

SORO STATION

CH: KM:264.425 F/HWH

731	940	LEVEL	1163	LEVEL	1550	LEVEL
CH: 4307.0M	FL: 14.868 M	CH: 3907.0M	FL: 14.432 M	CH: 3357.0M	FL: 14.432 M	CH: 2607.0M
FL: 14.868 M	CH: 3907.0M	FL: 14.432 M	CH: 3357.0M	FL: 14.432 M	CH: 2607.0M	FL: 15.077 M
CH: 3907.0M	FL: 14.432 M	CH: 3357.0M	FL: 14.432 M	CH: 2607.0M	FL: 15.077 M	CH: 1757.0M
FL: 14.432 M	CH: 3357.0M	FL: 14.432 M	CH: 2607.0M	FL: 15.077 M	CH: 1757.0M	FL: 15.367 M

GRADE TOWARDS MARKONA FOR EXTG. LINE

731	940	LEVEL	1163	LEVEL	1550	LEVEL
CH: 4307.0M	FL: 14.868 M	CH: 3907.0M	FL: 14.432 M	CH: 3357.0M	FL: 14.432 M	CH: 2607.0M
FL: 14.868 M	CH: 3907.0M	FL: 14.432 M	CH: 3357.0M	FL: 14.432 M	CH: 2607.0M	FL: 15.077 M
CH: 3907.0M	FL: 14.432 M	CH: 3357.0M	FL: 14.432 M	CH: 2607.0M	FL: 15.077 M	CH: 1757.0M
FL: 14.432 M	CH: 3357.0M	FL: 14.432 M	CH: 2607.0M	FL: 15.077 M	CH: 1757.0M	FL: 15.367 M

LEVEL	1502
CH: 1193.0M	FL: 15.367 M
UP & DN MAIN LINE	
LEVEL	1502
CH: 1193.0M	FL: 15.367 M

LEVEL	1502	LEVEL	3650	770
CH: 2043.0M	FL: 15.933 M	CH: 3793.0M	FL: 15.933 M	CH: 4743.0M
FL: 15.933 M	CH: 3793.0M	FL: 15.933 M	CH: 4743.0M	FL: 16.193 M
CH: 3793.0M	FL: 15.933 M	CH: 4743.0M	FL: 16.193 M	

GRADE TOWARDS BAHANAGABAZAR
FOR EXTG. LINE
NOT TO SCALE
AS PER SITE

FOR EXTG. DN LINE
CURVE NO-14DN(LH)
R=1750.000m(1.0°)
D=10°8'58.5"
CL=310.000m
TL=142.535m
Trcl=80M.

FOR PROP. 4th LINE
CURVE NO-14DN(LH)
R=2000m(0.875°)
D=9°24'47"
CL=328.58m
TL=164.83m
Trcl=100M.
SPEED=160

FOR PROP. DN & UP MAIN
C. NO.-14 DN (LH)
R=2000m(0.875°)
D=9°24'47"
CL=328.58m
TL=164.83m
Trcl=100M.
SPEED=160

FOR EXTG. UP LINE
CURVE NO-1UP (LH)
R=1750.000m(1.0°)
D=10°8'58.5"
CL=310.000m
TL=142.535m
Trcl=80M.

731	940	LEVEL	1163	LEVEL	1550	LEVEL
CH: 4307.0M	FL: 14.868 M	CH: 3907.0M	FL: 14.432 M	CH: 3357.0M	FL: 14.432 M	CH: 2607.0M
FL: 14.868 M	CH: 3907.0M	FL: 14.432 M	CH: 3357.0M	FL: 14.432 M	CH: 2607.0M	FL: 15.077 M
CH: 3907.0M	FL: 14.432 M	CH: 3357.0M	FL: 14.432 M	CH: 2607.0M	FL: 15.077 M	CH: 1757.0M
FL: 14.432 M	CH: 3357.0M	FL: 14.432 M	CH: 2607.0M	FL: 15.077 M	CH: 1757.0M	FL: 15.367 M

GRADE TOWARDS MARKONA FOR PROP. 3RD LINE (JL LINE)

CURVE NO.-164(LH)
FOR PROP 3RD LINE
R=1750m(1.0°)
D=9°18'46"
CL=142.535m
TL=284.443.00m
Trcl=130m

FOR PROP. 3rd LINE
CURVE NO-14DN(LH)
R=2000m(0.875°)
D=9°24'47"
CL=328.58m
TL=164.83m
Trcl=100M.
SPEED=160

BASED ON CE'S NO-YD/SY/28357/19

LEGEND

1. 4th LINE WORK SHOWN IN RED-
2. 3rd LINE WORK SHOWN IN MARGENTA-
3. EXISTING WORK SHOWN IN BLACK

DY. CE/C/
S.E RAILWAY
GRC

CE/C/HQ
S.E RAILWAY
CE/C/HQ

CSTE/CON
S.E RAILWAY
CTPM

CEE/CON
S.E RAILWAY
CEE/CON

CTPM
S.E RAILWAY
CSTE

CONCEPT PLAN

SORO STATION

PROJECT: PROPOSED 4TH LINE FROM
SORO TO RANITAL STATION

1400	1053	LEVEL	677	727	LEVEL	1248	1375
CH: 4269.00M	FL: 14.612 M	CH: 3968.00M	FL: 14.897 M	CH: 3569.00M	FL: 14.897 M	CH: 3318.00M	FL: 15.266 M
CH: 2219.00M	FL: 13.753 M	CH: 1819.00M	FL: 13.753 M	CH: 870.00M	FL: 12.993 M		

GRADE TOWARDS MARKONA FOR EXIST. LINES

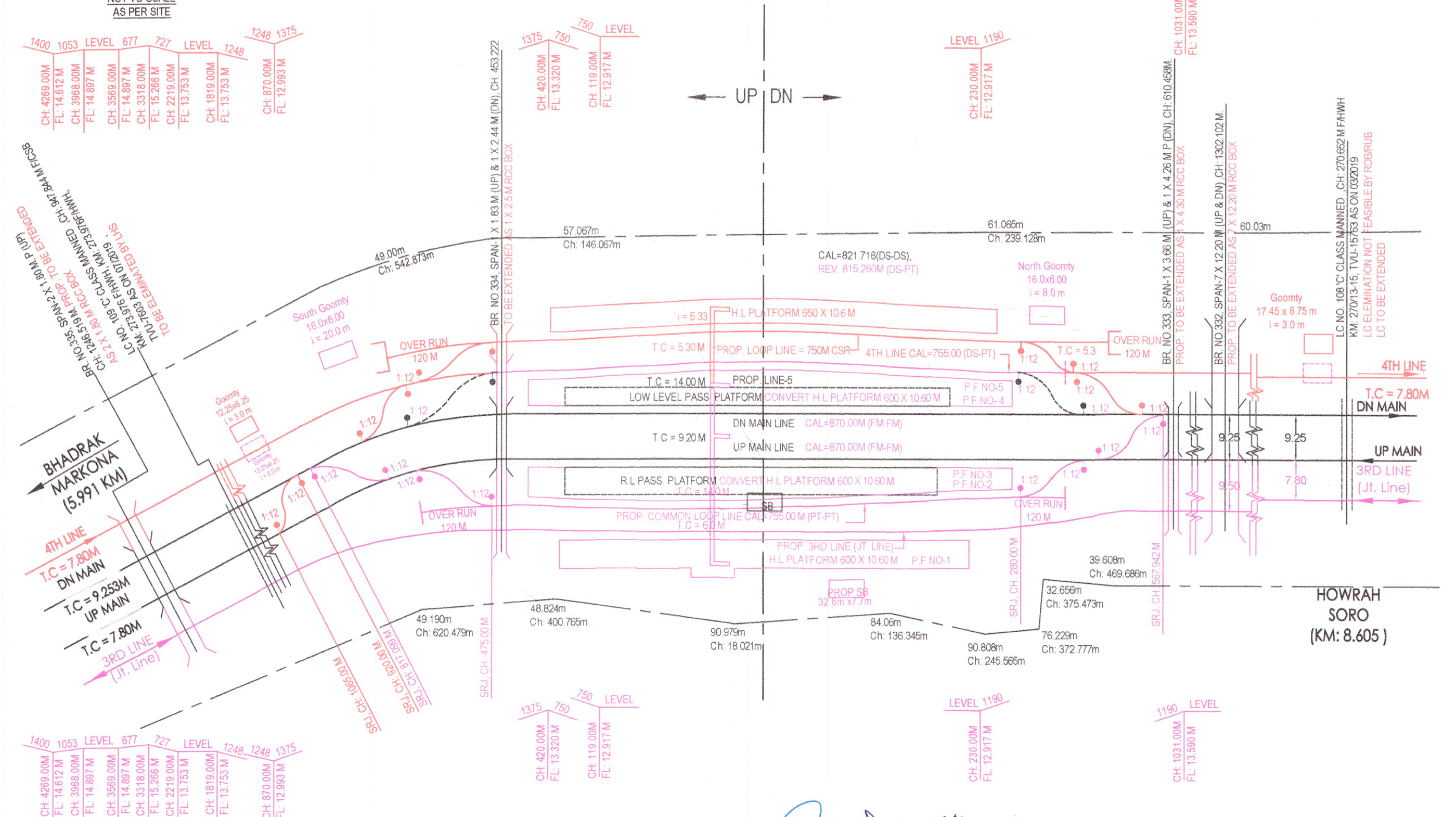
NOT TO SCALE
AS PER SITE

1400	1053	LEVEL	677	727	LEVEL	1248	1375
CH: 4269.00M	FL: 14.612 M	CH: 3968.00M	FL: 14.897 M	CH: 3569.00M	FL: 14.897 M	CH: 3318.00M	FL: 15.266 M
CH: 2219.00M	FL: 13.753 M	CH: 1819.00M	FL: 13.753 M	CH: 870.00M	FL: 12.993 M		

1375	750	750	LEVEL
CH: 420.00M	FL: 13.320 M	CH: 119.00M	FL: 12.917 M

SABIRA STATION CH: 0.00 KM:273.029 F/HWH

LEVEL 1190	LEVEL 1190
CH: 230.00M	CH: 103.00M
FL: 12.917 M	FL: 13.590 M



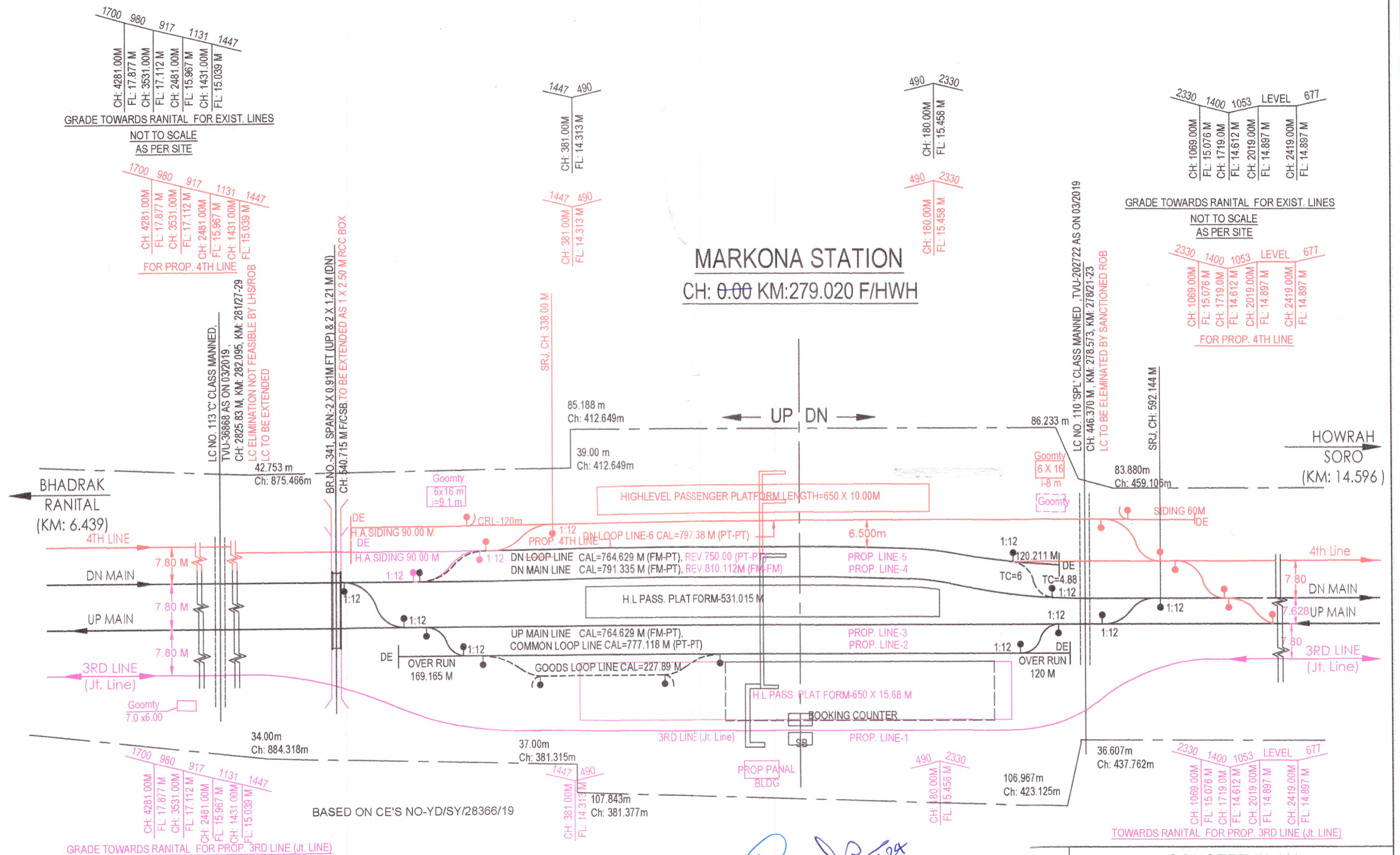
1400	1053	LEVEL	677	727	LEVEL	1248	1248	1375
CH: 4269.00M	FL: 14.612 M	CH: 3968.00M	FL: 14.897 M	CH: 3569.00M	FL: 14.897 M	CH: 3318.00M	FL: 15.266 M	CH: 2219.00M
				FL: 13.753 M	CH: 1819.00M	FL: 13.753 M		
							CH: 870.00M	FL: 12.993 M

BASED ON CE'S NO-YD/SY/28364/19

LEGEND	
1. 4th LINE WORK SHOWN IN RED-	
2. 3rd LINE WORK SHOWN IN MARGENTA-	
3. EXISTING WORK SHOWN IN BLACK	

DY.CE/C/ S.E RAILWAY GRC
 CE/C/HQ S.E RAILWAY CE/C/HQ
 CSTE/CON S.E RAILWAY CTPM
 CEE/CON S.E RAILWAY CEE/CON
 CTPM S.E RAILWAY CSTE

CONCEPT PLAN	
SABIRA STATION	
PROJECT:	PROPOSED 4TH LINE FROM SORO TO RANITAL STATION



LEVEL LEVEL
CH: 3600.00 M
FL: 16.764 M
AS PER SITE
(FOR EXTG. MAIN LINES)
FOR UP & DN LINE

BHADRAK
RANITAL LINK
CABIN
(2.712)

DN DHAMRA
LINK LINE
4TH LINE
DN MAIN
UP MAIN
3RD LINE
(Jt. Line)
UP DHAMRA
LINK LINE

LEVEL LEVEL
CH: 3600.00 M
FL: 16.764 M
(FOR PROP. 3RD LINE)

BASED ON CE'S NO-YD/SY/2833419

LC NO. 115 "SPL" CLASS (M) CH: 807.25M F/CSB
KM: 286.334 F/HWH, KM: 286.13-15
TVU-267865 AS ON 03/2019
TO BE ELIMINATED BY ROB
AS ON 03/2019
LC TO BE ELIMINATED BY RUB

RANITAL STATION

CH: KM:285.459 F/HWH

UP DN

BR NO. 348-2 X 0.8M FT CH: 82.296 M
TO BE EXTENDED AS 1 X 1.20 M RCC BOX

BR NO. 347-1 X 0.83M FT (DN) CH: 540.715 M F/CSB
TO BE EXTENDED AS 1 X 1.830 M RCC BOX

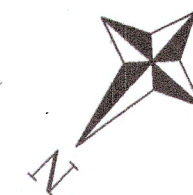
BR NO. 346-1 X 0.915 M FT (DN) CH: 924.50 M F/CSB
SPAN 1 X 1.20 M BOX (UP) CH: 924.50M
TO BE EXTENDED AS 1 X 2.0 M RCC BOX

LC NO. 114 "C" CLASS (M) CH: 1449.629 M F/CSB
KM: 284.009 F/HWH, KM: 284.1-3 TVU-23343 AS ON 03/2019
MURUNA ROAD TO MUMURUNA VILL.
TO BE ELIMINATED BY ROB/RUB

LEVEL 1273 LEVEL
CH: 1670.304M
FL: 16.764 M
(FOR PROP. 4th LINE)

LEVEL 1273 LEVEL
CH: 1670.304M
FL: 16.764 M
AS PER SITE
(FOR EXTG. MAIN LINES)
FOR UP & DN LINE

LEVEL 1273 LEVEL
CH: 1670.304M
FL: 16.764 M
(FOR PROP. 3RD LINE)



LONG LOOP 755+750m
CAL-755M (PT-PT)
CAL-822M (FB-FB)
R.L PLATFORM CON. H.L PLAT - 540MX13.66 M
4TH LINE
PROP. LINE NO.9
PROP. LINE NO.8
R.L PLATFORM
CON. H.L PLAT - 540MX13.66 M
PLAT NO-6
PLAT NO-5
LINE NO.6
PROP. LINE NO.7
R.L PLATFORM
CON. H.L PLAT - 540MX13.66 M
PLAT NO-4
PLAT NO-3
UP MAIN LINE CAL.860.425M (FB-FB)
LINE NO.5
CAL.1487.61M (FB-FB)
CAL.1298.00M (FB-FB)
PROP. LINE NO.4
R.L PASSENGER PLATFORM 38.524 M LONG CONVERTED H.L PLATFORM
PLAT NO-2
PLAT NO-1
CAL.1060.0 M (FB-FB)
PROP. LINE NO.3
CAL-822 M (FB-FB)
PROP. LINE NO.2
CAL-755 M (PT-PT)
PROP. LINE NO.1

NEW STN. BLDG
AS PER CE'S STD DRC
NO. BLDG/STN/27909/18
58.925 M X 9.25 M)

HOWRAH
MARKONA
(6.349 KM)

LEGEND

- 4th LINE WORK SHOWN IN RED-
- 3rd LINE WORK SHOWN IN MARGENTA-
- EXISTING WORK SHOWN IN BLACK

DY.CE/C/
S.E RAILWAY
GRC

CE/C/HQ
S.E RAILWAY
CE/C/HQ

CSTE/CON
S.E RAILWAY
CTPM

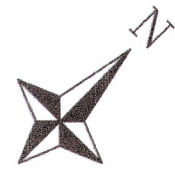
CEE/CON
S.E RAILWAY
CEE/CON

CTPM
S.E RAILWAY
CSTE

CONCEPT PLAN

RANITAL STATION

PROJECT: PROPOSED 4TH LINE FROM
SORO TO RANITAL STATION



RANITAL LINK (JN) CABIN

CH: KM:288.171 F/HWH

LEVEL	1000R	LEVEL	1000F	LEVEL	1000F	LEVEL	1000F
CH: 3762.00M	FL: 16.760 M	CH: 2284.00M	FL: 18.238 M	CH: 2219.00M	FL: 18.238 M	CH: 1634.00M	FL: 17.653 M
CH: 514.00M	FL: 17.653 M	CH: 514.00M	FL: 17.653 M	CH: 514.00M	FL: 17.653 M	CH: 514.00M	FL: 17.653 M

DN LINE

LEVEL	1000F	LEVEL	1000F	LEVEL	1000F	LEVEL	1000F
CH: 1466.00M	FL: 17.275 M	CH: 1941.00M	FL: 16.800 M	CH: 4421.00M	FL: 16.800 M	CH: 4421.00M	FL: 16.800 M

DN LINE

CURVE NO-1
R=375.000m
D=109°12'7.58"
CL=714.726m
TL=527.697m
Trl=74M.

CURVE NO-2
R=500.000m
D=17°35'0.19"
CL=153.444m
TL=77.330m
Trl=40M.

CURVE NO-1
R=490.000m
D=8°24'32"
CCL=1.914m
TL=36.021m
Trl=70M

CURVE NO-1
R=500.000m
D=12°14'54.47"
CL=106.888m
TL=53.648m
Trl=50M.

LEVEL	3402.43 F	LEVEL	9200 R	LEVEL	8640 F
CH: 5045.00M	FL: 16.90M	CH: 3650.00M	FL: 17.310M	CH: 3222.00M	FL: 17.310M
CH: 1382.00M	FL: 17.110M	CH: 1382.00M	FL: 17.110M	CH: 1382.00M	FL: 17.110M

UP LINE & (3RD LINE)

LEVEL	354 R	LEVEL	10770 R	LEVEL	8640 F
CH: 1186.00M	FL: 17.270M	CH: 520.00M	FL: 17.210M	CH: 520.00M	FL: 17.210M

UP DPCL LINE

LEVEL	9200 F	LEVEL	2100 F	LEVEL	2100 F	LEVEL	695 F	LEVEL	695 F
CH: 386.685M	FL: 17.312M	CH: 896.500M	FL: 17.555M	CH: 1186.685M	FL: 17.693M	CH: 1436.685M	FL: 17.338M	CH: 4542.685M	FL: 17.21M

3RD LINE

LEVEL	9200F	LEVEL	1486F	LEVEL	1019R	LEVEL	1019R
CH: 386.685M	FL: 17.312 M	CH: 896.5M	FL: 17.655 M	CH: 1768.00M	FL: 16.800 M	CH: 1768.00M	FL: 16.800 M

UP LINE

LEGEND	
1. PROP.	WORK SHOWN IN RED-
2. Discontinuation	WORK SHOWN IN DOTTED -
3. EXISTING WORK	SHOWN IN BLACK

DY.CE/C/ S.E RAILWAY GRC
CE/C/HQ S.E RAILWAY CE/C/HQ
CSTE/CON S.E RAILWAY
CEE/CON S.E RAILWAY
CTPM S.E RAILWAY

CONCEPT PLAN	
RANITAL LINK(JN) CABIN STATION	
PROJECT:	PROPOSED 4TH LINE FROM SORO TO RANITAL STATION