
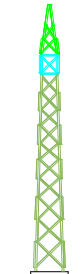

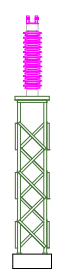
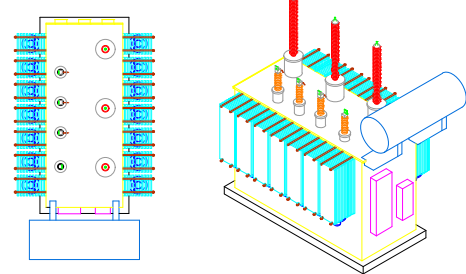


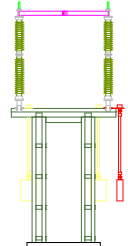


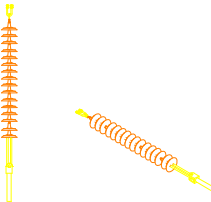

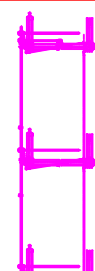
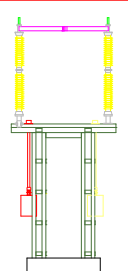

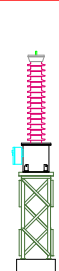


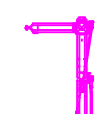
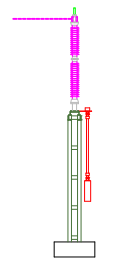

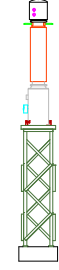
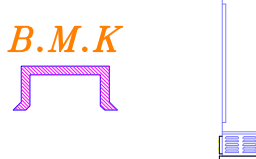

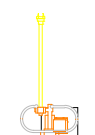
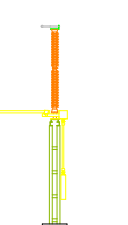
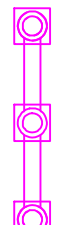
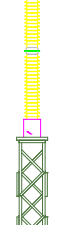



COVER

COVER

LEGEND

		GANTRY TOWER			POST INSULATOR		POWER TRANSFORMER 132/33kV		ROAD
		DISCONNECTING SWITCH MOTOR OPERATED WITH TWO EARTH SWITCH			LIGHTNING ARRESTER		STRING INSULATOR		STRANDED CONDUCTOR
		DISCONNECTING SWITCH MOTOR OPERATED WITH ONE EARTH SWITCH			CAPACITIVE VOLTAGE TRANSFORMER		EARTH MAT		SHIELD WIRE
		DISCONNECTING SWITCH MOTOR OPERATED			CURRENT TRANSFORMER		BAY MARSHALLING KIOSK		CHAIN-LINK FENCE
		EARTH SWITCH MOTOR OPERATED			CIRCUIT BREAKER MOTOR OPERATED		CABLE TRENCH		

MINIMUM AIR CLEARANCES

MINIMUM AIR CLEARANCES	132kV
RATED LIGHTNING IMPULSE WITHSTAND VOLTAGE	650 KV
RATED SWITCHING IMPULSE WITHSTAND VOLTAGE (PHASE-EARTH)	—
RATED SWITCHING IMPULSE WITHSTAND VOLTAGE (PHASE-PHASE)	—
BASIC VALUE (NON-FLASHOVER DISTANCE, INCLUDING SAFETY-MARGIN)	1.52m +10%
MINIMUM CLEARANCE BETWEEN LOWEST LIVE PART AND GROUND (TOTAL SAFETY ZONE)	3.77m
CLEARANCE BETWEEN GROUND AND THE INSULATOR'S BASE	2.5m
VERTICAL CLEARANCE WORKING ZONE	3m
HORIZONTAL CLEARANCE WORKING ZONE	3.27m
CLEARANCE OF CONDUCTORS ABOVE THE MAIN ROADS	8.5m
PHASE SPACING OF RIGID BUSBAR (CENTER LINE TO CENTER LINE)	2.5m
PHASE SPACING OF OVERSPAN (CENTER LINE TO CENTER LINE)	3.5m
PHASE SPACING OF FLEXIBLE CONDUCTOR BETWEEN EQUIPMENT (CENTER LINE TO CENTER LINE)	3.5m
POWER FREQUENCY WITHSTAND VOLTAGE	275kV
VERTICAL CLEARANCE BETWEEN LIVE CONDUCTOR AND SHIELD	3m



ABBREVIATION

ABBR.	EQUIPMENT
CB	CIRCUIT BREAKER
CT	CURRENT TRANSFORMER
CVT	CAPACITIVE VOLTAGE TRANSFORMER
DS	DISCONNECTING SWITCH
DSE	DISCONNECTING SWITCH WITH EARTHING SWITCH
EM	EARTH MAT
ES	EARTH SWITCH
GA	GANTRY TOWER
LA	LIGHTNING ARRESTER
BMK	BAY MARSHALLING KIOSK
PI	POST INSULATOR
SC	SURGE COUNTER
SI	STRING INSULATOR
TW	TOWER



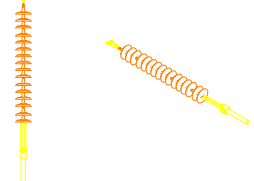

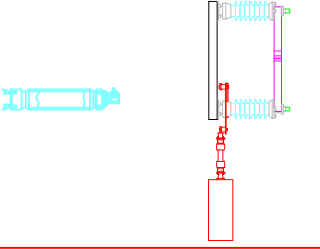




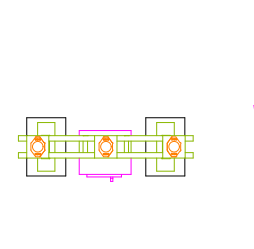




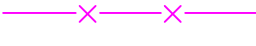

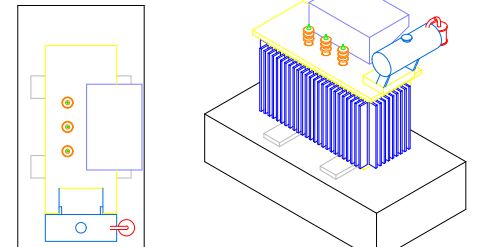
NOTE:

- 1- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
- 2- 132KV SWITCHYARD LAYOUT PLAN & SECTION ARE TYPICAL REPRESENTATION & PRELIMINARY.
- 3- ALL CLEARANCES ARE AS PER IEC GUIDELINES.
- 4- LOCATION OF MARSHALLING BOX SHOWN IN DRAWING ARE TENTATIVE AND SHALL BE SUITABLY LOCATED CONSIDERING ACTUAL SITE CONDITION.
- 5- ALL THE EQUIPMENT & BUSES IN THE SOW WILL BE PROTECTED FROM LIGHTNING STRIKE BY MEANS OF SHIELD WIRE.
- 6- DISCONNECTOR SWITCH WILL HAVE MECHANICAL AND ELECTRICAL INTERLOCK WITH THE RELEVANT EARTH SWITCH.
- 7- ELECTRICAL INTERLOCK WILL BE PROVIDED BETWEEN DISCONNECTORS & CIRCUIT BREAKER SUCH THAT DISCONNECTOR WILL BE OPEN AND CLOSED WHEN RESPECTIVE CIRCUIT BREAKER IS IN OFF POSITION.
- 8- THIS IS CONCEPTUAL DRAWING FOR TENDER PURPOSE. HOWEVER IT IS MANDATORY TO FOLLOW THE REQUIREMENT OF KETRACO STANDARD.
- 9- ALL CABLE TRENCHES' SIZES AND ROUTES ARE TENTATIVE AND SUBJECTED TO CABLE TRENCH LAYOUT & DETAIL DOCUMENT AND CLIENT/ CONSULTANT'S APPROVAL.
- 10- CONTRACTOR SHALL VISIT THE SITE AND REQUIRED MODIFICATIONS/ DEMOLITIONS ARE IN THE CONTRACTOR'S RESPONSIBILITY.
- 11- CONTRACTOR SHALL VISIT THE SITE TO ENSURE THAT SUFFICIENT SPACE IS AVAILABLE FOR EXISTING CABLE TRENCHES TO IMPLEMENT NEW CABLES
- 12- ALL CLEARANCES WILL BE FINALIZED AFTER APPROVAL OF INSULATION COORDINATION DOCUMENT IN EPC DETAIL DESIGN STAGE.
- 13- CONSIDERING THE SIGNIFICANT LEVEL DIFFERENCE BETWEEN THE EDGE/ FENCE TO BE DEMOLISHED AND THE COVERING THE NEW SCOPE, THE CONTRACTOR SHALL SELF-APPRAISE ON THIS ASPECT WHICH MAY INFLUENCE DESIGN DECISION ON BUSBAR EXTENSION, EARTHWORKS AND DRAINAGE WORKS.
- 14- THE CONTRACTOR SHOULD STUDY FOUNDATION DRAWINGS/ SITE CONDITION CAREFULLY BEFORE FIRING UP ON THE FOUNDATION DESIGN CONSIDERING THE 200mm. THICK CONCRETE RAFT FOUNDATION OVER THE ENTIRE SUBSTATION SWITCHYARD.
- 15- WHEREVER THE CABLE TRENCH CROSSES THE ROAD, AN UNDER ROAD CONCRETE CABLE DUCT SHALL BE CONSIDERED IN GENERAL LAYOUT, TOGETHER WITH PROVIDING THE ELABORATE DESIGN DURING EPC DETAIL DESIGN STAGE.
- 16- THE LIGHTNING PROTECTION IS INDICATIVE ONLY AND THE CONTRACTOR SHALL PROVIDE CALCULATIONS.
- 17- THE LIGHTNING AND POWER FREQUENCY WITHSTAND VOLTAGE WILL BE GUIDED BY AN INSULATION COORDINATION STUDY IN ACCORDANCE TO IEC.

GENERAL NOTES & LEGENDS OF 132KV EQUIPMENT

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DATE:.....		SIGNATURE/STAMP:.....PROJECT CONSULTANT.....	
		KENYA ELECTRICITY TRANSMISSION COMPANY LTD	
		COLENCO CONSULTING LIMITED	
PROJECT: KENYA TRANSMISSION NETWORK IMPROVEMENT PROJECT (KTRNIP).			
PROJECT DRAWING NO.:			
NAME:		DATE:	
PREPARED: NIL		PROJECT NO:	
DRAWN: F.J		14/05/2025	
CHECKED: V.JOSHI		14/05/2025	
APPROVED: S.DESHMUKH		14/05/2025	
RUMURUTI 132/33kV SUBSTATION			
TITLE: GENERAL NOTES & LEGENDS OF 132KV EQUIPMENT			
REVISIONS			
NO.		NAME DATE	
SCALE: 1:600		DWG NO.	
		REV.:	

LEGEND

	GANTRY TOWER		VOLTAGE TRANSFORMER		STRING INSULATOR		ROAD
	DISCONNECTING SWITCH MOTOR OPERATED WITH ONE EARTH SWITCH MOTOR OPERATED		CURRENT TRANSFORMER		BAY MARSHALLING KIOSK		STRANDED CONDUCTOR
	DISCONNECTING SWITCH MOTOR OPERATED		CIRCUIT BREAKER MOTOR OPERATED		CABLE TRENCH		SHIELD WIRE
	POST INSULATOR		CUTOFF FUSE				CHAIN-LINK FENCE
	LIGHTNING ARRESTER		AUXILIARY TRANSFORMER				

MINIMUM AIR CLEARANCES

MINIMUM AIR CLEARANCES	33kV
RATED LIGHTNING IMPULSE WITHSTAND VOLTAGE	170 KV
RATED SWITCHING IMPULSE WITHSTAND VOLTAGE (PHASE-EARTH)	—
RATED SWITCHING IMPULSE WITHSTAND VOLTAGE (PHASE-PHASE)	—
BASIC VALUE (NON-FLASHOVER DISTANCE, INCLUDING SAFETY-MARGIN)	0.32m +10%
MINIMUM CLEARANCE BETWEEN LOWEST LIVE PART AND GROUND (TOTAL SAFETY ZONE)	3m
CLEARANCE BETWEEN GROUND AND THE INSULATOR'S BASE	2.5m
VERTICAL CLEARANCE WORKING ZONE	3m
HORIZONTAL CLEARANCE WORKING ZONE	3m
CLEARANCE OF CONDUCTORS ABOVE THE MAIN ROADS	7.5m
PHASE SPACING OF RIGID BUSBAR (CENTER LINE TO CENTER LINE)	1m
PHASE SPACING OF OVERSPAN (CENTER LINE TO CENTER LINE)	1m
PHASE SPACING OF FLEXIBLE CONDUCTOR BETWEEN EQUIPMENT (CENTER LINE TO CENTER LINE)	1m
POWER FREQUENCY WITHSTAND VOLTAGE	70kV
VERTICAL CLEARANCE BETWEEN LIVE CONDUCTOR AND SHIELD	2m



ABBREVIATION

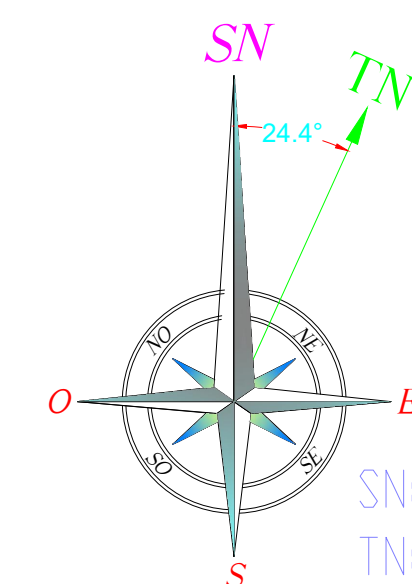
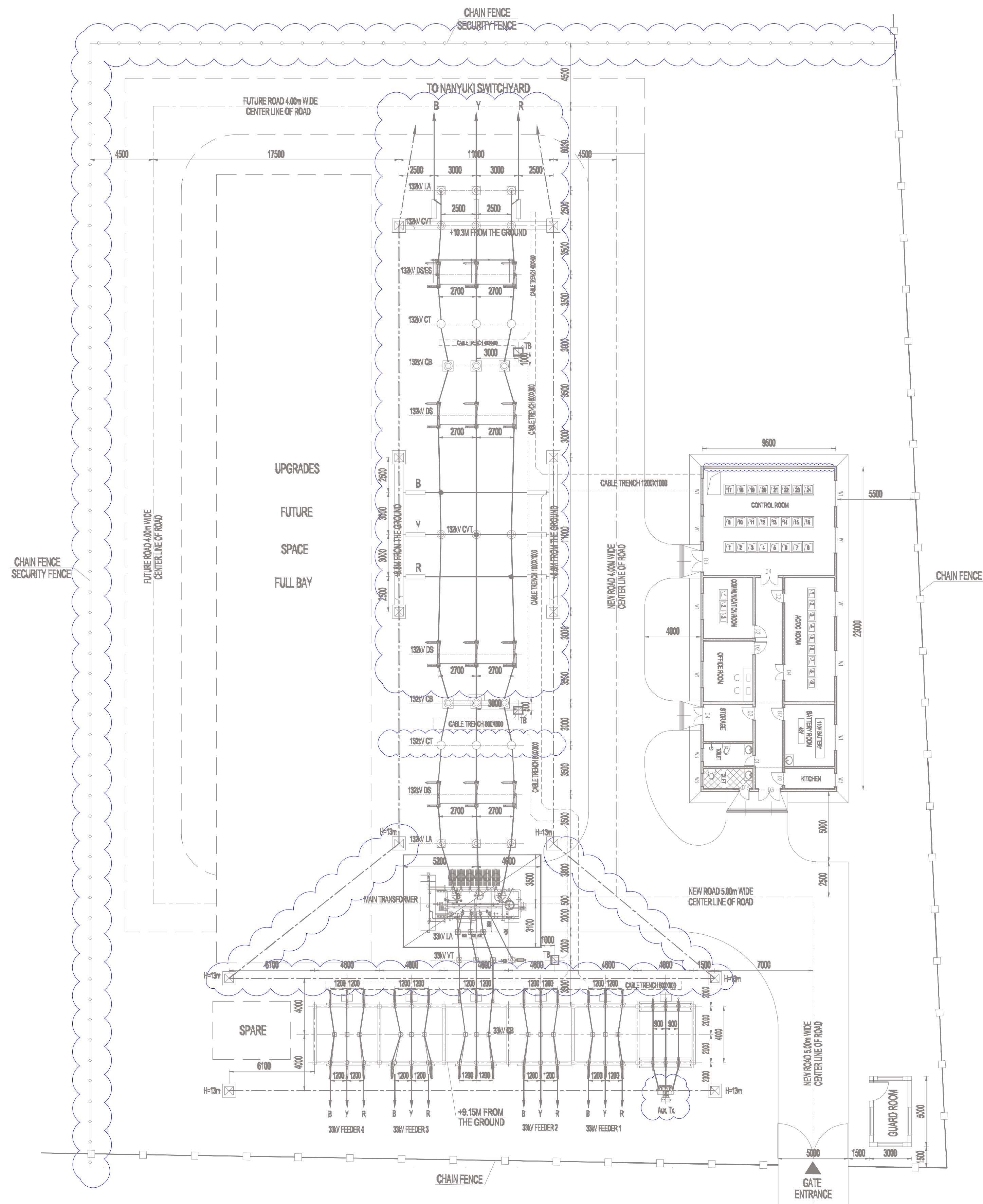
ABBR.	EQUIPMENT
CB	CIRCUIT BREAKER
CT	CURRENT TRANSFORMER
VT	VOLTAGE TRANSFORMER
DS	DISCONNECTING SWITCH
DSE	DISCONNECTING SWITCH WITH EARTHING SWITCH
EM	EARTH MAT
ES	EARTH SWITCH
GA	GANTRY TOWER
LA	LIGHTNING ARRESTER
BMK	BAY MARSHALLING KIOSK
PI	POST INSULATOR
SC	SURGE COUNTER
SI	STRING INSULATOR
TW	TOWER
MH	MANHOLE

NOTE:



- 1- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
- 2- 132kV SWITCHYARD LAYOUT PLAN & SECTION ARE TYPICAL REPRESENTATION & PRELIMINARY.
- 3- ALL CLEARANCES ARE AS PER IEC GUIDELINES.
- 4- LOCATION OF MARSHALLING BOX SHOWN IN DRAWING ARE TENTATIVE AND SHALL BE SUITABLY LOCATED CONSIDERING ACTUAL SITE CONDITION.
- 5- ALL THE EQUIPMENT & BUSES IN THE SOW WILL BE PROTECTED FROM LIGHTNING STRIKE BY MEANS OF SHIELD WIRE.
- 6- DISCONNECTOR SWITCH WILL HAVE MECHANICAL AND ELECTRICAL INTERLOCK WITH THE RELEVANT EARTH SWITCH.
- 7- ELECTRICAL INTERLOCK WILL BE PROVIDED BETWEEN DISCONNECTORS & CIRCUIT BREAKER SUCH THAT DISCONNECTOR WILL BE OPEN AND CLOSED WHEN RESPECTIVE CIRCUIT BREAKER IS IN OFF POSITION.
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- 9- ALL CABLE TRENCHES' SIZES AND ROUTES ARE TENTATIVE AND SUBJECTED TO CABLE TRENCH LAYOUT & DETAIL DOCUMENT AND CLIENT/ CONSULTANT'S APPROVAL.
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- 12- ALL CLEARANCES WILL BE FINALIZED AFTER APPROVAL OF INSULATION COORDINATION DOCUMENT IN EPC DETAIL DESIGN STAGE.
- 13- CONSIDERING THE SIGNIFICANT LEVEL DIFFERENCE BETWEEN THE EDGE/ FENCE TO BE DEMOLISHED AND THE COVERING THE NEW SCOPE, THE CONTRACTOR SHALL SELF-APPRAISE ON THIS ASPECT WHICH MAY INFLUENCE DESIGN DECISION ON BUSBAR EXTENSION, EARTHWORKS AND DRAINAGE WORKS.
- 14- THE CONTRACTOR SHOULD STUDY FOUNDATION DRAWINGS/ SITE CONDITION CAREFULLY BEFORE FIRING UP ON THE FOUNDATION DESIGN CONSIDERING THE 200mm. THICK CONCRETE RAFT FOUNDATION OVER THE ENTIRE SUBSTATION SWITCHYARD.
- 15- WHEREVER THE CABLE TRENCH CROSSES THE ROAD, AN UNDER ROAD CONCRETE CABLE DUCT SHALL BE CONSIDERED IN GENERAL LAYOUT, TOGETHER WITH PROVIDING THE ELABORATE DESIGN DURING EPC DETAIL DESIGN STAGE.
- 16- THE LIGHTNING PROTECTION IS INDICATIVE ONLY AND THE CONTRACTOR SHALL PROVIDE CALCULATIONS.
- 17- THE LIGHTNING AND POWER FREQUENCY WITHSTAND VOLTAGE WILL BE GUIDED BY AN INSULATION COORDINATION STUDY IN ACCORDANCE TO IEC.
- 18- EXISTING 100kVA AUXILIARY TRANSFORMER HAS TO BE DISASSEMBLED AND DELIVERED TO CLIENT. NEW 315kVA AUXILIARY TRANSFORMER HAS TO BE REPLACED.

GENERAL NOTES & LEGENDS OF 33KV EQUIPMENT



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 COLENCO CONSULTING LIMITED	
PROJECT:	
KENYA TRANSMISSION NETWORK IMPROVEMENT PROJECT (KTRNIP).	
PROJECT DRAWING NO.:	
NAME:	DATE:
PROJECT NO.:	
PREPARED:	NIL
RUMURUTI 132/33kV SUBSTATION	
DRAWN:	F.J
14/05/2025	
CHECKED:	V.JOSHI
14/05/2025	
APPROVED:	S.DESHMAUKH
14/05/2025	
GENERAL NOTES & LEGENDS OF 33KV EQUIPMENT	
REVISIONS	
NO. NAME DATE	
SCALE:	1:600
DWG NO.:	
REV.:	



SN: SUBSTATION NORTH
TN: TRUE NORTH

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		COLENCO CONSULTING LIMITED	
PROJECT:			
KENYA TRANSMISSION NETWORK IMPROVEMENT PROJECT (KTRNIP).			
PROJECT DRAWING NO.			
NAME:		DATE:	
PREPARED: NIL		PROJECT NO:	
DRAWN: F.J		15/05/2025	
CHECKED: V.JOSHI		15/05/2025	
APPROVED: S. DESHMUKH		15/05/2025	
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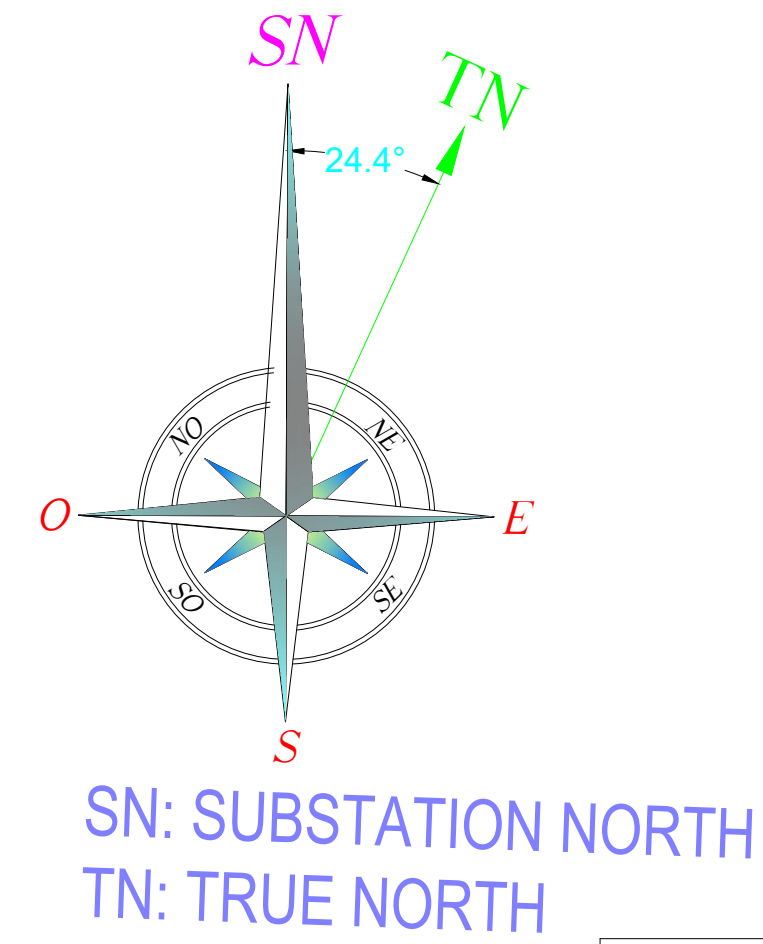
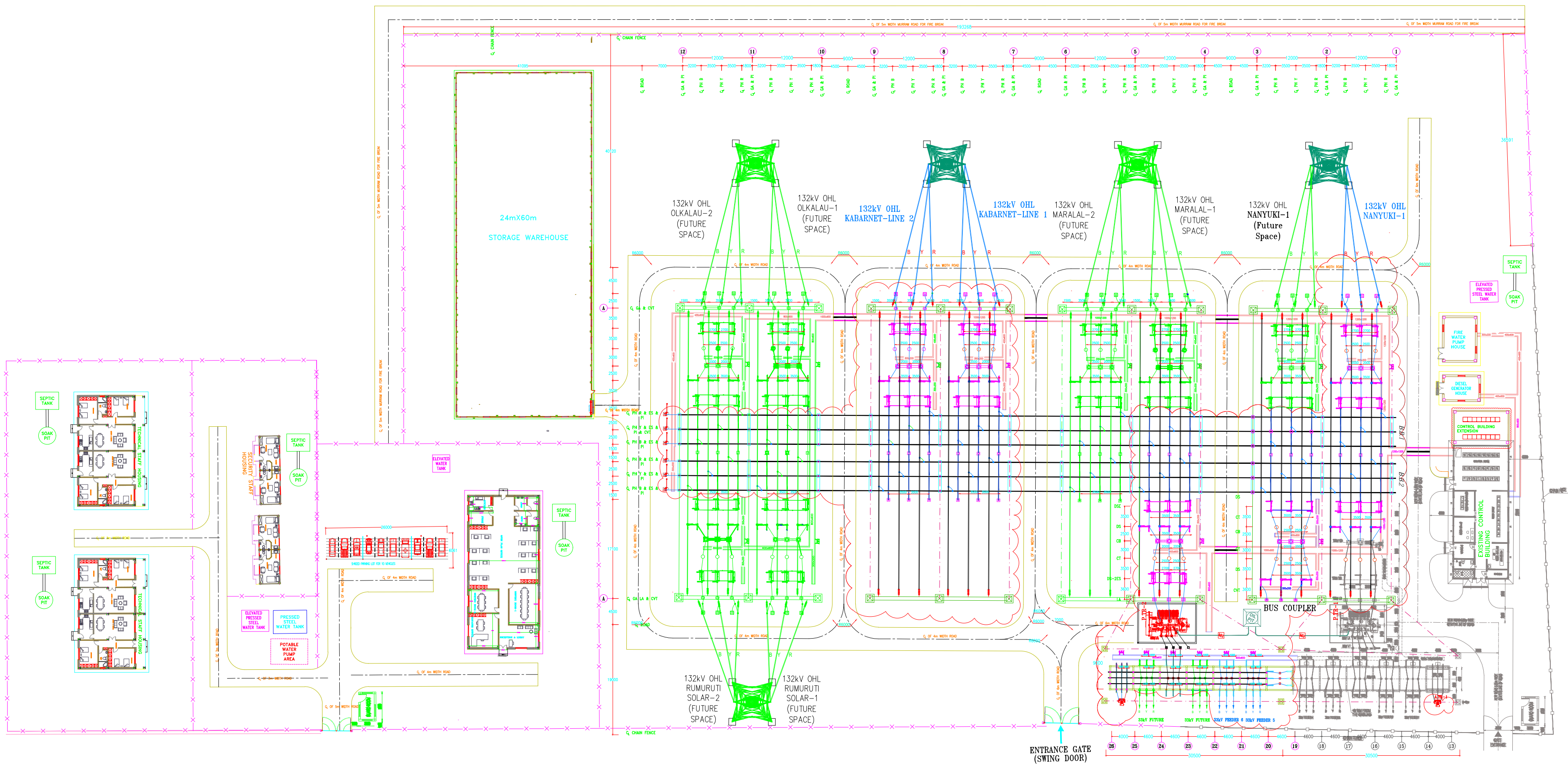


LEGEND	
	CURRENT SCOPE OF WORK)
	EXISTING

REFERENCE DRAWINGS																																																																																																
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KENYA TRANSMISSION NETWORK IMPROVEMENT PROJECT (KTRNIP).																																																																																																
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PROJECT DRAWING NO:	NAME:	DATE:	PROJECT NO:																																																																																													
PREPARED: NIL	F.J	15/05/2021	RUMURUTI 132/33KV SUBSTATION																																																																																													
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SCALE: 1:400			DWG NO: RUMURUTI-SP(SCOPE)-002			REV.: _____																																																																																										

RUMURUTI COORDINATES		
STATION	X (EASTING)	Y (NORTHING)
R1	222161	27160
R2	222456	27270
R3	222521	27146
R4	222216	27010

SITE PLAN (CURRENT SCOPE OF WORK)



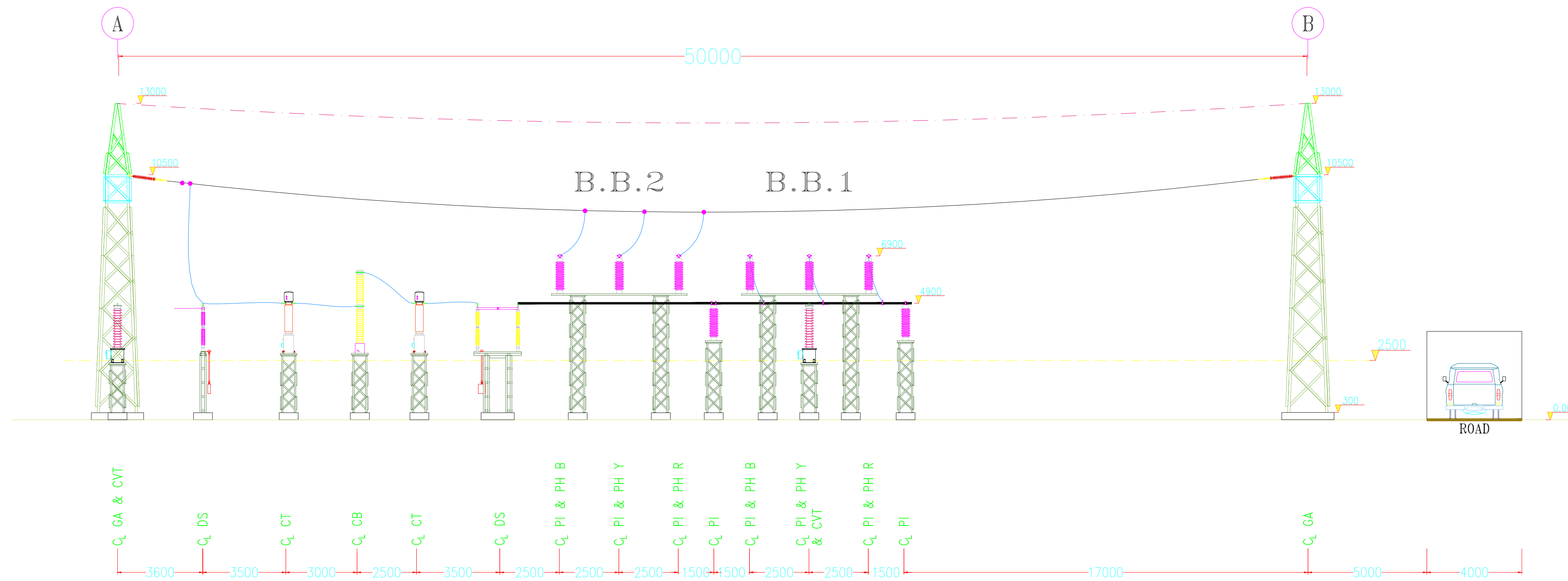
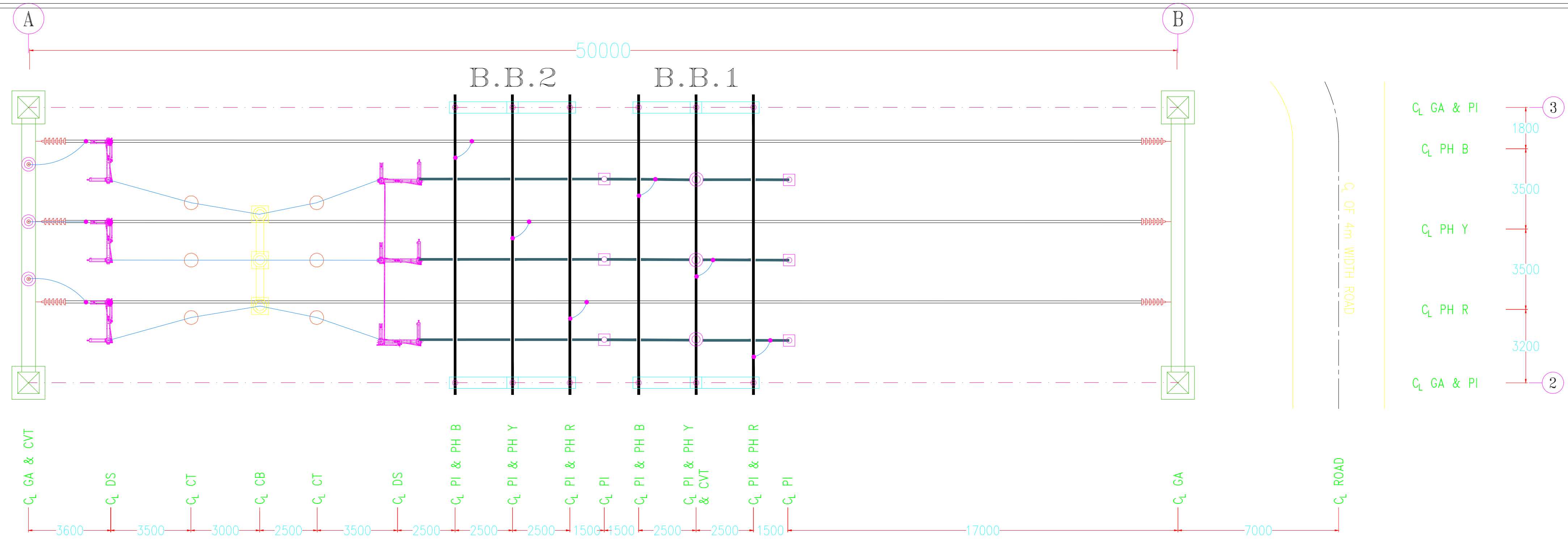
LEGEND

	CURRENT SCOPE OF WORK
	FUTURE SCOPE
	EXISTING
	BAYS AND FEEDERS UNDER CURRENT SCOPE OF WORK

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		COLONCO CONSULTING LIMITED	
PROJECT:			
KENYA TRANSMISSION NETWORK IMPROVEMENT PROJECT (KTRNIP).			
PROJECT DRAWING NO.:			
NAME:		DATE:	
PROJECT NO.:			
PREPARED: NIL		RUMURUTI 132/33kV SUBSTATION	
DRAWN: F.J		15/05/2025	
CHECKED: V.JOSHI		15/05/2025	
APPROVED: S. DESHMUKH		17/05/2025	
TITLE:		GENERAL LAYOUT (OVERALL)	
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NO. NAME DATE			
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REV.:			





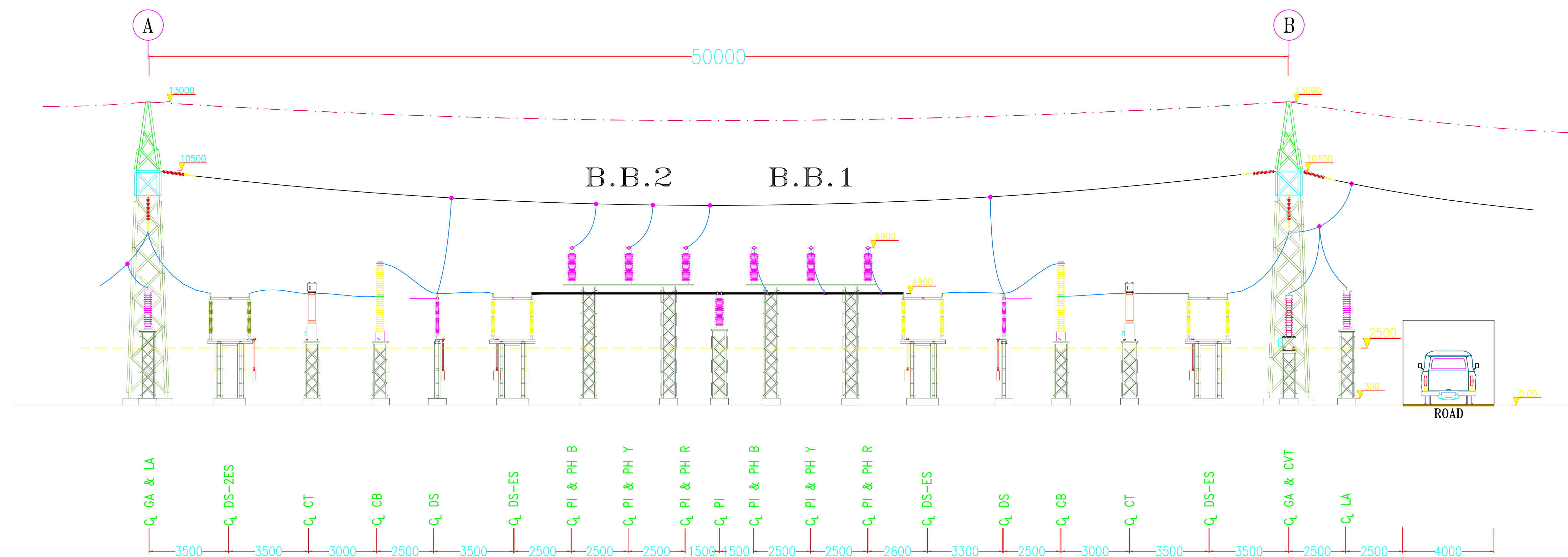
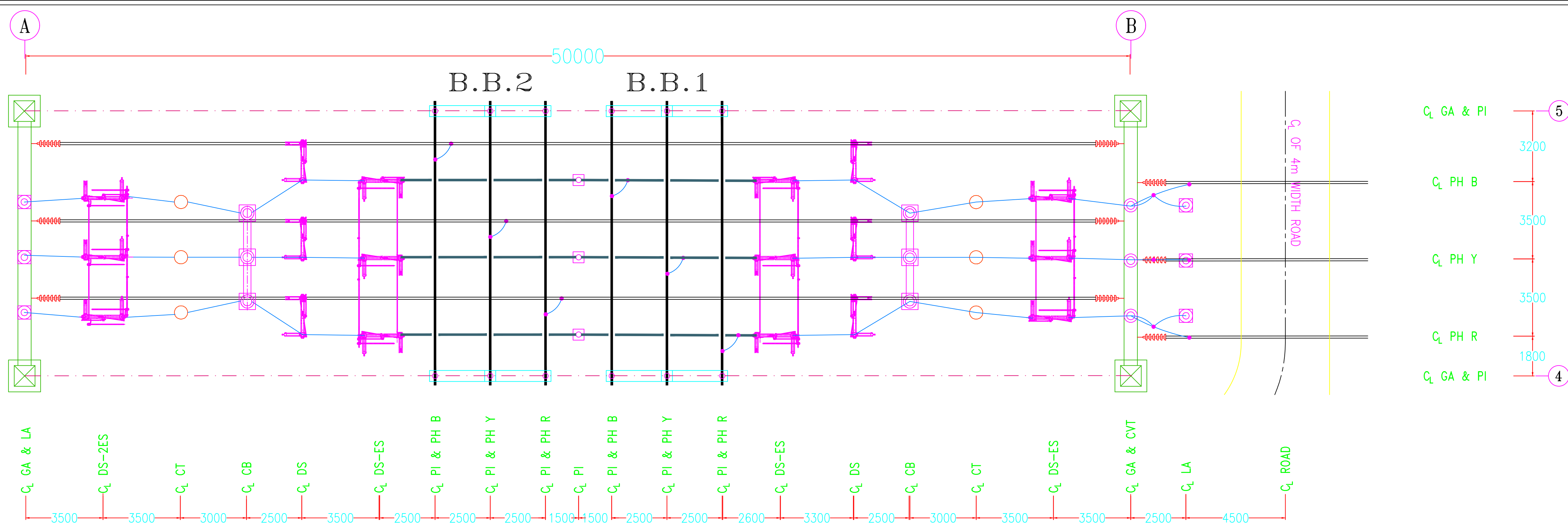
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		KENYA ELECTRICITY TRANSMISSION COMPANY LTD			
		COLONCO CONSULTING LIMITED			
PROJECT: KENYA TRANSMISSION NETWORK IMPROVEMENT PROJECT (KTRNIP).					
PROJECT DRAWING NO.					
	NAME:	DATE:	PROJECT NO.		
PREPARED:	NIL		RUMURUTI 132/33kV SUBSTATION		
DRAWN:	F.J	19/05/2025	TITLE:		
CHECKED:	V.JOSHI	19/05/2025			
APPROVED:	S. DESHMUKH	19/05/2025	GENERAL PLAN (CURRENT SCOPE OF WORK)		
REVIEWS					
NO. NAME DATE					
SCALE: 1:600		DWG NO.		RUMURUTI -GP-SCOPE-003	REV.:



SECTION 'A-A'



SECTION 'A-A'

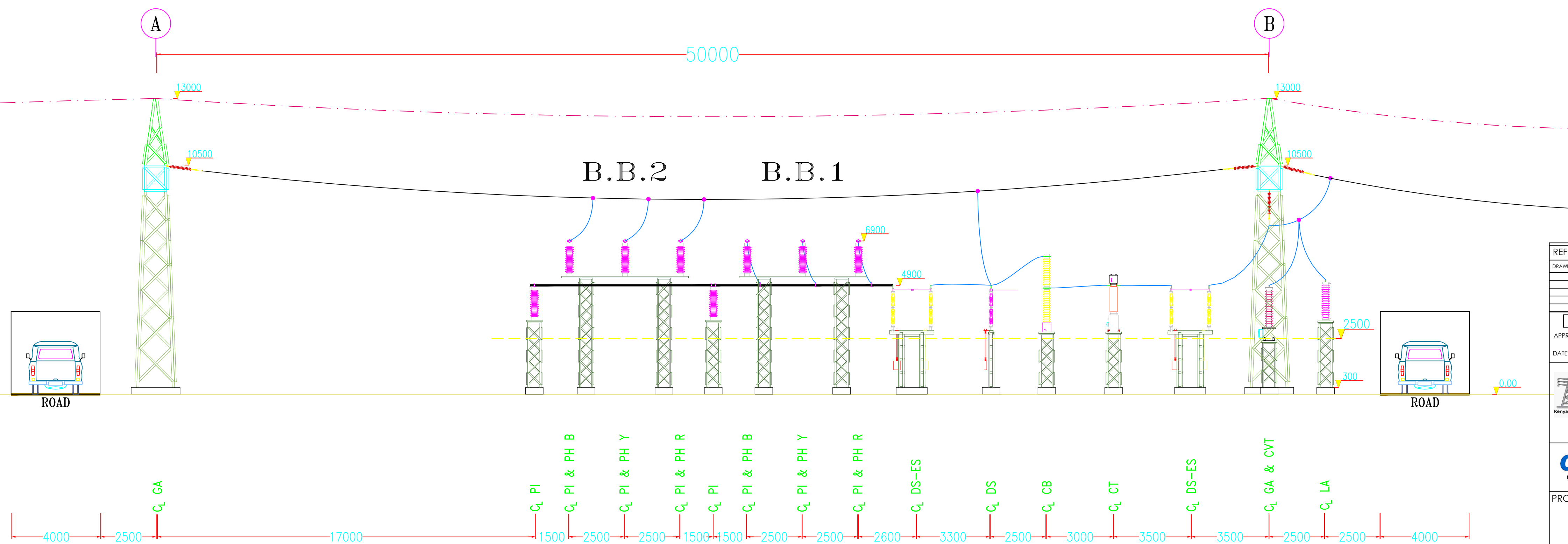
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<input type="checkbox"/> NOT APPROVED	<input type="checkbox"/> FOR INFORMATION
DATE:.....	SIGNATURE/STAMP:..... PROJECT CONSULTANT
 KENYA ELECTRICITY TRANSMISSION COMPANY LTD	
 COLENCO CONSULTING LIMITED	
PROJECT: KENYA TRANSMISSION NETWORK IMPROVEMENT PROJECT (KTRNIP).	
PROJECT NO.:	
NAME:	DATE:
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PREPARED: NIL	RUMURUTI 132/33KV SUBSTATION
DRAWN: F.J	14/05/2025
CHECKED: V.JOSHI	14/05/2025
APPROVED: S.DESHMUKH	14/05/2025
SECTION 'A-A'	
REVISIONS	
NO. NAME DATE	
SCALE: 1:600 DWG NO. REV.:	





SECTION 'B-B'

SECTION 'B-B'



REFERENCE DRAWINGS			
DRAWINGS NO.:	TITLE:		
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DATE:.....		SIGNATURE/STAMP:..... PROJECT CONSULTANT	
		KENYA ELECTRICITY TRANSMISSION COMPANY LTD	
		COLENCO CONSULTING LIMITED	
PROJECT:			
KENYA TRANSMISSION NETWORK IMPROVEMENT PROJECT (KTRNIP).			
PROJECT DRAWING NO.:			
NAME:	DATE:	PROJECT NO.:	
PREPARED: NIL		RUMURUTI 132/33kV SUBSTATION	
DRAWN: F.J	14/05/2025	TITLE:	
CHECKED: V.JOSHI	14/05/2025	RUMURUTI SECTION 'B-B'	
APPROVED: S.DESHMUKH	14/05/2025		
REVISIONS			
NO.	NAME	DATE	
SCALE: 1:600 DWG NO. REV.:			



SECTION 'C-C'

REFERENCE DRAWINGS									
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DATE:.....					SIGNATURE/STAMP:..... PROJECT CONSULTANT				
<div><div>KETRACO Kenya Electricity Transmission Company Limited <small>ESTABLISHED 1991</small></div></div>					KENYA ELECTRICITY TRANSMISSION COMPANY LTD				
<div><div>COLENCO Innovation for sustainable future</div></div>					COLENCO CONSULTING LIMITED				
PROJECT:									
KENYA TRANSMISSION NETWORK IMPROVEMENT PROJECT (KTRNIP).									
PROJECT DRAWING NO.									
		NAME:		DATE:		PROJECT NO.:			
PREPARED:		NIL				RUMURUTI 132/33KV SUBSTATION			
DRAWN:		F.J		14/05/2025		TITLE:			
CHECKED:		V.JOSHI		14/05/2025		RUMURUTI LAYOUT SECTION "C-C"			
APPROVED:		S.DESHMUKH		14/05/2025					
REVISIONS									
		NO. NAME DATE							
SCALE:		1:600		DWG NO.				REV.:	



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PROJECT DRAWING NO.	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">NAME:</td> <td style="width: 10%;">DATE:</td> <td style="width: 80%;">PROJECT NO.:</td> </tr> <tr> <td>PREPARED: NIL</td> <td></td> <td rowspan="5" style="text-align: center; vertical-align: middle;"> <p>RUMURUTI 132/33KV SUBSTATION</p> <p>TITLE:</p> <p>RUMURUTI LAYOUT SECTION 'D-D'</p> </td> </tr> <tr> <td>DRAWN: F.J</td> <td>14/05/2025</td> </tr> <tr> <td>CHECKED: V.JOSHI</td> <td>14/05/2025</td> </tr> <tr> <td>APPROVED: S.DESHMUJH</td> <td>14/05/2025</td> </tr> <tr> <td>NO. NAME DATE</td> <td></td> </tr> </table>	NAME:	DATE:	PROJECT NO.:	PREPARED: NIL		<p>RUMURUTI 132/33KV SUBSTATION</p> <p>TITLE:</p> <p>RUMURUTI LAYOUT SECTION 'D-D'</p>	DRAWN: F.J	14/05/2025	CHECKED: V.JOSHI	14/05/2025	APPROVED: S.DESHMUJH	14/05/2025	NO. NAME DATE											
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<div style="display: flex;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); border: 1px solid black; padding: 2px;">REVISIONS</div> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 5%;"> </td><td style="width: 15%;"> </td><td style="width: 15%;"> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </table> </div>																			<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">SCALE: 1:600</td> <td style="width: 10%;">DWG NO.</td> <td style="width: 80%;">REV.:</td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>	SCALE: 1:600	DWG NO.	REV.:			
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