



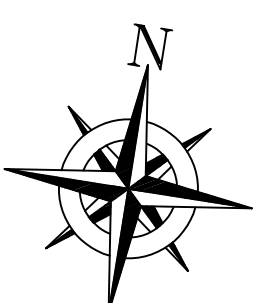
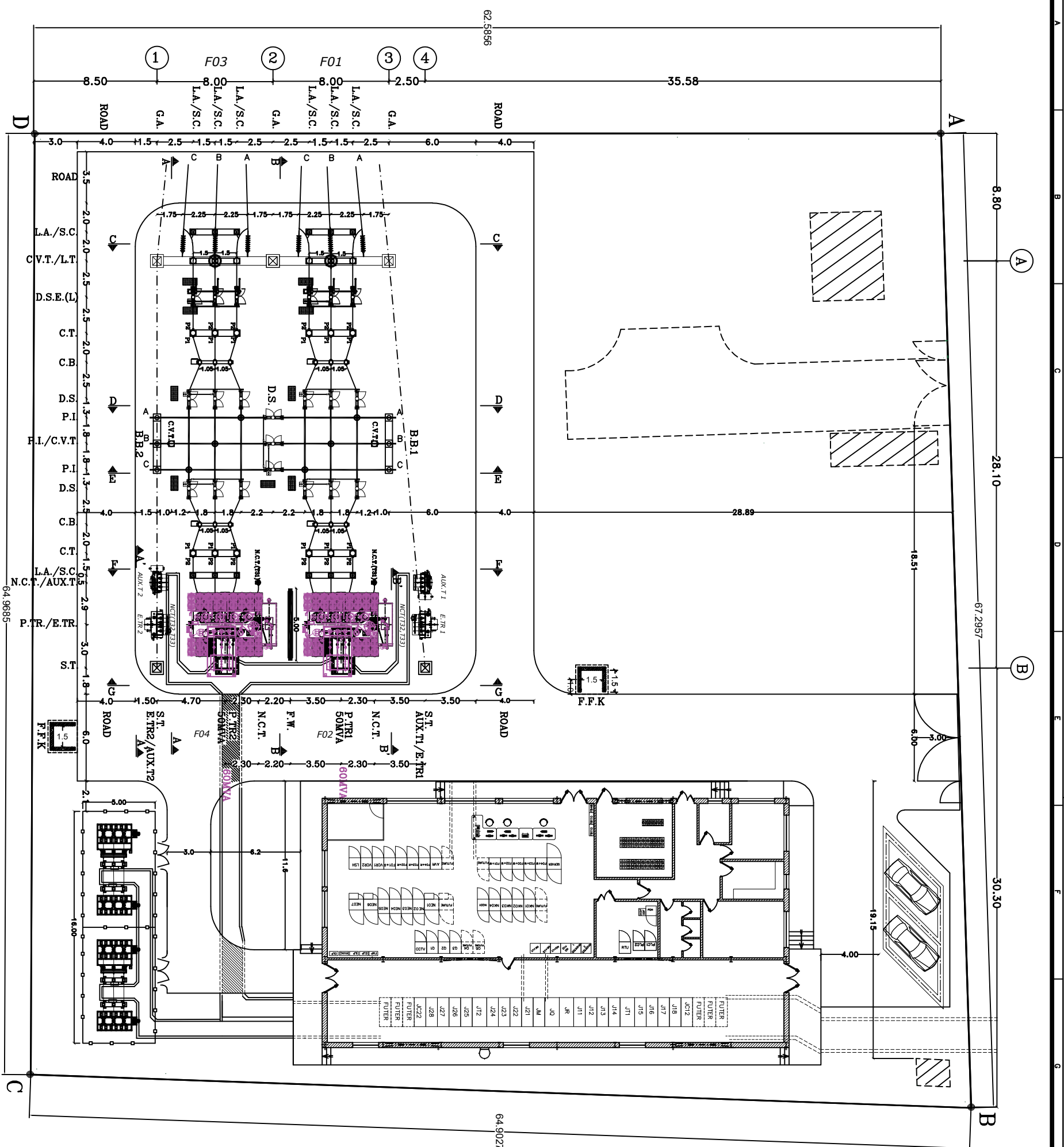




Page	Description	Revision				
		0	A	B	C	D
00	COVER SHEET	X	X	X	X	X
01	INDEX	X	X	X	X	X
02	GENERAL LAYOUT	X	X	X	X	X
03	SECTION A-A	X	X	X	X	X
04	SECTION B-B	X	X	X	X	X
05	SECTION C-C	X	X	X	X	X
06	SECTION D-D&E-E	X	X	X	X	X
07	SECTION F-F	X	X	X	X	X
08	SECTION G-G	X	X	X	X	X

<div><div><div>Mazandaran Regional Electric Company</div><div>(M.R.E.C)</div></div></div>	SUB-CONTRACTOR'S LOGO	DWG./Doc. No. MD1-BQ-16-SS-E-01-NYO-706		SCALE :	<div><div>Mapna Power Plants Construction &amp; Development Co(MPD-1)</div></div>	<div><div>MOHAM SHARGH CO.</div></div>	<div><div>GHODS NIROO CONSULTING ENGINEERS</div></div>		
	SUB CONTRACTOR DWG. NO.:	DRAWING TITLE:		REV. NO. : D					
	A	INDEX		SHEET: 1 OF: 8					
	0	FIRST ISSUE		FORMAT : A3					
	REV.	DESCRIPTION	DWN	DESN				CHKD	APPR
MD1-BQ-16-SS-E-01-NYO-706									







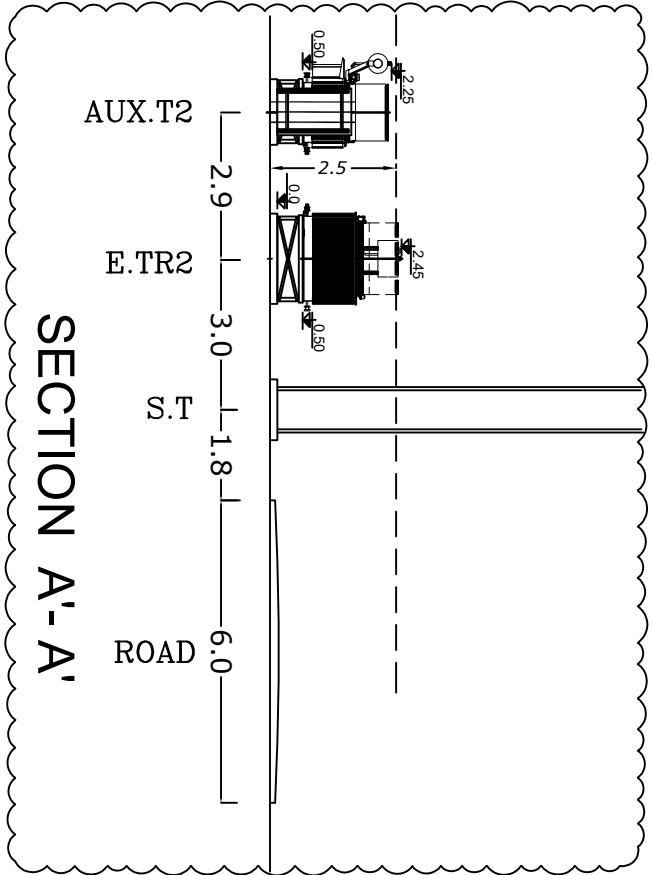
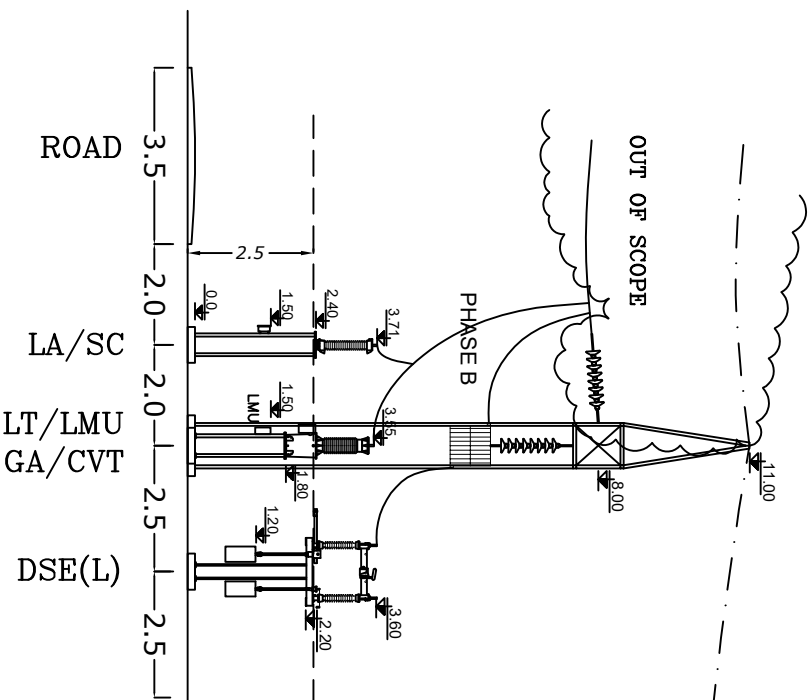
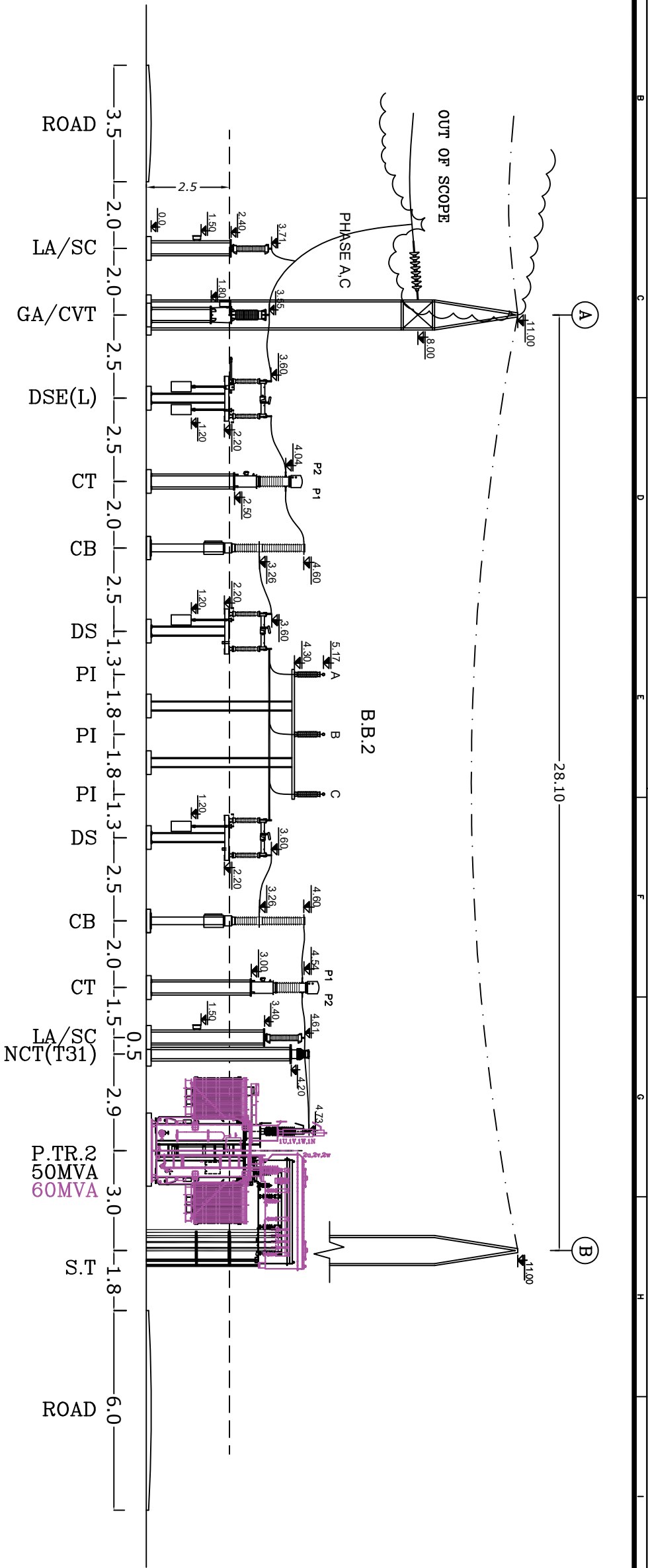
ABBREVIATION	DESCRIPTION
CVT	CAPACITIVE VOLTAGE TRANSFORMER
LMU	LINE WACHING UNIT
LT	LINE TRAP
CT	CURRENT TRANSFORMER
CB	CIRCUIT BREAKER
DS	DISCONNECTING SWITCH
DSE	DISCONNECTING SWITCH WITH EARTHING SWITCH
P.T/R	POWER TRANSFORMER
AUX.T	AUXILIARY TRANSFORMER
E.T/R	EARTHING TRANSFORMER
NCT	NEUTRAL CURRENT TRANSFORMER
LA	LIGHTNING ARRESTER
PI	POST INSULATOR
GA	GANDRY
S.T	STATIC TOWER
FW	FIRE WALL

CLEARANCES (m)		63KV	20KV
1	Minimum height of the base of all post type or bushing insulators from ground	2.5	2.5
2	Min. clearance between live metal and ground potential	0.8	0.4
3	Min. clearance between Energized portions of different phases	0.95	0.5
4	Minimum Clearance Between Energized Parts Above Cables	3.3	3
5	Minimum Distance Between Phases of Main Suspension Buses	2.2	1.25
6	Minimum Vertical Clearances of Overhead lines Above Main Roadway	7	7

T01-T02	Aux.T1-Aux.T2	ER.T1-ER.T2
POWER TRANSFORMER	AUXILIARY TRANSFORMER	FEEDING TRANSFORMER
63/20KV	20/0.4KV	20KV
50MVA	250KVA	1554A
YNd11	Dyn5	Za

POINT	X	Y
A	718368	4063289
B	718382	4063223
C	718317	4063214
D	718307	4063278

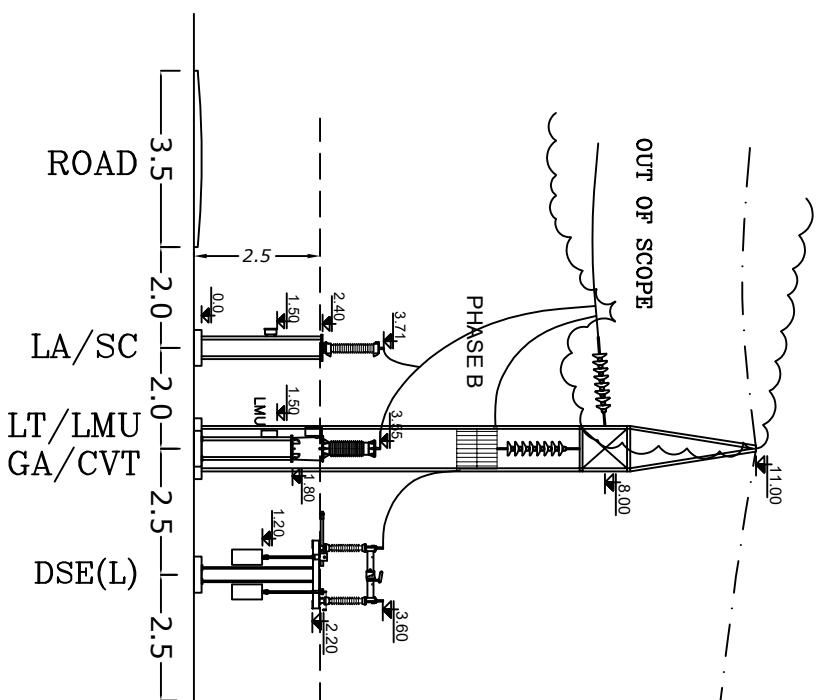
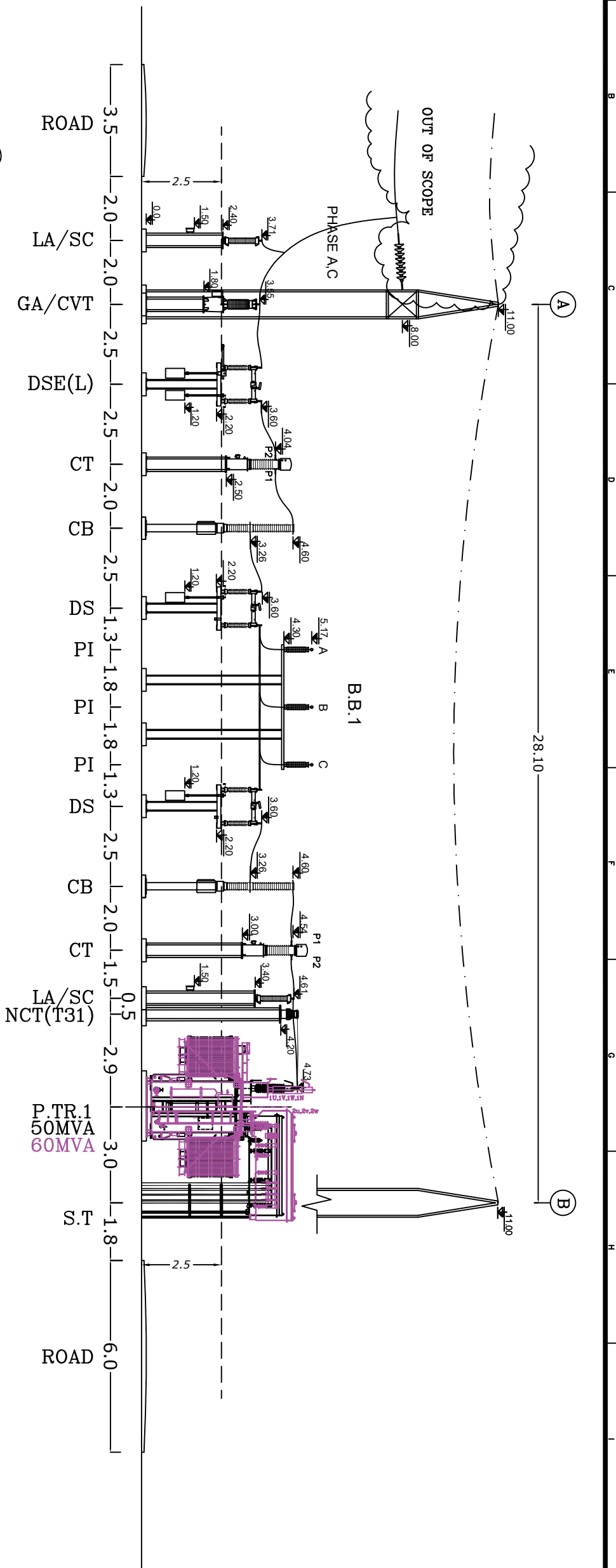
<div>MAZANDARAN REGIONAL ELECTRIC (M.R.E.C)</div> <div></div>	<div>SUB-CONTRACTOR'S LOGO</div>	E								DWG./Doc. No. MD1-BQ-16-SS-E-01-NYO-706	SCALE : 1/300	<div>PROJECT : ROSTAMKOLA 63/20KV AIS S/S</div> <div></div> <div>MOHAM SHARGH CO.</div> <div></div> <div></div> <div>GHODS NIROO CONSULTING ENGINEERS</div>
		D	SUBMITTED TO BE APPROVED	AZARNOUSHIUM	AZARNOUSHIUM	AZARNOUSHIUM	DANESHPOU	1404.10.02				
		C	SUBMITTED FOR APPROVAL	AZARNOUSHIUM	AZARNOUSHIUM	M.NOORI	DANESHPOU	1404.02.04				
	SUB CONTRACTOR DWG. NO.:	B	ACC TO MINUTES 1404/02/15	AZARNOUSHIUM	AZARNOUSHIUM	M.NOORI	DANESHPOU	1404.02.20				
		A	ACC TO LET No. 1403/17802/05/05	AZARNOUSHIUM	AZARNOUSHIUM	M.NOORI	DANESHPOU	1403.12.19				
MAPNA'S DWG. No. : MD1-BQ-16-SS-E-01-NYO-706	NYIYAM'S LOGO	0	FIRST ISSUE	AZARNOUSHIUM	M.NOORI	M.NOORI	DANESHPOU	1403.12.04	DESIGN STAGE :	FILE No.	FORMAT : A3	
		REV.	DESCRIPTION	DWN	DESN	CHKD	APPR	DATE				



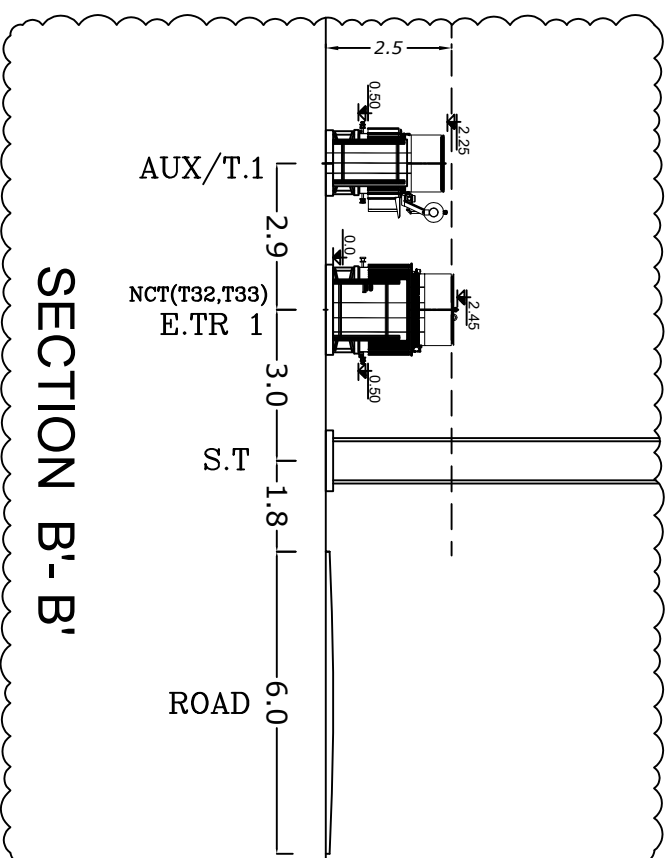
SECTION A-A

SECTION A'-A'

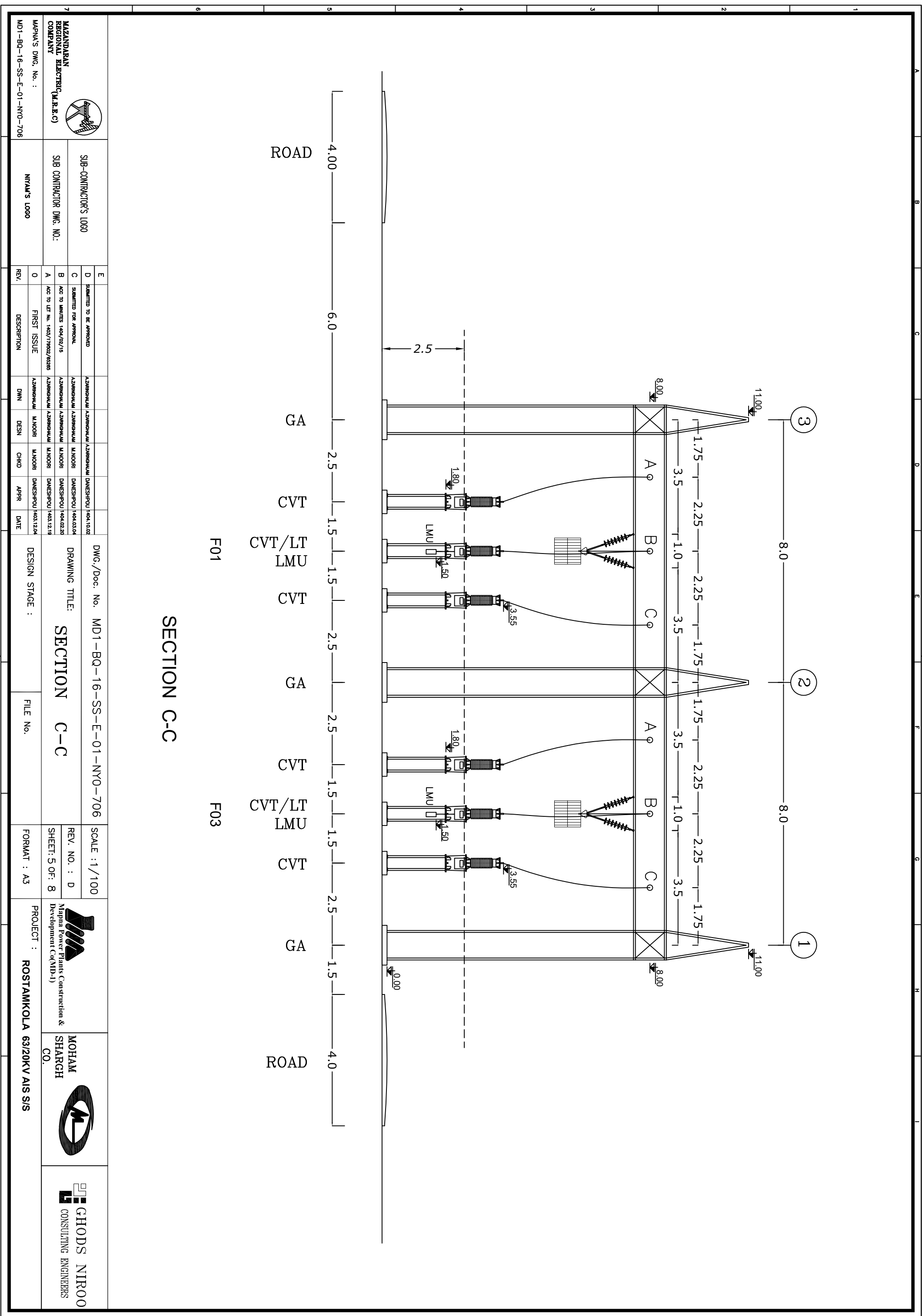
<div><div><div>MAZANDARAN REGIONAL ELECTRIC COMPANY (M.R.E.C)</div><div></div></div><div>MAPNA'S DWG. No. : MD1-BQ-16-SS-E-01-NYO-706</div></div>		<div>SUB-CONTRACTOR'S LOGO</div> <div>SUB CONTRACTOR DWG. NO.:</div>		<div>REV.</div> <div>DESCRIPTION</div>		<div>DWN</div> <div>DESIN</div>		<div>CHMD</div> <div>APPR</div>		<div>DATE</div>		<div>SCALE : 1/150</div> <div>REV. NO. : D</div>		<div>PROJECT : ROSTAMKOLA 63/20KV AIS S/S</div>		<div>MOHAM SHARGH CO.</div> <div></div>		<div>GHODS NIROO CONSULTING ENGINEERS</div> <div></div>	
<div>MAZANDARAN REGIONAL ELECTRIC COMPANY (M.R.E.C)</div> <div>MAPNA'S DWG. No. : MD1-BQ-16-SS-E-01-NYO-706</div>		<div>SUB-CONTRACTOR'S LOGO</div> <div>SUB CONTRACTOR DWG. NO.:</div>		<div>REV.</div> <div>DESCRIPTION</div>		<div>DWN</div> <div>DESIN</div>		<div>CHMD</div> <div>APPR</div>		<div>DATE</div>		<div>SCALE : 1/150</div> <div>REV. NO. : D</div>		<div>PROJECT : ROSTAMKOLA 63/20KV AIS S/S</div>		<div>MOHAM SHARGH CO.</div> <div></div>		<div>GHODS NIROO CONSULTING ENGINEERS</div> <div></div>	



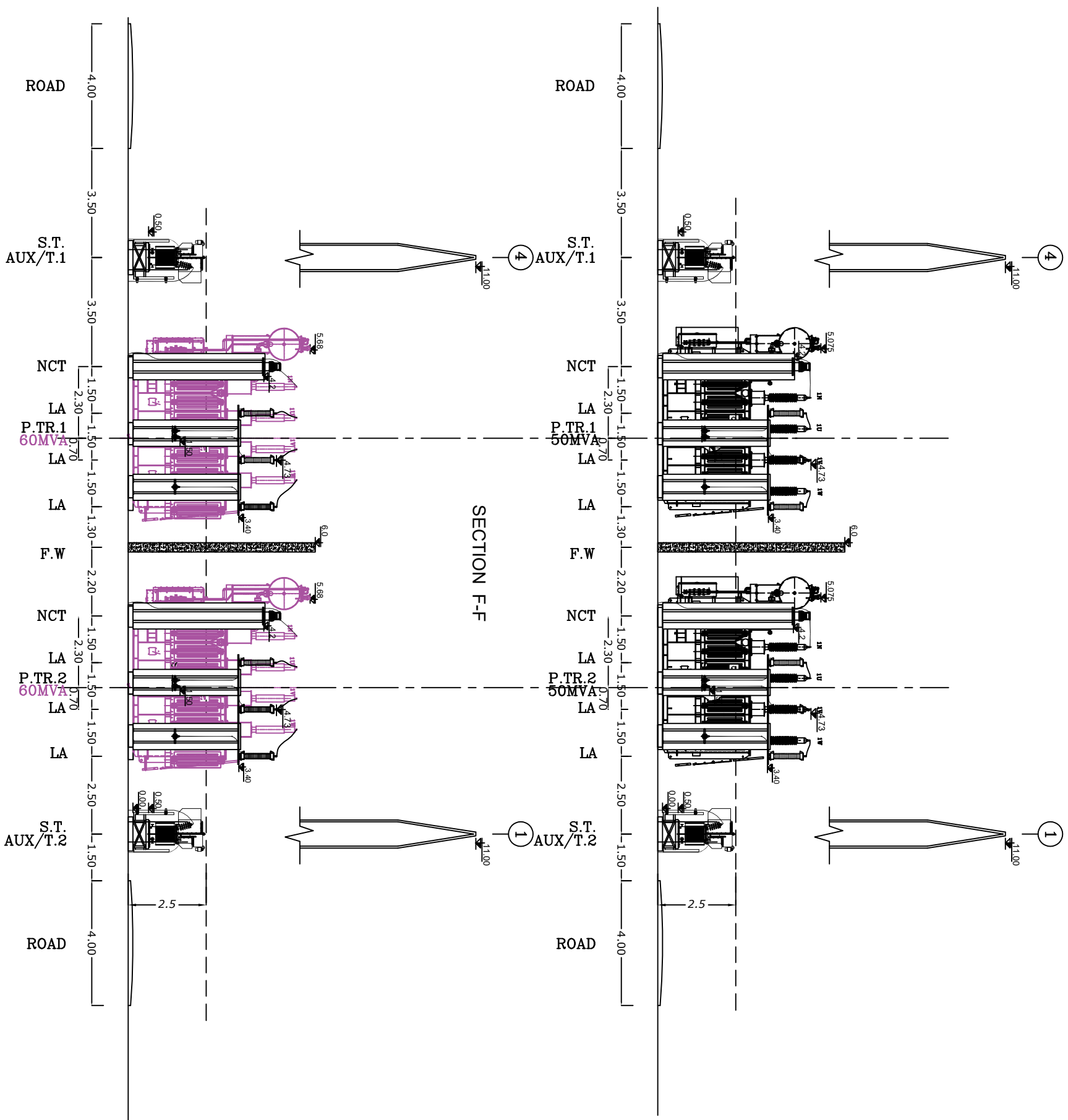
## SECTION B-B



<div>7</div> <div>MAZANDARAN REGIONAL ELECTRIC (M.R.E.C)</div> <div></div>	SUB-CONTRACTOR'S LOGO	E							DWG./Doc. No. MD1-BQ-16-SS-E-01-NYO-706	SCALE : 1/150	<div></div> <div>Mappa Power Plants Construction &amp; Development Co(MD-1)</div>	<div></div> <div>MOHAM SHARGH CO.</div>	<div></div> <div>GHODS NIROO CONSULTING ENGINEERS</div>
		D	SUBMITTED TO BE APPROVED	AZARNESHUJI	AZARNESHUJI	AZARNESHUJI	DAKESHPOU	1404.10.02					
	C	SUBMITTED FOR APPROVAL	AZARNESHUJI	AZARNESHUJI	M.NOORI	DAKESHPOU	1404.03.04						
	B	ACC TO MINUTES 1404/02/15	AZARNESHUJI	AZARNESHUJI	M.NOORI	DAKESHPOU	1404.02.20						
	A	ACC TO LET No. 1403/178502/85208	AZARNESHUJI	AZARNESHUJI	M.NOORI	DAKESHPOU	1403.12.19						
MAPNA'S DWG. No. : MD1-BQ-16-SS-E-01-NYO-706	NYNAM'S LOGO	0	FIRST ISSUE	AZARNESHUJI	M.NOORI	M.NOORI	DAKESHPOU	1403.12.04	DESIGN STAGE :	FILE No.	FORMAT : A3	PROJECT : ROSTAMKOLA 63/20KV AIS S/S	
REV.	DESCRIPTION	DWN	DESN	CHKD	APPR	DATE							








<div>MAZDAPARAN REGIONAL ELECTRIC COMPANY (M.R.E.C)</div> <div></div>	<div>SUB-CONTRACTOR'S LOGO</div> <div>SUB CONTRACTOR DWG. NO.:</div>	E							DWG./Doc. No. MD1-BQ-16-SS-E-01-NYO-706	SCALE : 1/150	<div></div> <div>PROJECT : ROSTAMKOLA 63/20KV AIS S/S</div>	<div></div> <div>MOHAM SHARGH CO.</div>	<div></div> <div>GHODS NIROO CONSULTING ENGINEERS</div>
		D	SUBMITTED TO BE APPROVED	AZARSHAHU	AZARSHAHU	AZARSHAHU	DANESHPOU 1404.10.02						
		C	SUBMITTED FOR APPROVAL	AZARSHAHU	AZARSHAHU	MANOORI	DANESHPOU 1404.03.04						
		B	ACC TO MINUTES 1404/02/15	AZARSHAHU	AZARSHAHU	MANOORI	DANESHPOU 1404.02.20						
		A	ACC TO LET No. 1403/173502/02350	AZARSHAHU	AZARSHAHU	MANOORI	DANESHPOU 1403.12.18						
MAPANA'S DWG. No. : MD1-BQ-16-SS-E-01-NYO-706	NIRAOI'S LOGO	0	FIRST ISSUE	AZARSHAHU	MANOORI	MANOORI	DANESHPOU 1403.12.04		DESIGN STAGE :	FILE No.	FORMAT : A3		
REV.	DESCRIPTION	DWN	DSN	CHND	APPR	DATE							





<div>MZADABARAN REGIONAL ELECTRIC COMPANY</div> <div></div>																						
	SUB-CONTRACTOR'S LOGO																					
	SUB CONTRACTOR DWG. NO.:																					
MAPNA'S DWG. No. : MD1-BQ-16-SS-E-01-NYO-706		NITAM'S LOGO																				
REV.		0		FIRST ISSUE		AZERBAIJAN		M.NOORI		M.NOORI		DANESHPOU		1403.12.04								
		REV.		DESCRIPTION		DWN		DESN		CHKO		APPR		DATE								