REV.	DESCRIPTION	BY	CHKD.	APPR.	DATE
A	REVISED BASED ON LAST MODIFICATIONS	BY	M.S	M.SH	97/04/19

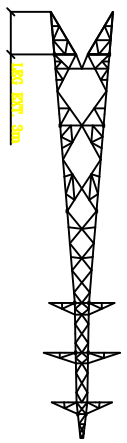
63 kV D.C TRANSMISSION LINE

PROJECT

YAZD REGIONAL ELECTRIC CO.

CLIENT

CONSULTANT	MONENCO IRAN CO.	DRWG. NO.	
CONTRACTOR	YASAN CO.	DRAWN	
TOWER TYPE	SUSPENSION YSM03	CHECKED	
DESIGN BY YASAN	LEG EXT. 3m	APPROVED	
DATE	1997/04/19	SCALE	AS SHOWN



LIST OF BOLT & NUTS & WASHERS INCLUDING 3% EXTRA

LENGTH	QTY.	LENGTH	QTY.
M16x35mm	32	STEP BOLT	03
M16x40mm	15	3mm PACK W.	02
M16x45mm	13	STD.SP.WASHER	66

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.*
Ø14 mm HOLE	●
Ø17.5 mm HOLE	○
Ø21.5mm HOLE	◎
HOLE FOR STEP BOLT	◉

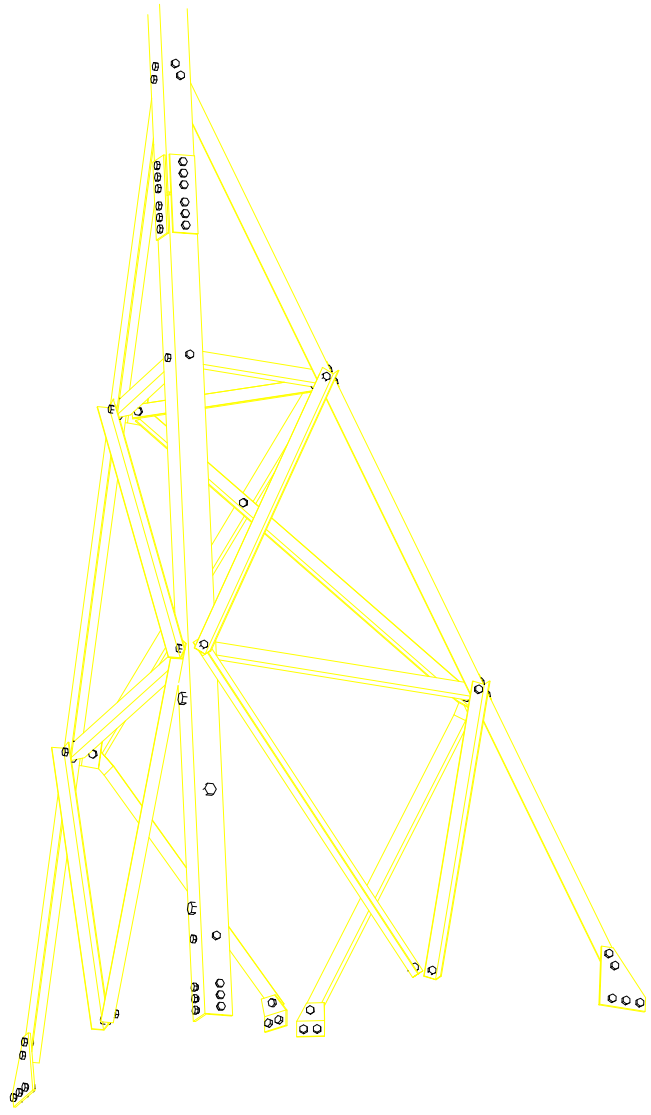
SPECIFICATION FOR MATERIALS

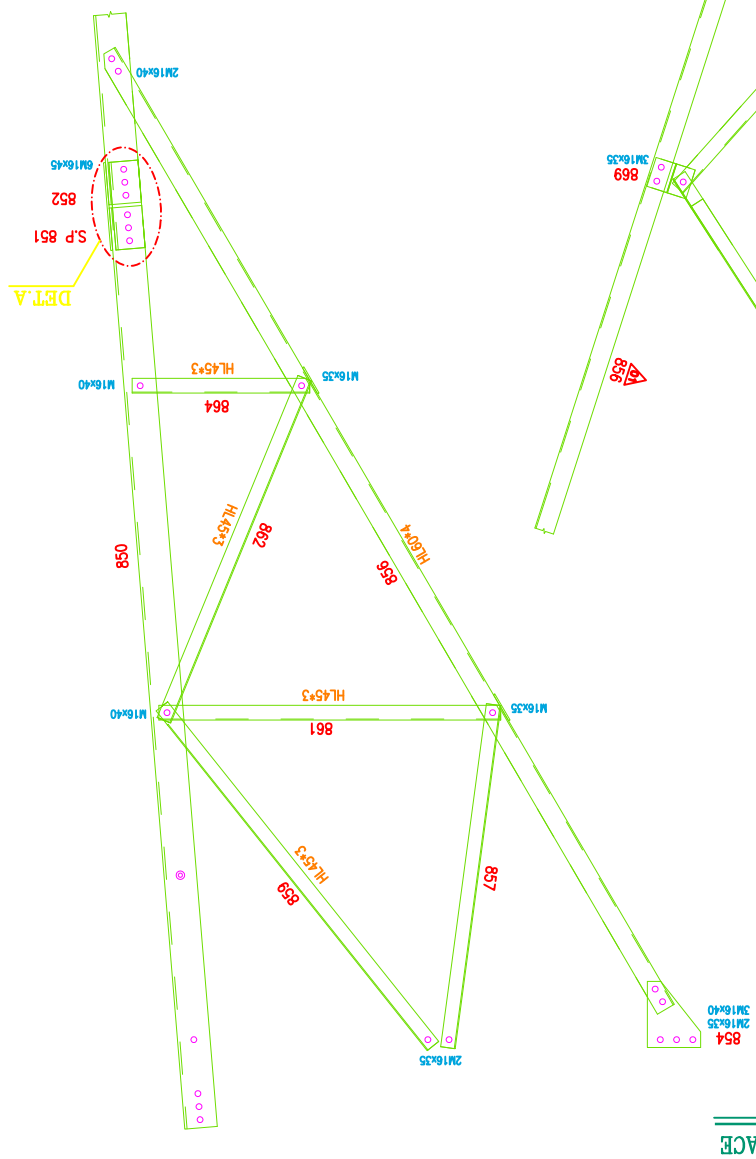
NO.	ITEM	REFERENCE Specific Requirements	Technical Delivery Conditions
1	ANGLE	DIN 10056-2	DIN EN 10025-2 MILD STRUCTURAL-GRADE S355JR HIGH TENSILE-GRADE S355J0
2	GUSSET PLATE	DIN 10046	DIN EN 10025-2 MILD STRUCTURAL-GRADE S355JR HIGH TENSILE-GRADE S355J0
3	FILLER PLATE	DIN 10046	DIN EN 10025-2 MILD STRUCTURAL-GRADE S355JR
4	BOLT	DIN 7990	ISO 898-part1,Grade 5.8
5	NUT	DIN 4032	ISO 898-part2,Grade 5
6	SPRING WASHER	DIN 127	DIN 267-part 20
7	PLAIN WASHER	DIN EN ISO 4759-3	DIN EN 10083-2,Grade S355JR
8	GALVANIZE	ANGLES & PLATES	ASTM A123
		NUTS & NUTS & WASHERS	ASTM A153

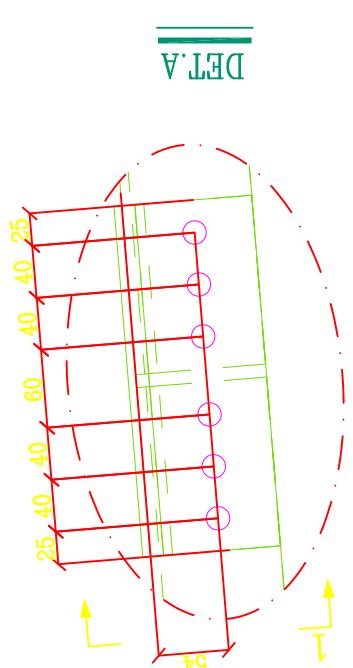
Note: 1-Application of an equal and approved material is allowed only after the written permission of consultant

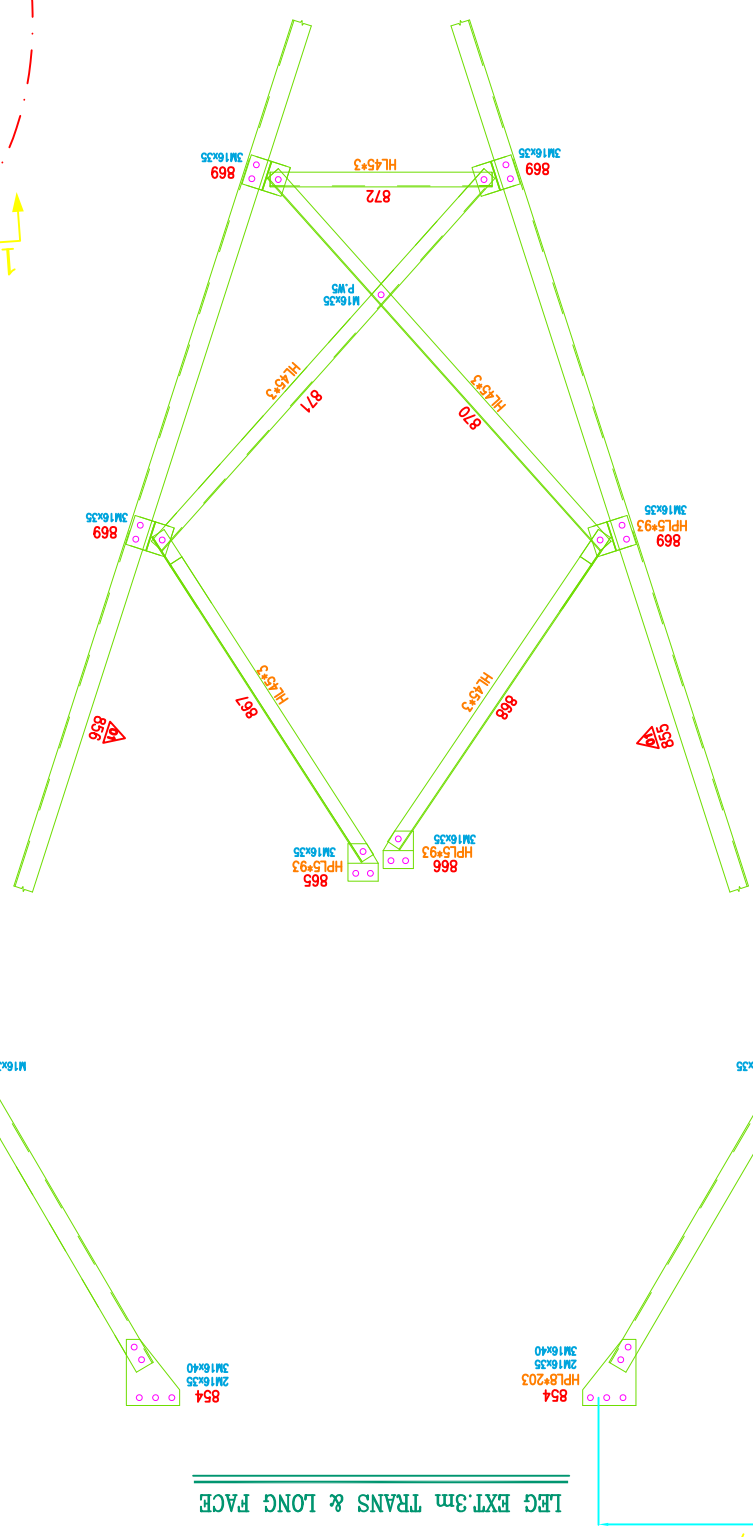
NOTES:

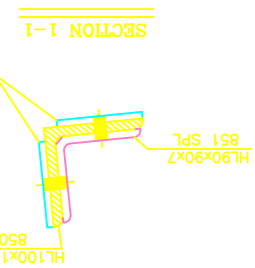
1- ALL DIMENSION ARE IN MILLIMETERS.
2- DO NOT SCALE THE DRAWING
3- DIAMETERS OF HOLE ARE AS FOLLOWS:
ø21.5 mm FOR M20, ø17.5 mm FOR M16
ø13.5 mm FOR M12 BOLTS.
4- EACH BOLT ASSEMBLY INCLUDES ONE BOLT ONE NUT AND ONE SPRING WASHER.
5- EACH STEP BOLT ASSEMBLY INCLUDES ONE STEP BOLT TWO NUTS AND TWO SPRING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

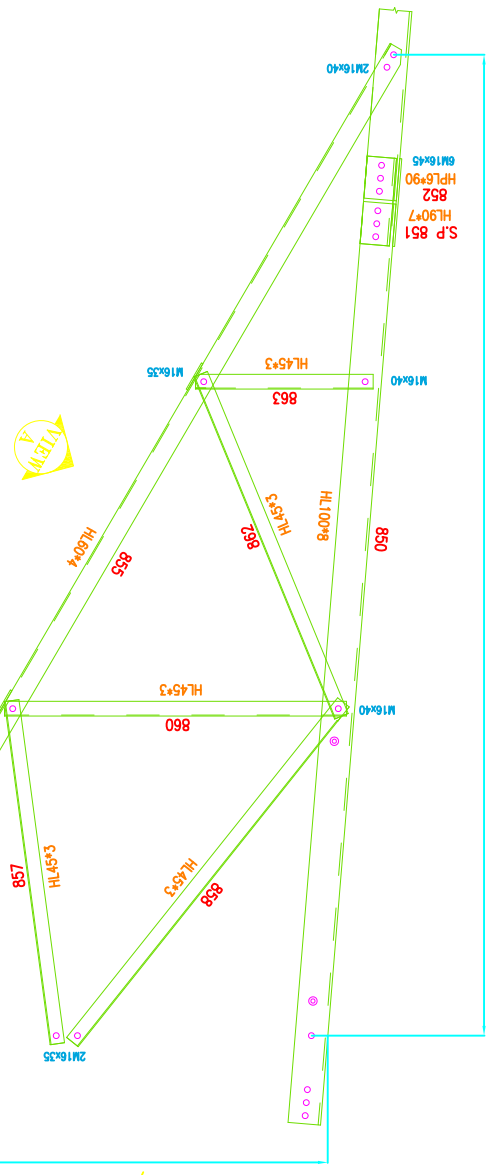












VIEW A

LEG EXT.3m TRANS & LONG FACE

B/B OF ANGLE 313.8/2