



Government of Nepal
Ministry of Education
Department of Education

2 STOREY - 8 ROOM - RCC

Type Design 3 - U-2b-alt 2

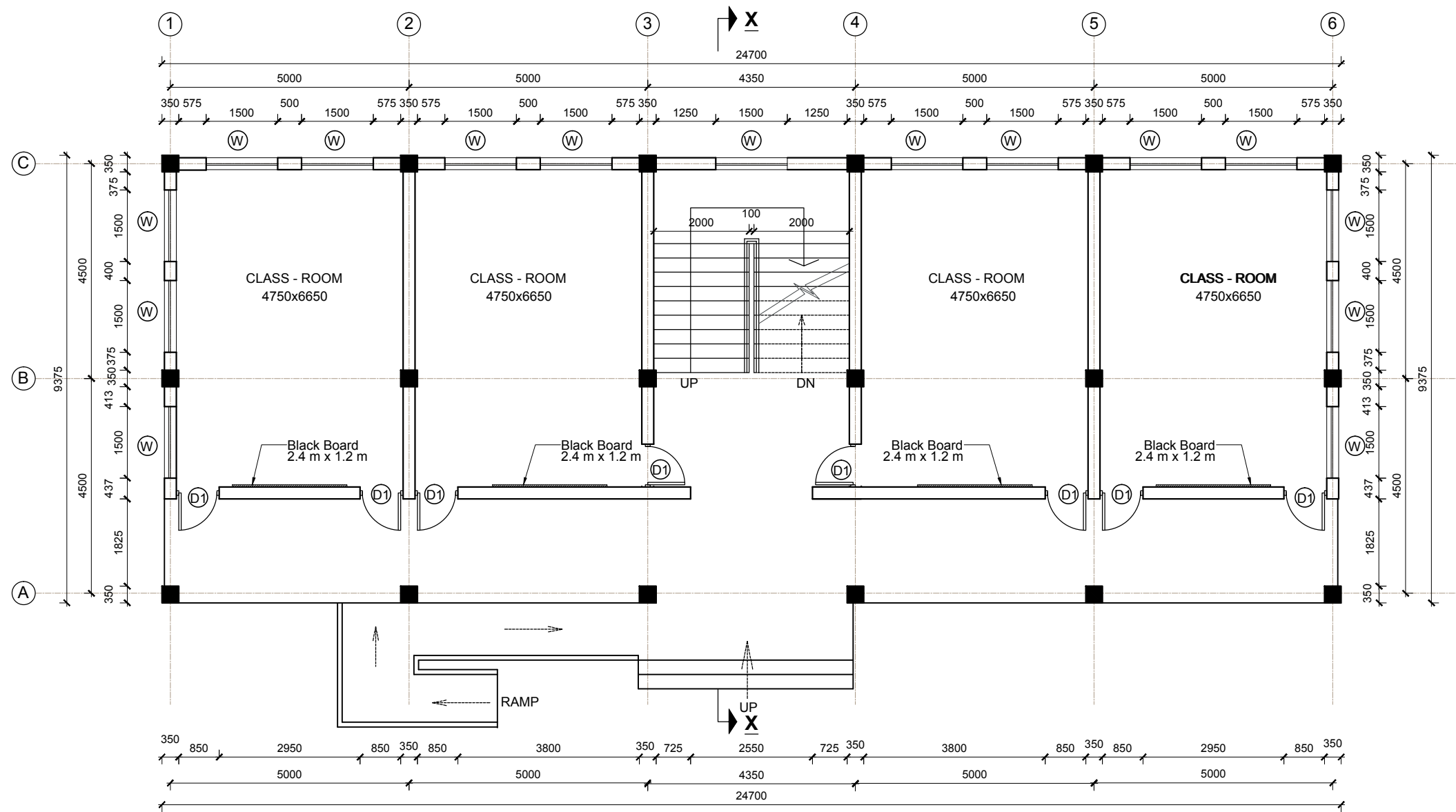
APPROVED: 72/09/19

PUBLISHED: June 2016



DRAWINGS LIST:

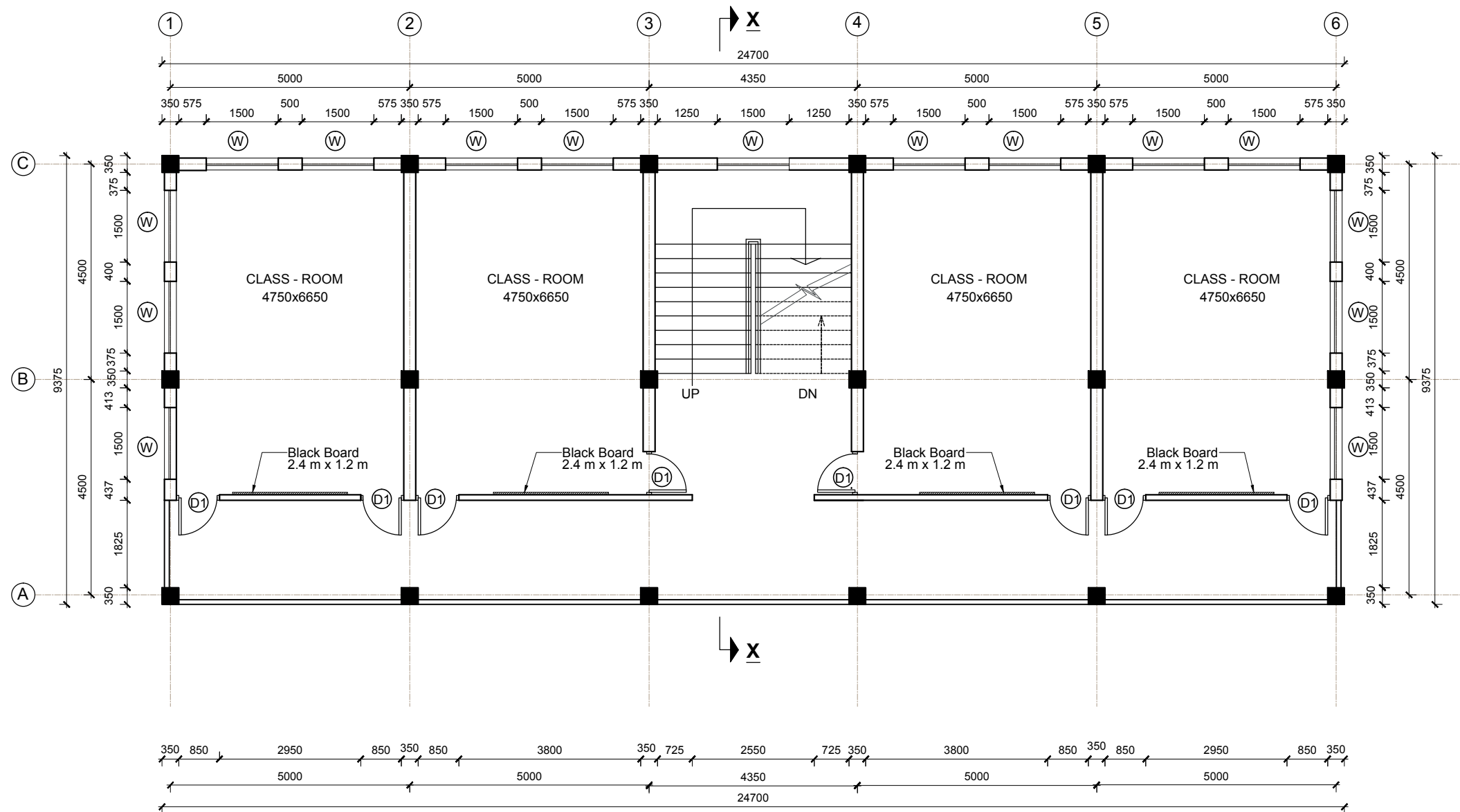
A1. GROUND FLOOR PLAN
A2. FIRST FLOOR PLAN
A3. SECOND FLOOR PLAN
A4. ELEVATIONS
A5. ELEVATIONS & SECTIONS

S1. GENERAL NOTES
S2. GRID, LAYOUT, EXCAVATION
S3. FOUNDATION NAMING PLAN
S4. FOUNDATION DETAILS
S5. PLINTH WALL FORMWORK / SOFT SOIL
S6. COLUMN DETAILS
S7. COLUMN DETAILS
S8. BEAM LAYOUT PLAN
S9. BEAM DETAILS - FIRST FLOOR
S10. BEAM DETAILS - SECOND FLOOR
S11. BEAM DETAILS - SECOND FLOOR
S12. SLAB DETAILS
S13. SLAB DETAILS
S14. SLAB DETAILS
S15. STAIRCASE DETAILS
S16. BAND DETAILS
S17. BAND DETAILS





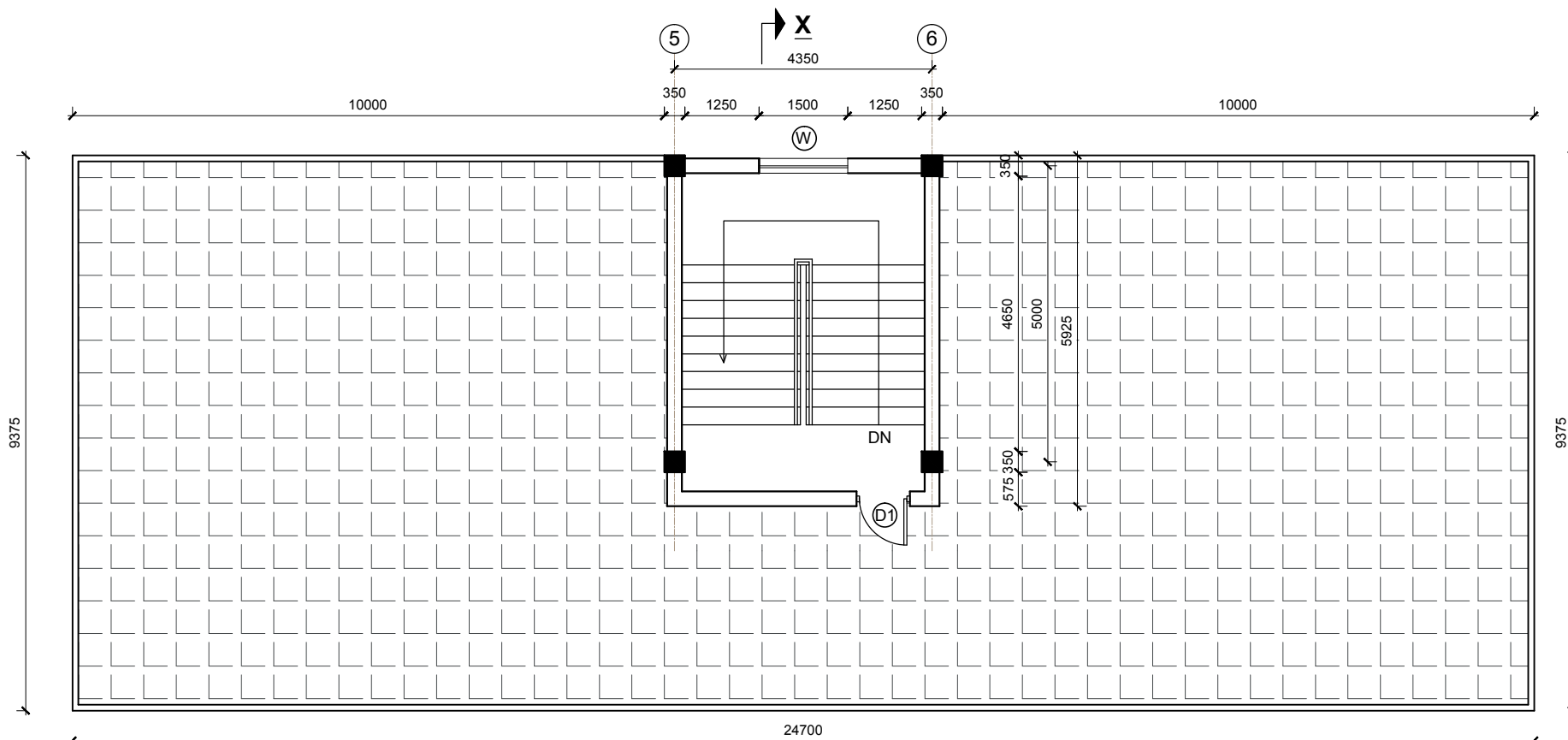
GROUND FLOOR PLAN

 <p>Department of Education Government of Nepal Ministry of Education Sanothimi, Bhaktapur</p>	<p>CONSULTANT :</p>  <p>RND CENTRE PVT. LTD.</p>	<p>U-2b-alt-2, 4 classroom two story Building ARCHITECTURAL DRAWINGS</p>	<p>CONSULTANT</p> <p>DRAWN BY:</p> <p>Name: JULISHA PRADHAN</p> <p>Designation:</p> <p>NEC NO:</p> <p>Date:</p>	<p>APPROVED BY:</p>	<p>SCALE :</p> <p>1: 100</p> <p>DATE : Jan 2016</p>	<p>PAPER SIZE</p> <p>A3</p>	<p>SHEET NO. :</p> <p>A-1 5</p>
	<p>TITLE :</p> <p>GROUND FLOOR PLAN</p>						





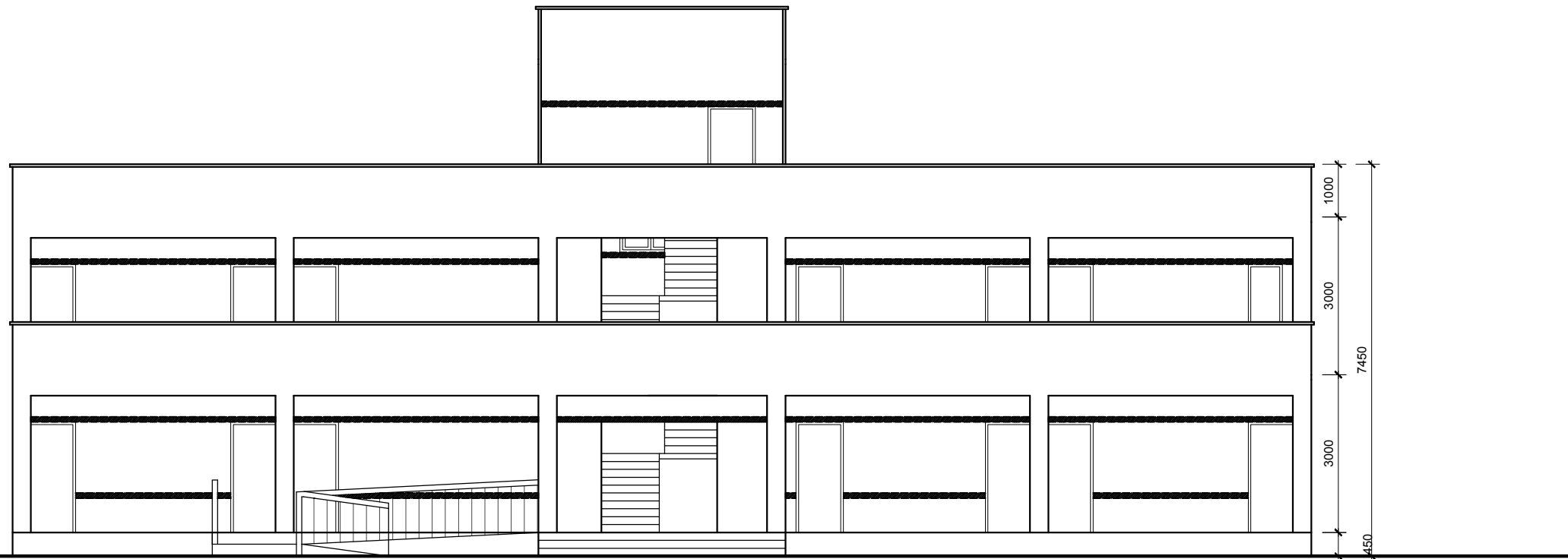
FIRST FLOOR PLAN

 <p>Department of Education Government of Nepal Ministry of Education Sanothimi, Bhaktapur</p>	CONSULTANT :	U-2b-alt-2, 4 classroom two story Building ARCHITECTURAL DRAWINGS	CONSULTANT	DRAWN BY:	APPROVED BY:	SCALE :	PAPER SIZE	SHEET NO. :
	 <p>RND CENTRE PVT. LTD.</p>	TITLE :	Name:	JULISHA PRADHAN		1: 100	A3	A-2
		FIRST FLOOR PLAN	Designation:			DATE : Jan 2016		5
			NEC NO:					
			Date:					




TOP FLOOR PLAN



 <p>Department of Education Government of Nepal Ministry of Education Sanothimi , Bhaktapur</p>	CONSULTANT :		U-2b-alt-2, 4 classroom two story Building ARCHITECTURAL DRAWINGS TITLE : SECOND FLOOR PLAN		CONSULTANT	DRAWN BY:	APPROVED BY:	SCALE :	PAPER SIZE	SHEET NO. :
	 RND CENTRE PVT. LTD.				Name: JULISHA PRADHAN			1: 100		
				Designation:			DATE : Jan 2016			
				NEC NO:						
				Date:						

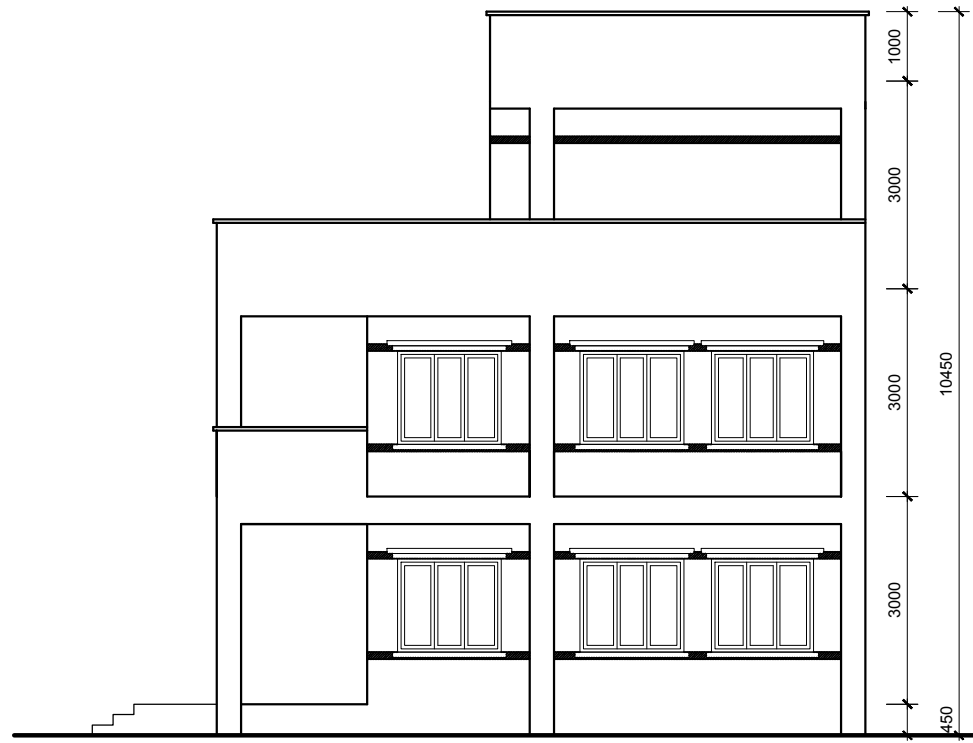


FRONT ELEVATION

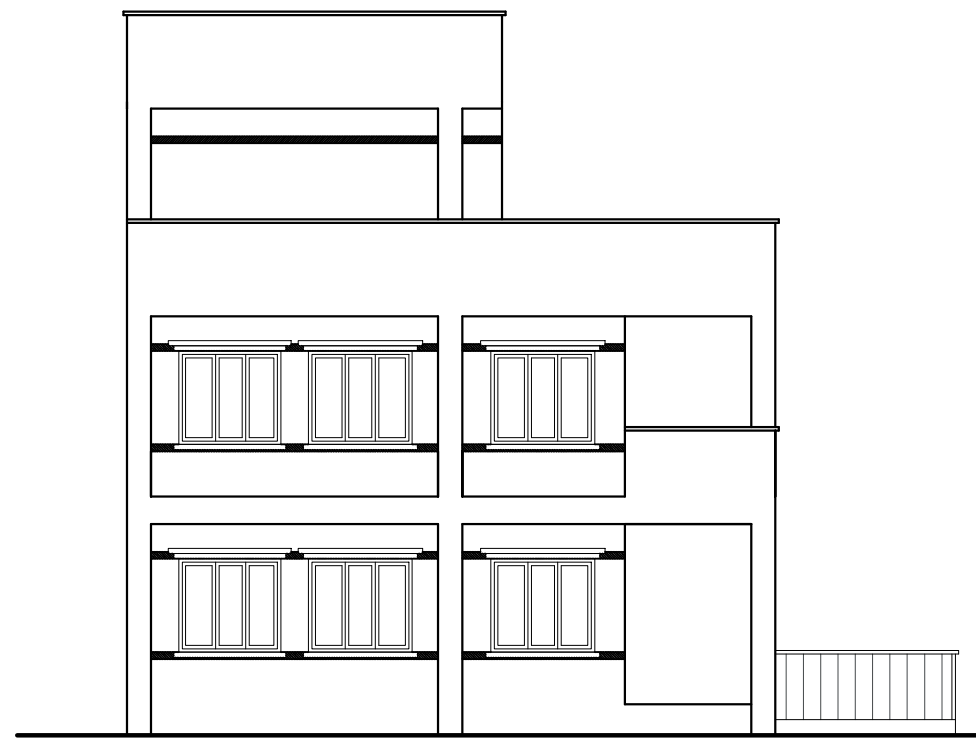


BACK ELEVATION

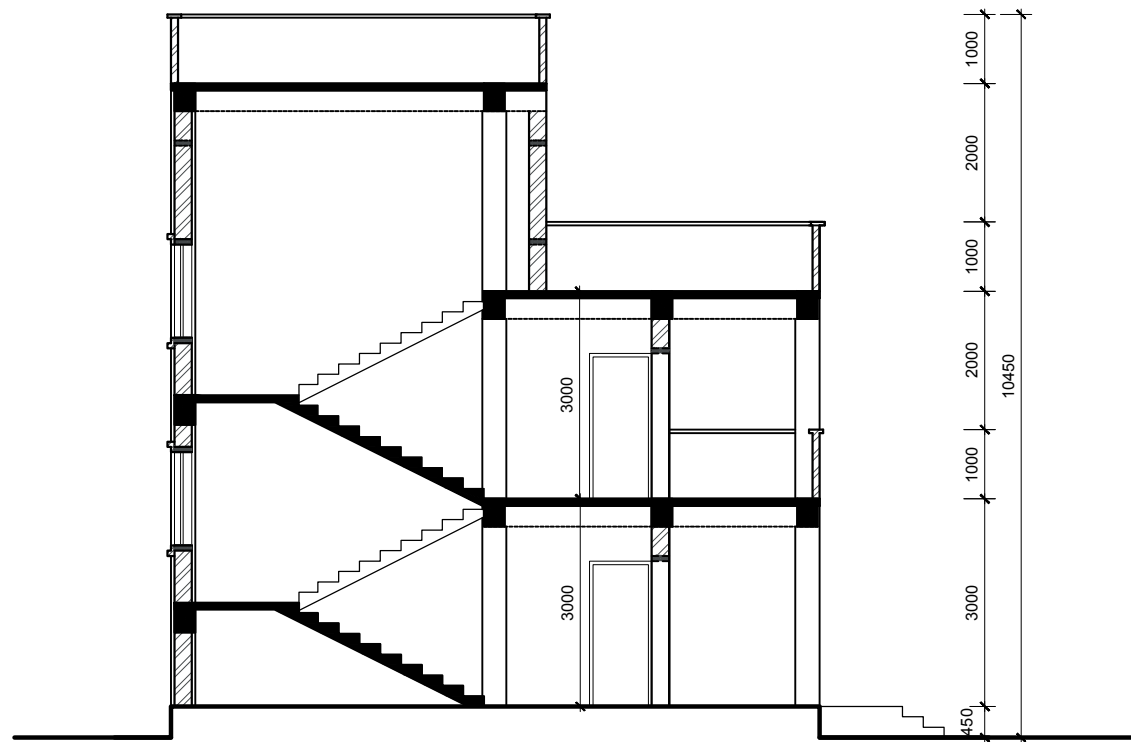
 <p>Department of Education Government of Nepal Ministry of Education Sanothimi , Bhaktapur</p>	CONSULTANT :	U-2b-alt-2, 4 classroom two story Building ARCHITECTURAL DRAWINGS	CONSULTANT	DRAWN BY:	APPROVED BY:	SCALE :	PAPER SIZE	SHEET NO. :
	 <p>RND CENTRE PVT. LTD.</p>	TITLE :	Name:	JULISHA PRADHAN		1: 100	A3	A-4
		ELEVATIONS	Designation:			DATE : Jan 2016		5
			NEC NO:					
			Date:					





RIGHT SIDE ELEVATION



LEFT SIDE ELEVATION





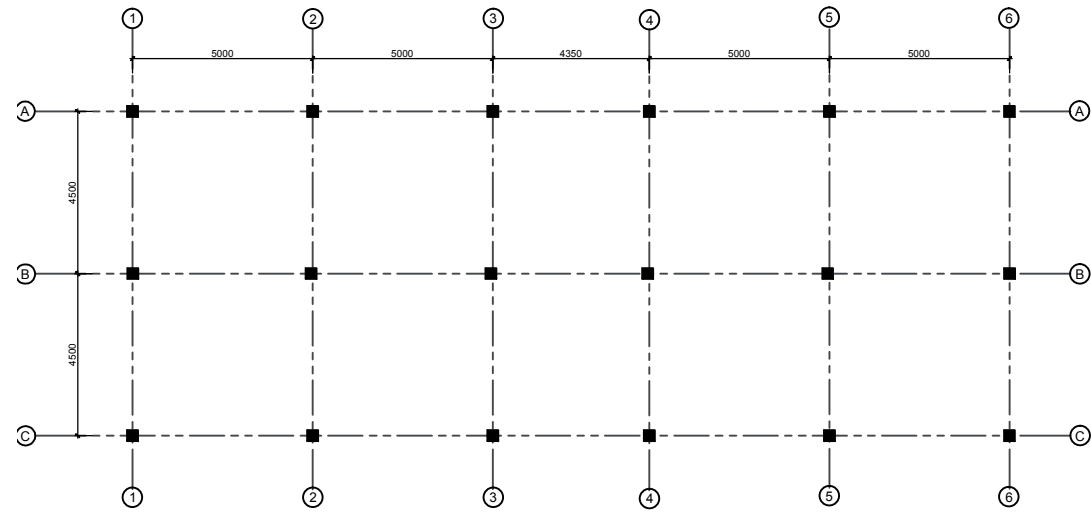
SECTION AT X-X

 <p>Department of Education Government of Nepal Ministry of Education Sanothimi, Bhaktapur</p>	CONSULTANT :	U-2b-alt-2, 4 classroom two story Building ARCHITECTURAL DRAWINGS	CONSULTANT	DRAWN BY:	APPROVED BY:	SCALE :	PAPER SIZE	SHEET NO. :
	 <p>RND CENTRE PVT. LTD.</p>		TITLE :	Name: JULISHA PRADHAN		SCALE : 1: 100		
		ELEVATIONS AND SECTION	Designation:		DATE : Jan 2016			
			NEC NO:					
			Date:					

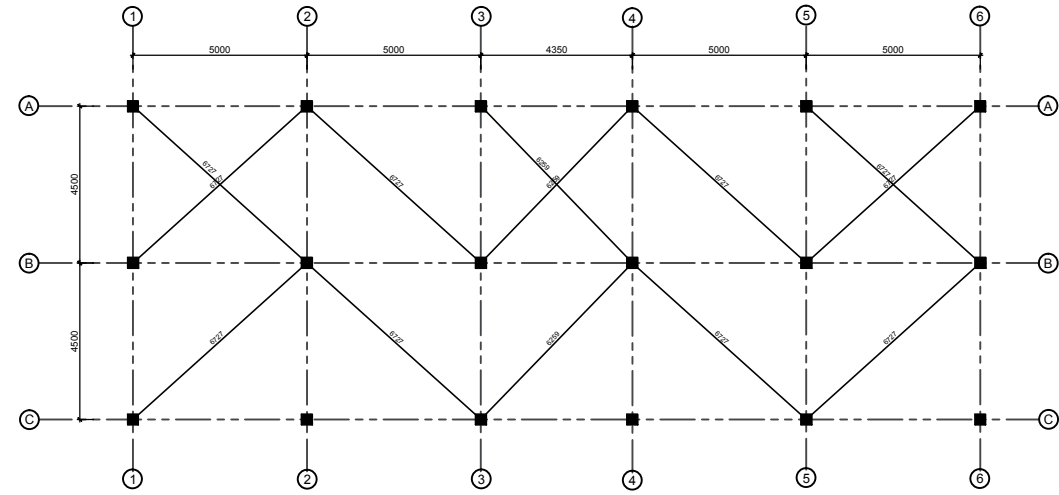
GENERAL NOTES:-

- THESE NOTES ARE APPLICABLE TO ALL DRAWING UNLESS MENTIONED OTHERWISE.
- ALL WORKS SHALL BE IN ACCORDANCE WITH RELEVANT NEPAL NATIONAL BUILDING CODES AND STANDARD.
- USE ELECTRO-MECHANICAL VIBRATOR FOR COMPACTION OF RCC WORK
- CLEAR CONCRETE COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS:
 - > FOUNDATION = 50 mm (FOR BELOW PCC)
 - > COLUMNS = 40mm
 - > SLAB = 15mm
- THE FOUNDATIONS TO REST ON FIRM SUBGRADE SOIL.
- LAYOUT DIMENSION SHOULD BE CHECKED BY THE ARCHITECT BEFORE STRUCTURAL DRAWINGS ARE ISSUED FOR CONSTRUCTION.
- IN CASE OF DISCREPANCY BETWEEN B.O.Q & DRAWINGS, FOLLOW DRAWINGS.
- ALL R.C.C WORK SHALL BE CONTINUOUSLY CURED FOR 14-DAYS.
- UNLESS NOTED OTHERWISE FORM WORK FROM R.C.C WORK SHALL BE REMOVED ACCORDING TO THE TIME INDICATED BELOW.
 - > COLUMNS / BEAMS SIDES AFTER 48 HRS OF POURING.
 - > BEAM BOTTOM AFTER 28 DAYS OF POURING.
 - > SLAB AFTER 21 DAYS OF POURING.
- ALL ELECTRICITY CONDUITS SHALL BE PLACED ON TOP OF TENSION REINFORCEMENT.
- THE DESIGN OF CONCRETE MIX USING ORDINARY PORTLAND CEMENT, FOR VARIOUS STRENGTHS SHALL BE BASED ON THE "STANDARD PRACTICE FOR SELECTING PROPORTIONS FOR NORMAL HEAVYWEIGHT CONCRETE".
- THE CONCRETE COMPRESSIVE STRENGTH SHALL BE MEASURED ON 150*150*150 mm CUBE AT 28 DAYS, FOR VARIOUS STRUCTURAL ELEMENTS.
- ALL DIMENSION ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.

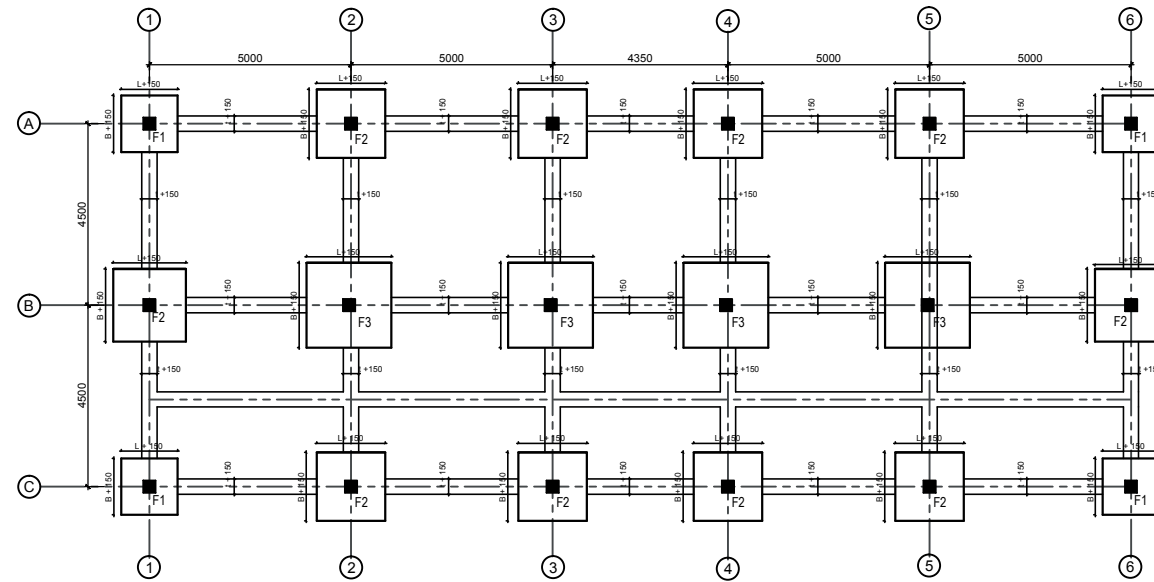
 <p style="text-align: center;">Department of Education Government of Nepal Ministry of Education Sanothimi , Bhaktapur</p>	CONSULTANT :	U-2b-alt-2, 4 classroom two story Building STRUCTURAL DETAILINGS	CONSULTANT	STRUCTURE BY:	APPROVED BY:	SCALE :	PAPER SIZE	SHEET NO. :
	 <p>RND CENTRE PVT. LTD.</p>	TITLE :	Name:	R.K.Mallik		AS SHOWN	A3	<div style="border: 1px solid black; border-radius: 50%; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> <div style="text-align: center;"> <p>S-1</p> <p>17</p> </div> </div>
	GENERAL NOTES	Designation:	Structural Engineer		DATE : Jan 2016			
		NEC NO:	3200 Civil "A"					
		Date:						



GRID NAMING PLAN



GRID NAMING PLAN



EXCAVATION PLAN



Department of Education
Government of Nepal
Ministry of Education
 Sanothimi , Bhaktapur

CONSULTANT :



RND CENTRE PVT. LTD.

U-2b-alt-2, 4 classroom two story Building
 STRUCTURAL DETAILINGS

TITLE :
 GRID,LAYOUT, EXCAVATION

CONSULTANT

Name:
 Designation:
 NEC NO:
 Date:

STRUCTURE BY:

R.K.Mallik
 Structural Engineer
 3200 Civil "A"

APPROVED BY:

SCALE :

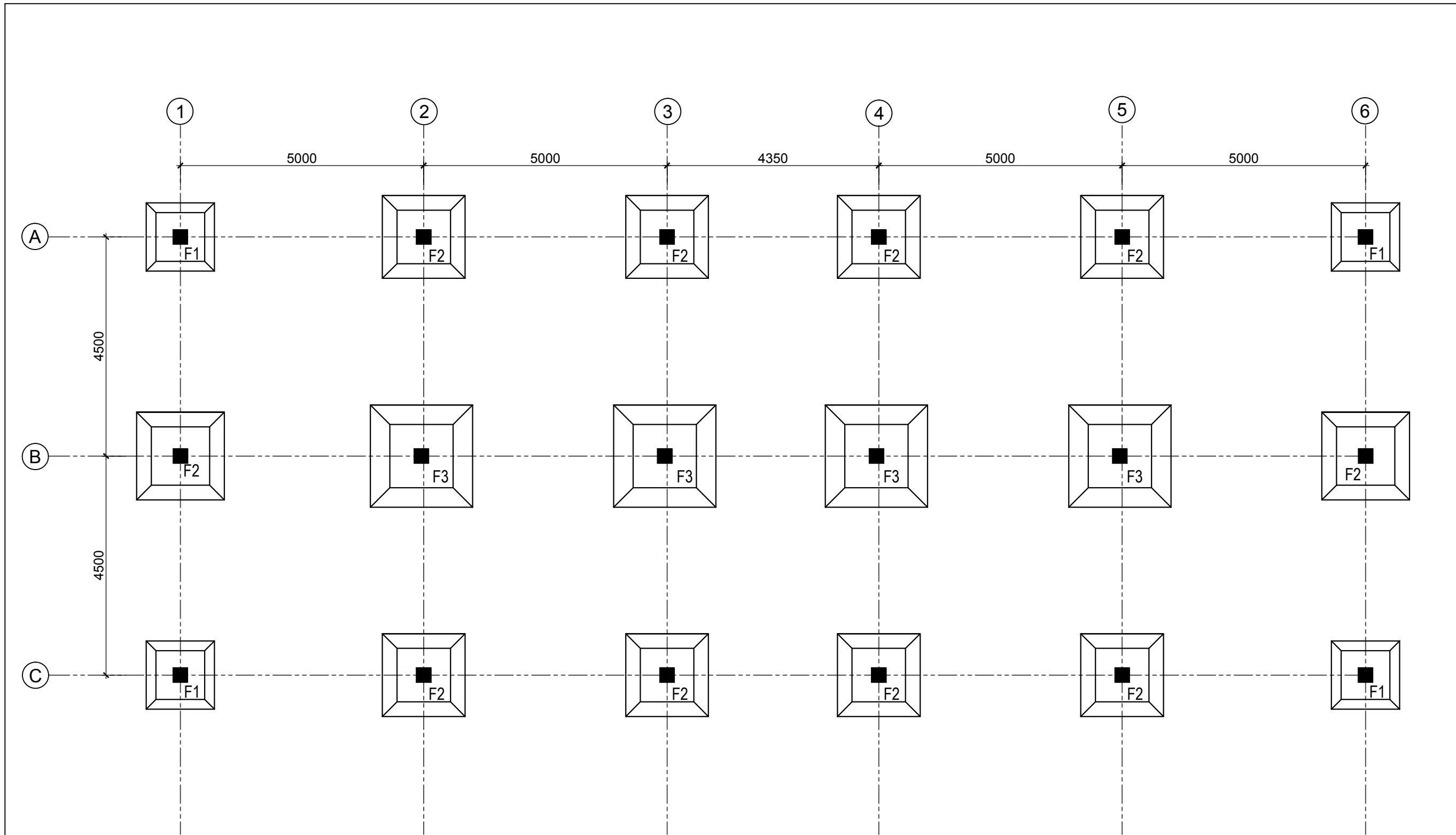
AS SHOWN
 DATE : Jan 2016

PAPER SIZE




A3

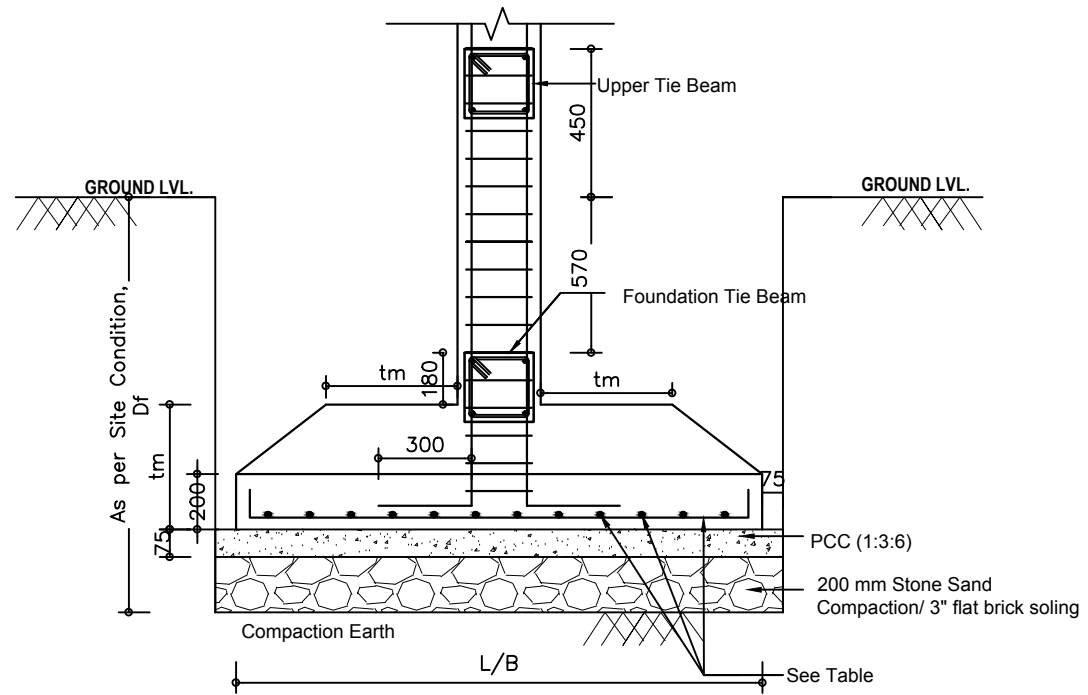
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S-2
17



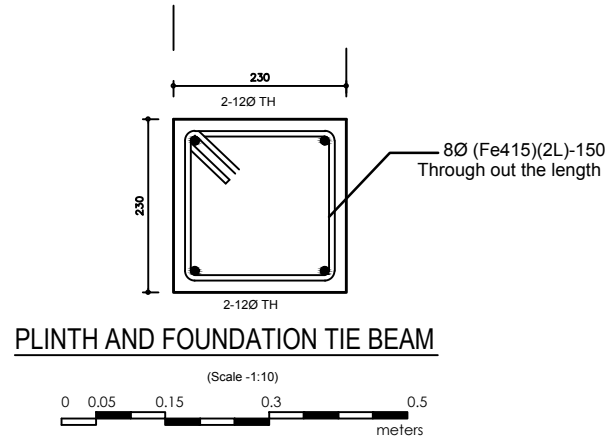
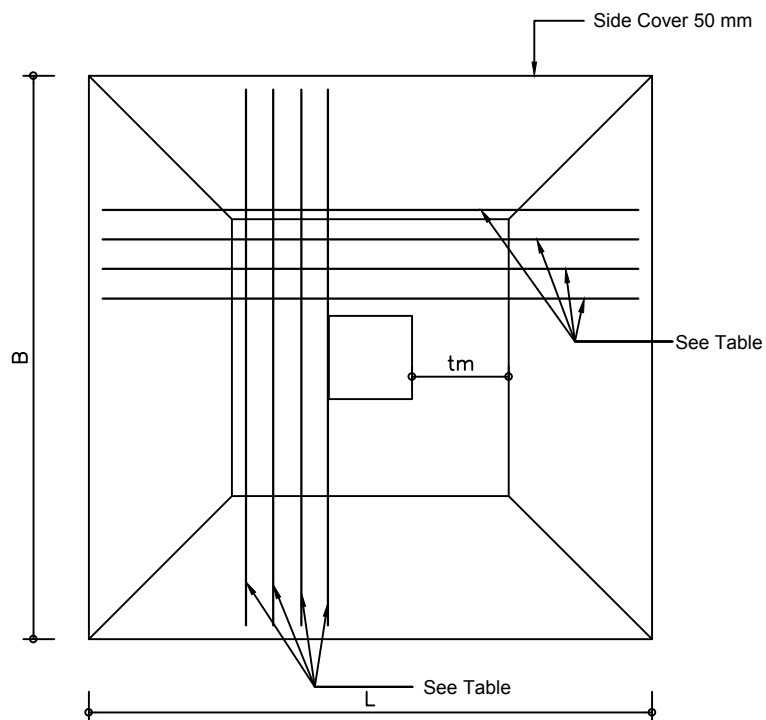
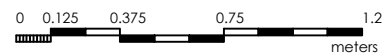
FOUNDATION PLAN

 <p>Department of Education Government of Nepal Ministry of Education Sanothimi, Bhaktapur</p>	CONSULTANT :	U-2b-alt-2, 4 classroom two story Building STRUCTURAL DETAILINGS	CONSULTANT	STRUCTURE BY:	APPROVED BY:	SCALE :	PAPER SIZE	SHEET NO. :
	 <p>RND CENTRE PVT. LTD.</p>	TITLE :	Name: R.K.Mallik		AS SHOWN	A3		
	FOUNDATION NAMING PLAN	Designation: Structural Engineer		DATE : Jan 2016				
			NEC NO: 3200 Civil "A"					
			Date:					



FOOTING SECTION WITH PLINTH BEAM AND FOUNDATION BEAM

For Hard, Medium, Soft and Weak soil (Scale -1:25)



PLINTH AND FOUNDATION TIE BEAM

PAD FOUNDATION SIZE FOR WEAK SOIL
(Safe bearing capacity = 50 KN/m²)

Column Type	Foundation Plan LXB (mm)	Max Thickness	Reinforcement and Spacing	Recommended Minimum foundation depth, Df(mm)
Corner (F1)	2000X2000	300	12 dia@150mm c/c	1500
Face(F2)	2800X2800	400	12 dia@150mm c/c	1500
Inner(F3)	3300X3300	475	12 dia@150mm c/c	1500

PAD FOUNDATION SIZE FOR SOFT SOIL
(Safe bearing capacity = 100 KN/m²)

Column Type	Foundation Plan LXB (mm)	Max Thickness	Reinforcement and Spacing	Recommended Minimum foundation depth, Df(mm)
Corner (F1)	1500X1500	275	12 dia@150mm c/c	1500
Face(F2)	2000X2000	375	12 dia@150mm c/c	1500
Inner(F3)	2325X2325	450	12 dia@150mm c/c	1500

PAD FOUNDATION SIZE FOR MEDIUM SOIL
(Safe bearing capacity = 150 KN/m²)

Column Type	Foundation Plan LXB (mm)	Max Thickness	Reinforcement and Spacing	Recommended Minimum foundation depth, Df(mm)
Corner (F1)	1200X1200	250	12 dia@150mm c/c	1500
Face(F2)	1600X1600	375	12 dia@150mm c/c	1500
Inner(F3)	1900X1900	425	12 dia@150mm c/c	1500

PAD FOUNDATION SIZE FOR HARD SOIL
(Safe bearing capacity = 200 KN/m²)

Column Type	Foundation Plan LXB (mm)	Max Thickness	Reinforcement and Spacing	Recommended Minimum foundation depth, Df(mm)
Corner (F1)	1000X1000	250	12 dia@150mm c/c	1500
Face(F2)	1400X1400	350	12 dia@150mm c/c	1500
Inner(F3)	1700X1700	425	12 dia@150mm c/c	1500



Department of Education
Government of Nepal
Ministry of Education
Sanothimi, Bhaktapur

CONSULTANT :



RND CENTRE PVT. LTD.

U-2b-alt-2, 4 classroom two story Building
STRUCTURAL DETAILS

TITLE :
FOUNDATION DETAILS

CONSULTANT

Name: R.K.Mallik

Designation: Structural Engineer

NEC NO: 3200 Civil "A"

Date:

STRUCTURE BY:

APPROVED BY:

SCALE :

AS SHOWN

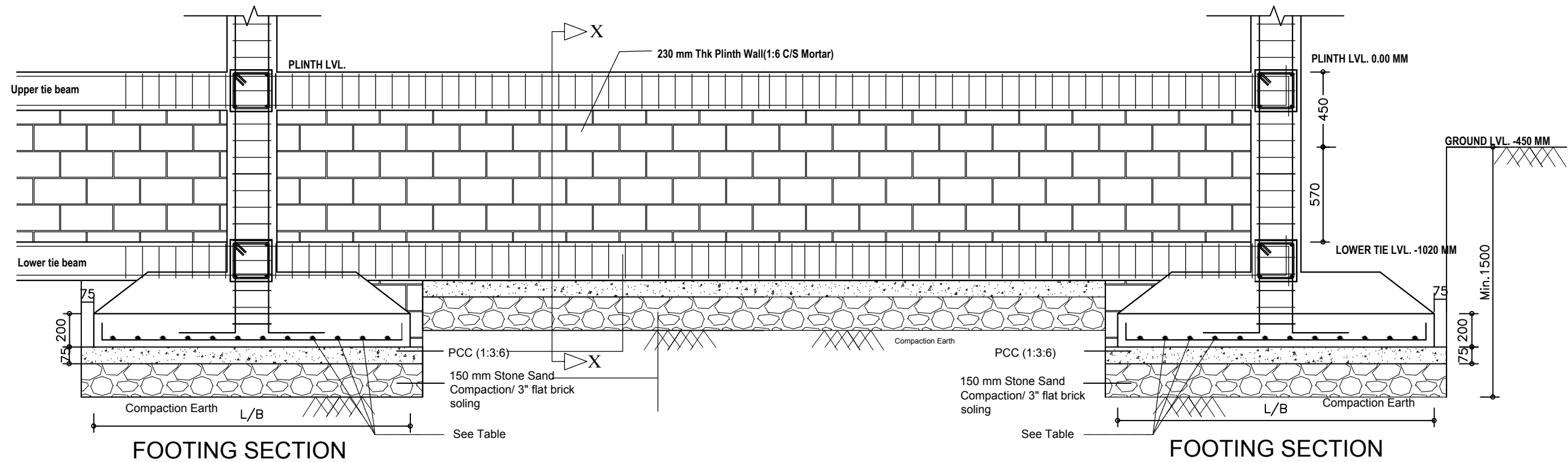
DATE : Jan 2016

PAPER SIZE

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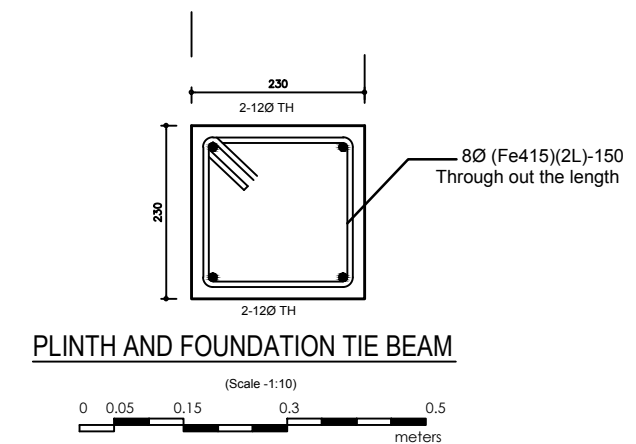
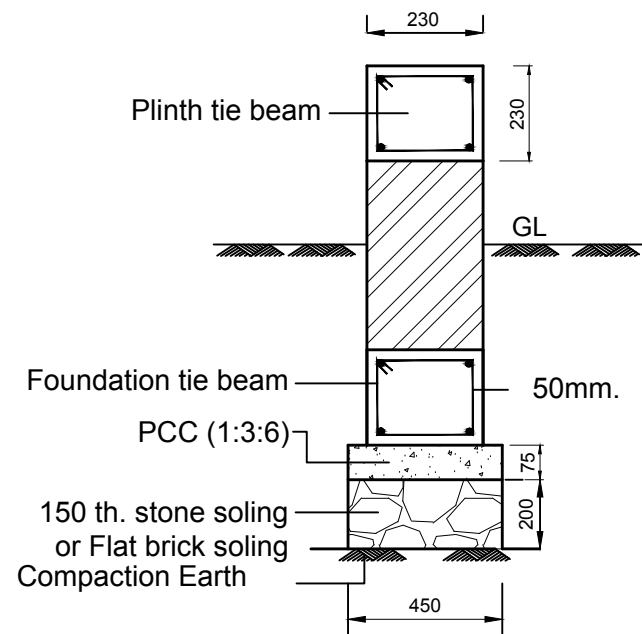
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S-4
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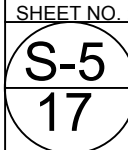


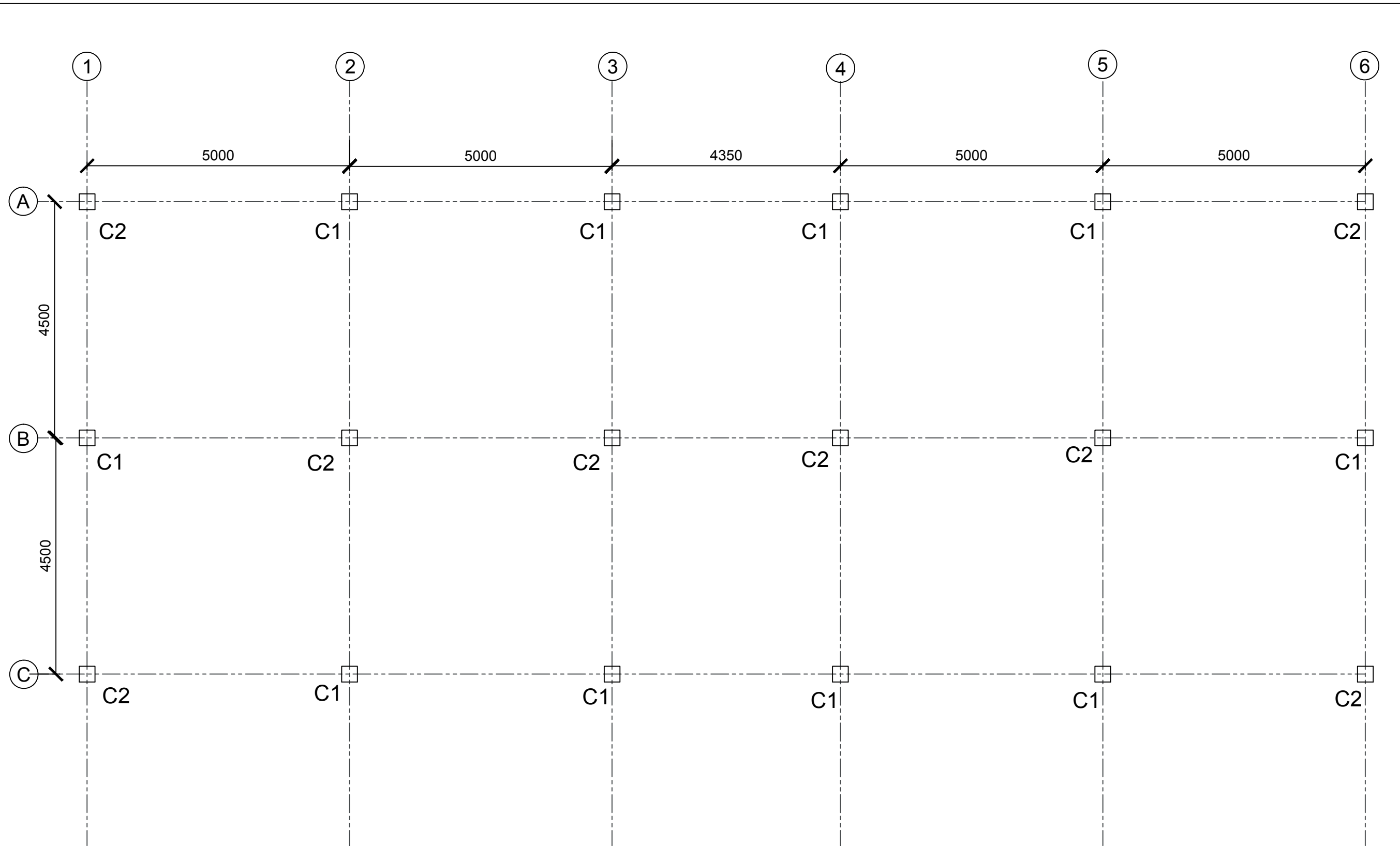
ELEVATION SHOWING FOOTING , LOWER TIE BEAM , UPPER TIE BEAM AND PLINTH WALL

For Hard, Medium, Soft and Weak soil (Scale -1:25)
 0 0.125 0.375 0.75 1.25
 meters






SECTION at X-X

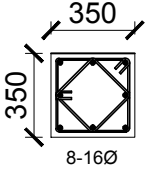
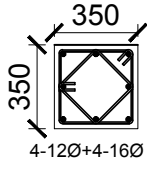
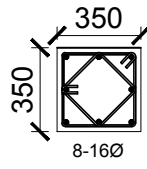
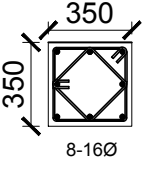
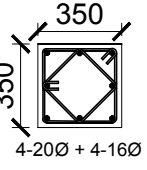
 <p>Department of Education Government of Nepal Ministry of Education Sanothimi , Bhaktapur</p>	CONSULTANT :	U-2b-alt-2, 4 classroom two story Building STRUCTURAL DETAILS	CONSULTANT	STRUCTURE BY:	APPROVED BY:	SCALE :	PAPER SIZE	SHEET NO. :
	 <p>RND CENTRE PVT. LTD.</p>	TITLE :	Name: R.K.Mallik		AS SHOWN	A3		
PLINTH WALL FOR WEAK / SOFT SOIL	Designation: Structural Engineer	NEC NO: 3200 Civil "A"	DATE:	DATE : Jan 2016				



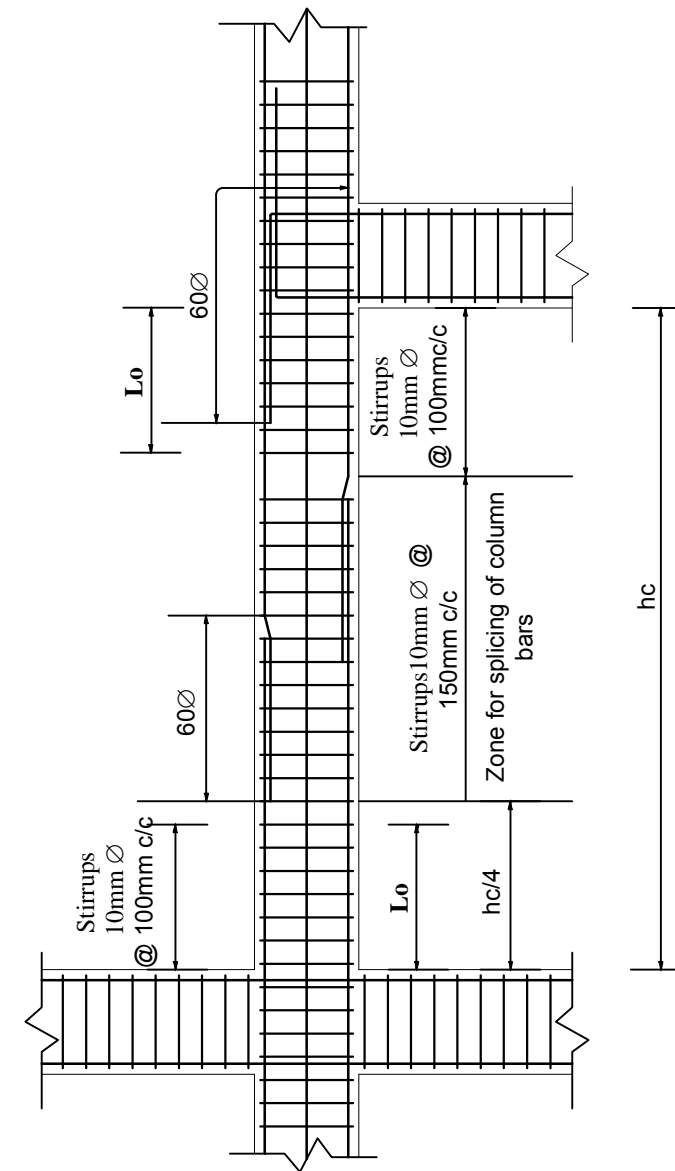
COLUMN PLAN

 <p>Department of Education Government of Nepal Ministry of Education Sanothimi, Bhaktapur</p>	CONSULTANT :	U-2b-alt-2, 4 classroom two story Building STRUCTURAL DETAILINGS	CONSULTANT	STRUCTURE BY:	APPROVED BY:	SCALE :	PAPER SIZE	SHEET NO. :
	 <p>RND CENTRE PVT. LTD.</p>	TITLE :	Name: R.K.Mallik		AS SHOWN	A3		
	COLUMN LAYOUT PLAN	Designation: Structural Engineer		DATE : Jan 2016				
			NEC NO: 3200 Civil "A"					
			Date:					

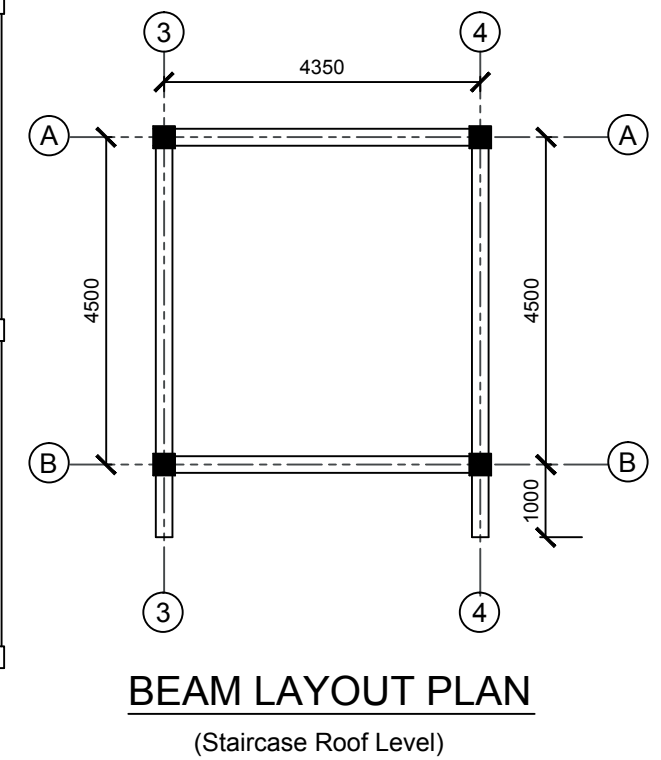
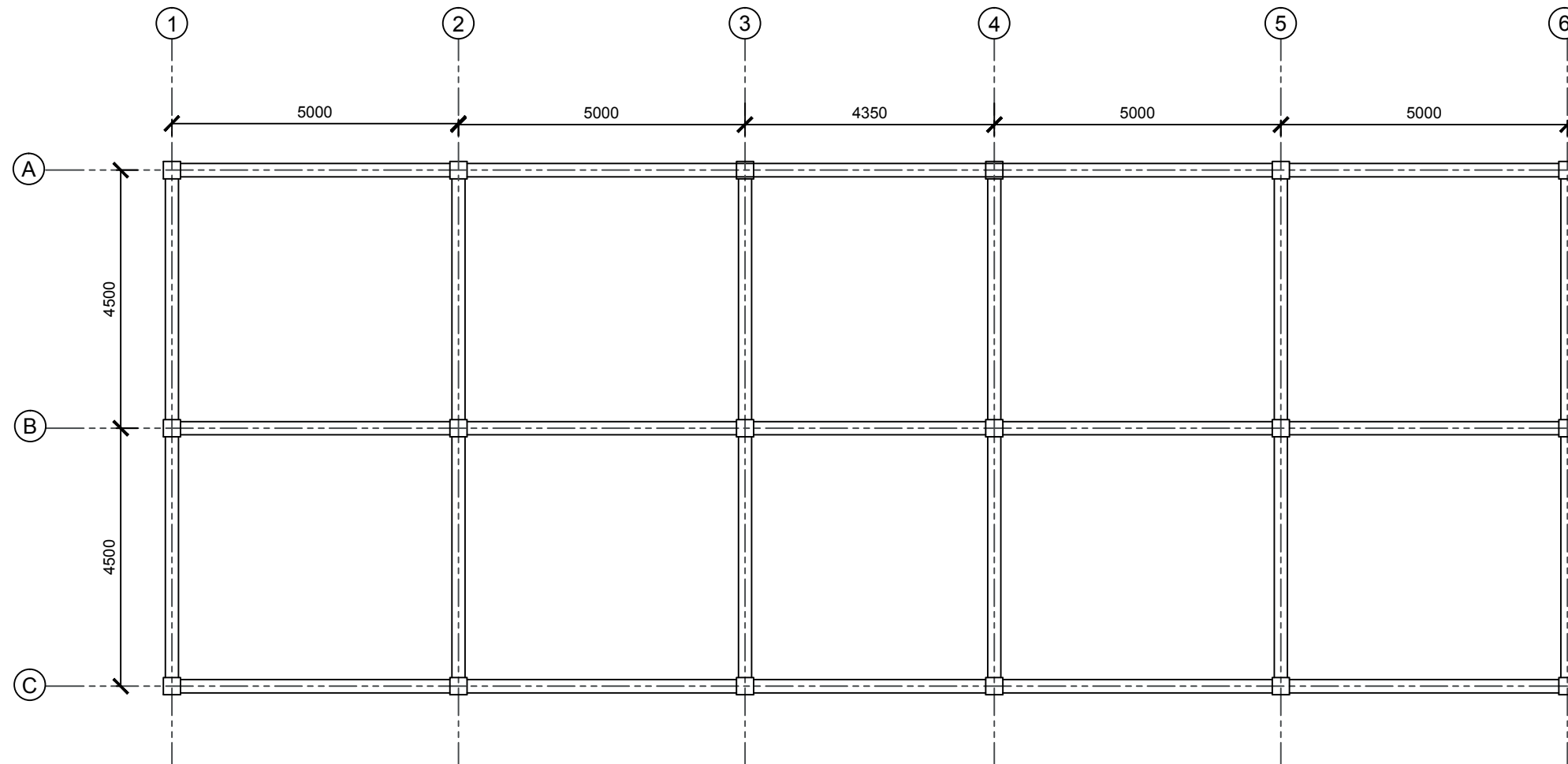
COLUMN SIZE AND REINFORCEMENT



Floor	Column C1	Column C2	Stirrups		Grade
			T & B (H/4)	Mid (H/2)	
Pent House			8Ø @ 100mm c/c	8Ø @ 150mm c/c	M 20
Second Storey			8Ø @ 100mm c/c	8Ø @ 150mm c/c	M 20
First Storey			8Ø @ 100mm c/c	8Ø @ 150mm c/c	M 20

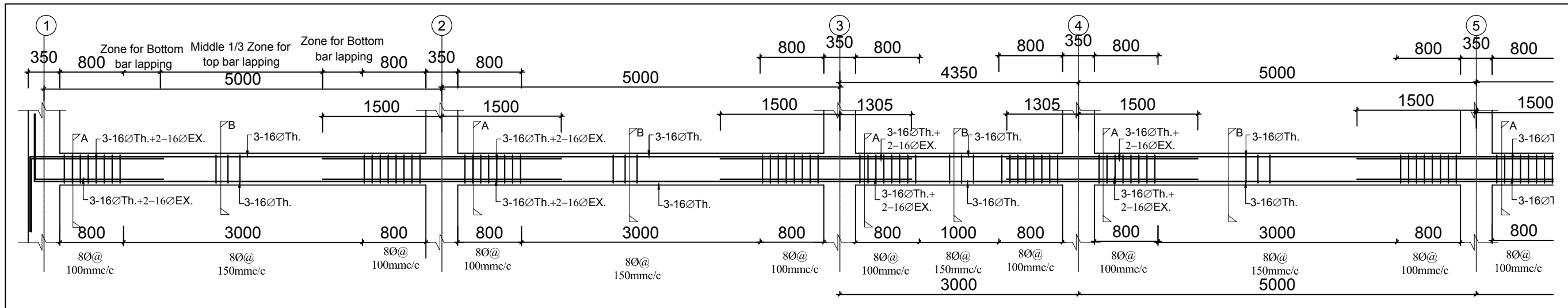
Revised
June 2016



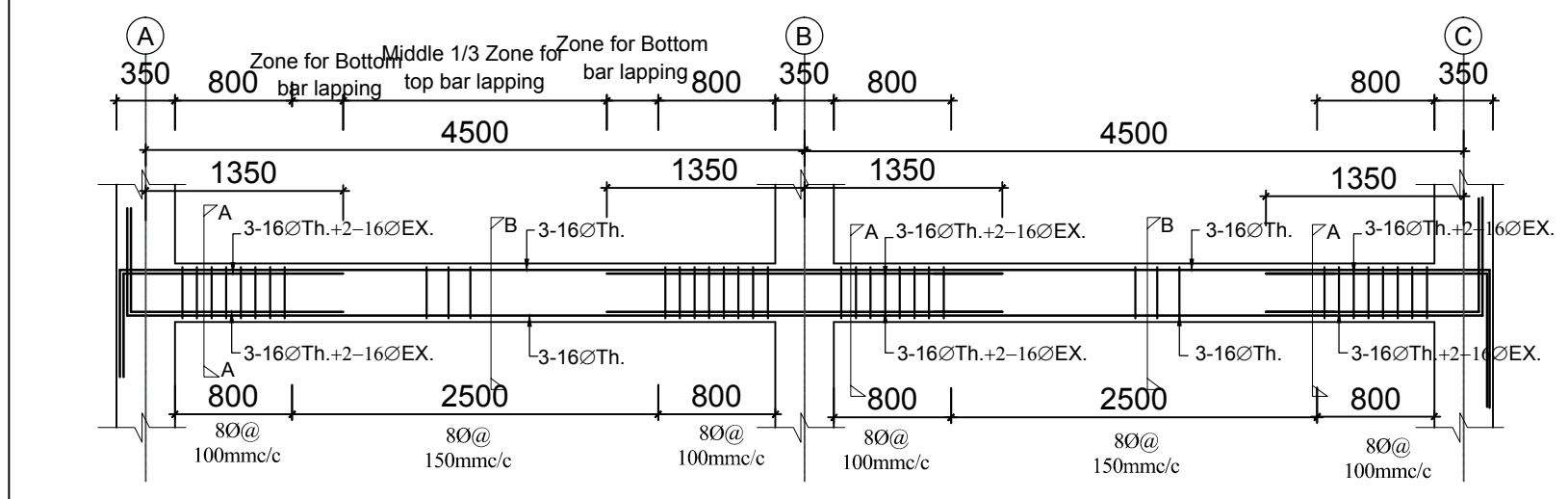
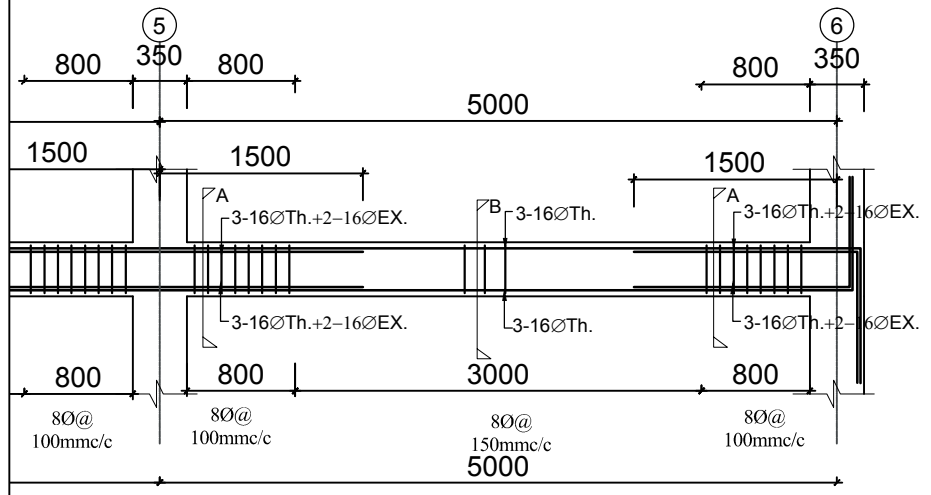
L-SECTION OF COLUMN WITH LAPPING



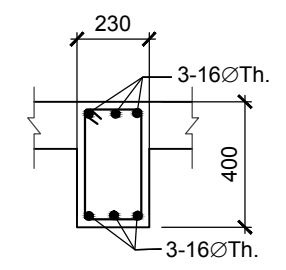
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	 <p>RND CENTRE PVT. LTD.</p>	TITLE :	Name: R.K.Mallik Designation: Structural Engineer NEC NO: 3200 Civil "A" Date:			AS SHOWN DATE : Jan 2016	A3	S-8 17
		BEAM LAYOUT PLAN						



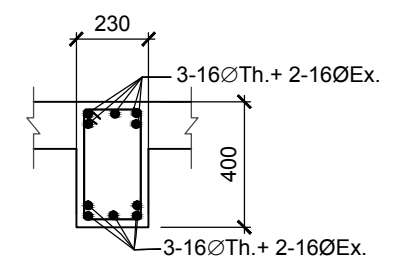
First Floor beam along grid A,B,C





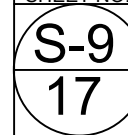
First floor beam along grid 1,2,3,4

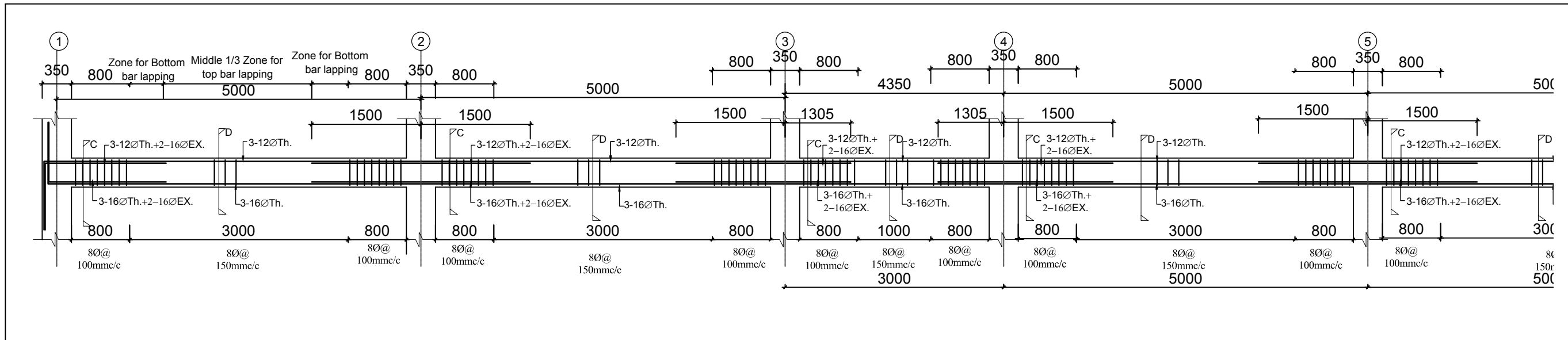


Section at B-B

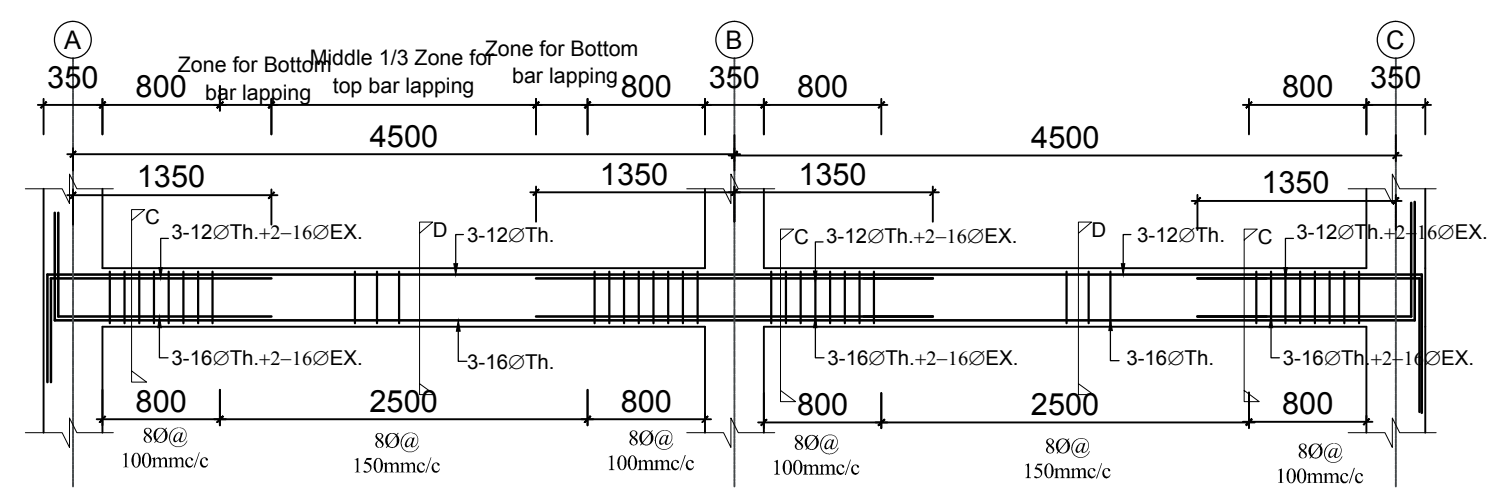
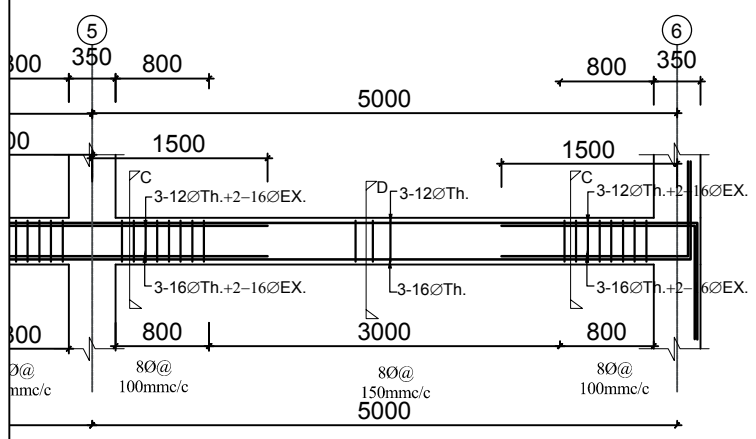


Section at A-A

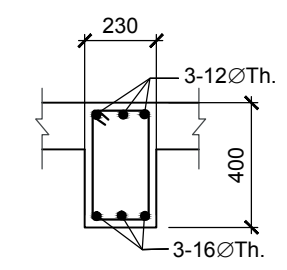
 <p>Department of Education Government of Nepal Ministry of Education Sanothimi, Bhaktapur</p>	CONSULTANT :	U-2b-alt-2, 4 classroom two story Building STRUCTURAL DETAILS	CONSULTANT	STRUCTURE BY:	APPROVED BY:	SCALE :	PAPER SIZE	SHEET NO. :
	 <p>RND CENTRE PVT. LTD.</p>	TITLE :	Name: R.K.Mallik			AS SHOWN	A3	
	BEAM DETAILS (First Floor Level)	Designation: Structural Engineer	DATE: Jan 2016					



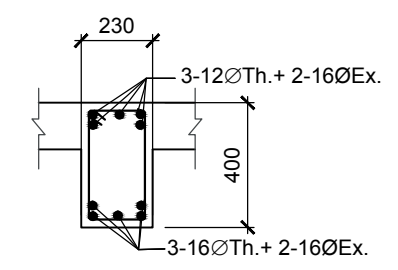
Second floor beam along grid A,B,C





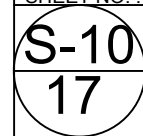
Second floor beam along grid 1,2,3,4

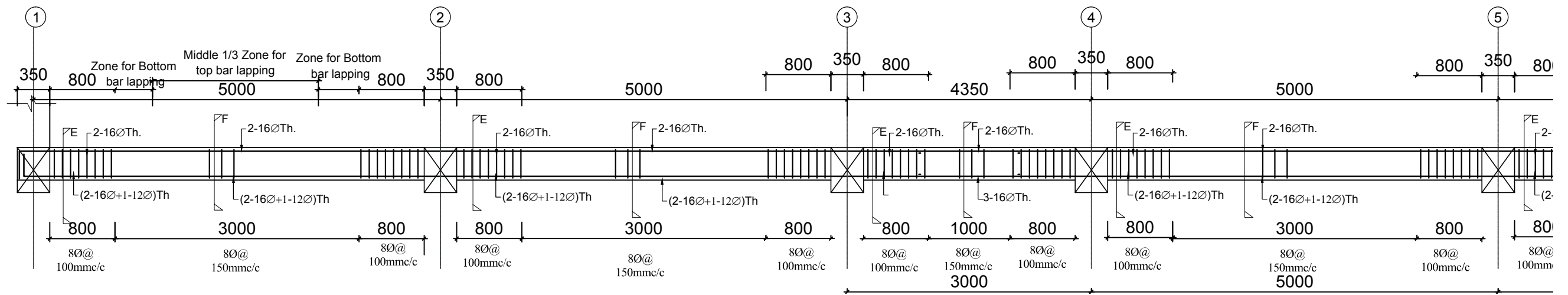


Section at D-D

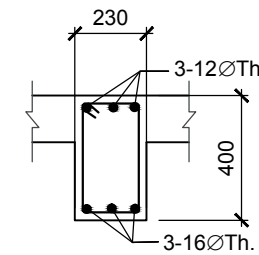
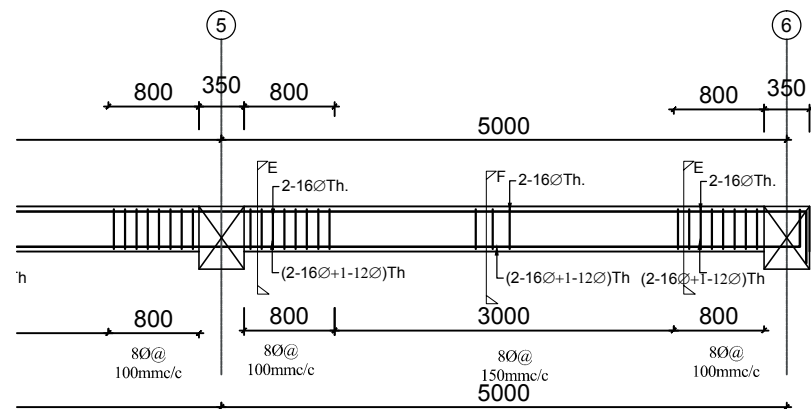


Section at C-C

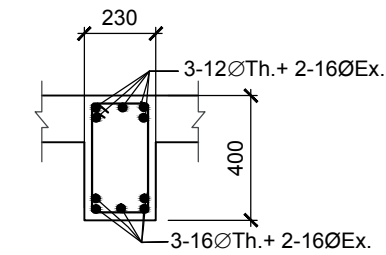
 <p>Department of Education Government of Nepal Ministry of Education Sanothimi, Bhaktapur</p>	CONSULTANT :	U-2b-alt-2, 4 classroom two story Building STRUCTURAL DETAILINGS	CONSULTANT	STRUCTURE BY:	APPROVED BY:	SCALE :	PAPER SIZE	SHEET NO. :
	 <p>RND CENTRE PVT. LTD.</p>	TITLE :	Name: R.K.Mallik		AS SHOWN	A3		
	BEAM DETAILS (2ND Floor Level)	Designation: Structural Engineer		DATE : Jan 2016				
			NEC NO: 3200 Civil "A"					
			Date:					





First Floor Secondary beam along grid B'-B'

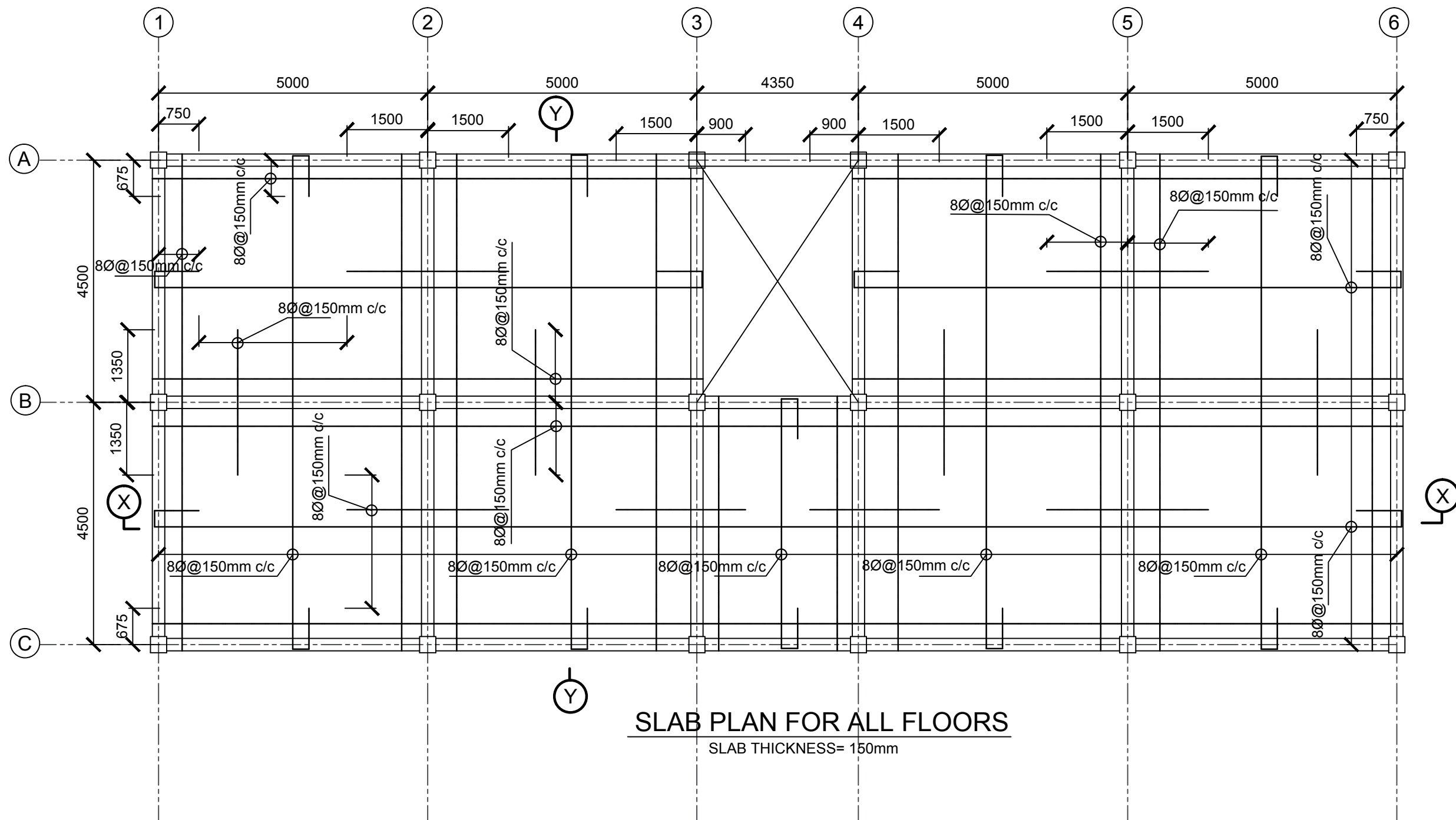


Section at D-D





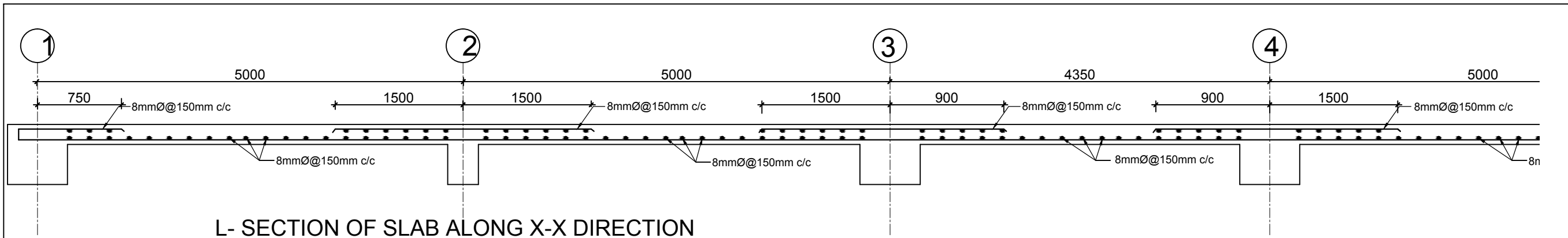
Section at C-C

 <p>Department of Education Government of Nepal Ministry of Education Sanothimi, Bhaktapur</p>	CONSULTANT :	U-2b-alt-2, 4 classroom two story Building STRUCTURAL DETAILINGS	CONSULTANT	STRUCTURE BY:	APPROVED BY:	SCALE :	PAPER SIZE	SHEET NO. :
	 <p>RND CENTRE PVT. LTD.</p>	TITLE :	Name: R.K.Mallik Designation: Structural Engineer NEC NO: 3200 Civil "A" Date:			AS SHOWN DATE : Jan 2016	A3	S-11 17

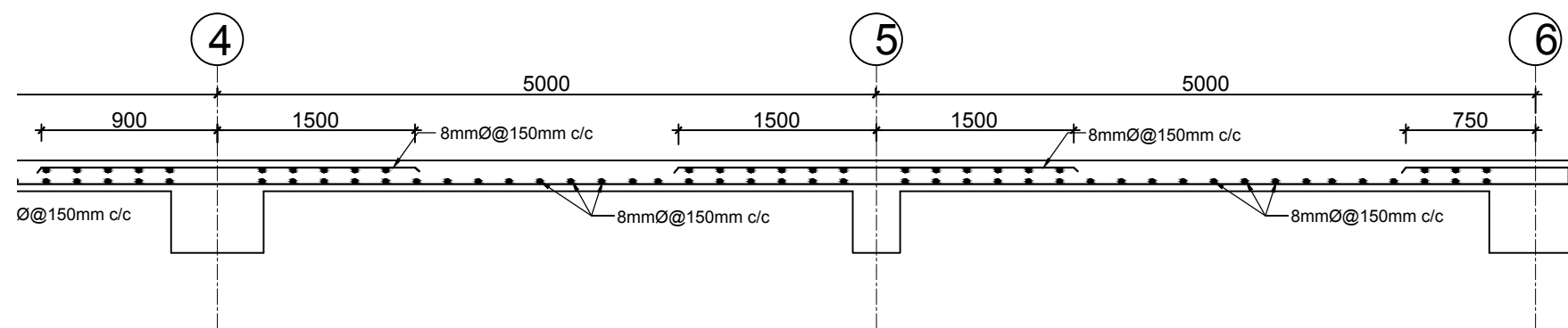


SLAB PLAN FOR ALL FLOORS
 SLAB THICKNESS= 150mm

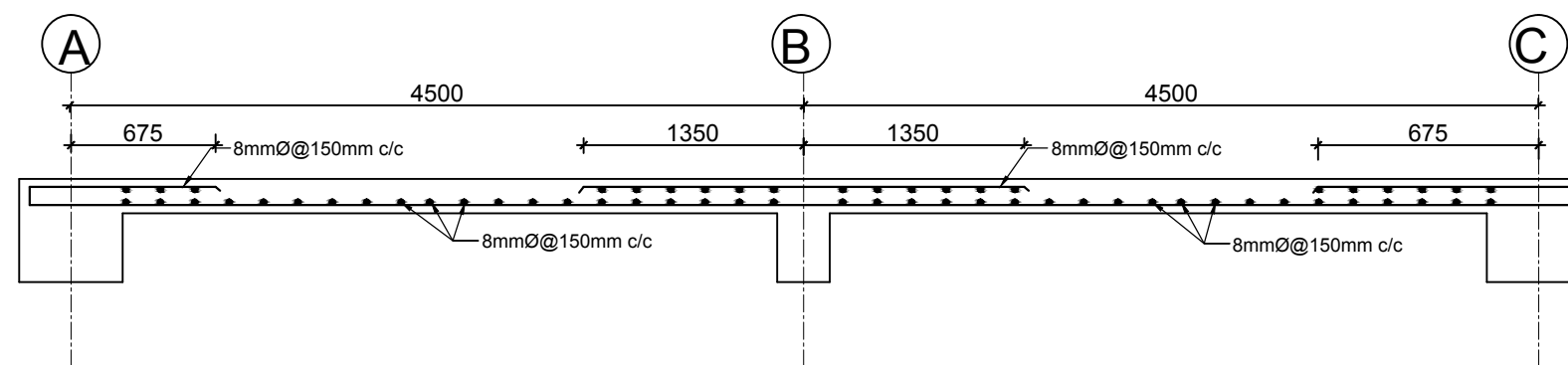
 <p align="center">Department of Education Government of Nepal Ministry of Education Sanothimi, Bhaktapur</p>	CONSULTANT :  RND CENTRE PVT. LTD.	U-2b-alt-2, 4 classroom two story Building STRUCTURAL DETAILS	CONSULTANT Name: R.K.Mallik Designation: Structural Engineer NEC NO: 3200 Civil "A" Date:	STRUCTURE BY: APPROVED BY:	SCALE : AS SHOWN DATE : Jan 2016	PAPER SIZE A3	SHEET NO. : <div style="border: 2px solid black; border-radius: 50%; padding: 10px; display: inline-block;"> S-12 17 </div>
	TITLE : SLAB DETAILS(First and 2ND Floor Level)						





L- SECTION OF SLAB ALONG X-X DIRECTION

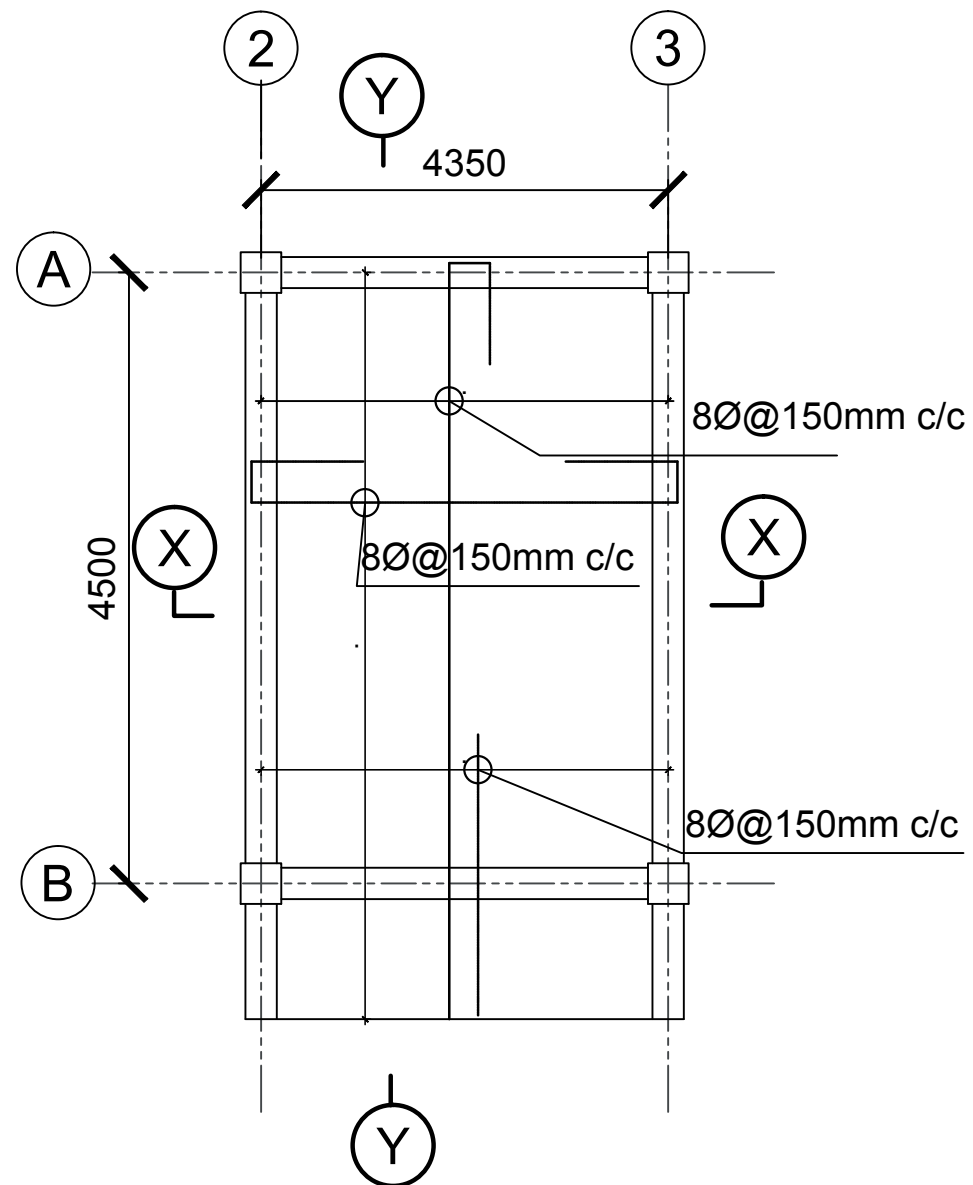


L- SECTION OF SLAB ALONG X-X DIRECTION



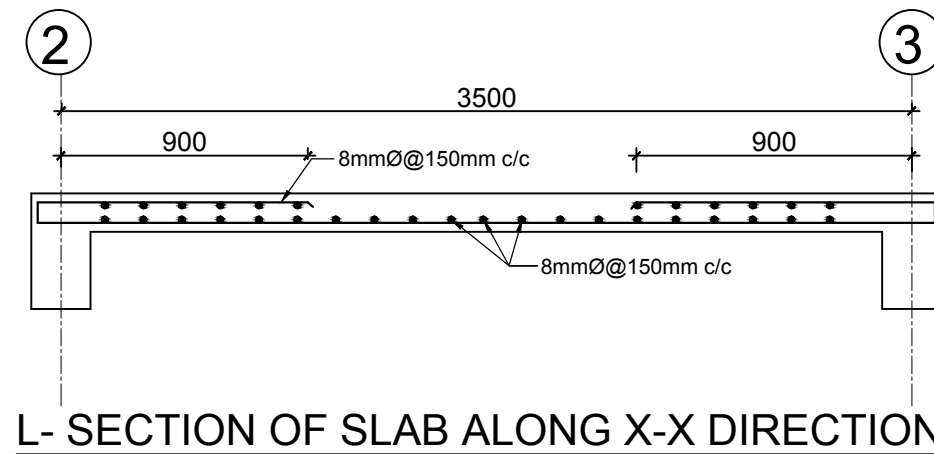
L- SECTION OF SLAB ALONG Y-Y DIRECTION

 <p>Department of Education Government of Nepal Ministry of Education Sanothimi, Bhaktapur</p>	<p>CONSULTANT :</p>  <p>RND CENTRE PVT. LTD.</p>	<p>U-2b-alt-2, 4 classroom two story Building STRUCTURAL DETAILINGS</p> <p>TITLE : SLAB DETAILS(First and 2ND Floor Level)</p>	CONSULTANT	STRUCTURE BY:	APPROVED BY:	SCALE :	PAPER SIZE	SHEET NO. :
			Name: R.K.Mallik		AS SHOWN	A3	S-13	
			Designation: Structural Engineer		DATE : Jan 2016			17
			NEC NO: 3200 Civil "A"					
			Date:					

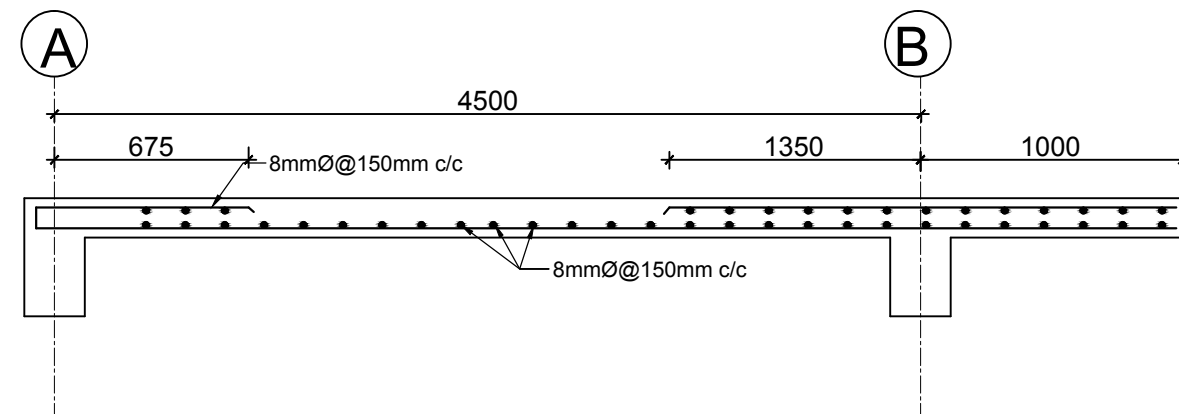


SLAB PLAN FOR STAIRCASE ROOF



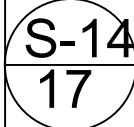
SLAB THICKNESS= 150mm

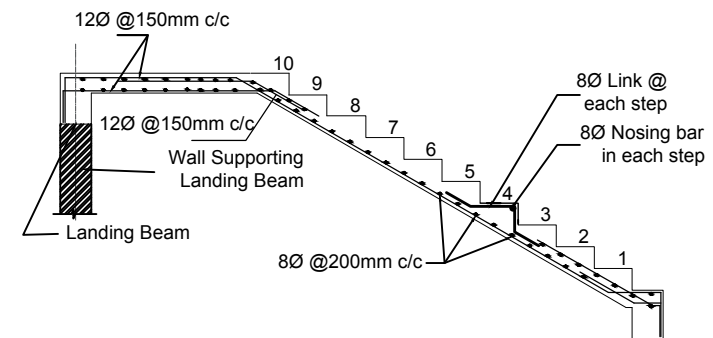
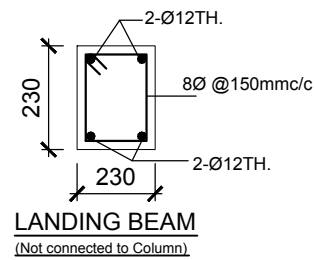
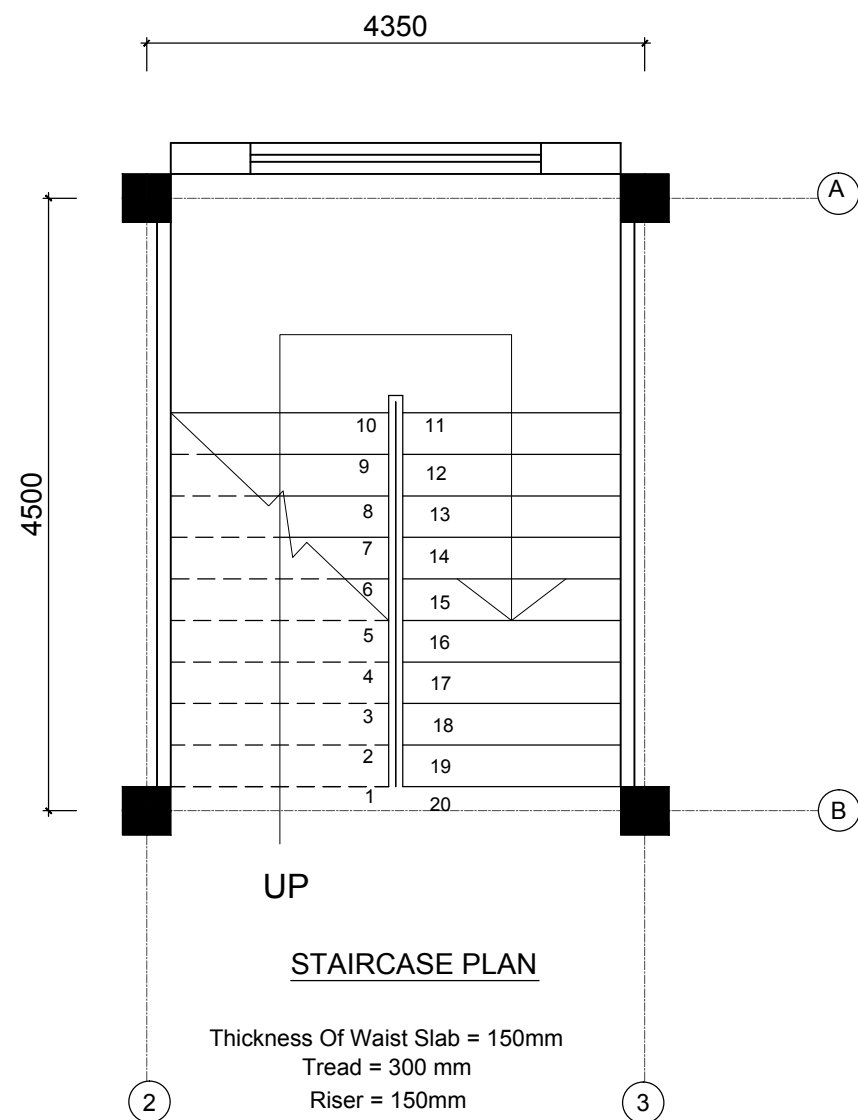


L- SECTION OF SLAB ALONG X-X DIRECTION

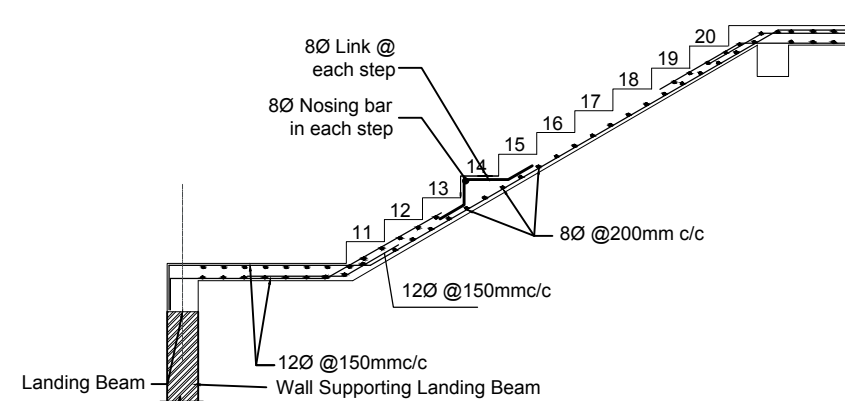


L- SECTION OF SLAB ALONG Y-Y DIRECTION



 <p>Department of Education Government of Nepal Ministry of Education Sanothimi, Bhaktapur</p>	CONSULTANT :	U-2b-alt-2, 4 classroom two story Building STRUCTURAL DETAILINGS	CONSULTANT	STRUCTURE BY:	APPROVED BY:	SCALE :	PAPER SIZE	SHEET NO. :
	 <p>RND CENTRE PVT. LTD.</p>	TITLE :	Name: R.K.Mallik		AS SHOWN	A3		
	SLAB DETAILS (First and Top Floor Level)	Designation: Structural Engineer	NEC NO: 3200 Civil "A"	DATE : Jan 2016				

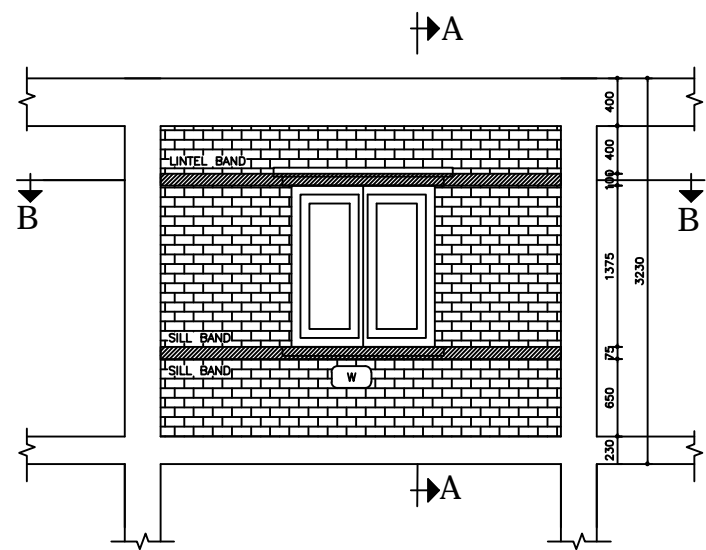


**REINFORCEMENT DETAILS
OF STAIRCASE FLIGHT-1**

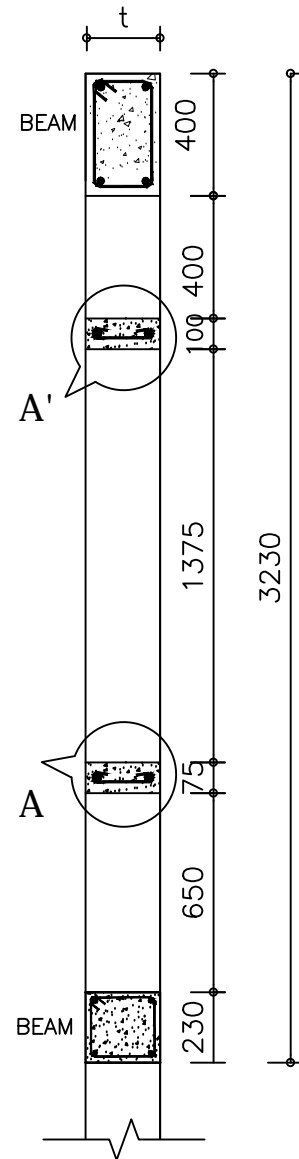
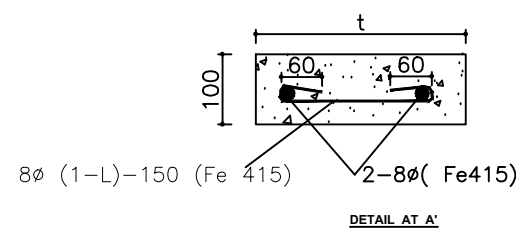
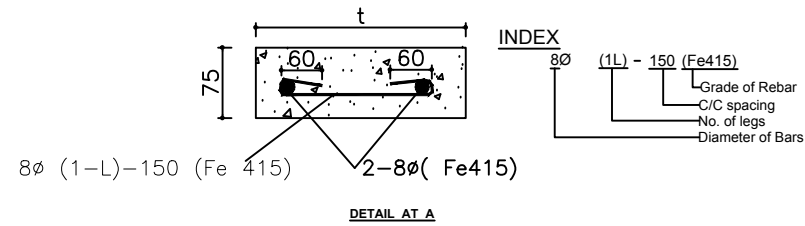
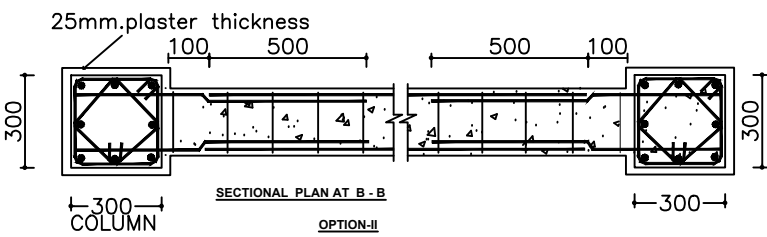
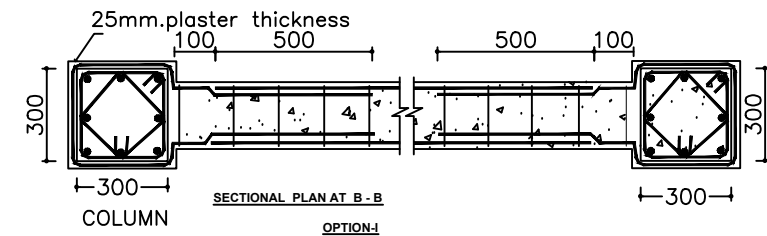


**REINFORCEMENT DETAILS OF
STAIRCASE FLIGHT-2**

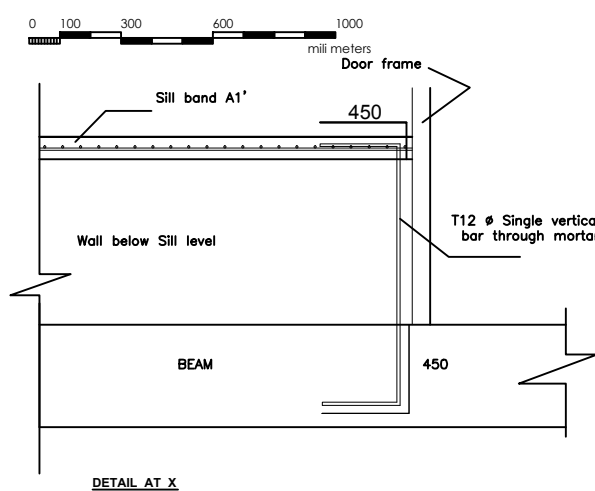
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	 <p>RND CENTRE PVT. LTD.</p>	TITLE :	Name: R.K.Mallik Designation: Structural Engineer NEC NO: 3200 Civil "A" Date:			AS SHOWN DATE : Jan 2016	A3	<div style="border: 2px solid black; border-radius: 50%; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> <div style="text-align: center;"> <p>S-15</p> <p>17</p> </div> </div>



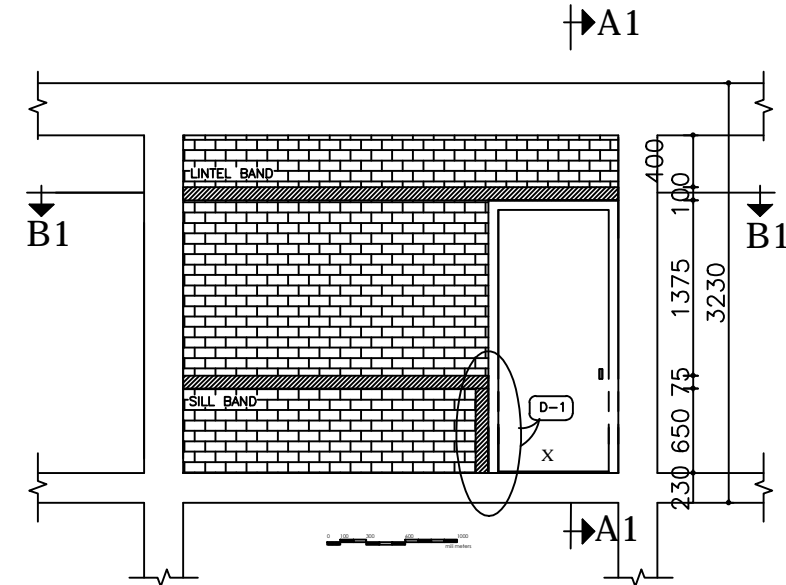
WALL WITH WINDOW



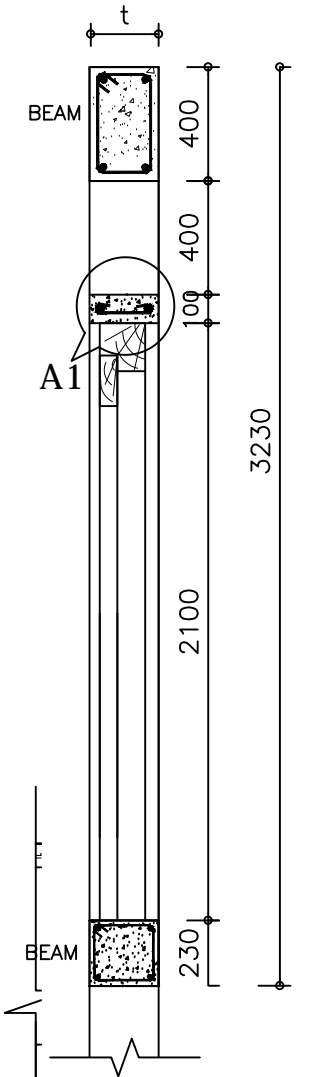
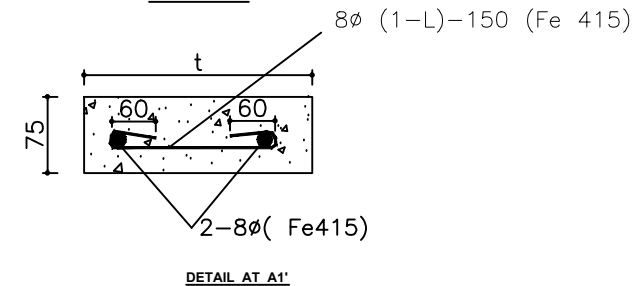
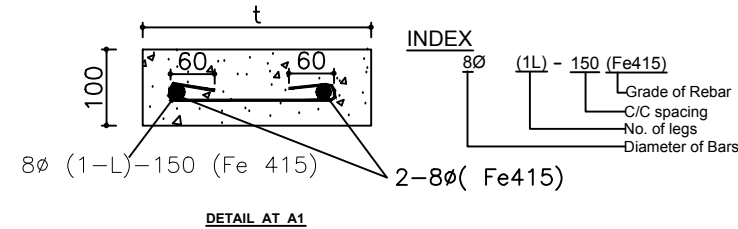
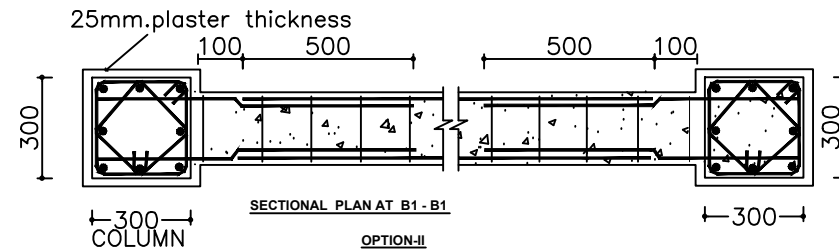
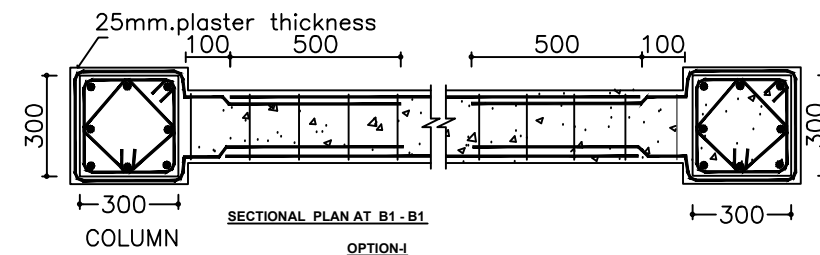
SECTION AT A - A



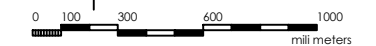
DETAIL AT X



WALL WITH DOOR



SECTION AT A1 - A1



0 100 300 600 1000 millimeters

INDEX 8Ø (1L) - 150 (Fe415) Grade of Rebar C/C spacing No. of legs Diameter of Bars

INDEX 8Ø (1L) - 150 (Fe 415) Grade of Rebar C/C spacing No. of legs Diameter of Bars

INDEX 8Ø (1L) - 150 (Fe 415) Grade of Rebar C/C spacing No. of legs Diameter of Bars


INDEX 8Ø (1L) - 150 (Fe 415) Grade of Rebar C/C spacing No. of legs Diameter of Bars

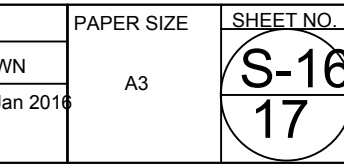
INDEX 8Ø (1L) - 150 (Fe 415) Grade of Rebar C/C spacing No. of legs Diameter of Bars

INDEX 8Ø (1L) - 150 (Fe 415) Grade of Rebar C/C spacing No. of legs Diameter of Bars


INDEX 8Ø (1L) - 150 (Fe 415) Grade of Rebar C/C spacing No. of legs Diameter of Bars

INDEX 8Ø (1L) - 150 (Fe 415) Grade of Rebar C/C spacing No. of legs Diameter of Bars

CONSULTANT :	U-2b-alt-1, 4 classroom two story Building STRUCTURAL DETAILINGS	CONSULTANT	STRUCTURE BY:	APPROVED BY:	SCALE :	PAPER SIZE	SHEET NO. :
 RND CENTRE PVT. LTD. Sanothimi, Bhaktapur	TITLE : BAND DETAILS	Name:	R.K.Mallik		AS SHOWN	A3	S-16 17
		Designation:	Structural Engineer		DATE : Jan 2016		
		NEC NO:	3200 Civil "A"				
		Date:					



Department of Education
Government of Nepal
Ministry of Education
Sanothimi, Bhaktapur

CONSULTANT :
 **RND CENTRE PVT. LTD.**
Sanothimi, Bhaktapur

U-2b-alt-1, 4 classroom two story Building
STRUCTURAL DETAILINGS
TITLE :
BAND DETAILS

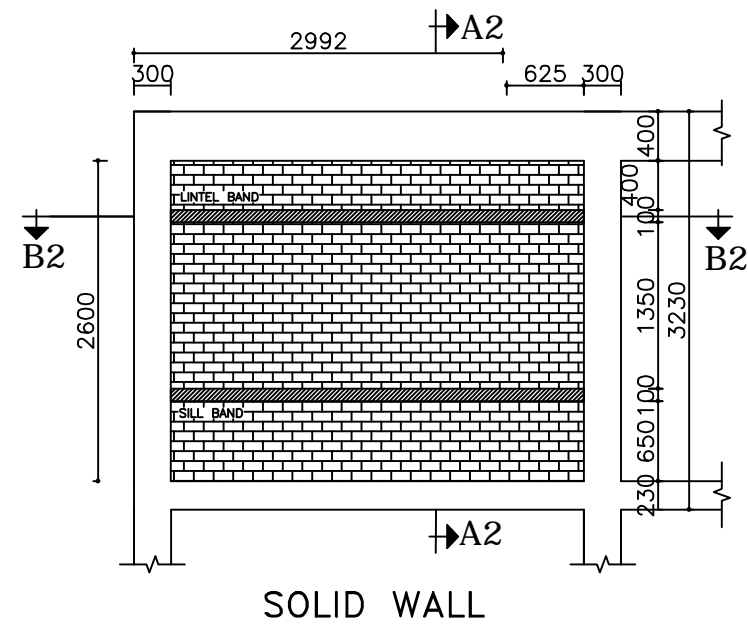
CONSULTANT
Name: R.K.Mallik
Designation: Structural Engineer
NEC NO: 3200 Civil "A"
Date:

STRUCTURE BY:
APPROVED BY:

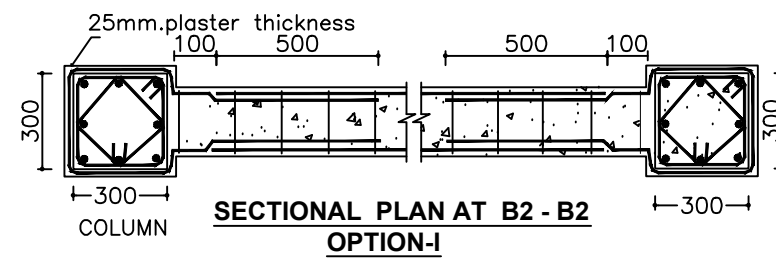
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AS SHOWN
DATE : Jan 2016

PAPER SIZE
A3

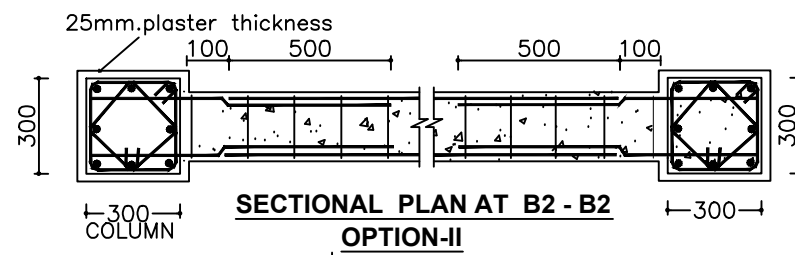
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S-16
17



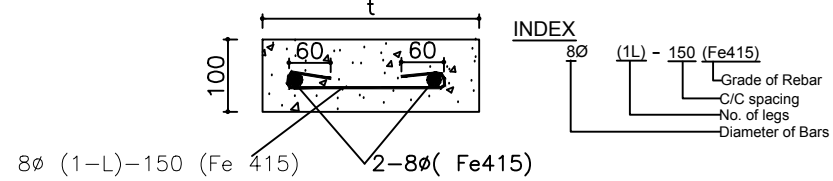
SOLID WALL



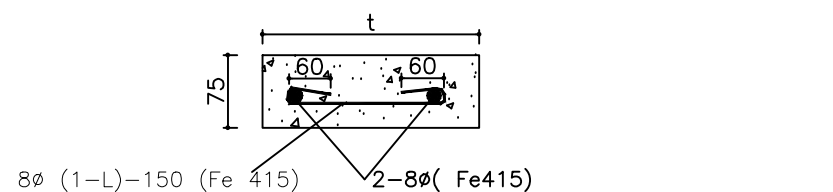
SECTIONAL PLAN AT B2 - B2
OPTION-I



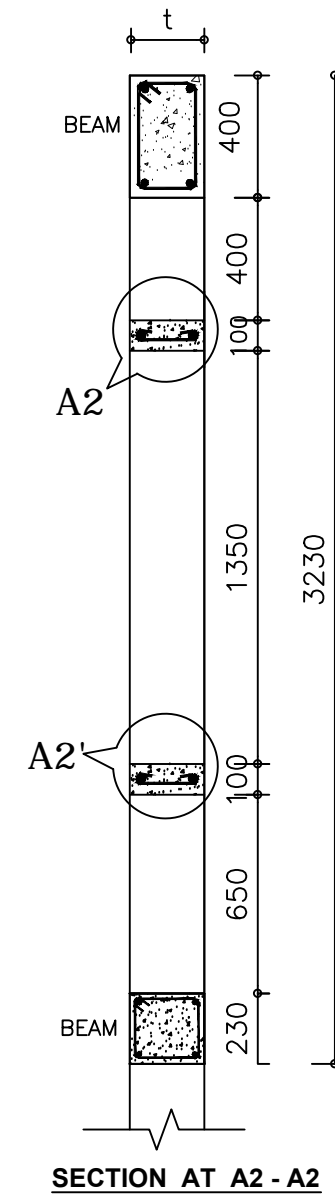
SECTIONAL PLAN AT B2 - B2
OPTION-II



DETAIL AT A2



DETAIL AT A2'



SECTION AT A2 - A2



Department of Education
Government of Nepal
Ministry of Education
Sanothimi, Bhaktapur

CONSULTANT :



RND CENTRE PVT. LTD.

U-2b-alt-1, 4 classroom two story Building
STRUCTURAL DETAILINGS

TITLE :
BAND DETAILS

CONSULTANT

Name:

Designation:

NEC NO:

Date:

STRUCTURE BY:

Name: R.K.Mallik

Designation: Structural Engineer

NEC NO: 3200 Civil "A"

Date:

APPROVED BY:

SCALE :

AS SHOWN

DATE : Jan 2016

PAPER SIZE

A3

SHEET NO. :

S-17
17