NOTES:

1- ALL DIMENSION ARE IN MILLIMETERS.
2- DO NOT SCALE THE DRAWING
3- DIMENTIONS OF HOLE ARE AS FOLLOWS:
ø21.5 mm FOR M20, ø17.5 mm FOR M16
ø13.5 mm FOR M12 BOLTS.
4- EACH BOLT ASSEMBLY INCLUDES ONE BOLT
ONE NUT AND ONE SPRING WASHER.
5- EACH STEP BOLT ASSEMBLY INCLUDES ONE STEP BOLT
TWO NUTS AND TWO SPRING WASHER.
6- GRADE OF BOLTS IS 5.8
7- THE STEEL MEMBER INDENTIFIED BY "H" ARE ST:52
OTHER MEMBERS ARE ST:37

SYMBOLS AND ABBREVIATIONS

DESCRIPTION	*SYMBOLE*
CENTER LINE	*C.L.*
PLATE	*PL*
ANGLE	*L*
SPLICE	*SP*
HIGH TENSILE	*HL*
BEND LINE	*B.L.*
NEAR SIDE	*N.S.*
FAR SIDE	*F.S.*
ø12 mm HOLE	◆
ø13 mm HOLE	•
ø17.5 mm HOLE	○
ø20 mm HOLE	◔
ø22mm HOLE	◐
HOLE FOR STEP BOLT	●

SPECIFICATION FOR MATERIALS

NO.	ITEM	REFERENCE: Specific Requirements	Technical Delivery Conditions
1	ANGLE	DIN 10056-2	DIN EN 10025-2 AND ST52-3(ASTM A572GR50) EQUI TENSILE-GRADE ES500J
2	GUSSET PLATE	DIN 10049	DIN EN 10025-2 AND ST52-3(ASTM A572GR50) EQUI TENSILE-GRADE ES500J
3	PULLER PLATE	DIN 10049	DIN EN 10025-2 AND ST52-3(ASTM A572GR50) EQUI TENSILE-GRADE ES500J
4	BOLT	ISO 7990	ISO 898-part1,Grade 8.8
5	NUT	DIN 4032	ISO 898-part2,Grade 8
6	SPRING WASHER	DIN 127	DIN 267-part 30
7	PLAIN WASHER	DIN EN ISO 4759-3	DIN EN 10025-2,Grade ES355JR
8	ANCHORS & PLATES		ASTM A36
9	GALVANIZE		ASTM A153

Note: 1-Replacement of an equal and approved material is allowed only after the written permission of consultant.

NO.	DESCRIPTION	BY	CHKD.	APPR.	DATE
01					

PROJECT: 63 kV D/C TRANSMISSION LINE

YAZD REGIONAL ELECTRIC CO.

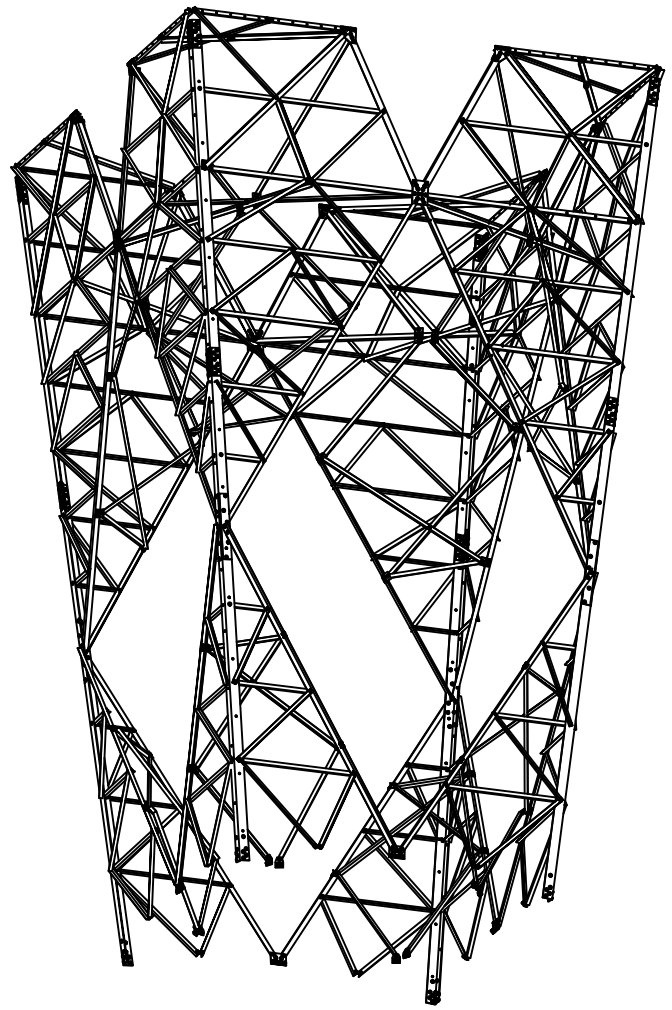
CONSULTANT: MONENCO IRAN CO. | ISSUED:

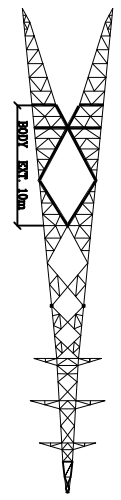
CONTRACTOR: YASAN CO. | DRAWN:

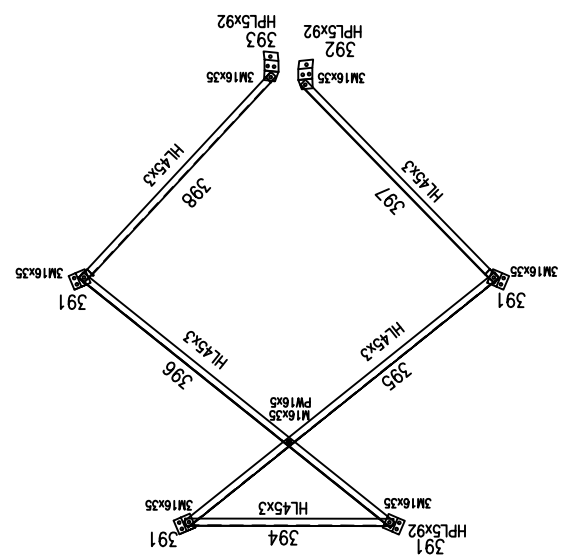
TOWER TYPE: HEAVY SUSPENSION YTM15 | CHECKED:

TOWER NO. RANGE: BODY EXT. 10M (SECTION&VIEW) | APPROVED:

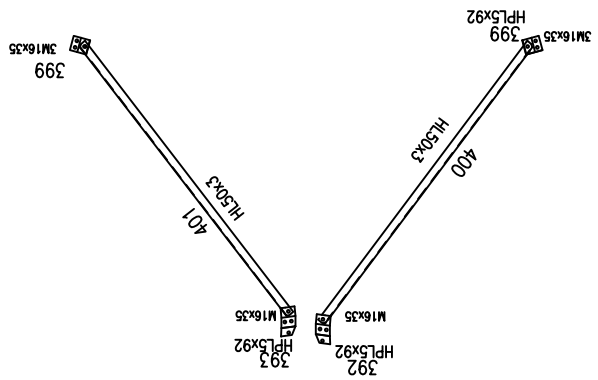
DWG. NO.: | DATE: 1397/09/19







VIEW X2



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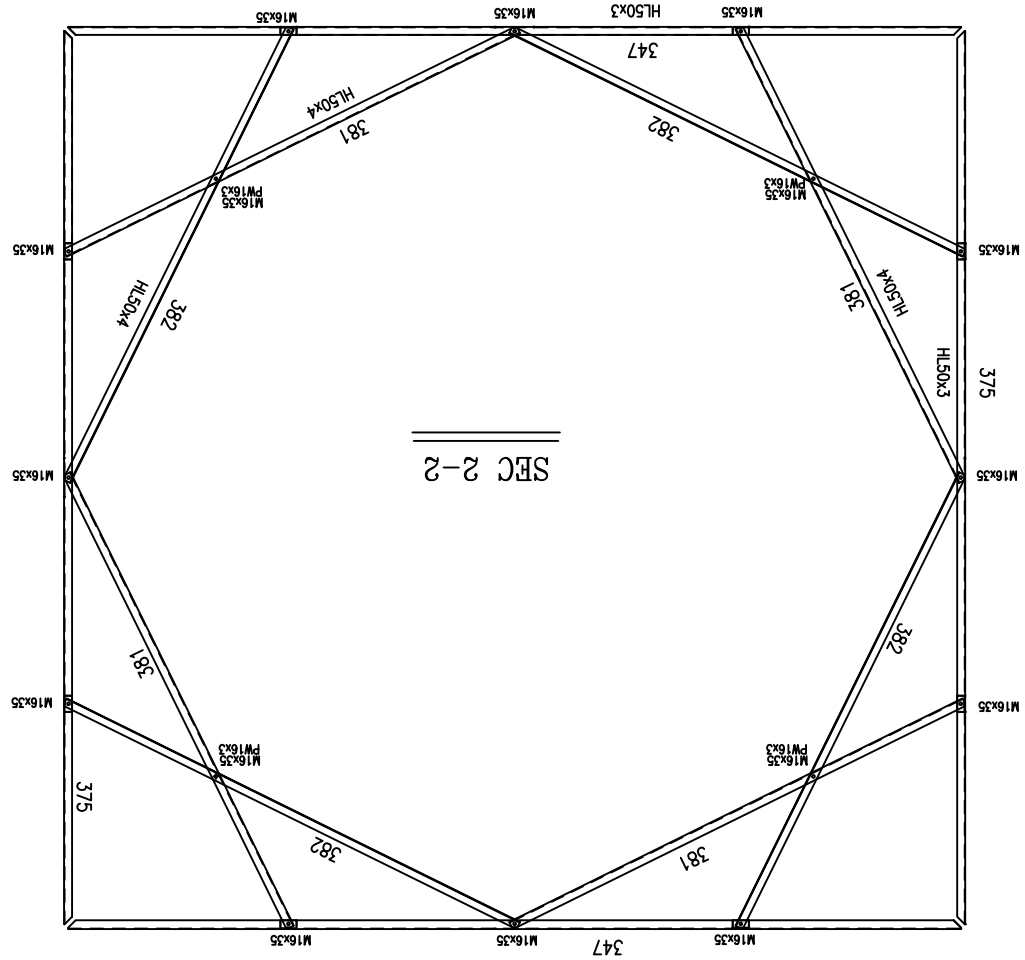
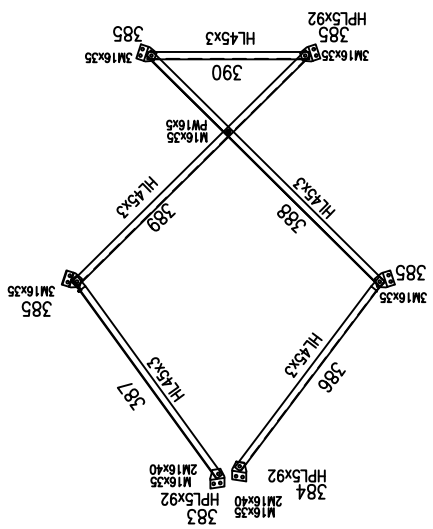
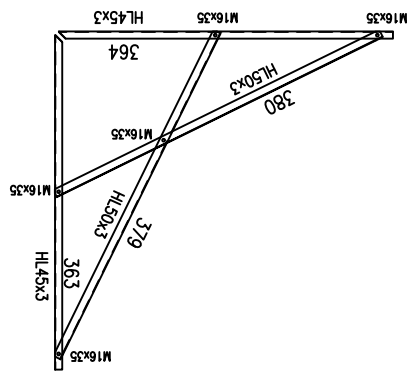


SEC 2-2



VIEW X1



SEC 3-3