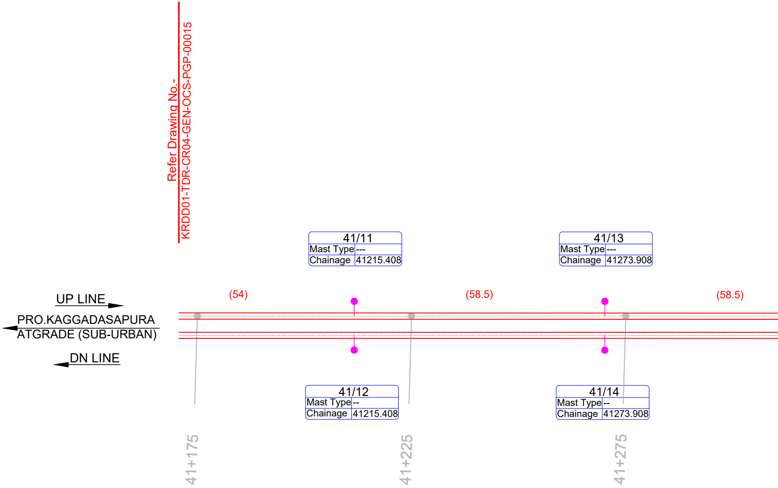
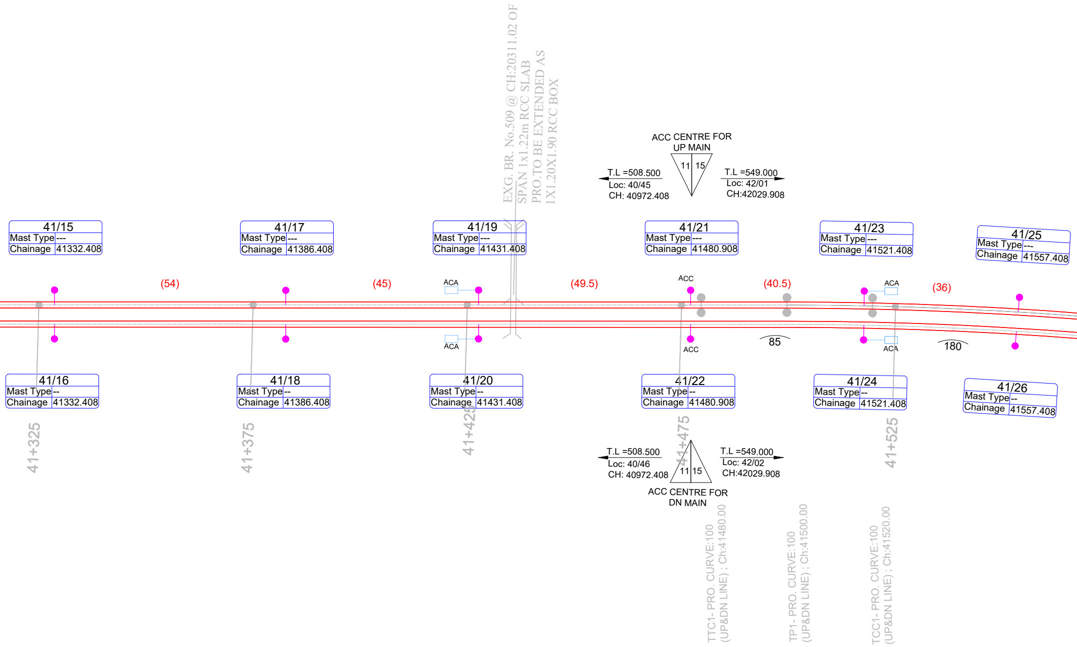
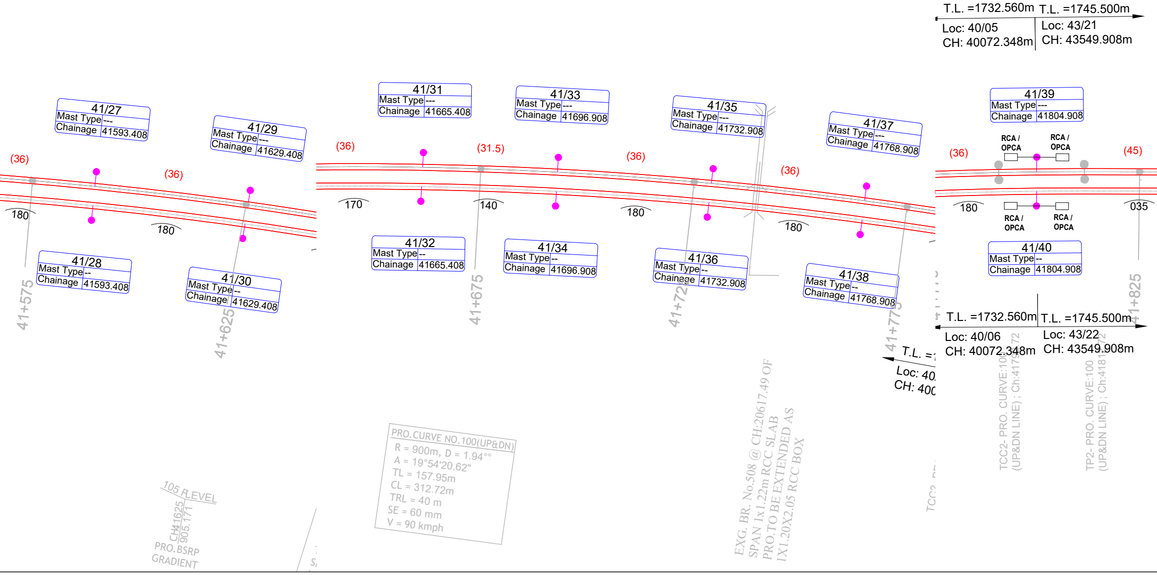
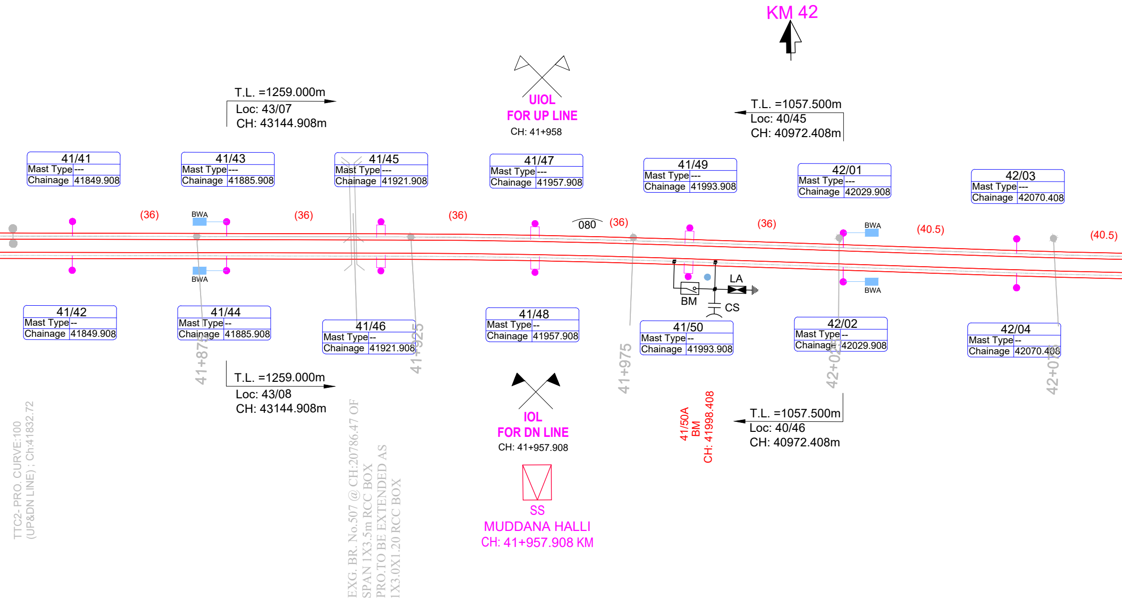
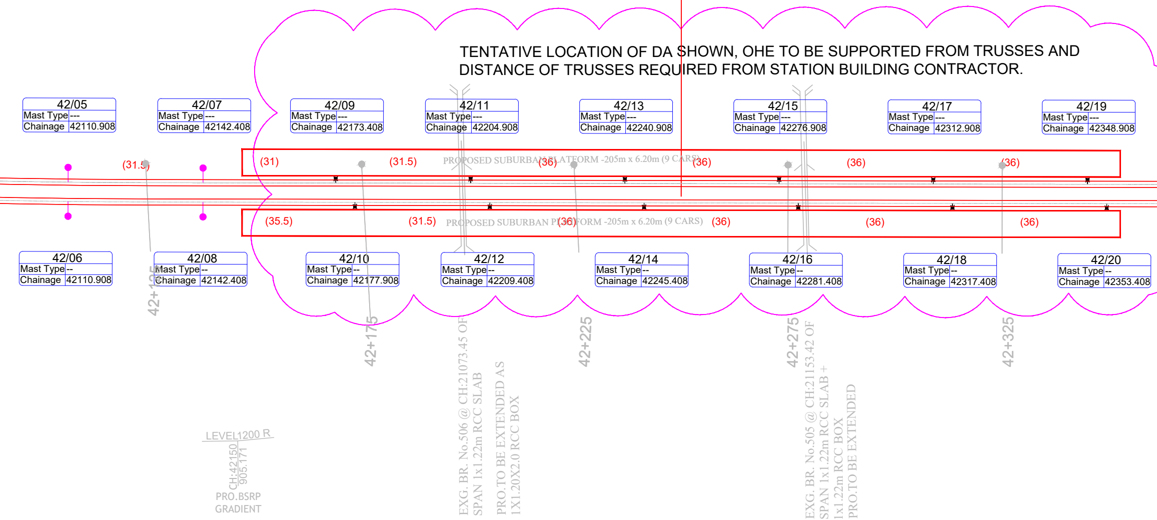

Refer Drawing No.-
KRDD01-TDR-CR04-GEN-OCS-PGP-00015
UP LINE
PRO.KAGGADASAPURA
ATGRADE (SUB-URBAN)
DN LINE
41/11
Mast Type ---
Chainage 41215.408
41/13
Mast Type ---
Chainage 41273.908
(54)
(58.5)
(58.5)
41/12
Mast Type --
Chainage 41215.408
41/14
Mast Type --
Chainage 41273.908
41+175
41+225
41+275


EXG. BR. No.509 @ CH:20311.02 OF
SPAN 1x1.22m RCC SLAB
PRO.TO BE EXTENDED AS
1X1.20X1.90 RCC BOX
ACC CENTRE FOR
UP MAIN
11
15
T.L =508.500
Loc: 40/45
CH: 40972.408
T.L =549.000
Loc: 42/01
CH:42029.908
41/15
Mast Type ---
Chainage 41332.408
41/17
Mast Type ---
Chainage 41386.408
41/19
Mast Type ---
Chainage 41431.408
41/21
Mast Type ---
Chainage 41480.908
41/23
Mast Type ---
Chainage 41521.408
41/25
Mast Type ---
Chainage 41557.408
(54)
(45)
ACA
(49.5)
ACC
(40.5)
ACA
(36)
ACA
ACC
85
ACA
180
41/16
Mast Type --
Chainage 41332.408
41/18
Mast Type --
Chainage 41386.408
41/20
Mast Type --
Chainage 41431.408
41/22
Mast Type --
Chainage 41480.908
41/24
Mast Type --
Chainage 41521.408
41/26
Mast Type --
Chainage 41557.408
41+325
41+375
41+425
41+475
41+525
T.L =508.500
Loc: 40/46
CH: 40972.408
11
15
T.L =549.000
Loc: 42/02
CH:42029.908
ACC CENTRE FOR
DN MAIN
TTC1- PRO. CURVE:100
(UP&DN LINE) ; Ch:41480.00
TP1- PRO. CURVE:100
(UP&DN LINE) ; Ch:41500.00
TCC1- PRO. CURVE:100
(UP&DN LINE) ; Ch:41520.00


T.L. =1732.560m
T.L. =1745.500m
Loc: 40/05
CH: 40072.348m
Loc: 43/21
CH: 43549.908m
41/27
Mast Type ---
Chainage 41593.408
41/28
Mast Type --
Chainage 41593.408
41/29
Mast Type ---
Chainage 41629.408
41/30
Mast Type --
Chainage 41629.408
41/31
Mast Type ---
Chainage 41665.408
41/32
Mast Type --
Chainage 41665.408
41/33
Mast Type ---
Chainage 41696.908
41/34
Mast Type --
Chainage 41696.908
41/35
Mast Type ---
Chainage 41732.908
41/36
Mast Type --
Chainage 41732.908
41/37
Mast Type ---
Chainage 41768.908
41/38
Mast Type --
Chainage 41768.908
41/39
Mast Type ---
Chainage 41804.908
41/40
Mast Type --
Chainage 41804.908
(36)
(36)
(36)
(31.5)
(36)
(36)
(36)
(45)
180
180
170
140
180
180
180
035
RCA / OPCA
RCA / OPCA
RCA / OPCA
RCA / OPCA
41+575
41+625
41+675
41+725
41+775
41+825
T.L. =1732.560m
T.L. =1745.500m
Loc: 40/06
CH: 40072.348m
Loc: 43/22
CH: 43549.908m
T.L. =1
Loc: 40
CH: 400
TCC2- PRO. CURVE:100 (UP&DN LINE) ; Ch:41790.72
TP2- PRO. CURVE:100 (UP&DN LINE) ; Ch:41810.72
TCC2- PR
EXG. BR. No.508 @ CH:20617.49 OF SPAN 1x1.22m RCC SLAB PRO.TO BE EXTENDED AS 1X1.20X2.05 RCC BOX
PRO.CURVE NO.100(UP&DN)
R = 900m, D = 1.94°°
A = 19°54'20.62"
TL = 157.95m
CL = 312.72m
TRL = 40 m
SE = 60 mm
V = 90 kmph
105 F LEVEL
CH41625
905.171
PRO.BSRP GRADIENT
S

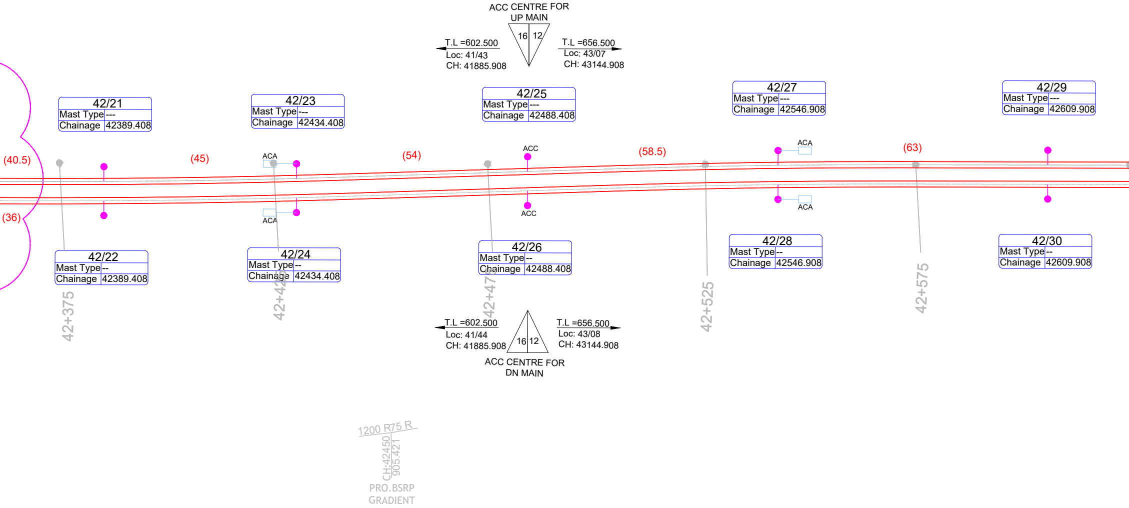

KM 42
T.L. =1259.000m
Loc: 43/07
CH: 43144.908m
UIOL
FOR UP LINE
CH: 41+958
T.L. =1057.500m
Loc: 40/45
CH: 40972.408m
41/41
Mast Type ---
Chainage 41849.908
41/43
Mast Type ---
Chainage 41885.908
41/45
Mast Type ---
Chainage 41921.908
41/47
Mast Type ---
Chainage 41957.908
41/49
Mast Type ---
Chainage 41993.908
42/01
Mast Type ---
Chainage 42029.908
42/03
Mast Type ---
Chainage 42070.408
(36)
BWA
(36)
(36)
080
(36)
(36)
BWA
(40.5)
(40.5)
BWA
LA
BM
CS
BWA
41/42
Mast Type --
Chainage 41849.908
41/44
Mast Type --
Chainage 41885.908
41/46
Mast Type --
Chainage 41921.908
41/48
Mast Type --
Chainage 41957.908
41/50
Mast Type --
Chainage 41993.908
42/02
Mast Type --
Chainage 42029.908
42/04
Mast Type --
Chainage 42070.408
41+875
41+925
41+975
42+025
42+075
T.L. =1259.000m
Loc: 43/08
CH: 43144.908m
IOL
FOR DN LINE
CH: 41+957.908
41/50A
BM
CH: 41998.408
T.L. =1057.500m
Loc: 40/46
CH: 40972.408m
SS
MUDDANA HALLI
CH: 41+957.908 KM
TTC2- PRO. CURVE:100
(UP&DN LINE) ; Ch:41832.72
EXG. BR. No.507 @ CH:20786.47 OF
SPAN 1X3.5m RCC BOX
PRO.TO BE EXTENDED AS
1X3.0X1.20 RCC BOX

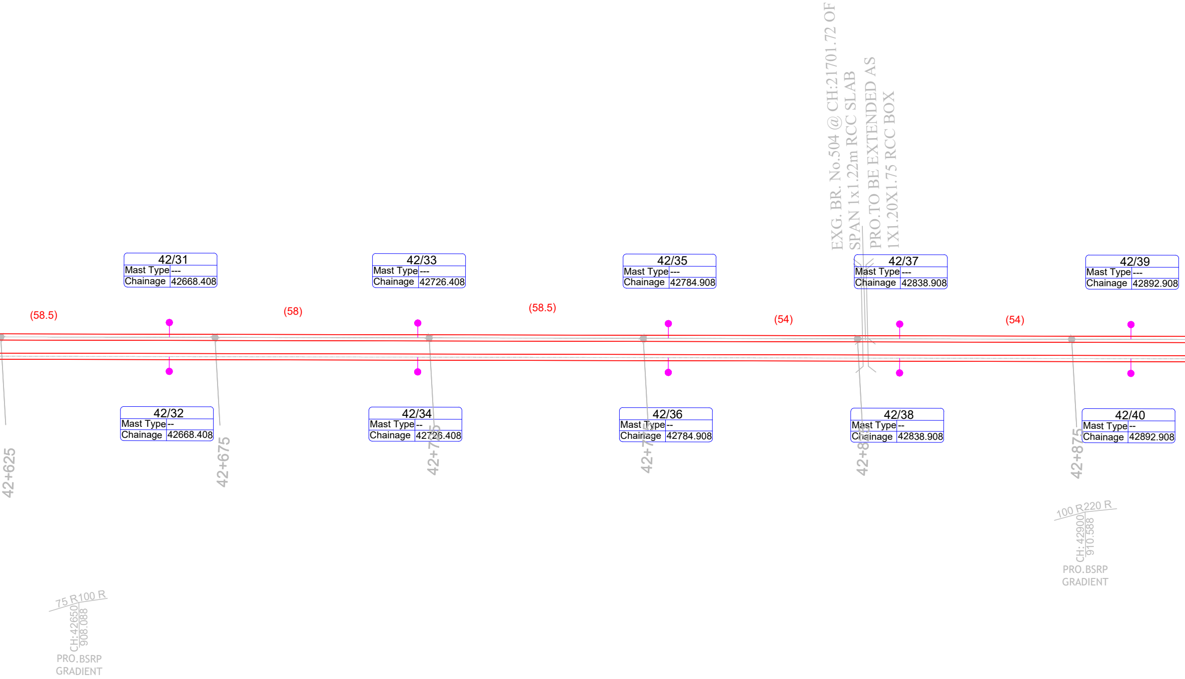
C
L
OF
PRO. MUDDANA HALLI ATGRADE (SUB-URBAN) STATION (Km. 42.250)

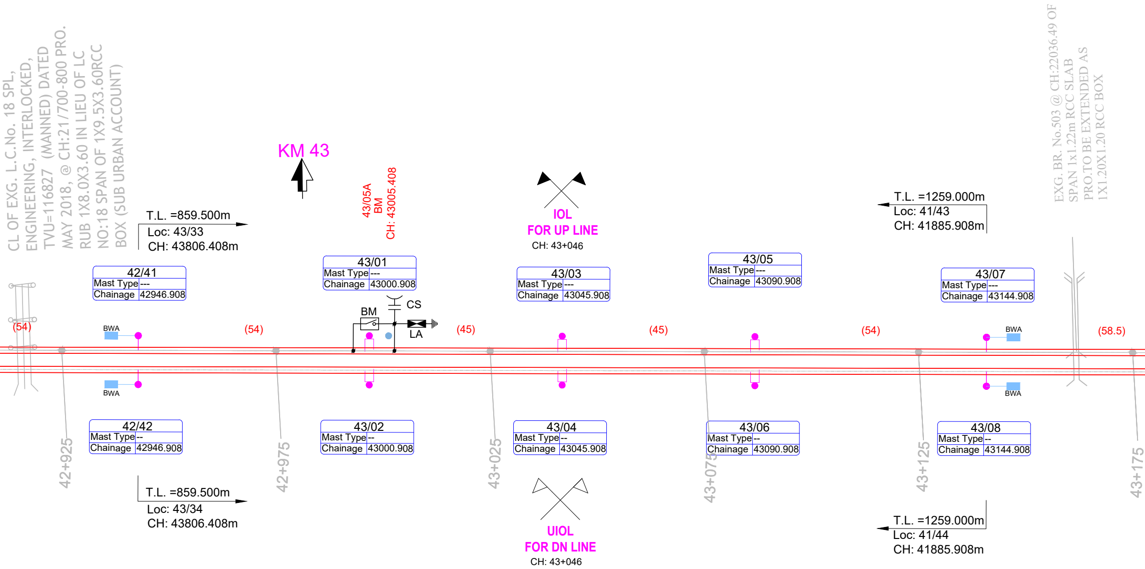


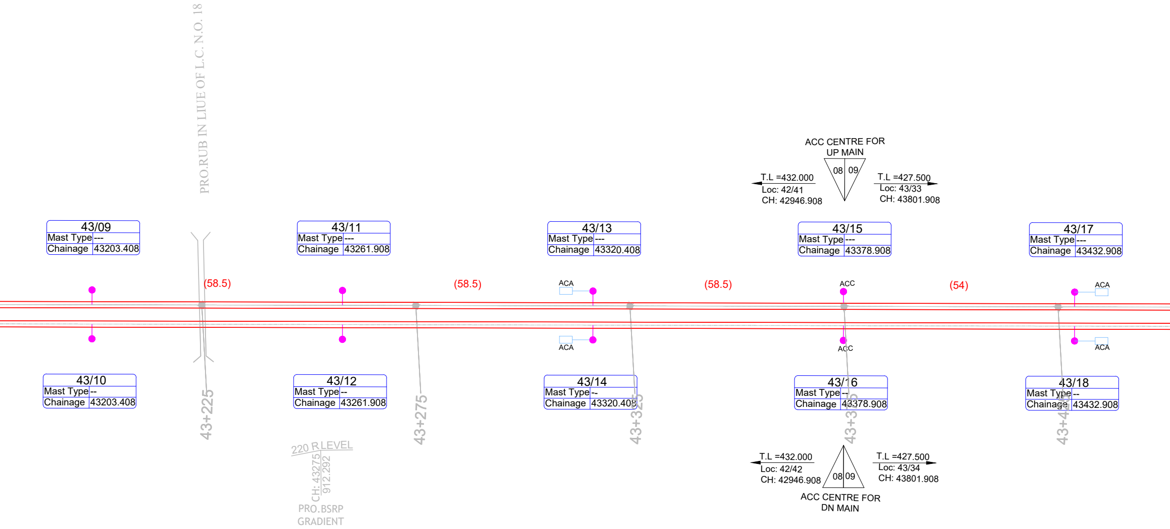
TENTATIVE LOCATION OF DA SHOWN, OHE TO BE SUPPORTED FROM TRUSSES AND DISTANCE OF TRUSSES REQUIRED FROM STATION BUILDING CONTRACTOR.

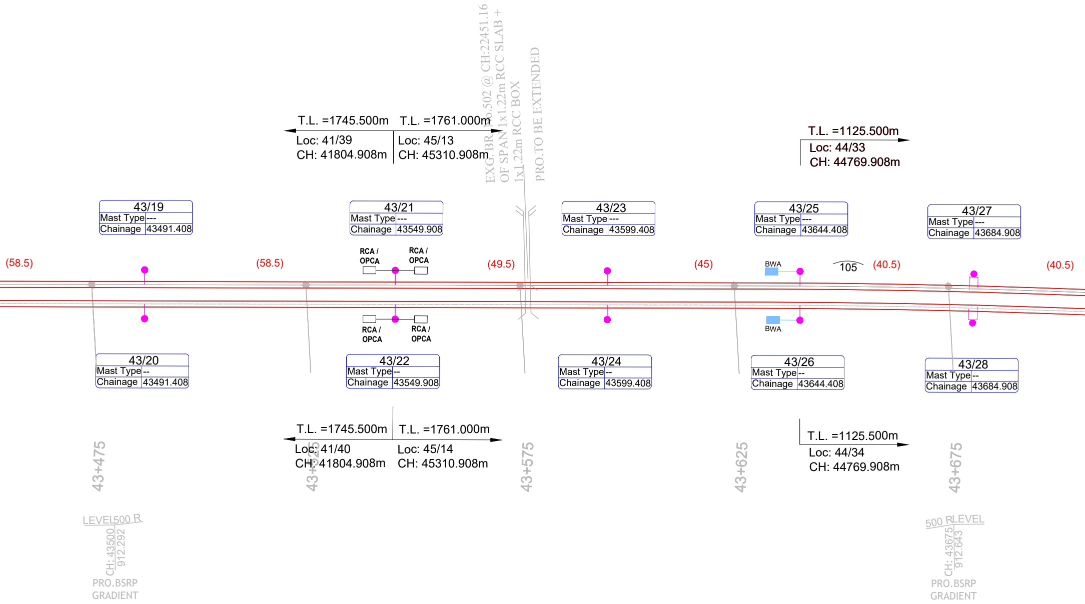
42/05
Mast Type ---
Chainage 42110.908
42/07
Mast Type ---
Chainage 42142.408
42/09
Mast Type ---
Chainage 42173.408
42/11
Mast Type ---
Chainage 42204.908
42/13
Mast Type ---
Chainage 42240.908
42/15
Mast Type ---
Chainage 42276.908
42/17
Mast Type ---
Chainage 42312.908
42/19
Mast Type ---
Chainage 42348.908
(31.5)
(31)
(31.5)
PROPOSED SUBURBAN PLATFORM -205m x 6.20m (9 CARS)
(36)
(36)
(36)
(36)
(35.5)
(31.5)
PROPOSED SUBURBAN PLATFORM -205m x 6.20m (9 CARS)
(36)
(36)
(36)
(36)
42/06
Mast Type --
Chainage 42110.908
42/08
Mast Type --
Chainage 42142.408
42/10
Mast Type --
Chainage 42177.908
42/12
Mast Type --
Chainage 42209.408
42/14
Mast Type --
Chainage 42245.408
42/16
Mast Type --
Chainage 42281.408
42/18
Mast Type --
Chainage 42317.408
42/20
Mast Type --
Chainage 42353.408
42+125
42+175
42+225
42+275
42+325
EXG. BR. No.506 @ CH:21073.45 OF SPAN 1x1.22m RCC SLAB
PRO.TO BE EXTENDED AS 1X1.20X2.0 RCC BOX
EXG. BR. No.505 @ CH:21153.42 OF SPAN 1x1.22m RCC SLAB + 1x1.22m RCC BOX
PRO.TO BE EXTENDED
LEVEL1200 R
CH:42150
905.171
PRO.BSRP
GRADIENT

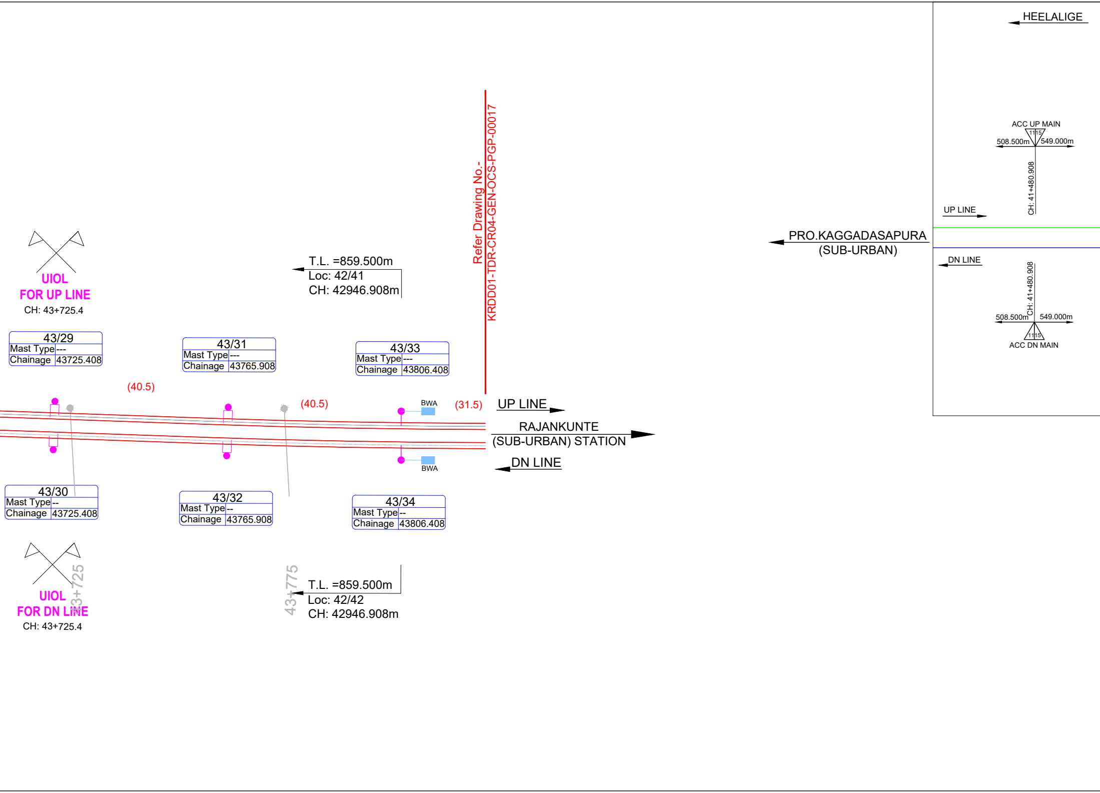

ACC CENTRE FOR
UP MAIN
16
12
T.L =602.500
Loc: 41/43
CH: 41885.908
T.L =656.500
Loc: 43/07
CH: 43144.908
42/21
Mast Type ---
Chainage 42389.408
42/23
Mast Type ---
Chainage 42434.408
42/25
Mast Type ---
Chainage 42488.408
42/27
Mast Type ---
Chainage 42546.908
42/29
Mast Type ---
Chainage 42609.908
(40.5)
(45)
(54)
(58.5)
(63)
ACA
ACC
ACA
(36)
ACA
ACC
ACA
42/22
Mast Type --
Chainage 42389.408
42/24
Mast Type --
Chainage 42434.408
42/26
Mast Type --
Chainage 42488.408
42/28
Mast Type --
Chainage 42546.908
42/30
Mast Type --
Chainage 42609.908
42+375
42+425
42+475
42+525
42+575
T.L =602.500
Loc: 41/44
CH: 41885.908
16
12
T.L =656.500
Loc: 43/08
CH: 43144.908
ACC CENTRE FOR
DN MAIN
1200 R75 R
CH:42450
905.421
PRO.BSRP
GRADIENT

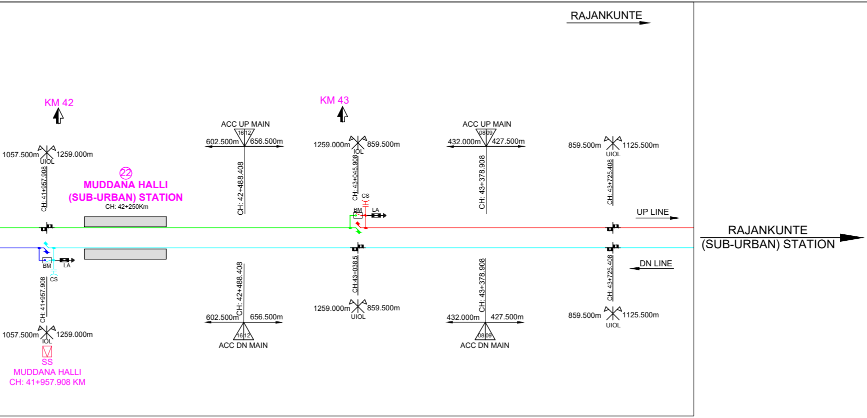

EXG. BR. No.504 @ CH:21701.72 OF
SPAN 1x1.22m RCC SLAB
PRO.TO BE EXTENDED AS
1X1.20X1.75 RCC BOX
42/31
Mast Type ---
Chainage 42668.408
42/33
Mast Type ---
Chainage 42726.408
42/35
Mast Type ---
Chainage 42784.908
42/37
Mast Type ---
Chainage 42838.908
42/39
Mast Type ---
Chainage 42892.908
(58.5)
(58)
(58.5)
(54)
(54)
42/32
Mast Type --
Chainage 42668.408
42/34
Mast Type --
Chainage 42726.408
42/36
Mast Type --
Chainage 42784.908
42/38
Mast Type --
Chainage 42838.908
42/40
Mast Type --
Chainage 42892.908
42+625
42+675
42+725
42+775
42+825
42+875
75 R100 R
CH:42650
908.088
PRO.BSRP
GRADIENT
100 R220 R
CH:42900
910.588
PRO.BSRP
GRADIENT


CL OF EXG. L.C.No. 18 SPL, ENGINEERING, INTERLOCKED, TVU=116827 (MANNED) DATED MAY 2018, @ CH:21/700-800 PRO. RUB 1X8.0X3.60 IN LIEU OF LC NO:18 SPAN OF 1X9.5X3.60RCC BOX (SUB URBAN ACCOUNT)
KM 43
43/05A
BM
CH: 43005.408
IOL
FOR UP LINE
CH: 43+046
T.L. =1259.000m
Loc: 41/43
CH: 41885.908m
EXG. BR. No.503 @ CH:22036.49 OF SPAN 1x1.22m RCC SLAB PRO.TO BE EXTENDED AS 1X1.20X1.20 RCC BOX
T.L. =859.500m
Loc: 43/33
CH: 43806.408m
42/41
Mast Type ---
Chainage 42946.908
43/01
Mast Type ---
Chainage 43000.908
43/03
Mast Type ---
Chainage 43045.908
43/05
Mast Type ---
Chainage 43090.908
43/07
Mast Type ---
Chainage 43144.908
CS
BM
LA
(54)
(54)
(45)
(45)
(54)
(58.5)
BWA
BWA
BWA
BWA
42+925
42+975
43+025
43+075
43+125
43+175
42/42
Mast Type --
Chainage 42946.908
43/02
Mast Type --
Chainage 43000.908
43/04
Mast Type --
Chainage 43045.908
43/06
Mast Type --
Chainage 43090.908
43/08
Mast Type --
Chainage 43144.908
T.L. =859.500m
Loc: 43/34
CH: 43806.408m
UIOL
FOR DN LINE
CH: 43+046
T.L. =1259.000m
Loc: 41/44
CH: 41885.908m


PRO.RUB IN LIUE OF L.C. N.O. 18
ACC CENTRE FOR
UP MAIN
08
09
T.L =432.000
Loc: 42/41
CH: 42946.908
T.L =427.500
Loc: 43/33
CH: 43801.908
43/09
Mast Type ---
Chainage 43203.408
43/11
Mast Type ---
Chainage 43261.908
43/13
Mast Type ---
Chainage 43320.408
43/15
Mast Type ---
Chainage 43378.908
43/17
Mast Type ---
Chainage 43432.908
(58.5)
(58.5)
(58.5)
(54)
ACA
ACC
ACA
ACA
ACC
ACA
43/10
Mast Type --
Chainage 43203.408
43/12
Mast Type --
Chainage 43261.908
43/14
Mast Type --
Chainage 43320.408
43/16
Mast Type --
Chainage 43378.908
43/18
Mast Type --
Chainage 43432.908
43+225
43+275
43+325
43+375
43+425
220 R LEVEL
CH: 43275
912.292
PRO.BSRP
GRADIENT
T.L =432.000
Loc: 42/42
CH: 42946.908
08
09
T.L =427.500
Loc: 43/34
CH: 43801.908
ACC CENTRE FOR
DN MAIN


EXG.BR No.502 @ CH:22451.16
OF SPAN 1x1.22m RCC SLAB +
1x1.22m RCC BOX
PRO.TO BE EXTENDED
T.L. =1745.500m
T.L. =1761.000m
Loc: 41/39
CH: 41804.908m
Loc: 45/13
CH: 45310.908m
T.L. =1125.500m
Loc: 44/33
CH: 44769.908m
43/19
Mast Type ---
Chainage 43491.408
43/21
Mast Type ---
Chainage 43549.908
43/23
Mast Type ---
Chainage 43599.408
43/25
Mast Type ---
Chainage 43644.408
43/27
Mast Type ---
Chainage 43684.908
(58.5)
(58.5)
RCA / OPCA
RCA / OPCA
(49.5)
(45)
BWA
105
(40.5)
(40.5)
RCA / OPCA
RCA / OPCA
BWA
43/20
Mast Type --
Chainage 43491.408
43/22
Mast Type --
Chainage 43549.908
43/24
Mast Type --
Chainage 43599.408
43/26
Mast Type --
Chainage 43644.408
43/28
Mast Type --
Chainage 43684.908
T.L. =1745.500m
T.L. =1761.000m
Loc: 41/40
CH: 41804.908m
Loc: 45/14
CH: 45310.908m
T.L. =1125.500m
Loc: 44/34
CH: 44769.908m
43+475
43+525
43+575
43+625
43+675
LEVEL
500 R
CH: 43500
912.292
PRO.BSRP
GRADIENT
500 R
LEVEL
CH: 43675
912.643
PRO.BSRP
GRADIENT


HEELALIGE
ACC UP MAIN
11 15
508.500m
549.000m
CH: 41+480.908
UP LINE
PRO.KAGGADASAPURA
(SUB-URBAN)
DN LINE
CH: 41+480.908
508.500m
549.000m
11 15
ACC DN MAIN
Refer Drawing No.-
KRDD01-TDR-CR04-GEN-OCS-PGP-00017
T.L. =859.500m
Loc: 42/41
CH: 42946.908m
UIOL
FOR UP LINE
CH: 43+725.4
43/29
Mast Type ---
Chainage 43725.408
43/31
Mast Type ---
Chainage 43765.908
43/33
Mast Type ---
Chainage 43806.408
(40.5)
(40.5)
BWA
(31.5)
UP LINE
RAJANKUNTE
(SUB-URBAN) STATION
DN LINE
BWA
43/30
Mast Type --
Chainage 43725.408
43/32
Mast Type --
Chainage 43765.908
43/34
Mast Type --
Chainage 43806.408
UIOL
FOR DN LINE
CH: 43+725.4
43+725
43+775
T.L. =859.500m
Loc: 42/42
CH: 42946.908m


RAJANKUNTE
KM 42
KM 43
ACC UP MAIN
16 12
602.500m
656.500m
CH: 42+488.408
1259.000m
859.500m
IOL
CH: 43+045.908
CS
BM
LA
ACC UP MAIN
08 09
432.000m
427.500m
CH: 43+378.908
859.500m
1125.500m
UIOL
CH: 43+725.408
UP LINE
1057.500m
1259.000m
UIOL
CH: 41+957.908
22
MUDDANA HALLI
(SUB-URBAN) STATION
CH: 42+250Km
BM
LA
CS
CH: 41+957.908
1057.500m
1259.000m
IOL
SS
MUDDANA HALLI
CH: 41+957.908 KM
CH: 42+488.408
602.500m
656.500m
16 12
ACC DN MAIN
CH:43+038.5
1259.000m
859.500m
UIOL
CH: 43+378.908
432.000m
427.500m
08 09
ACC DN MAIN
CH: 43+725.408
859.500m
1125.500m
UIOL
DN LINE
RAJANKUNTE
(SUB-URBAN) STATION

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.

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	—
47	Return Conductor	—
48	Cross feeder	—
49	Slack feeder	—
50	Full Feeding Jumper	Ⓖ
51	Potential Equalising Jumper	Ⓕ PE
52	In-Span Jumper	Ⓗ
53	RC and OPC Support	▲
54	Track at UP/DN line (Corridor 2)	—
55	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 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.

FOR TENDER PURPOSE ONLY

REV	DATE	DESCRIPTION	Originator	Checked	Approved
R0	11-09-2024	First Submission	DK / 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 MVA CONSULTING (INDIA) PVT. LTD.
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Drawn	Checked:	Approved:
D.Kumar	D. Kalyan	R. Kapoor
S. Bhati	N. Parmar	S. Kumar

Client:

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-4 (Heelalige -Rajankunte)

Drawing Title:
OHE Pegging Plan for Main Line
CH: 41+175.000Km to CH: 43+775Km

Project Stage: Tender Drawing

Paper Size: 297X4500
Discipline: Power Supply & Traction System
Date: 11/09/2024
Scale: NTS

Drawing no.: KRDD01-TDR-CR04-GEN-OCS-PGP-00016
Revision: R0