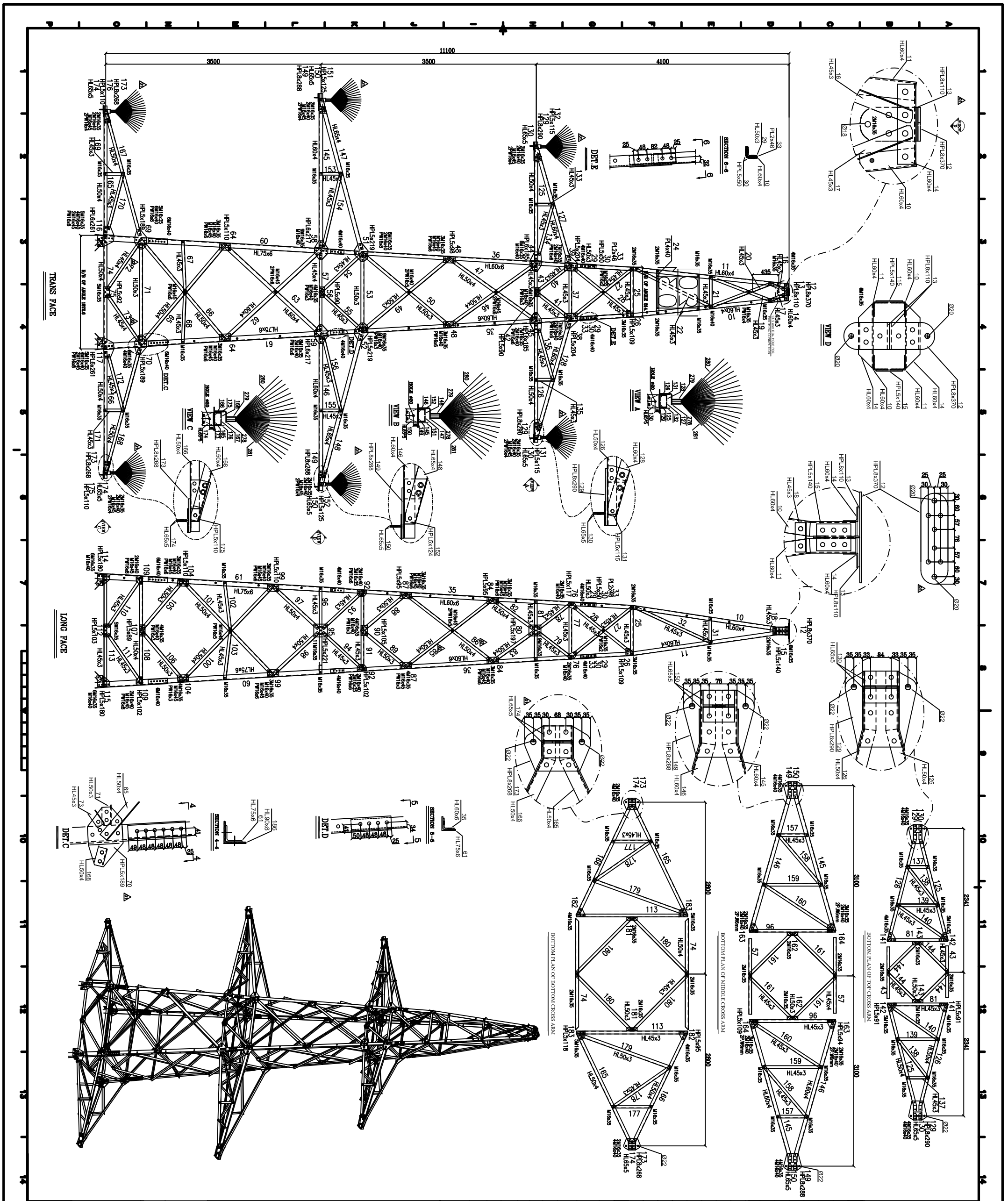

NOTES:

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

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	❶
HOLE FOR STEP BOLT	●

SPECIFICATION FOR MATERIALS

NO.	ITEM	Specific Requirements (Technical Delivery Conditions) REFERENCE
1	ANGLES	DIN 10056-2 — MILD STEEL GRADE S235JR HIGH TENSILE GRADE S355JR
2	GUSSET PLATES	DIN 10048 — DIN EN 10025-2 MILD STEEL GRADE S235JR HIGH TENSILE GRADE S355JR
3	PILLAR PLATE	DIN 10048 — DIN EN 10025-2 MILD STEEL GRADE S235JR
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 30
7	PLAIN WASHER	DIN EN ISO 4759-3 — DIN EN 10025-2,Grade S235JR
8	GALVANIZE	ANGLES & PLATES — ASTM A123 / BOLTS & NUTS & WASHERS — ASTM A153

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

NO.	DESCRIPTION	BY	CHKD.	APPR.	DATE
A	ADD MODIFIED ACCORDING TO LETTER NO. 7/5/2/5/5	MJH	MJH	MJH	07/10/18
B	ISSUED FOR CONSTRUCTION	MJH	MJH	MJH	07/10/18

PROJECT: 63 KV D/C TRANSMISSION LINE
CLIENT: YAZD REGIONAL ELECTRIC CO.
CONSULTANT: MONENCO IRAN CO.
CONTRACTOR: YASAN CO.
TOWER TYPE: HEAVY SUSPENSION YTM15
DESIGN OF TOWER: TOP BASIC BODY

DRAWN: MJH — DATE: 1397/10/18
DRAWING NO.: 1-0-0-YTM15-0-0-01

Yazdan Energy Industrial Group — YASAN

Building a real dream always continues & grows