

GOVERNMENT OF NEPAL
MINISTRY OF EDUCATION, SCIENCE & TECHNOLOGY
CENTER FOR EDUCATION AND HUMAN RESOURCE DEVELOPMENT
SANOTHIMI, BHAKTAPUR, NEPAL

ARCHITECTURAL, STRUCTURAL, ELECTRICAL AND SANITARY DRAWING
TYPE DESIGN FOR MODEL AND BIG SCHOOL,
Contract ID: [CEHRD/SESP/SQ/Consultancy/05/2079/080]

FEBRUARY 2023



Government of Nepal
Ministry of Education, Science & Technology
Center for Education and Human Resource Development
Sanothimi, Bhaktapur, Nepal

PREPARE SCHOOL BUILDING TYPE DESIGN FOR MODEL AND BIG SCHOOL

Contract ID: CEHRD/SESP/SQ/Consultancy/05/2079/080

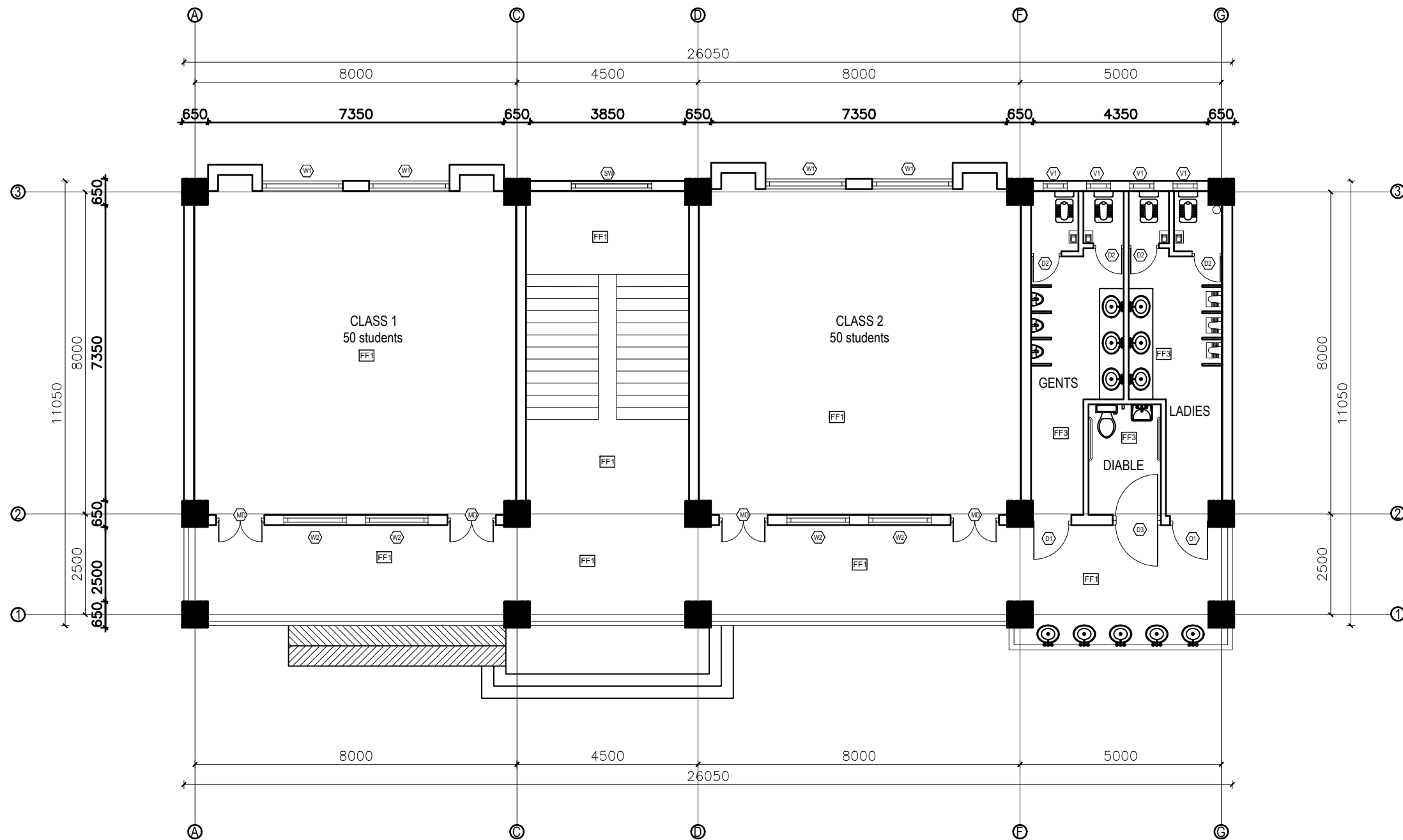
DETAIL DESIGN AND DRAWING

**3 STORY@6 ROOM WITH
(TOILET, WASH ROOM, CHANGING ROOM & BOOK CORNER)**

SUBMITTED BY:
A.S.K. ENGINEERING CONSULTANCY PVT. LTD

FEBRUARY 2023

ARCHITECTURAL DRAWING



GROUND FLOOR PLAN


FLOOR AREA: 290.012 sq.m

NOTES:

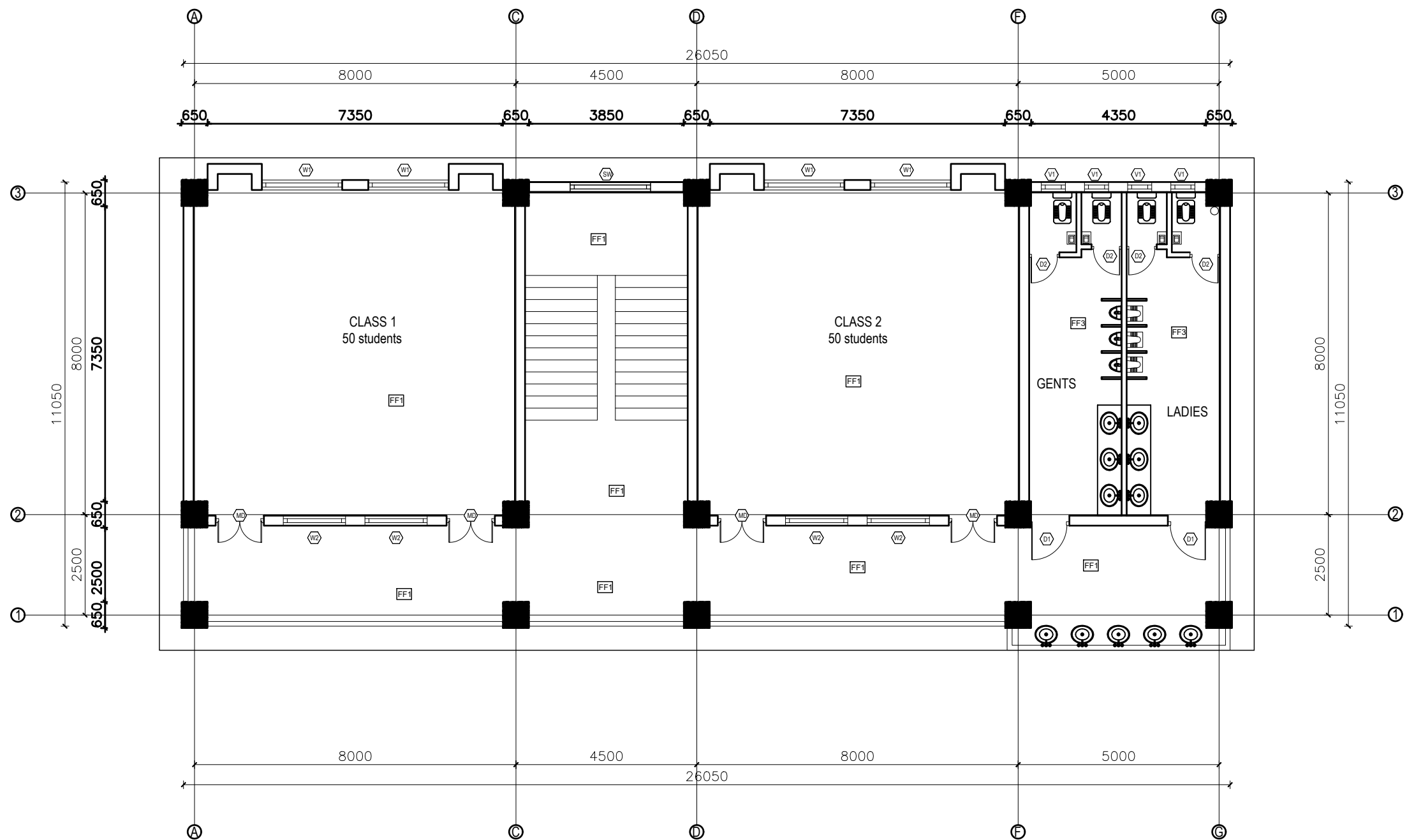
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2. Architectural drawing should be read in conjunction with Structural, Sanitary and Electrical drawings.
3. Site Engineer to notify the consultant if any discrepancy in dimensions found in drawings as per the site condition.
4. Sill and Lintel dimensions are measured from the Slab Lvl.
5. Dimensions are excluding the plaster/POP thickness.

FINISHING DETAILS:

FF1	38 mm PCC (M15) with 1:1 cement punning with floor hardener (Dreitop FH, mapetop, Sika Chapdur or equivalent)
FF2	50 mm PCC (M15) with 1:1 cement punning in a 600X600 thread cut grid with floor hardener (Dreitop FH, mapetop, Sika Chapdur or equivalent) and water proofing (safe-crete or equivalent)
FF3	6 mm thick porcelain non-glaze tile with 20 mm cement sand mortar (1:4)

CLIENT		PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM		SHEET NO. AR - 01	REVISION NO. R-00
	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Big and Model School		A.S.K. ENGINEERING CONSULTANCY PVT.LTD.	ENGINEER:		STRUCTURE ER. :	
					ARCHITECT:		CHECKED:	
					DRAWN :		APPROVED:	
					SCALE : 1:120	PAPER SIZE : A3	DATE: FEBRUARY, 2023	
					DWG CODE. 3S6R - BIG & MODEL			


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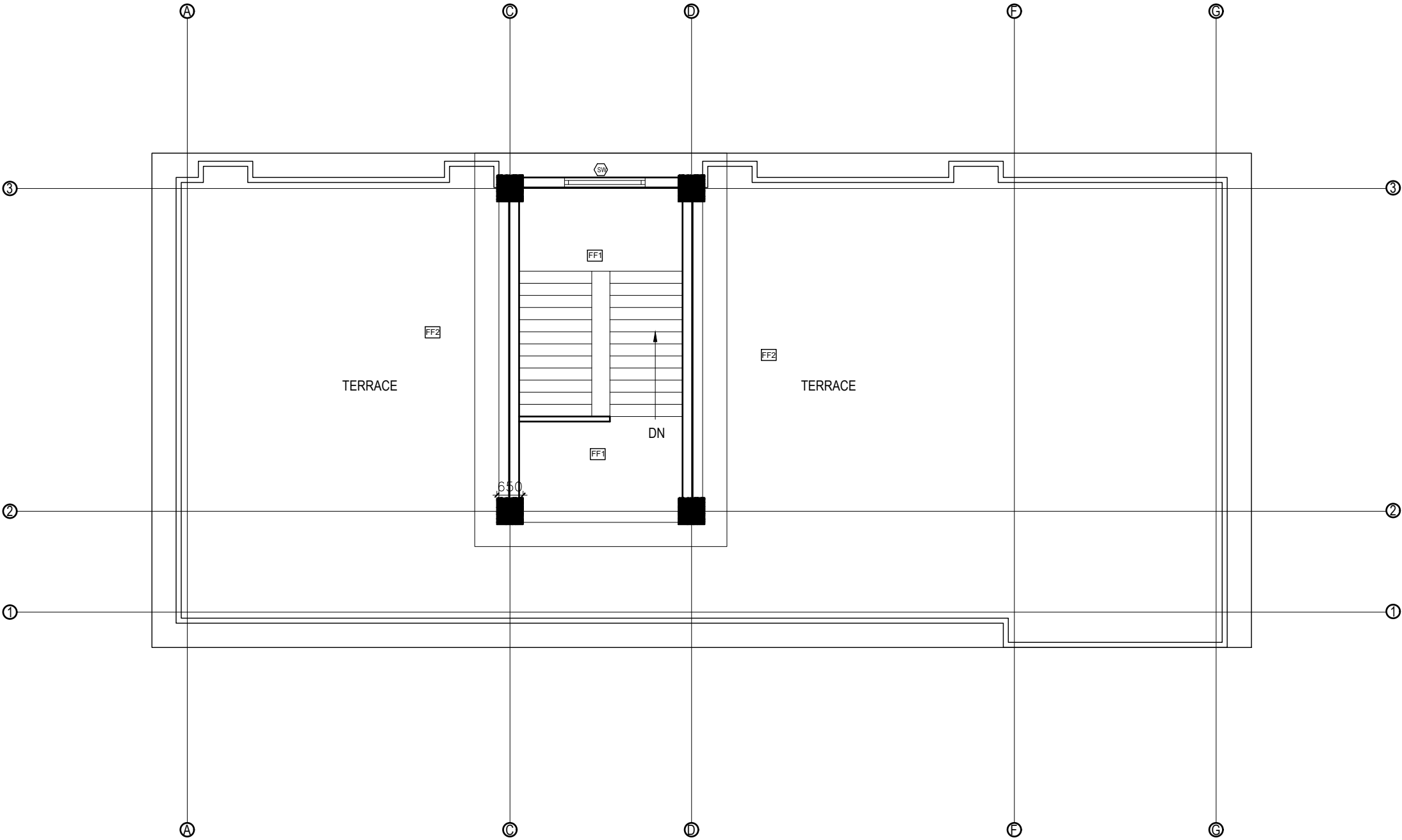
FIRST & SECOND FLOOR PLAN
FLOOR AREA: 290.012 sq.m

FINISHING DETAILS:

FF1	38 mm PCC (M15) with 1:1 cement punning with floor hardener (Dreitol FH, mapetop, Sika Chapdur or equivalent)
FF2	50 mm PCC (M15) with 1:1 cement punning in a 600X600 thread cut grid with floor hardener (Dreitol FH, mapetop, Sika Chapdur or equivalent) and water proofing (safe-crete or equivalent)
FF3	6 mm thick porcelain non-glaze tile with 20 mm cement sand mortar (1:4)

CLIENT		PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM			SHEET NO. AR - 02	REVISION NO. R-00
	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Big and Model School		A.S.K. ENGINEERING CONSULTANCY PVT.LTD.	ENGINEER:		STRUCTURE ER. :		DWG CODE. 3S6R - BIG & MODEL
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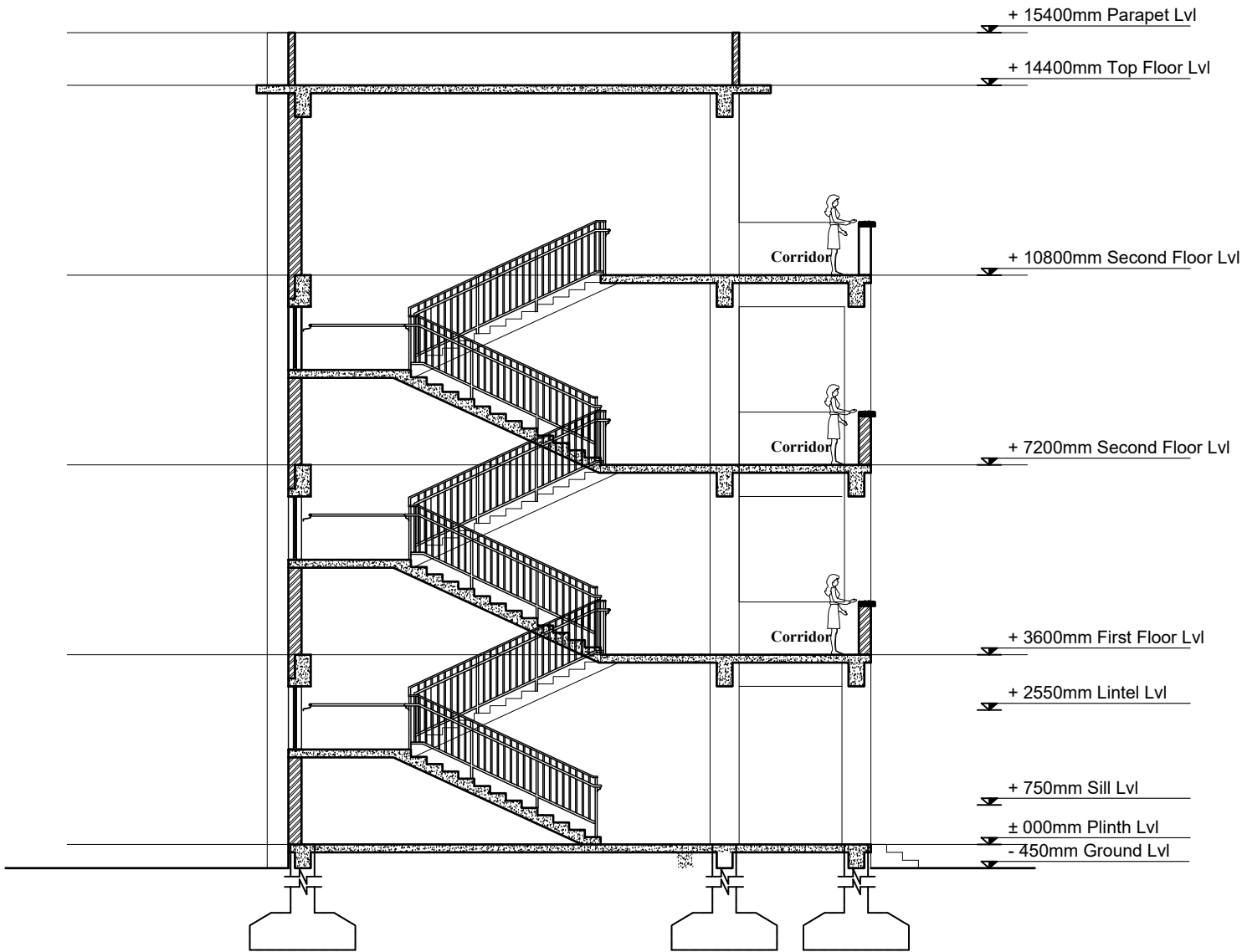
TOP FLOOR PLAN
FLOOR AREA: 43.17 sq.m

FINISHING DETAILS:

FF1	38 mm PCC (M15) with 1:1 cement punning with floor hardener (Dreitop FH, mapetop, Sika Chapdur or equivalent)
FF2	50 mm PCC (M15) with 1:1 cement punning in a 600X600 thread cut grid with floor hardener (Dreitop FH, mapetop, Sika Chapdur or equivalent) and water proofing (safe-crete or equivalent)
FF3	6 mm thick porcelain non-glaze tile with 20 mm cement sand mortar (1:4)

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 <div>Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal</div>	Prepare School Building Type Design for Big and Model School		A.S.K. ENGINEERING CONSULTANCY PVT.LTD.	ENGINEER:	STRUCTURE ER. :	DWG CODE. 3S6R - BIG & MODEL	
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OPENING SCHEDULE

S.N.	SYMBOL	SIZES	G.F.	F.F.	S.F.	TOTAL	SILL HT.	REMARKS
1.	MD	1200 x 2550	4	4	4	12	-	
2.	D1	1000 x 2550	2	2	2	6	-	
3.	D2	750 x 2100	4	4	4	12	-	
4.	D3	1200 x 2550	1			1	-	
5.	W1	2000 x 1800	4	4	4	12	750 MM	
6.	W2	1550 x 1800	2	2	2	6	750 MM	
7.	SW	2000 x 1200	1	1		2	1530 MM	
8.	V1	600 x 600	4	4	4	12	1800 MM	


SECTION AT A-A

CLIENT		PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM			SHEET NO. AR - 04	REVISION NO. R-00
	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Big and Model School		A.S.K. ENGINEERING CONSULTANCY PVT.LTD.	ENGINEER:		STRUCTURE ER. :	DWG CODE. 3S6R - BIG & MODEL	
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					DRAWN :		APPROVED:		
					SCALE : 1:120	PAPER SIZE : A3	DATE: FEBRUARY, 2023		

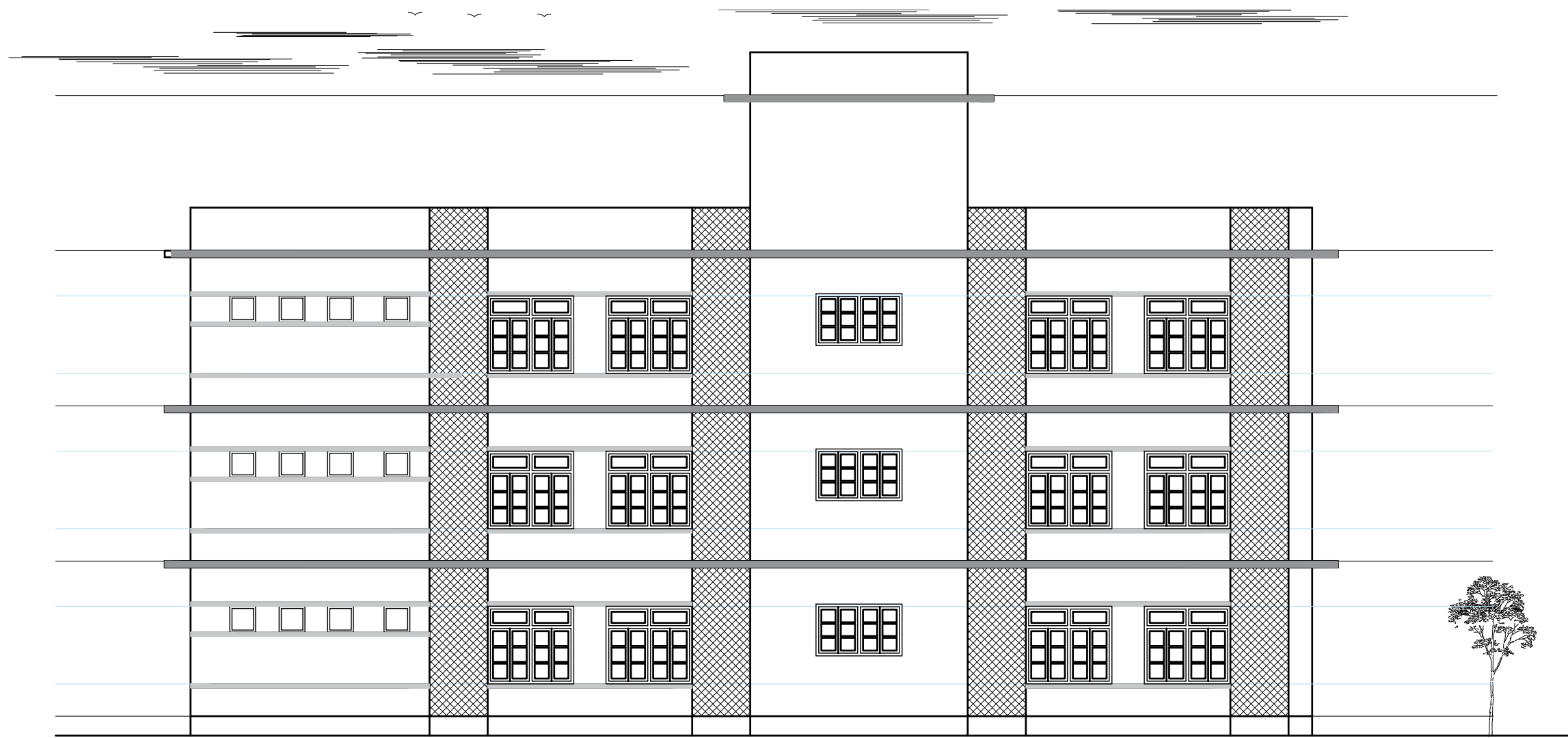
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FRONT ELEVATION

CLIENT		PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM		SHEET NO. AR - 05	REVISION NO. R-00	
	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Big and Model School		A.S.K. ENGINEERING CONSULTANCY PVT.LTD.	ENGINEER:		STRUCTURE ER. :		
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								DWG CODE. 3S6R - BIG & MODEL	

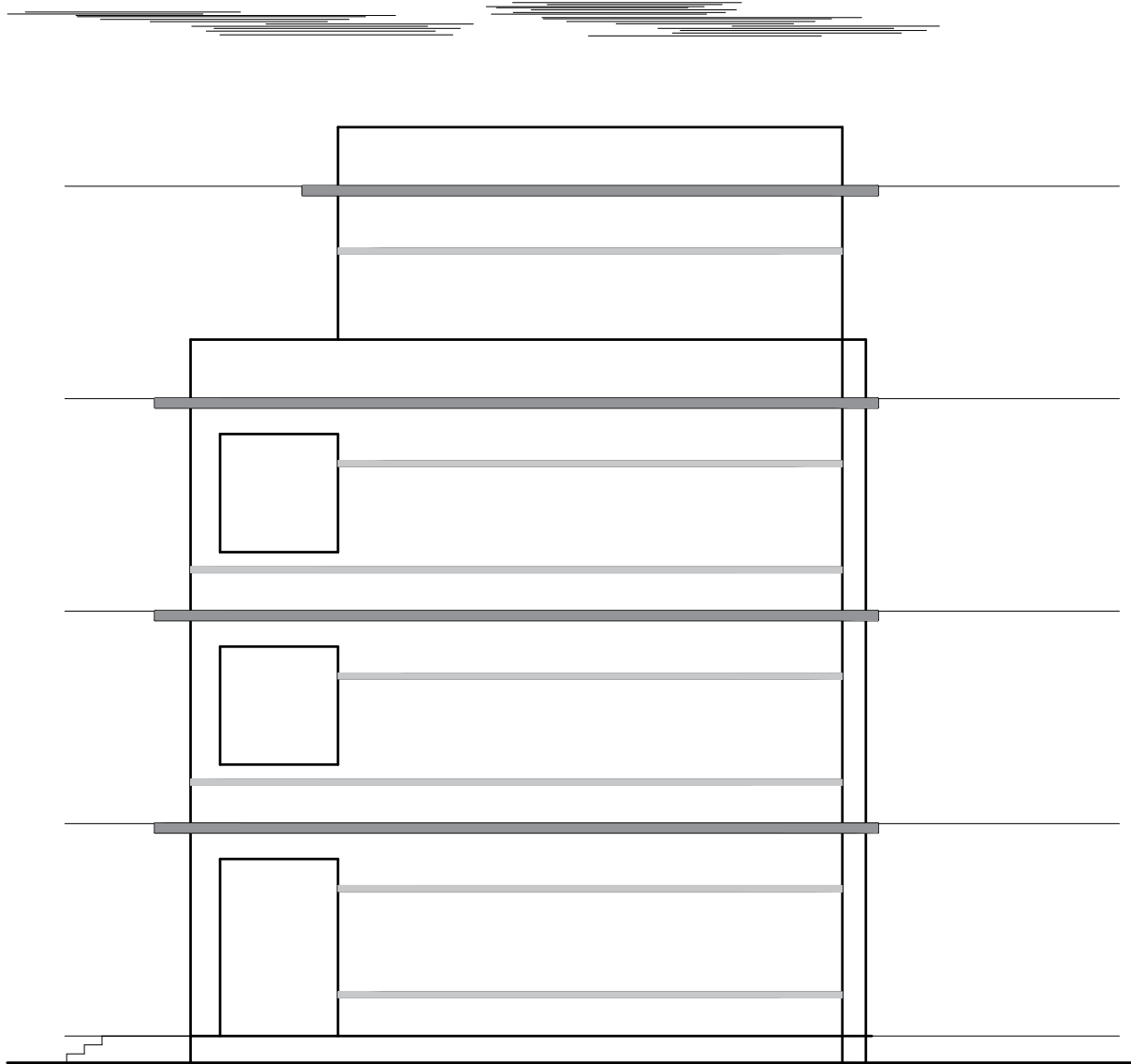
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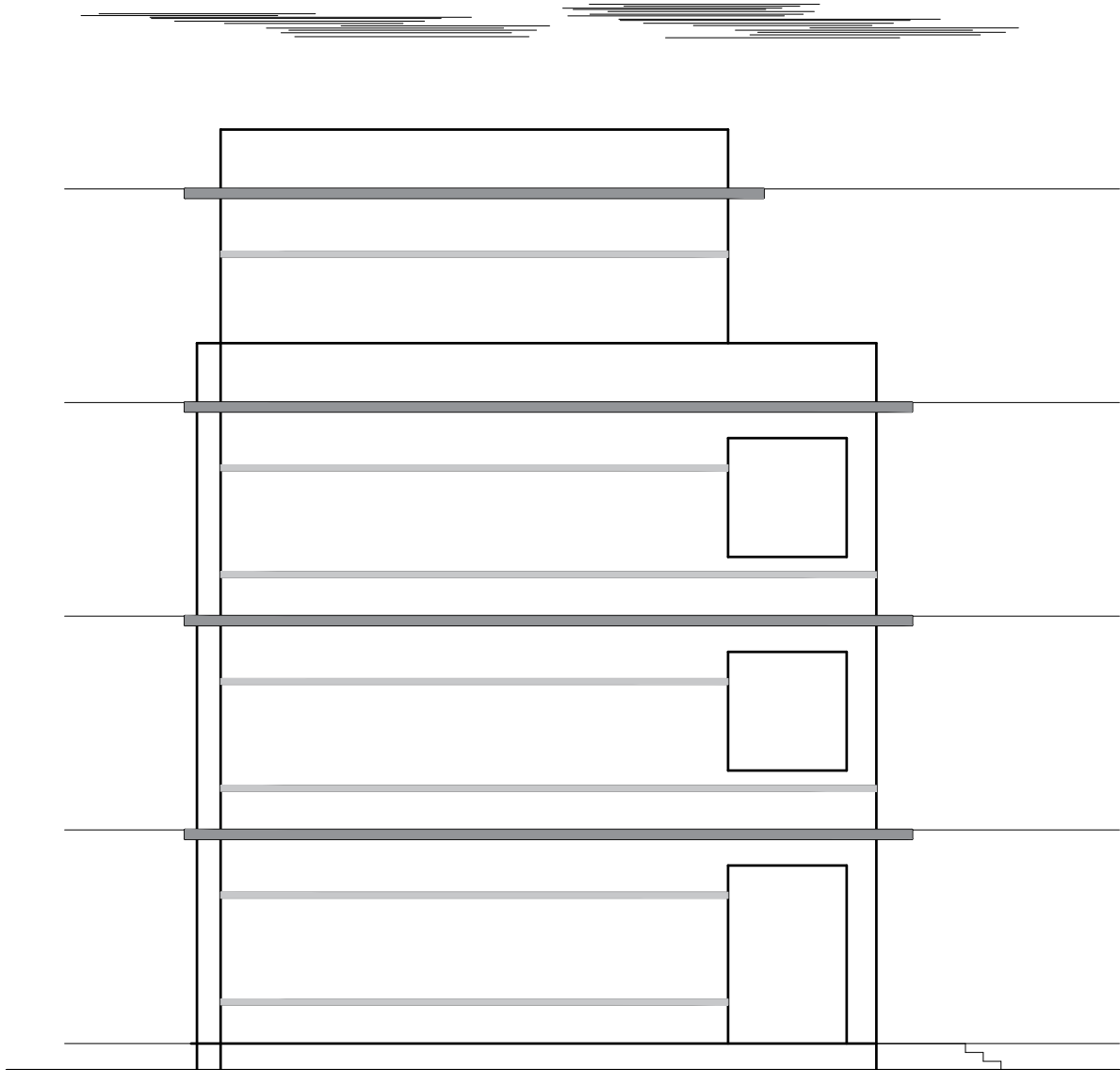
BACK ELEVATION

CLIENT		PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM		SHEET NO. AR - 06	REVISION NO. R-00
	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Big and Model School		A.S.K. ENGINEERING CONSULTANCY PVT.LTD.	ENGINEER:		STRUCTURE ER. :	
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SIDE-1 ELEVATION




SIDE-2 ELEVATION

CLIENT		PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM			SHEET NO. AR - 07	REVISION NO. R-00
	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Big and Model School		A.S.K. ENGINEERING CONSULTANCY PVT.LTD.	ENGINEER:		STRUCTURE ER. :		DWG CODE. 3S6R - BIG & MODEL
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-
- 5.
- RAMP PLAN
- LVL ±000
- 5275
- RAMP (SLOPE 1:12)
- UP
- LVL -45
- B
- B



CLIENT		PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM		SHEET NO. AR - 08	REVISION NO. R-00
 <div>Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal</div>	Prepare School Building Type Design for Big and Model School		A.S.K. ENGINEERING CONSULTANCY PVT.LTD.	ENGINEER:		STRUCTURE ER. :	DWG CODE. 3S6R - BIG & MODEL	
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STRUCTURE

DRAWING

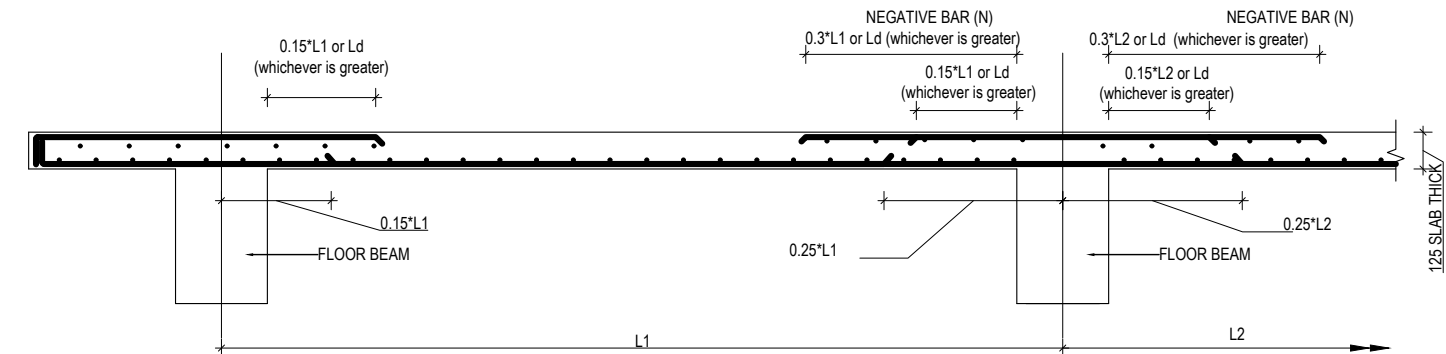
SN.	DRAWING LIST
1.	GENERAL NOTES
3.	FOOTING DETAIL FOR 100kN/m2
4.	TYPICAL FLOORING DETAIL
5.	SITE SPECIFIC DRAWING
6.	TYPICAL DETAILS OF FOUNDATION WALL
7.	COLUMN DETAIL
8.	BEAM PLAN
9.	BEAM DETAIL
10.	SLAB DETAIL
11.	STAIRCASE DETAIL
12.	BAND DETAIL
13.	RAILING DETAIL

GENERAL NOTES:

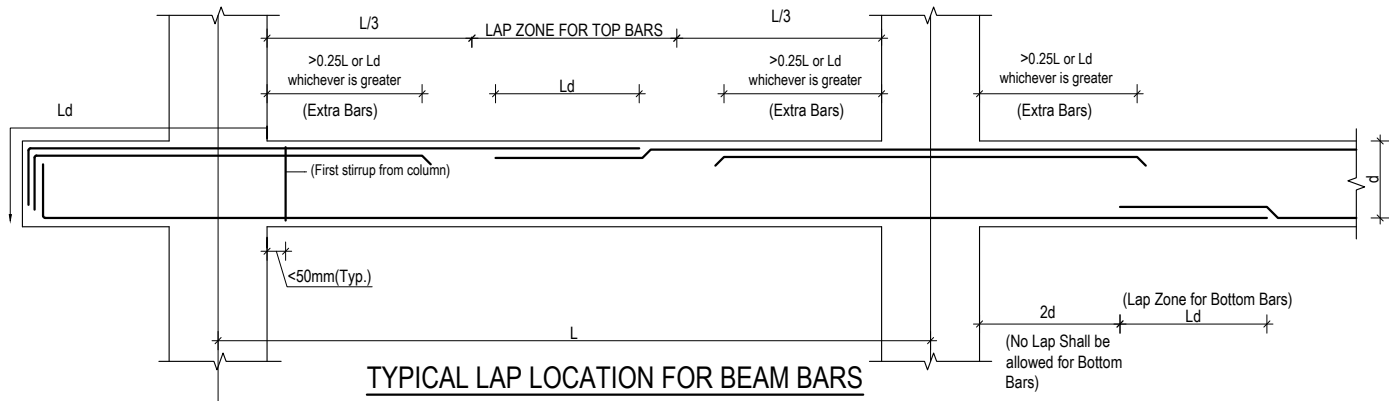
1. USE M25 GRADE CONCRETE FOR SLAB, BEAM, COLUMN, FOUNDATION, SILL & LINTEL BANDS (ALL RCC WORKS)
2. USE Fe500 GRADE STEEL ($f_y=500\text{N/mm}^2$)
3. CLEAR COVER TO BARS
- a. FOR CONCRETE MEMBERS IN CONTACT WITH SOIL = MIN 50mm
- b. FOR COLUMN (FROM FACE TO LATERAL TIES) = 40mm
- c. FOR BEAMS (FROM FACE TO LATERAL STIRRUPS) = 25mm
- d. FOR OUTER BARS IN SLAB = 15mm
- e. FOR STAIRCASE = 20mm
4. BARS IN COLUMNS SHALL BE SPLICED ONLY AT MID HEIGHT OF COLUMN.
5. BARS SPLICING IN BEAM SHALL BE AVOIDED IN THE SPAN WHERE INTERMEDIATE BEAM IS CONNECTED AND SHALL BE ONLY AS SHOWN IN DWG.
6. DEVELOPMENT / LAP LENGTH (L_d) FOR BARS.

BAR DIA-(mm)	8	10	12	16	20	25
FOR M25 L_d	400	490	590	790	980	1230

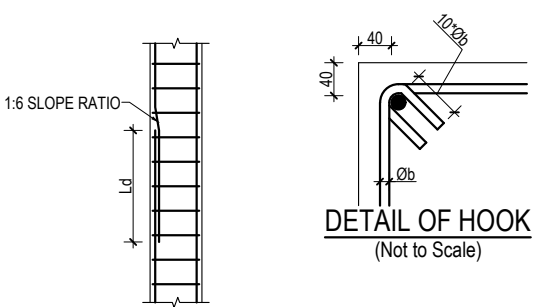
7. TEMP./DISTRIBUTION REINFORCEMENT FOR SLAB - TMT 8@ 200 C/C
8. CLEAR VERTICAL DISTANCE BETWEEN TWO ROWS (LAYERS) OF BARS=25mm OR MAXIMUM SIZE OF REBAR
9. PROVIDE STIRRUPS OR TIES AT MIN 150 C/C AT LAP LOCATIONS IN BEAM AND AT MIN 100 C/C AT LAP LOCATION IN COLUMNS.
10. FOUNDATION
- 10.1 FOUNDATION DESIGN HAVE BEEN PROVIDED FOR SAFE BEARING CAPACITY OF 100KN/m²,150kN/m² ,200KN/m².
- 10.2 IF SAFE BEARING CAPACITY OF SOIL IS FOUND LESS THAN 100KN/m², SPECIAL STUDY FOR FOUNDATION DESIGN IS REQUIRED.
11. H = CLEAR SPAN OF FLOOR.
12. D=DEPTH OF BEAM
13. d=EFFECTIVE DEPTH OF BEAM
14. L_d =DEVELOPMENT LENGHT



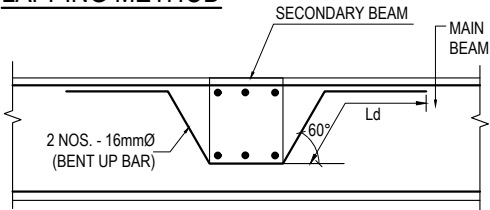
TYPICAL DETAIL FOR SLAB BARS



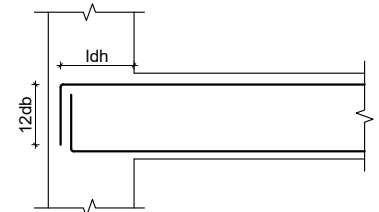
TYPICAL LAP LOCATION FOR BEAM BARS
(STIRRUPS NOT SHOWN FOR CLARITY)



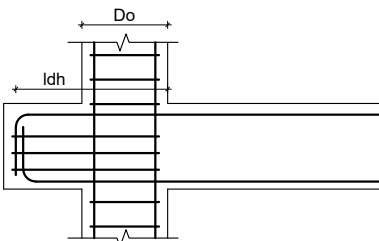
LAPPING METHOD



CONNECTION DETAIL BETWEEN
MAIN & SECONDARY BEAM



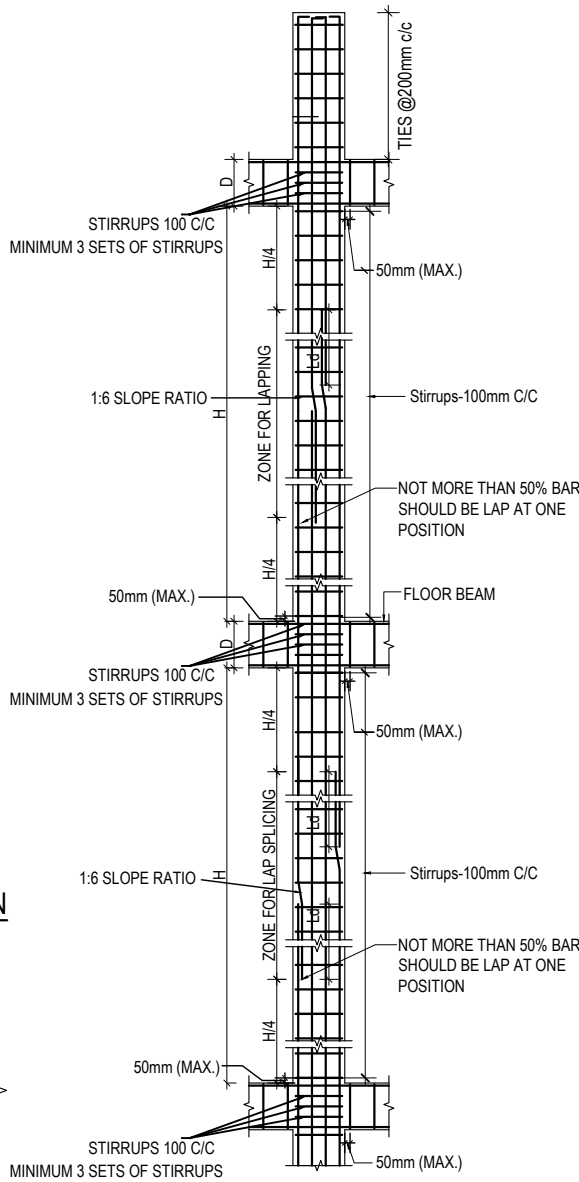
ANCHORAGE OF BEAM
LONGITUDINAL BAR IN COLUMN



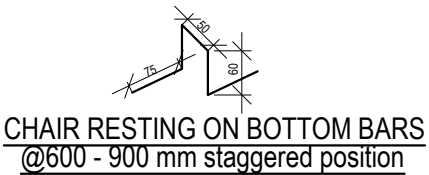
PPROVISION OF BEAM STUB

f_y N/mm ²	f_{ck} N/mm ²	d_b mm	L_d mm	$12d_b$ mm
500	20	12	277	144
500	25	12	248	144
500	20	16	369	192
500	25	16	330	192
500	20	20	462	240
500	25	20	413	240
500	20	25	577	300
500	25	25	516	300


f_y = yield strength of steel
 f_{ck} = Characteristic Compressive strength of concrete
 d_b = diameter of largest longitudinal bar in beam in mm

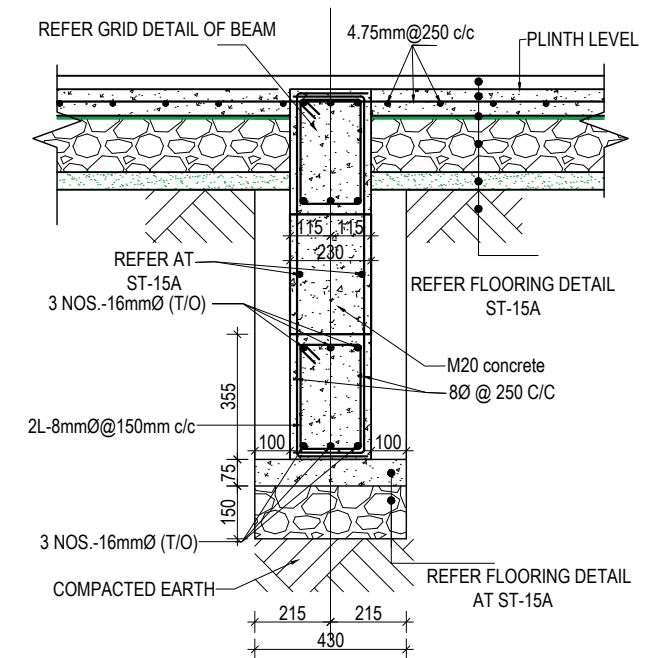
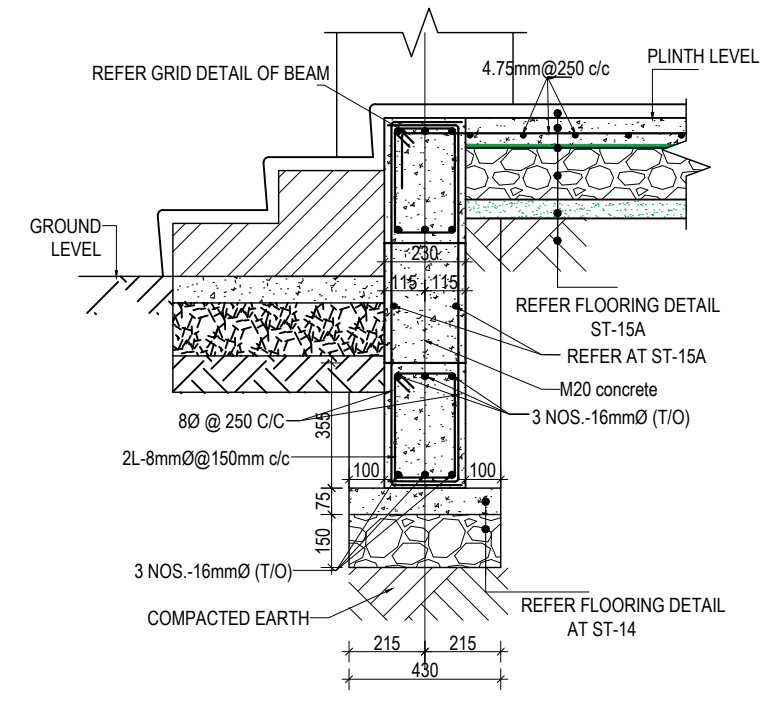
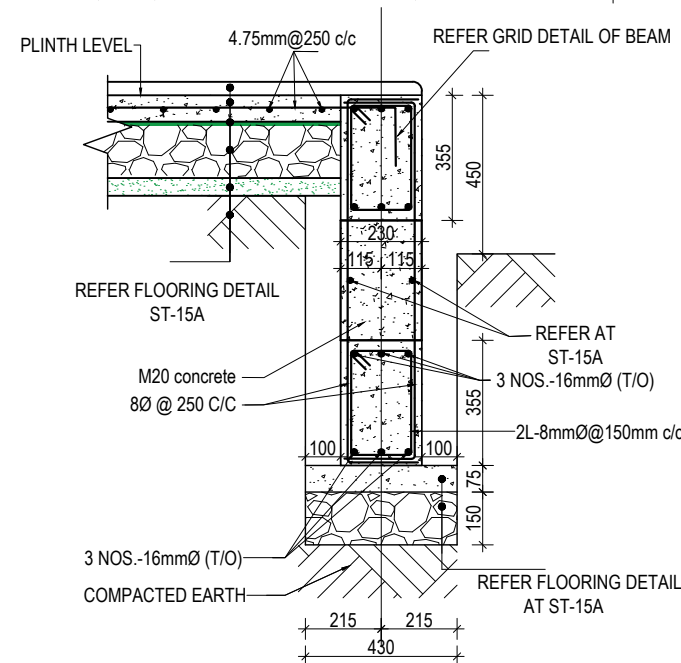
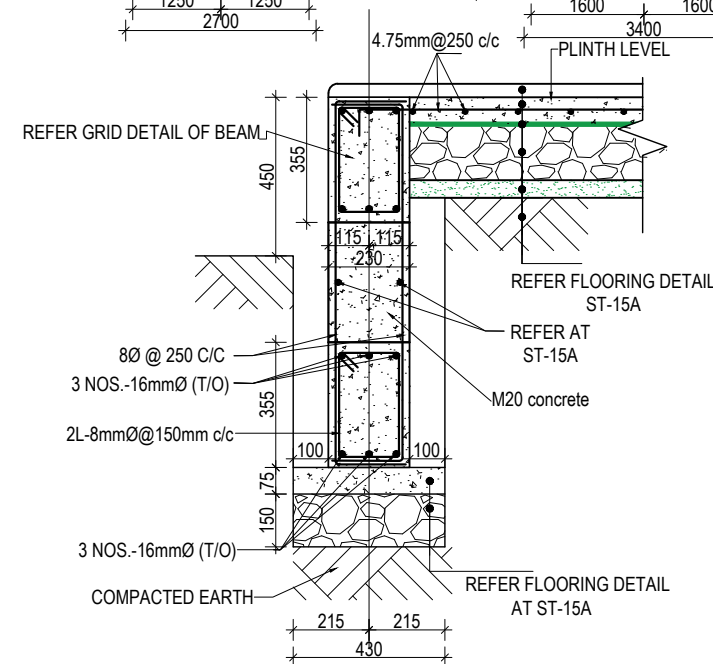
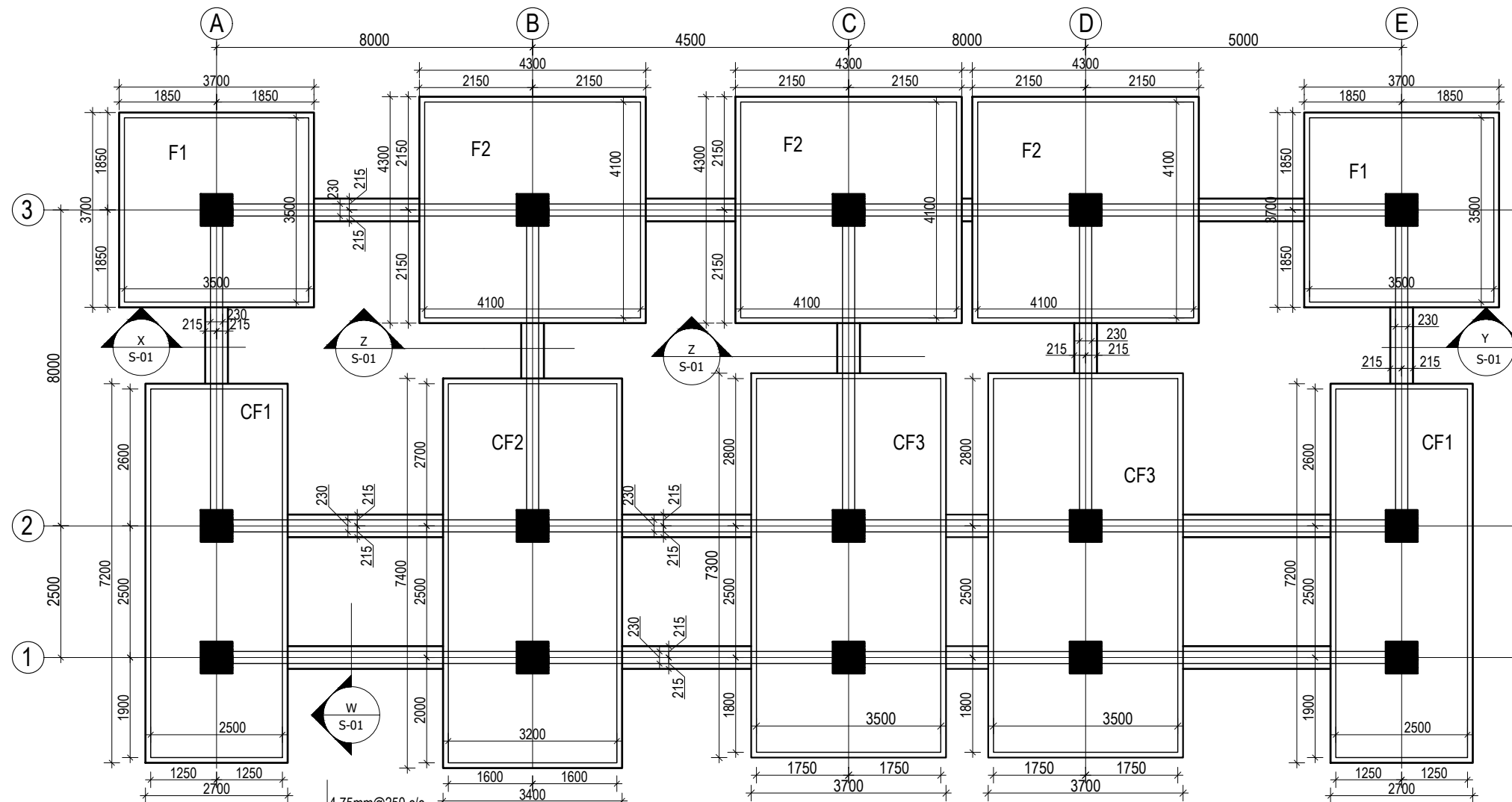



TYP. COLUMN SHEAR
REINFORCEMENT DETAIL

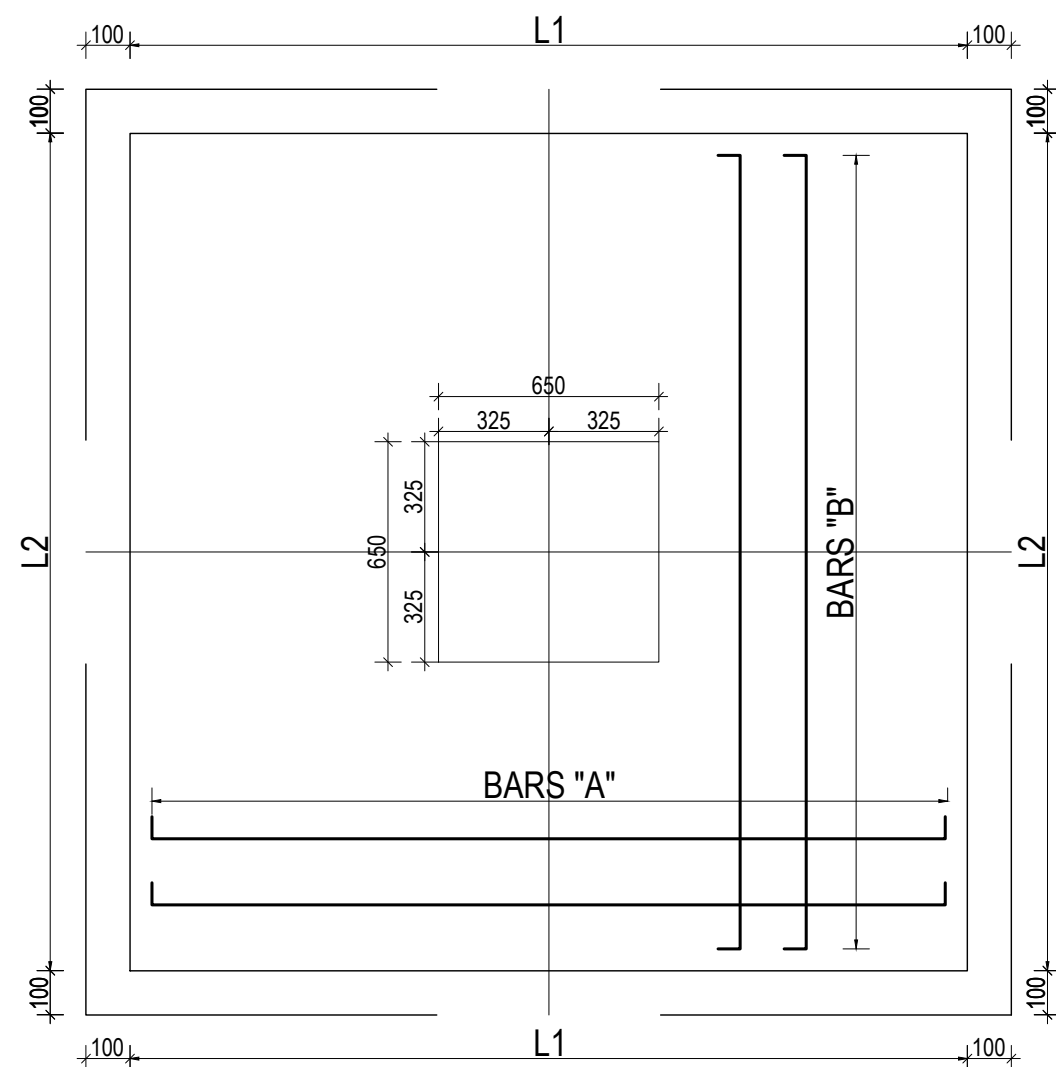


CHAIR RESTING ON BOTTOM BARS
@600 - 900 mm staggered position

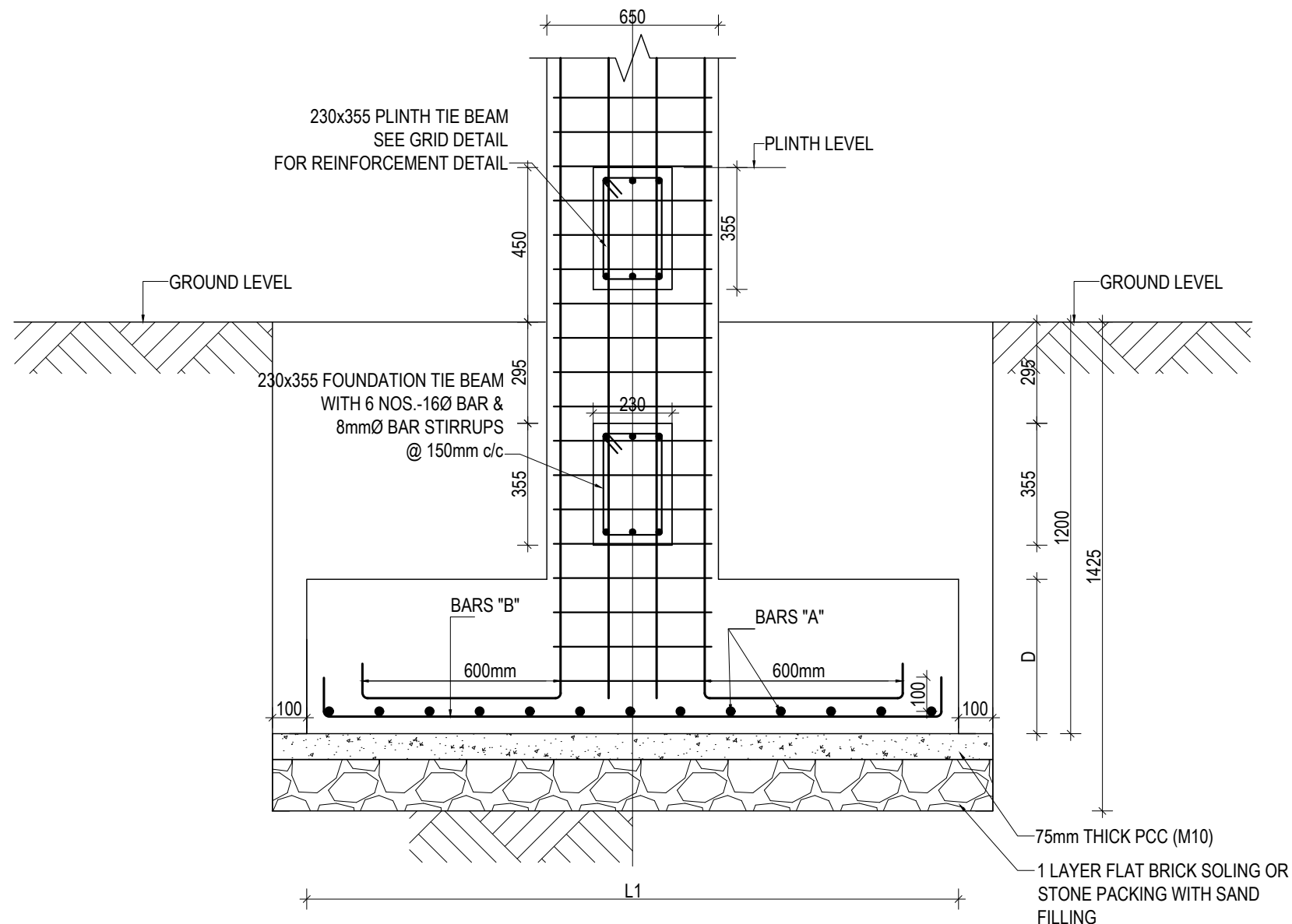
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	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Model and Big School	GENERAL NOTES	A.S.K. ENGINEERING CONSULTANCY PVT. LTD.	ENGINEER:	STRUCTURE ER. :	DWG CODE. 3S6R- BIG & MODEL	R-00
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	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Model and Big School	TRENCH DETAIL FOR S.B.C. 100kN/m2	A.S.K. ENGINEERING CONSULTANCY PVT. LTD.	ENGINEER:		ST-01	R-00
					ARCHITECT:		DWG CODE. 3S6R- BIG & MODEL	
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TYPICAL ISOLATED FOOTING PLAN

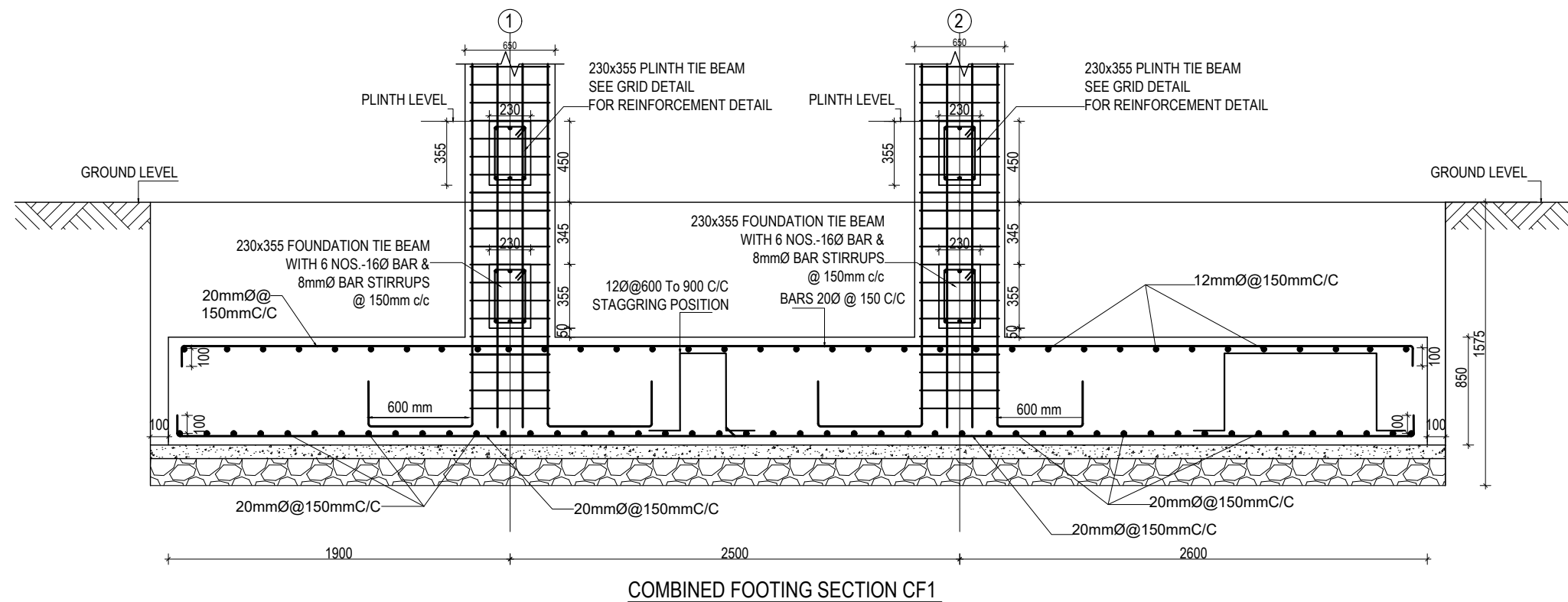
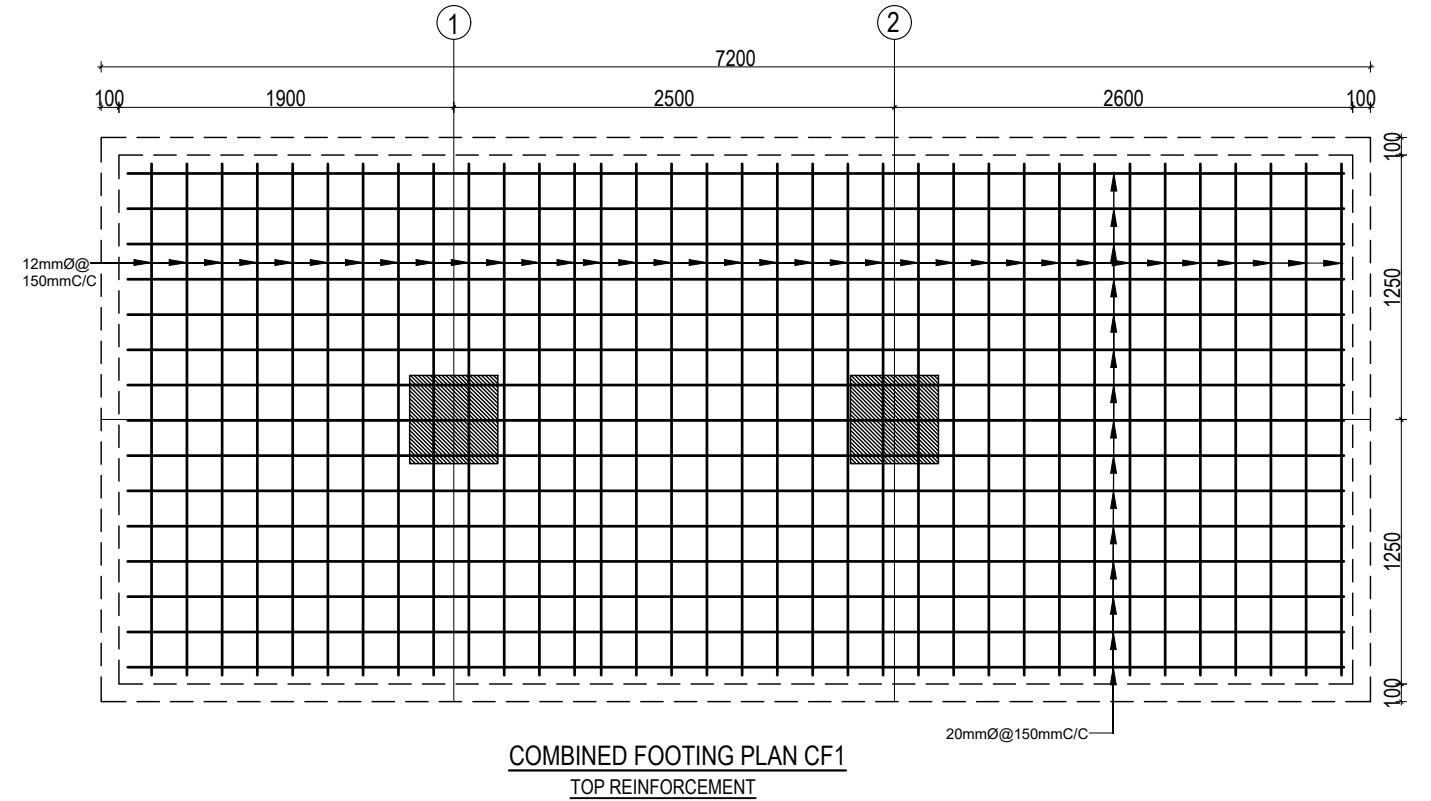
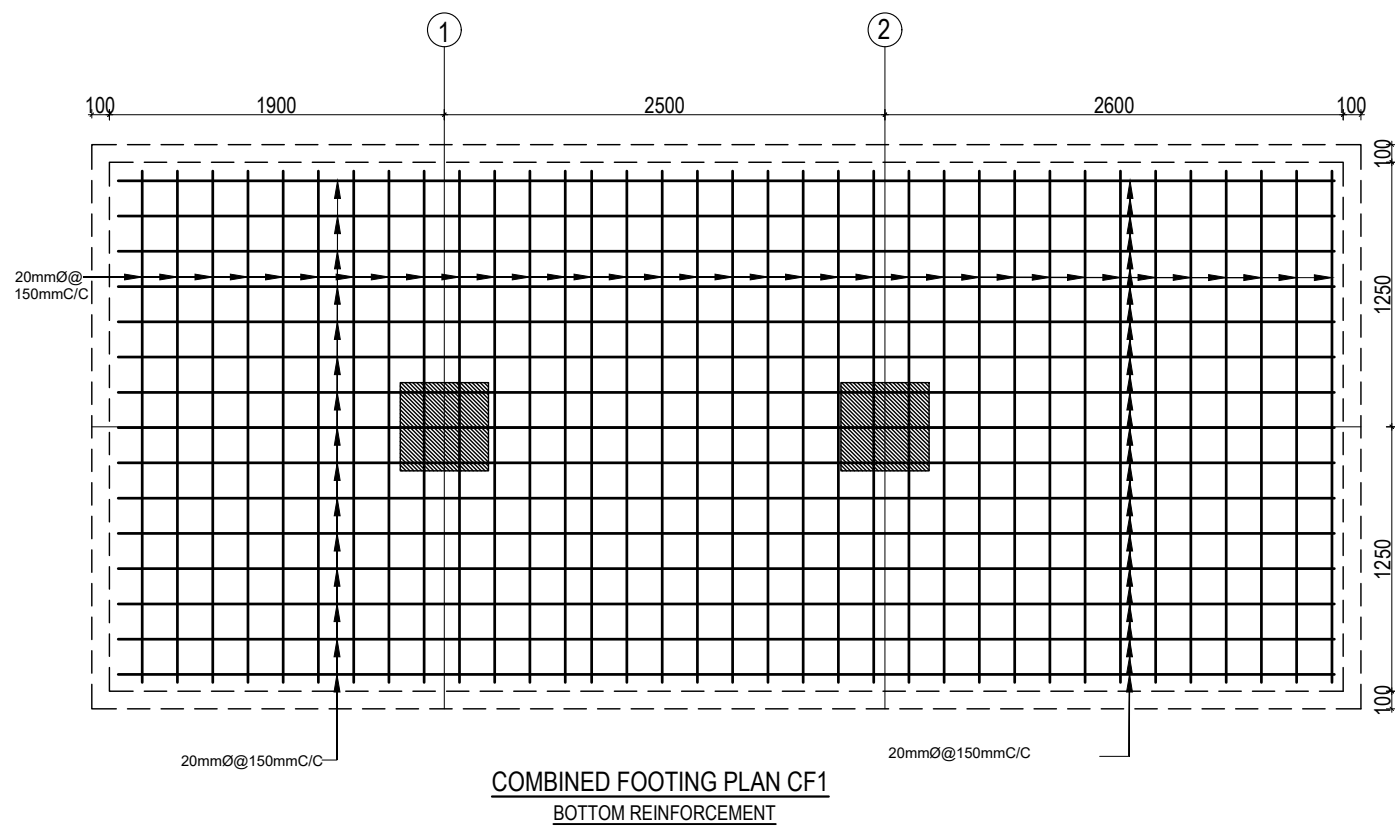



TYPICAL ISOLATED FOOTING SECTION

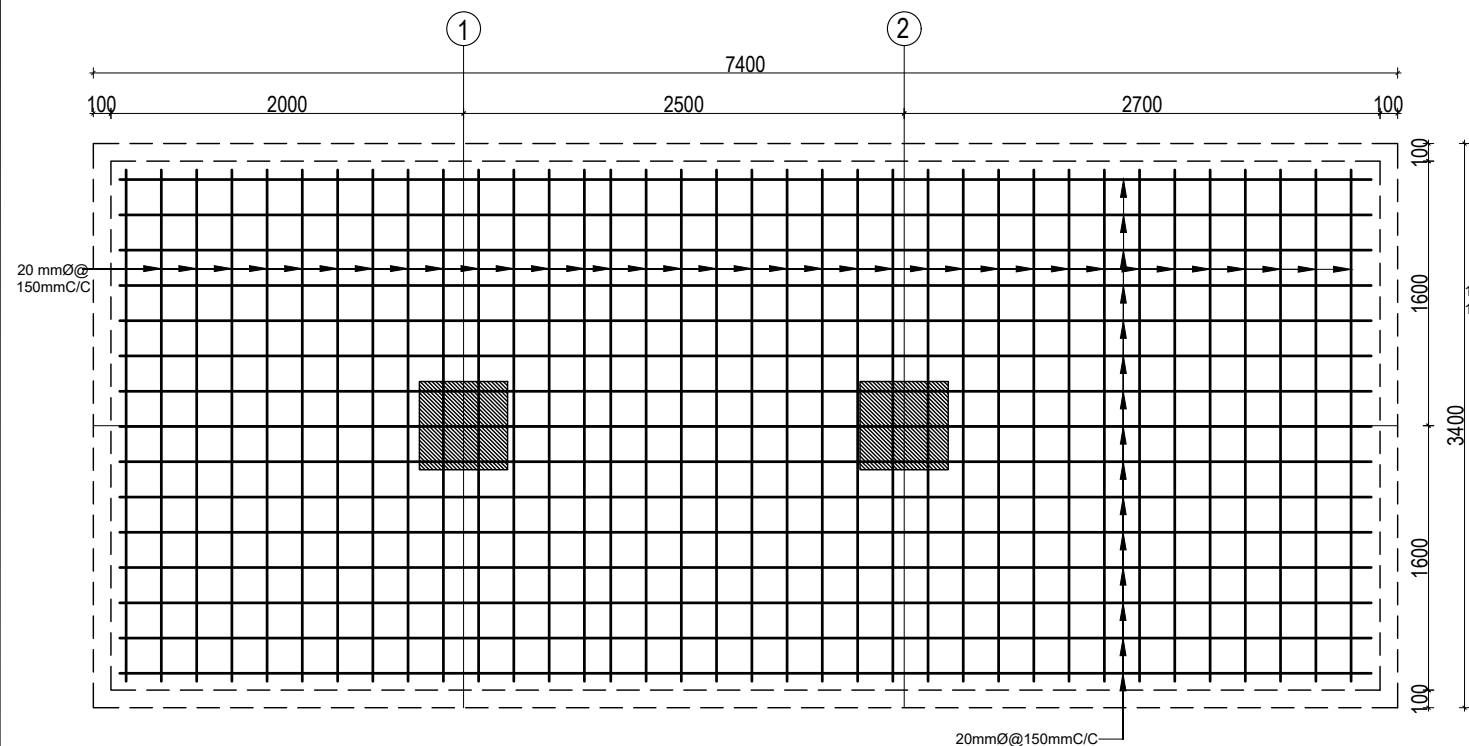
ISOLATED FOOTING SCHEDULE FOR S.B.C 100 kN/m²

FOOTING ID	L1	L2	DEPTH (D)	REINFORCEMENT DETAILS	
				BARS "A"	BARS "B"
F1	3700	3700	600	16Ø @ 150 C/C	16Ø @ 150 C/C
F2	4100	4100	750	16Ø @ 150 C/C	16Ø @ 150 C/C

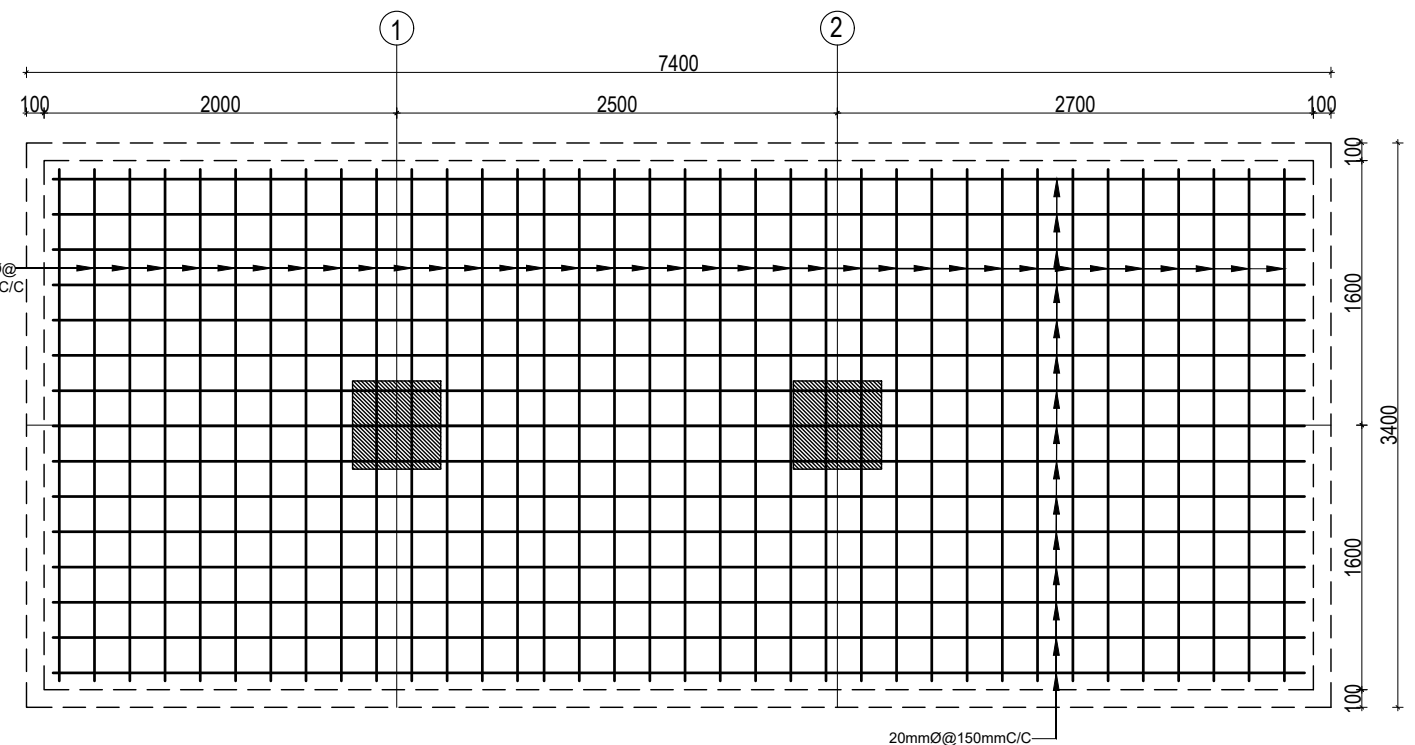
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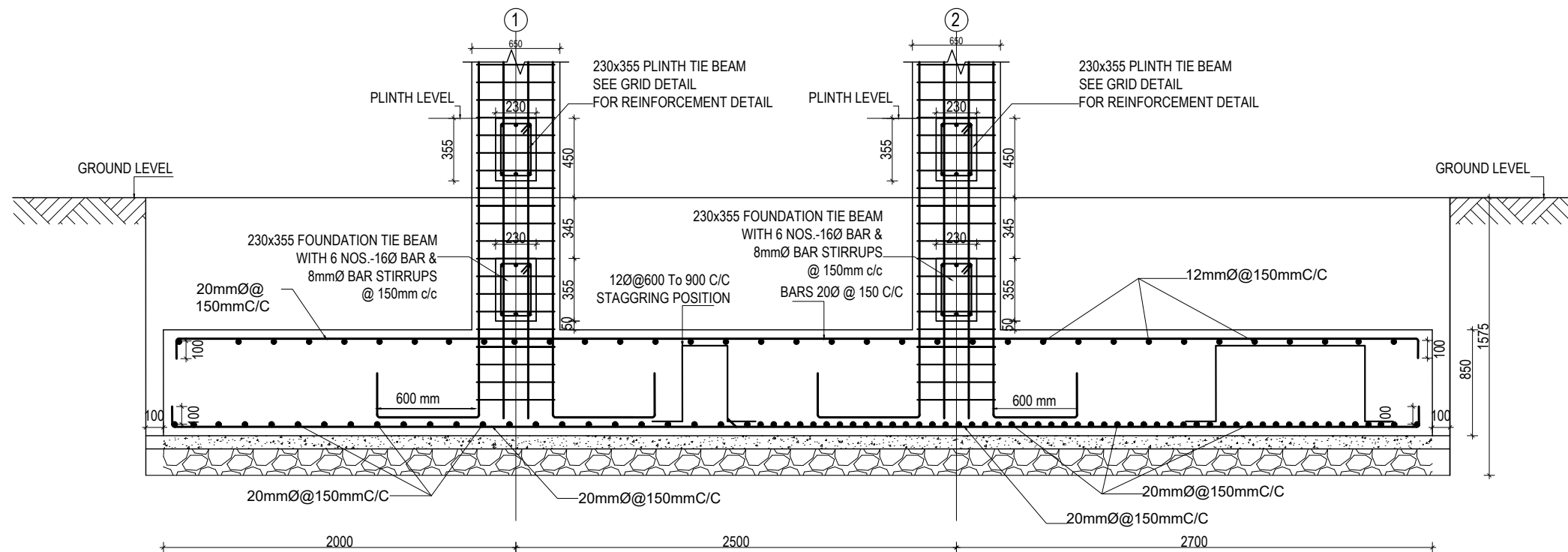
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COMBINED FOOTING PLAN CF2
BOTTOM REINFORCEMENT

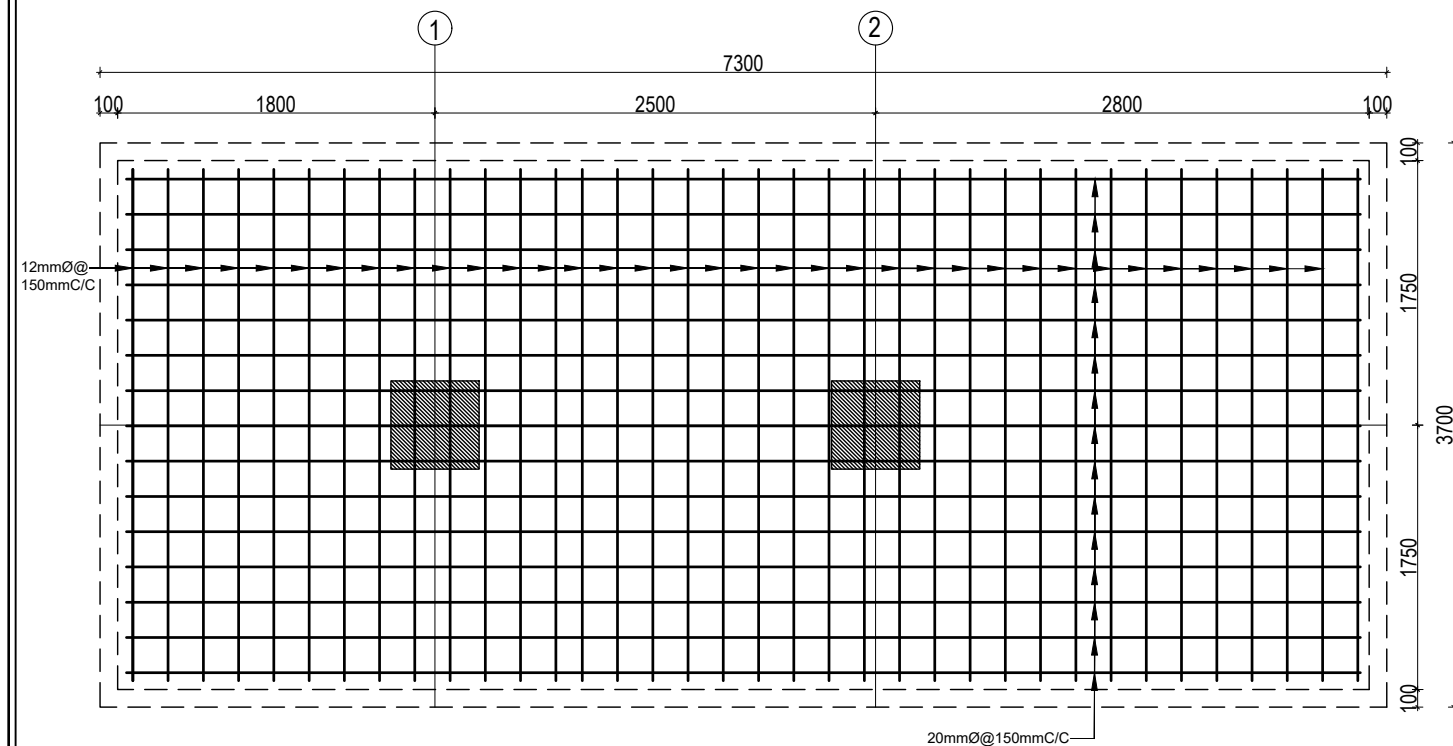


COMBINED FOOTING PLAN CF2
TOP REINFORCEMENT

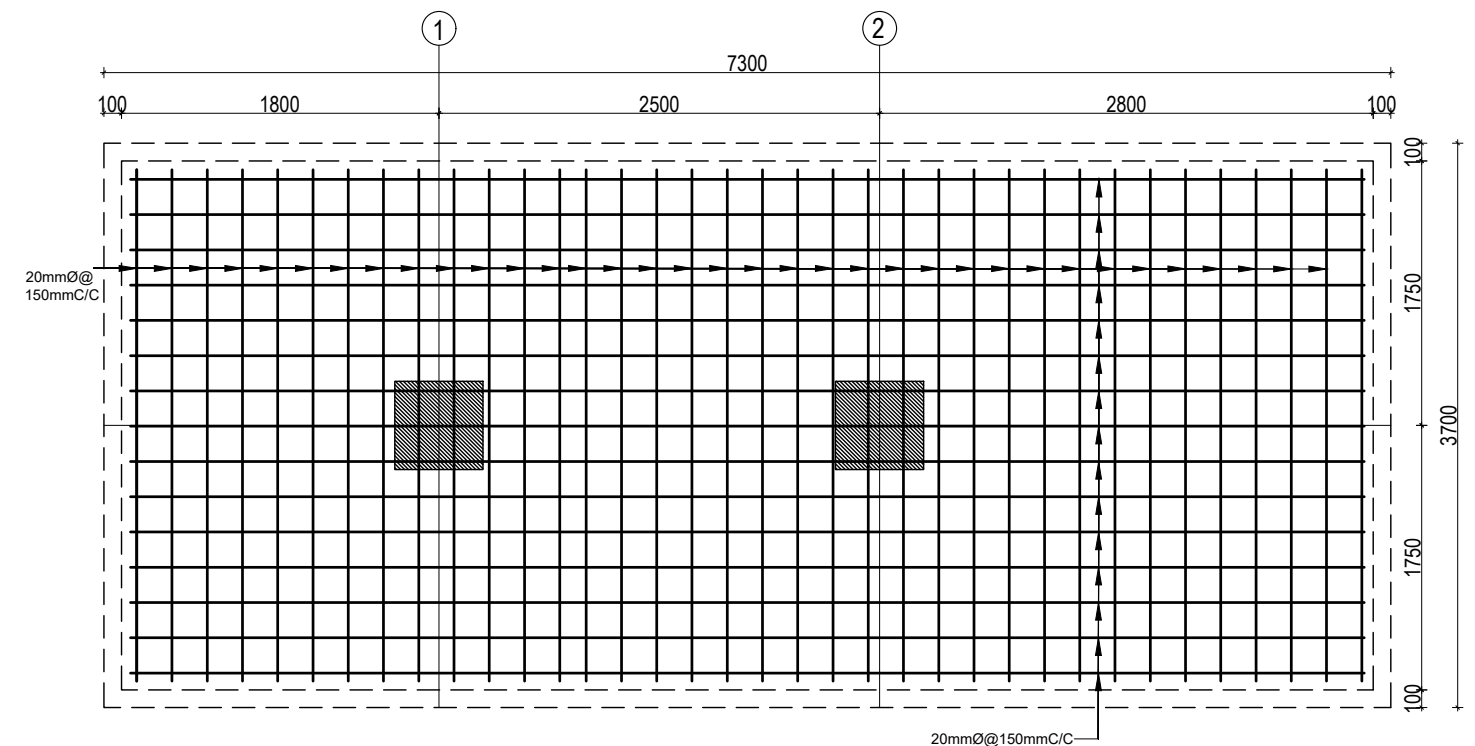


COMBINED FOOTING SECTION CF2

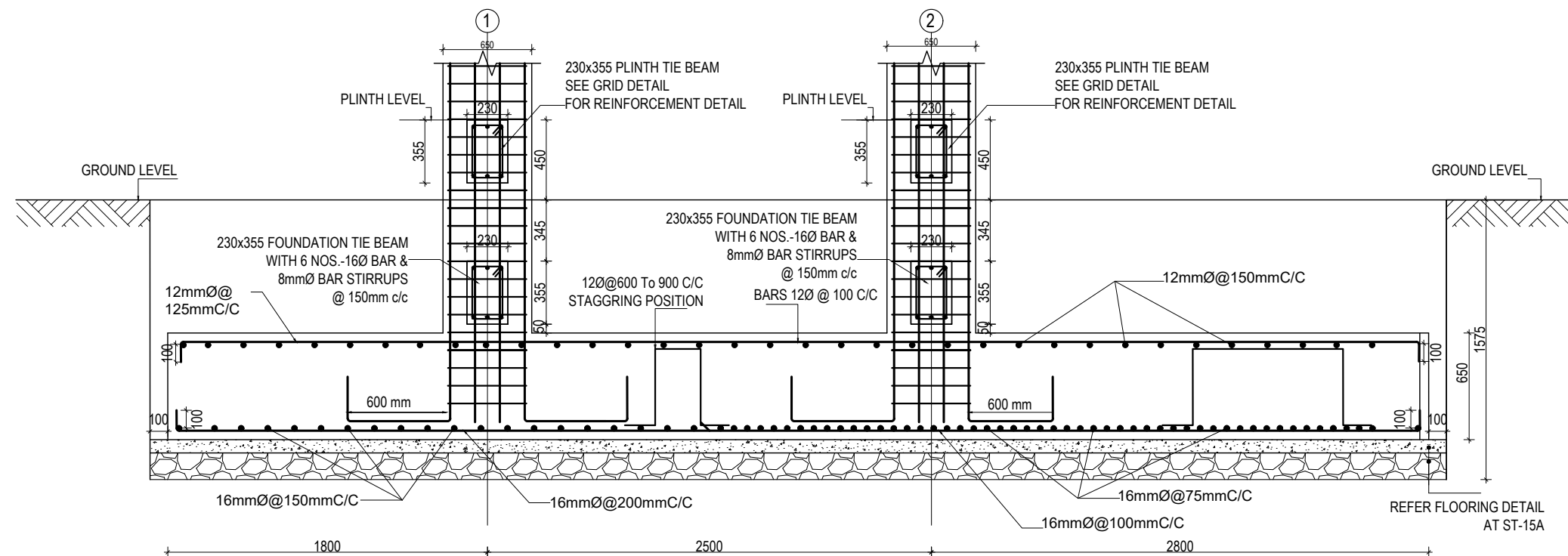
CLIENT		PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM		SHEET NO.	REVISION NO.
	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Model and Big School	FOOTING DETAIL FOR S.B.C 100kN/m2	A.S.K. ENGINEERING CONSULTANCY PVT. LTD.	ENGINEER:		ST-04	R-00
					ARCHITECT:		DWG CODE. 3S6R- BIG & MODEL	
					DRAWN :			
					SCALE : 1:120	PAPER SIZE : A3		
					DATE: FEBRUARY, 2023			




COMBINED FOOTING PLAN CF3
TOP REINFORCEMENT

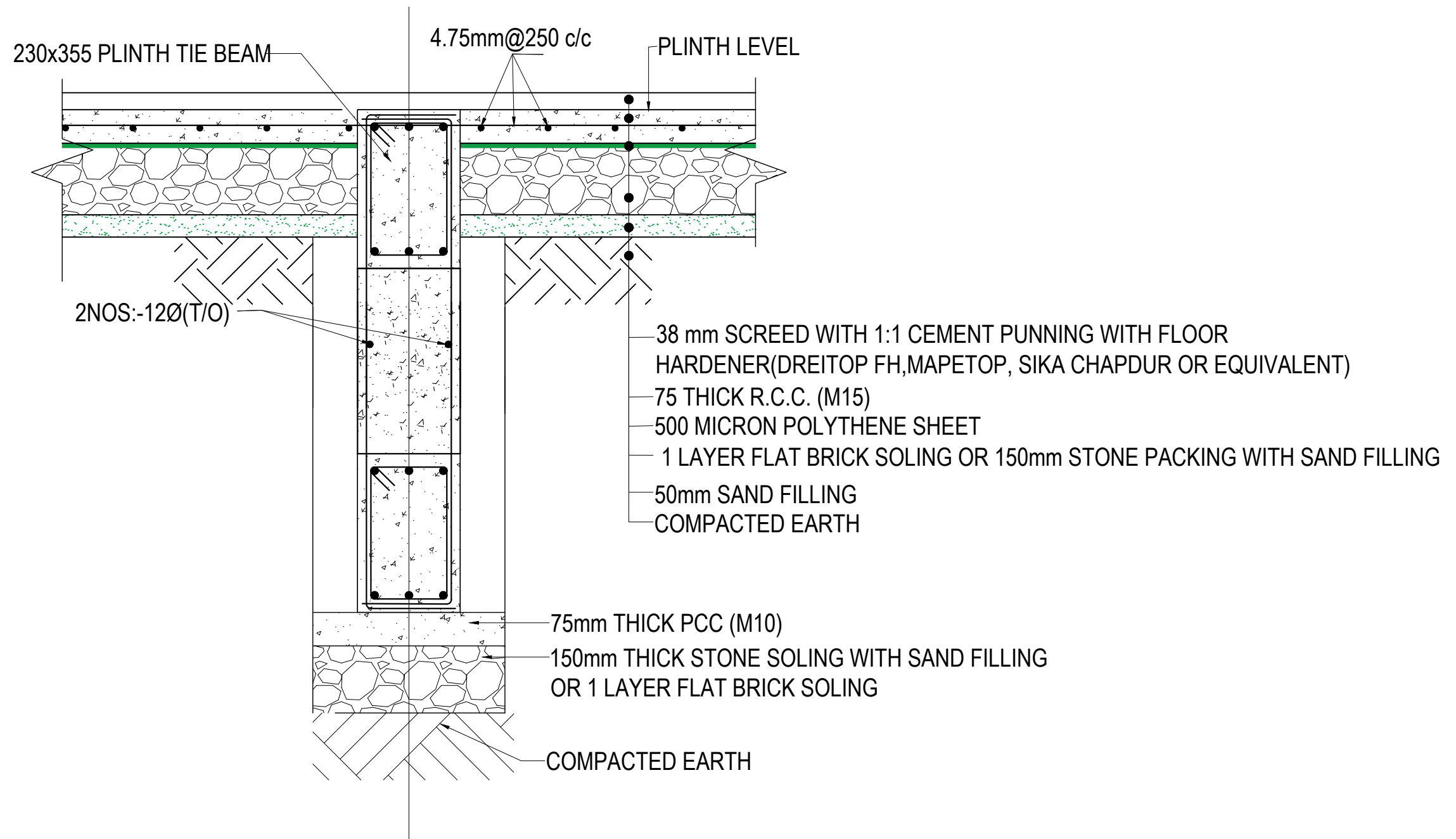


COMBINED FOOTING PLAN CF3
BOTTOM REINFORCEMENT




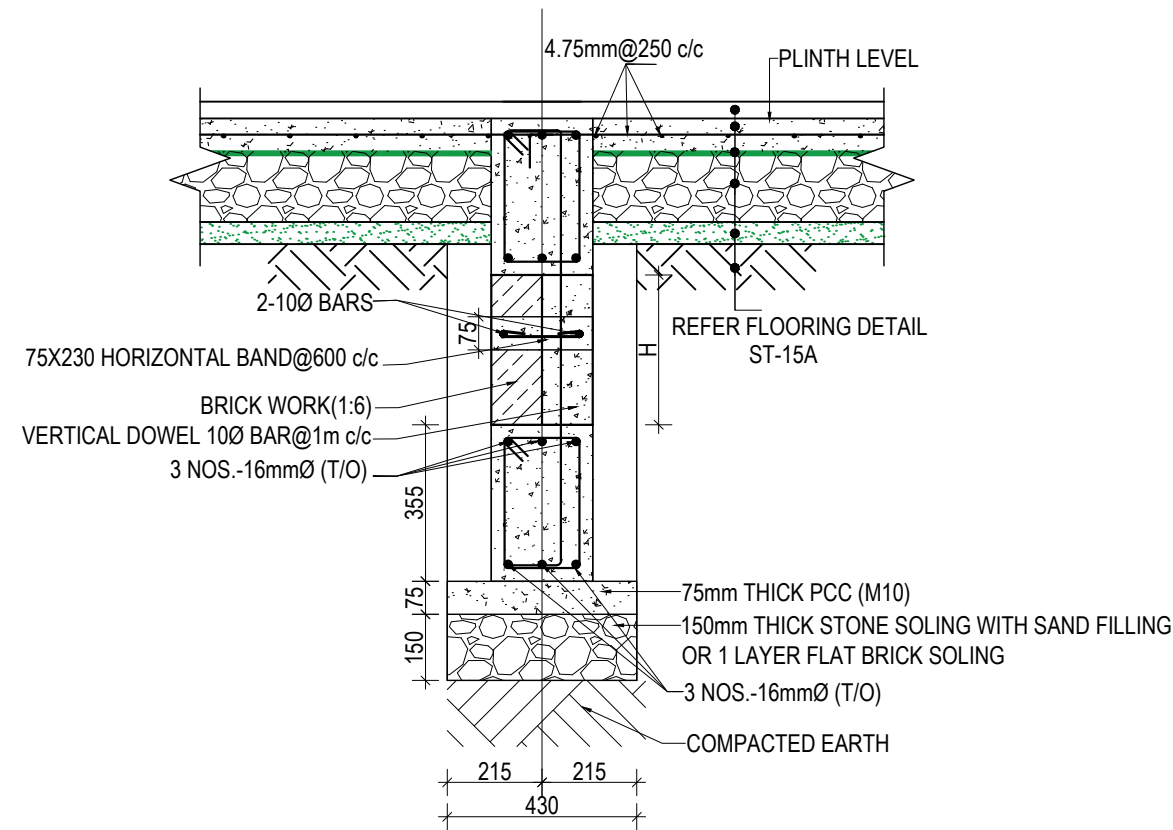
COMBINED FOOTING SECTION CF3

CLIENT		PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM		SHEET NO.	REVISION NO.
	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Model and Big School	FOOTING DETAIL FOR S.B.C 100kN/m2	A.S.K. ENGINEERING CONSULTANCY PVT. LTD.	ENGINEER:		ST-05	R-00
					ARCHITECT:		DWG CODE. 3S6R- BIG & MODEL	
					DRAWN :			
					SCALE : 1:120	PAPER SIZE : A3		
					DATE: FEBRUARY, 2023			



TYPICAL FLOORING DETAIL FF1
(Scale= 1:10)

CLIENT		PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM		SHEET NO.	REVISION NO.
	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Model and Big School	TYPICAL FLOORING DETAIL	A.S.K. ENGINEERING CONSULTANCY PVT. LTD.	ENGINEER:		ST-06	R-00
					STRUCTURE ER. :			
					ARCHITECT:			
					CHECKED:			
DRAWN :		APPROVED:				DWG CODE. 3S6R- BIG & MODEL		
SCALE : 1:120		PAPER SIZE : A3		DATE: FEBRUARY, 2023				



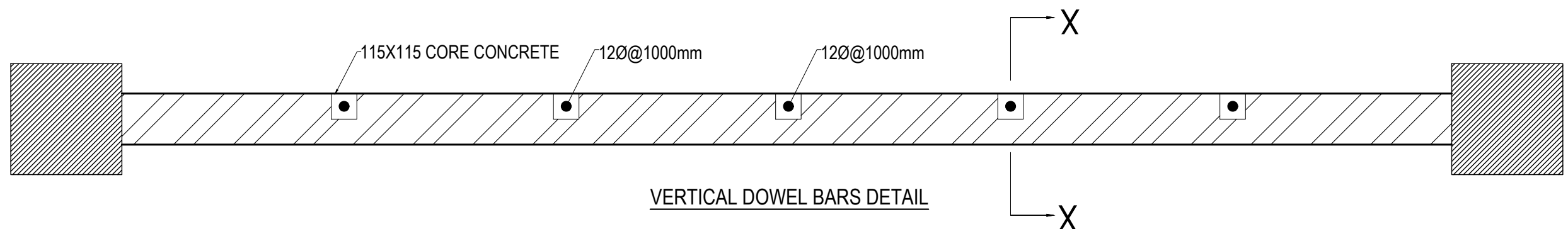
WALL DETAIL FOR DEPTH OF FOOTING MORE THAN 1500 mm

SECTION AT X-X


NOTES:-

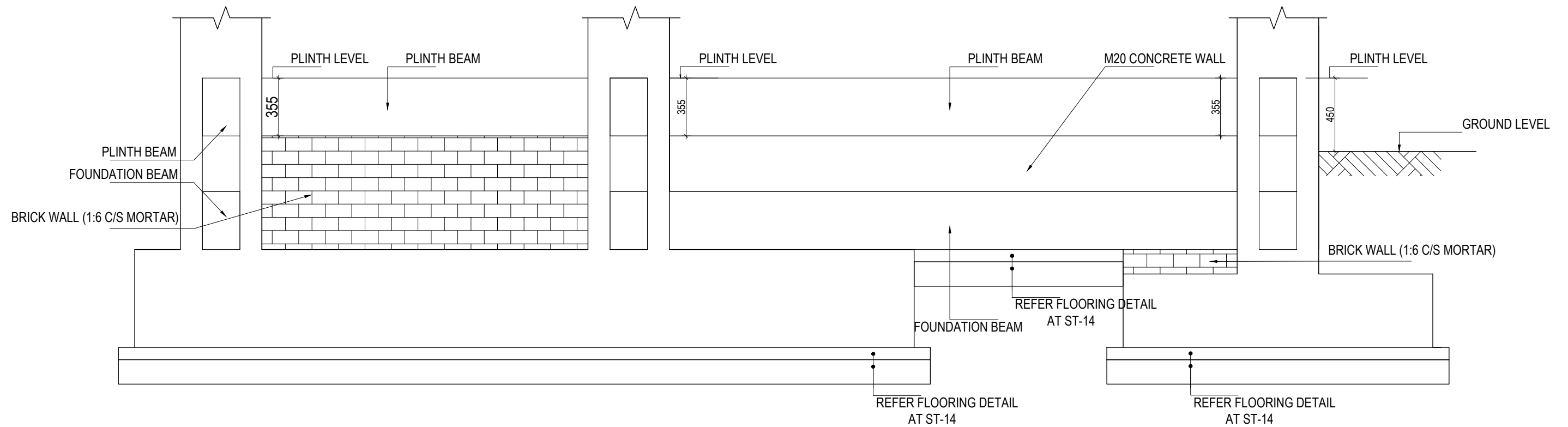
1) BRICK WALL IS USED IF WALL IS CONFINED BY SOIL ON BOTH SIDES

2) IF THE HEIGHT OF THE BRICK WALL EXCEEDS 1800 mm ADDITIONAL BEAM SHALL BE PROVIDED OF SAME SIZE OF FOUNDATION BEAM (SAME REINFORCEMENT TO BE USED)




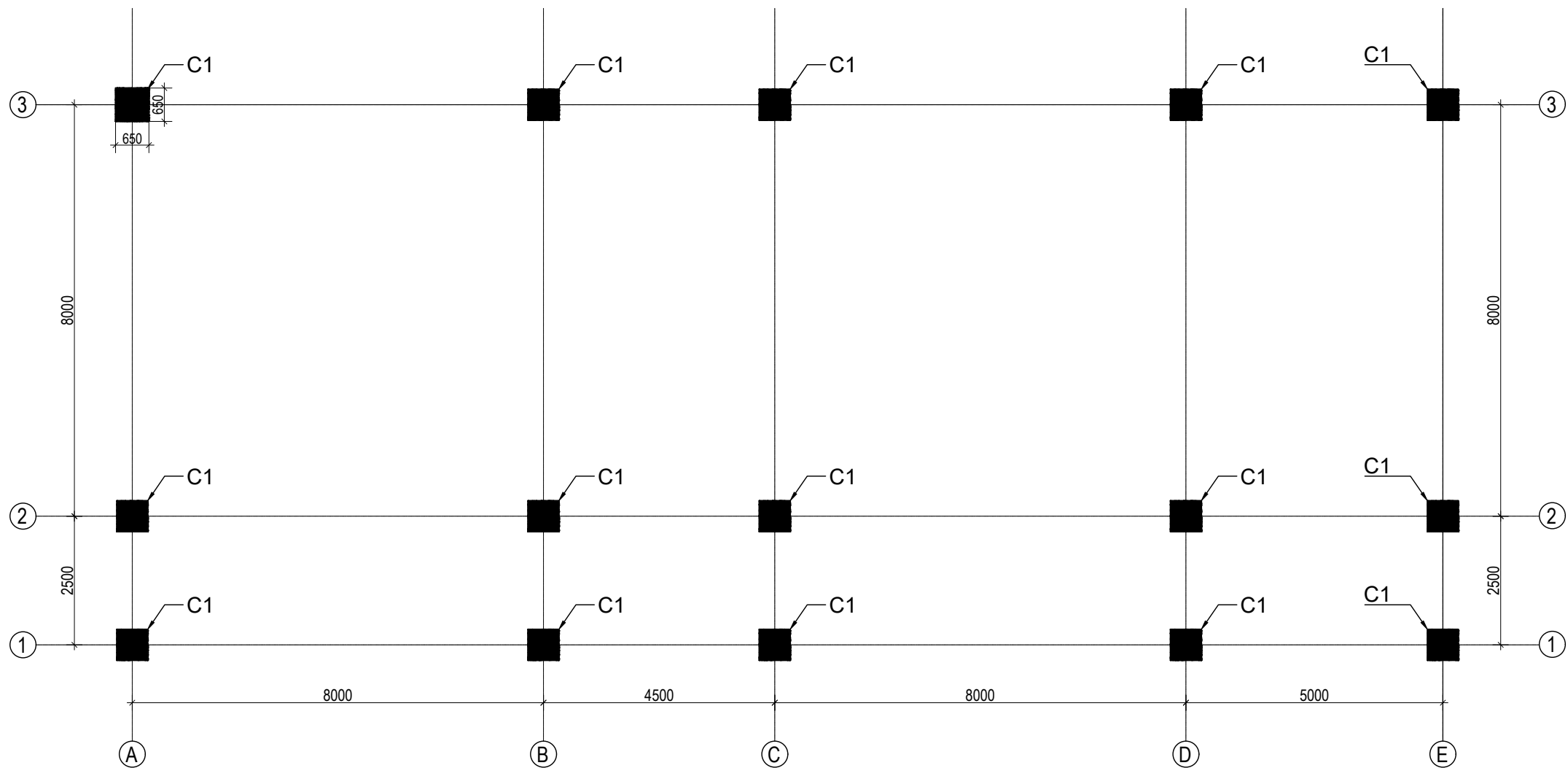
VERTICAL DOWEL BARS DETAIL

CLIENT		PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM		SHEET NO.	REVISION NO.
	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Model and Big School	SITE SPECIFIC DRAWING	A.S.K. ENGINEERING CONSULTANCY PVT. LTD.	ENGINEER:	STRUCTURE ER. :	ST-07	R-00
					ARCHITECT:	CHECKED:		
					DRAWN :	APPROVED:	DWG CODE. 3S6R- BIG & MODEL	
					SCALE : 1:120	PAPER SIZE : A3		



TYPICAL DETAIL OF FOUNDATION WALL


CLIENT		PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM		SHEET NO.	REVISION NO.
	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Model and Big School	TYPICAL DETAIL OF FOUNDATION WALL	A.S.K. ENGINEERING CONSULTANCY PVT. LTD.	ENGINEER:	STRUCTURE ER. :	ST-08	R-00
					ARCHITECT:	CHECKED:		
					DRAWN :	APPROVED:		
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					DATE: FEBRUARY, 2023		DWG CODE. 3S6R- BIG & MODEL	

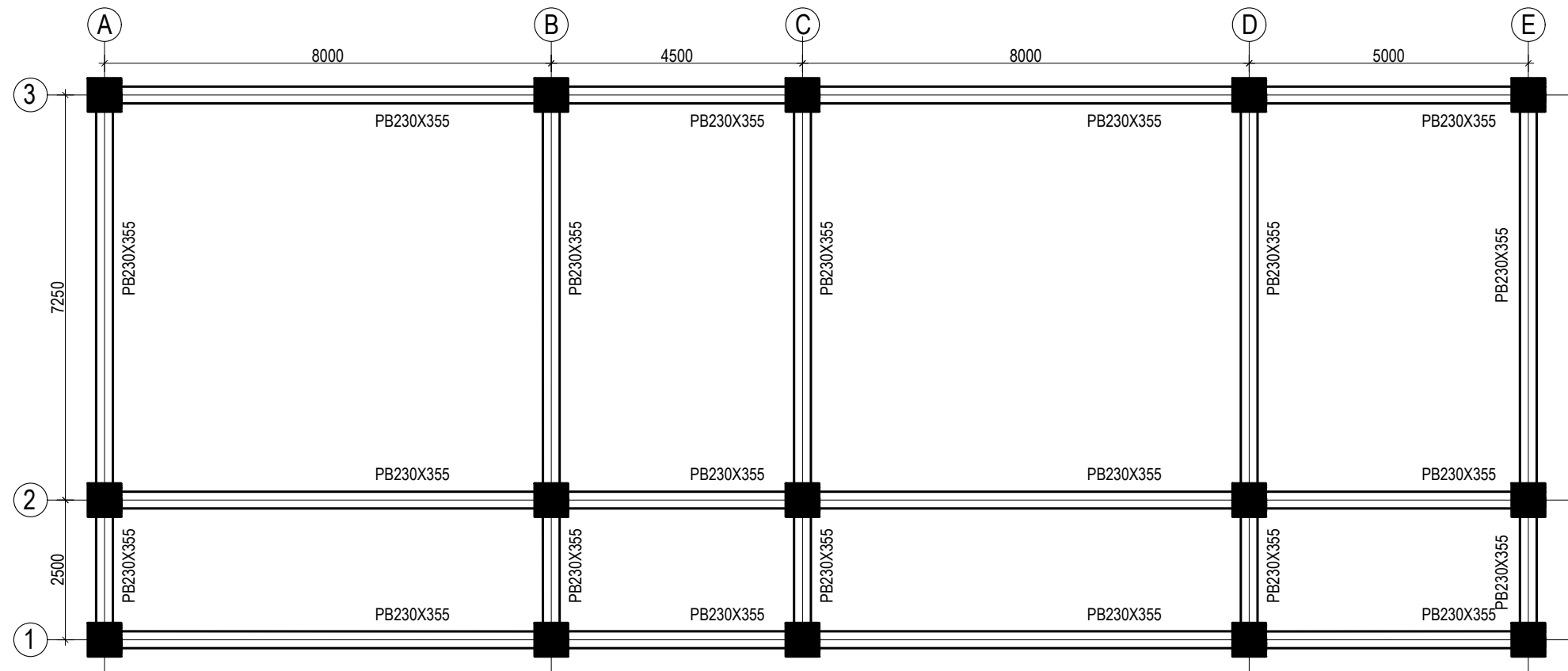


GROUND FLOOR COLUMN LAYOUT PLAN
(SCALE 1:100)

COLUMN REINFORCEMENT DETAILS

S. NO.	COLUMN	COLUMN SIZE	FLOOR					TIE BAR ORIENTATION
			GROUND FLOOR	FIRST FLOOR	SECOND FLOOR	THIRD FLOOR	TOP FLOOR	
1	C1	650X650						


CLIENT		PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM		SHEET NO. ST-09	REVISION NO. R-00
	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Model and Big School	COLUMN DETAIL	A.S.K. ENGINEERING CONSULTANCY PVT. LTD.	ENGINEER:		DWG CODE. 3S6R- BIG & MODEL	
					ARCHITECT:			
					DRAWN :			
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					STRUCTURE ER. :			
					CHECKED:			
					APPROVED:			

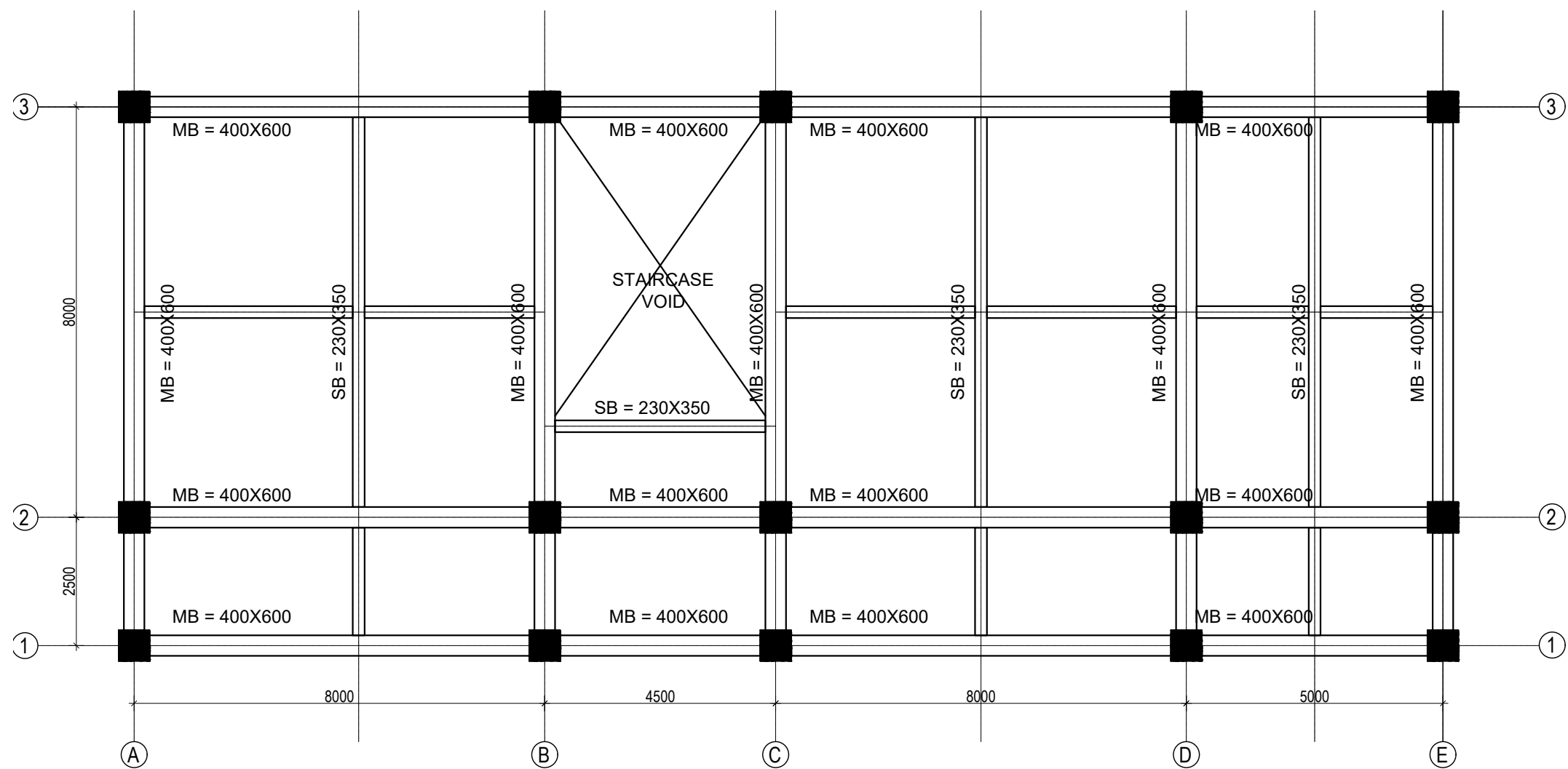


PLINTH BEAM LAYOUT PLAN


(Scale= 1:100)

LVL:- PL+0000

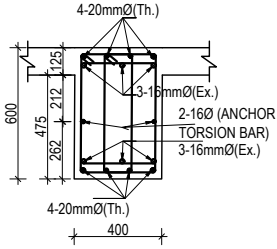
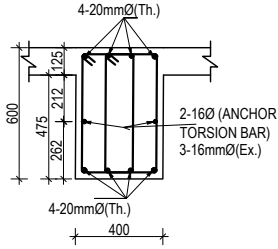
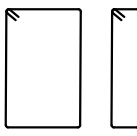
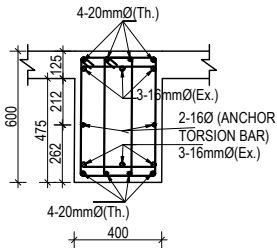
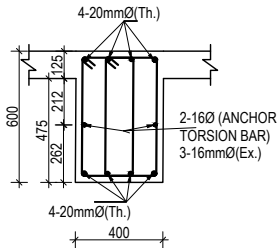
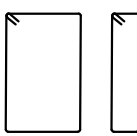
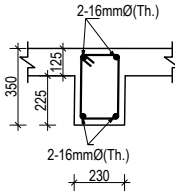
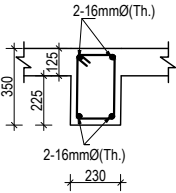

CLIENT		PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM		SHEET NO.	REVISION NO.
	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Model and Big School	BEAM LAYOUT PLAN	A.S.K. ENGINEERING CONSULTANCY PVT. LTD.	ENGINEER:	STRUCTURE ER. :	ST-10	R-00
					ARCHITECT:	CHECKED:		
					DRAWN :	APPROVED:	DWG CODE. 3S6R- BIG & MODEL	
					SCALE : 1:120	PAPER SIZE : A3		




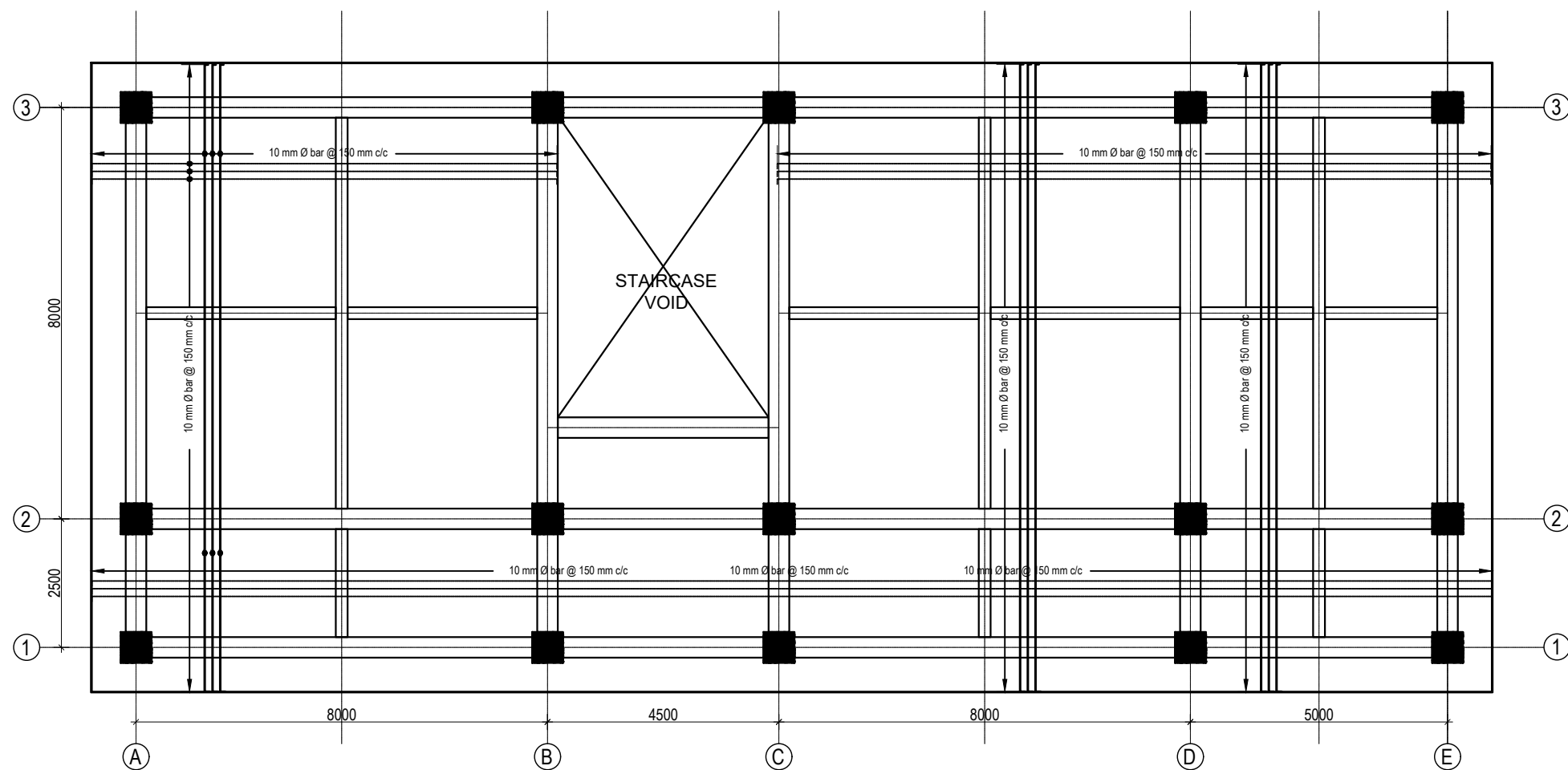
BEAM LAYOUT PLAN (FIRST, SECOND AND THIRD FLOOR)
(Scale= 1:100)

CLIENT		PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM		SHEET NO. ST-11	REVISION NO. R-00
	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Model and Big School	BEAM LAYOUT PLAN	A.S.K. ENGINEERING CONSULTANCY PVT. LTD.	ENGINEER:	STRUCTURE ER. :	DWG CODE. 3S6R- BIG & MODEL	
					ARCHITECT:	CHECKED:		
					DRAWN :	APPROVED:		
					SCALE : 1:120	PAPER SIZE : A3		

COLUMN REINFORCEMENT DETAILS

S. NO.	GRID	BEAM SIZE	AT SUPPORT	AT MID	STIRRUPS BAR ORIENTATION	FLOOR LVL
1	1-1 2-2 3-3	400X600				FIRST FLOOR BEAMS SECOND FLOOR BEAMS
2	A-A B-B C-C D-D E-E	400X600				REMAINING FLOOR BEAMS
3	Sec. beam	230X350				ALL FLOOR BEAMS


CLIENT		PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM		SHEET NO. ST-12	REVISION NO. R-00
	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Model and Big School	COLUMN DETAIL	A.S.K. ENGINEERING CONSULTANCY PVT. LTD.	ENGINEER:		DWG CODE. 3S6R- BIG & MODEL	
					STRUCTURE ER. :			
					ARCHITECT:			
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DRAWN :		APPROVED:						
SCALE : 1:120		PAPER SIZE : A3	DATE: FEBRUARY, 2023					

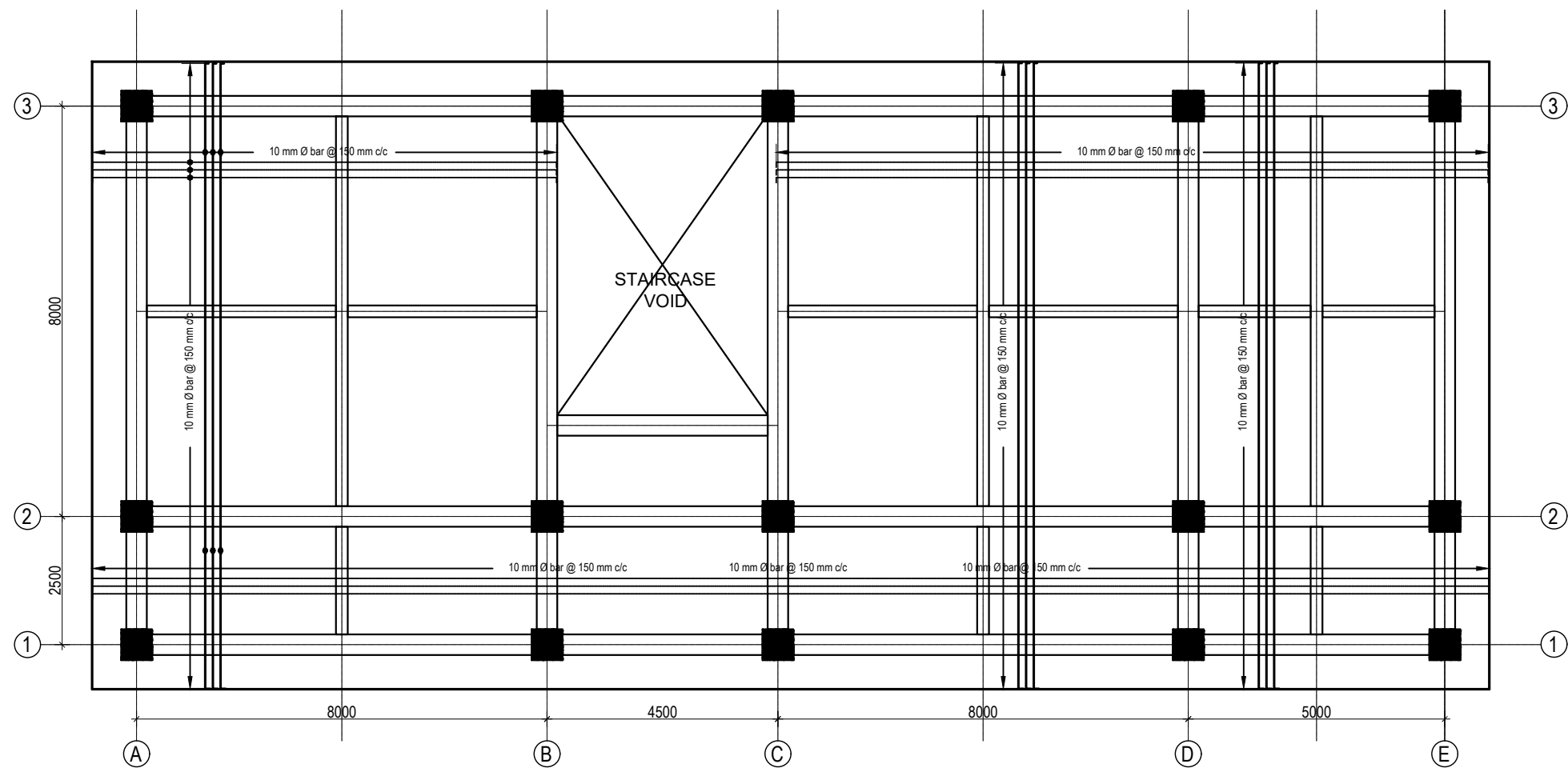


SLAB REINFORCEMENT DETAIL FOR BOTTOM BARS
(GROUND, FIRST, SECOND AND THIRD FLOOR)
BOTTOM REINFORCEMENT: 8Ø@150 mm c/c

(Scale= 1:120)


125 mm SLAB THICKNESS

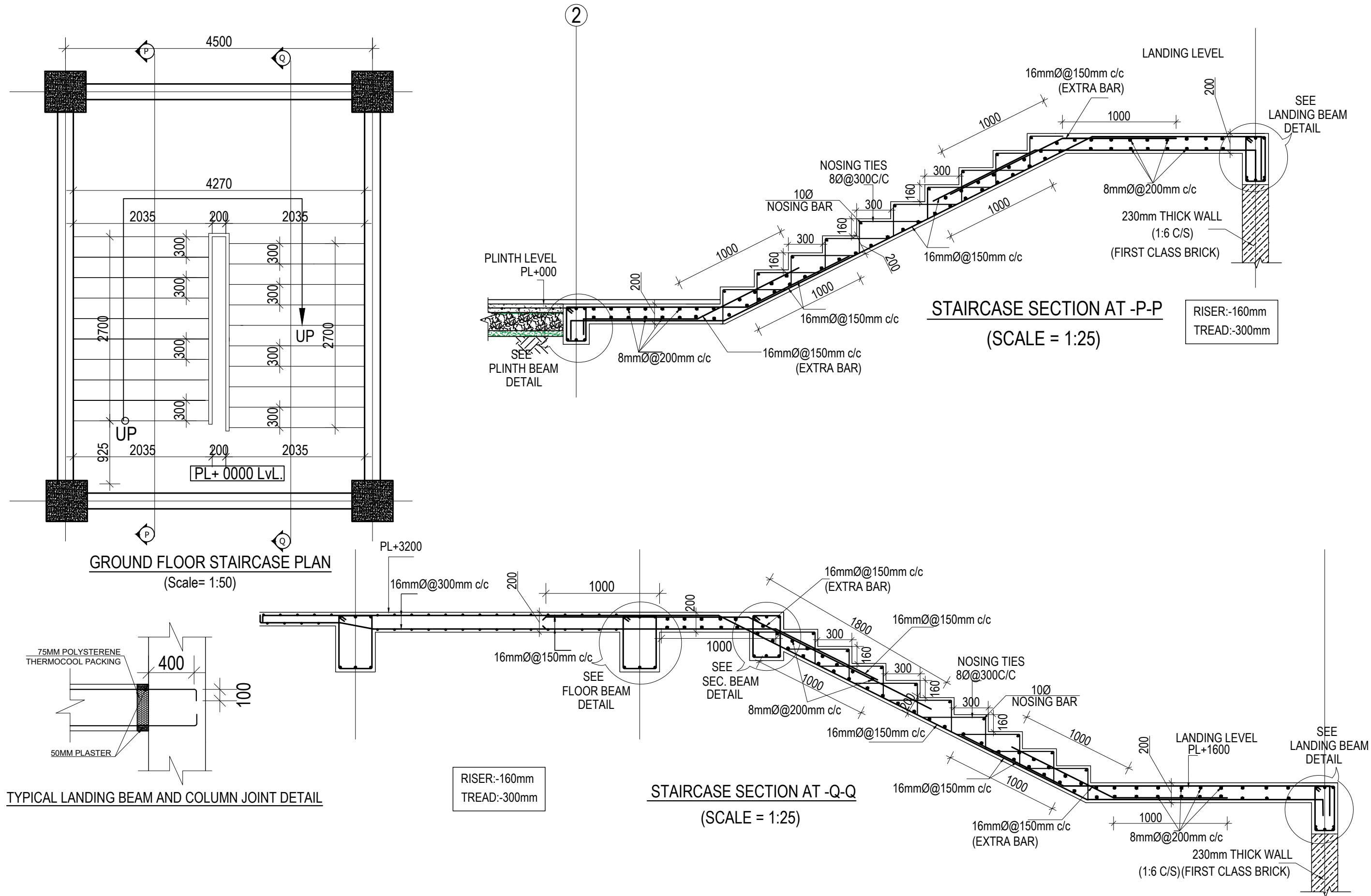
CLIENT		PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM		SHEET NO.	REVISION NO.	
	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Model and Big School	SLAB REINFORCEMENT DETAIL	A.S.K. ENGINEERING CONSULTANCY PVT. LTD.	ENGINEER:		ST-13	R-00	
					STRUCTURE ER. :				
					ARCHITECT:		CHECKED:		
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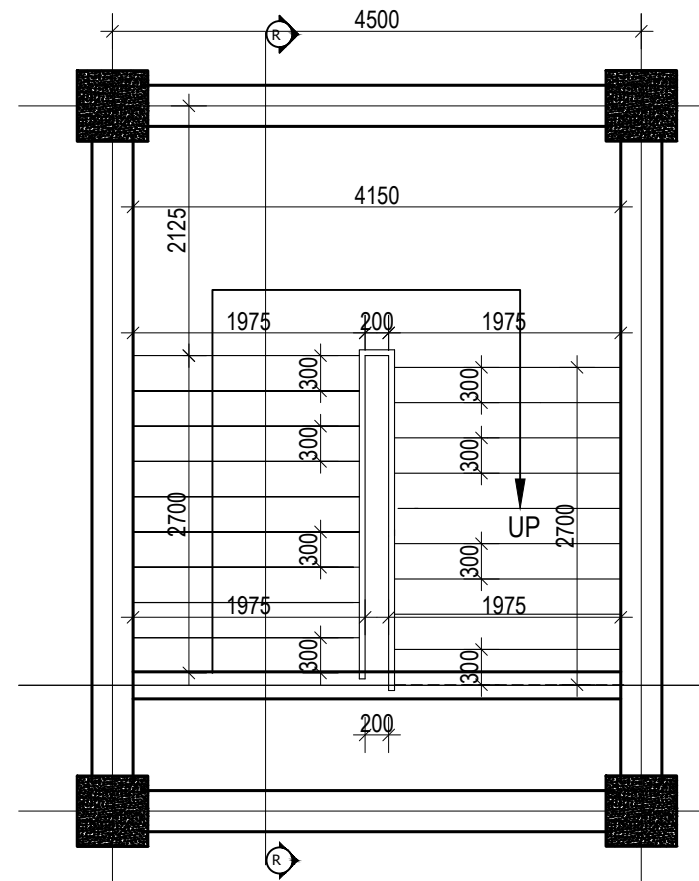
SLAB REINFORCEMENT DETAIL FOR TOP BARS
(GROUND, FIRST, SECOND AND THIRD FLOOR)
TOP REINFORCEMENT: a. FOR MAIN BEAM :10Ø@150 mm c/c
b. FOR SECONDARY BEAM :10Ø@200 mm c/c
(Scale= 1:120)

125 mm SLAB THICKNESS

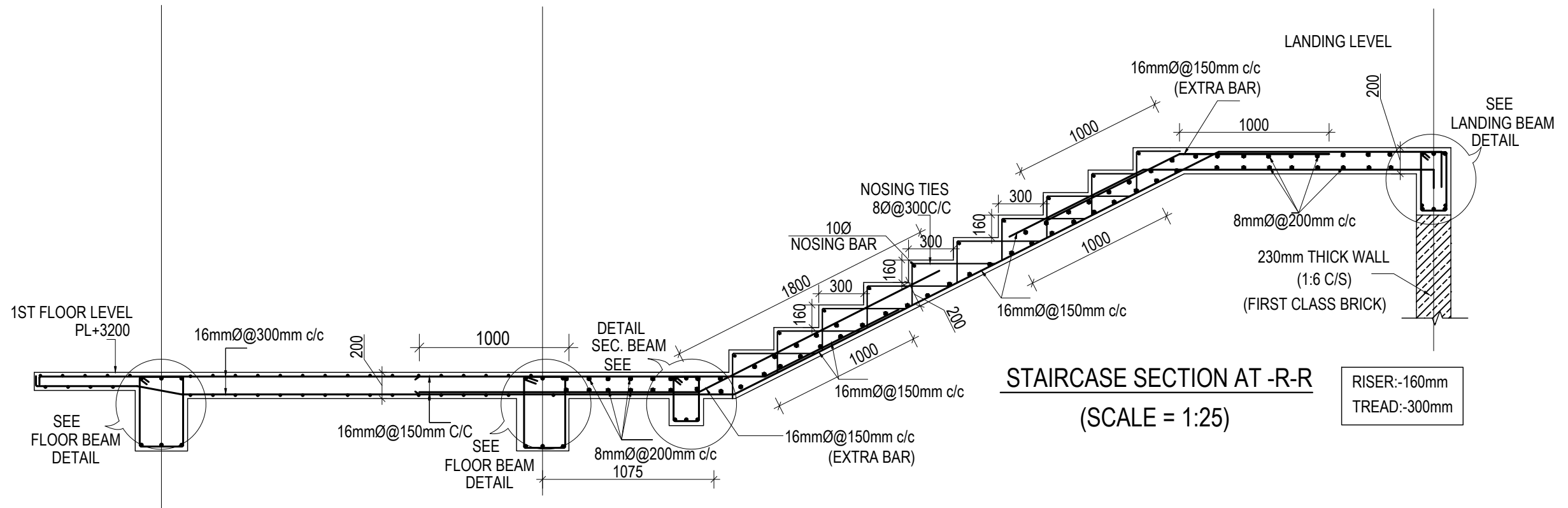
CLIENT		PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM		SHEET NO.	REVISION NO.
	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Model and Big School	SLAB REINFORCEMENT DETAIL	A.S.K. ENGINEERING CONSULTANCY PVT. LTD.	ENGINEER:		ST-14	R-00
					ARCHITECT:			
					DRAWN :		APPROVED:	
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							DWG CODE. 3S6R- BIG & MODEL	




CLIENT	PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM		SHEET NO.	REVISION NO.
 Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Model and Big School	STAIRCASE DETAIL	A.S.K. ENGINEERING CONSULTANCY PVT. LTD.	ENGINEER:	STRUCTURE ER. :	ST-15	R-00
				ARCHITECT:	CHECKED:	DWG CODE. 3S6R- BIG & MODEL	
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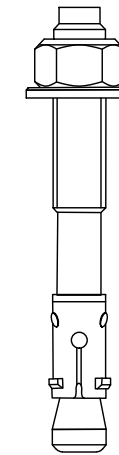
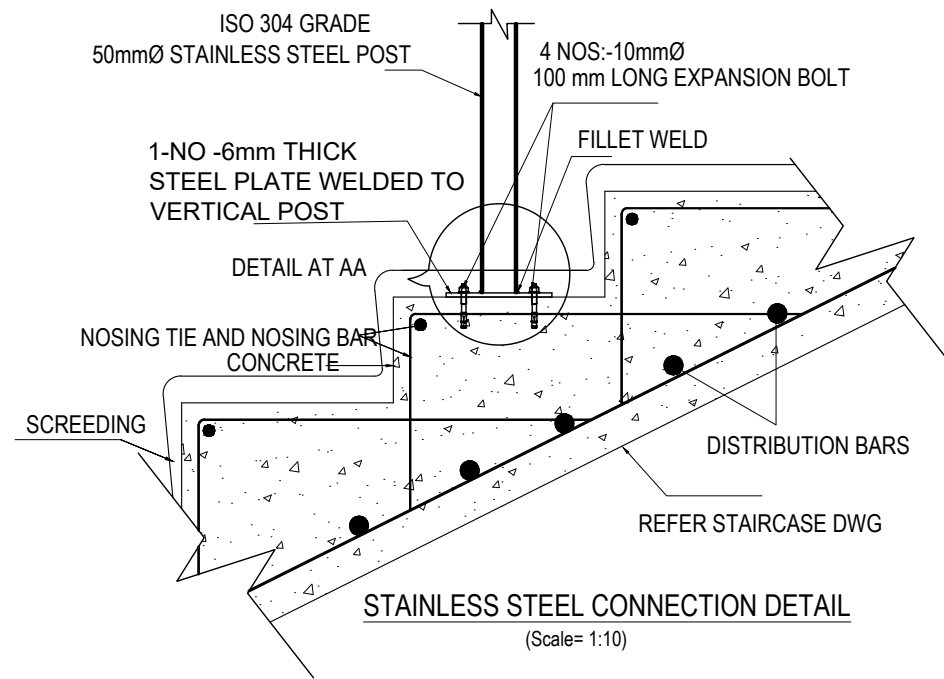


TYPICAL FLOOR STAIRCASE PLAN
(Scale= 1:50)

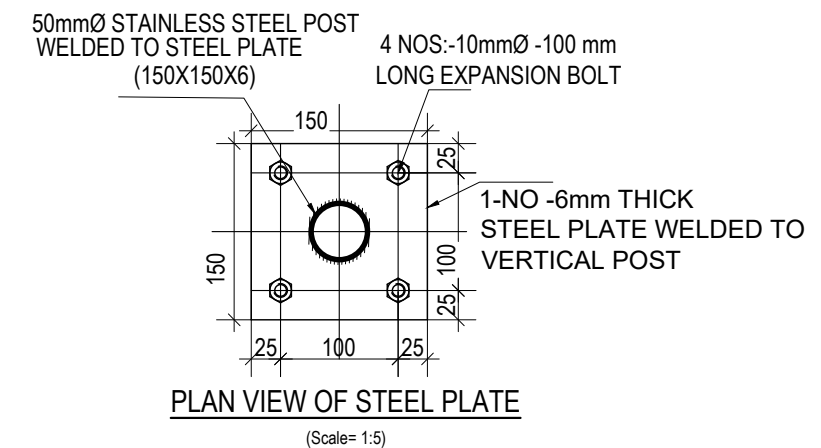
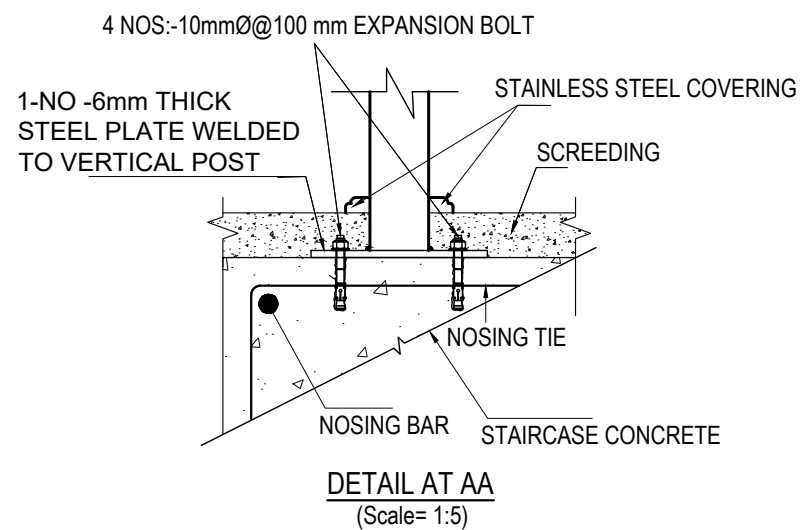


STAIRCASE SECTION AT -R-R
(SCALE = 1:25)

CLIENT		PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM		SHEET NO.	REVISION NO.
	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Model and Big School	STAIRCASE DETAIL	A.S.K. ENGINEERING CONSULTANCY PVT. LTD.	ENGINEER:		ST-16	R-00
					ARCHITECT:		DWG CODE. 3S6R- BIG & MODEL	
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					DATE: FEBRUARY, 2023			




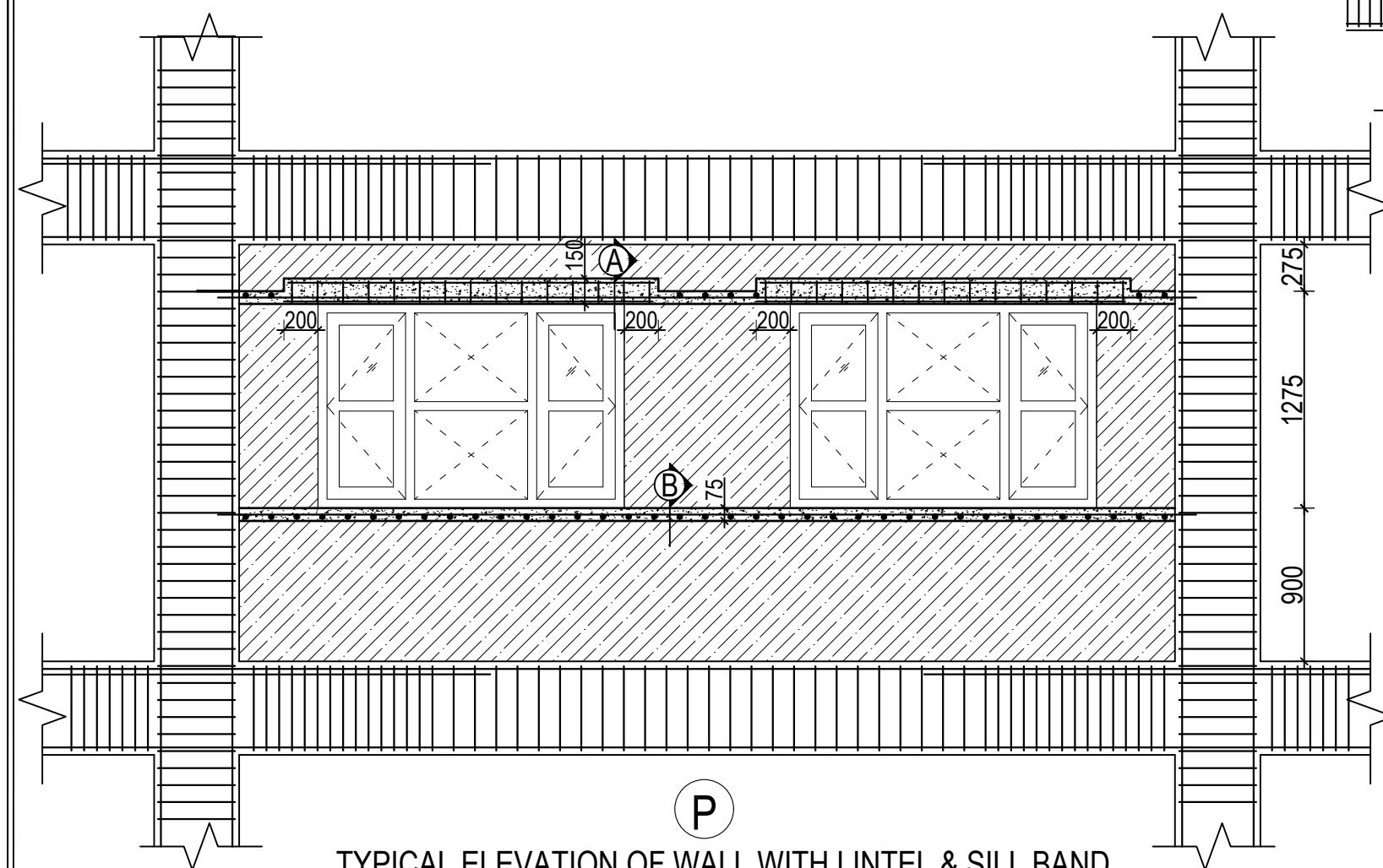
10mmØ-50 mm LONG EXPANSION BOLT
(Scale= 1:1)



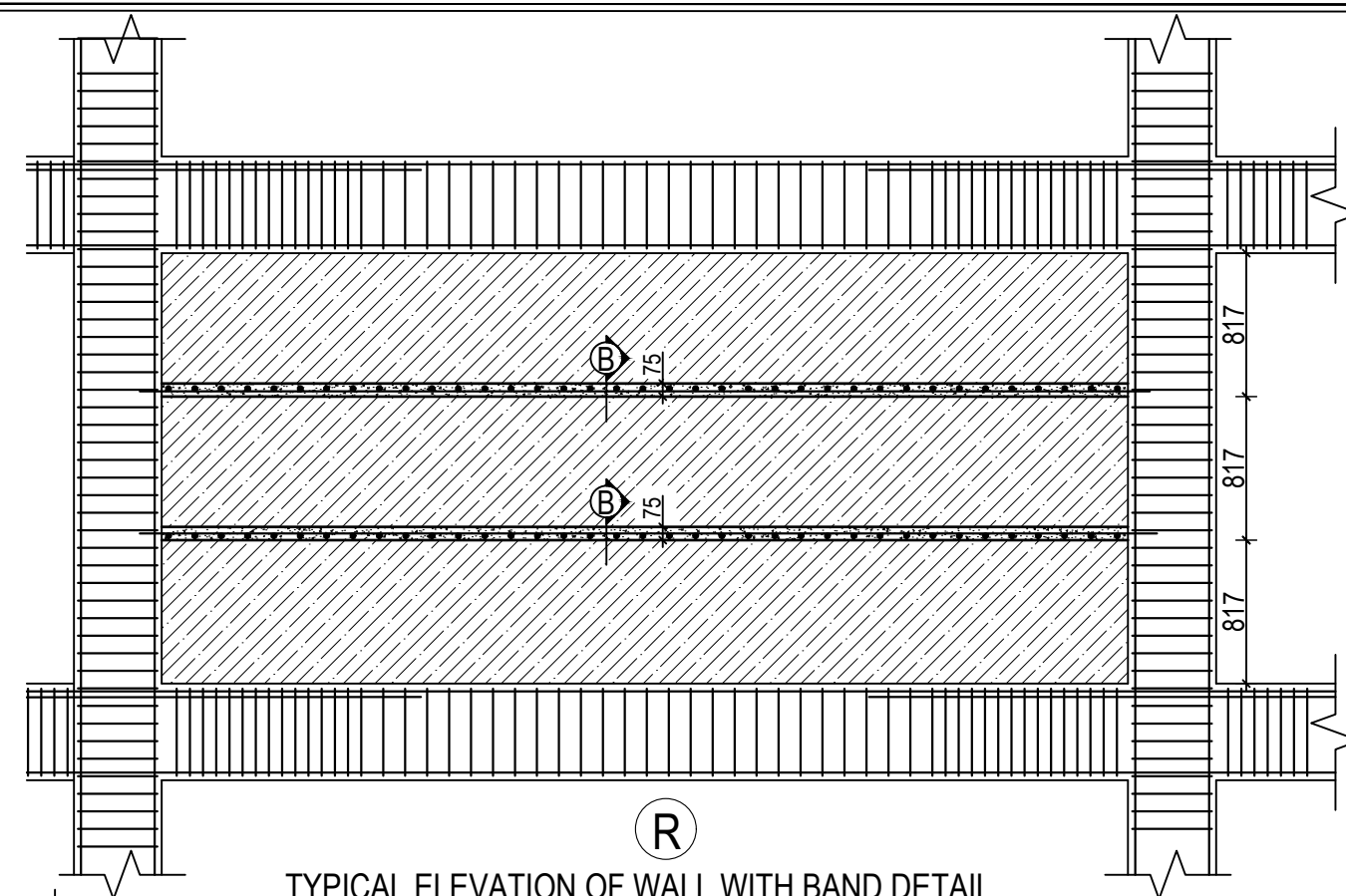
NOTE:

- 1) STAINLESS STEEL SHALL BE IN COMPLIANCE WITH ISO 304 GRADE
- 2) DRILLED HOLE SHALL BE PROPERLY CLEANED BEFORE EMBEDMENT OF BOLT

CLIENT		PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM		SHEET NO.	REVISION NO.
	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Model and Big School	STAIRCASE DETAIL	A.S.K. ENGINEERING CONSULTANCY PVT. LTD.	ENGINEER:	STRUCTURE ER. :	ST-17	R-00
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					DRAWN :	APPROVED:	DWG CODE. 3S6R- BIG & MODEL	
					SCALE : 1:120	PAPER SIZE : A3		




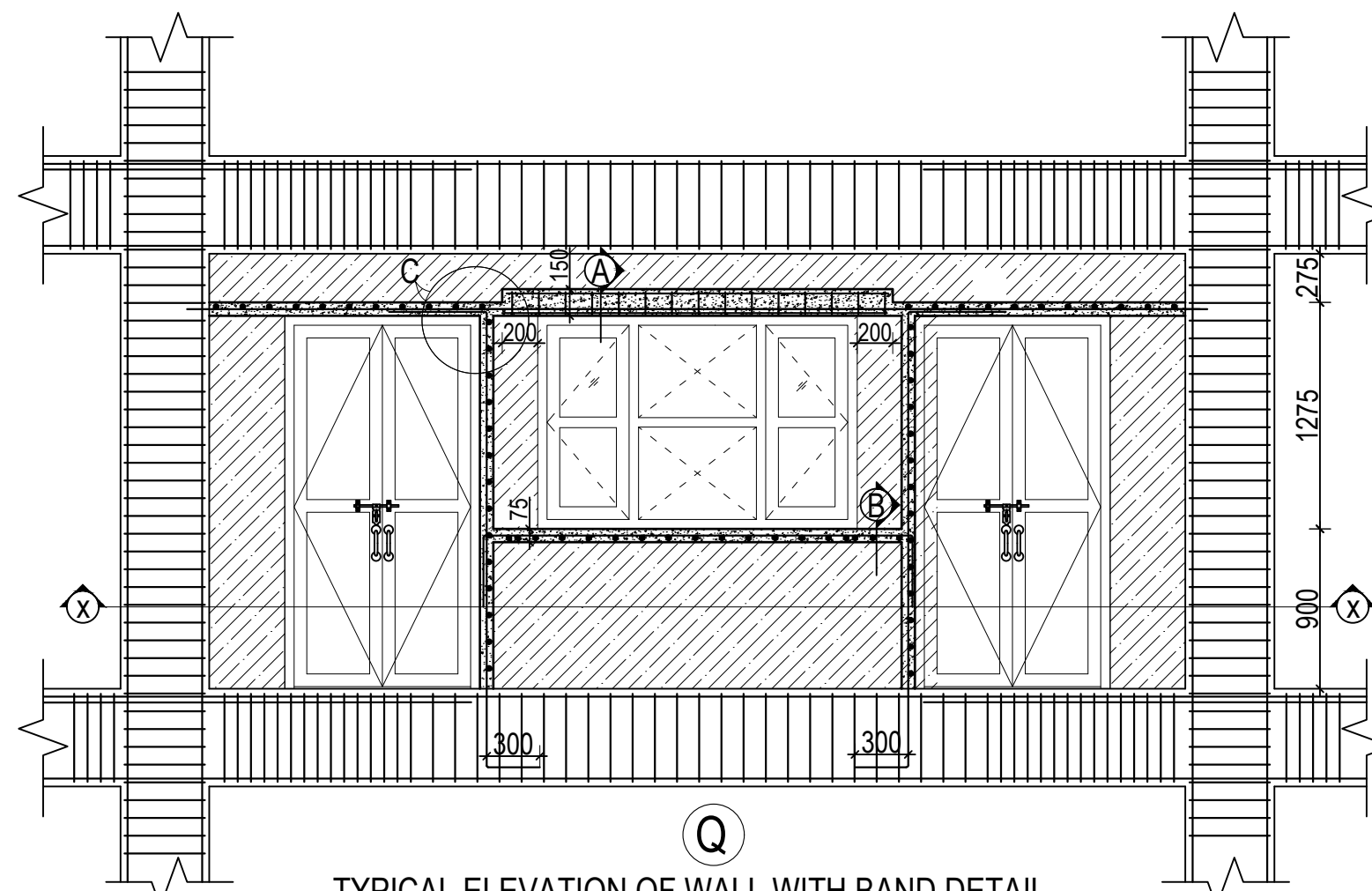
**TYPICAL ELEVATION OF WALL WITH LINTEL & SILL BAND
WITH WINDOWS**
(Scale= 1:35)



**TYPICAL ELEVATION OF WALL WITH BAND DETAIL
WITHOUT OPENINGS**
(Scale= 1:40)

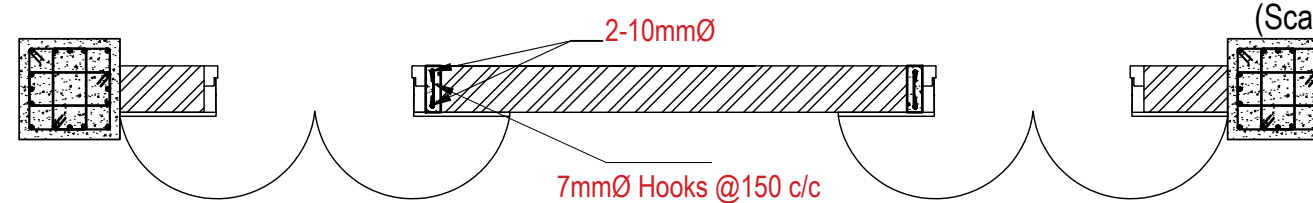
SN.	FLOOR	SECTION AT A-A	SECTION AT B-B
1.	GROUND, FIRST & SECOND FLOOR	<p>230 4NOS.-10Ø</p> <p>150 8mmØ TIES @150mm c/c 2NOS.-10Ø</p>	<p>230 2NOS.-10Ø</p> <p>75 7mmØ TIES @150mm c/c</p>
2.	THIRD FLOOR	<p>230 4NOS.-10Ø</p> <p>150 8mmØ TIES @150mm c/c 2NOS.-12Ø</p>	<p>230 2NOS.-12Ø</p> <p>75 7mmØ TIES @150mm c/c</p>

CLIENT	PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM		SHEET NO.	REVISION NO.
 <p>Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal</p>	Prepare School Building Type Design for Model and Big School	TYPICAL WALL DETAIL UPTO SECOND FLOOR	A.S.K. ENGINEERING CONSULTANCY PVT. LTD.	ENGINEER:	STRUCTURE ER. :	ST-18	R-00
				ARCHITECT:	CHECKED:	DWG CODE. 3S6R- BIG & MODEL	
				DRAWN :	APPROVED:		
				SCALE : 1:120	PAPER SIZE : A3	DATE: FEBRUARY, 2023	

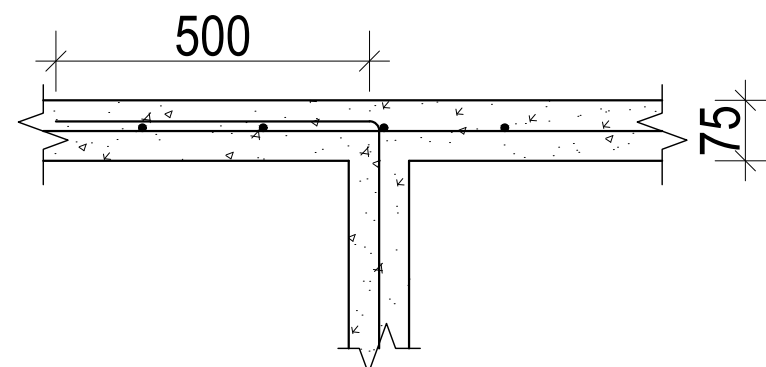


TYPICAL ELEVATION OF WALL WITH BAND DETAIL
WITH DOORS AND WINDOWS

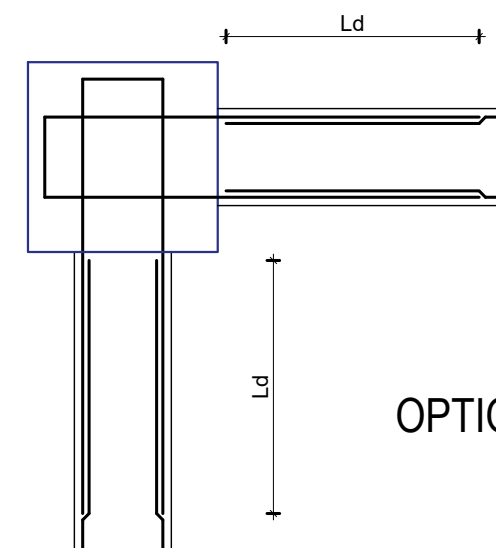
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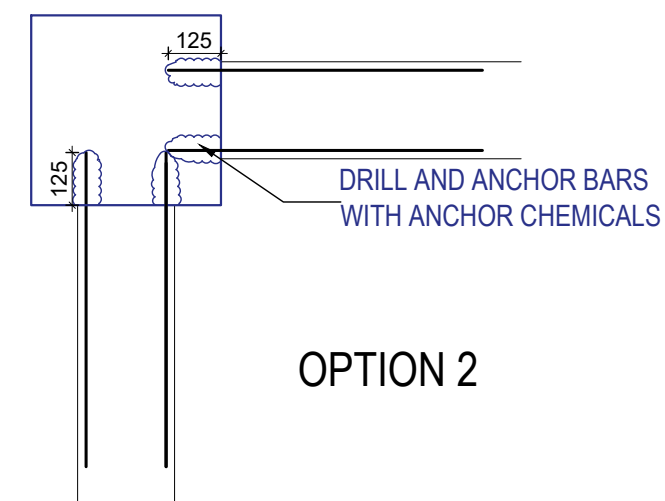
SECTION AT X-X



DETAIL AT C




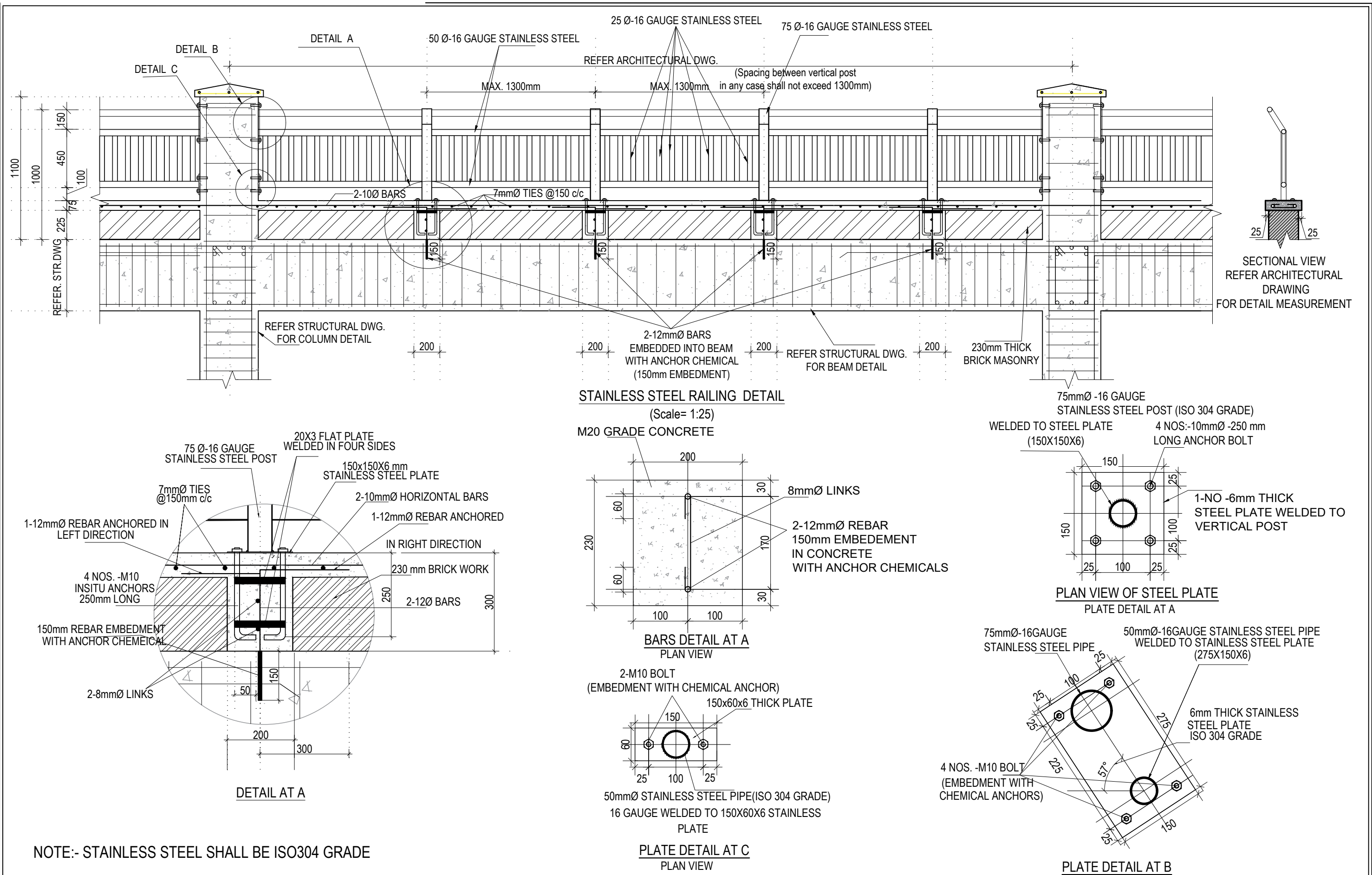
OPTION 1




OPTION 2

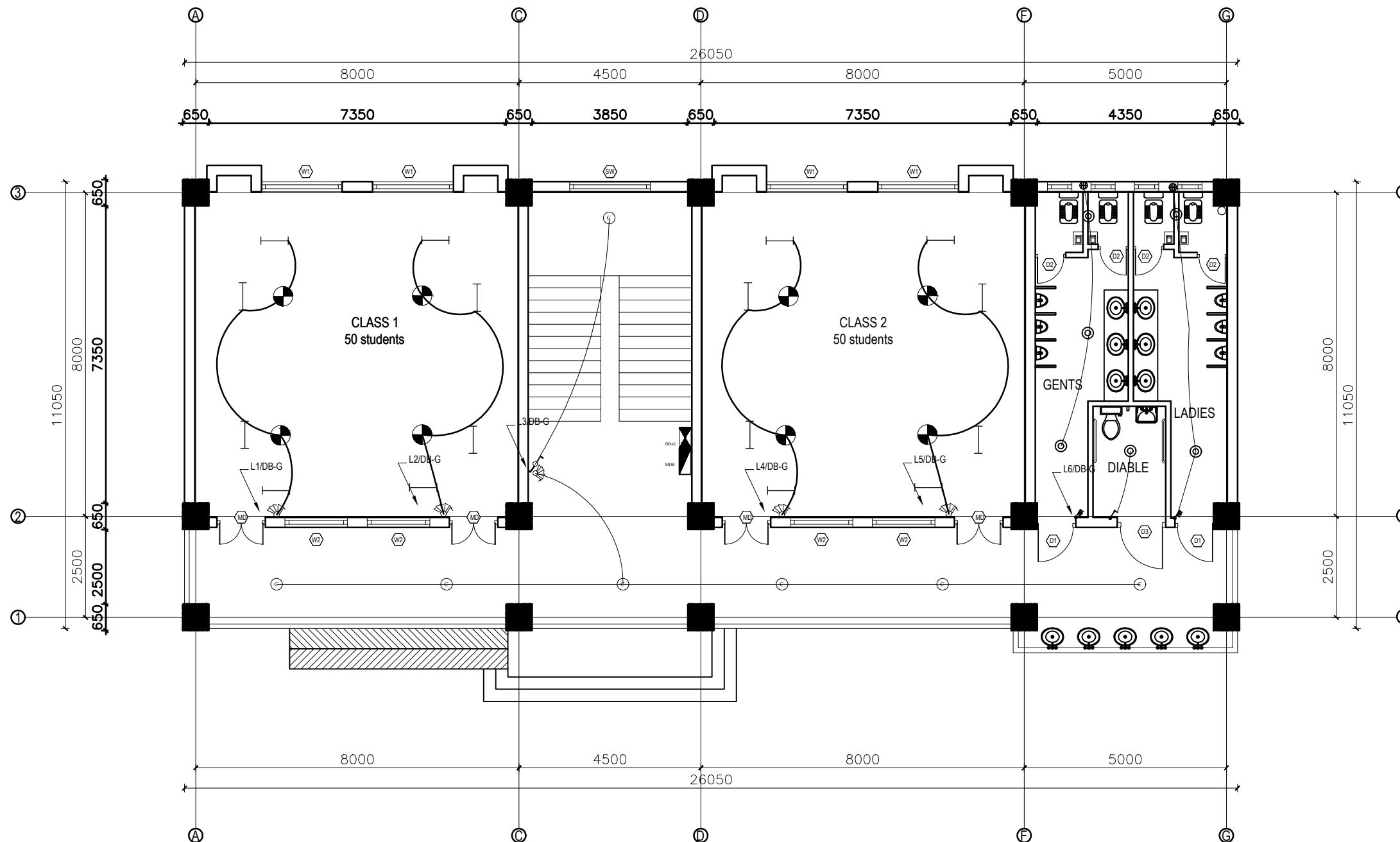
CONNECTION OF BAND REBARS AND COLUMN

CLIENT		PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM		SHEET NO.	REVISION NO.
	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Model and Big School	TYPICAL WALL DETAIL UPTO SECOND FLOOR	A.S.K. ENGINEERING CONSULTANCY PVT. LTD.	ENGINEER:		ST-19	R-00
					ARCHITECT:		DWG CODE. 3S6R- BIG & MODEL	
					DRAWN :			
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					DATE: FEBRUARY, 2023			



CLIENT	PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM		SHEET NO.	REVISION NO.
 Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanathimi, Bhaktapur, Nepal	Prepare School Building Type Design for Model and Big School	TYPICAL RAILING DETAILS	A.S.K. ENGINEERING CONSULTANCY PVT. LTD.	ENGINEER:	STRUCTURE ER. :	ST-20	R-00
				ARCHITECT:	CHECKED:	DWG CODE. 3S6R- BIG & MODEL	
				DRAWN :	APPROVED:		
				SCALE : 1:120	PAPER SIZE : A3	DATE: FEBRUARY, 2023	

ELECTRICAL DRAWING




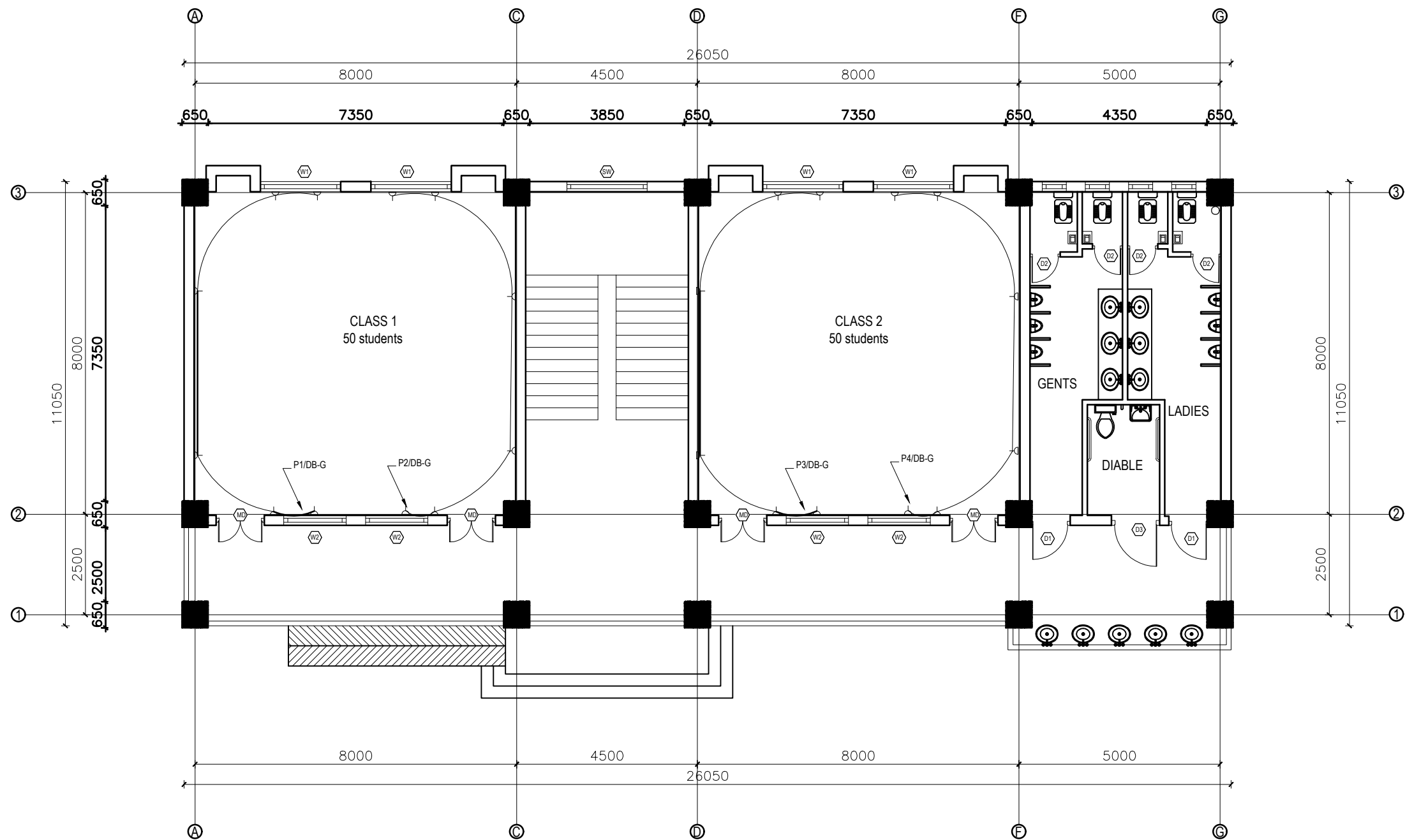
GROUND FLOOR PLAN

FLOOR AREA: 290.012 sq.m

LEGEND		
SYMBOL	DESCRIPTION	MOUNT HEIGHT
	40 W Tubelight	Attached to wall
	12W CFL Light Bulb	Attached to ceiling
	42" Ceiling Fan	Attached to ceiling
	Power Socket	300mm from finished floor level
	1,2,3 gang Switch	1.25m above finished floor level
	4,5,6 gang Switch	1.25m above finished floor level
	Two way Switch	1.25m above finished floor level
	Distribution Box	2.5m above finished floor level
	MDB	1m above finished floor level
	9" Exhaust Fan	24" BELOW SLAB

EARTHING & LIGHTNING PROTECTION SYSTEM		
SYMBOLS	DESCRIPTION	MOUNTING HEIGHT
	VERTICAL AIR TERMINAL	--
	CLIP TO HOLD DOWN CONDUCTOR	--
	EARTH TEST LINK	--
	EARTH PIT	--

CLIENT		PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM		SHEET NO. 01	REVISION NO. R-00
	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Big and Model School	ELECTRICAL DRAWING	A.S.K. ENGINEERING CONSULTANCY PVT.LTD.	ENGINEER:	STRUCTURE ER. :	DWG CODE. 3S6R-BIG & VALLEY	
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					DRAWN :	APPROVED:		
					SCALE : PAPER SIZE : A3	DATE: FEBRUARY, 2023		




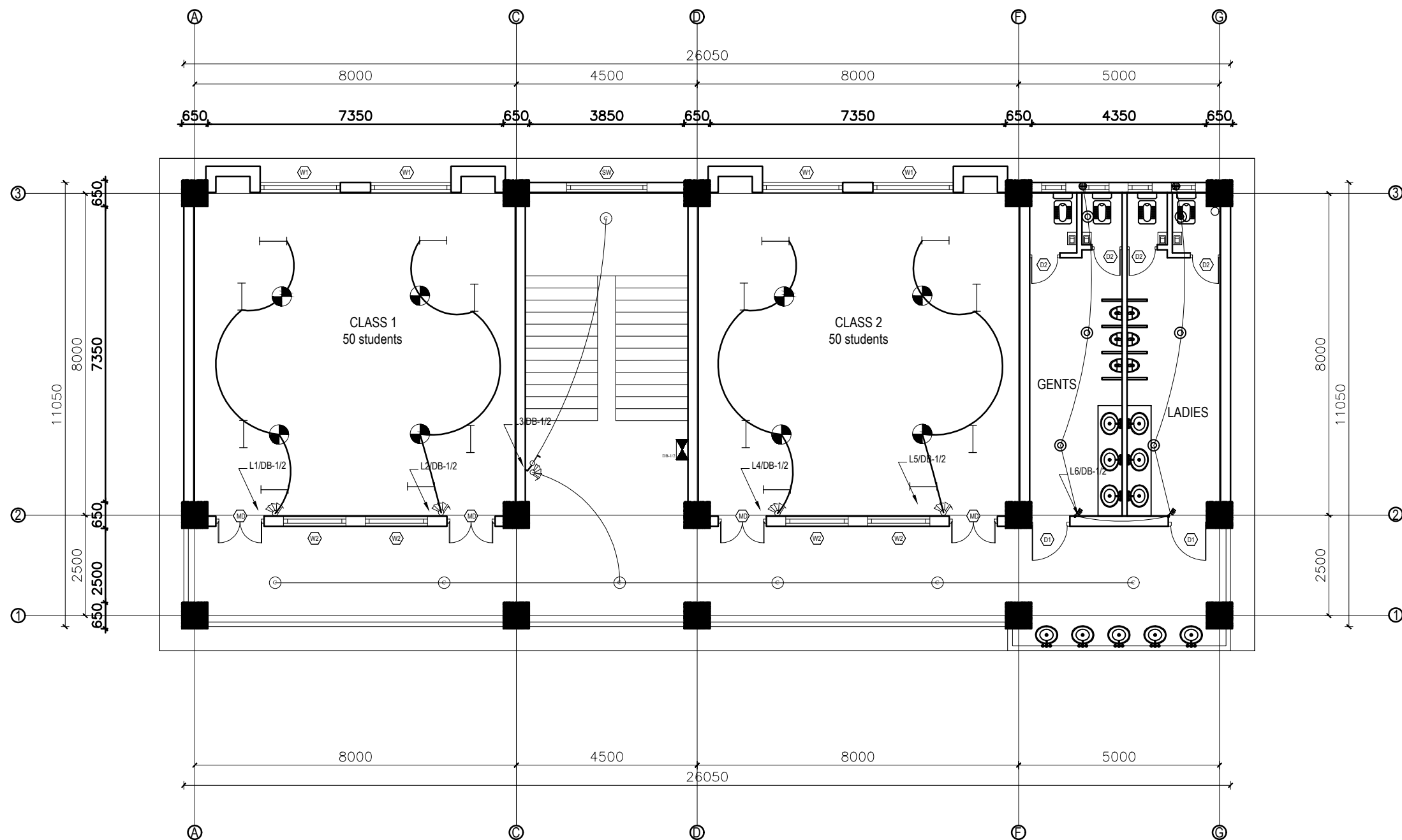
GROUND FLOOR PLAN

FLOOR AREA: 290.012 sq.m

LEGEND		
SYMBOL	DESCRIPTION	MOUNT HEIGHT
—	40 W Tubelight	Attached to wall
⊙	12W CFL Light Bulb	Attached to ceiling
⊙	42" Ceiling Fan	Attached to ceiling
⊙	Power Socket	300mm from finished floor level
⊙	1,2,3 gang Switch	1.25m above finished floor level
⊙	4,5,6 gang Switch	1.25m above finished floor level
⊙	Two way Switch	1.25m above finished floor level
⊙	Distribution Box	2.5m above finished floor level
⊙	MDB	1m above finished floor level
⊙	9" Exhaust Fan	24" BELOW SLAB

EARTHING & LIGHTNING PROTECTION SYSTEM		
SYMBOLS	DESCRIPTION	MOUNTING HEIGHT
⊙	VERTICAL AIR TERMINAL	-
⊙	CLIP TO HOLD DOWN CONDUCTOR	-
⊙	EARTH TEST LINK	-
⊙	EARTH PIT	-


CLIENT		PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM		SHEET NO. 02	REVISION NO. R-00	
	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Big and Model School	ELECTRICAL DRAWING	A.S.K. ENGINEERING CONSULTANCY PVT.LTD.	ENGINEER:		STRUCTURE ER. :		
					ARCHITECT:		CHECKED:		
					DRAWN :		APPROVED:		
					SCALE :	PAPER SIZE : A3	DATE: FEBRUARY, 2023		
								DWG CODE. 3S6R-BIG & VALLEY	

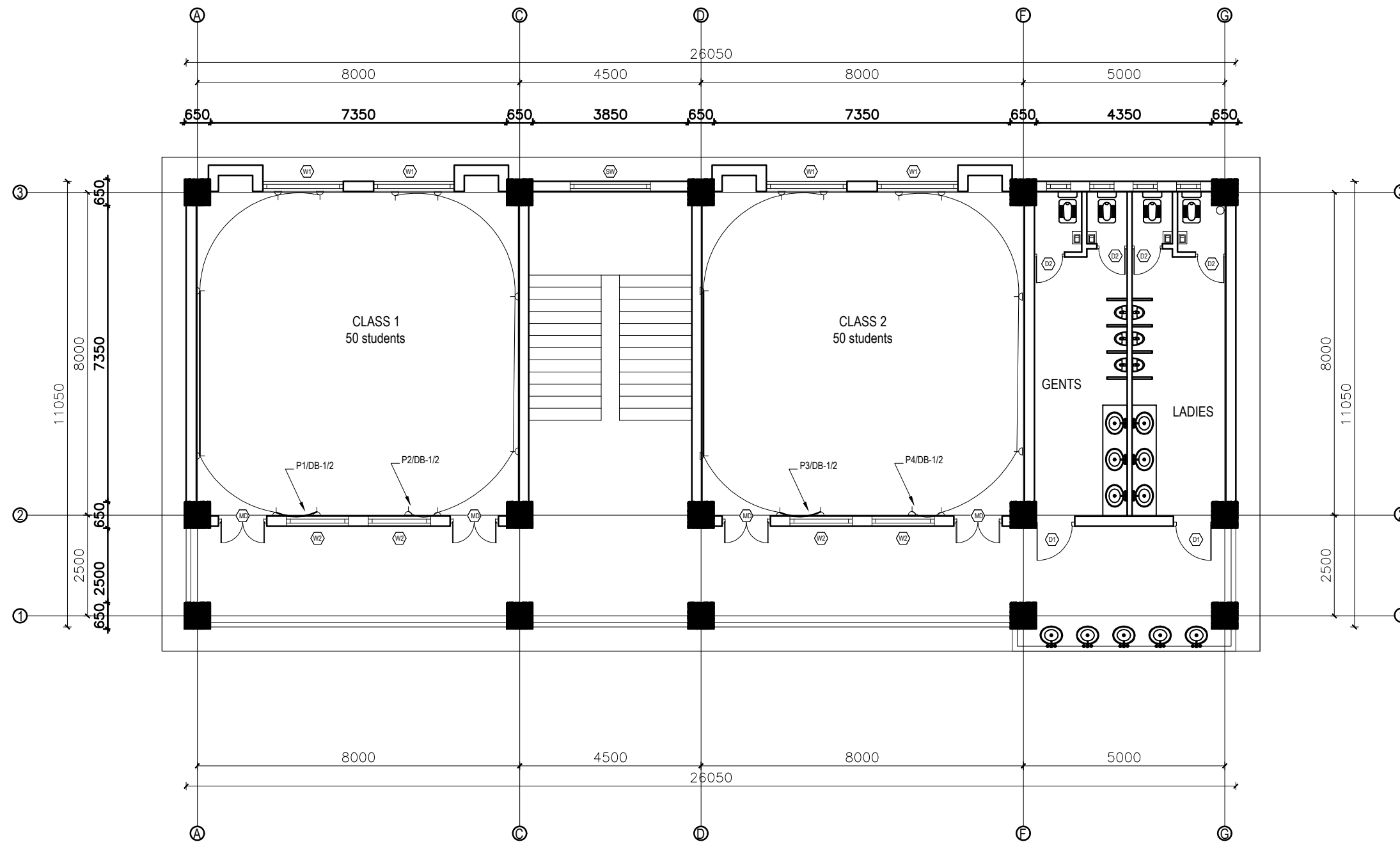


FIRST & SECOND FLOOR PLAN
FLOOR AREA: 290.012 sq.m

LEGEND		
SYMBOL	DESCRIPTION	MOUNT HEIGHT
	40 W Tubelight	Attached to wall
	12W CFL Light Bulb	Attached to ceiling
	42" Ceiling Fan	Attached to ceiling
	Power Socket	300mm from finished floor level
	1,2,3 gang Switch	1.25m above finished floor level
	4,5,6 gang Switch	1.25m above finished floor level
	Two way Switch	1.25m above finished floor level
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	MDB	1m above finished floor level
	9" Exhaust Fan	24" BELOW SLAB

EARTHING & LIGHTNING PROTECTION SYSTEM		
SYMBOLS	DESCRIPTION	MOUNTING HEIGHT
	VERTICAL AIR TERMINAL	--
	CLIP TO HOLD DOWN CONDUCTOR	--
	EARTH TEST LINK	--
	EARTH PIT	--


CLIENT		PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM		SHEET NO. 03	REVISION NO. R-00
	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Big and Model School	ELECTRICAL DRAWING	A.S.K. ENGINEERING CONSULTANCY PVT.LTD.	ENGINEER:		STRUCTURE ER. :	
					ARCHITECT:		CHECKED:	
					DRAWN :		APPROVED:	
					SCALE :	PAPER SIZE : A3	DATE: FEBRUARY, 2023	
DWG CODE. 3S6R-BIG & VALLEY								

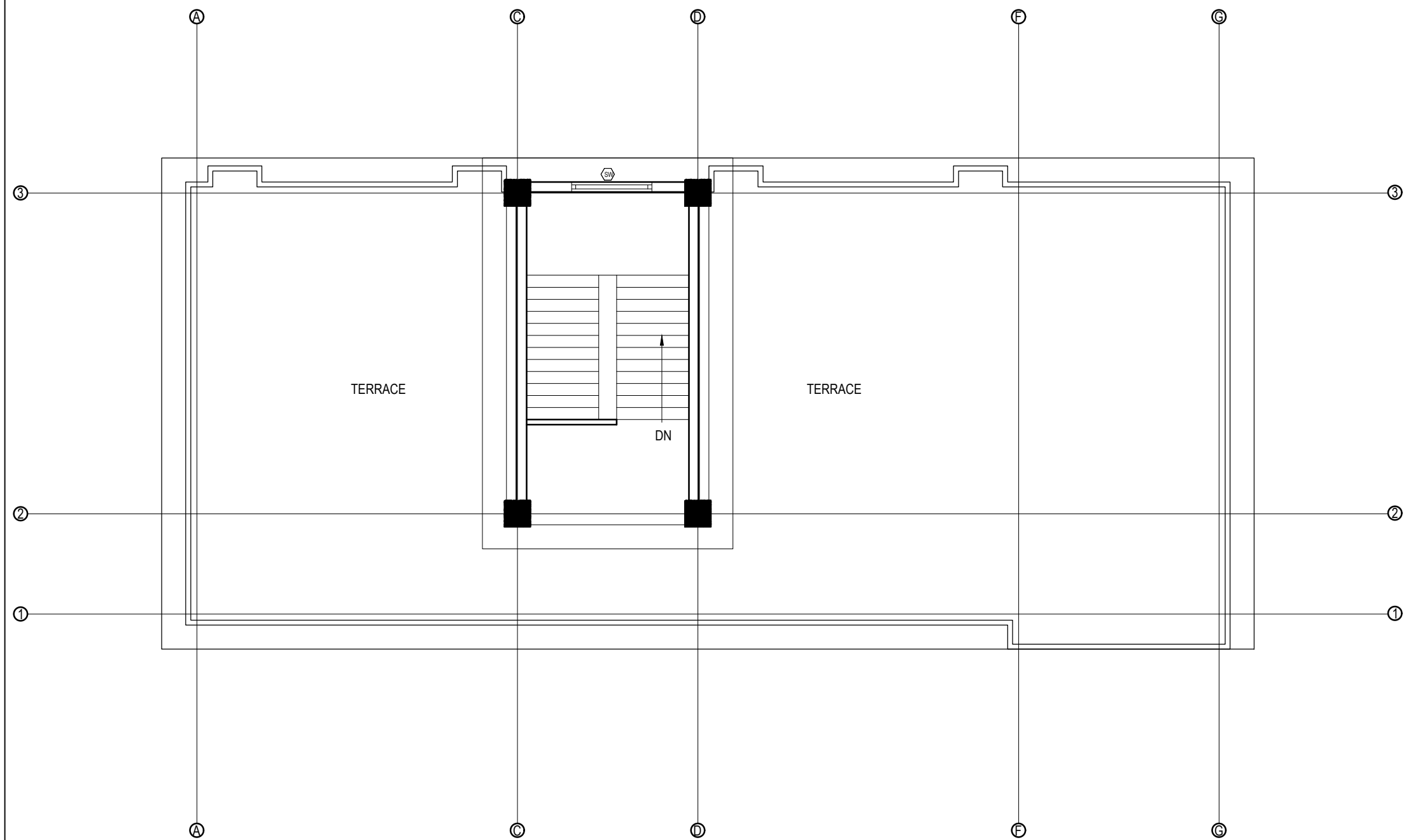


LEGEND		
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	42\" Ceiling Fan	Attached to ceiling
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	9\" Exhaust Fan	24\" BELOW SLAB

EARTHING & LIGHTNING PROTECTION SYSTEM		
SYMBOLS	DESCRIPTION	MOUNTING HEIGHT
	VERTICAL AIR TERMINAL	--
	CLIP TO HOLD DOWN CONDUCTOR	--
	EARTH TEST LINK	--
	EARTH PIT	--

FIRST & SECOND FLOOR PLAN
FLOOR AREA: 290.012 sq.m

CLIENT		PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM		SHEET NO. 04	REVISION NO. R-00
	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Big and Model School	ELECTRICAL DRAWING	A.S.K. ENGINEERING CONSULTANCY PVT.LTD.	ENGINEER:	STRUCTURE ER. :	DWG CODE. 3S6R-BIG & VALLEY	
					ARCHITECT:	CHECKED:		
					DRAWN :	APPROVED:		
					SCALE : PAPER SIZE : A3	DATE: FEBRUARY, 2023		



TOP FLOOR PLAN
FLOOR AREA: 43.17 sq.m

LEGEND		
SYMBOL	DESCRIPTION	MOUNT HEIGHT
	40 W Tubelight	Attached to wall
	12W CFL Light Bulb	Attached to ceiling
	42\" Ceiling Fan	Attached to ceiling
	Power Socket	300mm from finished floor level
	1,2,3 gang Switch	1.25m above finished floor level
	4,5,6 gang Switch	1.25m above finished floor level
	Two way Switch	1.25m above finished floor level
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	9\" Exhaust Fan	24\" BELOW SLAB

EARTHING & LIGHTNING PROTECTION SYSTEM		
SYMBOLS	DESCRIPTION	MOUNTING HEIGHT
	VERTICAL AIR TERMINAL	--
	CLIP TO HOLD DOWN CONDUCTOR	--
	EARTH TEST LINK	--
	EARTH PIT	--

CLIENT		PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM		SHEET NO. 05	REVISION NO. R-00
	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Big and Model School	ELECTRICAL DRAWING	A.S.K. ENGINEERING CONSULTANCY PVT.LTD.	ENGINEER:	STRUCTURE ER. :	DWG CODE. 3S6R- BIG & VALLEY	
					ARCHITECT:	CHECKED:		
					DRAWN :	APPROVED:		
					SCALE : PAPER SIZE : A3	DATE: FEBRUARY, 2023		

* The switch box should be at 200mm from the door and 1250mm above floor.
* General room socket height should be at 150mm above skirting wall.
* Kitchen socket height should be at 450mm above kitchen top.
* Toilet socket/switch should be at 1250mm above floor level and mirror light at 50 mm above mirror glass per mirror size.
* Exhaust fan should be at 600mm below slab.
* Wall Light should be at 2100mm from floor level.

CABLE SIZES \ PVC CON. DIA.	NO OF MAXIMUM CABLE AND PVC FRLS CONDUIT SIZES					
	16 mm Dia.	20 mm Dia.	25 mm Dia.	32 mm Dia.	40 mm Dia.	50 mm Dia.
1.5 SQ. MM/Equivalent	5	7	10	14	--	--
2.5 SQ. MM/Equivalent	3	5	8	12	--	--
4.0 SQ. MM/Equivalent	--	3	6	10	12	--
6.0 SQ. MM/Equivalent	--	2	4	8	9	--
10 SQ. MM/Equivalent	--	--	3	6	8	--
16 SQ. MM/Equivalent	--	--	2	3	4	8

INCHES	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	3-1/2	4	5	6
mm	16	20	25	32	40	50	65	80	90	100	130	150


Air Conditioner/Heater/Range/Appliances
RJ - 45 Data / TV Point
RJ -11 Telecommunication point
Telephone Point
Outdoor Gate/ Post Top/Street Lights/Flood Lights
6 Amp switched outlet sockets
16 Amp Power Sockets Points
General Light Points (From DB to Switch Board)
Looping of Light Points

2x4.0 + 1x2.5 sq. mm copper wire
CAT 6 4 pairs Data cable
CAT 6 4 pairs Data cable
0.5mm dia PVC Insulated Tinned Cu Cable
3 x 2.5 sq. mm copper M/S wire
2x2.5 + 1x1.5 sq. mm copper M/S wire
2x4.0 + 1x2.5 sq. mm copper M/S wire
2x2.5 + 1x1.5 sq. mm copper M/S wire
2x1.5 + 1x1.0 sq. mm copper M/S wire

Rating (Amp)	6	10	20	32	40	63
Wire (sq. mm)	1.5	2.5	4.0	6.0	10	16

Neutral of AC 1/3 Phase	Black
Grounding/ Bounding/Earthing	Green
loop/common wire for 2 way switch	White
Live Phase A of 3 Phase	Red
Live Phase B of 3 Phase	Yellow
Live Phase C of 3 Phase	Blue



CLIENT		PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM		SHEET NO. 06	REVISION NO. R-00
	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Big and Model School	ELECTRICAL DRAWING	A.S.K. ENGINEERING CONSULTANCY PVT.LTD.	ENGINEER:		STRUCTURE ER. :	
					ARCHITECT:		CHECKED:	
					DRAWN :		APPROVED:	
					SCALE : PAPER SIZE : A3	DATE: FEBRUARY, 2023		
DWG CODE. 3S6R-BIG & VALLEY								



Government of Nepal
Ministry of Education, Science & Technology
Center for Education and Human Resource Development
Sanothimi, Bhaktapur, Nepal

PREPARE SCHOOL BUILDING TYPE DESIGN FOR MODEL AND BIG SCHOOL

Contract ID: CEHRD/SESP/SQ/Consultancy/05/2079/080

DETAIL DESIGN AND DRAWING

**3 STORY@12 ROOM WITH
(TOILET, WASH ROOM, CHANGING ROOM & BOOK CORNER)**

SUBMITTED BY:
A.S.K. ENGINEERING CONSULTANCY PVT. LTD.

FEBRUARY, 2023

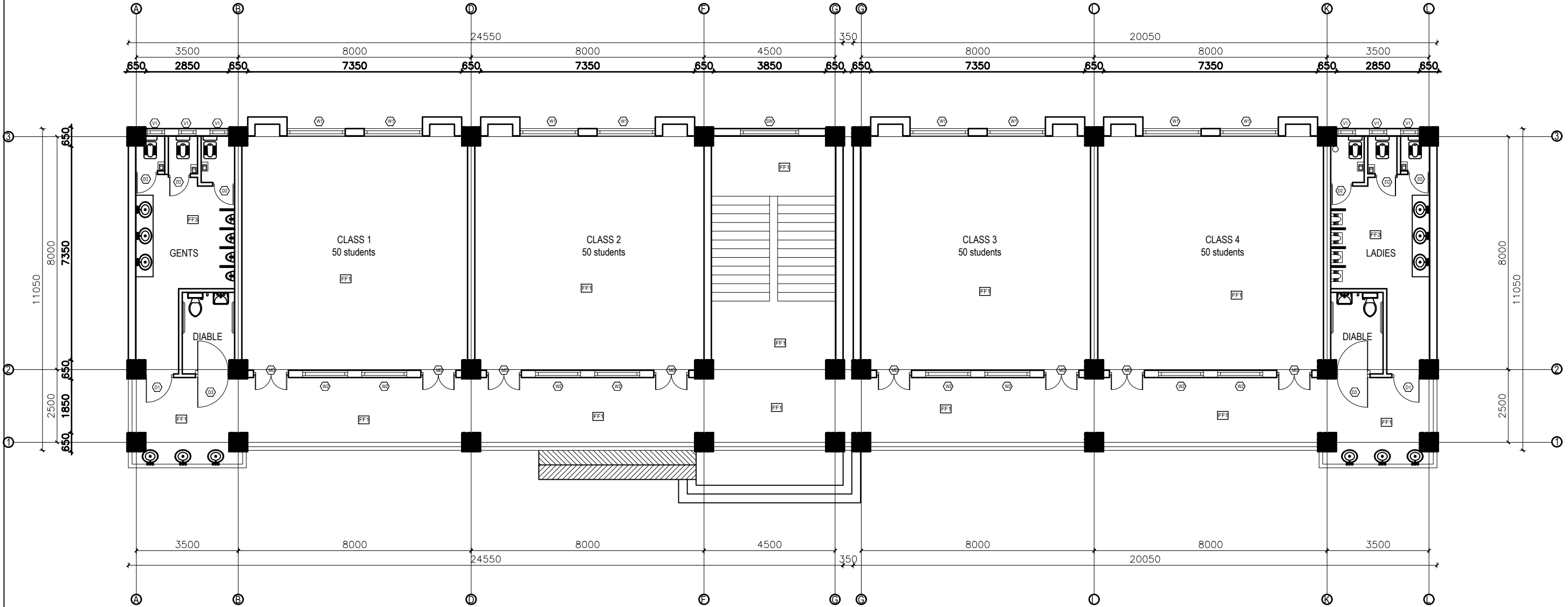
ARCHITECTURAL DRAWING

FINISHING DETAILS:

FF1	38 mm PCC (M15) with 1:1 cement punning with floor hardener (Dreitop FH, mapetop, Sika Chapdur or equivalent)
FF2	50 mm PCC (M15) with 1:1 cement punning in a 600X600 thread cut grid with floor hardener (Dreitop FH, mapetop, Sika Chapdur or equivalent) and water proofing (safe-crete or equivalent)
FF3	6 mm thick porcelain non-glaze tile with 20 mm cement sand mortar (1:4)


NOTES:

1. All measurements are in mm unless otherwise noted.
2. Architectural drawing should be read in conjunction with Structural, Sanitary and Electrical drawings.
3. Site Engineer to notify the consultant if any discrepancy in dimensions found in drawings as per the site condition.
4. Sill and Lintel dimensions are measured from the Slab Lvl.
5. Dimensions are excluding the plaster/POP thickness.



GROUND FLOOR PLAN

FLOOR AREA: 501.014 sq.m

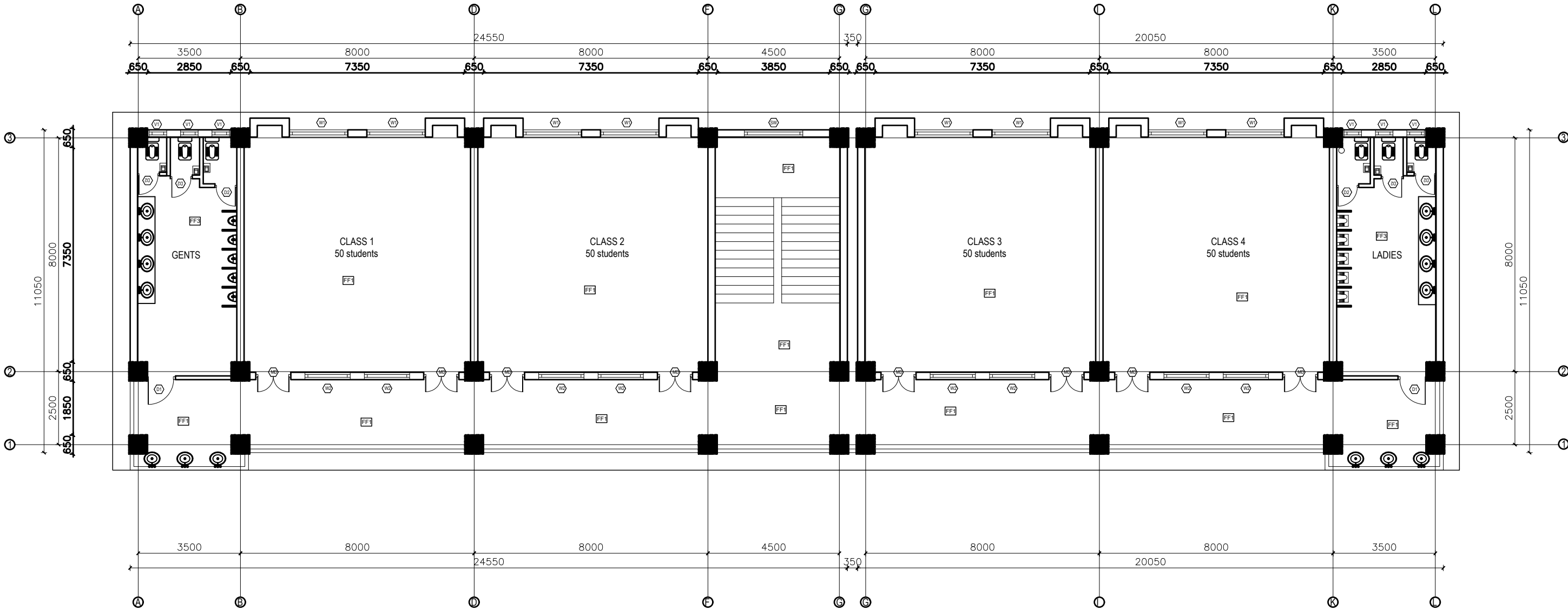
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	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Big and Model School		A.S.K. ENGINEERING CONSULTANCY PVT.LTD.	ENGINEER:		STRUCTURE ER. :		DWG CODE. 3S12R - BIG & MODEL
					ARCHITECT:		CHECKED:		
					DRAWN :		APPROVED:		
					SCALE : 1:120	PAPER SIZE : A3	DATE: FEBRUARY, 2023		

FINISHING DETAILS:


FF1	38 mm PCC (M15) with 1:1 cement punning with floor hardener (Dreitop FH, mapetop, Sika Chapdur or equivalent)
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FF3	6 mm thick porcelain non-glaze tile with 20 mm cement sand mortar (1:4)

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FIRST FLOOR PLAN
FLOOR AREA: 501.014 sq.m

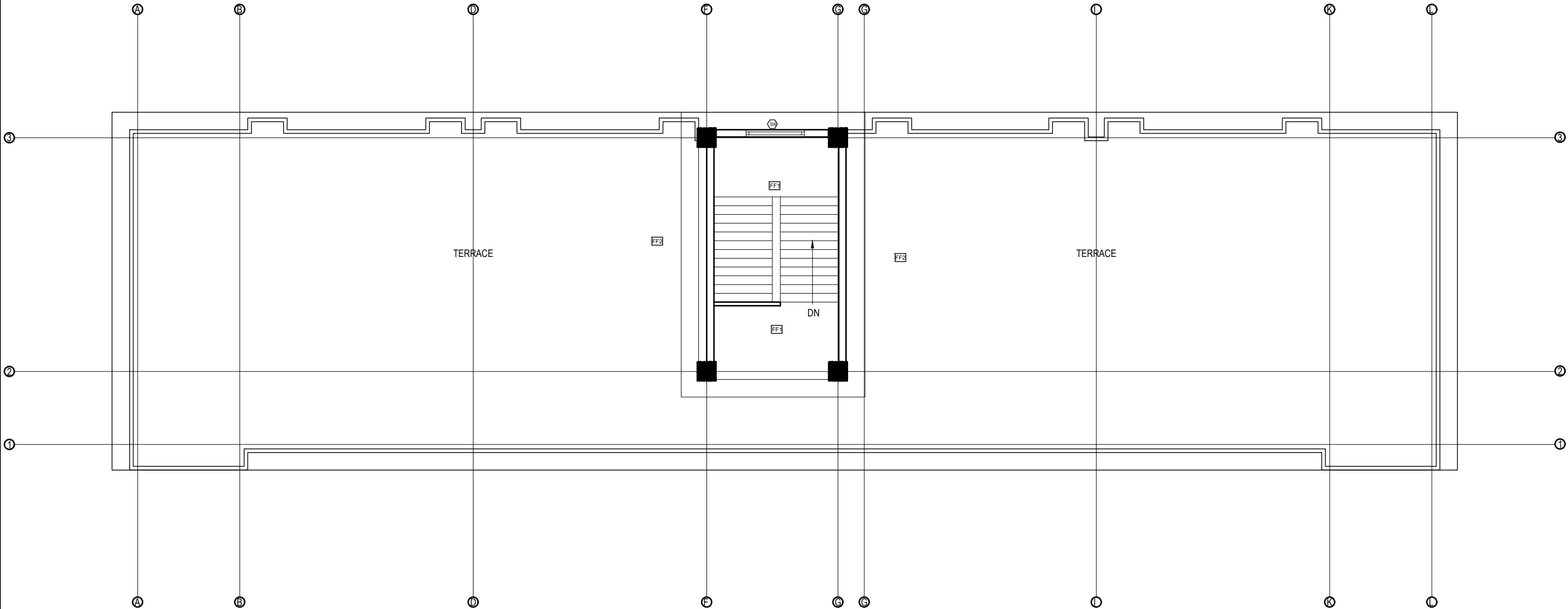
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	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Big and Model School		A.S.K. ENGINEERING CONSULTANCY PVT.LTD.	ENGINEER:		STRUCTURE ER. :		
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FF3	6 mm thick porcelain non-glaze tile with 20 mm cement sand mortar (1:4)

NOTES:

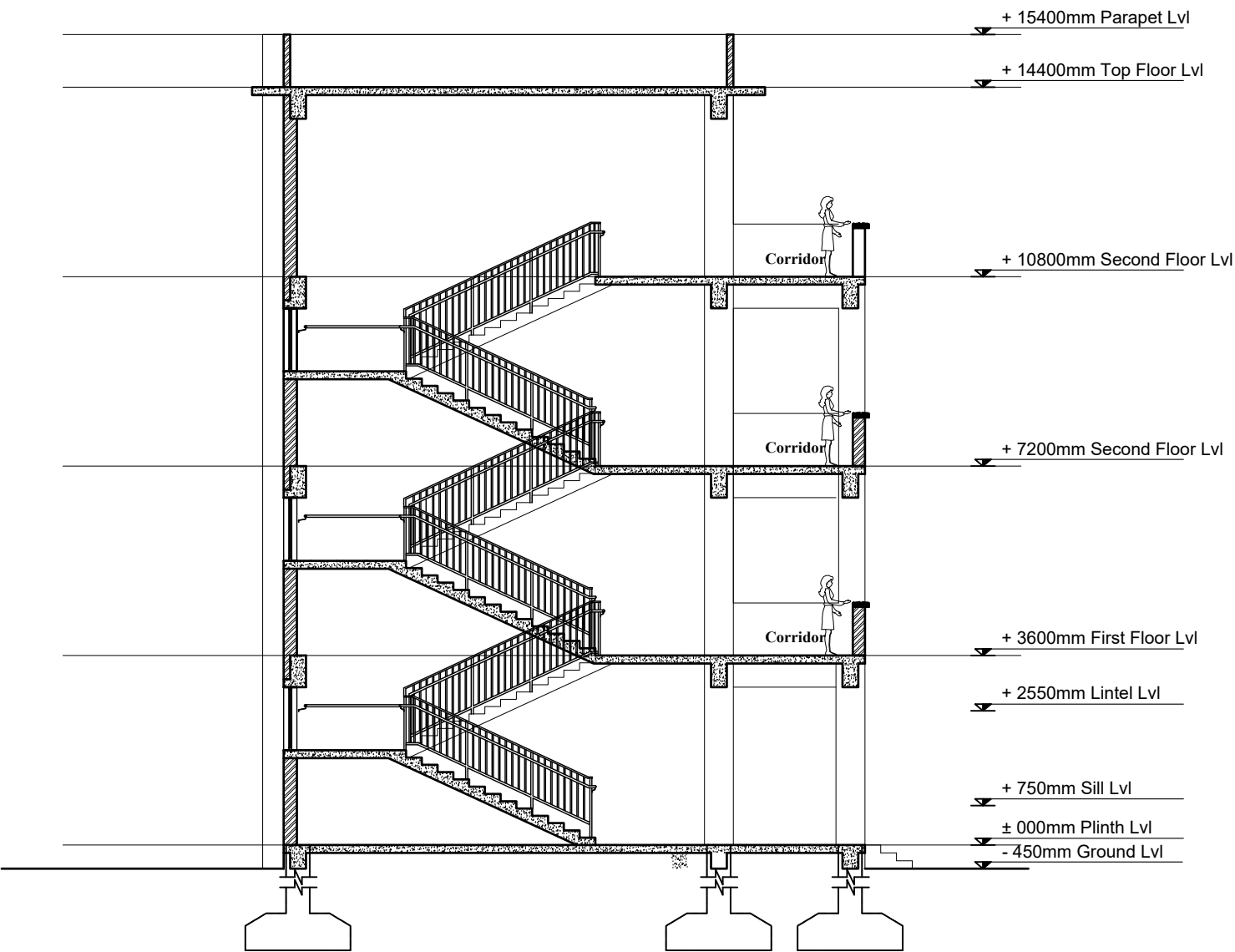
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TOP FLOOR PLAN
FLOOR AREA: 43.17 sq.m

CLIENT		PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM			SHEET NO. AR - 03	REVISION NO. R-00
	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Big and Model School		A.S.K. ENGINEERING CONSULTANCY PVT.LTD.	ENGINEER:		STRUCTURE ER. :		DWG CODE. 3S12R - BIG & MODEL
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 5. Dimensions are excluding the plaster/POP thickness.



SECTION AT A-A

OPENING SCHEDULE


S.N.	SYMBOL	SIZES	G.F.	F.F.	S.F.	TOTAL	SILL HT.	REMARKS
1.	MD	1200 x 2550	8	8	8	24	-	
2.	D1	1000 x 2550	2	2	2	6	-	
3.	D2	750 x 2100	6	6	6	18	-	
4.	D3	1200 x 2550	2			2	-	
5.	W1	1200 x 1800	8	8	8	24	750 MM	
6.	W2	1550 x 1800	4	4	4	12	750 MM	
7.	SW	2000 x 1200	1	1		2	1530 MM	
8.	V1	600 x 600	6	6	6	18	1800 MM	

CLIENT		PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM		SHEET NO. AR - 04	REVISION NO. R-00	
	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Big and Model School		A.S.K. ENGINEERING CONSULTANCY PVT.LTD.	ENGINEER:		STRUCTURE ER. :		
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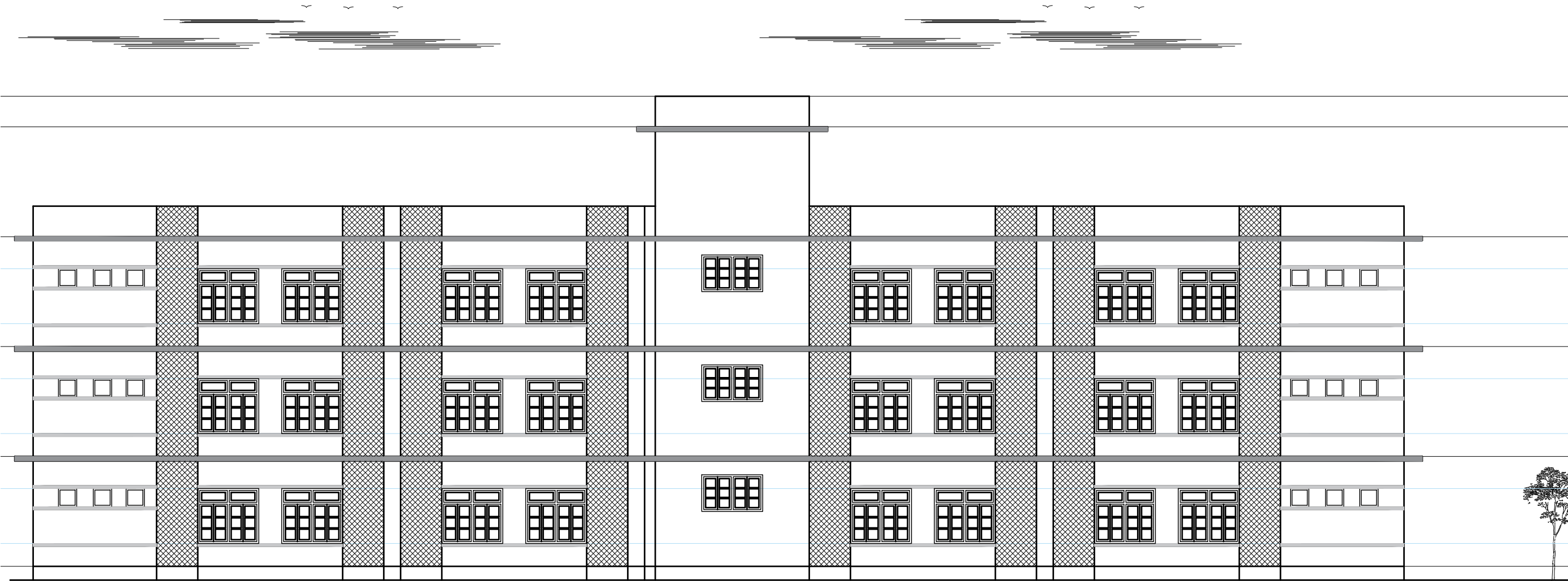
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FRONT ELEVATION

CLIENT		PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM		SHEET NO. AR - 05	REVISION NO. R-00	
	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Big and Model School		A.S.K. ENGINEERING CONSULTANCY PVT.LTD.	ENGINEER:		STRUCTURE ER. :		
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								DWG CODE. 3S12R - BIG & MODEL	

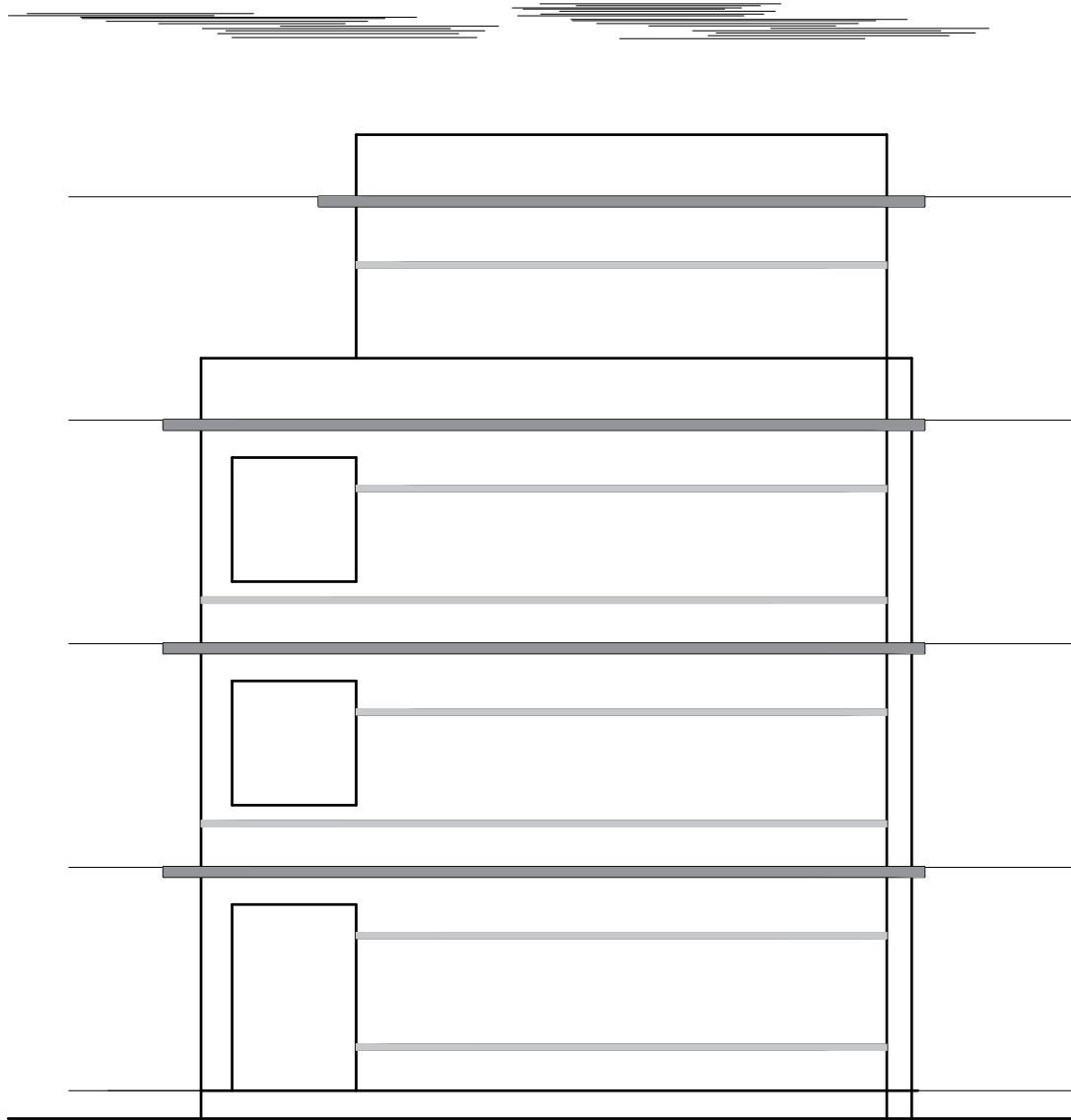
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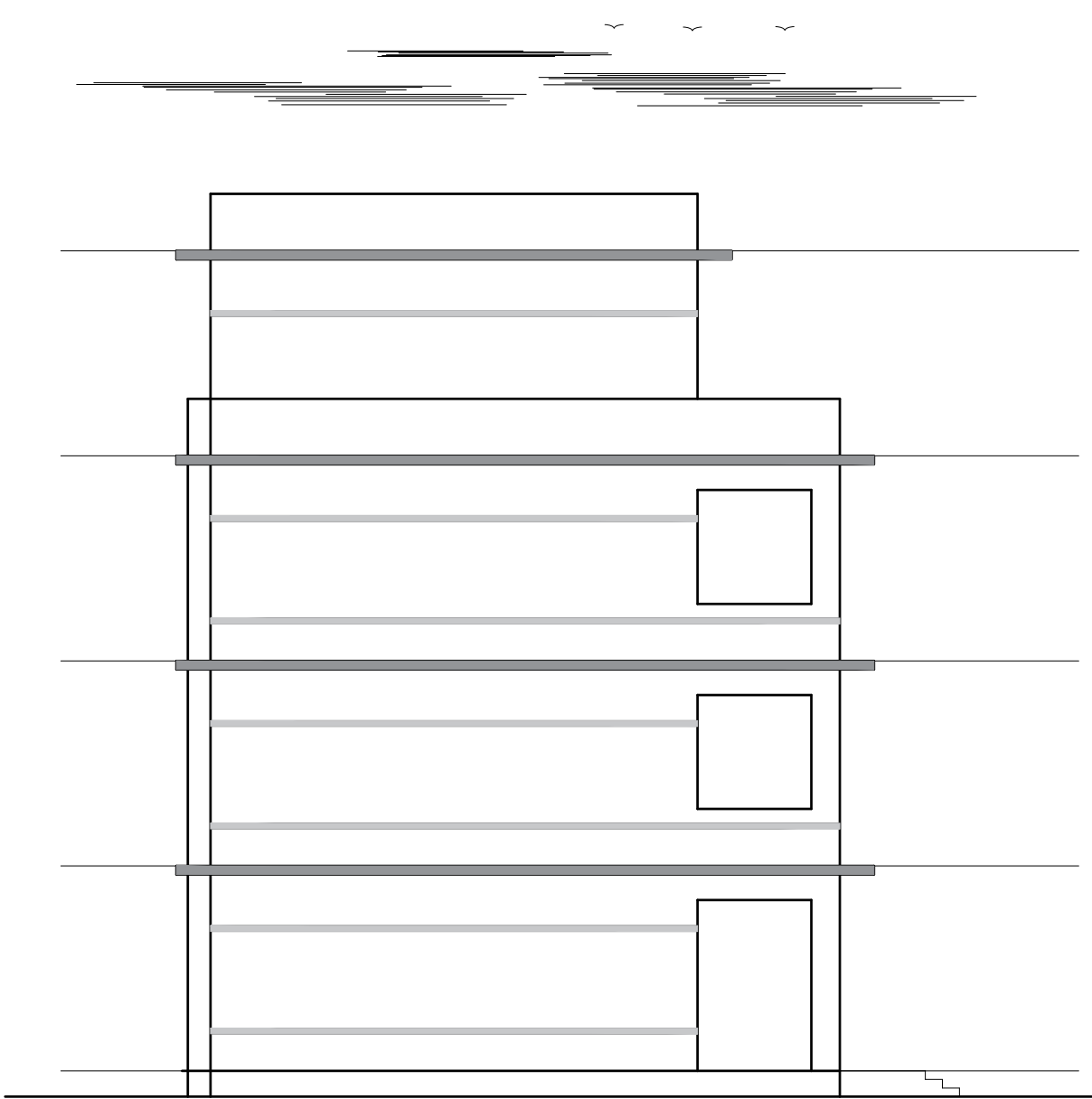
BACK ELEVATION

CLIENT		PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM		SHEET NO. AR - 06	REVISION NO. R-00	
	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Big and Model School		A.S.K. ENGINEERING CONSULTANCY PVT.LTD.	ENGINEER:		STRUCTURE ER. :		
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					DRAWN :		APPROVED:		
					SCALE : 1:120	PAPER SIZE : A3	DATE: FEBRUARY, 2023		
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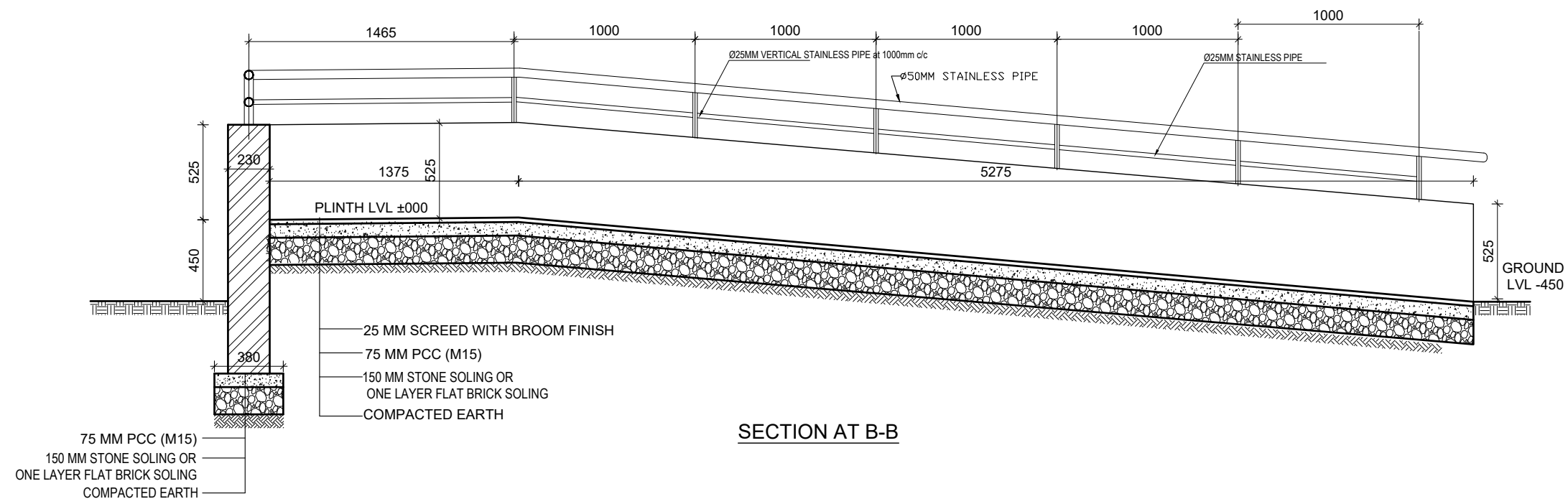
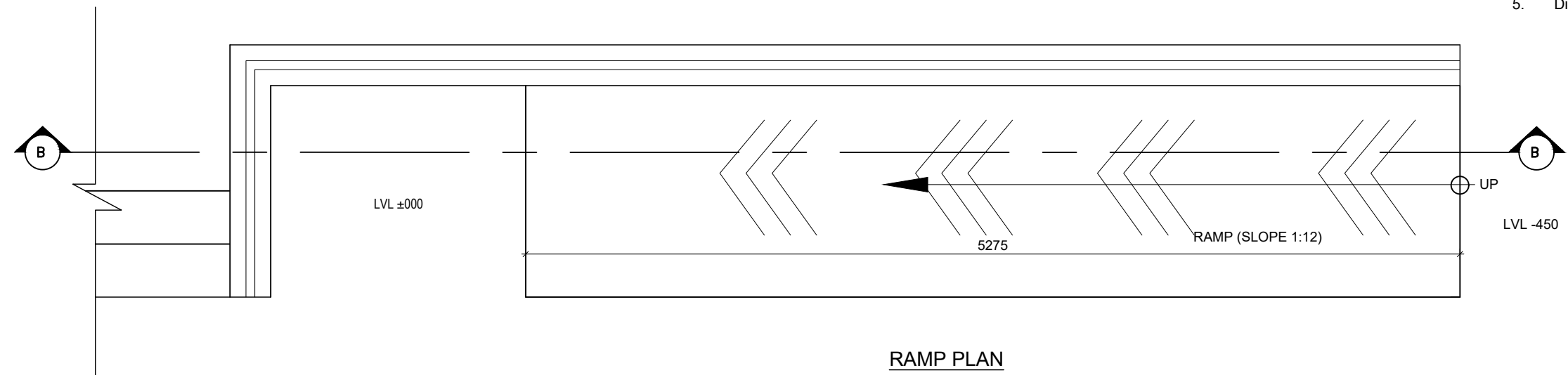
SIDE-1 ELEVATION




SIDE-2 ELEVATION

CLIENT		PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM		SHEET NO. AR - 07	REVISION NO. R-00
	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Big and Model School		A.S.K. ENGINEERING CONSULTANCY PVT.LTD.	ENGINEER:		STRUCTURE ER. :	
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DWG CODE. 3S12R - BIG & MODEL								

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CLIENT		PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM		SHEET NO. AR - 08	REVISION NO. R-00
	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Big and Model School		A.S.K. ENGINEERING CONSULTANCY PVT.LTD.	ENGINEER:		STRUCTURE ER. :	
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					DRAWN :		APPROVED:	
					SCALE : 1:120	PAPER SIZE : A3	DATE: FEBRUARY, 2023	
								DWG CODE. 3S12R - BIG & MODEL

STRUCTURAL DRAWING

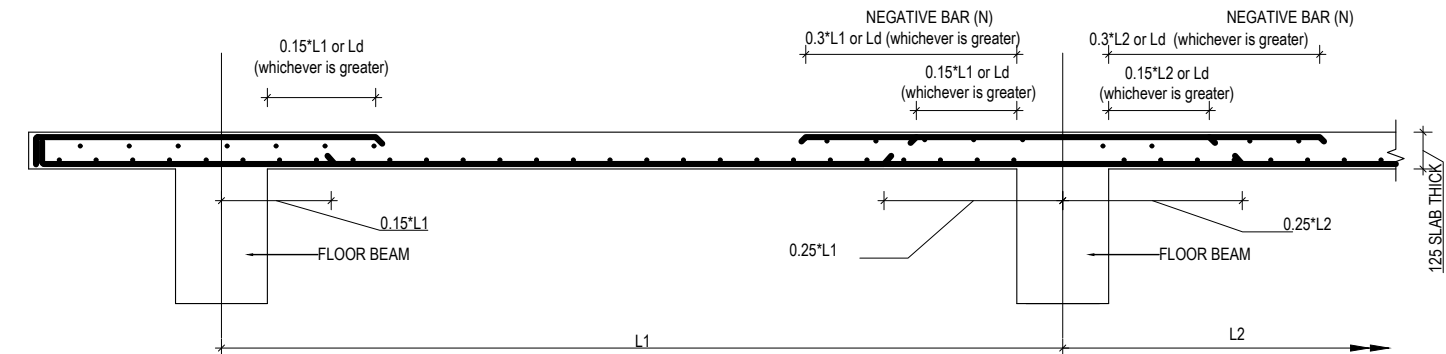
SN.	DRAWING LIST
1.	GENERAL NOTES
3.	FOOTING DETAIL FOR 100kN/m2
4.	TYPICAL FLOORING DETAIL
5.	SITE SPECIFIC DRAWING
6.	TYPICAL DETAILS OF FOUNDATION WALL
7.	COLUMN DETAIL
8.	BEAM PLAN
9.	BEAM DETAIL
10.	SLAB DETAIL
11.	STAIRCASE DETAIL
12.	BAND DETAIL
13.	RAILING DETAIL

GENERAL NOTES:

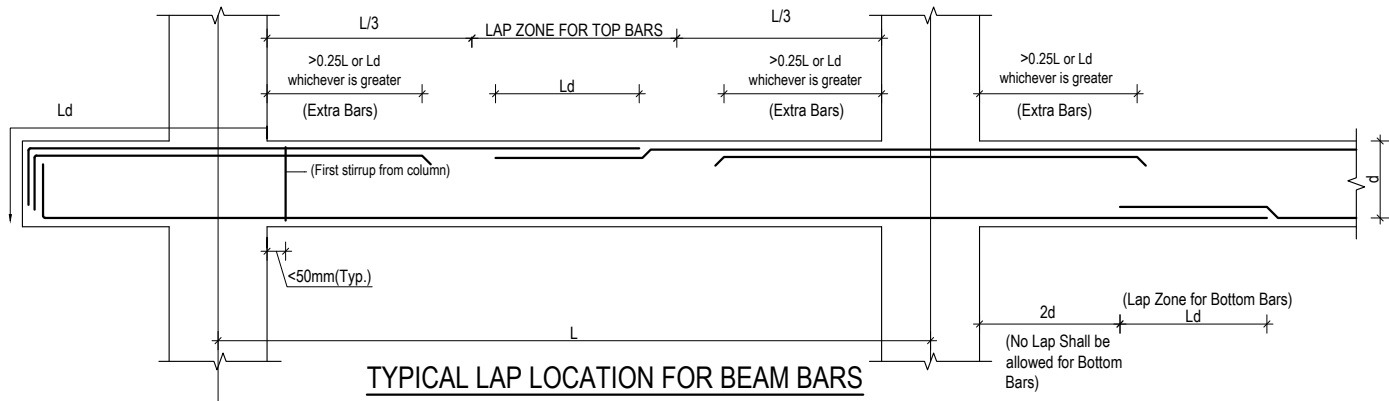
- USE M25 GRADE CONCRETE FOR SLAB, BEAM, COLUMN, FOUNDATION, SILL & LINTEL BANDS (ALL RCC WORKS)
- USE Fe500 GRADE STEEL ($f_y=500\text{N/mm}^2$)
- CLEAR COVER TO BARS
 - FOR CONCRETE MEMBERS IN CONTACT WITH SOIL = MIN 50mm
 - FOR COLUMN (FROM FACE TO LATERAL TIES) = 40mm
 - FOR BEAMS (FROM FACE TO LATERAL STIRRUPS) = 25mm
 - FOR OUTER BARS IN SLAB = 15mm
 - FOR STAIRCASE = 20mm
- BARS IN COLUMNS SHALL BE SPLICED ONLY AT MID HEIGHT OF COLUMN.
- BARS SPLICING IN BEAM SHALL BE AVOIDED IN THE SPAN WHERE INTERMEDIATE BEAM IS CONNECTED AND SHALL BE ONLY AS SHOWN IN DWG.
- DEVELOPMENT / LAP LENGTH (L_d) FOR BARS.

BAR DIA-(mm)	8	10	12	16	20	25
FOR M25 L_d	400	490	590	790	980	1230

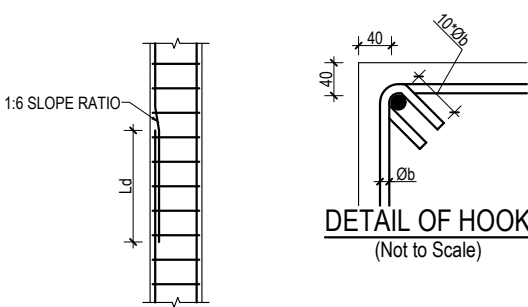
- TEMP./DISTRIBUTION REINFORCEMENT FOR SLAB - TMT 8@ 200 C/C
- CLEAR VERTICAL DISTANCE BETWEEN TWO ROWS (LAYERS) OF BARS=25mm OR MAXIMUM SIZE OF REBAR
- PROVIDE STIRRUPS OR TIES AT MIN 150 C/C AT LAP LOCATIONS IN BEAM AND AT MIN 100 C/C AT LAP LOCATION IN COLUMNS.
- FOUNDATION
 - FOUNDATION DESIGN HAVE BEEN PROVIDED FOR SAFE BEARING CAPACITY OF 100KN/m²,150kN/m² ,200KN/m².
 - IF SAFE BEARING CAPACITY OF SOIL IS FOUND LESS THAN 100KN/m², SPECIAL STUDY FOR FOUNDATION DESIGN IS REQUIRED.
- H = CLEAR SPAN OF FLOOR.
- D=DEPTH OF BEAM
- d=EFFECTIVE DEPTH OF BEAM
- L_d =DEVELOPMENT LENGHT



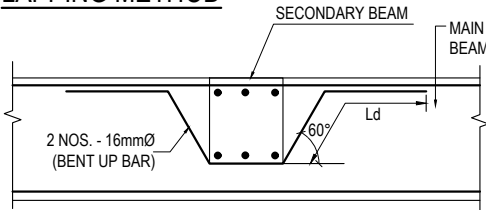
TYPICAL DETAIL FOR SLAB BARS



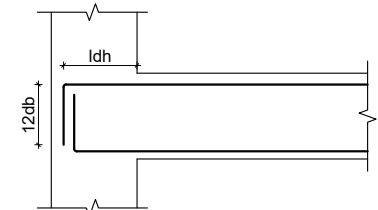
TYPICAL LAP LOCATION FOR BEAM BARS
(STIRRUPS NOT SHOWN FOR CLARITY)



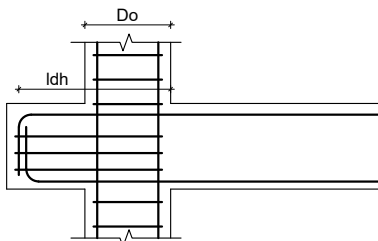
LAPPING METHOD



CONNECTION DETAIL BETWEEN
MAIN & SECONDARY BEAM



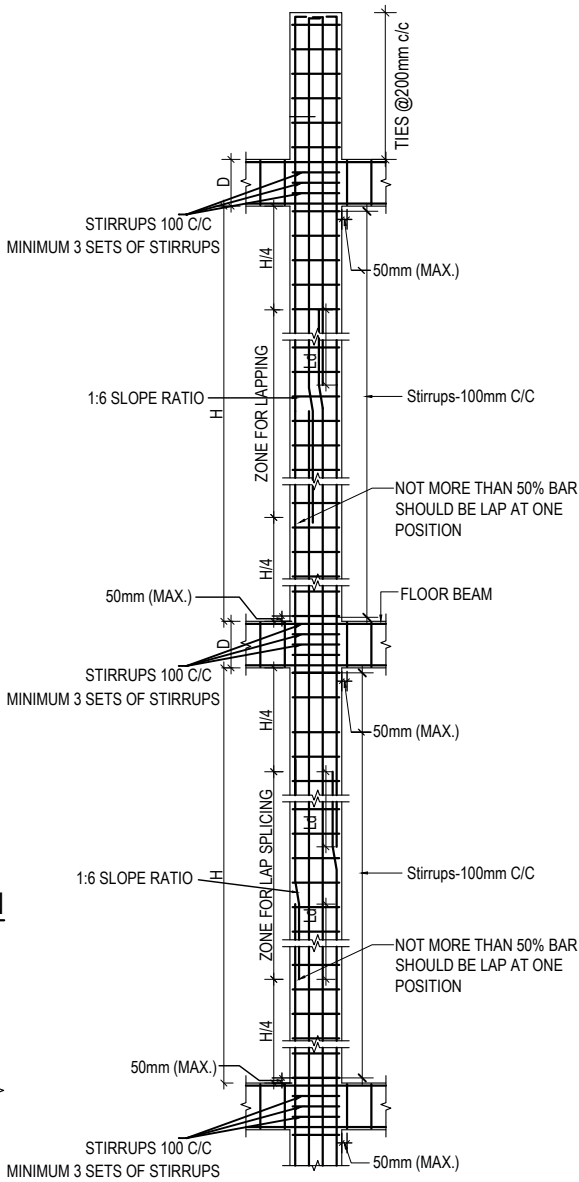
ANCHORAGE OF BEAM
LONGITUDINAL BAR IN COLUMN



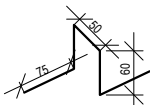
PPROVISION OF BEAM STUB

f_y N/mm ²	f_{ck} N/mm ²	d_b mm	L_{dh} mm	$12d_b$ mm
500	20	12	277	144
500	25	12	248	144
500	20	16	369	192
500	25	16	330	192
500	20	20	462	240
500	25	20	413	240
500	20	25	577	300
500	25	25	516	300


f_y = yield strength of steel
 f_{ck} = Characteristic Compressive strength of concrete
 d_b = diameter of largest longitudinal bar in beam in mm

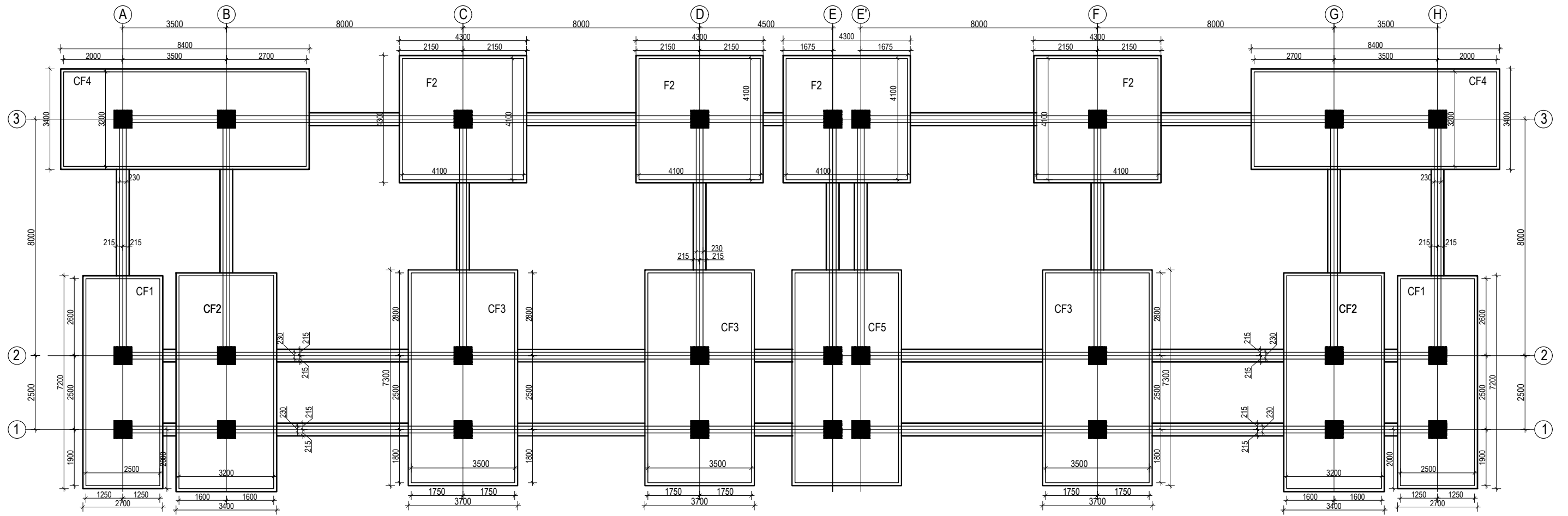


TYP. COLUMN SHEAR
REINFORCEMENT DETAIL




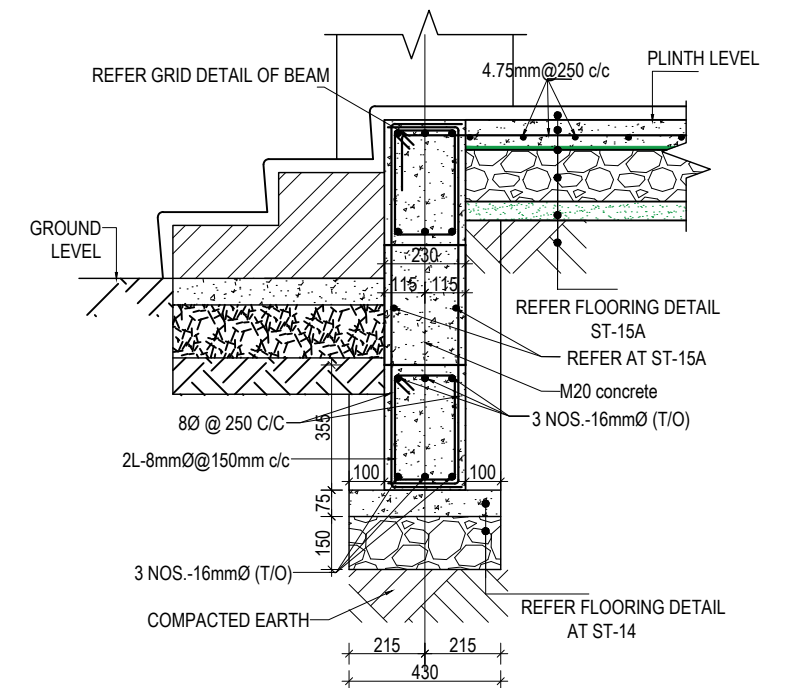
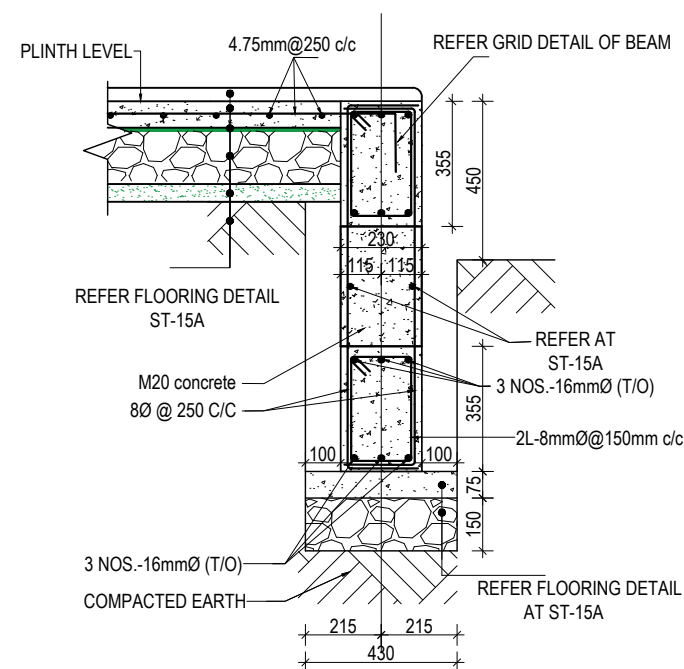
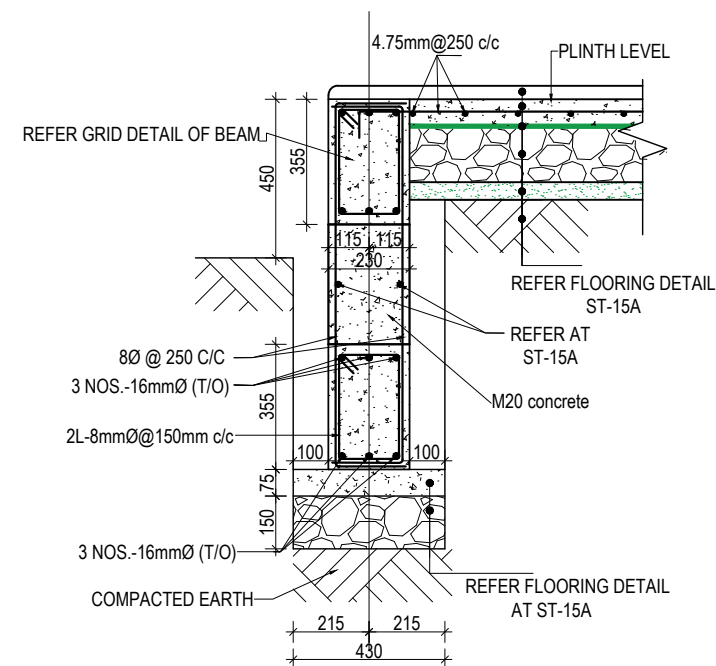
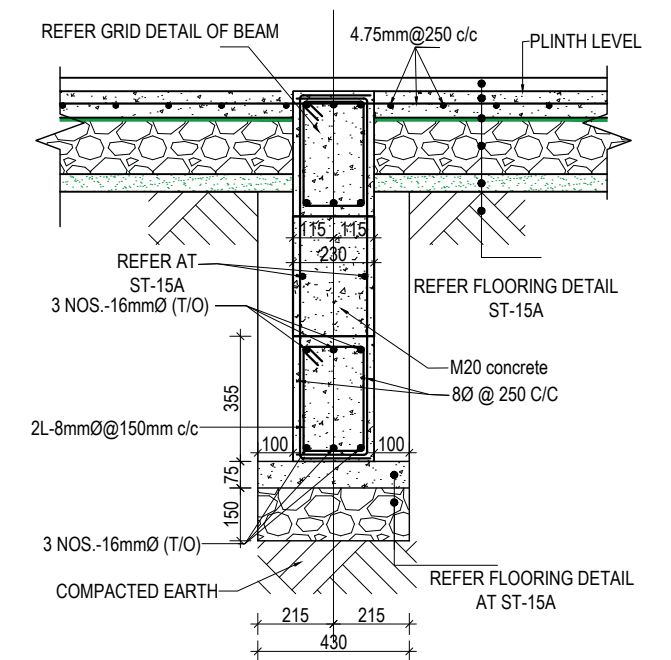
CHAIR RESTING ON BOTTOM BARS
@600 - 900 mm staggered position


CLIENT		PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM		SHEET NO.	REVISION NO.
	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Model and Big School	GENERAL NOTES	A.S.K. ENGINEERING CONSULTANCY PVT. LTD. Nepal	ENGINEER:		STRUCTURE ER. :	
	ARCHITECT:				CHECKED:			
	DRAWN :				APPROVED:			
	SCALE : 1:120				PAPER SIZE : A3	DATE: FEBRUARY, 2023		
							DWG CODE. 3S12R- BIG & MODEL	

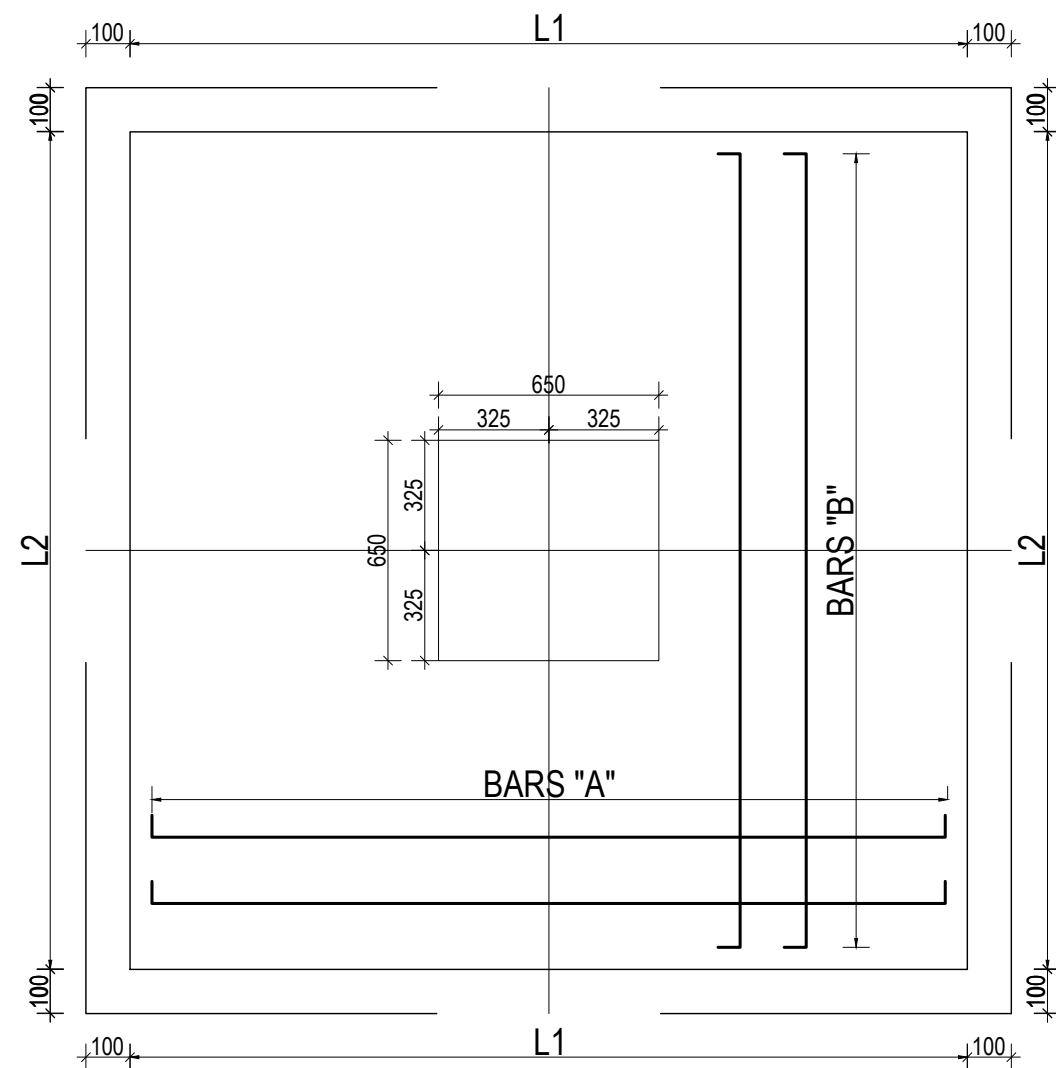


TRENCH PLAN FOR SAFE
BEARING CAPACITY 100kN/m²
(Scale= 1:100)

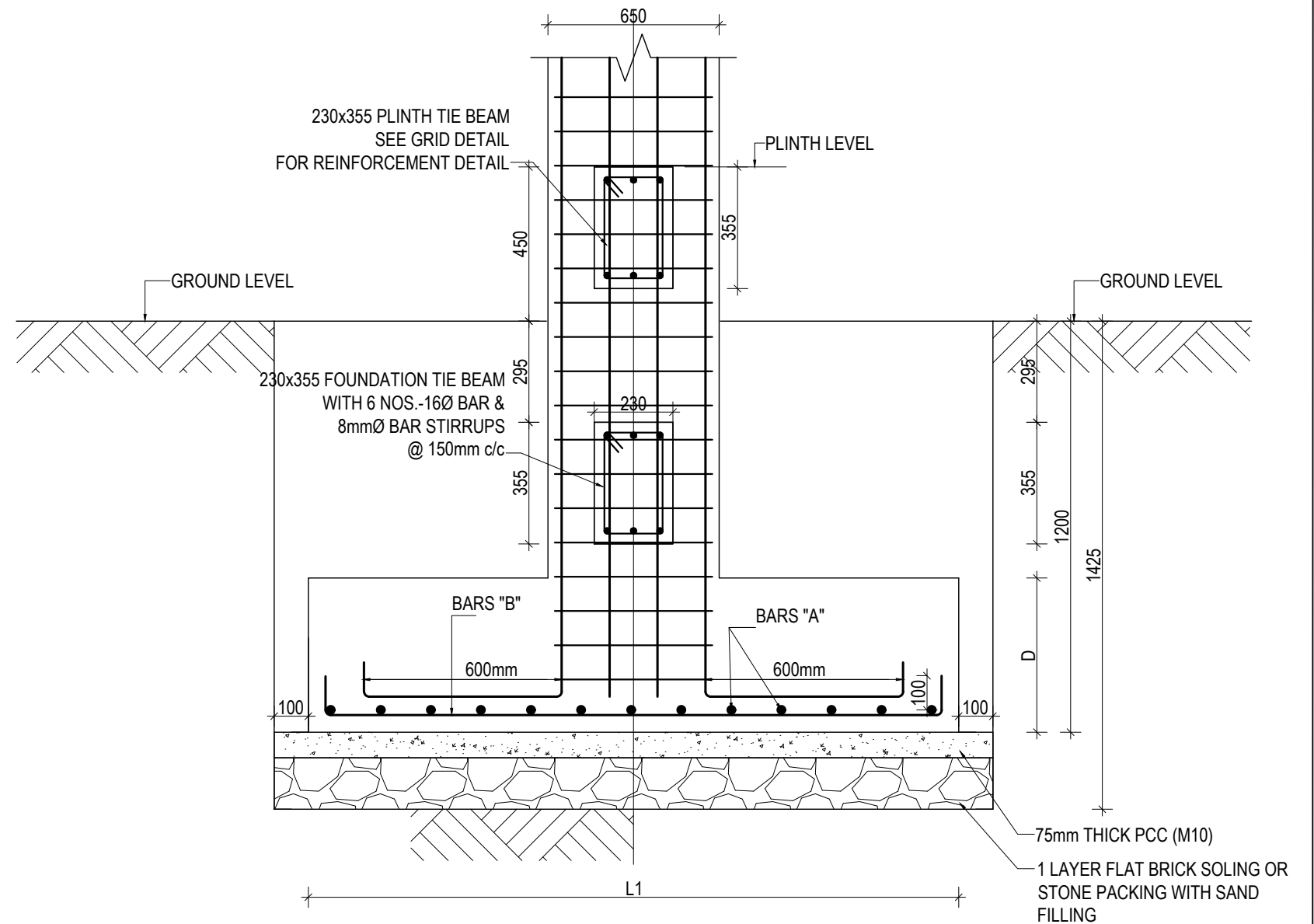
CLIENT		PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM		SHEET NO. ST-01	REVISION NO. R-00
	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Model and Big School	TRENCH DETAIL FOR S.B.C 100kN/m2	A.S.K. ENGINEERING CONSULTANCY PVT. LTD. Nepal	ENGINEER:		STRUCTURE ER. :	
					ARCHITECT:		CHECKED:	
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							DWG CODE. 3S12R- BIG & MODEL	



CLIENT		PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM		SHEET NO.	REVISION NO.
	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Model and Big School	TRENCH DETAIL FOR S.B.C 100kN/m2	A.S.K. ENGINEERING CONSULTANCY PVT. LTD. Nepal	ENGINEER:		ST-02	R-00
					ARCHITECT:		DWG CODE. 3S12R- BIG & MODEL	
					DRAWN :			
					SCALE : 1:120	PAPER SIZE : A3		
					DATE: FEBRUARY, 2023			




TYPICAL ISOLATED FOOTING PLAN

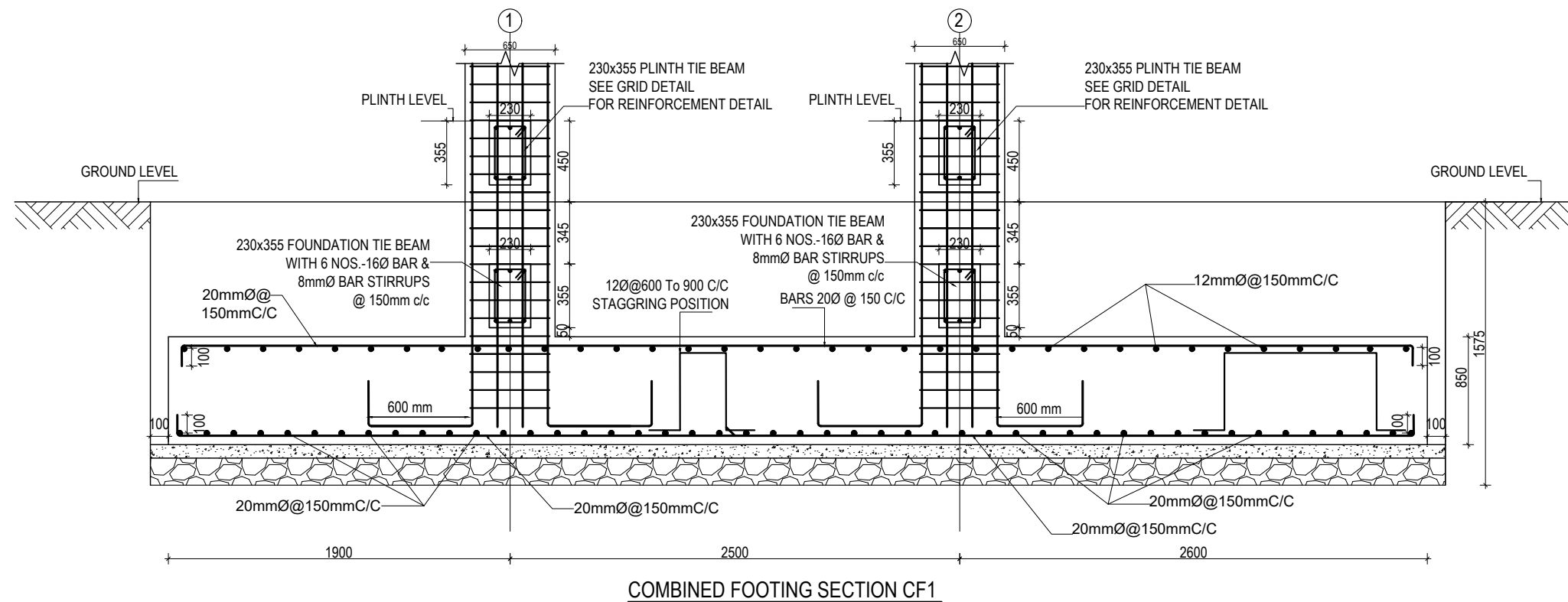
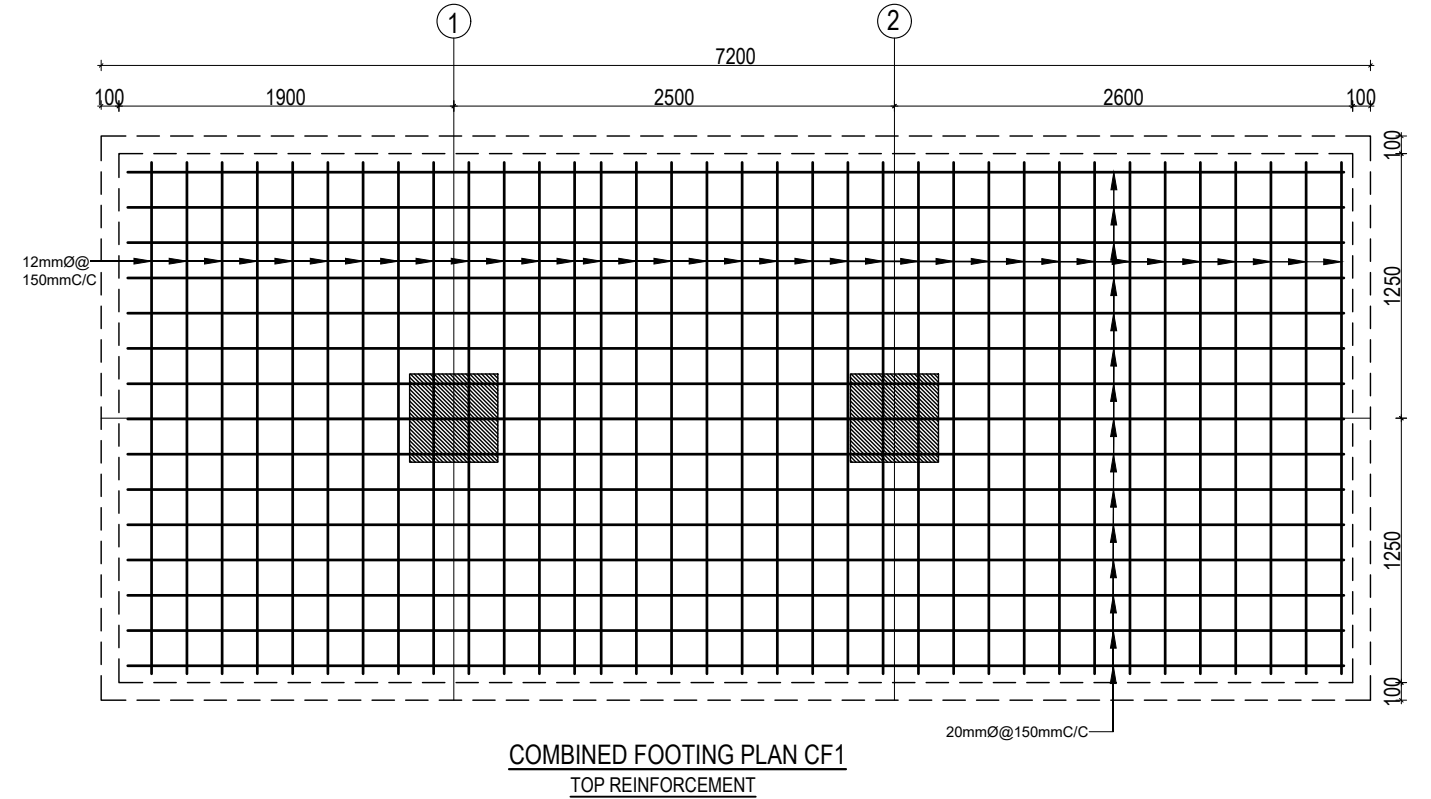
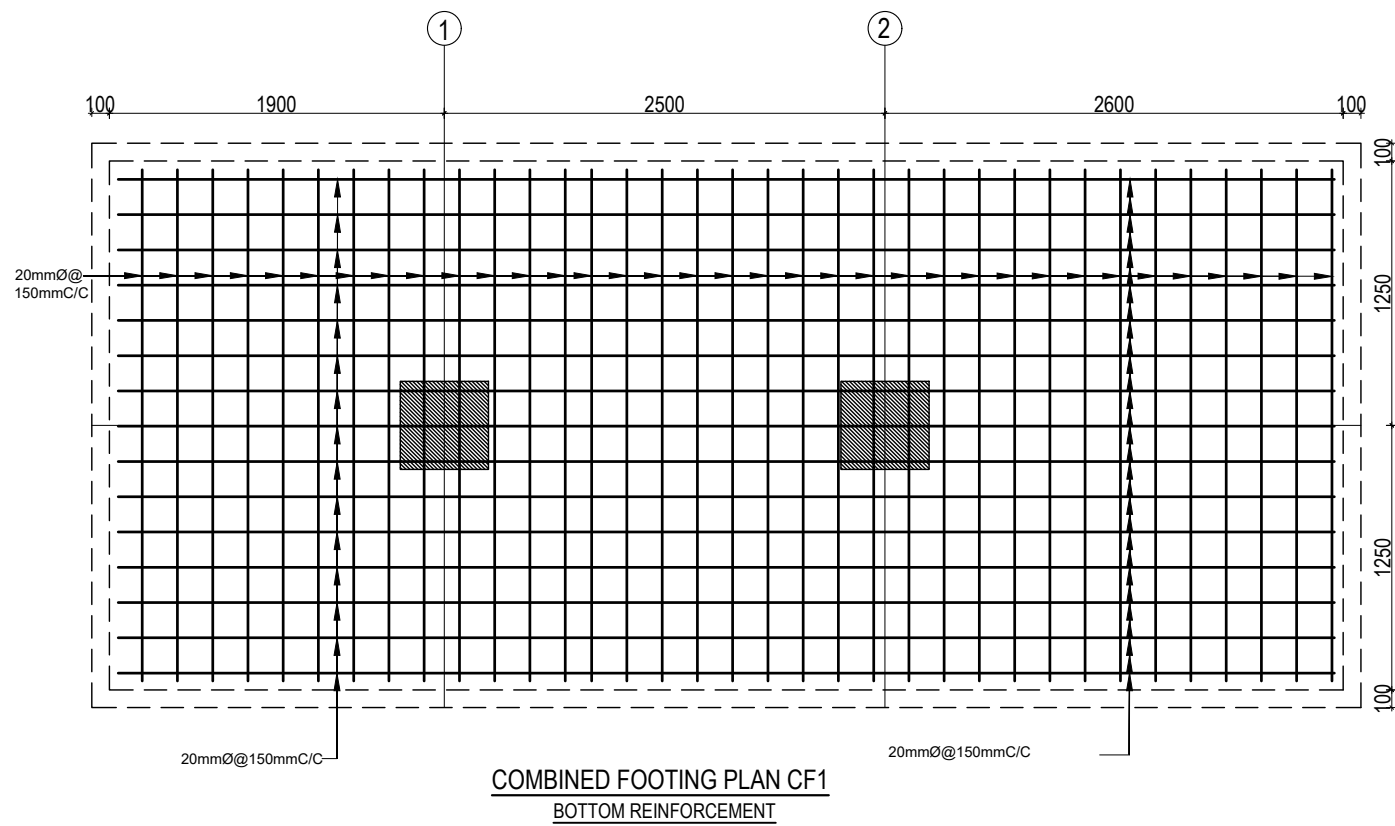



TYPICAL ISOLATED FOOTING SECTION

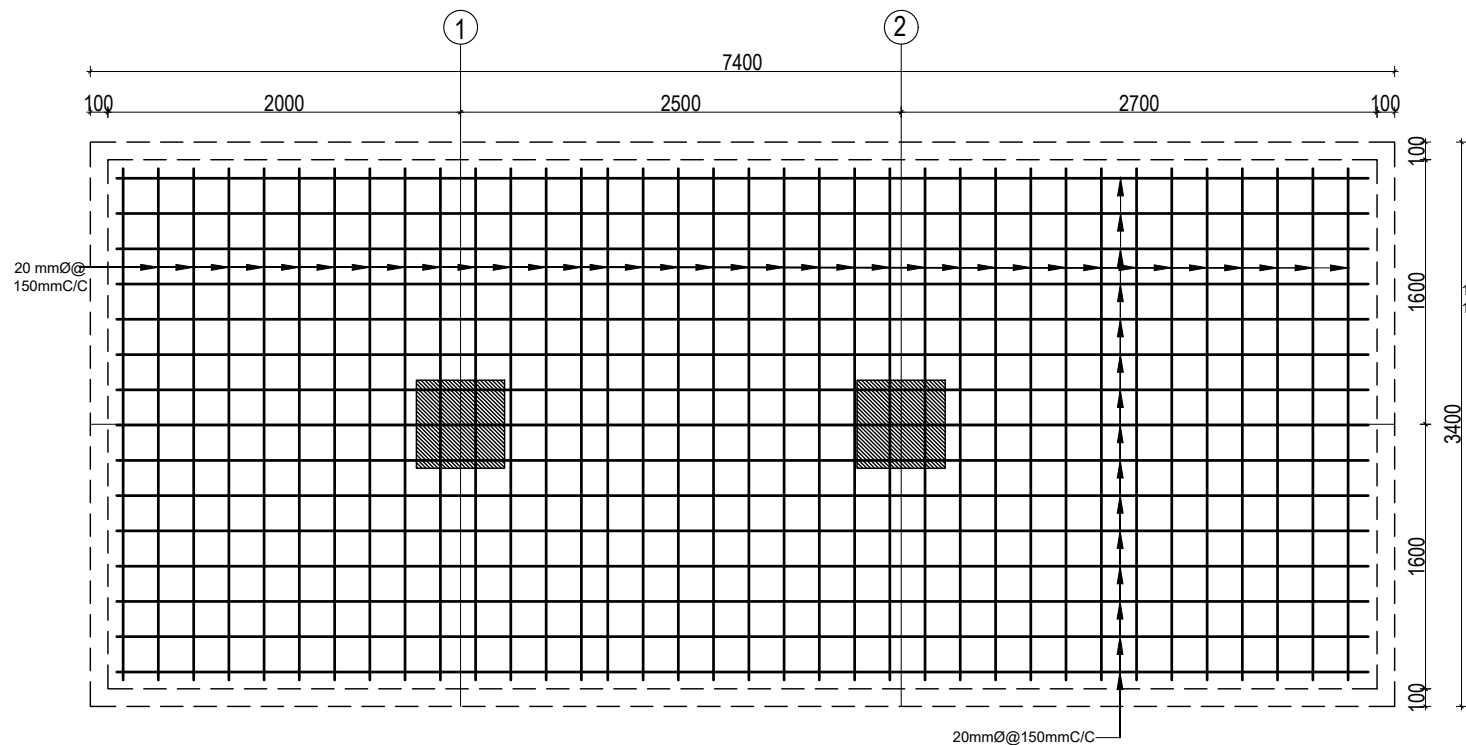
ISOLATED FOOTING SCHEDULE FOR S.B.C 100 kN/m²

FOOTING ID	L1	L2	DEPTH (D)	REINFORCEMENT DETAILS	
				BARS "A"	BARS "B"
F1	3700	3700	600	16Ø @ 150 C/C	16Ø @ 150 C/C
F2	4100	4100	750	16Ø @ 150 C/C	16Ø @ 150 C/C

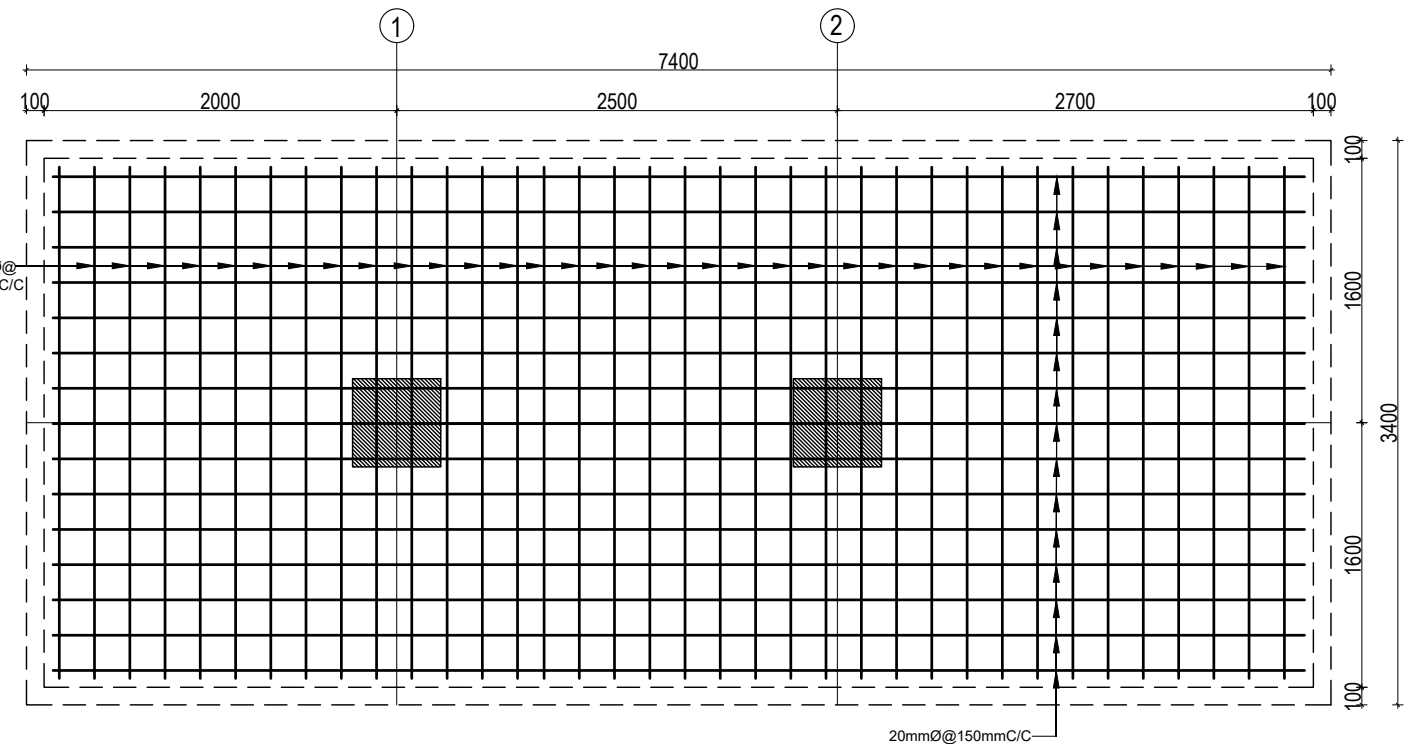
CLIENT		PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM		SHEET NO.	REVISION NO.
	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Model and Big School	FOOTING DETAIL FOR S.B.C 100kN/m2	A.S.K. ENGINEERING CONSULTANCY PVT. LTD. Nepal	ENGINEER:		ST-03	R-00
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					DATE: FEBRUARY, 2023		DWG CODE. 3S12R- BIG & MODEL	



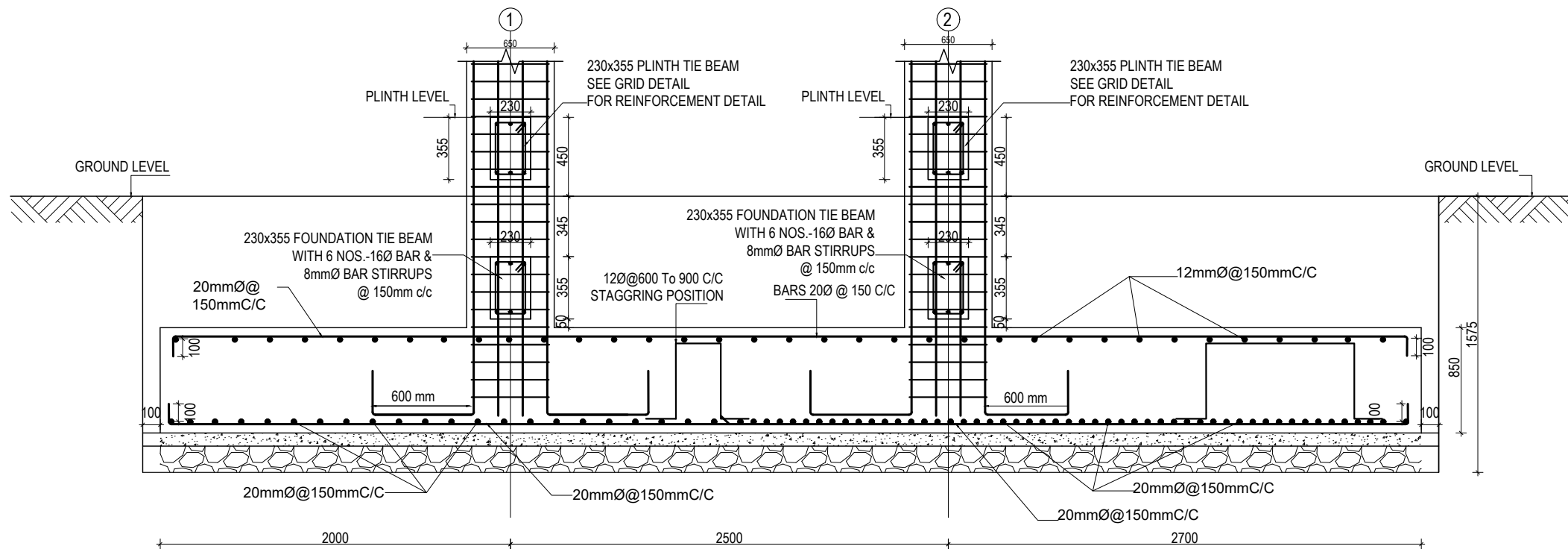
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	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Model and Big School	FOOTING DETAIL FOR S.B.C 100kN/m2	A.S.K. ENGINEERING CONSULTANCY PVT. LTD. Nepal	ENGINEER:		STRUCTURE ER. :	
					ARCHITECT:		CHECKED:	
					DRAWN :		APPROVED:	
					SCALE : 1:120	PAPER SIZE : A3	DATE: FEBRUARY, 2023	
DWG CODE. 3S12R- BIG & MODEL								




COMBINED FOOTING PLAN CF2
BOTTOM REINFORCEMENT

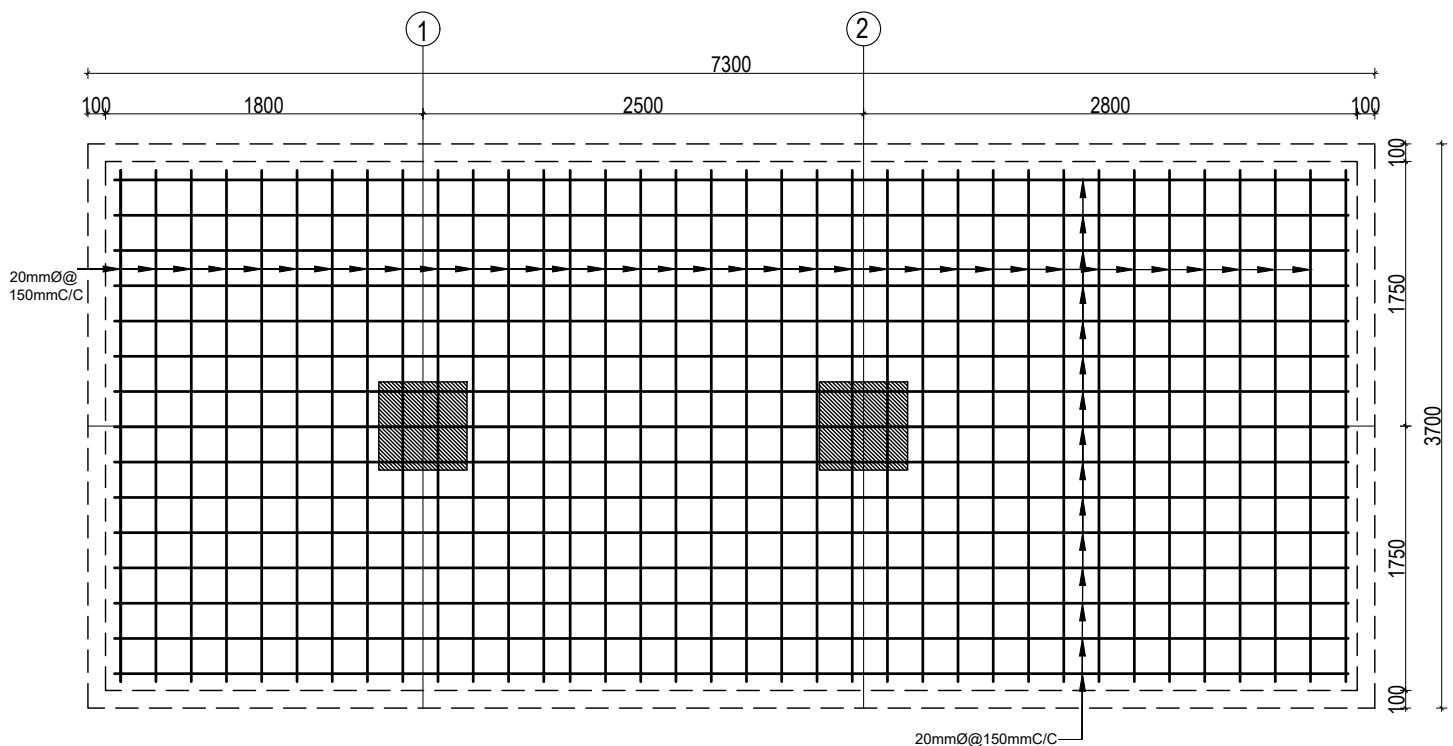


COMBINED FOOTING PLAN CF2
TOP REINFORCEMENT




COMBINED FOOTING SECTION CF2

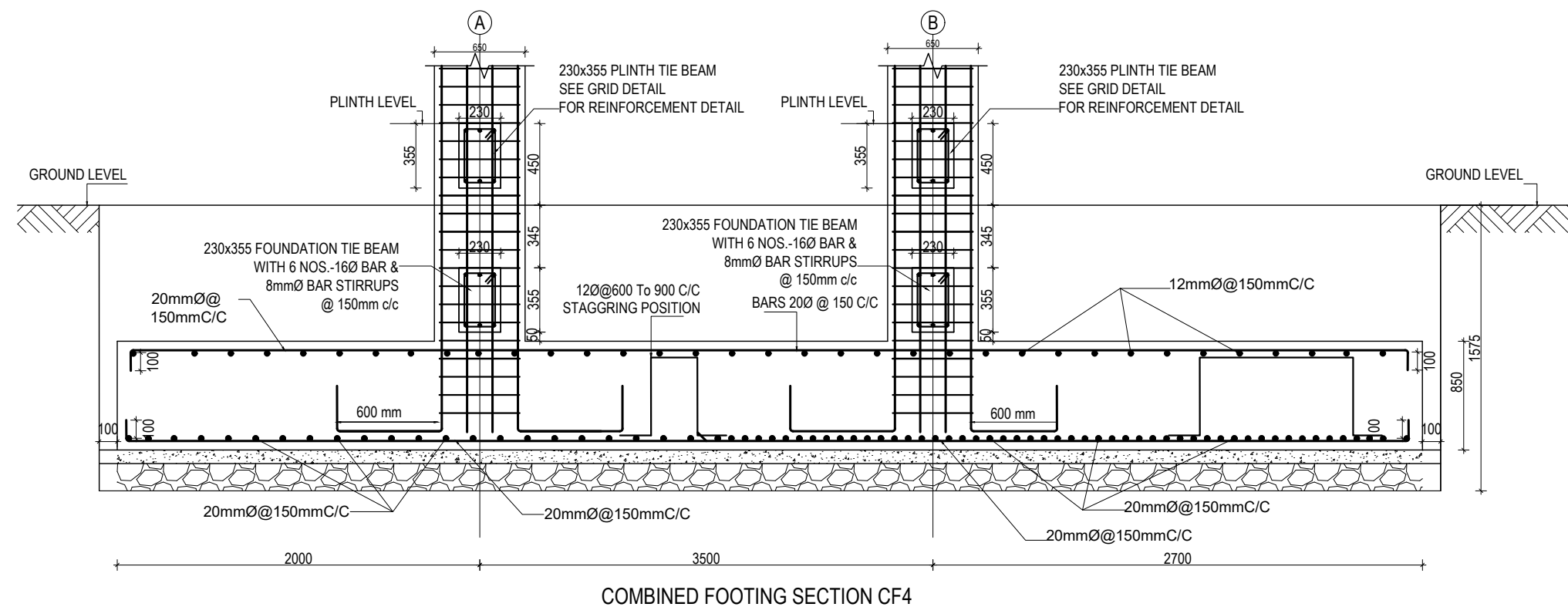
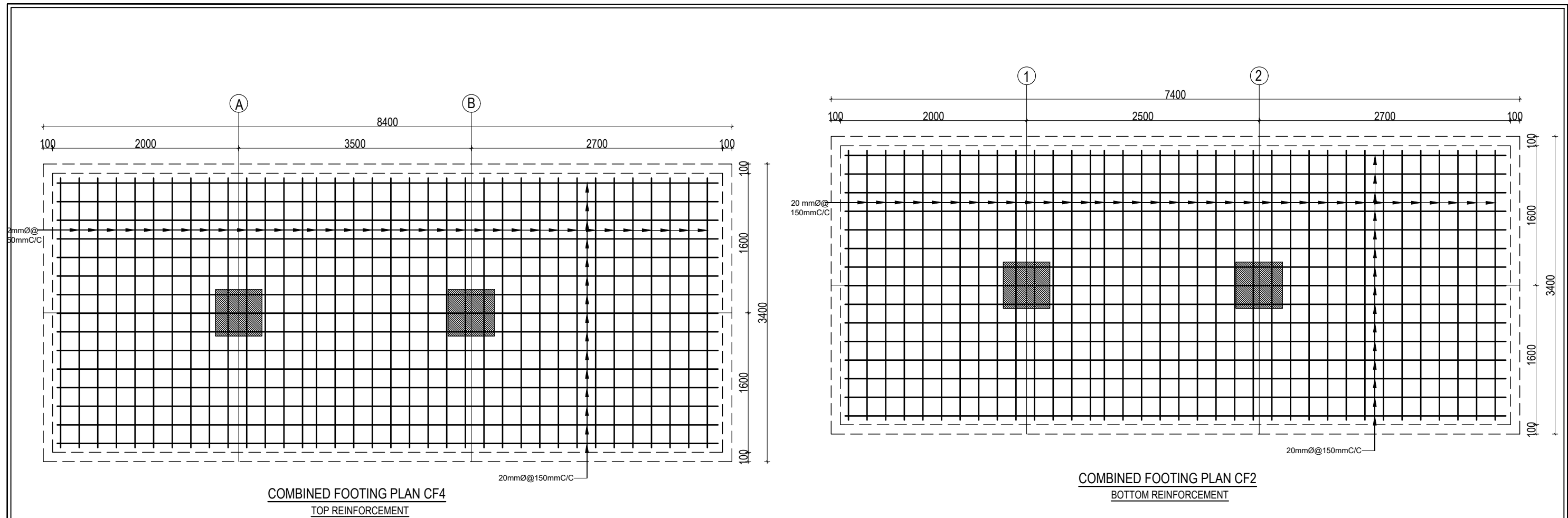
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	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Model and Big School	FOOTING DETAIL FOR S.B.C 100kN/m2	A.S.K. ENGINEERING CONSULTANCY PVT. LTD. Nepal	ENGINEER:	STRUCTURE ER. :	DWG CODE. 3S12R- BIG & MODEL	
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					DRAWN :	APPROVED:		
					SCALE : 1:120	PAPER SIZE : A3		




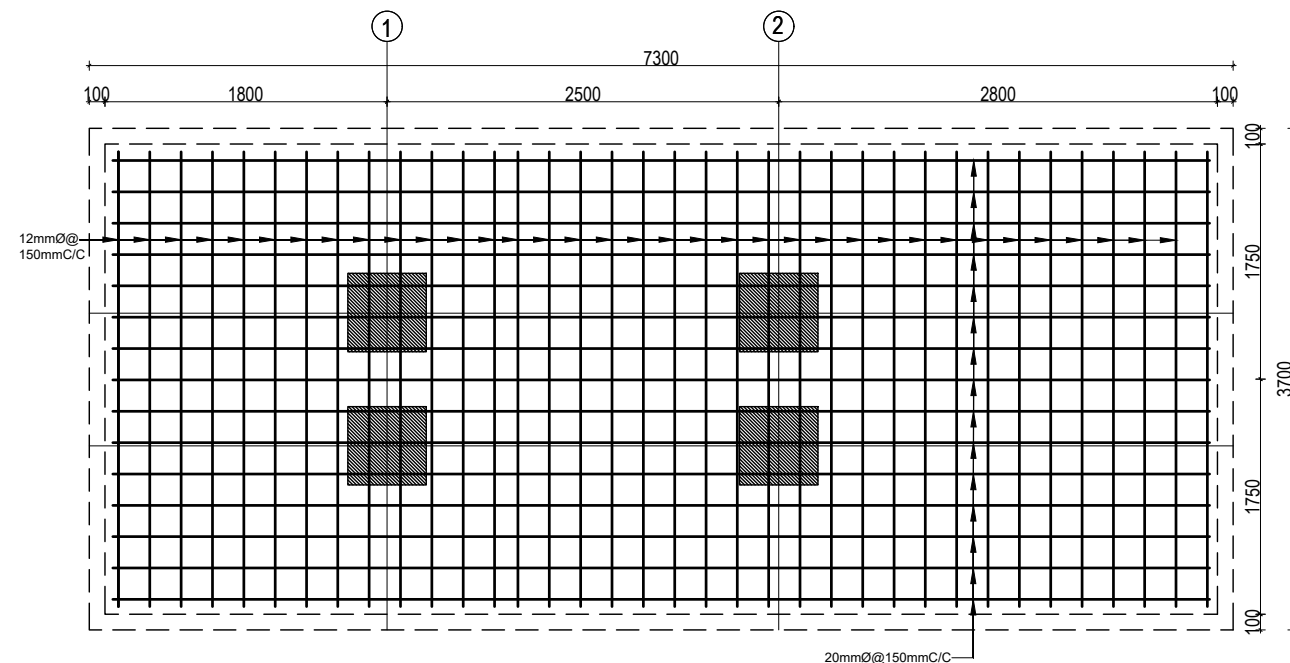
COMBINED FOOTING PLAN CF3
BOTTOM REINFORCEMENT



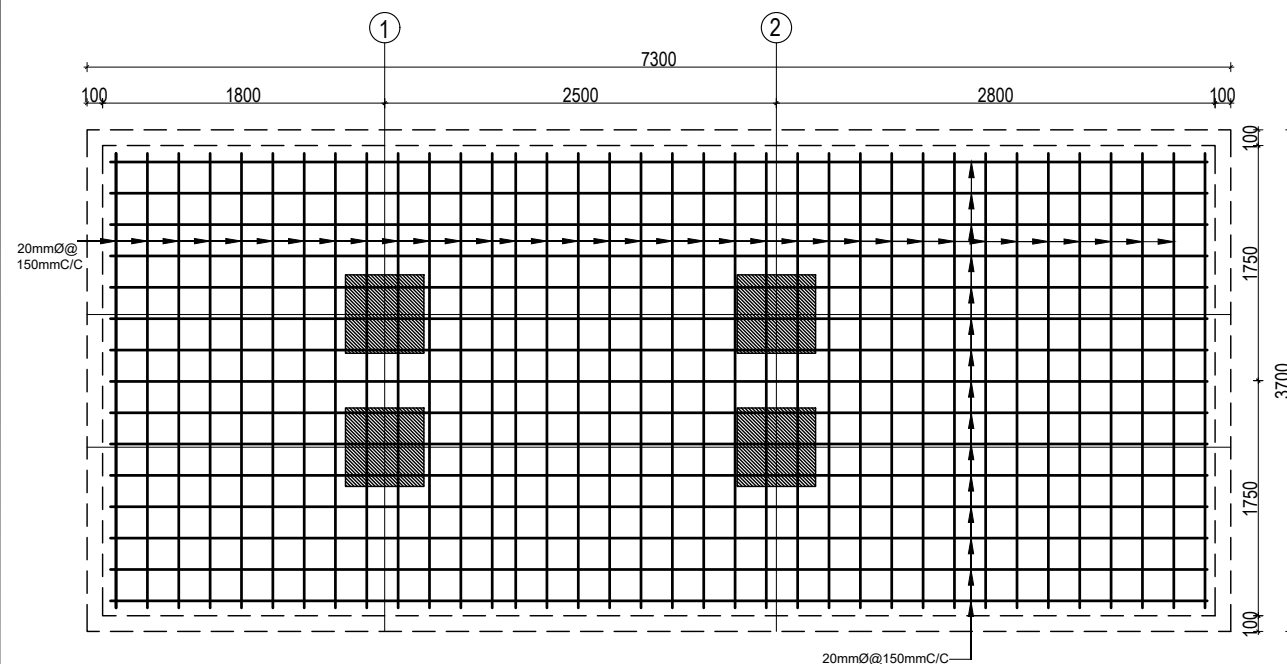
CLIENT		PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM		SHEET NO. ST-06	REVISION NO. R-00
	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Model and Big School	FOOTING DETAIL FOR S.B.C 100kN/m2	A.S.K. ENGINEERING CONSULTANCY PVT. LTD. Nepal	ENGINEER:		DWG CODE. 3S12R- BIG & MODEL	
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					DRAWN :			
					SCALE : 1:120	PAPER SIZE : A3 DATE: FEBRUARY, 2023		



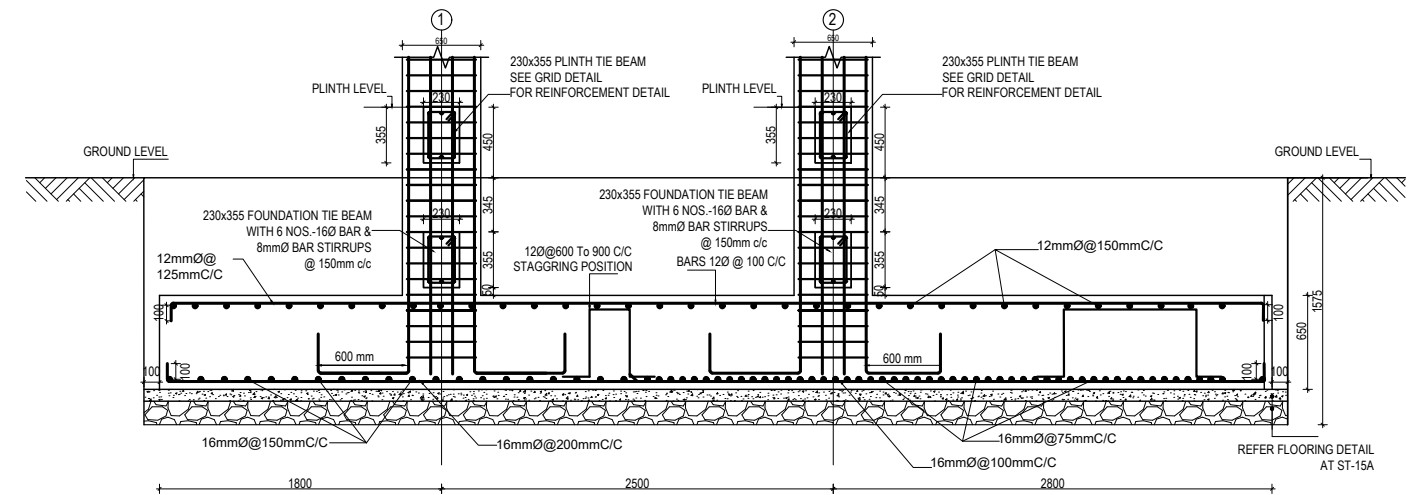
CLIENT		PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM			SHEET NO. ST-07	REVISION NO. R-00
	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Model and Big School	FOOTING DETAIL FOR S.B.C 100kN/m2	A.S.K. ENGINEERING CONSULTANCY PVT. LTD. Nepal	ENGINEER:	STRUCTURE ER. :		DWG CODE. 3S12R- BIG & MODEL	
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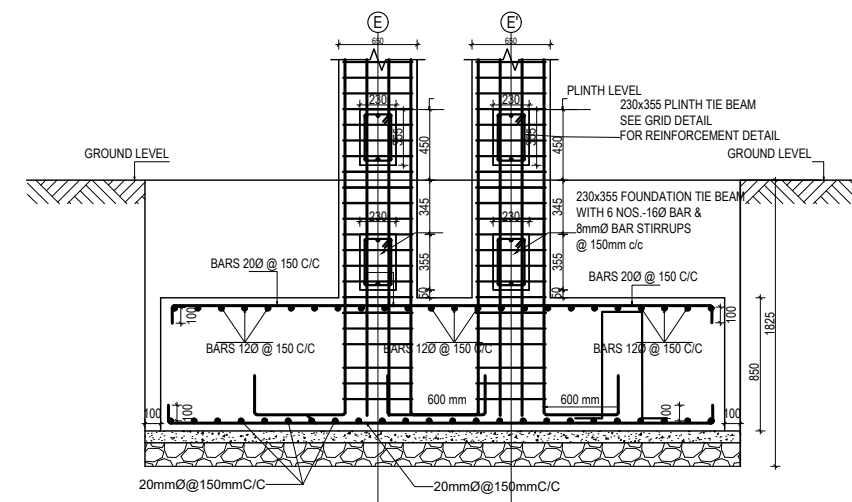
COMBINED FOOTING PLAN CF5
TOP REINFORCEMENT




COMBINED FOOTING PLAN CF5
BOTTOM REINFORCEMENT

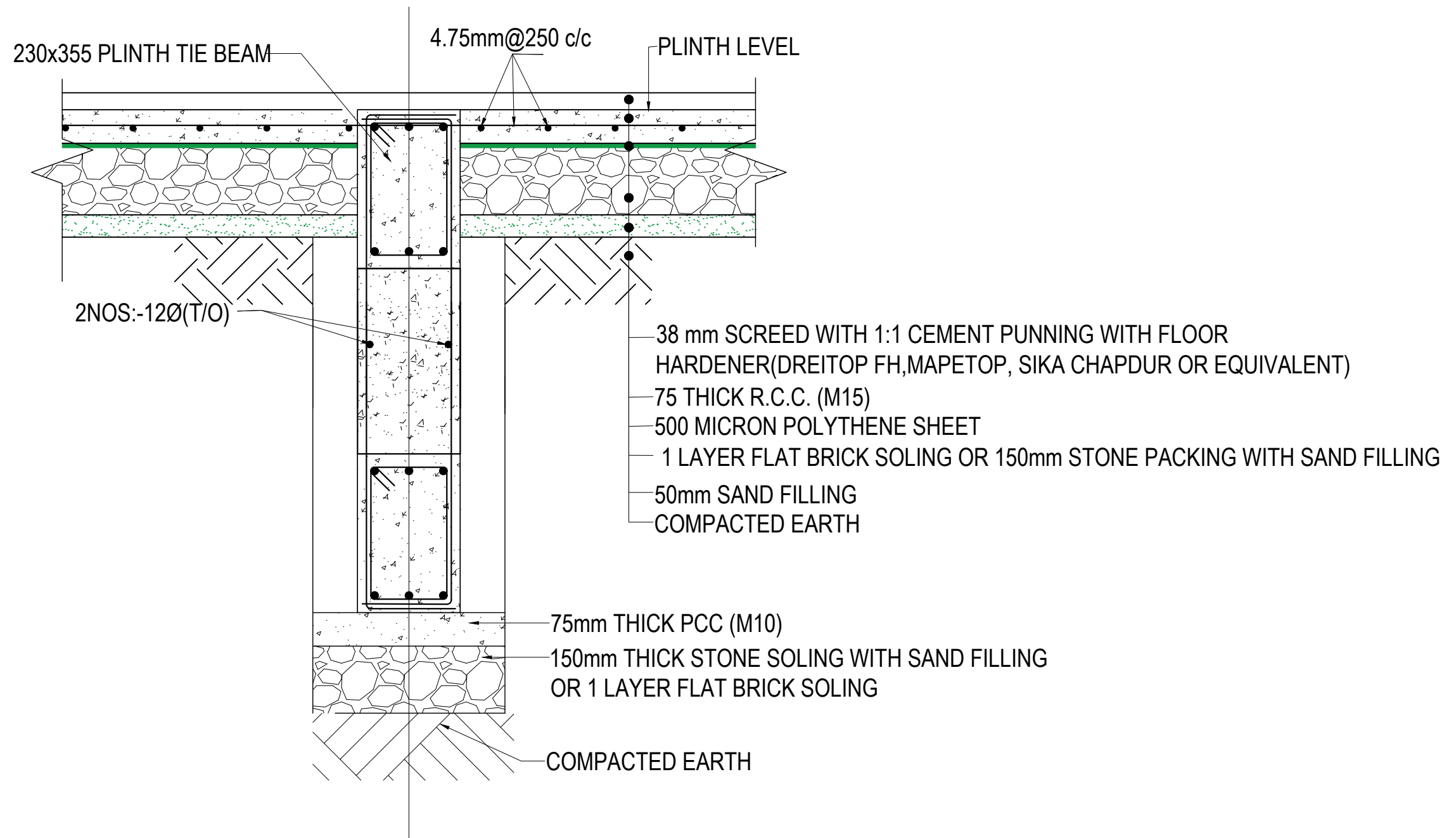


COMBINED FOOTING SECTION CF5 [L-SECTION]




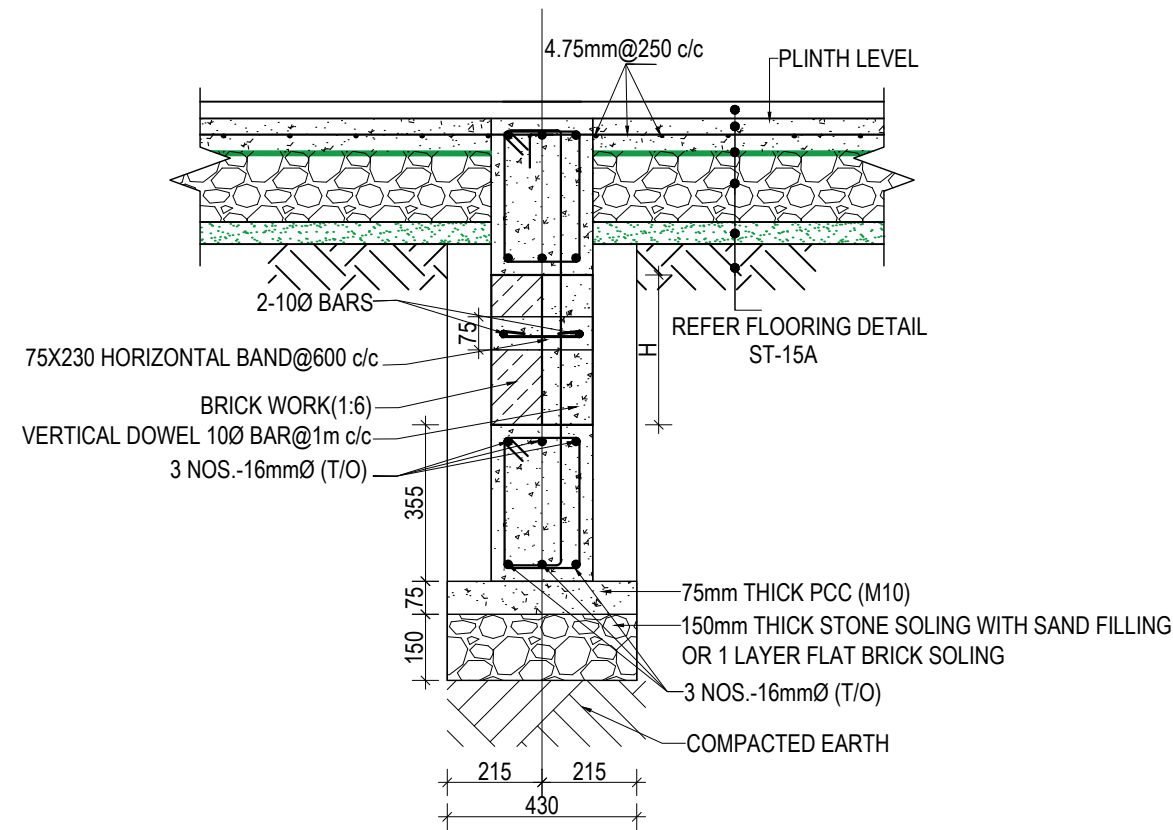
COMBINED FOOTING SECTION CF5 [X-SECTION]

CLIENT		PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM		SHEET NO.	REVISION NO.
	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Model and Big School	FOOTING DETAIL FOR S.B.C 100kN/m2	A.S.K. ENGINEERING CONSULTANCY PVT. LTD. Nepal	ENGINEER:		ST-08	R-00
					ARCHITECT:		DWG CODE. 3S12R- BIG & MODEL	
					DRAWN :			
					SCALE : 1:120	PAPER SIZE : A3	DATE: FEBRUARY, 2023	



TYPICAL FLOORING DETAIL FF1
(Scale= 1:10)

CLIENT		PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM		SHEET NO.	REVISION NO.
	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Model and Big School	TYPICAL FLOORING DETAIL	A.S.K. ENGINEERING CONSULTANCY PVT. LTD. Nepal	ENGINEER:		ST-09	R-00
					STRUCTURE ER. :			
					ARCHITECT:		CHECKED:	
					DRAWN :		APPROVED:	
SCALE : 1:120		PAPER SIZE : A3		DATE: FEBRUARY, 2023		DWG CODE. 3S12R- BIG & MODEL		



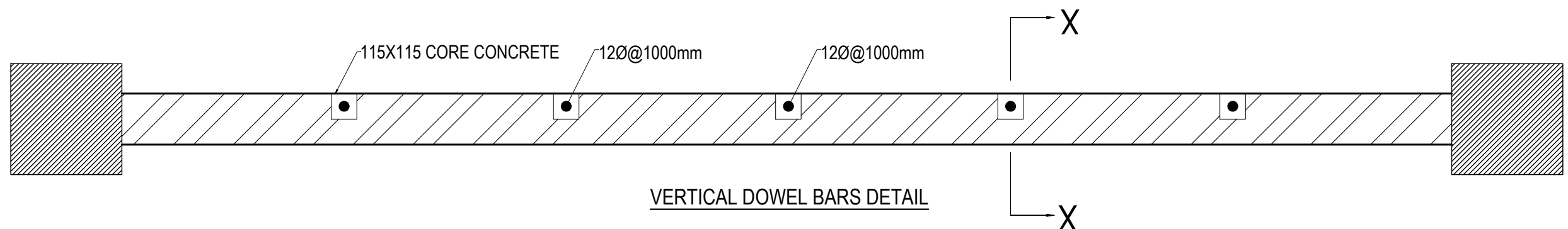
WALL DETAIL FOR DEPTH OF FOOTING MORE THAN 1500 mm

SECTION AT X-X


NOTES:-

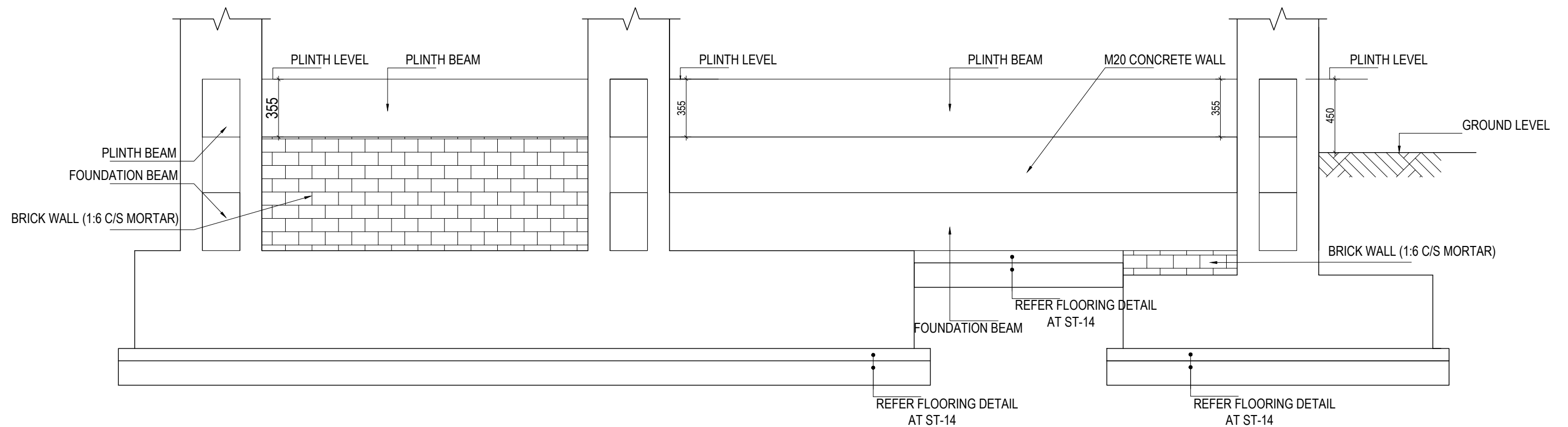
1) BRICK WALL IS USED IF WALL IS CONFINED BY SOIL ON BOTH SIDES

2) IF THE HEIGHT OF THE BRICK WALL EXCEEDS 1800 mm ADDITIONAL BEAM SHALL BE PROVIDED OF SAME SIZE OF FOUNDATION BEAM (SAME REINFORCEMENT TO BE USED)




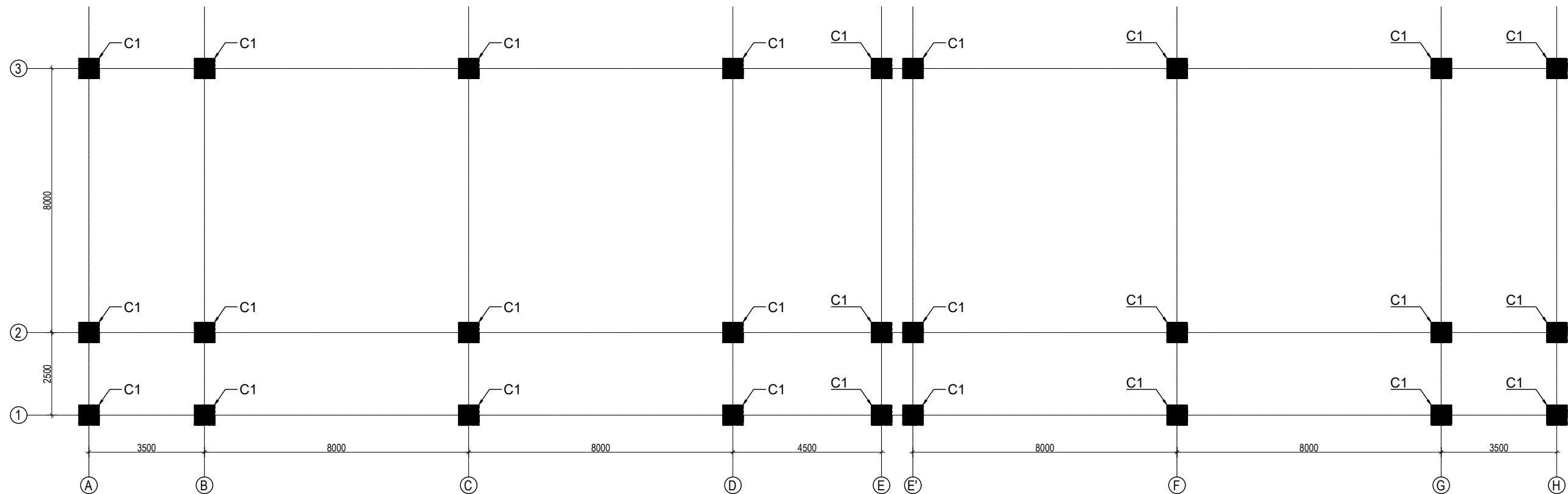
VERTICAL DOWEL BARS DETAIL

CLIENT		PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM		SHEET NO.	REVISION NO.
	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Model and Big School	SITE SPECIFIC DRAWING	A.S.K. ENGINEERING CONSULTANCY PVT. LTD. Nepal	ENGINEER:	STRUCTURE ER. :	ST-10	R-00
					ARCHITECT:	CHECKED:		
					DRAWN :	APPROVED:	DWG CODE. 3S12R- BIG & MODEL	
					SCALE : 1:120	PAPER SIZE : A3		



TYPICAL DETAIL OF FOUNDATION WALL

CLIENT		PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM		SHEET NO.	REVISION NO.
	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Model and Big School	TYPICAL DETAIL OF FOUNDATION WALL	A.S.K. ENGINEERING CONSULTANCY PVT. LTD. Nepal	ENGINEER:		ST-11	R-00
					STRUCTURE ER. :			
					ARCHITECT:		CHECKED:	
					DRAWN :		APPROVED:	
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							DWG CODE. 3S12R- BIG & MODEL	

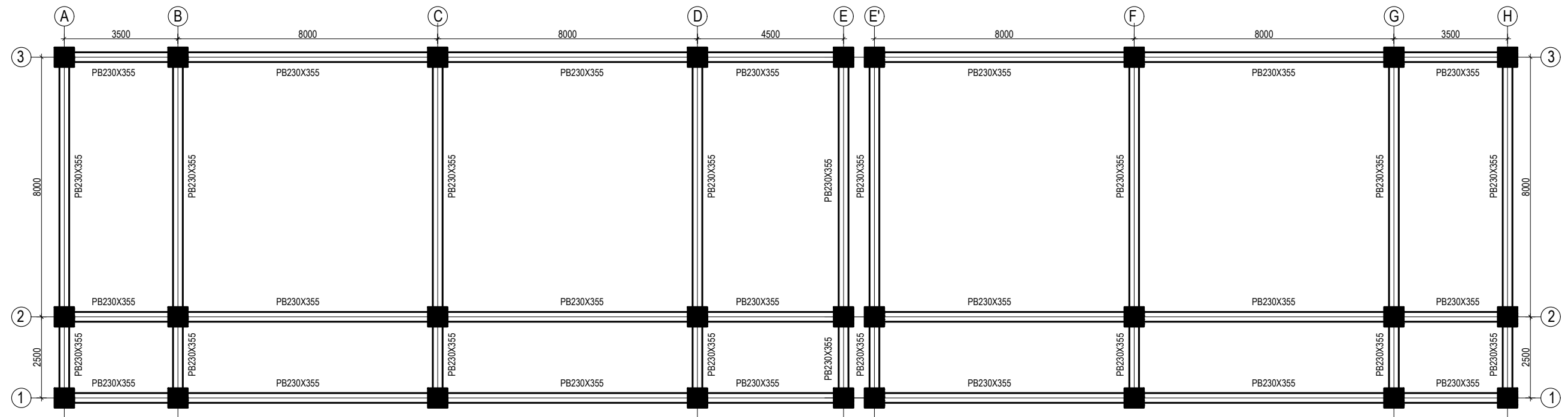


GROUND FLOOR COLUMN LAYOUT PLAN
(SCALE 1:100)


COLUMN REINFORCEMENT DETAILS

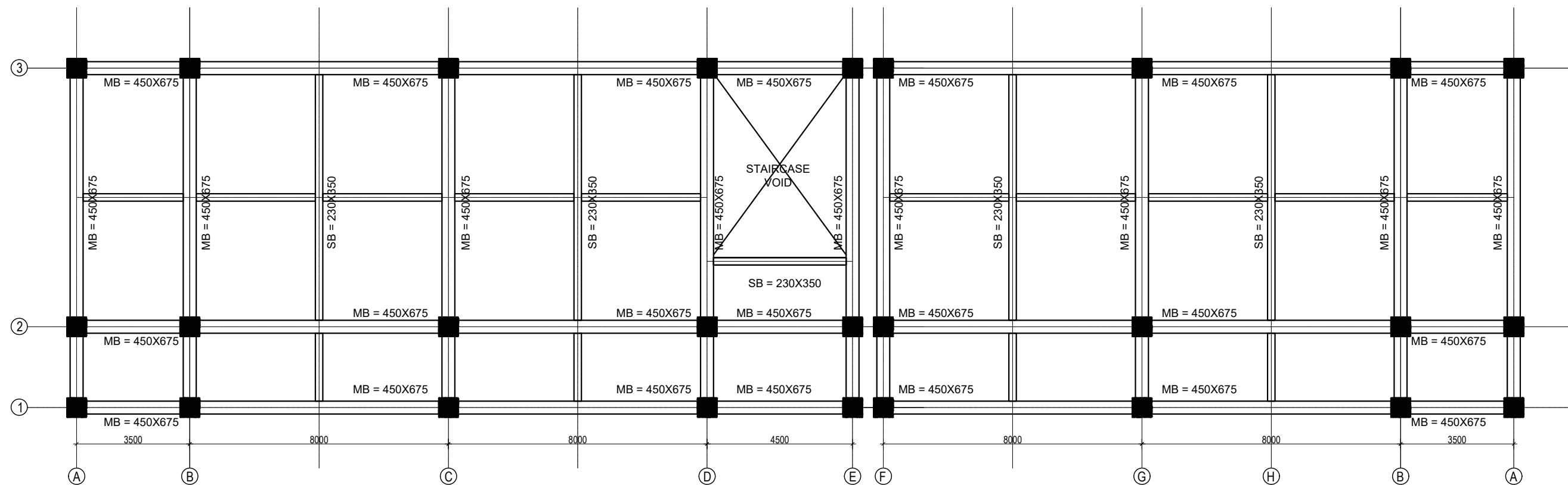
S. NO.	COLUMN	COLUMN SIZE	FLOOR					TIE BAR ORIENTATION
			GROUND FLOOR	FIRST FLOOR	SECOND FLOOR	THIRD FLOOR	TOP FLOOR	
1	C1	650X650						 A: 100Ø100c/c & B: 80Ø100c/c

CLIENT		PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM			SHEET NO. ST-12	REVISION NO. R-00
	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Model and Big School	COLUMN DETAIL	A.S.K. ENGINEERING CONSULTANCY PVT. LTD. Nepal	ENGINEER:		STRUCTURE ER. :	DWG CODE. 3S12R- BIG & MODEL	
					ARCHITECT:		CHECKED:		
					DRAWN :		APPROVED:		
					SCALE : 1:120	PAPER SIZE : A3	DATE: FEBRUARY, 2023		




PLINTH BEAM LAYOUT PLAN
(Scale= 1:100)
LVL:- PL+0000

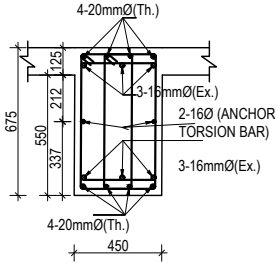
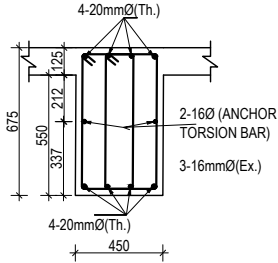
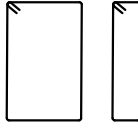
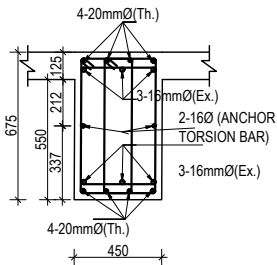
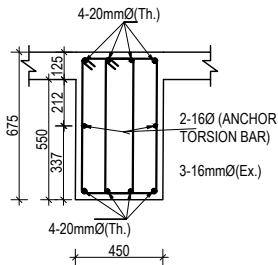
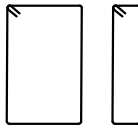
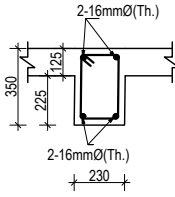
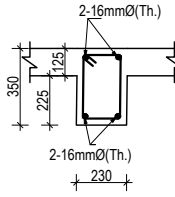

CLIENT		PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM			SHEET NO. ST-13	REVISION NO. R-00
	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Model and Big School	BEAM LAYOUT PLAN	A.S.K. ENGINEERING CONSULTANCY PVT. LTD. Nepal	ENGINEER:		STRUCTURE ER. :		DWG CODE. 3S12R- BIG & MODEL
					ARCHITECT:		CHECKED:		
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					SCALE : 1:120	PAPER SIZE : A3	DATE: FEBRUARY, 2023		




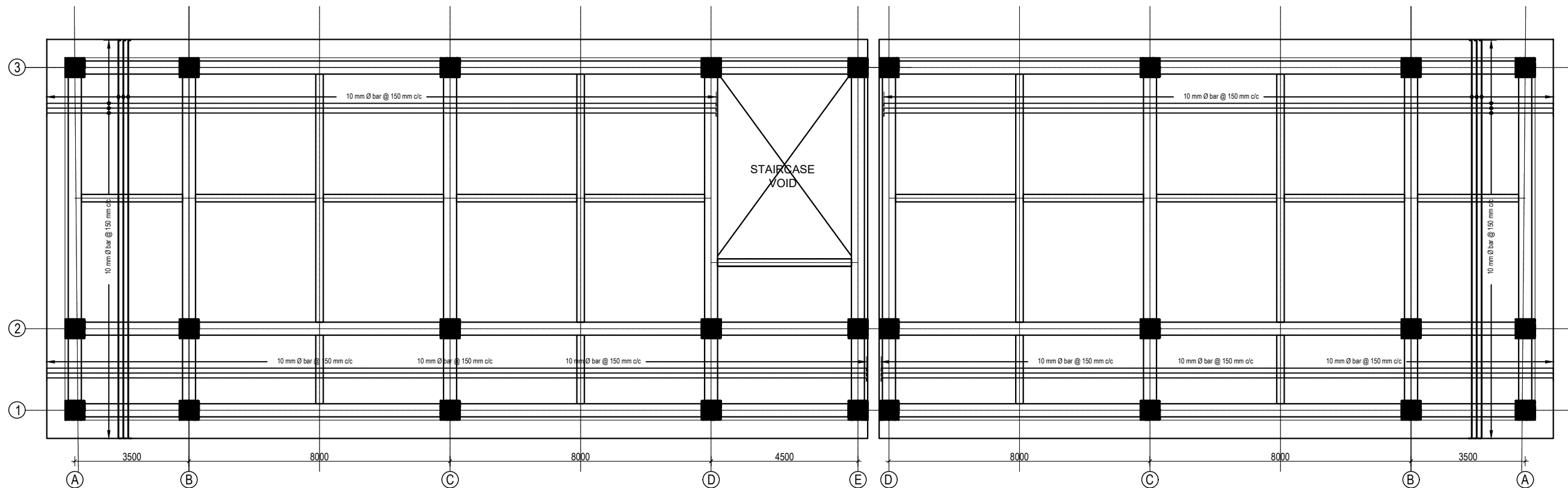
BEAM LAYOUT PLAN (FIRST, SECOND AND THIRD FLOOR)
(Scale= 1:100)

CLIENT		PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM		SHEET NO.	REVISION NO.	
	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Model and Big School	BEAM LAYOUT PLAN	A.S.K. ENGINEERING CONSULTANCY PVT. LTD. Nepal	ENGINEER:		ST-14	R-00	
					STRUCTURE ER. :				
					ARCHITECT:		CHECKED:		
					DRAWN :		APPROVED:		
SCALE : 1:120					PAPER SIZE : A3	DATE: FEBRUARY, 2023			
							DWG CODE. 3S12R- BIG & MODEL		

COLUMN REINFORCEMENT DETAILS

S. NO.	GRID	BEAM SIZE			STIRRUPS BAR ORIENTATION	FLOOR LVL
			AT SUPPORT	AT MID		
1	1-1 2-2 3-3	450X675				FIRST FLOOR BEAMS SECOND FLOOR BEAMS
					4- Legged, 100mm c/c & 150 c/c	
2	A-A B-B C-C D-D E-E	450X675				REMAINING FLOOR BEAMS
					4- Legged, 100mm c/c & 150 c/c	
3	Sec. beam	230X350				ALL FLOOR BEAMS
					2- Legged, 100mm c/c & 150 c/c	


CLIENT		PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM		SHEET NO. ST-15	REVISION NO. R-00
	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Model and Big School	COLUMN DETAIL	A.S.K. ENGINEERING CONSULTANCY PVT. LTD. Nepal	ENGINEER:		STRUCTURE ER. :	
					ARCHITECT:		CHECKED:	
					DRAWN :		APPROVED:	
					SCALE : 1:120	PAPER SIZE : A3	DATE: FEBRUARY, 2023	
							DWG CODE. 3S12R- BIG & MODEL	

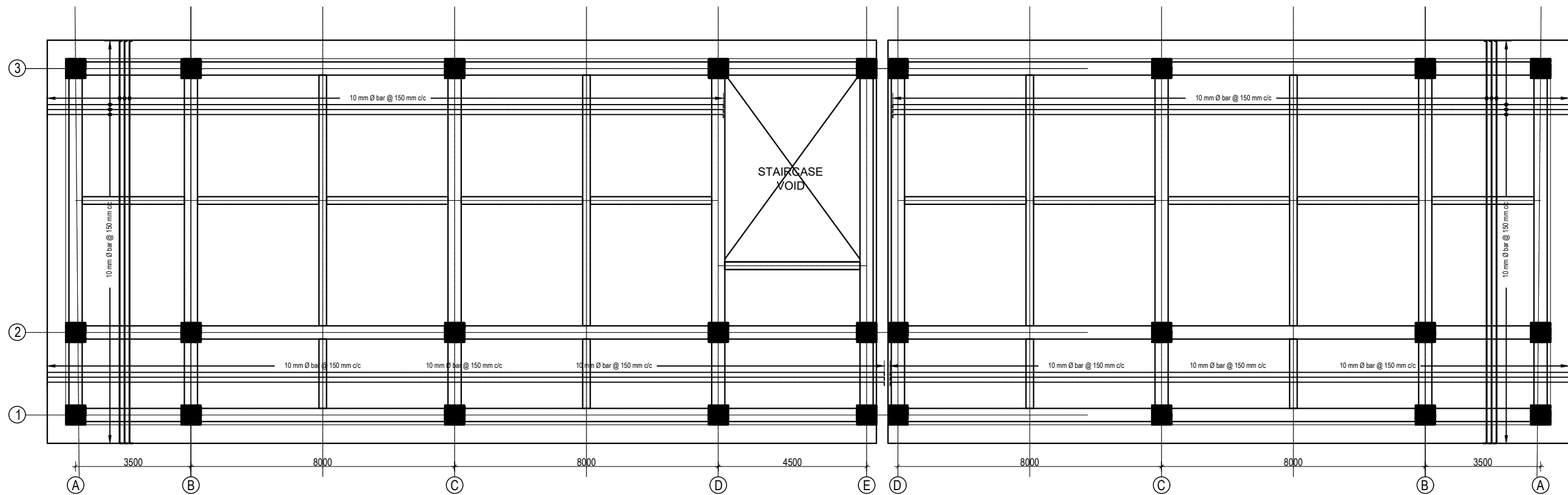


SLAB REINFORCEMENT DETAIL FOR BOTTOM BARS
(GROUND, FIRST, SECOND AND THIRD FLOOR)
BOTTOM REINFORCEMENT: 8Ø@150 mm c/c

(Scale= 1:120)


125 mm SLAB THICKNESS

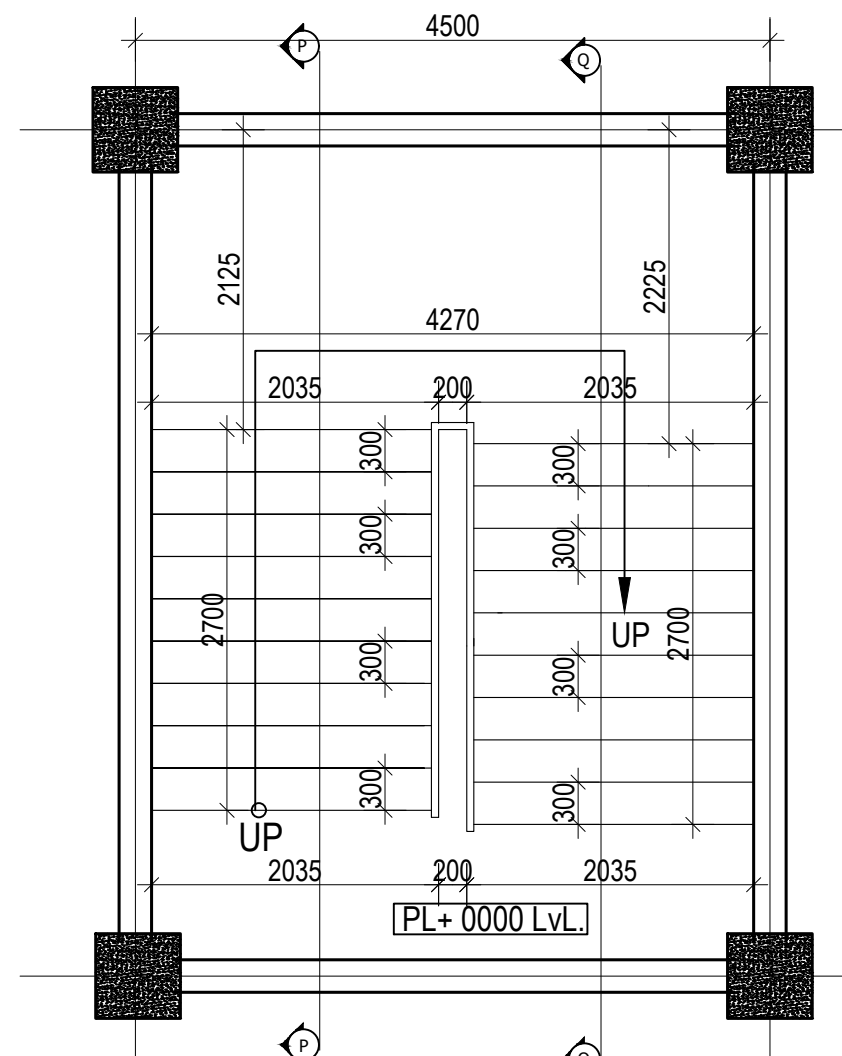
CLIENT		PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM		SHEET NO. ST-16	REVISION NO. R-00
	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Model and Big School	SLAB REINFORCEMENT DETAIL	A.S.K. ENGINEERING CONSULTANCY PVT. LTD. Nepal	ENGINEER:		STRUCTURE ER. :	
					ARCHITECT:		CHECKED:	
					DRAWN :		APPROVED:	
					SCALE : 1:120	PAPER SIZE : A3	DATE: FEBRUARY, 2023	
DWG CODE. 3S12R- BIG & MODEL								



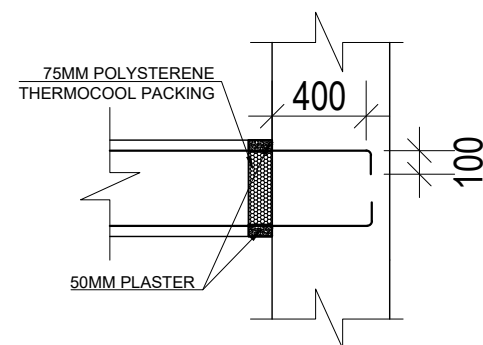
SLAB REINFORCEMENT DETAIL FOR TOP BARS
(GROUND,FIRST, SECOND AND THIRD FLOOR)
TOP REINFORCEMENT: a. FOR MAIN BEAM :10Ø@150 mm c/c
b. FOR SECONDARY BEAM :10Ø@200 mm c/c
(Scale= 1:120)

125 mm SLAB THICKNESS

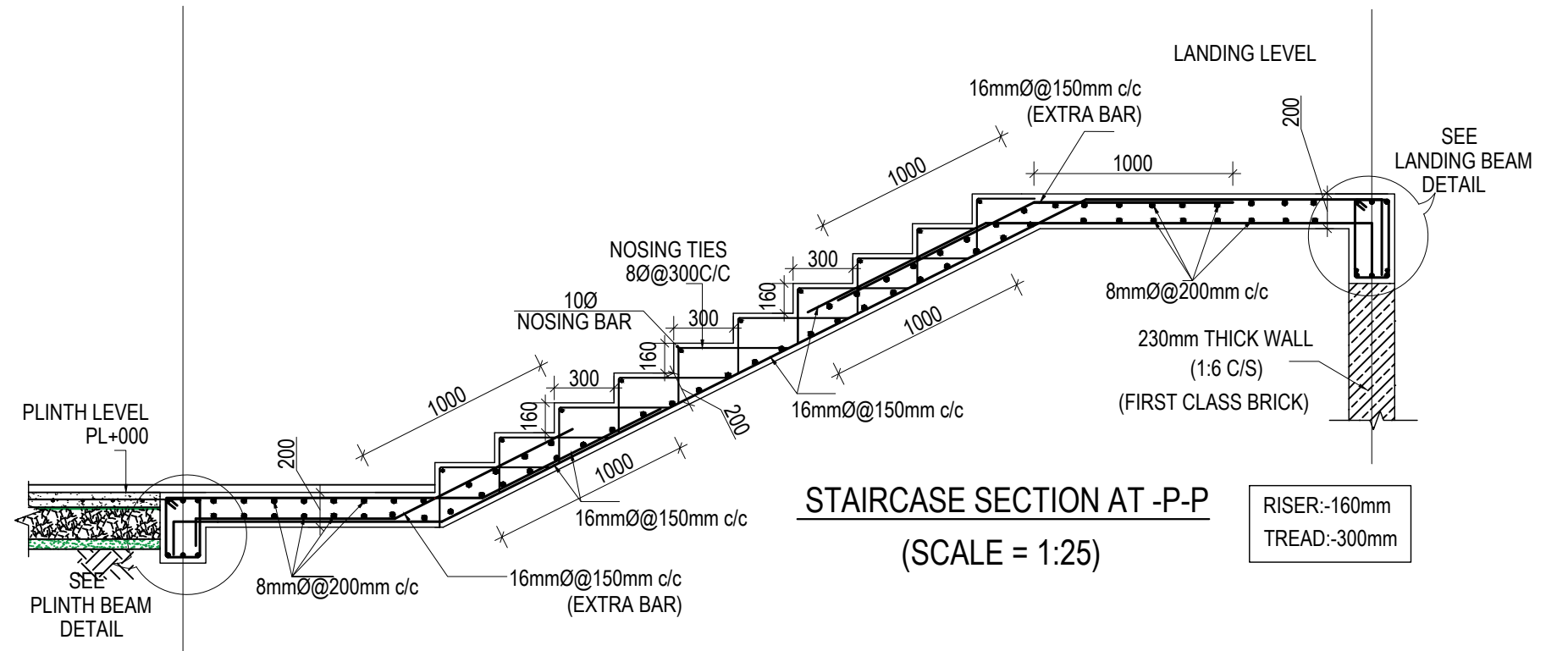
CLIENT		PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM		SHEET NO.	REVISION NO.	
	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Model and Big School	SLAB REINFORCEMENT DETAIL	A.S.K. ENGINEERING CONSULTANCY PVT. LTD. Nepal	ENGINEER:		STRUCTURE ER. :	ST-17	R-00
					ARCHITECT:		CHECKED:		
					DRAWN :		APPROVED:	DWG CODE. 3S12R- BIG & MODEL	
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GROUND FLOOR STAIRCASE PLAN
(Scale= 1:50)

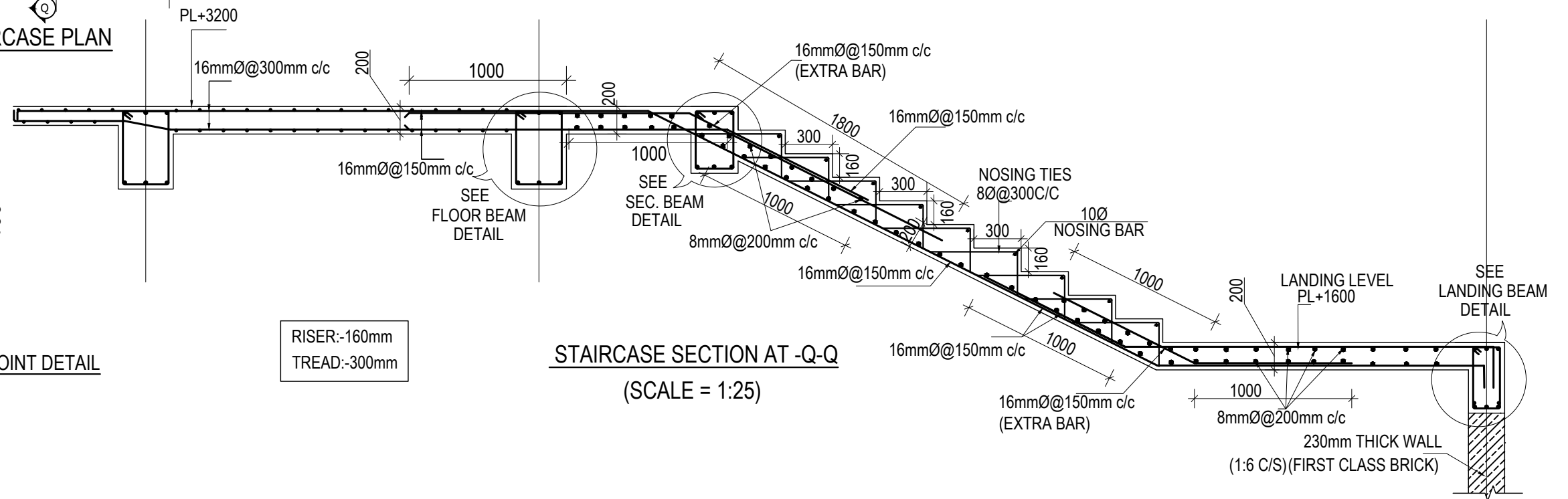


TYPICAL LANDING BEAM AND COLUMN JOINT DETAIL



STAIRCASE SECTION AT -P-P
(SCALE = 1:25)

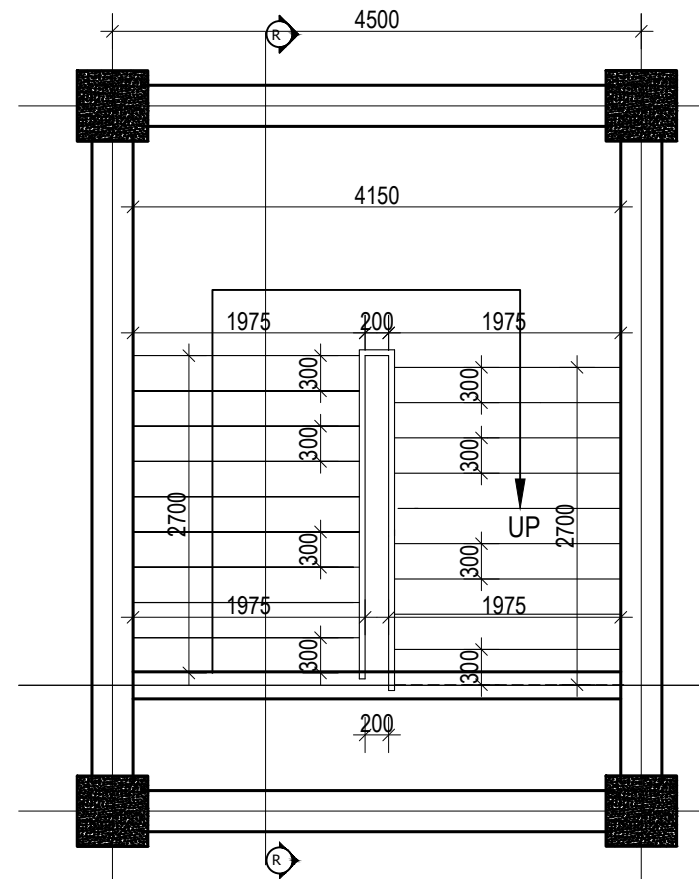
RISER:-160mm
TREAD:-300mm



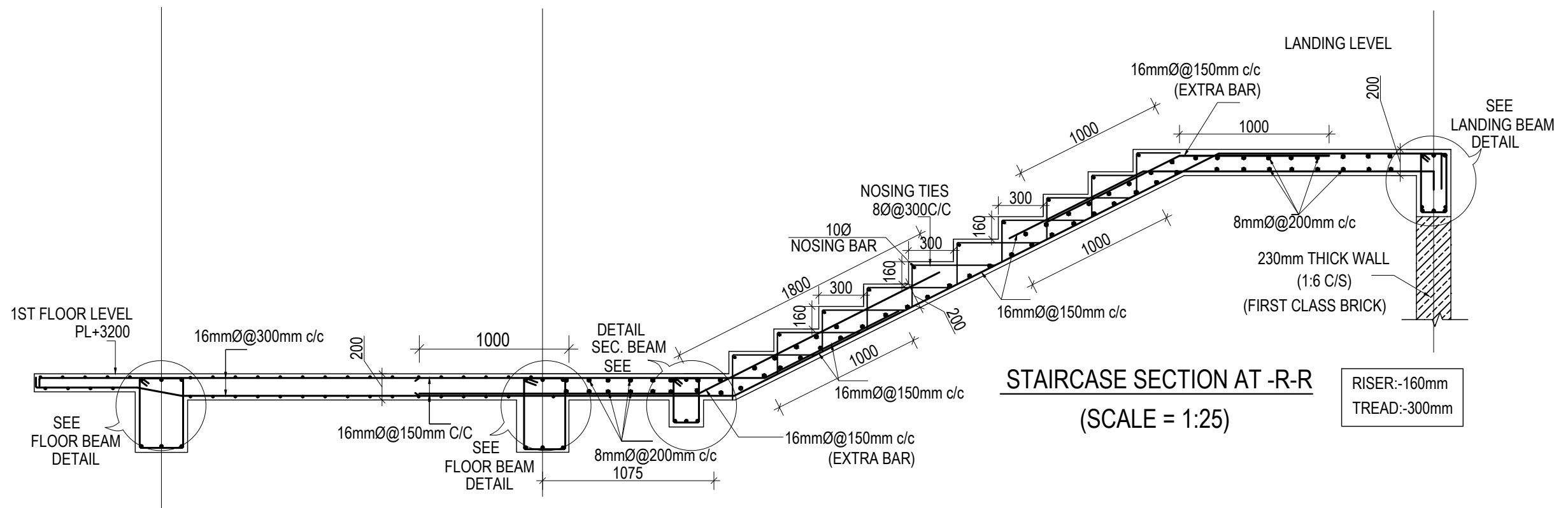
STAIRCASE SECTION AT -Q-Q
(SCALE = 1:25)

RISER:-160mm
TREAD:-300mm


CLIENT	PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM		SHEET NO.	REVISION NO.
Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Model and Big School	STAIRCASE DETAIL	A.S.K. ENGINEERING CONSULTANCY PVT. LTD. Nepal	ENGINEER:	STRUCTURE ER. :	ST-18	R-00
				ARCHITECT:	CHECKED:	DWG CODE. 3S12R- BIG & MODEL	
				DRAWN :	APPROVED:		
				SCALE : 1:120	PAPER SIZE : A3	DATE: FEBRUARY, 2023	

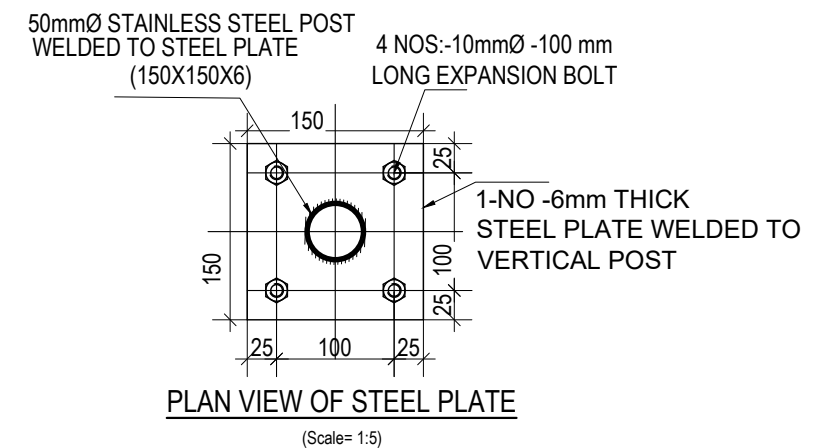
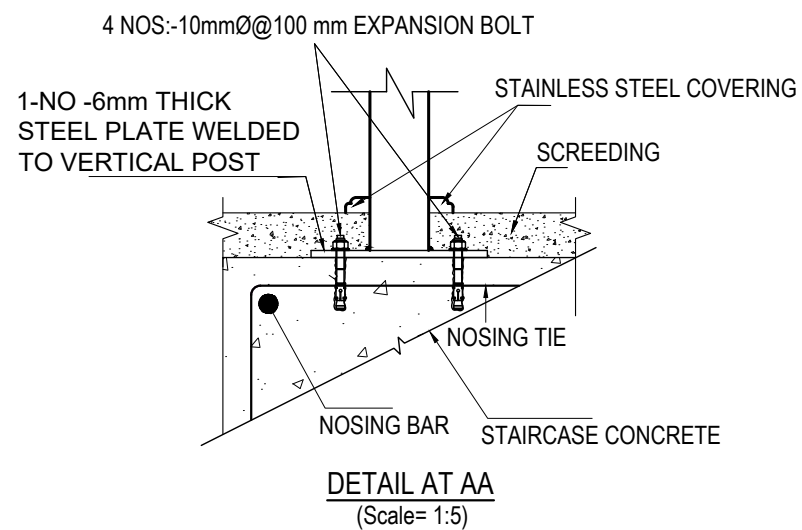
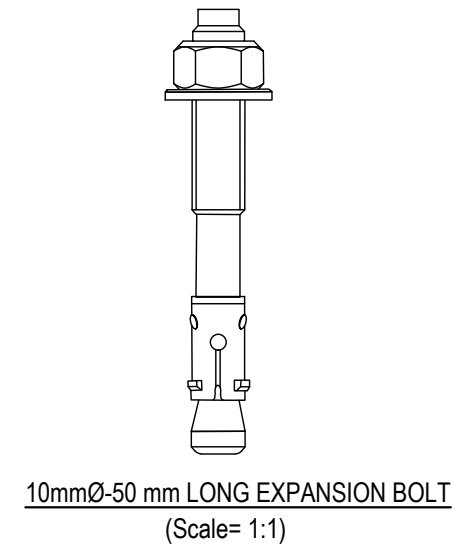
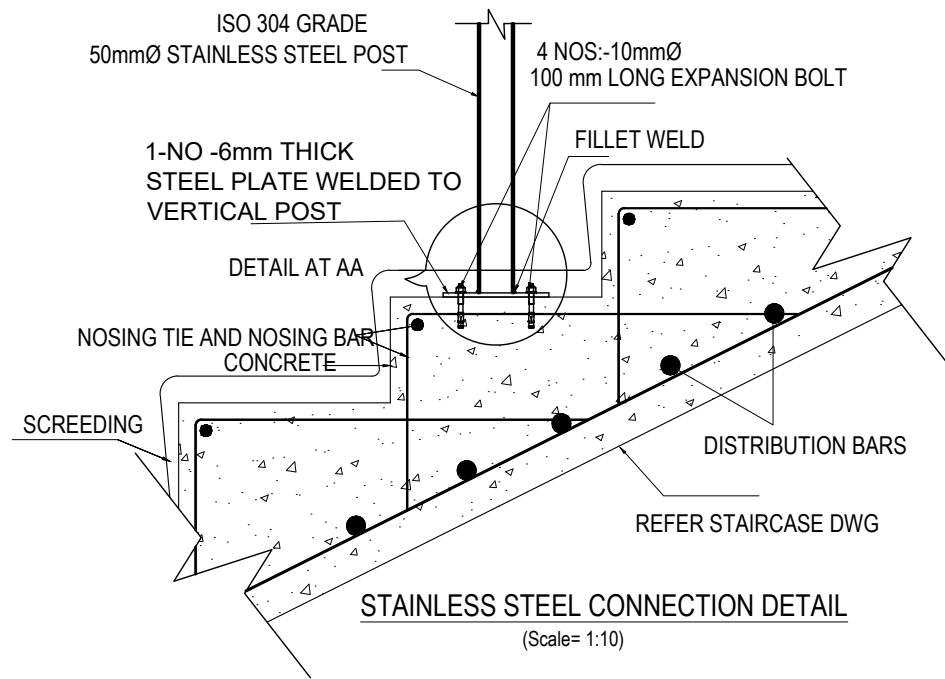


TYPICAL FLOOR STAIRCASE PLAN
(Scale= 1:50)




STAIRCASE SECTION AT -R-R
(SCALE = 1:25)

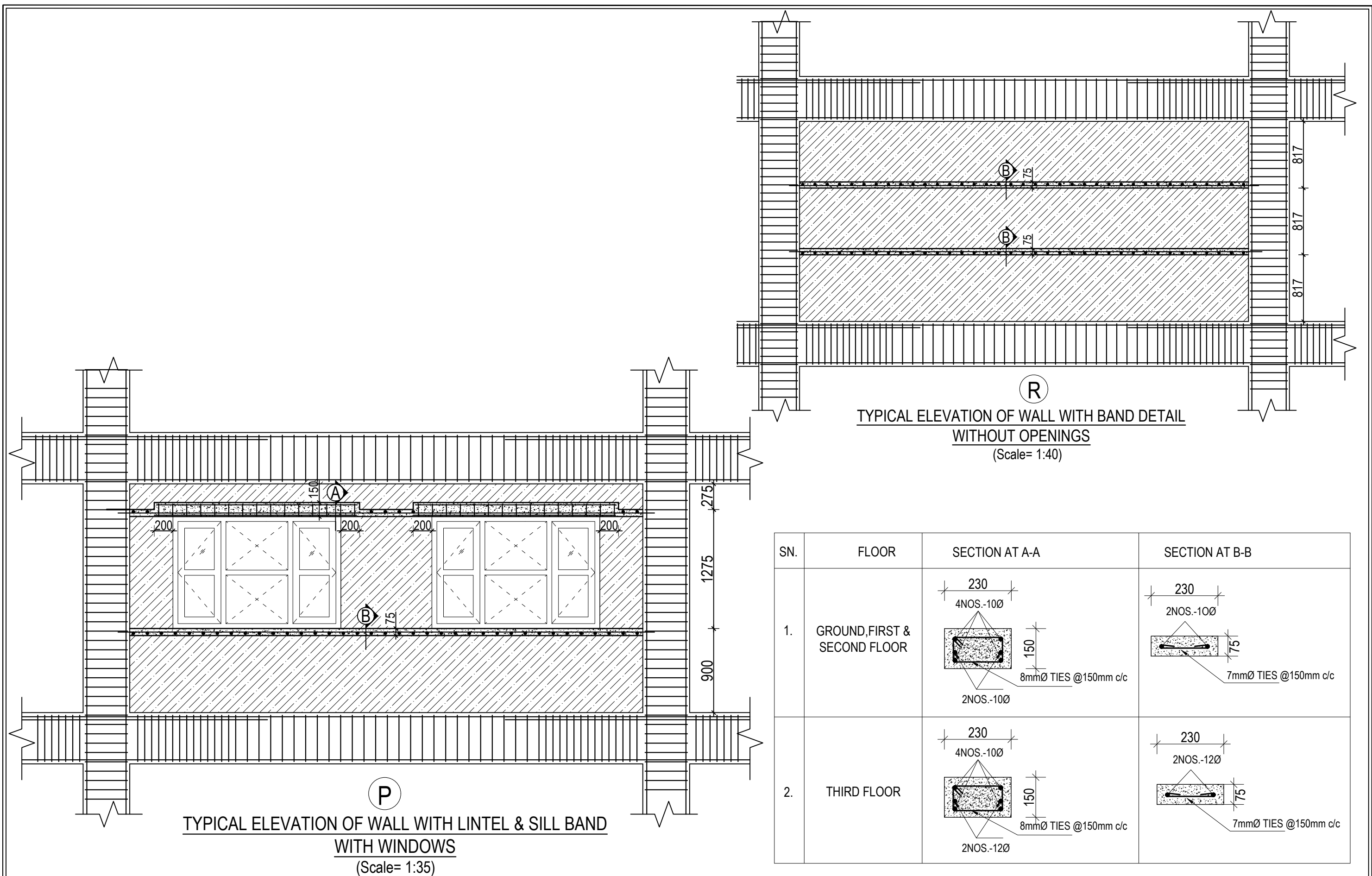
CLIENT		PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM		SHEET NO.	REVISION NO.
	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Model and Big School	STAIRCASE DETAIL	A.S.K. ENGINEERING CONSULTANCY PVT. LTD. Nepal	ENGINEER:	STRUCTURE ER. :	ST-19	R-00
					ARCHITECT:	CHECKED:		
					DRAWN :	APPROVED:	DWG CODE. 3S12R- BIG & MODEL	
					SCALE : 1:120	PAPER SIZE : A3		




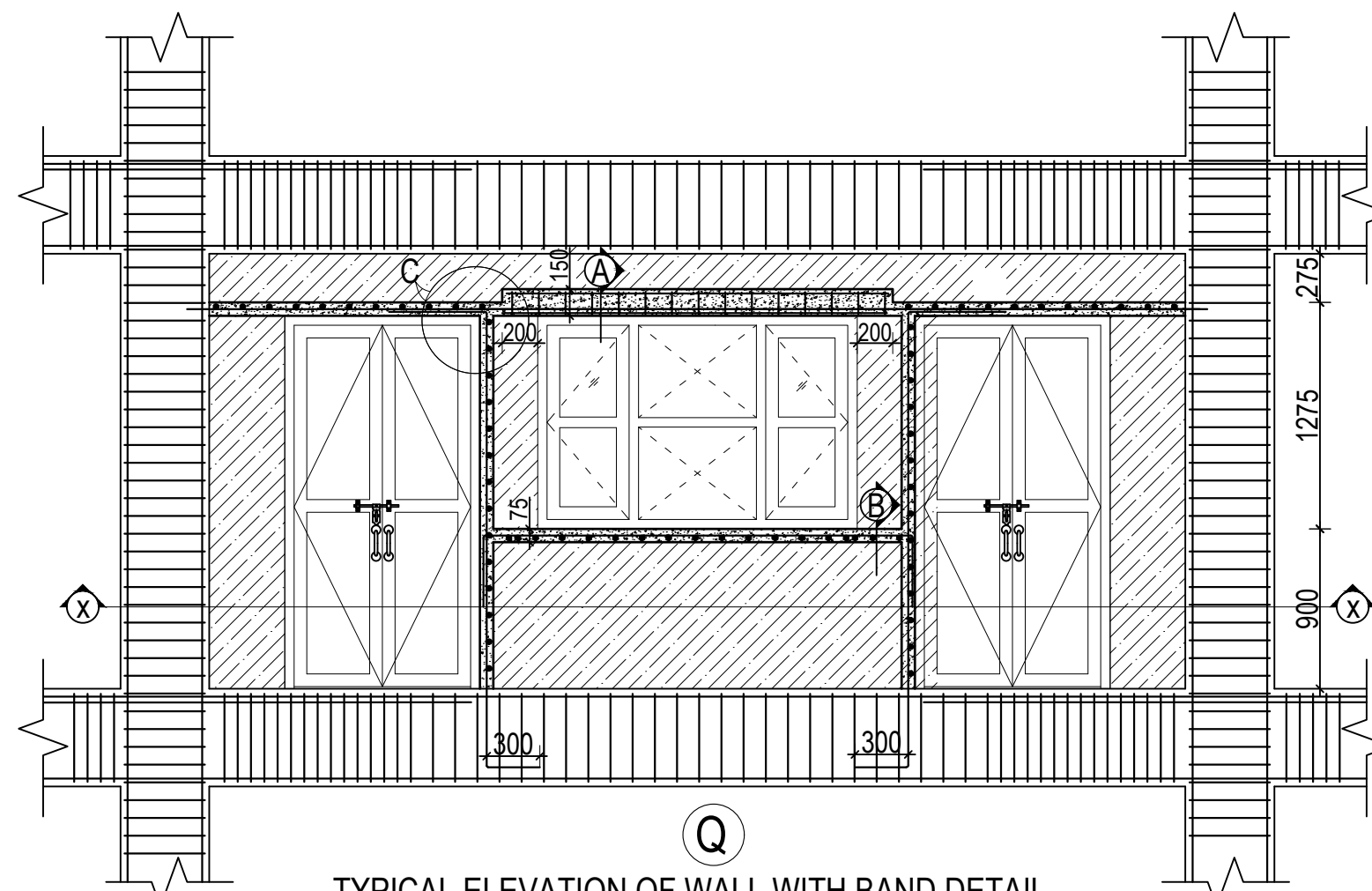
NOTE:

- 1) STAINLESS STEEL SHALL BE IN COMPLIANCE WITH ISO 304 GRADE
- 2) DRILLED HOLE SHALL BE PROPERLY CLEANED BEFORE EMBEDMENT OF BOLT

CLIENT		PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM		SHEET NO.	REVISION NO.
	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Model and Big School	STAIRCASE DETAIL	A.S.K. ENGINEERING CONSULTANCY PVT. LTD. Nepal	ENGINEER:		ST-20	
					STRUCTURE ER. :		R-00	
					ARCHITECT:		DWG CODE.	
					CHECKED:		3S12R- BIG & MODEL	
DRAWN :		APPROVED:		DATE: FEBRUARY, 2023				
SCALE : 1:120		PAPER SIZE : A3						

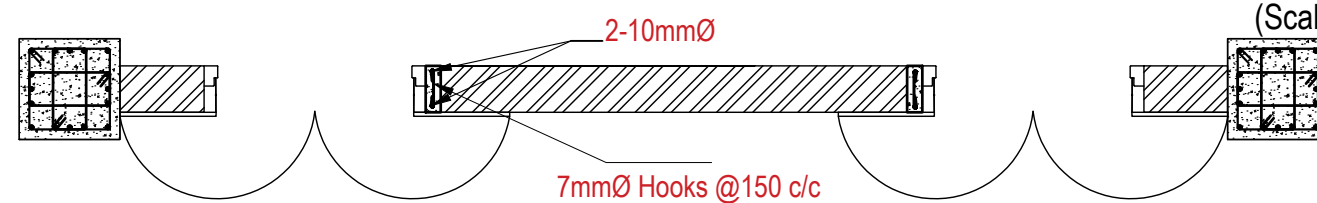


CLIENT		PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM		SHEET NO. ST-21	REVISION NO. R-00
	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Model and Big School	TYPICAL WALL DETAIL UPTO SECOND FLOOR	A.S.K. ENGINEERING CONSULTANCY PVT. LTD. Nepal	ENGINEER:	STRUCTURE ER. :	DWG CODE. 3S12R- BIG & MODEL	
					ARCHITECT:	CHECKED:		
					DRAWN :	APPROVED:		
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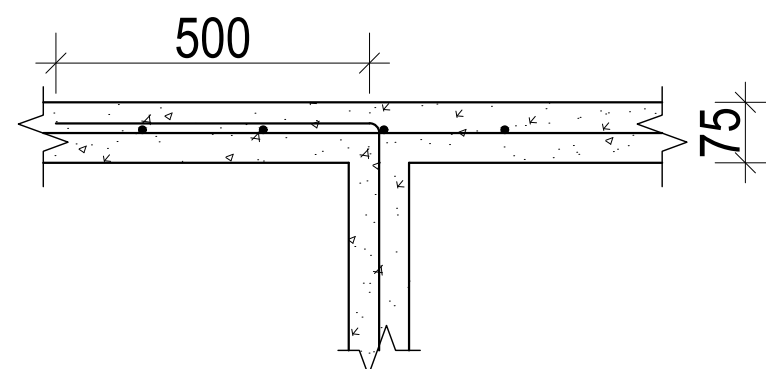


TYPICAL ELEVATION OF WALL WITH BAND DETAIL
WITH DOORS AND WINDOWS

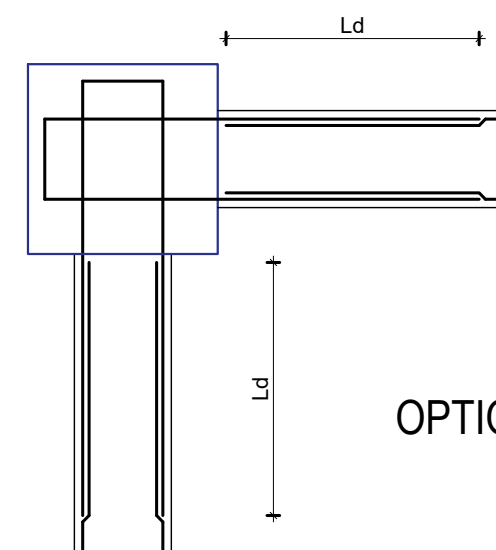
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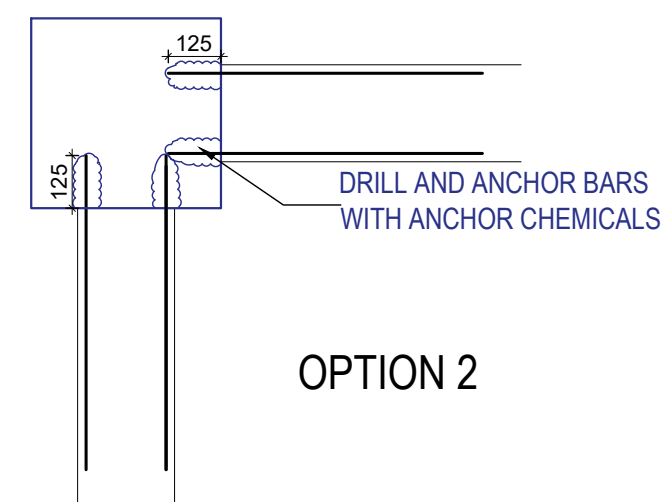
SECTION AT X-X



DETAIL AT C




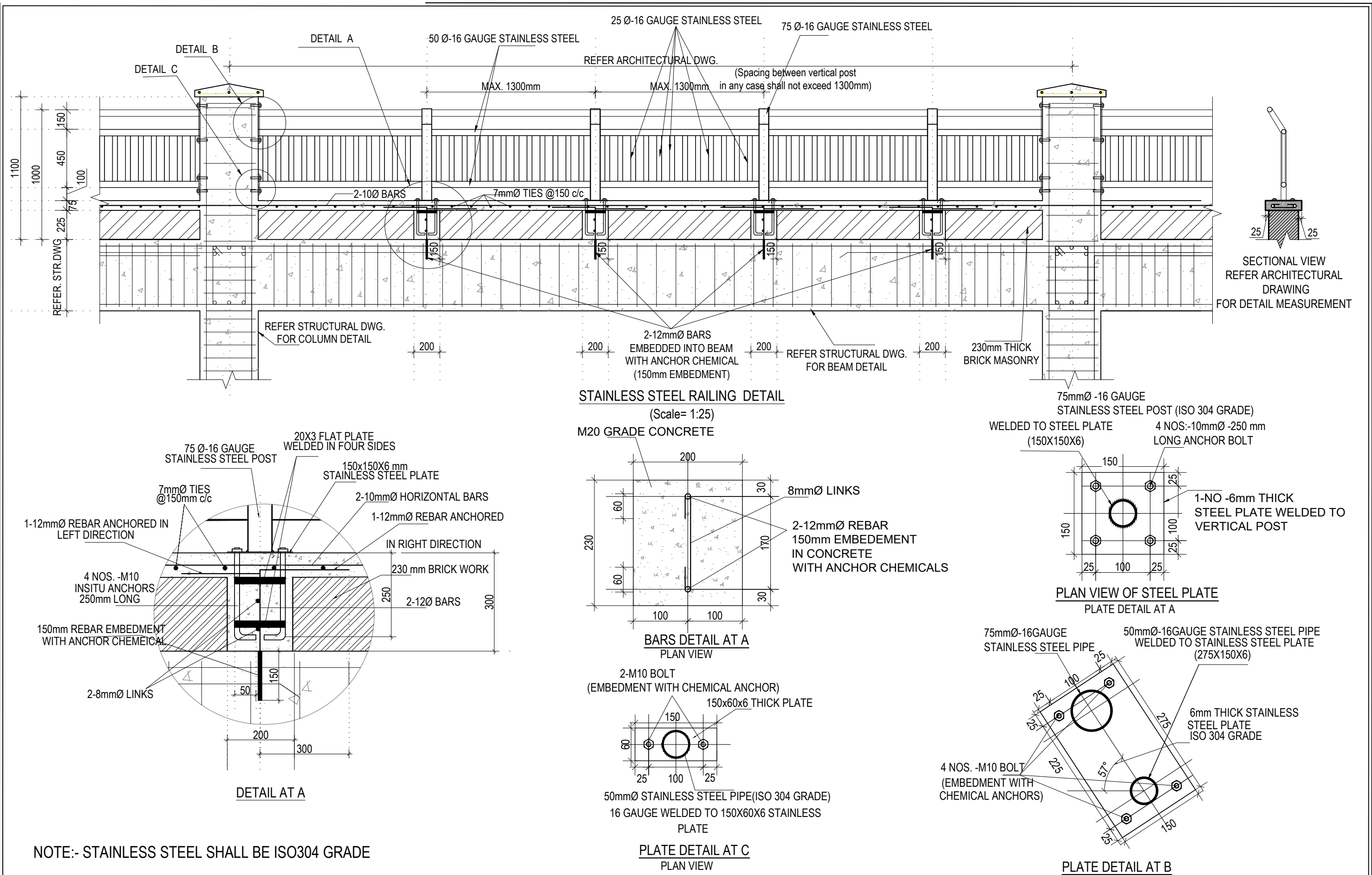
OPTION 1




OPTION 2

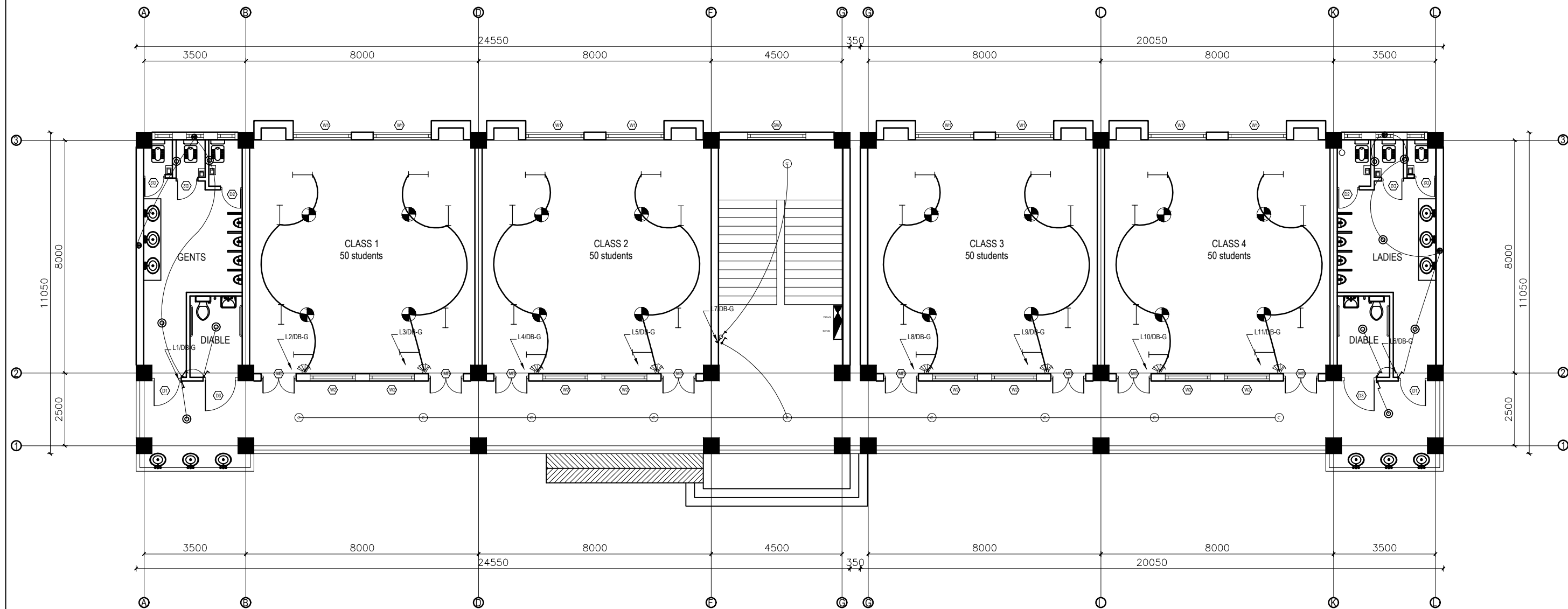
CONNECTION OF BAND REBARS AND COLUMN

CLIENT		PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM		SHEET NO.	REVISION NO.	
	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Model and Big School	TYPICAL WALL DETAIL UPTO SECOND FLOOR	A.S.K. ENGINEERING CONSULTANCY PVT. LTD. Nepal	ENGINEER:		STRUCTURE ER. :	ST-22	R-00
					ARCHITECT:		CHECKED:		
					DRAWN :		APPROVED:	DWG CODE. 3S12R- BIG & MODEL	
					SCALE : 1:120	PAPER SIZE : A3	DATE: FEBRUARY, 2023		



CLIENT	PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM		SHEET NO.	REVISION NO.
 Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Model and Big School	TYPICAL RAILING DETAILS	A.S.K. ENGINEERING CONSULTANCY PVT. LTD. Nepal	ENGINEER:	STRUCTURE ER. :	ST-23	R-00
				ARCHITECT:	CHECKED:	DWG CODE. 3S12R- BIG & MODEL	
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				SCALE : 1:120	PAPER SIZE : A3	DATE: FEBRUARY, 2023	

ELECTRICAL DRAWING




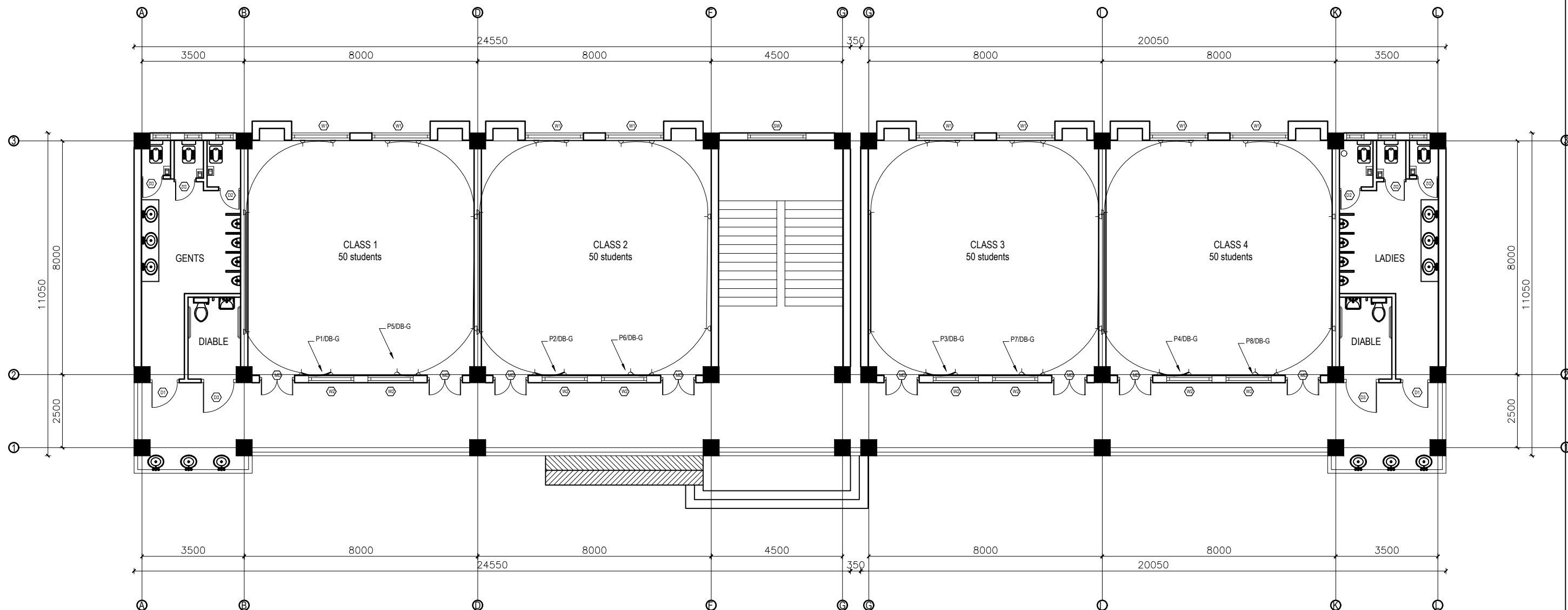
GROUND FLOOR PLAN

FLOOR AREA: 501.014 sq.m

LEGEND		
SYMBOL	DESCRIPTION	MOUNT HEIGHT
	40 W Tubelight	Attached to wall
	12W CFL Light Bulb	Attached to ceiling
	42" Ceiling Fan	Attached to ceiling
	Power Socket	300mm from finished floor level
	1,2,3 gang Switch	1.25m above finished floor level
	4,5,6 gang Switch	1.25m above finished floor level
	Two way Switch	1.25m above finished floor level
	Distribution Box	2.5m above finished floor level
	MDB	1m above finished floor level
	9" Exhaust Fan	24" BELOW SLAB

EARTHING & LIGHTNING PROTECTION SYSTEM		
SYMBOLS	DESCRIPTION	MOUNTING HEIGHT
	VERTICAL AIR TERMINAL	--
	CLIP TO HOLD DOWN CONDUCTOR	--
	EARTH TEST LINK	--
	EARTH PIT	--

CLIENT		PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM		SHEET NO. 01	REVISION NO. R-00
	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Big and Model School	ELECTRICAL DRAWING	A.S.K. ENGINEERING CONSULTANCY PVT.LTD.	ENGINEER:	STRUCTURE ER. :	DWG CODE. 3S12R-BIG & VALLEY	
					ARCHITECT:	CHECKED:		
					DRAWN :	APPROVED:		
					SCALE : PAPER SIZE : A3	DATE: FEBRUARY, 2023		



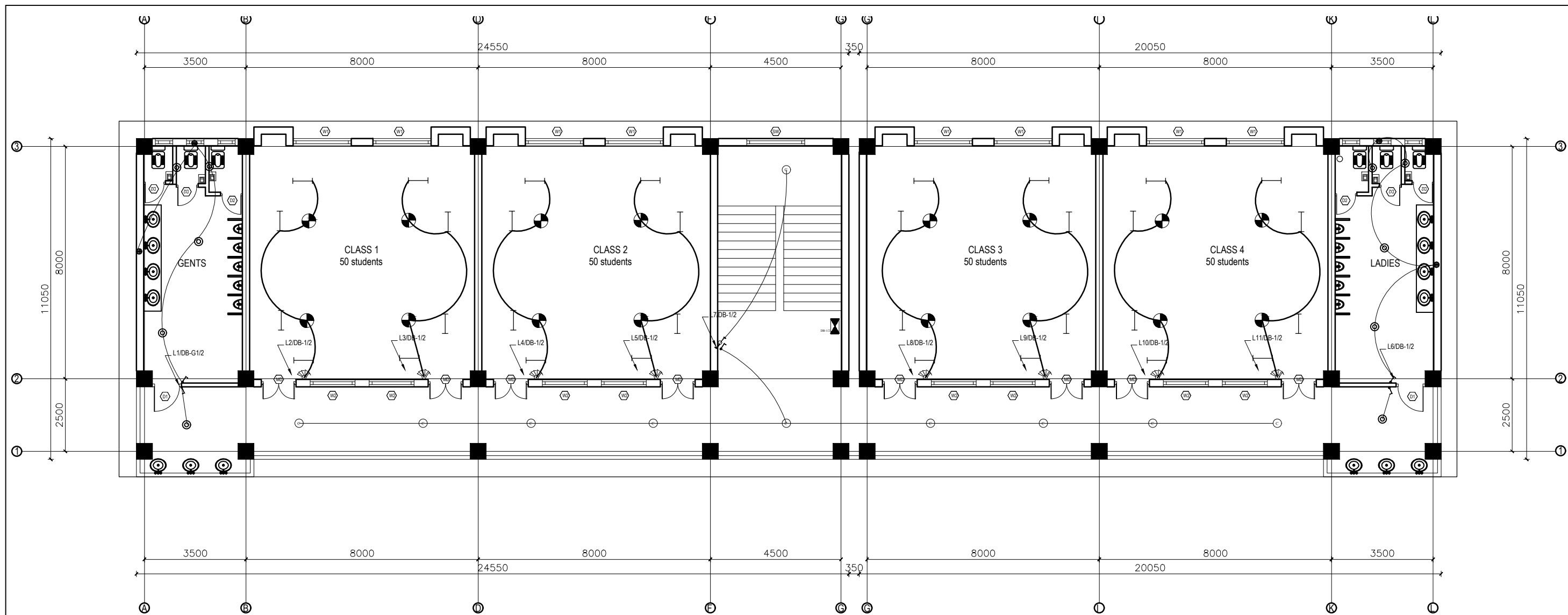
GROUND FLOOR PLAN

FLOOR AREA: 501.014 sq.m

LEGEND		
SYMBOL	DESCRIPTION	MOUNT HEIGHT
	40 W Tubelight	Attached to wall
	12W CFL Light Bulb	Attached to ceiling
	42" Ceiling Fan	Attached to ceiling
	Power Socket	300mm from finished floor level
	1,2,3 gang Switch	1.25m above finished floor level
	4,5,6 gang Switch	1.25m above finished floor level
	Two way Switch	1.25m above finished floor level
	Distribution Box	2.5m above finished floor level
	MDB	1m above finished floor level
	9" Exhaust Fan	24" BELOW SLAB

EARTHING & LIGHTNING PROTECTION SYSTEM		
SYMBOLS	DESCRIPTION	MOUNTING HEIGHT
	VERTICAL AIR TERMINAL	-
	CLIP TO HOLD DOWN CONDUCTOR	-
	EARTH TEST LINK	-
	EARTH PIT	-


CLIENT		PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM		SHEET NO. 02	REVISION NO. R-00
	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Big and Model School	ELECTRICAL DRAWING	A.S.K. ENGINEERING CONSULTANCY PVT.LTD.	ENGINEER:	STRUCTURE ER. :	DWG CODE. 3S12R-BIG & VALLEY	
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					DRAWN :	APPROVED:		
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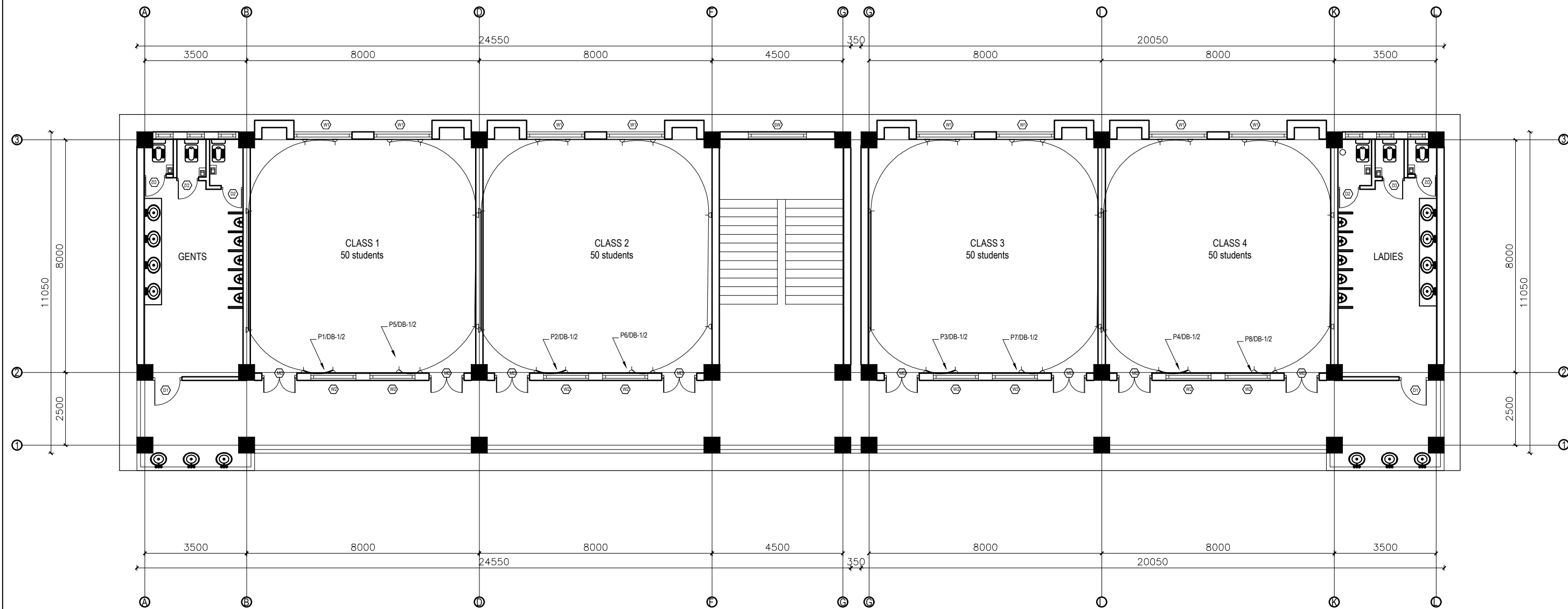


FIRST FLOOR PLAN
FLOOR AREA: 501.014 sq.m

LEGEND		
SYMBOL	DESCRIPTION	MOUNT HEIGHT
	40 W Tubelight	Attached to wall
	12W CFL Light Bulb	Attached to ceiling
	42" Ceiling Fan	Attached to ceiling
	Power Socket	300mm from finished floor level
	1,2,3 gang Switch	1.25m above finished floor level
	4,5,6 gang Switch	1.25m above finished floor level
	Two way Switch	1.25m above finished floor level
	Distribution Box	2.5m above finished floor level
	MDB	1m above finished floor level
	9" Exhaust Fan	24" BELOW SLAB

EARTHING & LIGHTNING PROTECTION SYSTEM		
SYMBOLS	DESCRIPTION	MOUNTING HEIGHT
	VERTICAL AIR TERMINAL	--
	CLIP TO HOLD DOWN CONDUCTOR	--
	EARTH TEST LINK	--
	EARTH PIT	--

CLIENT		PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM			SHEET NO. 03	REVISION NO. R-00
	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Big and Model School	ELECTRICAL DRAWING	A.S.K. ENGINEERING CONSULTANCY PVT.LTD.	ENGINEER:		STRUCTURE ER. :		DWG CODE. 3S12R-BIG & VALLEY
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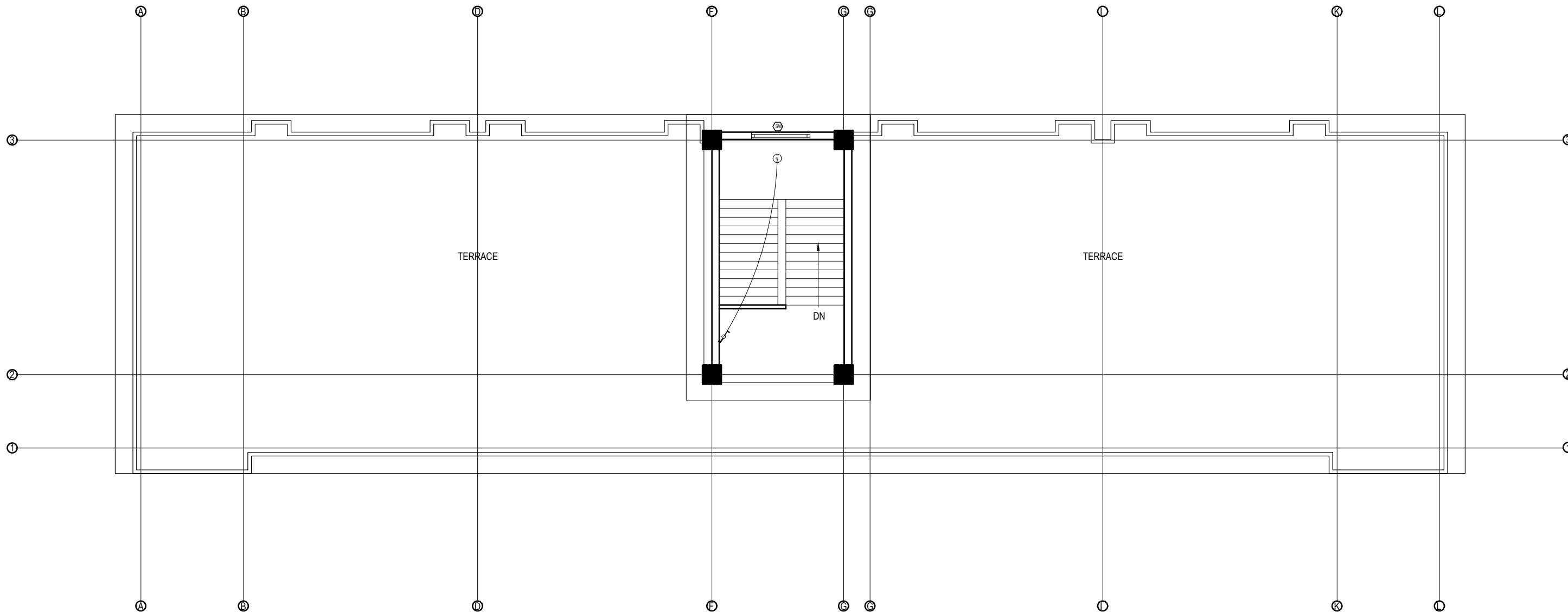


FIRST FLOOR PLAN
FLOOR AREA: 501.014 sq.m

LEGEND		
SYMBOL	DESCRIPTION	MOUNT HEIGHT
	40 W Tubelight	Attached to wall
	12W CFL Light Bulb	Attached to ceiling
	42" Ceiling Fan	Attached to ceiling
	Power Socket	300mm from finished floor level
	1,2,3 gang Switch	1.25m above finished floor level
	4,5,6 gang Switch	1.25m above finished floor level
	Two way Switch	1.25m above finished floor level
	Distribution Box	2.5m above finished floor level
	MDB	1m above finished floor level
	9" Exhaust Fan	24" BELOW SLAB











EARTHING & LIGHTNING PROTECTION SYSTEM		
SYMBOLS	DESCRIPTION	MOUNTING HEIGHT
	VERTICAL AIR TERMINAL	--
	CLIP TO HOLD DOWN CONDUCTOR	--
	EARTH TEST LINK	--
	EARTH PIT	--

CLIENT		PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM		SHEET NO. 04	REVISION NO. R-00
	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Big and Model School	ELECTRICAL DRAWING	A.S.K. ENGINEERING CONSULTANCY PVT.LTD.	ENGINEER:	STRUCTURE ER. :	DWG CODE. 3S12R-BIG & VALLEY	
					ARCHITECT:	CHECKED:		
					DRAWN :	APPROVED:		
					SCALE :	PAPER SIZE : A3	DATE: FEBRUARY, 2023	



TOP FLOOR PLAN

FLOOR AREA: 43.17 sq.m

LEGEND		
SYMBOL	DESCRIPTION	MOUNT HEIGHT
	40 W Tubelight	Attached to wall
	12W CFL Light Bulb	Attached to ceiling
	42" Ceiling Fan	Attached to ceiling
	Power Socket	300mm from finished floor level
	1,2,3 gang Switch	1.25m above finished floor level
	4,5,6 gang Switch	1.25m above finished floor level
	Two way Switch	1.25m above finished floor level
	Distribution Box	2.5m above finished floor level
	MDB	1m above finished floor level
	9" Exhaust Fan	24" BELOW SLAB

- * The switch box should be at 200mm from the door and 1250mm above floor.
- * General room socket height should be at 150mm above skirting wall.
- * Kitchen socket height should be at 450mm above kitchen top.
- * Toilet socket/switch should be at 1250mm above floor level and mirror light at 50 mm above mirror as per mirror slab
- * Exhaust fan should be at 600mm below slab.
- * Wall Light should be at 2100mm from floor level.

CABLE SIZES \ PVC CON. DIA.	NO OF MAXIMUM CABLE AND PVC FRLS CONDUIT SIZES					
	16 mm Dia.	20 mm Dia.	25 mm Dia.	32 mm Dia.	40 mm Dia.	50 mm Dia.
1.5 SQ. MM/Equivalent	5	7	10	14	---	---
2.5 SQ. MM/Equivalent	3	5	8	12	---	---
4.0 SQ. MM/Equivalent	---	3	6	10	12	---
6.0 SQ. MM/Equivalent	---	2	4	8	9	---
10 SQ. MM/Equivalent	---	---	3	6	8	---
16 SQ. MM/Equivalent	---	---	2	3	4	8

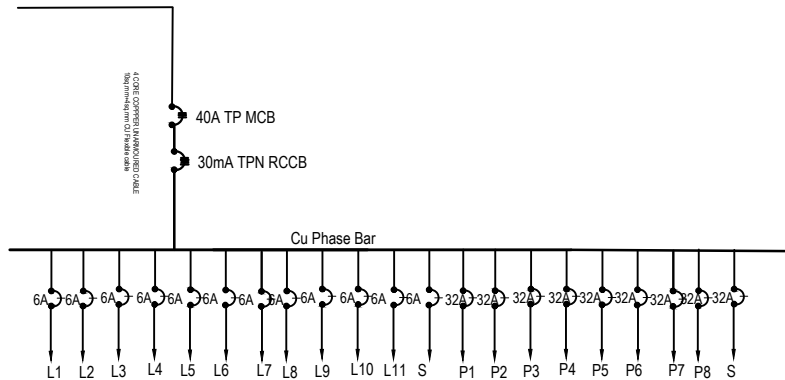
INCHES	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	3-1/2	4	5	6
mm	16	20	25	32	40	50	65	80	90	100	130	150

Air Conditioner/Heater/Range/Appliances
RJ – 45 Data / TV Point
RJ –11 Telecommunication point
Telephone Point
Outdoor Gate/ Post Top/Street Lights/Flood Lights
6 Amp switched outlet sockets
16 Amp Power Sockets Points
General Light Points (From DB to Switch Board)
Looping of Light Points

2x4.0 + 1x2.5 sq. mm copper wire
CAT 6 4 pairs Data cable
CAT 6 4 pairs Data cable
0.5mm dia PVC Insulated Tinned Cu Cable
3 x 2.5 sq. mm copper M/S wire
2x2.5 + 1x1.5 sq. mm copper M/S wire
2x4.0 + 1x2.5 sq. mm copper M/S wire
2x2.5 + 1x1.5 sq. mm copper M/S wire
2x1.5 + 1x1.0 sq. mm copper M/S wire

Rating (Amp)	6	10	20	32	40	63
Wire (sq. mm)	1.5	2.5	4.0	6.0	10	16

Neutral of AC 1/3 Phase	Black
Grounding/ Bounding/Earthing	Green
loop/common wire for 2 way switch	White
Live Phase A of 3 Phase	Red
Live Phase B of 3 Phase	Yellow
Live Phase C of 3 Phase	Blue



40A TP MCB

30mA TPN RCCB

Cu Phase Bar

6A 6A 6A 6A 6A 6A 6A 6A 6A 6A 6A 6A 32A 32A 32A 32A 32A 32A 32A 32A

L1 L2 L3 L4 L5 L6 L7 L8 L9 L10 L11 S P1 P2 P3 P4 P5 P6 P7 P8 S

300cm

30cm

50cm

15cm

70cm

19.05 mm (3/4") Ø G.L.P.I.P.E.

C.I. FRAME

WIRE MESH FUNNEL

SALT

CHARCOAL

SALT

CHARCOAL

60cm x 60cm COPPER PLATE

90cm

60cm

15cm

15cm

60cm

90cm

DETAIL OF CONNECTION BETWEEN COPPER PLATE AND COPPER NUT

COPPER PLATE EARTHING

(0-500 A) (0-500 V)

Indicator R/VB

EARTHING CONNECTOR

63 A TPMCCB, 10KA

TP RCCB, 100mA

TPN COPPER BUSBAR

40 A TPMCB

40 A TPMCB

40 A TPMCB

40 A TPMCB

Out Going to:	Ground - DB	First/ Second Floor	SPARE
Rating of MCB	40A TP MCB	40A TP MCB	
Cable Size:	4x10 sq.mm (unarmour Copper Cable)	4x10 sq.mm (unarmour Copper Cable)	



ENGINEER:		STRUCTURE ER. :
ARCHITECT:		CHECKED:
DRAWN :		APPROVED:
SCALE :	PAPER SIZE : A3	DATE: FEBRUARY, 2023

3S12R-BIG & VALLEY



Government of Nepal
Ministry of Education, Science & Technology
Center for Education and Human Resource Development
Sanothimi, Bhaktapur, Nepal

PREPARE SCHOOL BUILDING TYPE DESIGN FOR MODEL AND BIG SCHOOL

Contract ID: CEHRD/SESP/SQ/Consultancy/05/2079/080

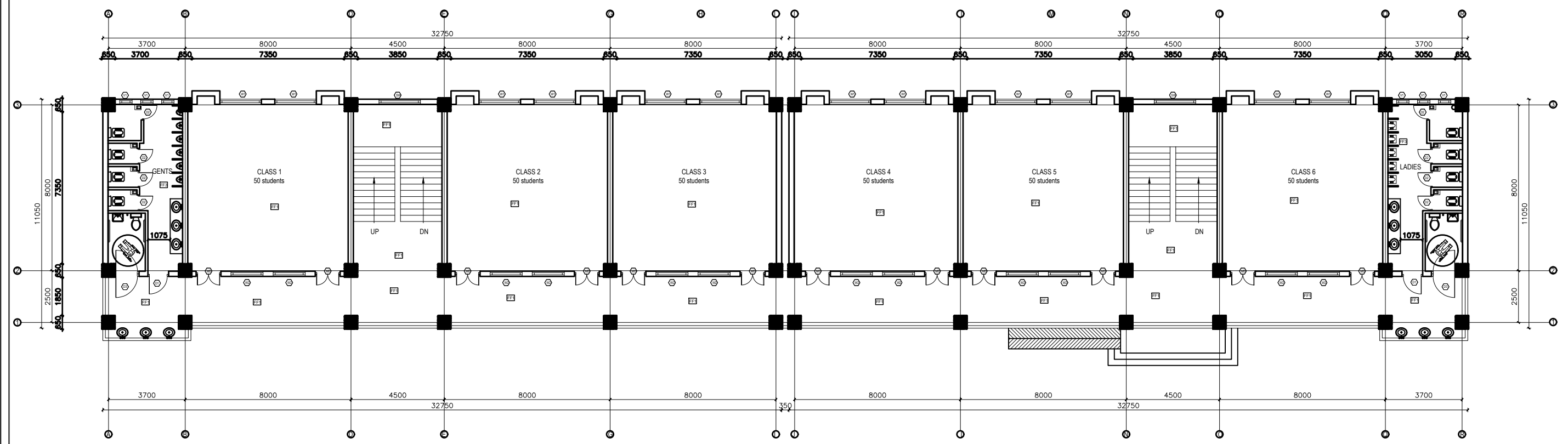
DETAIL DESIGN AND DRAWING

**3 STORY@18 ROOM WITH
(TOILET, WASH ROOM, CHANGING ROOM & CHANGING ROOM)**

SUBMITTED BY:
A.S.K. ENGINEERING CONSULTANCY PVT. LTD.

FEBRUARY, 2023


ARCHITECTURAL DRAWING



GROUND FLOOR PLAN
FLOOR AREA: 734.12 sq.m

FINISHING DETAILS:	
FF1	38 mm PCC (M15) with 1:1 cement punning with floor hardener (Dreitop FH, mapetop, Sika Chapdur or equivalent)
FF2	50 mm PCC (M15) with 1:1 cement punning in a 600X600 thread cut grid with floor hardener (Dreitop FH, mapetop, Sika Chapdur or equivalent) and water proofing (safe-crete or equivalent)
FF3	6 mm thick porcelain non-glaze tile with 20 mm cement sand mortar (1:4)

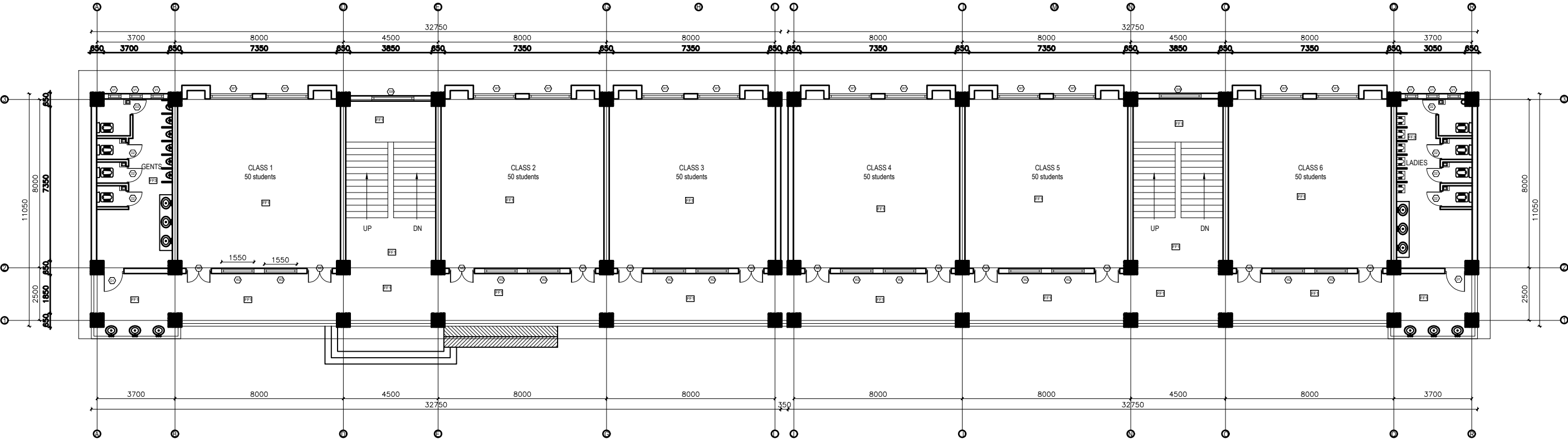
- NOTES:
1. All measurements are in mm unless otherwise noted.
 2. Architectural drawing should be read in conjunction with Structural, Sanitary and Electrical drawings.
 3. Site Engineer to notify the consultant if any discrepancy in dimensions found in drawings as per the site condition.
 4. Sill and Lintel dimensions are measured from the Slab Lvl.
 5. Dimensions are excluding the plaster/POP thickness.

CLIENT		PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM			SHEET NO. AR - 01	REVISION NO. R-00
 <div>Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal</div>	Prepare School Building Type Design for Big and Model School		A.S.K. ENGINEERING CONSULTANCY PVT.LTD.	ENGINEER:		STRUCTURE ER. :		DWG CODE. 3S18R - BIG & MODEL	
				ARCHITECT:		CHECKED:			
				DRAWN :		APPROVED:			
				SCALE : 1:120	PAPER SIZE : A3	DATE: FEBRUARY, 2023			


- NOTES:
1. All measurements are in mm unless otherwise noted.
 2. Architectural drawing should be read in conjunction with Structural, Sanitary and Electrical drawings.
 3. Site Engineer to notify the consultant if any discrepancy in dimensions found in drawings as per the site condition.
 4. Sill and Lintel dimensions are measured from the Slab Lvl.
 5. Dimensions are excluding the plaster/POP thickness.

FINISHING DETAILS:

FF1	38 mm PCC (M15) with 1:1 cement punning with floor hardener (Dreitop FH, mapetop, Sika Chapdur or equivalent)
FF2	50 mm PCC (M15) with 1:1 cement punning in a 600X600 thread cut grid with floor hardener (Dreitop FH, mapetop, Sika Chapdur or equivalent) and water proofing (safe-crete or equivalent)
FF3	6 mm thick porcelain non-glaze tile with 20 mm cement sand mortar (1:4)



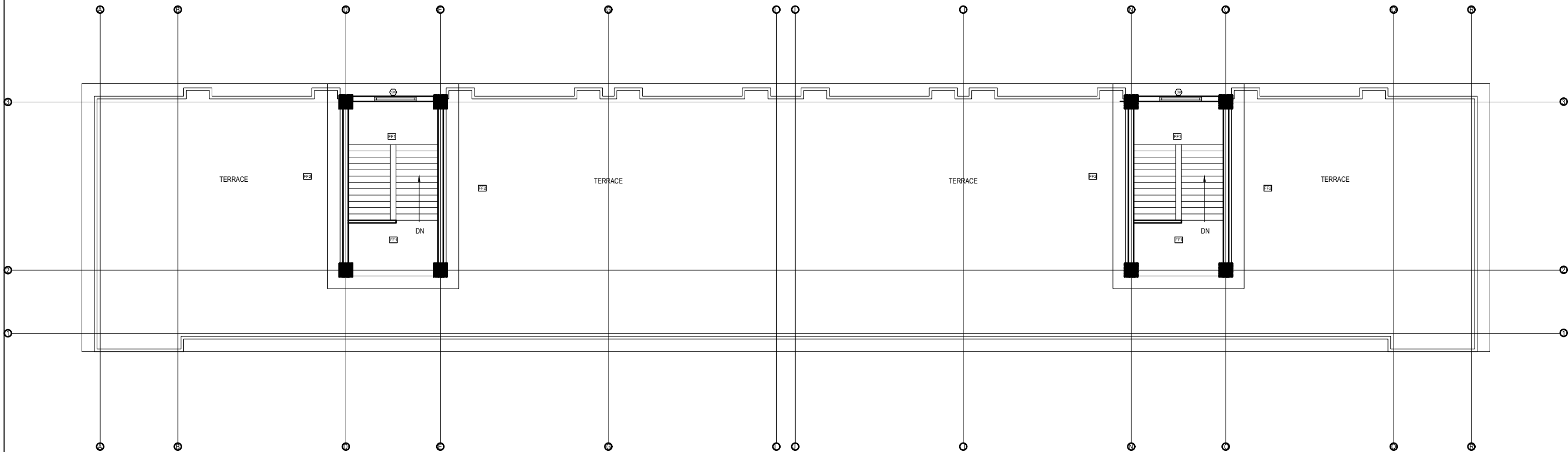
FIRST FLOOR PLAN
FLOOR AREA: 734.12 sq.m

CLIENT		PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM		SHEET NO. AR - 02	REVISION NO. R-00	
	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Big and Model School		A.S.K. ENGINEERING CONSULTANCY PVT.LTD.	ENGINEER:		STRUCTURE ER. :		
					ARCHITECT:		CHECKED:		
					DRAWN :		APPROVED:		
					SCALE : 1:120	PAPER SIZE : A3	DATE: FEBRUARY, 2023		
								DWG CODE. 3S18R - BIG & MODEL	


FINISHING DETAILS:

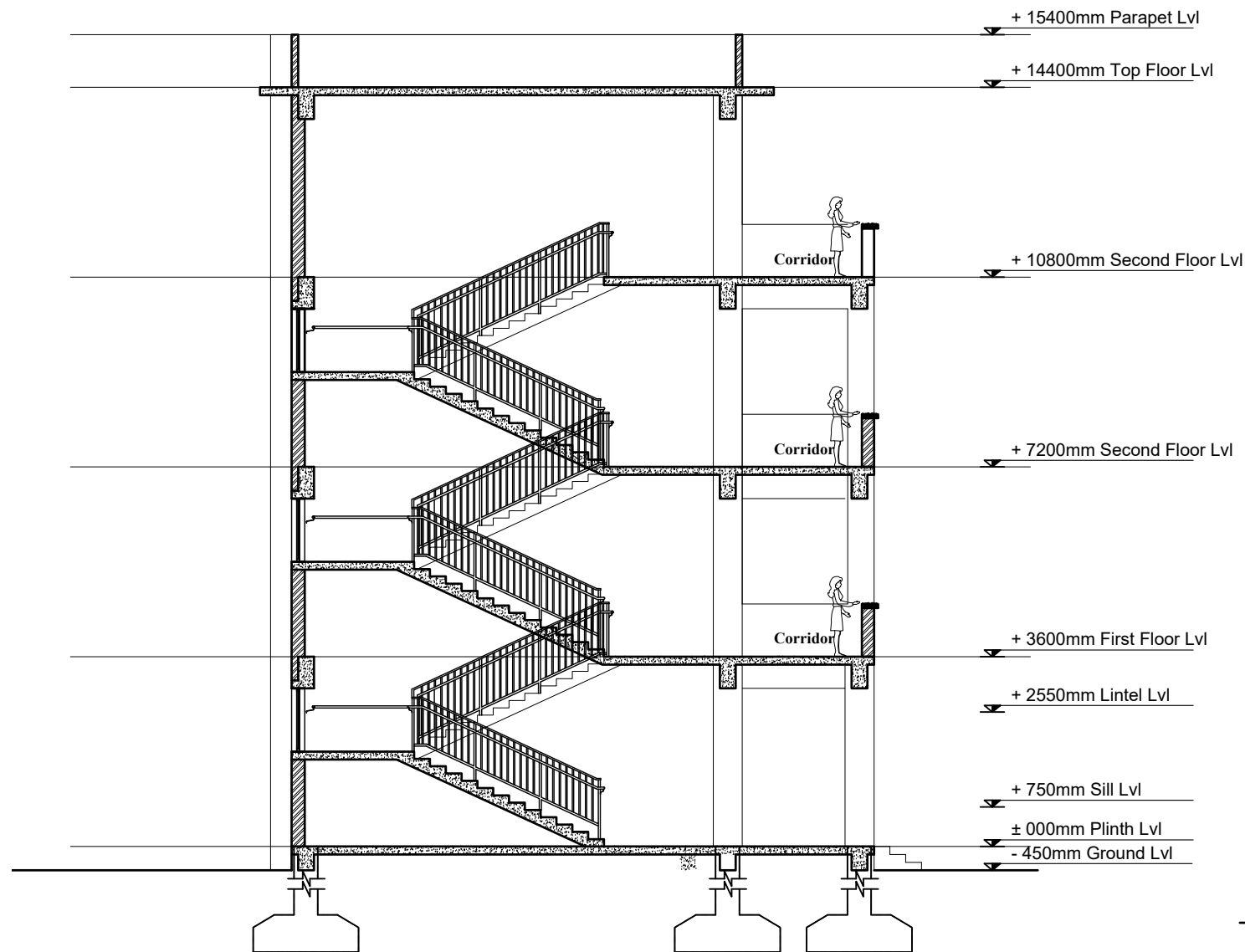
FF1	38 mm PCC (M15) with 1:1 cement punning with floor hardener (Dreitop FH, mapetop, Sika Chapdur or equivalent)
FF2	50 mm PCC (M15) with 1:1 cement punning in a 600X600 thread cut grid with floor hardener (Dreitop FH, mapetop, Sika Chapdur or equivalent) and water proofing (safe-crete or equivalent)
FF3	6 mm thick porcelain non-glaze tile with 20 mm cement sand mortar (1:4)

- NOTES:
- All measurements are in mm unless otherwise noted.
 - Architectural drawing should be read in conjunction with Structural, Sanitary and Electrical drawings.
 - Site Engineer to notify the consultant if any discrepancy in dimensions found in drawings as per the site condition.
 - Sill and Lintel dimensions are measured from the Slab Lvl.
 - Dimensions are excluding the plaster/POP thickness.



TOP FLOOR PLAN
FLOOR AREA: 86.34 sq.m

CLIENT		PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM		SHEET NO. AR - 03	REVISION NO. R-00
	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Big and Model School		A.S.K. ENGINEERING CONSULTANCY PVT.LTD.	ENGINEER:	STRUCTURE ER. :	DWG CODE. 3S18R - BIG & MODEL	
					ARCHITECT:	CHECKED:		
					DRAWN :	APPROVED:		
					SCALE : 1:120	PAPER SIZE : A3	DATE: FEBRUARY, 2023	




SECTION AT A-A

- NOTES:
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 5. Dimensions are excluding the plaster/POP thickness.

OPENING SCHEDULE


S.N.	SYMBOL	SIZES	G.F.	F.F.	S.F.	TOTAL	SILL HT.	REMARKS
1.	MD	1200 x 2550	12	12	12	36	-	
2.	D1	1000 x 2550	2	2	2	6	-	
3.	D2	750 x 2100	6	6	6	18	-	
4.	D3	1200 x 2550	2			2	-	
5.	W1	2000 x 1800	12	12	12	36	750 MM	
6.	W2	1550 x 1800	6	6	6	18	750 MM	
7.	SW	2000 x 1200	1	1	1	3	1530 MM	
8.	V1	600 x 600	6	6	6	18	1800 MM	

CLIENT		PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM		SHEET NO. AR - 04	REVISION NO. R-00	
	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Big and Model School		A.S.K. ENGINEERING CONSULTANCY PVT.LTD.	ENGINEER:		STRUCTURE ER. :		
					ARCHITECT:		CHECKED:		
					DRAWN :		APPROVED:		
					SCALE : 1:120	PAPER SIZE : A3	DATE: FEBRUARY, 2023		
								DWG CODE. 3S18R - BIG & MODEL	

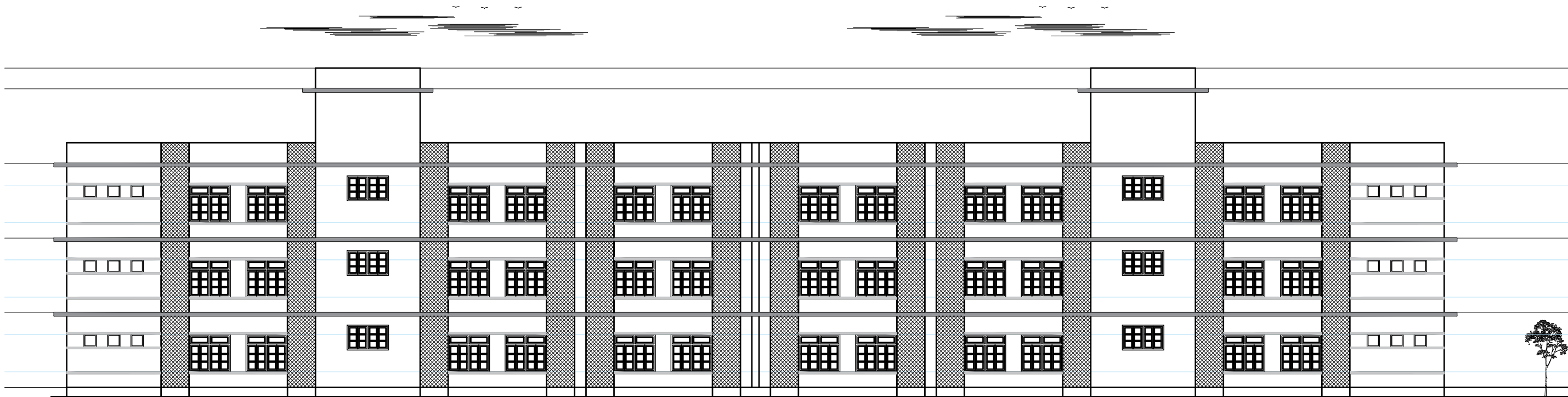
- NOTES:
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 - 3. Site Engineer to notify the consultant if any discrepancy in dimensions found in drawings as per the site condition.
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FRONT ELEVATION

CLIENT		PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM		SHEET NO. AR - 05	REVISION NO. R-00	
	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Big and Model School		A.S.K. ENGINEERING CONSULTANCY PVT.LTD.	ENGINEER:		STRUCTURE ER. :		
					ARCHITECT:		CHECKED:		
					DRAWN :		APPROVED:		
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								DWG CODE. 3S18R - BIG & MODEL	

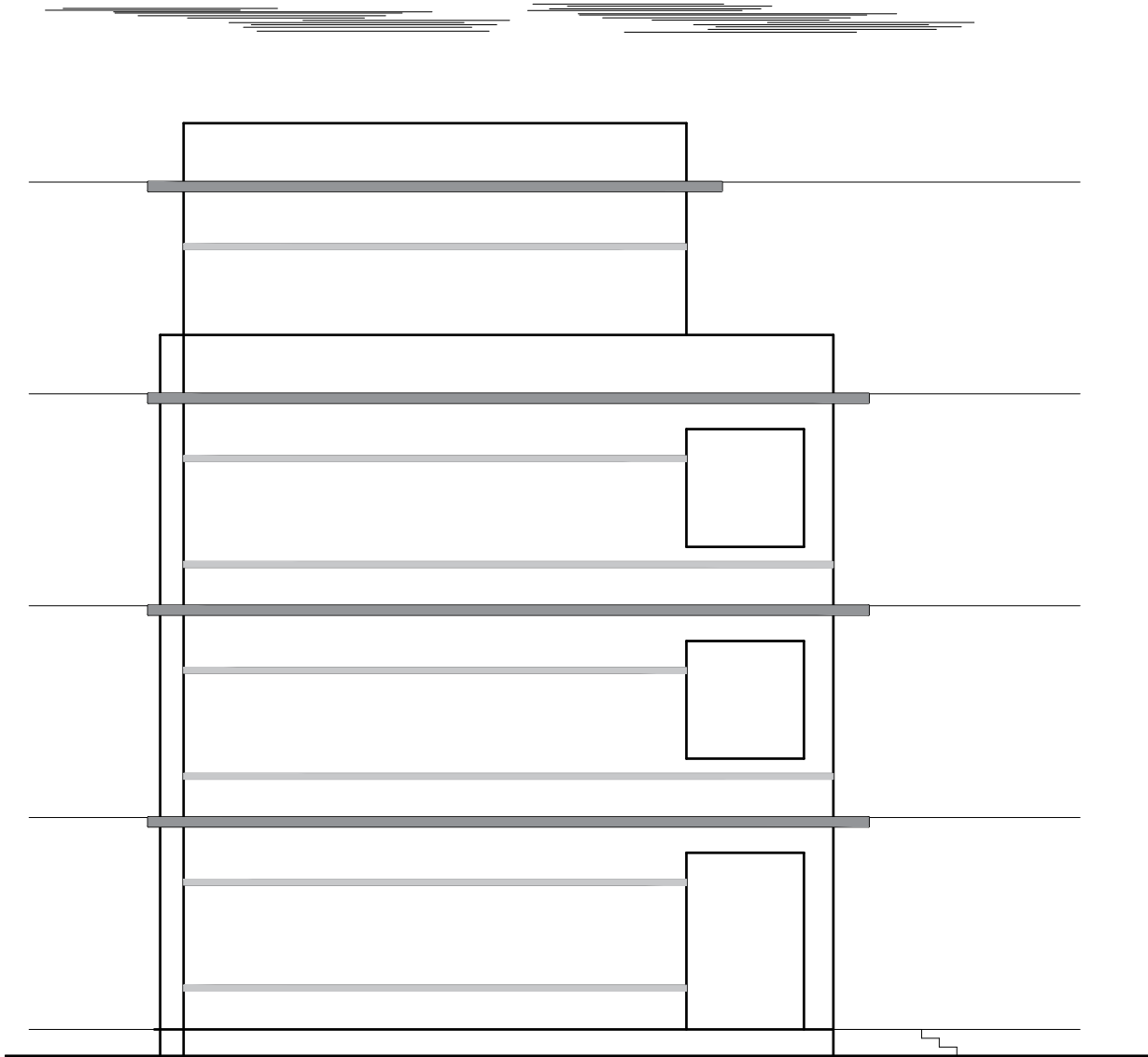
- NOTES:
- 1. All measurements are in mm unless otherwise noted.
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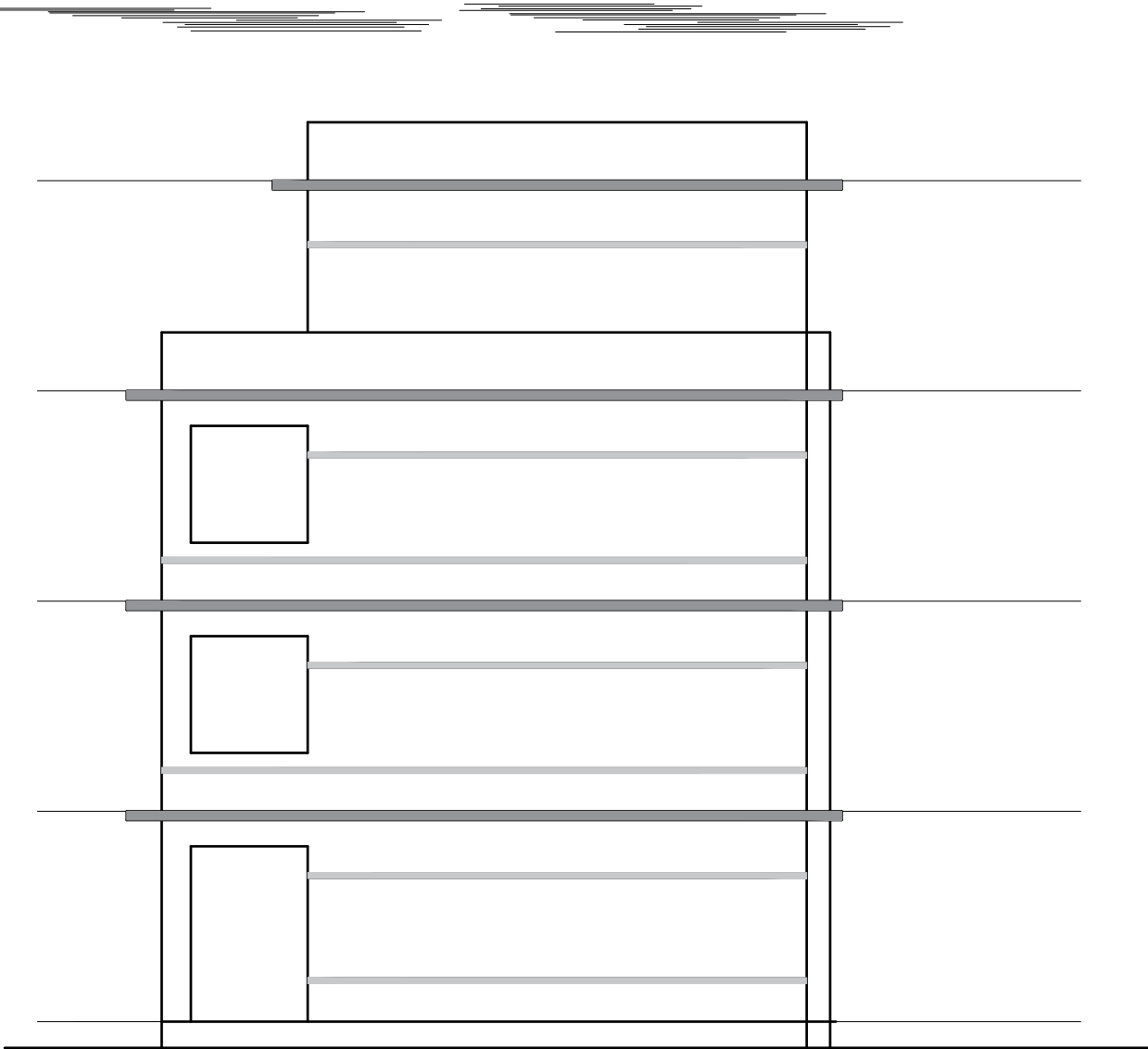
BACK ELEVATION

CLIENT		PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM		SHEET NO. AR - 06	REVISION NO. R-00	
	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Big and Model School		A.S.K. ENGINEERING CONSULTANCY PVT.LTD.	ENGINEER:		STRUCTURE ER. :		
					ARCHITECT:		CHECKED:		
					DRAWN :		APPROVED:		
					SCALE : 1:120	PAPER SIZE : A3	DATE: FEBRUARY, 2023		
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 4. Sill and Lintel dimensions are measured from the Slab Lvl.
 5. Dimensions are excluding the plaster/POP thickness.



SIDE-2 ELEVATION




SIDE-1 ELEVATION

CLIENT		PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM		SHEET NO. AR - 07	REVISION NO. R-00
	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Big and Model School		A.S.K. ENGINEERING CONSULTANCY PVT.LTD.	ENGINEER:	STRUCTURE ER. :	DWG CODE. 3S18R - BIG & MODEL	
					ARCHITECT:	CHECKED:		
					DRAWN :	APPROVED:		
					SCALE : 1:120	PAPER SIZE : A3	DATE: FEBRUARY, 2023	


-
- 5.
- RAMP PLAN
- LVL ±000
- 5275
- RAMP (SLOPE 1:12)
- UP
- LVL -45
- B
- B



CLIENT		PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM		SHEET NO. AR - 08	REVISION NO. R-00
 <div>Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal</div>	Prepare School Building Type Design for Big and Model School		A.S.K. ENGINEERING CONSULTANCY PVT.LTD.	ENGINEER:		STRUCTURE ER. :	DWG CODE. 3S18R - BIG & MODEL	
				ARCHITECT:		CHECKED:		
				DRAWN :		APPROVED:		
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STRUCTURAL DRAWING

SN.	DRAWING LIST
1.	GENERAL NOTES
3.	FOOTING DETAIL FOR 100kN/m2
4.	TYPICAL FLOORING DETAIL
5.	SITE SPECIFIC DRAWING
6.	TYPICAL DETAILS OF FOUNDATION WALL
7.	COLUMN DETAIL
8.	BEAM PLAN
9.	BEAM DETAIL
10.	SLAB DETAIL
11.	STAIRCASE DETAIL
12.	BAND DETAIL
13.	RAILING DETAIL

CLIENT		PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM		SHEET NO.	REVISION NO.
	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Model and Big School	TABLE OF CONTENTS	A.S.K. ENGINEERING CONSULTANCY PVT. LTD. Nepal	ENGINEER:		DWG CODE. 3S18R - BIG & MODEL	R-00
					ARCHITECT:			
					DRAWN :			
					SCALE : 1:120	PAPER SIZE : A3		
					DATE: FEBRUARY, 2023			

GENERAL NOTES:

1. USE M25 GRADE CONCRETE FOR SLAB, BEAM, COLUMN, FOUNDATION, SILL & LINTEL BANDS (ALL RCC WORKS)
2. USE Fe500 GRADE STEEL ($f_y=500\text{N/mm}^2$)
3. CLEAR COVER TO BARS

a. FOR CONCRETE MEMBERS IN CONTACT WITH SOIL = MIN 50mm

b. FOR COLUMN (FROM FACE TO LATERAL TIES) = 40mm

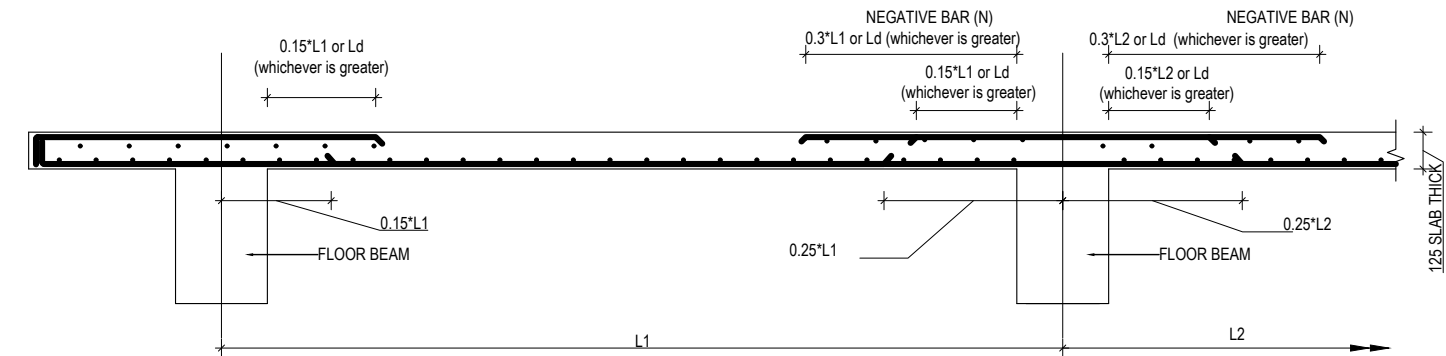
c. FOR BEAMS (FROM FACE TO LATERAL STIRRUPS) = 25mm

d. FOR OUTER BARS IN SLAB = 15mm

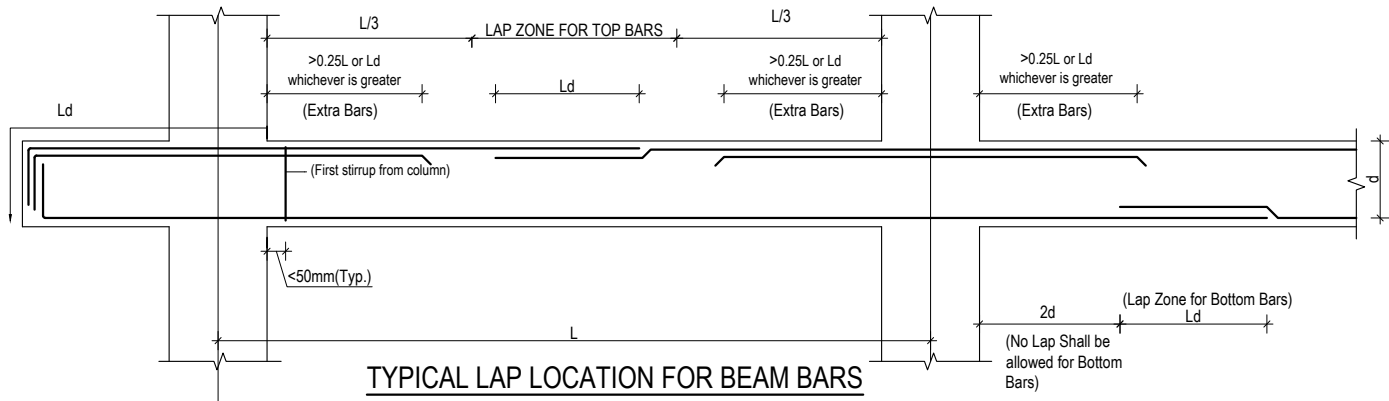
e. FOR STAIRCASE = 20mm
4. BARS IN COLUMNS SHALL BE SPLICED ONLY AT MID HEIGHT OF COLUMN.
5. BARS SPLICING IN BEAM SHALL BE AVOIDED IN THE SPAN WHERE INTERMEDIATE BEAM IS CONNECTED AND SHALL BE ONLY AS SHOWN IN DWG.
6. DEVELOPMENT / LAP LENGTH (L_d) FOR BARS.

BAR DIA-(mm)	8	10	12	16	20	25
FOR M25 L_d	400	490	590	790	980	1230

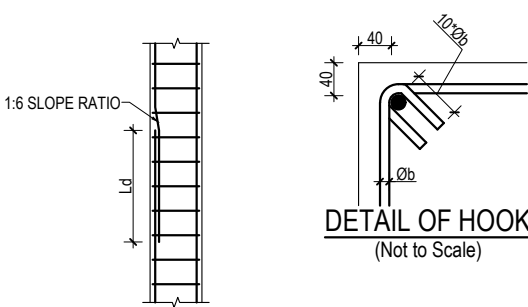
7. TEMP./DISTRIBUTION REINFORCEMENT FOR SLAB - TMT 8@ 200 C/C
8. CLEAR VERTICAL DISTANCE BETWEEN TWO ROWS (LAYERS) OF BARS=25mm OR MAXIMUM SIZE OF REBAR
9. PROVIDE STIRRUPS OR TIES AT MIN 150 C/C AT LAP LOCATIONS IN BEAM AND AT MIN 100 C/C AT LAP LOCATION IN COLUMNS.
10. FOUNDATION
- 10.1 FOUNDATION DESIGN HAVE BEEN PROVIDED FOR SAFE BEARING CAPACITY OF 100KN/m2,150kN/m2 ,200KN/m2.
- 10.2 IF SAFE BEARING CAPACITY OF SOIL IS FOUND LESS THAN 100KN/m2, SPECIAL STUDY FOR FOUNDATION DESIGN IS REQUIRED.
11. H = CLEAR SPAN OF FLOOR.
12. D=DEPTH OF BEAM
13. d=EFFECTIVE DEPTH OF BEAM
14. L_d =DEVELOPMENT LENGHT



TYPICAL DETAIL FOR SLAB BARS

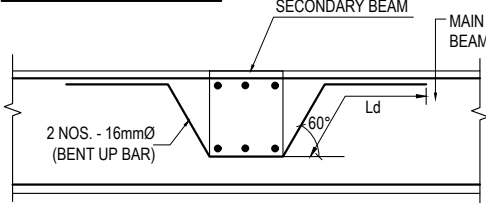


TYPICAL LAP LOCATION FOR BEAM BARS
(STIRRUPS NOT SHOWN FOR CLARITY)

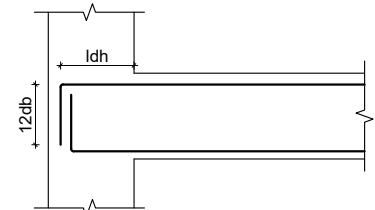


DETAIL OF HOOK
(Not to Scale)

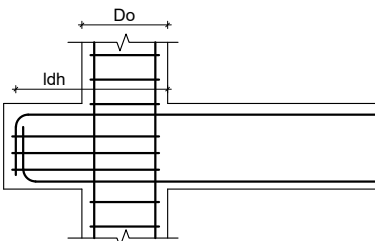
LAPPING METHOD



CONNECTION DETAIL BETWEEN
MAIN & SECONDARY BEAM



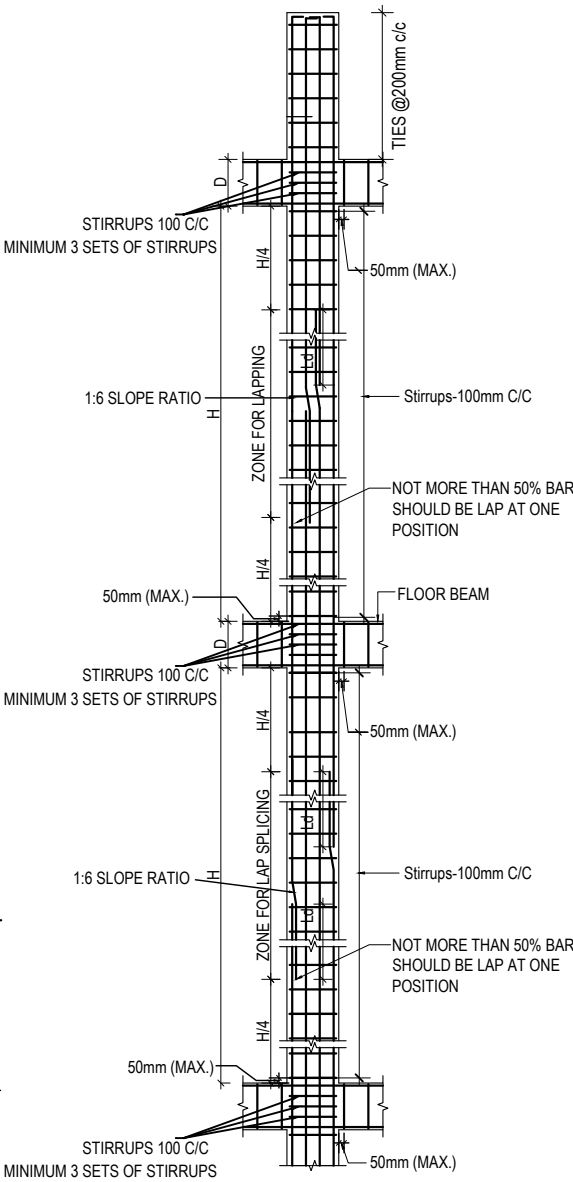
ANCHORAGE OF BEAM
LONGITUDINAL BAR IN COLUMN



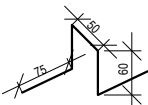
PPROVISION OF BEAM STUB

f_y N/mm ²	f_{ck} N/mm ²	d_b mm	L_{dh} mm	$12d_b$ mm
500	20	12	277	144
500	25	12	248	144
500	20	16	369	192
500	25	16	330	192
500	20	20	462	240
500	25	20	413	240
500	20	25	577	300
500	25	25	516	300

f_y = yield strength of steel
 f_{ck} = Characteristic Compressive strength of concrete
 d_b = diameter of largest longitudinal bar in beam in mm



TYP. COLUMN SHEAR
REINFORCEMENT DETAIL



CHAIR RESTING ON BOTTOM BARS
@600 - 900 mm staggered position

CLIENT



Government of Nepal
Ministry of Education, Science & Technology
Center for Education and Human Resource Development
Sanothimi, Bhaktapur, Nepal

PROJECT TITLE

Prepare School Building Type Design for
Model and Big School

SHEET TITLE

GENERAL NOTES

CONSULTANT

A.S.K. ENGINEERING CONSULTANCY PVT. LTD.
Nepal

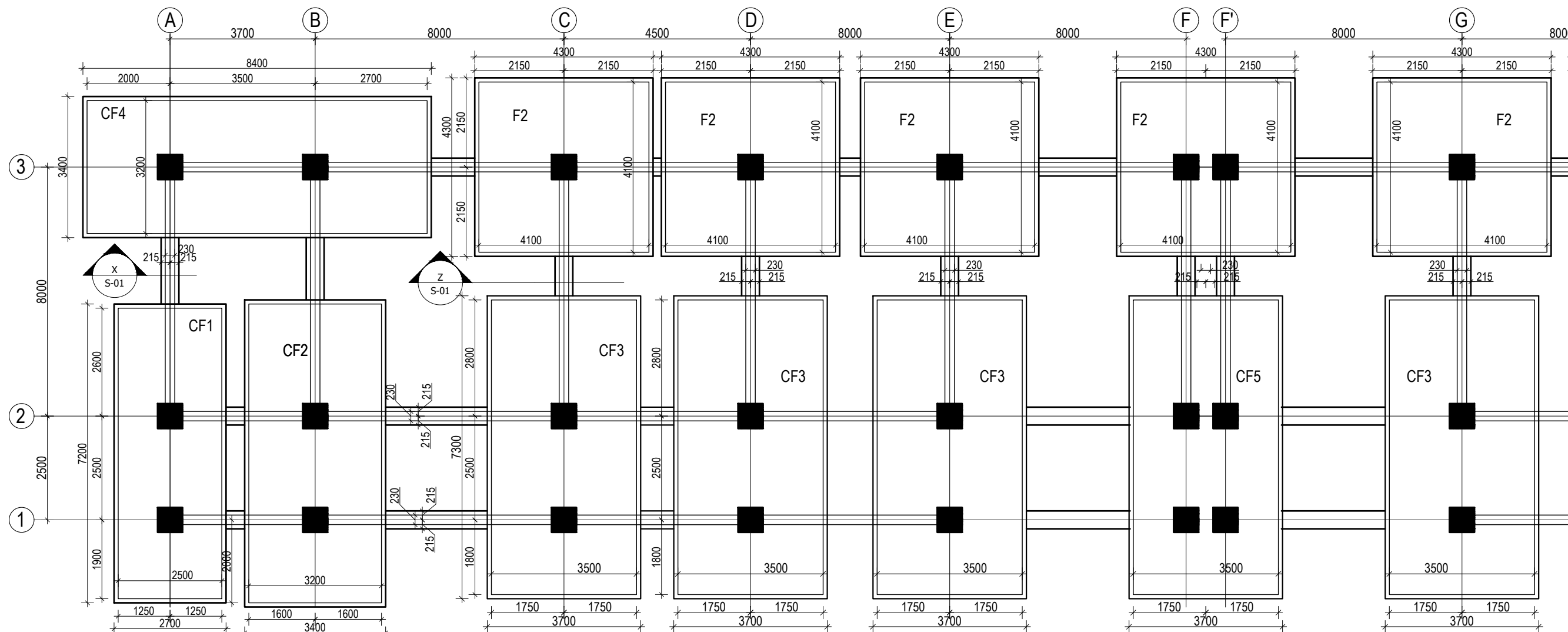
PLANNING DESIGN TEAM

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ARCHITECT: _____
DRAWN: _____
SCALE: 1:120
PAPER SIZE: A3
STRUCTURE ER: _____
CHECKED: _____
APPROVED: _____
DATE: FEBRUARY, 2023

SHEET NO.

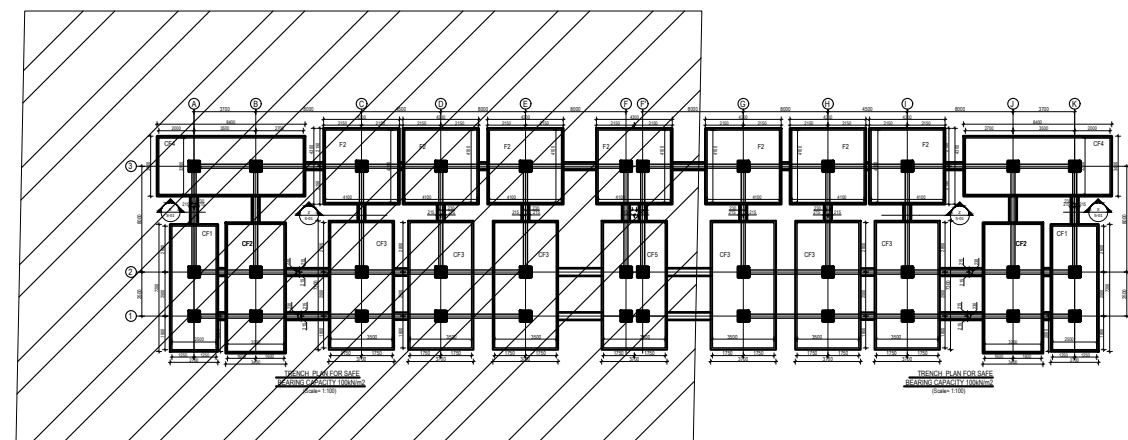
REVISION NO.
R-00


DWG CODE.
3S18R - BIG & MODEL

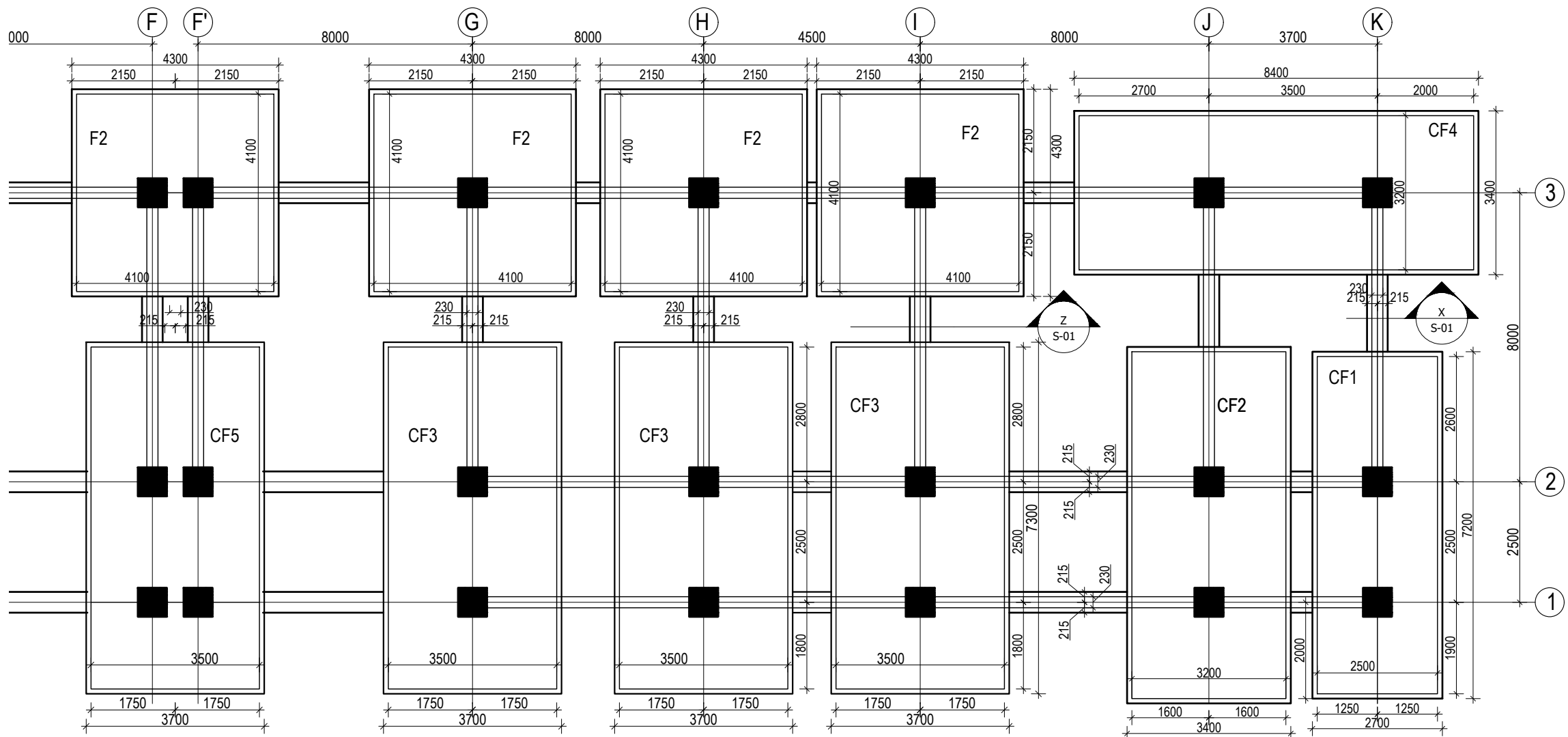


TRENCH PLAN FOR SAFE
BEARING CAPACITY 100kN/m²
(Scale= 1:100)

KEY PLAN

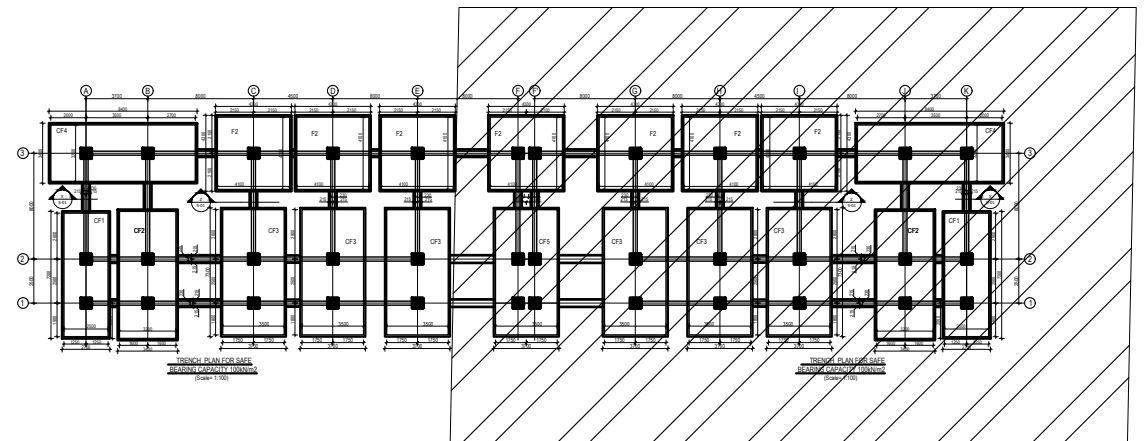



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	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Model and Big School	TRENCH DETAIL FOR S.B.C 100kN/m2	A.S.K. ENGINEERING CONSULTANCY PVT. LTD. Nepal	ENGINEER:		ST-01	R-00
					ARCHITECT:		DWG CODE. 3S18R - BIG & MODEL	
					DRAWN :			
					SCALE : 1:120	PAPER SIZE : A3	APPROVED:	
				DATE: FEBRUARY, 2023				

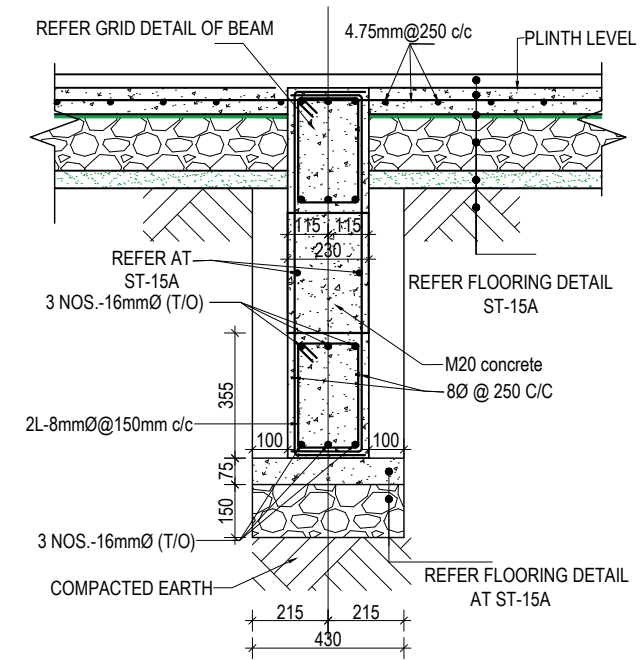


TRENCH PLAN FOR SAFE
BEARING CAPACITY 100kN/m²
(Scale= 1:100)

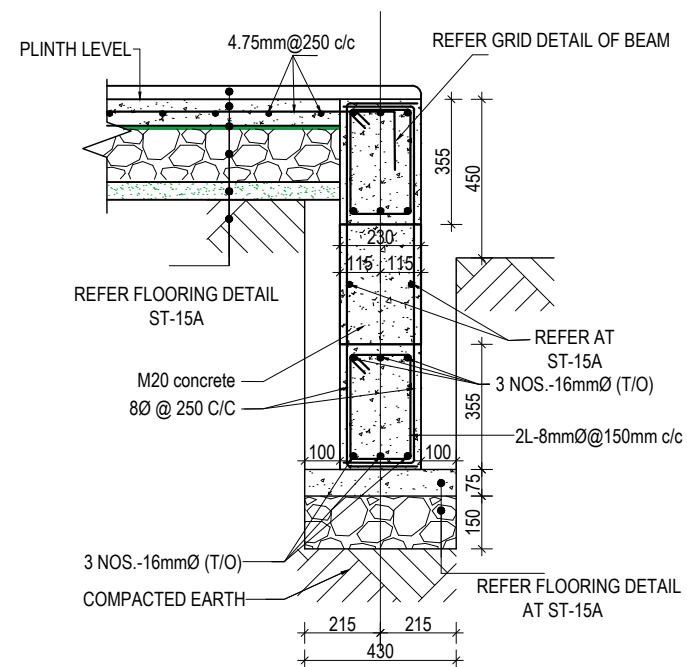
KEY PLAN




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	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Model and Big School	TRENCH DETAIL FOR S.B.C 100kN/m2	A.S.K. ENGINEERING CONSULTANCY PVT. LTD. Nepal	ENGINEER:	STRUCTURE ER. :	ST-02	R-00
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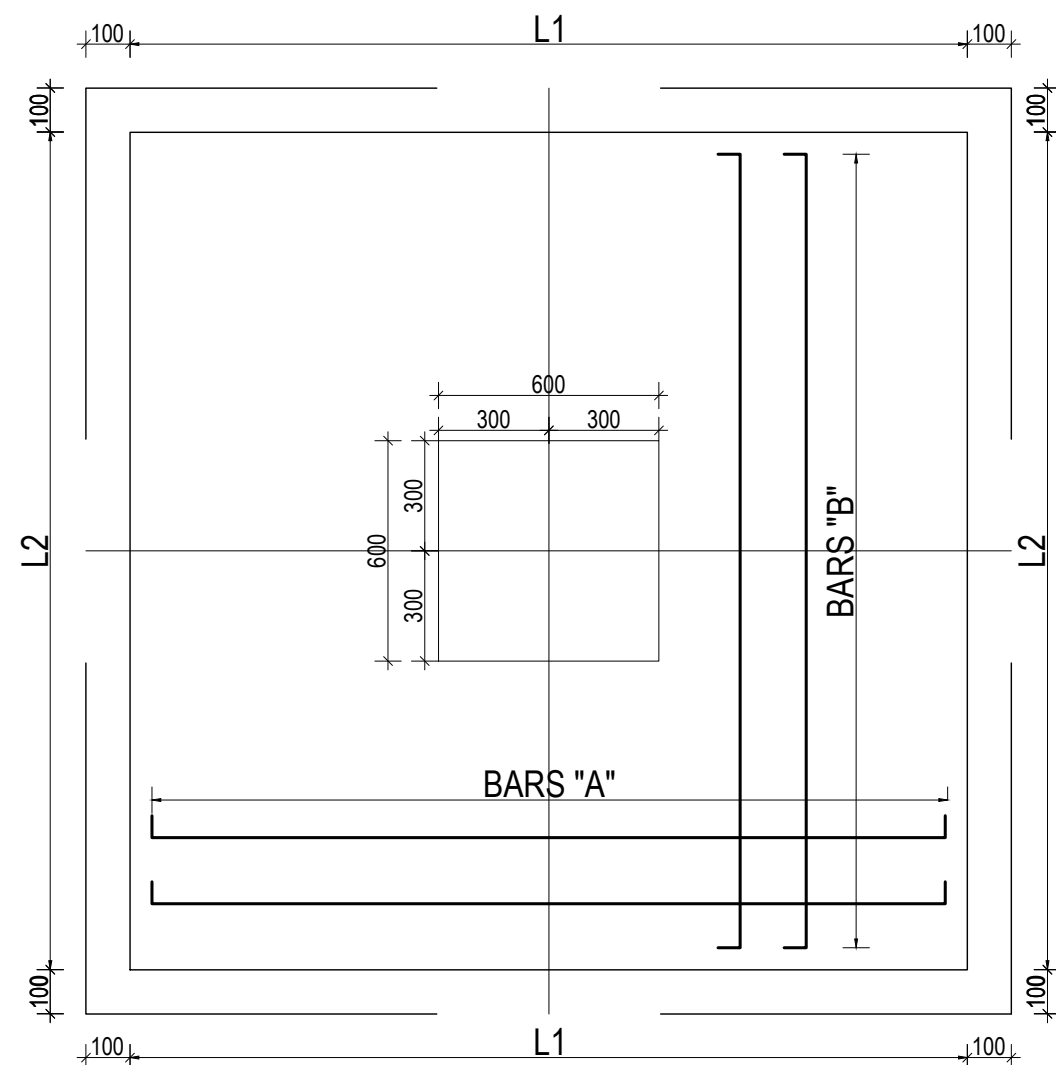


SECTION AT Z-Z
(Scale= 1:20)

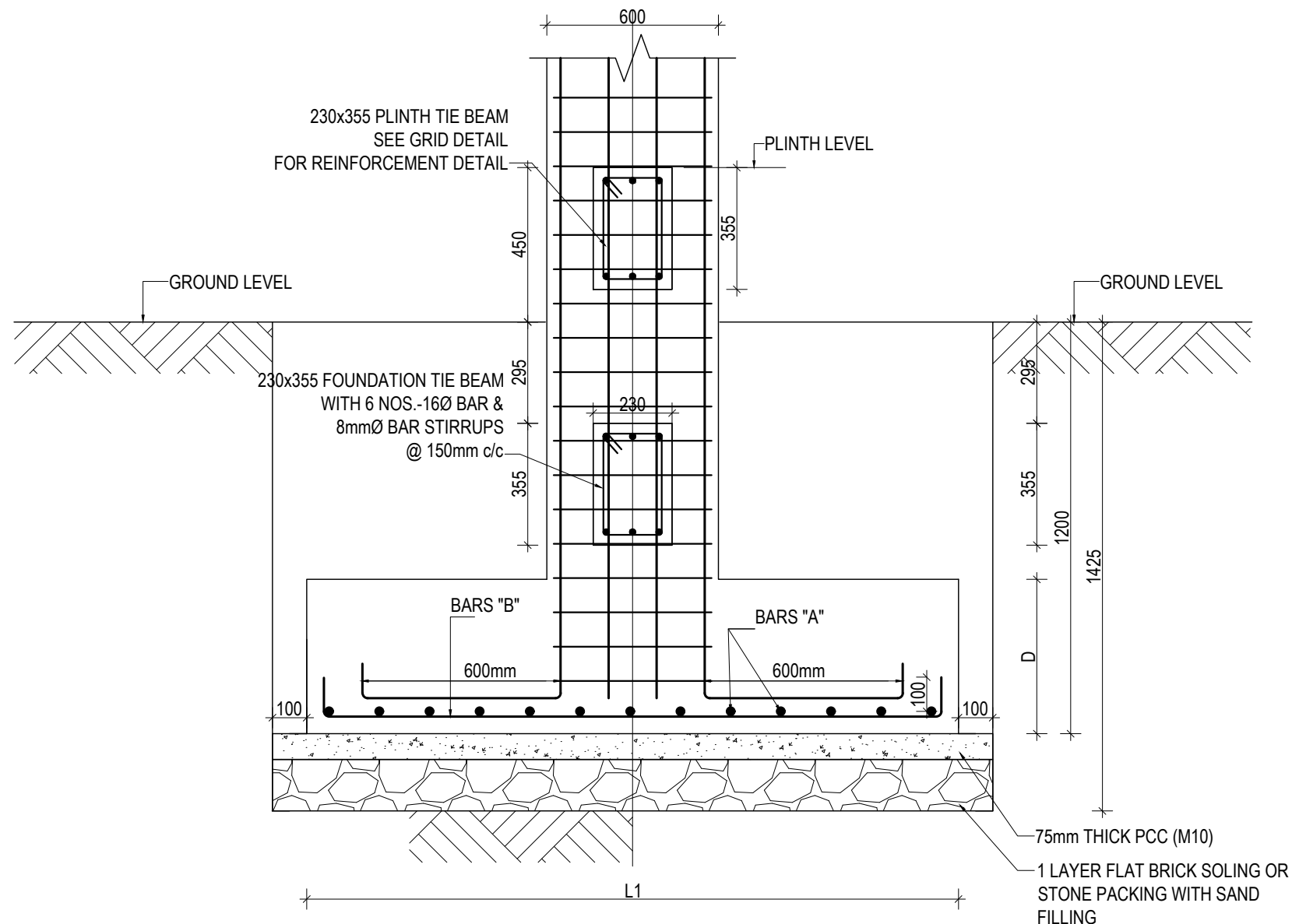


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CLIENT		PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM		SHEET NO. ST-03	REVISION NO. R-00
	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Model and Big School	TRENCH DETAIL FOR S.B.C 100kN/m2	A.S.K. ENGINEERING CONSULTANCY PVT. LTD. Nepal	ENGINEER:		STRUCTURE ER. :	
					ARCHITECT:		CHECKED:	
					DRAWN :		APPROVED:	
					SCALE : 1:120	PAPER SIZE : A3	DATE: FEBRUARY, 2023	
							DWG CODE. 3S18R - BIG & MODEL	



TYPICAL ISOLATED FOOTING PLAN

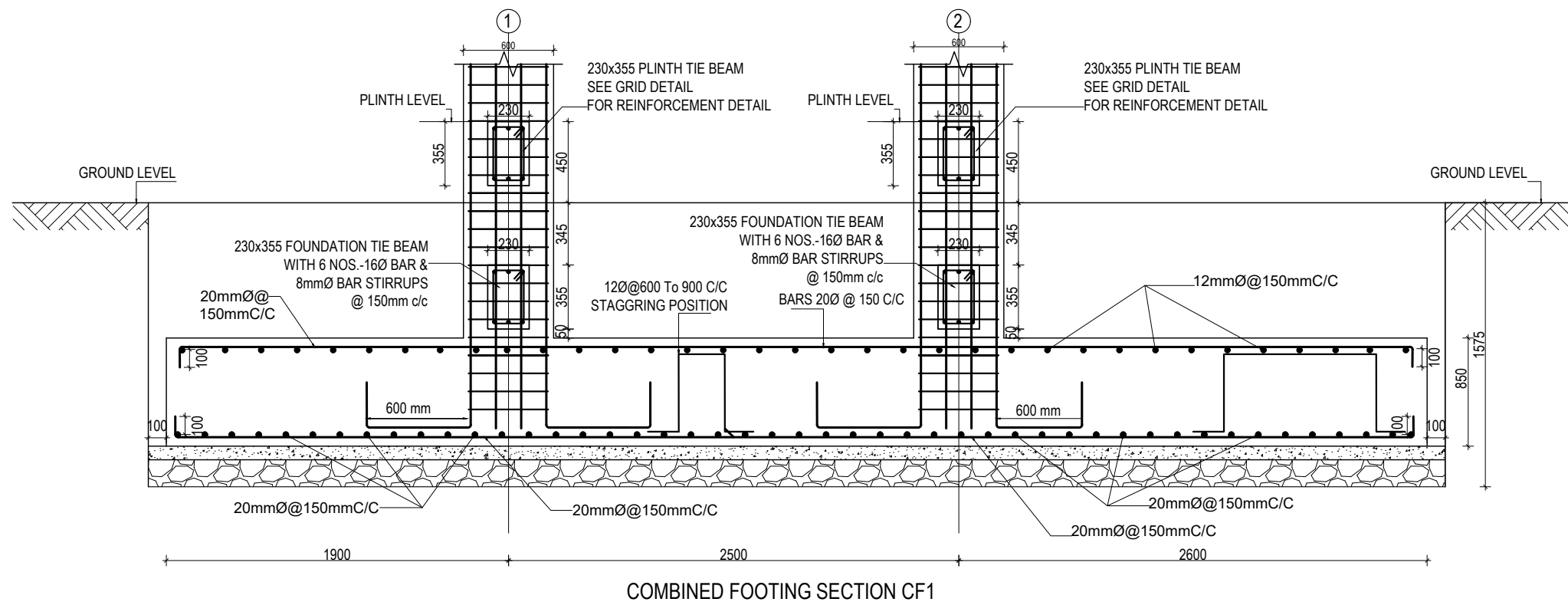
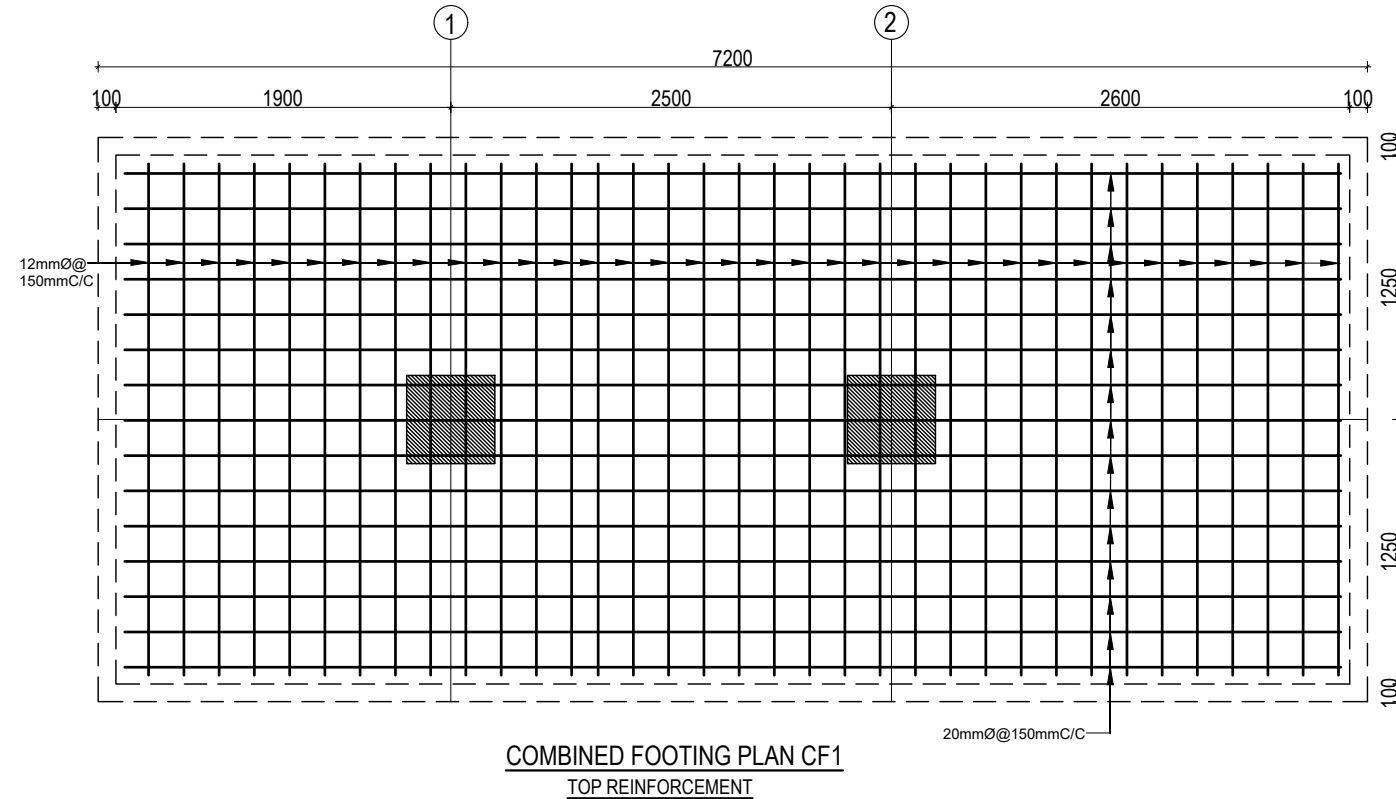
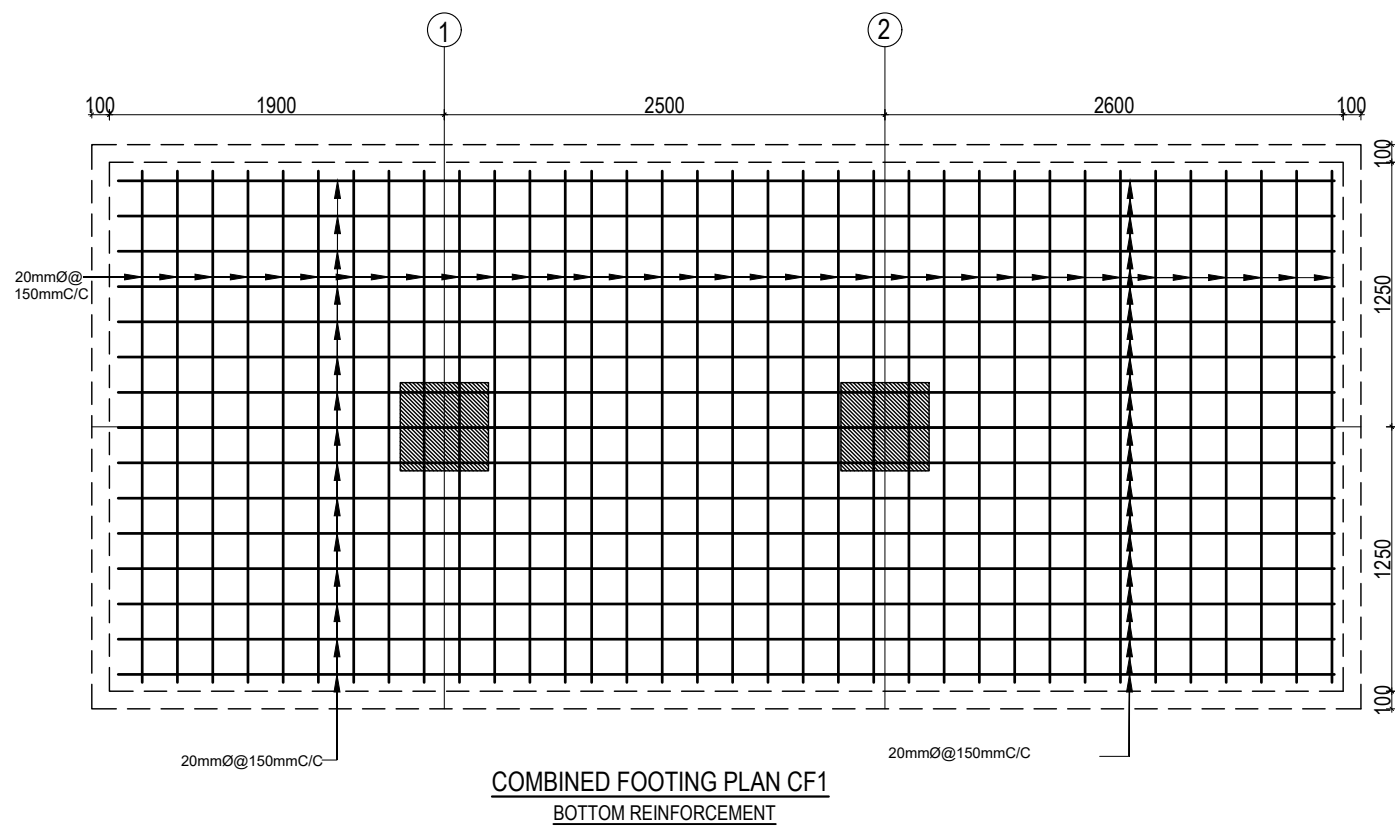


TYPICAL ISOLATED FOOTING SECTION

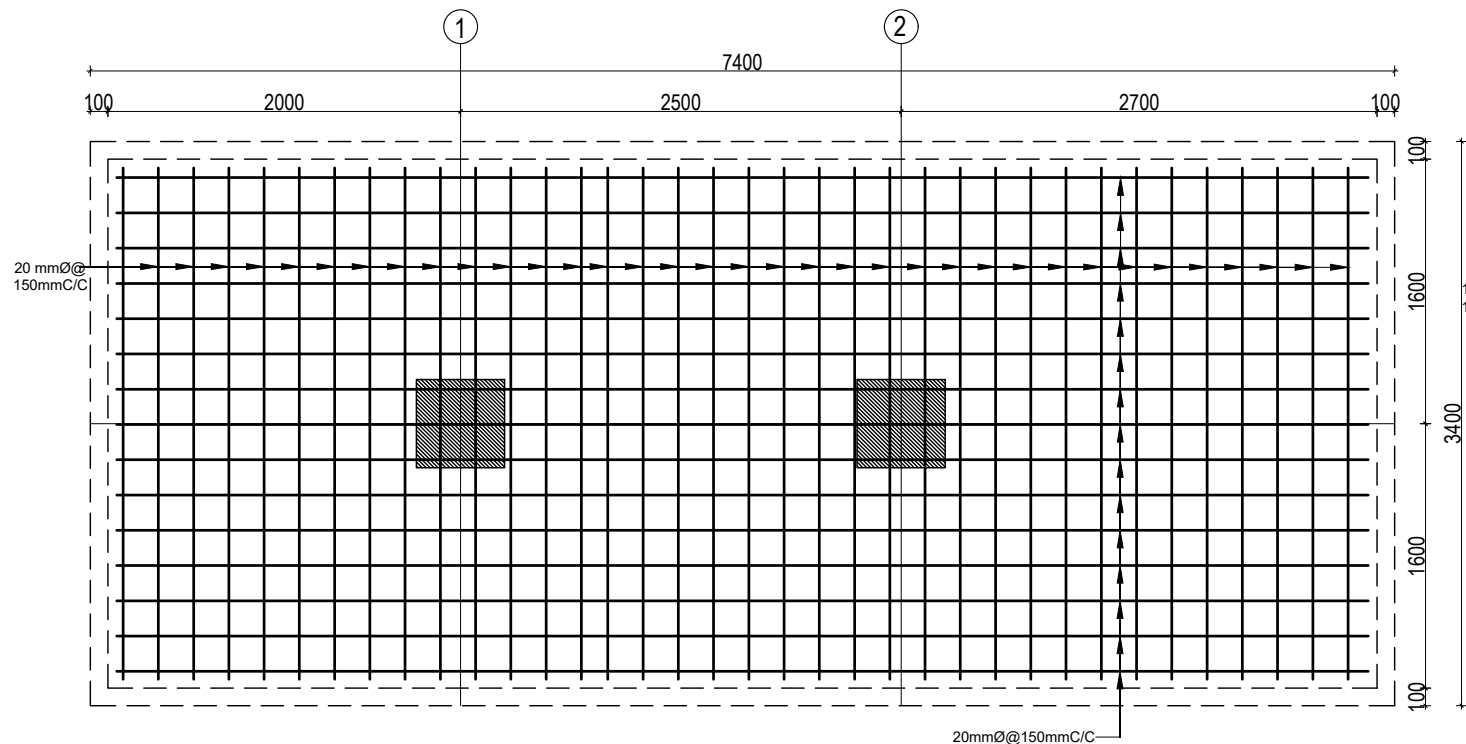
ISOLATED FOOTING SCHEDULE FOR S.B.C 100 kN/m²

FOOTING ID	L1	L2	DEPTH (D)	REINFORCEMENT DETAILS	
				BARS "A"	BARS "B"
F1	3700	3700	600	16Ø @ 150 C/C	16Ø @ 150 C/C
F2	4100	4100	750	16Ø @ 150 C/C	16Ø @ 150 C/C

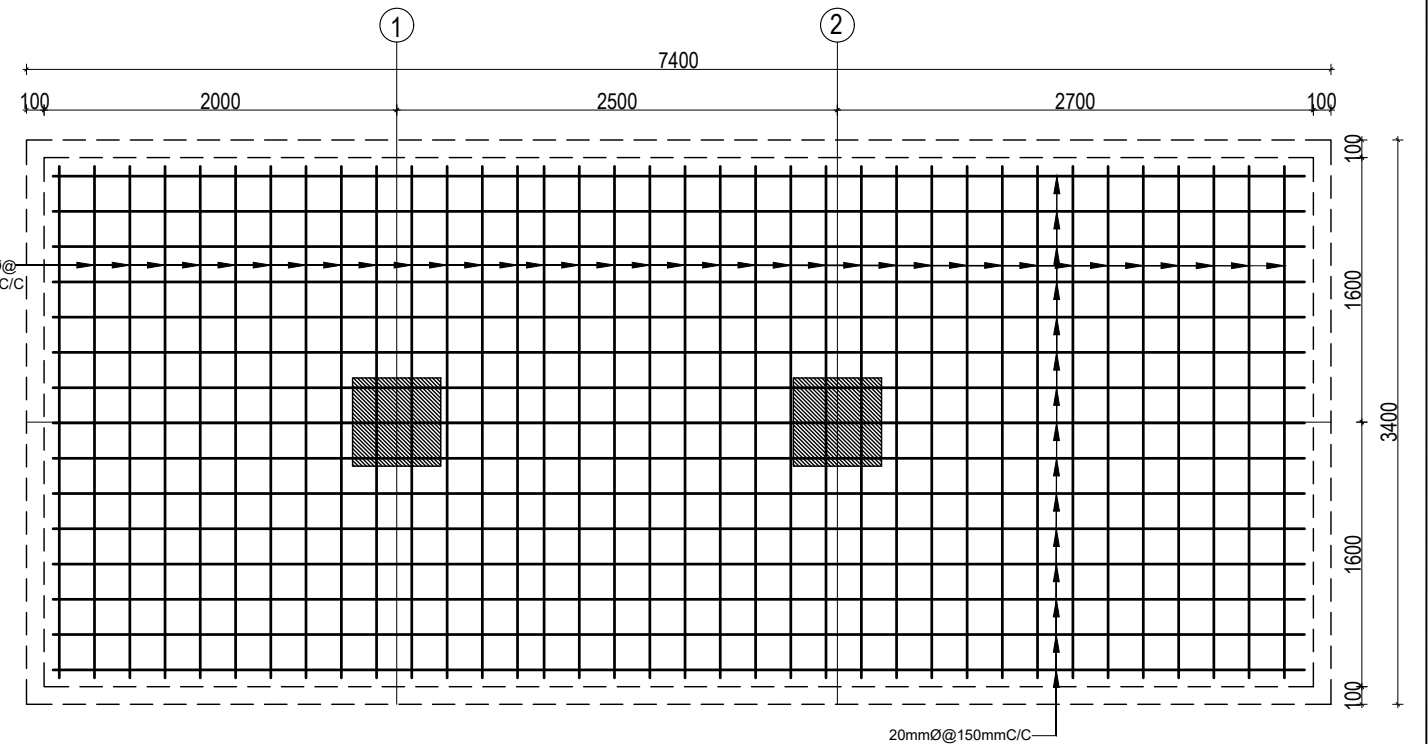
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Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Model and Big School	FOOTING DETAIL FOR S.B.C 100kN/m ²	A.S.K. ENGINEERING CONSULTANCY PVT. LTD. Nepal	ENGINEER:	STRUCTURE ER. :	ST-04	R-00
				ARCHITECT:	CHECKED:	DWG CODE. 3S18R - BIG & MODEL	
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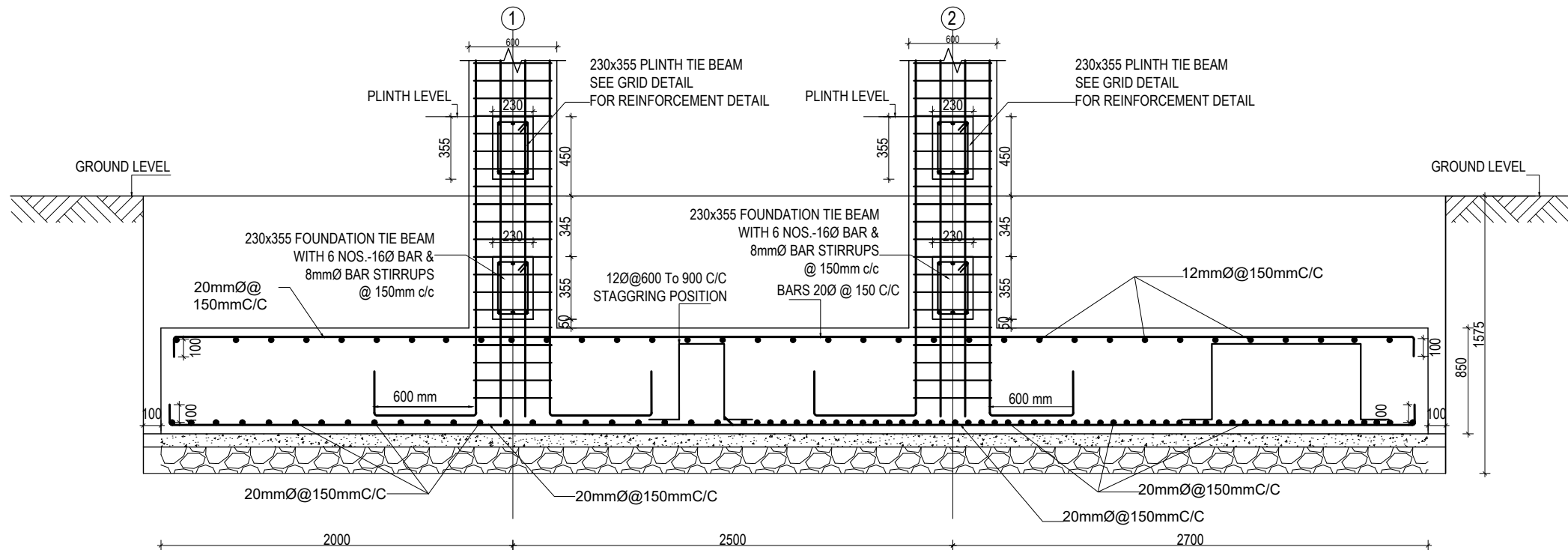
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Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Model and Big School	FOOTING DETAIL FOR S.B.C 100kN/m ²	A.S.K. ENGINEERING CONSULTANCY PVT. LTD. Nepal	ENGINEER:	STRUCTURE ER. :	ST-05	R-00
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				DRAWN :	APPROVED:		
				SCALE : 1:120	PAPER SIZE : A3	DATE: FEBRUARY, 2023	




COMBINED FOOTING PLAN CF2
BOTTOM REINFORCEMENT




COMBINED FOOTING PLAN CF2
TOP REINFORCEMENT

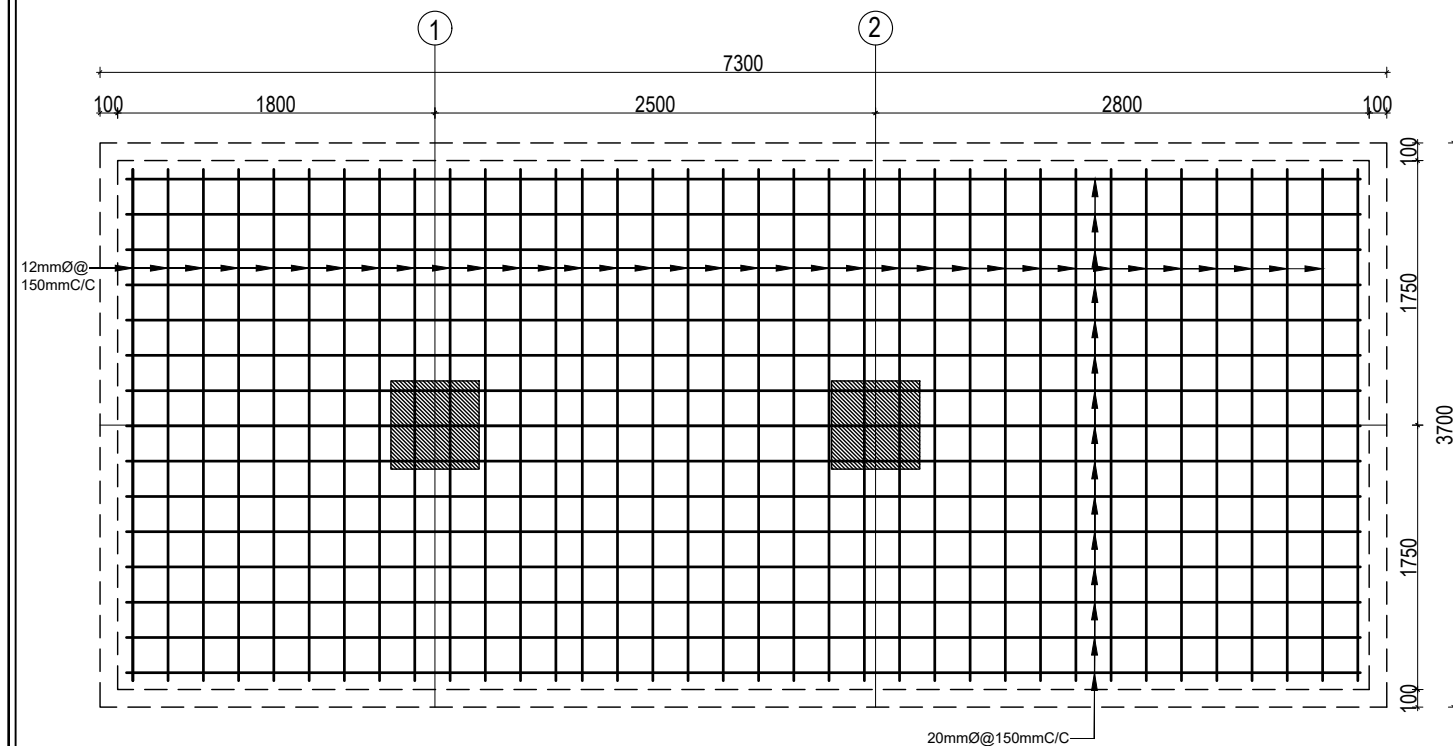


COMBINED FOOTING SECTION CF2

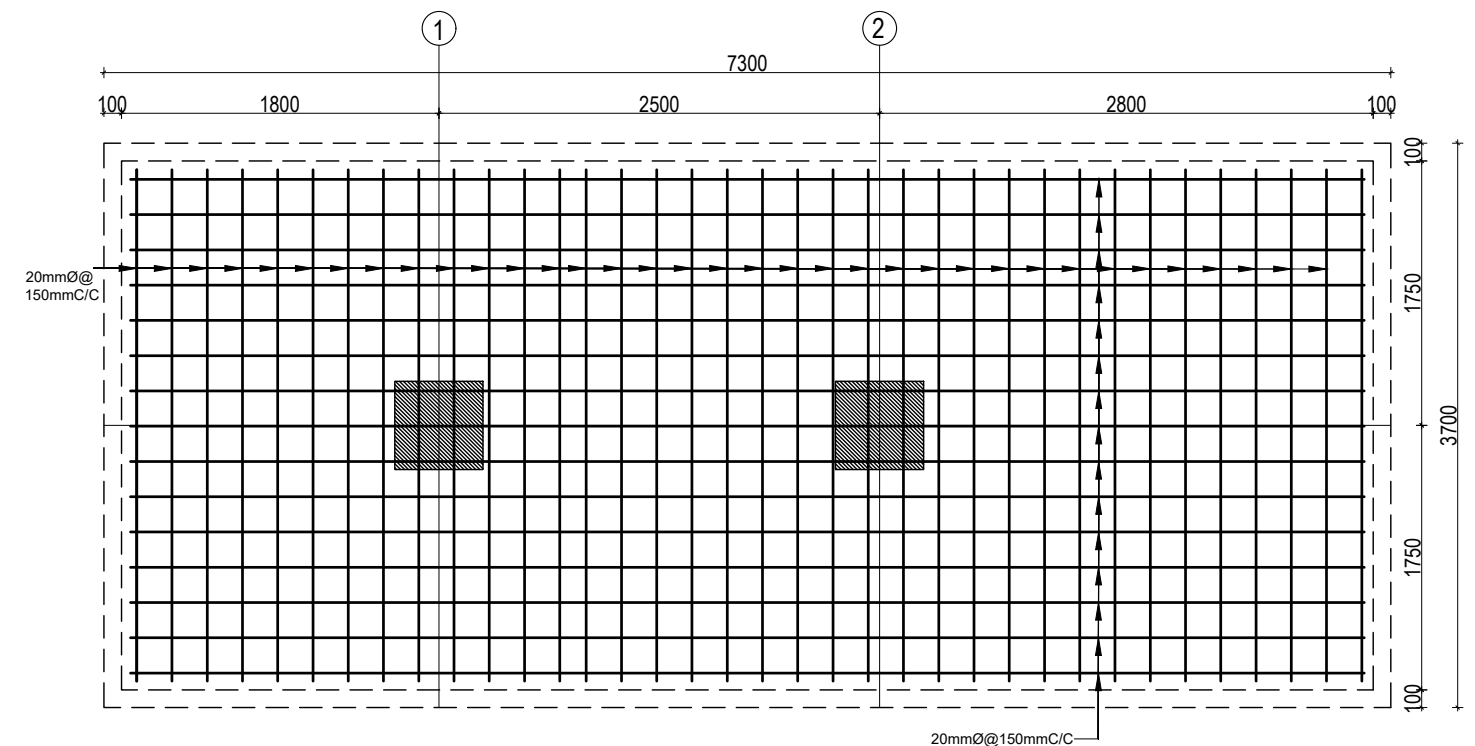
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	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Model and Big School	FOOTING DETAIL FOR S.B.C 100kN/m2	A.S.K. ENGINEERING CONSULTANCY PVT. LTD. Nepal	ENGINEER:		ST-06	R-00
					ARCHITECT:			
					DRAWN :			
					SCALE : 1:120	PAPER SIZE : A3		
					STRUCTURE ER. :		DWG CODE.	
					CHECKED:		3S18R - BIG & MODEL	
					APPROVED:			
					DATE: FEBRUARY, 2023			



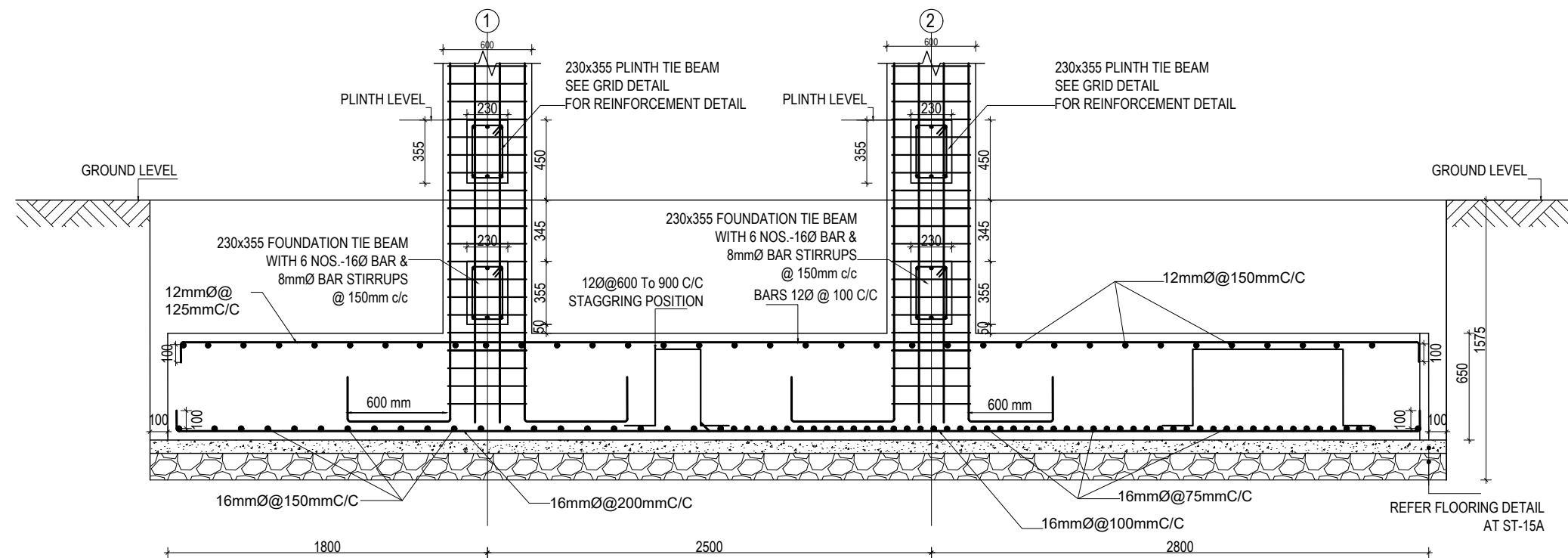
CLIENT		PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM		SHEET NO. ST-07	REVISION NO. R-00
	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Model and Big School	FOOTING DETAIL FOR S.B.C 100kN/m2	A.S.K. ENGINEERING CONSULTANCY PVT. LTD. Nepal	ENGINEER:		STRUCTURE ER. :	
					ARCHITECT:		CHECKED:	
					DRAWN :		APPROVED:	
					SCALE : 1:120	PAPER SIZE : A3	DATE: FEBRUARY, 2023	
DWG CODE. 3S18R - BIG & MODEL								




COMBINED FOOTING PLAN CF3
TOP REINFORCEMENT

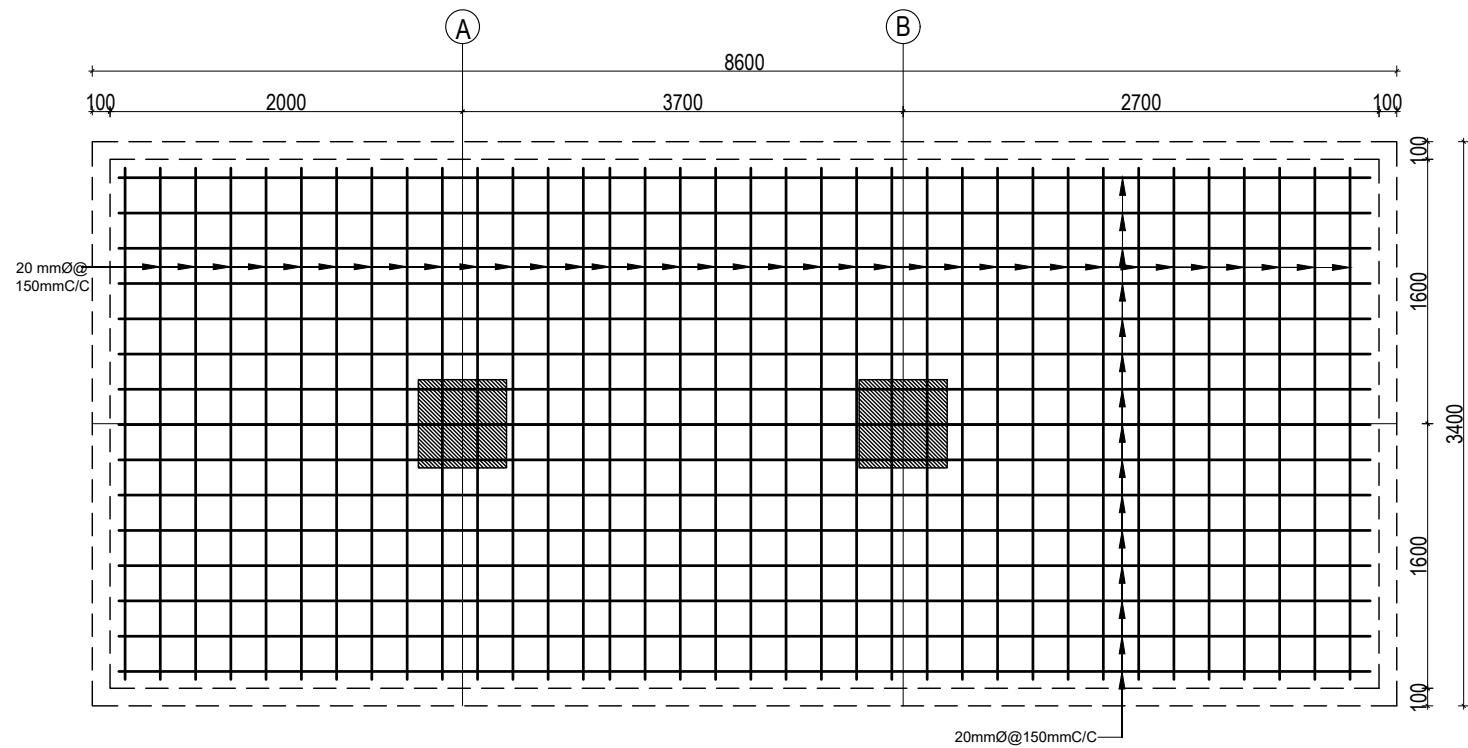


COMBINED FOOTING PLAN CF3
BOTTOM REINFORCEMENT

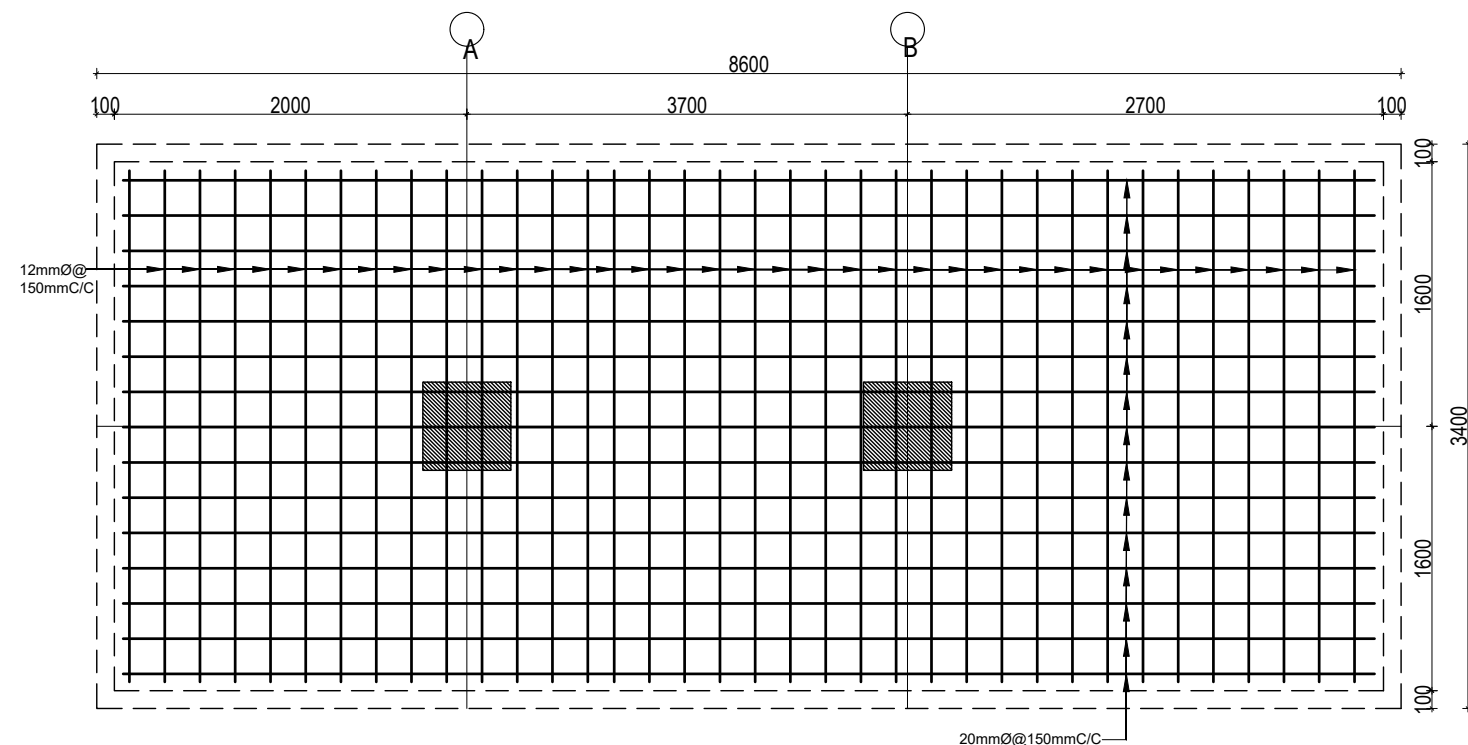


COMBINED FOOTING SECTION CF3

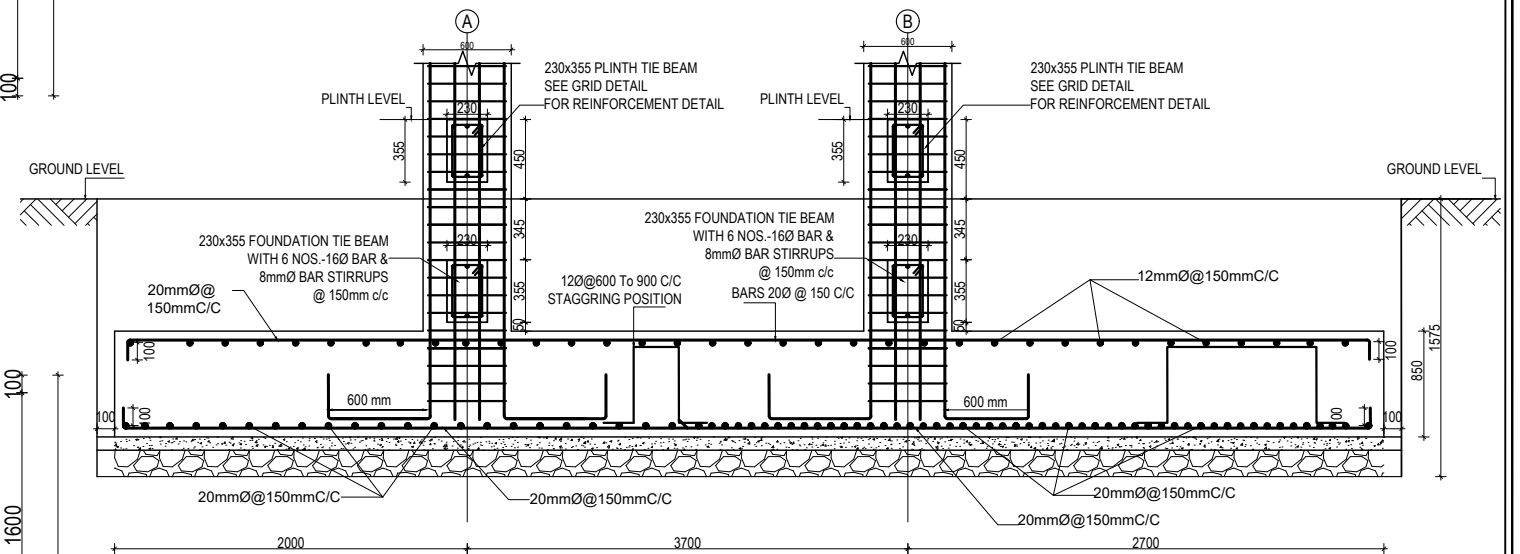
CLIENT		PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM		SHEET NO.	REVISION NO.
	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Model and Big School	FOOTING DETAIL FOR S.B.C 100kN/m2	A.S.K. ENGINEERING CONSULTANCY PVT. LTD. Nepal	ENGINEER:		ST-08	R-00
					ARCHITECT:			
					DRAWN :		DWG CODE. 3S18R - BIG & MODEL	
					SCALE : 1:120	PAPER SIZE : A3		
					APPROVED:			
					DATE: FEBRUARY, 2023			




COMBINED FOOTING PLAN CF4
BOTTOM REINFORCEMENT

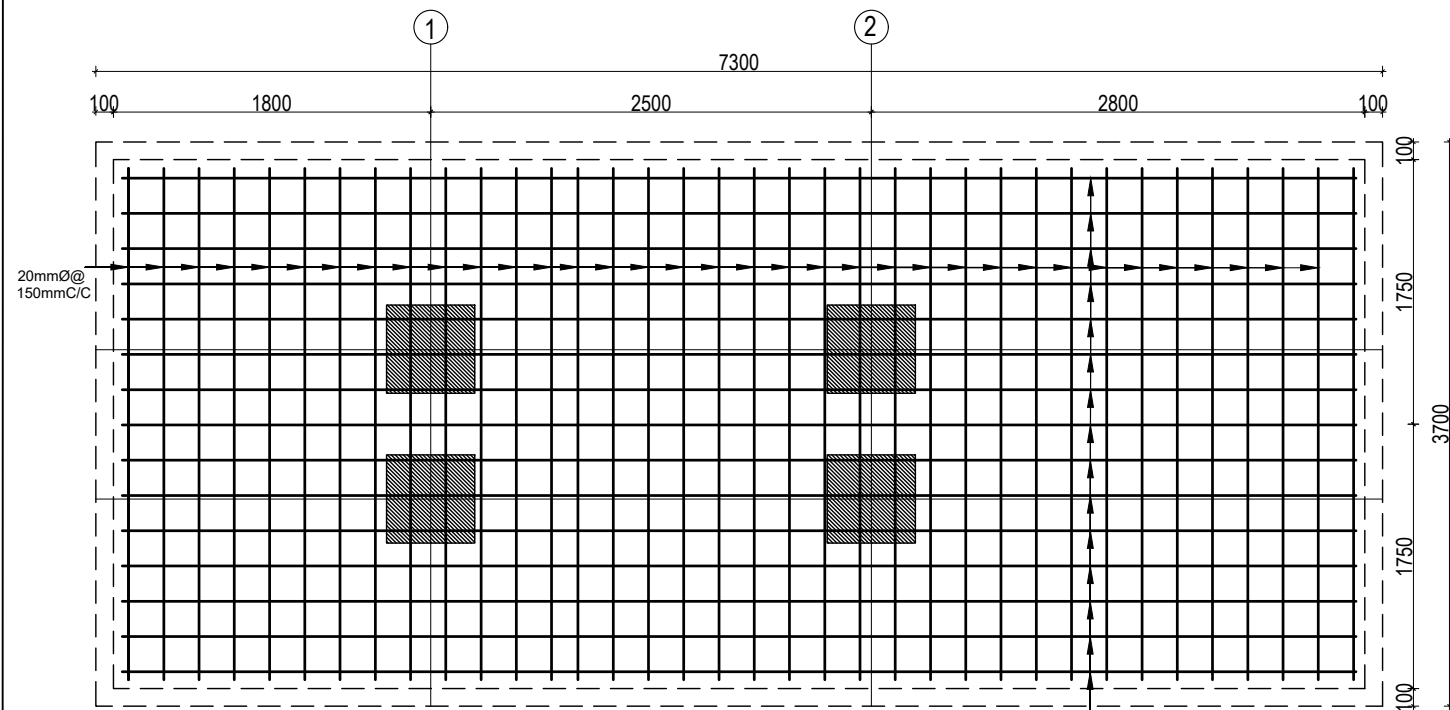


COMBINED FOOTING PLAN CF4

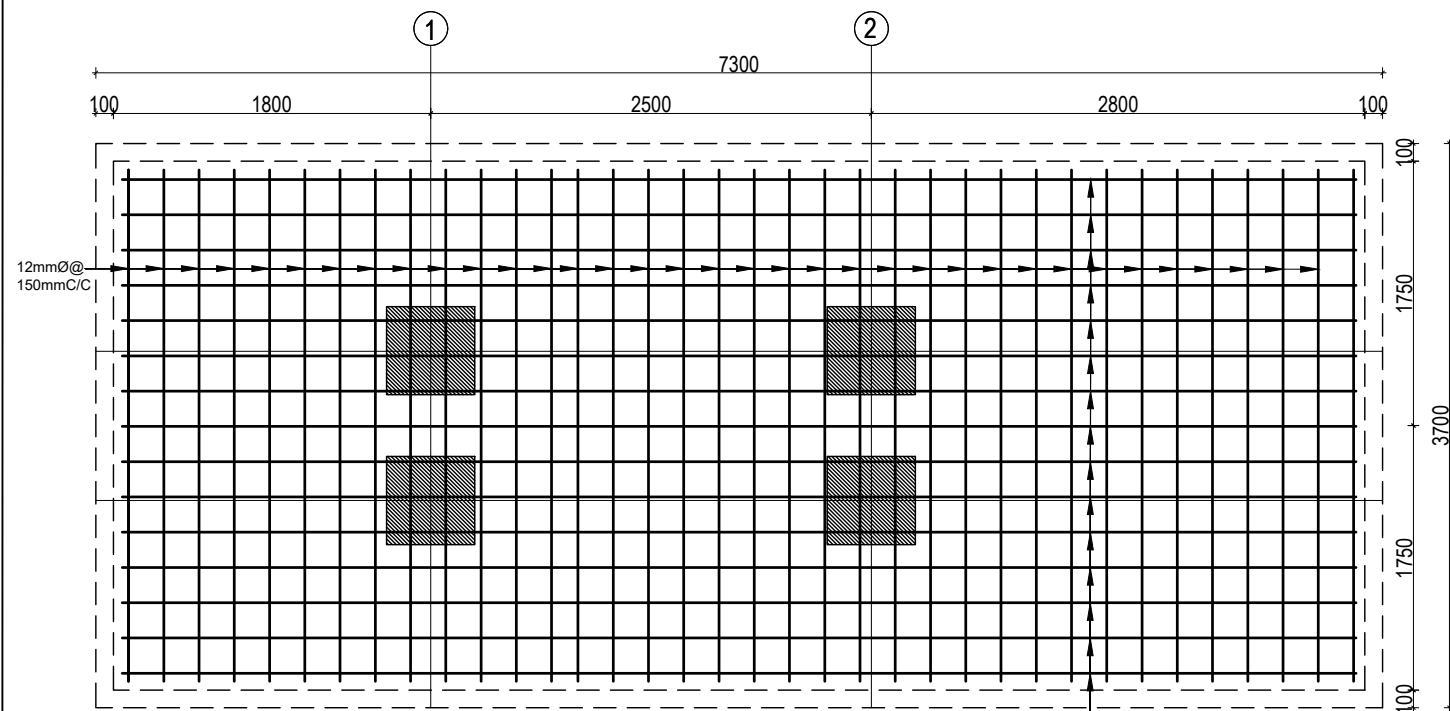


COMBINED FOOTING SECTION CF4

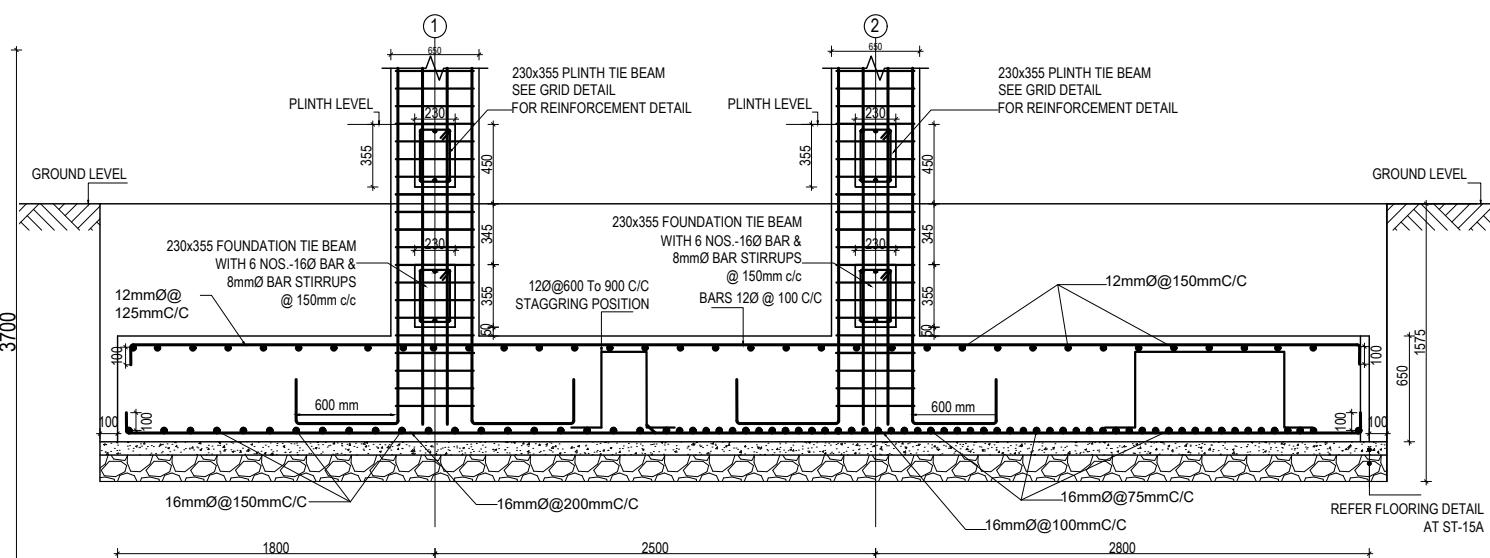
CLIENT		PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM		SHEET NO.	REVISION NO.	
	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Model and Big School	FOOTING DETAIL FOR S.B.C 100kN/m2	A.S.K. ENGINEERING CONSULTANCY PVT. LTD. Nepal	ENGINEER:		ST-09	R-00	
					STRUCTURE ER. :				
					ARCHITECT:		CHECKED:		DWG CODE. 3S18R - BIG & MODEL
					DRAWN :		APPROVED:		
					SCALE : 1:120	PAPER SIZE : A3	DATE: FEBRUARY, 2023		



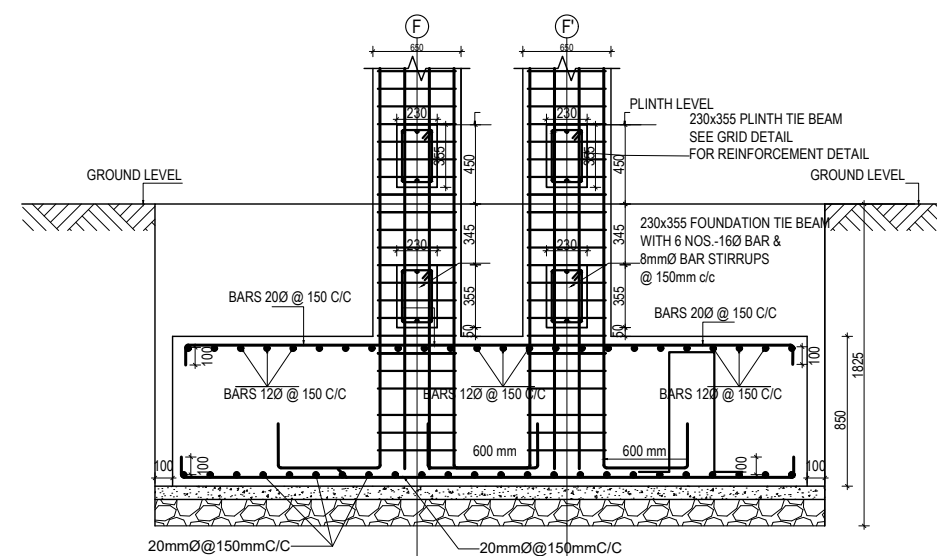
COMBINED FOOTING PLAN CF5
BOTTOM REINFORCEMENT



COMBINED FOOTING PLAN CF5
TOP REINFORCEMENT

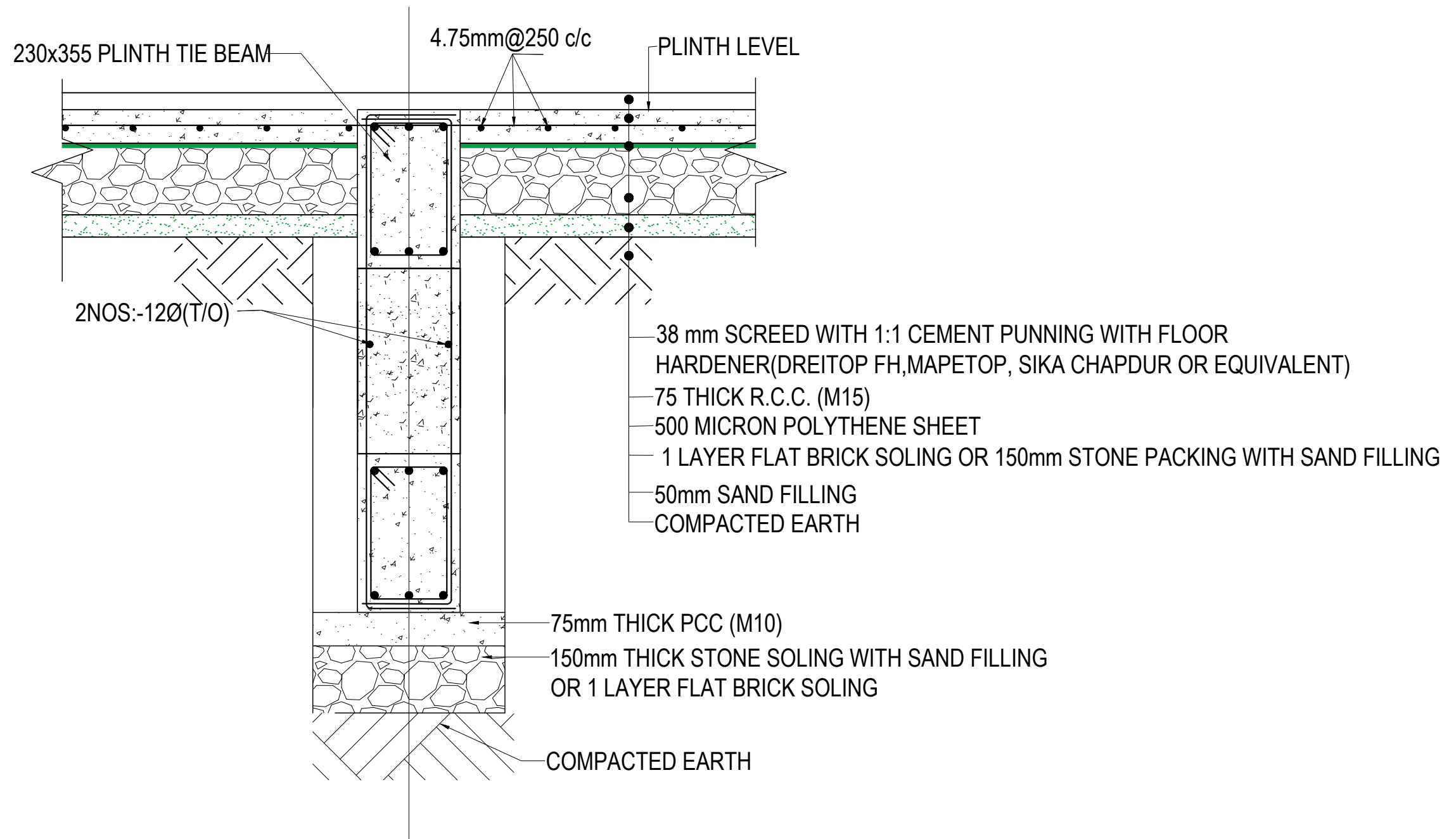


COMBINED FOOTING SECTION CF5 [L-SECTION]




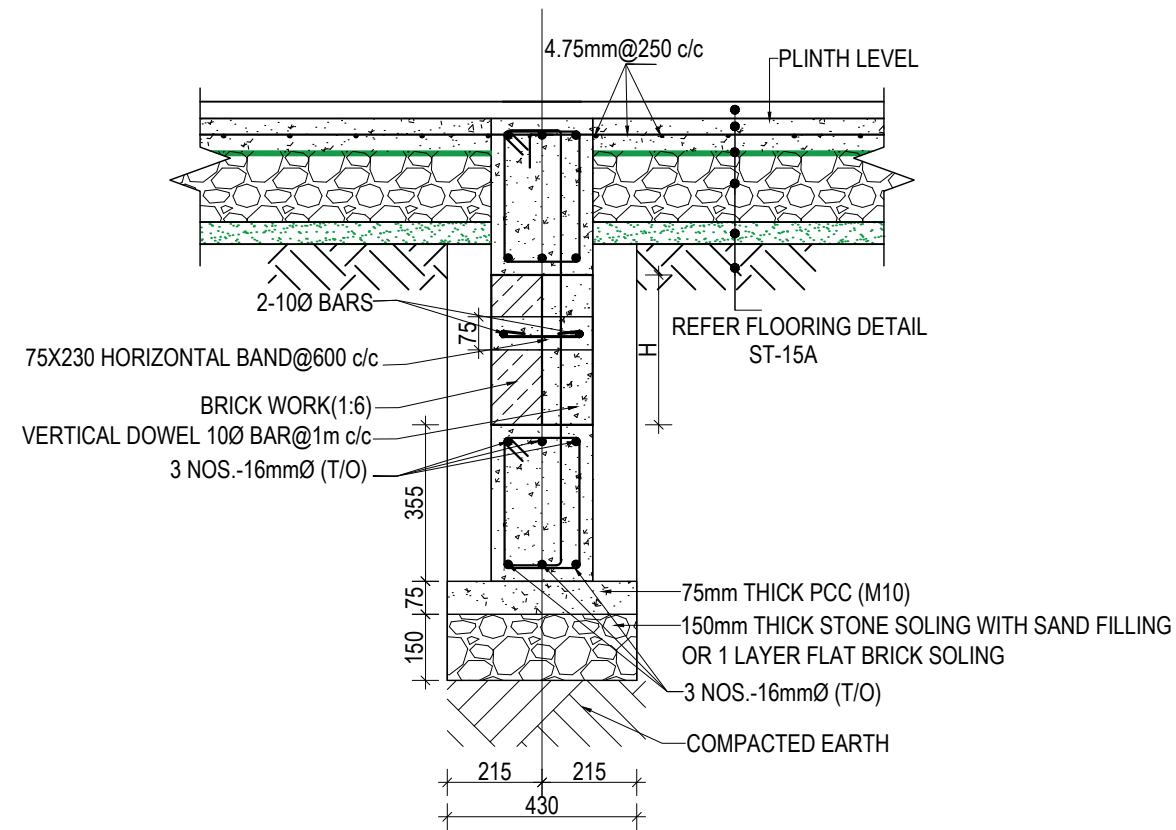
COMBINED FOOTING SECTION CF5 [X-SECTION]

CLIENT	PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM		SHEET NO.	REVISION NO.
Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Model and Big School	FOOTING DETAIL FOR S.B.C 100kN/m ²	A.S.K. ENGINEERING CONSULTANCY PVT. LTD. Nepal	ENGINEER:	STRUCTURE ER. :	ST-10	R-00
				ARCHITECT:	CHECKED:	DWG CODE. 3S18R - BIG & MODEL	
				DRAWN :	APPROVED:		
				SCALE : 1:120	PAPER SIZE : A3	DATE: FEBRUARY, 2023	



TYPICAL FLOORING DETAIL FF1
(Scale= 1:10)

CLIENT		PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM		SHEET NO.	REVISION NO.
	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Model and Big School	TYPICAL FLOORING DETAIL	A.S.K. ENGINEERING CONSULTANCY PVT. LTD. Nepal	ENGINEER:		ST-11	R-00
					ARCHITECT:		DWG CODE. 3S18R - BIG & MODEL	
					DRAWN :			
					SCALE : 1:120	PAPER SIZE : A3		
					DATE: FEBRUARY, 2023			



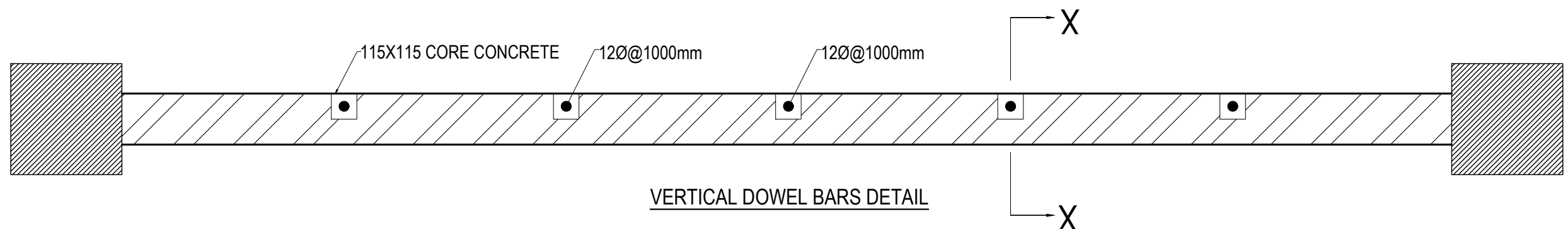
WALL DETAIL FOR DEPTH OF FOOTING MORE THAN 1500 mm

SECTION AT X-X


NOTES:-

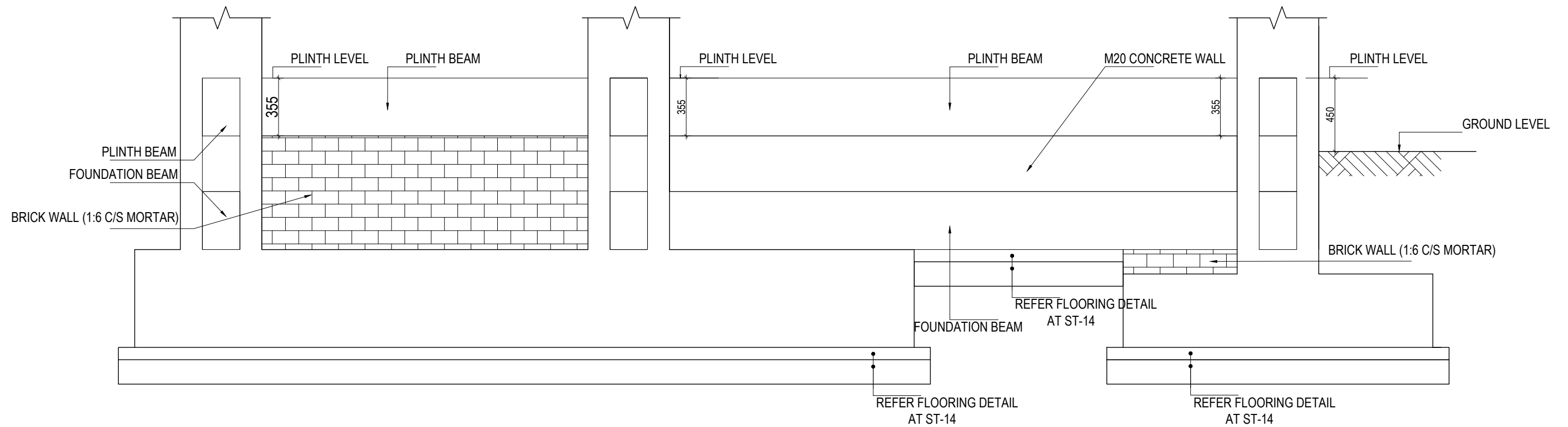
1) BRICK WALL IS USED IF WALL IS CONFINED BY SOIL ON BOTH SIDES

2) IF THE HEIGHT OF THE BRICK WALL EXCEEDS 1800 mm ADDITIONAL BEAM SHALL BE PROVIDED OF SAME SIZE OF FOUNDATION BEAM (SAME REINFORCEMENT TO BE USED)




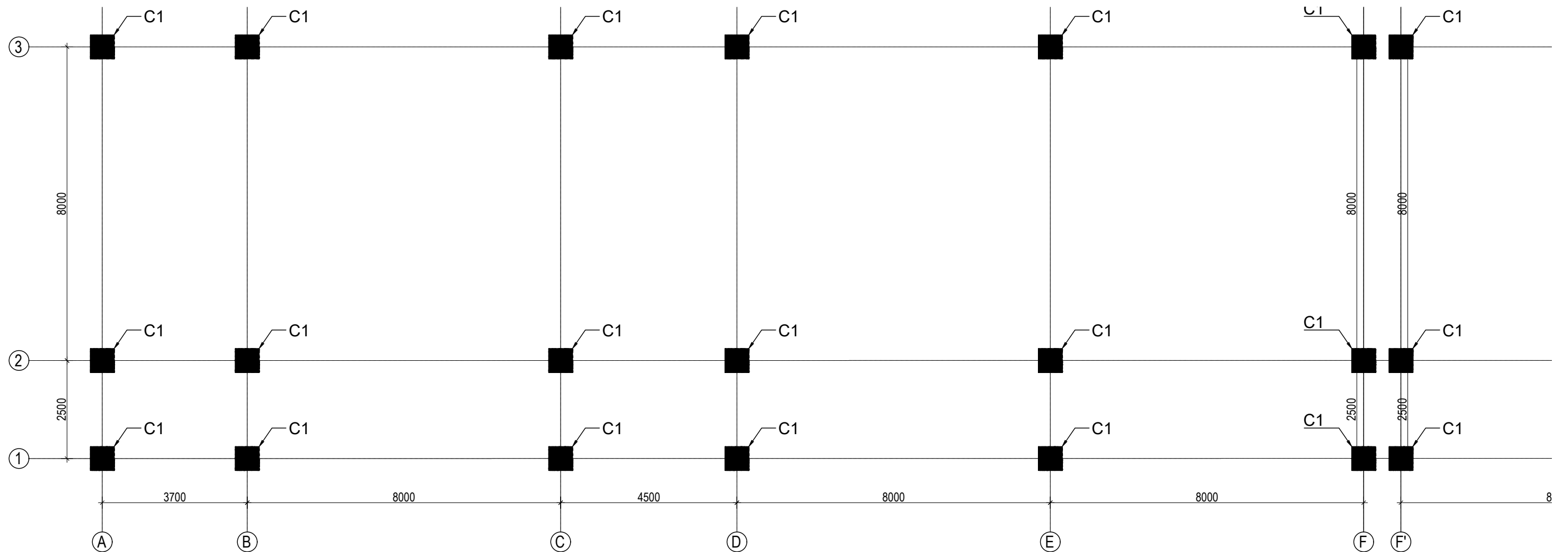
VERTICAL DOWEL BARS DETAIL

CLIENT		PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM		SHEET NO.	REVISION NO.
	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Model and Big School	SITE SPECIFIC DRAWING	A.S.K. ENGINEERING CONSULTANCY PVT. LTD. Nepal	ENGINEER:	STRUCTURE ER. :	ST-12	R-00
					ARCHITECT:	CHECKED:		
					DRAWN :	APPROVED:	DWG CODE. 3S18R - BIG & MODEL	
					SCALE : 1:120	PAPER SIZE : A3		
					DATE: FEBRUARY, 2023			



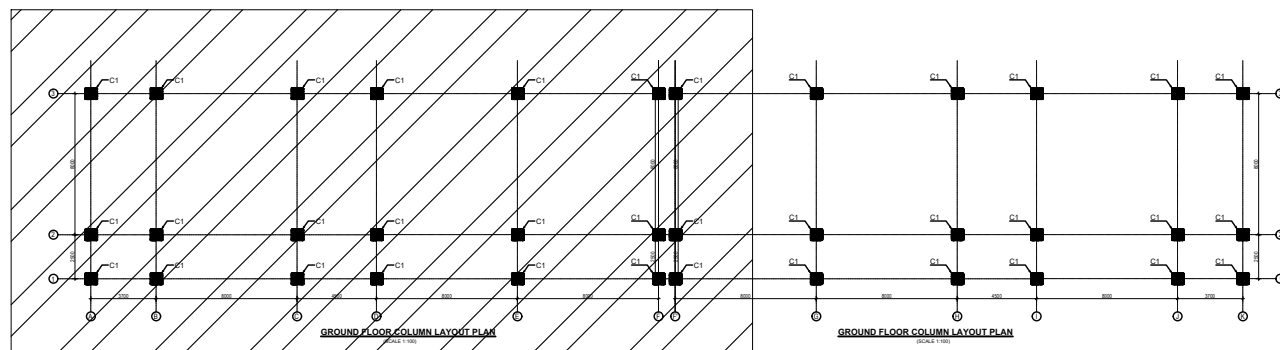
TYPICAL DETAIL OF FOUNDATION WALL

CLIENT		PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM		SHEET NO.	REVISION NO.	
	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Model and Big School	TYPICAL DETAIL OF FOUNDATION WALL	A.S.K. ENGINEERING CONSULTANCY PVT. LTD. Nepal	ENGINEER:		ST-13	R-00	
					STRUCTURE ER. :				
					ARCHITECT:		CHECKED:		
					DRAWN :		APPROVED:		
					SCALE : 1:120	PAPER SIZE : A3	DATE: FEBRUARY, 2023		
							DWG CODE. 3S18R - BIG & MODEL		

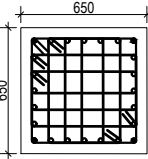
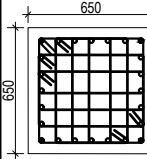
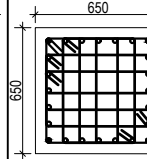
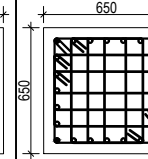
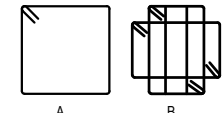



GROUND FLOOR COLUMN LAYOUT PLAN
(SCALE 1:100)

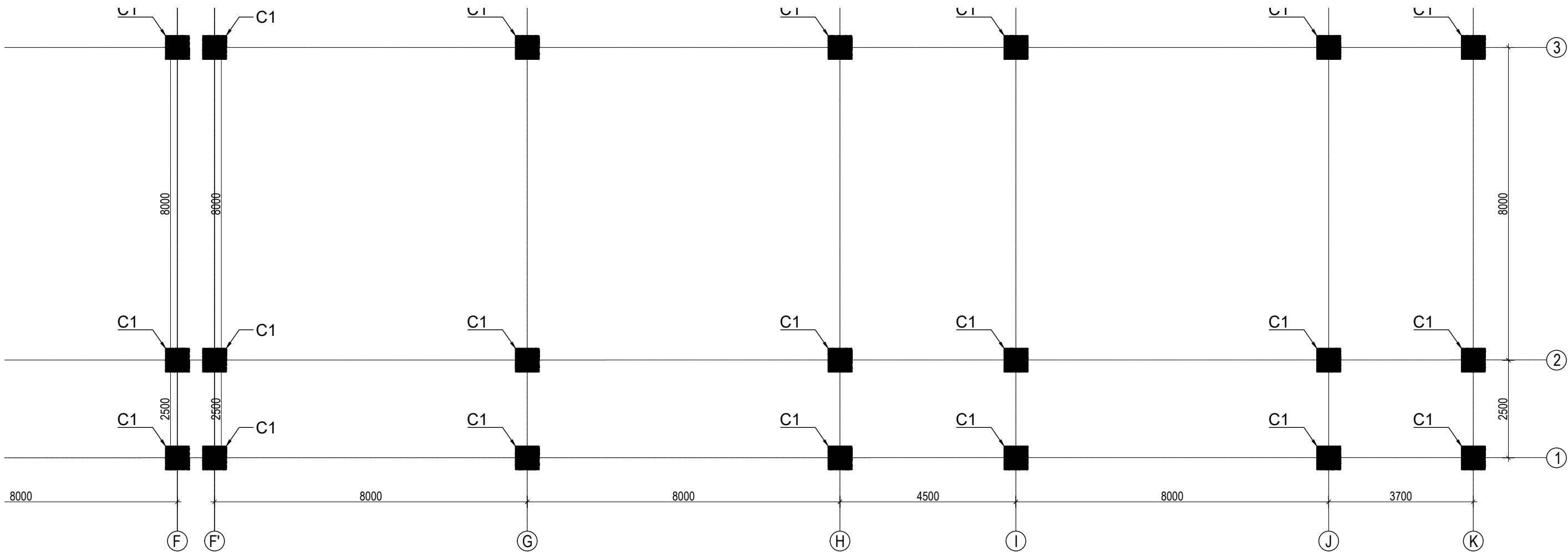
KEY PLAN



COLUMN REINFORCEMENT DETAILS

	COLUMN	COLUMN SIZE	FLOOR					TIE BAR ORIENTATION
			GROUND FLOOR	FIRST FLOOR	SECOND FLOOR	THIRD FLOOR	TOP FLOOR	
1	C1	650X650						 A: 100/100c/c & B: 80/100c/c

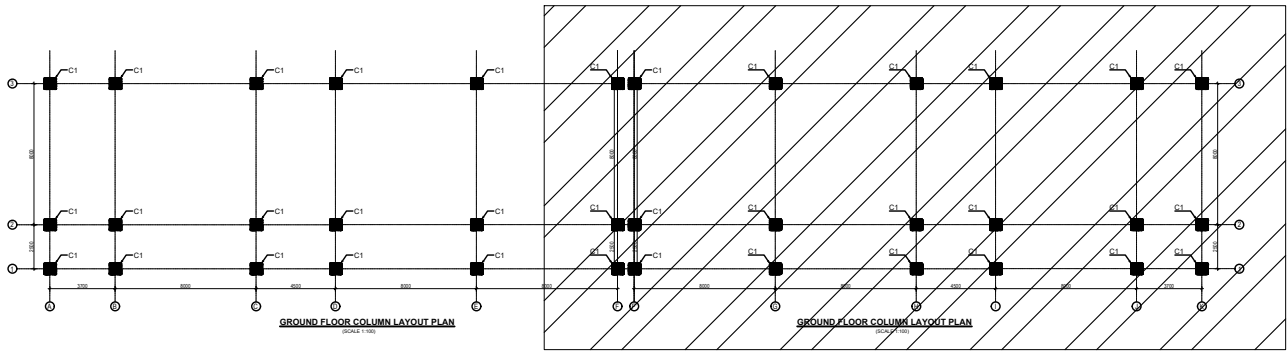
CLIENT		PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM		SHEET NO.	REVISION NO.
	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Model and Big School	COLUMN DETAIL	A.S.K. ENGINEERING CONSULTANCY PVT. LTD. Nepal	ENGINEER:		ST-14	R-00
					ARCHITECT:		DWG CODE. 3S18R - BIG & MODEL	
					DRAWN :			
					SCALE : 1:120	PAPER SIZE : A3		
					APPROVED:			
					DATE: FEBRUARY, 2023			



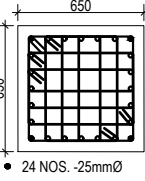
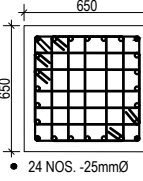
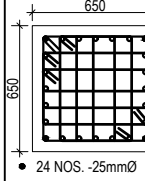
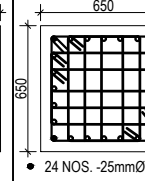
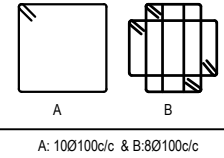
GROUND FLOOR COLUMN LAYOUT PLAN


(SCALE 1:100)

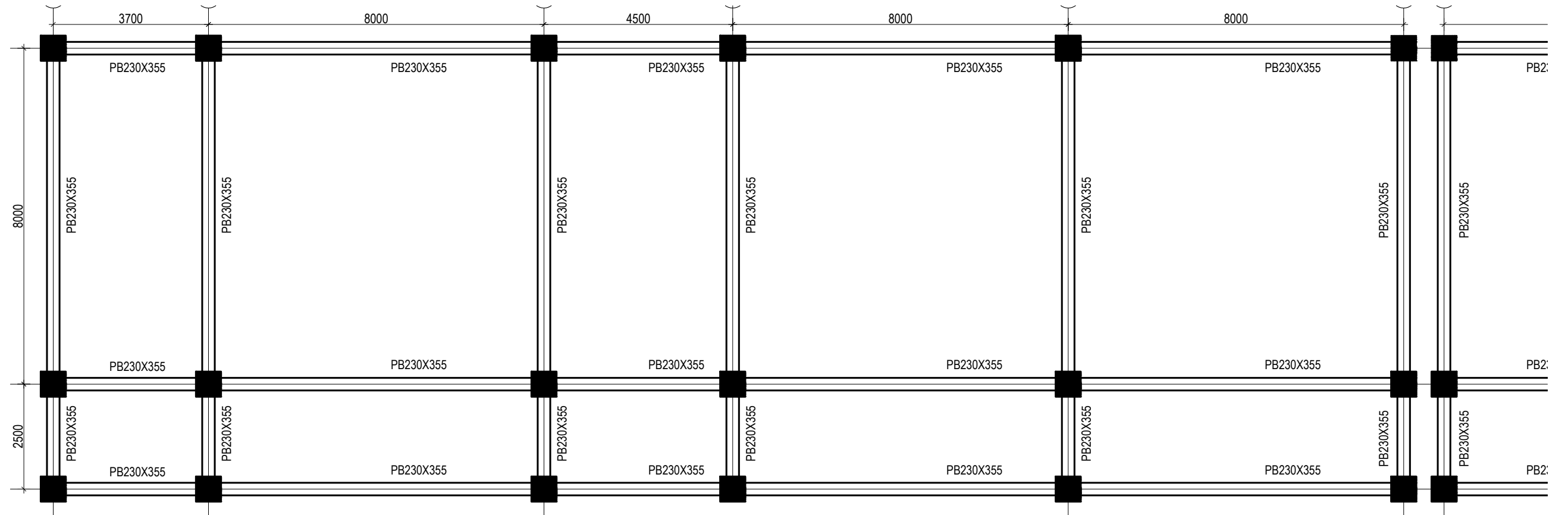
KEY PLAN



COLUMN REINFORCEMENT DETAILS

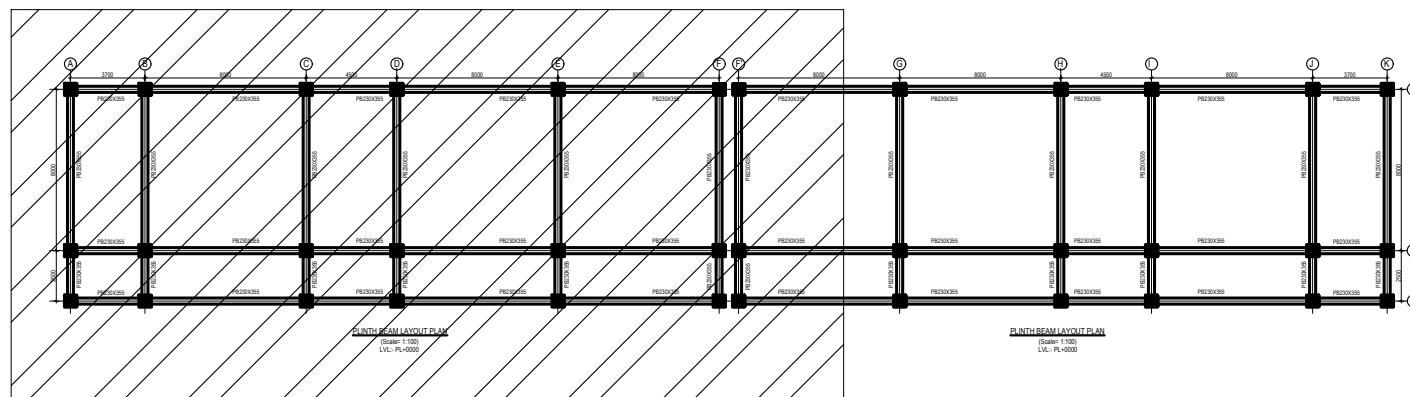
	COLUMN	COLUMN SIZE	FLOOR					TIE BAR ORIENTATION
			GROUND FLOOR	FIRST FLOOR	SECOND FLOOR	THIRD FLOOR	TOP FLOOR	
1	C1	650X650						

CLIENT		PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM		SHEET NO. ST-15	REVISION NO. R-00
	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Model and Big School	COLUMN DETAIL	A.S.K. ENGINEERING CONSULTANCY PVT. LTD. Nepal	ENGINEER:		STRUCTURE ER. :	
					ARCHITECT:		CHECKED:	
					DRAWN :		APPROVED:	
					SCALE : 1:120	PAPER SIZE : A3	DATE: FEBRUARY, 2023	
DWG CODE. 3S18R - BIG & MODEL								




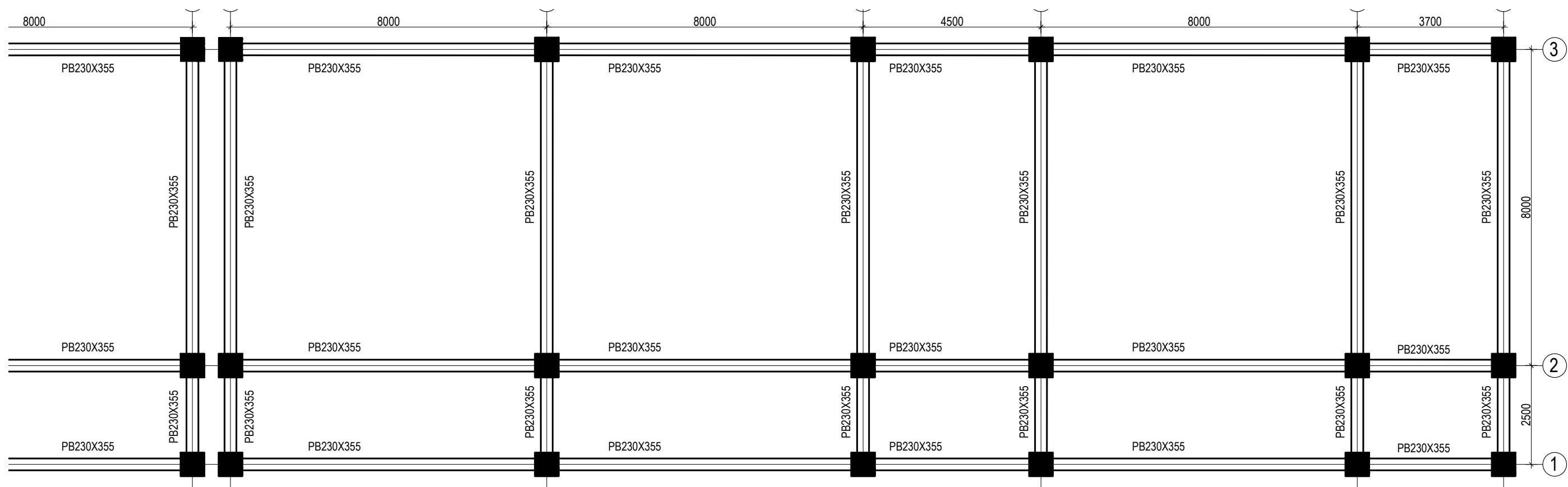
PLINTH BEAM LAYOUT PLAN

(Scale= 1:100)
LVL:- PL+0000



KEY PLAN

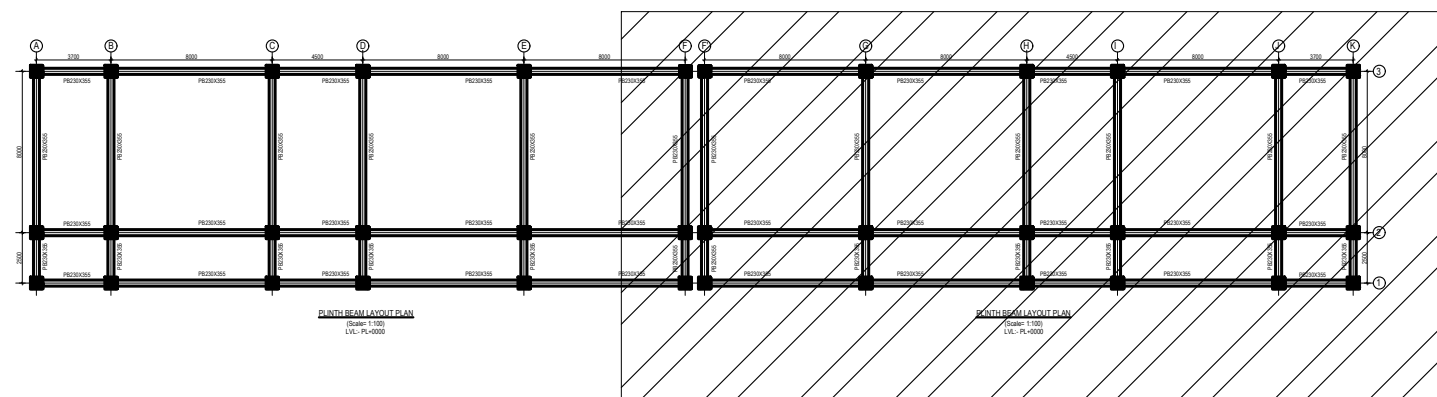
CLIENT		PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM		SHEET NO.	REVISION NO.
	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Model and Big School	BEAM LAYOUT PLAN	A.S.K. ENGINEERING CONSULTANCY PVT. LTD. Nepal	ENGINEER:		ST-16	R-00
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
PLINTH BEAM LAYOUT PLAN

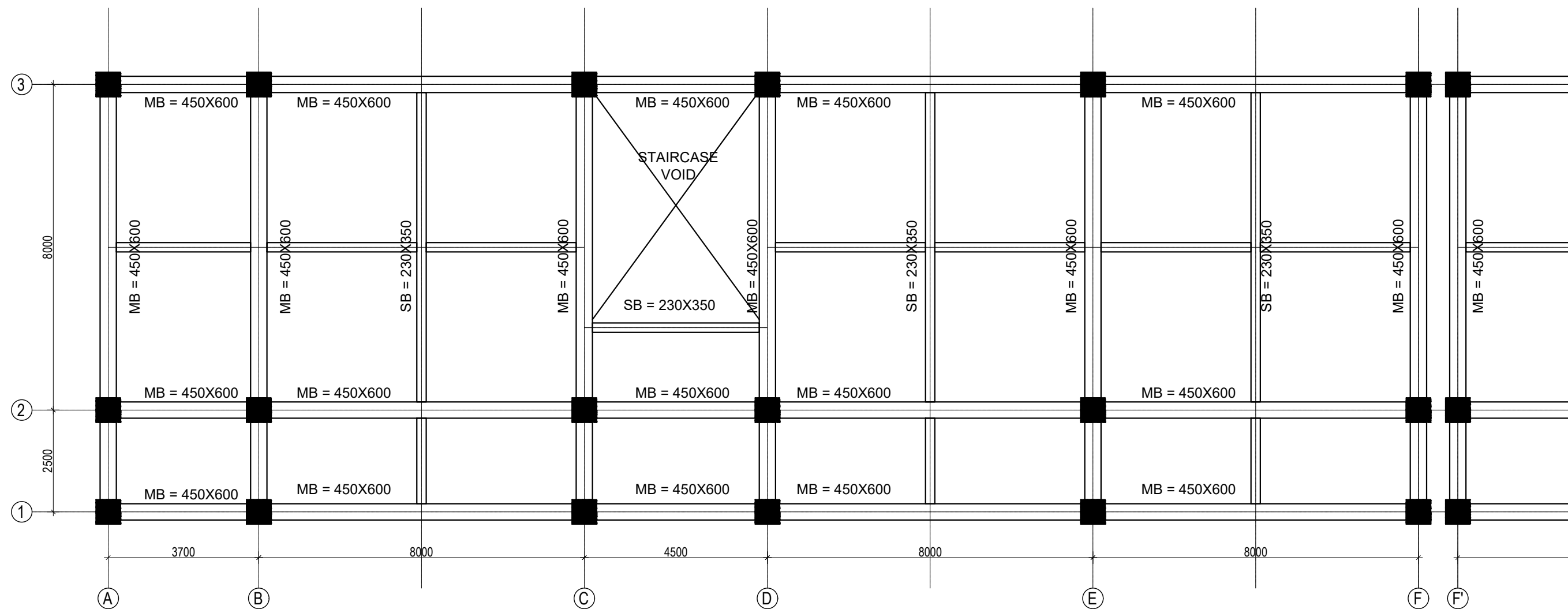
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LVL:- PL+0000



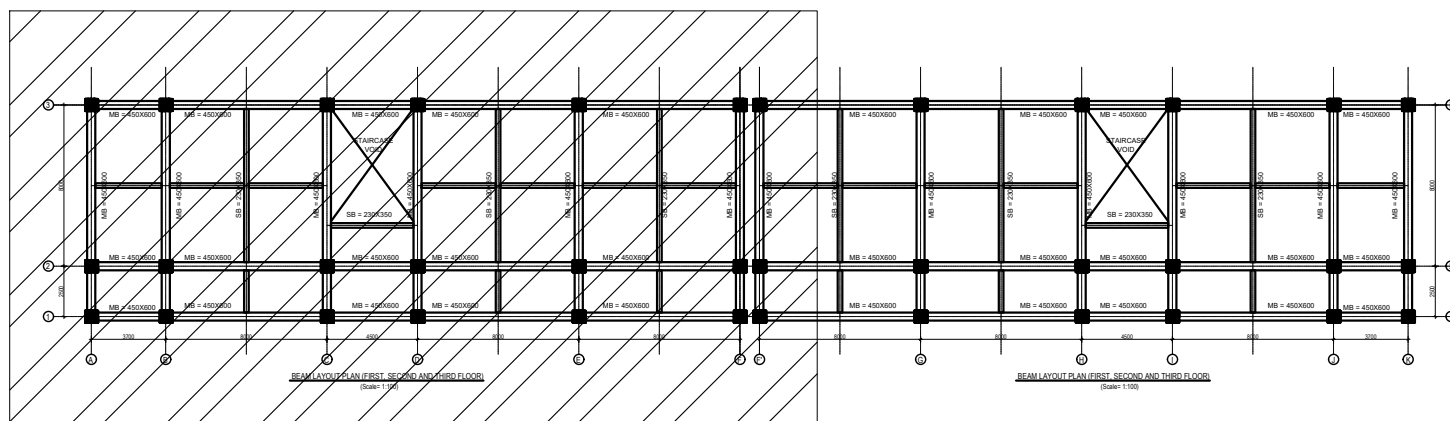
KEY PLAN


CLIENT		PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM		SHEET NO.	REVISION NO.
	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Model and Big School	BEAM LAYOUT PLAN	A.S.K. ENGINEERING CONSULTANCY PVT. LTD. Nepal	ENGINEER:		ST-17	R-00
					STRUCTURE ER. :			
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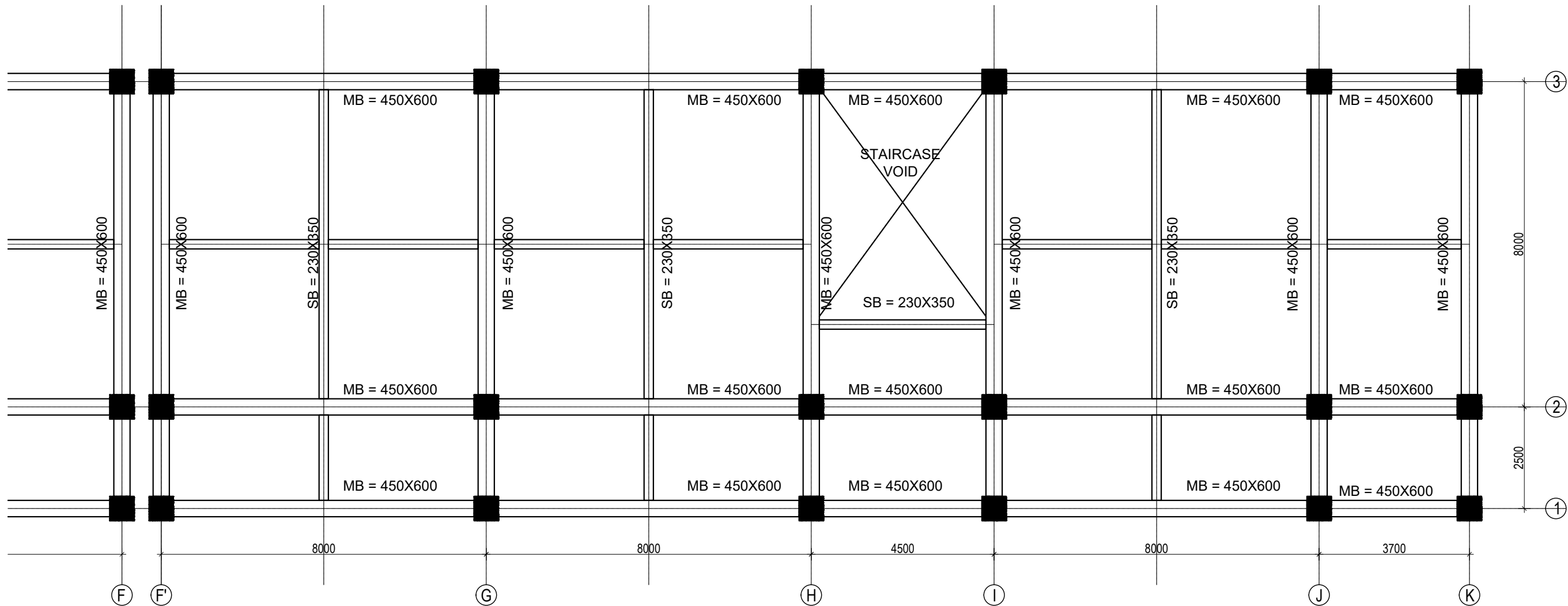


BEAM LAYOUT PLAN (FIRST, SECOND AND THIRD FLOOR)
(Scale= 1:100)

KEY PLAN

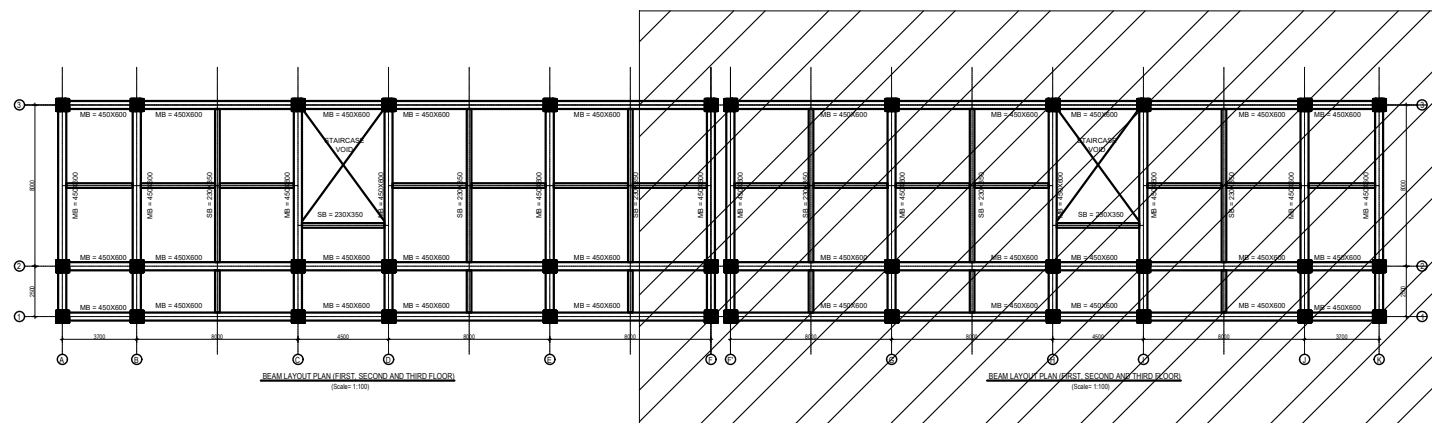



CLIENT		PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM		SHEET NO.	REVISION NO.
	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Model and Big School	BEAM LAYOUT PLAN	A.S.K. ENGINEERING CONSULTANCY PVT. LTD. Nepal	ENGINEER:		ST-18	R-00
					ARCHITECT:		STRUCTURE ER. :	
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					DATE: FEBRUARY, 2023		DWG CODE. 3S18R - BIG & MODEL	



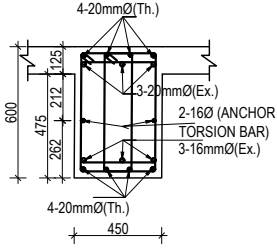
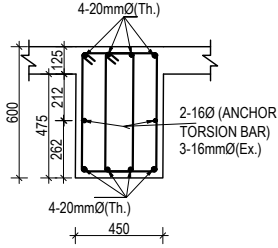
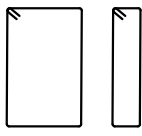
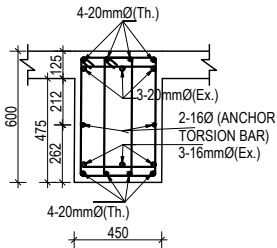
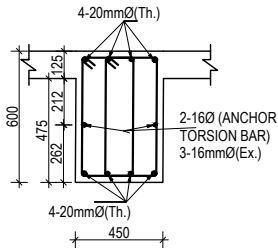
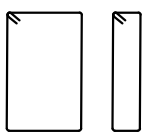
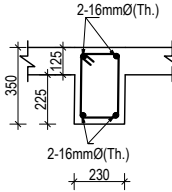
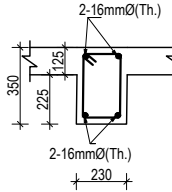

BEAM LAYOUT PLAN (FIRST, SECOND AND THIRD FLOOR)
(Scale= 1:100)


KEY PLAN

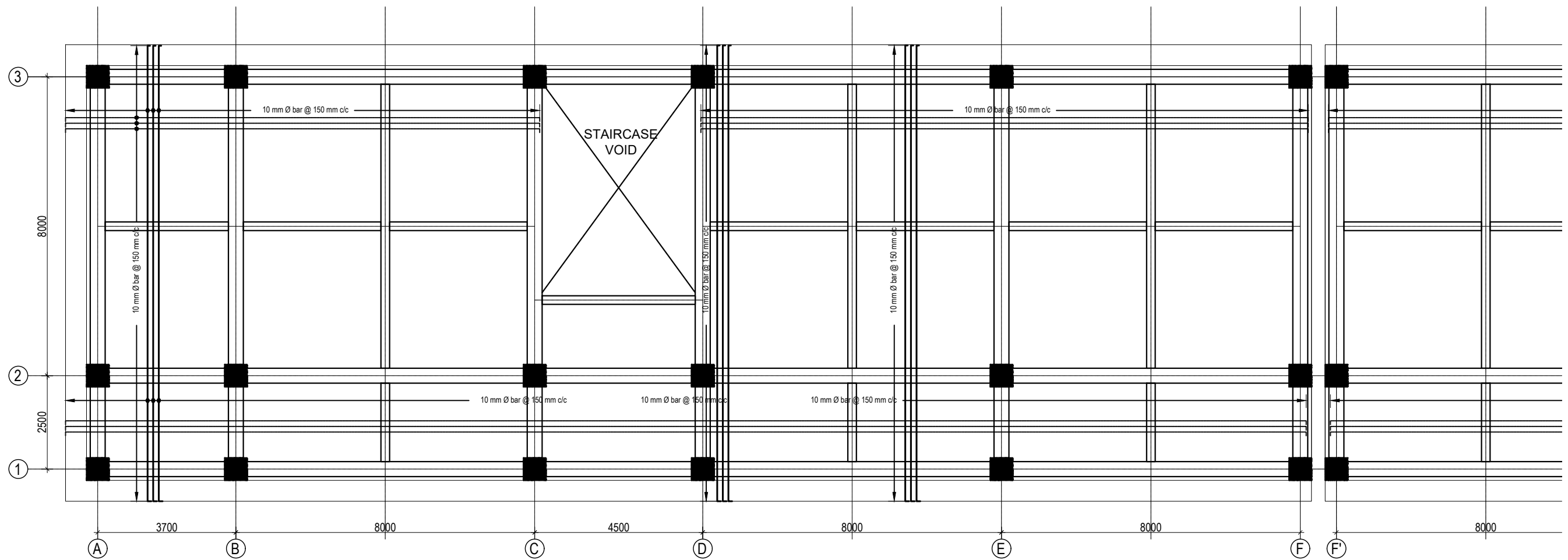


CLIENT		PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM		SHEET NO.	REVISION NO.	
	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Model and Big School	BEAM LAYOUT PLAN	A.S.K. ENGINEERING CONSULTANCY PVT. LTD. Nepal	ENGINEER:		ST-19	R-00	
					STRUCTURE ER. :				
					ARCHITECT:		CHECKED:		
					DRAWN :		APPROVED:		
SCALE : 1:120		PAPER SIZE : A3		DATE: FEBRUARY, 2023		DWG CODE. 3S18R - BIG & MODEL			

COLUMN REINFORCEMENT DETAILS

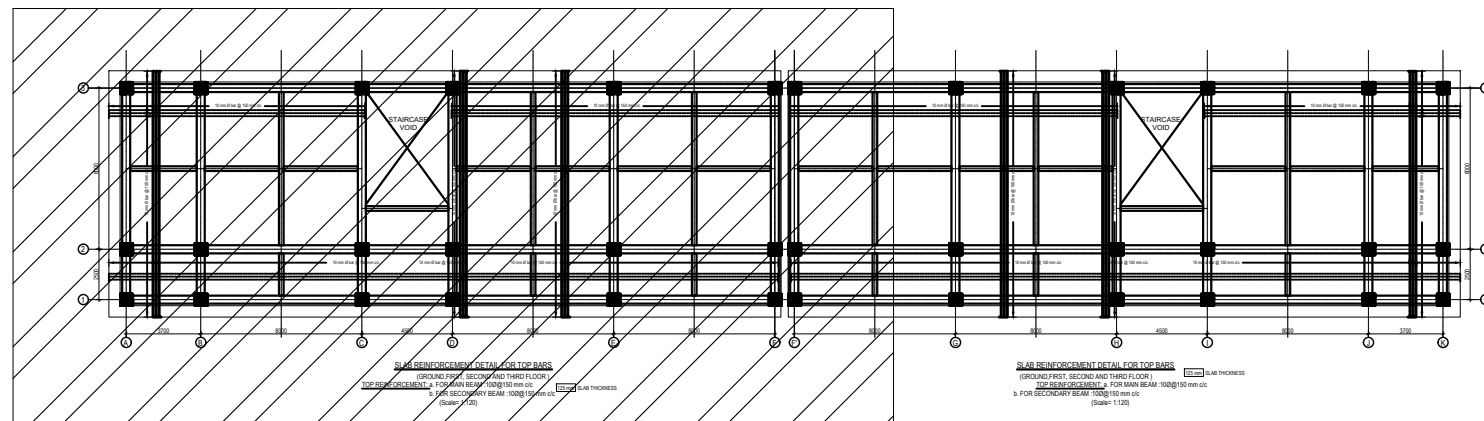
S. NO.	GRID	BEAM SIZE	AT SUPPORT	AT MID	STIRRUPS BAR ORIENTATION	FLOOR LVL
1	1-1 2-2 3-3	450X600				FIRST FLOOR BEAMS SECOND FLOOR BEAMS
					4- Legged, 100mm c/c & 150 c/c	
2	A-A B-B C-C D-D E-E	450X600				REMAINING FLOOR BEAMS
					4- Legged, 100mm c/c & 150 c/c	
3	Sec. beam	230X350				ALL FLOOR BEAMS
					2- Legged, 100mm c/c & 150 c/c	

CLIENT		PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM		SHEET NO. ST-20	REVISION NO. R-00	
	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Model and Big School	BEAM DETAIL	A.S.K. ENGINEERING CONSULTANCY PVT. LTD. Nepal	ENGINEER:		STRUCTURE ER. :		
					ARCHITECT:		CHECKED:		
					DRAWN :		APPROVED:		
					SCALE : 1:120	PAPER SIZE : A3	DATE: FEBRUARY, 2023		
								DWG CODE. 3S18R - BIG & MODEL	




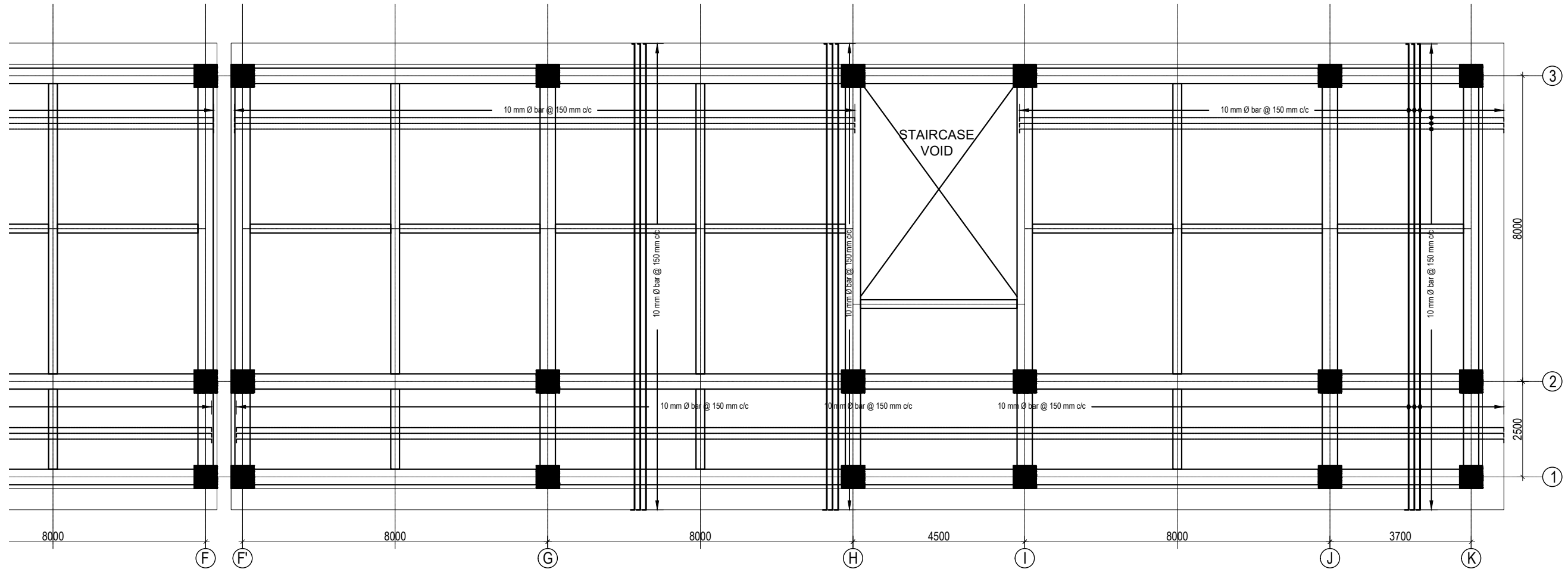
SLAB REINFORCEMENT DETAIL FOR TOP BARS
(GROUND, FIRST, SECOND AND THIRD FLOOR)
TOP REINFORCEMENT: a. FOR MAIN BEAM :10Ø@150 mm c/c
b. FOR SECONDARY BEAM :10Ø@150 mm c/c
(Scale= 1:120)

125 mm SLAB THICKNESS

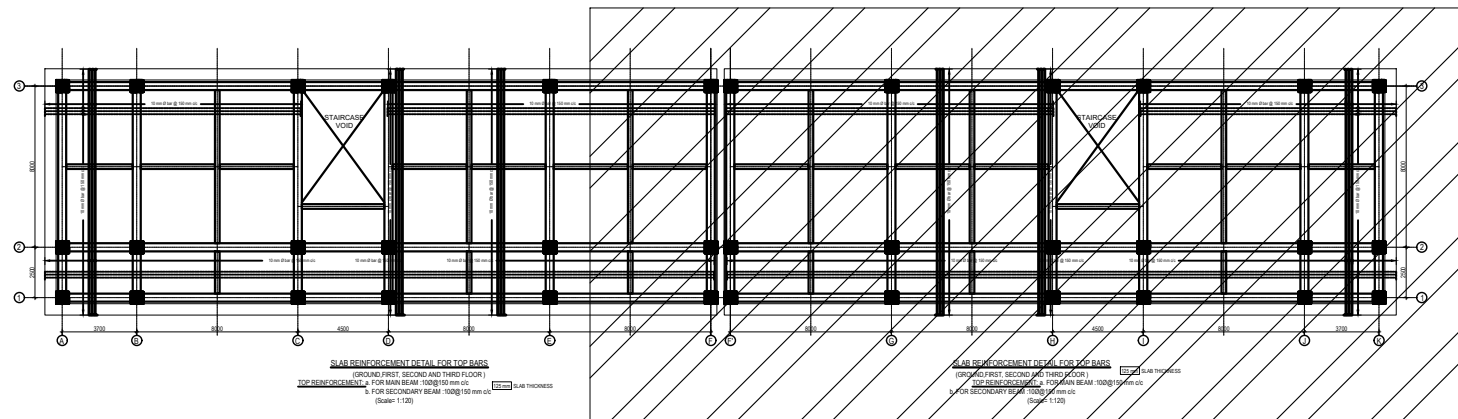


KEY PLAN


CLIENT		PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM		SHEET NO.	REVISION NO.	
	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Model and Big School	SLAB REINFORCEMENT DETAIL	A.S.K. ENGINEERING CONSULTANCY PVT. LTD. Nepal	ENGINEER:		ST-21	R-00	
					STRUCTURE ER. :				
					ARCHITECT:		CHECKED:		
					DRAWN :		APPROVED:		
SCALE : 1:120		PAPER SIZE : A3		DATE: FEBRUARY, 2023		DWG CODE. 3S18R - BIG & MODEL			

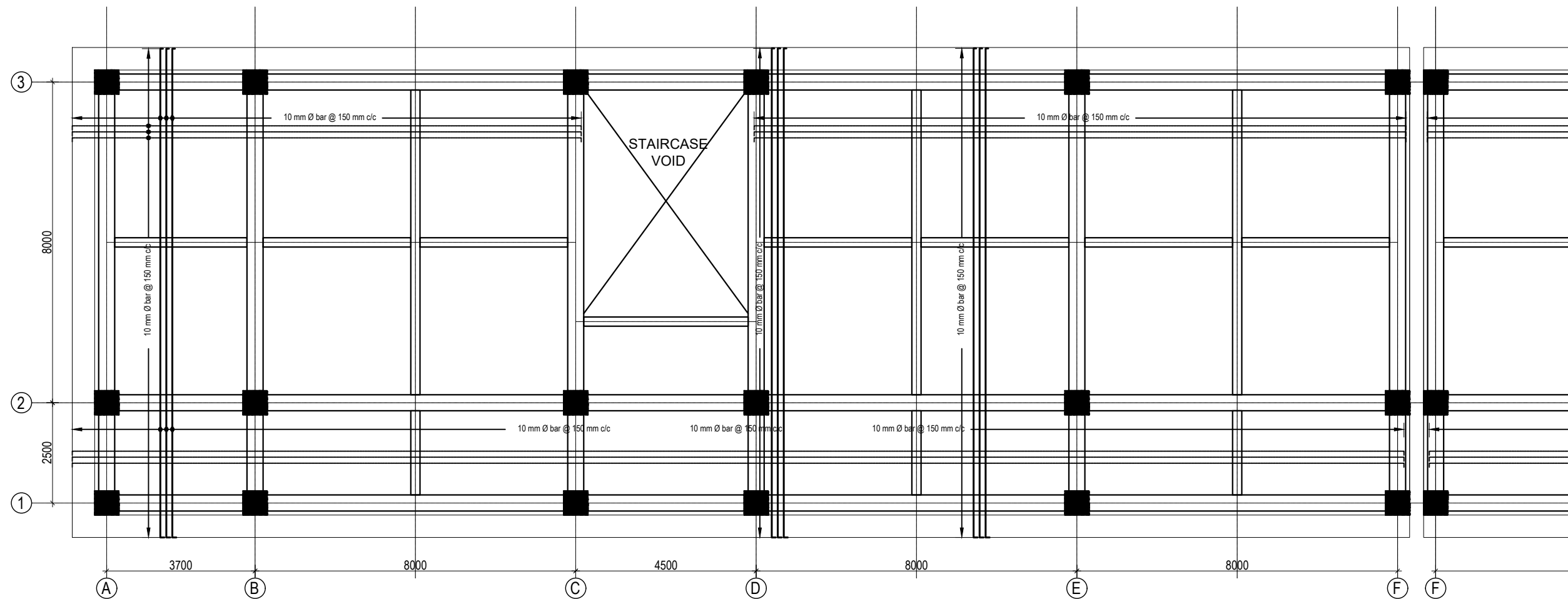


SLAB REINFORCEMENT DETAIL FOR TOP BARS
(GROUND, FIRST, SECOND AND THIRD FLOOR)
125 mm SLAB THICKNESS
TOP REINFORCEMENT: a. FOR MAIN BEAM :10Ø@150 mm c/c
b. FOR SECONDARY BEAM :10Ø@150 mm c/c
(Scale= 1:120)

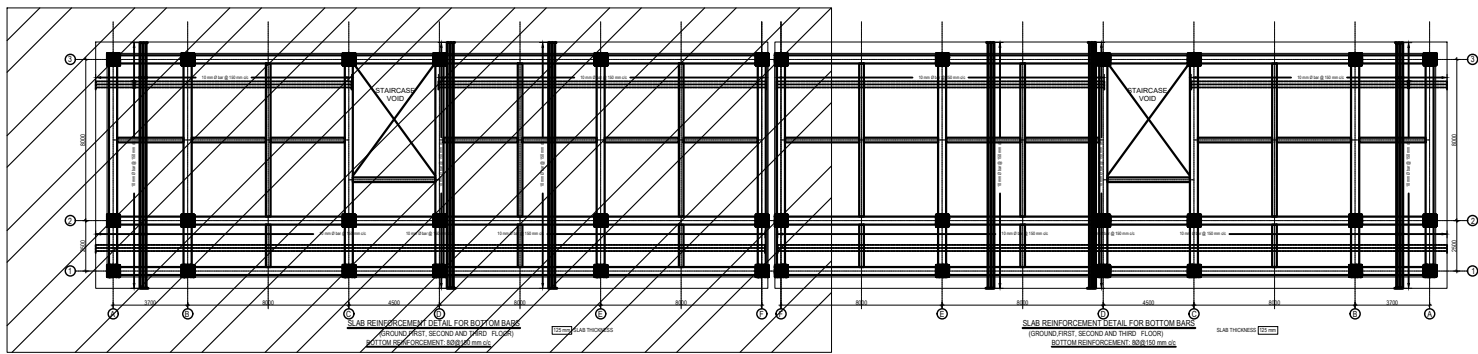


KEY PLAN


CLIENT		PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM		SHEET NO. ST-22	REVISION NO. R-00
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					DRAWN :	APPROVED:		
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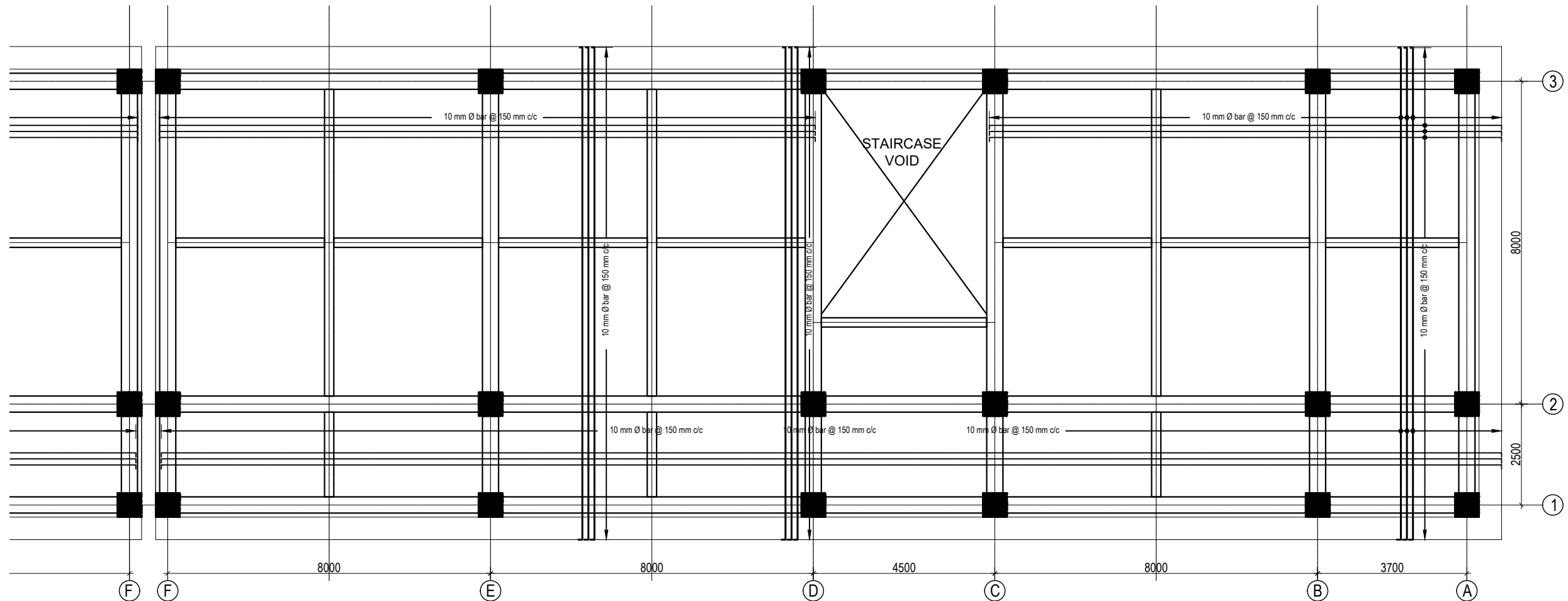


SLAB REINFORCEMENT DETAIL FOR BOTTOM BARS
(GROUND, FIRST, SECOND AND THIRD FLOOR)
BOTTOM REINFORCEMENT: 8Ø@150 mm c/c
(Scale= 1:120)

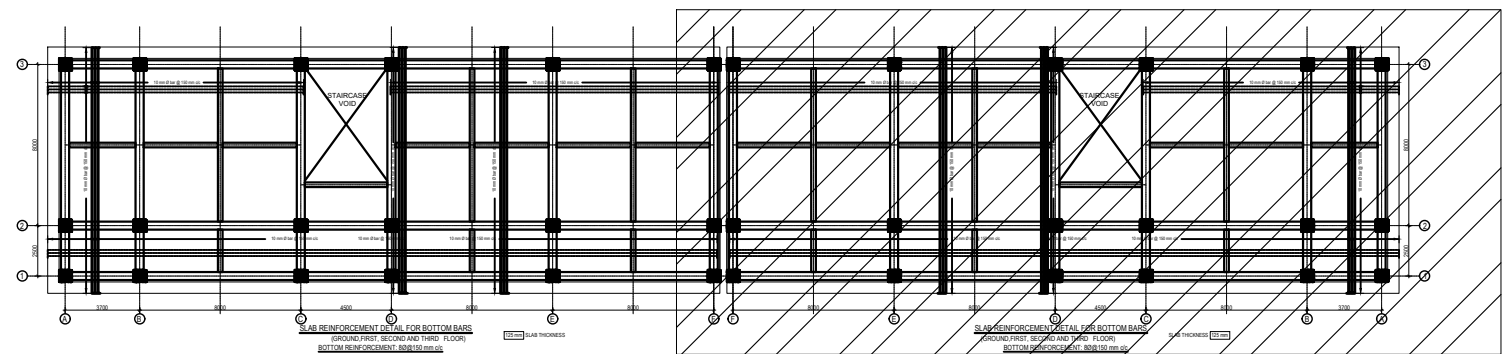


KEY PLAN


CLIENT		PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM		SHEET NO. ST-23	REVISION NO. R-00	
	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Model and Big School	SLAB REINFORCEMENT DETAIL	A.S.K. ENGINEERING CONSULTANCY PVT. LTD. Nepal	ENGINEER:		STRUCTURE ER. :		
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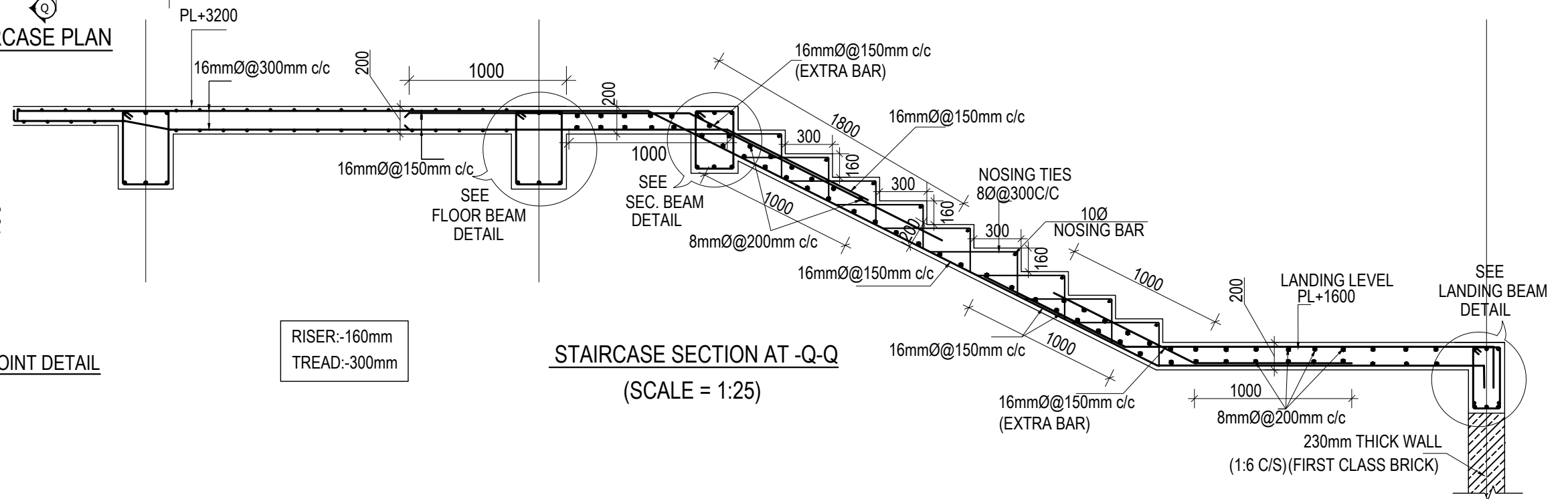
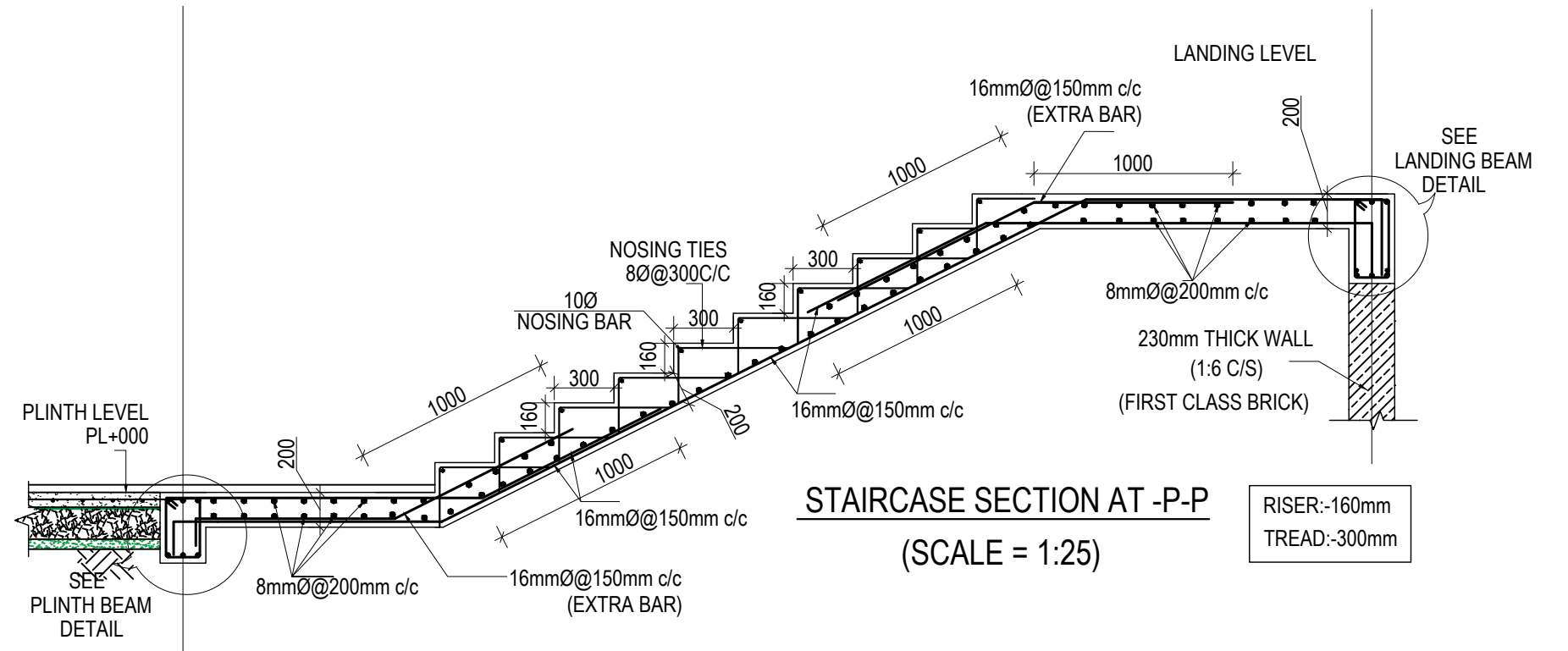
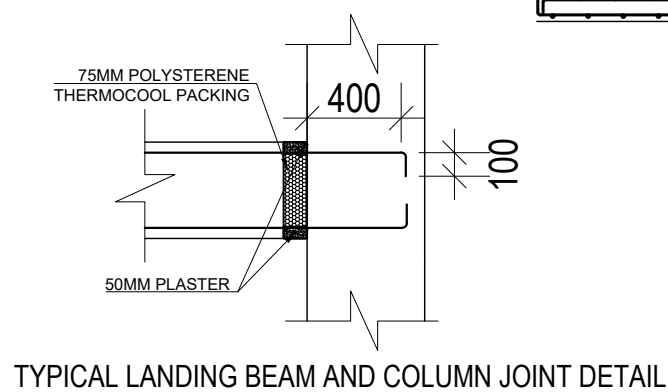
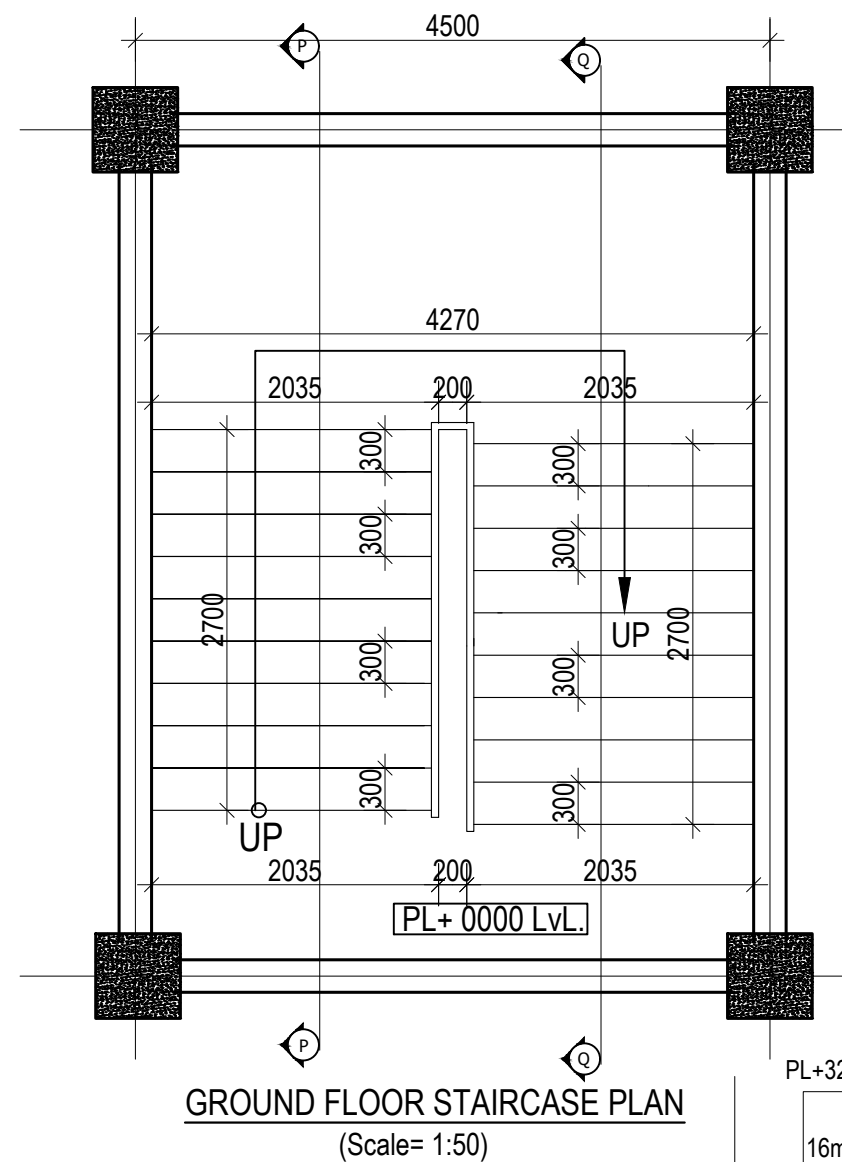


SLAB REINFORCEMENT DETAIL FOR BOTTOM BARS
(GROUND, FIRST, SECOND AND THIRD FLOOR)
BOTTOM REINFORCEMENT: 8Ø@150 mm c/c
(Scale= 1:120)

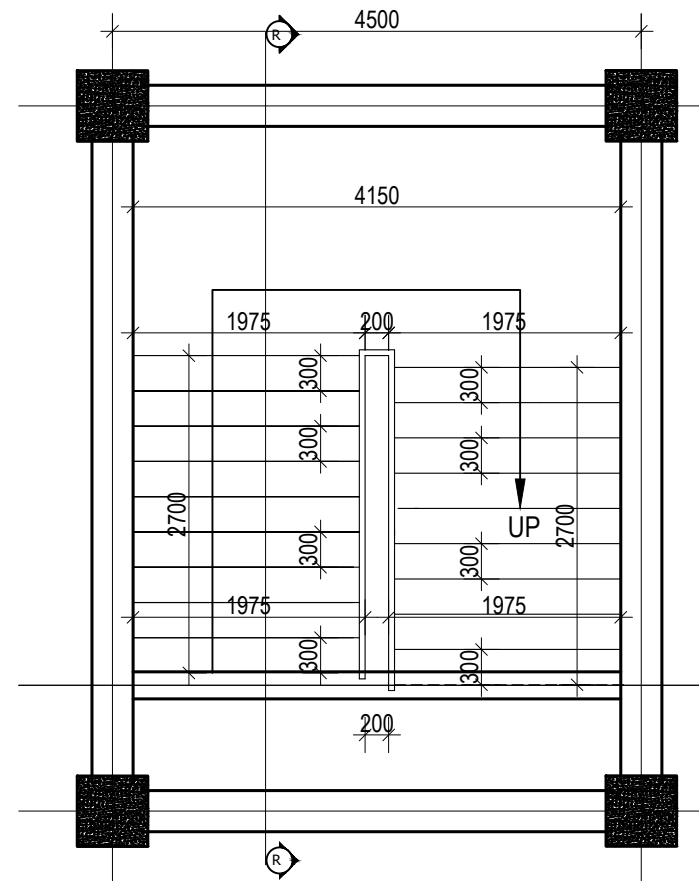


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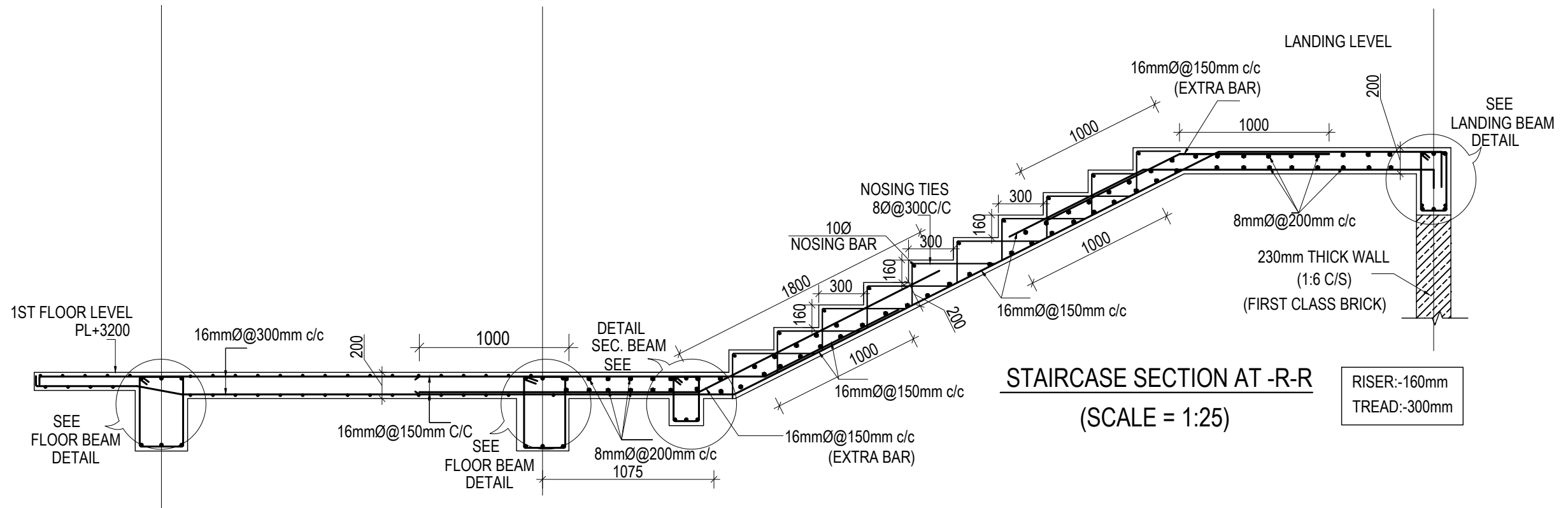
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	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Model and Big School	SLAB REINFORCEMENT DETAIL	A.S.K. ENGINEERING CONSULTANCY PVT. LTD. Nepal	ENGINEER:		STRUCTURE ER. :		DWG CODE. 3S18R - BIG & MODEL
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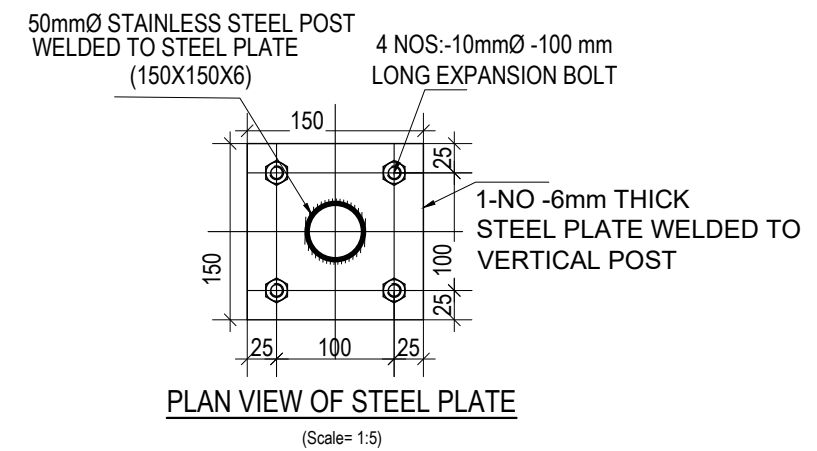
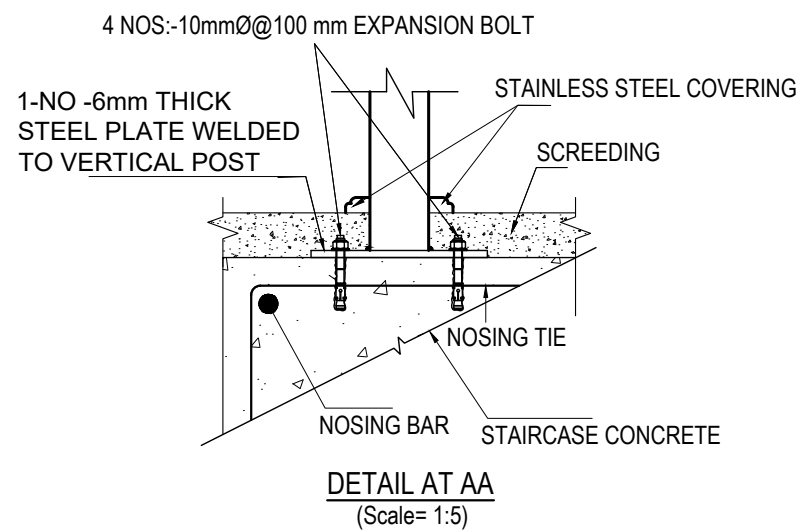
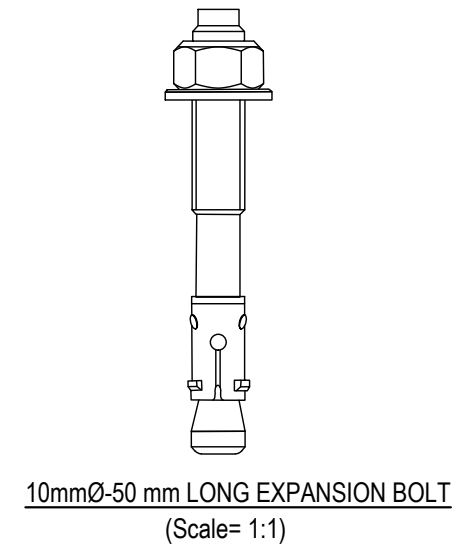
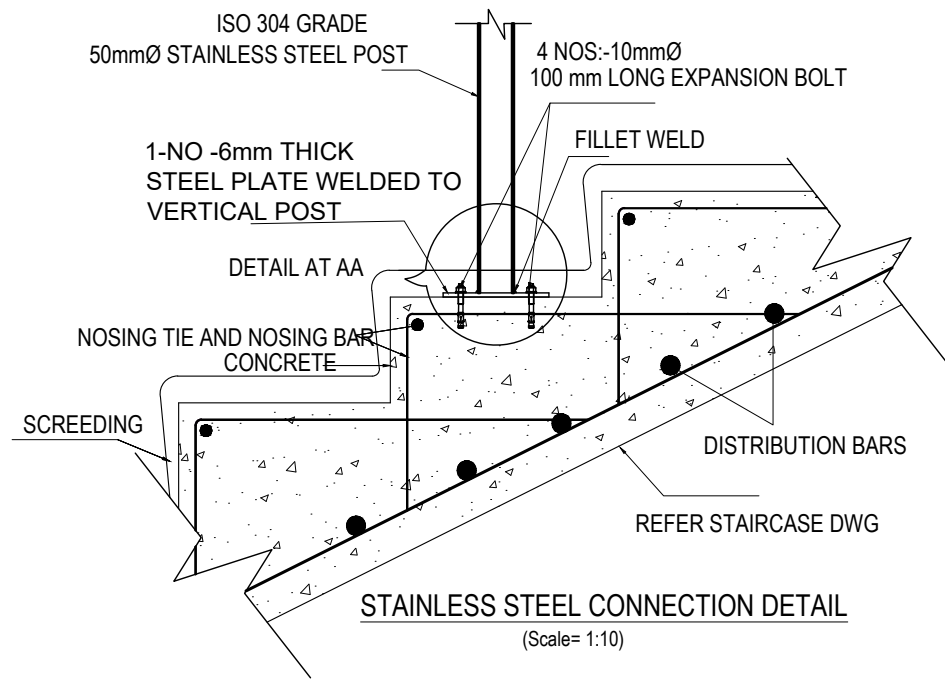
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Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanathimi, Bhaktapur, Nepal	Prepare School Building Type Design for Model and Big School	STAIRCASE DETAIL	A.S.K. ENGINEERING CONSULTANCY PVT. LTD. Nepal	ENGINEER:	STRUCTURE ER. :	ST-25	R-00
				ARCHITECT:	CHECKED:	DWG CODE. 3S18R - BIG & MODEL	
				DRAWN :	APPROVED:		
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TYPICAL FLOOR STAIRCASE PLAN
(Scale= 1:50)




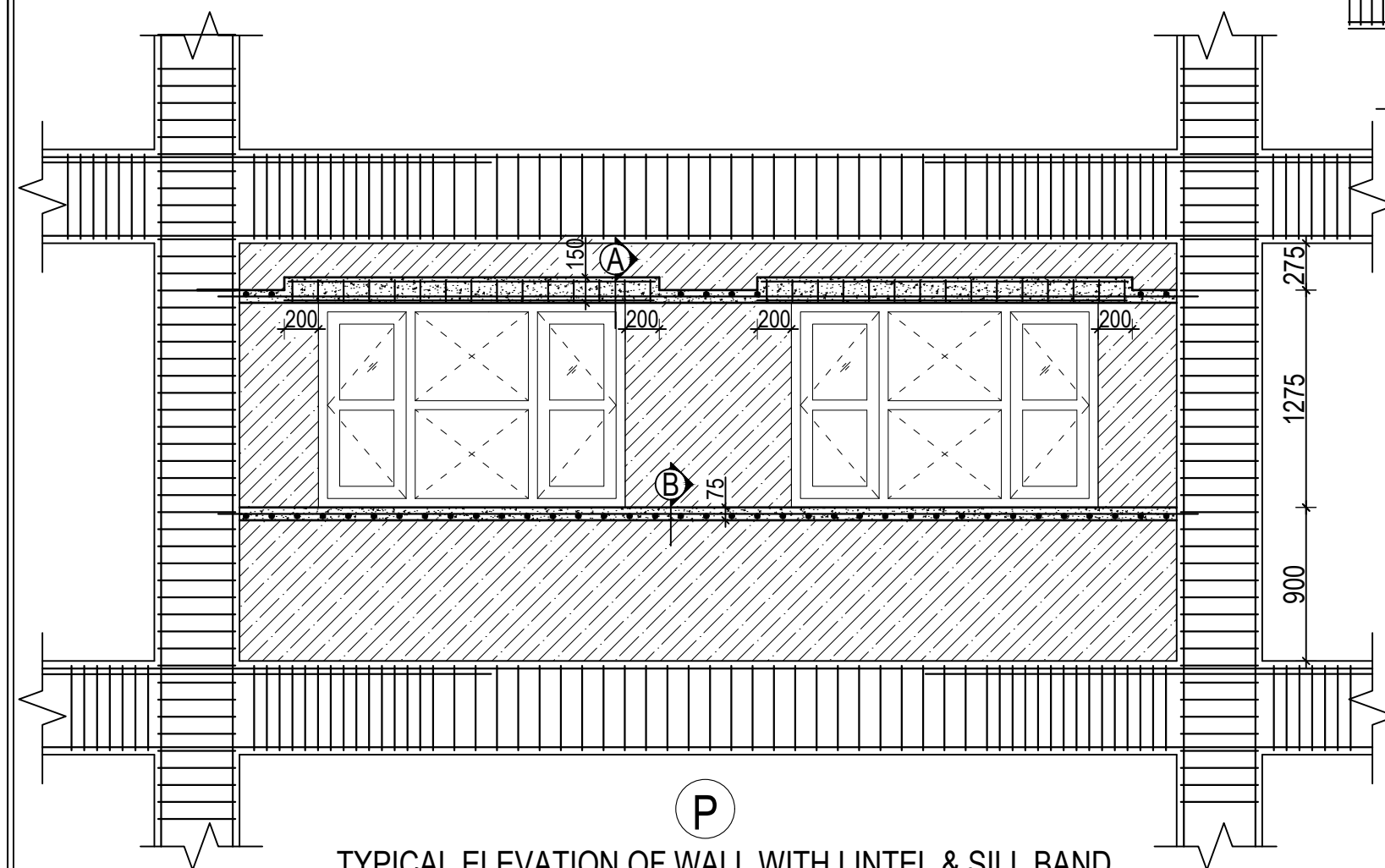
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	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Model and Big School	STAIRCASE DETAIL	A.S.K. ENGINEERING CONSULTANCY PVT. LTD. Nepal	ENGINEER:		ST-26	R-00	
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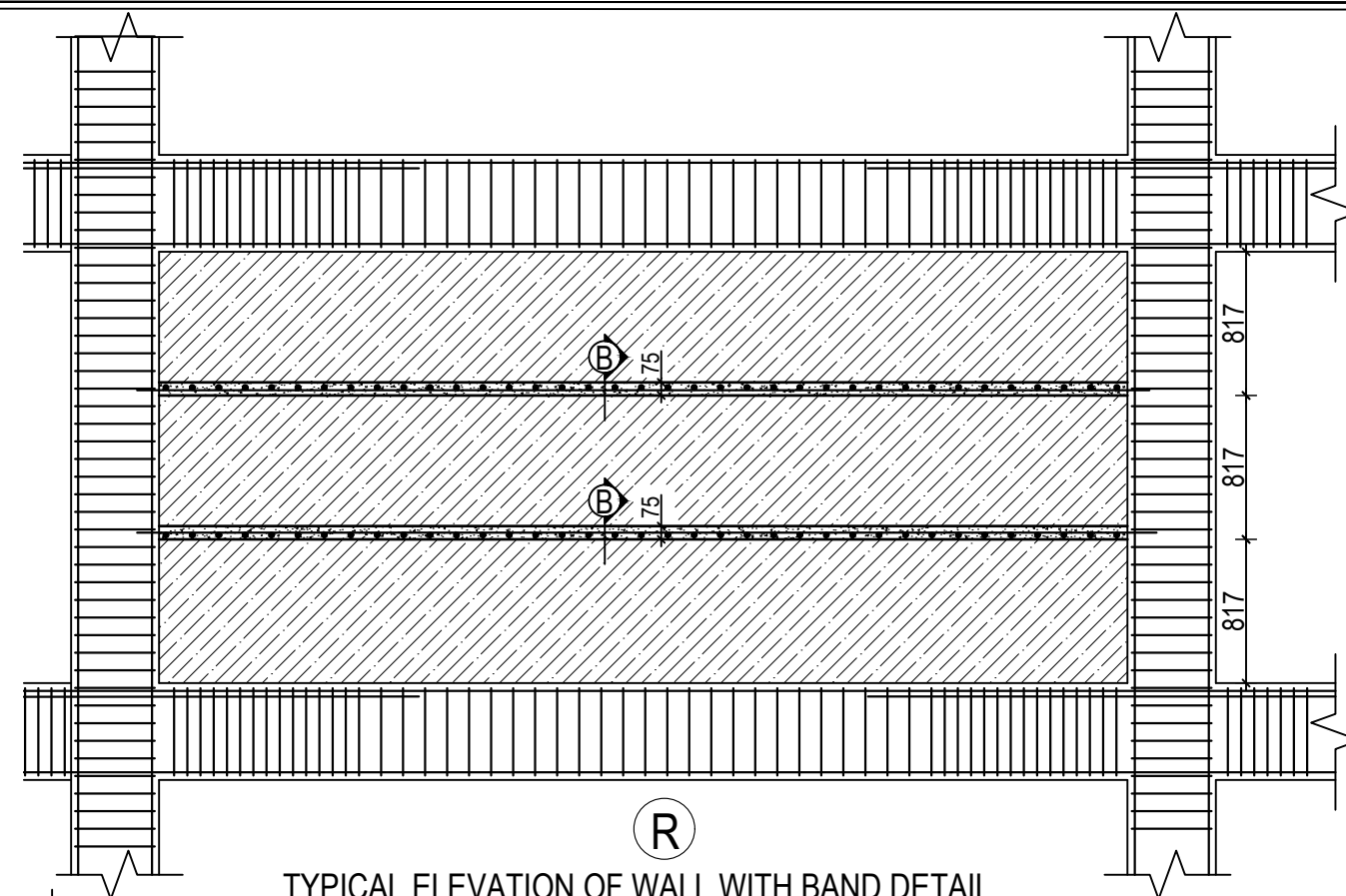
NOTE:

- 1) STAINLESS STEEL SHALL BE IN COMPLIANCE WITH ISO 304 GRADE
- 2) DRILLED HOLE SHALL BE PROPERLY CLEANED BEFORE EMBEDMENT OF BOLT

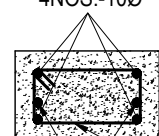
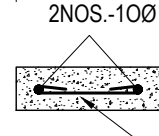
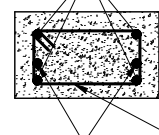
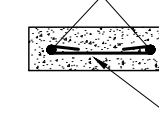
CLIENT		PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM		SHEET NO.	REVISION NO.	
	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Model and Big School	STAIRCASE DETAIL	A.S.K. ENGINEERING CONSULTANCY PVT. LTD. Nepal	ENGINEER:		ST-27	R-00	
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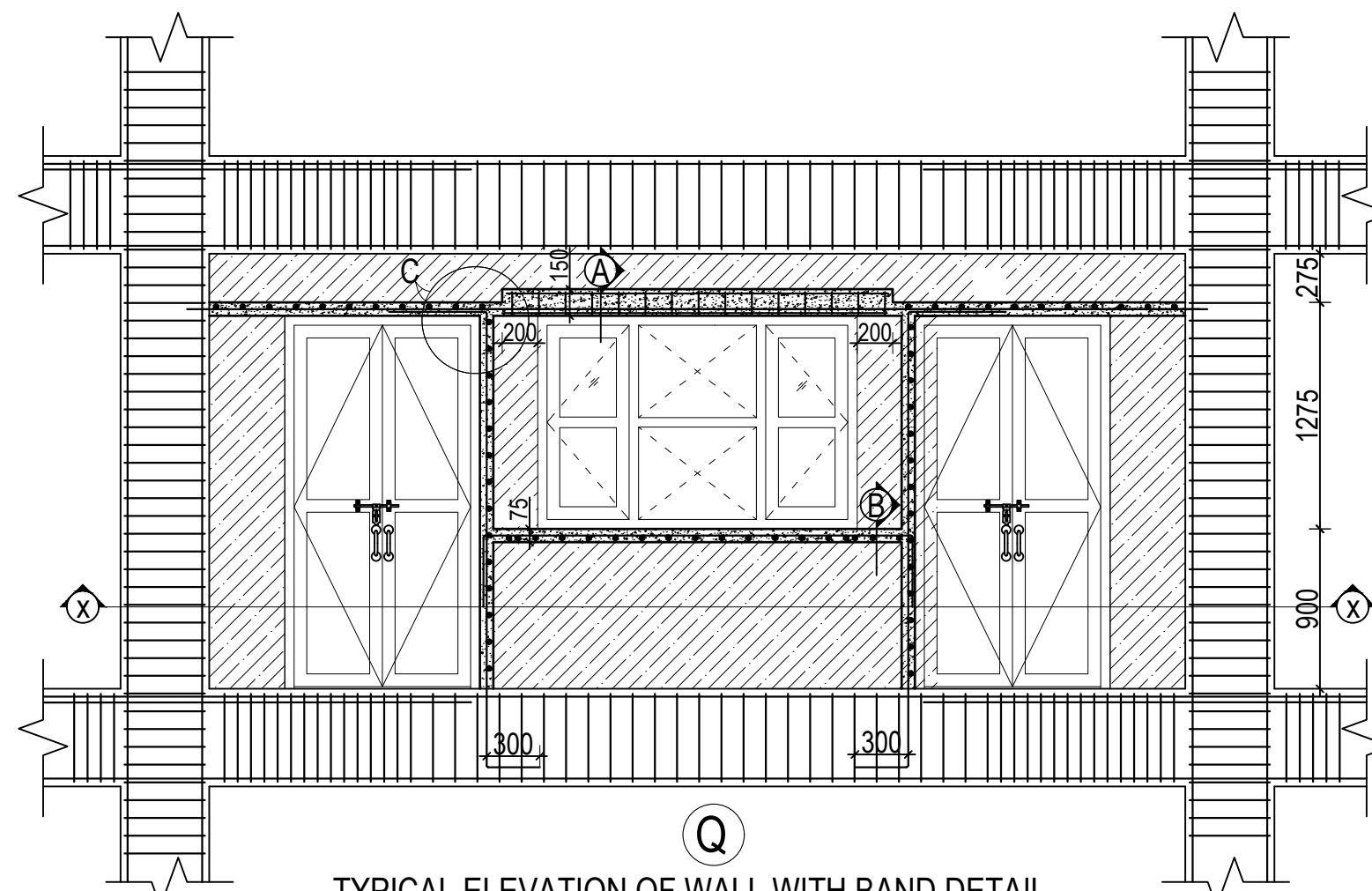
**TYPICAL ELEVATION OF WALL WITH LINTEL & SILL BAND
WITH WINDOWS**
(Scale= 1:35)



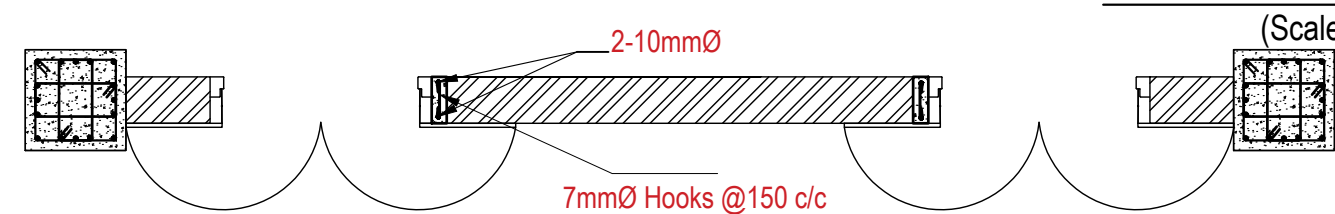
**TYPICAL ELEVATION OF WALL WITH BAND DETAIL
WITHOUT OPENINGS**
(Scale= 1:40)

SN.	FLOOR	SECTION AT A-A	SECTION AT B-B
1.	GROUND, FIRST & SECOND FLOOR	230 4NOS.-10Ø  150 8mmØ TIES @150mm c/c 2NOS.-10Ø	230 2NOS.-10Ø  75 7mmØ TIES @150mm c/c
2.	THIRD FLOOR	230 4NOS.-10Ø  150 8mmØ TIES @150mm c/c 2NOS.-12Ø	230 2NOS.-12Ø  75 7mmØ TIES @150mm c/c

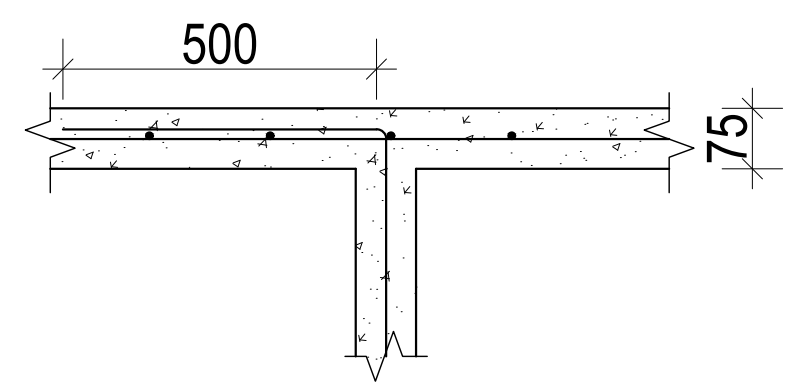
CLIENT	PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM		SHEET NO.	REVISION NO.
 Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Model and Big School	TYPICAL WALL DETAIL UPTO SECOND FLOOR	A.S.K. ENGINEERING CONSULTANCY PVT. LTD. Nepal	ENGINEER:	STRUCTURE ER. :	ST-28	R-00
				ARCHITECT:	CHECKED:	DWG CODE. 3S18R - BIG & MODEL	
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				SCALE : 1:120	PAPER SIZE : A3	DATE: FEBRUARY, 2023	



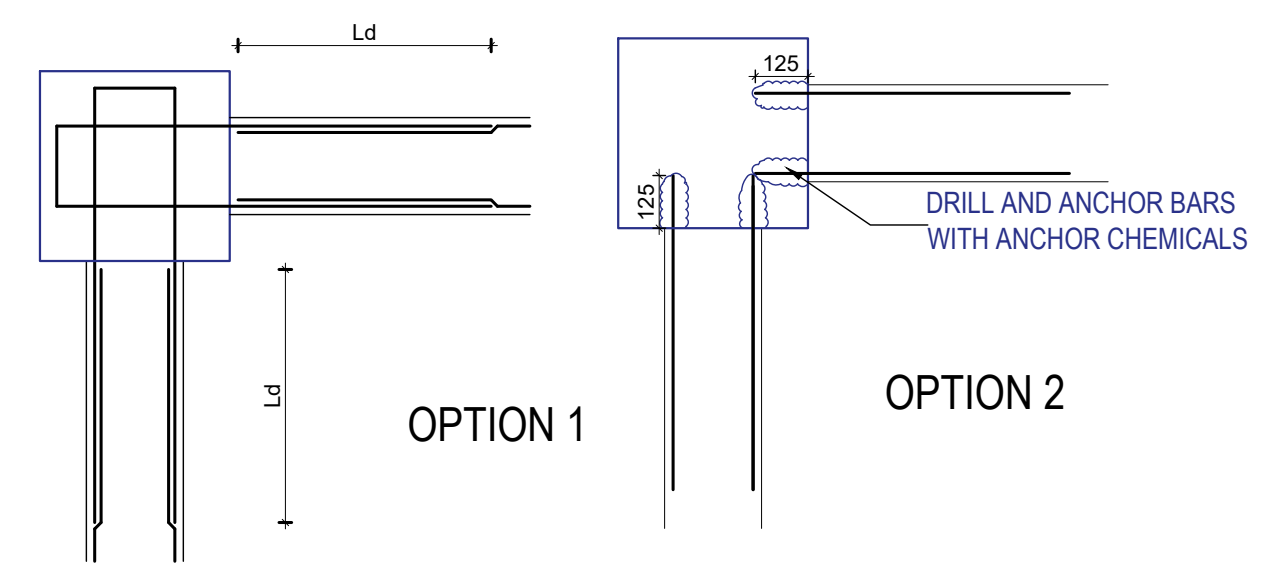
**TYPICAL ELEVATION OF WALL WITH BAND DETAIL
WITH DOORS AND WINDOWS**
(Scale= 1:35)




SECTION AT X-X



DETAIL AT C



CONNECTION OF BAND REBARS AND COLUMN

CLIENT		PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM		SHEET NO.	REVISION NO.
	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Model and Big School	TYPICAL WALL DETAIL UPTO SECOND FLOOR	A.S.K. ENGINEERING CONSULTANCY PVT. LTD. Nepal	ENGINEER:	STRUCTURE ER. :	ST-29	R-00
					ARCHITECT:	CHECKED:		
					DRAWN :	APPROVED:	DWG CODE. 3S18R - BIG & MODEL	
					SCALE : 1:120	PAPER SIZE : A3		

ELECTRICAL DRAWING



Government of Nepal
Ministry of Education, Science & Technology
Center for Education and Human Resource Development
Sanothimi, Bhaktapur, Nepal

PREPARE SCHOOL BUILDING TYPE DESIGN FOR MODEL AND BIG SCHOOL

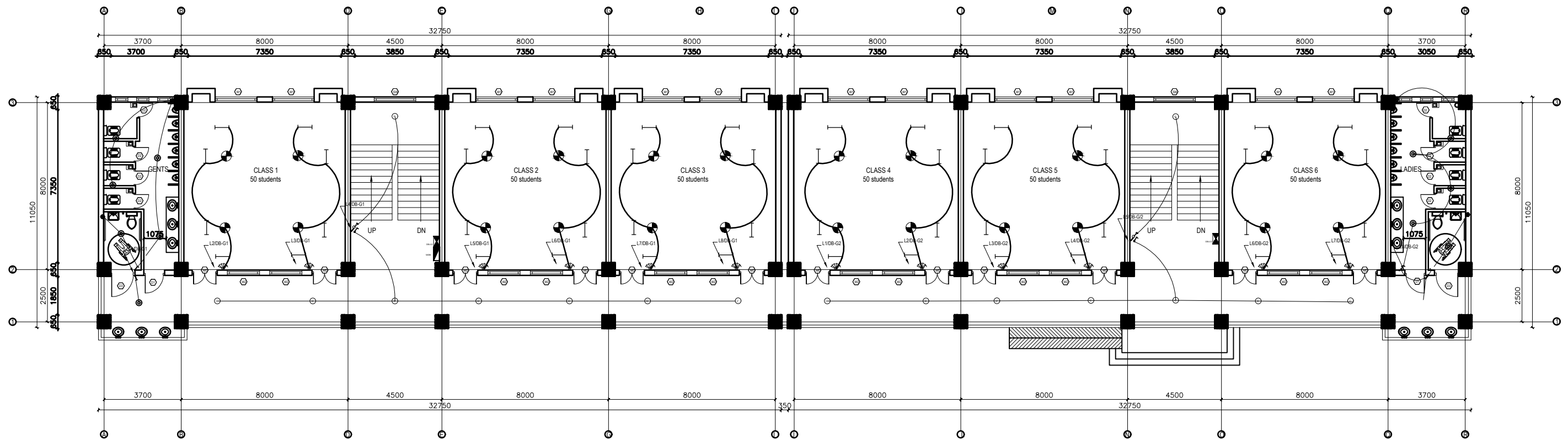
Contract ID: CEHRD/SESP/SQ/Consultancy/05/2079/080

DETAIL DESIGN AND DRAWING

**3 STORY@18 ROOM WITH
(TOILET, WASH ROOM, CHANGING ROOM & CHANGING ROOM)**

**SUBMITTED BY:
A.S.K. ENGINEERING CONSULTANCY PVT. LTD.**


FEBRUARY, 2023

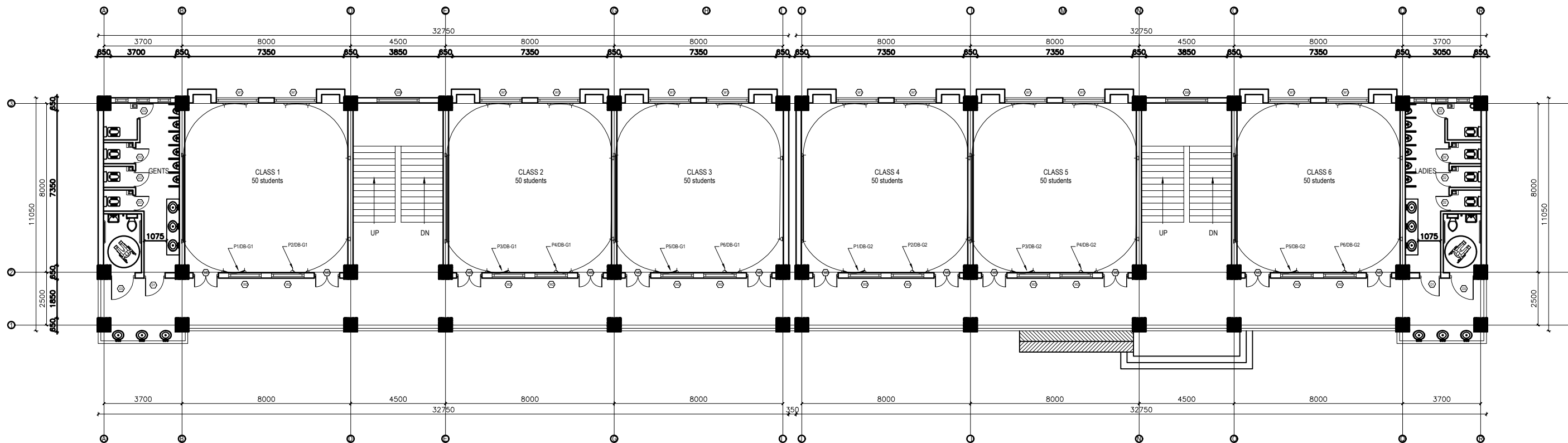


GROUND FLOOR PLAN
FLOOR AREA: 734.12 sq.m











LEGEND		
SYMBOL	DESCRIPTION	MOUNT HEIGHT
	40 W Tubelight	Attached to wall
	12W CFL Light Bulb	Attached to ceiling
	42" Ceiling Fan	Attached to ceiling
	Power Socket	300mm from finished floor level
	1,2,3 gang Switch	1.25m above finished floor level
	4,5,6 gang Switch	1.25m above finished floor level
	Two way Switch	1.25m above finished floor level
	Distribution Box	2.5m above finished floor level
	MDB	1m above finished floor level
	9" Exhaust Fan	24" BELOW SLAB

EARTHING & LIGHTNING PROTECTION SYSTEM		
SYMBOLS	DESCRIPTION	MOUNTING HEIGHT
	VERTICAL AIR TERMINAL	--
	CLIP TO HOLD DOWN CONDUCTOR	--
	EARTH TEST LINK	--
	EARTH PIT	--


CLIENT		PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM		SHEET NO. 01	REVISION NO. R-00
	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Big and Model School	ELECTRICAL DRAWING	A.S.K. ENGINEERING CONSULTANCY PVT.LTD.	ENGINEER:	STRUCTURE ER. :	DWG CODE. 3S18R-BIG & VALLEY	
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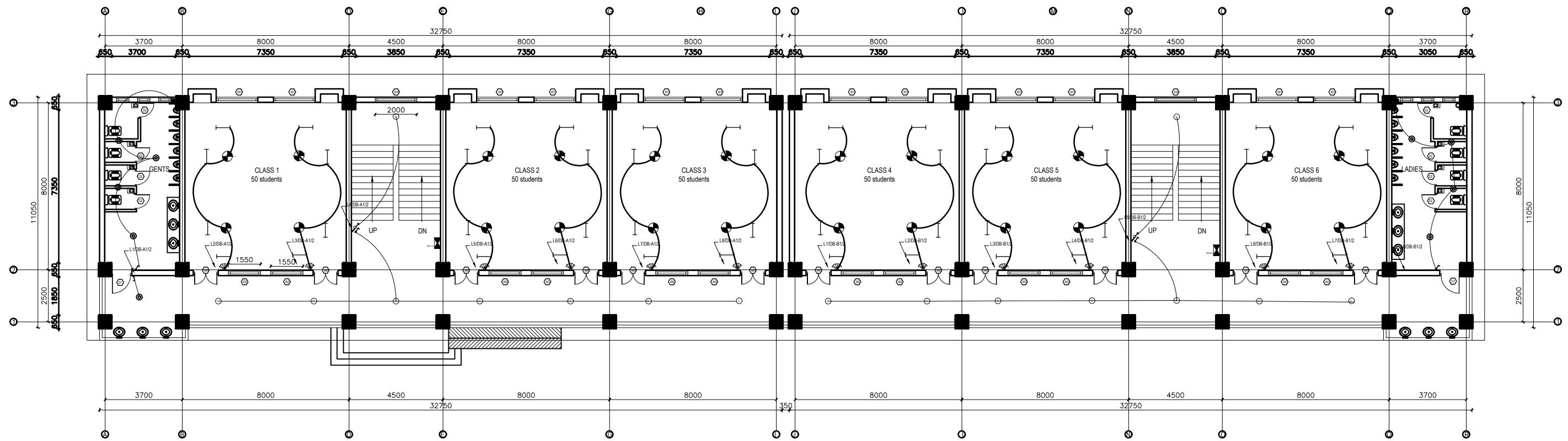


GROUND FLOOR PLAN
FLOOR AREA: 734.12 sq.m

LEGEND		
SYMBOL	DESCRIPTION	MOUNT HEIGHT
	40 W Tubelight	Attached to wall
	12W CFL Light Bulb	Attached to ceiling
	42" Ceiling Fan	Attached to ceiling
	Power Socket	300mm from Finished Floor level
	1,2,3 gang Switch	1.25m above finished floor level
	4,5,6 gang Switch	1.25m above finished floor level
	Two way Switch	1.25m above finished floor level
	Distribution Box	2.5m above finished floor level
	MDB	1m above finished floor level
	9" Exhaust Fan	24" BELOW SLAB

EARTHING & LIGHTNING PROTECTION SYSTEM		
SYMBOLS	DESCRIPTION	MOUNTING HEIGHT
	VERTICAL AIR TERMINAL	--
	CLIP TO HOLD DOWN CONDUCTOR	--
	EARTH TEST LINK	--
	EARTH PIT	--

CLIENT		PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM			SHEET NO. 02	REVISION NO. R-00
	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Big and Model School	ELECTRICAL DRAWING	A.S.K. ENGINEERING CONSULTANCY PVT.LTD.	ENGINEER:		STRUCTURE ER. :		DWG CODE. 3S18R-BIG &VALLEY
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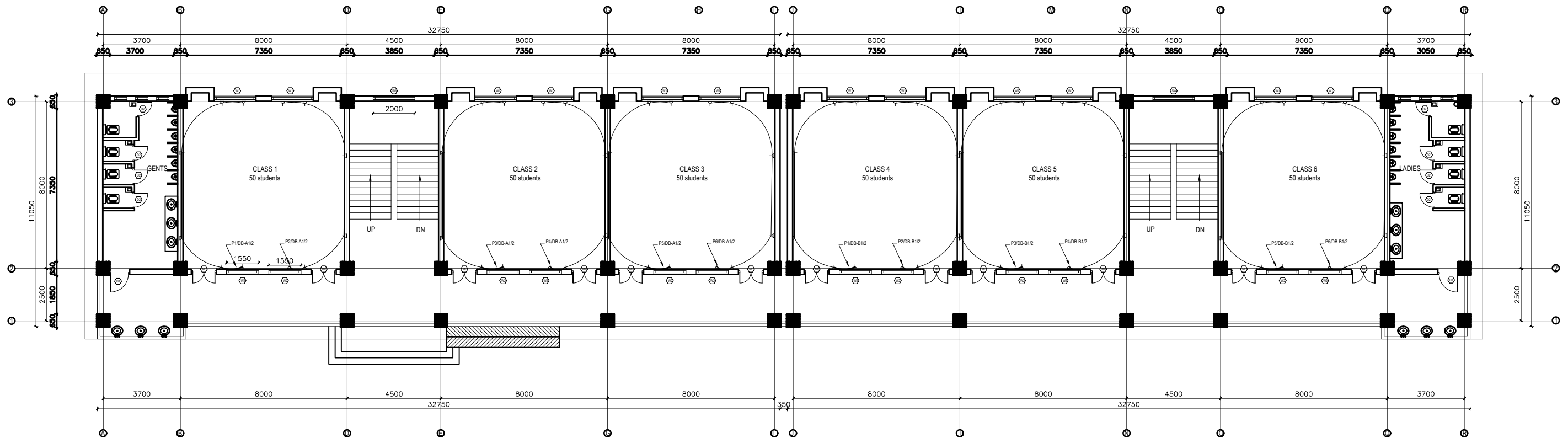


FIRST FLOOR PLAN
FLOOR AREA: 734.12 sq.m

LEGEND		
SYMBOL	DESCRIPTION	MOUNT HEIGHT
	40 W Tubelight	Attached to wall
	12W CFL Light Bulb	Attached to ceiling
	42" Ceiling Fan	Attached to ceiling
	Power Socket	300mm from finished floor level
	1,2,3 gang Switch	1.25m above finished floor level
	4,5,6 gang Switch	1.25m above finished floor level
	Two way Switch	1.25m above finished floor level
	Distribution Box	2.5m above finished floor level
	MDB	1m above finished floor level
	9" Exhaust Fan	24" BELOW SLAB

EARTHING & LIGHTNING PROTECTION SYSTEM		
SYMBOLS	DESCRIPTION	MOUNTING HEIGHT
	VERTICAL AIR TERMINAL	--
	CLIP TO HOLD DOWN CONDUCTOR	--
	EARTH TEST LINK	--
	EARTH PIT	--

CLIENT	PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM		SHEET NO. 03	REVISION NO. R-00
 Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Big and Model School	ELECTRICAL DRAWING	A.S.K. ENGINEERING CONSULTANCY PVT.LTD.	ENGINEER:	STRUCTURE ER. :	DWG CODE. 3S18R- BIG & VALLEY	
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				DRAWN :	APPROVED:		
				SCALE :	PAPER SIZE : A3 DATE: FEBRUARY, 2023		

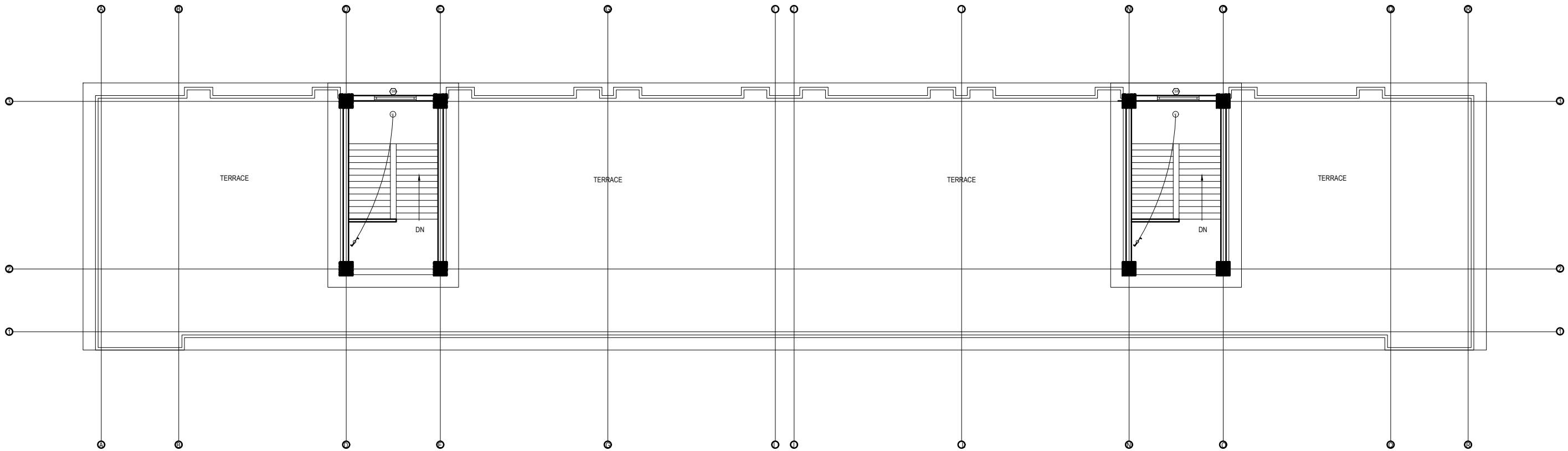


FIRST FLOOR PLAN
FLOOR AREA: 734.12 sq.m

LEGEND		
SYMBOL	DESCRIPTION	MOUNT HEIGHT
	40 W Tubelight	Attached to wall
	12WCFL Light Bulb	Attached to ceiling
	42"Ceiling Fan	Attached to ceiling
	Power Socket	300mm from finished floor level
	1,2,3 gang Switch	1.25m above finished floor level
	4,5,6 gang Switch	1.25m above finished floor level
	Two way Switch	1.25m above finished floor level
	Distribution Box	2.5m above finished floor level
	MDB	1m above finished floor level
	9"Exhaust Fan	24" BELOW SLAB

EARTHING & LIGHTNING PROTECTION SYSTEM		
SYMBOLS	DESCRIPTION	MOUNTING HEIGHT
	VERTICAL AIR TERMINAL	--
	CLIP TO HOLD DOWN CONDUCTOR	--
	EARTH TEST LINK	--
	EARTH PIT	--


CLIENT		PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM		SHEET NO. 04	REVISION NO. R-00
	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Big and Model School	ELECTRICAL DRAWING	A.S.K. ENGINEERING CONSULTANCY PVT.LTD.	ENGINEER:	STRUCTURE ER. :	DWG CODE. 3S18R-BIG & VALLEY	
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					SCALE :	PAPER SIZE : A3 DATE: FEBRUARY, 2023		

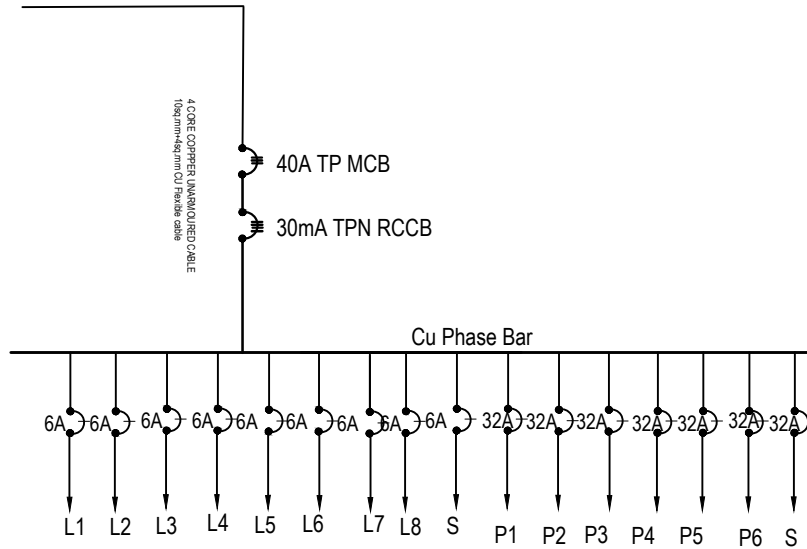


TOP FLOOR PLAN
FLOOR AREA: 86.34 sq.m

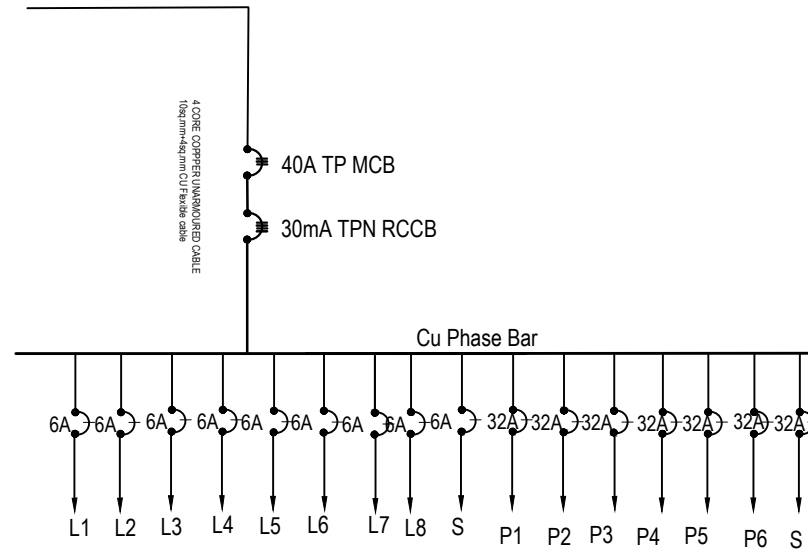
LEGEND		
SYMBOL	DESCRIPTION	MOUNT HEIGHT
	40 W Tubelight	Attached to wall
	12W CFL Light Bulb	Attached to ceiling
	42" Ceiling Fan	Attached to ceiling
	Power Socket	300mm from finished floor level
	1,2,3 gang Switch	1.25m above finished floor level
	4,5,6 gang Switch	1.25m above finished floor level
	Two way Switch	1.25m above finished floor level
	Distribution Box	2.5m above finished floor level
	MDB	1m above finished floor level
	9" Exhaust Fan	24" BELOW SLAB

EARTHING & LIGHTNING PROTECTION SYSTEM		
SYMBOLS	DESCRIPTION	MOUNTING HEIGHT
	VERTICAL AIR TERMINAL	--
	CLIP TO HOLD DOWN CONDUCTOR	--
	EARTH TEST LINK	--
	EARTH PIT	--

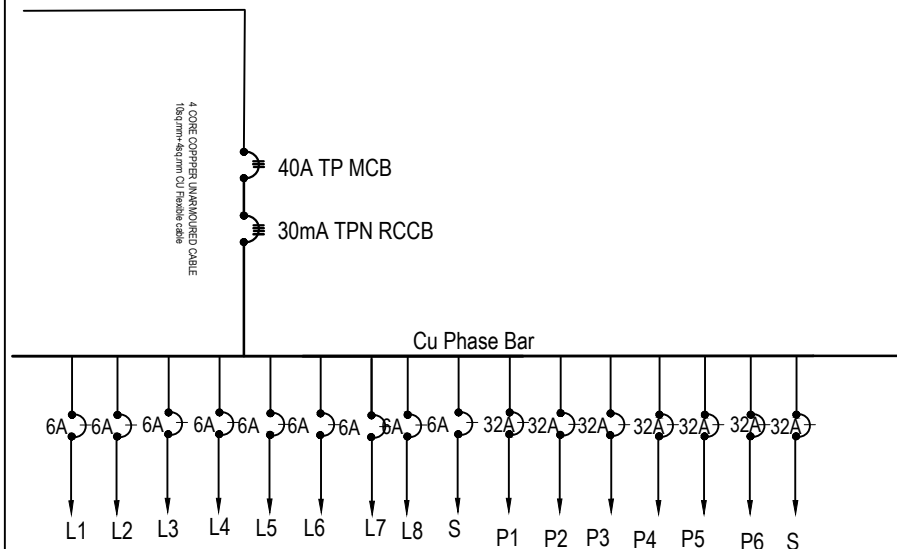
CLIENT	PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM		SHEET NO. 05	REVISION NO. R-00
 <div>Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal</div>	Prepare School Building Type Design for Big and Model School	ELECTRICAL DRAWING	A.S.K. ENGINEERING CONSULTANCY PVT.LTD.	ENGINEER:	STRUCTURE ER. :	DWG CODE. 3S18R-BIG & VALLEY	
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				DRAWN :	APPROVED:		
				SCALE : PAPER SIZE : A3	DATE: FEBRUARY, 2023		



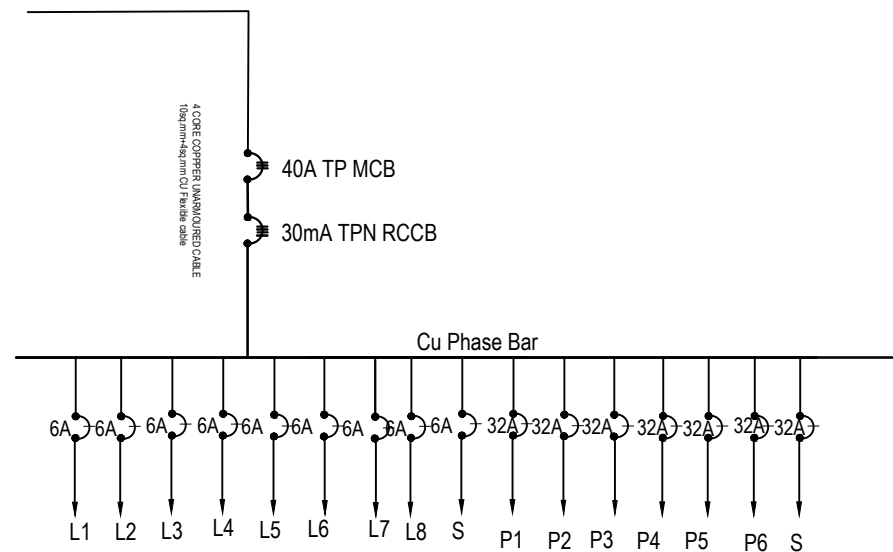
GROUND FLOOR L/P DISTRIBUTION SYSTEM (DB-G1)



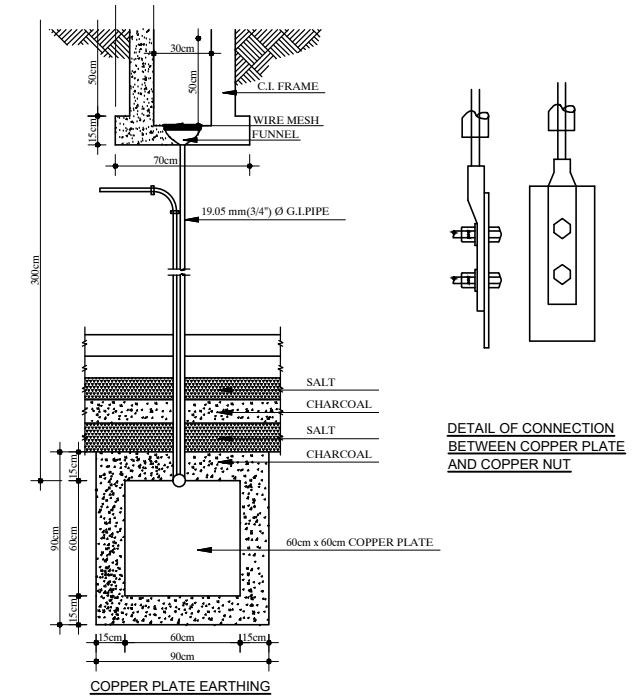
FIRST/SECOND FLOOR L/P DISTRIBUTION SYSTEM (DB-A1/2)



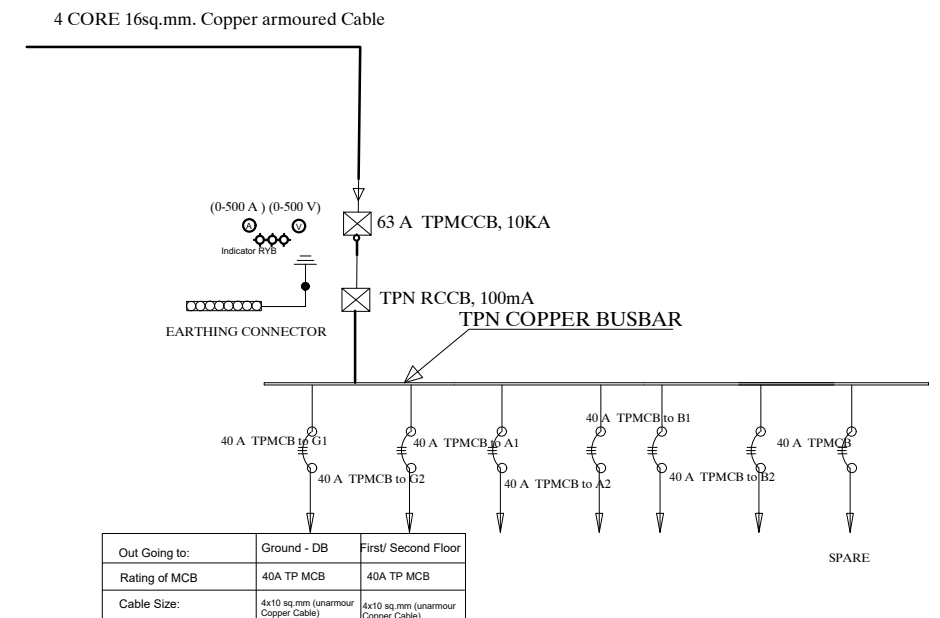
GROUND FLOOR L/P DISTRIBUTION SYSTEM (DB-G2)




FIRST/SECOND FLOOR L/P DISTRIBUTION SYSTEM (DB-B1/2)



EARTHING DETAILS



DETAILS OF Main -DB

CLIENT		PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM		SHEET NO. 06	REVISION NO. R-00	
	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Big and Model School	ELECTRICAL DRAWING	A.S.K. ENGINEERING CONSULTANCY PVT.LTD.	ENGINEER:		STRUCTURE ER. :		
					ARCHITECT:		CHECKED:		
					DRAWN :		APPROVED:		
					SCALE :	PAPER SIZE : A3	DATE: FEBRUARY, 2023		
								DWG CODE. 3S18R-BIG & VALLEY	

INSTALLATION CONSIDERATION						
* The switch box should be at 200mm from the door and 1250mm above floor.						
* General room socket height should be at 150mm above skirting wall.						
* Kitchen socket height should be at 450mm above kitchen top.						
* Toilet socket/switch should be at 1250mm above floor level and mirror light at 50 mm above mirror as per mirror size.						
* Exhaust fan should be at 600mm below slab.						
* Wall Light should be at 2100mm from floor level.						

CONDUIT SCHEDULE							
CABLE SIZES	PVC CON. DIA.	NO OF MAXIMUM CABLE AND PVC FRLS CONDUIT SIZES					
		16 mm Dia.	20 mm Dia.	25 mm Dia.	32 mm Dia.	40 mm Dia.	50 mm Dia.
1.5 SQ. MM/Equivalent		5	7	10	14	---	---
2.5 SQ. MM/Equivalent		3	5	8	12	---	---
4.0 SQ. MM/Equivalent		---	3	6	10	12	---
6.0 SQ. MM/Equivalent		---	2	4	8	9	---
10 SQ. MM/Equivalent		---	---	3	6	8	---
16 SQ. MM/Equivalent		---	---	2	3	4	8

CONVERSION TABLE												
INCHES	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	3-1/2	4	5	6
mm	16	20	25	32	40	50	65	80	90	100	130	150


* Unless and otherwise stated, all final circuits shall be wired with multistranded
CU wires in PVC Conduit and shall confirm to the following schedule:

WIRING SYSTEM		CABLE/CONDUCTOR SIZE
Air Conditioner/Heater/Range/Appliances		2x4.0 + 1x2.5 sq. mm copper wire
RJ - 45 Data / TV Point		CAT 6 4 pairs Data cable
RJ -11 Telecommunication point		CAT 6 4 pairs Data cable
Telephone Point		0.5mm dia PVC Insulated Tinned Cu Cable
Outdoor Gate/ Post Top/Street Lights/Flood Lights		3 x 2.5 sq. mm copper M/S wire
6 Amp switched outlet sockets		2x2.5 + 1x1.5 sq. mm copper M/S wire
16 Amp Power Sockets Points		2x4.0 + 1x2.5 sq. mm copper M/S wire
General Light Points (From DB to Switch Board)		2x2.5 + 1x1.5 sq. mm copper M/S wire
Looping of Light Points		2x1.5 + 1x1.0 sq. mm copper M/S wire

NOTE

- * Conduit Colors for Light/Power Circuit shall be Black, Security Wiring shall be Blue, Fire Alarm Wiring shall be Red, Low Voltage Circuits shall be Brown and UPS Circuits sahl be Green.
 - * L-N stands for Lighting Circuit, P-N for Power Circuit, AC-N for Air Condition, M/PC-N for Pump/Motor & Lp-N Light Outlet Circuit no.-N (Where N=1,2,3...)
 - * For Circuit no., see Distribution Details
 - * Unless and otherwise stated, all final circuits shall be wired up by PVC CU M/S Wire in PVC Conduit and shall confirm to the following schedule:
- | | | | | | | |
|---------------|-----|-----|-----|-----|----|----|
| Rating (Amp) | 6 | 10 | 20 | 32 | 40 | 63 |
| Wire (sq. mm) | 1.5 | 2.5 | 4.0 | 6.0 | 10 | 16 |
- * Unless and otherwise stated, maximum of 8 light points shall be wired in a final single lighting circuit where as maximum of 3 power socket outlet shall be wired in single power circuit.
 - * Unless and otherwise stated, all 16 A outlets with the same circuit no. shall be wired in ring circuit.
 - * Electrical drawings are schematical only, scale: NTS, use as shown purpose, do not mesaure directly.
 - * Contractor should coordinate with interior for exact location of fixtures
 - * Run seperate conduit for TV, TEL and PS wherever they are in matching places
 - * All the Kitchen/Bathroom Power Circuits should be feed by RCCB with 100 mA sensitivity – see schematic details
 - * All the cables and conductors shall be PVC insulated CU and shall confirm to the following color codes:

Neutral of AC 1/3 Phase	Black
Grounding/ Bounding/Earthing	Green
loop/common wire for 2 way switch	White
Live Phase A of 3 Phase	Red
Live Phase B of 3 Phase	Yellow
Live Phase C of 3 Phase	Blue

CLIENT		PROJECT TITLE	SHEET TITLE	CONSULTANT	PLANNING DESIGN TEAM		SHEET NO. 07	REVISION NO. R-00
	Government of Nepal Ministry of Education, Science & Technology Center for Education and Human Resource Development Sanothimi, Bhaktapur, Nepal	Prepare School Building Type Design for Big and Model School	ELECTRICAL DRAWING	A.S.K. ENGINEERING CONSULTANCY PVT.LTD.	ENGINEER:	STRUCTURE ER. :	DWG CODE. 3S18R-BIG & VALLEY	
					ARCHITECT:	CHECKED:		
					DRAWN :	APPROVED:		
					SCALE :	PAPER SIZE : A3	DATE: FEBRUARY, 2023	