



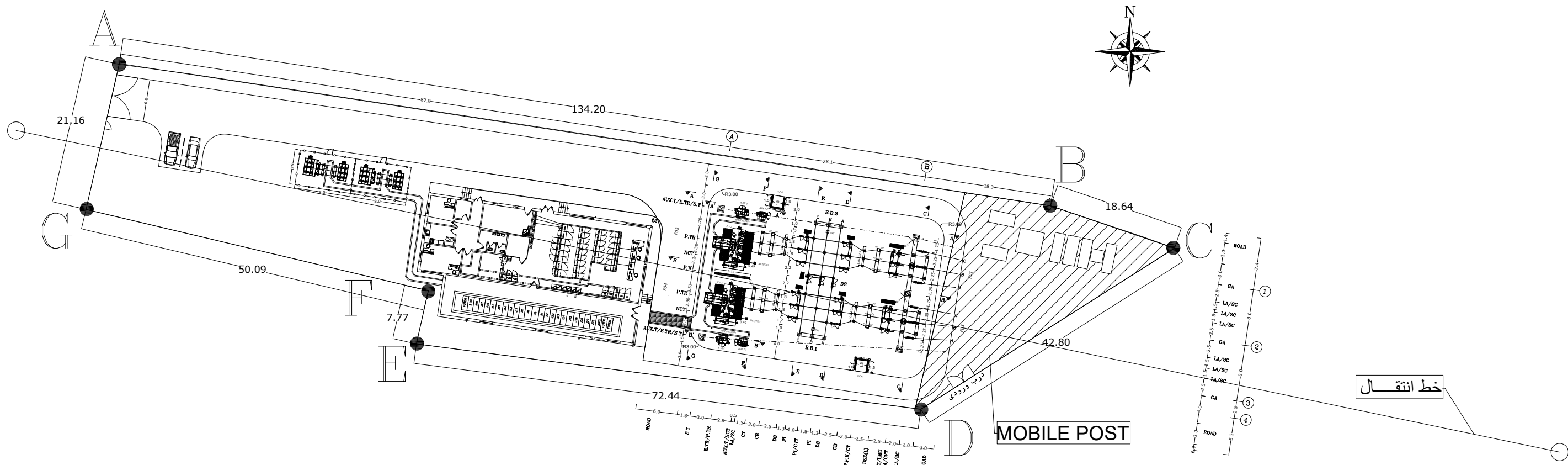


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Page	Description	Revision			
		<i>Z</i>	<i>A</i>	<i>B</i>	<i>C</i>
00	COVER SHEET	X	X		
01	INDEX	X	X		
02	GENERAL LAYOUT WITH MOBILE POST	X	X		
03	GENERAL LAYOUT WITHOUT MOBILE POST		X		
04	SECTION A-A	X	X		
05	SECTION B-B	X	X		
06	SECTION C-C	X	X		
07	SECTION D-D&E-E	X	X		
08	SECTION F-F	X	X		
09	SECTION G-G	X	X		

<div><div>MAZANDARAN REGIONAL ELECTRIC COMPANY</div><div>(M.R.E.C)</div></div>	SUB-CONTRACTOR'S LOGO								DWG./Doc. No. MD1-BQ-14-SS-E-01-NY0-706	SCALE :	<div><div>Mapna Power Plants Construction & Development Co(MD-1)</div></div>	<div>MOHAM SHARGH CO.</div> <div></div>	<div><div>GHODS NIROO CONSULTING ENGINEERS</div></div>
	SUB CONTRACTOR DWG. NO.:	A	ISSUE FOR APPROVE	GHAFOURIAN	GHAFOURIAN	M.NOORI	DANESHPOU	1404.07.02	DRAWING TITLE: <div>INDEX</div>	REV. NO. : A SHEET: 1 OF: 9	PROJECT : GONBAD - 5 63/20KV AIS S/S		
MAPNA'S DWG, No. : MD1-BQ-14-SS-E-01-NY0-706	NIYAM'S LOGO	Z	FIRST ISSUE	GHAFOURIAN	GHAFOURIAN	M.NOORI	DANESHPOU	1404.06.26					
		REV.	DESCRIPTION	DWN	DESN	CHKD	APPR	DATE					
									DESIGN STAGE :	FILE No.	FORMAT : A3		

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ABBREVIATION	DESCRIPTION
CVT	CAPACITIVE VOLTAGE TRANSFORMER
LMU	LINE MACHING UNIT
LT	LINE TRAP
CT	CURRENT TRANSFORMER
CB	CIRCUIT BREAKER
DS	DISCONNECTING SWICH
DSE	DISCONNECTING SWICH WITH EARTHING SWICH
P.TR	POWER TRANSFORMER
AUX.T	AUXILLIARY TRANSFORMER
E.TR	EARTHING TRANSFORMER
NCT	NUTRAL CURRENT TRANSFORMER
LA	LIGHTNING ARRESTER
PI	POST INSULATOR
GA	GANTRY
S.T	STATIC TOWER
FW	FIRE WALL
F.F.K	FIRE FIGHTING KIOSK

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 Grades	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

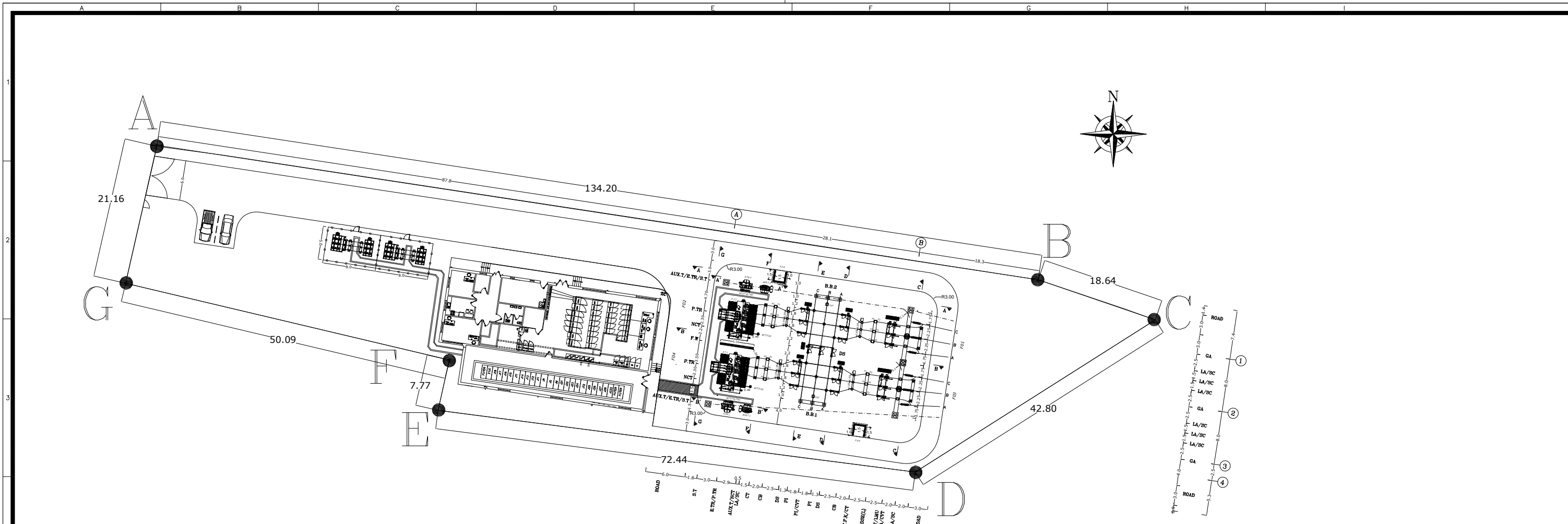
T01-T02 POWER TRANSFORMER 63/20KV 50MVA YNd11	Aux.T1-Aux.T2 AUXILLIARY TRANSFORMER 20/0.4KV 250KVA Dyn5	ER.T1-ER.T2 EARTHING TRANSFORMER 20KV 1554A Zn
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N	X	y
A	337854.750	4122291.630
B	337987.437	4122271.533
C	338005.070	4122265.490
D	337968.930	4122242.580
E	337897.090	4122251.880
F	337898.781	4122259.464
G	337850.040	4122271.010

NOTE: ALL DIMENSIONS ARE IN m.

<div> MAZANDARAN REGIONAL ELECTRIC COMPANY (M.R.E.C)</div>	SUB-CONTRACTOR'S LOGO								DWG./Doc. No. MD1-BQ-14-SS-E-01-NYO-706	SCALE :	<div> Mapna Power Plants Construction & Development Co(MD-1)</div>	<div> MOHAM SHARGH CO.</div>	<div> GHODS NIROO CONSULTING ENGINEERS</div>
	SUB CONTRACTOR DWG. NO.:								DRAWING TITLE: LAYOUT WITH MOBILE POST	REV. NO. : A			
		A	ISSUE FOR APPROVE	GHAFOURIAN	GHAFOURIAN	M.NOORI	DANESHPOU	1404.07.02		SHEET: 2 OF: 9			
	MAPNA'S DWG. No. : MD1-BQ-14-SS-E-01-NYO-706	NIYAM'S LOGO	Z	FIRST ISSUE	GHAFOURIAN	GHAFOURIAN	M.NOORI	DANESHPOU	1404.06.26	DESIGN STAGE :	FILE No.	FORMAT : A3	PROJECT : GONBAD - 5 63/20KV AIS S/S
		REV.	DESCRIPTION	DWN	DESN	CHKD	APPR	DATE					

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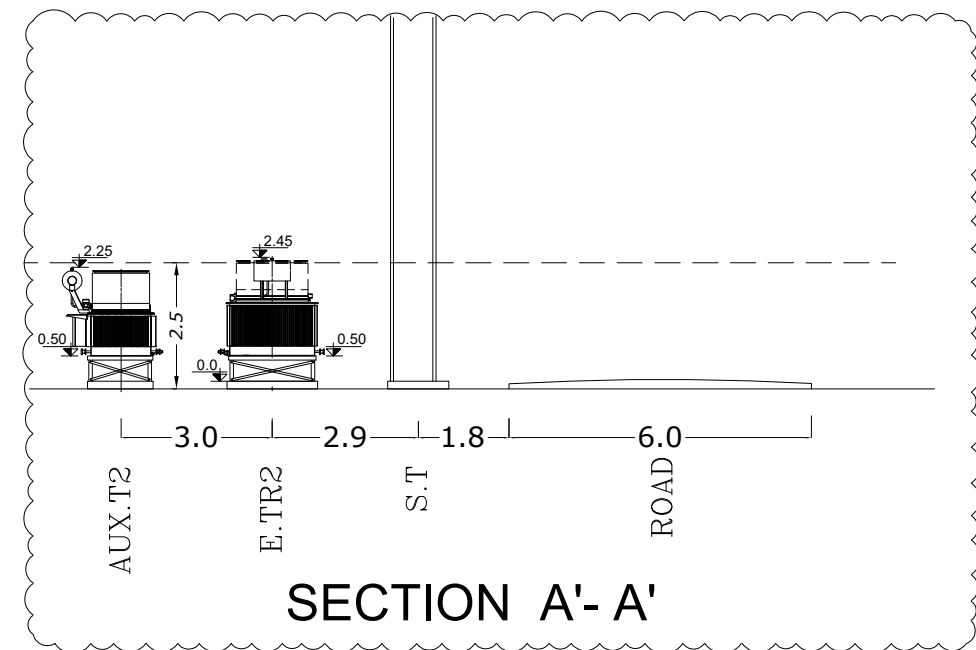
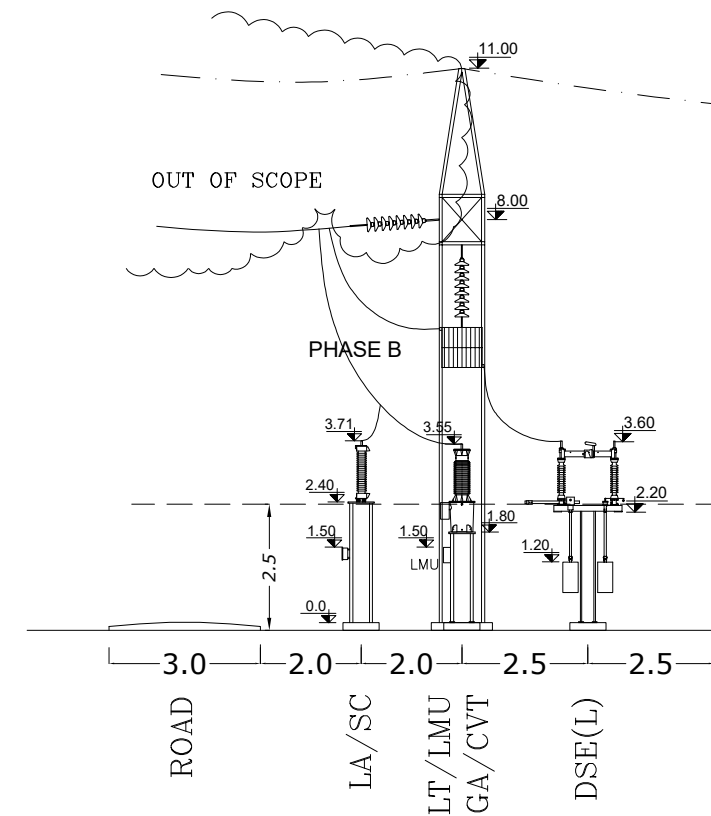
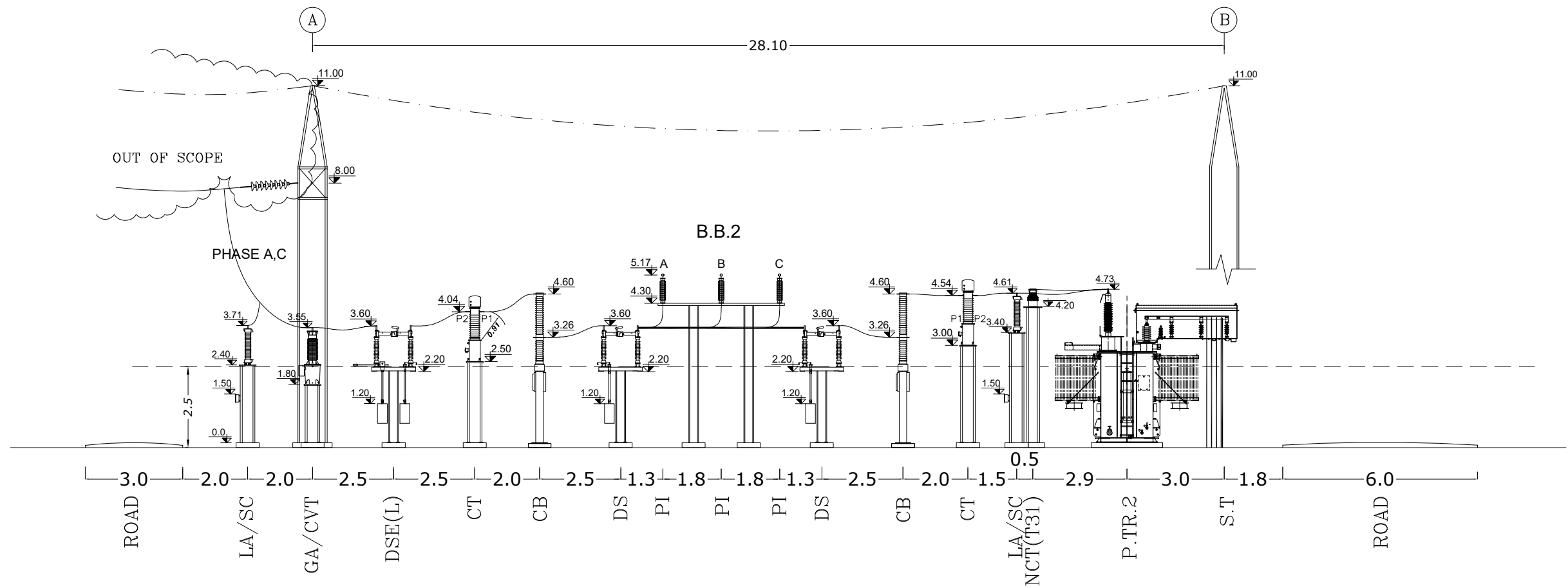
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B	337987.437	4122271.533
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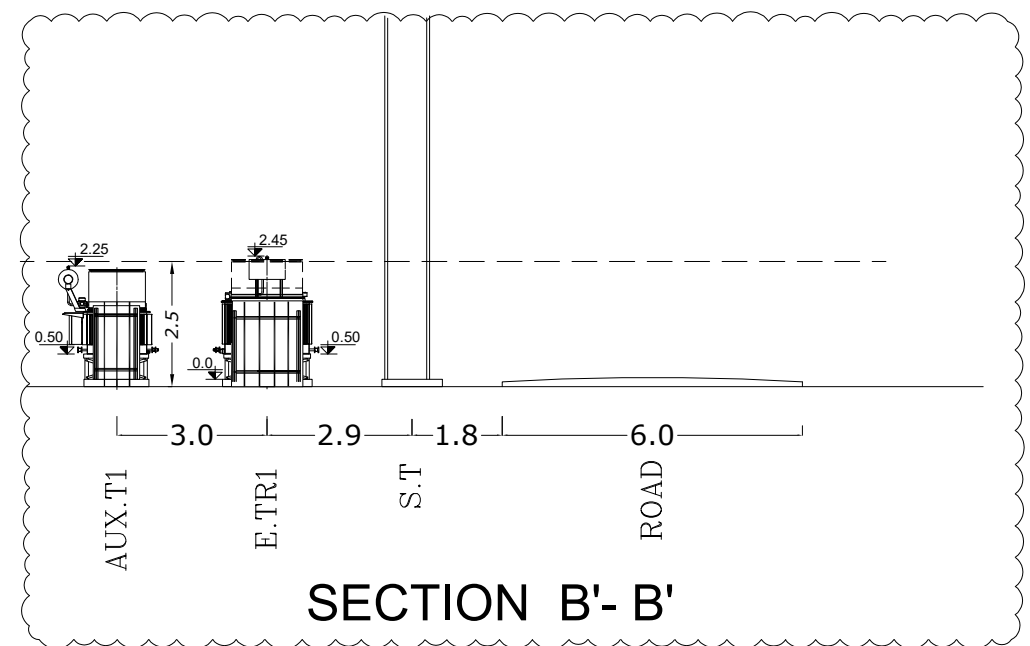
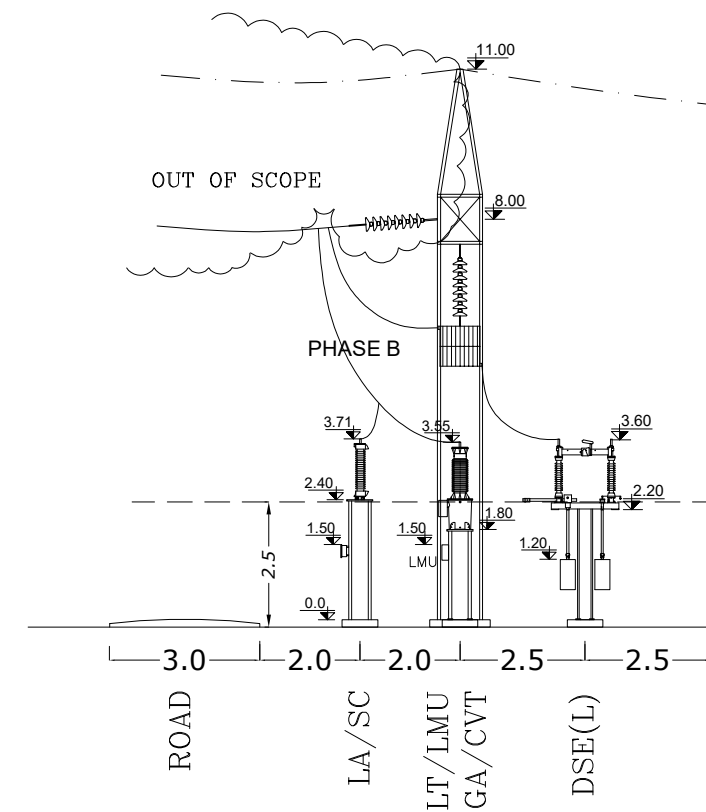
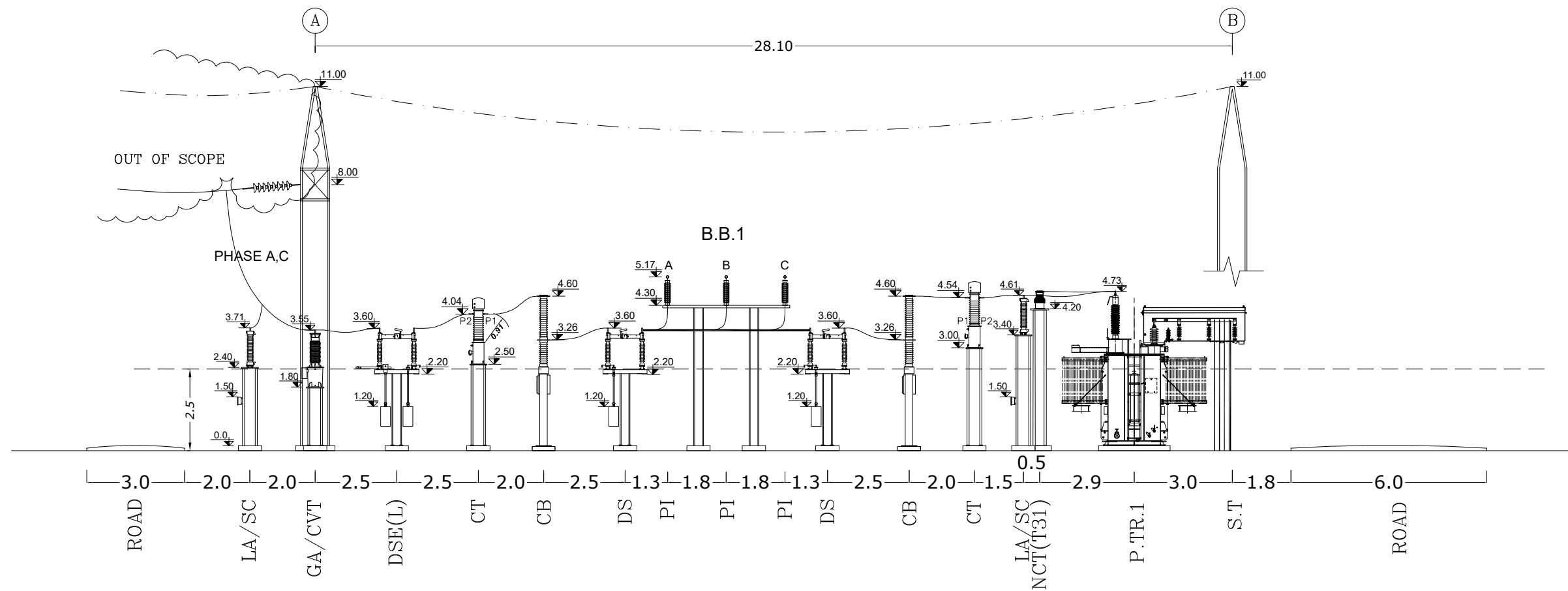
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		SUB CONTRACTOR DWG. NO.:										DRAWING TITLE:				REV. NO. : A
												LAYOUT WITHOUT MOBILE POST				SHEET: 3 OF: 9
	MAPNA'S DWG. No. : MD1-BQ-14-SS-E-01-NYO-706	NIYAM'S LOGO	A	ISSUE FOR APPROVE	GHAFOURIAN	GHAFOURIAN	M.NOORI	DANESHPOU	1404.07.02	DESIGN STAGE :	FILE No.	FORMAT : A3	PROJECT : GONBAD - 5 63/20KV AIS S/S			
			Z	FIRST ISSUE	GHAFOURIAN	GHAFOURIAN	M.NOORI	DANESHPOU	1404.06.26							
		REV.	DESCRIPTION	DWN	DESN	CHKD	APPR	DATE								

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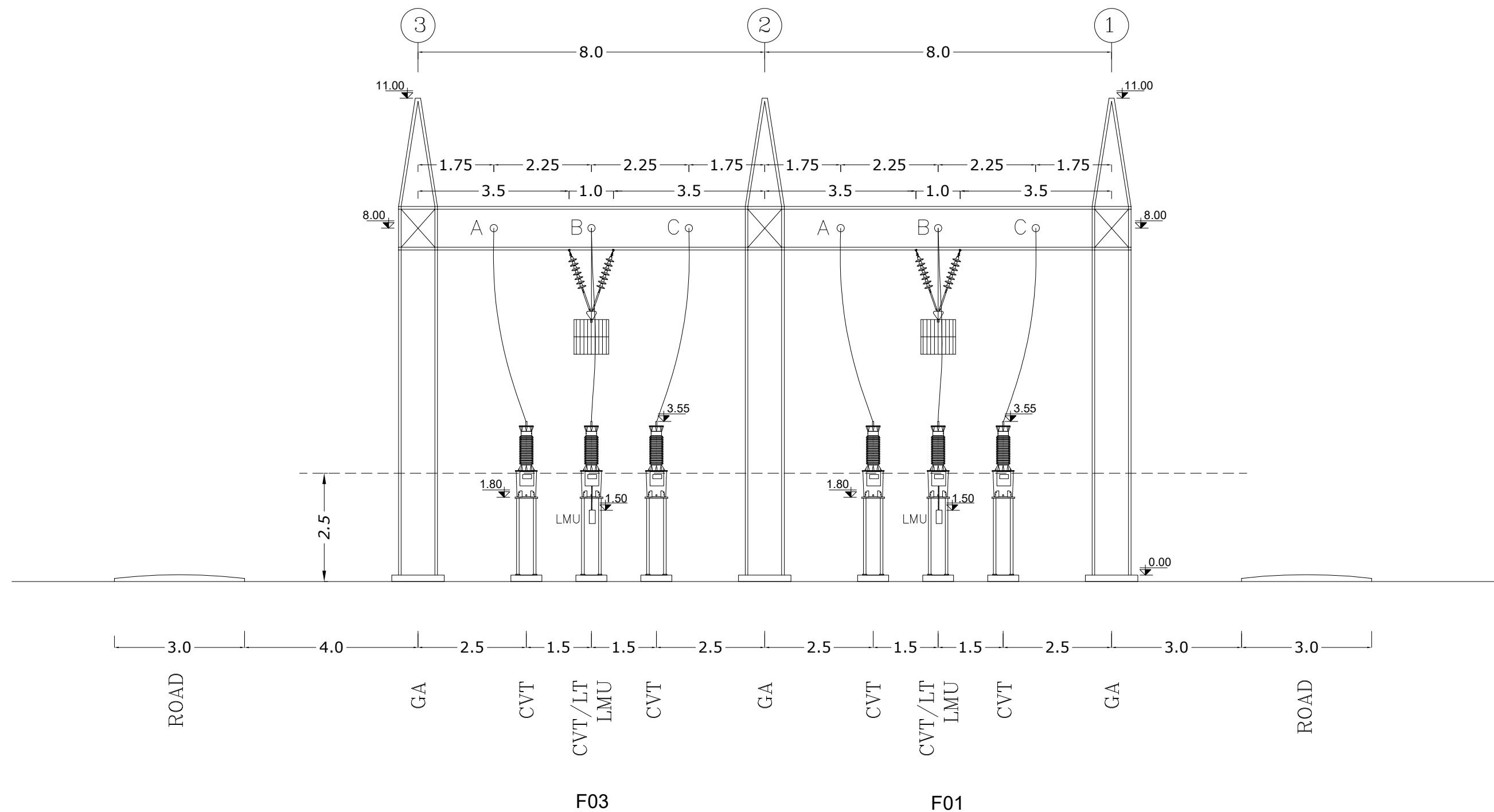
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MAPNA'S DWG. No. : MD1-BQ-14-SS-E-01-NYO-706	NIYAM'S LOGO	A	ISSUE FOR APPROVE	GHAFOURIAN	GHAFOURIAN	M.NOORI	DANESHPOU	1404.07.02	DESIGN STAGE :		FILE No.	FORMAT : A3	PROJECT : GONBAD - 5 63/20KV AIS S/S		
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		REV.	DESCRIPTION	DWN	DESN	CHKD	APPR	DATE							

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<div><div><div></div></div><div><div>MAZANDARAN REGIONAL ELECTRIC COMPANY</div></div></div> <div><div>(M.R.E.C)</div></div>	<div>SUB-CONTRACTOR'S LOGO</div>								DWG./Doc. No. MD1-BQ-14-SS-E-01-NY0-706	SCALE : 1/150	<div><div><div></div></div><div><div>Mapna Power Plants Construction & Development Co(MD-1)</div></div></div> <div>PROJECT : GONBAD - 5 63/20KV AIS S/S</div>	<div><div><div></div></div><div><div>MOHAM SHARGH CO.</div></div></div>	<div><div><div></div></div><div><div>GHODS NIROO CONSULTING ENGINEERS</div></div></div>	
										DRAWING TITLE: SECTION B-B				REV. NO. : A
														SHEET: 5 OF: 9
<div>MAPNA'S DWG. No. : MD1-BQ-14-SS-E-01-NY0-706</div>	<div>NIYAM'S LOGO</div>	A	ISSUE FOR APPROVE	GHAFOURIAN	GHAFOURIAN	M.NOORI	DANESHPOU	1404.07.02	DESIGN STAGE :	FILE No.	FORMAT : A3			
		Z	FIRST ISSUE	GHAFOURIAN	GHAFOURIAN	M.NOORI	DANESHPOU	1404.06.26						
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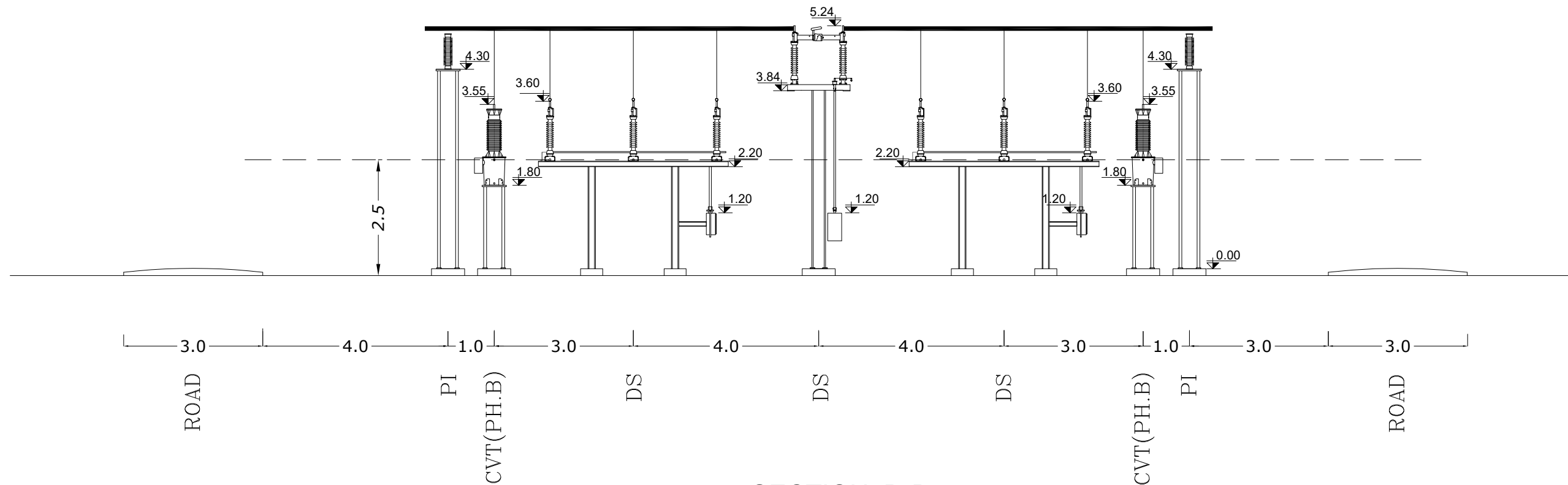
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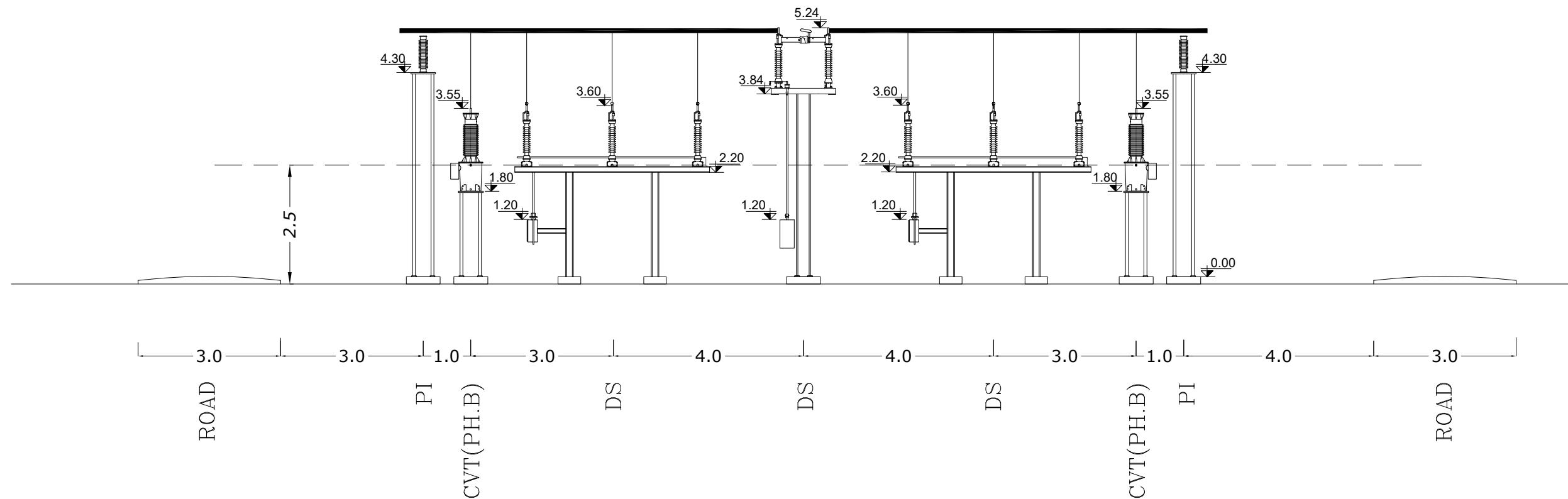
SECTION C-C

 MAZANDARAN REGIONAL ELECTRIC COMPANY (M.R.E.C)	SUB-CONTRACTOR'S LOGO								DWG./Doc. No. MD1-BQ-14-SS-E-01-NY0-706	SCALE : 1/100	 Mapna Power Plants Construction & Development Co(MD-1)	 MOHAM SHARGH CO.	 GHODS NIROO CONSULTING ENGINEERS
	SUB CONTRACTOR DWG. NO.:								DRAWING TITLE: SECTION C-C	REV. NO. : A			
										SHEET: 6 OF: 9			
	MAPNA'S DWG. No. : MD1-BQ-14-SS-E-01-NY0-706	NIYAM'S LOGO	A	ISSUE FOR APPROVE	GHAFOURIAN	GHAFOURIAN	M.NOORI	DANESHPOU	1404.07.02	DESIGN STAGE :	FILE No.	FORMAT : A3	PROJECT : GONBAD - 5 63/20KV AIS S/S
		Z	FIRST ISSUE	GHAFOURIAN	GHAFOURIAN	M.NOORI	DANESHPOU	1404.06.26					
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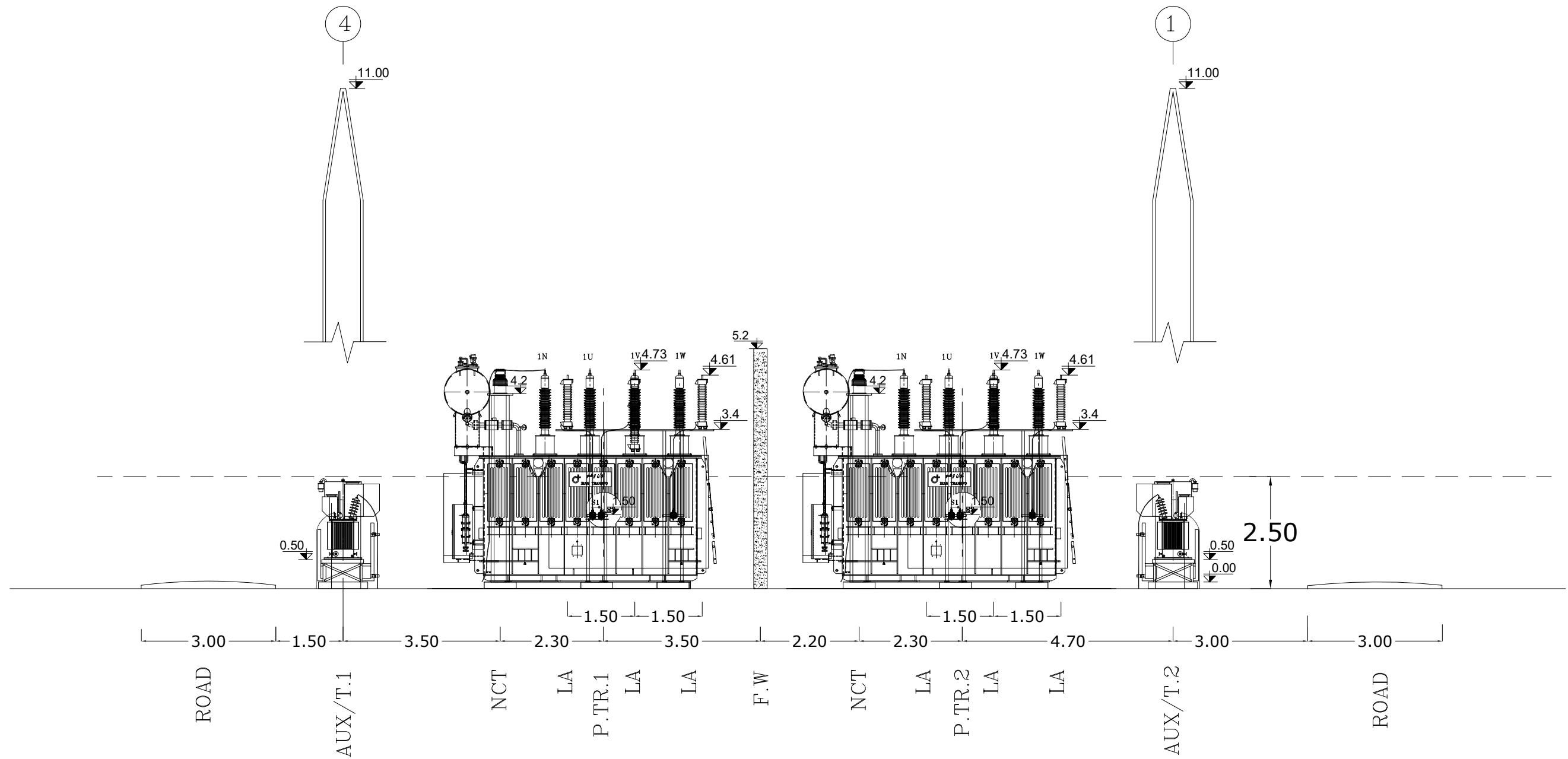
SECTION D-D







SECTION E-E

<div></div> <div>MAZANDARAN REGIONAL ELECTRIC COMPANY (M.R.E.C)</div>	SUB-CONTRACTOR'S LOGO									DWG./Doc. No. MD1-BQ-14-SS-E-01-NYO-706	SCALE :1/100	<div></div> <div>Mapna Power Plants Construction & Development Co(MD-1)</div>	<div></div> <div>MOHAM SHARGH CO.</div>	<div></div> <div>GHODS NIROO CONSULTING ENGINEERS</div>	
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											SHEET: 7 OF: 9				
	MAPNA'S DWG. No. : MD1-BQ-14-SS-E-01-NYO-706	NIYAM'S LOGO	A	ISSUE FOR APPROVE	GHAFOURIAN	GHAFOURIAN	M.NOORI	DANESHPOU	1404.07.02		DESIGN STAGE :	FILE No.	FORMAT : A3		PROJECT : GONBAD - 5 63/20KV AIS S/S
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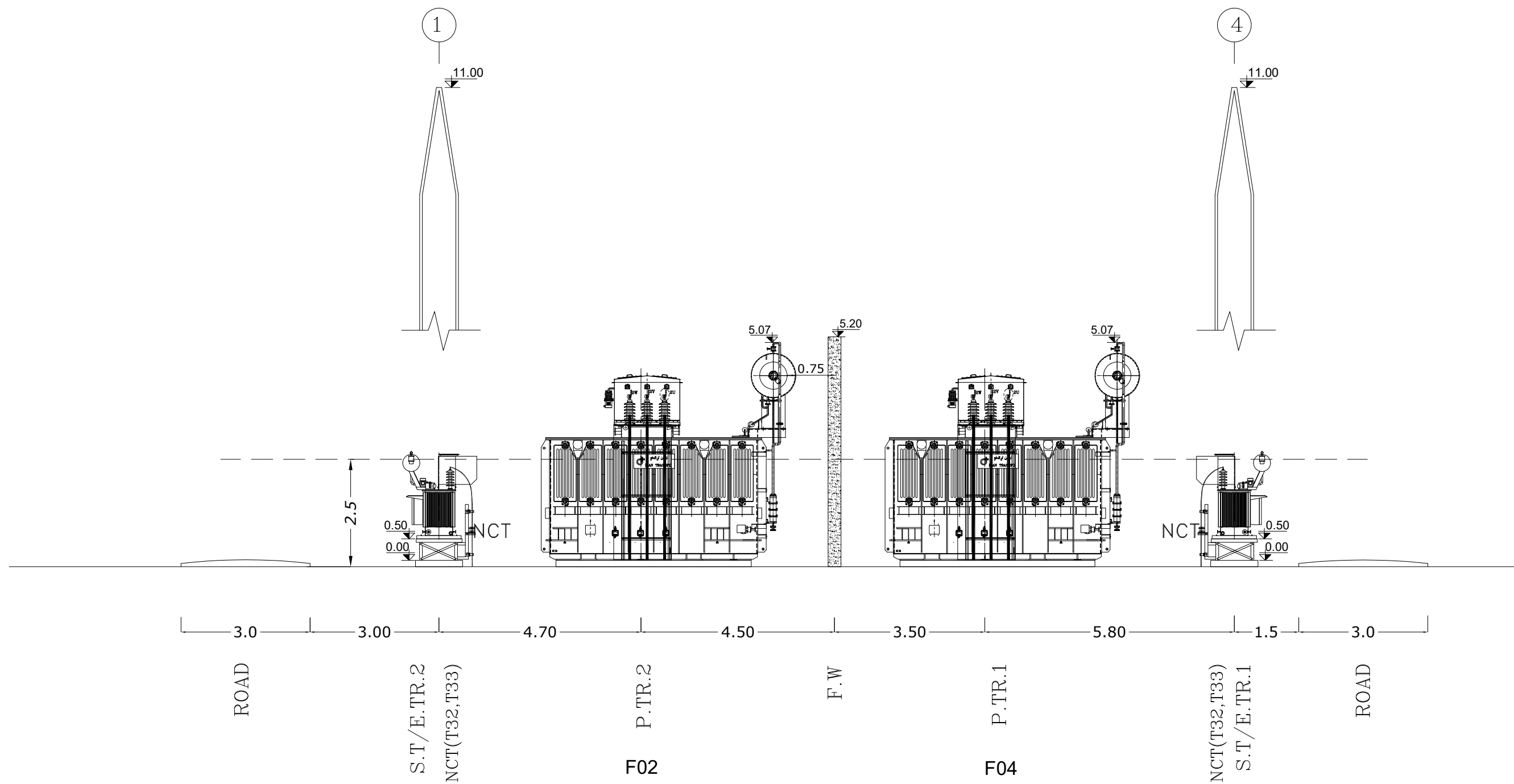
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SECTION F-F

<div><p>MAZANDARAN REGIONAL ELECTRIC COMPANY (M.R.E.C.)</p></div>	SUB-CONTRACTOR'S LOGO								DWG./Doc. No.	MD1-BQ-14-SS-E-01-NY0-706	SCALE : 1/100	<div><p>Mapna Power Plants Construction & Development Co(MD-1)</p></div>	<div><p>MOHAM SHARGH CO.</p></div>	<div><p>GHODS NIROO CONSULTING ENGINEERS</p></div>
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	Z	FIRST ISSUE	GHAFOURIAN	GHAFOURIAN	M.NOORI	DANESHPOU	1404.06.26			FORMAT : A3	PROJECT : GONBAD - 5 63/20KV AIS S/S			
MAPNA'S DWG. No. : MD1-BQ-14-SS-E-01-NY0-706	NIYAM'S LOGO	REV.	DESCRIPTION	DWN	DESN	CHKD	APPR	DATE						

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SECTION G-G

<div> MAZANDARAN REGIONAL ELECTRIC COMPANY (M.R.E.C.)</div> <div>MAPNA'S DWG. No. : MD1-BQ-14-SS-E-01-NY0-706</div>	SUB-CONTRACTOR'S LOGO								DWG./Doc. No. MD1-BQ-14-SS-E-01-NY0-706		SCALE : 1/100	<div> Mapna Power Plants Construction & Development Co(MD-1)</div>	<div> MOHAM SHARGH CO.</div>	<div> GHODS NIROOM CONSULTING ENGINEERS</div>
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	Z		FIRST ISSUE	GHAFOURIAN	GHAFOURIAN	M.NOORI	DANESHPOU	1404.06.26					FORMAT : A3	
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