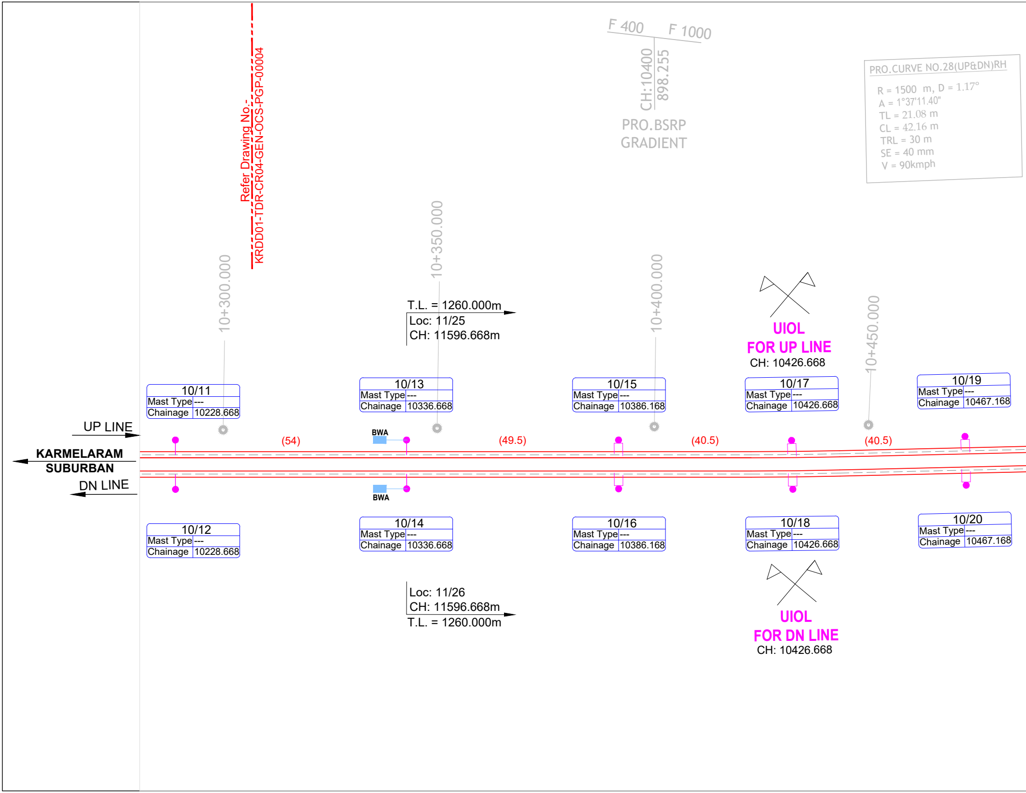
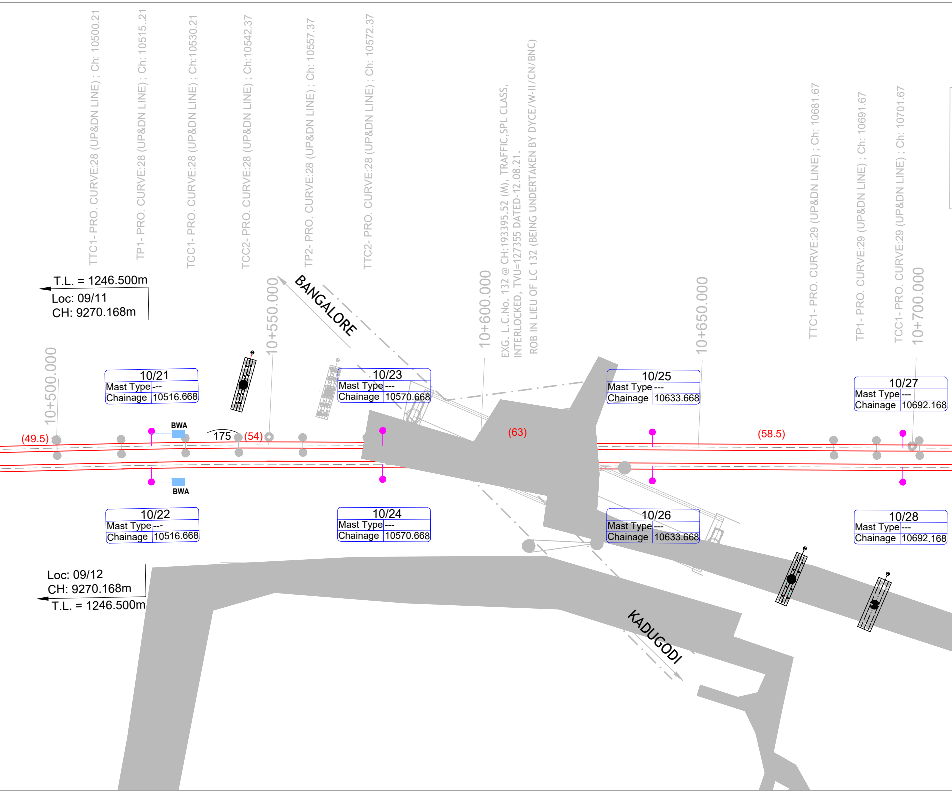
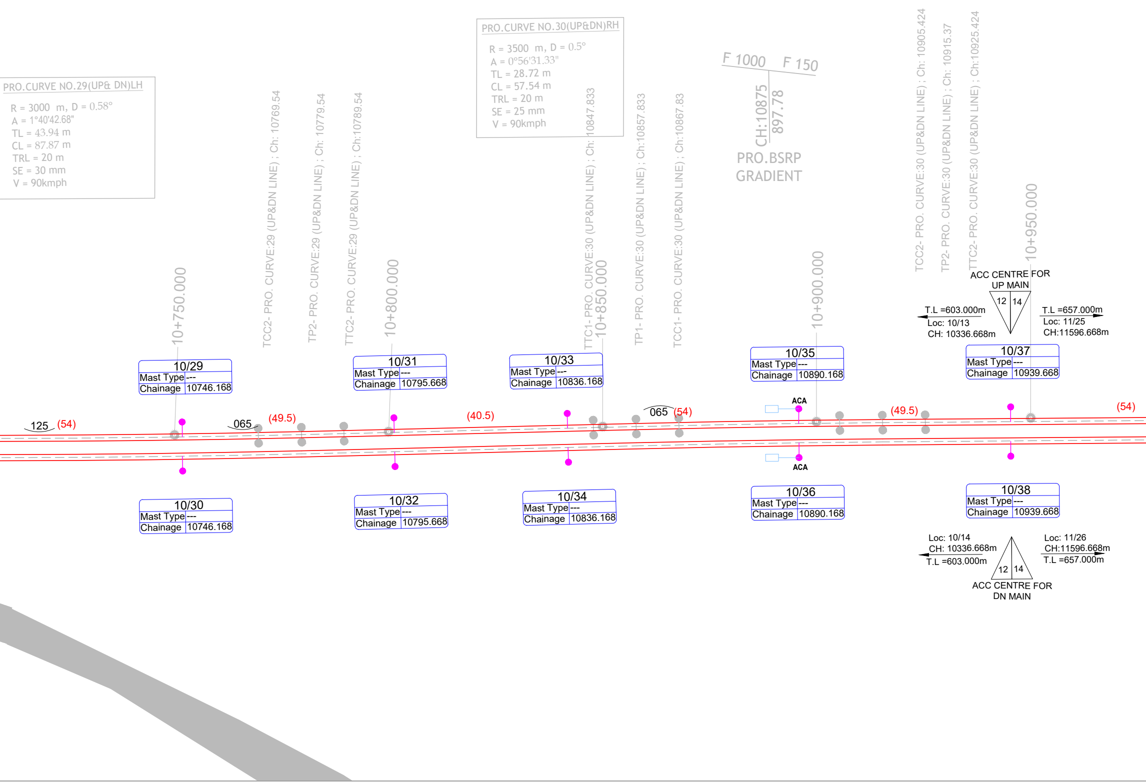
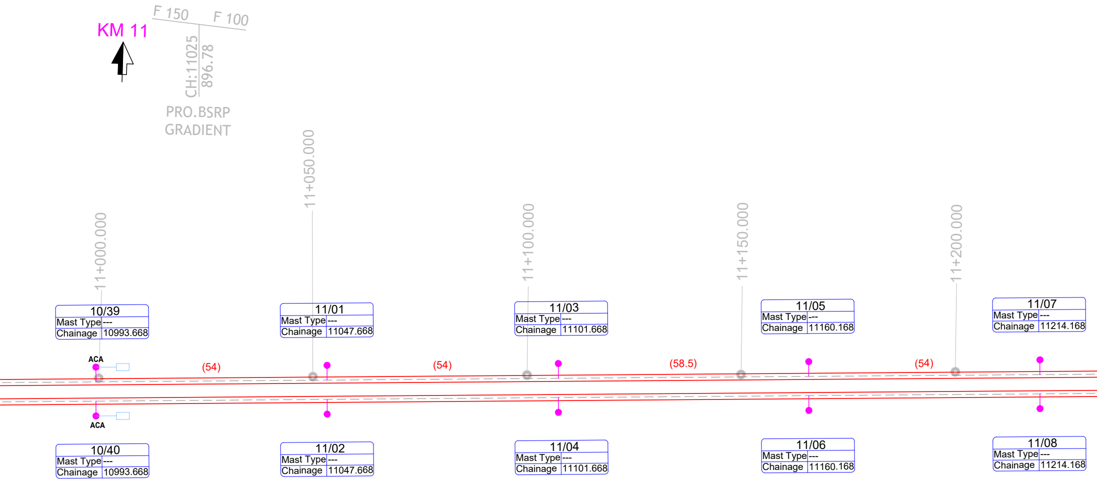
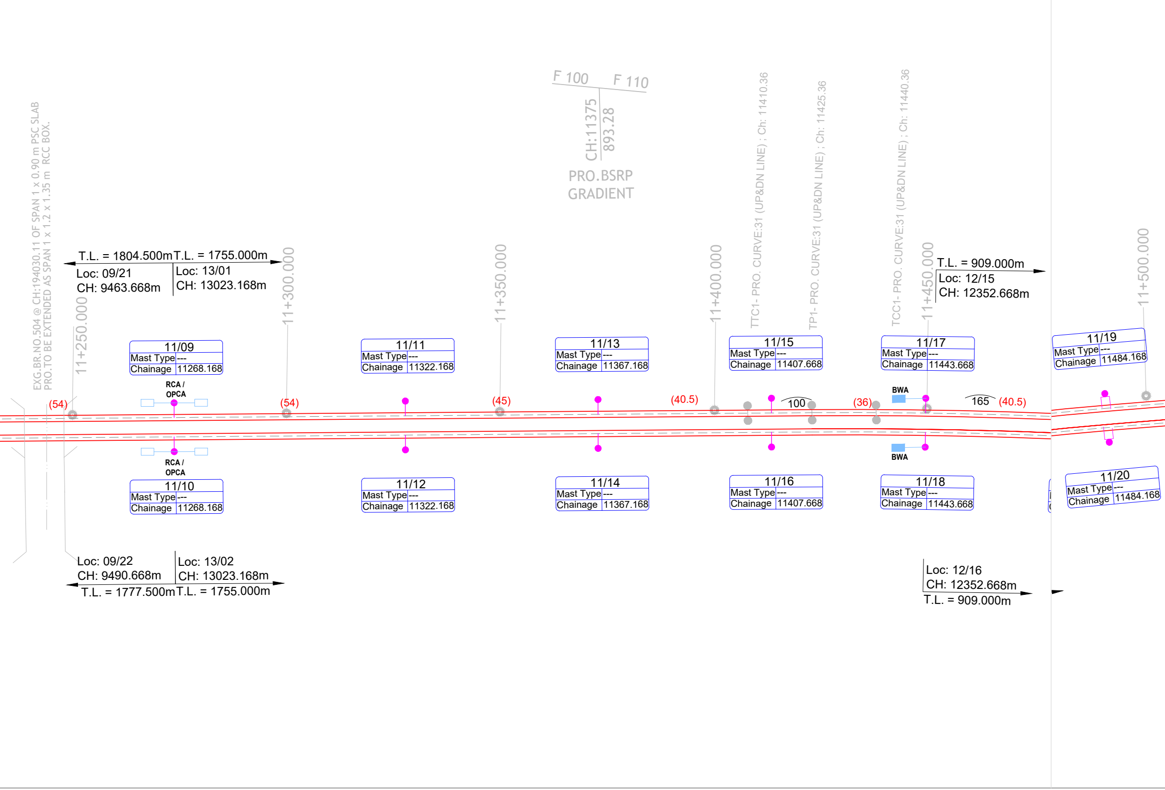
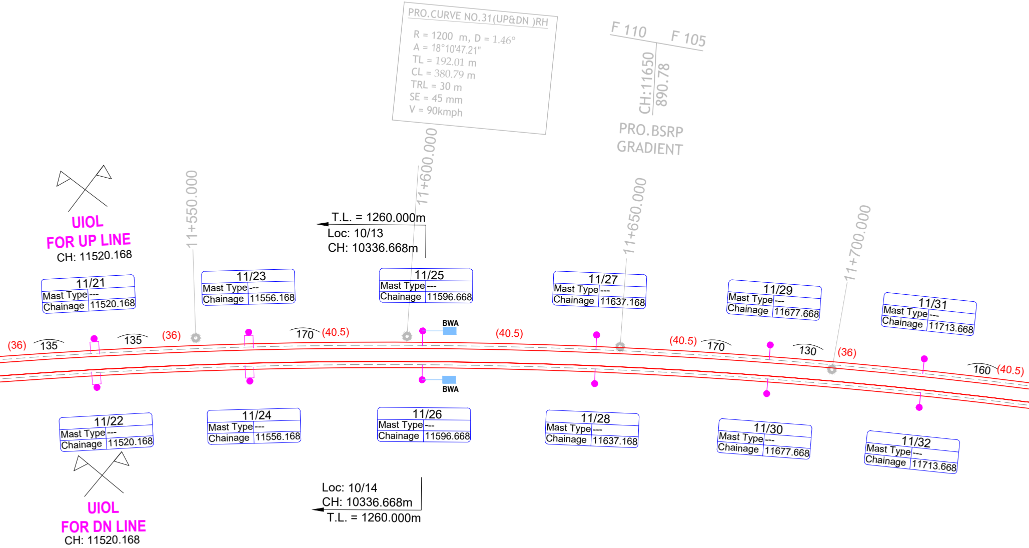

Refer Drawing No:-
KRDD01-TDR-CR04-GEN-OCS-PGP-00004
F 400
F 1000
CH:10400
898.255
PRO.BSRP
GRADIENT
PRO.CURVE NO.28(UP&DN)RH
R = 1500 m, D = 1.17°
A = 1°37'11.40"
TL = 21.08 m
CL = 42.16 m
TRL = 30 m
SE = 40 mm
V = 90kmph
10+300.000
10+350.000
10+400.000
10+450.000
T.L. = 1260.000m
Loc: 11/25
CH: 11596.668m
UIOL
FOR UP LINE
CH: 10426.668
10/11
Mast Type ---
Chainage 10228.668
10/13
Mast Type ---
Chainage 10336.668
10/15
Mast Type ---
Chainage 10386.168
10/17
Mast Type ---
Chainage 10426.668
10/19
Mast Type ---
Chainage 10467.168
UP LINE
KARMELARAM
SUBURBAN
DN LINE
BWA
(54)
(49.5)
(40.5)
(40.5)
BWA
10/12
Mast Type ---
Chainage 10228.668
10/14
Mast Type ---
Chainage 10336.668
10/16
Mast Type ---
Chainage 10386.168
10/18
Mast Type ---
Chainage 10426.668
10/20
Mast Type ---
Chainage 10467.168
Loc: 11/26
CH: 11596.668m
T.L. = 1260.000m
UIOL
FOR DN LINE
CH: 10426.668

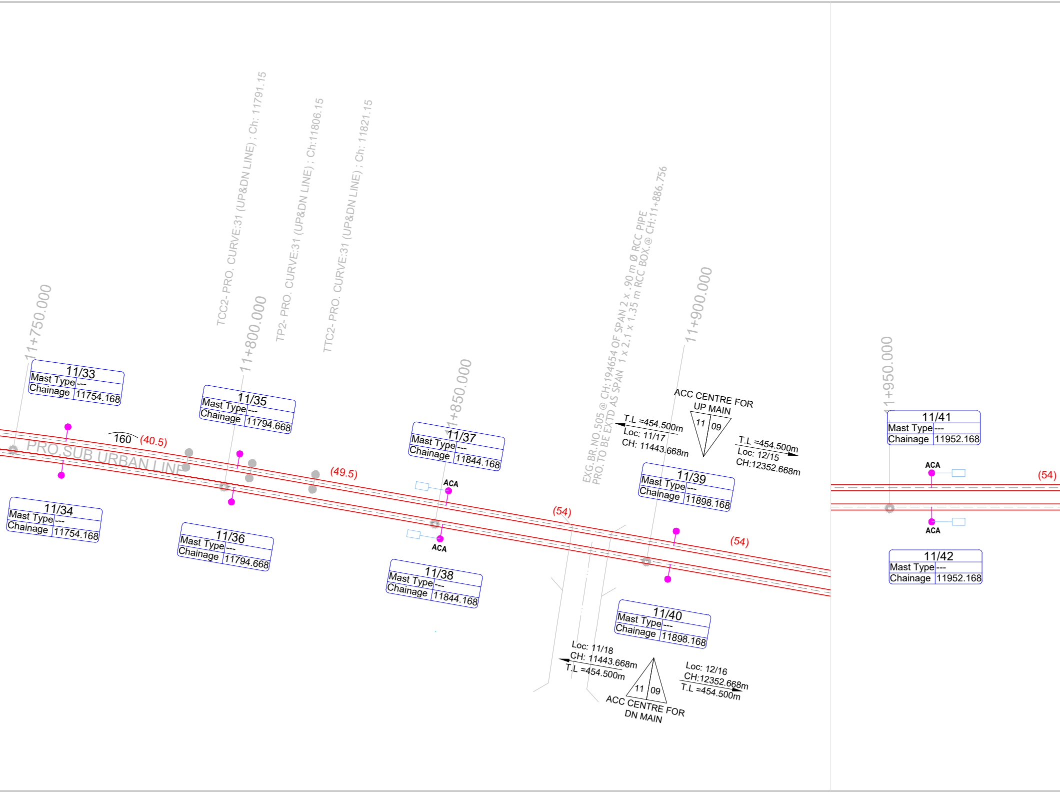

TTC1- PRO. CURVE:28 (UP&DN LINE) ; Ch: 10500.21
TP1- PRO. CURVE:28 (UP&DN LINE) ; Ch: 10515.21
TCC1- PRO. CURVE:28 (UP&DN LINE) ; Ch:10530.21
TCC2- PRO. CURVE:28 (UP&DN LINE) ; Ch:10542.37
TP2- PRO. CURVE:28 (UP&DN LINE) ; Ch: 10557.37
TTC2- PRO. CURVE:28 (UP&DN LINE) ; Ch: 10572.37
EXG. L.C.No. 132 @ CH:193395.52 (M), TRAFFIC,SPL CLASS,
INTERLOCKED, TVU=127355 DATED-12.08.21.
ROB IN LIEU OF LC 132 (BEING UNDERTAKEN BY DYCE/W-II/CN/BNC)
TTC1- PRO. CURVE:29 (UP&DN LINE) ; Ch: 10681.67
TP1- PRO. CURVE:29 (UP&DN LINE) ; Ch: 10691.67
TCC1- PRO. CURVE:29 (UP&DN LINE) ; Ch: 10701.67
T.L. = 1246.500m
Loc: 09/11
CH: 9270.168m
10+500.000
10+550.000
10+600.000
10+650.000
10+700.000
BANGALORE
KADUGODI
10/21
Mast Type ---
Chainage 10516.668
10/22
Mast Type ---
Chainage 10516.668
10/23
Mast Type ---
Chainage 10570.668
10/24
Mast Type ---
Chainage 10570.668
10/25
Mast Type ---
Chainage 10633.668
10/26
Mast Type ---
Chainage 10633.668
10/27
Mast Type ---
Chainage 10692.168
10/28
Mast Type ---
Chainage 10692.168
BWA
BWA
175
(49.5)
(54)
(63)
(58.5)
Loc: 09/12
CH: 9270.168m
T.L. = 1246.500m

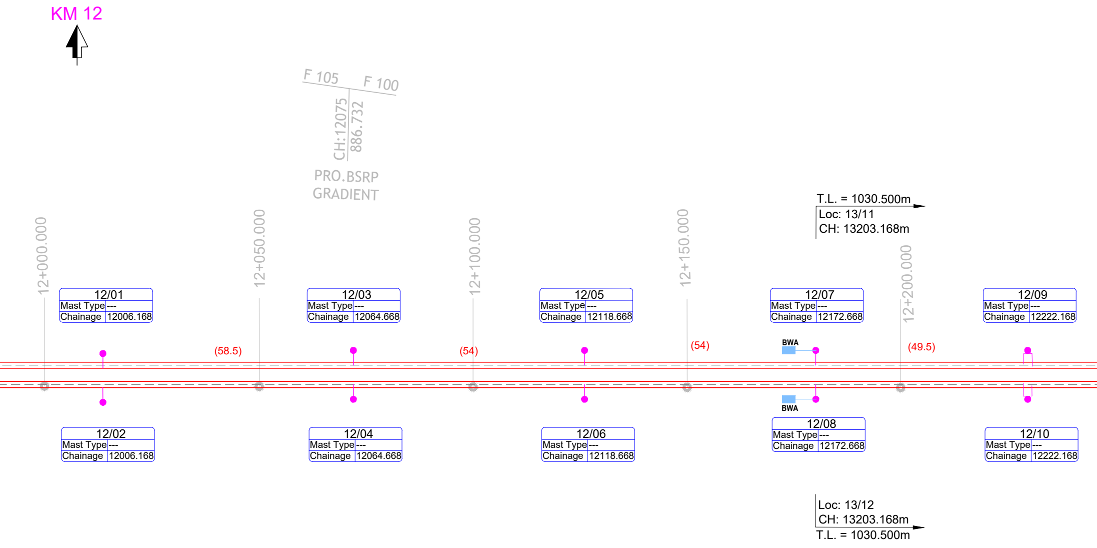

PRO.CURVE NO.29(UP& DN)LH
R = 3000 m, D = 0.58°
A = 1°40'42.68"
TL = 43.94 m
CL = 87.87 m
TRL = 20 m
SE = 30 mm
V = 90kmph
PRO.CURVE NO.30(UP&DN)RH
R = 3500 m, D = 0.5°
A = 0°56'31.33"
TL = 28.72 m
CL = 57.54 m
TRL = 20 m
SE = 25 mm
V = 90kmph
F 1000
F 150
CH:10875
897.78
PRO.BSRP
GRADIENT
10+750.000
TCC2- PRO. CURVE:29 (UP&DN LINE) ; Ch: 10769.54
TP2- PRO. CURVE:29 (UP&DN LINE) ; Ch: 10779.54
TTC2- PRO. CURVE:29 (UP&DN LINE) ; Ch:10789.54
10+800.000
TTC1- PRO. CURVE:30 (UP&DN LINE) ; Ch: 10847.833
10+850.000
TP1- PRO. CURVE:30 (UP&DN LINE) ; Ch:10857.833
TCC1- PRO. CURVE:30 (UP&DN LINE) ; Ch:10867.83
10+900.000
TCC2- PRO. CURVE:30 (UP&DN LINE) ; Ch: 10905.424
TP2- PRO. CURVE:30 (UP&DN LINE) ; Ch: 10915.37
TTC2- PRO. CURVE:30 (UP&DN LINE) ; Ch:10925.424
10+950.000
ACC CENTRE FOR
UP MAIN
12
14
T.L =603.000m
Loc: 10/13
CH: 10336.668m
T.L =657.000m
Loc: 11/25
CH:11596.668m
10/29
Mast Type ---
Chainage 10746.168
10/31
Mast Type ---
Chainage 10795.668
10/33
Mast Type ---
Chainage 10836.168
10/35
Mast Type ---
Chainage 10890.168
10/37
Mast Type ---
Chainage 10939.668
125
(54)
065
(49.5)
(40.5)
065
(54)
ACA
(49.5)
(54)
ACA
10/30
Mast Type ---
Chainage 10746.168
10/32
Mast Type ---
Chainage 10795.668
10/34
Mast Type ---
Chainage 10836.168
10/36
Mast Type ---
Chainage 10890.168
10/38
Mast Type ---
Chainage 10939.668
Loc: 10/14
CH: 10336.668m
T.L =603.000m
Loc: 11/26
CH:11596.668m
T.L =657.000m
12
14
ACC CENTRE FOR
DN MAIN

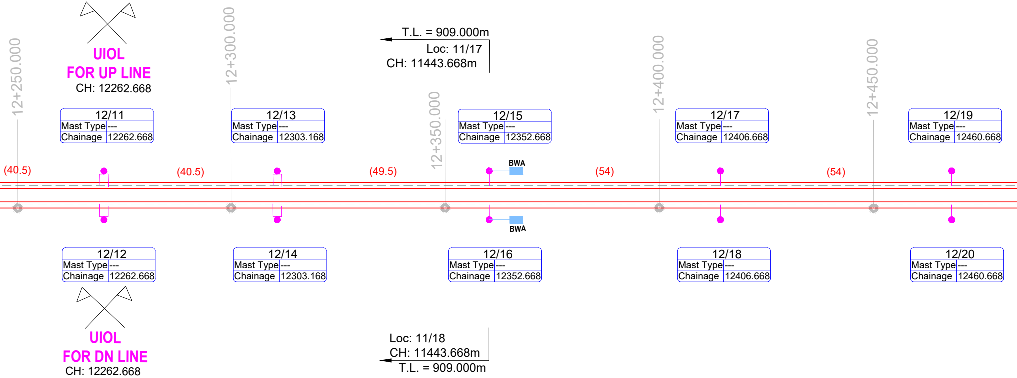

KM 11
F 150
F 100
CH:11025
896.78
PRO.BSRP
GRADIENT
11+000.000
11+050.000
11+100.000
11+150.000
11+200.000
10/39
Mast Type ---
Chainage 10993.668
11/01
Mast Type ---
Chainage 11047.668
11/03
Mast Type ---
Chainage 11101.668
11/05
Mast Type ---
Chainage 11160.168
11/07
Mast Type ---
Chainage 11214.168
ACA
(54)
(54)
(58.5)
(54)
ACA
10/40
Mast Type ---
Chainage 10993.668
11/02
Mast Type ---
Chainage 11047.668
11/04
Mast Type ---
Chainage 11101.668
11/06
Mast Type ---
Chainage 11160.168
11/08
Mast Type ---
Chainage 11214.168

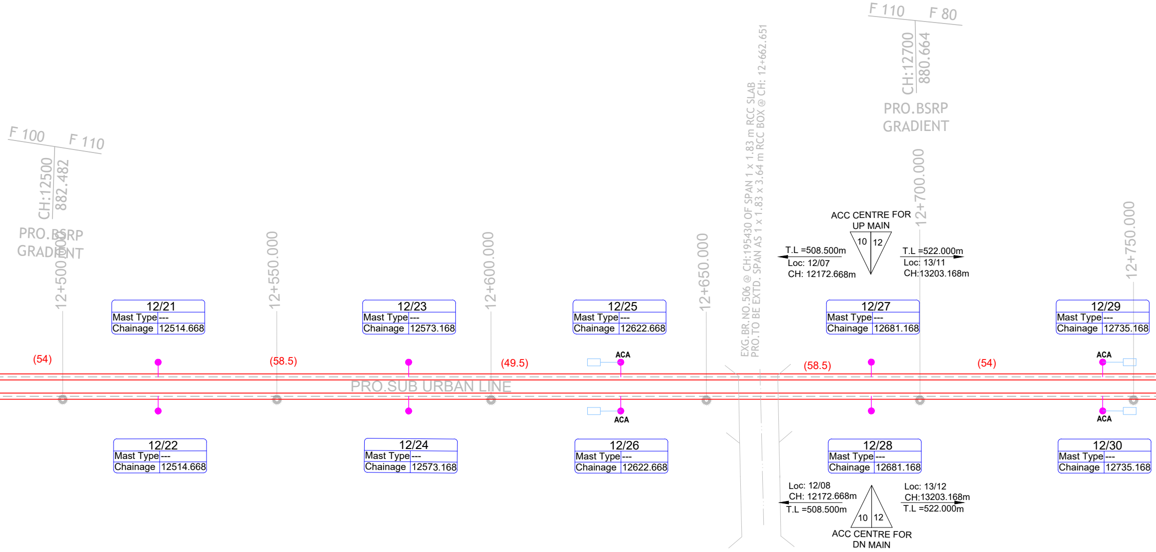

EXG.BR.NO.504 @ CH:194030.11 OF SPAN 1 x 0.90 m PSC SLAB
PRO.TO BE EXTENDED AS SPAN 1 x 1.2 x 1.35 m RCC BOX.
F 100
F 110
CH:11375
893.28
PRO.BSRP
GRADIENT
TTC1- PRO. CURVE:31 (UP&DN LINE) ; Ch: 11410.36
TP1- PRO. CURVE:31 (UP&DN LINE) ; Ch: 11425.36
TCC1- PRO. CURVE:31 (UP&DN LINE) ; Ch: 11440.36
T.L. = 1804.500m
T.L. = 1755.000m
Loc: 09/21
CH: 9463.668m
Loc: 13/01
CH: 13023.168m
T.L. = 909.000m
Loc: 12/15
CH: 12352.668m
11+250.000
11+300.000
11+350.000
11+400.000
11+450.000
11+500.000
11/09
Mast Type ---
Chainage 11268.168
11/11
Mast Type ---
Chainage 11322.168
11/13
Mast Type ---
Chainage 11367.168
11/15
Mast Type ---
Chainage 11407.668
11/17
Mast Type ---
Chainage 11443.668
11/19
Mast Type ---
Chainage 11484.168
RCA /
OPCA
BWA
(54)
(54)
(45)
(40.5)
100
(36)
165
(40.5)
RCA /
OPCA
BWA
11/10
Mast Type ---
Chainage 11268.168
11/12
Mast Type ---
Chainage 11322.168
11/14
Mast Type ---
Chainage 11367.168
11/16
Mast Type ---
Chainage 11407.668
11/18
Mast Type ---
Chainage 11443.668
11/20
Mast Type ---
Chainage 11484.168
Loc: 09/22
CH: 9490.668m
Loc: 13/02
CH: 13023.168m
T.L. = 1777.500m
T.L. = 1755.000m
Loc: 12/16
CH: 12352.668m
T.L. = 909.000m

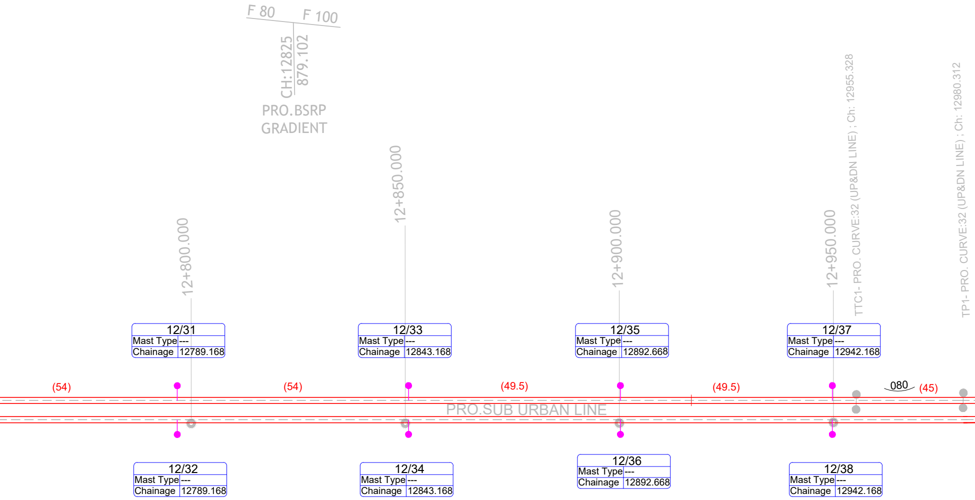

PRO.CURVE NO.31(UP&DN)RH
R = 1200 m, D = 1.46°
A = 18°10'47.21"
TL = 192.01 m
CL = 380.79 m
TRL = 30 m
SE = 45 mm
V = 90kmph
F 110
F 105
CH:11650
890.78
PRO.BSRP
GRADIENT
UIOL
FOR UP LINE
CH: 11520.168
11+550.000
11+600.000
11+650.000
11+700.000
T.L. = 1260.000m
Loc: 10/13
CH: 10336.668m
11/21
Mast Type ---
Chainage 11520.168
11/23
Mast Type ---
Chainage 11556.168
11/25
Mast Type ---
Chainage 11596.668
11/27
Mast Type ---
Chainage 11637.168
11/29
Mast Type ---
Chainage 11677.668
11/31
Mast Type ---
Chainage 11713.668
(36)
135
135
(36)
170
(40.5)
BWA
(40.5)
(40.5)
170
130
(36)
160
(40.5)
BWA
11/22
Mast Type ---
Chainage 11520.168
11/24
Mast Type ---
Chainage 11556.168
11/26
Mast Type ---
Chainage 11596.668
11/28
Mast Type ---
Chainage 11637.168
11/30
Mast Type ---
Chainage 11677.668
11/32
Mast Type ---
Chainage 11713.668
UIOL
FOR DN LINE
CH: 11520.168
Loc: 10/14
CH: 10336.668m
T.L. = 1260.000m

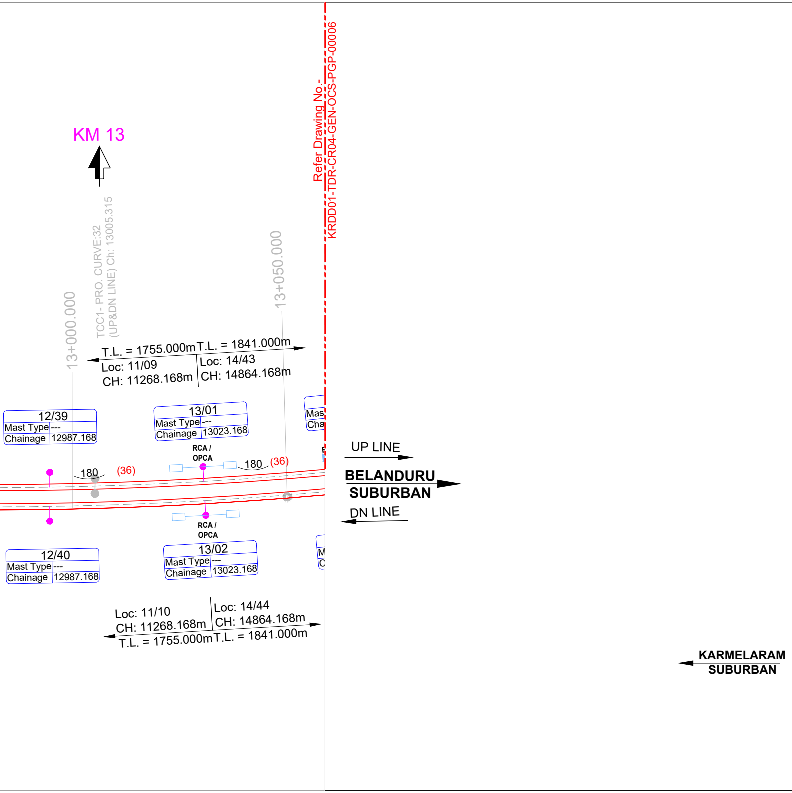

11+750.000
TCC2- PRO. CURVE:31 (UP&DN LINE) ; Ch: 11791.15
11+800.000
TP2- PRO. CURVE:31 (UP&DN LINE) ; Ch:11806.15
TTC2- PRO. CURVE:31 (UP&DN LINE) ; Ch: 11821.15
11+850.000
EXG.BR.NO.505 @ CH:194654 OF SPAN 2 x .90 m Ø RCC PIPE
PRO.TO BE EXTD AS SPAN 1 x 2.1 x 1.35 m RCC BOX.@ CH:11+886.756
11+900.000
11+950.000
11/33
Mast Type ---
Chainage 11754.168
11/34
Mast Type ---
Chainage 11754.168
11/35
Mast Type ---
Chainage 11794.668
11/36
Mast Type ---
Chainage 11794.668
11/37
Mast Type ---
Chainage 11844.168
11/38
Mast Type ---
Chainage 11844.168
11/39
Mast Type ---
Chainage 11898.168
11/40
Mast Type ---
Chainage 11898.168
11/41
Mast Type ---
Chainage 11952.168
11/42
Mast Type ---
Chainage 11952.168
160
(40.5)
(49.5)
(54)
(54)
(54)
PRO.SUB URBAN LINE
ACA
ACA
ACA
ACA
ACC CENTRE FOR
UP MAIN
11
09
T.L =454.500m
Loc: 11/17
CH: 11443.668m
T.L =454.500m
Loc: 12/15
CH:12352.668m
Loc: 11/18
CH: 11443.668m
T.L =454.500m
Loc: 12/16
CH:12352.668m
T.L =454.500m
11
09
ACC CENTRE FOR
DN MAIN

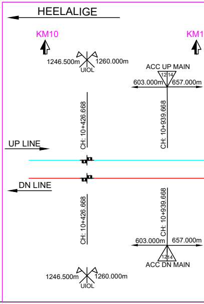

KM 12
F 105
F 100
CH:12075
886.732
PRO.BSRP
GRADIENT
T.L. = 1030.500m
Loc: 13/11
CH: 13203.168m
12+000.000
12+050.000
12+100.000
12+150.000
12+200.000
12/01
Mast Type ---
Chainage 12006.168
12/03
Mast Type ---
Chainage 12064.668
12/05
Mast Type ---
Chainage 12118.668
12/07
Mast Type ---
Chainage 12172.668
12/09
Mast Type ---
Chainage 12222.168
(58.5)
(54)
(54)
(49.5)
BWA
BWA
12/02
Mast Type ---
Chainage 12006.168
12/04
Mast Type ---
Chainage 12064.668
12/06
Mast Type ---
Chainage 12118.668
12/08
Mast Type ---
Chainage 12172.668
12/10
Mast Type ---
Chainage 12222.168
Loc: 13/12
CH: 13203.168m
T.L. = 1030.500m


UIOL
FOR UP LINE
CH: 12262.668
12+250.000
12+300.000
T.L. = 909.000m
Loc: 11/17
CH: 11443.668m
12+350.000
12+400.000
12+450.000
12/11
Mast Type ---
Chainage 12262.668
12/13
Mast Type ---
Chainage 12303.168
12/15
Mast Type ---
Chainage 12352.668
12/17
Mast Type ---
Chainage 12406.668
12/19
Mast Type ---
Chainage 12460.668
(40.5)
(40.5)
(49.5)
BWA
(54)
(54)
BWA
12/12
Mast Type ---
Chainage 12262.668
12/14
Mast Type ---
Chainage 12303.168
12/16
Mast Type ---
Chainage 12352.668
12/18
Mast Type ---
Chainage 12406.668
12/20
Mast Type ---
Chainage 12460.668
UIOL
FOR DN LINE
CH: 12262.668
Loc: 11/18
CH: 11443.668m
T.L. = 909.000m


F 100
F 110
CH:12500
882.482
PRO.BSRP
GRADIENT
12+500.000
12+550.000
12+600.000
12+650.000
EXG.BR.NO.506 @ CH:195430 OF SPAN 1 x 1.83 m RCC SLAB
PRO.TO BE EXTD. SPAN AS 1 x 1.83 x 3.64 m RCC BOX @ CH: 12+662.651
F 110
F 80
CH:12700
880.664
PRO.BSRP
GRADIENT
12+700.000
12+750.000
ACC CENTRE FOR
UP MAIN
10
12
T.L =508.500m
Loc: 12/07
CH: 12172.668m
T.L =522.000m
Loc: 13/11
CH:13203.168m
12/21
Mast Type ---
Chainage 12514.668
12/23
Mast Type ---
Chainage 12573.168
12/25
Mast Type ---
Chainage 12622.668
12/27
Mast Type ---
Chainage 12681.168
12/29
Mast Type ---
Chainage 12735.168
(54)
(58.5)
(49.5)
(58.5)
(54)
ACA
ACA
PRO.SUB URBAN LINE
ACA
ACA
12/22
Mast Type ---
Chainage 12514.668
12/24
Mast Type ---
Chainage 12573.168
12/26
Mast Type ---
Chainage 12622.668
12/28
Mast Type ---
Chainage 12681.168
12/30
Mast Type ---
Chainage 12735.168
Loc: 12/08
CH: 12172.668m
T.L =508.500m
Loc: 13/12
CH:13203.168m
T.L =522.000m
10
12
ACC CENTRE FOR
DN MAIN


F 80
F 100
CH:12825
879.102
PRO.BSRP
GRADIENT
12+800.000
12+850.000
12+900.000
12+950.000
TTC1- PRO. CURVE:32 (UP&DN LINE) ; Ch: 12955.328
TP1- PRO. CURVE:32 (UP&DN LINE) ; Ch: 12980.312
12/31
Mast Type ---
Chainage 12789.168
12/33
Mast Type ---
Chainage 12843.168
12/35
Mast Type ---
Chainage 12892.668
12/37
Mast Type ---
Chainage 12942.168
(54)
(54)
(49.5)
(49.5)
080
(45)
PRO.SUB URBAN LINE
12/32
Mast Type ---
Chainage 12789.168
12/34
Mast Type ---
Chainage 12843.168
12/36
Mast Type ---
Chainage 12892.668
12/38
Mast Type ---
Chainage 12942.168


KM 13
Refer Drawing No.-
KRDD01-TDR-CR04-GEN-OCS-PGP-00006
TCC1- PRO. CURVE:32
(UP&DN LINE) Ch: 13005.315
13+000.000
13+050.000
T.L. = 1755.000m
T.L. = 1841.000m
Loc: 11/09
CH: 11268.168m
Loc: 14/43
CH: 14864.168m
12/39
Mast Type ---
Chainage 12987.168
13/01
Mast Type ---
Chainage 13023.168
Mas
Cha
RCA / OPCA
180
(36)
180
(36)
RCA / OPCA
12/40
Mast Type ---
Chainage 12987.168
13/02
Mast Type ---
Chainage 13023.168
M
C
Loc: 11/10
CH: 11268.168m
Loc: 14/44
CH: 14864.168m
T.L. = 1755.000m
T.L. = 1841.000m
UP LINE
BELANDURU SUBURBAN
DN LINE
KARMELARAM SUBURBAN


HEELALIGE
KM10
KM1
1246.500m
1260.000m
UIOL
ACC UP MAIN
12
14
603.000m
657.000m
CH: 10+426.668
CH: 10+939.668
UP LINE
DN LINE
CH: 10+426.668
CH: 10+939.668
603.000m
657.000m
12
14
ACC DN MAIN
1246.500m
1260.000m
UIOL

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
29
30
31
32
33
34
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49
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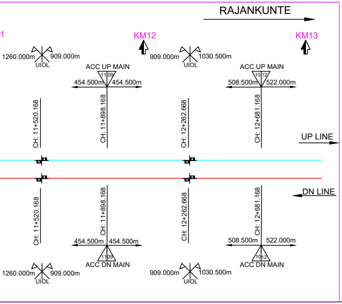
52
53
54
55


RAJANKUNTE
1
KM12
KM13
1260.000m
909.000m
UIOL
909.000m
1030.500m
UIOL
ACC UP MAIN
1109
454.500m
454.500m
ACC UP MAIN
1012
508.500m
522.000m
CH: 11+520.168
CH: 11+898.168
CH: 12+262.668
CH: 12+681.168
UP LINE
DN LINE
CH: 11+520.168
CH: 11+898.168
CH: 12+262.668
CH: 12+681.168
454.500m
454.500m
508.500m
522.000m
1109
ACC DN MAIN
1012
ACC DN MAIN
1260.000m
909.000m
UIOL
909.000m
1030.500m
UIOL

BELANDURU SUBURBAN

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	30-08-2024	First Submission	KD / SB	CK/NP	RK/SK

DM / ELE /

Upright Details (Clearspan)	BFBU/GU(CS:xx)
Sub-Sectioning and Paralleling Post (SSP)	⊠
Sub-Sectioning Post (SS)	▽
Sectioning and Paralleling Post (SP)	⊠
Feeding Post (FP)	⇧
Obligatory	OBL
To Be Decided	TBD
Interrupter(BM)	■ ⊘
Potential Transformer (PT)	—◎—▶
Lightning Arrestor (LA)	⏚—◁—●
Booster Transformer	ꝏ
Spare	■
Overhead Protection Conductor Anchor	OPCA
Return Conductor Anchor	RCA
Tramway OHE	—o—o—o—o—o—
In-Run Wire	——
Out-of Run Wire	- - - - - - - - -
PTFE	PTFE
Overhead Protection Conductor	——OPC——
Return Conductor	——RC——
Cross feeder	——
Slack feeder	——
Full Feeding Jumper	Ⓖ
Potential Equalising Jumper	Ⓕ (PE)
In-Span Jumper	Ⓗ
RC and OPC Support	▲
Track at UP/DN line (Corridor 2)	——
Track on Viaduct	— — — —

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 SPANS 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.
8. OHE LOCATIONS IN THE ELEVATED SECTION WILL BE FINALIZED AFTER RECEIVING OF PIER SPAN ARRANGEMENT.

FOR TENDER PURPOSE ONLY

K RIDE

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

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
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Faridabad, Haryana 121013

Drawn		Checked:		Approved:	
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S. Bhati		N. Parmar		S. Kumar	Satish 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 (Heelalige -Rajankunte)

Drawing Title:	Project Stage:
OHE Pegging Plan for Main Line CH: 10+300.00Km to CH: 13+050.00Km	Tender Drawing

Paper Size:	Discipline:	Date:	Scale:
297X5000	Power Supply & Traction System	30/08/2024	NTS

Drawing no.:	Revision:
KRDD01-TDR-CR04-GEN-OCS-PGP-00005	R0