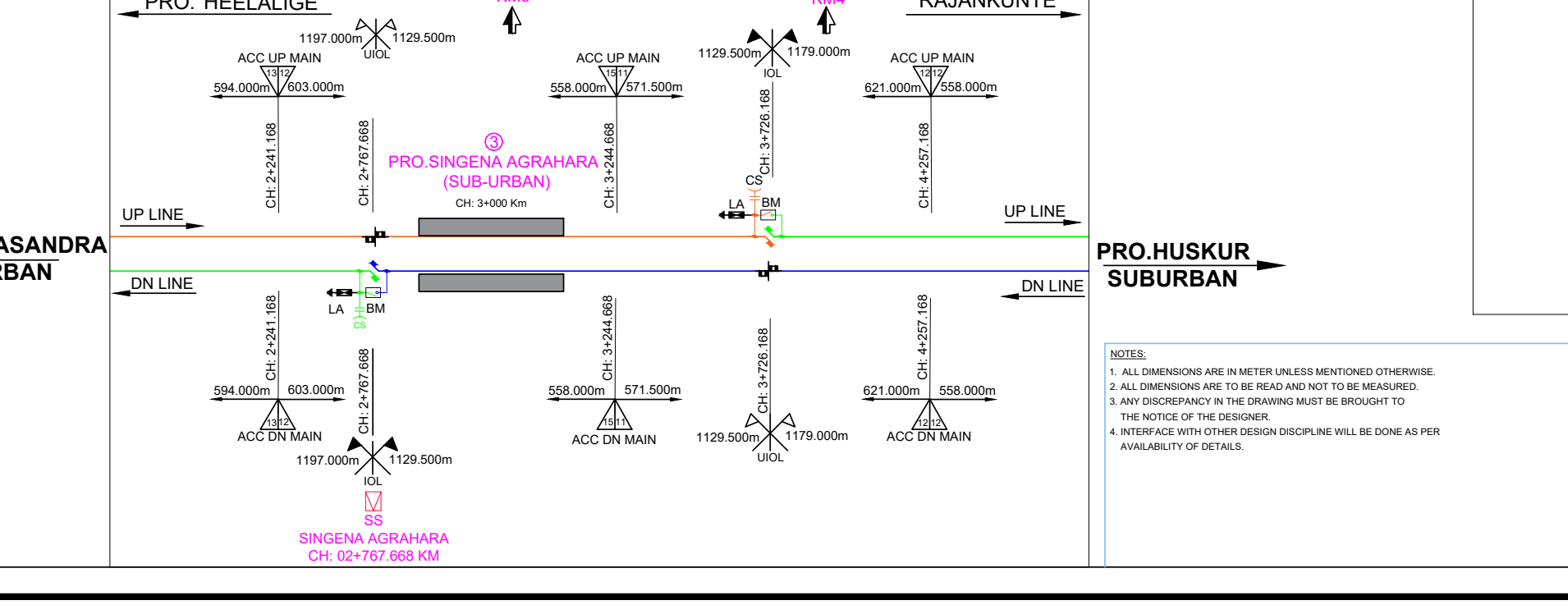
Refer Drawing No.
KRDD01-TDR-CR02-GEN-OCS-PGP-00001
UP LINE
PRO.BOMMASANDRA SUBURBAN
DN LINE
2+150.000
2+200.000
2+250.000
2+300.000
2+350.000
2+400.000
2+450.000
2+500.000
2+550.000
2+600.000
2+650.000
2+700.000
2+750.000
2+800.000
2+850.000
2+900.000
2+950.000
3+000.000
3+050.000
3+100.000
3+150.000
3+200.000
3+250.000
3+300.000
3+350.000
3+400.000
3+450.000
3+500.000
3+550.000
3+600.000
3+650.000
3+700.000
3+750.000
3+800.000
3+850.000
3+900.000
3+950.000
4+000.000
4+050.000
4+100.000
4+150.000
4+200.000
4+250.000
4+300.000
4+350.000
4+400.000
4+450.000
4+500.000
4+550.000
4+600.000
4+650.000
2/5 Mast Type--- Chainage 2124.168
2/7 Mast Type--- Chainage 2182.668
2/9 Mast Type--- Chainage 2241.168
2/11 Mast Type--- Chainage 2299.668
2/13 Mast Type--- Chainage 2353.668
2/15 Mast Type--- Chainage 2412.168
2/17 Mast Type--- Chainage 2466.168
2/19 Mast Type--- Chainage 2520.168
2/21 Mast Type--- Chainage 2583.168
2/23 Mast Type--- Chainage 2641.668
2/25 Mast Type--- Chainage 2686.668
2/27 Mast Type--- Chainage 2727.168
2/29 Mast Type--- Chainage 2767.668
2/31 Mast Type--- Chainage 2808.168
2/33 Mast Type--- Chainage 2844.168
2/35 Mast Type--- Chainage 2875.668
2/37 Mast Type--- Chainage 2898.168
2/39 Mast Type--- Chainage 2934.168
2/41 Mast Type--- Chainage 2970.168
3/1 Mast Type--- Chainage 3006.168
3/3 Mast Type--- Chainage 3042.168
3/5 Mast Type--- Chainage 3078.168
3/7 Mast Type--- Chainage 3114.168
3/9 Mast Type--- Chainage 3154.668
3/11 Mast Type--- Chainage 3195.168
3/13 Mast Type--- Chainage 3244.668
3/15 Mast Type--- Chainage 3298.668
3/17 Mast Type--- Chainage 3357.168
3/19 Mast Type--- Chainage 3411.168
3/21 Mast Type--- Chainage 3469.668
3/23 Mast Type--- Chainage 3523.668
3/25 Mast Type--- Chainage 3582.168
3/27 Mast Type--- Chainage 3636.168
3/29 Mast Type--- Chainage 3685.668
3/31 Mast Type--- Chainage 3726.168
3/33 Mast Type--- Chainage 3766.668
3/35 Mast Type--- Chainage 3816.168
3/37 Mast Type--- Chainage 3870.168
3/39 Mast Type--- Chainage 3928.668
3/41 Mast Type--- Chainage 3982.668
4/1 Mast Type--- Chainage 4036.668
4/3 Mast Type--- Chainage 4090.668
4/5 Mast Type--- Chainage 4149.168
4/7 Mast Type--- Chainage 4203.168
4/9 Mast Type--- Chainage 4257.168
4/11 Mast Type--- Chainage 4315.668
4/13 Mast Type--- Chainage 4365.168
4/15 Mast Type--- Chainage 4419.168
4/17 Mast Type--- Chainage 4473.168
4/19 Mast Type--- Chainage 4522.668
4/21 Mast Type--- Chainage 4576.668
4/23 Mast Type--- Chainage 4626.168
2/6 Mast Type--- Chainage 2124.168
2/8 Mast Type--- Chainage 2182.668
2/10 Mast Type--- Chainage 2241.168
2/12 Mast Type--- Chainage 2299.668
2/14 Mast Type--- Chainage 2353.668
2/16 Mast Type--- Chainage 2412.168
2/18 Mast Type--- Chainage 2466.168
2/20 Mast Type--- Chainage 2520.168
2/22 Mast Type--- Chainage 2583.168
2/24 Mast Type--- Chainage 2641.668
2/26 Mast Type--- Chainage 2686.668
2/28 Mast Type--- Chainage 2727.168
2/30 Mast Type--- Chainage 2767.668
2/32 Mast Type--- Chainage 2808.168
2/34 Mast Type--- Chainage 2844.168
2/36 Mast Type--- Chainage 2875.668
2/38 Mast Type--- Chainage 2902.668
2/40 Mast Type--- Chainage 2938.668
2/42 Mast Type--- Chainage 2974.668
3/2 Mast Type--- Chainage 3010.668
3/4 Mast Type--- Chainage 3046.668
3/6 Mast Type--- Chainage 3082.668
3/8 Mast Type--- Chainage 3114.168
3/10 Mast Type--- Chainage 3154.668
3/12 Mast Type--- Chainage 3195.168
3/14 Mast Type--- Chainage 3244.668
3/16 Mast Type--- Chainage 3298.668
3/18 Mast Type--- Chainage 3357.168
3/20 Mast Type--- Chainage 3411.168
3/22 Mast Type--- Chainage 3469.668
3/24 Mast Type--- Chainage 3523.668
3/26 Mast Type--- Chainage 3582.168
3/28 Mast Type--- Chainage 3636.168
3/30 Mast Type--- Chainage 3685.668
3/32 Mast Type--- Chainage 3726.168
3/34 Mast Type--- Chainage 3766.668
3/36 Mast Type--- Chainage 3816.168
3/38 Mast Type--- Chainage 3870.168
3/40 Mast Type--- Chainage 3928.668
3/42 Mast Type--- Chainage 3982.668
4/2 Mast Type--- Chainage 4036.668
4/4 Mast Type--- Chainage 4090.668
4/6 Mast Type--- Chainage 4149.168
4/8 Mast Type--- Chainage 4203.168
4/10 Mast Type--- Chainage 4257.168
4/12 Mast Type--- Chainage 4315.668
4/14 Mast Type--- Chainage 4365.168
4/16 Mast Type--- Chainage 4419.168
4/18 Mast Type--- Chainage 4473.168
4/20 Mast Type--- Chainage 4522.668
4/22 Mast Type--- Chainage 4576.668
4/24 Mast Type--- Chainage 4626.168
(58.5)
(58.5)
(58.5)
(54)
(58.5)
(54)
(54)
(63)
(58.5)
(45)
(40.5)
25
135
(40.5)
(40.5)
(36)
(31.5)
35
(22.5)
125
(36)
(27)
170
(31.5)
75
(40.5)
145
225
(49.5)
(54)
(58.5)
(49.5)
ACA
RCA/OPCA
BWA
LA
BM
CS
ACC CENTRE FOR UP MAIN
T.L. =594.000m Loc: 1/33 CH: 1647.168m
T.L. =603.000m Loc: 2/33 CH:2844.168m
ACC CENTRE FOR DN MAIN
T.L. =594.000m Loc: 1/34 CH: 1647.168m
T.L. =603.000m Loc: 2/34 CH:2844.168m
T.L. =1498.500m Loc: 1/5 CH: 1143.168m
T.L. = 1777.500m Loc: 4/15 CH: 4419.168m
T.L. =1498.500m Loc: 1/6 CH: 1143.168m
T.L. = 1777.500m Loc: 4/16 CH: 4419.168m
T.L. = 1129.500m Loc: 3/35 CH: 3816.168m
T.L. = 1129.500m Loc: 3/36 CH: 3816.168m
UIOL FOR UP LINE CH: 2767.668
IOL FOR DN LINE CH: 2767.668
SS
SINGENA AGRAHARA CH: 2767.668KM
T.L. =1197.000m Loc: 1/33 CH: 1647.168m
T.L. =1197.000m Loc: 1/34 CH: 1647.168m
232A BM CH: 2814.668
G OF PRO.SINGENA AGRAHARA ATGRADE (SUB-URBAN) STATION(Km.3.00)
PROPOSED SUBURBAN PLATFORM 205m x 6.2m (3 CAR)
TENTATIVE LOCATION OF DA SHOWN, OHE TO BE SUPPORTED FROM TRUSSES AND DISTANCE OF TRUSSES REQUIRED FROM STATION BUILDING CONTRACTOR.
F 100 LEVEL CH:2300 885.121 PRO.BSRP GRADIENT
LEVEL R 100 CH:2475 885.121 PRO.BSRP GRADIENT
R 100 R 70 CH:2625 886.621 PRO.BSRP GRADIENT
R 70 F 1200 CH:2850 889.815 PRO.BSRP GRADIENT
R 1200 F 150 CH:3150 886.064 PRO.BSRP GRADIENT
F 100 F 150 CH:3425 886.750 PRO.BSRP GRADIENT
F 150 LEVEL CH:3625 885.743 PRO.BSRP GRADIENT
LEVEL R 100 CH:3850 885.743 PRO.BSRP GRADIENT
R 100 R 100 CH:3900 886.523 PRO.BSRP GRADIENT
R 100 LEVEL CH:4625 893.512 PRO.BSRP GRADIENT
ACC CENTRE FOR UP MAIN
T.L =558.000m Loc: 2/25 CH: 2686.668m
T.L =571.500m Loc: 3/35 CH:3816.168m
ACC CENTRE FOR DN MAIN
T.L =558.000m Loc: 2/26 CH: 2686.668m
T.L =571.500m Loc: 3/36 CH:3816.168m
T.L. = 1179.000m Loc: 4/33 CH: 4815.168m
T.L. = 1179.000m Loc: 4/34 CH: 4815.168m
320A BM CH: 3690.668
IOL FOR UP LINE CH: 3726.168
UIOL FOR DN LINE CH: 3726.168
T.L. =1129.500m Loc: 2/25 CH: 2686.668m
T.L. =1129.500m Loc: 2/26 CH: 2686.668m
KM4
ACC CENTRE FOR UP MAIN
T.L =621.000m Loc: 3/27 CH: 3636.168m
T.L =558.000m Loc: 4/33 CH:4815.168m
ACC CENTRE FOR DN MAIN
T.L =621.000m Loc: 3/28 CH: 3636.168m
T.L =558.000m Loc: 4/34 CH:4815.168m
T.L. = 1777.500m Loc: 2/23 CH: 2641.668m
T.L. = 1710.000m Loc: 6/5 CH: 6129.168m
T.L. = 1777.500m Loc: 2/24 CH: 2641.668m
T.L. = 1710.000m Loc: 6/6 CH: 6129.168m
Refer Drawing No.
KRDD01-TDR-CR04-GEN-OCS-PGP-00003
UP LINE
PRO.HUSKUR SUBURBAN
DN LINE
PRO.CURVE NO.07 (UP&DN) LH
R = 1500 m, D = 1.16˚
A = 1°50'24.81"
TL = 24.09 m
CL = 48.17 m
TRL = 30 m
SE = 35mm
V = 90 kmph
PRO.CURVE NO.08 (UP&DN) RH
R = 1000 m, D = 1.75˚
A = 1°49'40.06"
TL = 15.89 m
CL = 32.06 m
TRL = 20 m
SE = 40mm
V = 70 kmph
PRO.CURVE NO.9 (UP&DN) RH
R = 1000 m, D = 1.75˚
A = 3°11'28.24"
TL = 27.85 m
CL = 55.68 m
TRL =20 m
SE = 40 mm
V = 70 kmph
PRO.CURVE NO.10 (UP&DN) LH
R = 1000 m, D = 1.75˚
A = 3°09.58"
TL = 27.96 m
CL = 55.91 m
TRL = 20 m
SE = 40 mm
V = 70 kmph

LEGEND

Sr. No.	DESCRIPTION	SYMBOL
1	OHE Span length in metres	(30)
2	Insulated Overlap (IOL)	
3	Un insulated Overlap (UIOL)	
4	Section Insulator	
5	Single Pole Isolator	
6	Double pole Isolator with Earth Heel	
7	Normal Mast with Single Cantilever Assembly at Viaduct	
8	Normal Mast with Multiple Cantilever Assembly at Viaduct	
9	Normal Mast with triple Cantilever Assembly at Viaduct	
10	Portal with Drop Arm and Single Cantilever Assembly at Viaduct	
11	Portal with Drop Arm and Double Cantilever Assembly at Viaduct	
12	Two Track Cantilever Assembly (TTC 5.50/8.0) at Viaduct	
13	Normal Mast with Single Cantilever Assembly at Grade	
14	Normal Mast with Multiple Cantilever Assembly at Grade	
15	Normal Mast with triple Cantilever Assembly at Grade	
16	Portal with Drop Arm and Single Cantilever Assembly at Grade	
17	Portal with Drop Arm and Double Cantilever Assembly at Grade	
18	Two Track Cantilever Assembly (TTC 5.50/8.0) at Grade	
19	Drop arm support with single cantilever (6"x6" DA)	
20	Drop arm support with Double cantilever (8"x6" DA)	
21	Drop arm support with triple cantilever (8"x6" DA)	
22	Anchoring stay with Fixed Termination-conv.	FTA
23	Anchoring Stay with Spring Termination Anchor	BWA
24	Versine	300
25	Anticreep Anchor	ACA
26	Anticreep Center	ACC
27	Tension Length	TL
28	Upright Details (Clearspan)	BFBU/GU(CS:xx)
29	Sub-Sectioning and Paralleling Post (SSP)	
30	Sub-Sectioning Post (SS)	
31	Sectioning and Paralleling Post (SP)	
32	Feeding Post (FP)	
33	Obligatory	OBL
34	To Be Decided	TBD
35	Interrupter(BM)	
36	Potential Transformer (PT)	
37	Lightning Arrestor (LA)	
38	Booster Transformer	
39	Spare	
40	Overhead Protection Conductor Anchor	OPCA
41	Return Conductor Anchor	RCA
42	Tramway OHE	
43	In-Run Wire	
44	Out-of Run Wire	
45	PTFE	
46	Overhead Protection Conductor	OPC
47	Return Conductor	RC
48	Cross feeder	
49	Slack feeder	
50	Full Feeding Jumper	G
51	Potential Equalising Jumper	F PE
52	In-Span Jumper	H
53	RC and OPC Support	
54	Track at Lower level (Corridor 2)	
55	Track at UP/DN line (Corridor 2)	
56	Track at UP & DN (Corridor 1)	

NOTES:-

1. ALL DIMENSIONS ARE IN METERS UNLESS NOTED OTHERWISE.
2. ALL DIMENSIONS ARE TO BE READ AND NOT TO BE MEASURED.
3. ALIGNMENT OF THE PEGGING PLAN HAS BEEN PREPARED ACCORDING TO THE ALIGNMENT DRAWING RECEIVED FROM GC / KRIDE DT. 22-06-2024.
4. OHE CHAINAGES OF THE PEGGING PLAN HAS BEEN TAKEN WITH REFERENCE TO THE OHE SPAN FROM THE PREVIOUS LOCATION.
5. SPANS ARE ROUNDED OFF TO NEAREST SINGLE DECIMAL.
6. MAST TYPE SHALL BE DEMARCATED IN PEGGING PLAN AFTER FINALIZATION OF OHE LOAD CALCULATIONS.
7. OHE HEIGHT CLEARANCE UNDER/OVER LINE STRUCTURE (HT. LINE X-ING ETC.) TO BE CONFIRMED OR SPECIAL CARE TO BE TAKEN BEFORE ERECTION FOR THAT PARTICULAR AREA WHEREVER REQUIRED.


PRO. HEELALIGE
RAJANKUNTE
KM3
KM4
1197.000m
1129.500m
ACC UP MAIN
594.000m
603.000m
558.000m
571.500m
621.000m
1179.000m
CH: 2+124.168
CH: 2+844.168
CH: 3+636.168
CH: 4+257.168
CH: 2+767.668
CH: 3+726.168
UIOL
IOL
PRO.SINGENA AGRAHARA (SUB-URBAN)
CH: 3+000.000
UP LINE
DN LINE
PRO.BOMMASANDRA SUBURBAN
PRO.HUSKUR SUBURBAN
LA
BM
ACC DN MAIN
SINGENA AGRAHARA CH: 2+767.668 KM

FOR TENDER PURPOSE ONLY

NOTES:
1. ALL DIMENSIONS ARE IN METER UNLESS MENTIONED OTHERWISE.
2. ALL DIMENSIONS ARE TO BE READ AND NOT TO BE MEASURED.
3. ANY DISCREPANCY IN THE DRAWING MUST BE BROUGHT TO THE NOTICE OF THE DESIGNER.
4. INTERFACE WITH OTHER DESIGN DISCIPLINE WILL BE DONE AS PER AVAILABILITY OF DETAILS.

REV	DATE	DESCRIPTION	Originator	Checked	Approved
R0	23-08-2024	First Submission	IA / SB	CK/NP	RK/SK

K RIDE

DM / ELE / KRIDE | Sr. DGM / ELE / KRIDE | AGM / ELE / KRIDE

Certified that this document has been designed and checked in accordance with GC Quality Assurance Plan.

EGIS-AECOM-WSP

Senior Discipline Expert | Chief Discipline Expert | Project Director

Certified that this document has been designed and checked in accordance with DDC Quality Assurance Plan.

Detailed Design Consultant for design of Traction & Auxiliary Power Supply and Distribution for BSRP

SYSTRA

SYSTRA MVA CONSULTING (INDIA) PVT. LTD.
10th and 11th Floor, Tower-B, 12/3, Vatika
Mindscapes, Mathura Road, NH2, Sector 27D,
Faridabad, Haryana 121013

Drawn		Checked:		Approved:	
I. Alam		D. Kalyan		R. Kapoor	
S. Bhati		N. Parmar		S. Kumar	

Client:

RAIL INFRASTRUCTURE DEVELOPMENT COMPANY (KARNATAKA) LIMITED

K RIDE

Project Title: Bengaluru Suburban Rail Project (BSRP)
(Detailed Design Consultant for design of Traction & Auxiliary Power Supply and Distribution for BSRP)

Corridor-4 (Pro.Heelalige -Rajankunte)

Drawing Title: OHE Pegging Plan for Main Line CH: 2+182.668Km to CH: 4+576.668Km

Project Stage: Tender Drawing

Paper Size: 297X4500
Discipline: Power Supply & Traction System
Date: 23/08/2024
Scale: NTS

Drawing no.: KRDD01-TDR-CR04-GEN-OCS-PGP-00002
Revision: R0