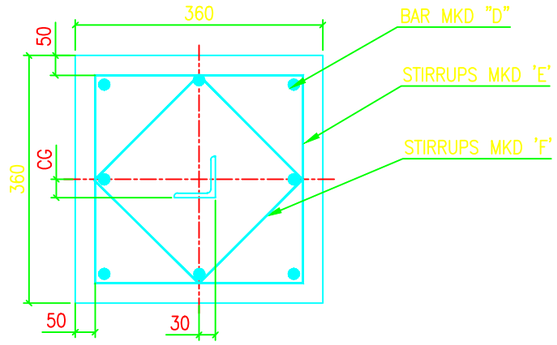
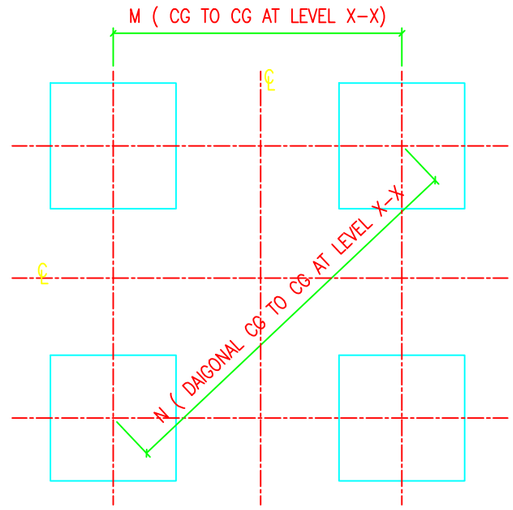
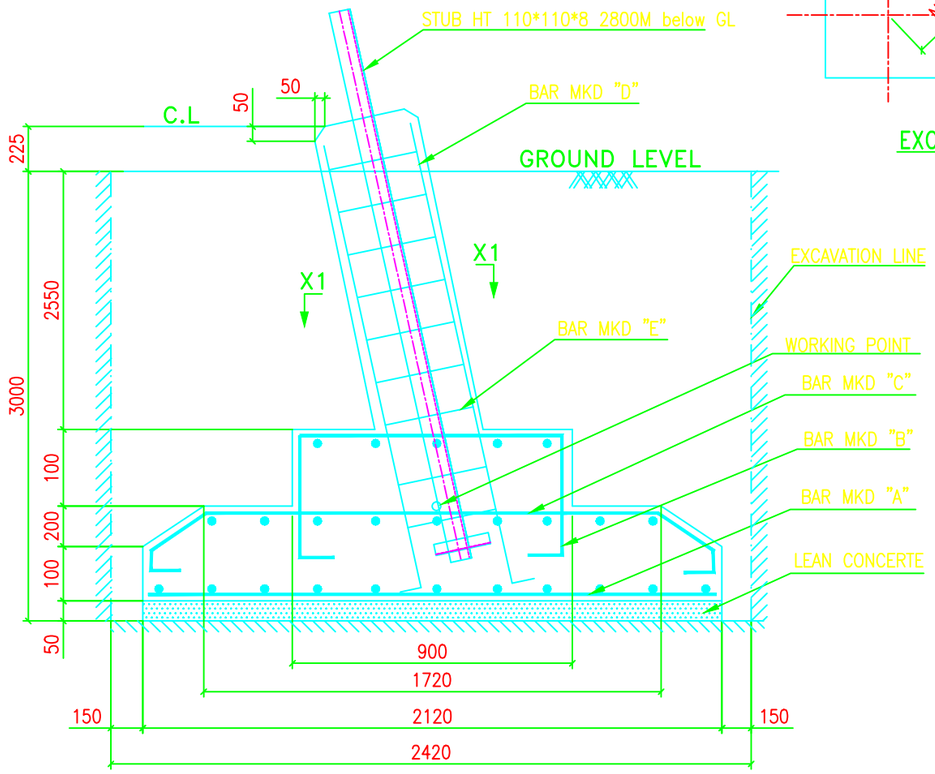
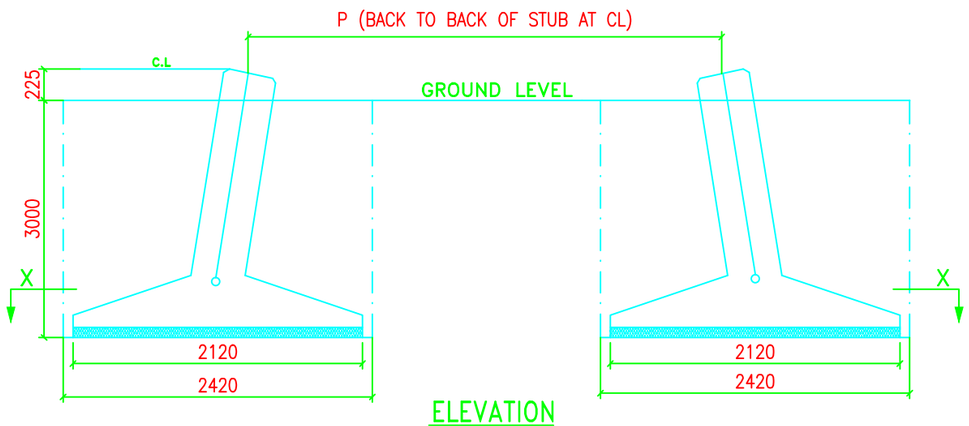


SECTION X1–X1



EXCAVATION PLAN AT X–X





ELEVATION

BAR BENDING SCHEDULE FOR FOUNDATION

MARK No.	SHAPE OF THE BAR	DIA (mm)	LENGHT (mm)	Nos. Leg	Unit Wt. (Kg/m)	Wt/Leg. (Kg)	Wt./Tower (Kg)
A	2020	10	2020	40	0.617	49.853	199.412
B	800, 270, 100	10	1540	10	0.617	9.501	38.004
C	1620, 212, 100	10	2244	12	0.617	16.614	66.456
D	3000, 350	25	3350	8	3.854	103.287	413.148
E	260, 260	8	1190	13	0.390	6.033	24.132
F	192, 192	8	916	13	0.390	4.654	18.617
			TOTAL REINFORCEMENT				759.769

TOWER SLOPE TAN ALPHA = 0.200461

EXCAVATION PLAN DETAILS

LEVEL	STUB	CG OF STUB	P	M	N	CLEAT DETAILS
+0M	HT 110*110*8	30	10296	11347	16047	MS 100*100*6 NO. OF PAIRS 2 4 BOLTS/PAIR
+3M	HT 110*110*8	30	11517	12568	17774	
+6M	HT 110*110*8	30	12720	13771	19475	

QUANTITIES/TOWER

EXCAVATION VOLUME	=	70.277 Cu.M
CONCRETE (1:1.5:3)	=	6.52 Cu.M
CONCRETE (1:3:6)	=	0.899 Cu.M
REINFORCEMENT	=	759.769 Kgs.

NOTES:–

1. DRAWING NOT TO SCALE.
2. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE STATED.
3. REINFORCED BAR USED Fe 415 CONFORMING TO IS 1786–1985
4. MIX PROPERTIES CONFORMING TO IS 456–2000
5. CONCERTE MIX USED GRADE M–20 (NOMINAL MIX 1:1.5:3)
   LEAN CONCERTE MIX USED GRADE M–10 (NOMINAL MIX 1:3:6)
6. WHENEVER NECESSARY TO CLEAR STUB AND CLEAT STIRRUPS AND BARS ARE TO BE ADJUSTED AT SITE.
7. CLEAR COVER TO THE MAIN REINFORCMENT BARS SHALL BE 50MM UNLESS OTHERWISE SPECIFIED.
8. FOR CLEAT AND STUB TEMPLATE DETAILS PLEASE REFER RESPECTIVE STUB DRG.

THE FOUNDATION HAS BEEN DESIGNED FOR THE FOLLOWING PARAMETERS:

TYPE OF SOIL	:	DRY
UNIT WEIGHT	:	1440 Kg/Cu.M
BEARING CAPACITY	:	27350 Kg/Sq.M
ANGLE OF REPOSE	:	30 Degrees
WATER TABLE	:	3.0M BELOW G.L

BIHAR STATE POWER TRANSMISSION COMPANY LTD

DRAWN BY		DESCRIPTION	220KV D/C "DB+0/3/6" TOWER FOUNDATION DRAWING OF TYPE - DRY		SCALE –
CHECKED BY					
APPROVED BY		DRG NO	220KV-D/C-+0/3/6-Fdn-Dry-21	SHEET NO 1–1	REV. 0