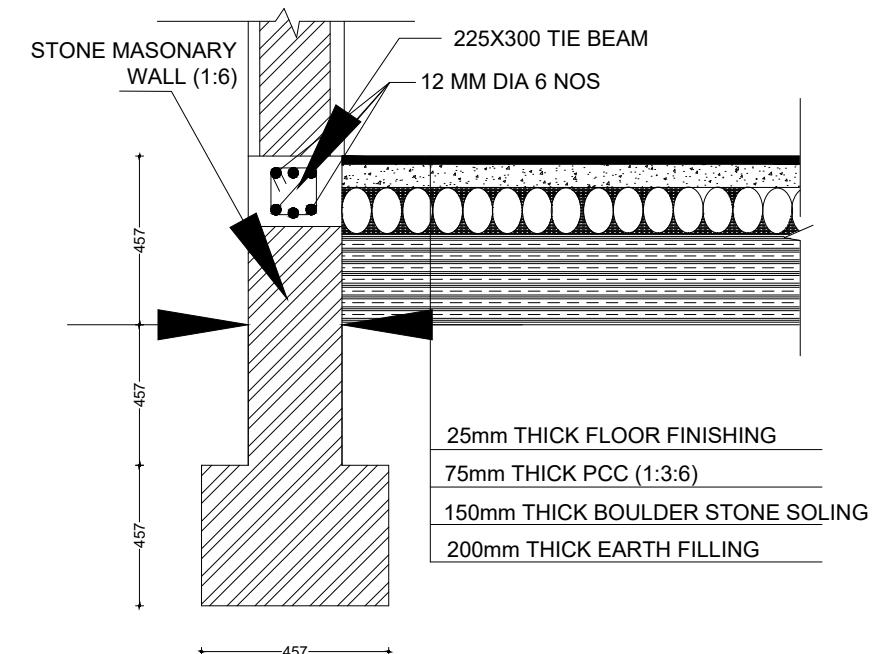


FOOTING LAYOUT PLAN

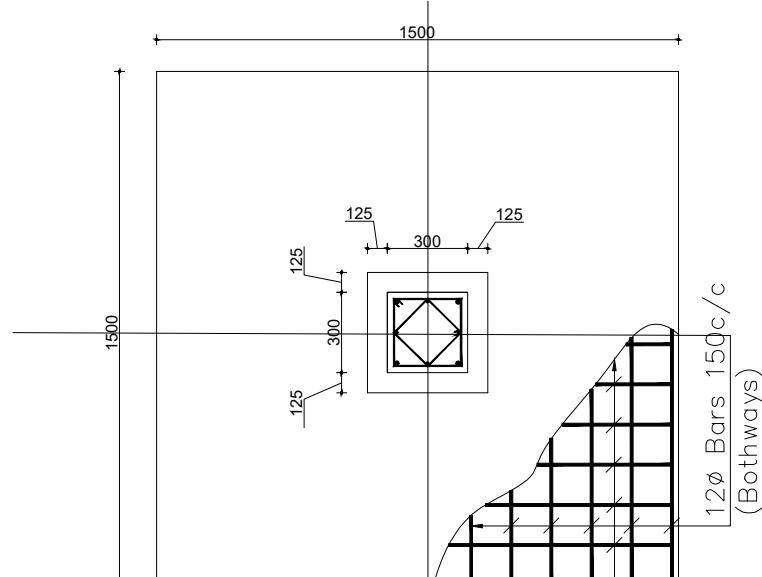
TABLE OF FOOTING REINFORCEMENT

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

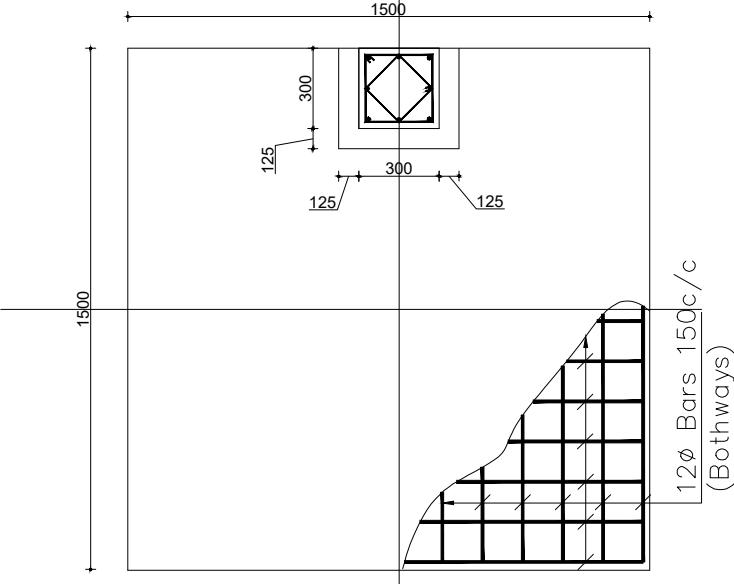


FOUNDATION WALL
DETAIL

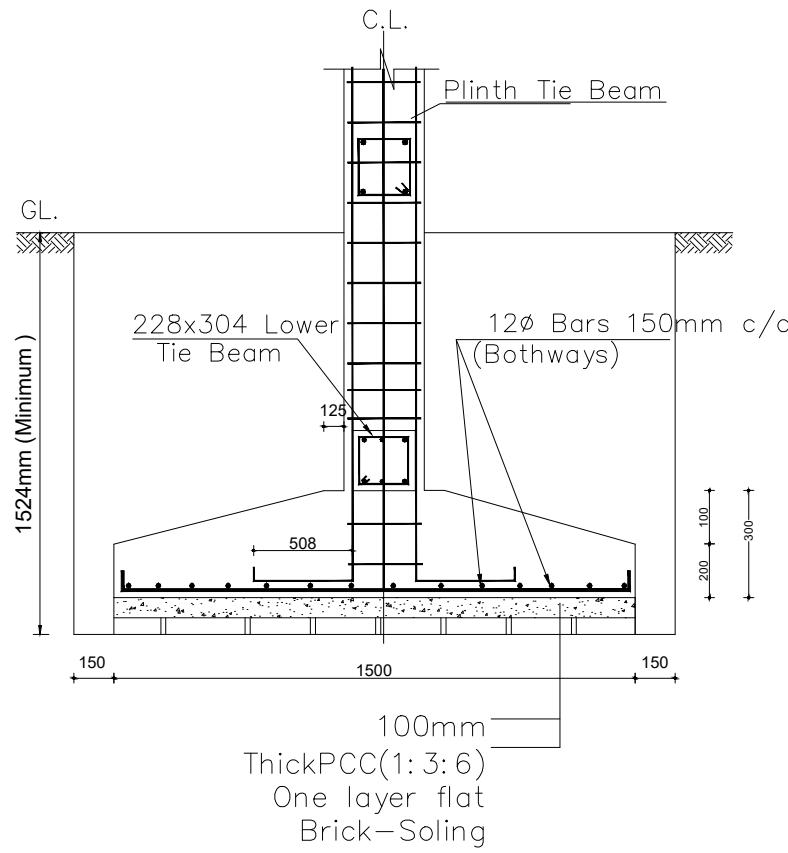
OWNER DETAILS :		BUILDING DETAILS :	OFFICIAL USE	CONSULTANT :
MARGA		TYPE OF BLDG. TYPE 'B' (SAP)		GHAR ENGINEERING CONSULTANCY POKHARA-8, NEWROAD
PLOT NO.		PROPOSE OF BLDG. RESIDENTIAL		REG. NO. _____
LAND AREA	137.00 Sq. Mtrs.(1472.94 Sq.Ft.)	PLINTH AREA 72.65 Sq.Mtrs.		CAD BY SUSHMA DEVKOTA
		PROPOSED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



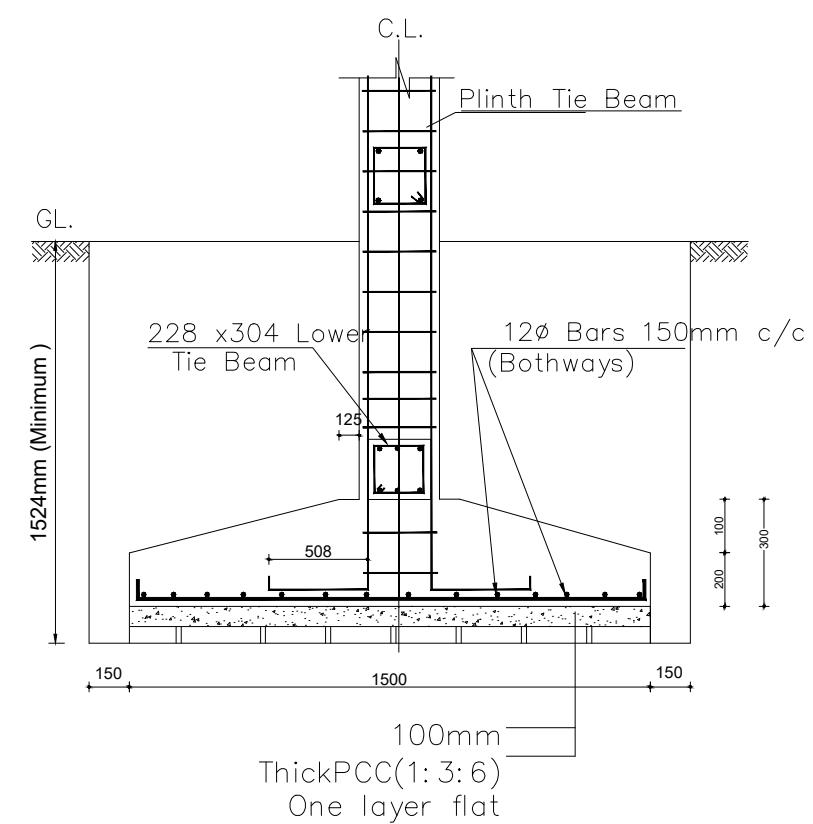
F1(ISOLATED)- PLAN



F2(ECCENTRIC)- PLAN

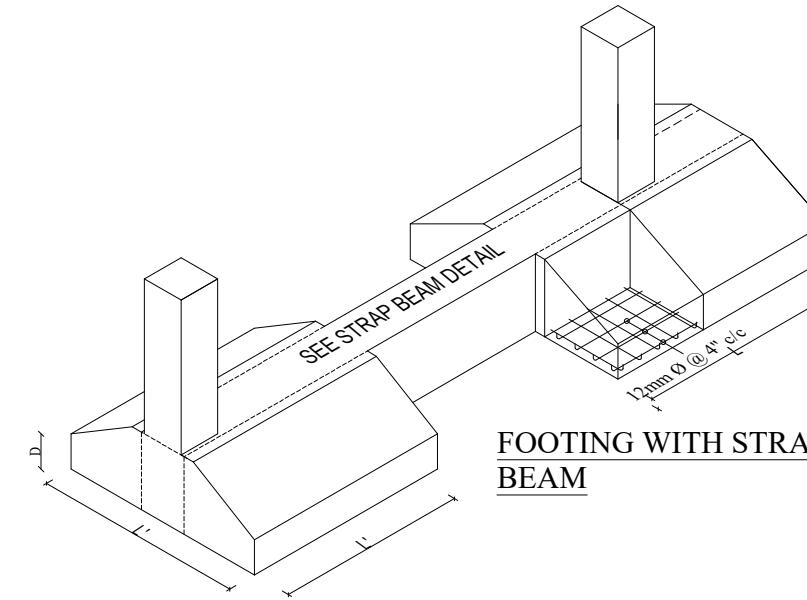
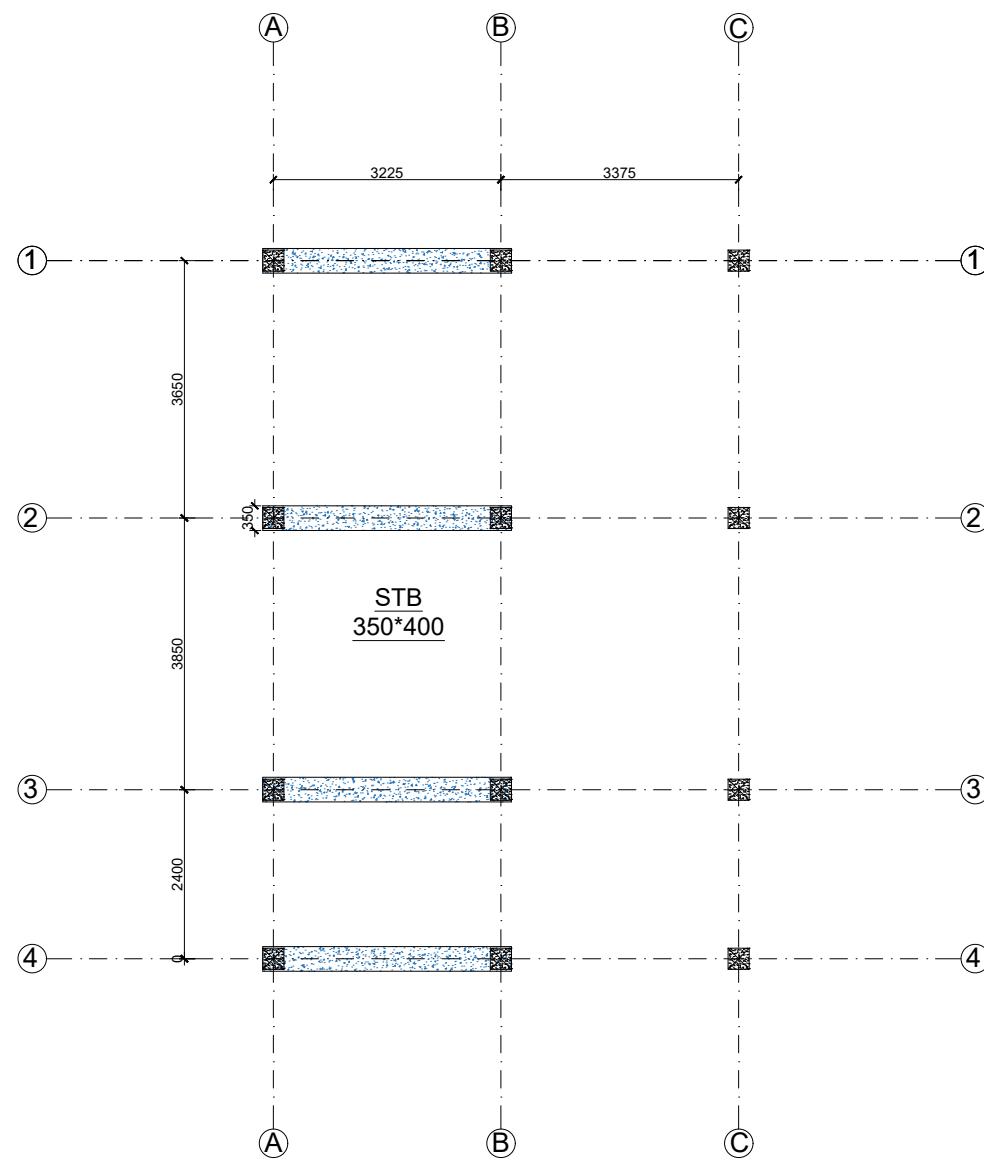


FOOTING (F1 ISOLATED)

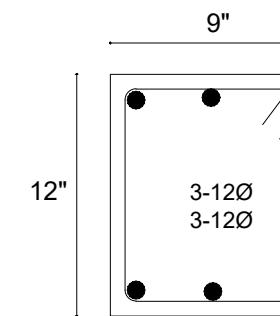


FOOTING (F2 ECCENTRIC)

OWNER DETAILS :		BUILDING DETAILS :	OFFICIAL USE	CONSULTANT :
		TYPE OF BLDG. TYPE 'B' (SAP) PROPOSE OF BLDG. RESIDENTIAL PLINTH AREA 72.65 Sq.Mtrs. PROPOSED FLOOR AREA		GHAR ENGINEERING CONSULTANCY POKHARA-8, NEWROAD
		GROUND FLOOR 72.65 Sq.Mtrs. FIRST FLOOR 74.65 Sq.Mtrs. SECOND FLOOR - TOTAL FLOOR AREA 147.3 Sq.Mtrs. COVERAGE AREA 53.02%		REG. NO. SUSHMA DEV/KOTA CAD BY ER. ACHYUT BHANDARI STRUCTURED BY
MARGA				
PLOT NO.				SCALE 2000 ISSUE DATE MANGSIR-2081
LAND AREA	137.00 Sq. Mtrs.(1472.94 Sq.Ft.)	FLOOR AREA RATIO 1.07		SHEET NO. S2



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

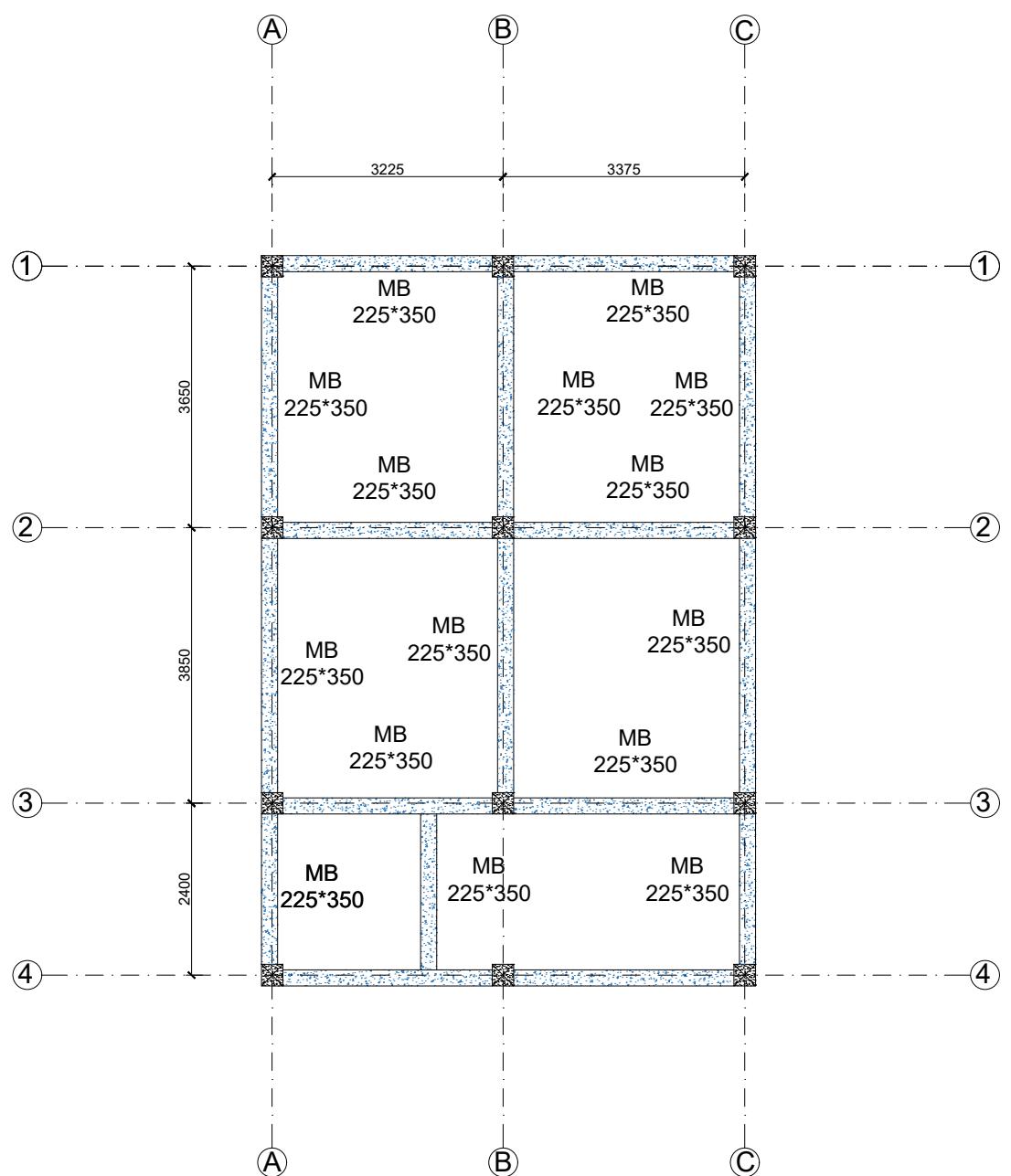


All tie - beam size = 225 x 300 mm
Concrete Grade for tie beam = M20
Steel grade = Designed for Fe 500
Cover = 35 mm

ALL TIE BEAM: TB1

STRAP BEAM LAYOUT

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

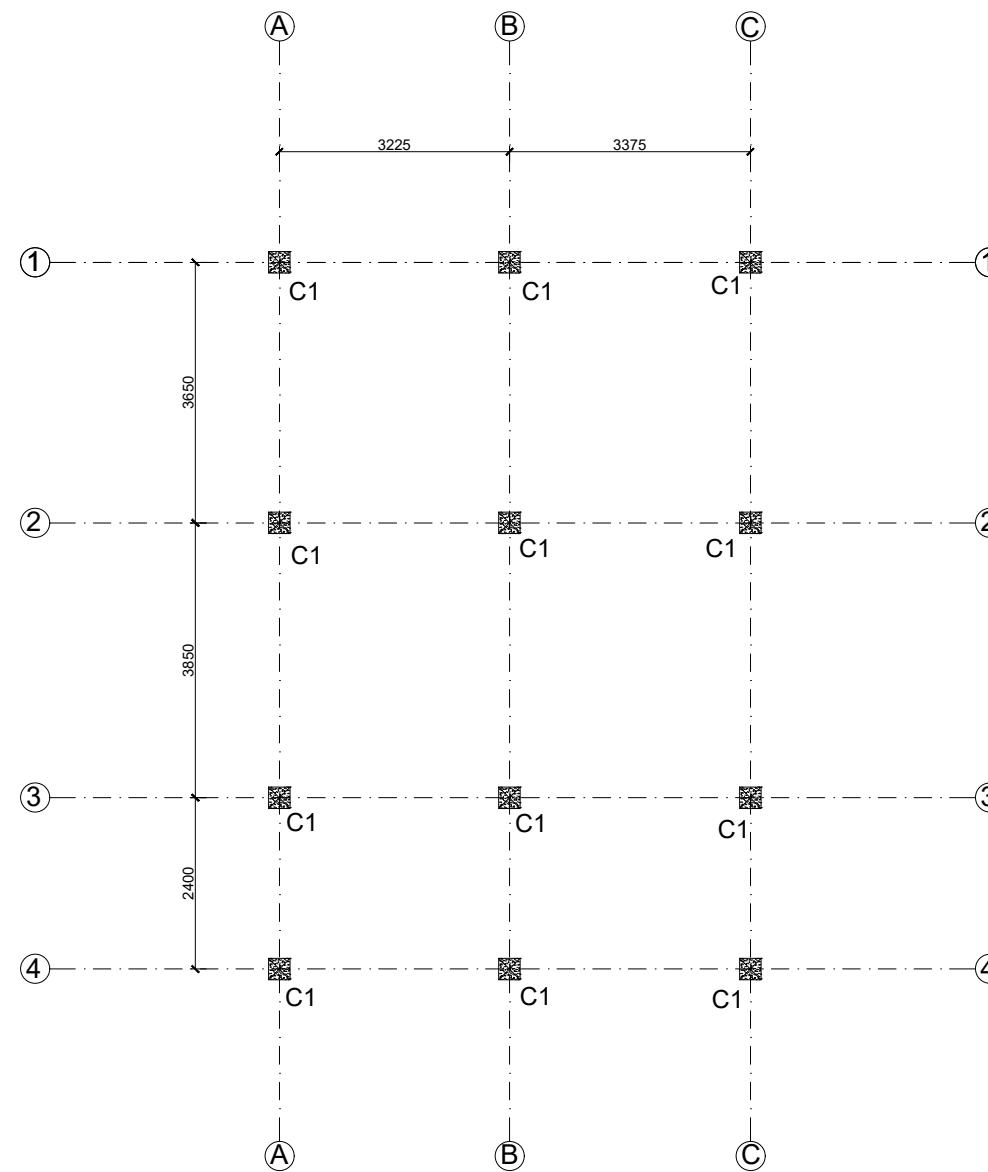


FLOOR BEAM LAYOUT

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

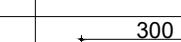


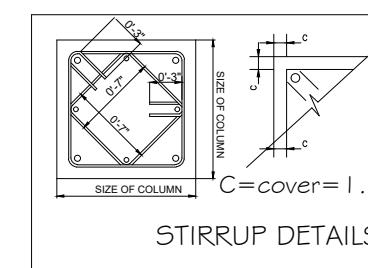
COLUMN LAYOUT PLAN

COLUMN DETAILS

Fe 500, $f_y = 20$ MPa

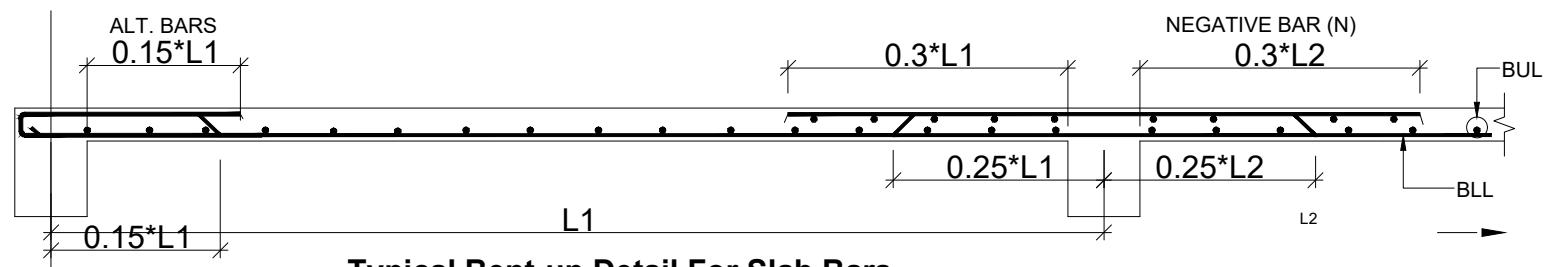
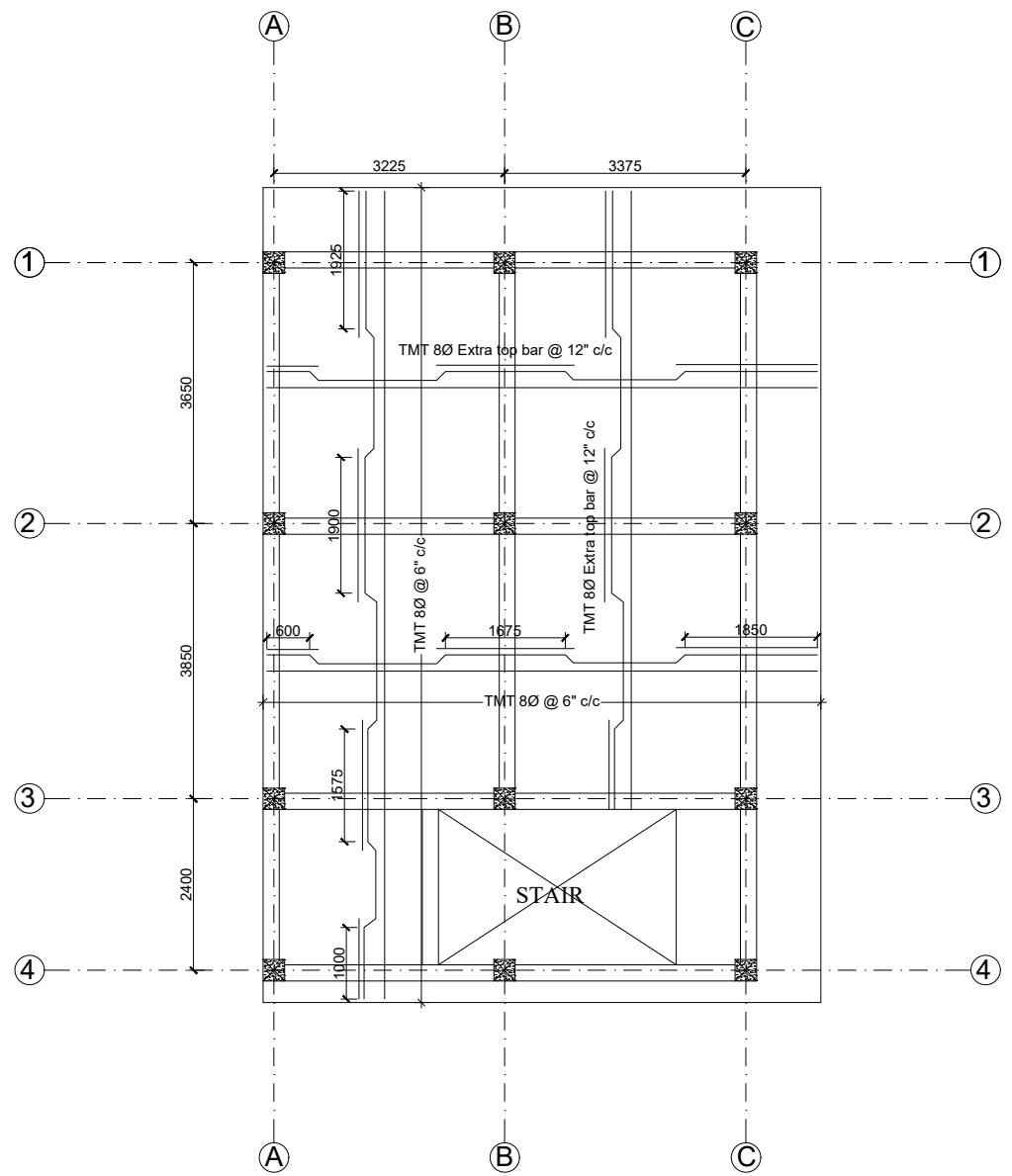
Stirrups 8Ø @ 100mm & 150mm c/c

TYPE	SIZE	NOS	GROUND FLOOR	FIRST FLOOR
C1	300x300	12	 300	 300



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

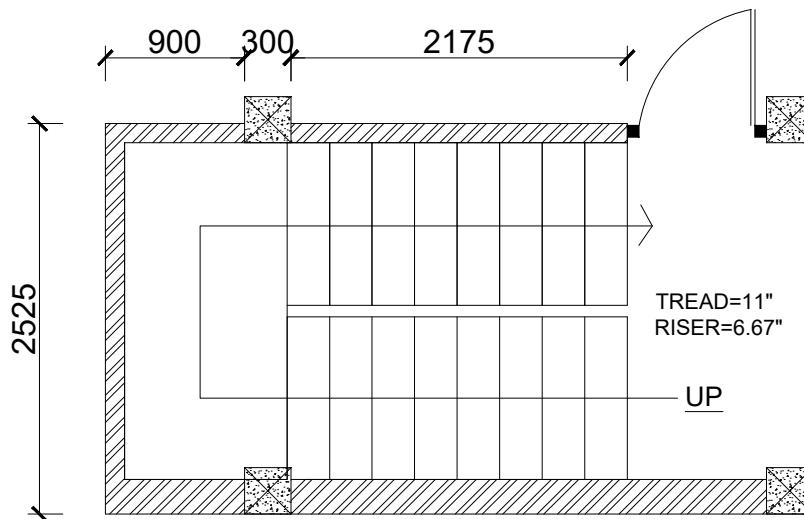
OWNER DETAILS :		BUILDING DETAILS :		OFFICIAL USE		CONSULTANT :	
		Type of Bldg.	Type 'B' (SAP)				
		Propose of Bldg.	Residential			Ghar Engineering Consultancy Pokhara-8, Newroad	
		Plinth Area	72.65 Sq.Mtrs.			Reg. No.	
		PROPOSED FLOOR AREA				Cad By	Sushma Devkota
		Ground Floor	72.65 Sq.Mtrs.			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.	S5



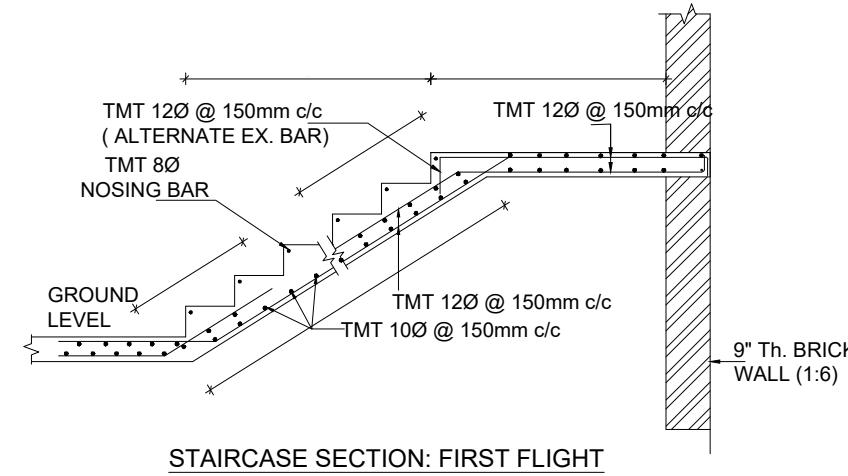
Typical Bent-up Detail For Slab Bars

SLAB REINFORCEMENT LAYOUT PLAN

OWNER DETAILS :		BUILDING DETAILS :	OFFICIAL USE	CONSULTANT :
		TYPE OF BLDG. TYPE 'B' (SAP) PROPOSE OF BLDG. RESIDENTIAL PLINTH AREA 72.65 Sq.Mtrs.		GHAR ENGINEERING CONSULTANCY POKHARA-8, NEWROAD
		PROPOSED FLOOR AREA GROUND FLOOR 72.65 Sq.Mtrs. FIRST FLOOR 74.65 Sq.Mtrs. SECOND FLOOR -		REG. NO. _____ CAD BY SUSHMA DEVKOTA STRUCTURED BY ER. ACHYUT BHANDARI
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. S6

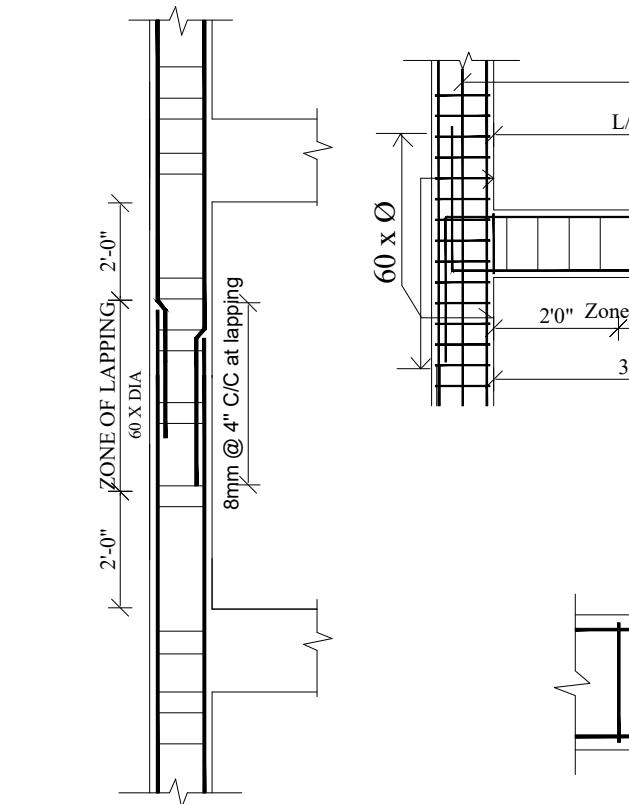


STAIRCASE PLAN

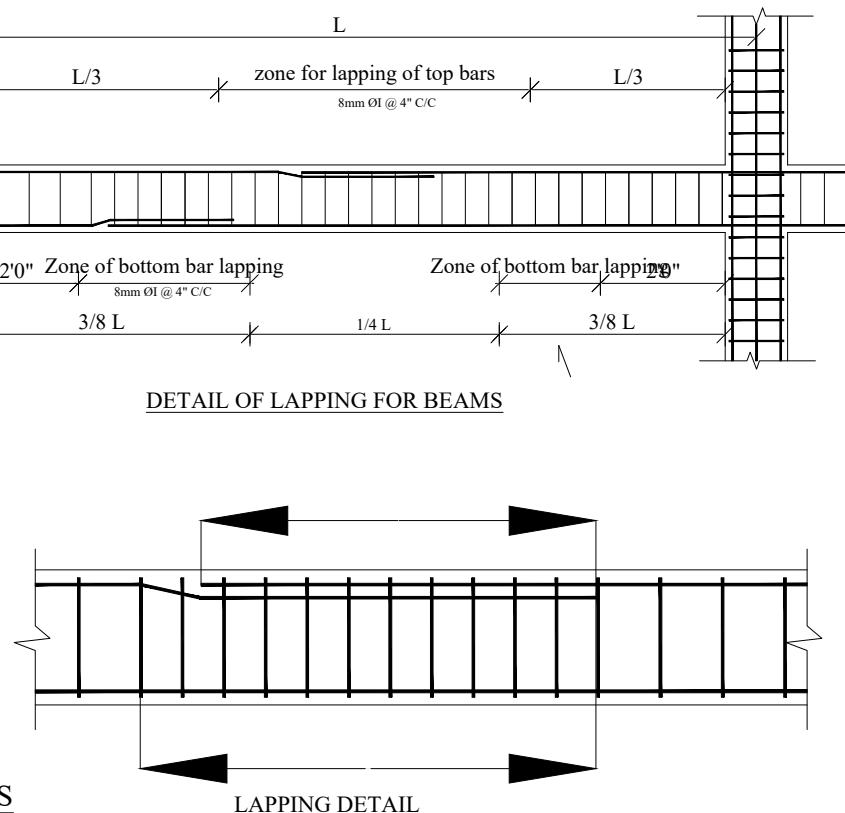


A technical drawing showing a stepped concrete foundation. The top horizontal beam is labeled "TMT 12Ø @ 150mm c/c". The bottom horizontal beam is labeled "TMT 10Ø @ 150mm c/c". The vertical wall on the right is labeled "9\" Th. BRICK WALL (1:6)". The drawing shows a stepped foundation with reinforcement bars (TMT) placed at 150mm center-to-center.

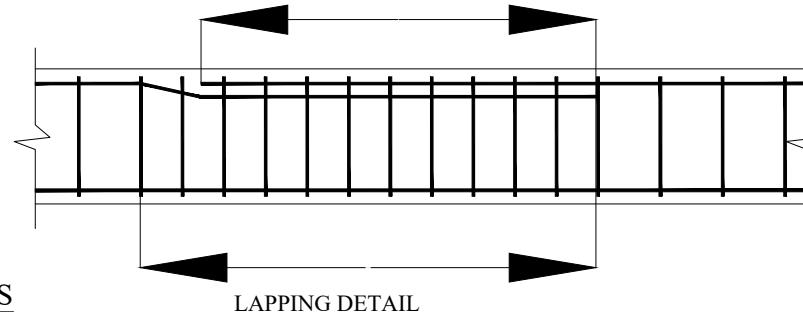
STAIRCASE SECTION: SECOND FLIGHT



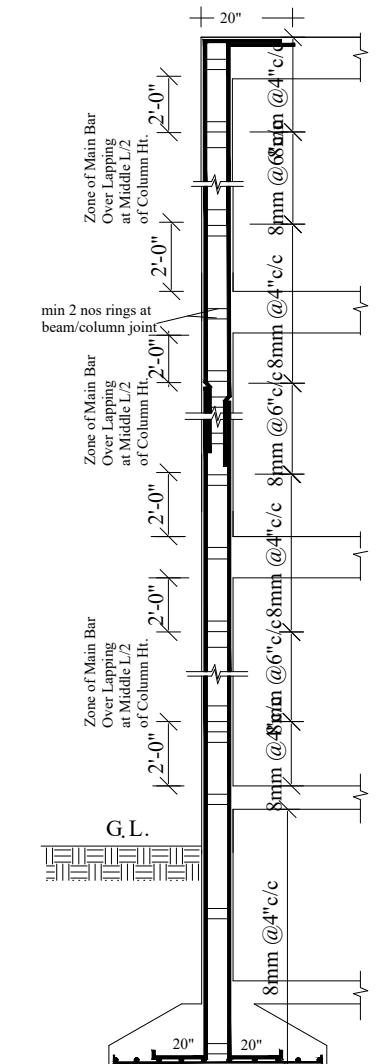
DETAILS OF LAPING FOR COLUMNS



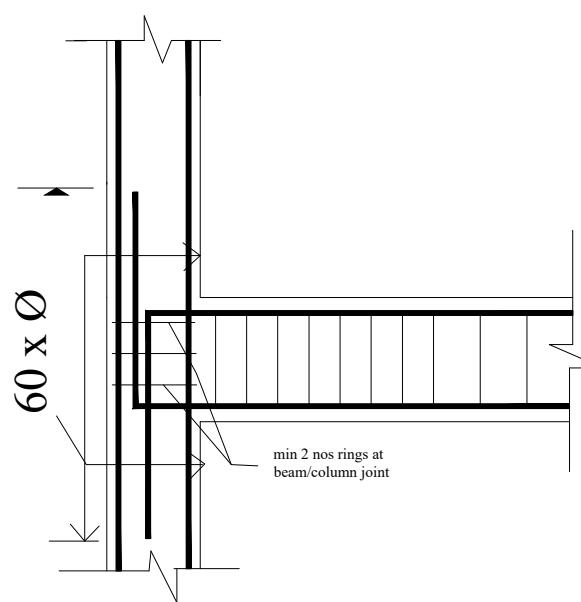
DETAIL OF LAPING FOR BEAMS



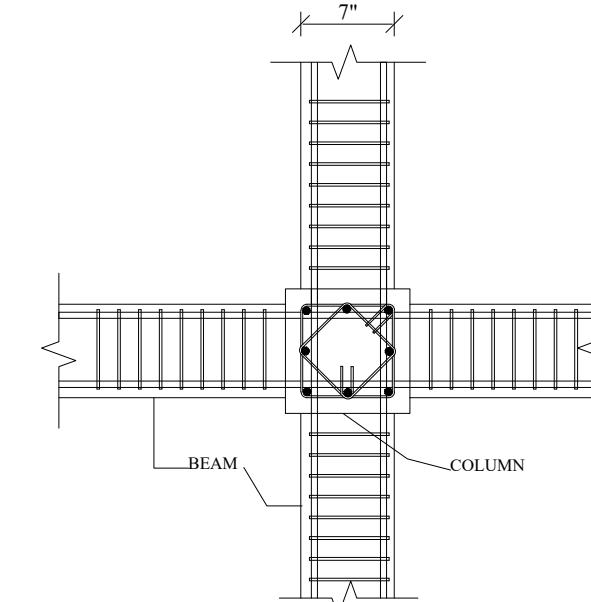
LAPPING DETAIL



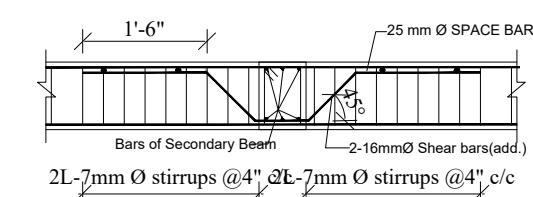
VERTICAL SECTION OF COLUMNS



BEAM/COLUMN JOINT

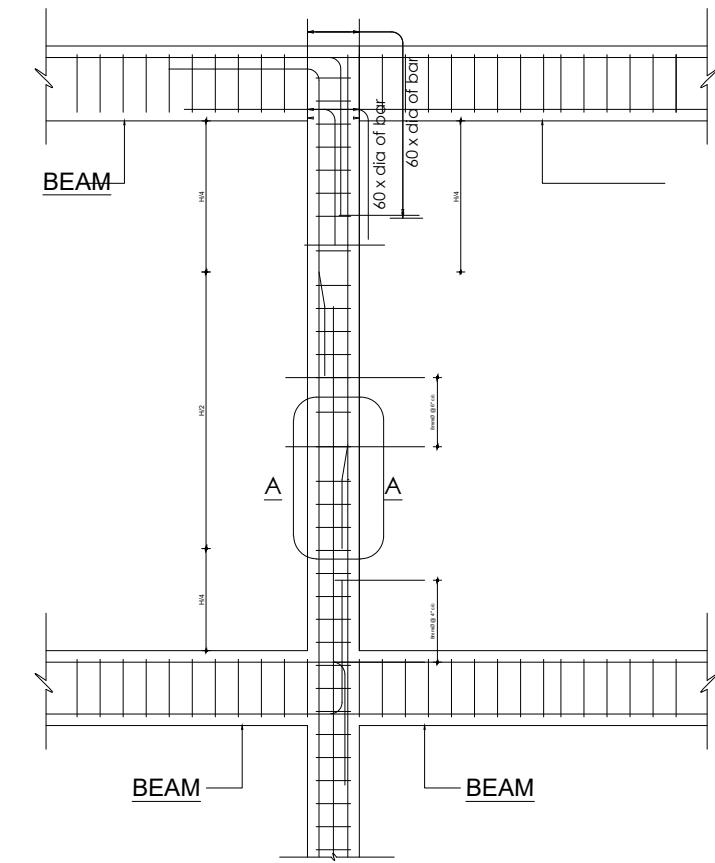
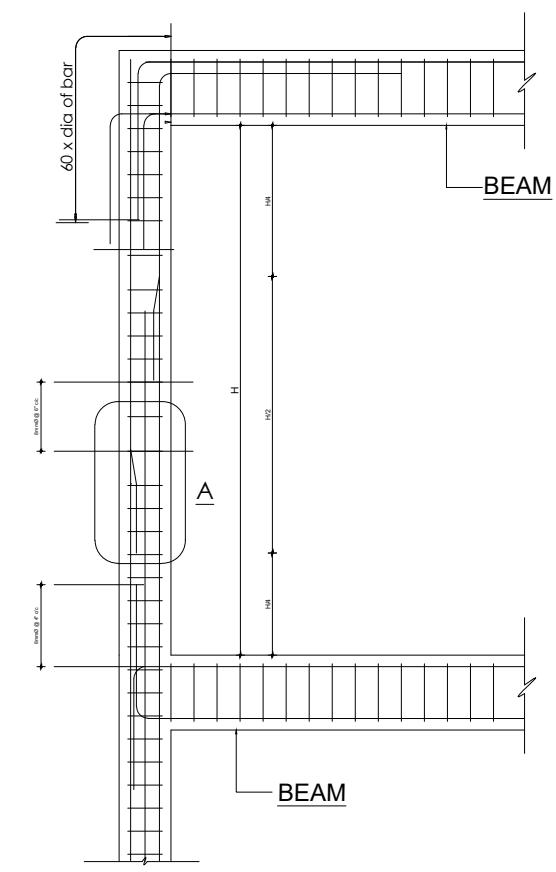
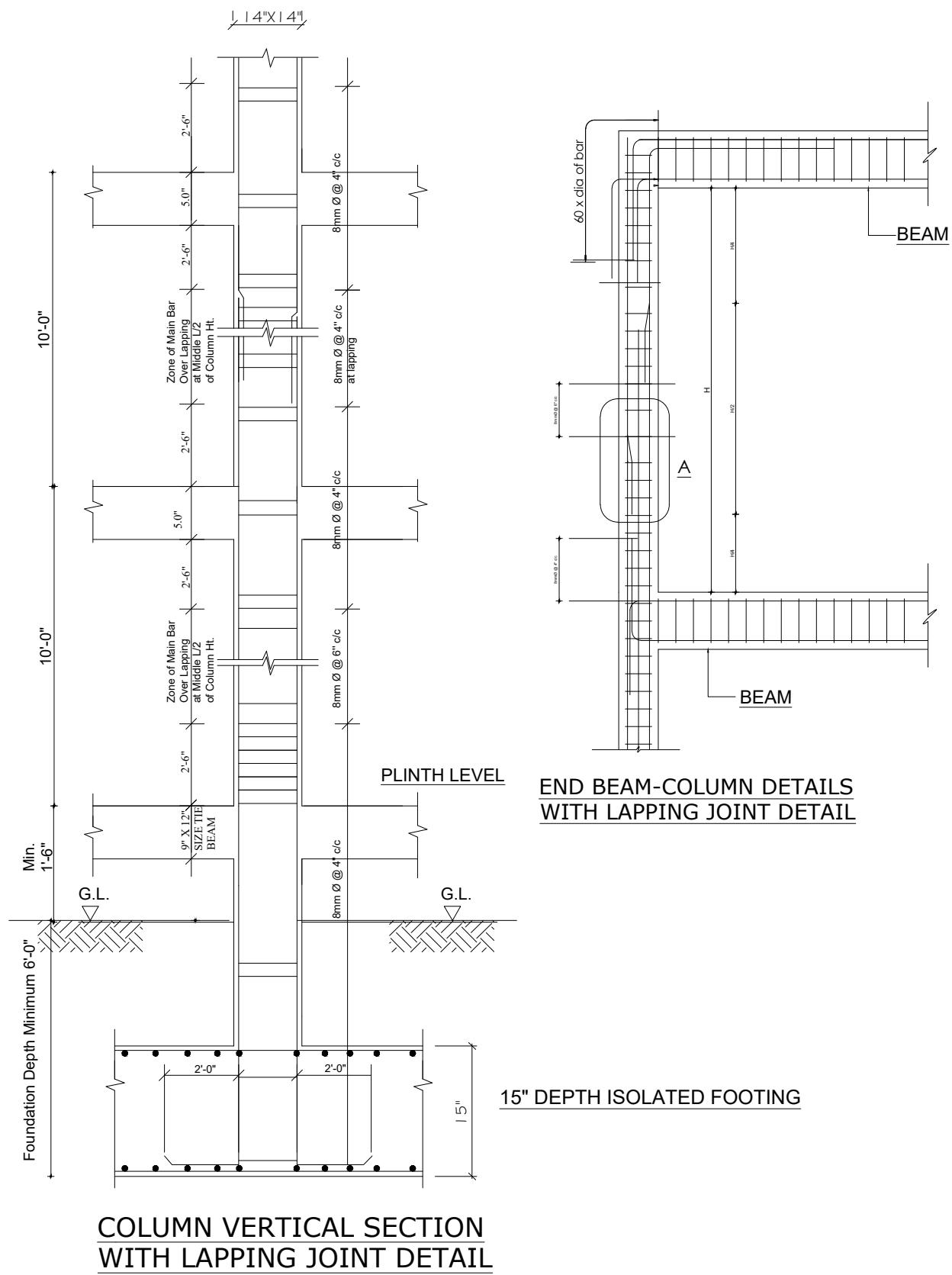


BEAM & COLUMN JUNCTION DETAIL PLAN
12"X12" COLUMN



L- SECTION OF BEAM AT POINT LOAD

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
		GROUND FLOOR 72.65 Sq.Mtrs.		STRUCTURED BY
		FIRST FLOOR 74.65 Sq.Mtrs.		ER. ACHYUT BHANDARI
		SECOND FLOOR -		
MARGA		TOTAL FLOOR AREA 147.3 Sq.Mtrs.		
PLOT NO.		COVERAGE AREA 53.02%		
LAND AREA	137.00 Sq. Mtrs.(1472.94 Sq.Ft.)	FLOOR AREA RATIO 1.07		SCALE + 2000 +
				ISSUE DATE MANGSIR-2081
				SHEET NO. S9

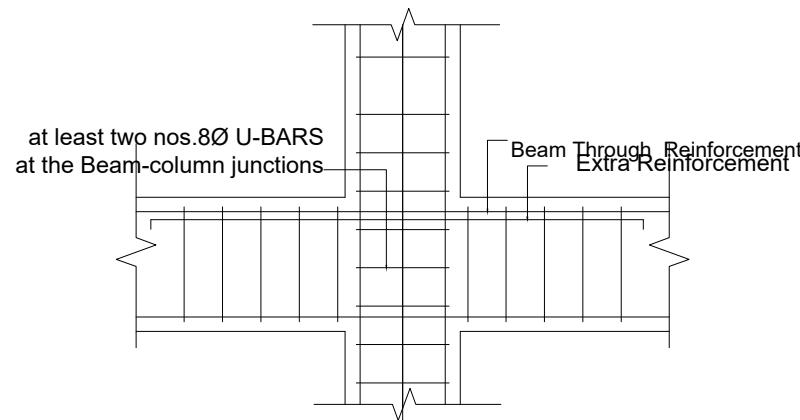


OWNER DETAILS :	
MARGA	
PLOT NO.	
LAND AREA	137.00 Sq. Mtrs.(1472.94 Sq.Ft.)

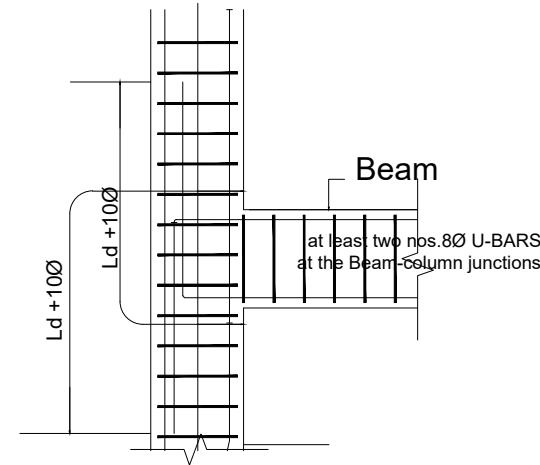
BUILDING DETAILS :	
TYPE OF BLDG.	TYPE 'B' (SAP)
PROPOSE OF BLDG.	RESIDENTIAL
PLINTH AREA	72.65 Sq.Mtrs.
PROPOSED FLOOR AREA	
GROUND FLOOR	72.65 Sq.Mtrs.
FIRST FLOOR	74.65 Sq.Mtrs.
SECOND FLOOR	-
TOTAL FLOOR AREA	147.3 Sq.Mtrs.
COVERAGE AREA	53.02%
FLOOR AREA RATIO	1.07

OFFICIAL USE

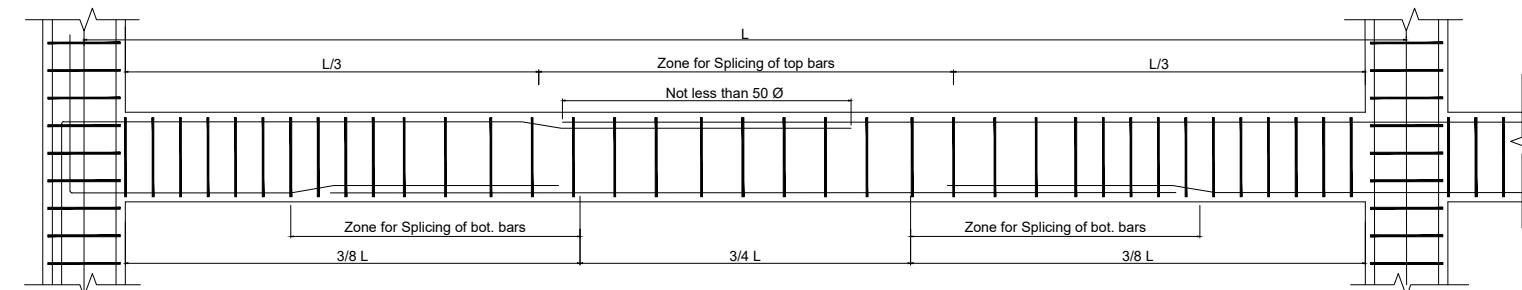
CONSULTANT :	
GHAR ENGINEERING CONSULTANCY	
POKHARA-8, NEWROAD	
REG. NO.	
CAD BY	SUSHMA DEV/KOTA
STRUCTURED BY	ER. ACHYUT BHANDARI
SCALE	2000
ISSUE DATE	MANGSIR-2081
SHEET NO.	S10



Typical Column & Beam Section

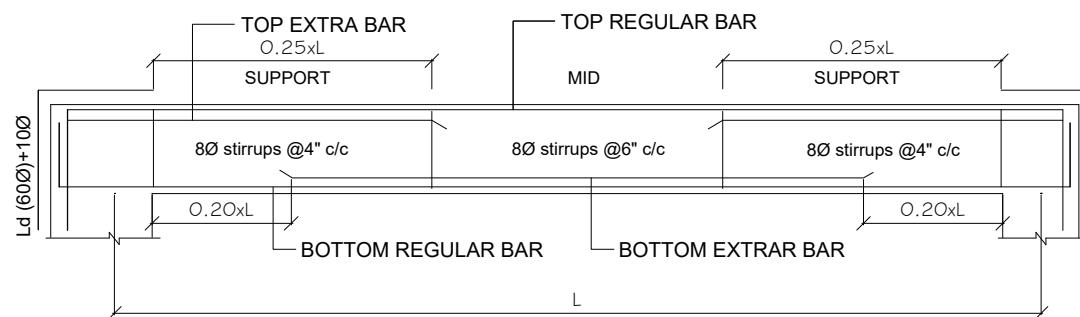


Typical Bar Bending Details of Beam at supports



Bar Lapping Detail (Beam)

DUCTILE DETAILINGS FOR BEAM AND COLUMN



KEY L- SECTION OF BEAM

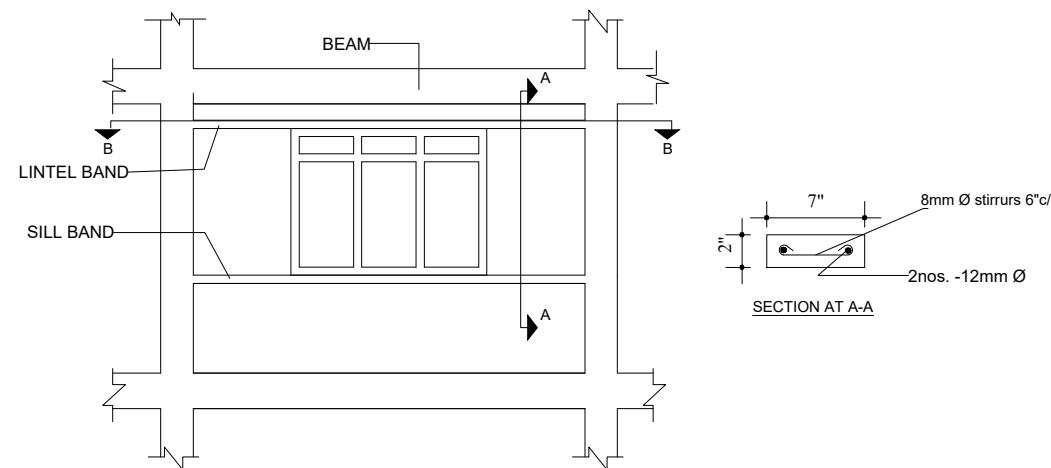
OWNER DETAILS :

BUILDING DETAILS :	
TYPE OF BLDG.	TYPE 'B' (SAP)
PROPOSE OF BLDG.	RESIDENTIAL
PLINTH AREA	72.65 Sq.Mtrs.
PROPOSED FLOOR AREA	
GROUND FLOOR	72.65 Sq.Mtrs.
FIRST FLOOR	74.65 Sq.Mtrs.
SECOND FLOOR	-
TOTAL FLOOR AREA	147.3 Sq.Mtrs.
COVERAGE AREA	53.02%
FLOOR AREA RATIO	1.07
MARGA	
PLOT NO.	
LAND AREA	137.00 Sq. Mtrs.(1472.94 Sq.Ft.)

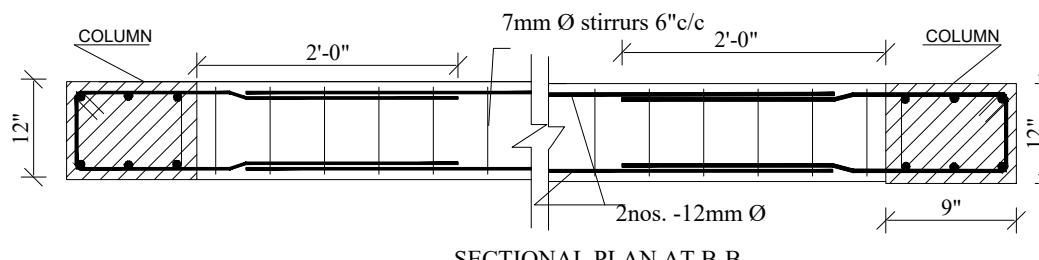
OFFICIAL USE

CONSULTANT :

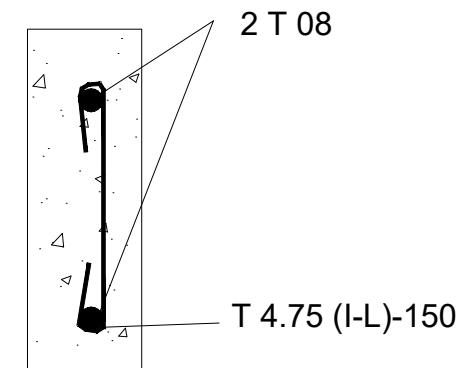
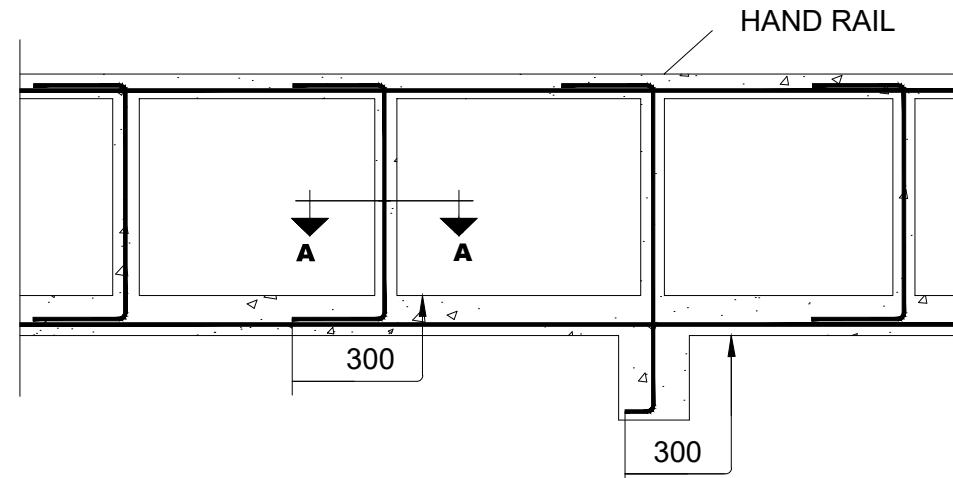
GHAR ENGINEERING CONSULTANCY	
POKHARA-8, NEWROAD	
REG. NO.	
CAD BY	SUSHMA DEVKOTA
STRUCTURED BY	ER. ACHYUT BHANDARI
SCALE	+ 2000 +
ISSUE DATE	MANGSIR-2081
SHEET NO.	S11



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 POKHARA-8, NEWROAD
		PROPOSE OF BLDG. RESIDENTIAL		REG. NO.
		PLINTH AREA 72.65 Sq.Mtrs.		CAD BY SUSHMA DEVKOTA
		PROPOSED FLOOR AREA		STRUCTURED BY ER. ACHYUT BHANDARI
		GROUND FLOOR 72.65 Sq.Mtrs.		
		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