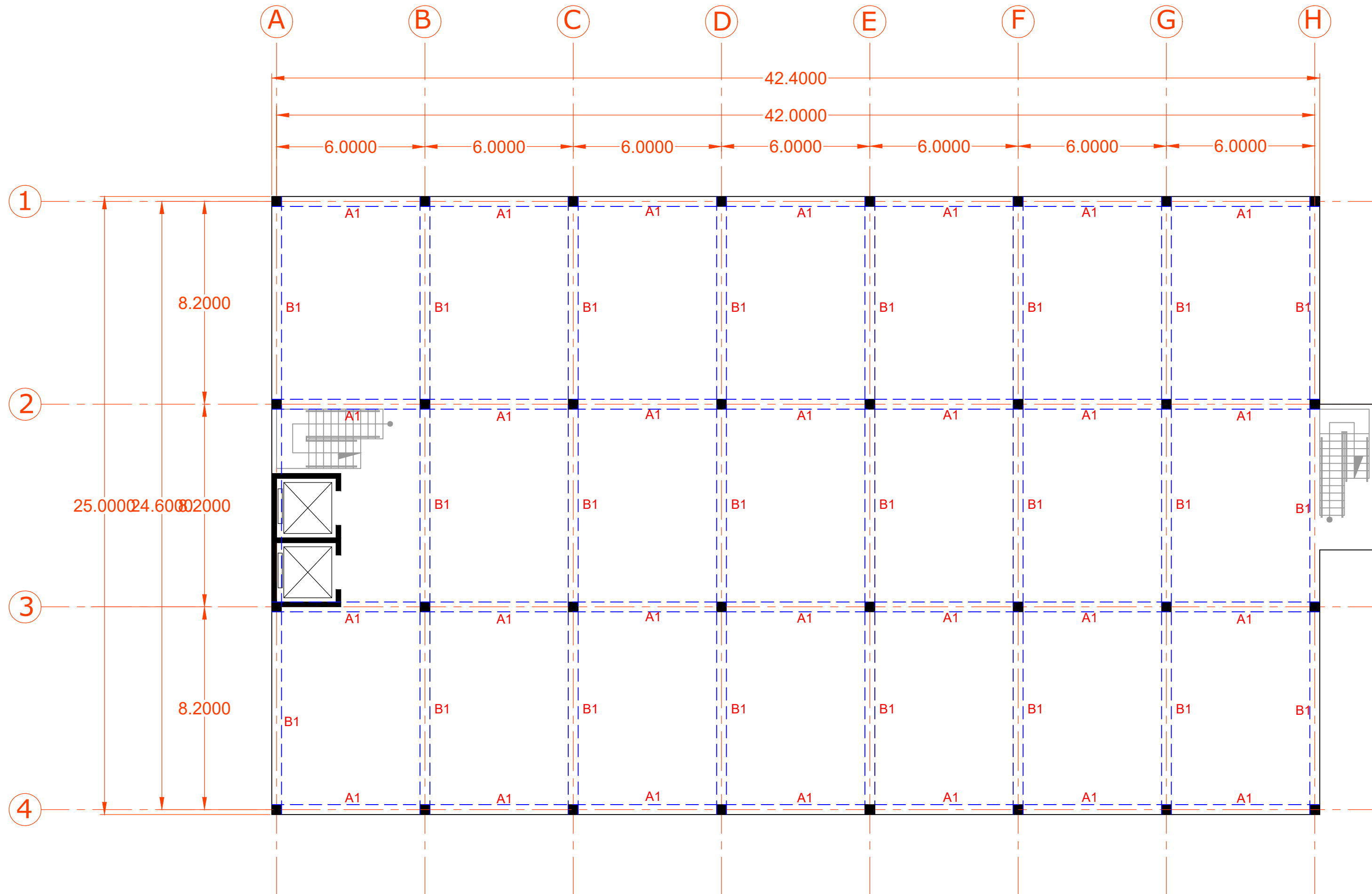
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DETAIL  
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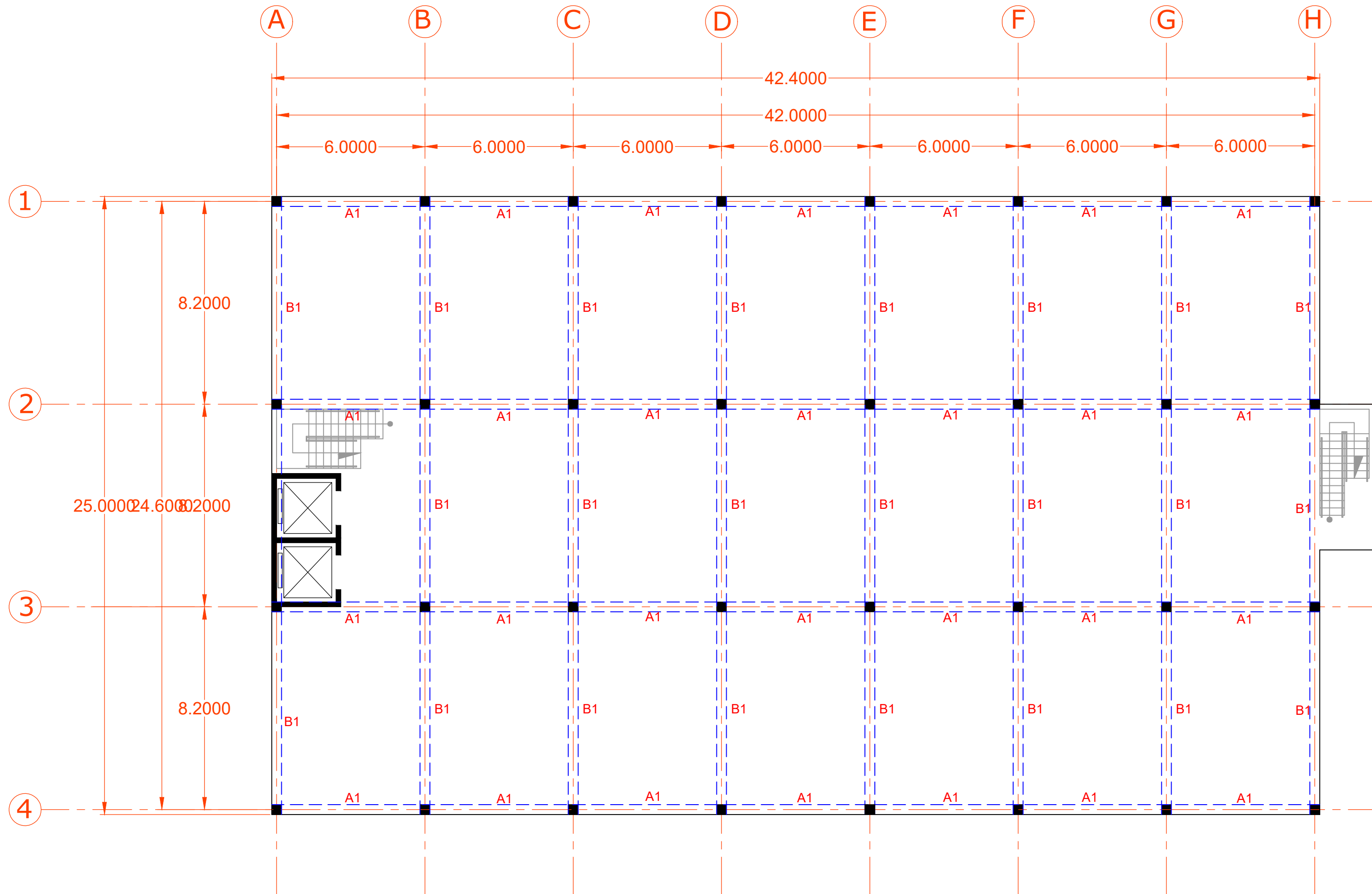
BEAM PLAN  
BASEMENT PLAN

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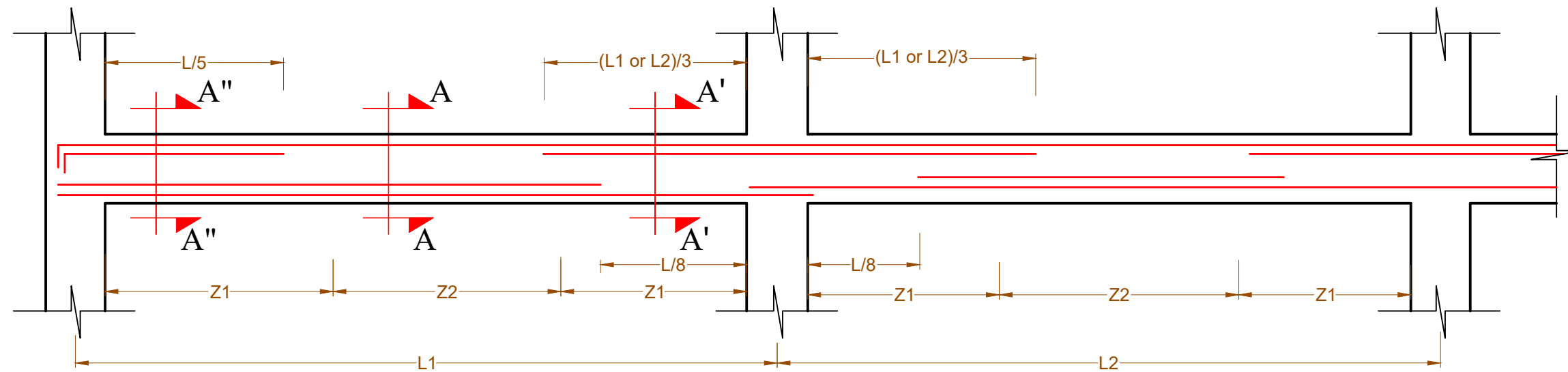
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BEAM PLAN  
TYPICAL FLOOR PLAN

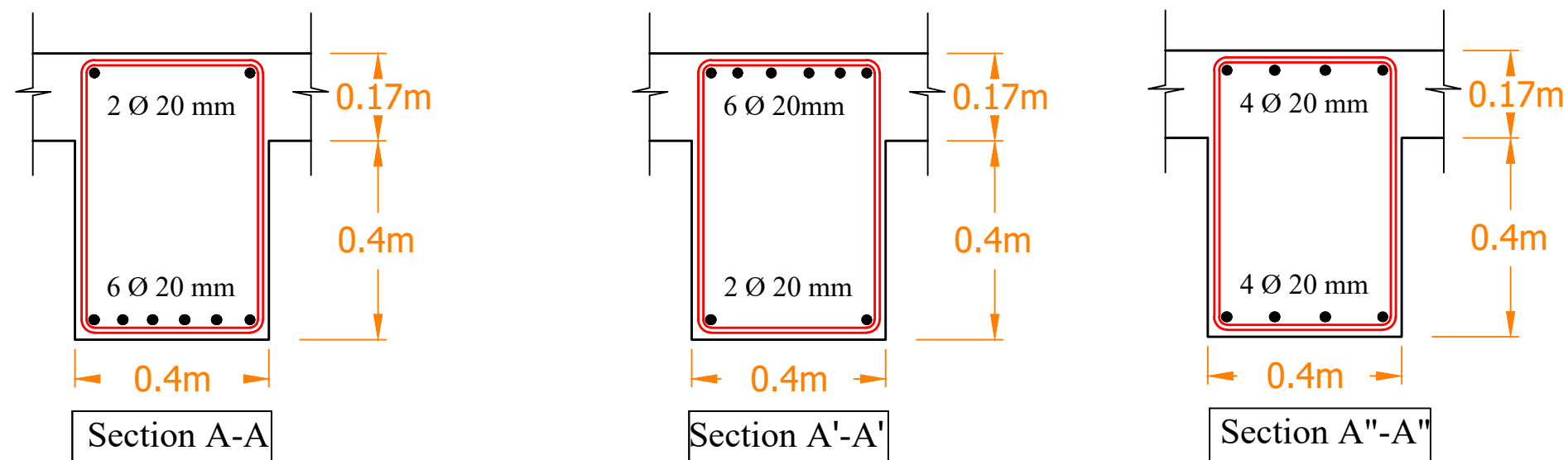
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a- Longitudinal Section

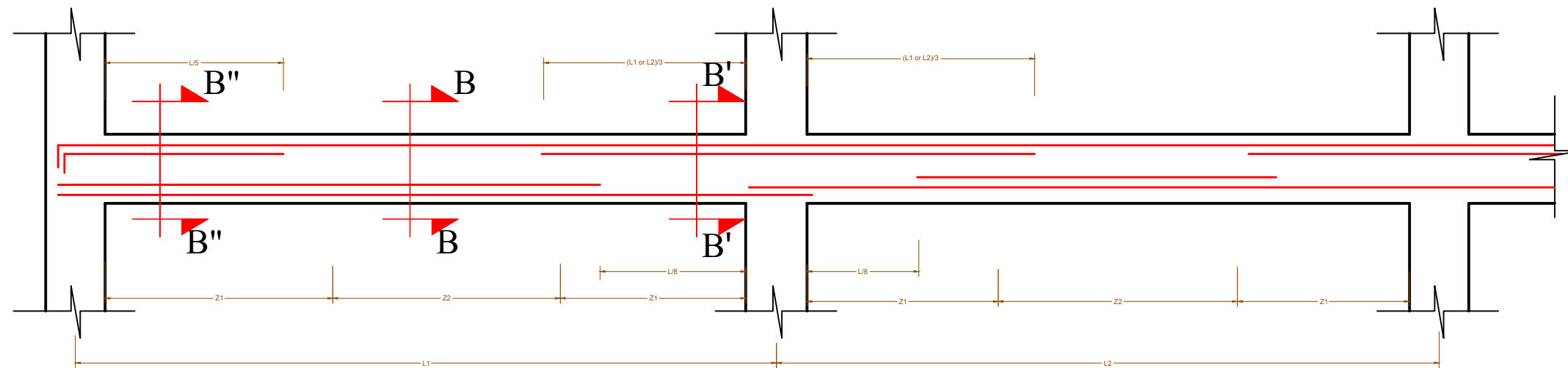


b- Cross Sections  
Detail of beam (A1)

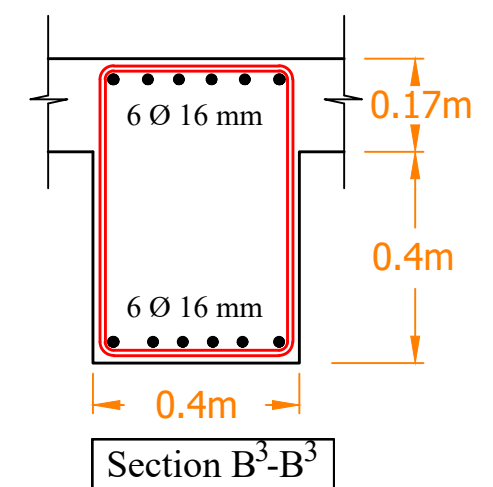
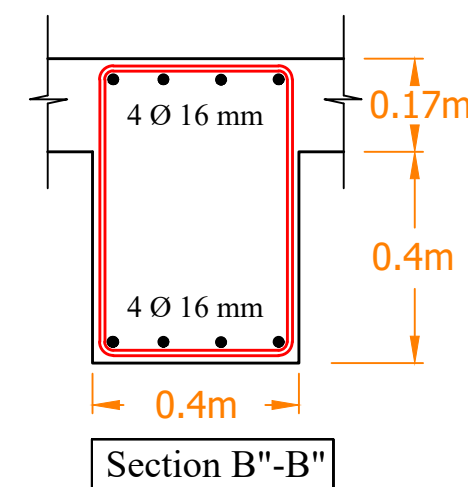
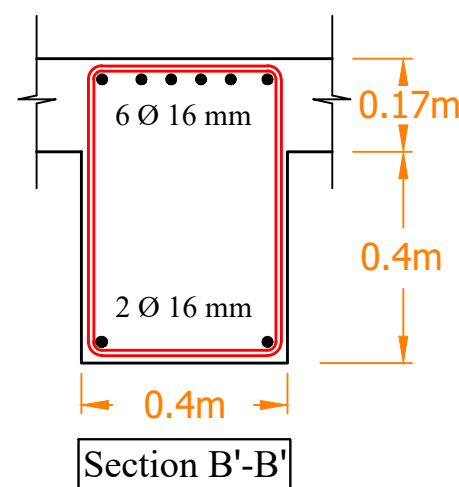
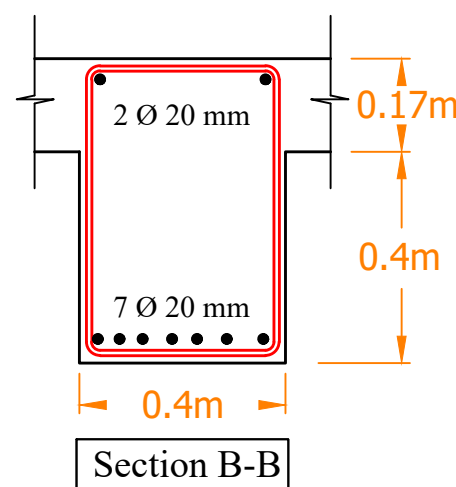
**Note:**

1.  $Z1 = L/4$  , use F 10mm @15cm c/c.
2.  $Z2 = L/2$  , use F10mm @ 20cm c/c.
3. locate first stirrup at face of column .
4. Locate the second stirrup at distance 5cm from the face of column .
5. Lap splices ( over lap ) should be as follows :
  - a- for F 12mm > 60cm .
  - b- for F 16mm > 75 cm.
  - c- for F 25mm > 120cm .
6. Standard hooks should be provide .





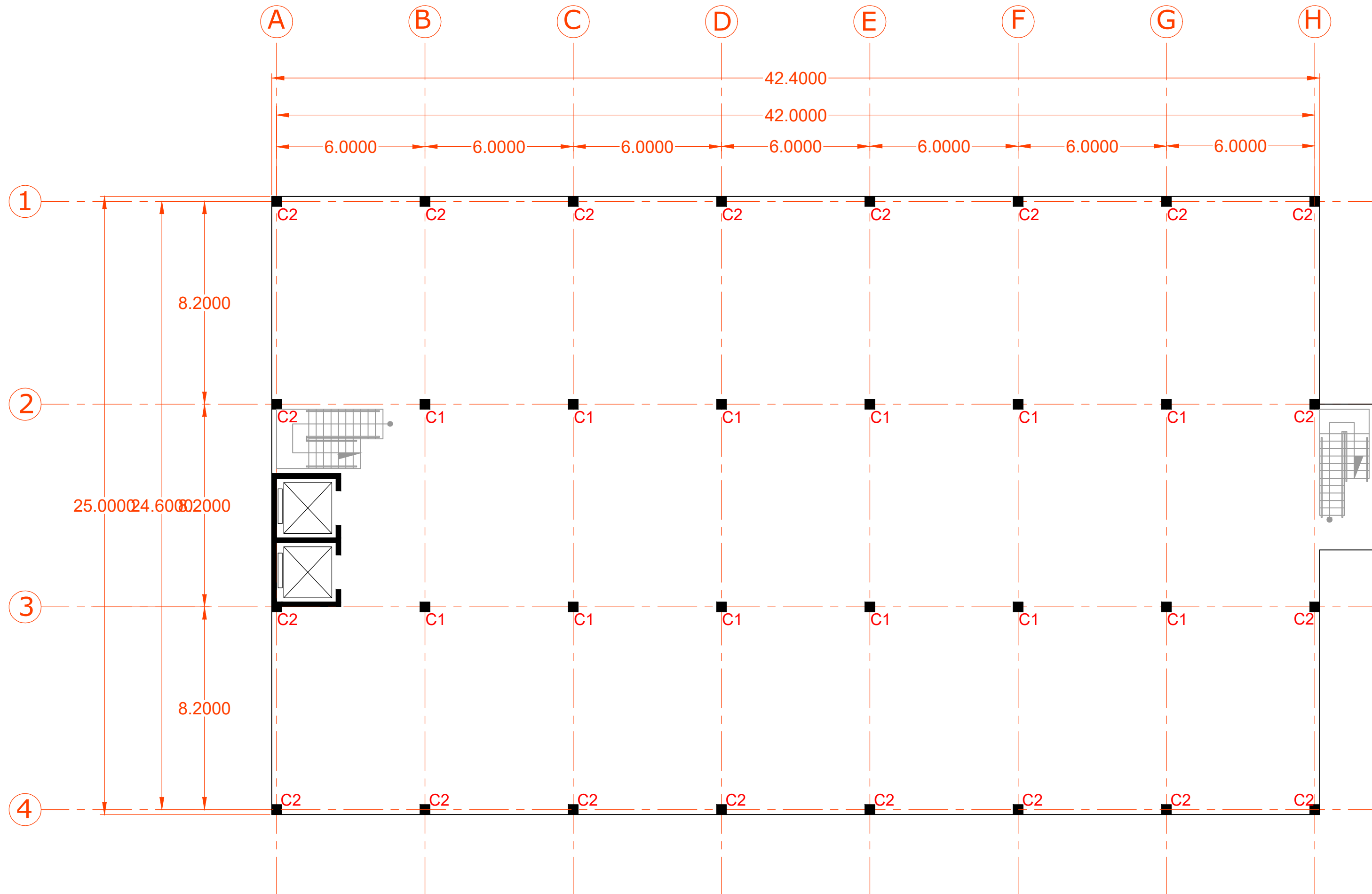
a- Longitudinal Section



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  - c- for F 25mm > 120cm .
6. Standard hooks should be provide .

b- Cross Sections  
Detail of beam (B1)



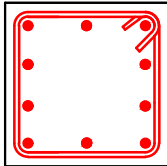
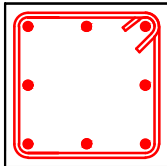
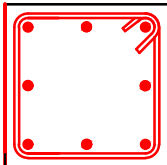
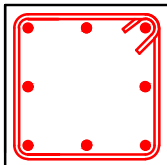
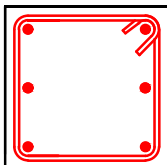
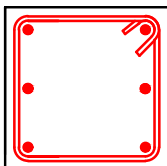
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**Supper Market**

Sheet Name:  
**COLUMN PLAN**

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Floor plan	Symbol	basment&Ground Floor			Detail
		dimension cm	Reinforcement	strip Reinforcement	
basement	C1	50 * 50	10 Ø 16 mm	Ø 10 / 200 mm c/c	
	C2	50 * 50	8 Ø 16 mm	Ø 10 / 200 mm c/c	
Ground floor plan	C1	40 * 40	8 Ø 16 mm	Ø 10 / 200 mm c/c	
	C2	40 * 40	8 Ø 16 mm	Ø 10 / 200 mm c/c	
1st floor plan	C1	40 * 40	6 Ø 16 mm	Ø 10 / 200 mm c/c	
	C2	40 * 40	6 Ø 6 mm	Ø 10 / 200 mm c/c	

**Note :**  
1- Use Ø 10mm @ 20cm for all columns and for all stories ,  
at beam\_ column connection , use at least 5 -> Ø10mm@ 10cm c/c . .  
2- Concrete compressive strength ,  $f_c' \geq 28\text{Mpa}$  ;  
i-e cube strength  $> 350\text{ kg/cm}^2$  .

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DETAIL OF COLUMN

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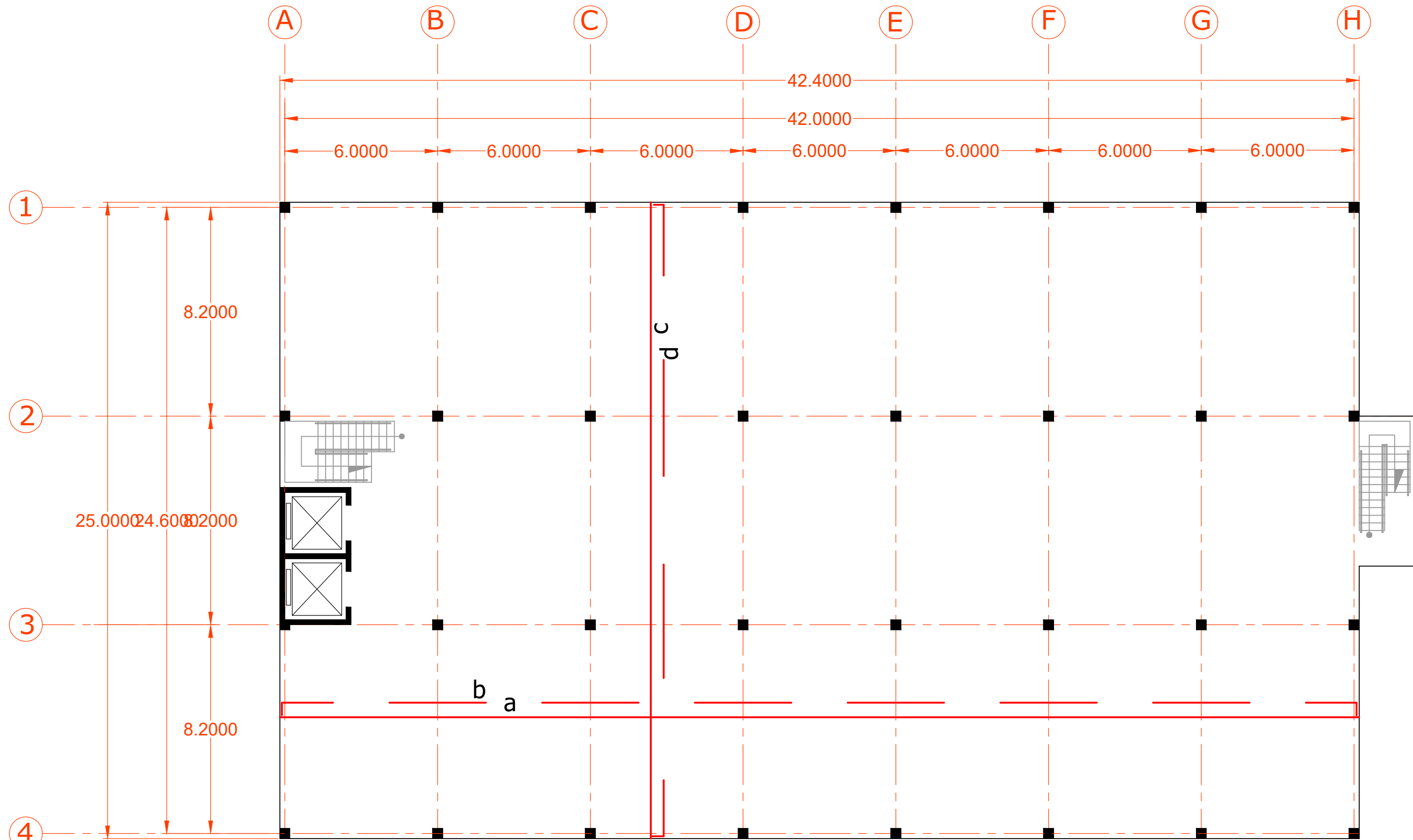
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### Slab Reinforcement :

Thickness = 17 cm

c Ø12 / 20 mm c/c ( Bottom Cont. )

d Ø12 / 20 mm c/c ( Top Cut )

a Ø12 / 20 mm c/c ( Bottom Cont. )

b Ø12 / 20 mm c/c ( Top Cut )

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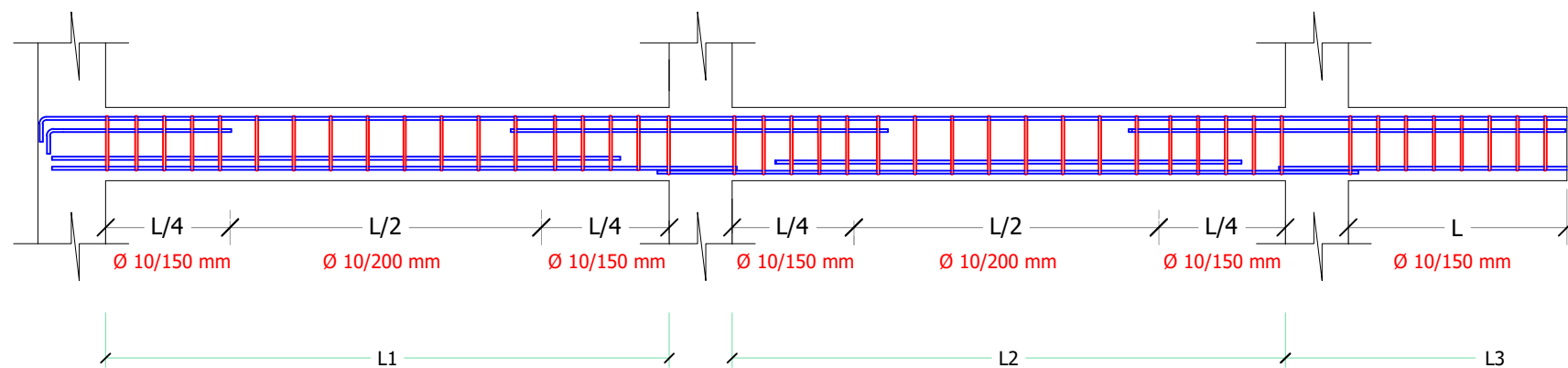
Reinforcement plan

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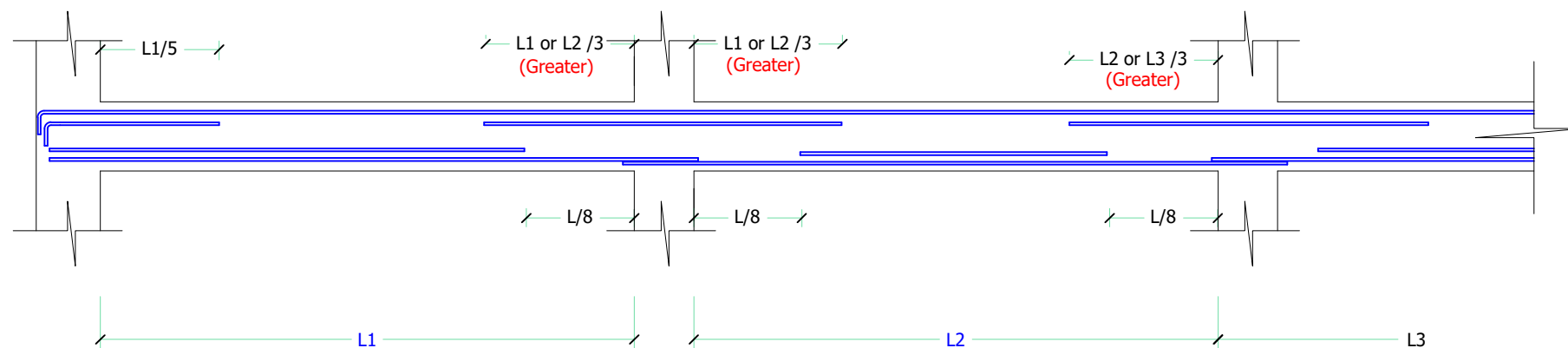
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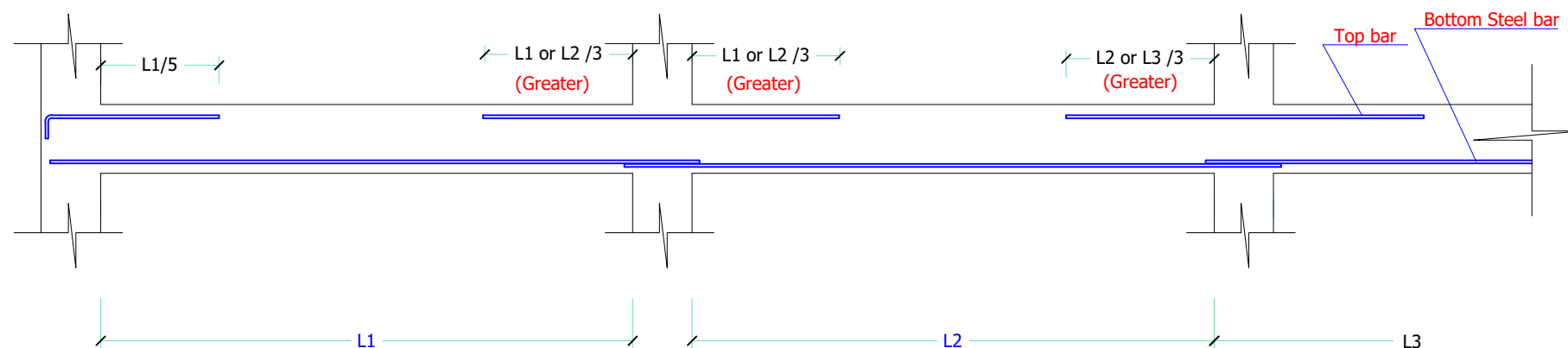
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Detail of Stirrups location for all R.c beams exept beams that indicated in sections



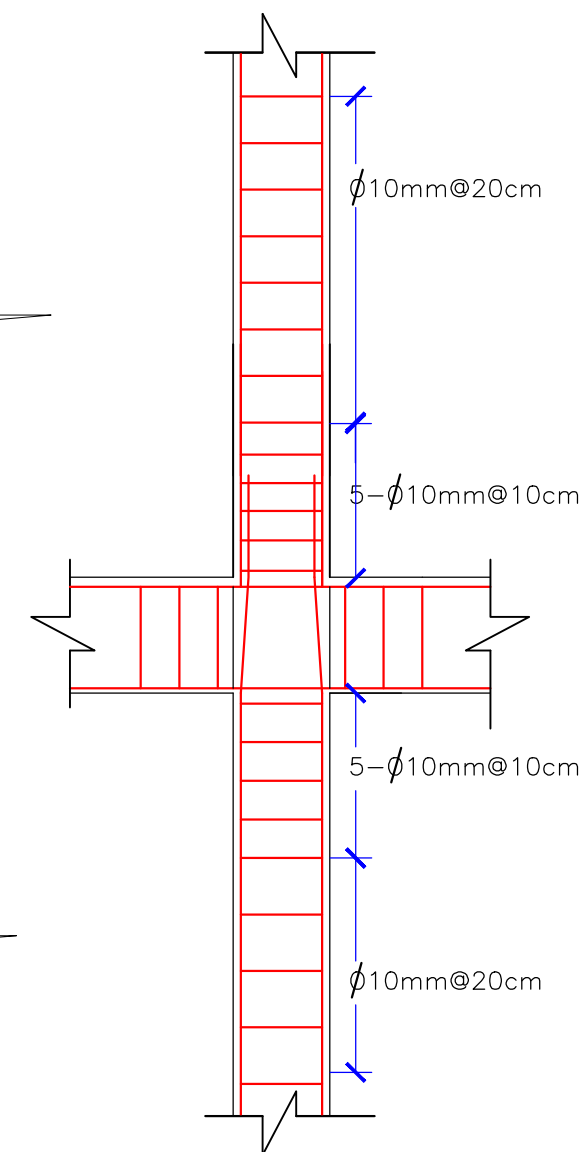
Detail of cut-off bars for R.c beams



Detail of cut-off bars for R.c slabs

Note :

- Additional bars ( Top bars ), holded by links , using 10mm dia. each 50cm



(Beam-Column) Intersection Detail

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Typical Detail

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