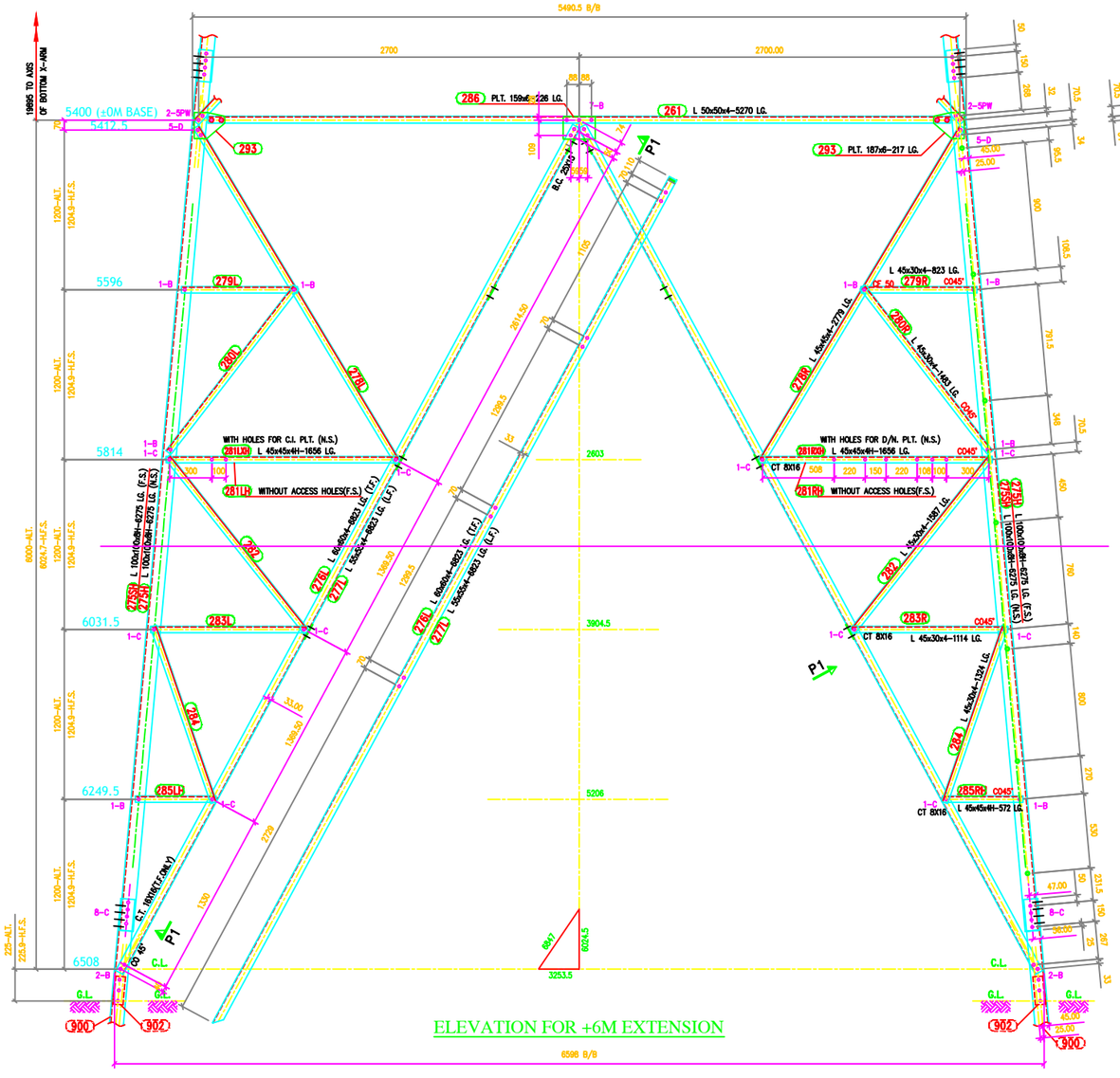
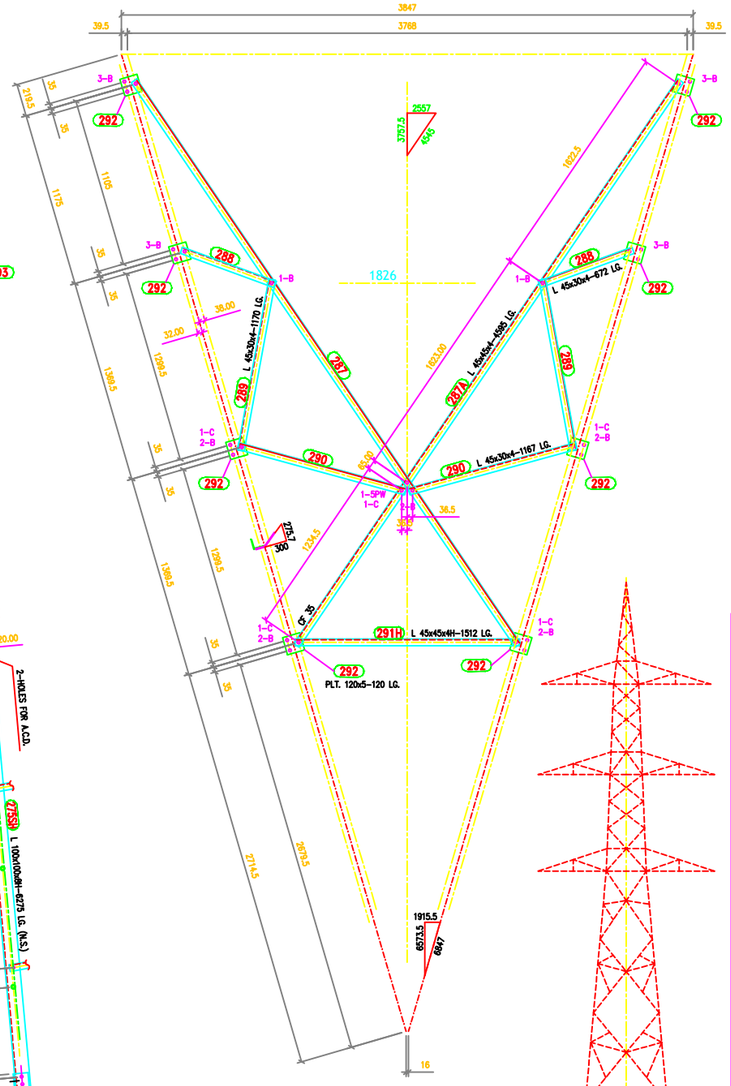
TOWER SLOPE		
Tan B	=	0.090682
2 Tan B	=	0.181364
Face	=	1.004112
Dev	=	1.008208

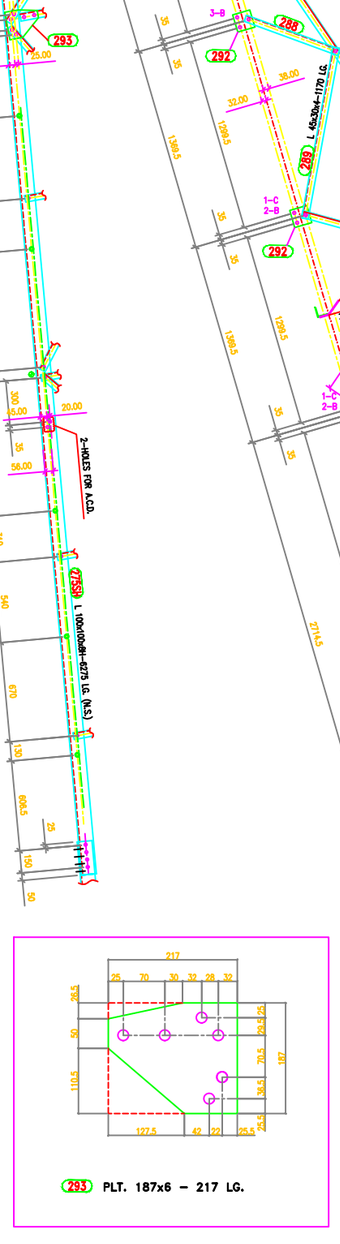
In Face Slopes		
Tan B	=	0.090410
Sec B	=	1.004079

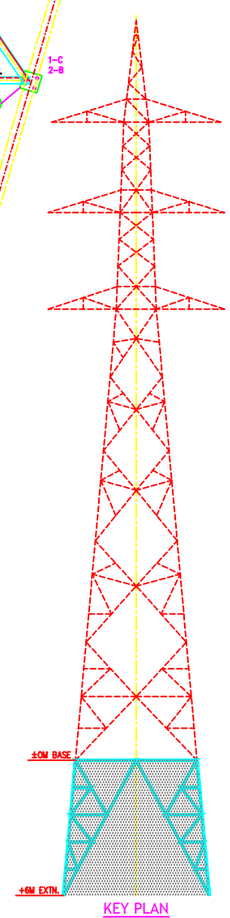


ELEVATION FOR +6M EXTENSION



VIEW AT "P1-P1"





KEY PLAN

BOLTS AND NUTS STATEMENT:				
TYPE	SIZE (IN mm)	QUANTITY		
		+6M	VIEW A–A	TOTAL
B	ø16mm x 35mm	172	20	192
C	ø16mm x 40mm	92	4	96
D	ø16mm x 45mm	24	–	24
E	ø16mm x 50mm	–	–	–
F	ø16mm x 55mm	–	–	–
G	ø16mm x 60mm	–	–	–
H	ø16mm x 65mm	–	–	–
J	ø16mm x 70mm	–	–	–
K	ø16mm x 75mm	–	–	–
L	ø16mm x 80mm	–	–	–
SPRING WASHERS		288	24	312
30 O.D. PACKING WASHERS ø17.5mm				
5 mm		4	–	4
6 mm		–	–	–
8 mm		–	–	–
10 mm		–	–	–
STEP BOLTS ø 16mm x 175mm		26	–	26

GENERAL NOTES:

1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE STATED.
2. MILD STEEL BOLTS & NUTS TO LS 6639/12427/4.8/5.6 QLTY.
3. ALL MILD STEEL BOLTS & NUTS ARE TO BE HOT DIP GALVANIZED AS PER LS 1367 PART–XIII.
4. ALL MILD STEEL BOLTS & NUTS ARE TO BE QUALITY CONFORMING TO I.S. 2062 STANDARD.
5. GALVANISATION OF TOWER MEMBERS AND FLAT WASHERS AS PER I.S. 2629.
6. ● ALL HOLES ø13.5 FOR M12 BOLTS U.O.S.
7. ○ ALL HOLES ø17.5 FOR M16 BOLTS U.O.S.
8. ◐ ALL HOLES ø21.5 FOR M20 BOLTS U.O.S.
9. ◎ ALL HOLES ø17.5 FOR M16 STEP BOLTS U.O.S.
10. STANDARD SPRING WASHERS ARE TO BE USED UNDER EACH NUT.
11. ALL FABRICATED MEMBERS SHALL HAVE THE PREFIX.. 2DA
12. FOR SIZE OF BOLTS AND NUTS SEE TABLE OT–100
13. ◎ INDICATES MEMBERS BEING USED AS STEP–BOLTS.
14. FOR ..... SEE DRG. NO. S .....
15. FOR ..... SEE DRG. NO. S .....
16. FOR ..... SEE DRG. NO. S .....
17. FOR ..... SEE DRG. NO. S .....
18. (H) INDICATES HIGH TENSILE STEEL CONFIRMING TO BE 4360 GR.–50B QUALITY.
19. FOR ACCEPTANCE CRITERIA REFER MANUFACTURING QUALITY PLAN MFG–701.
20. CRITICAL DIMENSIONS ARE SHOWN IN [ ]
21. STEP BOLTS SHALL BE DIAGONALLY OPPOSITE LEGS.

MARK Nos. 275–293

BIHAR STATE POWER TRANSMISSION COMPANY LTD

DRAWN BY		DESCRIPTION	220KV D/C TOWER TYPE "2DA" +6M EXTENSION WITH OBLIQUE VIEW P1-P1	SCALE –
CHECKED BY				
APPROVED BY		DRG NO	220KV-D/C-Struct-±6M-Extn-Oblique-18	SHEET NO 1–1 / REV. 0