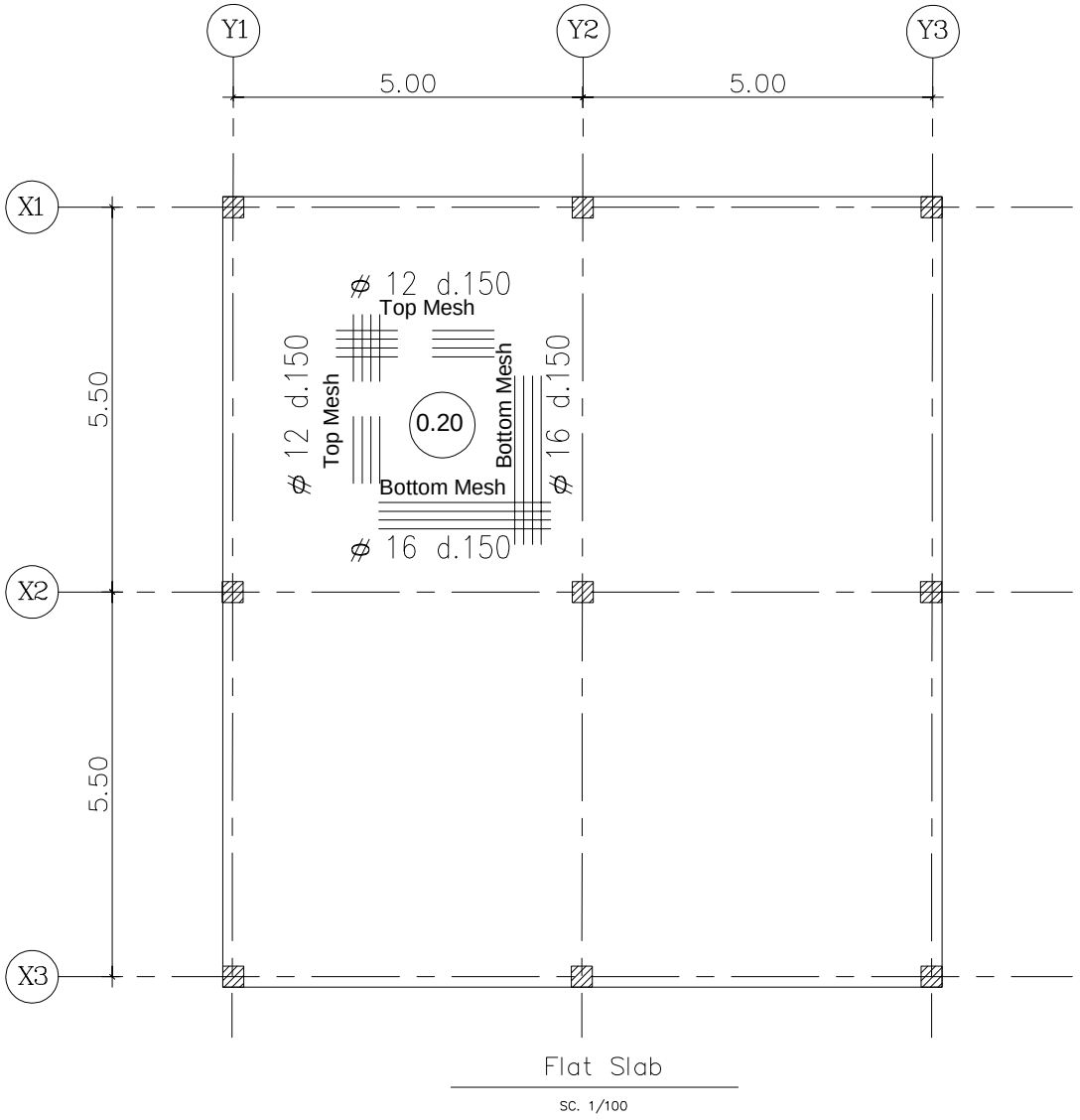
For the following figure:

1- Draw the slab layout using the AutoCAD program.

2- Calculate the necessary reinforcement quantities for casting the slab.

3- Draw a plan indicating bar marks and lengths for all bars.

4- Draw the bar bending schedule (BBS) using the AutoCAD program.



Rebars Weight	
Diameter	Unit Wt (kg/m)
ϕ 8	0.394
ϕ 10	0.617
ϕ 12	0.888
ϕ 14	1.208

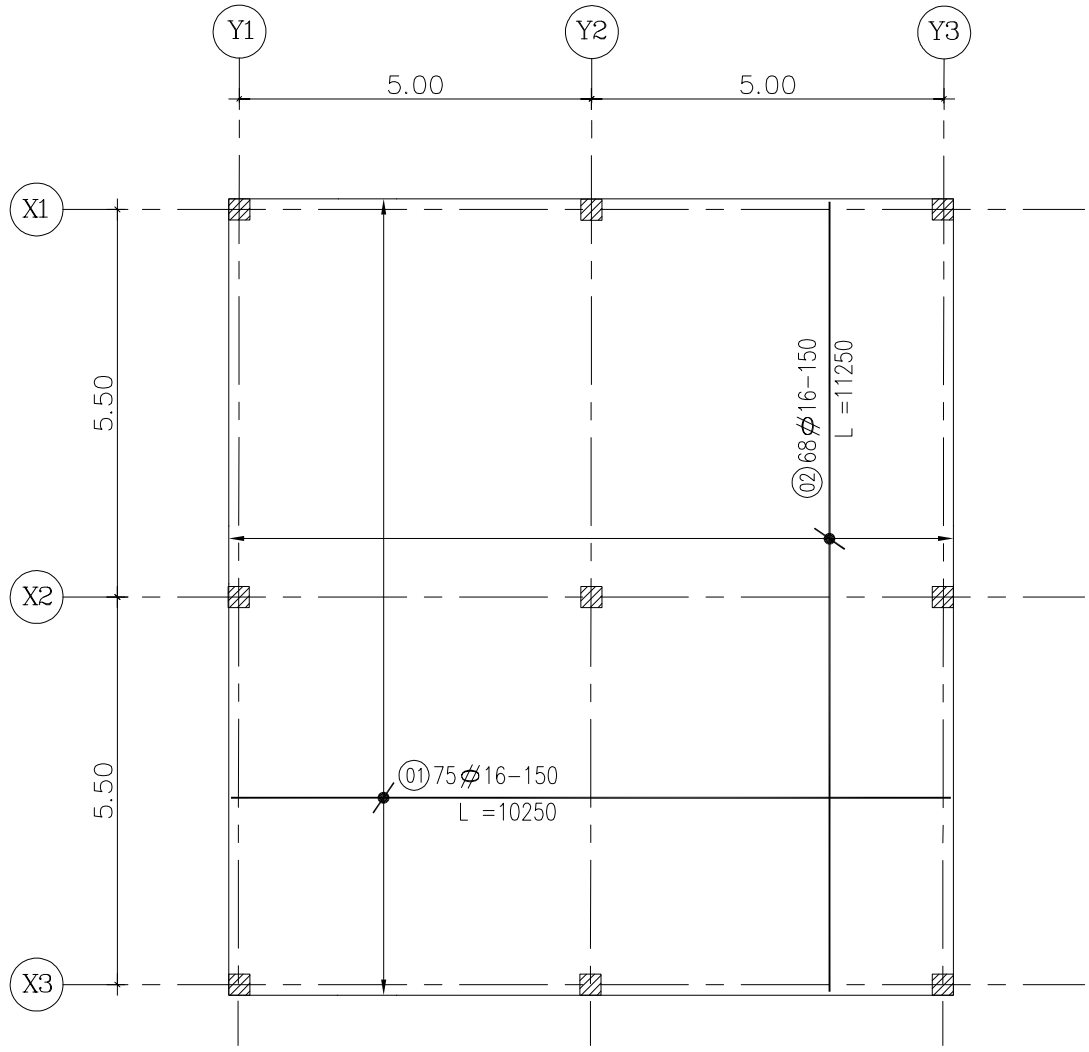
Diameter	Unit Wt (kg/m)
ϕ 16	1.578
ϕ 18	1.998
ϕ 20	2.466
ϕ 22	2.984
ϕ 25	3.853

* Concrete grade

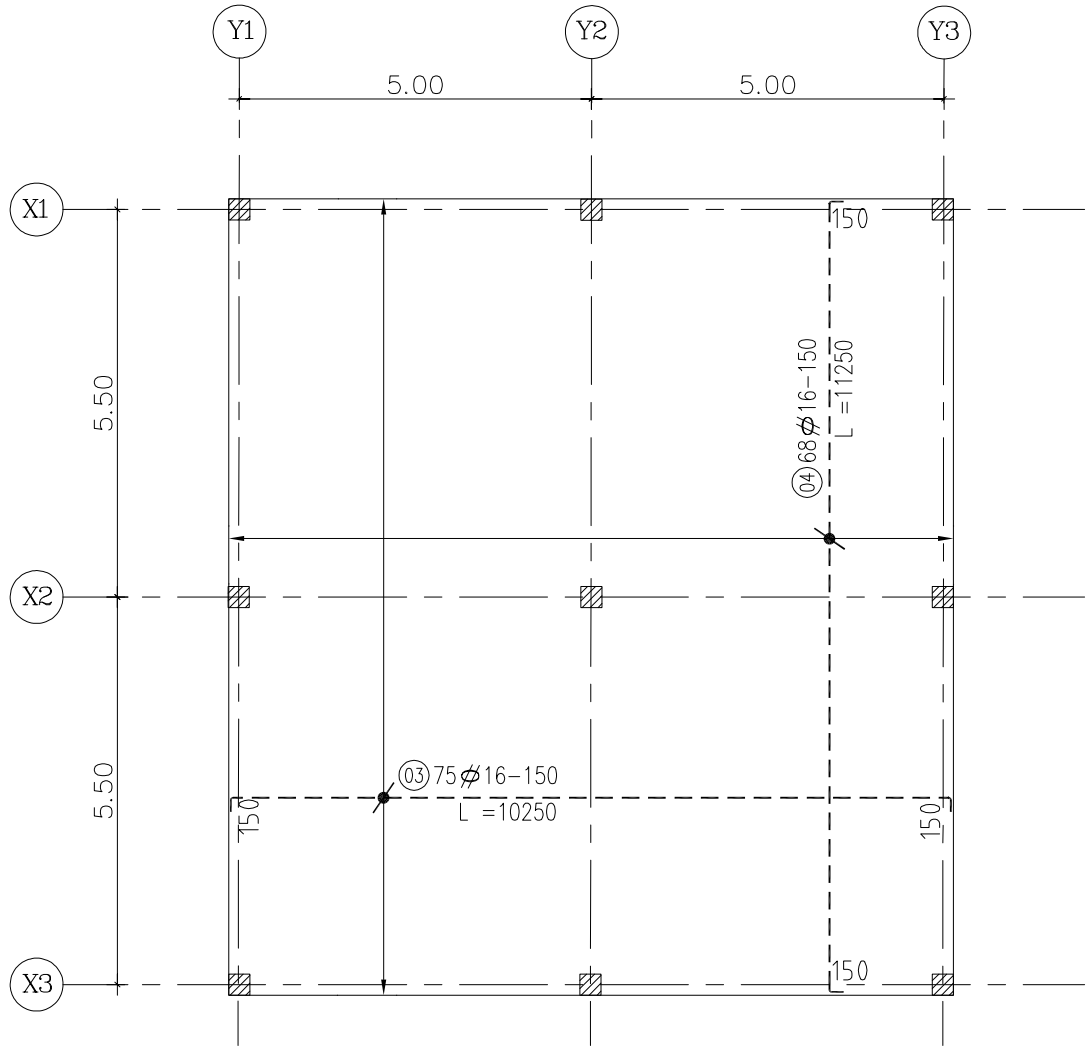
For Plain Concrete Fcu=20 N/mm^2

For Reinforcing Concrete Fcu=30 N/mm^2

LOCATION	CLEAR COVER
FOUNDATION	75 mm
BEAMS AND COLUMNS	30 mm
SLABS	25 mm

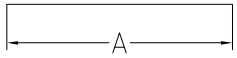
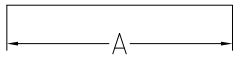
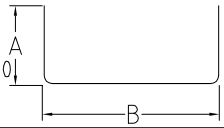
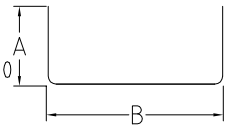


BOTTOM REINFORCEMENT DETAILS



Top REINFORCEMENT DETAILS

Bar Bending Schedule

Bar mark	Type and size	No. of memb.	No. of bars in each memb.	Total No.	Length	memb.	Shape & Dimension	Total Weight (Kg)
	mm				mm			(Kg)
01	⌀ 16	1	75	75	10250	Bott	A=10250 	1213
02	⌀ 16	1	68	68	11250	Bott	A=11250 	1207
03	⌀ 12	1	75	75	10550	Top	A=150 B=10250 	703
04	⌀ 12	1	68	68	11550	Top	A=150 B=11250 	698

Total Weight			
Diameter	**Weight (kg)**	**Diameter**	**Weight (kg)**
⌀ 12	1392	⌀ 18	.....
⌀ 16	2420		