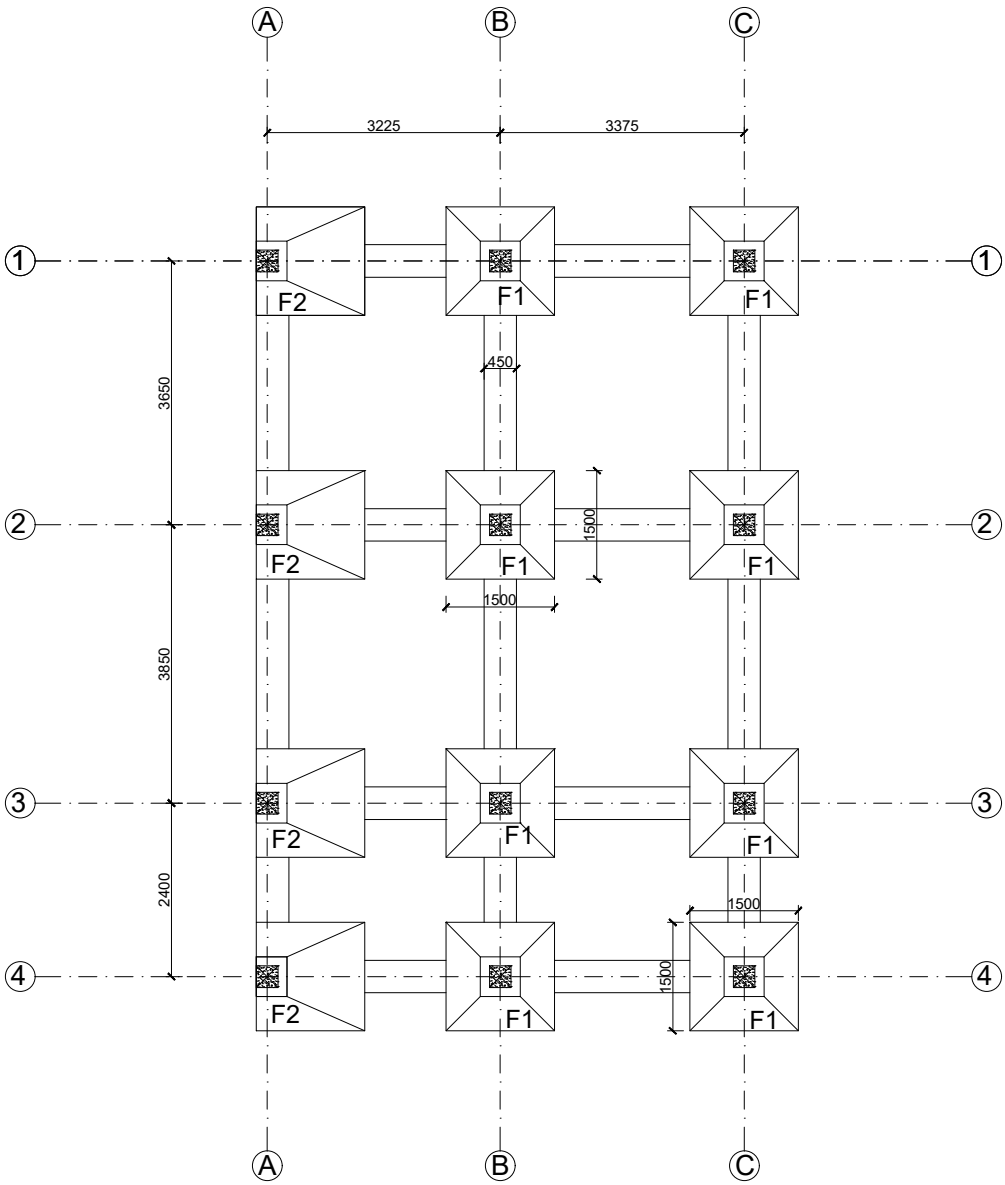


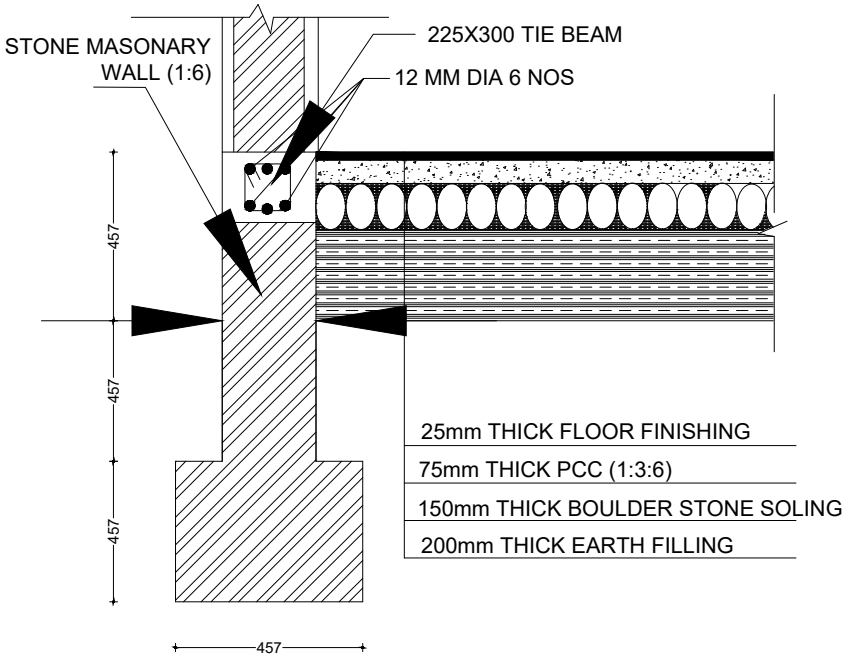


TABLE OF FOOTING REINFORCEMENT

S.NO.	FOOTING	TYPE	SIZE(axb)	DEPTH		REINFORCEMENT
				d	D	
1	F1	ISOLATED	1500x1500	200	300	12Ø @ 150mm c/c bothways
2	F2	ECCENTRIC	1500x1500	200	300	12Ø @ 150mm c/c bothways

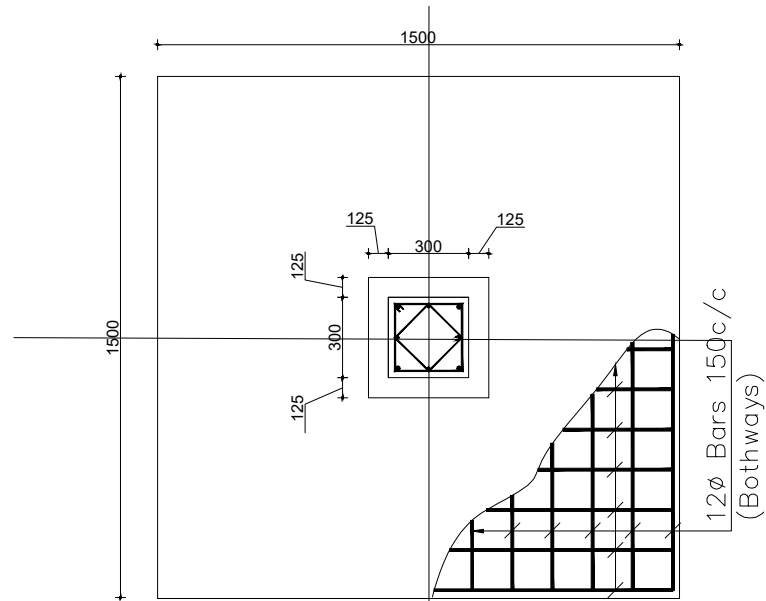


FOOTING LAYOUT PLAN

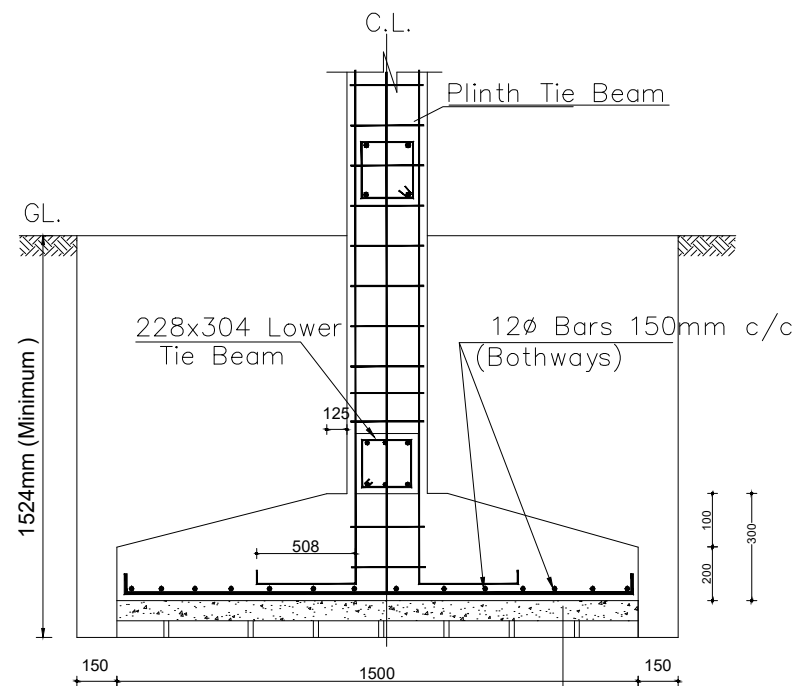


FOUNDATION WALL  
DETAIL

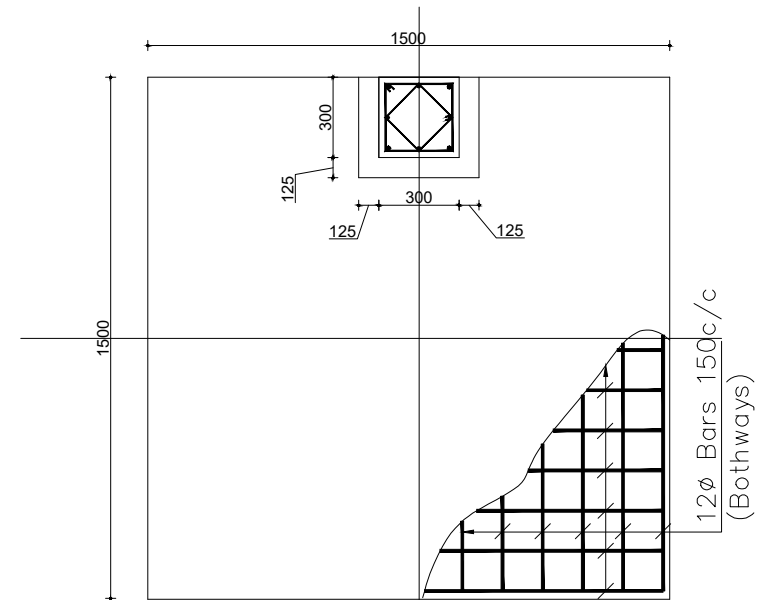
OWNER DETAILS :		BUILDING DETAILS :		OFFICIAL USE	CONSULTANT :		
		TYPE OF BLDG.	TYPE 'B' (SAP)		GHAR ENGINEERING CONSULTANCY		
		PROPOSE OF BLDG.	RESIDENTIAL		POKHARA-8, NEWROAD		
		PLINTH AREA	72.65 Sq.Mtrs.		REG. NO.		
		PROPOSED FLOOR AREA			CAD BY	SUSHMA DEVKOTA	
		GROUND FLOOR	72.65 Sq.Mtrs.		STRUCTURED BY	ER. ACHYUT BHANDARI	
		FIRST FLOOR	74.65 Sq.Mtrs.				
		SECOND FLOOR	-				
MARGA		TOTAL FLOOR AREA	147.3 Sq.Mtrs.		SCALE		← 2000 →
PLOT NO.		COVERAGE AREA	53.02%		ISSUE DATE		MANGSIR-2081
LAND AREA	137.00 Sq. Mtrs.(1472.94 Sq.Ft.)	FLOOR AREA RATIO	1.07	SHEET NO.		S1	



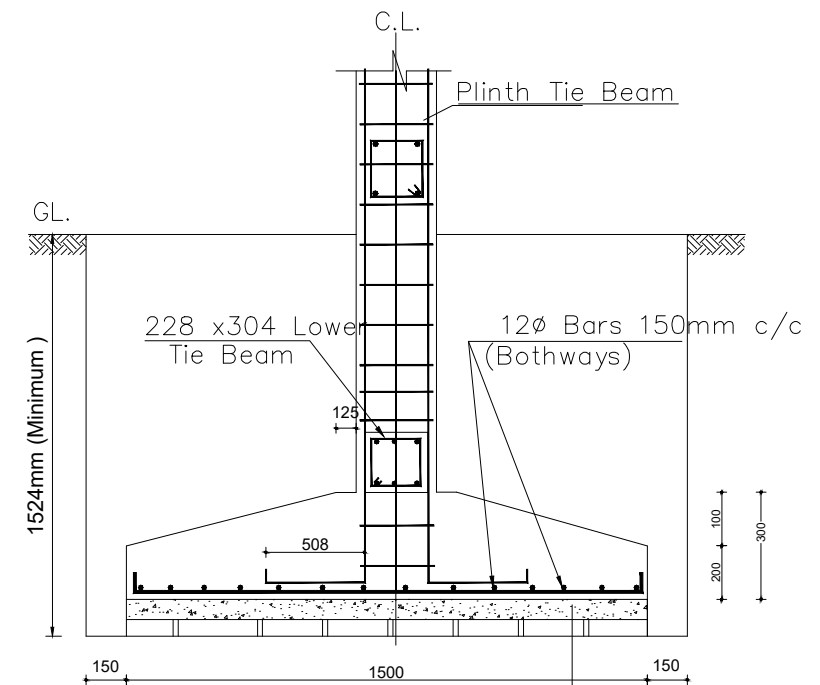
F1(ISOLATED)- PLAN



FOOTING (F1 ISOLATED)

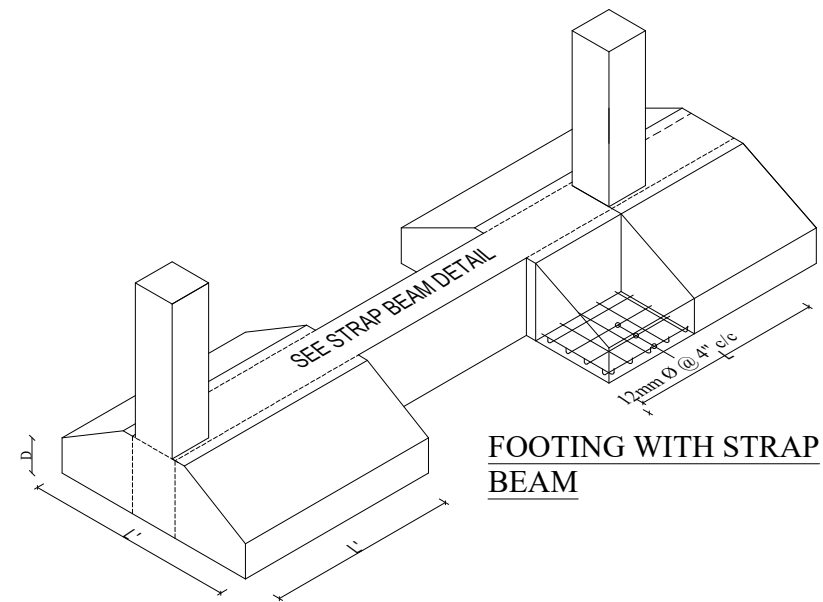
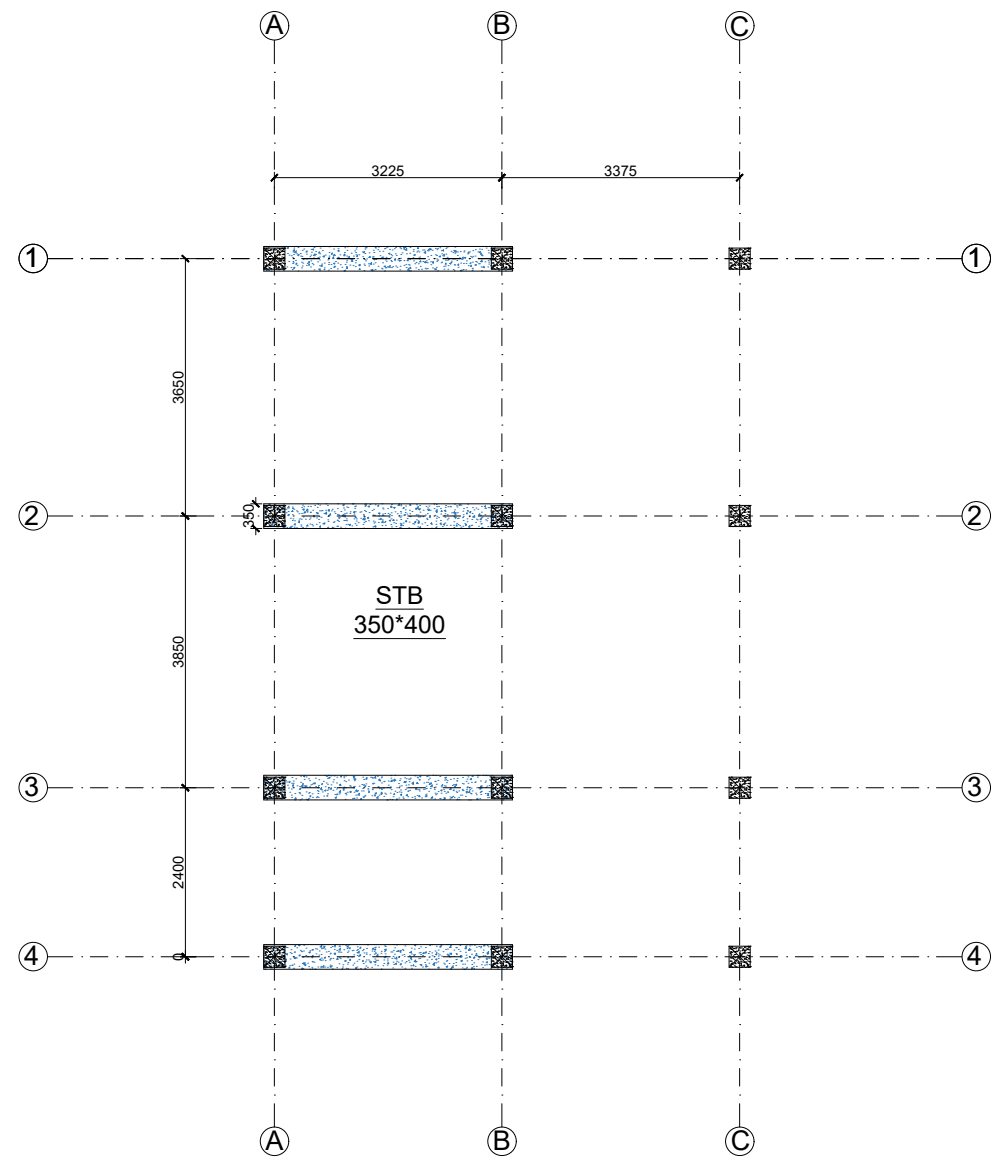


F2(ECCENTRIC)- PLAN

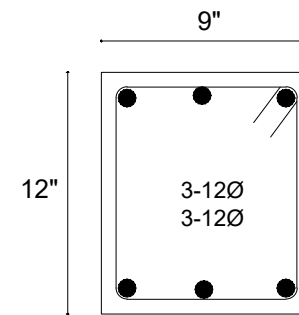


FOOTING (F2 ECCENTRIC)

OWNER DETAILS :		BUILDING DETAILS :		OFFICIAL USE	CONSULTANT :	
		TYPE OF BLDG.	TYPE 'B' (SAP)		GHAR ENGINEERING CONSULTANCY	
		PROPOSE OF BLDG.	RESIDENTIAL		POKHARA-8, NEWROAD	
		PLINTH AREA	72.65 Sq.Mtrs.		REG. NO.	
		PROPOSED FLOOR AREA			CAD BY	SUSHMA DEVKOTA
		GROUND FLOOR	72.65 Sq.Mtrs.		STRUCTURED BY	ER. ACHYUT BHANDARI
		FIRST FLOOR	74.65 Sq.Mtrs.			
		SECOND FLOOR	-			
		TOTAL FLOOR AREA	147.3 Sq.Mtrs.			
MARGA		COVERAGE AREA	53.02%		SCALE	
PLOT NO.		FLOOR AREA RATIO	1.07	ISSUE DATE		MANGSIR-2081
LAND AREA	137.00 Sq. Mtrs.(1472.94 Sq.Ft.)			SHEET NO.		S2



SIZE	SECTION
<b>STB</b> <b>350x400</b>	8mmØ 2 legged stirrups @ 100mm c/c 4-16 Ø TH- Bars 4-16mmØ+2-12mmØ 400 350

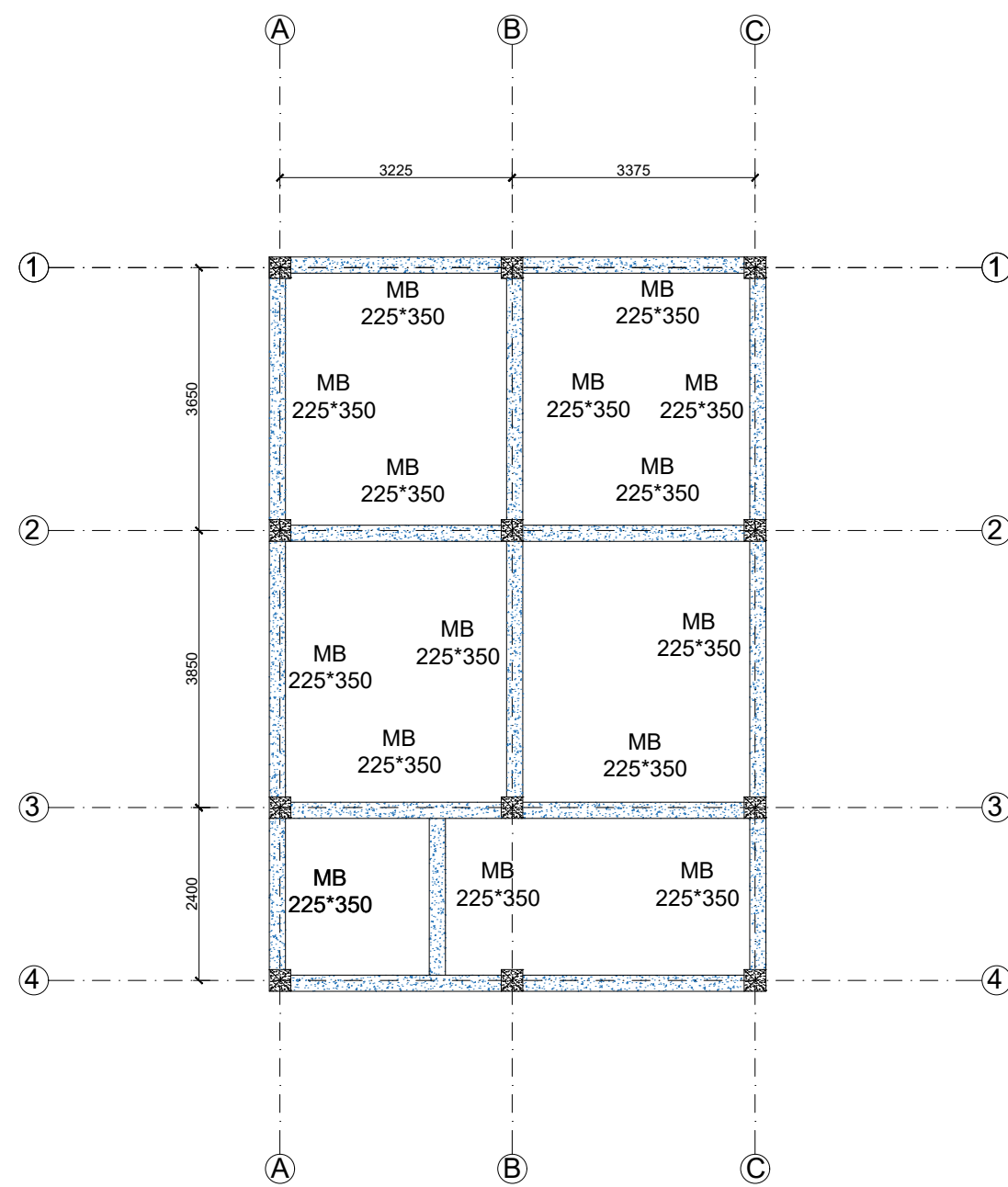


ALL TIE BEAM: TB1

**All tie - beam size = 225 x 300 mm**  
**Concrete Grade for tie beam = M20**  
**Steel grade = Designed for Fe 500**  
**Cover = 35 mm**

## STRAP BEAM LAYOUT

OWNER DETAILS :		BUILDING DETAILS :		OFFICIAL USE	CONSULTANT :	
		TYPE OF BLDG.	TYPE 'B' (SAP)		GHAR ENGINEERING CONSULTANCY	
		PROPOSE OF BLDG.	RESIDENTIAL		POKHARA-8, NEWROAD	
		PLINTH AREA	72.65 Sq.Mtrs.		REG. NO.	
		PROPOSED FLOOR AREA			CAD BY	SUSHMA DEVKOTA
		GROUND FLOOR	72.65 Sq.Mtrs.		STRUCTURED BY	ER. ACHYUT BHANDARI
		FIRST FLOOR	74.65 Sq.Mtrs.			
		SECOND FLOOR	-			
		MARGA			TOTAL FLOOR AREA	147.3 Sq.Mtrs.
PLOT NO.		COVERAGE AREA	53.02%		SCALE	← 2000 →
LAND AREA	137.00 Sq. Mtrs.(1472.94 Sq.Ft.)	FLOOR AREA RATIO	1.07		ISSUE DATE	MANGSIR-2081
				SHEET NO.	S3	

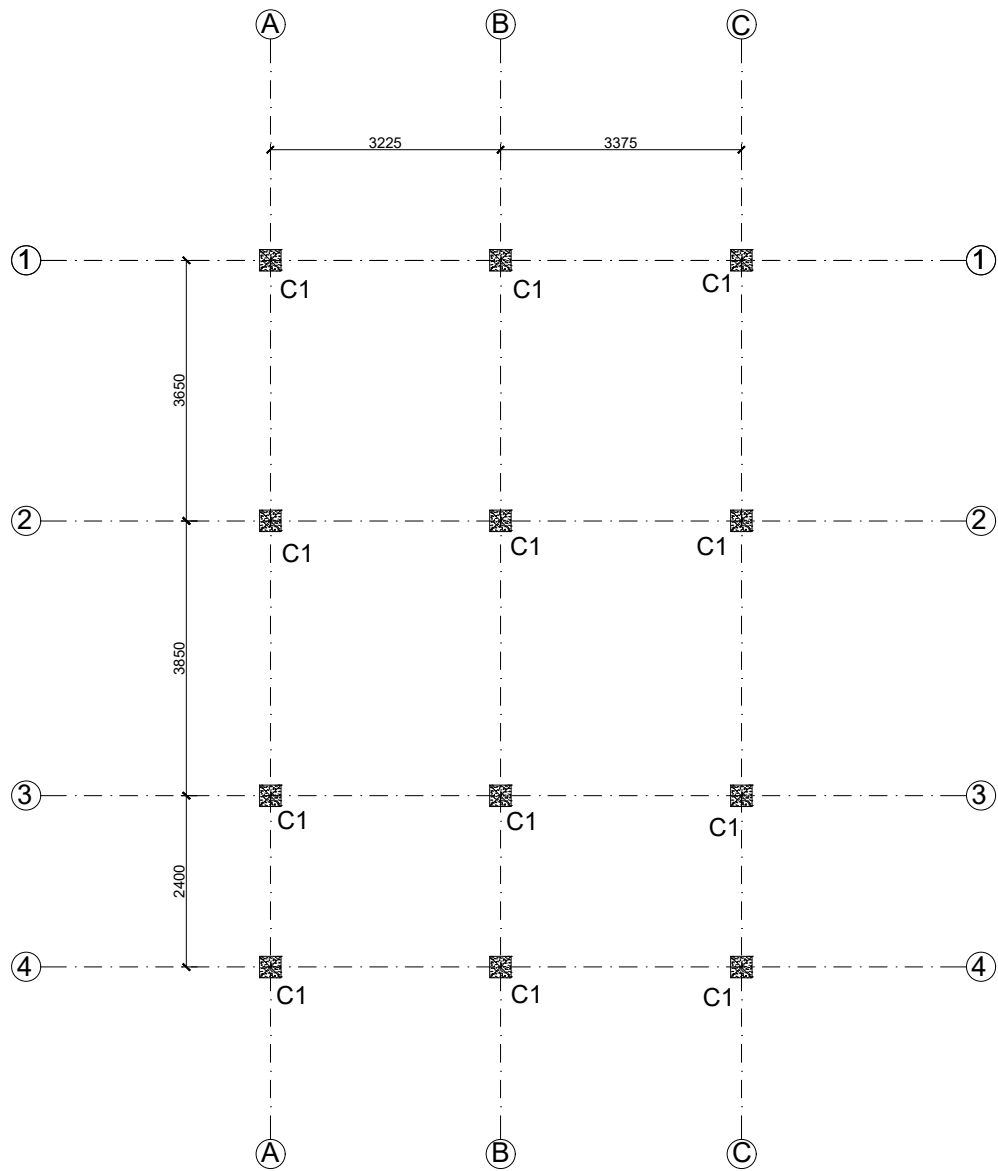


FLOOR BEAM LAYOUT

BEAM REINFORCEMENT DETAIL:

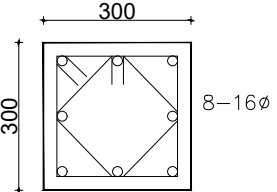
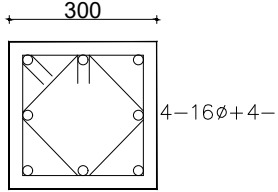
GRID	BEAM ID	SIZE (BXD)	TOP REINFORCEMENT		BOTTOM REINFORCEMENT		STIRRUPS
			END ZONE	MIDZONE	END ZONE	MIDZONE	
ALL	MB	225 X 350	2-16Ø(Th)+1-16Ø(Ex)	3-12Ø(Th)	2-16Ø(Th)	3-12Ø(Th)	2L-8Ø@100 c/c & 150 c/c

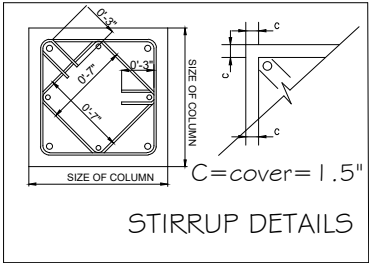
OWNER DETAILS :		BUILDING DETAILS :		OFFICIAL USE	CONSULTANT :		
		TYPE OF BLDG.	TYPE 'B' (SAP)		GHAR ENGINEERING CONSULTANCY		
		PROPOSE OF BLDG.	RESIDENTIAL		POKHARA-8, NEWROAD		
		PLINTH AREA	72.65 Sq.Mtrs.		REG. NO.		
		PROPOSED FLOOR AREA			CAD BY	SUSHMA DEVKOTA	
		GROUND FLOOR	72.65 Sq.Mtrs.		STRUCTURED BY	ER. ACHYUT BHANDARI	
		FIRST FLOOR	74.65 Sq.Mtrs.				
		SECOND FLOOR	-				
MARGA		TOTAL FLOOR AREA	147.3 Sq.Mtrs.		SCALE		+—————2000————+
PLOT NO.		COVERAGE AREA	53.02%		ISSUE DATE		MANGSIR-2081
LAND AREA	137.00 Sq. Mtrs.(1472.94 Sq.Ft.)	FLOOR AREA RATIO	1.07	SHEET NO.		S4	



COLUMN LAYOUT PLAN

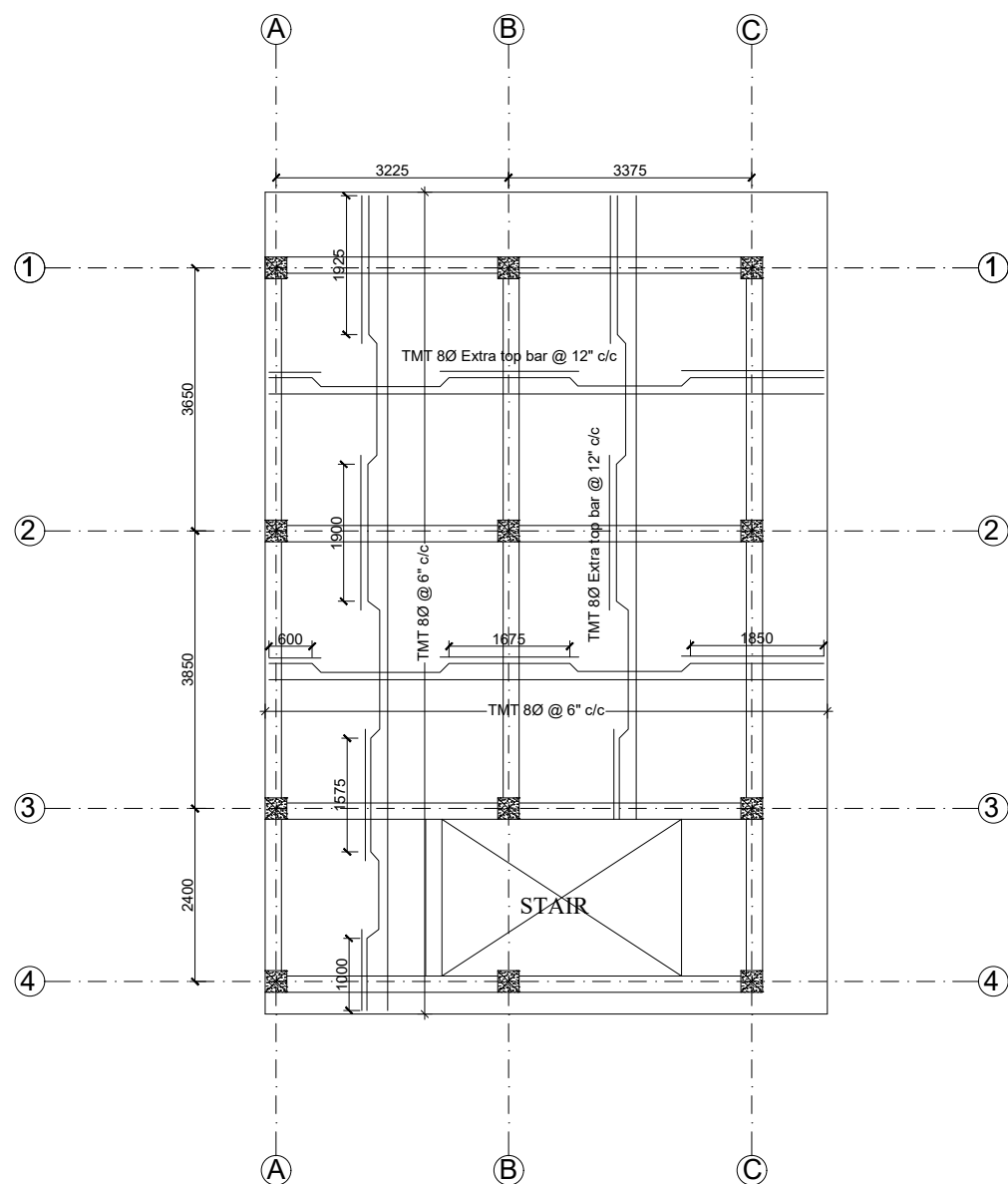
COLUMN DETAILS  
Fe 500, fy = 20 MPa  
Stirrups 8ø @ 100mm & 150mm c/c

TYPE	SIZE	NOS	GROUND FLOOR	FIRST FLOOR
C1	300x300	12		

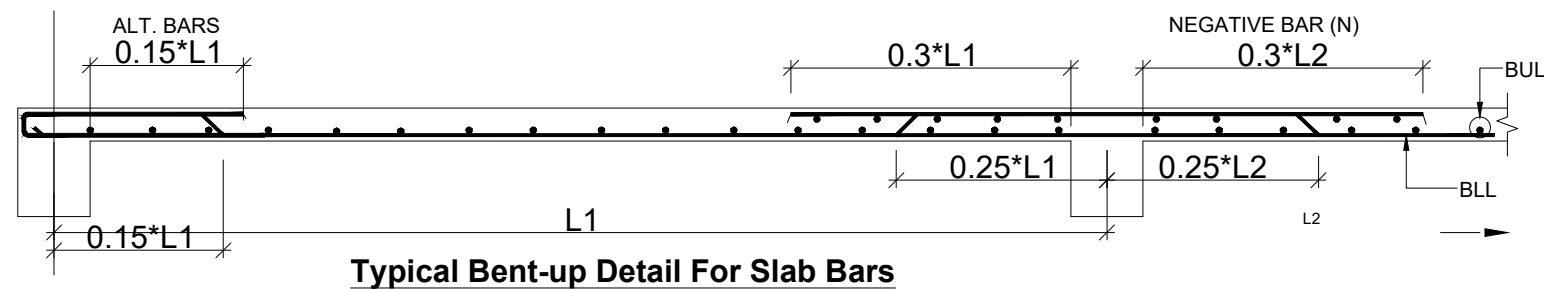


DEVELOPMENT LENGTH(Ld) FOR M20 CONCRETE AND FE415 STEEL	
DIA. OF BAR(ø)	Ld(50Xø) mm/inch
8MM	400mm/16"
10MM	500mm/20"
12MM	600mm/24"
16MM	800mm/32"

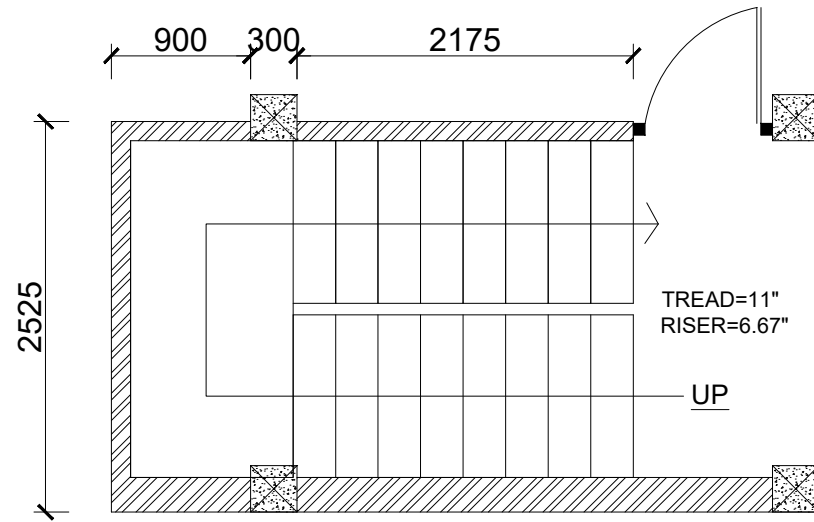
OWNER DETAILS :		BUILDING DETAILS :		OFFICIAL USE	CONSULTANT :	
		TYPE OF BLDG.	TYPE 'B' (SAP)		GHAR ENGINEERING CONSULTANCY	
		PROPOSE OF BLDG.	RESIDENTIAL		POKHARA-8, NEWROAD	
		PLINTH AREA	72.65 Sq.Mtrs.		REG. NO.	
		PROPOSED FLOOR AREA			CAD BY	SUSHMA DEVKOTA
		GROUND FLOOR	72.65 Sq.Mtrs.		STRUCTURED BY	ER. ACHYUT BHANDARI
		FIRST FLOOR	74.65 Sq.Mtrs.			
		SECOND FLOOR	-			
		TOTAL FLOOR AREA	147.3 Sq.Mtrs.			
		COVERAGE AREA	53.02%			
MARGA		FLOOR AREA RATIO	1.07		SCALE	← 2000 →
PLOT NO.					ISSUE DATE	MANGSIR-2081
LAND AREA	137.00 Sq. Mtrs.(1472.94 Sq.Ft.)				SHEET NO.	S5



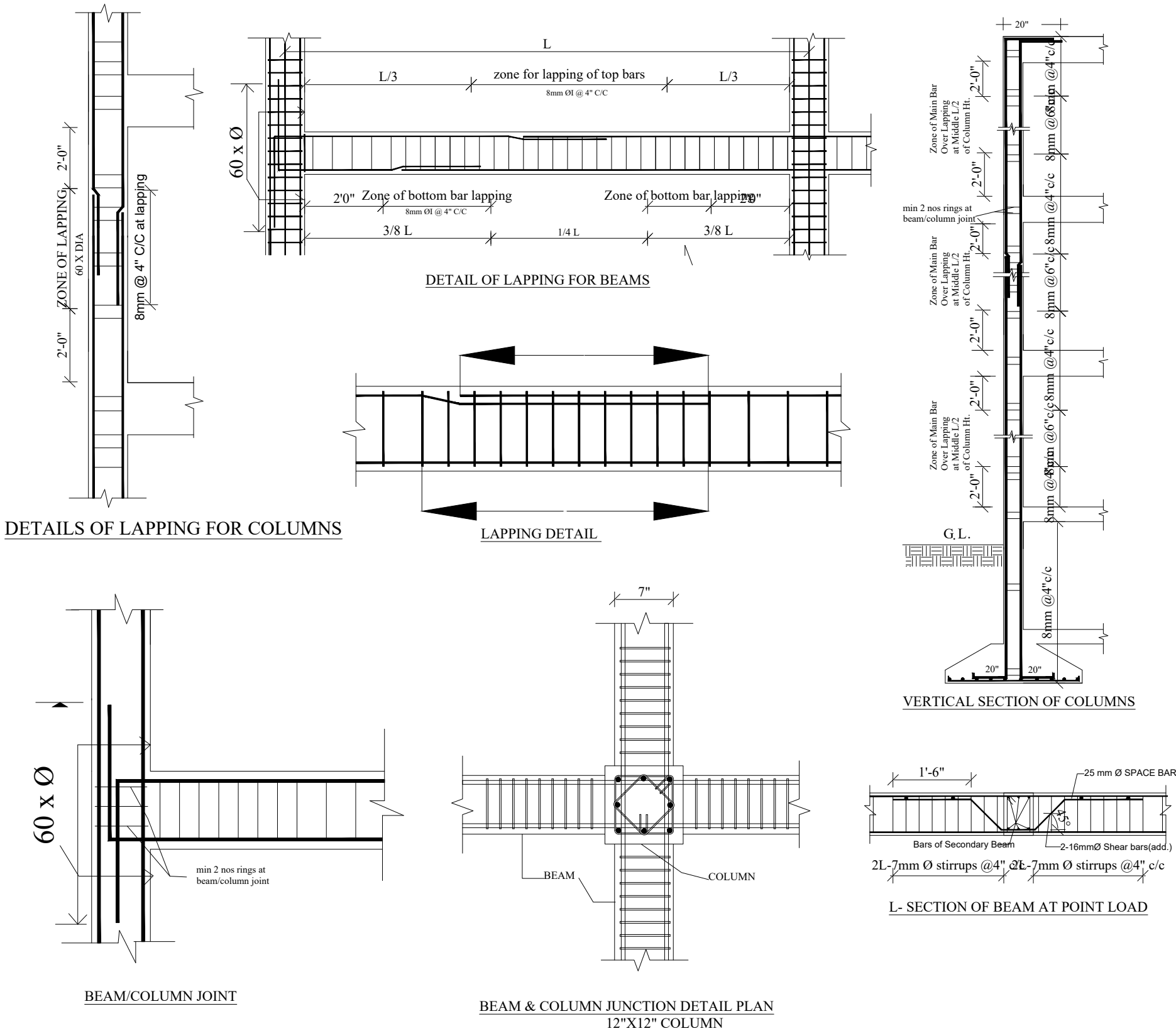
SLAB REINFORCEMENT LAYOUT PLAN



OWNER DETAILS :		BUILDING DETAILS :		OFFICIAL USE		CONSULTANT :		
		TYPE OF BLDG.	TYPE 'B' (SAP)			GHAR ENGINEERING CONSULTANCY		
		PROPOSE OF BLDG.	RESIDENTIAL			POKHARA-8, NEWROAD		
		PLINTH AREA	72.65 Sq.Mtrs.			REG. NO.		
		PROPOSED FLOOR AREA				CAD BY	SUSHMA DEVKOTA	
		GROUND FLOOR	72.65 Sq.Mtrs.			STRUCTURED BY	ER. ACHYUT BHANDARI	
		FIRST FLOOR	74.65 Sq.Mtrs.					
		SECOND FLOOR	-					
		MARGA				TOTAL FLOOR AREA	147.3 Sq.Mtrs.	SCALE
PLOT NO.		COVERAGE AREA	53.02%			ISSUE DATE		MANGSIR-2081
LAND AREA	137.00 Sq. Mtrs.(1472.94 Sq.Ft.)	FLOOR AREA RATIO	1.07	SHEET NO.		S6		

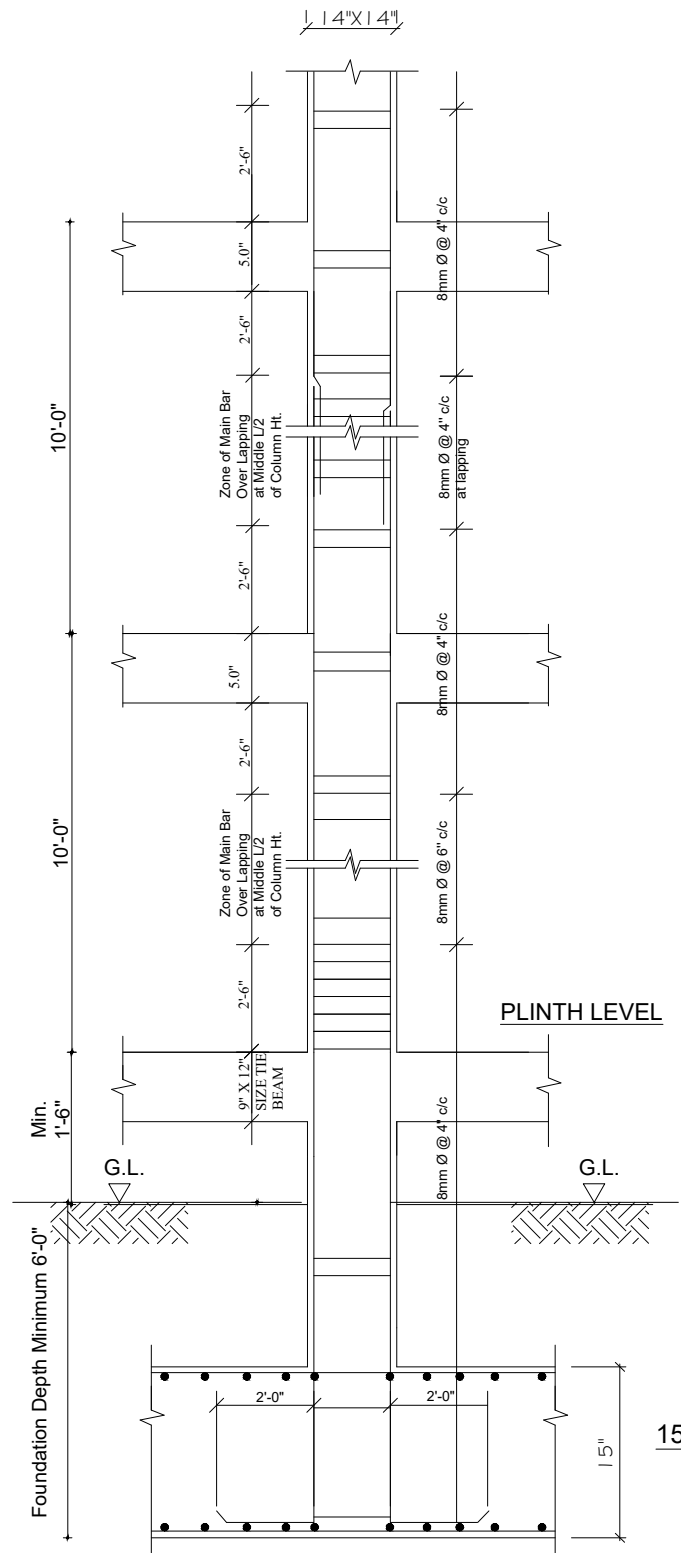


OWNER DETAILS :		BUILDING DETAILS :		SCHEDULE OF OPENING				OFFICIAL USE		CONSULTANT :		
		TYPE OF BLDG.	TYPE 'B' (SAP)	SN	DESCRIPTION	SYMBOL	SIZE(mm*mm)			NOS.	<b>GHR ENGINEERING CONSULTANCY POKHARA-8, NEWROAD</b>	
		PROPOSE OF BLDG.	RESIDENTIAL	1.	DOOR	MD	900 X 2100			2		
		PLINTH AREA	72.65 Sq.Mtrs.			D1	900 X 2100			3		
		<b>PROPOSED FLOOR AREA</b>				D2	900 X 2100			2		
		GROUND FLOOR	72.65 Sq.Mtrs.			D3	750X2100	1				
		FIRST FLOOR	74.65 Sq.Mtrs.	CG	-	-						
		SECOND FLOOR	-	W1	1500 X 1500	6						
		<b>TOTAL FLOOR AREA</b>		<b>147.3 Sq.Mtrs</b>	W2	900 X 600	2					
MARGA		COVERAGE AREA	53.02%	2.	WINDOW	W3	-	-	SCALE	1760		
PLOT NO.		FLOOR AREA RATIO	1.07			3.	VENTILATION	V		-	-	ISSUE DATE
LAND AREA	137.00 Sq. Mtrs.(1472.9412 Sq.Ft.)							SHEET NO.		S8		

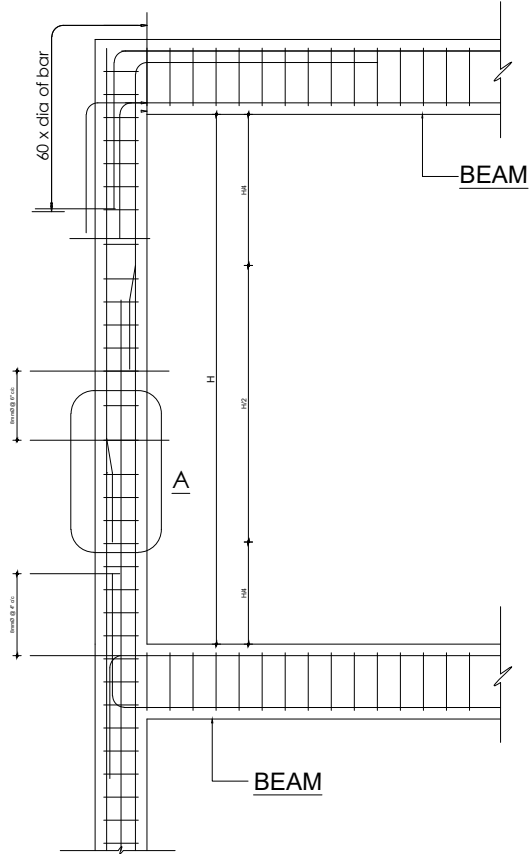


OWNER DETAILS :		BUILDING DETAILS :		OFFICIAL USE		CONSULTANT :	
		TYPE OF BLDG.	TYPE 'B' (SAP)			GHAR ENGINEERING CONSULTANCY	
		PROPOSE OF BLDG.	RESIDENTIAL			POKHARA-8, NEWROAD	
		PLINTH AREA	72.65 Sq.Mtrs.			REG. NO.	
		PROPOSED FLOOR AREA				CAD BY	SUSHMA DEVKOTA
		GROUND FLOOR	72.65 Sq.Mtrs.			STRUCTURED BY	ER. ACHYUT BHANDARI
		FIRST FLOOR	74.65 Sq.Mtrs.				
		SECOND FLOOR	-				
MARGA		TOTAL FLOOR AREA	147.3 Sq.Mtrs.			SCALE	← 2000 →
PLOT NO.		COVERAGE AREA	53.02%			ISSUE DATE	MANGSIR-2081
LAND AREA	137.00 Sq. Mtrs.(1472.94 Sq.Ft.)	FLOOR AREA RATIO	1.07			SHEET NO.	S9

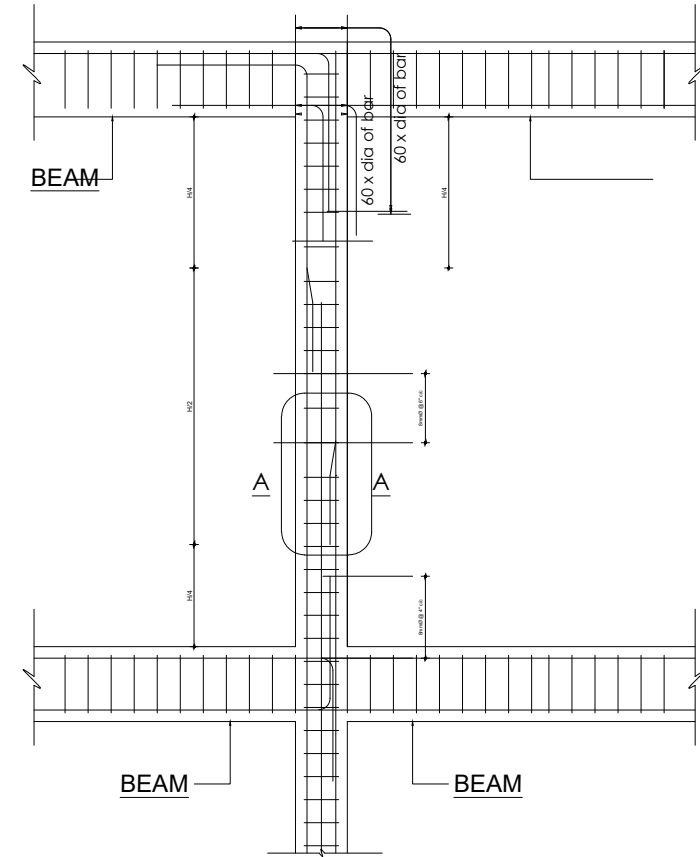




COLUMN VERTICAL SECTION  
WITH LAPPING JOINT DETAIL



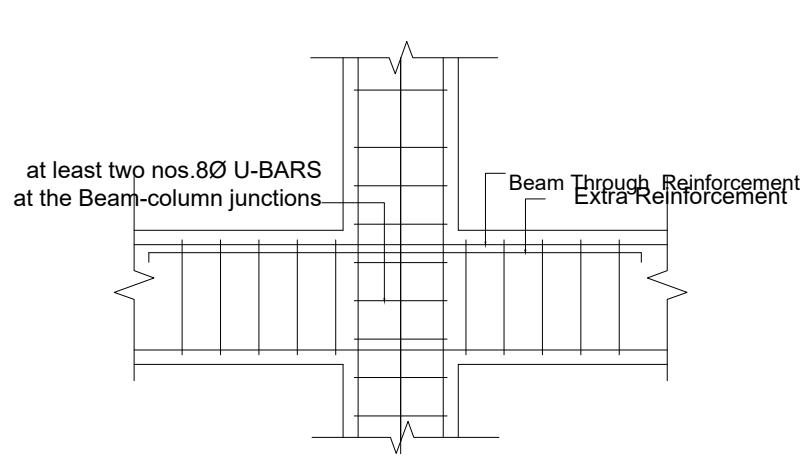
END BEAM-COLUMN DETAILS  
WITH LAPPING JOINT DETAIL



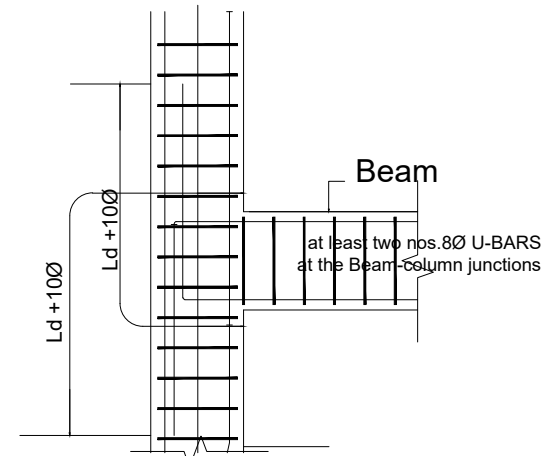
INTERMEDIATE BEAM-COLUMN DETAILS  
WITH LAPPING JOINT DETAIL

15" DEPTH ISOLATED FOOTING

OWNER DETAILS :		BUILDING DETAILS :		OFFICIAL USE	CONSULTANT :	
		TYPE OF BLDG.	TYPE 'B' (SAP)		GHAR ENGINEERING CONSULTANCY	
		PROPOSE OF BLDG.	RESIDENTIAL		POKHARA-8, NEWROAD	
		PLINTH AREA	72.65 Sq.Mtrs.		REG. NO.	
		PROPOSED FLOOR AREA			CAD BY	SUSHMA DEVKOTA
		GROUND FLOOR	72.65 Sq.Mtrs.		STRUCTURED BY	ER. ACHYUT BHANDARI
		FIRST FLOOR	74.65 Sq.Mtrs.			
		SECOND FLOOR	-			
		TOTAL FLOOR AREA	147.3 Sq.Mtrs.			
MARGA		COVERAGE AREA	53.02%		SCALE	
PLOT NO.		FLOOR AREA RATIO	1.07	ISSUE DATE		MANGSIR-2081
LAND AREA	137.00 Sq. Mtrs.(1472.94 Sq.Ft.)			SHEET NO.		S10



Typical Column & Beam Section

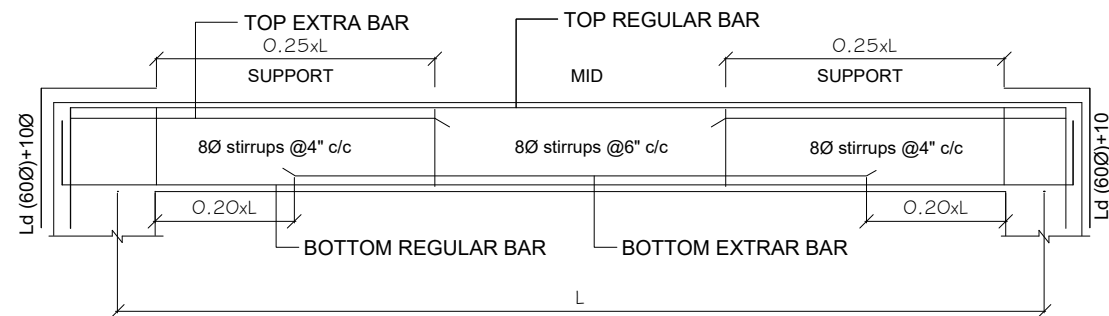


Typical Bar Bending Details of Beam at supports



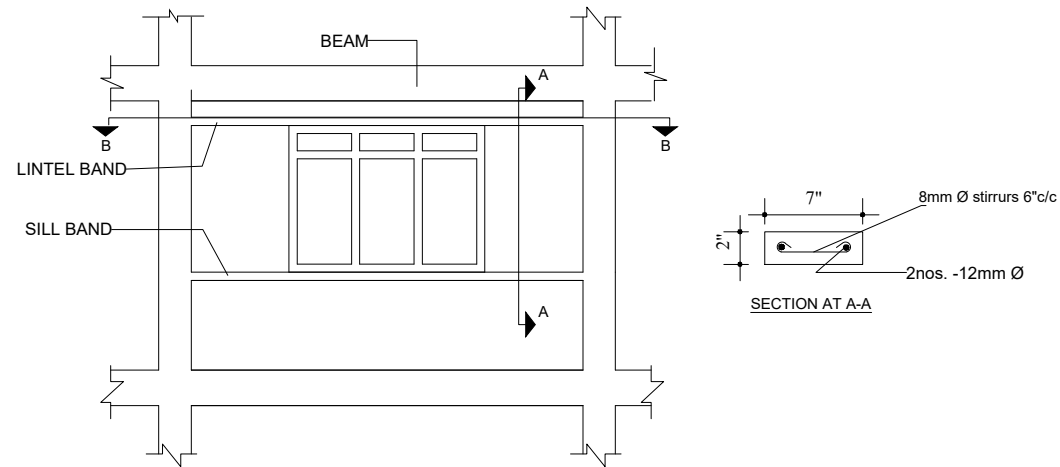
Bar Lapping Detail (Beam)

DUCTILE DETAILINGS FOR BEAM AND COLUMN

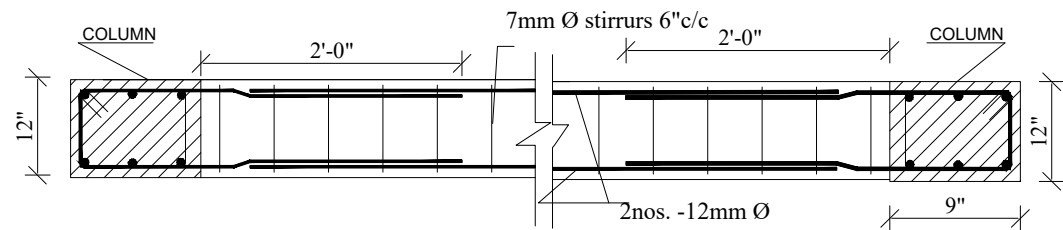


KEY L- SECTION OF BEAM

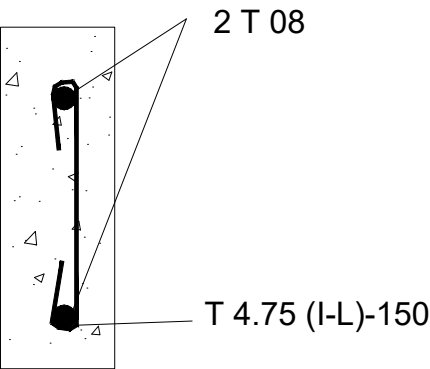
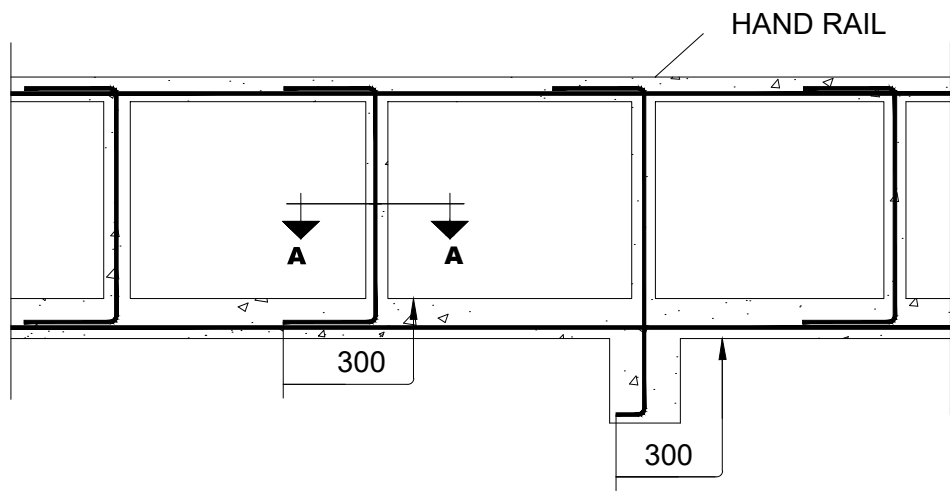
OWNER DETAILS :		BUILDING DETAILS :		OFFICIAL USE		CONSULTANT :	
		TYPE OF BLDG.	TYPE 'B' (SAP)			GHAR ENGINEERING CONSULTANCY	
		PROPOSE OF BLDG.	RESIDENTIAL			POKHARA-8, NEWROAD	
		PLINTH AREA	72.65 Sq.Mtrs.			REG. NO.	
		PROPOSED FLOOR AREA				CAD BY	SUSHMA DEVKOTA
		GROUND FLOOR	72.65 Sq.Mtrs.			STRUCTURED BY	ER. ACHYUT BHANDARI
		FIRST FLOOR	74.65 Sq.Mtrs.				
		SECOND FLOOR	-				
		TOTAL FLOOR AREA	147.3 Sq.Mtrs.				
MARGA		COVERAGE AREA	53.02%			SCALE	
PLOT NO.		FLOOR AREA RATIO	1.07	ISSUE DATE		MANGSIR-2081	
LAND AREA	137.00 Sq. Mtrs.(1472.94 Sq.Ft.)			SHEET NO.		S11	



ELEVATION OF WALL WITH SILL/LINTIL BAND



SECTIONAL PLAN AT B-B



SECTION AT A - A

Parapet Wall Tie-up Details

OWNER DETAILS :		BUILDING DETAILS :		OFFICIAL USE		CONSULTANT :	
		TYPE OF BLDG.	TYPE 'B' (SAP)			GHAR ENGINEERING CONSULTANCY	
		PROPOSE OF BLDG.	RESIDENTIAL			POKHARA-8, NEWROAD	
		PLINTH AREA	72.65 Sq.Mtrs.			REG. NO.	
		PROPOSED FLOOR AREA				CAD BY	SUSHMA DEVKOTA
		GROUND FLOOR	72.65 Sq.Mtrs.			STRUCTURED BY	ER. ACHYUT BHANDARI
		FIRST FLOOR	74.65 Sq.Mtrs.				
		SECOND FLOOR	-				
MARGA		TOTAL FLOOR AREA	147.3 Sq.Mtrs.			SCALE	+ 2000 +
PLOT NO.		COVERAGE AREA	53.02%			ISSUE DATE	MANGSIR-2081
LAND AREA	137.00 Sq. Mtrs.(1472.94 Sq.Ft.)	FLOOR AREA RATIO	1.07			SHEET NO.	S12