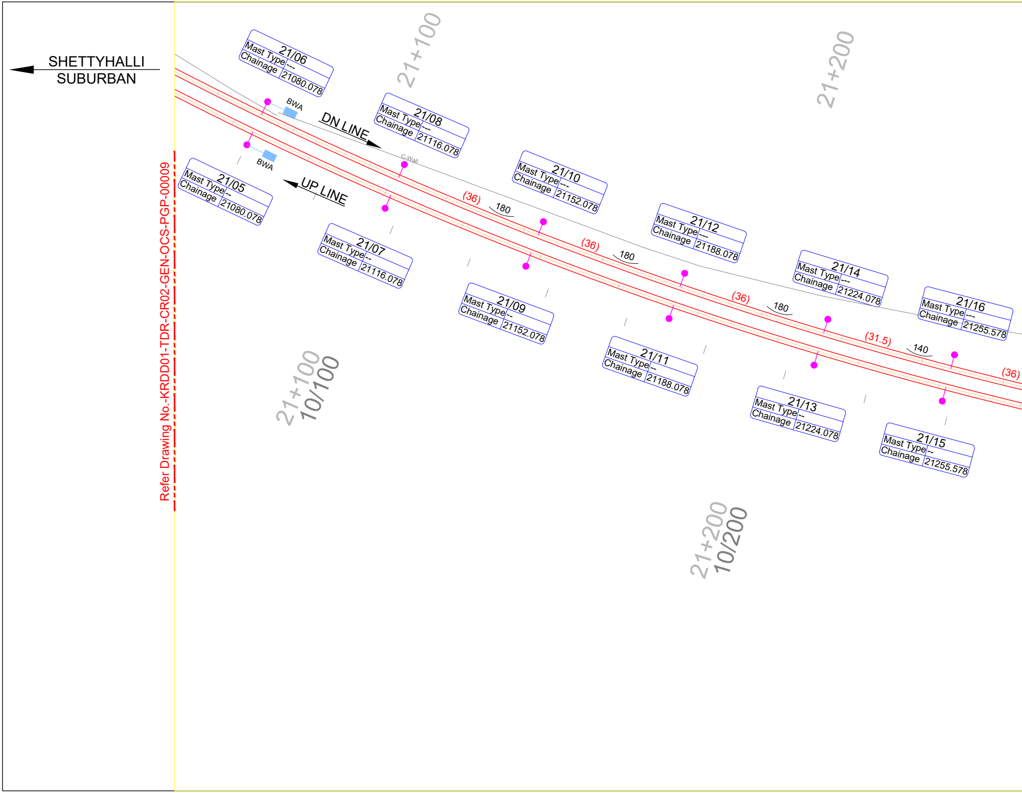
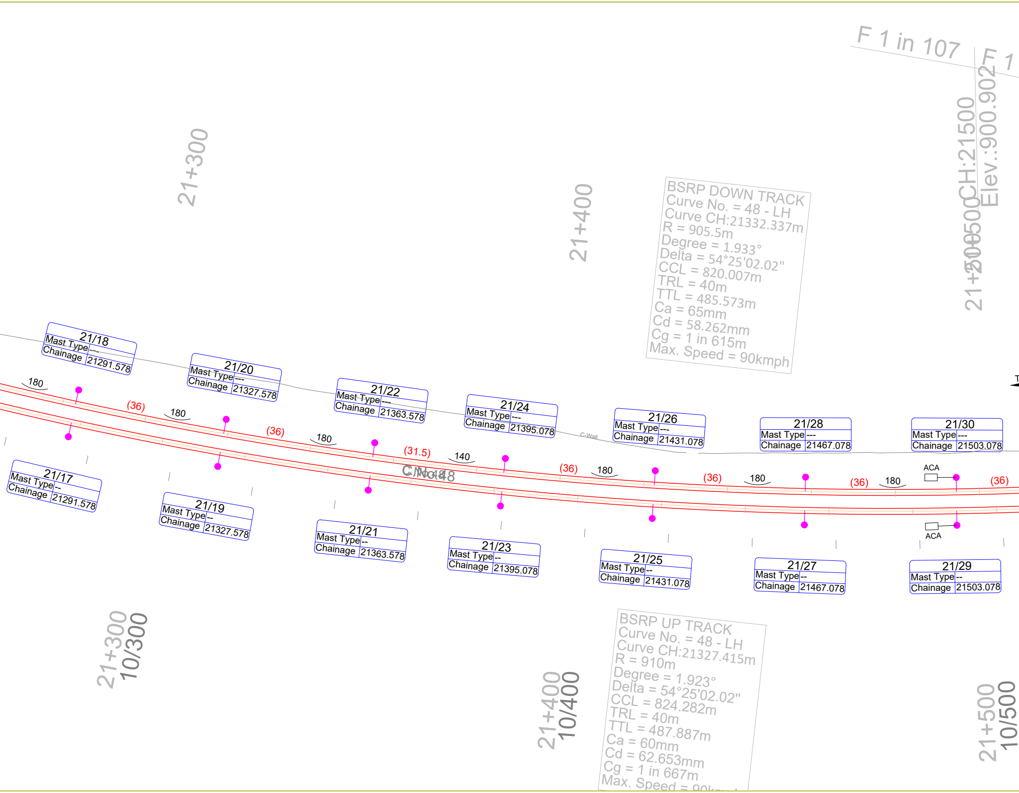
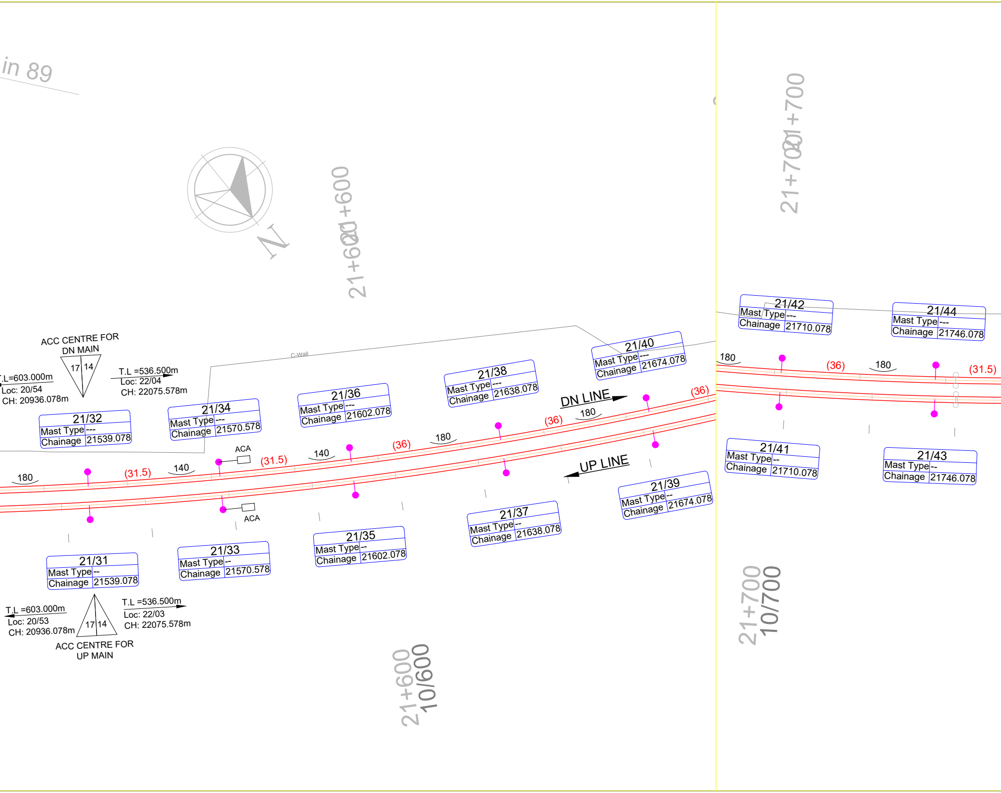
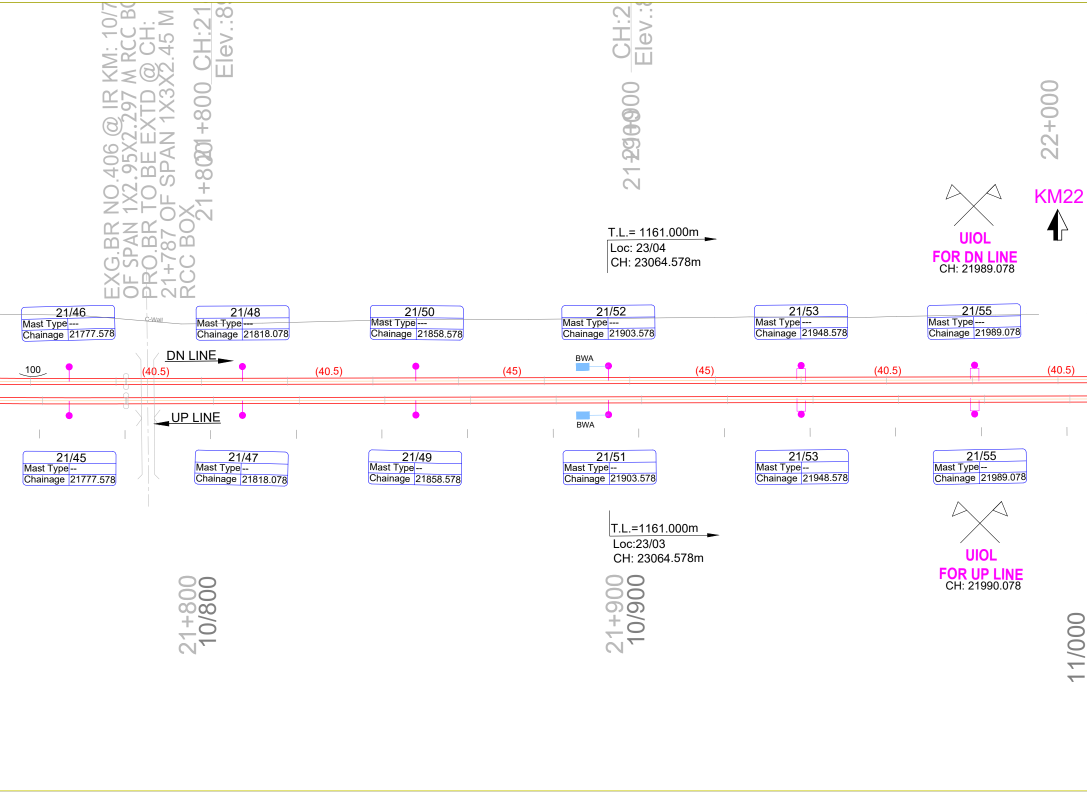
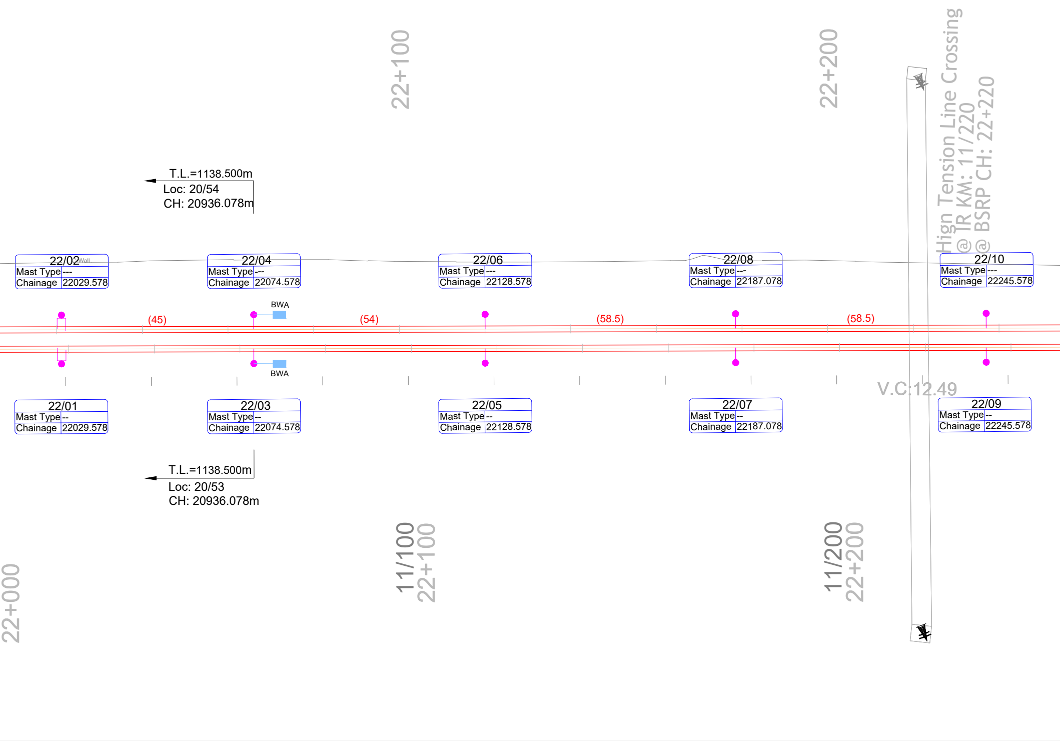
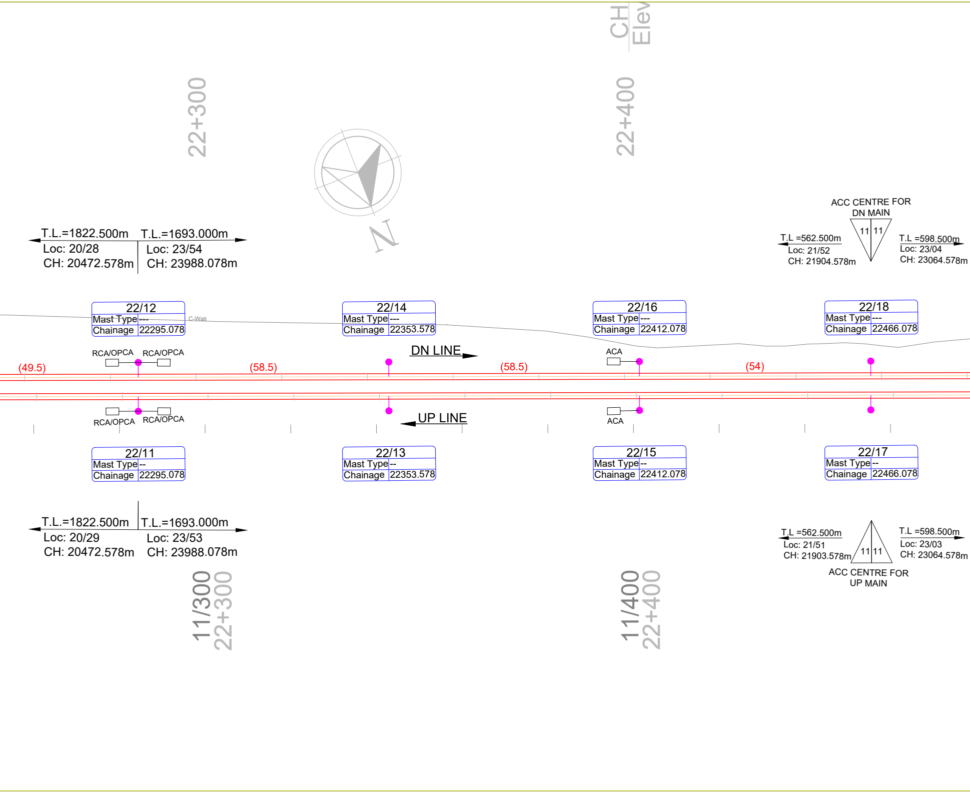

SHETTYHALLI
SUBURBAN
Refer Drawing No.-KRDD01-TDR-CR02-GEN-OCS-PGP-00009
21+100
21+200
21+100
10/100
21+200
10/200
DN LINE
UP LINE
BWA
BWA
C-Wall
21/06
Mast Type ---
Chainage 21080.078
21/05
Mast Type --
Chainage 21080.078
21/08
Mast Type ---
Chainage 21116.078
21/07
Mast Type --
Chainage 21116.078
21/10
Mast Type ---
Chainage 21152.078
21/09
Mast Type --
Chainage 21152.078
21/12
Mast Type ---
Chainage 21188.078
21/11
Mast Type --
Chainage 21188.078
21/14
Mast Type ---
Chainage 21224.078
21/13
Mast Type --
Chainage 21224.078
21/16
Mast Type ---
Chainage 21255.578
21/15
Mast Type --
Chainage 21255.578
(36)
180
(36)
180
(36)
180
(31.5)
140
(36)

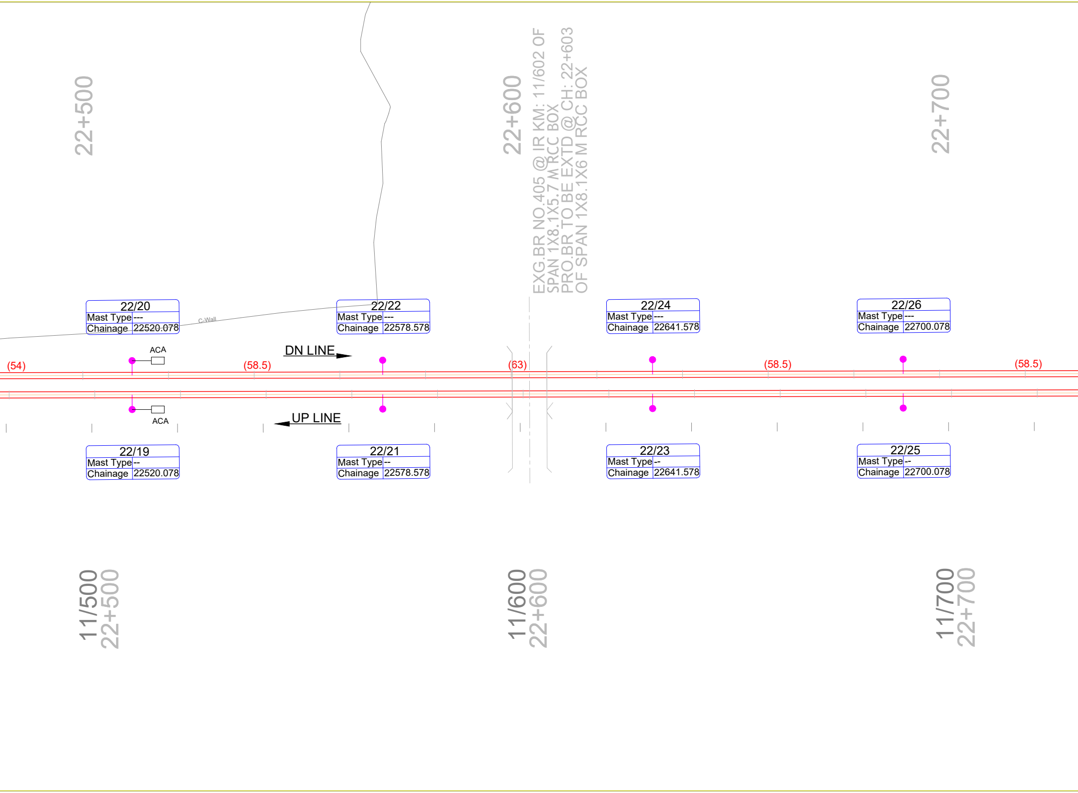

F 1 in 107
F 1
CH:21500
Elev.:900.902
21+500
21+300
21+400
BSRP DOWN TRACK
Curve No. = 48 - LH
Curve CH:21332.337m
R = 905.5m
Degree = 1.933°
Delta = 54°25'02.02"
CCL = 820.007m
TRL = 40m
TTL = 485.573m
Ca = 65mm
Cd = 58.262mm
Cg = 1 in 615m
Max. Speed = 90kmph
21/18 Mast Type --- Chainage 21291.578
21/20 Mast Type --- Chainage 21327.578
21/22 Mast Type --- Chainage 21363.578
21/24 Mast Type --- Chainage 21395.078
21/26 Mast Type --- Chainage 21431.078
21/28 Mast Type --- Chainage 21467.078
21/30 Mast Type --- Chainage 21503.078
C-Wall
180
(36)
180
(36)
180
(31.5)
140
(36)
180
(36)
180
(36)
180
(36)
ACA
ACA
C.No.48
21/17 Mast Type -- Chainage 21291.578
21/19 Mast Type -- Chainage 21327.578
21/21 Mast Type -- Chainage 21363.578
21/23 Mast Type -- Chainage 21395.078
21/25 Mast Type -- Chainage 21431.078
21/27 Mast Type -- Chainage 21467.078
21/29 Mast Type -- Chainage 21503.078
21+300
10/300
21+400
10/400
21+500
10/500
BSRP UP TRACK
Curve No. = 48 - LH
Curve CH:21327.415m
R = 910m
Degree = 1.923°
Delta = 54°25'02.02"
CCL = 824.282m
TRL = 40m
TTL = 487.887m
Ca = 60mm
Cd = 62.653mm
Cg = 1 in 667m
Max. Speed = 90k

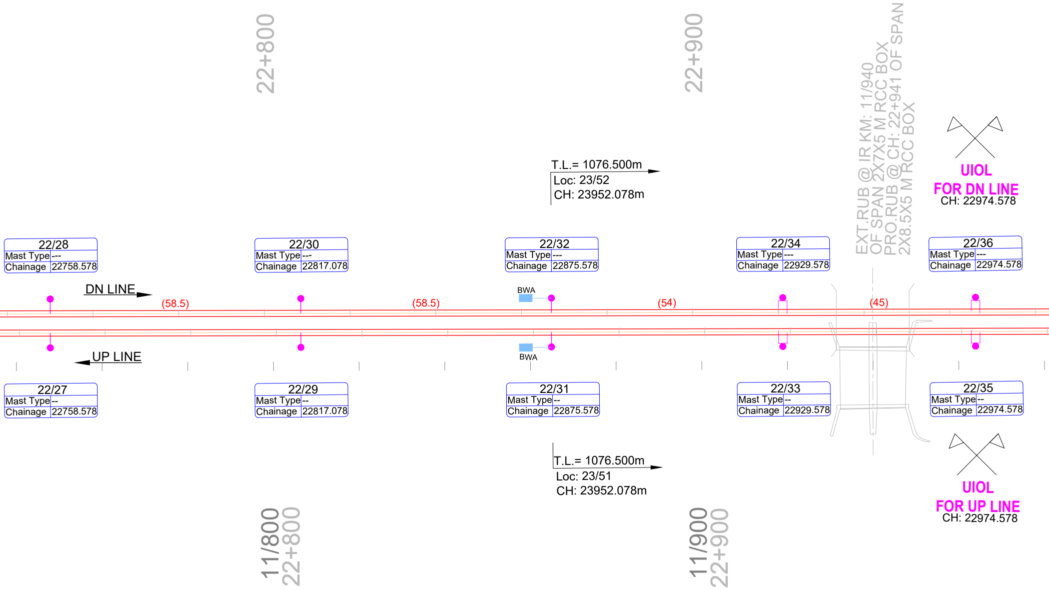

in 89
N
21+600
21+700
ACC CENTRE FOR DN MAIN
17 14
T.L=603.000m
Loc: 20/54
CH: 20936.078m
T.L =536.500m
Loc: 22/04
CH: 22075.578m
C-Wall
21/32
Mast Type ---
Chainage 21539.078
21/34
Mast Type ---
Chainage 21570.578
21/36
Mast Type ---
Chainage 21602.078
21/38
Mast Type ---
Chainage 21638.078
21/40
Mast Type ---
Chainage 21674.078
21/42
Mast Type ---
Chainage 21710.078
21/44
Mast Type ---
Chainage 21746.078
DN LINE
UP LINE
180
(31.5)
140
ACA
(31.5)
140
(36)
180
(36)
180
(36)
180
(36)
180
(31.5)
ACA
21/31
Mast Type --
Chainage 21539.078
21/33
Mast Type --
Chainage 21570.578
21/35
Mast Type --
Chainage 21602.078
21/37
Mast Type --
Chainage 21638.078
21/39
Mast Type --
Chainage 21674.078
21/41
Mast Type --
Chainage 21710.078
21/43
Mast Type --
Chainage 21746.078
T.L =603.000m
Loc: 20/53
CH: 20936.078m
17 14
T.L =536.500m
Loc: 22/03
CH: 22075.578m
ACC CENTRE FOR UP MAIN
21+600
10/600
21+700
10/700

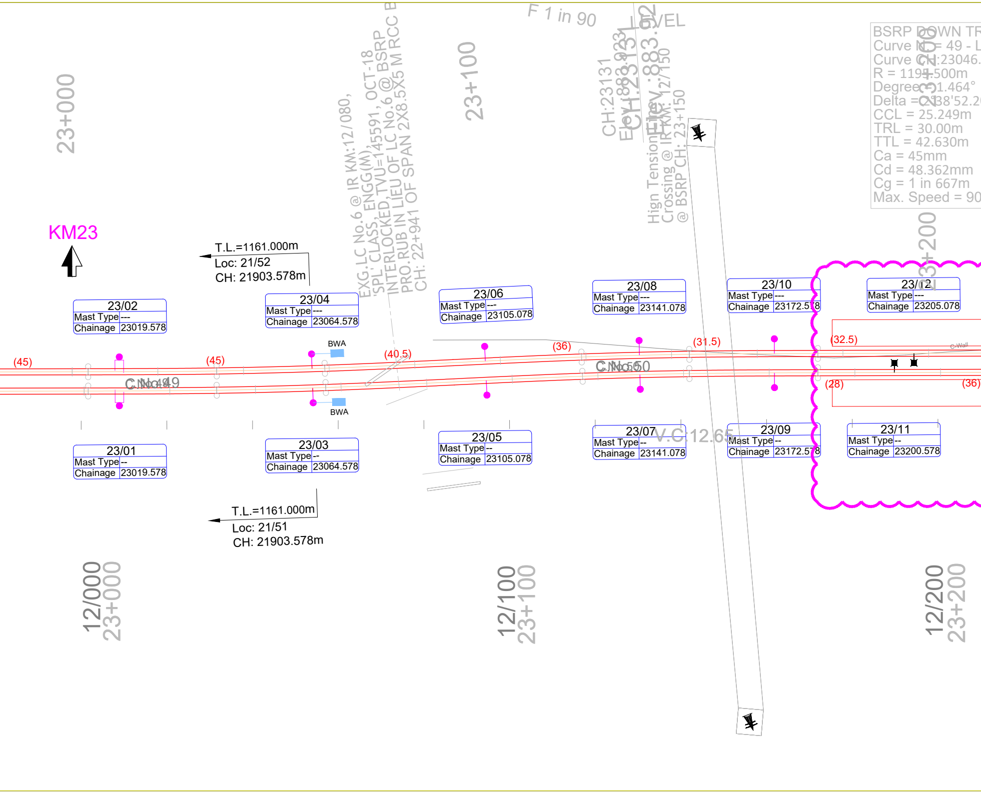

EXG.BR NO.406 @ IR KM: 10/7
OF SPAN 1X2.95X2.297 M RCC BO
PRO.BR TO BE EXTD @ CH:
21+787 OF SPAN 1X3X2.45 M
RCC BOX
21+800 CH:21
Elev.:8
21+800
CH:2
Elev.:
21+900
22+000
KM22
T.L.= 1161.000m
Loc: 23/04
CH: 23064.578m
UIOL
FOR DN LINE
CH: 21989.078
21/46
Mast Type ---
Chainage 21777.578
21/48
Mast Type ---
Chainage 21818.078
21/50
Mast Type ---
Chainage 21858.578
21/52
Mast Type ---
Chainage 21903.578
21/53
Mast Type ---
Chainage 21948.578
21/55
Mast Type ---
Chainage 21989.078
C-Wall
DN LINE
100
(40.5)
(40.5)
(45)
BWA
(45)
(40.5)
(40.5)
BWA
UP LINE
21/45
Mast Type --
Chainage 21777.578
21/47
Mast Type --
Chainage 21818.078
21/49
Mast Type --
Chainage 21858.578
21/51
Mast Type --
Chainage 21903.578
21/53
Mast Type --
Chainage 21948.578
21/55
Mast Type --
Chainage 21989.078
T.L.=1161.000m
Loc:23/03
CH: 23064.578m
UIOL
FOR UP LINE
CH: 21990.078
21+800
10/800
21+900
10/900
11/000

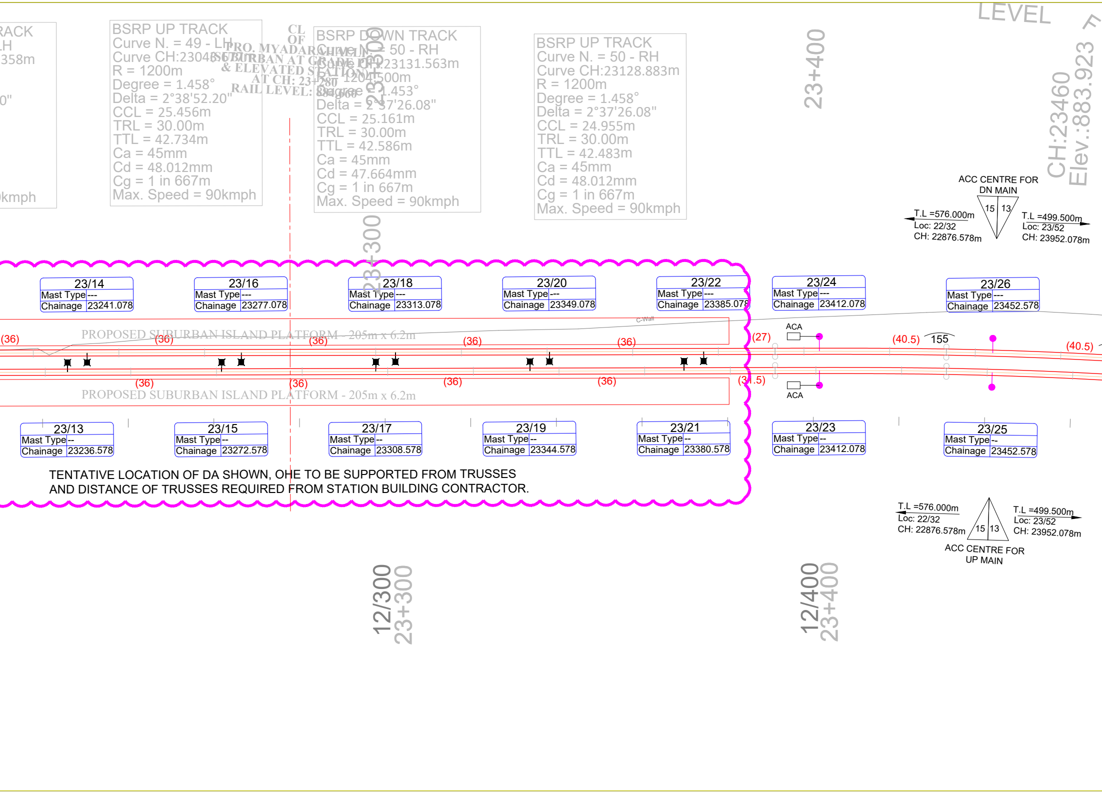

22+100
22+200
Hign Tension Line Crossing
@ TR KM: 11/220
@ BSRP CH: 22+220
T.L.=1138.500m
Loc: 20/54
CH: 20936.078m
22/02
Wall
Mast Type ---
Chainage 22029.578
22/04
Mast Type ---
Chainage 22074.578
22/06
Mast Type ---
Chainage 22128.578
22/08
Mast Type ---
Chainage 22187.078
22/10
Mast Type ---
Chainage 22245.578
BWA
(45)
(54)
(58.5)
(58.5)
BWA
V.C:12.49
22/01
Mast Type --
Chainage 22029.578
22/03
Mast Type --
Chainage 22074.578
22/05
Mast Type --
Chainage 22128.578
22/07
Mast Type --
Chainage 22187.078
22/09
Mast Type --
Chainage 22245.578
T.L.=1138.500m
Loc: 20/53
CH: 20936.078m
22+000
11/100
22+100
11/200
22+200


CH
Elev
22+300
22+400
N
T.L.=1822.500m
Loc: 20/28
CH: 20472.578m
T.L.=1693.000m
Loc: 23/54
CH: 23988.078m
ACC CENTRE FOR
DN MAIN
11
11
T.L =562.500m
Loc: 21/52
CH: 21904.578m
T.L =598.500m
Loc: 23/04
CH: 23064.578m
22/12
Mast Type ---
Chainage 22295.078
C-Wall
22/14
Mast Type ---
Chainage 22353.578
22/16
Mast Type ---
Chainage 22412.078
22/18
Mast Type ---
Chainage 22466.078
RCA/OPCA
RCA/OPCA
DN LINE
ACA
(49.5)
(58.5)
(58.5)
(54)
RCA/OPCA
RCA/OPCA
UP LINE
ACA
22/11
Mast Type --
Chainage 22295.078
22/13
Mast Type --
Chainage 22353.578
22/15
Mast Type --
Chainage 22412.078
22/17
Mast Type --
Chainage 22466.078
T.L.=1822.500m
Loc: 20/29
CH: 20472.578m
T.L.=1693.000m
Loc: 23/53
CH: 23988.078m
T.L =562.500m
Loc: 21/51
CH: 21903.578m
11
11
T.L =598.500m
Loc: 23/03
CH: 23064.578m
ACC CENTRE FOR
UP MAIN
11/300
22+300
11/400
22+400


22+500
22+600
22+700
EXG.BR NO.405 @ IR KM: 11/602 OF
SPAN 1X8.1X5.7 M RCC BOX
PRO.BR TO BE EXTD @ CH: 22+603
OF SPAN 1X8.1X6 M RCC BOX
22/20
Mast Type ---
Chainage 22520.078
C-Wall
22/22
Mast Type ---
Chainage 22578.578
22/24
Mast Type ---
Chainage 22641.578
22/26
Mast Type ---
Chainage 22700.078
ACA
DN LINE
(54)
(58.5)
(63)
(58.5)
(58.5)
UP LINE
ACA
22/19
Mast Type --
Chainage 22520.078
22/21
Mast Type --
Chainage 22578.578
22/23
Mast Type --
Chainage 22641.578
22/25
Mast Type --
Chainage 22700.078
11/500
22+500
11/600
22+600
11/700
22+700

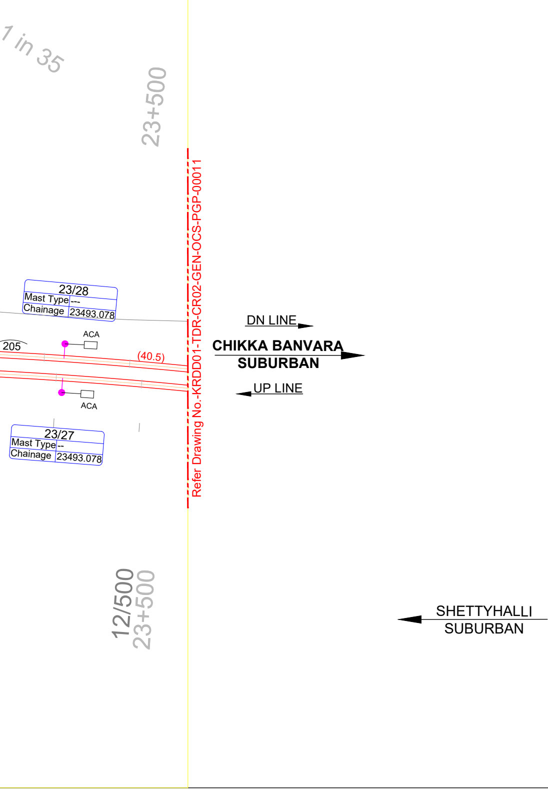

22+800
22+900
EXT.RUB @ IR KM: 11/940
OF SPAN 2X7X5 M RCC BOX
PRO.RUB @ CH: 22+941 OF SPAN
2X8.5X5 M RCC BOX
T.L.= 1076.500m
Loc: 23/52
CH: 23952.078m
UIOL
FOR DN LINE
CH: 22974.578
22/28
Mast Type ---
Chainage 22758.578
22/30
Mast Type ---
Chainage 22817.078
22/32
Mast Type ---
Chainage 22875.578
22/34
Mast Type ---
Chainage 22929.578
22/36
Mast Type ---
Chainage 22974.578
DN LINE
(58.5)
(58.5)
BWA
(54)
(45)
BWA
UP LINE
22/27
Mast Type --
Chainage 22758.578
22/29
Mast Type --
Chainage 22817.078
22/31
Mast Type --
Chainage 22875.578
22/33
Mast Type --
Chainage 22929.578
22/35
Mast Type --
Chainage 22974.578
T.L.= 1076.500m
Loc: 23/51
CH: 23952.078m
UIOL
FOR UP LINE
CH: 22974.578
11/800
22+800
11/900
22+900


23+000
KM23
T.L.=1161.000m
Loc: 21/52
CH: 21903.578m
EXG.LC No.6 @ IR KM:12/080,
'SPL' CLASS, ENGG(M), 145591, OCT-18
INTERLOCKED, TVU=145591, OCT-18
PRO.RUB IN LIEU OF LC No.6 @ BSRP
CH: 22+941 OF SPAN 2X8.5X5 M RCC B
23+100
F 1 in 90
LEVEL
CH:23131
Elev.:883.923
CH.:23131
Elev.:883.92
IR KM: 12/150
Hign Tension
Crossing @ IR KM: 12/150
@ BSRP CH: 23+150
BSRP DOWN TR
Curve No = 49 - L
Curve CH:23046.
R = 1195.500m
Degree = 1.464°
Delta = 2°38'52.2
CCL = 25.249m
TRL = 30.00m
TTL = 42.630m
Ca = 45mm
Cd = 48.362mm
Cg = 1 in 667m
Max. Speed = 90
23+200
23/02
Mast Type ---
Chainage 23019.578
23/04
Mast Type ---
Chainage 23064.578
23/06
Mast Type ---
Chainage 23105.078
23/08
Mast Type ---
Chainage 23141.078
23/10
Mast Type ---
Chainage 23172.578
23/12
Mast Type ---
Chainage 23205.078
(45)
(45)
BWA
(40.5)
(36)
(31.5)
(32.5)
C-Wall
C.No.49
C.No.50
(28)
(36)
BWA
23/01
Mast Type --
Chainage 23019.578
23/03
Mast Type --
Chainage 23064.578
23/05
Mast Type --
Chainage 23105.078
23/07
Mast Type --
Chainage 23141.078
V.C:12.65
23/09
Mast Type --
Chainage 23172.578
23/11
Mast Type --
Chainage 23200.578
T.L.=1161.000m
Loc: 21/51
CH: 21903.578m
12/000
23+000
12/100
23+100
12/200
23+200

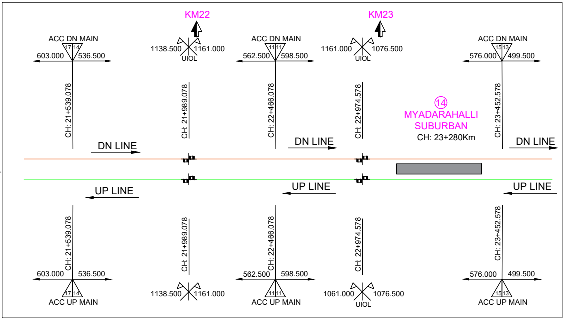


RACK
LH
358m
0"
kmph
BSRP UP TRACK
Curve N. = 49 - LH
Curve CH:23048.678m
R = 1200m
Degree = 1.458°
Delta = 2°38'52.20"
CCL = 25.456m
TRL = 30.00m
TTL = 42.734m
Ca = 45mm
Cd = 48.012mm
Cg = 1 in 667m
Max. Speed = 90kmph
CL OF PRO. MYADARAHALLI SUBURBAN AT GRADE PF & ELEVATED STATION AT CH: 23+280
RAIL LEVEL: 884.660
BSRP DOWN TRACK
Curve N. = 50 - RH
Curve CH:23131.563m
R = 1204.500m
Degree = 1.453°
Delta = 2°37'26.08"
CCL = 25.161m
TRL = 30.00m
TTL = 42.586m
Ca = 45mm
Cd = 47.664mm
Cg = 1 in 667m
Max. Speed = 90kmph
23+300
BSRP UP TRACK
Curve N. = 50 - RH
Curve CH:23128.883m
R = 1200m
Degree = 1.458°
Delta = 2°37'26.08"
CCL = 24.955m
TRL = 30.00m
TTL = 42.483m
Ca = 45mm
Cd = 48.012mm
Cg = 1 in 667m
Max. Speed = 90kmph
23+400
LEVEL
CH:23460
Elev.:883.923
ACC CENTRE FOR DN MAIN
15
13
T.L =576.000m
Loc: 22/32
CH: 22876.578m
T.L =499.500m
Loc: 23/52
CH: 23952.078m
23+300
23/14
Mast Type ---
Chainage 23241.078
23/16
Mast Type ---
Chainage 23277.078
23/18
Mast Type ---
Chainage 23313.078
23/20
Mast Type ---
Chainage 23349.078
23/22
Mast Type ---
Chainage 23385.078
23/24
Mast Type ---
Chainage 23412.078
23/26
Mast Type ---
Chainage 23452.578
C-Wall
PROPOSED SUBURBAN ISLAND PLATFORM - 205m x 6.2m
(36)
(36)
(36)
(36)
(36)
(27)
ACA
(40.5)
155
(40.5)
(36)
(36)
(36)
(36)
(31.5)
ACA
PROPOSED SUBURBAN ISLAND PLATFORM - 205m x 6.2m
23/13
Mast Type --
Chainage 23236.578
23/15
Mast Type --
Chainage 23272.578
23/17
Mast Type --
Chainage 23308.578
23/19
Mast Type --
Chainage 23344.578
23/21
Mast Type --
Chainage 23380.578
23/23
Mast Type --
Chainage 23412.078
23/25
Mast Type --
Chainage 23452.578
T.L =576.000m
Loc: 22/32
CH: 22876.578m
15
13
T.L =499.500m
Loc: 23/52
CH: 23952.078m
ACC CENTRE FOR UP MAIN
12/300
23+300
12/400
23+400

TENTATIVE LOCATION OF DA SHOWN, OHE TO BE SUPPORTED FROM TRUSSES
AND DISTANCE OF TRUSSES REQUIRED FROM STATION BUILDING CONTRACTOR.


1 in 35
23+500
23/28
Mast Type ---
Chainage 23493.078
ACA
205
(40.5)
ACA
23/27
Mast Type --
Chainage 23493.078
Refer Drawing No.-KRDD01-TDR-CR02-GEN-OCS-PGP-00011
DN LINE
CHIKKA BANVARA
SUBURBAN
UP LINE
12/500
23+500
SHETTYHALLI
SUBURBAN

KEY PLAN


KM22
KM23
ACC DN MAIN
17 14
603.000
536.500
1138.500
1161.000
UIOL
ACC DN MAIN
11 11
562.500
598.500
1161.000
1076.500
UIOL
ACC DN MAIN
15 13
576.000
499.500
CH: 21+539.078
CH: 21+989.078
CH: 22+466.078
CH: 22+974.578
⑭
MYADARAHALLI
SUBURBAN
CH: 23+280Km
CH: 23+452.578
DN LINE
DN LINE
DN LINE
UP LINE
UP LINE
UP LINE
CH: 21+539.078
CH: 21+989.078
CH: 22+466.078
CH: 22+974.578
CH: 23+452.578
603.000
536.500
17 14
ACC UP MAIN
1138.500
1161.000
562.500
598.500
11 11
ACC UP MAIN
1061.000
1076.500
UIOL
576.000
499.500
15 13
ACC UP MAIN

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	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	PE
52	In-Span Jumper	
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. 08-07-2024.
4. OHE CHAINAGES OF PEGGING PLAN FOR AT GRADE SECTION HAS BEEN REFERRED WITH RESPECT TO DOWN LINE CHAINAGE.
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.

CHIKKA BANVARA
SUBURBAN →

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	16-08-2024	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
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

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Client:
K RIDE
RAIL INFRASTRUCTURE
DEVELOPMENT COMPANY
(KARNATAKA) LIMITED

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

Corridor-2 (Benniganahalli -Soladevanahalli)

Drawing Title: OHE Pegging Plan for Main Line
CH: 21+100 Km to CH: 23+500 Km

Project Stage: Tender Drawing

Paper Size: 297x4500
Discipline: Power Supply & Traction System
Date: 16/08/2024
Scale: NTS
Drawing no.: KRDD01-TDR-CR02-GEN-OCS-PGP-00010
Revision: R0