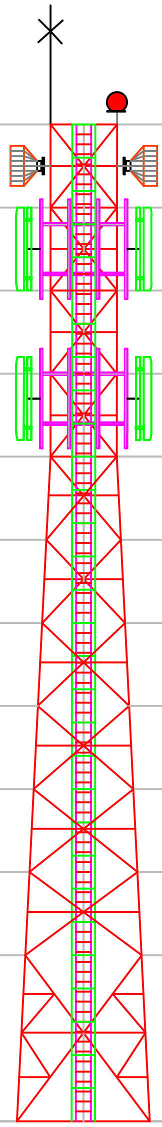
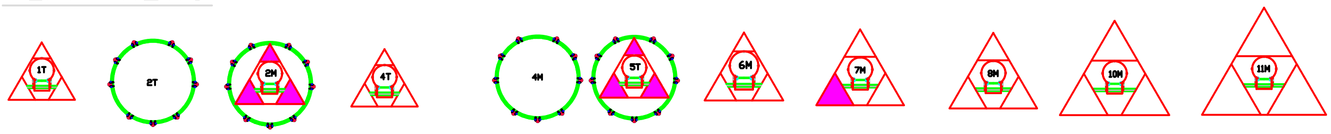
LEVEL	FACE WIDTH	LEG JOINT NAME
30000	2000	A
27500	2000	
25000	2000	B
22500	2000	
20000	2000	C
17500	2250	
15000	2500	D
12500	2750	
10000	3000	E
7500	3250	
5000	3500	F
0000	4000	G

PANEL NO	LENGTH (METER)	LEG LENGTH	LEGS SIZE	DIAGONALS	PANEL TOP- HORIZONTALS	PANEL MID- HORIZONTALS	PLAN BRACING	SEC. BRACING
1	2.5	2500	65x65x6	50x50x4	50x50x4	45x45x04	45x45x04	
2	2.5	2500						
3	2.5	2500	75X75X6	55x5	50x50x4	45x45x04	45x45x04	
4	2.5	2500		60x60x5				
5	2.5	2503	100x100x10			50x50x4		
6	2.5	2503		50x5			50x50x4	
7	2.5	2503	120x120x10	50x50x5		50x50x4		
8	2.5	2503						
9	2.5	2503	130x130x12	55x55x5		50x50x4	50x50x4	
10	2.5	2503						
11	5	5006	150x150x12	65x65x6		50x50x4	50x50x4	45x45x4

PLATFORM

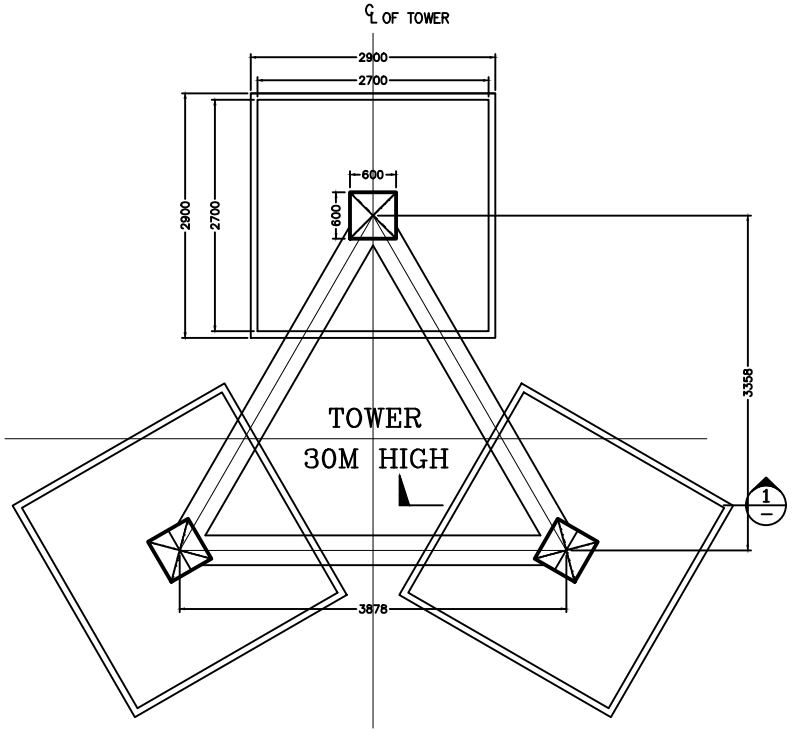


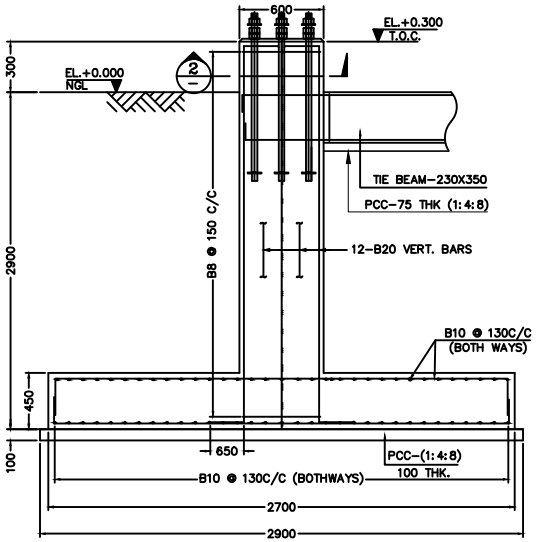
PLAN VIEWS



1)Remote Radio Head–9nos (Total Weight 245kgs.)
2)Sectoral Antennas –9nos (Total Weight 215kgs.)
3)Microwave Antennas 0.6m–2nos (Total Weight 50kgs.)
4)Microwave Antennas 0.9m–2nos (Total Weight 60kgs.)
5)Microwave Antennas 1.2m–2nos (Total Weight 60kgs.)
6)Microwave Antennas 1.8m–1nos (Total Weight 40kgs.)
7)Antennas Mounting Structure (Total Weight 270kgs.)

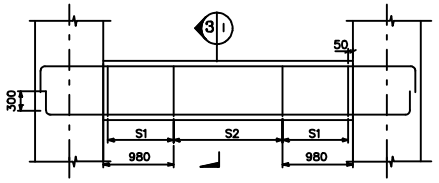
TITLE	30 METER TOWER	Wind Speed	180 KMPH	Design	TIA/EIA–222 G
SUB. TITLE	TRIANGULAR ANGULAR TOWER	Deflection	< 1.0 Degree	Rev:	
Drawing	BT - 2024 Project	Loading	935 kgs.	Drawn Date	08–12–2023
	BHUTAN TELECOM LTD		Tower Weight 5750 kgs.		



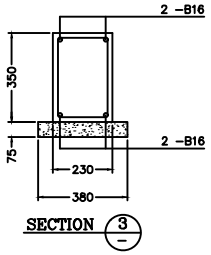


SECTION 1

FOUNDATION KEY PLAN

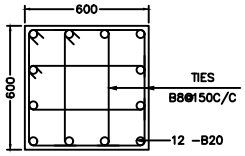


TIE BEAM (TYP DETAILS)



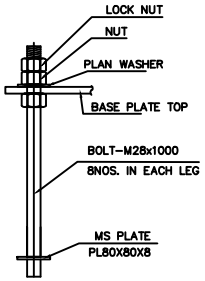
SECTION 3

STIRRUP DETAILS
S1:-2 LEGGED Y8 @ 100 C/C
S2:-2 LEGGED Y8 @ 200 C/C



SECTION 2

COLUMN 600X600



ANCHOR BOLT

NOTES

1. ALL DIMENSIONS ARE IN MM UNLESS NOTED OTHERWISE.
2. USE M20 GRADE CONCRETE AND Fe 500 GRADE FOR STEEL.
3. CLEAR COVER TO MAIN REINFORCEMENT:-
   (a) 50MM FOR FOUNDATION (b) 25MM FOR BEAMS
   (c) 40MM FOR COLUMNS
4. PRIOR TO AND DURING CONCRETING ALL BOLTS SHALL BE SECURELY HELD IN POSITION BY USE OF TEMPLATE.
5. BEFORE COMMENCEMENT OF CONSTRUCTION USING THIS DESIGN, CLIENT/CONTRACTOR SHALL CARRY OUT DETAILED SOIL INVESTIGATION OF EVERY SITE.
6. THIS FOUNDATION DESIGN SHALL NOT BE USED IN CASE HIGHLY SOIL ARE FOUND AT ANY DEPTH DURING SOIL INVESTIGATION.
7. CONCRETE SHALL BE MECHANICALLY MIXED & VIBRATED.
8. SPLICING OF BARS SHALL NOT BE MORE THAN 50% AT ANY LOCATION.
9. PROPER CURING OF CONCRETE SHALL BE DONE.
10. BENDING OF BARS SHALL BE AS PER IS:2502.
11. ANY DISCREPANCY SHOULD BE BROUGHT TO THE CONSULTANT'S ATTENTION.

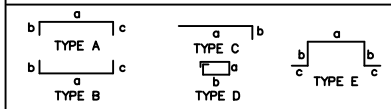
GENERAL DETAILS

S.No	DESCRIPTION	DETAILS
1	SOIL BEARING CAPACITY	10.00 T/SQM
2	DRY DENSITY OF SOIL	1.8 T/SQM
3	ANGLE OF REPOSE	30.00 DEGREE

BILL OF MATERIALS

ITEM	UNIT	TOTAL
EXCAVATION	CUM	76.3
PCC-(1:4:8)	CUM	2.85
RCC-M20	CUM	13.6
STEEL-Fe500	KG	1200
CHAIRS SHALL BE PROVIDED WHEREEVER REQUIRED		

BAR BENDING SCHEDULE



REVISION NOTES

REV. NO.	DESCRIPTION		DATE	SIGN.

DRAWN	CHECKED	APPROVED	DATE	SCALE
Bhutan Telecom	Bhutan Telecom	Bhutan Telecom	14-12-2023	NTS

CLIENT: BHUTAN TELECOM LTD.

DESIGN BY: BHUTAN TELECOM LTD.

PROJECT: GENERIC ISOLATED FOUNDATION DESIGN BHUTAN

TITLE : FOUNDATION DETAILS FOR 30M HIGH TRIANGULAR TOWER SBC : 10 T/SQM

DRAWING No.	SH. NO.	REV.
BT-2024 Project		