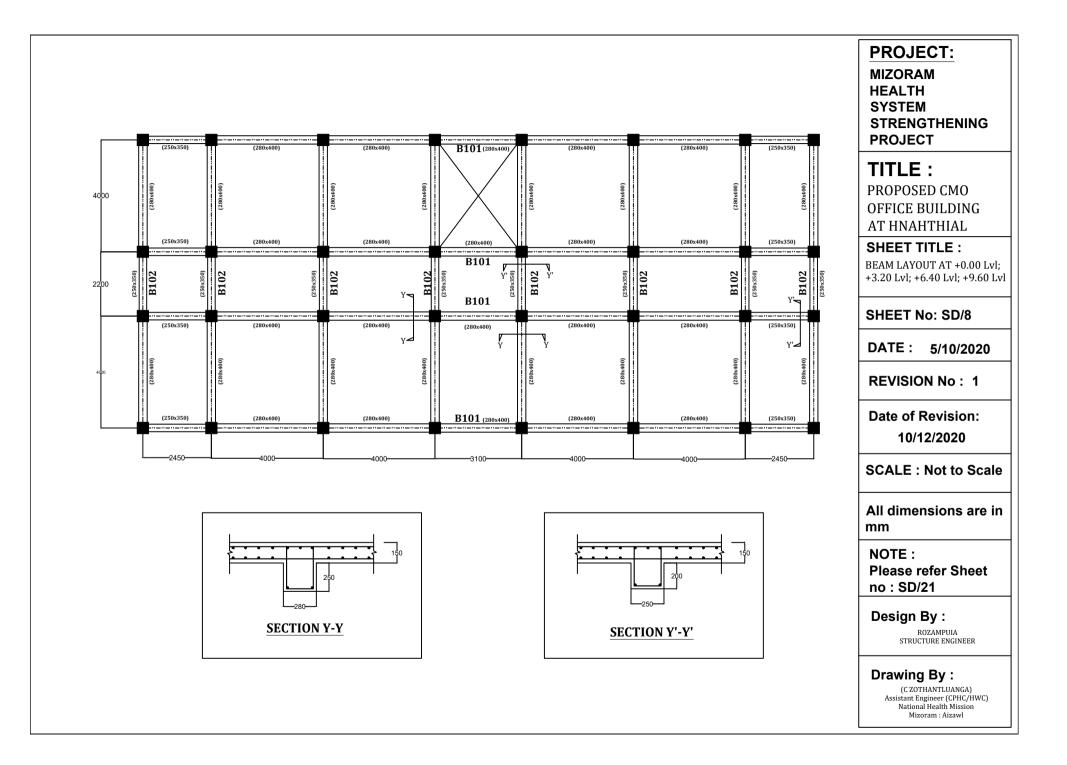
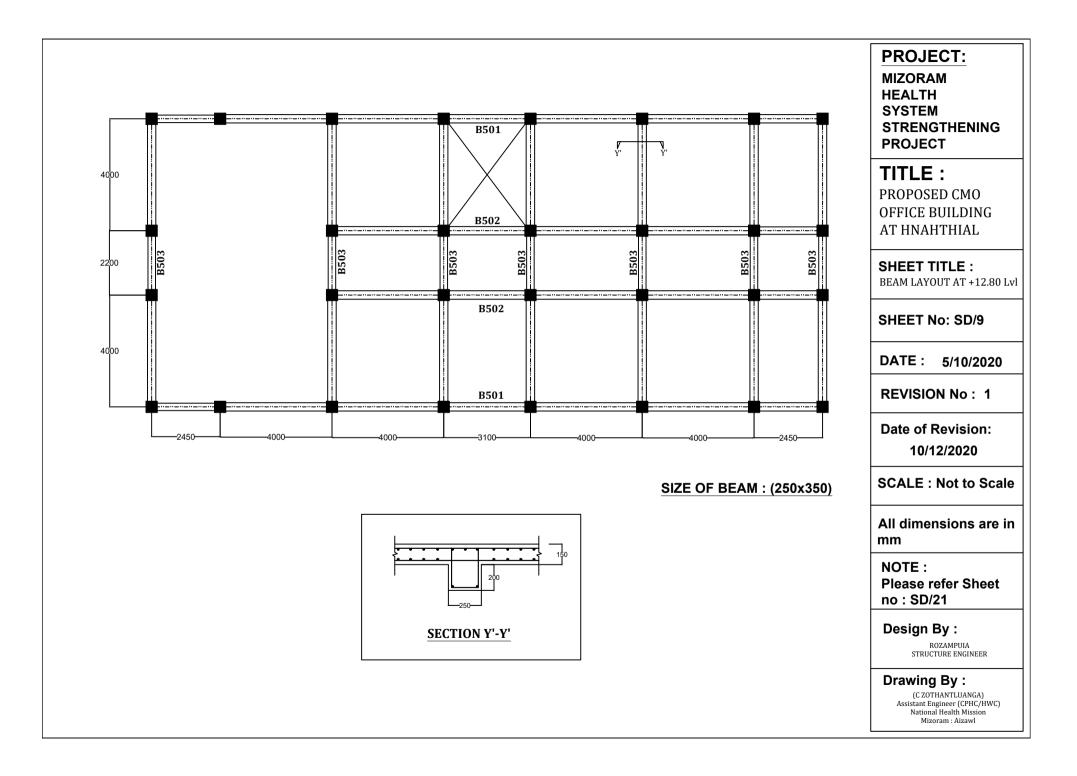
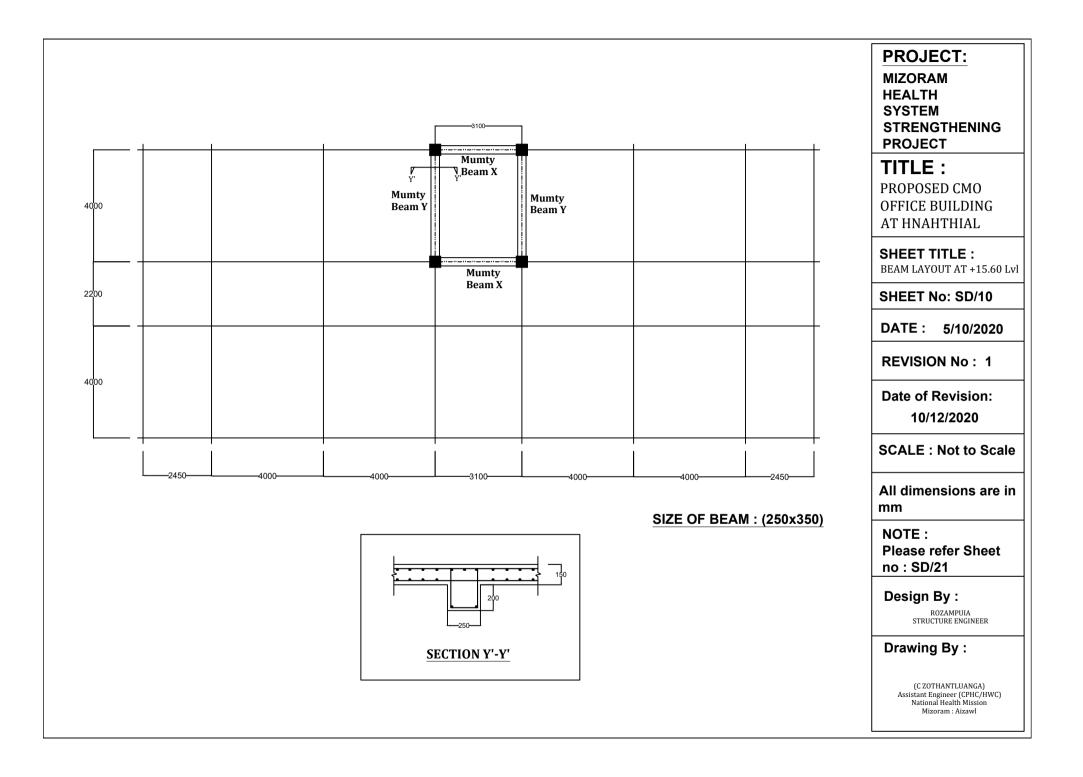


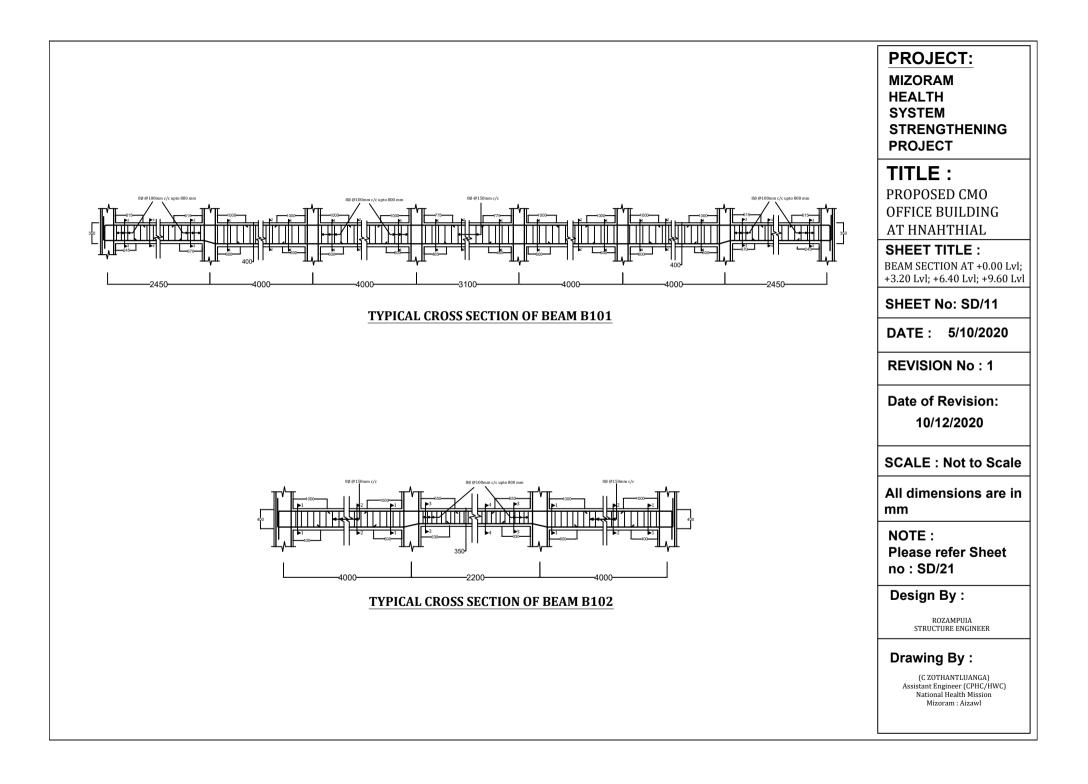
TYPICAL CROSS SECION OF COLUMN

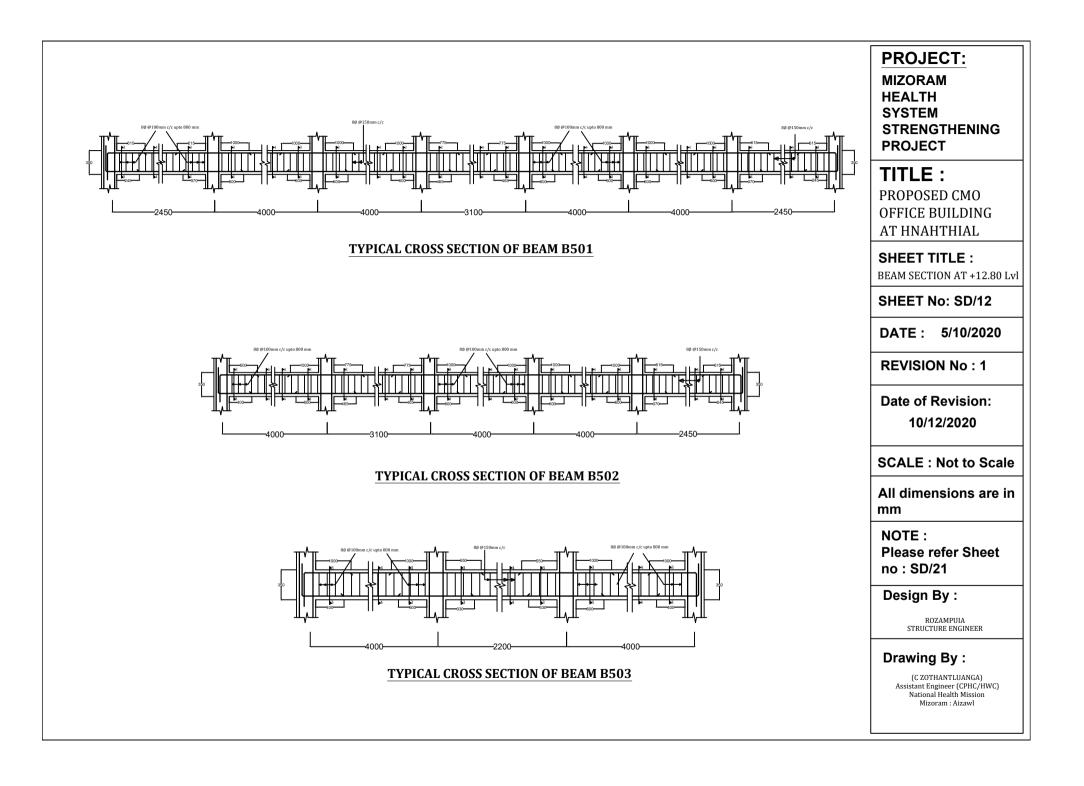
PROJECT: MIZORAM HEALTH SYSTEM STRENGTHENING PROJECT								
TITLE : PROPOSED CMO OFFICE BUILDING AT HNAHTHIAL								
SHEET TITLE : COLUMN DETAILS								
SHEET No: SD/7								
DATE : 5/10/2020								
REVISION No: 1								
Date of Revision: 10/12/2020								
SCALE : Not to Scale								
All dimensions are in mm								
NOTE : Please refer Sheet no : SD/21								
Design By : ROZAMPUIA STRUCTURE ENGINEER								
Drawing By : (C ZOTHANTLUANGA) Assistant Engineer (CPHC/HWC) National Health Mission Mizoram : Aizawi								

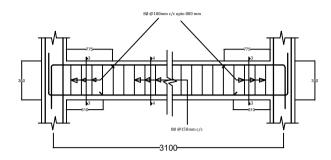




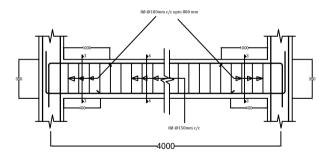






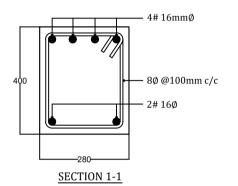


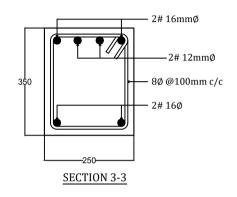
TYPICAL CROSS SECTION OF MUMTY BEAM X

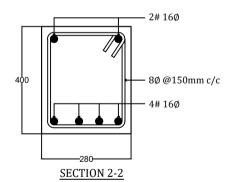


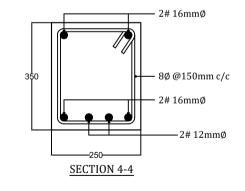
TYPICAL CROSS SECTION OF MUMTY BEAM Y

PROJECT: MIZORAM HEALTH SYSTEM STRENGTHENING PROJECT									
TITLE : PROPOSED CMO OFFICE BUILDING AT HNAHTHIAL									
SHEET TITLE : BEAM SECTION AT +15.60 Lvl									
SHEET No: SD/13									
DATE: 5/10/2020									
REVISION No : 1									
Date of Revision: 10/12/2020									
SCALE : Not to Scale									
All dimensions are in mm									
NOTE : Please refer Sheet no : SD/21									
Design By :									
ROZAMPUIA STRUCTURE ENGINEER									
Drawing By : (C ZOTHANTLUANGA) Assistant Engineer (CPHC/HWC) National Health Mission Mizoram : Aizawl									

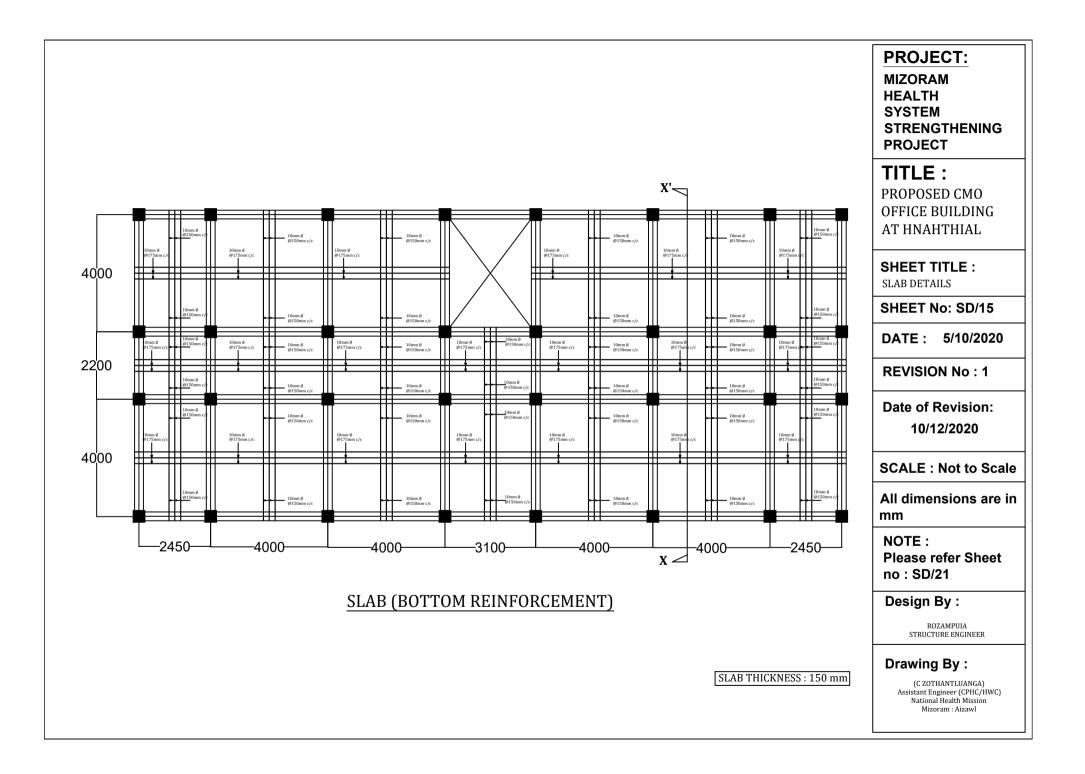


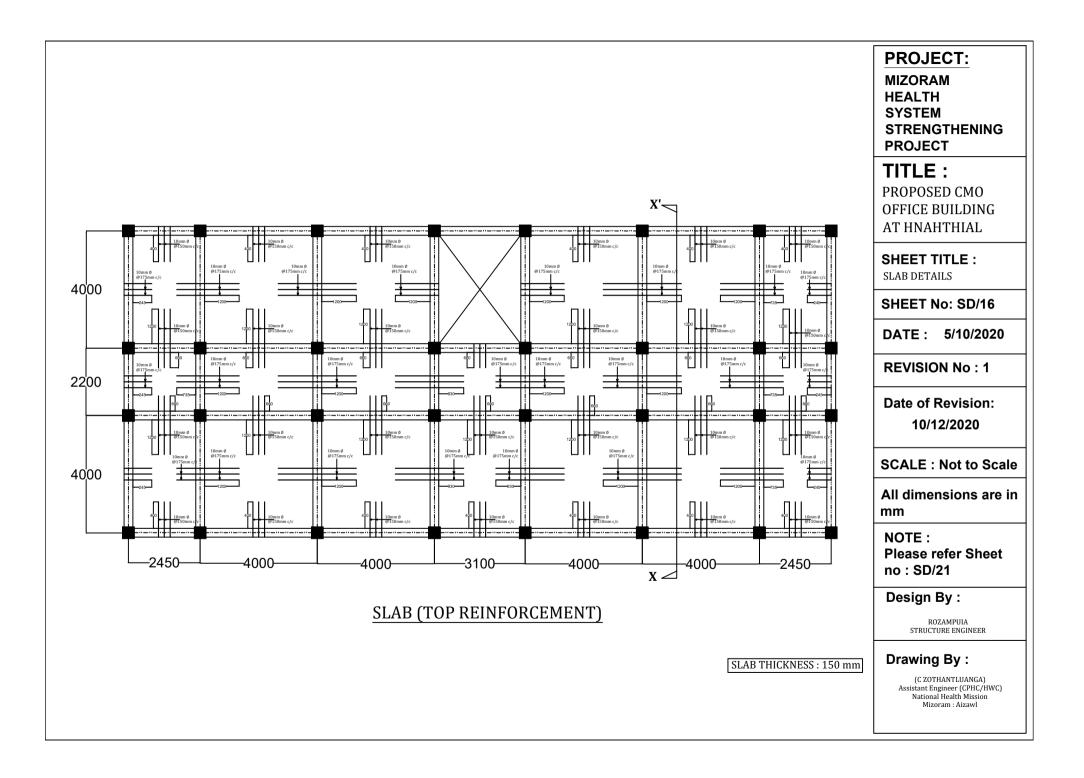


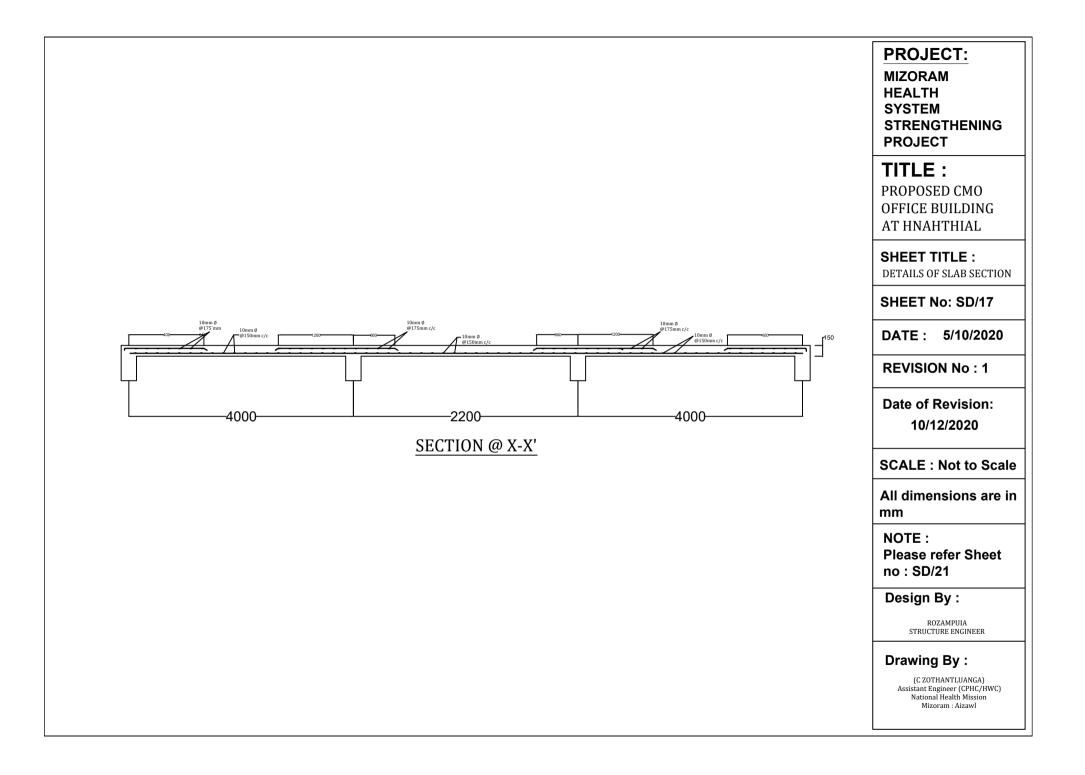


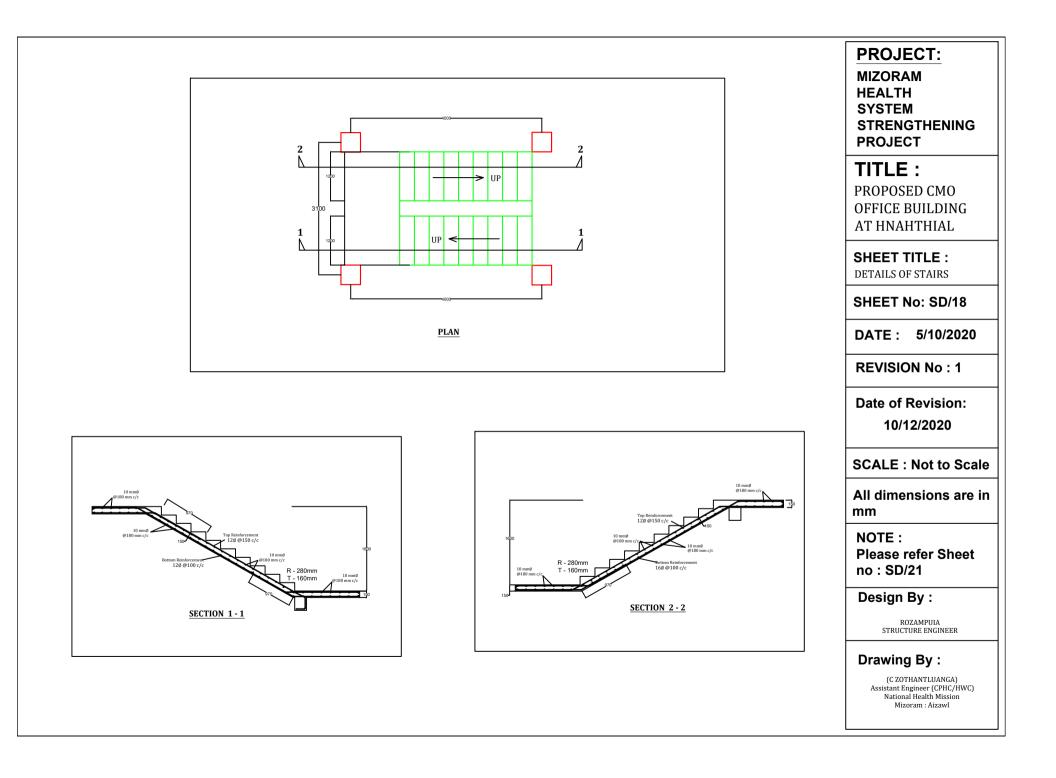


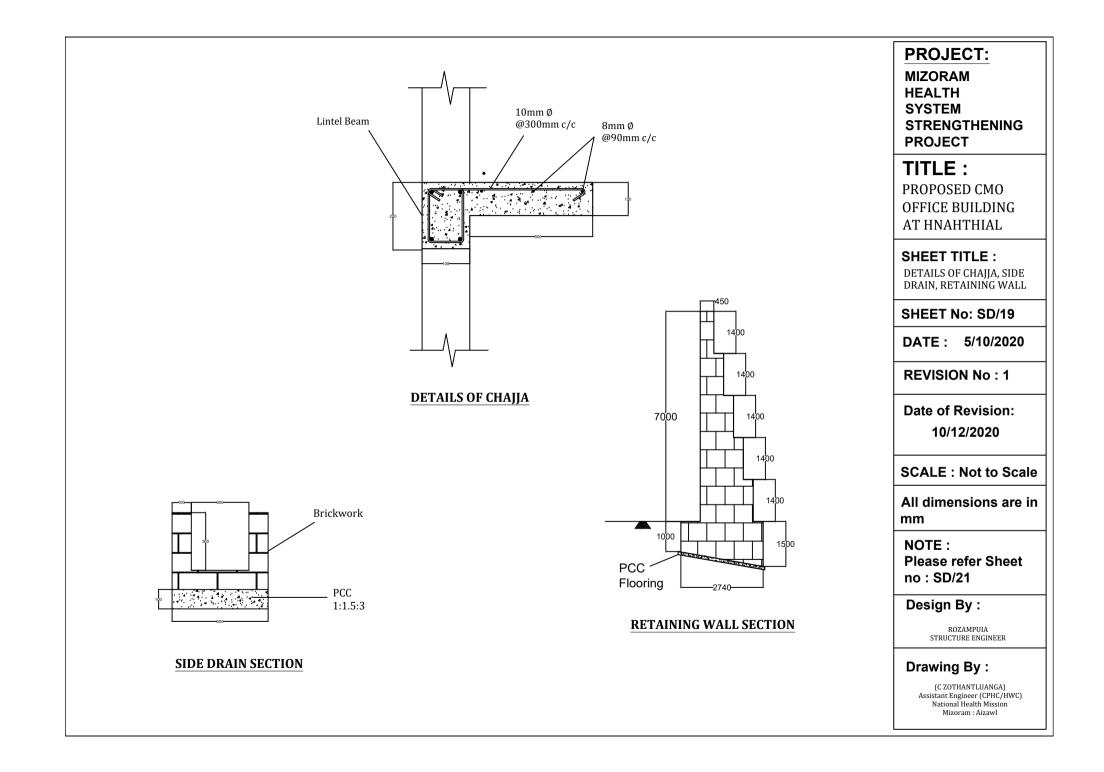
PROJECT: MIZORAM HEALTH SYSTEM STRENGTHENING PROJECT							
TITLE : PROPOSED CMO OFFICE BUILDING AT HNAHTHIAL							
SHEET TITLE : BEAM SECTION DETAILS							
SHEET No: SD/14							
DATE : 5/10/2020							
REVISION No : 1							
Date of Revision: 10/12/2020							
SCALE : Not to Scale							
All dimensions are in mm							
NOTE : Please refer Sheet no : SD/21							
Design By :							
ROZAMPUIA STRUCTURE ENGINEER							
Drawing By : (C ZOTHANTLUANGA) Assistant Engineer (CPHC/HWC) National Health Mission Mizoram : Aizawl							

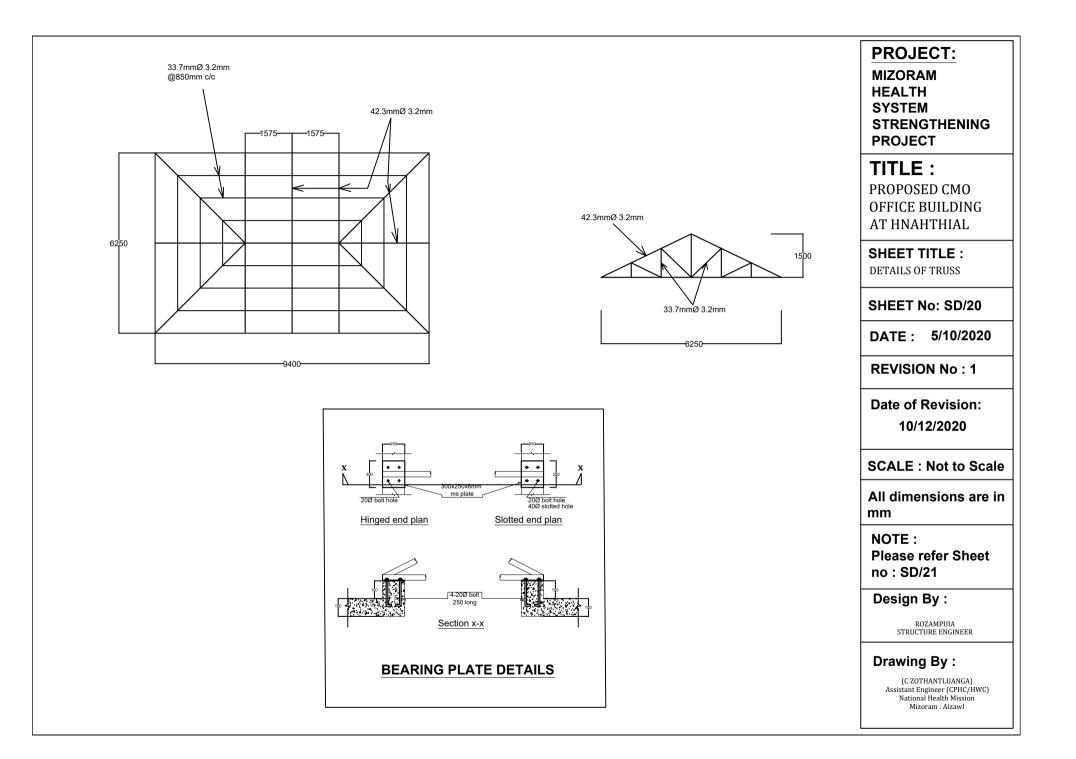












							GENERAL NOTES				PROJECT:
											MIZORAM
1.	GEN	NERAL	:								HEALTH
	l.1			cale the drawings Work to	3.2	LOADS:			4.1.3	Back filling shall be done in layers not	SYSTEM
1	1			cale the drawings. Work to		3.2.1	Dead Loads: The dead loads considered for			exceeding 200mm thickness.	STRENGTHENING
	written dimensions only. 1.2 All dimensions are in millimetres unless					structural design are weight of slabs, beams,		4.1.4	All works below ground level shall be	PROJECT	
	1.2	otherwi					columns, walls and floor finishes.		415	executed in dry conditions.	FROJECT
	L.3			to be followed in conjunction			Thickness and materials of walls and floor finishes are taken as per architectural		4.1.5	Minimum depth of foundation shall be 1.8m below firm ground.	
-				on drawings and the			drawing and specifications.			below in in ground.	TITLE :
				or civil and structural works.			Unit weight of materials are taken as	4.2	MATER	IALS :	
1	L.4			pe read in conjunction with			below:-	1.2	4.2.1	All RCC shall be of controlled grade in	PROPOSED CMO
		archited	tural dr	awings.			Reinforced Cement Concrete - 25 kN/m ³ .			accordance with IS : 456 - 2000.	OFFICE BUILDING
1	l.5	Number	of reinf	orcement bars shall not be			Brick Masonry - 20 kN/m^3 .		4.2.2	Minimum grade of concrete shall be M20.	AT HNAHTHIAL
				e drawings.			Floor Finishes - As per unit weight of the		4.2.3	Grade of Steel shall be TMT conforming to	
1	l.6		-	n is done based on			material.			IS:14786-1979	
		architec	tural dr	awing.		3.2.2	Live Loads: Imposed loads on floors due to		4.2.4	Mild Steel bars if specified shall conform to	SHEET TITLE :
							various services and occupancy of rooms			IS : 432.	GENERAL NOTES
							are taken as per IS : 875 (Part - 2) - 1987.		4.2.5	All bars shall be sheared, flame cutting shall	GENERAL NUTES
2	4 55 7					3.2.3	Dynamic Loads: Dynamic loads due to			not be permitted. The bars shall be bent	
2.				NS AND SYMBOLS :			earthquake forces are taken as per IS : 1893			cold.	SHEET No: SD/21
	1.	F	:	Footings.		3.2.4	(Part - 1) - 2002. Wind Loads & Snow Loads: Wind loads and	43	STRUCT	TIRES ·	
	2.	С	:	Columns.		3.2.4	wind Loads & Snow Loads: Wind loads and snow loads are not considered as	т.э	4.3.1	Clear covers shall be maintained as per IS :	
	3.	B	:	Beams. Safa Bearing Conseits of Sail			earthquake load is more		1.5.1	456 - 2000 as below :-	
	4. 5.	SBC	:	Safe Bearing Capacity of Soil.	hare		prominent.			Foundations - 50mm	DATE: 5/10/2020
	5. 6.	HYSD MS	:	High Yield Strength Deformed Mild Steel bars.	udi S.	3.2.5	Combination of Loads: Combination of loads			Columns - 40mm	
	o. 7.	PCC	:	Plain Cement Concrete.			(for Limit State Design) are taken as per IS :			Beams - 25mm	REVISION No : 1
	8.	RCC	:	Reinforced Cement Concrete.			1893 (Part - 1) - 2002 in the analysis and			Slabs - 15mm	REVISION NO : 1
	9.	IS	:	Indian Standard.			design.			Staircases - 15mm	
	10.	kN	:	Kilo Newton.						Chajjas, etc 15mm	
	11.	m ³	:	Cubic Metre.	3.3		SIS AND DESIGNS:		4.3.2	Lap Splices shall be staggered in such a way	Date of Revision:
	12.	m	:	Metre.		3.3.1	Analysis and design are carried out using			that not more than 50% of bars are lapped	10/12/2020
	13.	mm	:	Millimetre.		222	Staadpro Software.		400	at one particular section.	10/12/2020
	14.	L	:	Development length of bars.		3.3.2	Dynamic analysis is done using Response		4.3.3	Lap length of reinforcement bars shall not	
	15.	Db	:	Diameter of bar.			Spectrum Method based on IS : 1893			be less than the following :- Footings - 30 x dia. of bar.	SCALE -
	16.	dia	:	Diameter.		3.3.3	(Part - 1) - 2002. All sections are designed using Limit State			Columns - 24 x dia. of bar.	SCALE :
	17.	>	:	Greater than.		5.5.5	Design Method.			Beams - 30 x dia. of bar.	Not to Scale
	18.	>/	:	Not greater than.		3.3.4	Detailments of reinforcements are done as			Slabs - 30 x dia. of bar.	
	19. 20.	@	:	At the rate of.		0.011	per IS : 13920 - 1993, IS : 456 - 2000,		4.3.4	Anchorage length of bars shall be	
	20.	c/c	•	Centre to centre.			IS : 4326 - 1993 and IS : 2502 - 1963.			maintained as in the drawings.	Design By :
									4.3.5	Extension of Hoop length of beam stirrups	
_					4.	GENER	AL SPECIFICATIONS :			and lateral ties of column shall be	ROZAMPUIA
3.	DES	SIGN CO	DNSI	DERATIONS:			ARTHWORK AND FOUNDATIONS:			maintained as in the drawings.	STRUCTURE ENGINEER
3.1	FOUNI	INDATIONS:				4	.1.1 Just prefer to laying PCC, the final				
	3.1.1 The SBC of foundation soil is 263.58 kN/m ² , designs were done accordingly.					400 depth of soil shall be excavated and recompacted to the				Drawing By :	
						optimum density.				(C ZOTHANTLUANGA)	
						Δ	.1.2 PCC 1:1.5:3 200mm thick shall be				Assistant Engineer (CPHC/HWC) National Health Mission
						L. L	laid for levelling course below				Mizoram : Aizawl
							foundations.				