

Course Title: Civil Engineering Drawing Lab-II

Covered Course: Civil Engineering Drawing-II Sessional

COURSE CODE: CE 0731-2100

CREDIT: 01

CIE MARKS: 30

SEE MARKS: 20

CLO 01 Create floor plan and septic tank plan.

CLO 02 Create layout and schedule of footing and column.

CLO 03 Develop grade beam details, floor beam details and section.

CLO 04 Develop slab reinforcement and stair section.



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Sl.	Course Contents	Teaching Learning Strategy	Hours	CLOs
1	Ground Floor Plan	Lecture, Discussion	5	CLO 1
2	First Floor Plan	Lecture, Discussion	5	CLO 1
3	Footing Layout	Lecture, Discussion	5	CLO 2
4	Footing Schedule	Lecture, Discussion	5	CLO 2
5	Column Layout	Lecture, Discussion	5	CLO 2
6	Column Schedule	Lecture, Discussion	5	CLO 2
7	Grade Beam Details	Lecture, Discussion	5	CLO 3
8	Floor Beam Details	Lecture, Discussion	5	CLO 3
9	Floor Beam Section	Lecture, Discussion	5	CLO 3
10	Slab Reinforcement	Lecture, Discussion	5	CLO 4
11	Stair Section	Lecture, Discussion	5	CLO 4
12-13	Septic Tank Plan	Lecture, Discussion	10	CLO 1

Week	Topic	Teaching Learning Strategy	Assessment Strategy	CLOs	Page
1	Ground Floor Plan	Lecture, Discussion	Lab report, Quiz	CLO 1	5-6
2	First Floor Plan	Lecture, Discussion	Lab report, Quiz	CLO 1	7-8
3	Footing Layout	Lecture, Discussion	Lab report, Quiz	CLO 2	9-10
4	Footing Schedule	Lecture, Discussion	Lab report, Quiz	CLO 2	11-12
5	Column Layout	Lecture, Discussion	Lab report, Quiz	CLO 2	13-14
6	Column Schedule	Lecture, Discussion	Lab report, Quiz	CLO 2	15-16
7	Grade Beam Details	Lecture, Discussion	Lab report, Quiz	CLO 3	17-18
8	Floor Beam Details	Lecture, Discussion	Lab report, Quiz	CLO 3	19-20
9	Floor Beam Section	Lecture, Discussion	Lab report, Quiz	CLO 3	21-22
10	Slab Reinforcement	Lecture, Discussion	Lab report, Quiz	CLO 4	23-24
11	Stair Section	Lecture, Discussion	Lab report, Quiz	CLO 4	25-26
12-13	Septic Tank Plan	Lecture, Discussion	Lab report, Quiz	CLO 1	27-28
14	Lab Assessment	Demonstration	Lab report, Quiz, Viva	CLO 1-4	N/A

Assessment Strategy

CIE- Continuous Internal Evaluation (60 Marks) (Should be converted in 30 marks)

Bloom's Category Marks (out of 60)	Lab Final (30)	Lab Report (10)	Continuous lab performance (10)	Presentation & Viva (10)	External Participation in Curricular/Co-Curricular Activities (10)
Remember	05			02	Attendance 10
Understand	05	05	02	03	
Apply	05		02		
Analyze	05		02		
Evaluate	05	05	02		
Create	05		02	05	

SEE- Semester End Examination (40 Marks) (Should be converted in 20 marks)

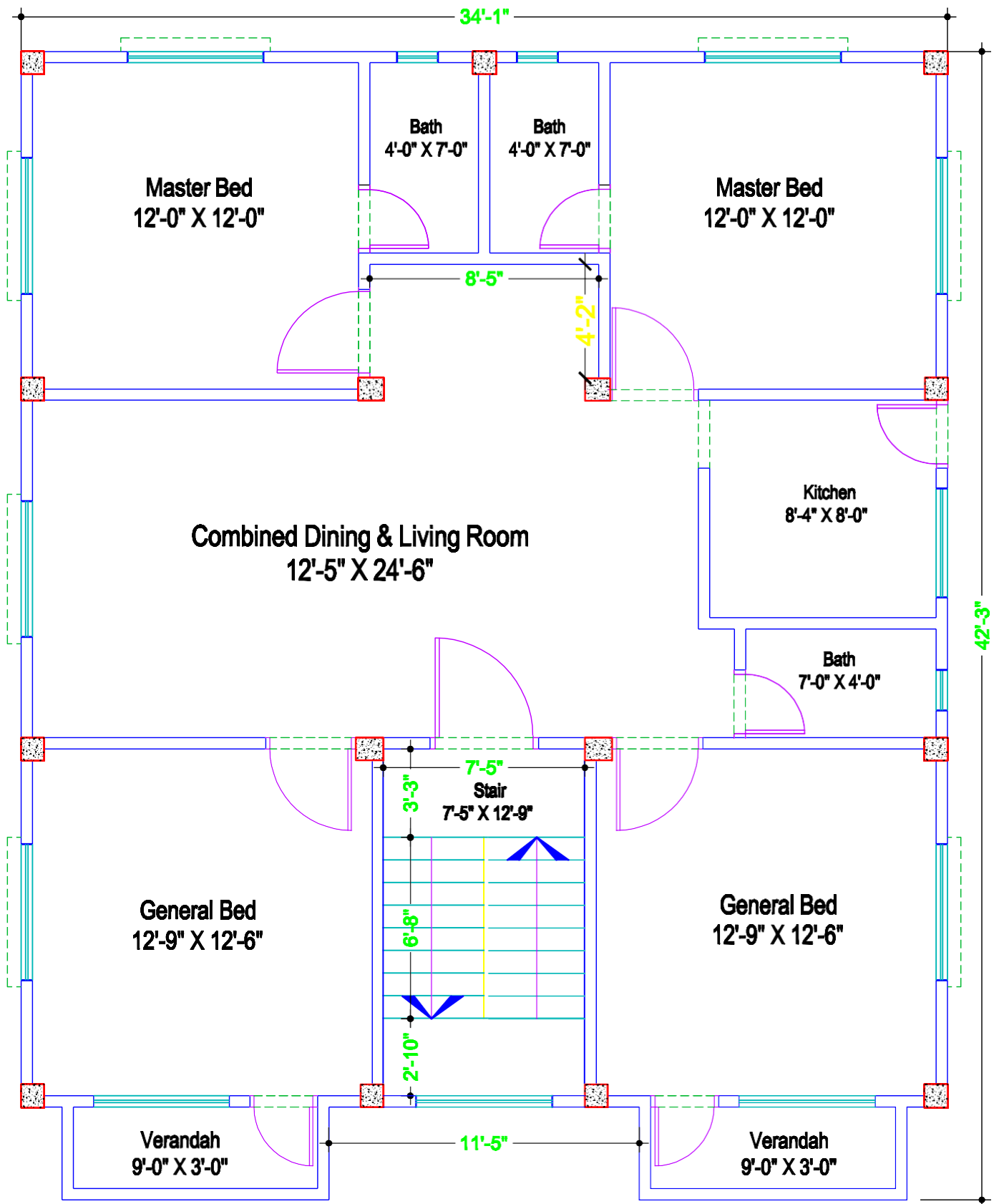
Bloom's Category	Tests
Remember	05
Understand	05
Apply	10
Analyze	05
Evaluate	05
Create	10



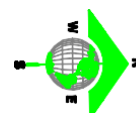
Ground Floor Plan (Week 1)



First Floor Plan (Week 2)

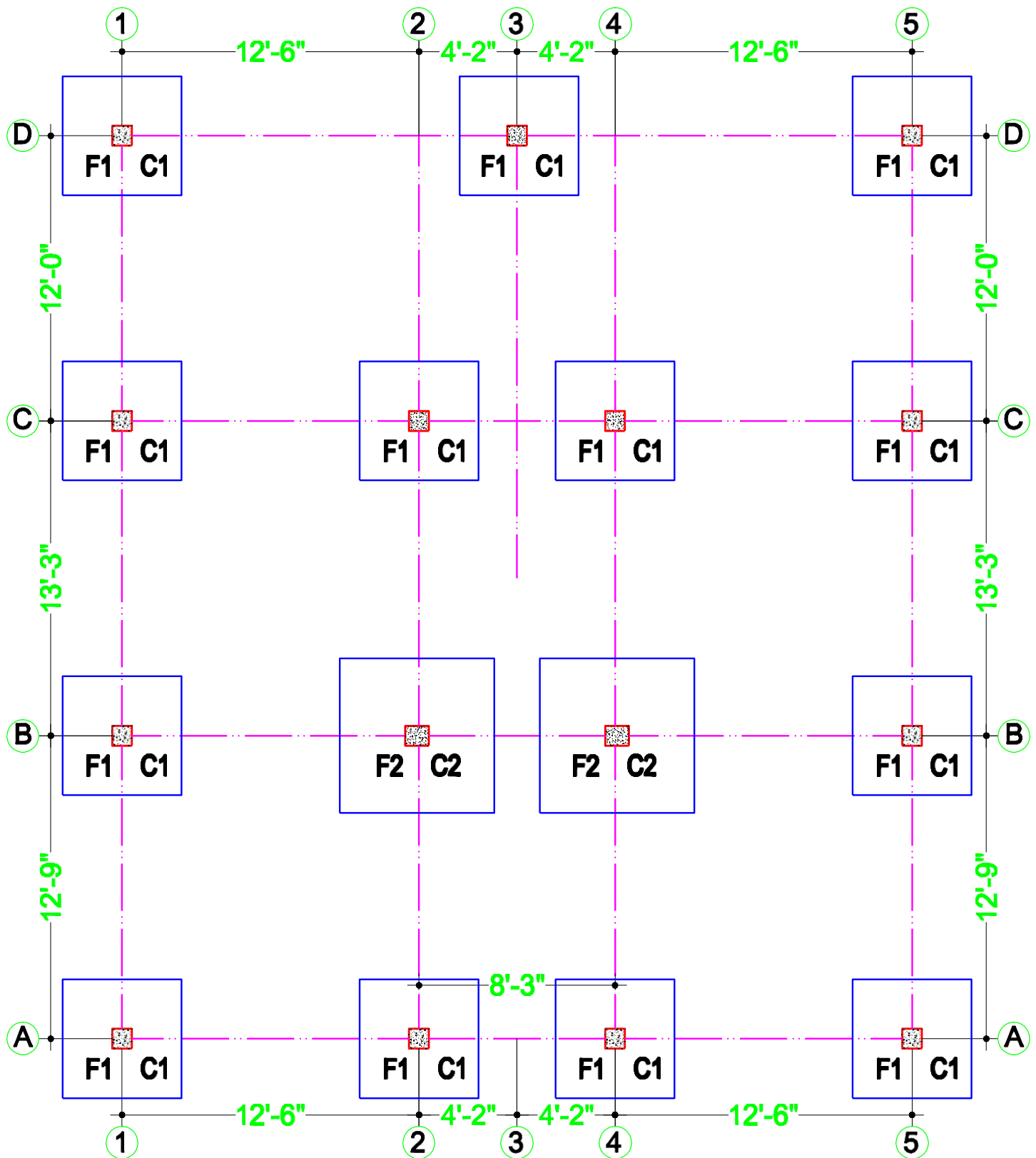


FIRST FLOOR PLAN





Footing Layout (Week 3)



FOOTING LAYOUT

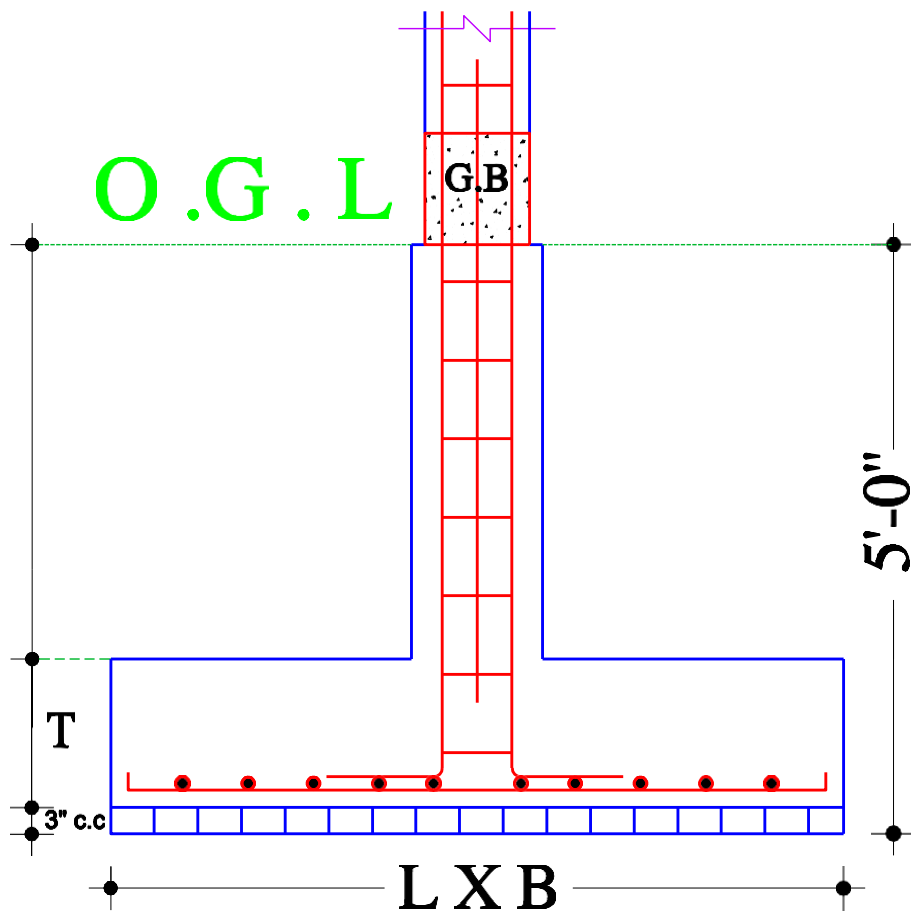




Footing Schedule (Week 4)

Footing Schedule:

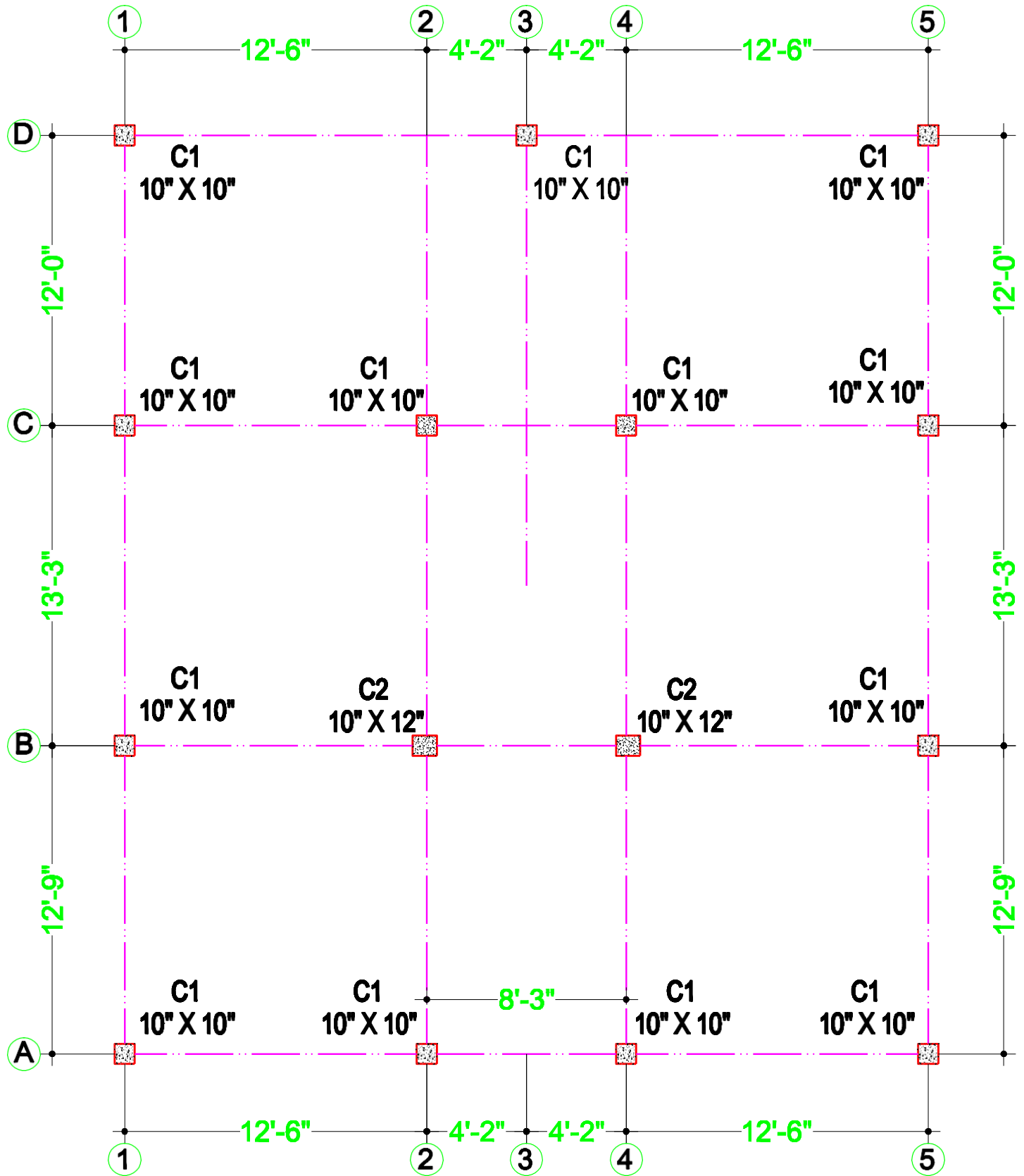
Type of Footing	Size of Base	Main Bar	T
F1	5'- 0" X 5'- 0"	12 mm @ 4" c/c Both Way	12"
F2	6'- 6" X 6'- 6"	12 mm @ 4" c/c Both Way	14"



X - Section of F1, F2.



Column Layout (Week 5)



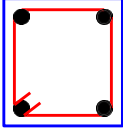
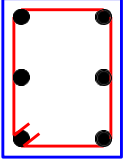
COLUMN LAYOUT

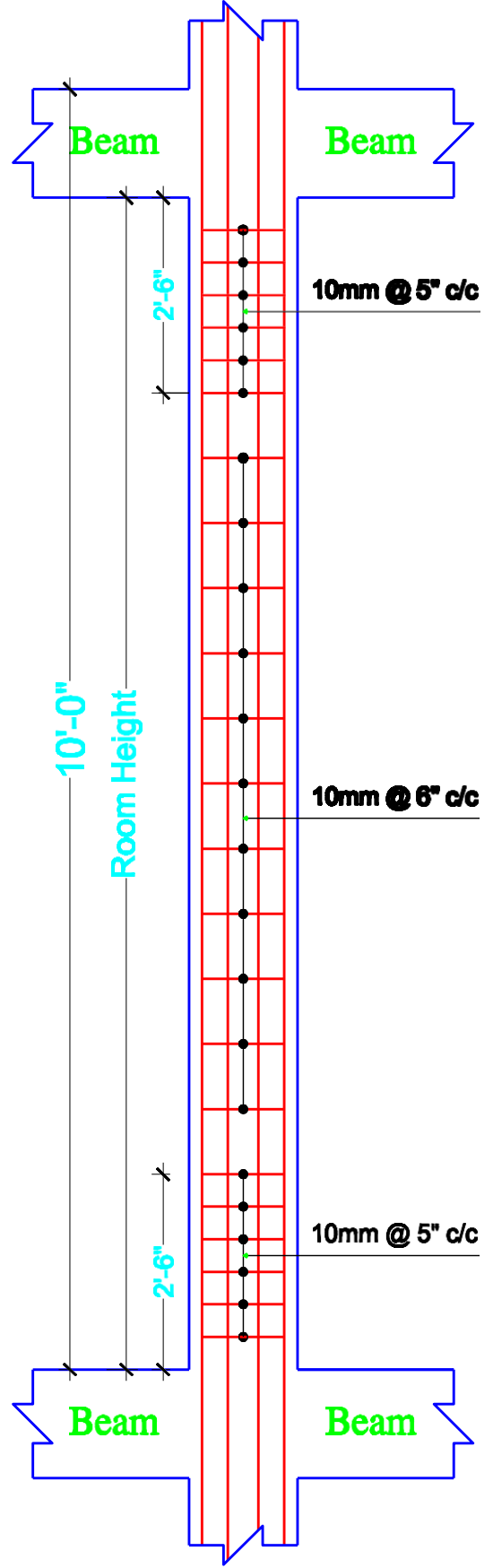




Column Schedule (Week 6)

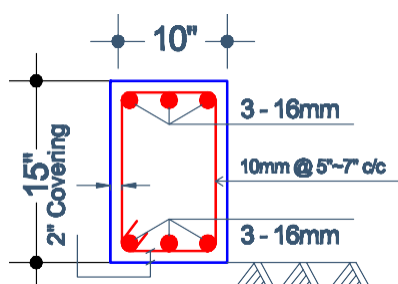
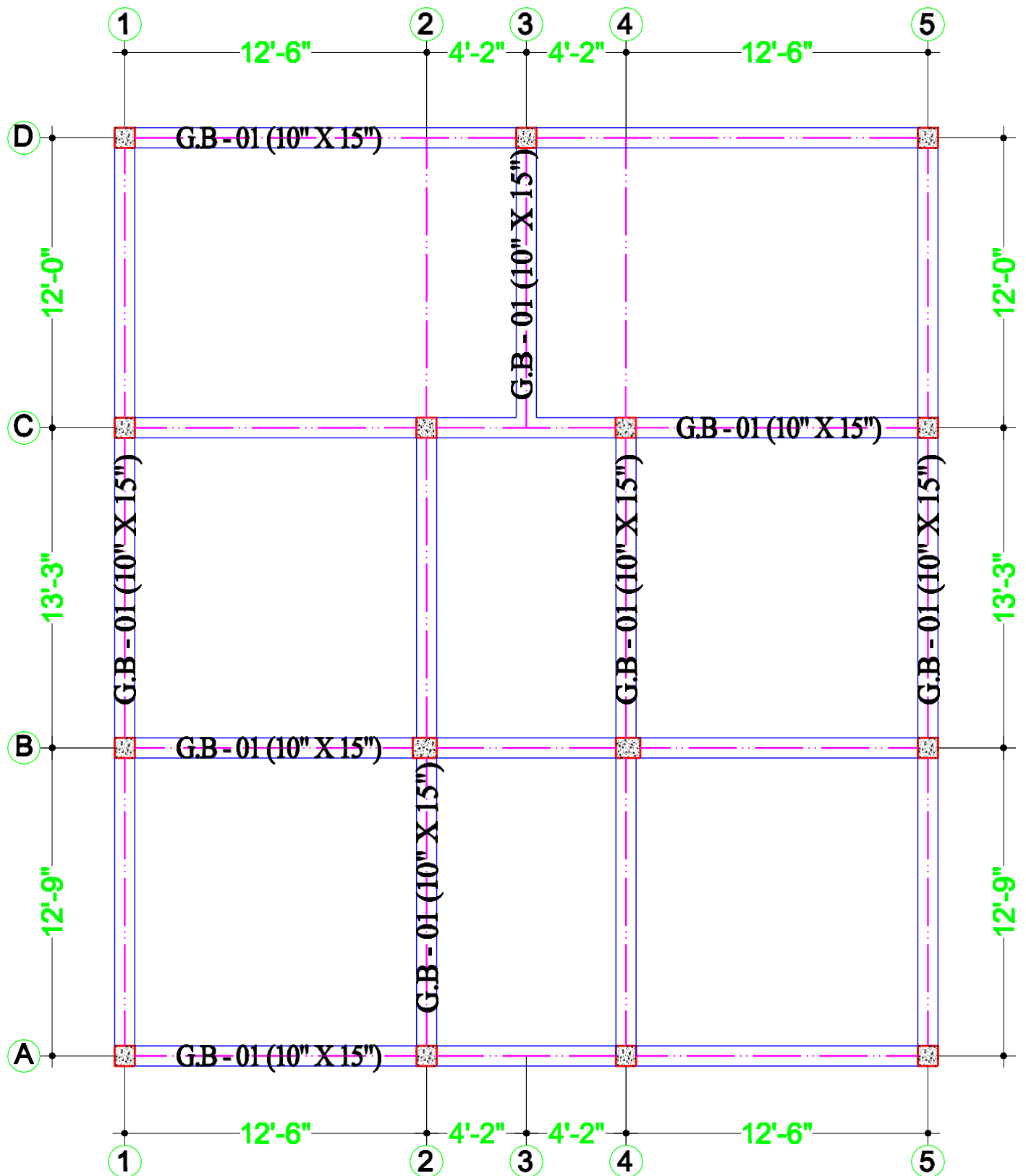
Column Schedule:

TYPE OF COLUMN	SIZE OF COLUMN		Gr. to 1st. Floor	Ring
	BELOW G.L	ABOVE G.L		
C1	13" X 13"	10" X 10"	4 - 16mm	
C2	13" X 15"	10" X 12"	6 - 16mm	





Grade Beam Details (Week 7)



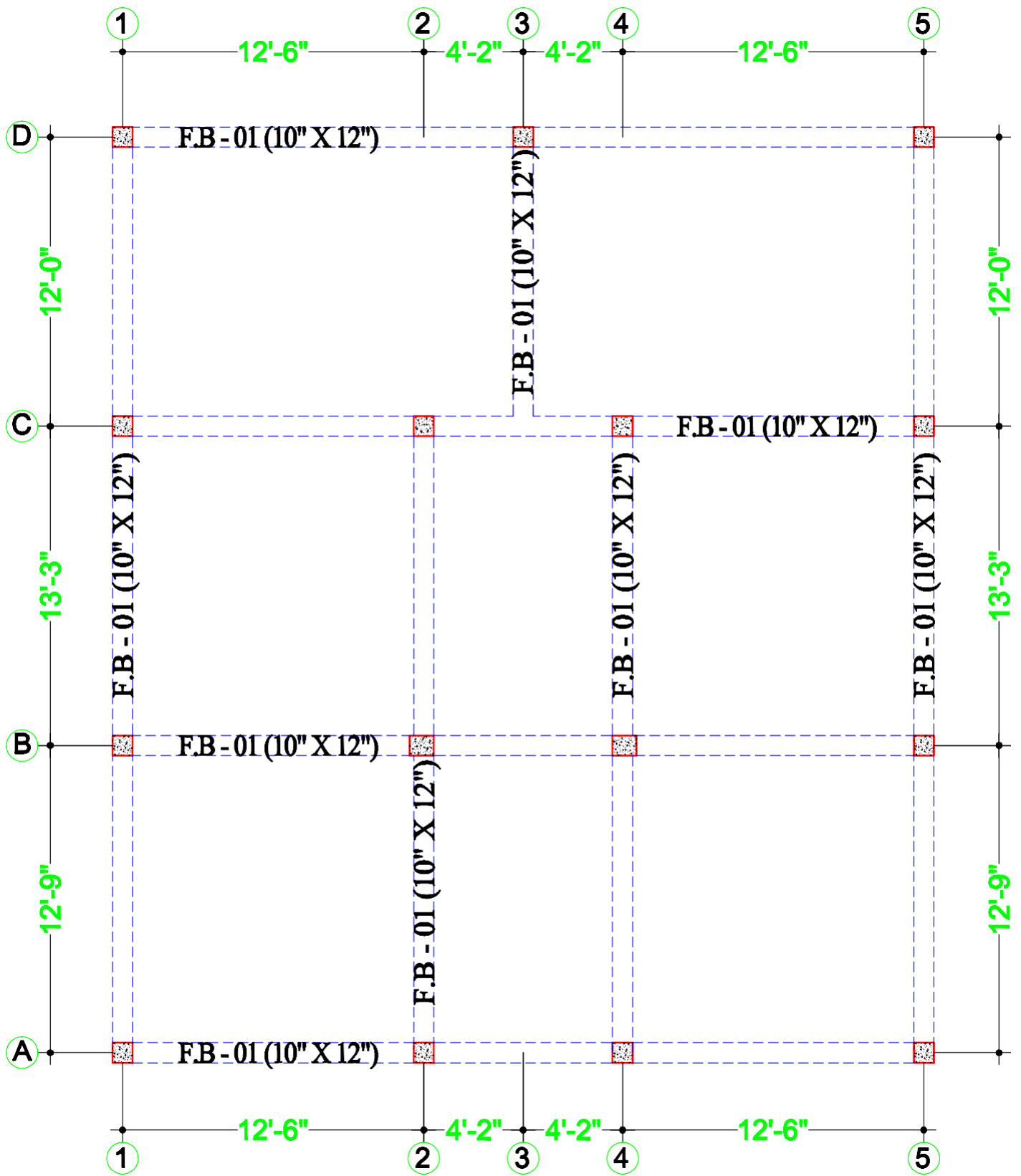
GRADE BEAM DETAILS



X Sec. of G.B - 01



Floor Beam Details (Week 8)

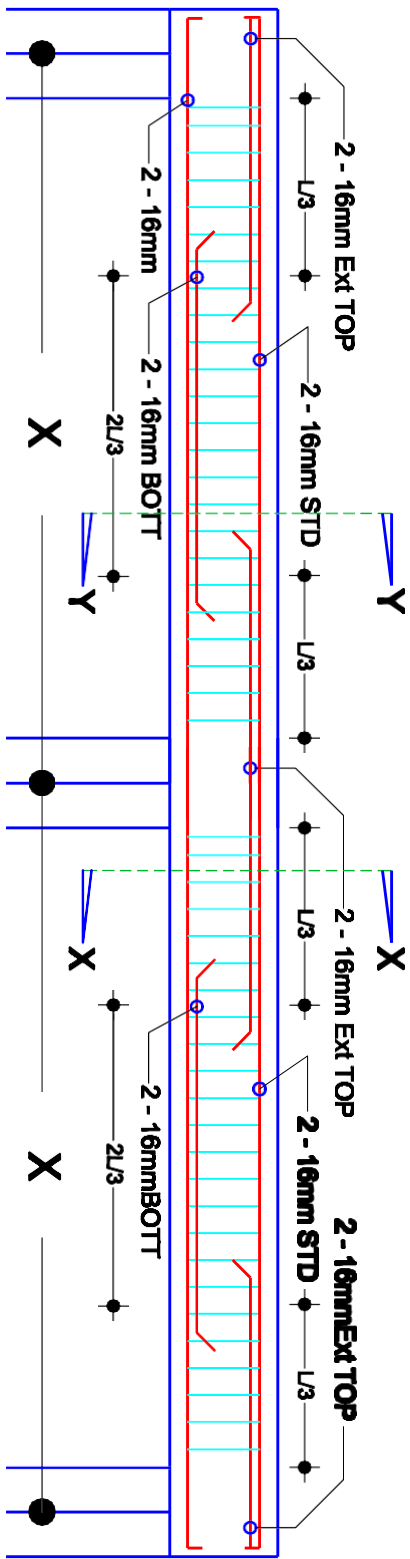


FLOOR BEAM DETAILS

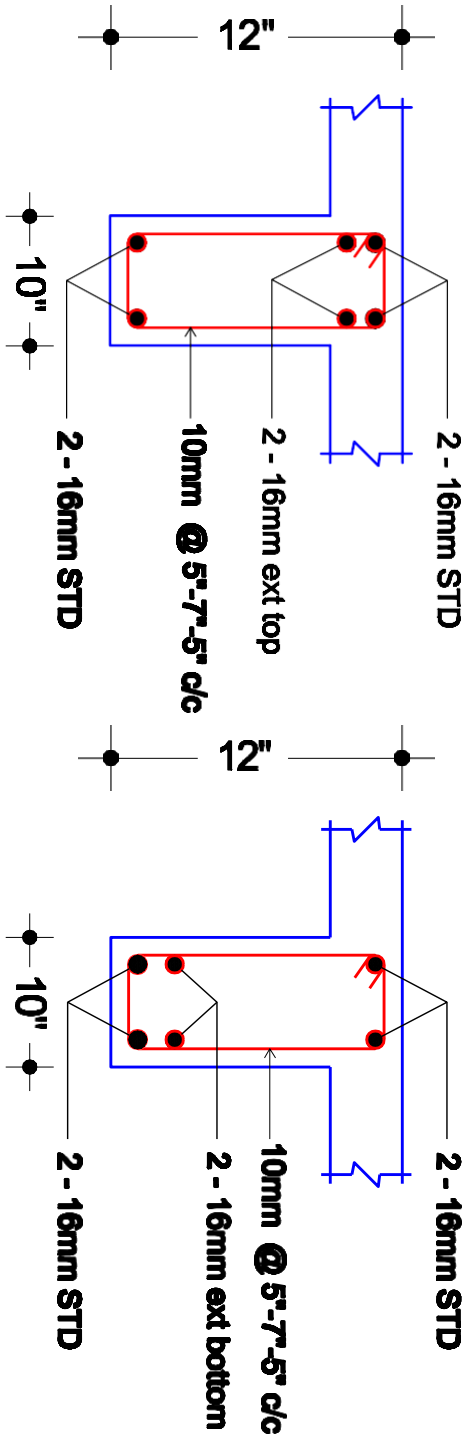




Floor Beam Section (Week 9)



Long Sec. of F.B - 01 (10" X 12")



X - X Section F.B - 01.

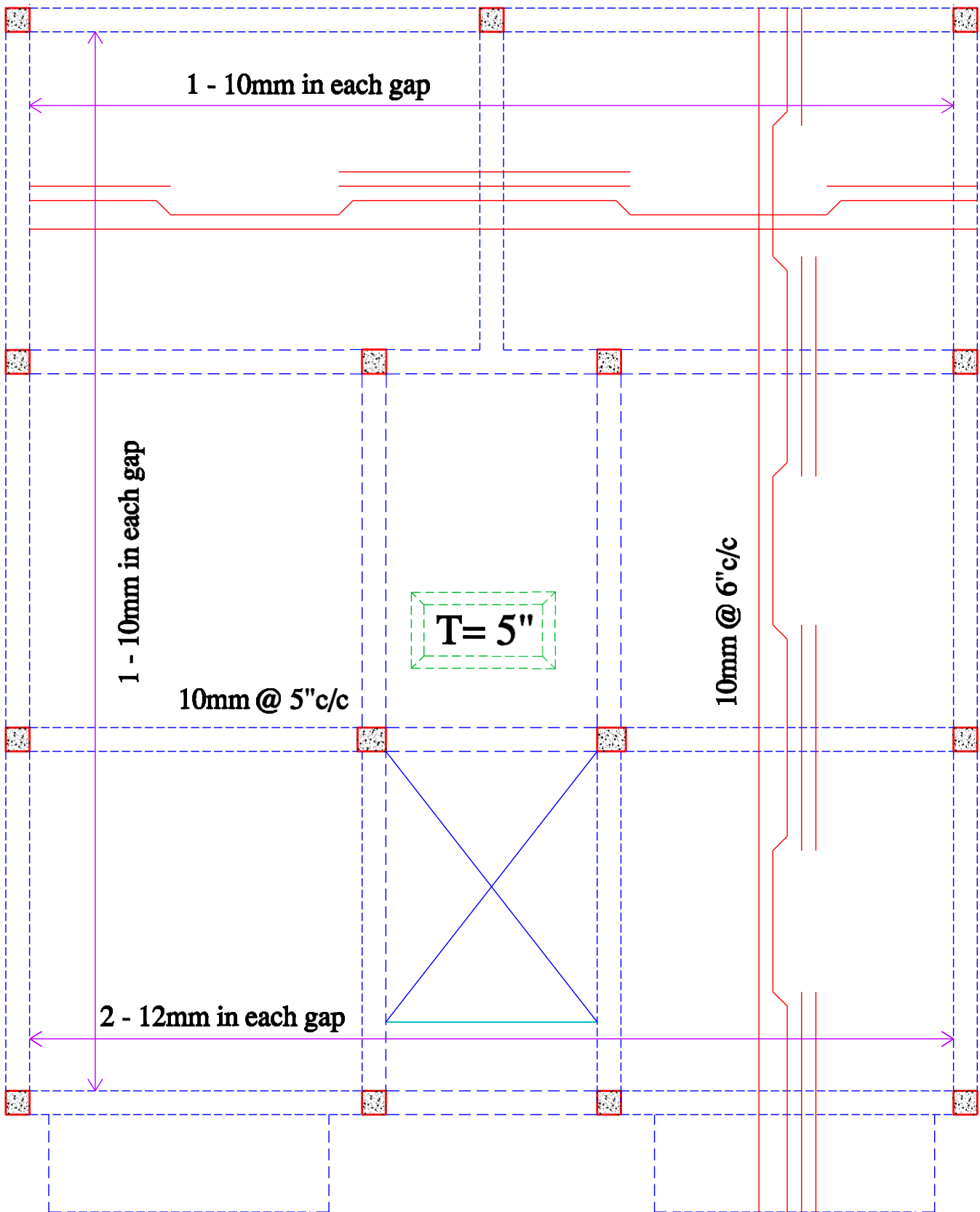
Y - Y Section F.B - 01.

FLOOR BEAM SECTION DETAILS

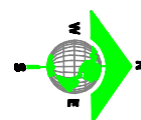




Slab Reinforcement (Week 10)

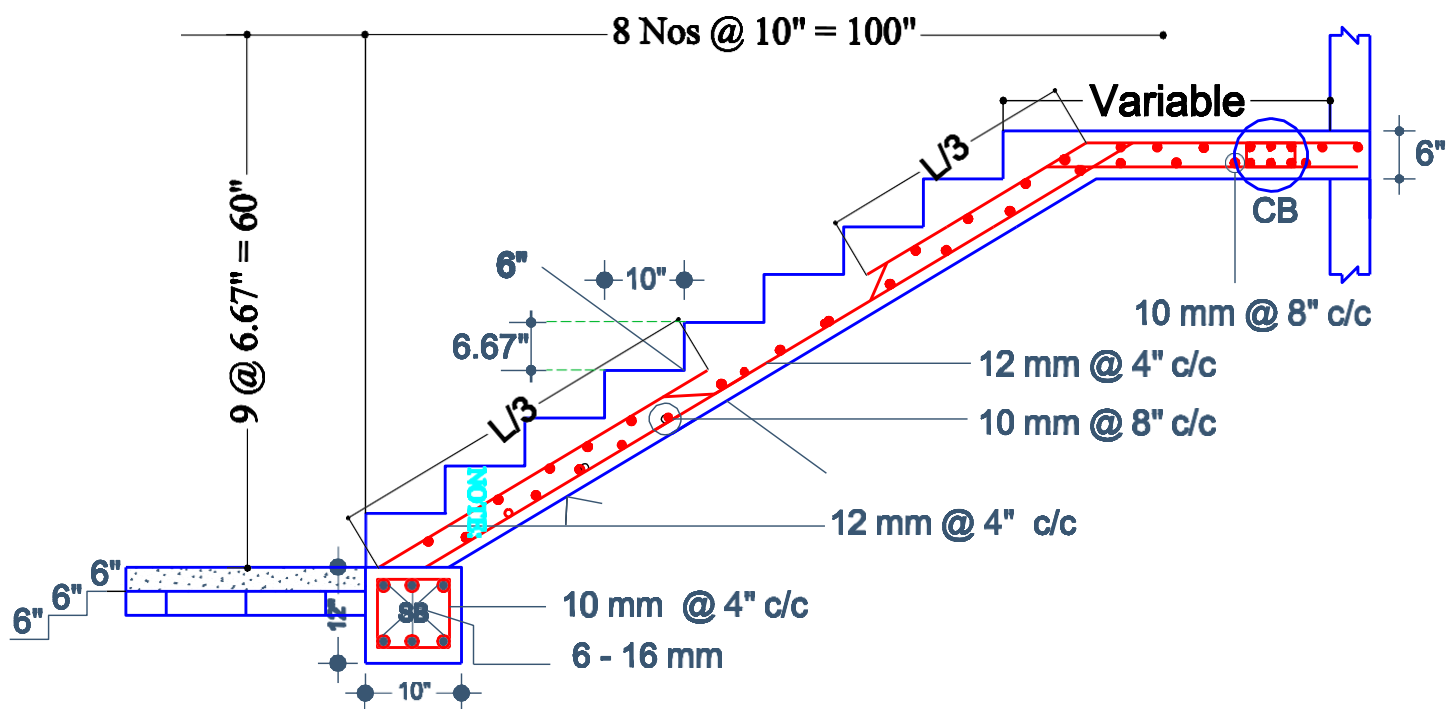
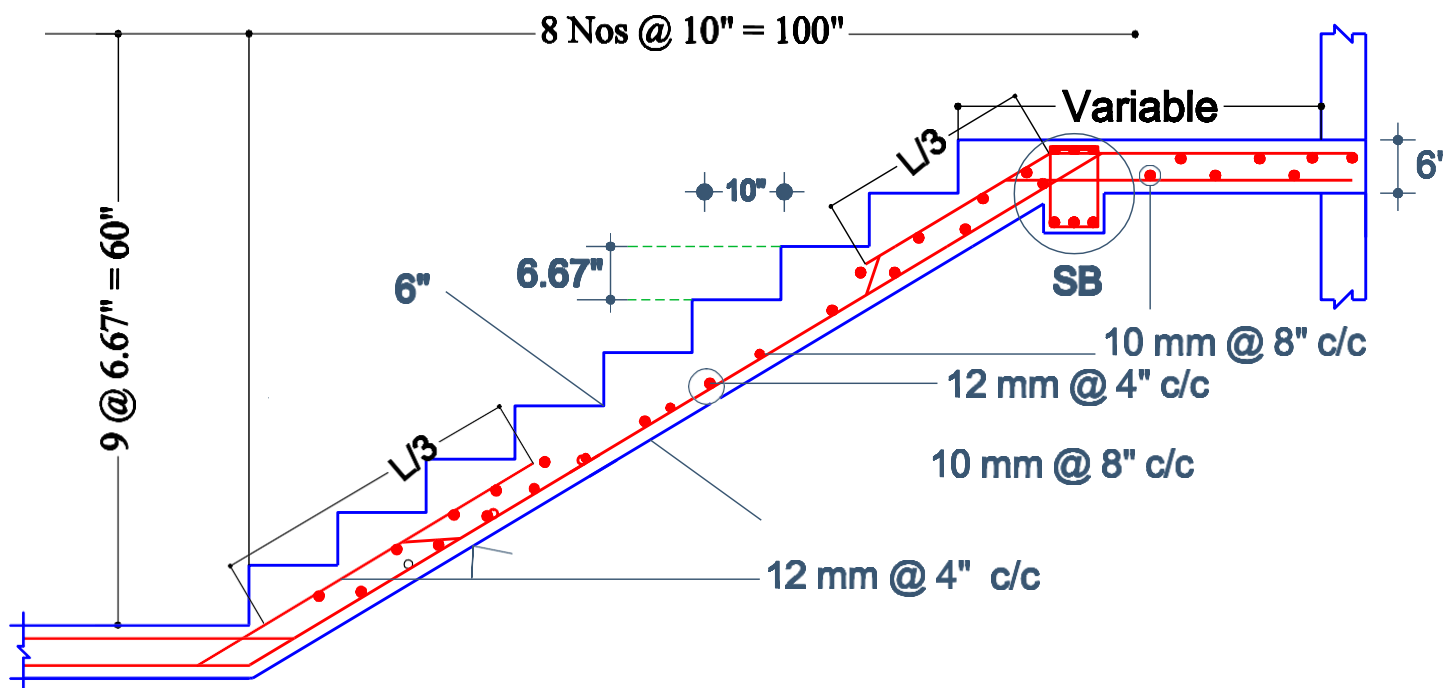


SLAB REINFORCEMENT





Stair Section (Week 11)

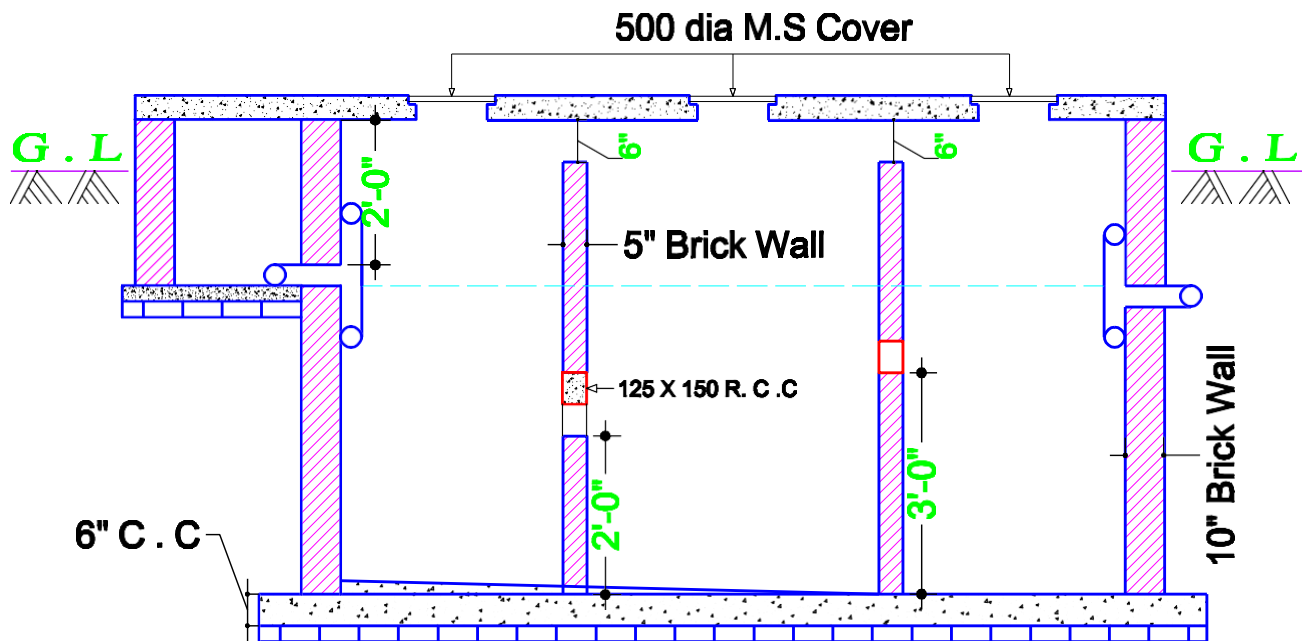
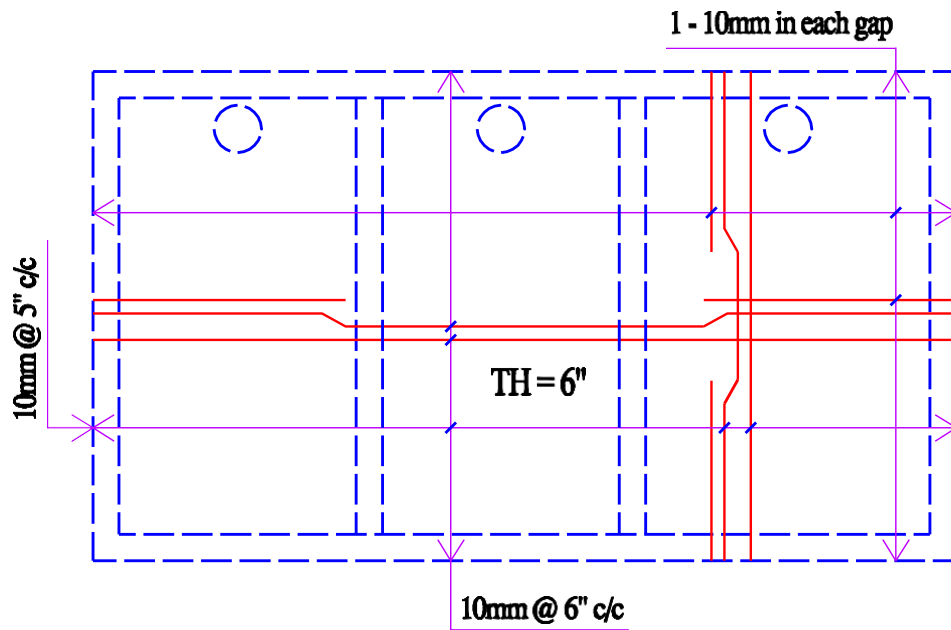


STAIR SECTION DETAILS

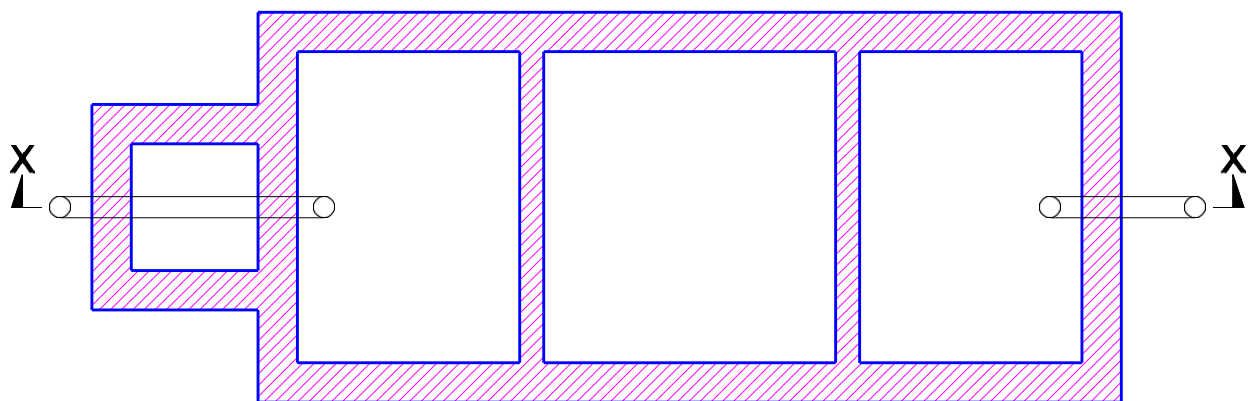




Septic Tank Plan (Week 12)



Section on x - x



Plan of Septic Tank