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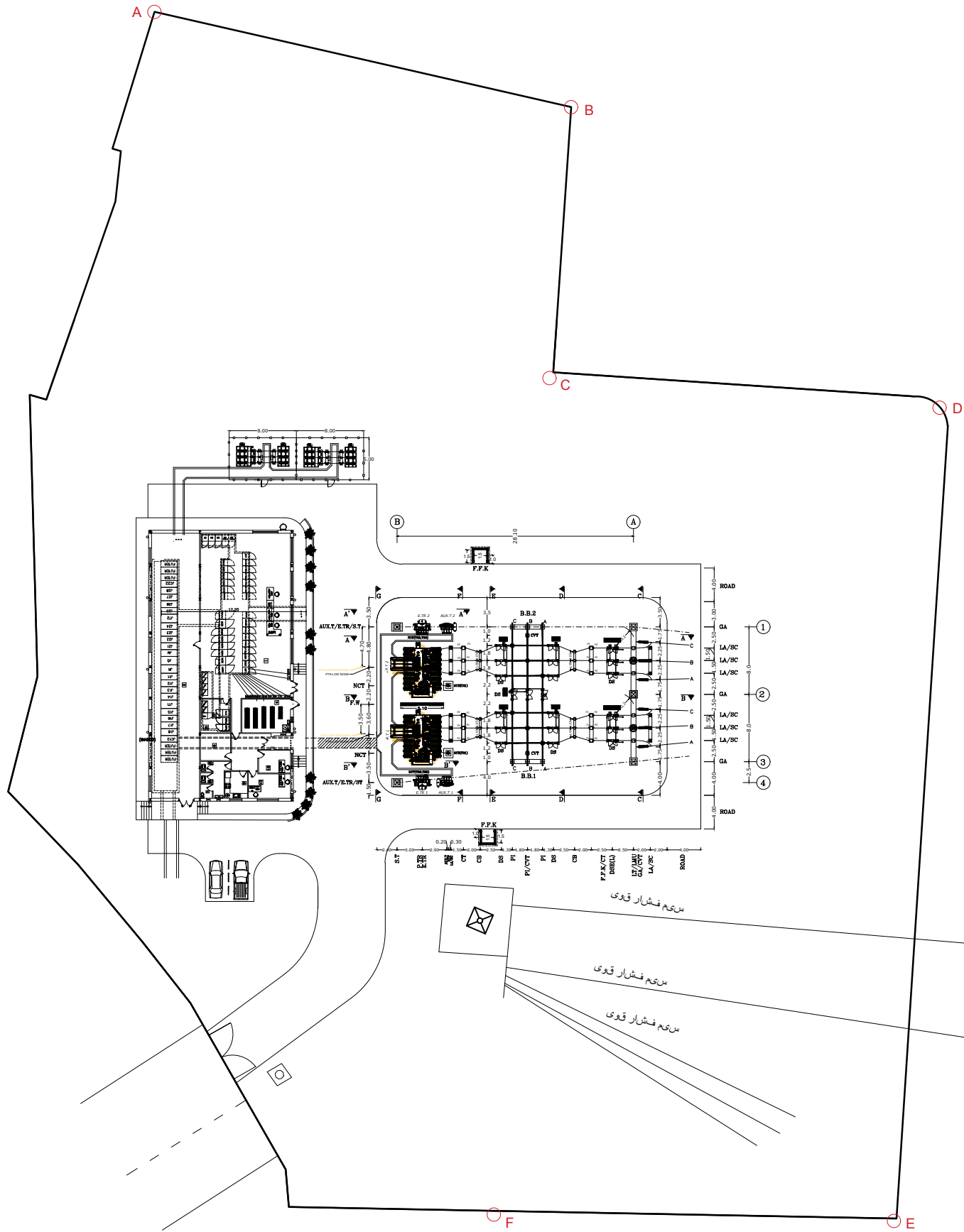

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



ABBREVIATION	DESCRIPTION
CVT	CAPACITIVE VOLTAGE TRANSFORMER
LMU	LINE MACHING UNIT
LT	LINE TRAP
CT	CURRENT TRANSFORMER
CB	CIRCUIT BREAKER
DS	DISCONNECTING SWITCH
DSE	DISCONNECTING SWICH WITH EARTHING SWITCH
P.TR	POWER TRANSFORMER
AUX.T	AUXILIARY 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	Aux.T1-Aux.T2	ER.T1-ER.T2
POWER TRANSFORMER	AUXILIARY TRANSFORMER	EARTHING TRANSFORMER
63/20KV	20/0.4KV	20KV
50MVA	250KVA	1443A
YNd11	Dyn5	Zn

POINT	X	Y
A	684978.7	4051112.5
B	685028.7	4051121.6
C	685039	4051091
D	685083	4051106
E	685116	4051016
F	685072	4050997



<div></div> <div>MAZANDARAN REGIONAL ELECTRIC COMPANY (M.R.E.C)</div>	SUB-CONTRACTOR'S LOGO								DWG./Doc. No.MD1-BQ-15-SS-E-01-NYO-706	SCALE :	<div></div> <div>Mapna Power Plants Construction &amp; Development Co(MD-1)</div>	<div></div> <div>MOHAM SHARGH CO.</div>	<div></div> <div>GHODS NIROO CONSULTING ENGINEERS</div>
	SUB CONTRACTOR DWG. NO.:	C	ISSUE FOR APPROED	M.HOSEINI	M.NOORI	M.NOORI	DANESHPOU	1404.08.28	DRAWING TITLE:  GENERAL LAYOUT 00	REV. NO. : C			
		B	ISSUE FOR APPROED	M.HOSEINI	M.NOORI	M.NOORI	DANESHPOU	1404.03.12		SHEET: OF: 17			
		A	ISSUE FOR APPROED	M.HOSEINI	M.NOORI	M.NOORI	DANESHPOU	1404.01.25					
	MAPNA'S DWG. No. : MD1-BQ-15-SS-E-01-NYO-706	NIYAM'S LOGO	O	FIRST ISSUE	M.HOSEINI	M.NOORI	M.NOORI	DANESHPOU	1403.12.28	DESIGN STAGE :	FILE No.	FORMAT : A3	
		REV.	DESCRIPTION	DWN	DESN	CHKD	APPR	DATE					

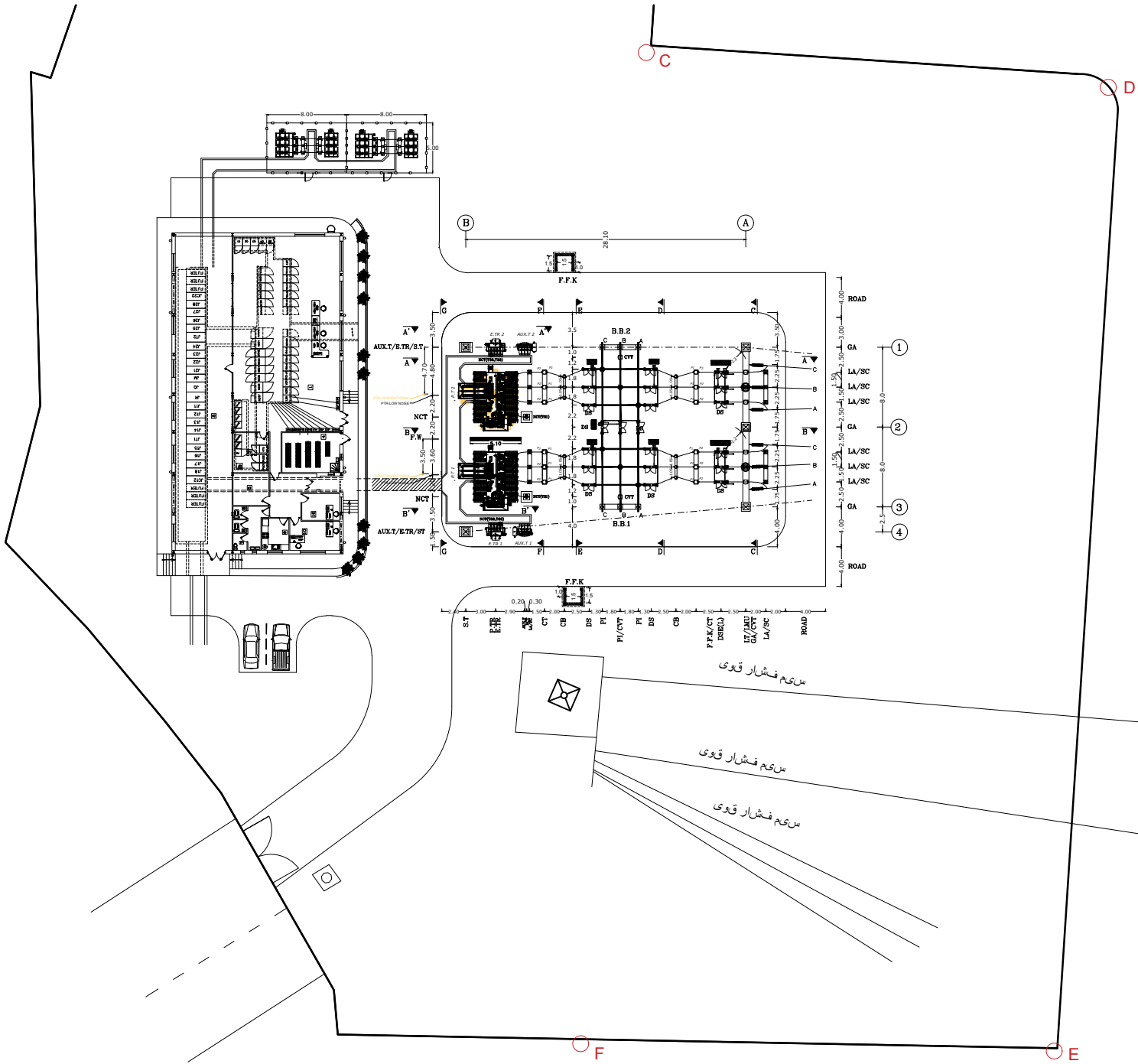
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E.TR	EARTHING TRANSFORMER
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T01-T02 POWER TRANSFORMER 63/20KV 50MVA YNd11	Aux.T1-Aux.T2 AUXILIARY TRANSFORMER 20/0.4KV 250KVA Dyn5	ER.T1-ER.T2 EARTHING TRANSFORMER 20KV 1443A Zn
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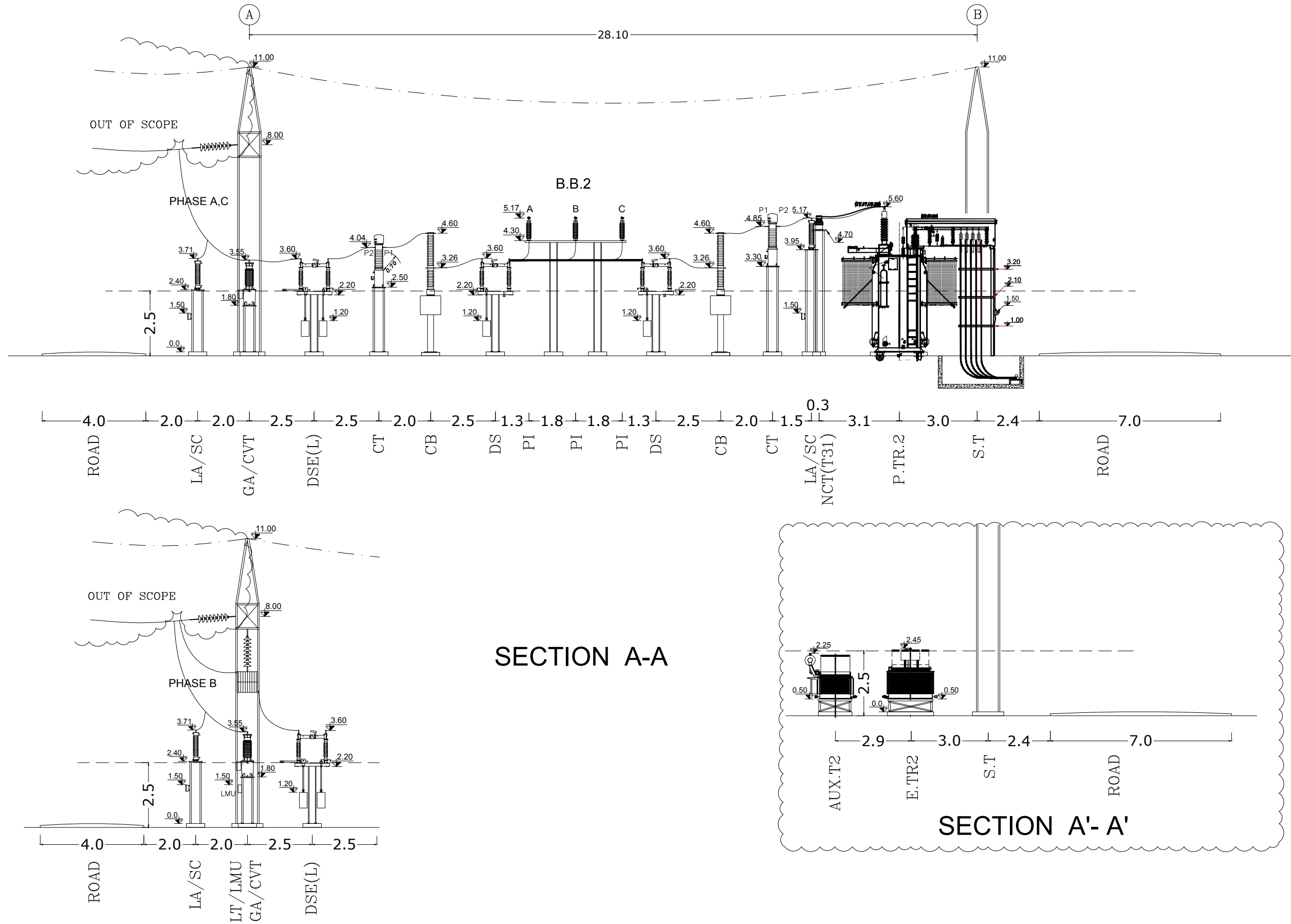
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B	685028.7	4051121.6
C	685039	4051091
D	685083	4051106
E	685116	4051016
F	685072	4050997







 MAZANDARAN REGIONAL ELECTRIC COMPANY (M.R.E.C)	SUB-CONTRACTOR'S LOGO								DWG./Doc. No.MD1-BQ-15-SS-E-01-NY0-706	SCALE :1/400	 Mapna Power Plants Construction & Development Co(MD-1)	MOHAM SHARGH CO.	 GHODS NIROO CONSULTING ENGINEERS
	SUB CONTRACTOR DWG. NO.:								DRAWING TITLE: GENERAL LAYOUT 01	REV. NO. : C			
									SHEET:3 OF: 17				
	MAPNA'S DWG. No. : MD1-BQ-15-SS-E-01-NY0-706	NIYAM'S LOGO	REV.	DESCRIPTION	DWN	DESN	CHKD	APPR	DATE	DESIGN STAGE :	FILE No.	FORMAT : A3	PROJECT : SARI7 63/20KV AIS S/S

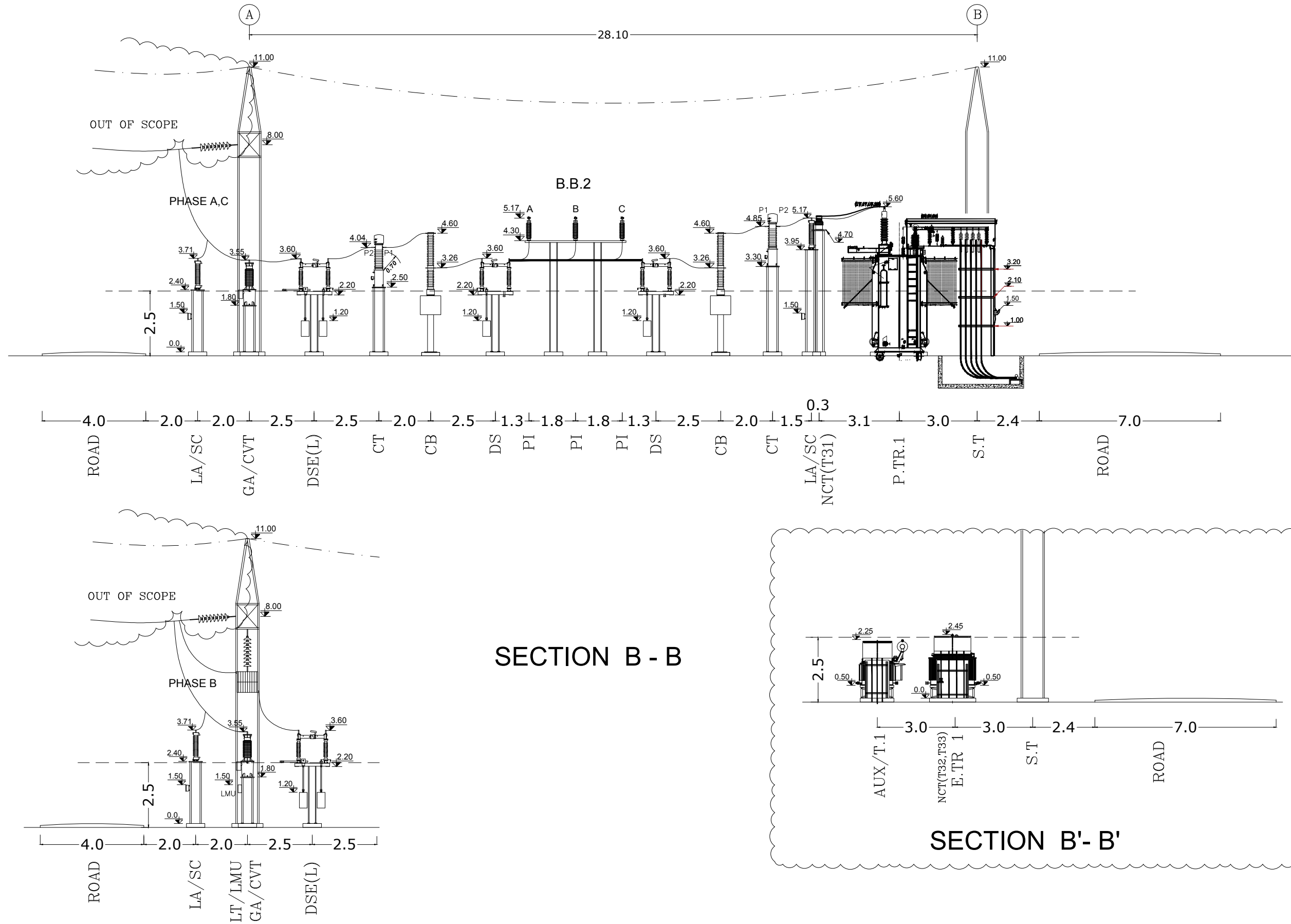






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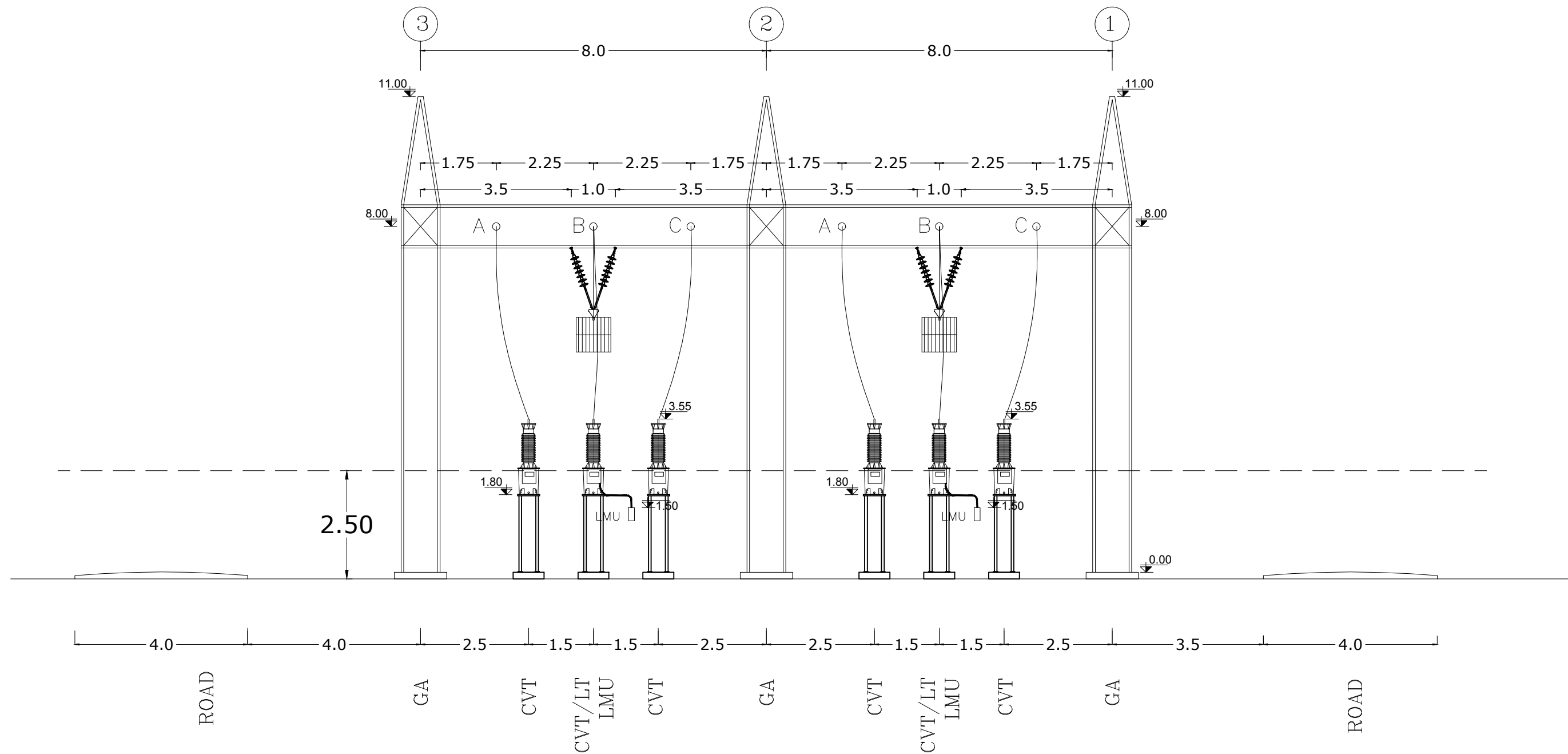
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		C	ISSUE FOR APPROED	M.HOSEINI	M.NOORI	M.NOORI	DANESHPOU	1404.08.28	DRAWING TITLE:  SECTION A-A	REV. NO. : C			
		SUB CONTRACTOR DWG. NO.:	B	ISSUE FOR APPROED	M.HOSEINI	M.NOORI	M.NOORI	DANESHPOU		1404.03.12			
	A		ISSUE FOR APPROED	M.HOSEINI	M.NOORI	M.NOORI	DANESHPOU	1404.01.25					
	MAPNA'S DWG. No. : MD1-BQ-15-SS-E-01-NY0-706	NIYAM'S LOGO	O	FIRST ISSUE	M.HOSEINI	M.NOORI	M.NOORI	DANESHPOU	1403.12.28	DESIGN STAGE :			
	REV.		DESCRIPTION	DWN	DESN	CHKD	APPR	DATE					

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<div> MAZANDARAN REGIONAL ELECTRIC COMPANY (M.R.E.C)</div>	SUB-CONTRACTOR'S LOGO								DWG./Doc. No.MD1-BQ-15-SS-E-01-NY0-706		SCALE :1/150		<div> Mapna Power Plants Construction &amp; Development Co(MD-1)</div>	<div> MOHAM SHARGH CO.</div>	<div>GHODS NIROO CONSULTING ENGINEERS</div>		
		C	ISSUE FOR APPROED	M.HOSEINI	M.NOORI	M.NOORI	DANESHPOU	1404.08.28	DRAWING TITLE: <b>SECTION B - B</b>		REV. NO. : C						
		B	ISSUE FOR APPROED	M.HOSEINI	M.NOORI	M.NOORI	DANESHPOU	1404.03.12			SHEET:4 OF: 17						
	SUB CONTRACTOR DWG. NO.:	A	ISSUE FOR APPROED	M.HOSEINI	M.NOORI	M.NOORI	DANESHPOU	1404.01.25									
	MAPNA'S DWG. No. : MD1-BQ-15-SS-E-01-NY0-706	NIYAM'S LOGO	O	FIRST ISSUE	M.HOSEINI	M.NOORI	M.NOORI	DANESHPOU	1403.12.28	DESIGN STAGE :		FILE No.			FORMAT : A3		PROJECT : <b>SARI7 63/20KV AIS S/S</b>
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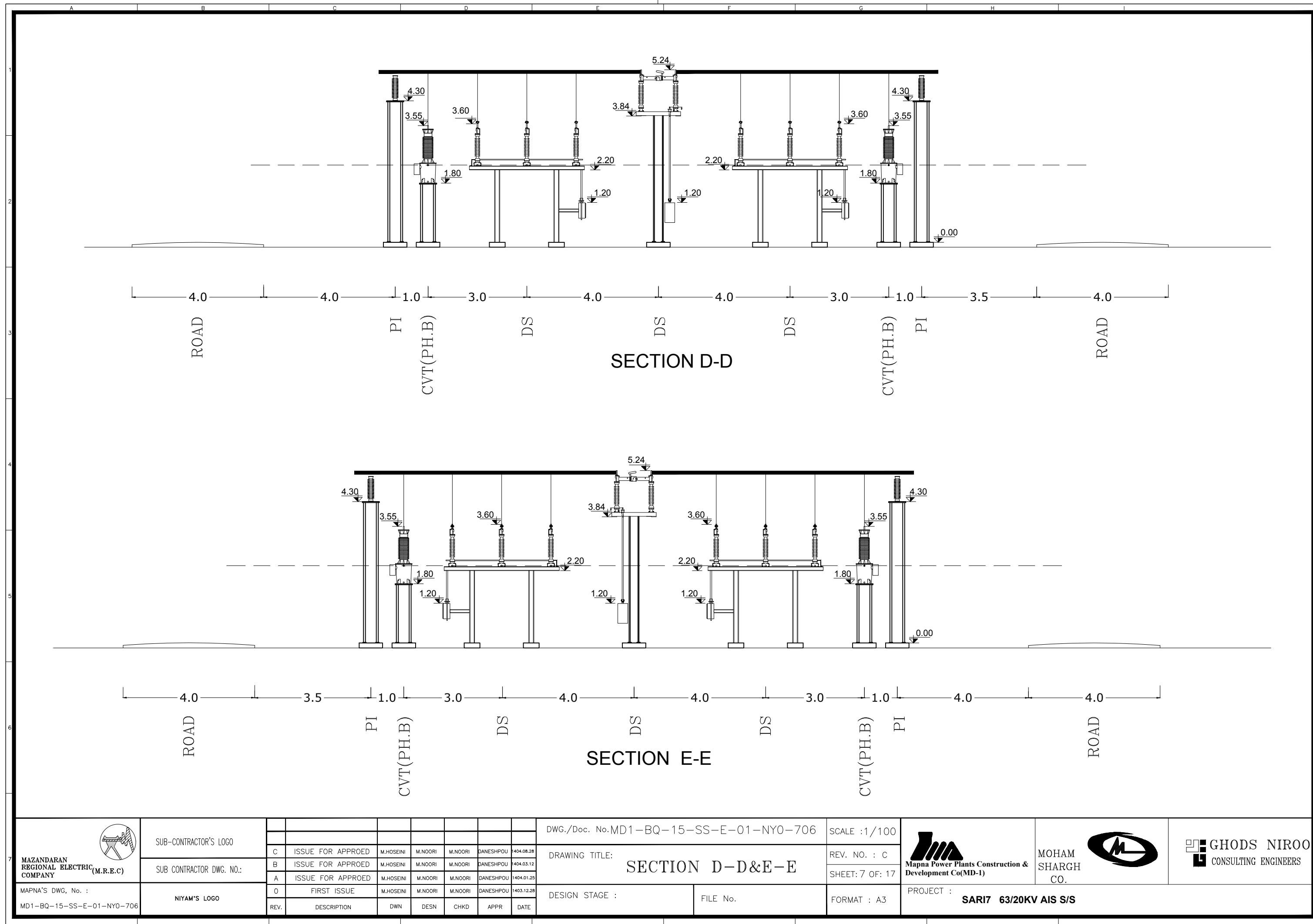
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SECTION C-C

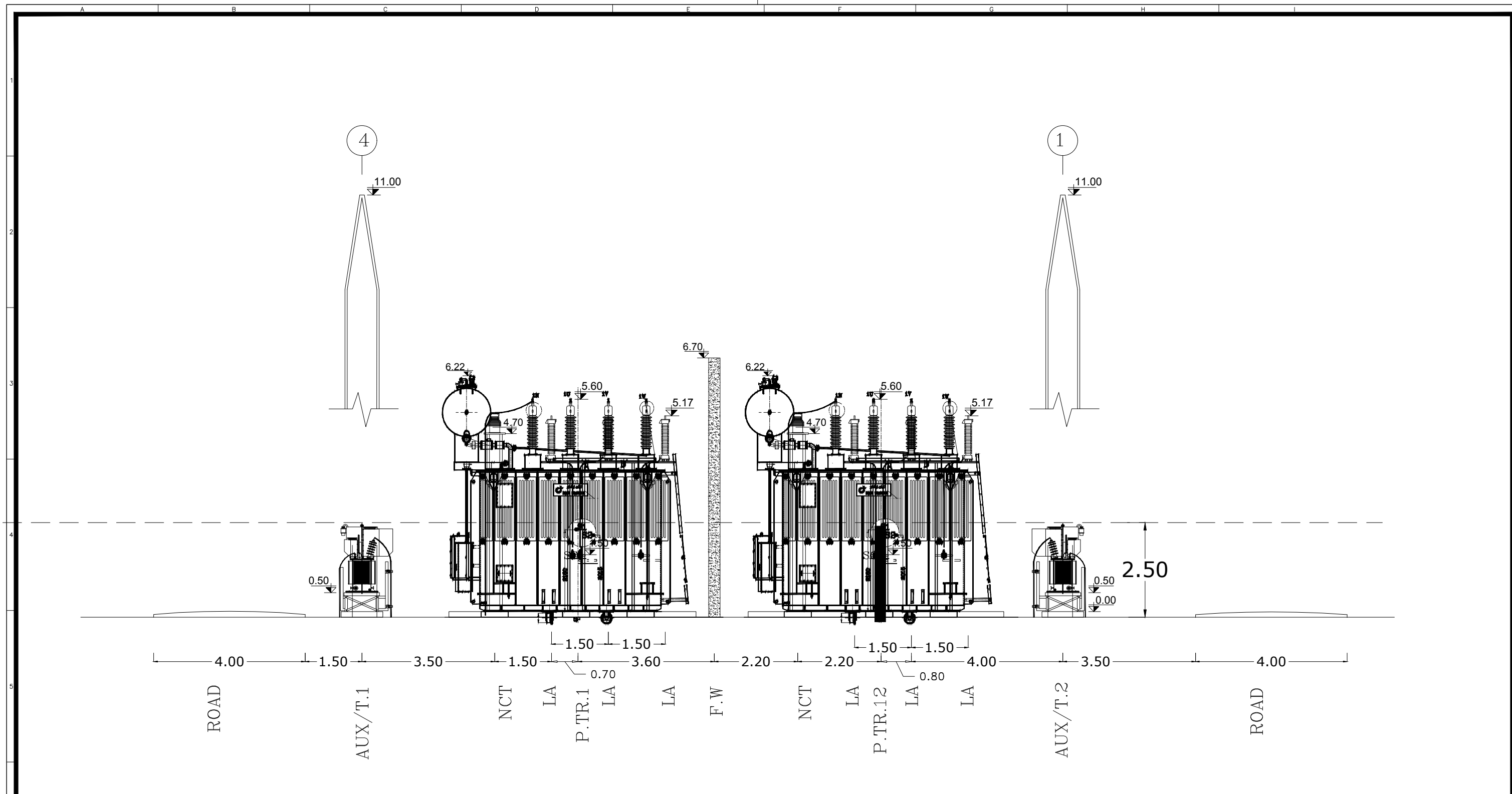
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		B	ISSUE FOR APPROED	M.HOSEINI	M.NOORI	M.NOORI	DANESHPOU	1404.03.12			SHEET:6 OF: 17			
	A	ISSUE FOR APPROED	M.HOSEINI	M.NOORI	M.NOORI	DANESHPOU	1404.01.25							
	SUB CONTRACTOR DWG. NO.:	O	FIRST ISSUE	M.HOSEINI	M.NOORI	M.NOORI	DANESHPOU	1403.12.28			DESIGN STAGE : FILE No.			
REV.		DESCRIPTION	DWN	DESN	CHKD	APPR	DATE							

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<div> MAZANDARAN REGIONAL ELECTRIC COMPANY (M.R.E.C)</div> <div>MAPNA'S DWG. No. : MD1-BQ-15-SS-E-01-NY0-706</div>	<div>SUB-CONTRACTOR'S LOGO</div> <div>SUB CONTRACTOR DWG. NO.:</div> <div>NIYAM'S LOGO</div>								DWG./Doc. No.MD1-BQ-15-SS-E-01-NY0-706	SCALE :1/100	<div> Mapna Power Plants Construction &amp; Development Co(MD-1)</div> <div>PROJECT : SARI7 63/20KV AIS S/S</div>	<div> MOHAM SHARGH CO.</div>	<div> GHODS NIROO CONSULTING ENGINEERS</div>
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		A	ISSUE FOR APPROED	M.HOSEINI	M.NOORI	M.NOORI	DANESHPOU	1404.01.25					
		O	FIRST ISSUE	M.HOSEINI	M.NOORI	M.NOORI	DANESHPOU	1403.12.28					
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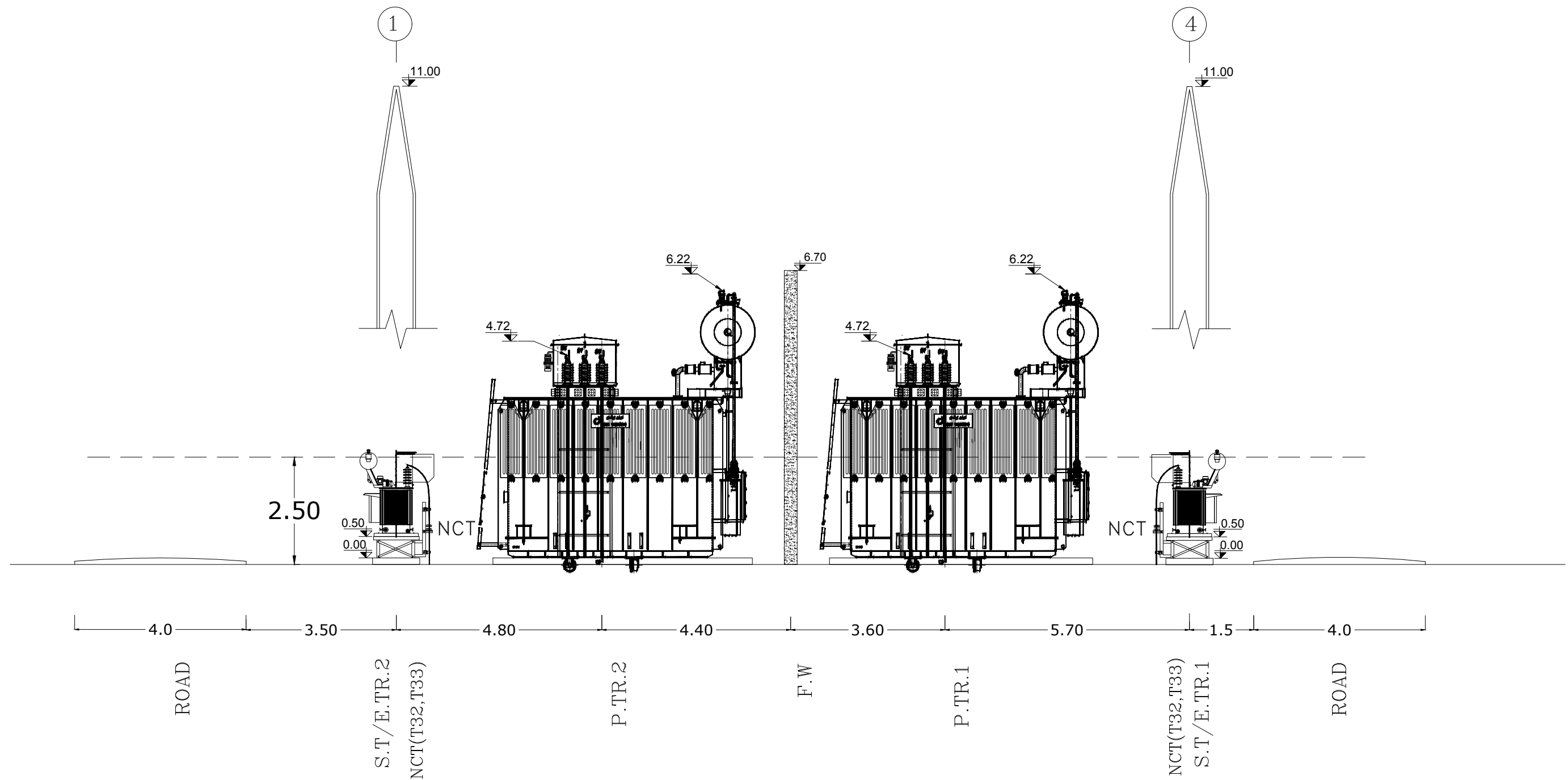
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SECTION F-F

<div><p>MAZANDARAN REGIONAL ELECTRIC COMPANY (M.R.E.C)</p></div> <div>MAPNA'S DWG. No. : MD1-BQ-15-SS-E-01-NY0-706</div>	SUB-CONTRACTOR'S LOGO								DWG./Doc. No.MD1-BQ-15-SS-E-01-NY0-706	SCALE :1/100	<div><p>Mapna Power Plants Construction &amp; Development Co(MD-1)</p></div> <div>MOHAM SHARGH CO.</div>	<div><p>GHODS NIROO CONSULTING ENGINEERS</p></div>
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		B	ISSUE FOR APPROED	M.HOSEINI	M.NOORI	M.NOORI	DANESHPOU	1404.03.12		SHEET: 8 OF: 17		
		A	ISSUE FOR APPROED	M.HOSEINI	M.NOORI	M.NOORI	DANESHPOU	1404.01.25				
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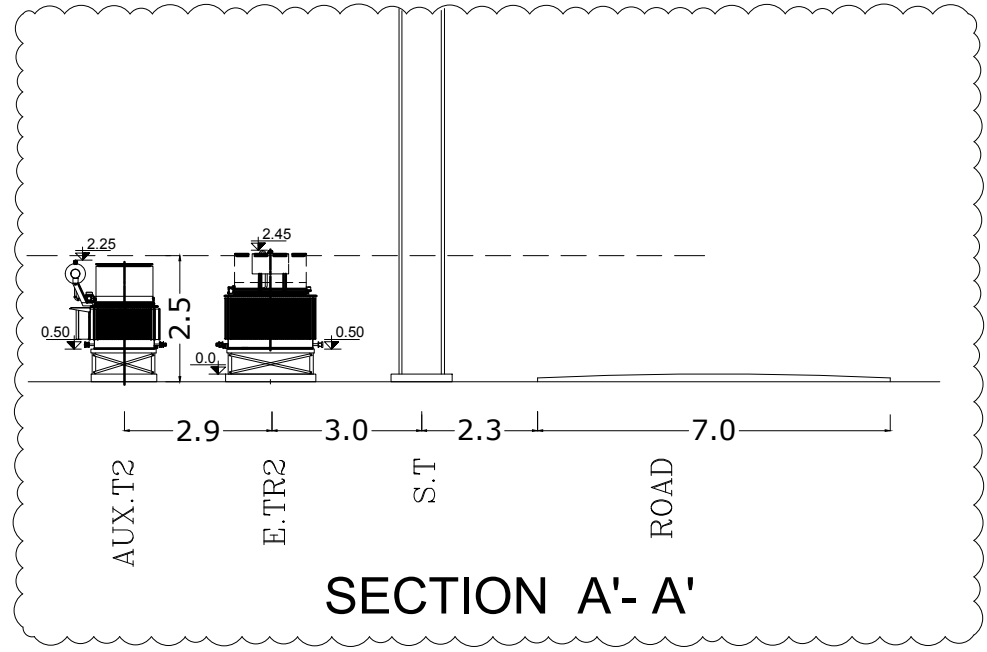
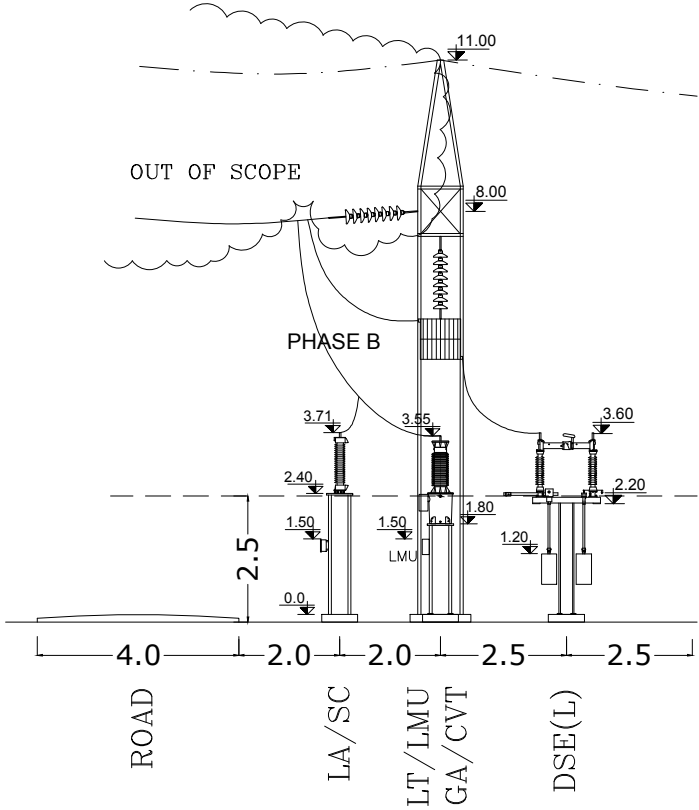
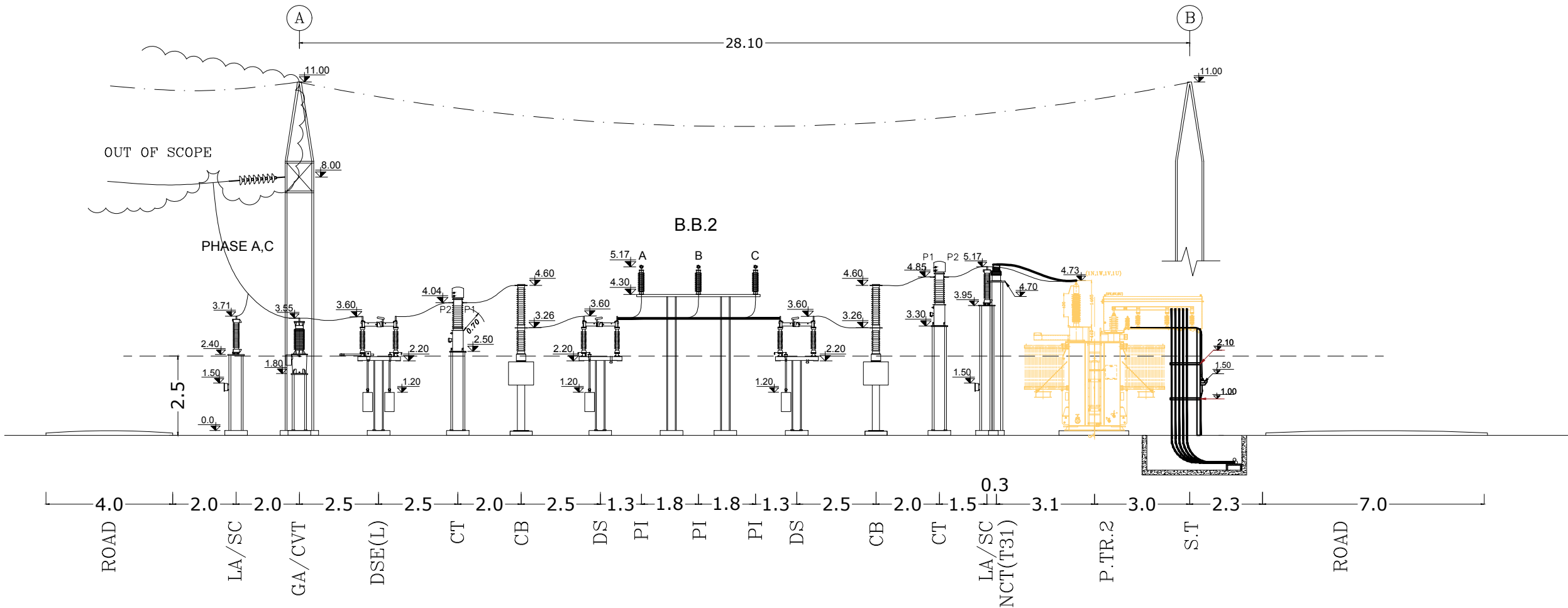
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SECTION G-G

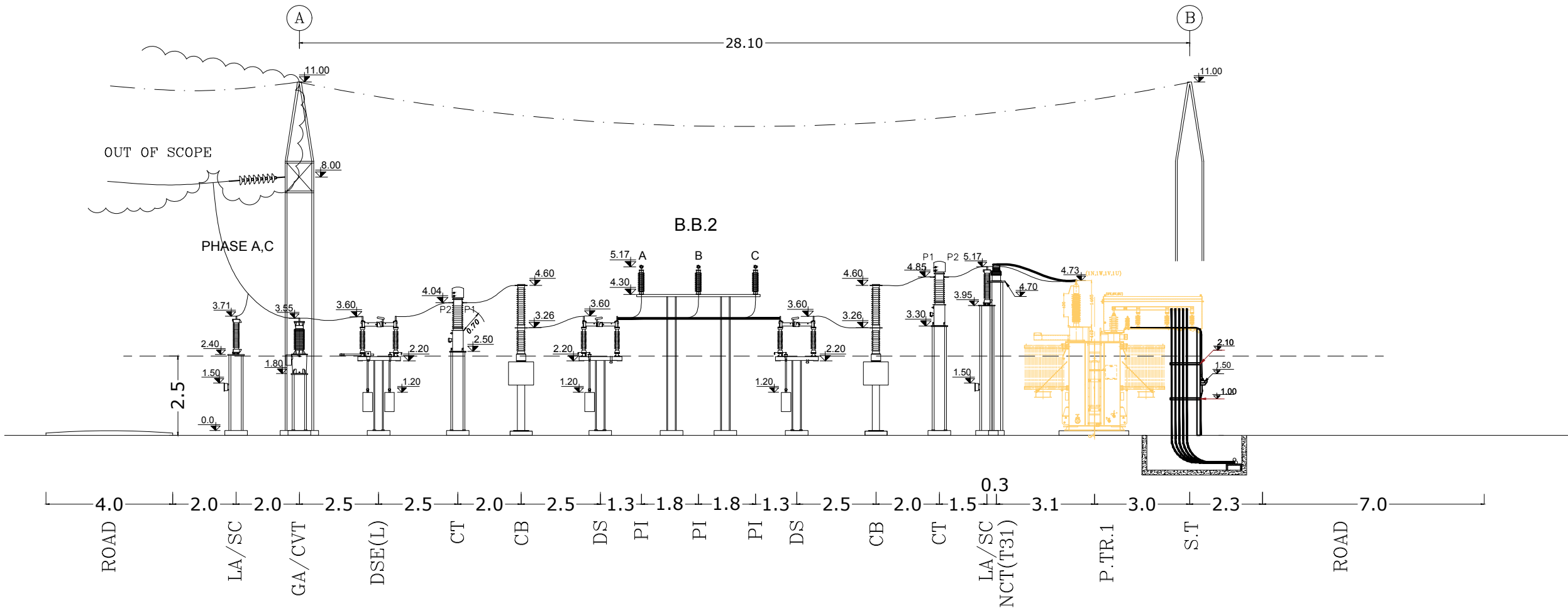
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		C	ISSUE FOR APPROED	M.HOSEINI	M.NOORI	M.NOORI	DANESHPOU	1404.08.28	DRAWING TITLE: <b>SECTION G-G</b>		REV. NO. : C				
		B	ISSUE FOR APPROED	M.HOSEINI	M.NOORI	M.NOORI	DANESHPOU	1404.03.12			SHEET:9 OF: 17				
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		O	FIRST ISSUE	M.HOSEINI	M.NOORI	M.NOORI	DANESHPOU	1403.12.28							
REV.		DESCRIPTION	DWN	DESN	CHKD	APPR	DATE								
MAPNA'S DWG. No. : MD1-BQ-15-SS-E-01-NY0-706	NIYAM'S LOGO										PROJECT : <b>SARI7 63/20KV AIS S/S</b>				

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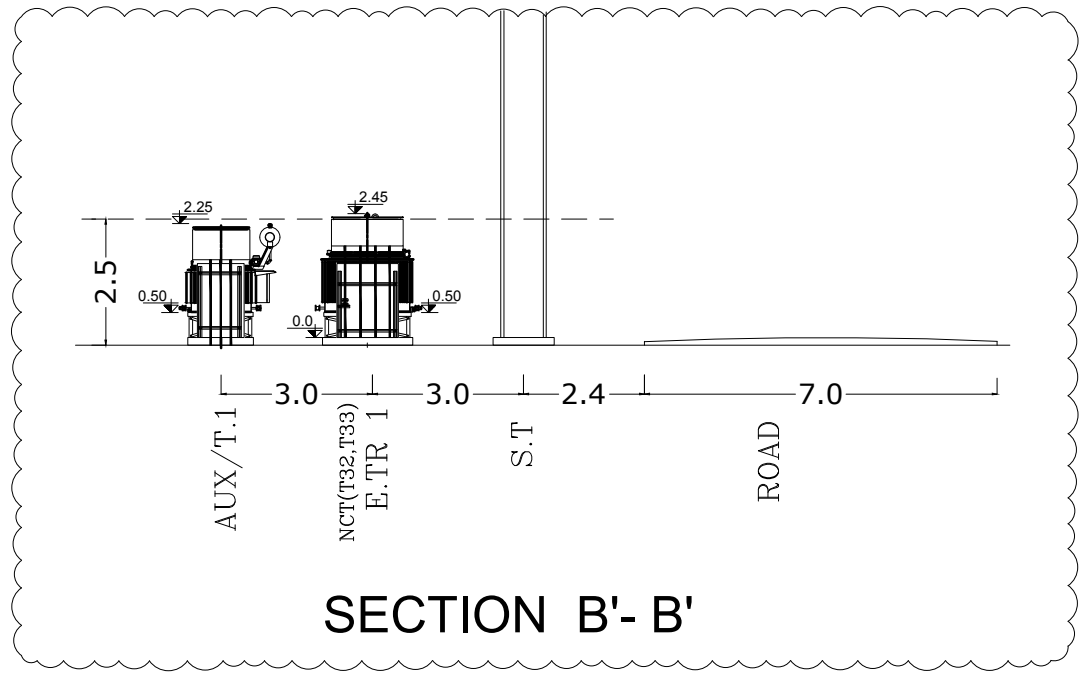


<div><p>MAZANDARAN REGIONAL ELECTRIC COMPANY (M.R.E.C.)</p></div>	SUB-CONTRACTOR'S LOGO								DWG./Doc. No.MD1-BQ-15-SS-E-01-NY0-706	SCALE :1/150	<div><p>Mapna Power Plants Construction &amp; Development Co(MD-1)</p></div>	<div><p>MOHAM SHARGH CO.</p></div>	<div><p>GHODS NIROO CONSULTING ENGINEERS</p></div>
		C	ISSUE FOR APPROED	M.HOSEINI	M.NOORI	M.NOORI	DANESHPOU	1404.08.28	DRAWING TITLE: <div>SECTION A-A</div>	REV. NO. : C			
		B	ISSUE FOR APPROED	M.HOSEINI	M.NOORI	M.NOORI	DANESHPOU	1404.03.12		SHEET10 OF: 17			
		A	ISSUE FOR APPROED	M.HOSEINI	M.NOORI	M.NOORI	DANESHPOU	1404.01.25					
	MAPNA'S DWG. No. : MD1-BQ-15-SS-E-01-NY0-706	NIYAM'S LOGO	0	FIRST ISSUE	M.HOSEINI	M.NOORI	M.NOORI	DANESHPOU		1403.12.28			
		REV.	DESCRIPTION	DWN	DESN	CHKD	APPR	DATE					




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SECTION B - B



SECTION B'- B'

<div><p>MAZANDARAN REGIONAL ELECTRIC COMPANY (M.R.E.C.)</p></div> <div>MAPNA'S DWG. No. : MD1-BQ-15-SS-E-01-NY0-706</div>	SUB-CONTRACTOR'S LOGO								DWG./Doc. No.MD1-BQ-15-SS-E-01-NY0-706	SCALE :1/150	<div><p>Mapna Power Plants Construction &amp; Development Co(MD-1)</p></div> <div>PROJECT : SARI7 63/20KV AIS S/S</div>	<div><p>MOHAM SHARGH CO.</p></div>	<div><p>GHODS NIROO CONSULTING ENGINEERS</p></div>
		SUB CONTRACTOR DWG. NO.:	C	ISSUE FOR APPROED	M.HOSEINI	M.NOORI	M.NOORI	DANESHPOU	1404.08.28	DRAWING TITLE: <b>SECTION B - B</b>			
	B		ISSUE FOR APPROED	M.HOSEINI	M.NOORI	M.NOORI	DANESHPOU	1404.03.12	SHEET:11 OF: 17				
	A		ISSUE FOR APPROED	M.HOSEINI	M.NOORI	M.NOORI	DANESHPOU	1404.01.25					
	NIYAM'S LOGO	O	FIRST ISSUE	M.HOSEINI	M.NOORI	M.NOORI	DANESHPOU	1403.12.28	DESIGN STAGE :	FILE No.			
REV.		DESCRIPTION	DWN	DESN	CHKD	APPR	DATE						



1

2

3

4

5

6

7

8.0 8.0

11.00 11.00

1.75 2.25 2.25 1.75 1.75 2.25 2.25 1.75

3.5 1.0 3.5 3.5 1.0 3.5

8.00 8.00

A B C A B C

11.00 8.00

2.50

1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80

3.55 3.55 3.55 3.55 3.55 3.55 3.55 3.55

0.00

4.0 4.0 2.5 1.5 1.5 2.5 2.5 1.5 1.5 2.5 3.5 4.0

ROAD GA CWT/LT LMU CWT GA CWT CWT/LT LMU CWT ROAD

SECTION C-C

REV.	DESCRIPTION	DWN	DESN	CHKD	APPR	DATE
C	ISSUE FOR APPROED	M.HOSEINI	M.NOORI	M.NOORI	DANESHPOU	1404.08.28
B	ISSUE FOR APPROED	M.HOSEINI	M.NOORI	M.NOORI	DANESHPOU	1404.03.12
A	ISSUE FOR APPROED	M.HOSEINI	M.NOORI	M.NOORI	DANESHPOU	1404.01.25
O	FIRST ISSUE	M.HOSEINI	M.NOORI	M.NOORI	DANESHPOU	1403.12.28

DWG./Doc. No.MD1-BQ-15-SS-E-01-NY0-706

SCALE :1/100

DRAWING TITLE: SECTION C-C

REV. NO. : C

SHEET 12 OF: 17

DESIGN STAGE :

FILE No.

FORMAT : A3

PROJECT : SARI7 63/20KV AIS S/S

MAZANDARAN REGIONAL ELECTRIC COMPANY (M.R.E.C)

SUB-CONTRACTOR'S LOGO

SUB CONTRACTOR DWG. NO.:





NIYAM'S LOGO

Mapna Power Plants Construction & Development Co(MD-1)

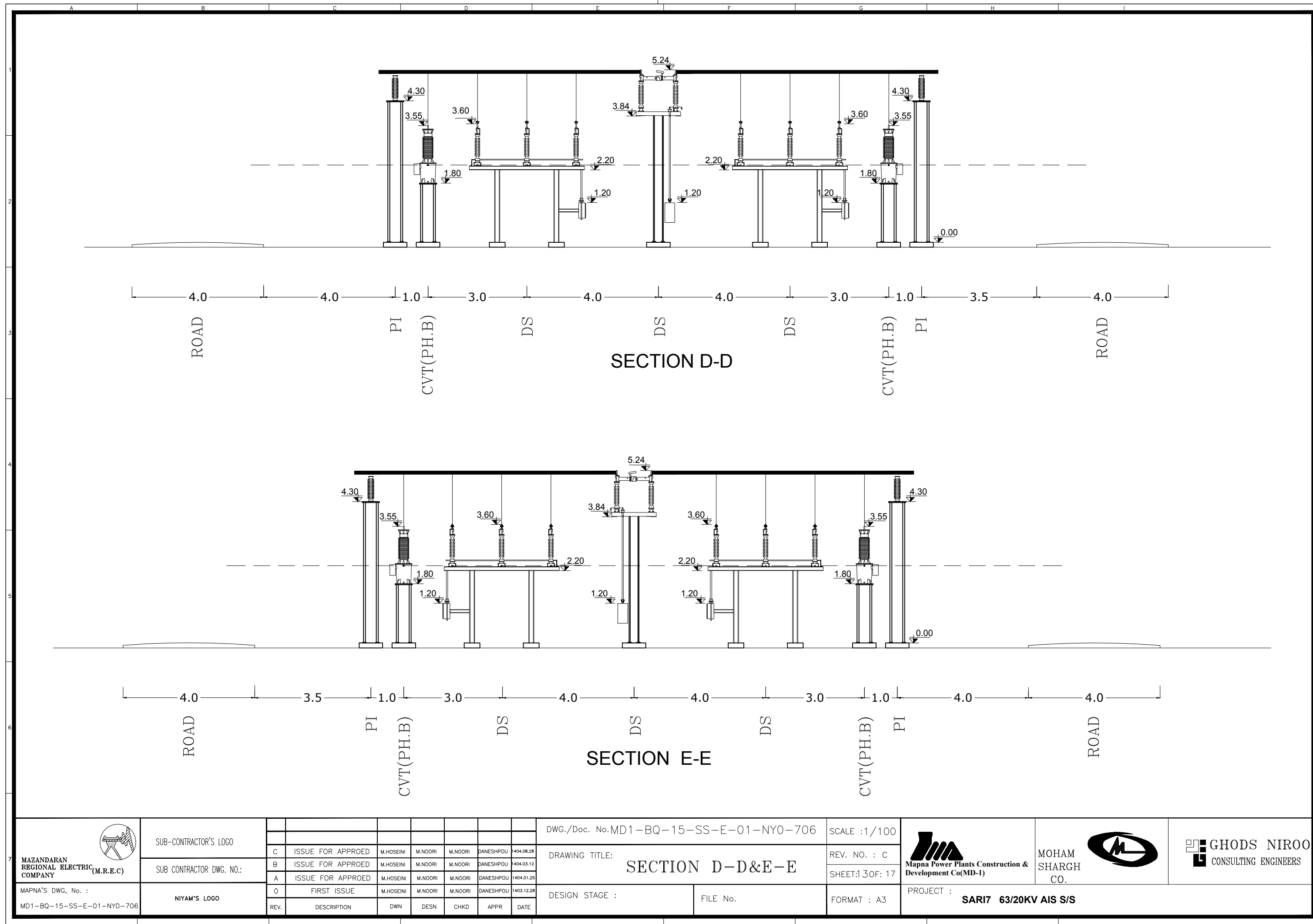
MOHAM SHARGH CO.





GHODS NIROO CONSULTING ENGINEERS

SECTION C-C

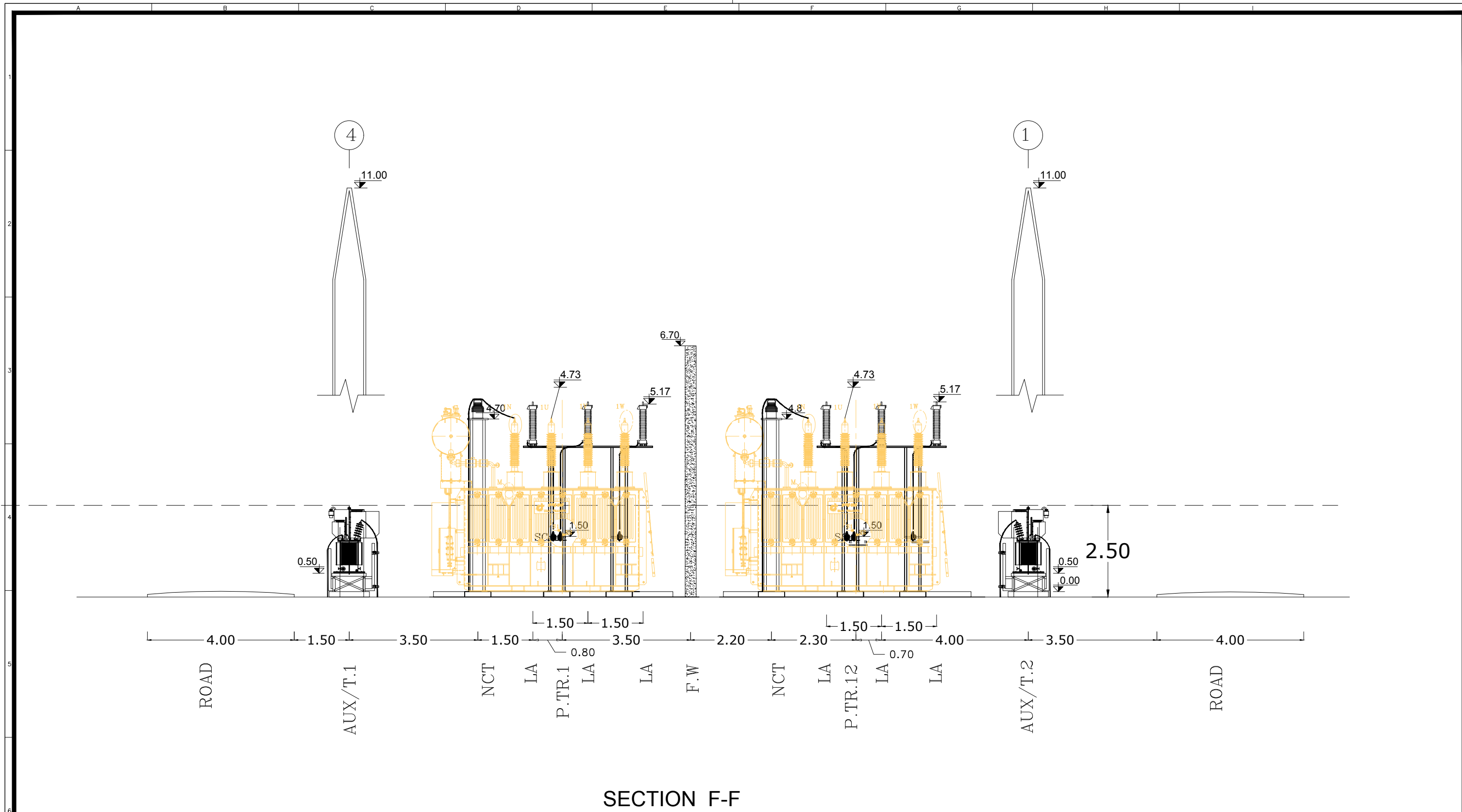
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	SUB CONTRACTOR DWG. NO.:	C	ISSUE FOR APPROED	M.HOSEINI	M.NOORI	M.NOORI	DANESHPOU	1404.08.28	DRAWING TITLE:  SECTION C-C	REV. NO. : C			
		B	ISSUE FOR APPROED	M.HOSEINI	M.NOORI	M.NOORI	DANESHPOU	1404.03.12		SHEET: 2 OF: 17			
		A	ISSUE FOR APPROED	M.HOSEINI	M.NOORI	M.NOORI	DANESHPOU	1404.01.25					
	MAPNA'S DWG. No. : MD1-BQ-15-SS-E-01-NYO-706	NIYAM'S LOGO	O	FIRST ISSUE	M.HOSEINI	M.NOORI	M.NOORI	DANESHPOU	1403.12.28	DESIGN STAGE :	FILE No.	FORMAT : A3	PROJECT : SARI7 63/20KV AIS S/S
	REV.	DESCRIPTION	DWN	DESN	CHKD	APPR	DATE						

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<div><p>MAZANDARAN REGIONAL ELECTRIC COMPANY (M.R.E.C)</p></div> <div>MAPNA'S DWG. No. : MD1-BQ-15-SS-E-01-NY0-706</div>	SUB-CONTRACTOR'S LOGO								DWG./Doc. No.MD1-BQ-15-SS-E-01-NY0-706		SCALE :1/100	<div><p>Mapna Power Plants Construction &amp; Development Co(MD-1)</p></div>	<div><p>MOHAM SHARGH CO.</p></div>	<div><p>GHODS NIROO CONSULTING ENGINEERS</p></div>	
		SUB CONTRACTOR DWG. NO.:	C	ISSUE FOR APPROED	M.HOSEINI	M.NOORI	M.NOORI	DANESHPOU	1404.08.28	DRAWING TITLE: <b>SECTION D-D&amp;E-E</b>					REV. NO. : C
			B	ISSUE FOR APPROED	M.HOSEINI	M.NOORI	M.NOORI	DANESHPOU	1404.03.12						SHEET:13 OF: 17
	A	ISSUE FOR APPROED	M.HOSEINI	M.NOORI	M.NOORI	DANESHPOU	1404.01.25								
	NIYAM'S LOGO	O	FIRST ISSUE	M.HOSEINI	M.NOORI	M.NOORI	DANESHPOU	1403.12.28	DESIGN STAGE :		FILE No.	FORMAT : A3			PROJECT : <b>SARI7 63/20KV AIS S/S</b>
REV.		DESCRIPTION	DWN	DESN	CHKD	APPR	DATE								

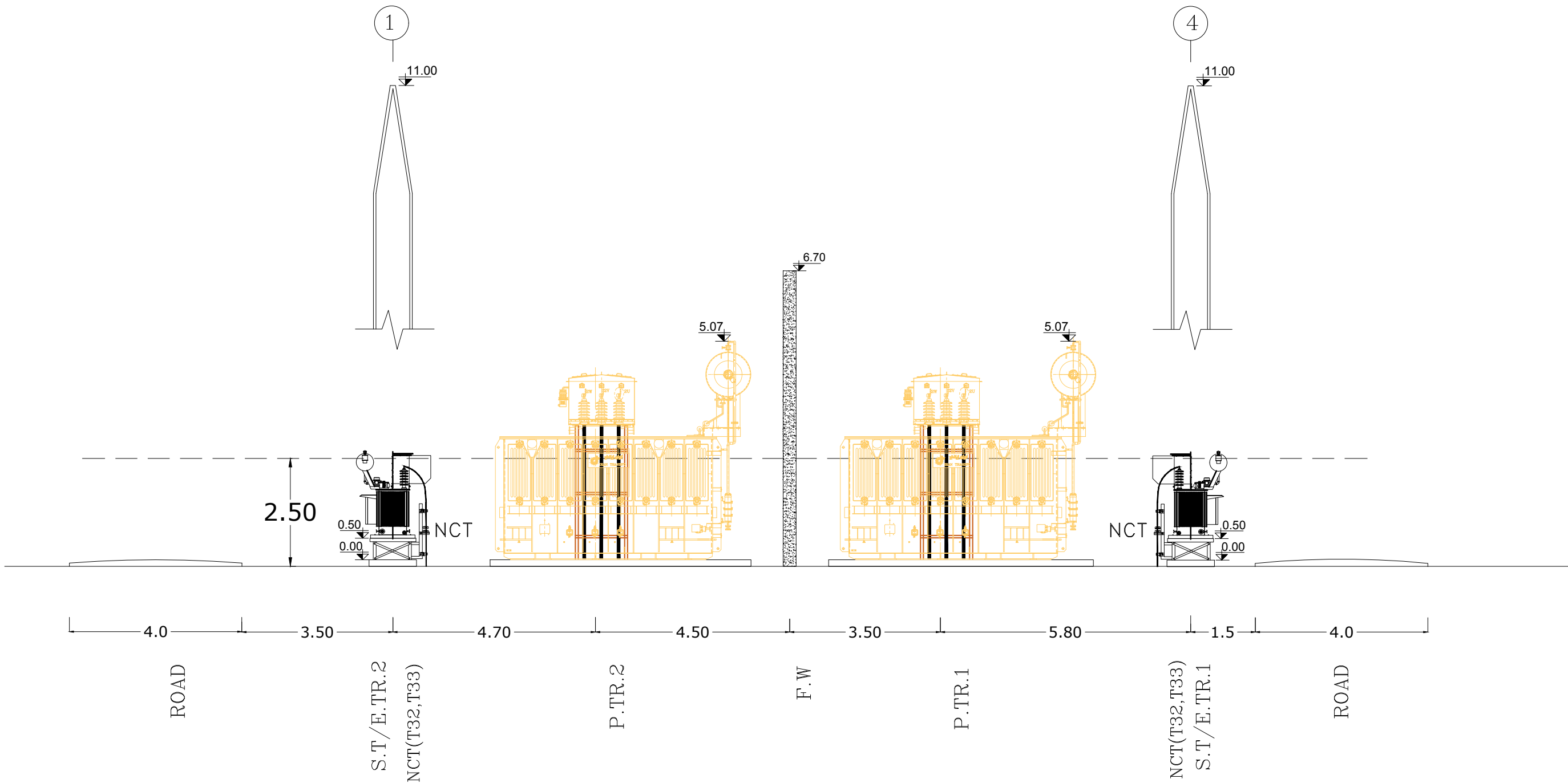
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SECTION F-F

<div><p>MAZANDARAN REGIONAL ELECTRIC COMPANY (M.R.E.C)</p></div> <div>MAPNA'S DWG. No. : MD1-BQ-15-SS-E-01-NY0-706</div>	SUB-CONTRACTOR'S LOGO							DWG./Doc. No.MD1-BQ-15-SS-E-01-NY0-706		SCALE :1/100		<div><p>Mapna Power Plants Construction &amp; Development Co(MD-1)</p></div> <div>MOHAM SHARGH CO.</div>	<div><p>GHODS NIROO CONSULTING ENGINEERS</p></div>				
		SUB CONTRACTOR DWG. NO.:	C	ISSUE FOR APPROED	M.HOSEINI	M.NOORI	M.NOORI	DANESHPOU	1404.08.28	DRAWING TITLE: <b>SECTION F-F</b>				REV. NO. : C			
			B	ISSUE FOR APPROED	M.HOSEINI	M.NOORI	M.NOORI	DANESHPOU	1404.03.12					SHEET:14 OF: 17			
	A	ISSUE FOR APPROED	M.HOSEINI	M.NOORI	M.NOORI	DANESHPOU	1404.01.25	DESIGN STAGE :						FILE No.		FORMAT : A3	
	NIYAM'S LOGO	O	FIRST ISSUE	M.HOSEINI	M.NOORI	M.NOORI	DANESHPOU	1403.12.28									
REV.		DESCRIPTION	DWN	DESN	CHKD	APPR	DATE										

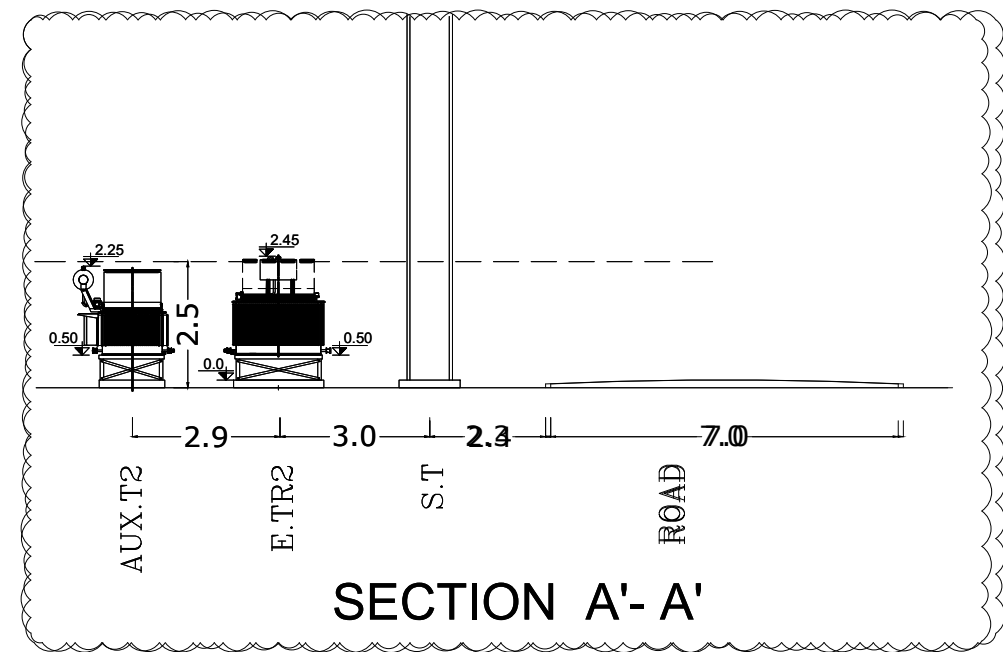
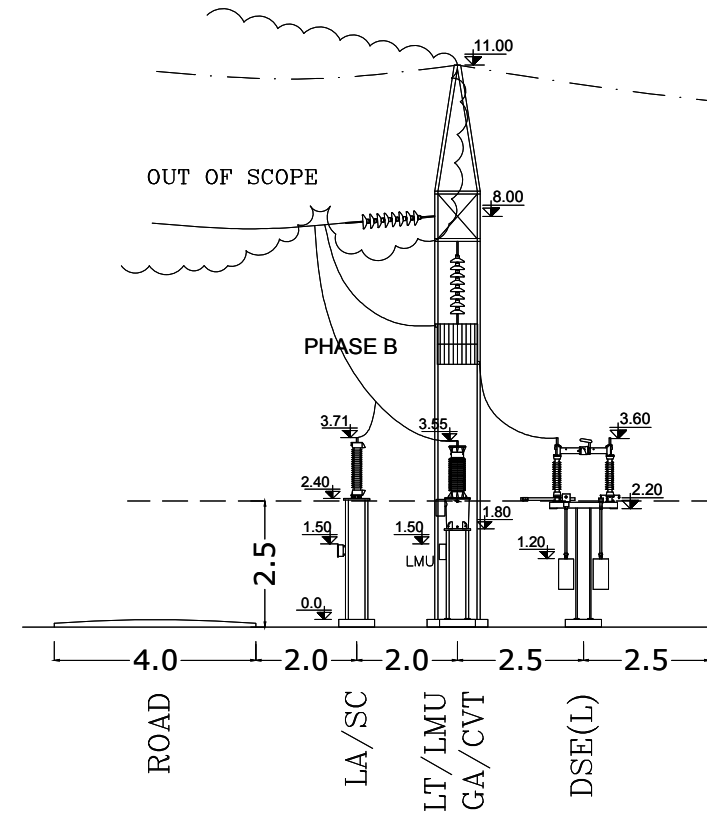
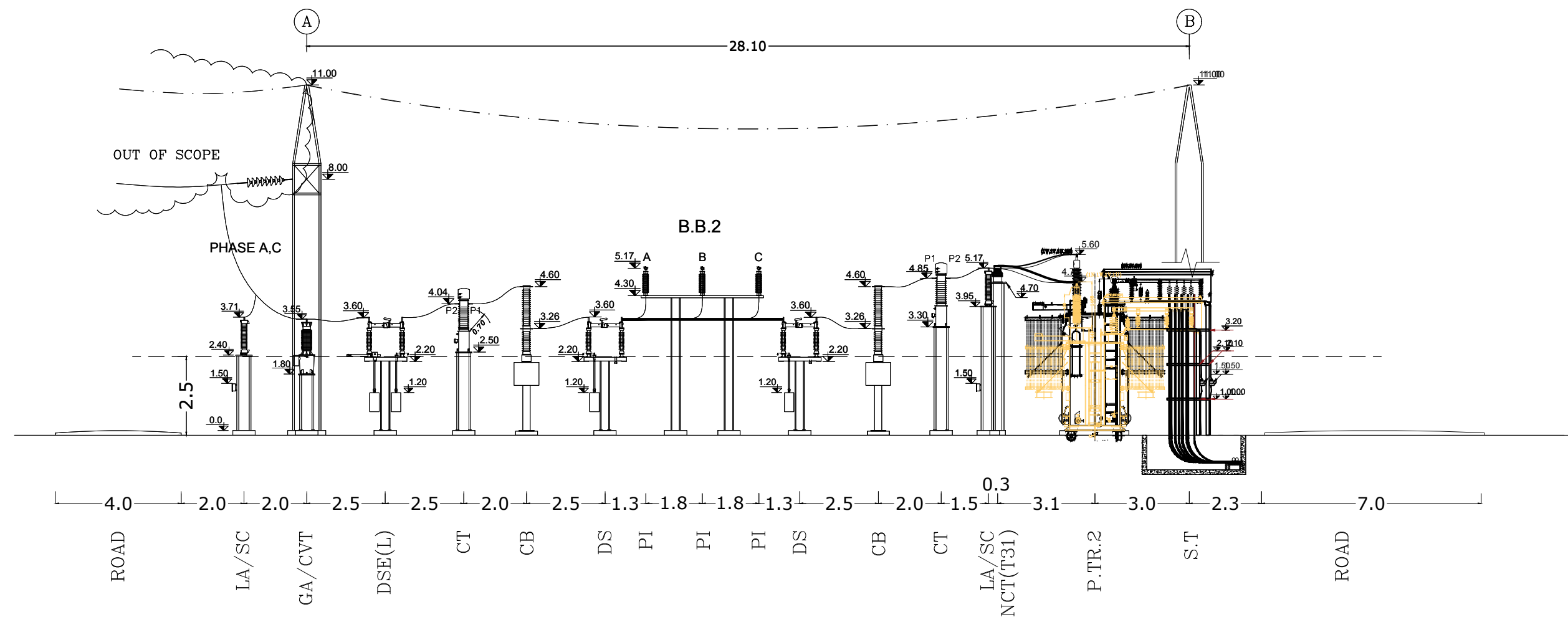
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SECTION G-G

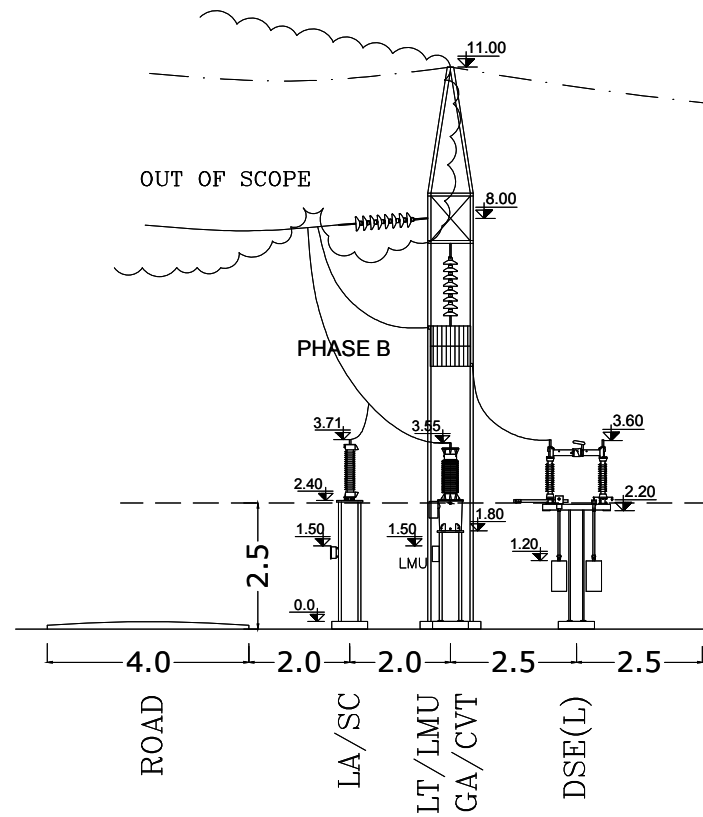
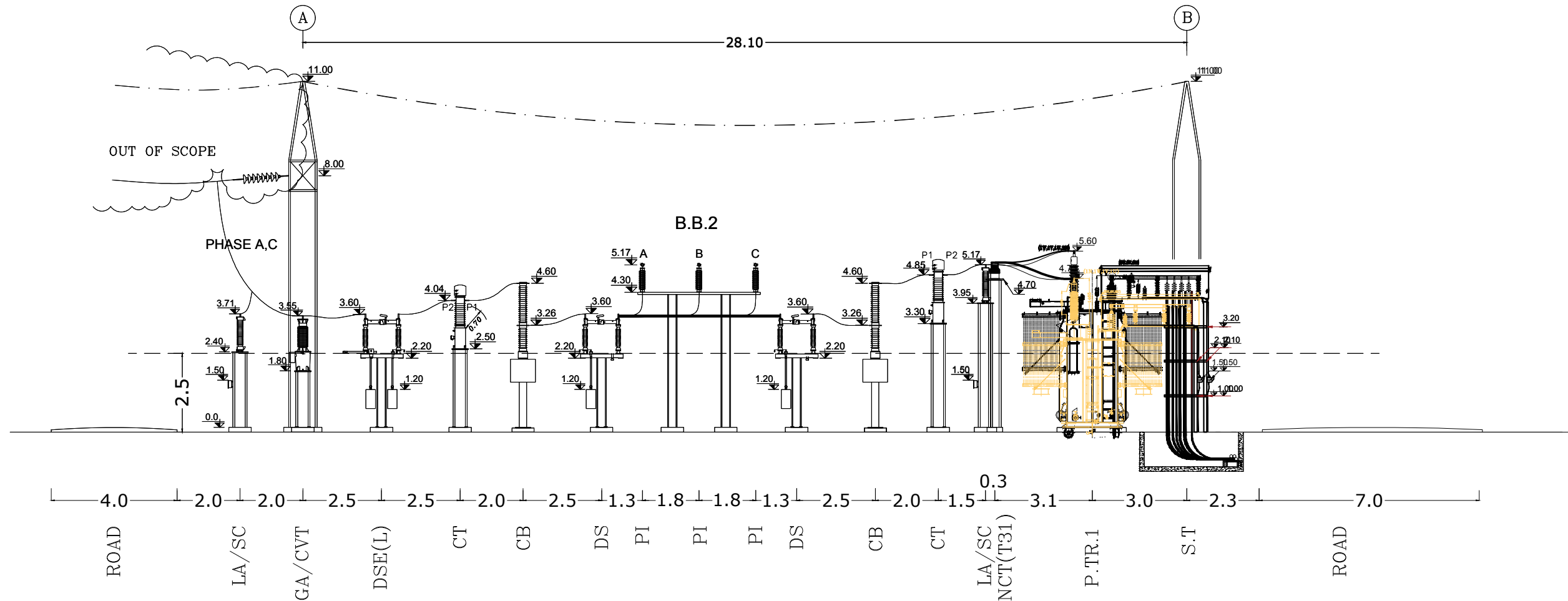
<div><p>MAZANDARAN REGIONAL ELECTRIC COMPANY (M.R.E.C)</p></div> <div>MAPNA'S DWG. No. : MD1-BQ-15-SS-E-01-NY0-706</div>	SUB-CONTRACTOR'S LOGO							DWG./Doc. No.MD1-BQ-15-SS-E-01-NY0-706		SCALE :1/100		<div><p>Mapna Power Plants Construction &amp; Development Co(MD-1)</p></div>	<div><p>MOHAM SHARGH CO.</p></div>	<div><p>GHODS NIROO CONSULTING ENGINEERS</p></div>		
		SUB CONTRACTOR DWG. NO.:	C	ISSUE FOR APPROED	M.HOSEINI	M.NOORI	M.NOORI	DANESHPOU	1404.08.28	DRAWING TITLE: <b>SECTION G-G</b>					REV. NO. : C	
			B	ISSUE FOR APPROED	M.HOSEINI	M.NOORI	M.NOORI	DANESHPOU	1404.03.12						SHEET:15 OF: 17	
	A	ISSUE FOR APPROED	M.HOSEINI	M.NOORI	M.NOORI	DANESHPOU	1404.01.25	DESIGN STAGE :				FILE No.	FORMAT : A3		PROJECT : <b>SARI7 63/20KV AIS S/S</b>	
	O	FIRST ISSUE	M.HOSEINI	M.NOORI	M.NOORI	DANESHPOU	1403.12.28									
	REV.	DESCRIPTION	DWN	DESN	CHKD	APPR	DATE									

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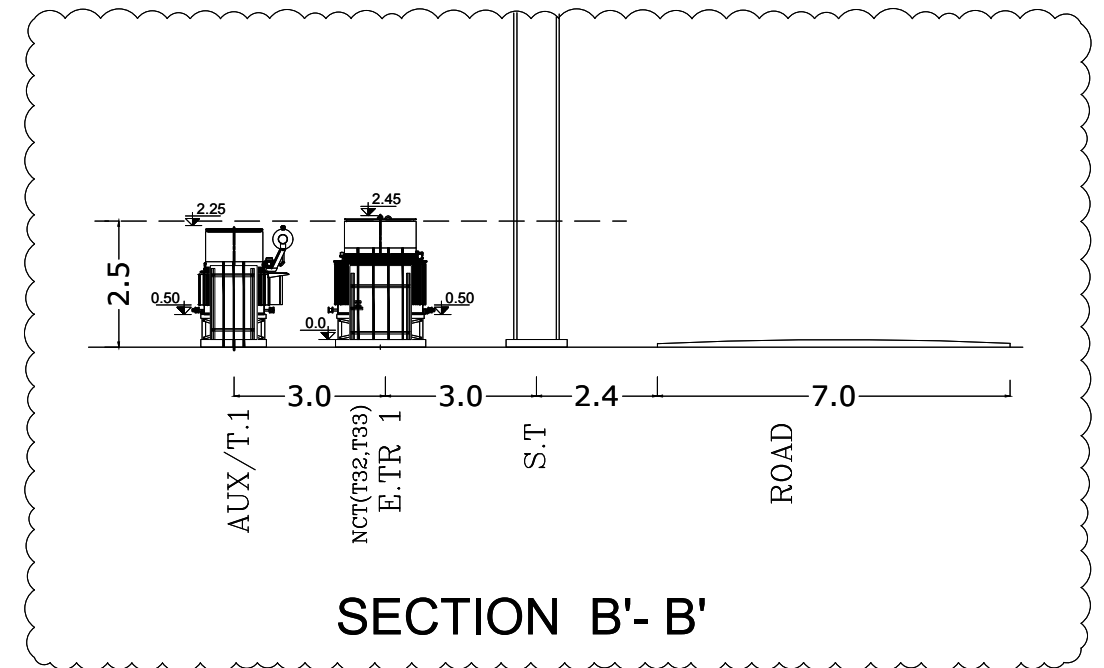


<div><p>MAZANDARAN REGIONAL ELECTRIC COMPANY (M.R.E.C.)</p></div>	SUB-CONTRACTOR'S LOGO								DWG./Doc. No.MD1-BQ-15-SS-E-01-NY0-706	SCALE :1/150	<div><p>Mapna Power Plants Construction &amp; Development Co(MD-1)</p></div>	<div><p>MOHAM SHARGH CO.</p></div>	<div><p>GHODS NIROO CONSULTING ENGINEERS</p></div>
		SUB CONTRACTOR DWG. NO.:	C	ISSUE FOR APPROED	M.HOSEINI	M.NOORI	M.NOORI	DANESHPOU	1404.08.28	DRAWING TITLE:  SECTION A-A			
	B		ISSUE FOR APPROED	M.HOSEINI	M.NOORI	M.NOORI	DANESHPOU	1404.03.12	SHEET 6 OF 17				
	A		ISSUE FOR APPROED	M.HOSEINI	M.NOORI	M.NOORI	DANESHPOU	1404.01.25					
	MAPNA'S DWG. No. : MD1-BQ-15-SS-E-01-NY0-706	NIYAM'S LOGO	O	FIRST ISSUE	M.HOSEINI	M.NOORI	M.NOORI	DANESHPOU	1403.12.28	DESIGN STAGE :			
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

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SECTION B - B



SECTION B'- B'

<div><p>MAZANDARAN REGIONAL ELECTRIC COMPANY (M.R.E.C.)</p></div>	SUB-CONTRACTOR'S LOGO								DWG./Doc. No.MD1-BQ-15-SS-E-01-NY0-706		SCALE :1/150		<div><p>Mapna Power Plants Construction &amp; Development Co(MD-1)</p></div>	<div><p>MOHAM SHARGH CO.</p></div>	<div><p>GHODS NIROO CONSULTING ENGINEERS</p></div>
		SUB CONTRACTOR DWG. NO.:	C	ISSUE FOR APPROED	M.HOSEINI	M.NOORI	M.NOORI	DANESHPOU	1404.08.28	DRAWING TITLE: <b>SECTION B - B</b>		REV. NO. : C			
	B		ISSUE FOR APPROED	M.HOSEINI	M.NOORI	M.NOORI	DANESHPOU	1404.03.12	SHEET: 7 OF: 17						
	A		ISSUE FOR APPROED	M.HOSEINI	M.NOORI	M.NOORI	DANESHPOU	1404.01.25	FORMAT : A3						
	MAPNA'S DWG. No. : MD1-BQ-15-SS-E-01-NY0-706	NIYAM'S LOGO	O	FIRST ISSUE	M.HOSEINI	M.NOORI	M.NOORI	DANESHPOU	1403.12.28	DESIGN STAGE :		FILE No.			
REV.	DESCRIPTION		DWN	DESN	CHKD	APPR	DATE								