

DETAILED STRUCTURAL DESIGN OF  
PROPOSED RESIDENTIAL BUILDING  
BINDHU PALAPPETI

DESIGNED

SHINE.C.CHINNAN(Ph.D),M.Tech(struct),M.B.A



**SHINE**

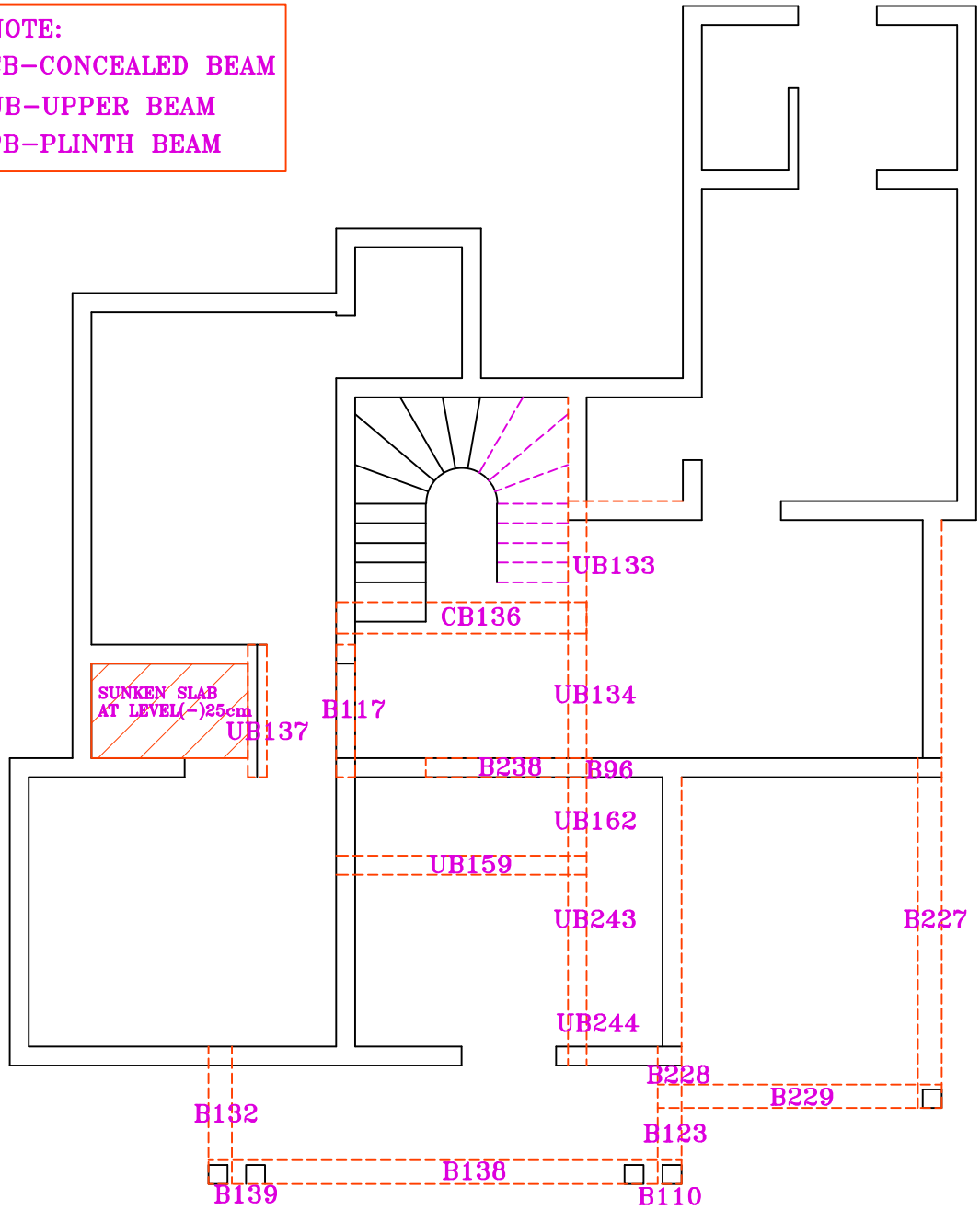
BUILDERS CONSULTANCY

KUNNAMKULAM,Ph-04885-226104, 228074.

Mob-9447730104, 9446030104

Email: shinebuilders@rediffmail.com

**NOTE:**  
**CB—CONCEALED BEAM**  
**UB—UPPER BEAM**  
**PB—PLINTH BEAM**



**DATE:**  
 24/01/2014

**CLIENT:** BINDHU PALAPPETI



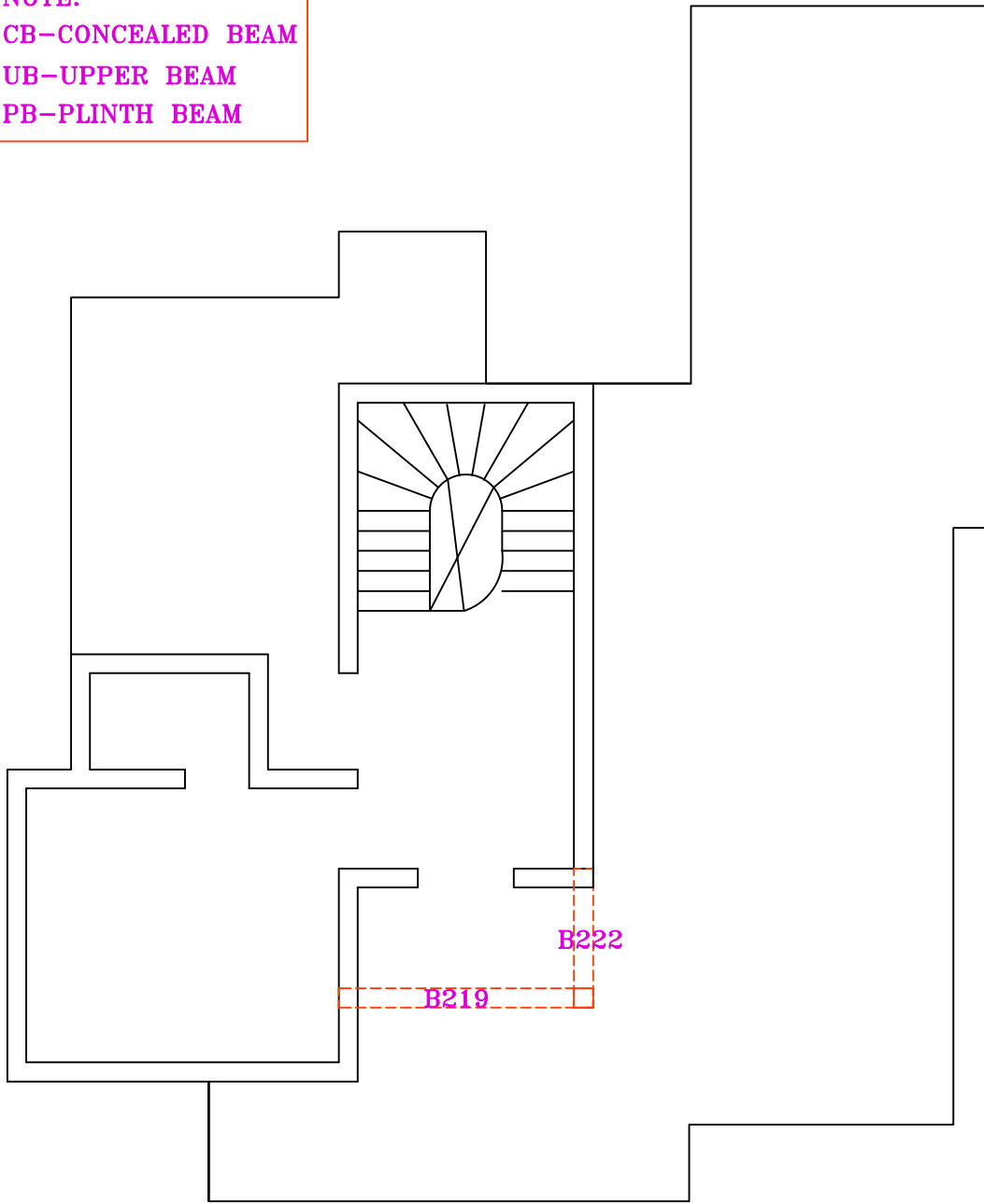
CALICUT ROAD, KUNNAMKULAM. 680503  
 THRISSUR.

**CHECKED BY:**  
 SHINE.C.CHINNAN (Ph.D)  
 M.Tech (struct), M.B.A

**TITLE:**  
 GROUND FLOOR BEAM LAYOUT

Ph : 04885 226104, 228074  
 Mob-9447730104, 9446030104  
 Email: shinebuilders@hotmail.com  
 www.shinebuilders.com

**NOTE:**  
CB-CONCEALED BEAM  
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M.Tech (struct), M.B.A

**CLIENT:** BINDHU PALAPPETI

**TITLE:**  
FIRST FLOOR BEAM LAYOUT

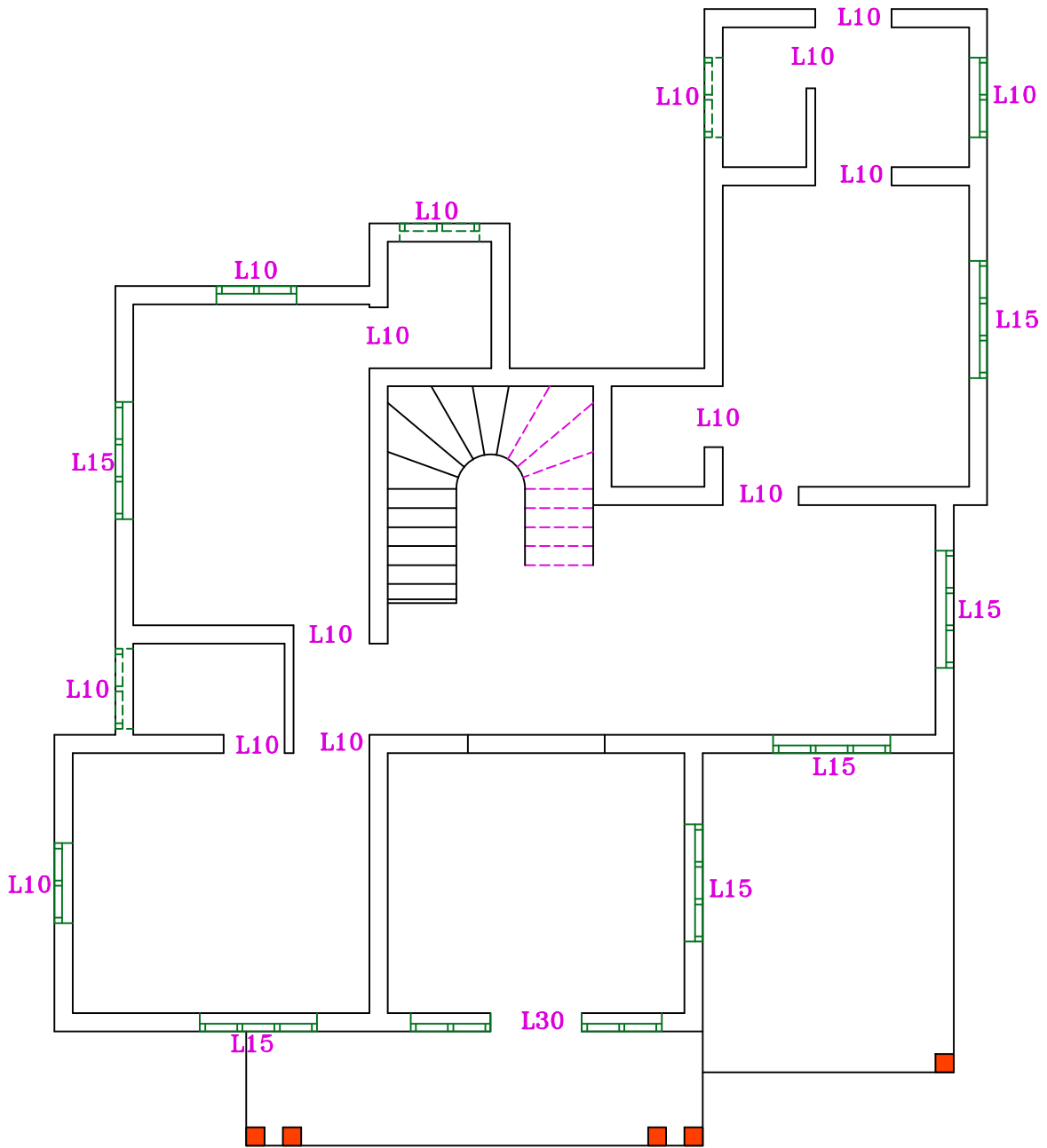


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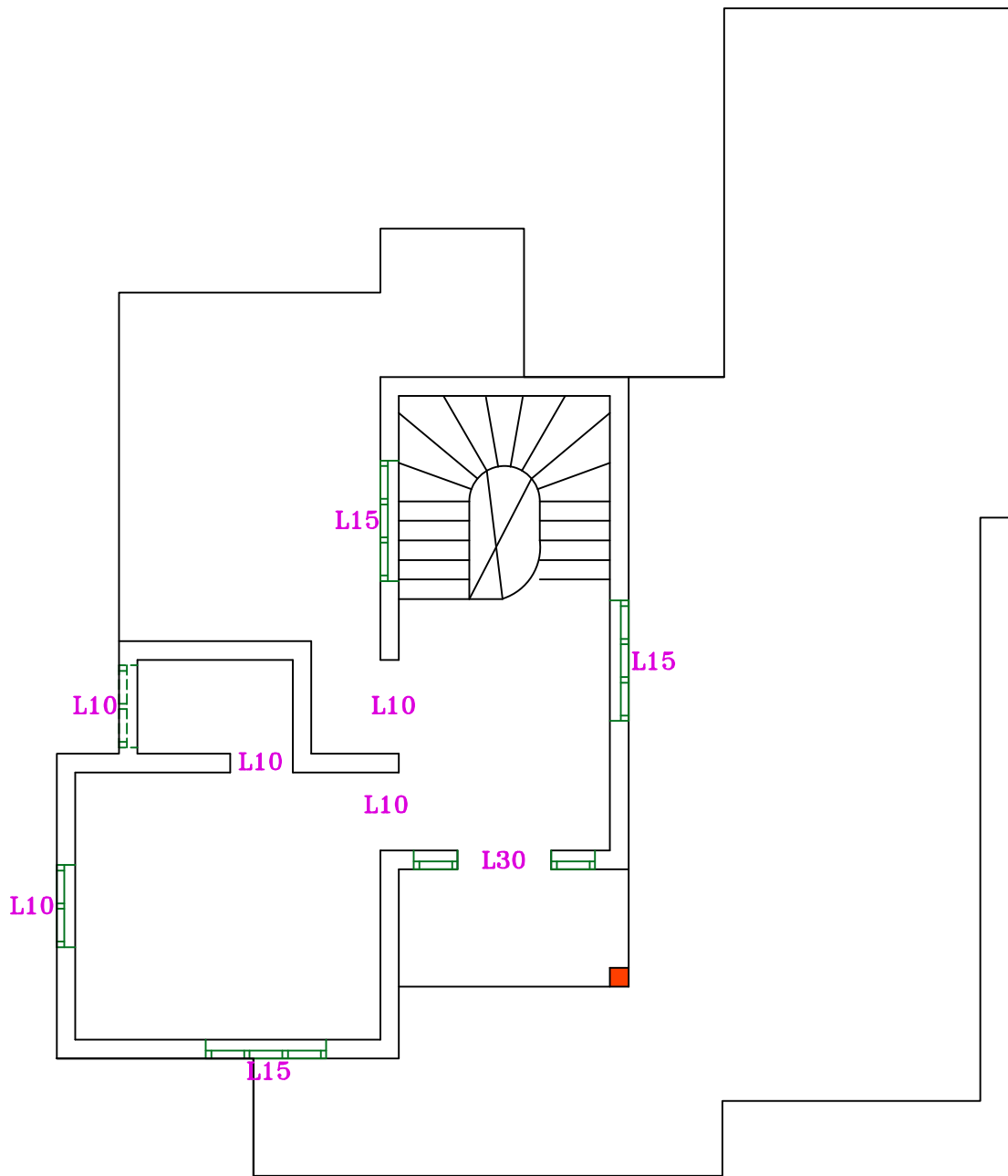
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TITLE:  
  
GROUND FLOOR LINTEL LAYOUT

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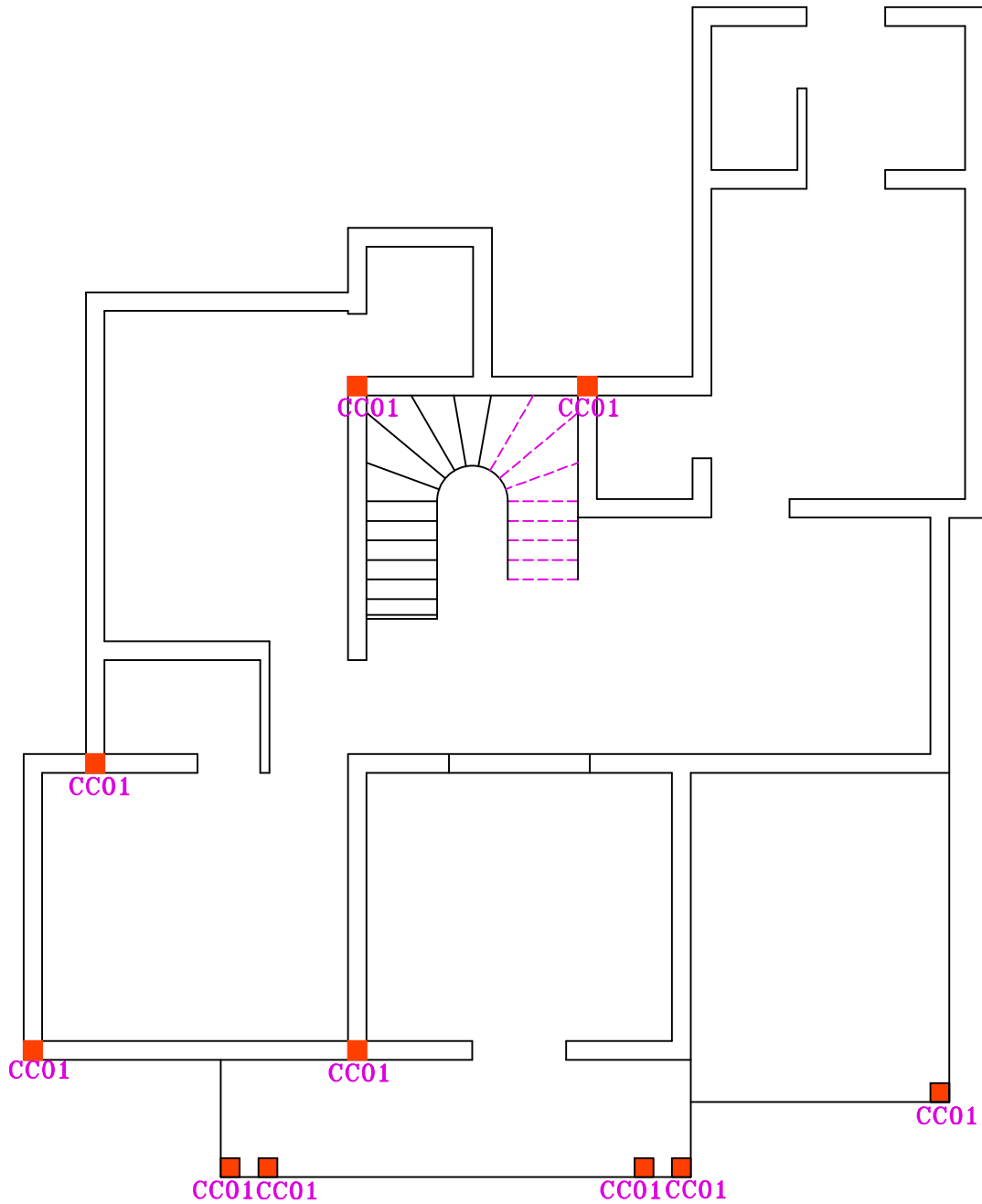


**TITLE:**  
FIRST FLOOR LINTEL LAYOUT

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TITLE:  
GROUND FLOOR COLUMN LAYOUT

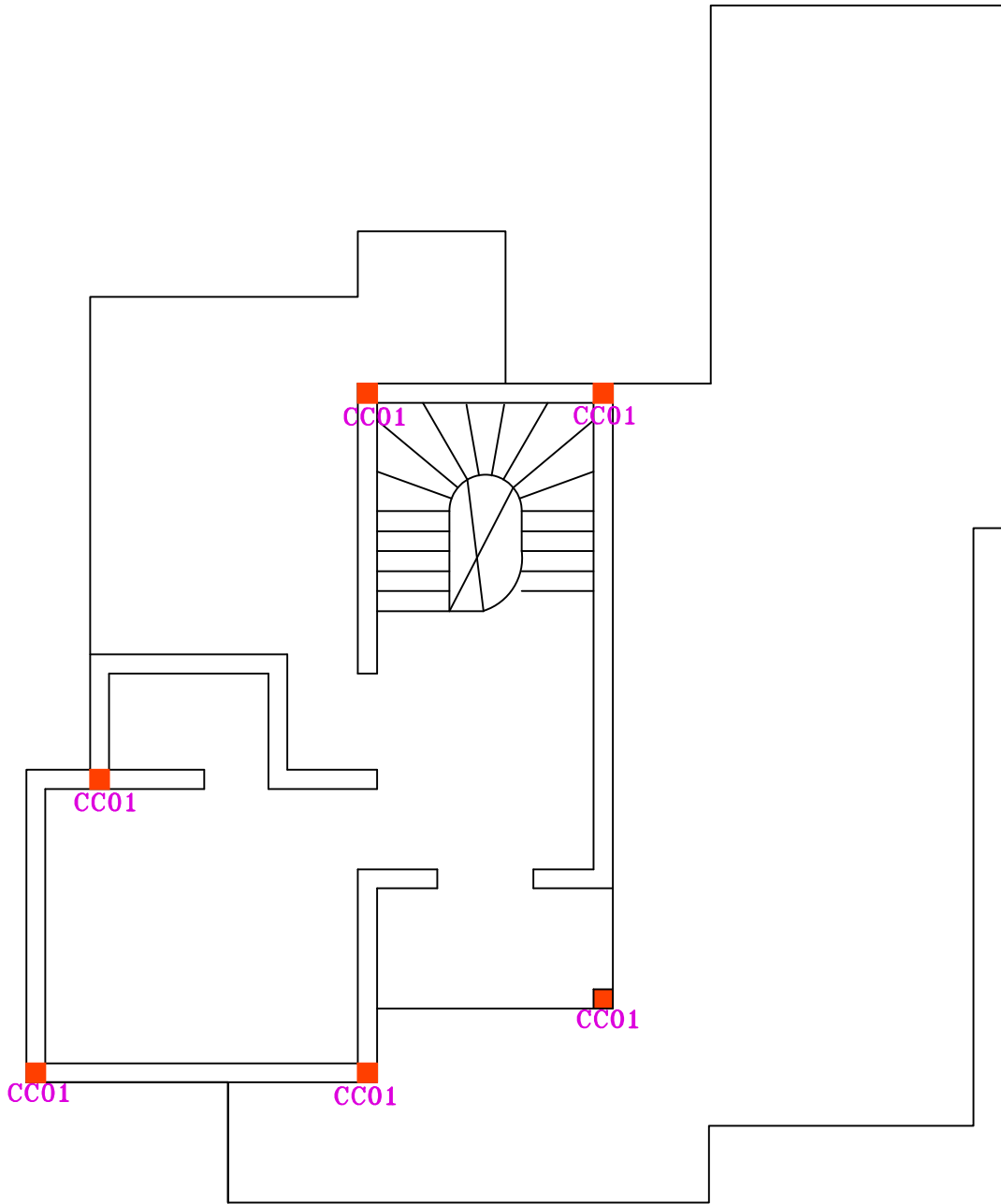
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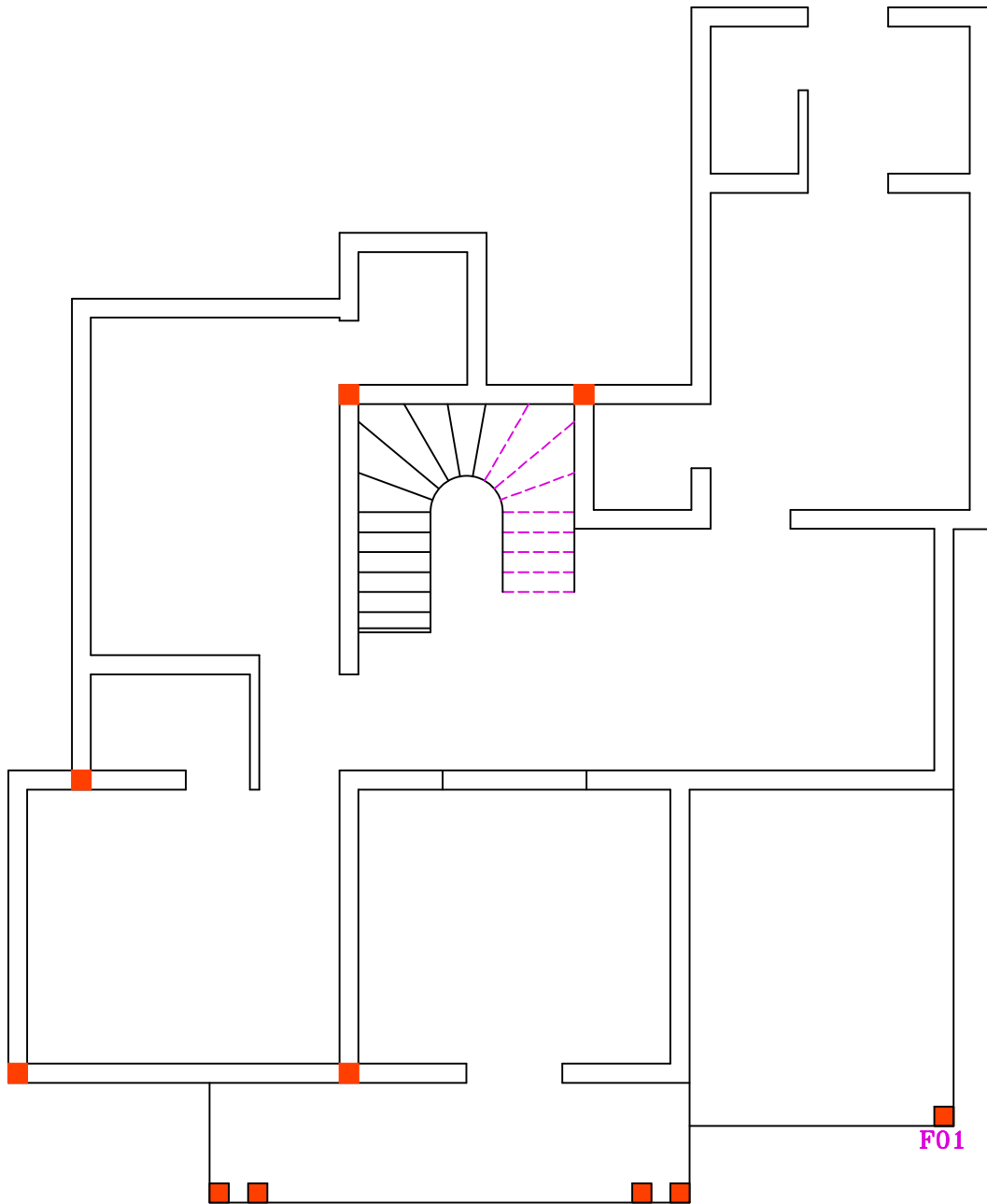
TITLE:  
FIRST FLOOR COLUMN LAYOUT



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TITLE:  
FOOTING LAYOUT

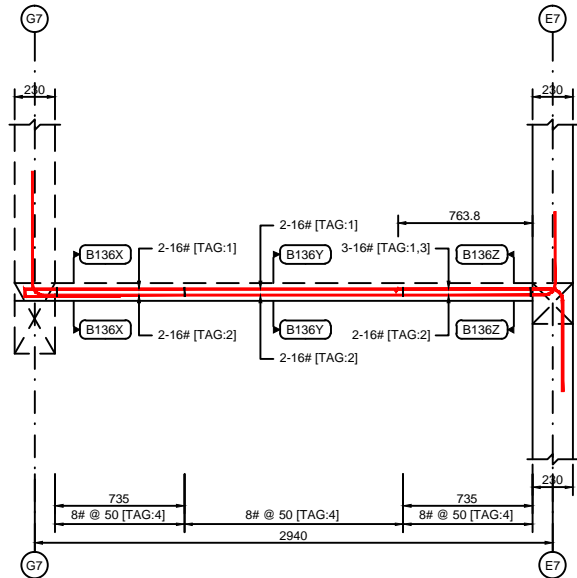


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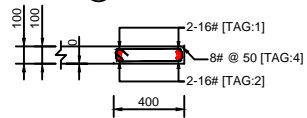
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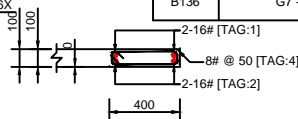


BAR BENDING SCHEDULE				
TAG	DIA. (mm.)	LENGTH (mm.)	NUMBERS	DIMENSION (mm.)
1	16	4214	2	A = 540 B = 42 C = 3050 D = 582
2	16	4048	2	E = 2968 A = 703 B = 473
3	16	1468	1	E = 582 A = 934
4	8	992	59	E = 350 A = 50

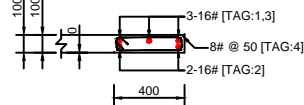
### DETAILS OF REINFORCEMENT FOR BEAMS



SECTION AT B136X



SECTION AT B136Y



SECTION AT B136Z

NOS	DESCRIPTION OF BEAMS	GRADE	SPAN	WIDTH	DEPTH	MAIN REINFORCEMENT						STIRRUPS						SIDE FACE			
						1ST SUPPORT		MID SUPPORT		2ND SUPPORT		1ST SUPPORT		MID SUPPORT		2ND SUPPORT					
						TOP	BOTTOM	TOP	BOTTOM	TOP	BOTTOM	SPACING	LEG	DIST.	SPACING	LEG	DIST.		SPACING	LEG	DIST.
B136	G7 - E7	M20	2825	400	100	2-16#	2-16#	2-16#	2-16#	3-16#	2-16#	8# @ 50	2	735	8# @ 50	2	1355	8# @ 50	2	735	NIL

PROPOSED RESIDENTIAL BUILDING  
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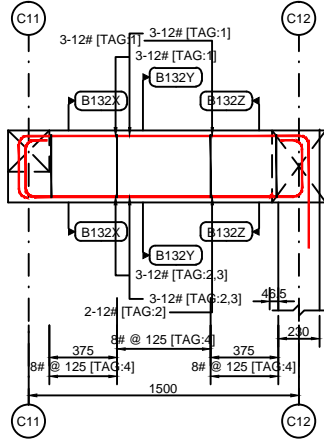
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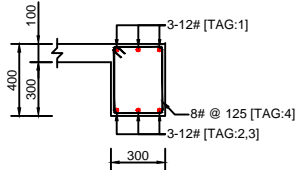
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Note: Reinforcement shall be verified before concreting



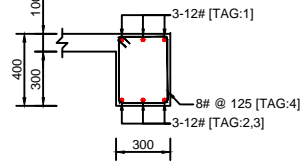
BAR BENDING SCHEDULE					
TAG	DIA. (mm.)	LENGTH (mm.)	NUMBERS	DIMENSION (mm.)	
1	12	2628	3		A = 50 B = 344 C = 1610 D = 624
2	12	2398	2		A = 118 B = 313 C = 1536 D = 313 E = 118
3	12	1716	1		E = 313 A = 118 B = 1357
4	8	1392	14		E = 250 A = 350

### DETAILS OF REINFORCEMENT FOR BEAMS

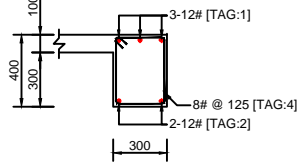


NOS	DESCRIPTION OF BEAMS	GRADE	SPAN	WIDTH	DEPTH	MAIN REINFORCEMENT						STIRRUPS						SIDE FACE			
						1ST SUPPORT		MID SUPPORT		2ND SUPPORT		1ST SUPPORT		MID SUPPORT		2ND SUPPORT					
						TOP	BOTTOM	TOP	BOTTOM	TOP	BOTTOM	SPACING	LEG	DIST.	SPACING	LEG	DIST.		SPACING	LEG	DIST.
B132	C11 - C12	M20	1385	300	400	3-12#	3-12#	3-12#	3-12#	3-12#	2-12#	8# @ 125	2	375	8# @ 125	2	635	8# @ 125	2	375	NIL

SECTION AT B132X



SECTION AT B132Y



SECTION AT B132Z

Note: Reinforcement shall be verified before concreting

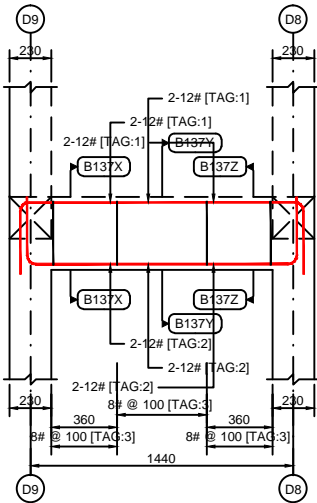
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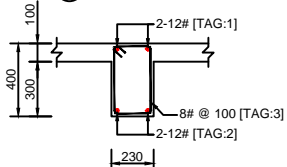
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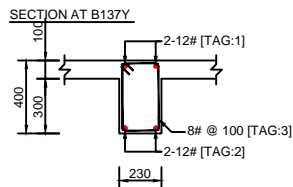
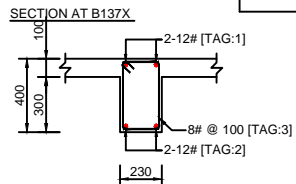


BAR BENDING SCHEDULE					
TAG	DIA. (mm.)	LENGTH (mm.)	NUMBERS	DIMENSION (mm.)	
1	12	2266	2		E = 1550 A = 394
2	12	2142	2		E = 1476 A = 369
3	8	1252	12		E = 180 A = 350

### DETAILS OF REINFORCEMENT FOR BEAMS



NOS	DESCRIPTION OF BEAMS	GRADE	SPAN	WIDTH	DEPTH	MAIN REINFORCEMENT						STIRRUPS						SIDE FACE			
						1ST SUPPORT		MID SUPPORT		2ND SUPPORT		1ST SUPPORT		MID SUPPORT		2ND SUPPORT					
						TOP	BOTTOM	TOP	BOTTOM	TOP	BOTTOM	SPACING	LEG	DIST.	SPACING	LEG	DIST.		SPACING	LEG	DIST.
B137	D9 - D8	M20	1210	230	400	2-12#	2-12#	2-12#	2-12#	2-12#	2-12#	8# @ 100	2	360	8# @ 100	2	490	8# @ 100	2	360	NIL



SECTION AT B137Z

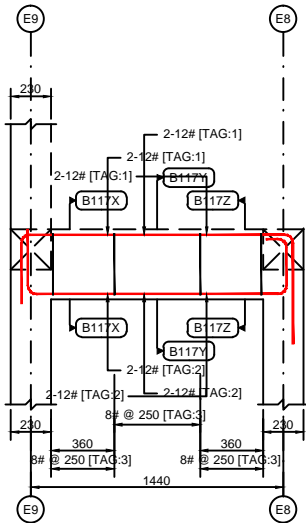
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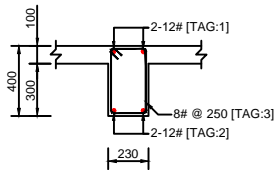
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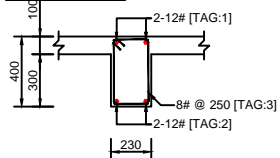


BAR BENDING SCHEDULE				
TAG	DIA. (mm.)	LENGTH (mm.)	NUMBER	DIMENSION (mm.)
1	12	2496	2	E = 1550 A = 394 B = 624
2	12	2276	2	A = 369 B = 1476 C = 313 D = 118
3	8	1252	5	E = 180 A = 350

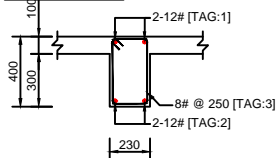
### DETAILS OF REINFORCEMENT FOR BEAMS



SECTION AT B117X



SECTION AT B117Y



SECTION AT B117Z

NOS	DESCRIPTION OF BEAMS	GRADE	SPAN	WIDTH	DEPTH	MAIN REINFORCEMENT						STIRRUPS						SIDE FACE			
						1ST SUPPORT		MID SUPPORT		2ND SUPPORT		1ST SUPPORT		MID SUPPORT		2ND SUPPORT					
						TOP	BOTTOM	TOP	BOTTOM	TOP	BOTTOM	SPACING	LEG	DIST.	SPACING	LEG	DIST.		SPACING	LEG	DIST.
B117	E9 - E8	M20	1210	230	400	2-12#	2-12#	2-12#	2-12#	2-12#	2-12#	8# @ 250	2	360	8# @ 250	2	490	8# @ 250	2	360	NIL

PROPOSED RESIDENTIAL BUILDING FOR BINDHU PALAPPETI

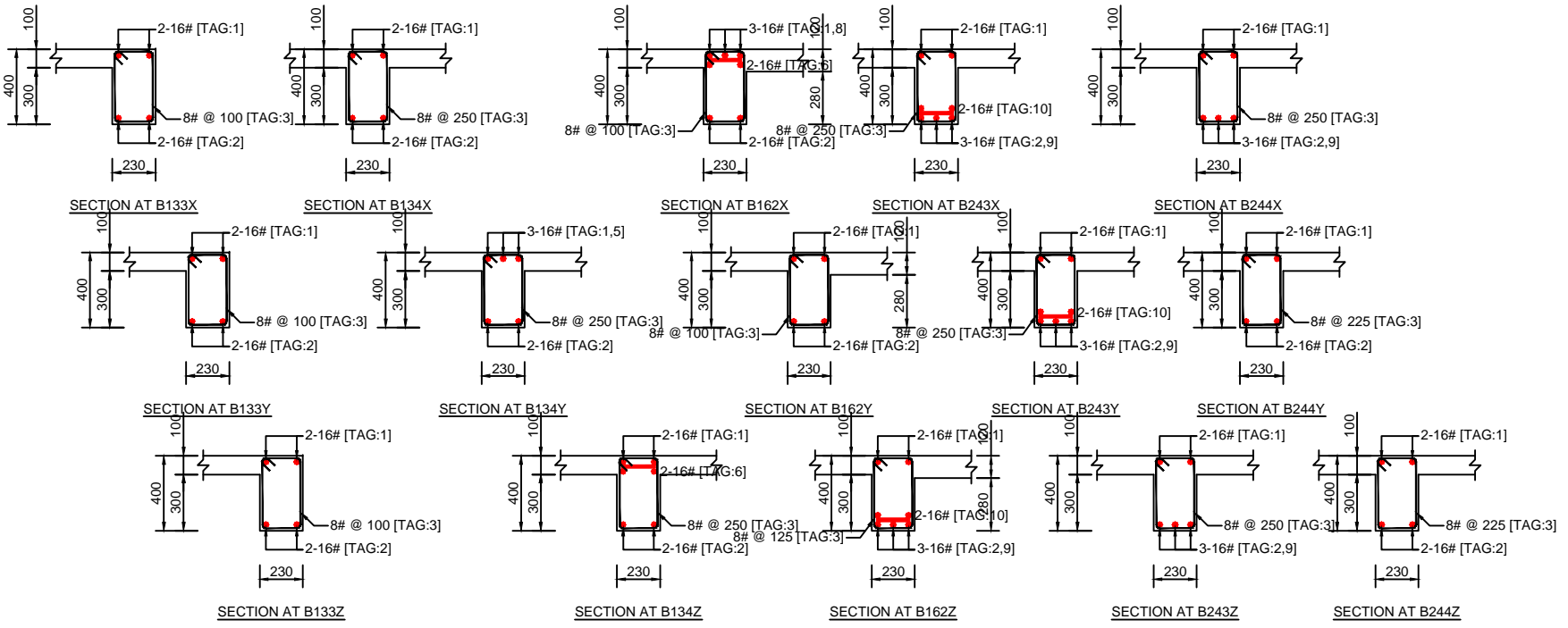
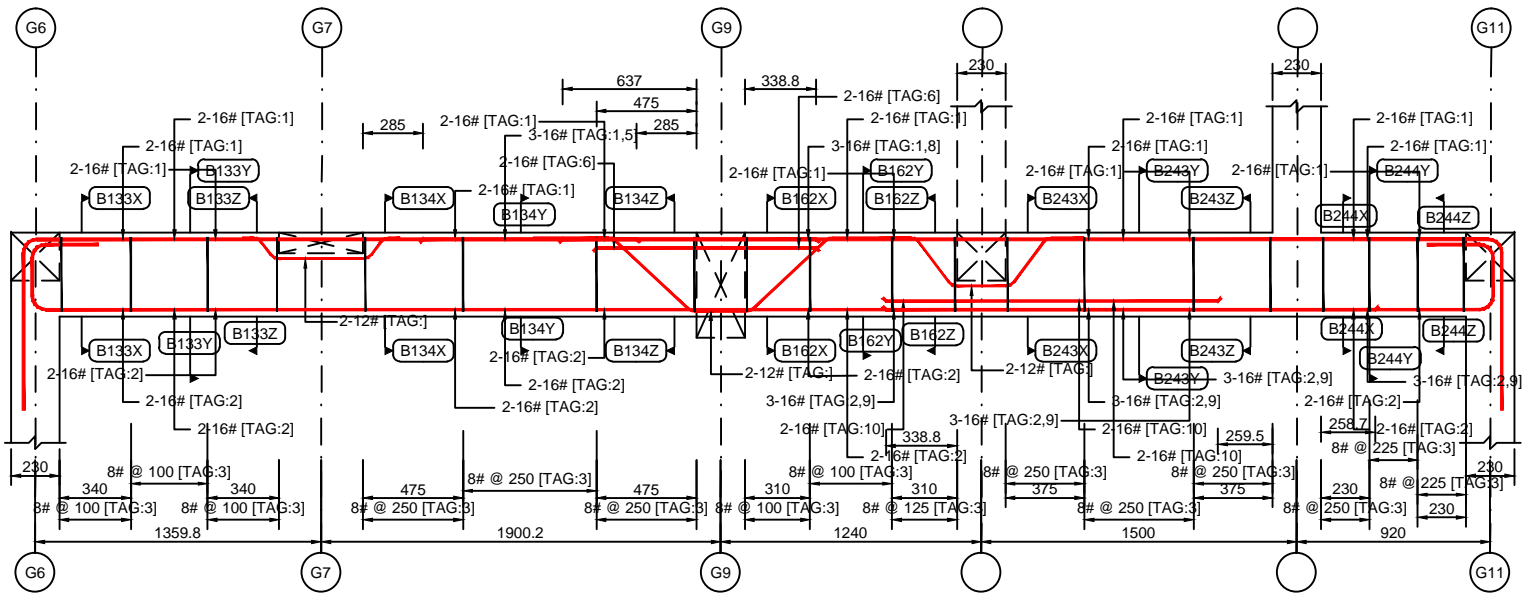
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







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BAR BENDING SCHEDULE				
TAG	DIA. (mm.)	LENGTH (mm.)	NUMBERS	DIMENSION (mm.)
1	16	8558	2	 E = 7030 A = 812
2	16	8194	2	 A = 314 B = 309 C = 6948 D = 309 E = 314
3	8	1252	46	 E = 180 A = 350
4	12	850	4	 A = 75 B = 125 C = 450 D = 125 E = 75
5	16	1015	1	 E = 1015
6	16	1044	2	 E = 1044
7	12	2056	4	 A = 375 B = 513 C = 280 D = 513 E = 375
8	16	1206	1	 E = 1206
9	16	2327	1	 E = 2327
10	16	1579	2	 E = 1579
11	12	1200	4	 A = 172 B = 288 C = 280 D = 288 E = 172

### DETAILS OF REINFORCEMENT FOR BEAMS

NOS	DESCRIPTION OF BEAMS	GRADE	SPAN	WIDTH	DEPTH	MAIN REINFORCEMENT						STIRRUPS						SIDE FACE			
						1ST SUPPORT		MID SUPPORT		2ND SUPPORT		1ST SUPPORT		MID SUPPORT		2ND SUPPORT					
						TOP	BOTTOM	TOP	BOTTOM	TOP	BOTTOM	SPACING	LEG	DIST.	SPACING	LEG	DIST.		SPACING	LEG	DIST.
B133	G6 - G7	M20	1244.8	230	400	2-16#	2-16#	2-16#	2-16#	2-16#	2-16#	8# @ 100	2	340	8# @ 100	2	564.8	8# @ 100	2	340	NIL
B134	G7 - G9	M20	1900.2	230	400	2-16#	2-16#	3-16#	2-16#	2-16# 2-16#	2-16#	8# @ 250	2	475	8# @ 250	2	950.2	8# @ 250	2	475	NIL
B162	G9 -	M20	1240	230	400	3-16# 2-16#	2-16#	2-16#	2-16#	3-16# 2-16#	2-16#	8# @ 100	2	310	8# @ 100	2	620	8# @ 125	2	310	NIL
B243	-	M20	1500	230	400	2-16#	3-16# 2-16#	2-16#	3-16# 2-16#	2-16#	3-16#	8# @ 250	2	375	8# @ 250	2	750	8# @ 250	2	375	NIL
B244	- G11	M20	805	230	400	2-16#	3-16#	2-16#	2-16#	2-16#	2-16#	8# @ 250	2	230	8# @ 225	2	345	8# @ 225	2	230	NIL

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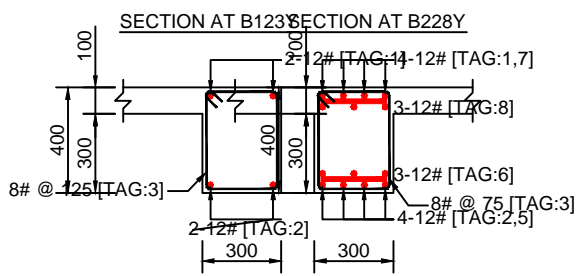
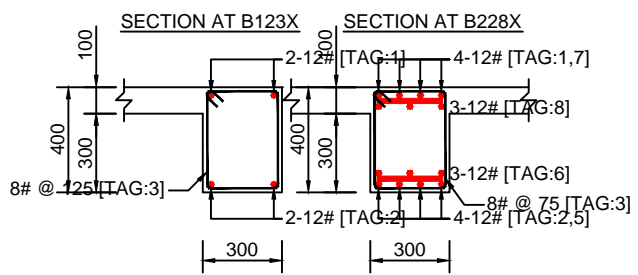
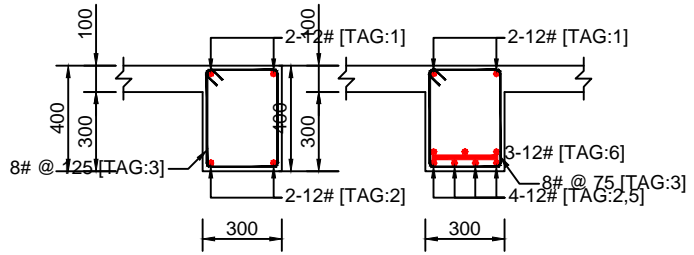
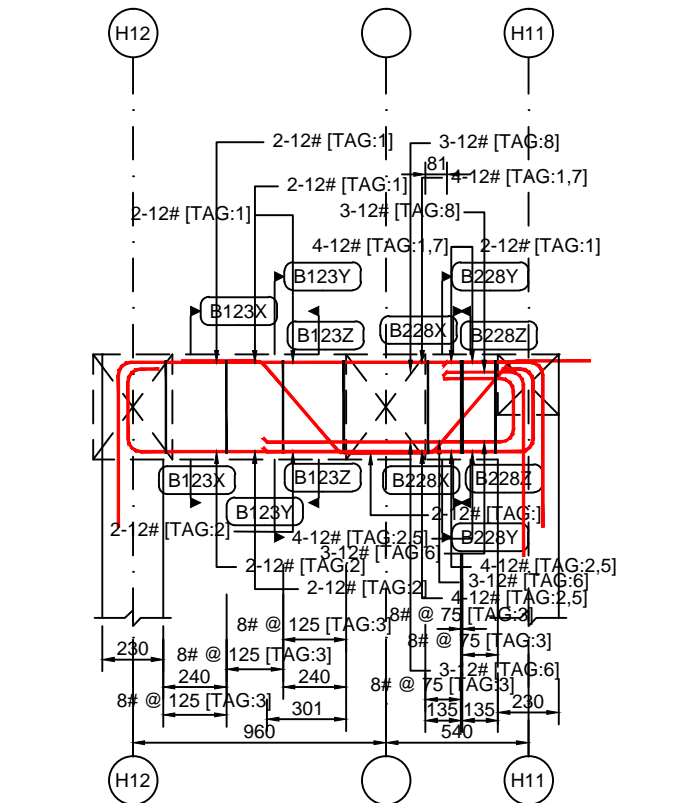
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




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SECTION AT B123Z SECTION AT B228Z

BAR BENDING SCHEDULE					
TAG	DIA. (mm.)	LENGTH (mm.)	NUMBERS	DIMENSION (mm.)	
1	12	2786	2		E = 1610 A = 624
2	12	2398	2		A = 118 B = 313 C = 1536 D = 313 E = 118
3	8	1392	12		E = 250 A = 350
4	12	1872	4		A = 300 B = 461 C = 350 D = 461 E = 300
5	12	1368	2		E = 313 A = 1009 B = 118
6	12	1368	3		E = 239 A = 935 B = 266
7	12	952	2		E = 624 A = 364
8	12	952	3		E = 698 A = 290

### DETAILS OF REINFORCEMENT FOR BEAMS

NOS	DESCRIPTION OF BEAMS	GRADE	SPAN	WIDTH	DEPTH	MAIN REINFORCEMENT						STIRRUPS									SIDE FACE
						1ST SUPPORT		MID SUPPORT		2ND SUPPORT		1ST SUPPORT			MID SUPPORT			2ND SUPPORT			
						TOP	BOTTOM	TOP	BOTTOM	TOP	BOTTOM	SPACING	LEG	DIST.	SPACING	LEG	DIST.	SPACING	LEG	DIST.	
B123	H12 -	M20	845	300	400	2-12#	2-12#	2-12#	2-12#	2-12#	2-12#	8# @ 125	2	240	8# @ 125	2	365	8# @ 125	2	240	NIL
B228	- H11	M20	425	300	400	2-12#	4-12# 3-12#	4-12# 3-12#	4-12# 3-12#	4-12# 3-12#	4-12# 3-12#	8# @ 75	2	135	8# @ 75	2	155	8# @ 75	2	135	NIL

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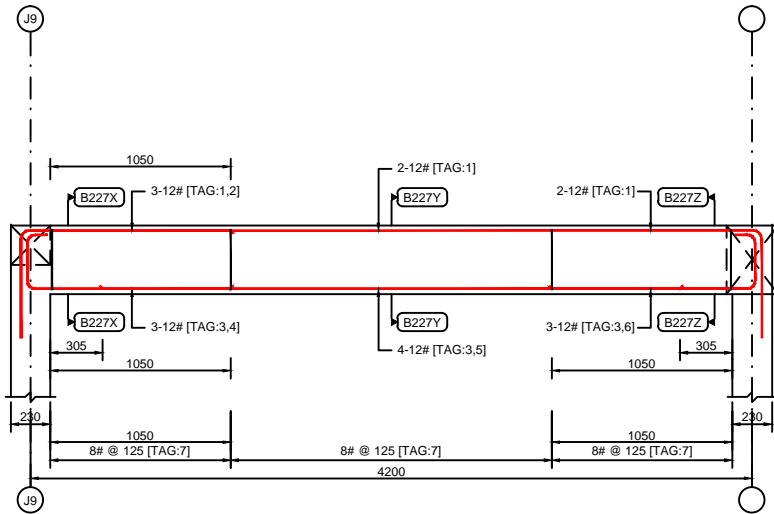
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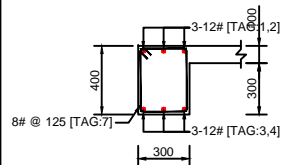
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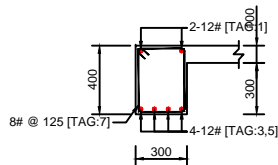


BAR BENDING SCHEDULE					
TAG	DIA. (mm.)	LENGTH (mm.)	NUMBERS	DIMENSION (mm.)	
1	12	5486	2		E = 4310 A = 624
2	12	1808	1		E = 1220 A = 624
3	12	5098	2		A = 118 B = 313 C = 4236 D = 313 E = 118
4	12	1542	1		E = 313 A = 118 B = 1183
5	12	3360	2		E = 3360
6	12	1542	1		E = 313 A = 1183 B = 118
7	8	1392	32		E = 250 A = 350

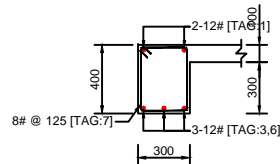
DETAILS OF REINFORCEMENT FOR BEAMS



SECTION AT B227X



SECTION AT B227Y



SECTION AT B227Z

NOS	DESCRIPTION OF BEAMS	GRADE	SPAN	WIDTH	DEPTH	MAIN REINFORCEMENT						STIRRUPS						SIDE FACE			
						1ST SUPPORT		MID SUPPORT		2ND SUPPORT		1ST SUPPORT			MID SUPPORT				2ND SUPPORT		
						TOP	BOTTOM	TOP	BOTTOM	TOP	BOTTOM	SPACING	LEG	DIST.	SPACING	LEG	DIST.		SPACING	LEG	DIST.
B227	J9 -	M20	3970	300	400	3-12#	3-12#	2-12#	4-12#	2-12#	3-12#	8# @ 125	2	1050	8# @ 125	2	1870	8# @ 125	2	1050	NIL

Note: Reinforcement shall be verified before concreting

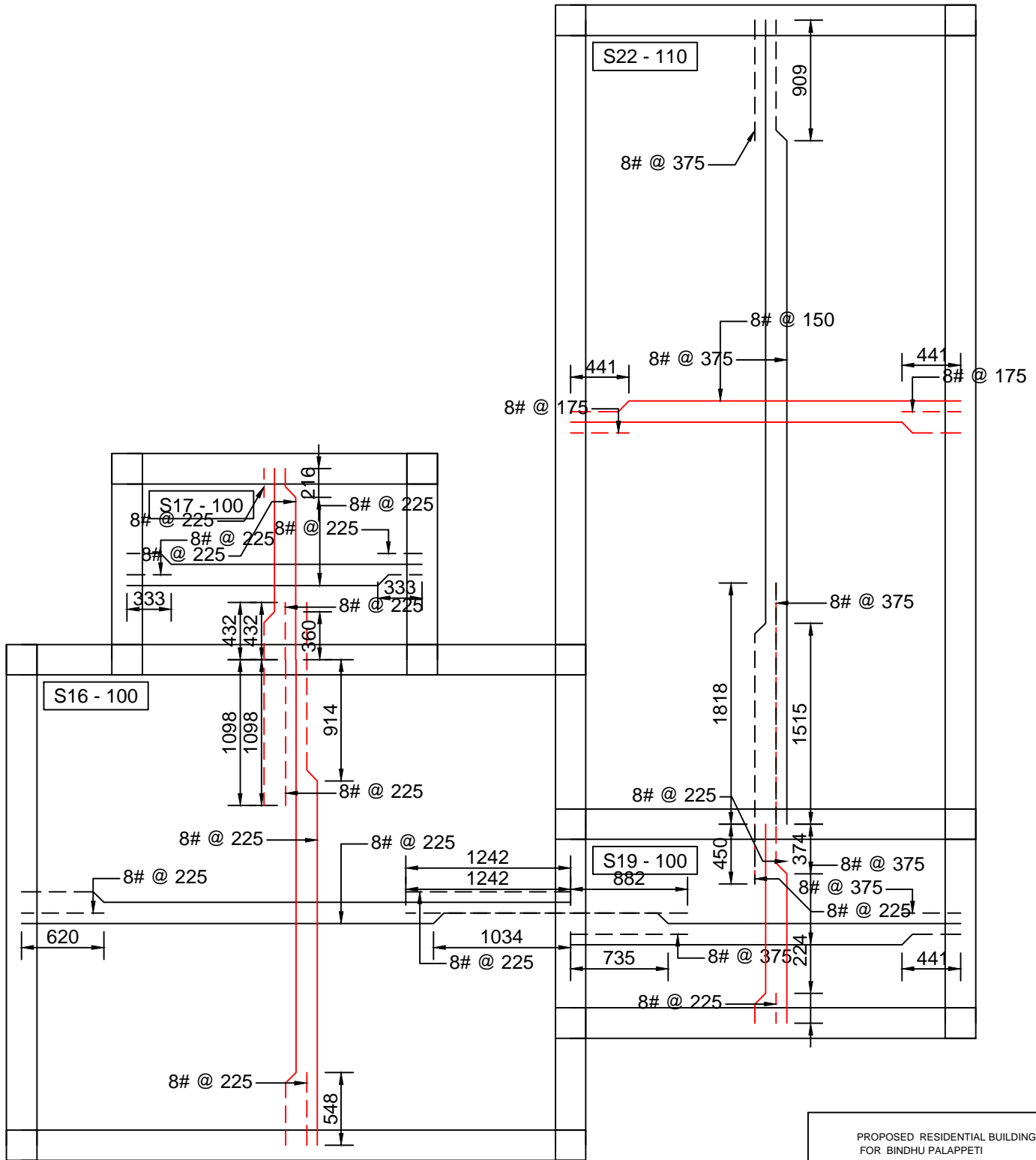
PROPOSED RESIDENTIAL BUILDING FOR BINDHU PALAPPETTI

DESIGNED BY:  
SHINE.C.CHINNAN(Ph.D),M.Tech(struct),M.B.A

**SHINE**  
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# FIRST FLOOR SLAB DETAILS

Note: Reinforcement shall be verified before concreting

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FOR BINDHU PALAPPETI

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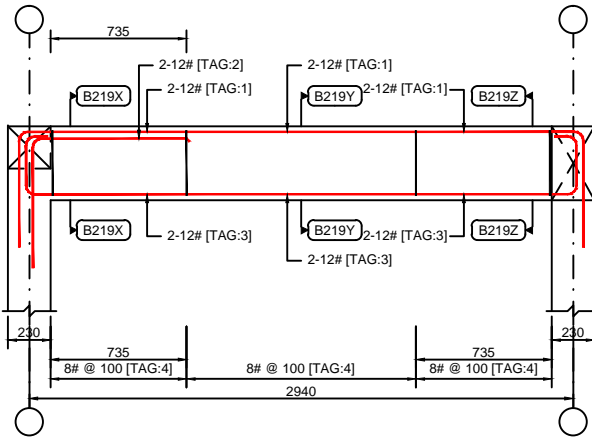
CALICUT ROAD,KUNNAMKULAM.680503

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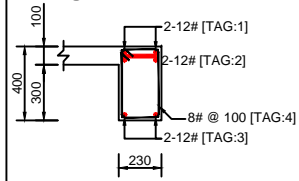
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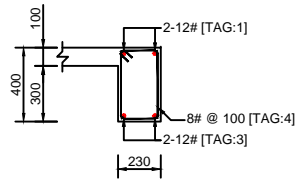


BAR BENDING SCHEDULE				
TAG	DIA. (mm.)	LENGTH (mm.)	NUMBERS	DIMENSION (mm.)
1	12	4226	2	E = 3050 A = 624
2	12	1493	2	E = 831 A = 698
3	12	3838	2	A = 118 B = 313 C = 2976 D = 313 E = 118
4	8	1252	28	E = 180 A = 350

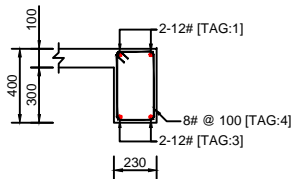
### DETAILS OF REINFORCEMENT FOR BEAMS



SECTION AT B219X



SECTION AT B219Y



SECTION AT B219Z

NOS	DESCRIPTION OF BEAMS	GRADE	SPAN	WIDTH	DEPTH	MAIN REINFORCEMENT						STIRRUPS						SIDE FACE			
						1ST SUPPORT		MID SUPPORT		2ND SUPPORT		1ST SUPPORT		MID SUPPORT		2ND SUPPORT					
						TOP	BOTTOM	TOP	BOTTOM	TOP	BOTTOM	SPACING	LEG	DIST.	SPACING	LEG	DIST.		SPACING	LEG	DIST.
B219	-	M20	2710	230	400	2-12#	2-12#	2-12#	2-12#	2-12#	2-12#	8# @ 100	2	735	8# @ 100	2	1240	8# @ 100	2	735	NIL

PROPOSED RESIDENTIAL BUILDING  
FOR BINDHU PALAPPETI

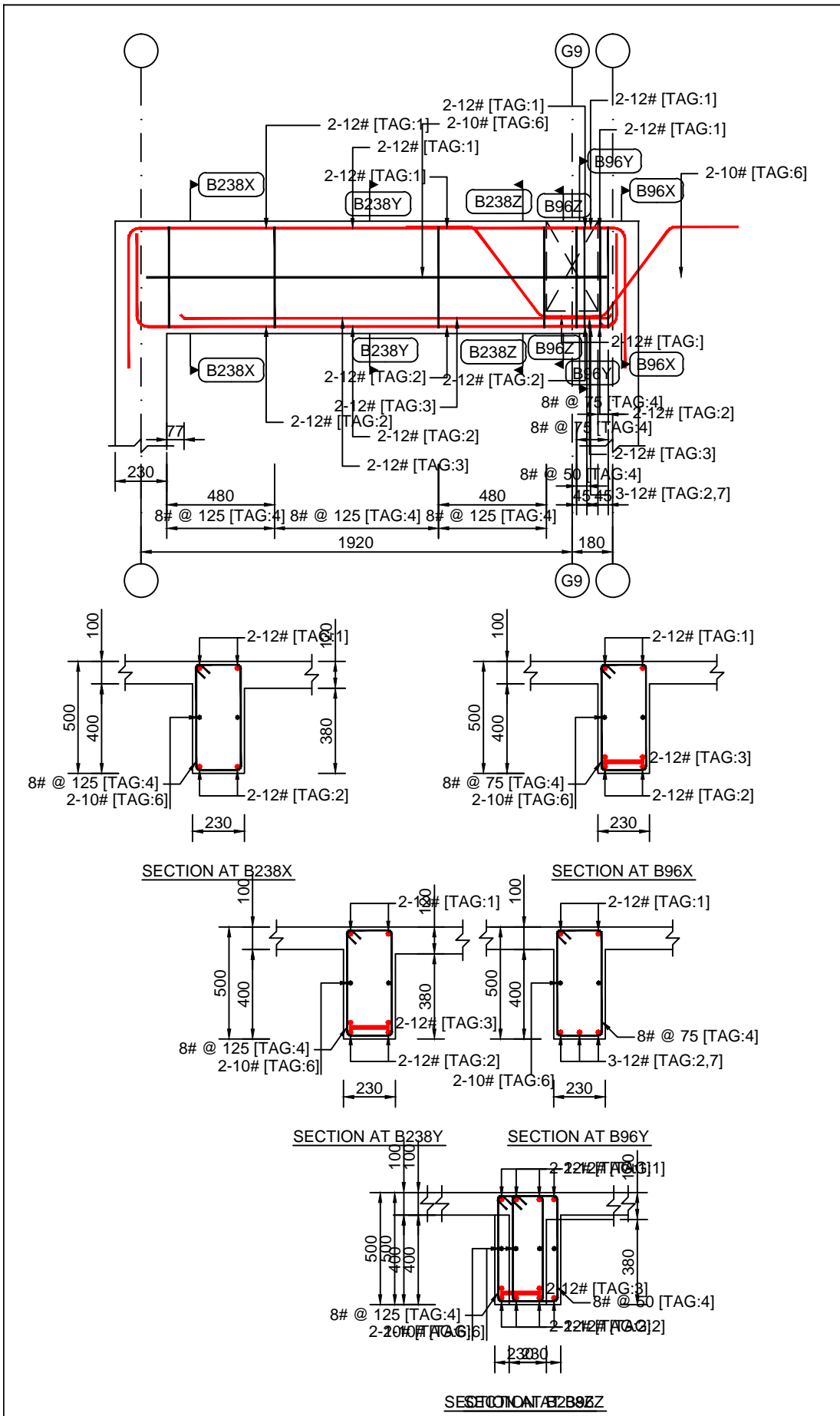
DESIGNED BY:  
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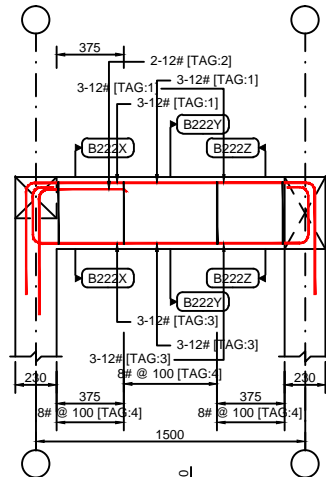
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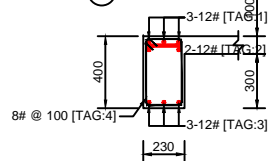
Note: Reinforcement shall be verified before concreting



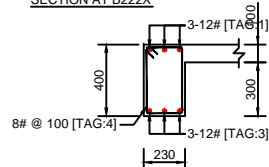


BAR BENDING SCHEDULE					
TAG	DIA (mm.)	LENGTH (mm.)	NUMBERS	DIMENSION (mm.)	
1	12	2786	3		E = 1610 A = 624
2	12	1133	2		E = 471 A = 698
3	12	2398	3		A = 118 B = 313 C = 1536 D = 313 E = 118
4	8	1252	13		E = 180 A = 350

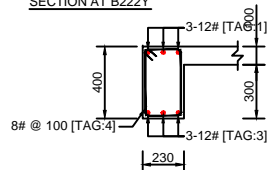
### DETAILS OF REINFORCEMENT FOR BEAMS



SECTION AT B222X



SECTION AT B222Y



SECTION AT B222Z

NOS	DESCRIPTION OF BEAMS	GRADE	SPAN	WIDTH	DEPTH	MAIN REINFORCEMENT						STIRRUPS						SIDE FACE			
						1ST SUPPORT		MID SUPPORT		2ND SUPPORT		1ST SUPPORT			MID SUPPORT				2ND SUPPORT		
						TOP	BOTTOM	TOP	BOTTOM	TOP	BOTTOM	SPACING	LEG	DIST.	SPACING	LEG	DIST.		SPACING	LEG	DIST.
B222	-	M20	1270	230	400	3-12#	3-12#	3-12#	3-12#	3-12#	3-12#	8# @ 100	2	375	8# @ 100	2	520	8# @ 100	2	375	NIL

Note: Reinforcement shall be verified before concreting

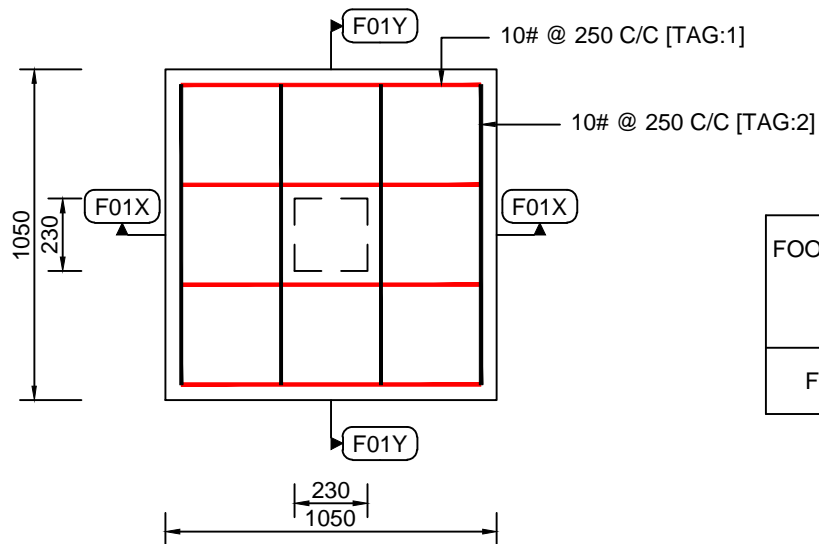
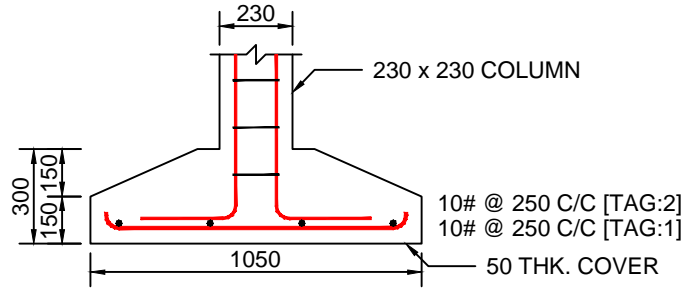
PROPOSED RESIDENTIAL BUILDING  
FOR BINDHU PALAPPETI

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FOOTING F01 - PLAN

BAR BENDING SCHEDULE					
TAG	DIA. (mm.)	LENGTH (mm.)	NUMBERS	DIMENSION (mm.)	
1	10	990	4		E = 950 A = 50
2	10	990	4		E = 950 A = 50

DETAILS OF REINFORCEMENT FOR ISOLATED FOOTINGS

FOOTING	DESCRIPTION OF FOOTING	GRADE	MAIN STEEL		SECONDARY STEEL	
			GRADE	SPACING	GRADE	SPACING
F01		M20	Fe415	10# @ 250 C/C	Fe415	10# @ 250 C/C

NOTE :  
PROVIDE PCC (1:3:6) THICKNESS 10 cm  
AND PROJECTION OF 10 cm FOR EACH  
SIDES OF THE FOOTING

Note: Reinforcement shall be verified before concreting

PROPOSED RESIDENTIAL BUILDING  
FOR BINDHU PALAPPETI

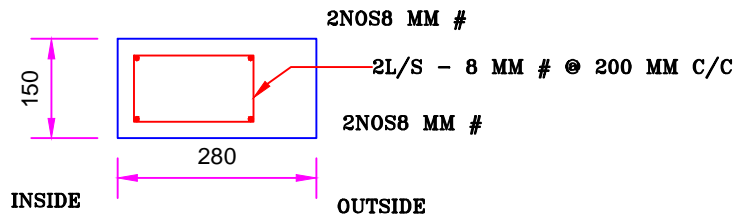
DESIGNED BY:  
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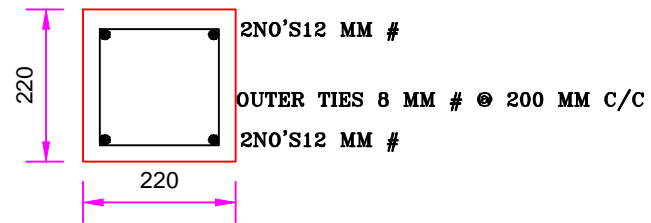
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Mob-9447730104, 9446030104  
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## OUTER BELT

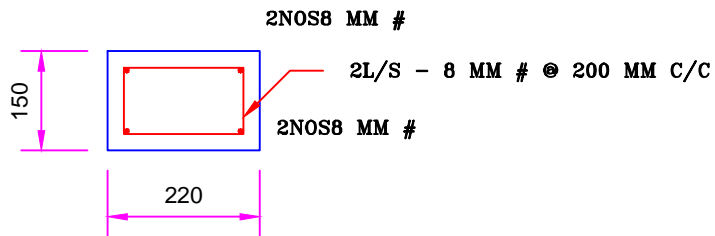


## COLUMN CONNECTED TO BELT



## COLUMN CC01

## INNER BELT



Note: Reinforcement shall be verified before concreting

PROPOSED RESIDENTIAL BUILDING FOR  
BINDHU PALAPPETI

DESIGNED BY: SHINE.C.CHINNAN.Ph.D.M.Tech(struct).M.B.A



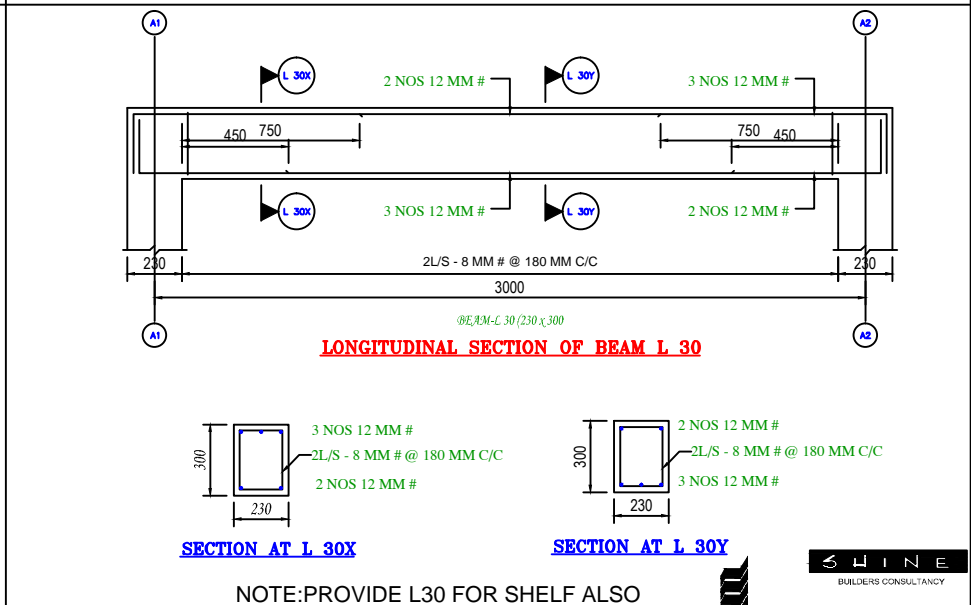
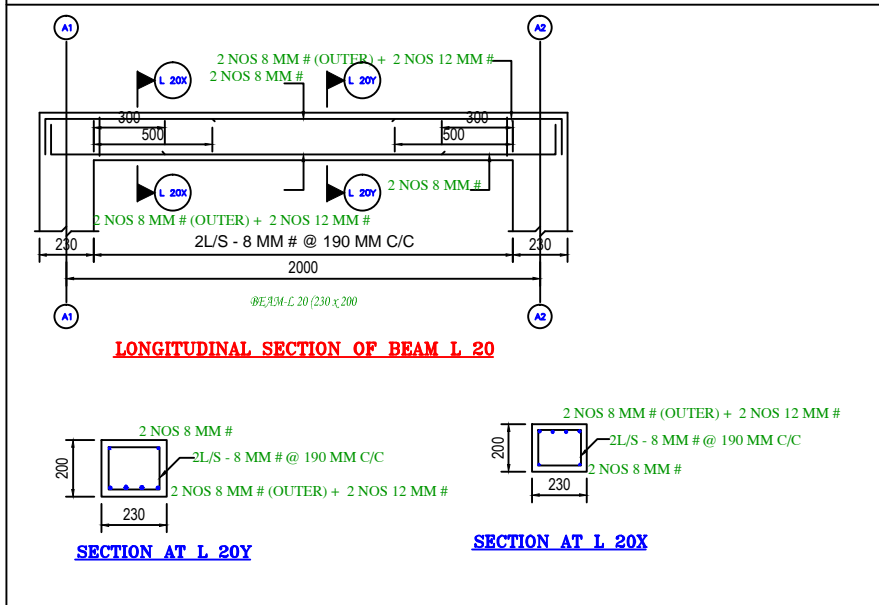
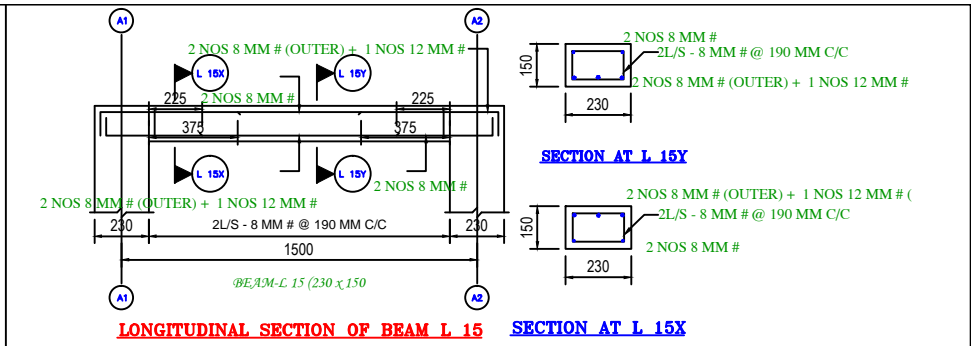
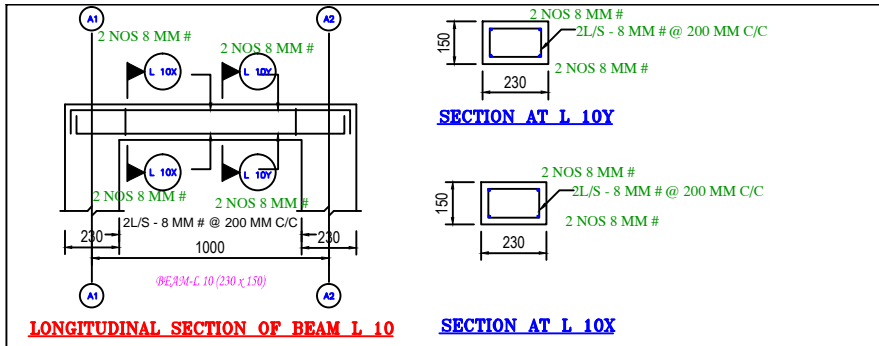
**SHINE**

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NOTE: PROVIDE L30 FOR SHELF ALSO



PROPOSED RESIDENTIAL APARTMENT FOR BINDHU PALAPPETI	L 20 - 1.50M - 2.00M	L 10 - 0.80M - 1.00M
DESIGNED BY: SHINE.C.CHINNAN. Ph.D,M.Tech(struct), M.B.A	L 30 - 2.00M - 3.00M PROVIDE L30 FOR SHELF	L 15 - 1.00M - 1.50M





BAR BENDING SCHEDULE					
TAG	DIA. (mm.)	LENGTH (mm.)	NUMBERS	DIMENSION (mm.)	
1	12	3386	2		E = 2210 A = 624
2	12	2962	2		A = 0 B = 413 C = 2136 D = 413 E = 0
3	12	1888	2		E = 1888
4	8	1452	16		E = 180 A = 450
5	12	1880	4		A = 300 B = 500 C = 280 D = 500 E = 300
6	10	2050	2		E = 2050
7	12	20	1		E = 20

### DETAILS OF REINFORCEMENT FOR BEAMS

NOS	DESCRIPTION OF BEAMS	GRADE	SPAN	WIDTH	DEPTH	MAIN REINFORCEMENT						STIRRUPS						SIDE FACE			
						1ST SUPPORT		MID SUPPORT		2ND SUPPORT		1ST SUPPORT			MID SUPPORT				2ND SUPPORT		
						TOP	BOTTOM	TOP	BOTTOM	TOP	BOTTOM	SPACING	LEG	DIST.	SPACING	LEG	DIST.		SPACING	LEG	DIST.
B238	- G9	M20	1805	230	500	2-12#	2-12#	2-12#	2-12#	2-12#	2-12#	8# @ 125	2	480	8# @ 125	2	845	8# @ 125	2	480	1-10#
B96	G9 -	M20	65	230	500	2-12#	2-12#	2-12#	3-12#	2-12#	2-12#	8# @ 75	2	45	8# @ 75	2	-25	8# @ 50	2	45	1-10#

PROPOSED RESIDENTIAL BUILDING  
FOR BINDHU PALAPPETI

DESIGNED BY:  
SHINE.C.CHINNAN(Ph.D),M.Tech(struct),M.B.A



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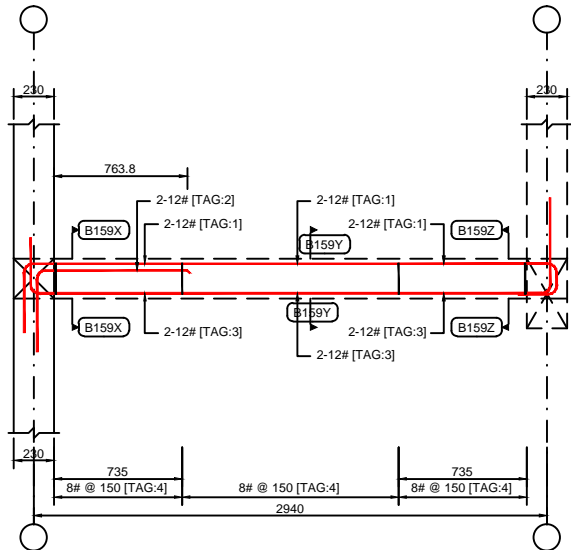
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Email: shinebuilders@hotmail.com

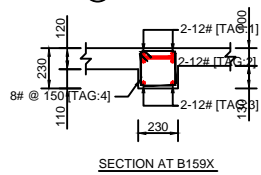
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Note: Reinforcement shall be verified before concreting

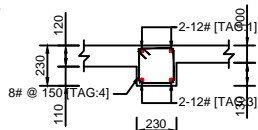


BAR BENDING SCHEDULE					
TAG	DIA. (mm.)	LENGTH (mm.)	NUMBER	DIMENSION (mm.)	
1	12	3838	2	 A = 394 B = 3050 C = 174 D = 220	
2	12	1292	2	 E = 860 A = 468	
3	12	3770	2	 E = 2976 A = 318 B = 548	
4	8	912	19	 E = 180 A = 180	

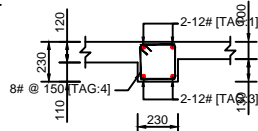
### DETAILS OF REINFORCEMENT FOR BEAMS



SECTION AT B159X



SECTION AT B159Y



SECTION AT B159Z

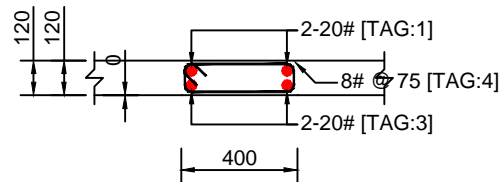
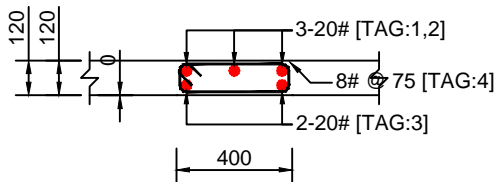
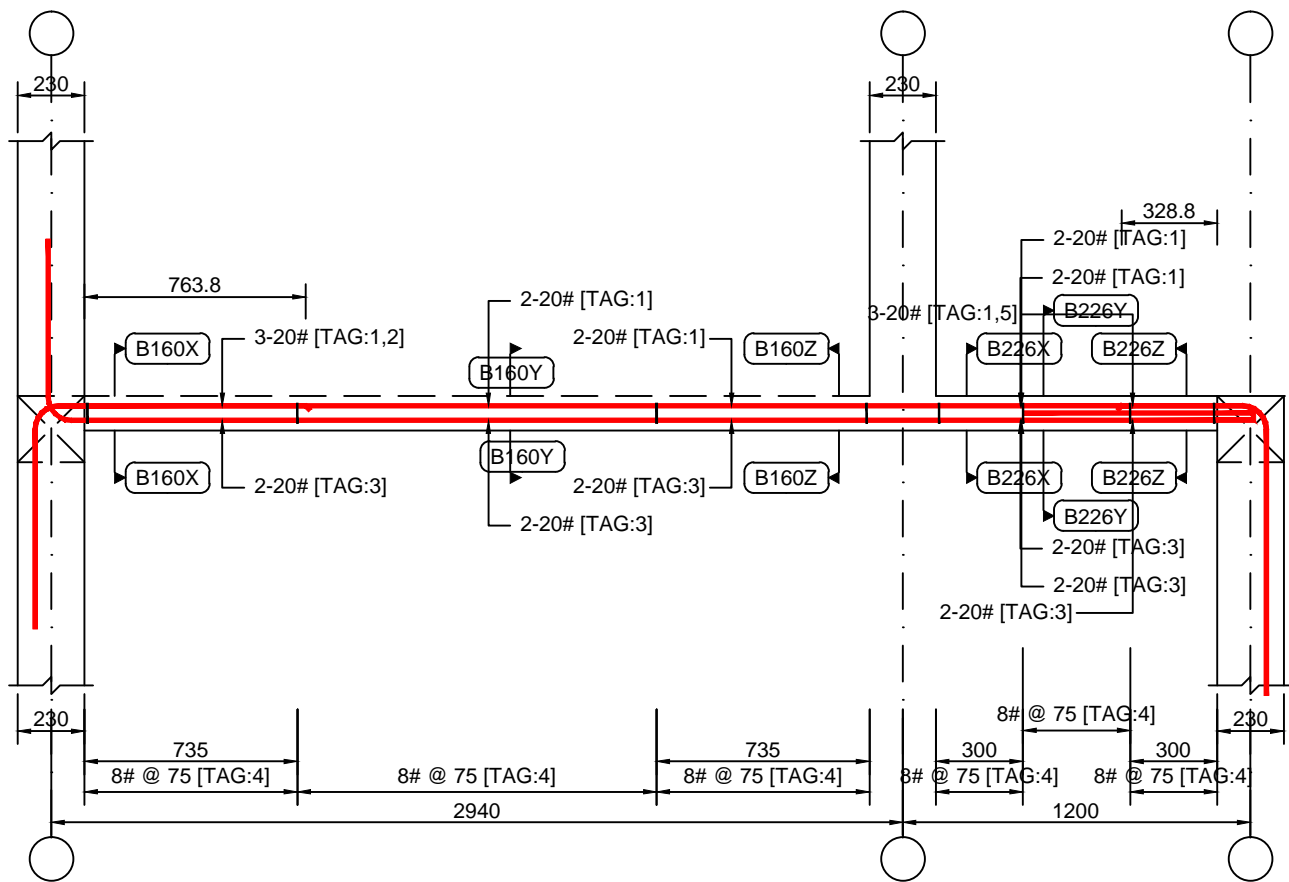
NOS	DESCRIPTION OF BEAMS	GRADE	SPAN	WIDTH	DEPTH	MAIN REINFORCEMENT						STIRRUPS						SIDE FACE			
						1ST SUPPORT		MID SUPPORT		2ND SUPPORT		1ST SUPPORT		MID SUPPORT		2ND SUPPORT					
						TOP	BOTTOM	TOP	BOTTOM	TOP	BOTTOM	SPACING	LEG	DIST.	SPACING	LEG	DIST.		SPACING	LEG	DIST.
B159	-	M20	2825	230	230	2-12#	2-12#	2-12#	2-12#	2-12#	2-12#	8# @ 150	2	735	8# @ 150	2	1355	8# @ 150	2	735	NIL

PROPOSED RESIDENTIAL BUILDING  
FOR BINDHU PALAPPETI

DESIGNED BY:  
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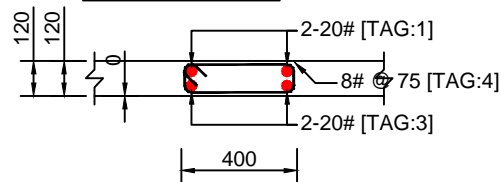
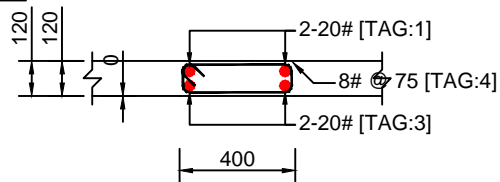
CALICUT ROAD,KUNNAMKULAM.680503  
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Mob-9447730104, 9446030104  
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Note: Reinforcement shall be verified before concreting



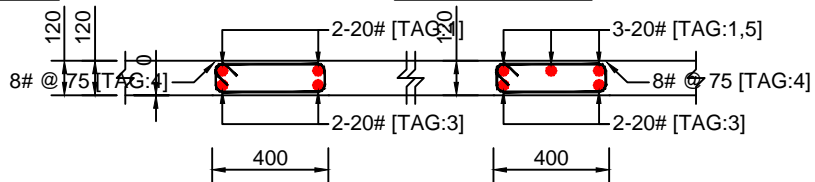
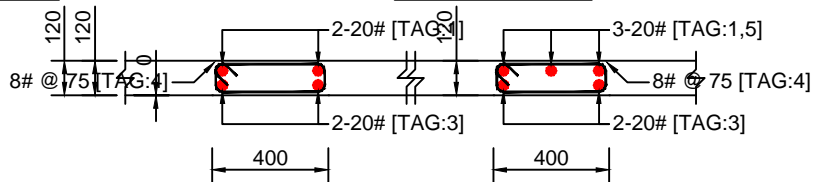
SECTION AT B160X

SECTION AT B226X








SECTION AT B160Y

SECTION AT B226Y



SECTION AT B160Z

SECTION AT B226Z

BAR BENDING SCHEDULE				
TAG	DIA. (mm.)	LENGTH (mm.)	NUMBERS	DIMENSION (mm.)
1	20	5900	2	 E = 4250 A = 770 B = 1000
2	20	1644	1	 E = 934 A = 770
3	20	5602	2	 A = 627 B = 4160 C = 25 D = 790
4	8	1032	57	 E = 350 A = 70
5	20	1439	1	 E = 1000 A = 499

### DETAILS OF REINFORCEMENT FOR BEAMS

NOS	DESCRIPTION OF BEAMS	GRADE	SPAN	WIDTH	DEPTH	MAIN REINFORCEMENT						STIRRUPS						SIDE FACE			
						1ST SUPPORT		MID SUPPORT		2ND SUPPORT		1ST SUPPORT			MID SUPPORT				2ND SUPPORT		
						TOP	BOTTOM	TOP	BOTTOM	TOP	BOTTOM	SPACING	LEG	DIST.	SPACING	LEG	DIST.		SPACING	LEG	DIST.
B160	-	M20	2825	400	120	3-20#	2-20#	2-20#	2-20#	2-20#	2-20#	8# @ 75	2	735	8# @ 75	2	1355	8# @ 75	2	735	NIL
B226	-	M20	1085	400	120	2-20#	2-20#	2-20#	2-20#	3-20#	2-20#	8# @ 75	2	300	8# @ 75	2	485	8# @ 75	2	300	NIL

PROPOSED RESIDENTIAL BUILDING  
FOR BINDHU PALAPPETI

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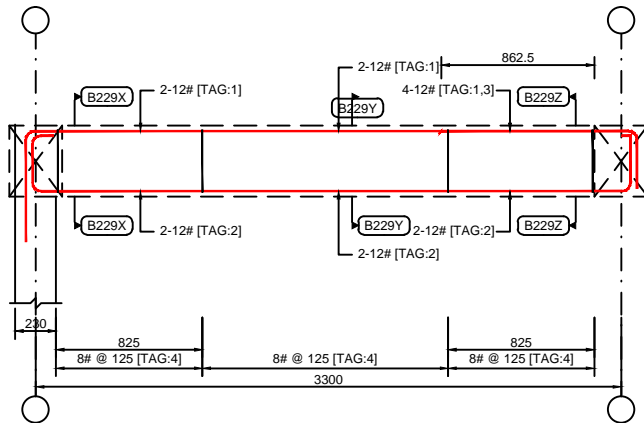
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Email: shinebuilders@hotmail.com

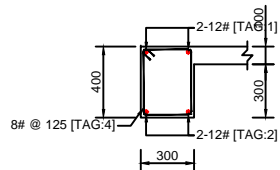
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Note: Reinforcement shall be verified before concreting

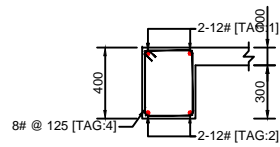


BAR BENDING SCHEDULE				
TAG	DIA. (mm.)	LENGTH (mm.)	NUMBERS	DIMENSION (mm.)
1	12	4393	2	 A = 624 B = 3445 C = 324 D = 0
2	12	4163	2	 A = 118 B = 313 C = 3371 D = 313 E = 48
3	12	1426	2	 A = 1102 B = 324 C = 0
4	8	1392	27	 E = 250 A = 350

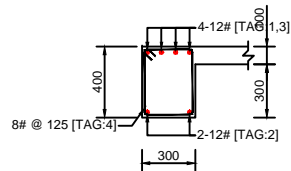
### DETAILS OF REINFORCEMENT FOR BEAMS



SECTION AT B229X



SECTION AT B229Y



SECTION AT B229Z

NOS	DESCRIPTION OF BEAMS	GRADE	SPAN	WIDTH	DEPTH	MAIN REINFORCEMENT						STIRRUPS						SIDE FACE			
						1ST SUPPORT		MID SUPPORT		2ND SUPPORT		1ST SUPPORT		MID SUPPORT		2ND SUPPORT					
						TOP	BOTTOM	TOP	BOTTOM	TOP	BOTTOM	SPACING	LEG	DIST.	SPACING	LEG	DIST.		SPACING	LEG	DIST.
B229	-	M20	3185	300	400	2-12#	2-12#	2-12#	2-12#	4-12#	2-12#	8# @ 125	2	825	8# @ 125	2	1535	8# @ 125	2	825	NIL

Note: Reinforcement shall be verified before concreting

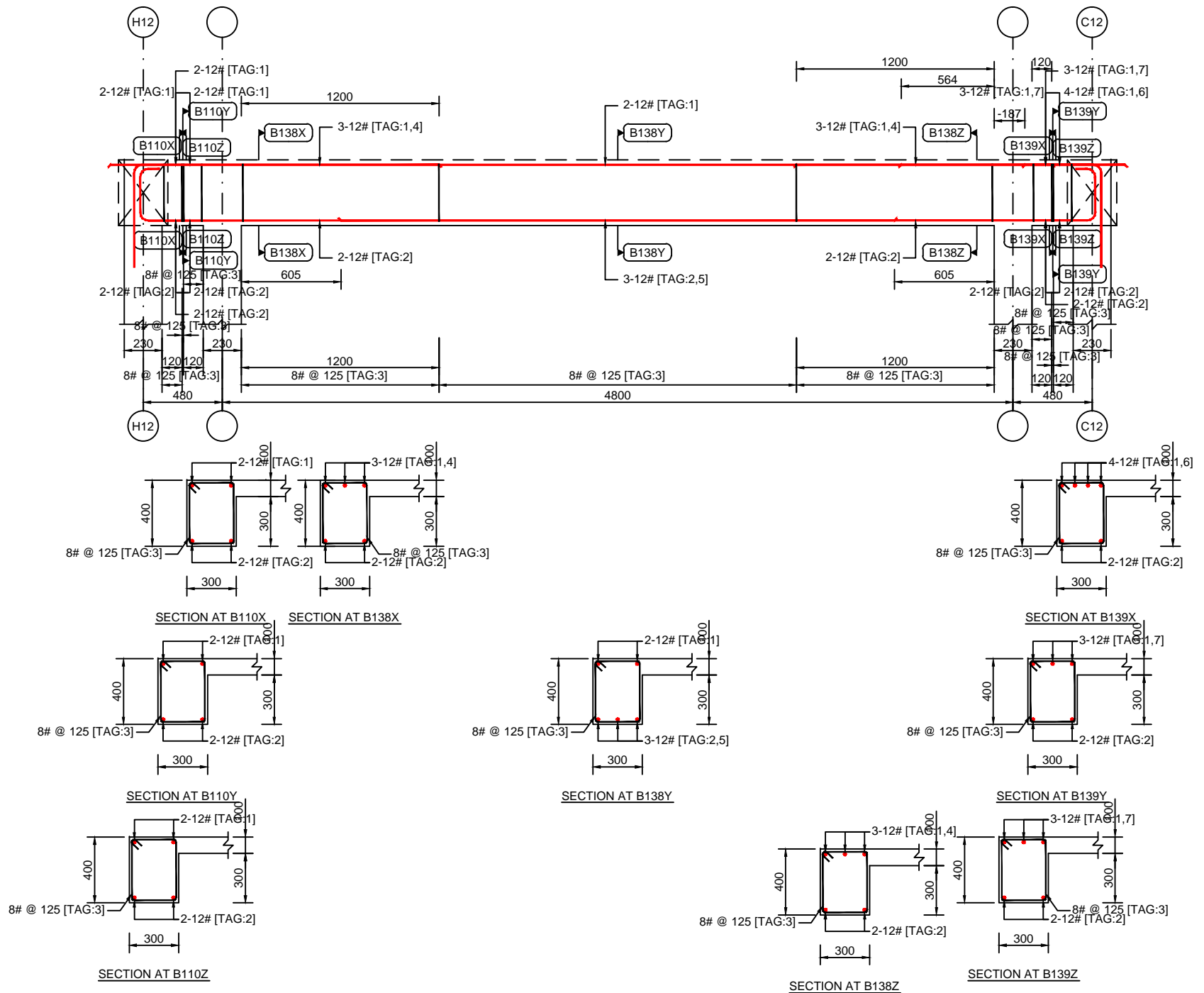
PROPOSED RESIDENTIAL BUILDING  
FOR BINDHU PALAPPETI








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BAR BENDING SCHEDULE				
TAG	DIA. (mm.)	LENGTH (mm.)	NUMBERS	DIMENSION (mm.)
1	12	7046	2	 E = 5870 A = 624
2	12	6658	2	 A = 118 B = 313 C = 5796 D = 313 E = 118
3	8	1392	41	 E = 250 A = 350
4	12	1994	2	 E = 1994
5	12	3360	1	 E = 3360
6	12	914	2	 E = 914
7	12	1051	1	 E = 624 A = 463

### DETAILS OF REINFORCEMENT FOR BEAMS

NOS	DESCRIPTION OF BEAMS	GRADE	SPAN	WIDTH	DEPTH	MAIN REINFORCEMENT						STIRRUPS									SIDE FACE
						1ST SUPPORT		MID SUPPORT		2ND SUPPORT		1ST SUPPORT			MID SUPPORT			2ND SUPPORT			
						TOP	BOTTOM	TOP	BOTTOM	TOP	BOTTOM	SPACING	LEG	DIST.	SPACING	LEG	DIST.	SPACING	LEG	DIST.	
B110	H12 -	M20	250	300	400	2-12#	2-12#	2-12#	2-12#	2-12#	2-12#	8# @ 125	2	120	8# @ 125	2	10	8# @ 125	2	120	NIL
B138	-	M20	4570	300	400	3-12#	2-12#	2-12#	3-12#	3-12#	2-12#	8# @ 125	2	1200	8# @ 125	2	2170	8# @ 125	2	1200	NIL
B139	- C12	M20	250	300	400	4-12#	2-12#	3-12#	2-12#	3-12#	2-12#	8# @ 125	2	120	8# @ 125	2	10	8# @ 125	2	120	NIL

PROPOSED RESIDENTIAL BUILDING  
FOR BINDHU PALAPPETI

DESIGNED BY:  
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Note: Reinforcement shall be verified before concreting