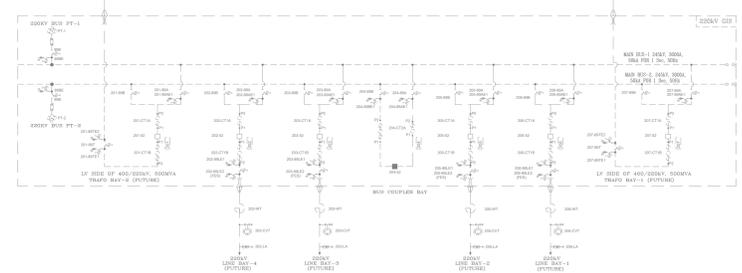
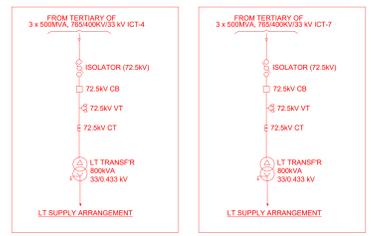


**NOTES:**

1. SLD IS INDICATIVE AND SHALL BE UPDATE

**LEGEND:**

- SCOPE UNDER HPFS TRANSMISSION LIMITED
- SCOPE UNDER HPFS TRANSMISSION LIMITED
- SCOPE UNDER TS 4 20KV FE From Khavda RE Phase II Part A
- SCOPE UNDER TS ADD. 7 0KV FE From Khavda RE Phase II Part A
- SCOPE UNDER KHAVDA PH-IV (700V) Part 2

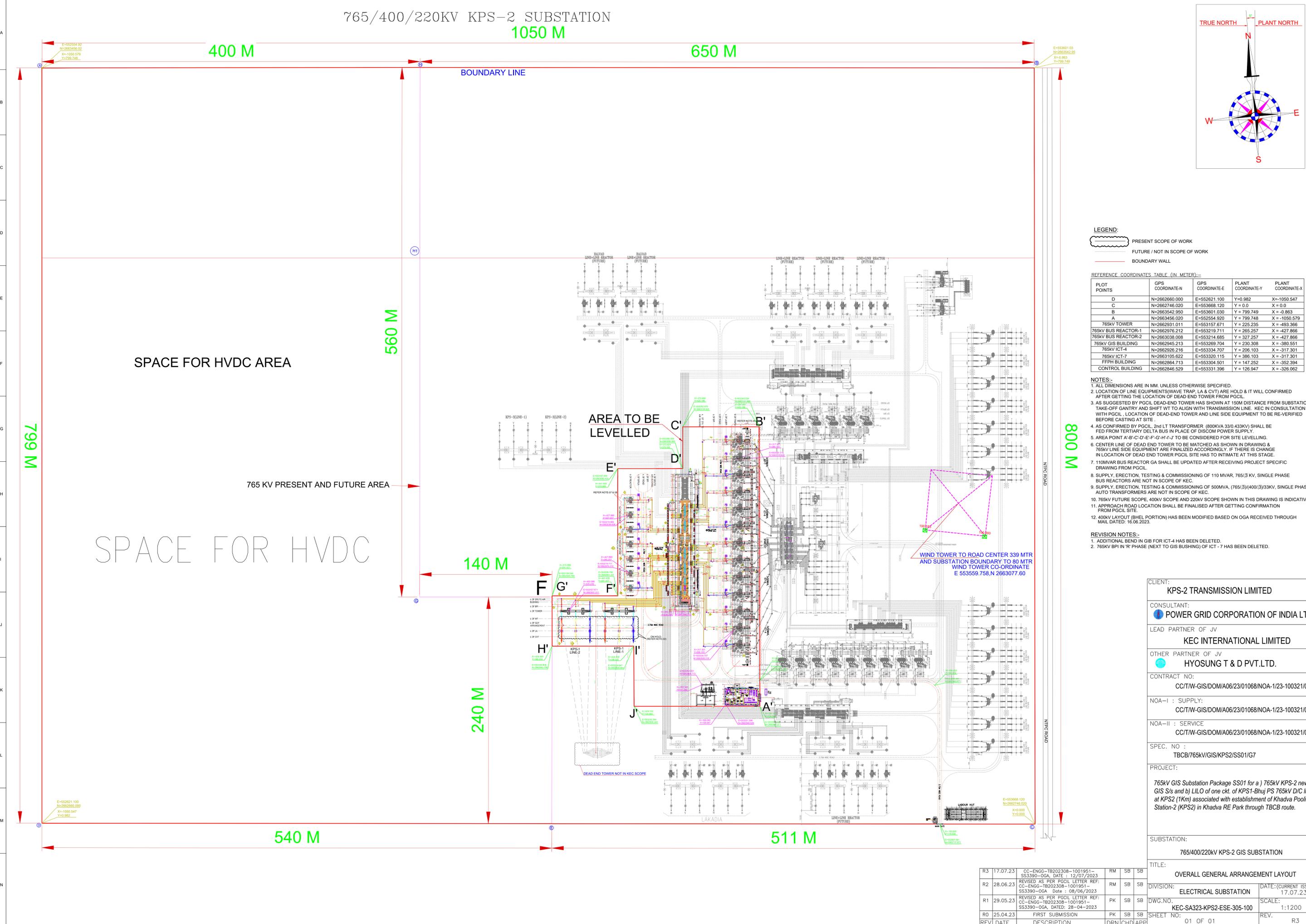
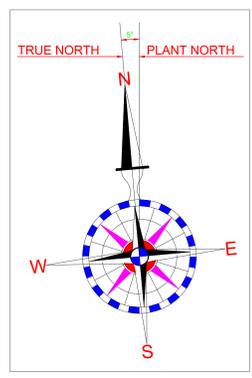


<b>PROJECT:</b>	
Transmission system for evacuation of additional 7 GW RE power from Khavda RE park under Phase-IV Part E2	
<b>SUBSTATION:</b>	
765/400/220kV KPS-2 GIS SUBSTATION (HALVAD Extn)	
<b>TITLE:</b>	
765/400/220kV OVERALL SINGLE LINE DIAGRAM	
<b>DIVISION:</b>	<b>DATE:</b>
ELECTRICAL SUBSTATION	
<b>DWG NO.:</b>	<b>SCALE:</b>
CC_ENGG_SLD_KPS-2	NTS
<b>SHEET NO.:</b>	<b>REV.:</b>
02 OF 02	R0

FILE PATH: Design Common Drive (\\narramp@pds\X\_L04-Other\REG STD SHEET\PH\HORIZONTAL SHEET\REG-STD-SHEET-04 (L SHAPE) R0

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765/400/220KV KPS-2 SUBSTATION  
1050 M



**LEGEND:**

- PRESENT SCOPE OF WORK
- FUTURE / NOT IN SCOPE OF WORK
- BOUNDARY LINE

**REFERENCE COORDINATES TABLE (IN METER):-**

PLOT POINTS	GPS COORDINATE-N	GPS COORDINATE-E	PLANT COORDINATE-Y	PLANT COORDINATE-X
D	N=2662660.000	E=552621.100	Y=0.982	X=-1050.547
C	N=2662746.020	E=553668.120	Y = 0.0	X = 0.0
B	N=2663542.950	E=553601.030	Y = 799.749	X = -0.863
A	N=2663456.020	E=552554.920	Y = 799.748	X = -1050.579
765KV TOWER	N=2662931.011	E=553157.671	Y = 225.235	X = -493.366
765KV BUS REACTOR-1	N=2662976.212	E=553219.711	Y = 265.257	X = -427.866
765KV BUS REACTOR-2	N=2663038.008	E=553214.685	Y = 327.257	X = -427.866
765KV GIS BUILDING	N=2662945.213	E=553269.704	Y = 230.308	X = -380.551
765KV ICT-4	N=2662926.216	E=553334.707	Y = 206.103	X = -317.301
765KV ICT-7	N=2663105.622	E=553320.115	Y = 386.103	X = -317.301
FFPH BUILDING	N=2662864.713	E=553304.501	Y = 147.252	X = -352.394
CONTROL BUILDING	N=2662846.529	E=553331.396	Y = 126.947	X = -326.062

- NOTES:-**
- ALL DIMENSIONS ARE IN MM. UNLESS OTHERWISE SPECIFIED.
  - LOCATION OF LINE EQUIPMENTS (WAVE TRAP, LA & CVT) ARE HOLD & IT WILL CONFIRMED AFTER GETTING THE LOCATION OF DEAD END TOWER FROM PGCIL.
  - AS SUGGESTED BY PGCIL DEAD-END TOWER HAS SHOWN AT 150M DISTANCE FROM SUBSTATION TAKE-OFF GANTRY AND SHFT WT TO ALIGN WITH TRANSMISSION LINE. KEC IN CONSULTATION WITH PGCIL. LOCATION OF DEAD-END TOWER AND LINE SIDE EQUIPMENT TO BE RE-VERIFIED BEFORE CASTING AT SITE.
  - AS CONFIRMED BY PGCIL, 2nd LT TRANSFORMER (800KVA 330/43KV) SHALL BE FED FROM TERTIARY DELTA BUS IN PLACE OF DISCOM POWER SUPPLY.
  - AREA POINT A'-B'-C'-D'-E'-F'-G'-H'-I'-J' TO BE CONSIDERED FOR SITE LEVELLING.
  - CENTER LINE OF DEAD END TOWER TO BE MATCHED AS SHOWN IN DRAWING & 765KV LINE SIDE EQUIPMENT ARE FINALIZED ACCORDINGLY. IF THERE IS CHANGE IN LOCATION OF DEAD END TOWER PGCIL SITE HAS TO INTIMATE AT THIS STAGE.
  - 110MVAR BUS REACTOR GA SHALL BE UPDATED AFTER RECEIVING PROJECT SPECIFIC DRAWING FROM PGCIL.
  - SUPPLY, ERECTION, TESTING & COMMISSIONING OF 110 MVAR, 765/3 KV, SINGLE PHASE BUS REACTORS ARE NOT IN SCOPE OF KEC.
  - SUPPLY, ERECTION, TESTING & COMMISSIONING OF 500MVA, (765/3)/(400/3)/33KV, SINGLE PHASE AUTO TRANSFORMERS ARE NOT IN SCOPE OF KEC.
  - 765KV FUTURE SCOPE, 400KV SCOPE AND 220KV SCOPE SHOWN IN THIS DRAWING IS INDICATIVE.
  - APPROACH ROAD LOCATION SHALL BE FINALISED AFTER GETTING CONFIRMATION FROM PGCIL SITE.
  - 400KV LAYOUT (BHEL PORTION) HAS BEEN MODIFIED BASED ON OGA RECEIVED THROUGH MAIL DATED: 16.06.2023.

- REVISION NOTES:-**
- ADDITIONAL BEND IN GIB FOR ICT-4 HAS BEEN DELETED.
  - 765KV BPI IN 'R' PHASE (NEXT TO GIS BUSHING) OF ICT - 7 HAS BEEN DELETED.

**CLIENT:**  
KPS-2 TRANSMISSION LIMITED

**CONSULTANT:**  
POWER GRID CORPORATION OF INDIA LTD.

**LEAD PARTNER OF JV:**  
KEC INTERNATIONAL LIMITED

**OTHER PARTNER OF JV:**  
HYOSUNG T & D PVT.LTD.

**CONTRACT NO.:**  
CC/TW-GIS/DOM/A06/23/01068/NOA-1/23-100321/01

**NOA-I : SUPPLY:**  
CC/TW-GIS/DOM/A06/23/01068/NOA-1/23-100321/01

**NOA-II : SERVICE:**  
CC/TW-GIS/DOM/A06/23/01068/NOA-1/23-100321/02

**SPEC. NO. :**  
TBCB/765KV/GIS/KPS2/SS01/G7

**PROJECT:**  
765kv GIS Substation Package SS01 for a) 765kv KPS-2 new GIS S/s and b) LIL of one ckt. of KPS1-Bhuj PS 765kv D/C line at KPS2 (1Km) associated with establishment of Khadva Pooling Station-2 (KPS2) in Khadva RE Park through TBCB route.

**SUBSTATION:**  
765/400/220KV KPS-2 GIS SUBSTATION

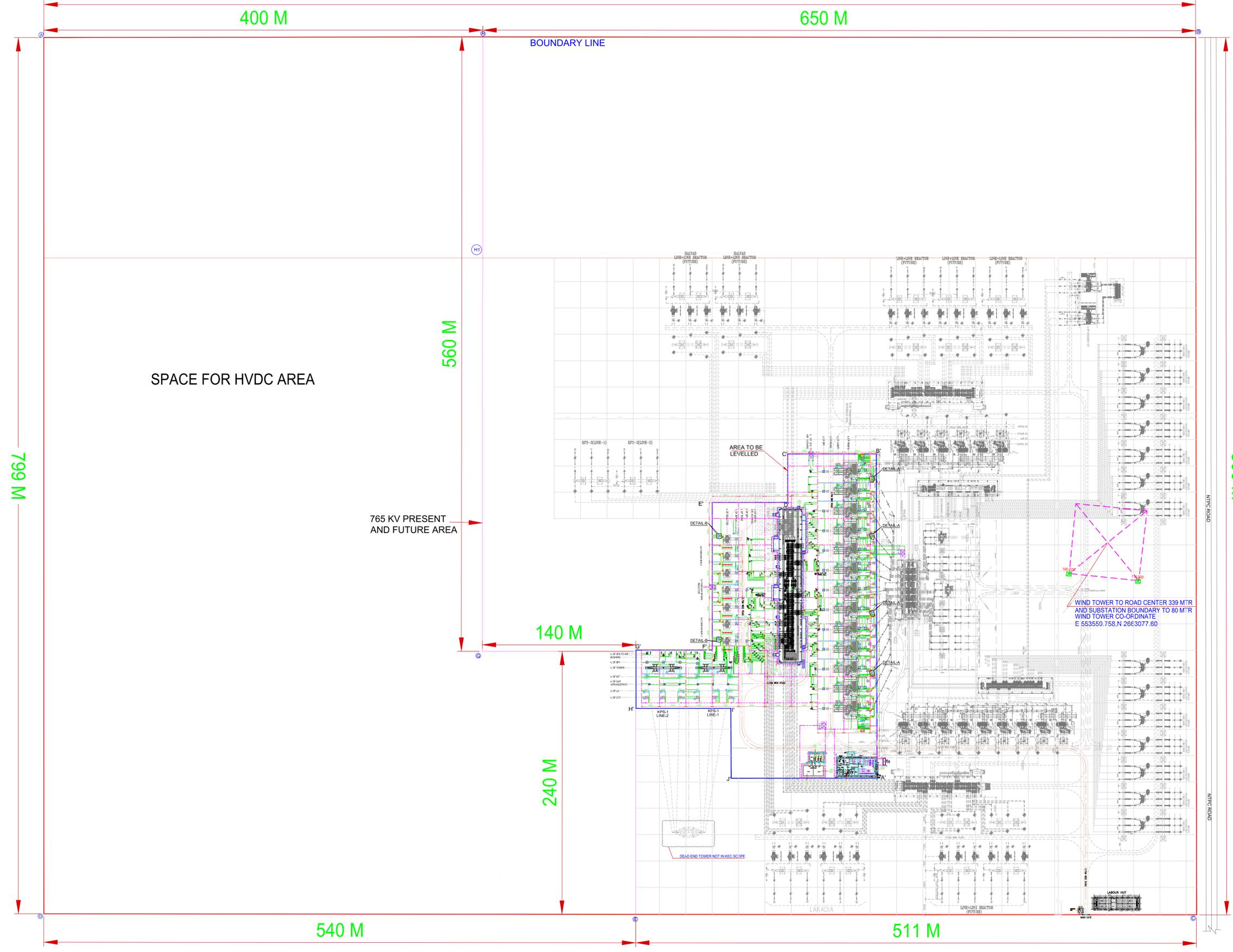
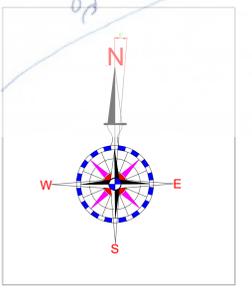
**TITLE:**  
OVERALL GENERAL ARRANGEMENT LAYOUT

REV	DATE	DESCRIPTION	DRN	CHD	APP
R3	17.07.23	CC-ENGG-TB202308-1001951-SS3390-OGA, DATE : 12/07/2023	RM	SB	SB
R2	28.06.23	REVISED AS PER PGCIL LETTER REF: CC-ENGG-TB202308-1001951-SS3390-OGA Date : 08/06/2023	RM	SB	SB
R1	29.05.23	REVISED AS PER PGCIL LETTER REF: CC-ENGG-TB202308-1001951-SS3390-OGA, DATED: 28-04-2023	PK	SB	SB
R0	25.04.23	FIRST SUBMISSION	PK	SB	SB

**DIVISION:** ELECTRICAL SUBSTATION  
**DATE:** (CURRENT ISSUE) 17.07.23  
**DWG. NO.:** KEC-SA323-KPS2-ESE-305-100  
**SCALE:** 1:1200  
**SHEET NO.:** 01 OF 01  
**REV.:** R3

FILE PATH: Design Common Drive (M:\mumpad\U\_D04\_Other\KEC STD SHEET\FINAL\HORIZONTAL SHEET\KEC-STD-SHEET-A0(L SHAPE) R0

765/400/220KV KPS-2 SUBSTATION  
1050 M

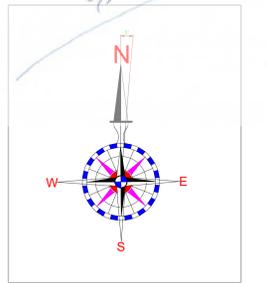
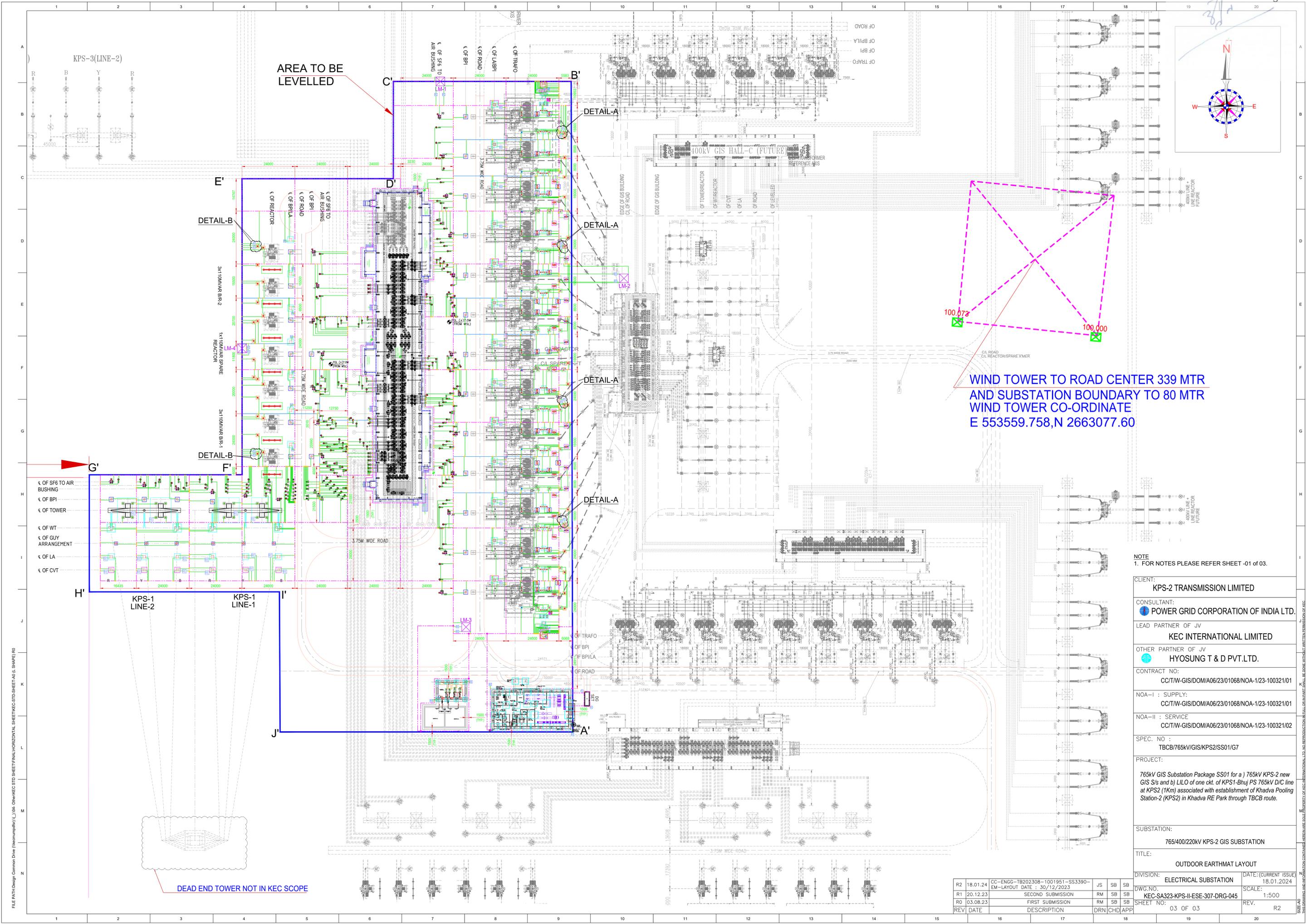


**LEGEND:**  
 ——— PRESENT SCOPE OF WORK  
 - - - - FUTURE / NOT IN SCOPE OF WORK  
 ——— BOUNDARY WALL

**NOTE**  
 1. FOR NOTES PLEASE REFER SHEET -01 of 03.

CLIENT:	KPS-2 TRANSMISSION LIMITED		
CONSULTANT:	POWER GRID CORPORATION OF INDIA LTD.		
LEAD PARTNER OF JV	KEC INTERNATIONAL LIMITED		
OTHER PARTNER OF JV	HYOSUNG T & D PVT.LTD.		
CONTRACT NO:	CC/T/W-GIS/DOM/A06/23/01068/NOA-1/23-100321/01		
NOA-I : SUPPLY:	CC/T/W-GIS/DOM/A06/23/01068/NOA-1/23-100321/01		
NOA-II : SERVICE	CC/T/W-GIS/DOM/A06/23/01068/NOA-1/23-100321/02		
SPEC. NO :	TBCB/765KV/GIS/KPS2/SS01/G7		
PROJECT:	765kV GIS Substation Package SS01 for a) 765kV KPS-2 new GIS S/s and b) LIL0 of one ckt. of KPS1-Bhuj PS 765kV D/C line at KPS2 (1Km) associated with establishment of Khadva Pooling Station-2 (KPS2) in Khadva RE Park through TBCB route.		
SUBSTATION:	765/400/220KV KPS-2 GIS SUBSTATION		
TITLE:	OUTDOOR EARTHMAT LAYOUT		
DIVISION:	ELECTRICAL SUBSTATION	DATE: (CURRENT ISSUE)	18.01.2024
DWG. NO.	KEC-SA323-KPS-II-ESE-307-DRG-045	SCALE:	1:1200
SHEET NO:	02 OF 03	REV.	R2

REV	DATE	DESCRIPTION	DRN	CHD	APP
R2	18.01.24	CC-ENG-TB202308-1001951-SS3390-EM-LAYOUT DATE: 30/12/2023	JS	SB	SB
R1	20.12.23	SECOND SUBMISSION	RM	SB	SB
R0	03.08.23	FIRST SUBMISSION	RM	SB	SB



WIND TOWER TO ROAD CENTER 339 MTR  
 AND SUBSTATION BOUNDARY TO 80 MTR  
 WIND TOWER CO-ORDINATE  
 E 553559.758, N 2663077.60

NOTE  
 1. FOR NOTES PLEASE REFER SHEET -01 of 03.

CLIENT:	KPS-2 TRANSMISSION LIMITED		
CONSULTANT:	POWER GRID CORPORATION OF INDIA LTD.		
LEAD PARTNER OF JV	KEC INTERNATIONAL LIMITED		
OTHER PARTNER OF JV	HYOSUNG T & D PVT.LTD.		
CONTRACT NO:	CC/TW-GIS/DOM/A06/23/01068/NOA-1/23-100321/01		
NOA-I : SUPPLY:	CC/TW-GIS/DOM/A06/23/01068/NOA-1/23-100321/01		
NOA-II : SERVICE	CC/TW-GIS/DOM/A06/23/01068/NOA-1/23-100321/02		
SPEC. NO :	TBCB/765kV/GIS/KPS2/SS01/G7		
PROJECT:	765kV GIS Substation Package SS01 for a) 765kV KPS-2 new GIS S/s and b) LILo of one ckt. of KPS1-Bhuj PS 765kV D/C line at KPS2 (1km) associated with establishment of Khadva Pooling Station-2 (KPS2) in Khadva RE Park through TBCB route.		
SUBSTATION:	765/400/220kV KPS-2 GIS SUBSTATION		
TITLE:	OUTDOOR EARTHMAT LAYOUT		
DIVISION:	ELECTRICAL SUBSTATION	DATE: (CURRENT ISSUE)	18.01.2024
DWG. NO.	KEC-SA323-KPS-II-ESE-307-DRG-045		SCALE: 1:500
SHEET NO:	03 OF 03		REV. R2

R2	18.01.24	CC-ENG-TB202308-1001951-SS3390-EM-LAYOUT DATE : 30/12/2023	JS	SB	SB
R1	20.12.23	SECOND SUBMISSION	RM	SB	SB
R0	03.08.23	FIRST SUBMISSION	RM	SB	SB
REV	DATE	DESCRIPTION	DRN	CHD	APP

FILE PATH: Design Common Drive (Wazirumpada)\J\04. Other\MEC\STD SHEET\FINAL\HORIZONTAL SHEET\MEC-STD-SHEET\A0 (L SHAPE) R0