

STRUCTURAL DRAWING

_____ PROJECT
PROPOSED 2-STORIED RESIDENTIAL
BUILDING, AT

_____ CLIENT

GENERAL NOTES:

1. CONCRETE STRENGTH SHALL BE 2800 PSI (1:1½:3) UNLESS OTHERWISE MENTIONED.
 - 1a. PROPOSED 2-STORIED RESIDENTIAL BUILDING, AT NARAIL.
2. ALL STEEL SHALL BE DEFORMED STEEL OF YIELD STRENGTH, $f_y = 60,000$ PSI.
3. 100% COARSE SAND (F.M = 2.5) SHALL BE USED AS FINE AGGREGATE.
4. CLEAR COVER TO STEEL REINF. SHALL BE USED AS FOLLOWS;
 - a) 3/4" FOR SLAB NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND
 - b) 1½" FOR SLAB AND R.C.C. WALL EXPOSED TO EARTH OR WEATHER.
5. 3/4" DOWN WELL GRADED PICKED CHIPS SHALL BE USED AS COARSE AGGREGATE
6. CURING SHALL BE DONE FOR FOUR WEEKS.
7. LAP LENGTH SHALL BE AS FOLLOWS;-

Ø20 ROD	Ø16 ROD	Ø12 & Ø10 ROD
42"	30"	15"

8. \curvearrowright THIS SYMBOL MEANS TERMINATION OF TOP BARS AND NOT HOOKED.
SIMILAR IS THE CASE FOR \curvearrowleft BOTTOM BAR.
9. USE C.C. BLOCK FOR KEEPING BOTTOM BARS AND STEEL CHAIRS FOR KEEPING TOP BARS HAVING LEGS ON THE BOTTOM BARS OF FOUNDATION WHERE NECESSARY.
10. NOT MORE THAN 50% BAR SHALL BE LAPPED IN ANY FACE OF A CONCRETE MEMBER.

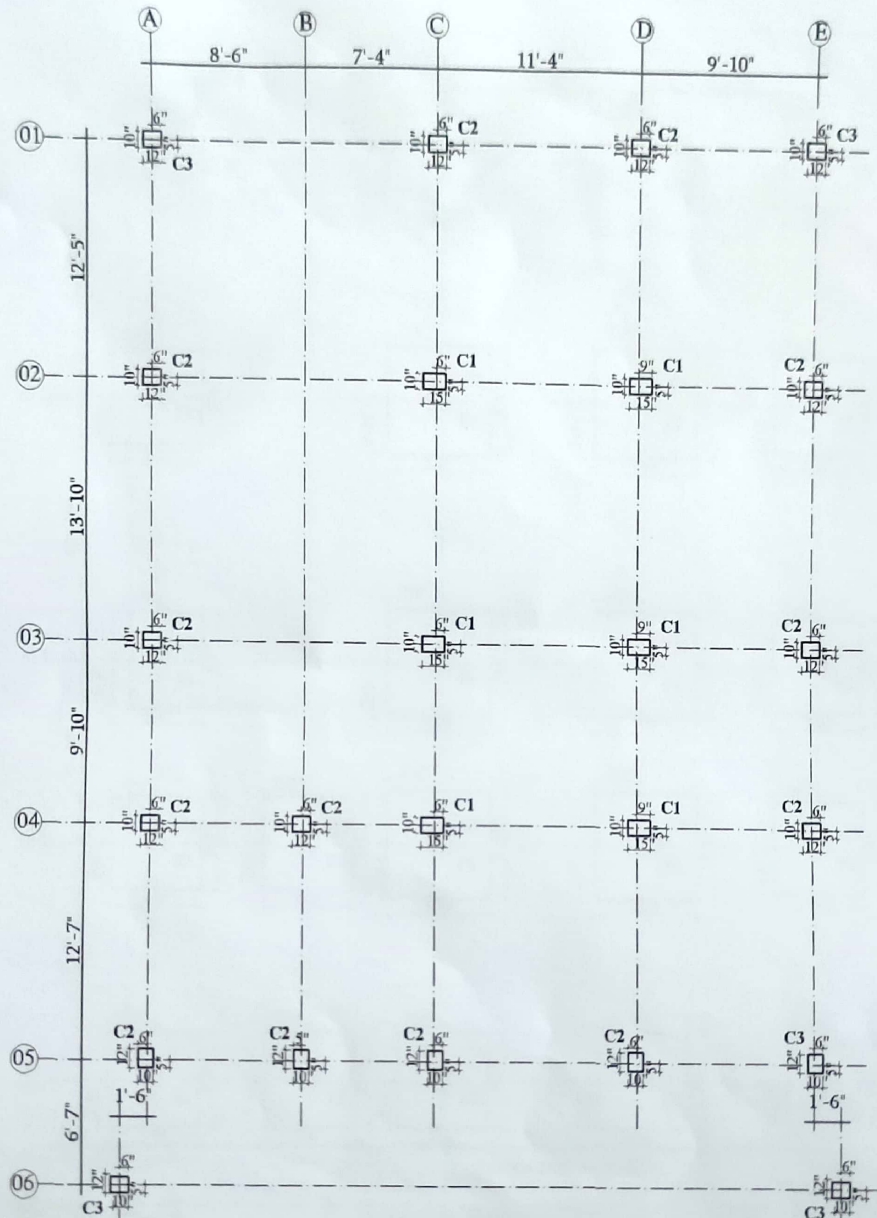
DRAWING TITLE :
GENERAL NOTE
SHEET NO: S-01
DATE: 29.11.2021

DRAWN BY:
UTTAM MAITRA

STRUCTURAL DESIGN BY:

CLIENT :

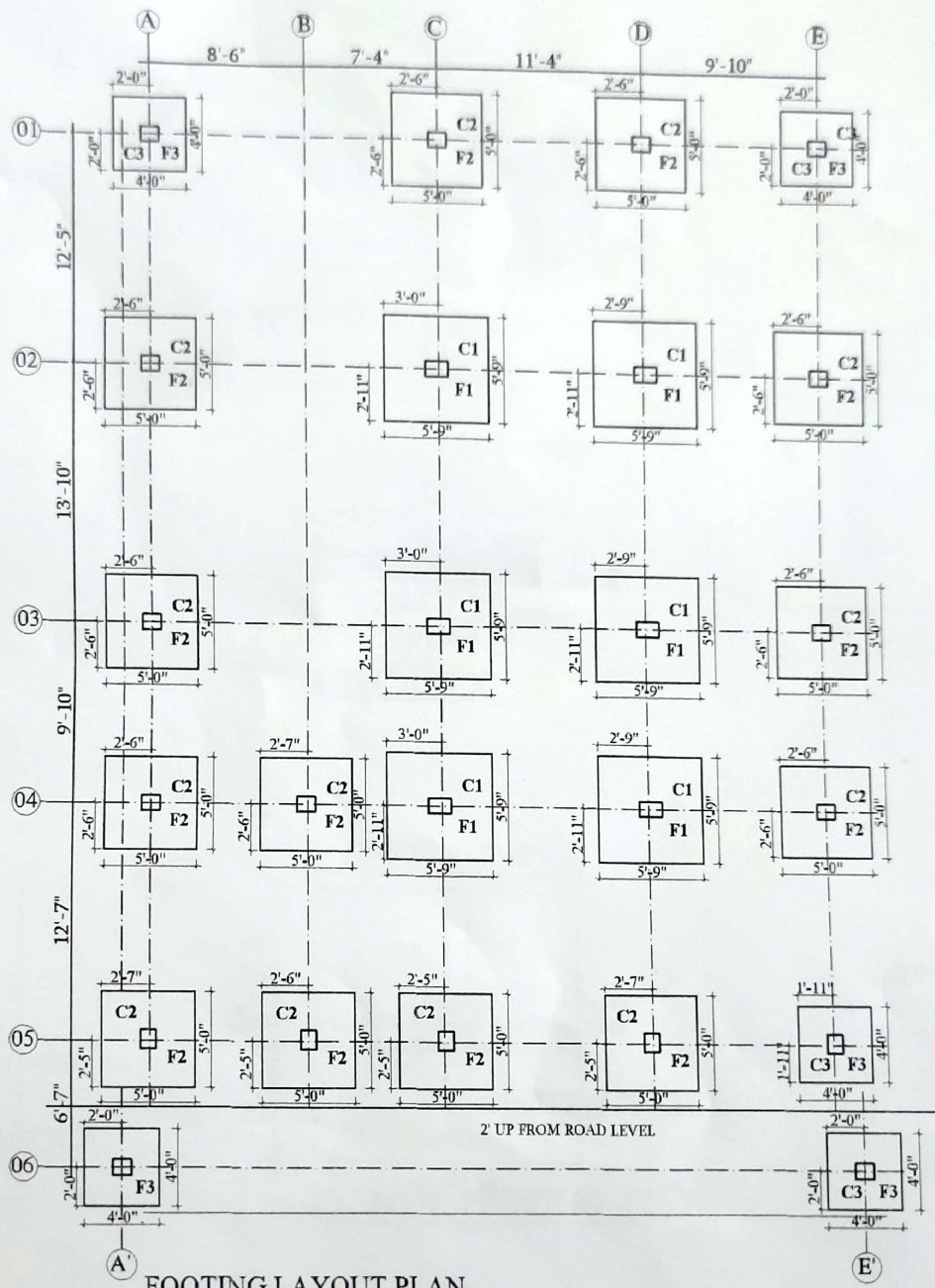
PROJECT:
PROPOSED 2-STORIED COMMERCIAL
BUILDING, AT



A
COLUMN LAYOUT PLAN
E

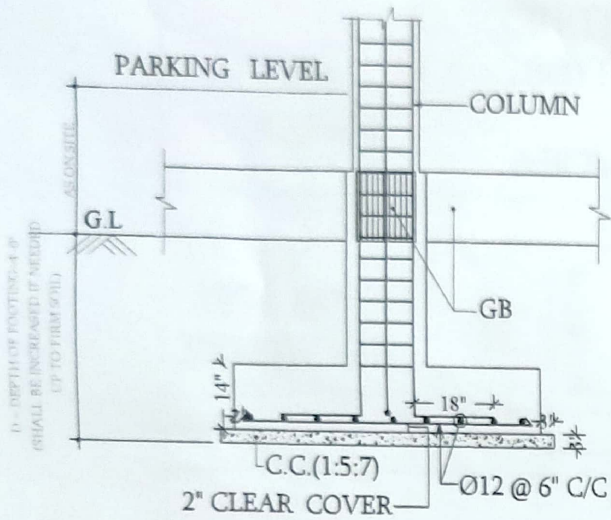
12' Wide Road

PROJECT: PROPOSED 2-STORIED COMMERCIAL BUILDING, AT	CLIENT:	STRUCTURAL DESIGN BY:	DRAWN BY: UTTAM MAITRA
DRAWING TITLE COLUMN LAYOUT PLAN			SHEET NO: S-42
DATE: 29/11/2021			

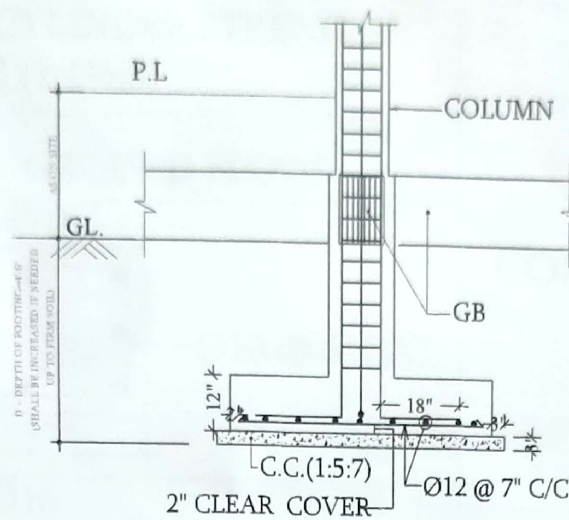


FOOTING LAYOUT PLAN

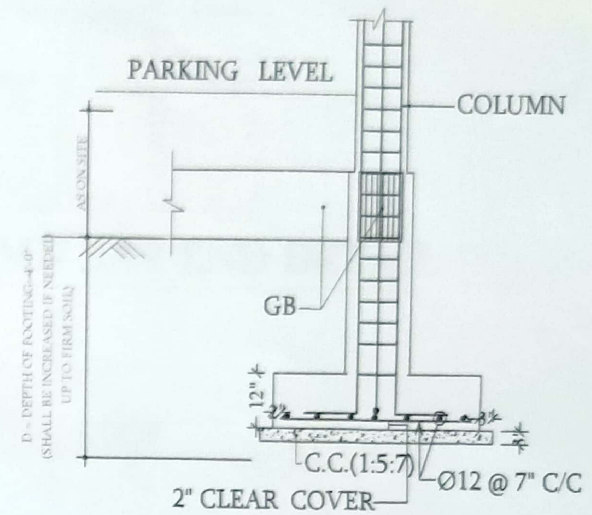
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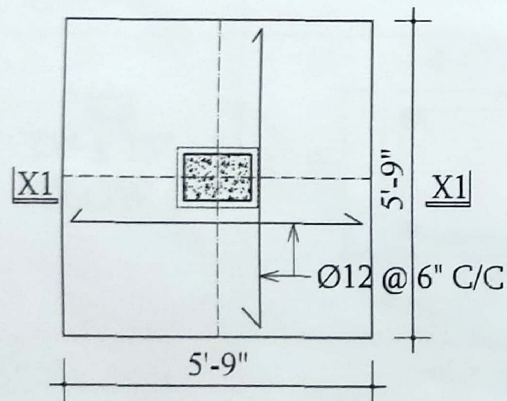
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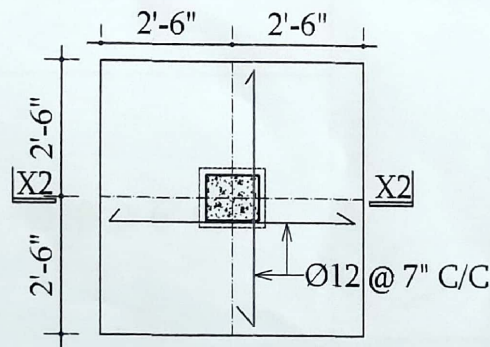
SEC. ON X2-X2



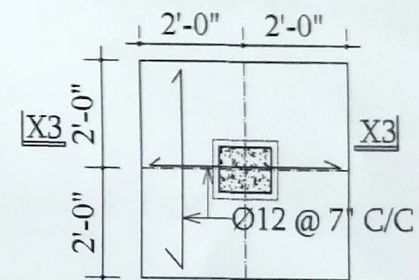
SEC. ON X3-X3



PLAN OF FOOTING -F1



PLAN OF FOOTING -F2



PLAN OF FOOTING -F3

DRAWING TITLE :
SECTION OF FOOTING
SHEET NO: S-04
DATE: 29.11.2021

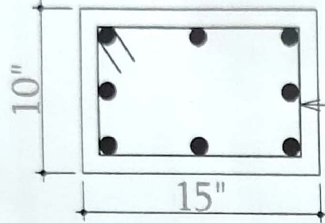
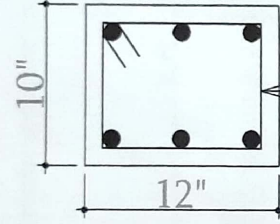
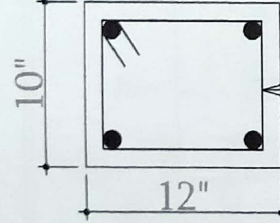
DRAWN BY:
UTTAM MAURA

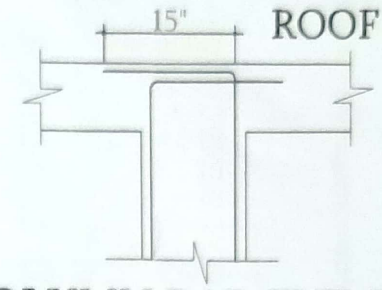
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CLIENT:

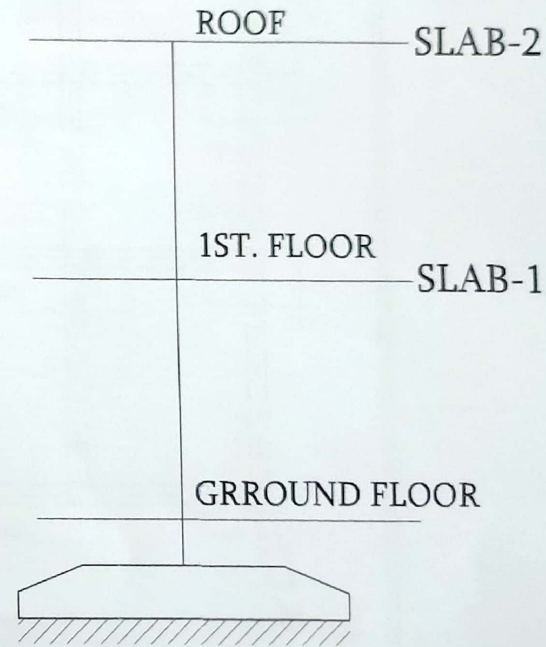
PROJECT:
PROPOSED 2-STORIED COMMERCIAL
BUILDING, AT

COLUMN REINFORCEMENT SCHEDULE:

NO. OF COLUMN	CONCRETE CYLINDER STRENGTH, $f'c = 2800 \text{ PSI.}(1:1\frac{1}{2}:3)$
	ABOVE GROUND FLOOR
C1 13" x 18" BELOW G.L	<p>8-Ø16</p>  <p>Ø10 @ 6" C/C</p>
C2 13" x 15" BELOW G.L	<p>6-Ø16</p>  <p>Ø10 @ 6" C/C</p>
C3 13" x 15" BELOW G.L	<p>4-Ø16</p>  <p>Ø10 @ 6" C/C</p>



COLUMN BAR END DETAIL



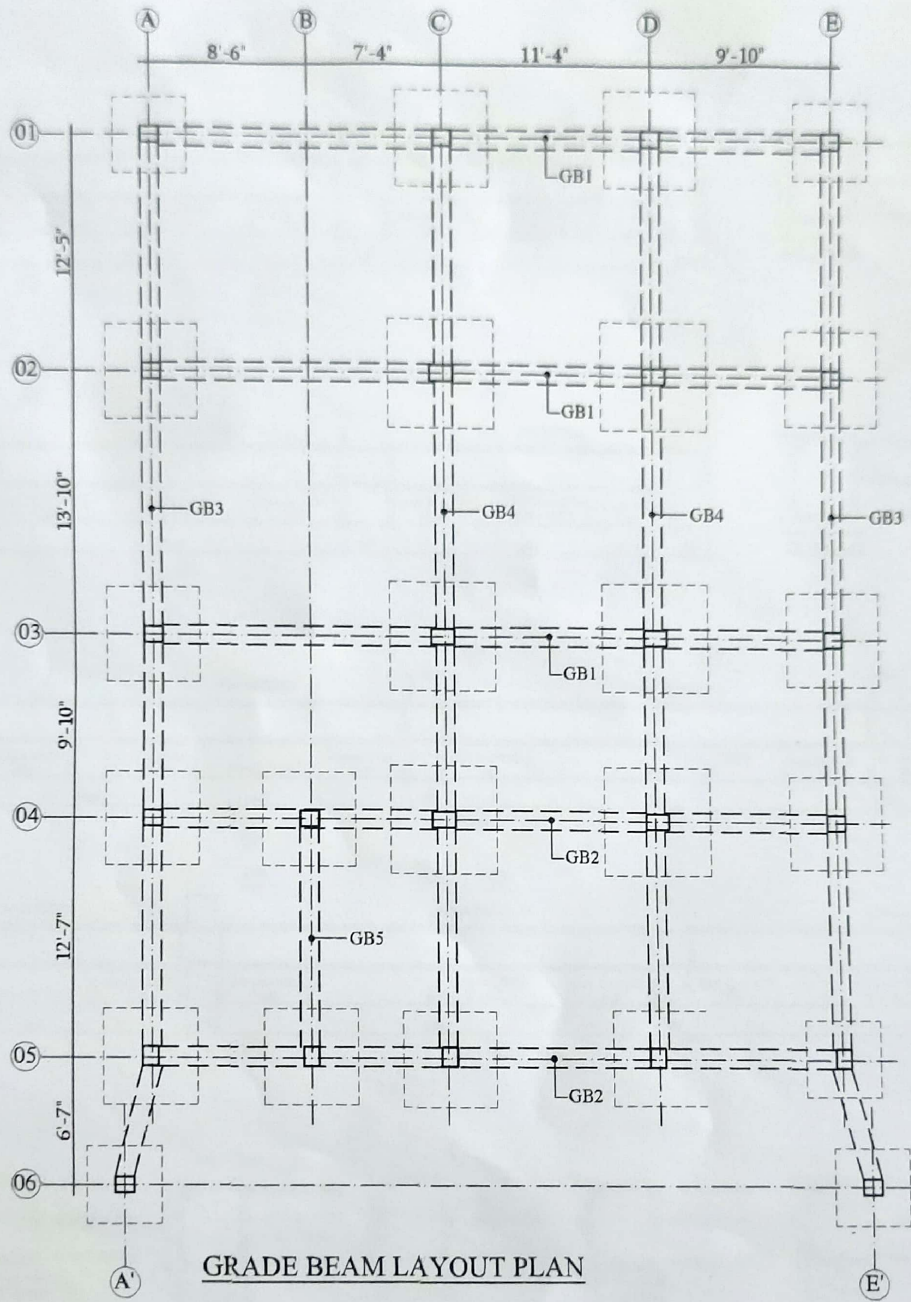
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COLUMN SCHEDULE
SHEET NO: 3-05
DATE: 29.11.2021

DRAWN BY:
UTTAM MAITRA

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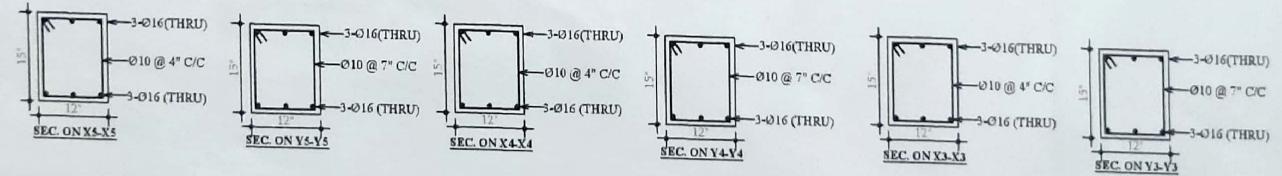
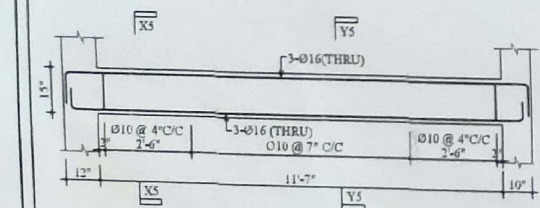
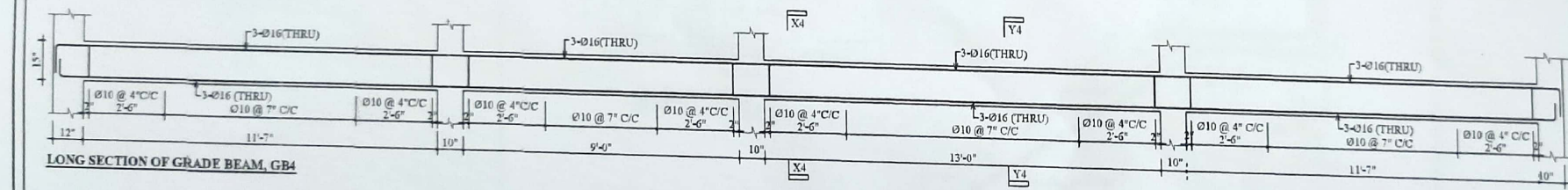
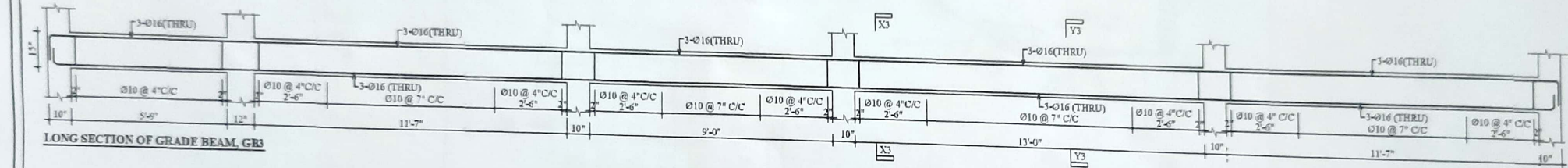
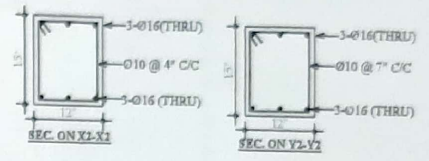
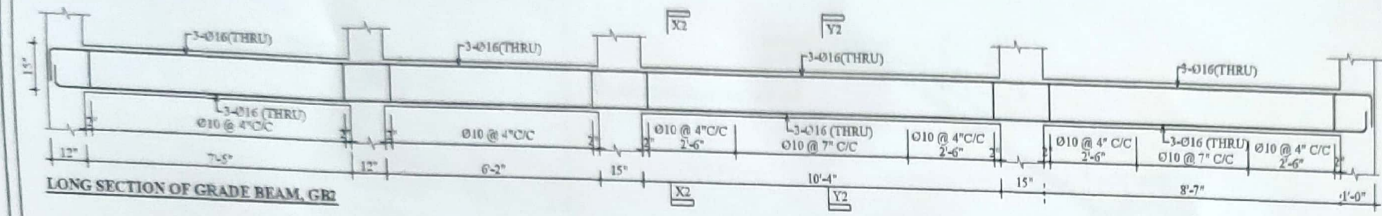
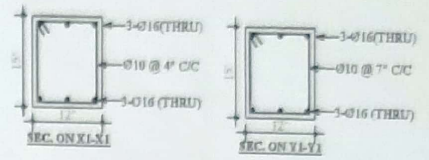
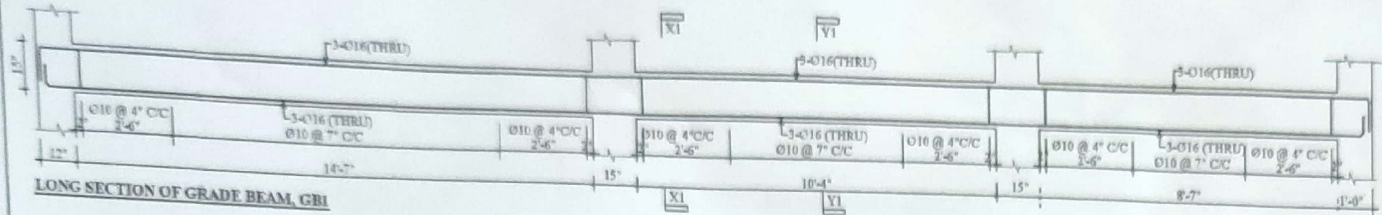
CLIENT:

PROJECT:
PROPOSED 2-STORIED COMMERCIAL
BUILDING, AT



GRADE BEAM LAYOUT PLAN

PROJECT: PROPOSED 2-STORIED COMMERCIAL BUILDING, AT	CLIENT :	STRUCTURAL DESIGN BY:	DRAWN BY: UTTAM MAITRA	DRAWING TITLE : GRADE BEAM LAYOUT PLAN SHEET NO: S-06 DATE: 29.11.2021
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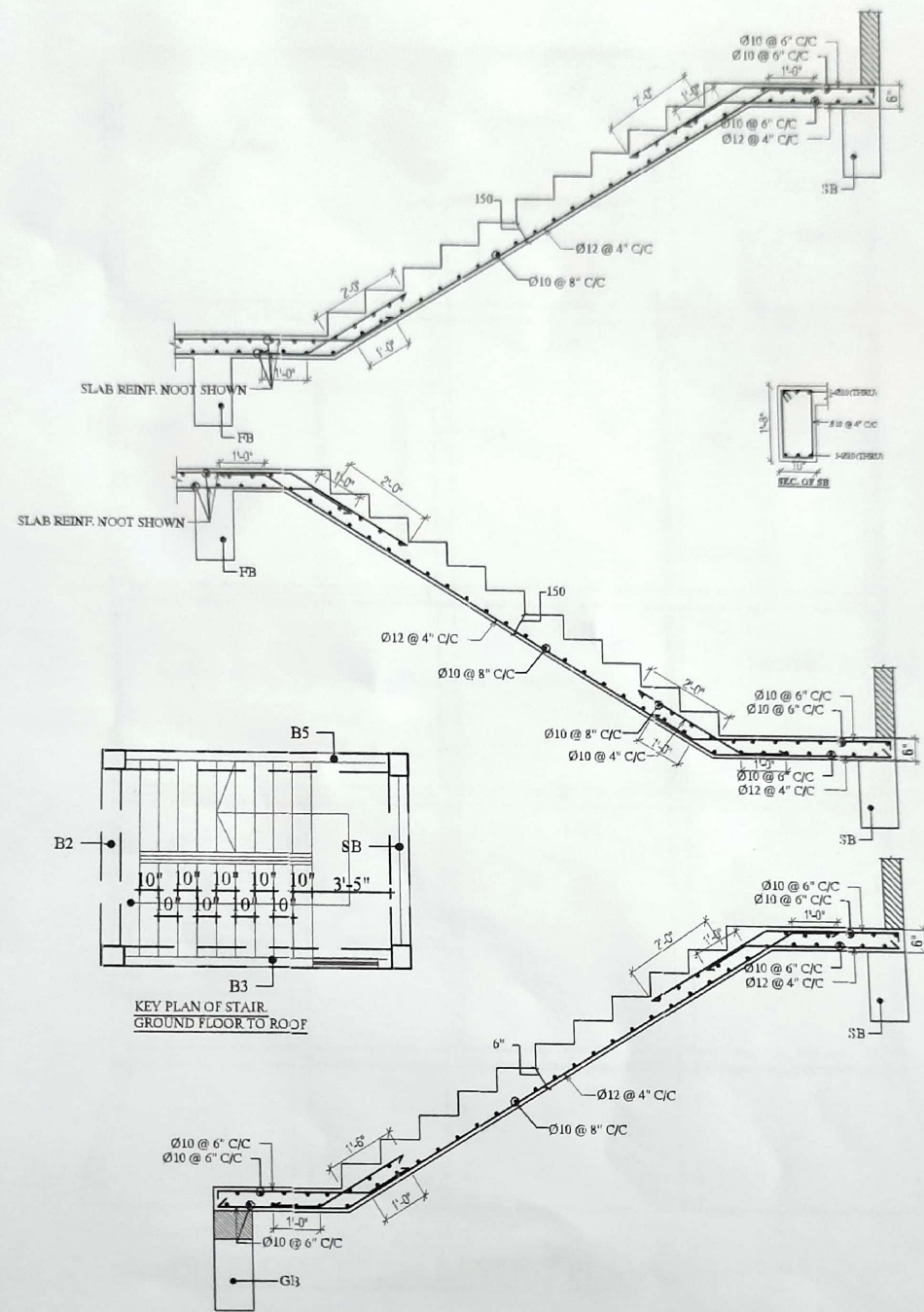
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LONG SECTION OF GRADE BEAM
SHEET NO. : 3-07
DATE: 29.11.2021

DRAWN BY:
UTTAM MAITRA

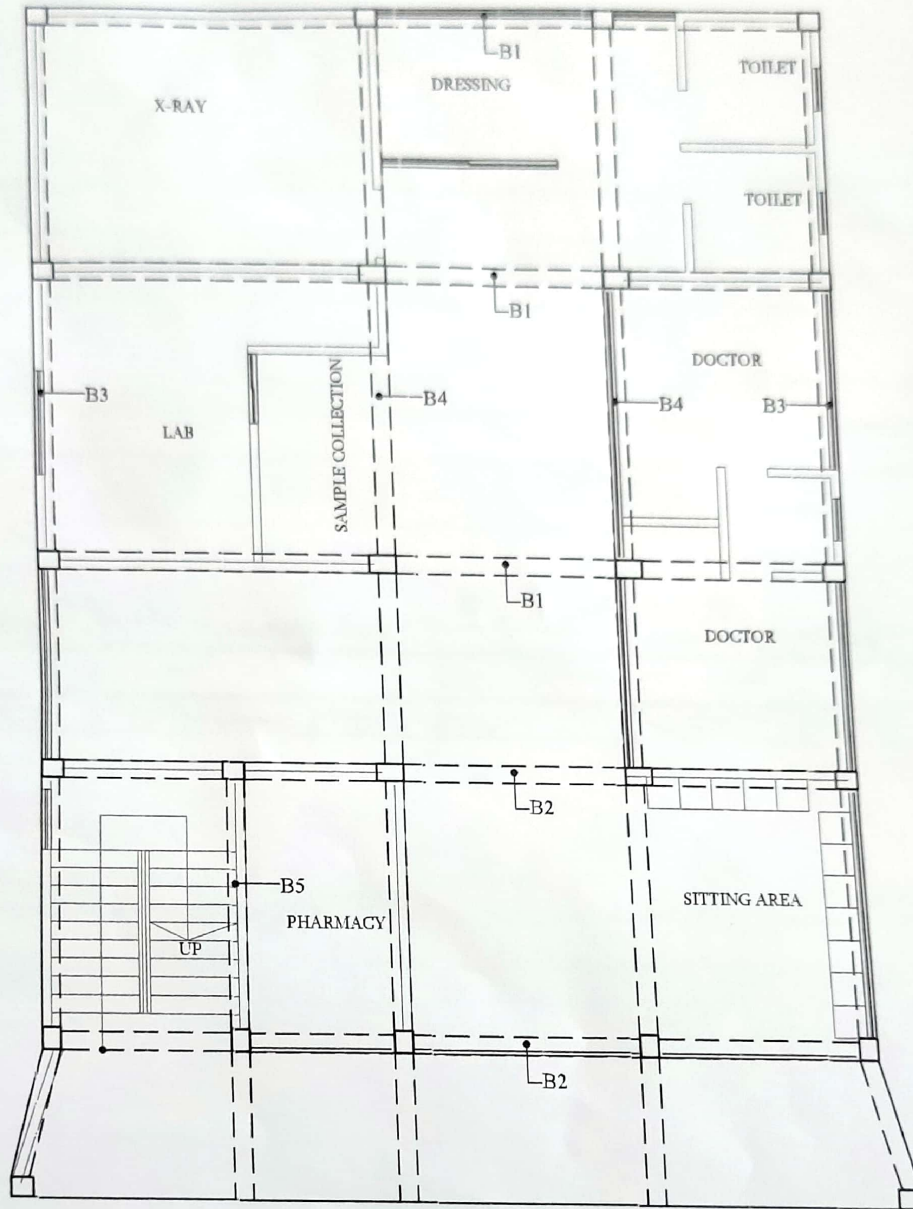
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CLIENT :

PROJECT:
PROPOSED 2-STORIED COMMERCIAL
BUILDING, AT

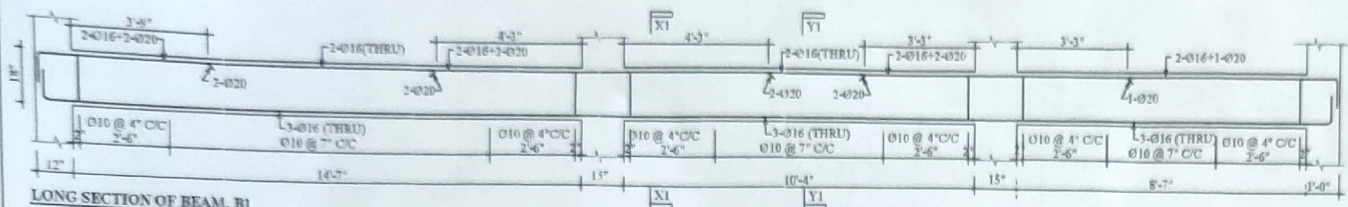


PROJECT: PROPOSED 2-STORY COMMERCIAL BUILDING, AT	CLIENT:	STRUCTURAL DESIGN BY:	DRAWN BY: UTTAM MAITRA	DRAWING TITLE: STAIR DETAILS SHEET NO: 3-08 DATE: 20.11.2021
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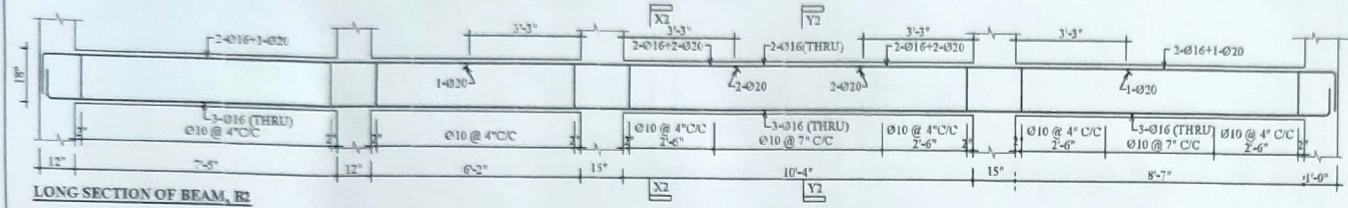
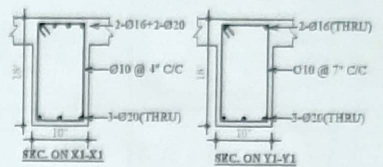


1ST FLOOR BEAM LAYOUT PLAN

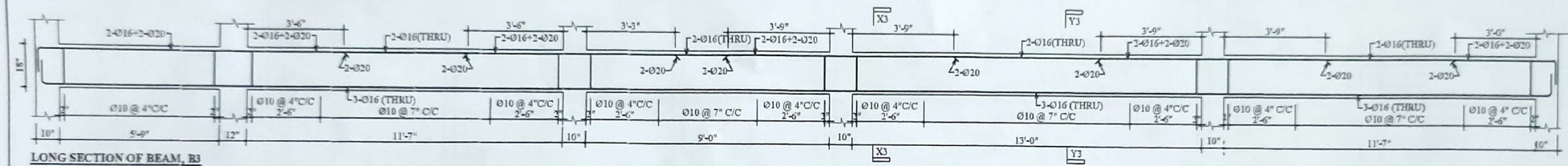
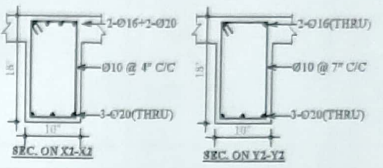
PROJECT: PROPOSED 2-STORIED COMMERCIAL BUILDING, AT	CLIENT: 	STRUCTURAL DESIGN BY: 	DRAWN BY: UTTAM MAITRA	DRAWING TITLE: 1ST FLOOR BEAM LAYOUT PLAN SHEET NO: S-09 DATE: 29.11.2021
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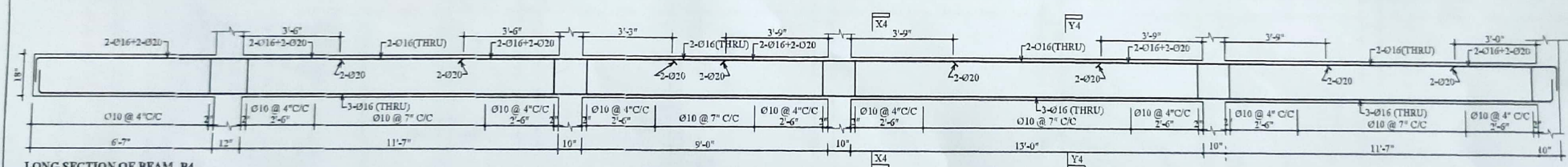
LONG SECTION OF BEAM, B1



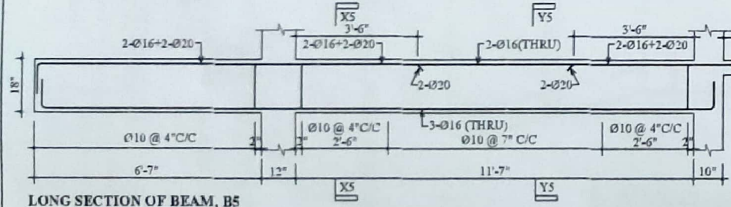
LONG SECTION OF BEAM, B2



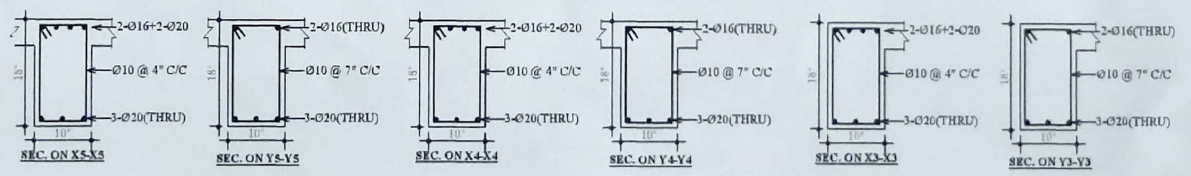
LONG SECTION OF BEAM, B3



LONG SECTION OF BEAM, B4



LONG SECTION OF BEAM, B5



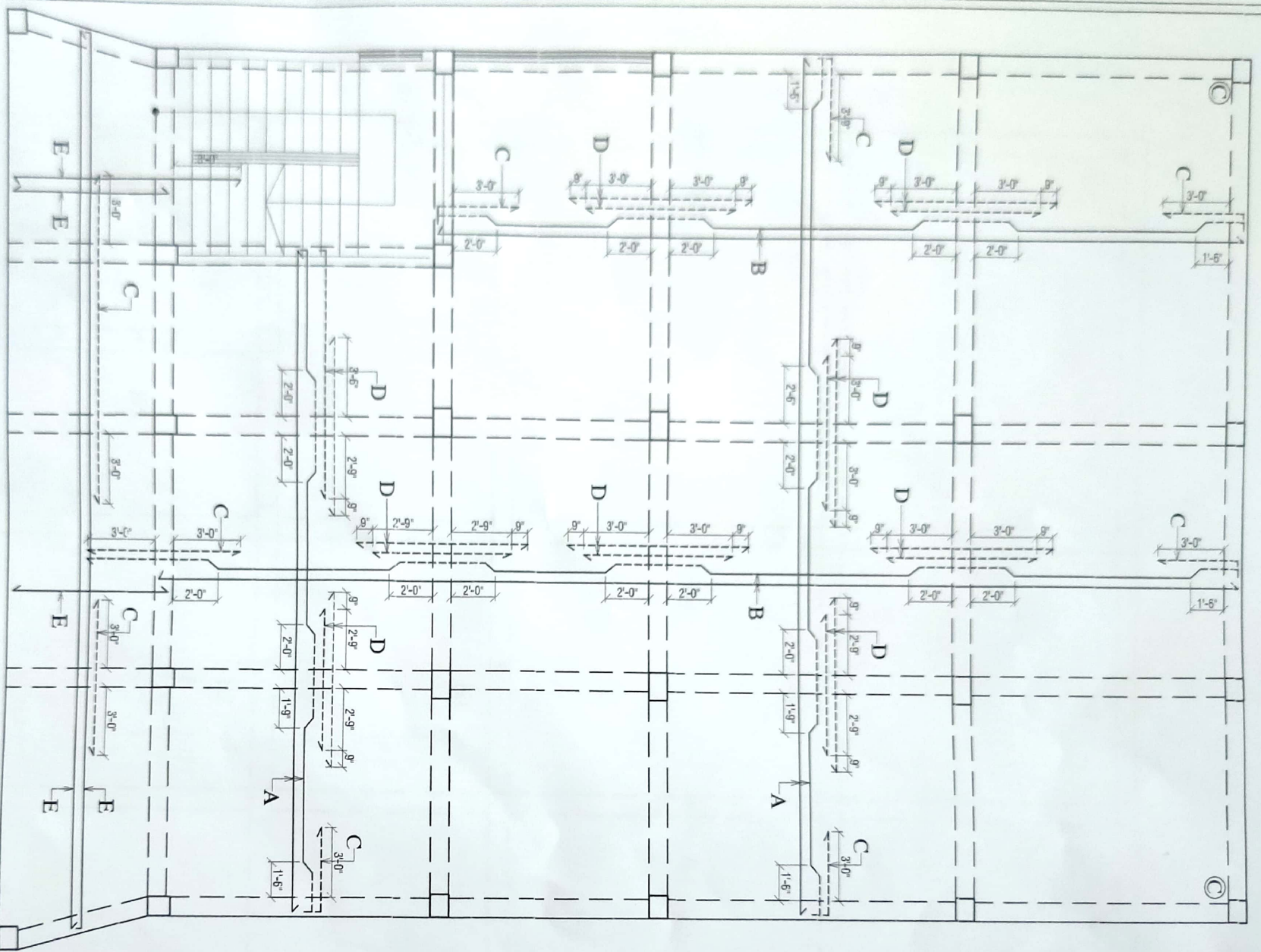
DRAWING TITLE :
LONG SECTION OF 1ST FLOOR BEAM
SHEET NO : S-10
DATE : 29.11.2021

DRAWN BY :
UTTAMAIKRA

STRUCTURAL DESIGN BY :

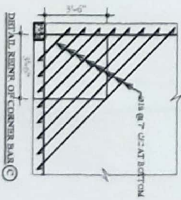
CLIENT :

PROJECT :
PROPOSED 2-STORIED COMMERCIAL
BUILDING, AI



1ST FLOOR SLAB REINF. PLAN

- NOTES:
1. SLAB THICKNESS IS = 5"
 2. SLAB REINFORCEMENT SHALL BE AS FOLLOWS:
 A = 010 @ 6" C/C ALT. CKD
 B = 010 @ 8" C/C ALT. CKD
 C = 1-010 EXTRA TOP
 D = 2-012 EXTRA TOP
 E = 010 @ 8" C/C
 3. BINDERS ARE NOT SHOWN BUT 010 @ 10" C/C SHALL BE USED
 4. CORNER REINFORCEMENT SHALL BE USE AT EACH CORNER MARKED BY (C)



PROJECT :
 PROPOSED 2-STORED COMMERCIAL BUILDING, AT

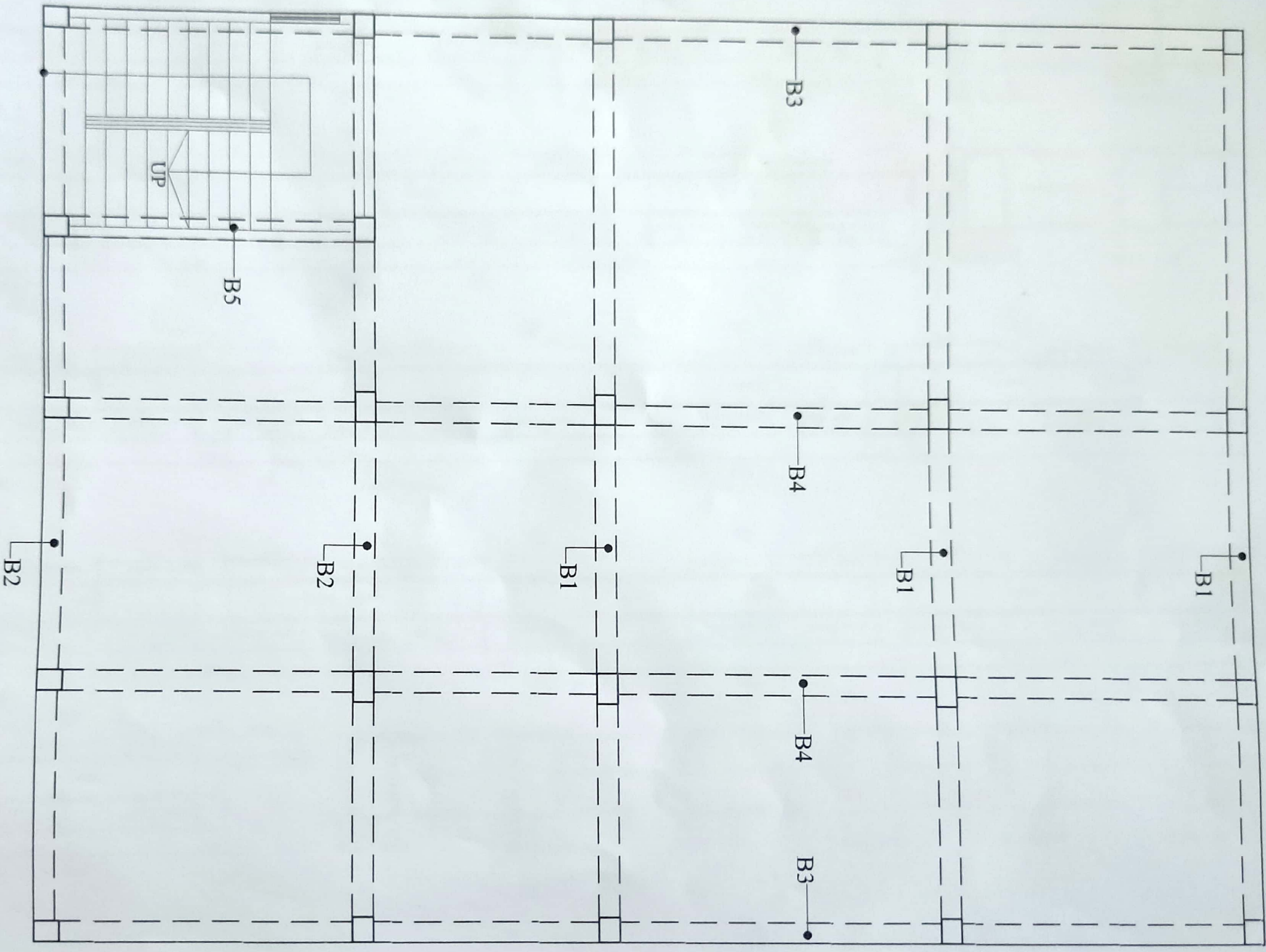
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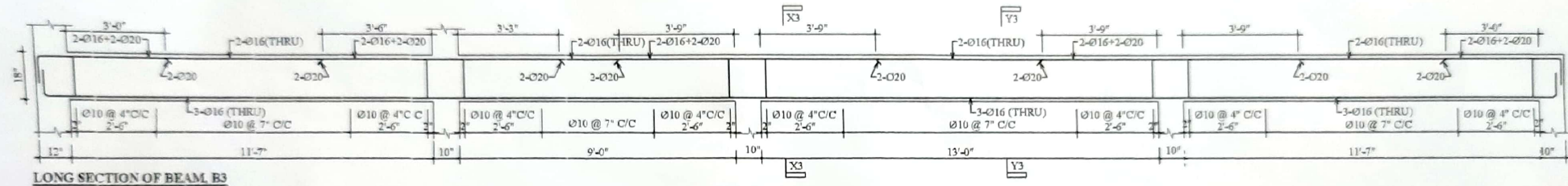
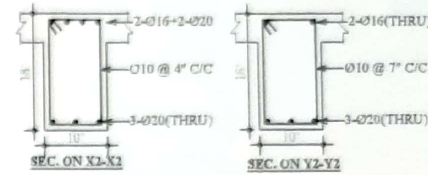
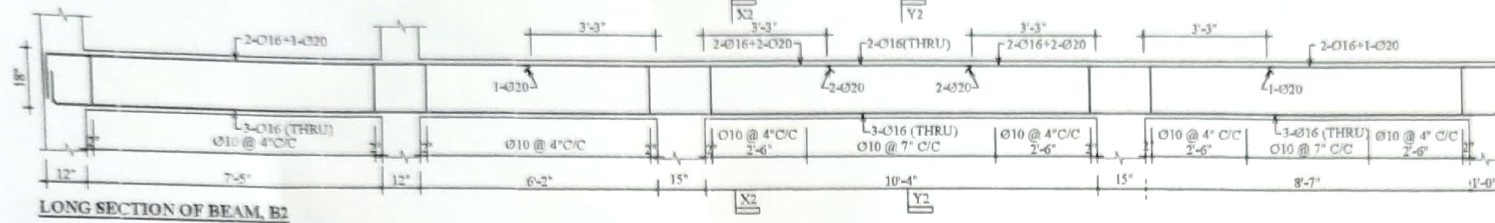
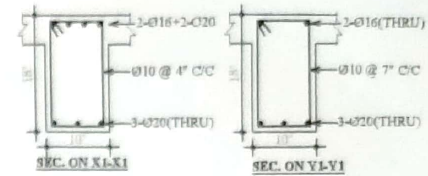
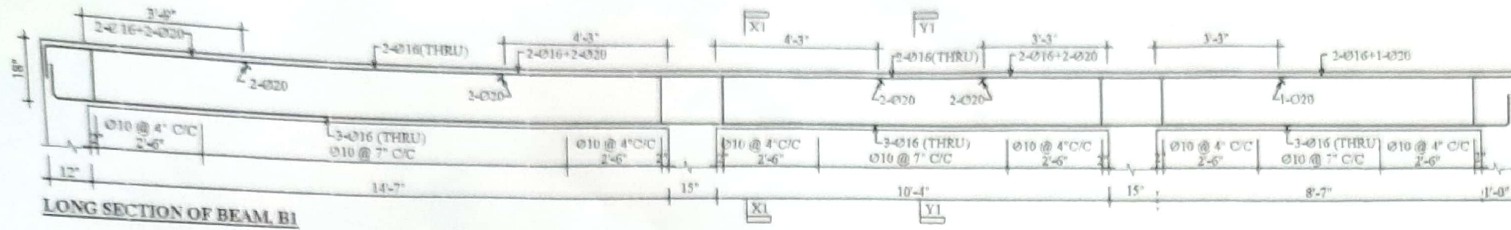
DRAWN BY:
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DRAWING TITLE:
 1ST FLOOR SLAB REINF. PLAN

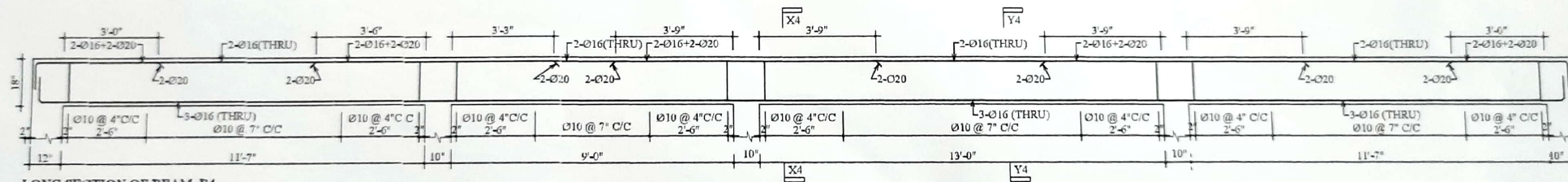
SHEET NO. : S-11
 DATE: 29.11.2021



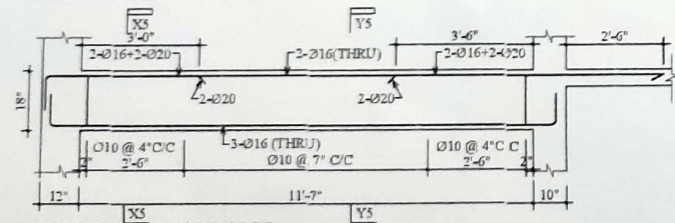
ROOF BEAM LAYOUT PLAN



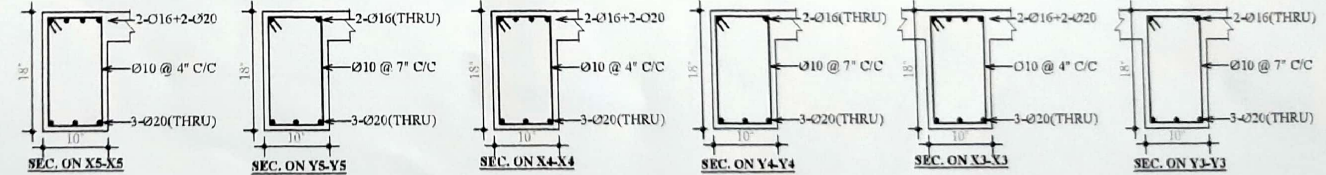
LONG SECTION OF BEAM B3



LONG SECTION OF BEAM B4



LONG SECTION OF BEAM B5



DRAWING TITLE :
LONG SECTION OF BEAM
SHEET NO : 3-13
DATE : 29.11.2021

DRAWN BY :
UTTAMMAURA

STRUCTURAL DESIGN BY :

CLIENT :

PROJECT :
PROPOSED 2-STORIED COMMERCIAL BUILDING, AT