

National Highways & Infrastructure Development Corporation Limited.

Consultancy Services for preparation of Feasibility Study and Detailed Project Report for Two lanning of Pango to Jorging Road (Length: 90 km) for execution on EPC Mode in the State of Arunachal Pradesh under SARDP-NE Phase 'B'

FINAL DETAILED PROJECT REPORT - SEPTEMBER-2023



**PLAN & PROFILE
PACKAGE - I (0+000KM TO 40+000 KM)**

CONSULTANT:



Shweta Technophile Consultants Pvt. Ltd.



CENTER LINE COORDINATES

Chainage	Easting	Northing
0	671634.000	3196774.240
100	671573.940	3196700.590
200	671532.800	3196609.790
300	671468.260	3196567.730
400	671503.690	3196653.300
500	671463.280	3196699.720
600	671404.510	3196618.840
700	671382.940	3196522.880
800	671362.130	3196427.060
900	671303.160	3196346.830
1000	671229.530	3196341.350
1100	671304.370	3196393.680
1200	671356.730	3196476.290
1300	671292.950	3196461.930
1400	671228.170	3196395.860
1500	671169.650	3196316.570
1600	671112.120	3196240.720
1700	671113.790	3196310.480
1800	671181.460	3196383.180
1900	671245.370	3196460.020
2000	671260.230	3196539.470
2100	671198.600	3196473.900
2200	671138.250	3196395.310
2300	671070.690	3196324.060
2400	670987.520	3196270.480
2500	670918.730	3196198.380
2600	670821.930	3196198.600
2700	670724.740	3196222.150
2800	670644.940	3196275.730
2900	670572.650	3196337.550
3000	670479.260	3196302.140
3100	670385.980	3196271.080
3200	670285.980	3196270.010
3300	670186.400	3196263.380
3400	670089.250	3196241.300
3500	669990.870	3196237.380
3600	669957.720	3196308.650
3700	669878.730	3196354.270
3800	669799.780	3196329.490
3900	669750.180	3196243.980
4000	669712.190	3196156.150
4100	669704.320	3196056.470
4200	669787.600	3196016.270
4300	669885.440	3195995.620
4400	669983.200	3195974.600
4500	670075.140	3195935.850
4600	670156.650	3195880.460
4700	670189.020	3195786.210
4800	670237.410	3195698.980
4900	670297.160	3195619.240
5000	670374.680	3195556.140

Chainage	Easting	Northing
5100	670453.190	3195494.200
5200	670519.270	3195420.570
5300	670535.120	3195323.290
5400	670499.960	3195230.220
5500	670459.760	3195138.680
5600	670424.090	3195045.450
5700	670419.290	3194946.300
5800	670454.820	3194853.690
5900	670516.360	3194779.370
6000	670557.220	3194692.480
6100	670557.560	3194592.480
6200	670565.430	3194492.850
6300	670580.310	3194393.970
6400	670607.640	3194298.090
6500	670618.560	3194200.110
6600	670615.570	3194100.390
6700	670620.250	3194000.500
6800	670645.400	3193904.730
6900	670708.810	3193827.810
7000	670765.510	3193746.080
7100	670759.210	3193654.160
7200	670685.850	3193592.630
7300	670601.850	3193636.210
7400	670540.210	3193714.950
7500	670478.560	3193793.690
7600	670406.290	3193860.850
7700	670308.780	3193863.630
7800	670231.330	3193802.060
7900	670161.560	3193730.420
8000	670081.920	3193671.240
8100	669994.490	3193622.700
8200	669907.260	3193573.820
8300	669821.990	3193521.580
8400	669730.170	3193484.930
8500	669630.810	3193493.670
8600	669531.750	3193507.310
8700	669433.220	3193524.160
8800	669336.240	3193548.540
8900	669275.190	3193614.050
9000	669278.950	3193713.910
9100	669301.020	3193811.430
9200	669308.230	3193907.100
9300	669225.510	3193963.230
9400	669153.800	3193933.620
9500	669096.250	3193853.330
9600	669025.810	3193782.490
9700	668948.910	3193722.510
9800	668887.830	3193643.370
9900	668820.790	3193569.410
10000	668775.680	3193480.550

Chainage	Easting	Northing
10100	668743.920	3193385.730
10200	668722.500	3193288.220
10300	668678.060	3193198.830
10400	668597.770	3193150.290
10500	668515.650	3193203.020
10600	668440.380	3193268.750
10700	668361.520	3193330.230
10800	668285.160	3193394.670
10900	668217.450	3193468.250
11000	668156.370	3193547.140
11100	668150.840	3193644.980
11200	668152.380	3193744.780
11300	668145.790	3193844.500
11400	668120.240	3193936.850
11500	668021.340	3193950.900
11600	667940.900	3193902.660
11700	667877.800	3193825.680
11800	667818.240	3193745.630
11900	667777.790	3193654.200
12000	667701.140	3193592.980
12100	667607.000	3193559.290
12200	667512.670	3193526.080
12300	667416.970	3193497.080
12400	667385.920	3193417.450
12500	667419.730	3193333.190
12600	667515.750	3193359.440
12700	667615.040	3193370.780
12800	667706.910	3193350.480
12900	667745.860	3193259.080
13000	667807.900	3193180.760
13100	667877.010	3193108.520
13200	667937.800	3193029.260
13300	667978.070	3192938.160
13400	668013.930	3192845.290
13500	668034.990	3192751.570
13600	668101.920	3192681.590
13700	668122.220	3192584.470
13800	668089.900	3192493.700
13900	668027.620	3192415.580
14000	667962.550	3192339.640
14100	667894.610	3192266.600
14200	667799.450	3192246.020
14300	667707.900	3192285.020
14400	667624.080	3192331.880
14500	667526.870	3192308.630
14600	667429.810	3192284.530
14700	667332.000	3192294.840
14800	667241.120	3192305.530
14900	667211.970	3192218.840
15000	667163.230	3192132.230

Chainage	Easting	Northing
15100	667071.640	3192127.580
15200	667038.250	3192218.690
15300	667005.030	3192312.620
15400	666937.470	3192380.250
15500	666843.640	3192414.830
15600	666751.840	3192454.140
15700	666671.430	3192399.900
15800	666675.130	3192304.280
15900	666705.770	3192209.800
16000	666684.810	3192112.630
16100	666645.570	3192021.230
16200	666579.180	3191946.610
16300	666516.390	3191868.840
16400	666454.700	3191790.140
16500	666392.070	3191712.200
16600	666309.030	3191657.350
16700	666242.300	3191583.430
16800	666178.980	3191506.060
16900	666095.680	3191540.010
17000	665998.330	3191562.880
17100	665900.980	3191585.740
17200	665803.630	3191608.610
17300	665705.840	3191603.020
17400	665607.470	3191594.490
17500	665509.280	3191606.680
17600	665410.180	3191593.360
17700	665375.550	3191515.930
17800	665396.730	3191419.340
17900	665314.740	3191423.890
18000	665229.190	3191475.530
18100	665130.460	3191483.410
18200	665032.890	3191503.130
18300	664942.450	3191545.730
18400	664847.400	3191575.300
18500	664756.970	3191614.480
18600	664682.540	3191681.260
18700	664587.530	3191708.970
18800	664501.140	3191664.300
18900	664421.500	3191715.840
19000	664337.020	3191754.890
19100	664239.090	3191765.370
19200	664148.610	3191806.200
19300	664051.280	3191828.320
19400	663960.300	3191869.820
19500	663871.420	3191915.400
19600	663785.640	3191966.810
19700	663700.160	3192018.700
19800	663636.900	3192085.270
19900	663712.410	3192067.250
20000	663788.500	3192003.700

Chainage	Easting	Northing
20100	663875.360	3191954.290
20200	663966.060	3191912.190
20300	664058.370	3191881.960
20400	664025.390	3191942.930
20500	663927.740	3191963.990
20600	663838.300	3192008.580
20700	663767.020	3192077.580
20800	663706.010	3192156.810
20900	663645.740	3192236.590
21000	663605.950	3192327.820
21100	663582.380	3192425.010
21200	663548.300	3192518.600
21300	663500.770	3192606.490
21400	663461.980	3192698.610
21500	663412.060	3192785.080
21600	663347.570	3192861.500
21700	663284.790	3192939.210
21800	663225.240	3193018.760
21900	663147.010	3193081.040
22000	663068.640	3193143.160
22100	662986.490	3193125.970
22200	662920.330	3193053.480
22300	662998.370	3193003.630
22400	663077.690	3192947.810
22500	663022.650	3192918.850
22600	662941.330	3192975.590
22700	662861.640	3193034.240
22800	662787.630	3193100.680
22900	662692.560	3193131.110
23000	662596.360	3193158.420
23100	662509.710	3193207.190
23200	662412.820	3193218.260
23300	662314.700	3193199.620
23400	662225.950	3193241.390
23500	662143.570	3193298.080
23600	662049.440	3193326.360
23700	661954.510	3193353.310
23800	661854.580	3193349.690
23900	661761.120	3193373.230
24000	661695.280	3193448.130
24100	661609.580	3193492.190
24200	661511.920	3193510.380
24300	661418.210	3193545.210
24400	661322.570	3193574.420
24500	661230.040	3193611.250
24600	661143.860	3193661.990
24700	661068.200	3193725.950
24800	661007.770	3193805.410
24900	660925.640	3193860.690
25000	660828.010	3193855.680

Chainage	Easting	Northing
25100	660728.760	3193845.020
25200	660630.340	3193855.840
25300	660531.900	3193870.880
25400	660436.920	3193898.720
25500	660346.190	3193940.760
25600	660255.460	3193982.810
25700	660171.870	3194036.880
25800	660124.730	3194122.980
25900	660068.060	3194204.300
26000	660006.550	3194283.130
26100	659935.900	3194353.840
26200	659864.080	3194423.420
26300	659787.700	3194487.640
26400	659705.890	3194545.150
26500	659646.550	3194622.910
26600	659644.060	3194716.260
26700	659684.570	3194807.450
26800	659704.220	3194905.470
26900	659726.180	3195003.010
27000	659721.710	3195101.600
27100	659678.880	3195179.280
27200	659579.110	3195186.130
27300	659553.310	3195112.820
27400	659546.360	3195013.100
27500	659473.500	3194953.780
27600	659377.740	3194929.990
27700	659309.750	3194996.170
27800	659266.110	3195085.660
27900	659171.730	3195114.860
28000	659074.820	3195131.040
28100	658980.650	3195164.090
28200	658900.150	3195222.570
28300	658829.310	3195293.150
28400	658752.210	3195355.960
28500	658656.250	3195382.740
28600	658558.280	3195402.790
28700	658460.060	3195421.440
28800	658360.230	3195425.650
28900	658264.160	3195438.280
29000	658321.750	3195480.950
29100	658420.410	3195464.640
29200	658519.070	3195448.330
29300	658617.730	3195432.010
29400	658712.570	3195401.060
29500	658740.630	3195454.570
29600	658641.230	3195464.090
29700	658543.340	3195483.090
29800	658443.730	3195491.600
29900	658347.530	3195518.730
30000	658249.620	3195538.450

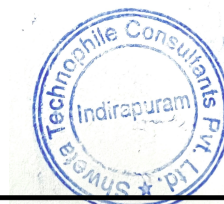
CENTER LINE COORDINATES

Chainage	Easting	Northing
30100	658150.550	3195552.050
30200	658051.480	3195565.640
30300	657955.180	3195590.990
30400	657868.390	3195640.540
30500	657782.630	3195691.970
30600	657696.570	3195742.890
30700	657605.990	3195785.130
30800	657509.290	3195810.440
30900	657410.730	3195823.210
31000	657314.890	3195795.770
31100	657219.770	3195765.020
31200	657123.820	3195736.840
31300	657024.870	3195735.710
31400	656936.790	3195781.280
31500	656856.150	3195840.410
31600	656775.500	3195899.550
31700	656694.150	3195957.680
31800	656608.070	3196008.490
31900	656517.590	3196051.010
32000	656426.210	3196091.640
32100	656334.840	3196132.270
32200	656243.460	3196172.900
32300	656150.140	3196207.970
32400	656140.170	3196269.930
32500	656230.720	3196229.400
32600	656323.740	3196192.750
32700	656417.910	3196159.110
32800	656512.080	3196125.440
32900	656604.120	3196086.470
33000	656691.820	3196038.500
33100	656776.680	3195985.600
33200	656859.660	3195929.920
33300	656937.610	3195867.290
33400	656991.070	3195911.480
33500	656906.980	3195964.020
33600	656824.340	3196020.340
33700	656741.710	3196076.660
33800	656657.820	3196131.030
33900	656569.160	3196177.200
34000	656476.340	3196214.300
34100	656381.560	3196246.180
34200	656286.780	3196278.060
34300	656201.360	3196328.760
34400	656142.300	3196408.660
34500	656097.210	3196497.920
34600	656052.120	3196587.180
34700	656006.630	3196676.220
34800	655937.690	3196747.640
34900	655859.230	3196809.650
35000	655781.100	3196872.040

Chainage	Easting	Northing
35100	655725.510	3196954.210
35200	655686.140	3197046.000
35300	655657.430	3197141.690
35400	655645.950	3197240.980
35500	655657.660	3197339.980
35600	655671.240	3197438.140
35700	655607.310	3197514.290
35800	655539.490	3197587.780
35900	655447.040	3197587.340
36000	655353.710	3197551.610
36100	655284.130	3197481.370
36200	655225.400	3197400.430
36300	655153.640	3197332.110
36400	655067.990	3197280.480
36500	654973.950	3197248.510
36600	654874.200	3197251.020
36700	654774.500	3197258.830
36800	654674.810	3197266.630
36900	654580.990	3197298.110
37000	654507.800	3197365.900
37100	654423.790	3197415.350
37200	654329.110	3197445.760
37300	654233.140	3197469.070
37400	654137.220	3197493.170
37500	654127.670	3197554.010
37600	654218.960	3197515.650
37700	654312.590	3197482.630
37800	654412.140	3197479.890
37900	654502.480	3197438.870
38000	654571.870	3197367.170
38100	654628.110	3197393.160
38200	654544.680	3197447.200
38300	654465.600	3197507.920
38400	654367.630	3197522.510
38500	654276.110	3197562.670
38600	654183.150	3197599.320
38700	654086.960	3197625.790
38800	654074.320	3197687.910
38900	654163.880	3197645.700
39000	654259.210	3197616.610
39100	654355.980	3197591.730
39200	654449.150	3197558.940
39300	654542.230	3197523.380
39400	654569.860	3197576.730
39500	654470.370	3197585.370
39600	654380.100	3197624.860
39700	654286.660	3197659.290
39800	654190.820	3197687.830
39900	654096.350	3197720.320
40000	654004.070	3197758.840



PLAN & PROFILE



LEGEND

PLAN:-

PROP.CENTER LINE

PROP.CARRIAGEWAY EDGE

PROP.EARTHEN SHOULDER

TOE LINE

PROP.RIGHT OF WAY

CULVERT

MAJOR/MINOR BRIDGE

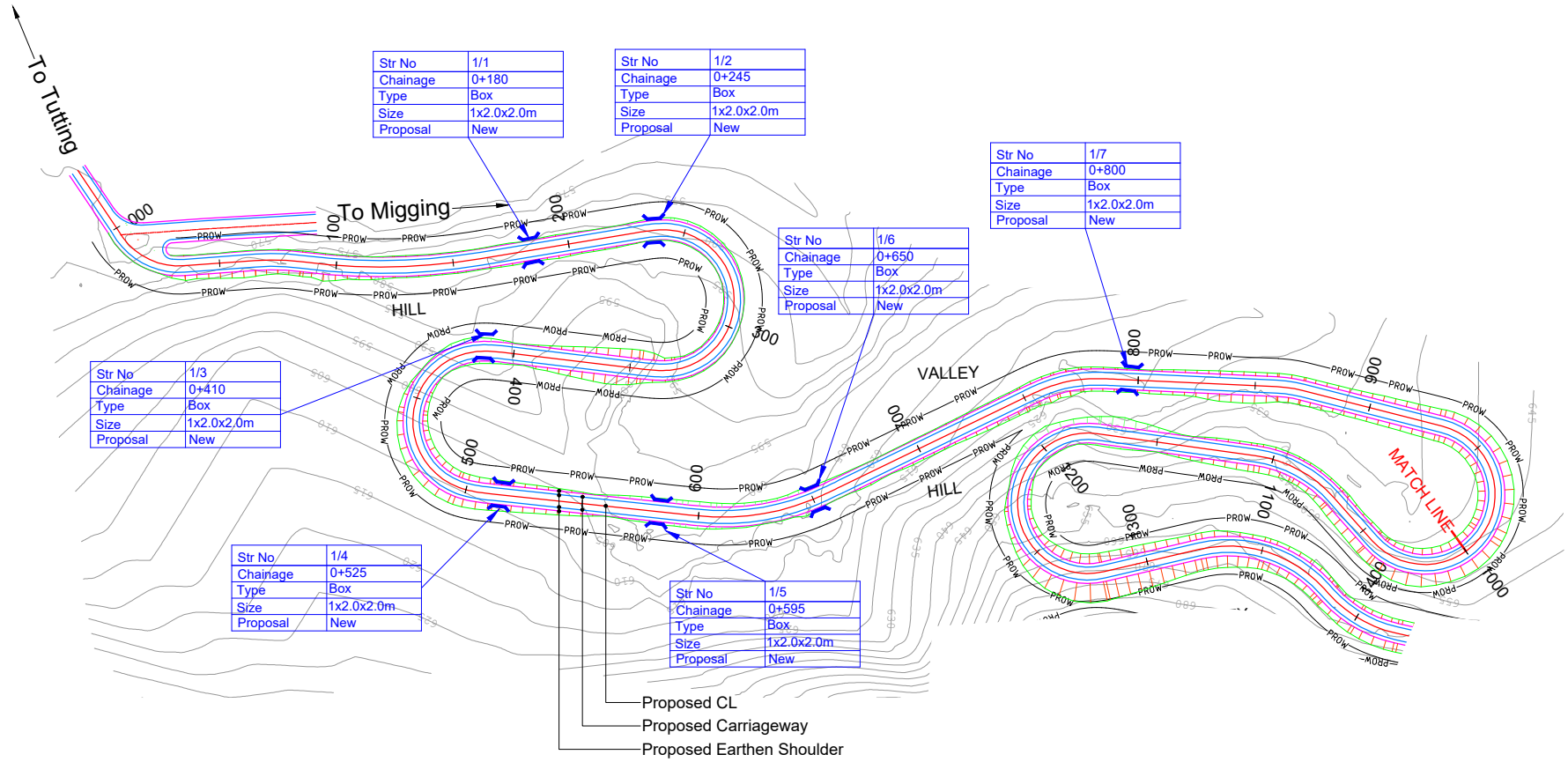
PROFILE:-

PROP.ROAD LEVEL

EXISTING GROUND LEVEL

GROUND LEVEL @6M LEFT

GROUND LEVEL @6M RIGHT



HIP NO. 1 AT CH. 17.859				HIP NO. 2 AT CH. 75.157				HIP NO. 3 AT CH. 124.22				HIP NO. 4 AT CH. 287.61				HIP NO. 5 AT CH. 456.883				HIP NO. 6 AT CH. 627.943				HIP NO. 7 AT CH. 769.94				HIP NO. 8 AT CH. 865.011				HIP NO. 9 AT CH. 988.073			
X = 671614.027		Y = 3196774.425		X = 671588.553		Y = 3196720.716		X = 671558.971		Y = 3196681.195		X = 671359.832		Y = 3196340.749		X = 671558.176		Y = 3196779.532		X = 671389.605		Y = 3196594.873		X = 671376.834		Y = 3196453.249		X = 671327.454		Y = 3196372.041		X = 671348.677		Y = 3196394.07	
R (m)	30	Ls (m)		R (m)	100	Ls (m)		R (m)	260	Ls (m)		R (m)	30	Ls (m)	15	R (m)	30	Ls (m)	15	R (m)	100	Ls (m)	15	R (m)	55	Ls (m)	15	R (m)	55	Ls (m)		R (m)	30	Ls (m)	
Dc(deg)	65.1644	S(m)		Dc(deg)	11.4408	S(m)		Dc(deg)	16.6852	S(m)		Dc(deg)	167.6436	S(m)	0.31	Dc(deg)	152.084	S(m)	0.31	Dc(deg)	23.3297	S(m)	0.09	Dc(deg)	12.829	S(m)	0.17	Dc(deg)	11.7123	S(m)		Dc(deg)	214.1716	S(m)	
Lc(m)	34.12	Ts(deg)		Lc(m)	19.97	Ts(deg)		Lc(m)	75.72	Ts(deg)		Lc(m)	87.78	Ts(deg)	14.3239	Lc(m)	79.63	Ts(deg)	14.3239	Lc(m)	40.72	Ts(deg)	4.2972	Lc(m)	12.31	Ts(deg)	7.8131	Lc(m)	11.24	Ts(deg)		Lc(m)	112.14	Ts(deg)	
Ts(m)	19.173	Δ(deg)	65.1644	Ts(m)	10.017	Δ(deg)	11.4408	Ts(m)	38.127	Δ(deg)	16.6852	Ts(m)	-204.2722	Δ(deg)	196.2915	Ts(m)	-4738.022	Δ(deg)	180.7319	Ts(m)	36.127	Δ(deg)	31.9241	Ts(m)	21.484	Δ(deg)	28.4552	Ts(m)	5.641	Δ(deg)	11.7123	Ts(m)	-97.603	Δ(deg)	214.1716
Es(m)	5.603	e(%)	10.00%	Es(m)	0.5	e(%)	10.00%	Es(m)	2.781	e(%)	4.27%	Es(m)	-243.915	e(%)	10.00%	Es(m)	-4775.604	e(%)	10.00%	Es(m)	4.104	e(%)	10.00%	Es(m)	1.916	e(%)	10.00%	Es(m)	0.289	e(%)	10.00%	Es(m)	-132.109	e(%)	10.00%
V(km/hr)	30	We(m)	1.5	V(km/hr)	50	We(m)	0.9	V(km/hr)	50	We(m)	0.6	V(km/hr)	30	We(m)	1.5	V(km/hr)	30	We(m)	1.5	V(km/hr)	50	We(m)	0.9	V(km/hr)	40	We(m)	1.2	V(km/hr)	40	We(m)	1.2	V(km/hr)	30	We(m)	1.5
CurveType	LEFT			CurveType	RIGHT			CurveType	LEFT			CurveType	RIGHT			CurveType	LEFT			CurveType	LEFT			CurveType	RIGHT			CurveType	LEFT			CurveType	LEFT		

LEGEND

PLAN:-

PROP.CENTER LINE

PROP.CARRIAGEWAY EDGE

PROP.EARTHEN SHOULDER

TOE LINE

PROP.RIGHT OF WAY

CULVERT

MAJOR/MINOR BRIDGE

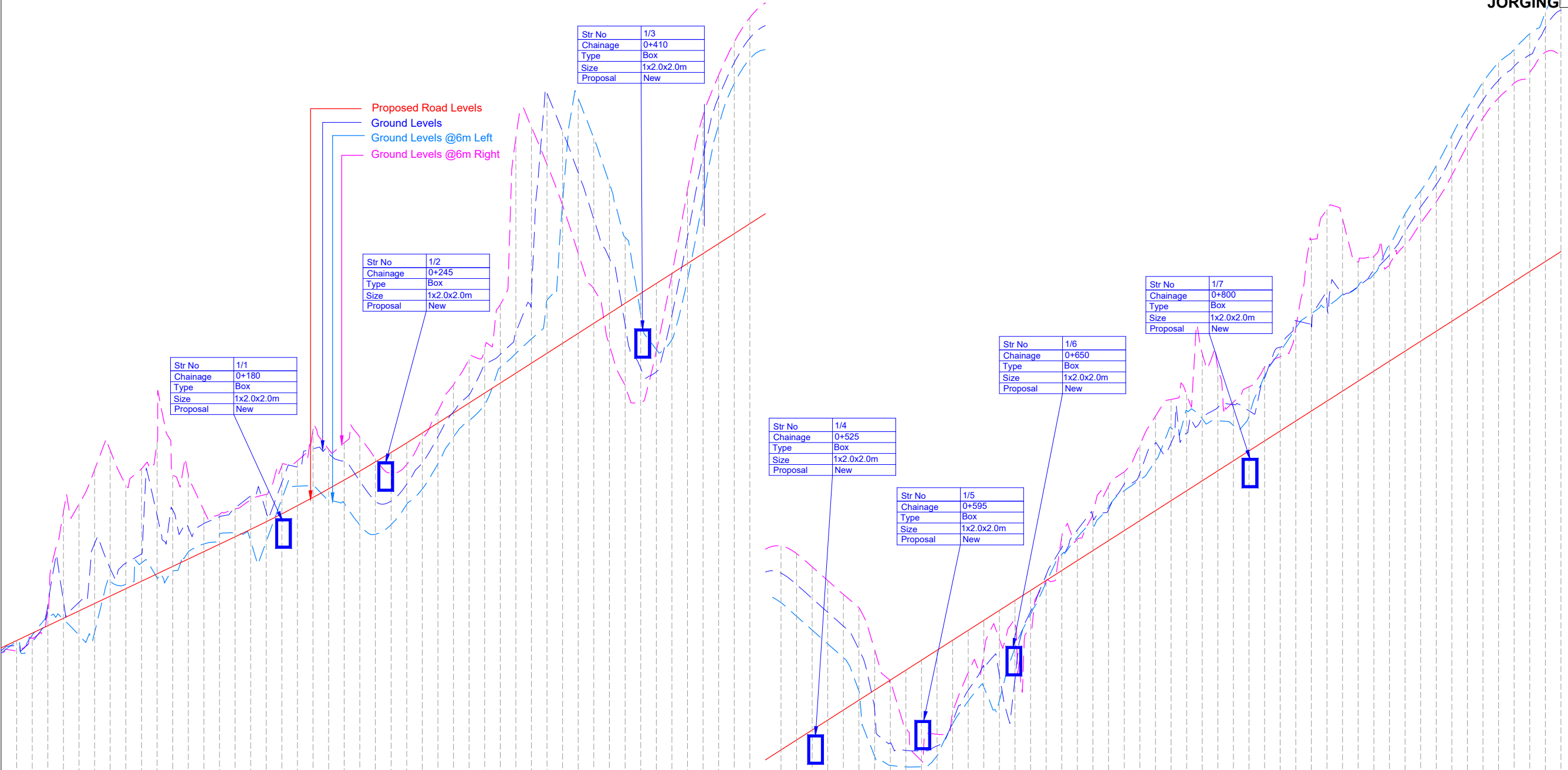
PROFILE:-

PROP.ROAD LEVEL

EXISTING GROUND LEVEL

GROUND LEVEL @6M LEFT

GROUND LEVEL @6M RIGHT

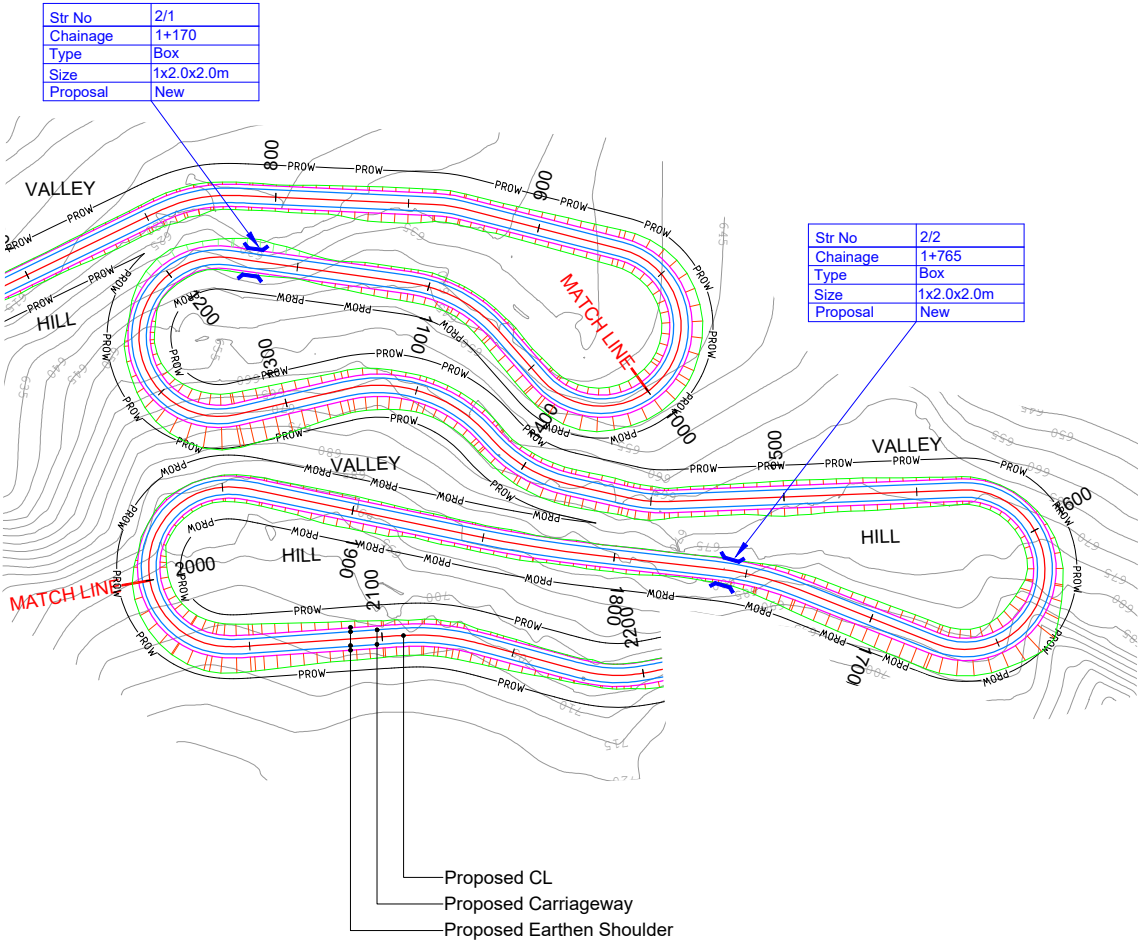


DATUM = 560	
DATUM = 595	
Proposed Road Levels	569.861 569.697 570.040 570.335 570.810 570.300 570.810 571.284 571.759 572.233 572.707 573.182 573.656 574.131 574.605 575.079 575.554 576.028 576.503 576.977 577.456 577.949 578.456 578.976 579.510 580.058 580.619 581.194 581.783 582.386 583.002 583.632 584.270 584.909 585.548 586.187 586.825 587.464 588.103 588.742 589.380 590.019 590.658 591.297 591.936 592.574 593.213 593.852 594.491 595.129 595.768 596.407 597.046 597.685 598.323 598.962 599.601 600.240 600.878 601.517 602.156 602.795 603.434 604.072 604.711 605.350 605.989 606.627 607.266 607.905 608.544 609.183 609.821 610.460 611.099 611.738 612.376 613.015 613.654 614.293 614.932 615.570 616.209 616.848 617.487 618.125 618.764 619.403 620.042 620.680 621.319 621.958 622.597 623.236 623.874 624.513 625.152 625.791 626.429 627.068 627.707 628.346 628.985 629.623 630.262
Ground Levels	569.578 569.539 570.040 570.300 570.810 571.284 571.759 572.233 572.707 573.182 573.656 574.131 574.605 575.079 575.554 576.028 576.503 576.977 577.456 577.949 578.456 578.976 579.510 580.058 580.619 581.194 581.783 582.386 583.002 583.632 584.270 584.909 585.548 586.187 586.825 587.464 588.103 588.742 589.380 590.019 590.658 591.297 591.936 592.574 593.213 593.852 594.491 595.129 595.768 596.407 597.046 597.685 598.323 598.962 599.601 600.240 600.878 601.517 602.156 602.795 603.434 604.072 604.711 605.350 605.989 606.627 607.266 607.905 608.544 609.183 609.821 610.460 611.099 611.738 612.376 613.015 613.654 614.293 614.932 615.570 616.209 616.848 617.487 618.125 618.764 619.403 620.042 620.680 621.319 621.958 622.597 623.236 623.874 624.513 625.152 625.791 626.429 627.068 627.707 628.346 628.985 629.623 630.262
Ground Levels @6m Left	569.578 569.539 570.040 570.300 570.810 571.284 571.759 572.233 572.707 573.182 573.656 574.131 574.605 575.079 575.554 576.028 576.503 576.977 577.456 577.949 578.456 578.976 579.510 580.058 580.619 581.194 581.783 582.386 583.002 583.632 584.270 584.909 585.548 586.187 586.825 587.464 588.103 588.742 589.380 590.019 590.658 591.297 591.936 592.574 593.213 593.852 594.491 595.129 595.768 596.407 597.046 597.685 598.323 598.962 599.601 600.240 600.878 601.517 602.156 602.795 603.434 604.072 604.711 605.350 605.989 606.627 607.266 607.905 608.544 609.183 609.821 610.460 611.099 611.738 612.376 613.015 613.654 614.293 614.932 615.570 616.209 616.848 617.487 618.125 618.764 619.403 620.042 620.680 621.319 621.958 622.597 623.236 623.874 624.513 625.152 625.791 626.429 627.068 627.707 628.346 628.985 629.623 630.262
Ground Levels @6m Right	569.578 569.539 570.040 570.300 570.810 571.284 571.759 572.233 572.707 573.182 573.656 574.131 574.605 575.079 575.554 576.028 576.503 576.977 577.456 577.949 578.456 578.976 579.510 580.058 580.619 581.194 581.783 582.386 583.002 583.632 584.270 584.909 585.548 586.187 586.825 587.464 588.103 588.742 589.380 590.019 590.658 591.297 591.936 592.574 593.213 593.852 594.491 595.129 595.768 596.407 597.046 597.685 598.323 598.962 599.601 600.240 600.878 601.517 602.156 602.795 603.434 604.072 604.711 605.350 605.989 606.627 607.266 607.905 608.544 609.183 609.821 610.460 611.099 611.738 612.376 613.015 613.654 614.293 614.932 615.570 616.209 616.848 617.487 618.125 618.764 619.403 620.042 620.680 621.319 621.958 622.597 623.236 623.874 624.513 625.152 625.791 626.429 627.068 627.707 628.346 628.985 629.623 630.262
Vertical Alignment	G = 4.744% L = 151.507 R = 7300.494 L = 120.000 G = 6.388% L = 767.290
Horizontal Alignment	R: 30.000 L: 34.120 L = 0.799 R: 100.000 L: 19.968 L = 30.254 R: 260.000 L: 75.715 L = 1.221 L = 66.645 L = 15.000 R: 30.000 L: 87.778 L = 55.568 L = 15.000 R: 30.000 L: 79.631 L = 15.000 L = 80.886 L = 15.000 R: 100.000 L: 40.718 L = 15.000 L = 85.481 R: 55.000 L: 12.314 L = 68.293 R: 55.000 L: 11.242 L = 61.371 R: 30.000 L: 112.140
Chainage	00.000 10.000 20.000 30.000 40.000 50.000 60.000 70.000 80.000 90.000 100.000 110.000 120.000 130.000 140.000 150.000 160.000 170.000 180.000 190.000 200.000 210.000 220.000 230.000 240.000 250.000 260.000 270.000 280.000 290.000 300.000 310.000 320.000 330.000 340.000 350.000 360.000 370.000 380.000 390.000 400.000 410.000 420.000 430.000 440.000 450.000 460.000 470.000 480.000 490.000 500.000 510.000 520.000 530.000 540.000 550.000 560.000 570.000 580.000 590.000 600.000 610.000 620.000 630.000 640.000 650.000 660.000 670.000 680.000 690.000 700.000 710.000 720.000 730.000 740.000 750.000 760.000 770.000 780.000 790.000 800.000 810.000 820.000 830.000 840.000 850.000 860.000 870.000 880.000 890.000 900.000 910.000 920.000 930.000 940.000 950.000 960.000 970.000 980.000 990.000 1000.000

LEGEND

PLAN:-
PROP.CENTER LINE
PROP.CARRIAGEWAY EDGE
PROP.EARTHEN SHOULDER
TOE LINE
PROP.RIGHT OF WAY
CULVERT
MAJOR/MINOR BRIDGE

PROFILE:-
PROP.ROAD LEVEL
EXISTING GROUND LEVEL
GROUND LEVEL @6M LEFT
GROUND LEVEL @6M RIGHT



HIP NO. 10 AT CH. 1088.026	HIP NO. 11 AT CH. 1228.361	HIP NO. 12 AT CH. 1352.223	HIP NO. 13 AT CH. 1401.295	HIP NO. 14 AT CH. 1449.466	HIP NO. 15 AT CH. 1620.479	HIP NO. 16 AT CH. 1745.69	HIP NO. 17 AT CH. 1830.267	HIP NO. 18 AT CH. 1992.82
X = 671296.95 Y = 3196383.173	X = 671252.788 Y = 3196325.67	X = 671277.284 Y = 3196408.792	X = 671225.663 Y = 3196397.609	X = 671192.862 Y = 3196361.503	X = 671203.896 Y = 3196382.866	X = 671149.491 Y = 3196339.158	X = 671199.256 Y = 3196407.687	X = 671397.93 Y = 3196734.734
R (m) 55 Ls (m)	R (m) 30 Ls (m)	R (m) 55 Ls (m)	R (m) 55 Ls (m)	R (m) 55 Ls (m)	R (m) 30 Ls (m)	R (m) 125 Ls (m)	R (m) 500 Ls (m)	R (m) 30 Ls (m) 15
Dc(deg) 40.579 S(m)	Dc(deg) 201.1044 S(m)	Dc(deg) 61.3565 S(m)	Dc(deg) 35.5223 S(m)	Dc(deg) 14.9375 S(m)	Dc(deg) 203.906 S(m)	Dc(deg) 15.2352 S(m)	Dc(deg) 5.3938 S(m)	Dc(deg) 167.1432 S(m) 0.31
Lc(m) 38.95 Ts(deg)	Lc(m) 105.3 Ts(deg)	Lc(m) 58.9 Ts(deg)	Lc(m) 34.1 Ts(deg)	Lc(m) 14.34 Ts(deg)	Lc(m) 106.77 Ts(deg)	Lc(m) 33.24 Ts(deg)	Lc(m) 47.07 Ts(deg)	Lc(m) 87.52 Ts(deg) 14.3239
Ts(m) 20.334 Δ(deg) 40.579	Ts(m) -161.04 Δ(deg) 201.1044	Ts(m) 32.628 Δ(deg) 61.3565	Ts(m) 17.617 Δ(deg) 35.5223	Ts(m) 7.21 Δ(deg) 14.9375	Ts(m) -141.71 Δ(deg) 203.906	Ts(m) 16.718 Δ(deg) 15.2352	Ts(m) 23.552 Δ(deg) 5.3938	Ts(m) -211.072 Δ(deg) 195.7911
Es(m) 3.638 e(%) 10.00%	Es(m) -193.81 e(%) 10.00%	Es(m) 8.95 e(%) 10.00%	Es(m) 2.753 e(%) 10.00%	Es(m) 0.471 e(%) 10.00%	Es(m) -174.85 e(%) 10.00%	Es(m) 1.113 e(%) 8.89%	Es(m) 0.554 e(%) -2.50%	Es(m) -250.64 e(%) 10.00%
V(km/hr) 40 We(m) 1.2	V(km/hr) 30 We(m) 1.5	V(km/hr) 40 We(m) 1.2	V(km/hr) 40 We(m) 1.2	V(km/hr) 40 We(m) 1.2	V(km/hr) 30 We(m) 1.5	V(km/hr) 50 We(m) 0.6	V(km/hr) 50 We(m) Nil	V(km/hr) 30 We(m) 1.5
CurveType LEFT	CurveType RIGHT	CurveType LEFT	CurveType LEFT	CurveType RIGHT	CurveType LEFT	CurveType RIGHT	CurveType LEFT	CurveType LEFT

LEGEND

PLAN:-

PROP.CENTER LINE

PROP.CARRIAGEWAY EDGE

PROP.EARTHEN SHOULDER

TOE LINE

PROP.RIGHT OF WAY

CULVERT

MAJOR/MINOR BRIDGE

PROFILE:-

PROP.ROAD LEVEL

EXISTING GROUND LEVEL

GROUND LEVEL @6M LEFT

GROUND LEVEL @6M RIGHT

Str No	2/1
Chainage	1+170
Type	Box
Size	1x2.0x2.0m
Proposal	New

Str No	2/2
Chainage	1+765
Type	Box
Size	1x2.0x2.0m
Proposal	New

Proposed Road Levels
Ground Levels
Ground Levels @6m Left
Ground Levels @6m Right

DATUM = 625		DATUM = 650
Proposed Road Levels	642.742	701.134
Ground Levels	647.574	701.058
Ground Levels @6m Left	641.764	701.058
Ground Levels @6m Right	642.742	701.134
Vertical Alignment	R=80744.970 L=400.000	
Horizontal Alignment	R: 55.000 L: 38.953 L=68.210 R: 30.000 L: 105.298 L=41.764 R: 55.000 L: 58.898 L=23.953 R: 55.000 L: 23.953 L=110.461 R: 30.000 L: 106.764 L=55.210 R: 125.000 L: 33.238 L=44.423 R: 500.000 L: 47.069 L=80.260 L=15.000 R: 30.00 L: 87.51	
Chainage	1000.000	2000.000

LEGEND

PLAN:-

PROP.CENTER LINE

PROP.CARRIAGEWAY EDGE

PROP.EARTHEN SHOULDER

TOE LINE

PROP.RIGHT OF WAY

CULVERT

MAJOR/MINOR BRIDGE

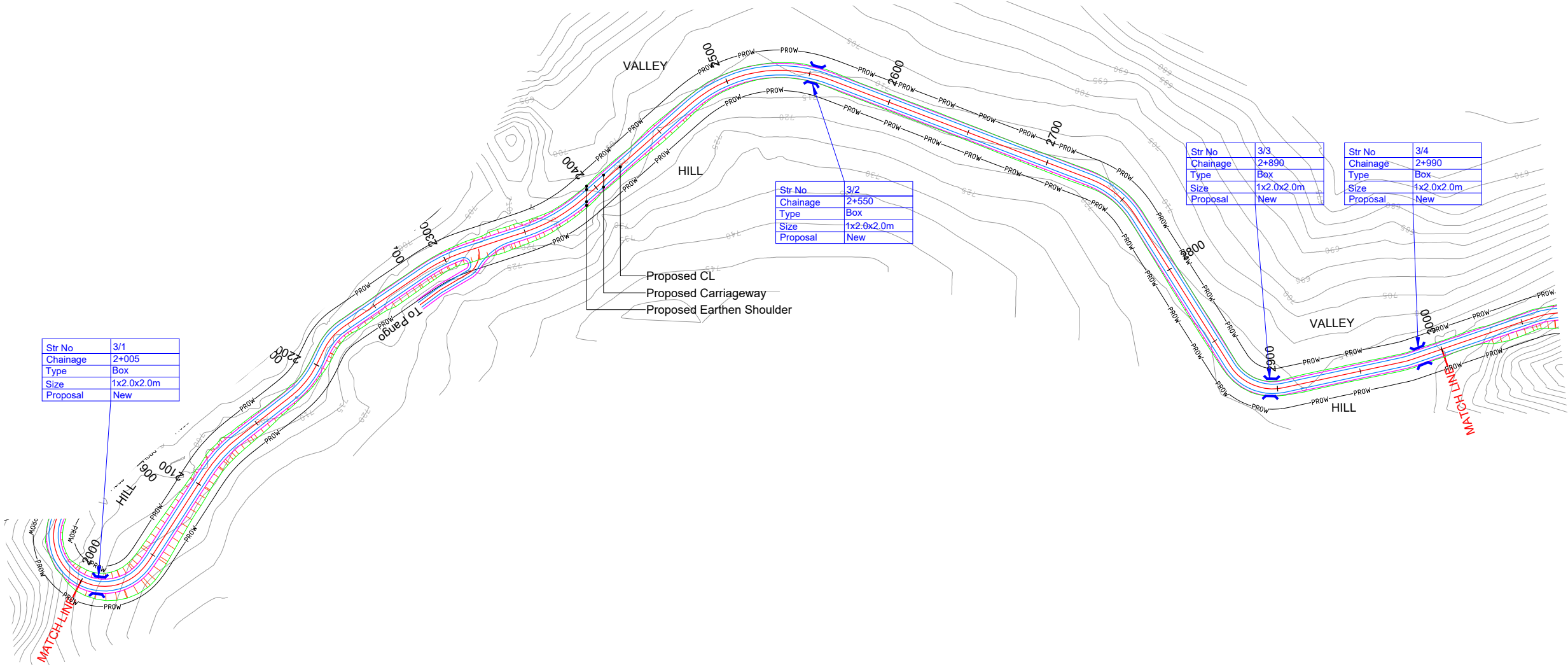
PROFILE:-

PROP.ROAD LEVEL

EXISTING GROUND LEVEL

GROUND LEVEL @6M LEFT

GROUND LEVEL @6M RIGHT



HIP NO. 19 AT CH. 2121.62				HIP NO. 20 AT CH. 2188.497				HIP NO. 21 AT CH. 2218.931				HIP NO. 22 AT CH. 2299.131				HIP NO. 23 AT CH. 2370.065				HIP NO. 24 AT CH. 2517.919				HIP NO. 25 AT CH. 2745.211				HIP NO. 26 AT CH. 2885.199				HIP NO. 27 AT CH. 2978.197			
X = 671188.355		Y = 3196454.871		X = 671143.021		Y = 3196405.78		X = 671132.176		Y = 3196377.154		X = 671071.502		Y = 3196324.399		X = 671008.297		Y = 3196292.111		X = 670905.064		Y = 3196182.664		X = 670680.18		Y = 3196232.952		X = 670589.067		Y = 3196343.555		X = 670498.837		Y = 3196311.742	
R (m)	80	Ls (m)	15	R (m)	50	Ls (m)	15	R (m)	35	Ls (m)		R (m)	90	Ls (m)	15	R (m)	100	Ls (m)	15	R (m)	80	Ls (m)	15	R (m)	55	Ls (m)		R (m)	30	Ls (m)		R (m)	55	Ls (m)	
Dc(deg)	8.4339	S(m)	0.12	Dc(deg)	9.3759	S(m)	0.19	Dc(deg)	30.1785	S(m)	0.12	Dc(deg)	6.7991	S(m)	0.1	Dc(deg)	14.882	S(m)	0.09	Dc(deg)	51.6271	S(m)	0.12	Dc(deg)	36.8964	S(m)		Dc(deg)	69.941	S(m)		Dc(deg)	6.7036	S(m)	
Lc(m)	11.78	Ts(deg)	5.3715	Lc(m)	8.18	Ts(deg)	8.5944	Lc(m)	18.43	Ts(deg)		Lc(m)	10.68	Ts(deg)	4.7746	Lc(m)	25.97	Ts(deg)	4.2972	Lc(m)	72.08	Ts(deg)	5.3715	Lc(m)	35.42	Ts(deg)		Lc(m)	36.62	Ts(deg)		Lc(m)	6.44	Ts(deg)	
Ts(m)	21.032	Δ(deg)	19.1769	Ts(m)	19.342	Δ(deg)	26.5646	Ts(m)	9.437	Δ(deg)	30.1785	Ts(m)	20.44	Δ(deg)	16.3484	Ts(m)	28.296	Δ(deg)	23.4764	Ts(m)	55.992	Δ(deg)	62.37	Ts(m)	18.347	Δ(deg)	36.8964	Ts(m)	20.983	Δ(deg)	69.941	Ts(m)	3.221	Δ(deg)	6.7036
Es(m)	1.255	e(%)	8.89%	Es(m)	1.569	e(%)	10.00%	Es(m)	1.25	e(%)	10.00%	Es(m)	1.025	e(%)	7.90%	Es(m)	2.228	e(%)	10.00%	Es(m)	13.653	e(%)	8.89%	Es(m)	2.98	e(%)	10.00%	Es(m)	6.61	e(%)	10.00%	Es(m)	0.094	e(%)	10.00%
V(km/hr)	40	We(m)	0.9	V(km/hr)	40	We(m)	1.2	V(km/hr)	30	We(m)	1.5	V(km/hr)	40	We(m)	0.9	V(km/hr)	50	We(m)	0.9	V(km/hr)	40	We(m)	0.9	V(km/hr)	40	We(m)	1.2	V(km/hr)	30	We(m)	1.5	V(km/hr)	40	We(m)	1.2
CurveType	RIGHT			CurveType	LEFT			CurveType	RIGHT			CurveType	RIGHT			CurveType	LEFT			CurveType	RIGHT			CurveType	RIGHT			CurveType	LEFT			CurveType	LEFT		

LEGEND

PLAN:-

PROP.CENTER LINE

PROP.CARRIAGEWAY EDGE

PROP.EARTHEN SHOULDER

TOE LINE

PROP.RIGHT OF WAY

CULVERT

MAJOR/MINOR BRIDGE

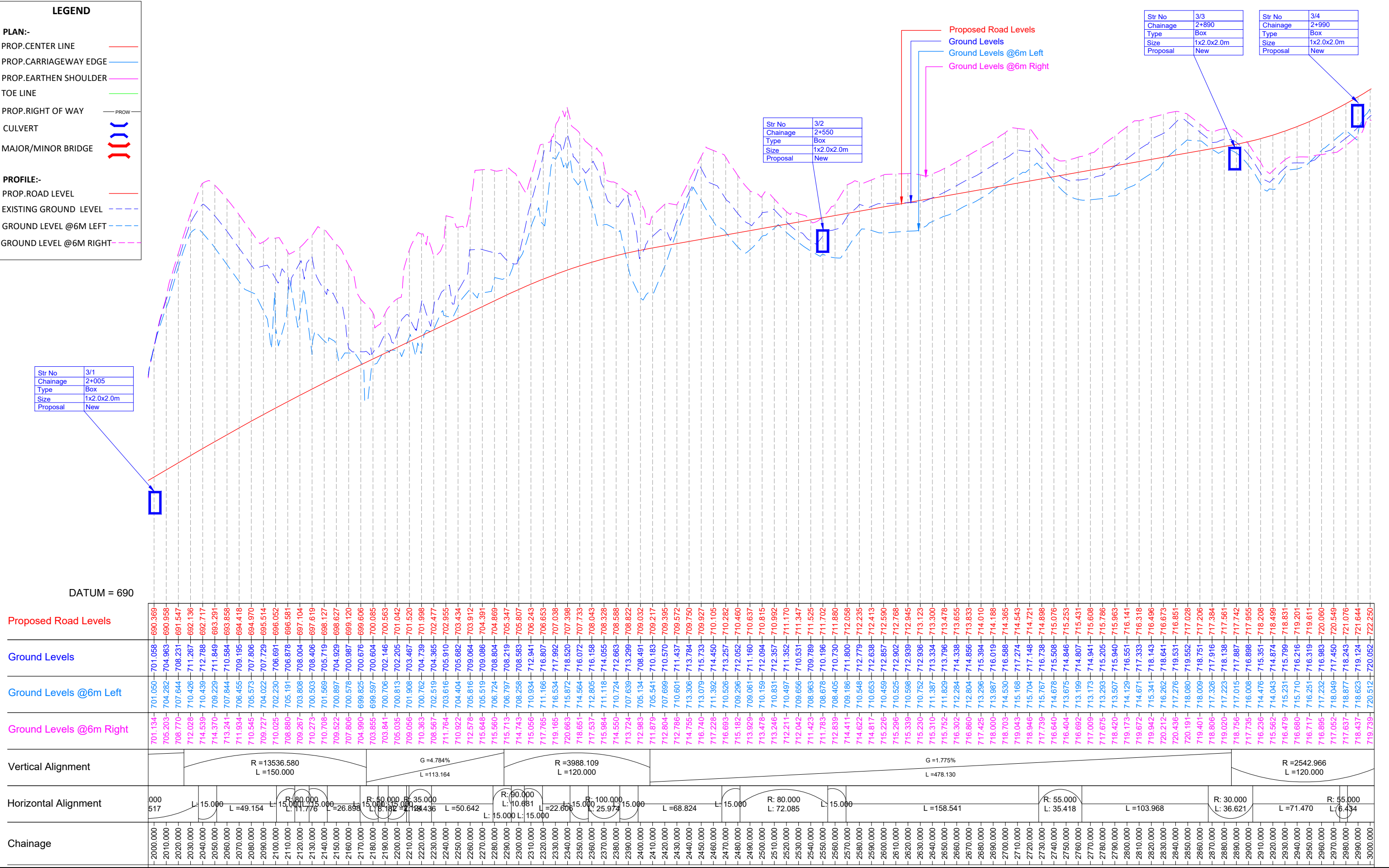
PROFILE:-

PROP.ROAD LEVEL

EXISTING GROUND LEVEL

GROUND LEVEL @6M LEFT

GROUND LEVEL @6M RIGHT



LEGEND

PLAN:-

PROP.CENTER LINE

PROP.CARRIAGEWAY EDGE

PROP.EARTHEN SHOULDER

TOE LINE

PROP.RIGHT OF WAY

CULVERT

MAJOR/MINOR BRIDGE

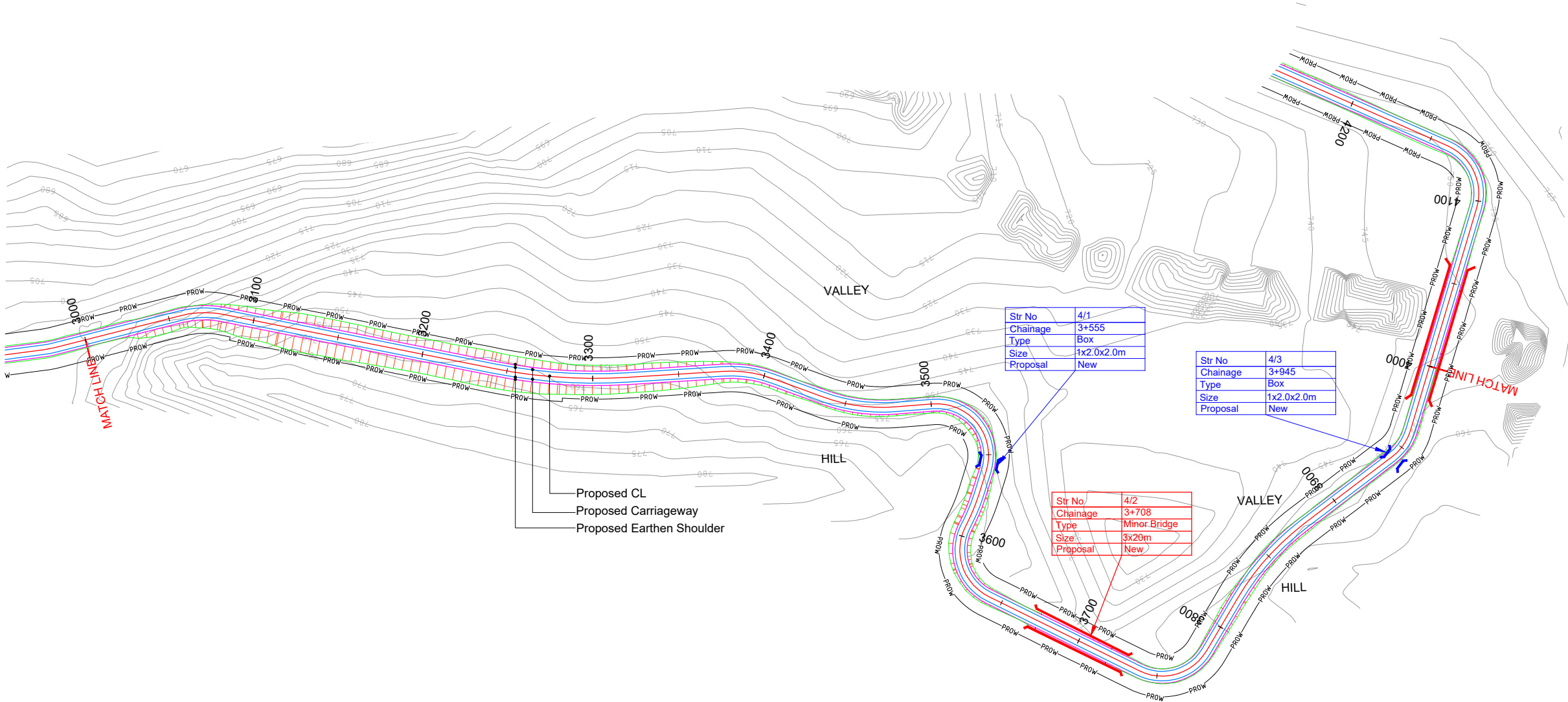
PROFILE:-

PROP.ROAD LEVEL

EXISTING GROUND LEVEL

GROUND LEVEL @6M LEFT

GROUND LEVEL @6M RIGHT



HIP NO. 28 AT CH. 3069.579				HIP NO. 29 AT CH. 3281.225				HIP NO. 30 AT CH. 3390.482				HIP NO. 31 AT CH. 3457.923				HIP NO. 32 AT CH. 3530.264				HIP NO. 33 AT CH. 3582.645				HIP NO. 34 AT CH. 3617.983				HIP NO. 35 AT CH. 3761.672				HIP NO. 36 AT CH. 3848.262				HIP NO. 37 AT CH. 3951.733			
X = 670416.601	Y = 3196271.413			X = 670204.54	Y = 3196269.133			X = 670098.859	Y = 3196239.751			X = 670031.559	Y = 3196249.355			X = 669947.373	Y = 3196224.575			X = 669953.809	Y = 3196291.751			X = 669964.518	Y = 3196332.264			X = 669813.756	Y = 3196370.93			X = 669784.239	Y = 3196283.412			X = 669716.15	Y = 3196204.579		
R (m)	55	Ls (m)		R (m)	300	Ls (m)		R (m)	70	Ls (m)		R (m)	100	Ls (m)		R (m)	30	Ls (m)		R (m)	100	Ls (m)		R (m)	30	Ls (m)		R (m)	30	Ls (m)		R (m)	150	Ls (m)		R (m)	30	Ls (m)	
Dc(deg)	25.5081	S(m)		Dc(deg)	14.9208	S(m)		Dc(deg)	23.6582	S(m)		Dc(deg)	24.5226	S(m)		Dc(deg)	111.8738	S(m)		Dc(deg)	9.3335	S(m)		Dc(deg)	90.4223	S(m)		Dc(deg)	85.747	S(m)		Dc(deg)	22.18	S(m)		Dc(deg)	36.1384	S(m)	
Lc(m)	24.49	Ts(deg)		Lc(m)	78.13	Ts(deg)		Lc(m)	28.9	Ts(deg)		Lc(m)	42.8	Ts(deg)		Lc(m)	58.58	Ts(deg)		Lc(m)	16.29	Ts(deg)		Lc(m)	47.35	Ts(deg)		Lc(m)	44.9	Ts(deg)		Lc(m)	58.07	Ts(deg)		Lc(m)	18.92	Ts(deg)	
Ts(m)	12.449	Δ(deg)	25.5081	Ts(m)	39.285	Δ(deg)	14.9208	Ts(m)	14.661	Δ(deg)	23.6582	Ts(m)	21.733	Δ(deg)	24.5226	Ts(m)	44.371	Δ(deg)	111.8738	Ts(m)	8.163	Δ(deg)	9.3335	Ts(m)	30.222	Δ(deg)	90.4223	Ts(m)	27.852	Δ(deg)	85.747	Ts(m)	29.402	Δ(deg)	22.18	Ts(m)	9.788	Δ(deg)	36.1384
Es(m)	1.391	e(%)	10.00%	Es(m)	2.561	e(%)	3.70%	Es(m)	1.519	e(%)	10.00%	Es(m)	2.334	e(%)	10.00%	Es(m)	23.561	e(%)	10.00%	Es(m)	0.333	e(%)	10.00%	Es(m)	12.584	e(%)	10.00%	Es(m)	10.936	e(%)	10.00%	Es(m)	2.854	e(%)	7.41%	Es(m)	1.556	e(%)	10.00%
V(km/hr)	40	We(m)	1.2	V(km/hr)	50	We(m)	0.6	V(km/hr)	40	We(m)	0.9	V(km/hr)	50	We(m)	0.9	V(km/hr)	30	We(m)	1.5	V(km/hr)	50	We(m)	0.9	V(km/hr)	30	We(m)	1.5	V(km/hr)	30	We(m)	1.5	V(km/hr)	50	We(m)	0.6	V(km/hr)	30	We(m)	1.5
CurveType	RIGHT			CurveType	LEFT			CurveType	RIGHT			CurveType	LEFT			CurveType	RIGHT			CurveType	RIGHT			CurveType	LEFT			CurveType	LEFT			CurveType	RIGHT			CurveType	LEFT		

PROP. ROAD LEVEL ————

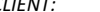
EXISTING GROUND LEVEL - - - -

GROUND LEVEL @6M LEFT - - - -

GROUND LEVEL @6M RIGHT - - - -

Str No	4/3
Chainage	3+945
Type	Box
Size	1x2.0x2.0m
Proposal	New



R7	AUG 2023	FINAL DPR	CLIENT:  National Highways & Infrastructure Development Corporation Limited. 3rd Floor, PTI building, 4-Parliament Street, New Delhi-110001	PROJECT: Consultancy Services for Preparation of Feasibility study and Detailed Project Report for Two laning of Pango to Jorging Road (Length - 90km) for execution on EPC Mode in the state of Arunachal Pradesh under SARDP-NE Phase 'B'	DPR CONSULTANT:  Shweta Technophile Consultants Pvt. Ltd. (222-223,313, Rajhans Plaza, Ahinsa Khand-I, Indirapuram, Ghaziabad, UP-201014)		DRAWN BY	ASHISH RAWAT	TITLE: PLAN AND PROFILE FROM CH:3+000 TO CH:4+000
R6	JAN 2023	MODIFIED DETAILED PROJECT REPORT					DESIGN BY	RAM SONKAR	
R5	JULY 2022	MODIFIED DETAILED PROJECT REPORT					CHECKED BY	GEETA JINDAL	
R4	AUG 2019	MODIFIED DETAILED PROJECT REPORT					HORIZONTAL SCALE 1:2000	VERTICAL SCALE 1:200	
R3	JULY 2018	DETAILED PROJECT REPORT					DRAWING NO.		A
REV.	DATE	DESCRIPTION OF REVISIONS					NHIDCL/PANGO-JORGING/STC/PP- 08		

LEGEND

PLAN:-

PROP.CENTER LINE

PROP.CARRIAGEWAY EDGE

PROP.EARTHEN SHOULDER

TOE LINE

PROP.RIGHT OF WAY

CULVERT

MAJOR/MINOR BRIDGE

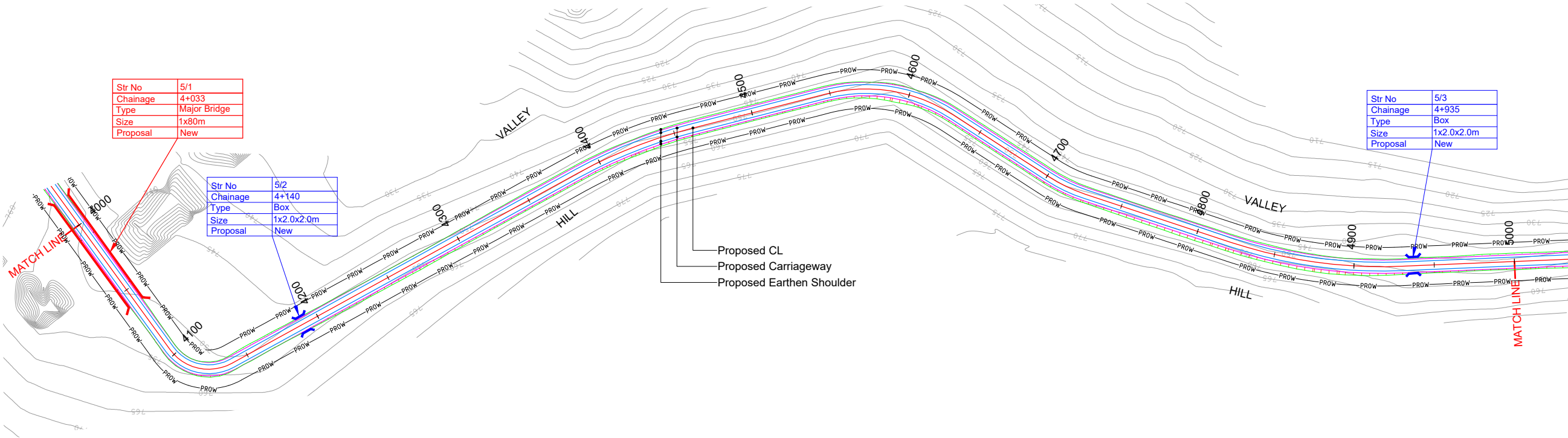
PROFILE:-

PROP.ROAD LEVEL

EXISTING GROUND LEVEL

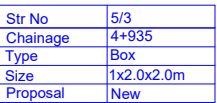
GROUND LEVEL @6M LEFT

GROUND LEVEL @6M RIGHT



HIP NO. 38 AT CH. 4117.5				HIP NO. 39 AT CH. 4422.668				HIP NO. 40 AT CH. 4588.747				HIP NO. 41 AT CH. 4713.528				HIP NO. 42 AT CH. 4876.01			
X = 669702.213		Y = 3196034.292		X = 670005.661		Y = 3195970.248		X = 670156.925		Y = 3195895.352		X = 670192.85		Y = 3195773.162		X = 670276.863		Y = 3195633.303	
R (m)	30	Ls (m)		R (m)	300	Ls (m)		R (m)	100	Ls (m)		R (m)	100	Ls (m)		R (m)	300	Ls (m)	
Dc(deg)	82.7599	S(m)		Dc(deg)	14.4236	S(m)		Dc(deg)	47.2753	S(m)		Dc(deg)	14.6087	S(m)		Dc(deg)	20.7384	S(m)	
Lc(m)	43.33	Ts(deg)		Lc(m)	75.52	Ts(deg)		Lc(m)	82.51	Ts(deg)		Lc(m)	25.5	Ts(deg)		Lc(m)	108.59	Ts(deg)	
Ts(m)	26.43	Δ(deg)	82.7599	Ts(m)	37.962	Δ(deg)	14.4236	Ts(m)	43.767	Δ(deg)	47.2753	Ts(m)	12.818	Δ(deg)	14.6087	Ts(m)	54.894	Δ(deg)	20.7384
Es(m)	9.982	e(%)	10.00%	Es(m)	2.392	e(%)	3.70%	Es(m)	9.158	e(%)	10.00%	Es(m)	0.818	e(%)	10.00%	Es(m)	4.981	e(%)	3.70%
V(km/hr)	30	We(m)	1.5	V(km/hr)	50	We(m)	0.6	V(km/hr)	50	We(m)	0.9	V(km/hr)	50	We(m)	0.9	V(km/hr)	50	We(m)	0.6
CurveType	LEFT			CurveType	RIGHT			CurveType	RIGHT			CurveType	LEFT			CurveType	LEFT		

GROUND LEVEL: 0.01181000

[illegible]A3

LEGEND

PLAN:-

PROP.CENTER LINE

PROP.CARRIAGEWAY EDGE

PROP.EARTHEN SHOULDER

TOE LINE

PROP.RIGHT OF WAY

CULVERT

MAJOR/MINOR BRIDGE

PROFILE:-

PROP.ROAD LEVEL

EXISTING GROUND LEVEL

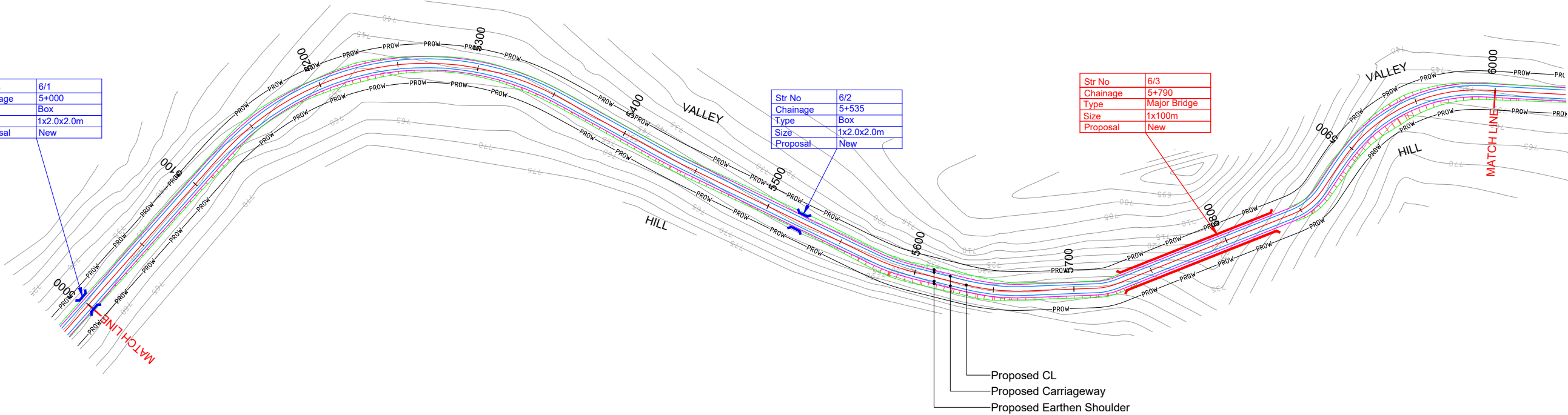
GROUND LEVEL @6M LEFT

GROUND LEVEL @6M RIGHT

Str No	6/1
Chainage	5+000
Type	Box
Size	1x2.0x2.0m
Proposal	New

Str No	6/2
Chainage	5+535
Type	Box
Size	1x2.0x2.0m
Proposal	New

Str No	6/3
Chainage	5+790
Type	Major Bridge
Size	1x100m
Proposal	New



HIP NO. 43 AT CH. 5238.6				HIP NO. 44 AT CH. 5434.559				HIP NO. 45 AT CH. 5585.22				HIP NO. 46 AT CH. 5651.211				HIP NO. 47 AT CH. 5720.463				HIP NO. 48 AT CH. 5856.273				HIP NO. 49 AT CH. 5941.692			
X = 670567.355 Y = 3195392.459				X = 670485.056 Y = 3195199.036				X = 670427.499 Y = 3195059.823				X = 670415.532 Y = 3194994.951				X = 670421.257 Y = 3194925.866				X = 670478.712 Y = 3194802.32				X = 670553.133 Y = 3194753.757			
R (m)	170	Ls (m)	25	R (m)	300	Ls (m)		R (m)	100	Ls (m)	20	R (m)	125	Ls (m)	15	R (m)	40	Ls (m)		R (m)	40	Ls (m)		R (m)	100	Ls (m)	15
Dc(deg)	68.8554	S(m)	0.15	Dc(deg)	2.8119	S(m)		Dc(deg)	0.6715	S(m)	0.17	Dc(deg)	9.2173	S(m)	0.08	Dc(deg)	19.4562	S(m)		Dc(deg)	34.462	S(m)		Dc(deg)	50.6563	S(m)	0.09
Lc(m)	204.3	Ts(deg)	4.2129	Lc(m)	14.72	Ts(deg)		Lc(m)	1.17	Ts(deg)	5.7296	Lc(m)	20.11	Ts(deg)	3.4377	Lc(m)	13.58	Ts(deg)		Lc(m)	24.06	Ts(deg)		Lc(m)	88.41	Ts(deg)	4.2972
Ts(m)	148.524	Δ(deg)	77.2812	Ts(m)	7.363	Δ(deg)	2.8119	Ts(m)	20.64	Δ(deg)	12.1307	Ts(m)	25.181	Δ(deg)	16.0928	Ts(m)	6.858	Δ(deg)	19.4562	Ts(m)	12.406	Δ(deg)	34.462	Ts(m)	64.416	Δ(deg)	59.2507
Es(m)	47.84	e(%)	6.54%	Es(m)	0.09	e(%)	3.70%	Es(m)	0.734	e(%)	10.00%	Es(m)	1.324	e(%)	8.89%	Es(m)	0.584	e(%)	10.00%	Es(m)	1.88	e(%)	10.00%	Es(m)	15.142	e(%)	10.00%
V(km/hr)	50	We(m)	0.6	V(km/hr)	50	We(m)	0.6	V(km/hr)	50	We(m)	0.9	V(km/hr)	50	We(m)	0.6	V(km/hr)	30	We(m)	1.5	V(km/hr)	30	We(m)	1.5	V(km/hr)	50	We(m)	0.9
CurveType	RIGHT			CurveType	LEFT			CurveType	LEFT			CurveType	LEFT			CurveType	LEFT			CurveType	LEFT			CurveType	RIGHT		

LEGEND

PLAN:-

PROP.CENTER LINE

PROP.CARRIAGEWAY EDGE

PROP.EARTHEN SHOULDER

TOE LINE

PROP.RIGHT OF WAY

CULVERT

MAJOR/MINOR BRIDGE

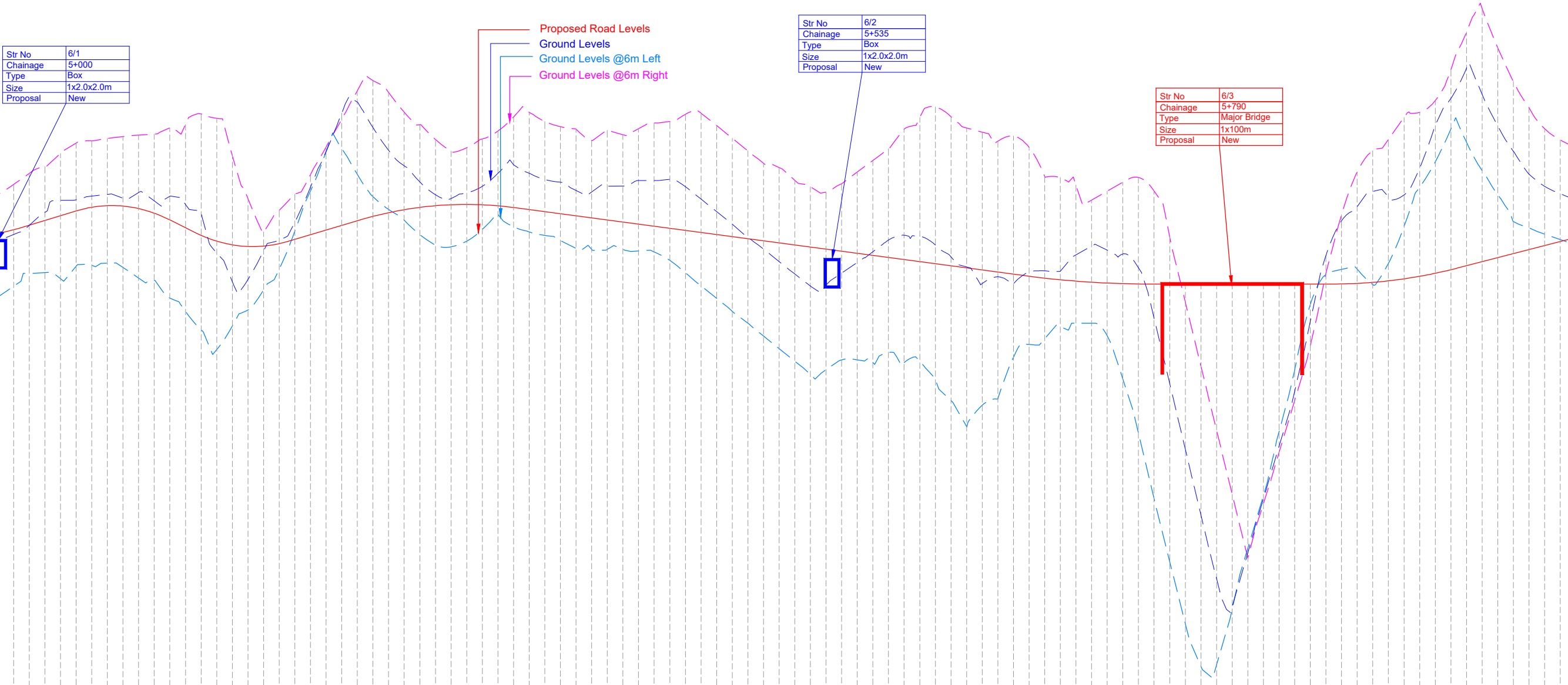
PROFILE:-

PROP.ROAD LEVEL

EXISTING GROUND LEVEL

GROUND LEVEL @6M LEFT

GROUND LEVEL @6M RIGHT



DATUM = 715	
Proposed Road Levels	749.386 742.823 746.406 746.910 750.021 743.513 746.823 747.126 750.734 744.334 747.409 747.423 751.171 744.389 748.238 747.724 752.008 743.994 749.008 748.026 752.669 744.793 749.040 748.328 752.820 744.852 749.276 748.566 752.971 744.992 749.391 748.671 753.087 744.714 749.138 748.642 753.180 744.043 749.513 748.480 753.244 743.888 748.975 748.184 753.650 742.754 749.268 747.754 753.863 741.899 748.748 747.255 754.537 740.723 748.185 746.770 754.252 739.458 745.632 746.399 751.870 740.973 743.809 746.160 749.118 741.993 743.949 746.054 746.993 743.273 745.771 746.081 748.372 744.604 746.464 746.240 749.406 747.040 747.617 746.518 750.653 749.598 749.841 746.814 752.420 752.125 752.125 747.111 754.191 752.324 754.579 747.407 756.017 750.662 755.290 747.704 756.671 749.248 753.657 747.982 755.903 748.428 752.208 748.217 754.649 747.738 751.218 748.409 753.846 746.817 750.195 748.558 752.898 746.138 749.371 748.664 752.149 746.042 749.128 748.727 752.373 746.398 749.485 748.747 752.936 747.148 749.907 748.724 753.442 748.114 750.736 748.659 754.333 747.314 751.290 748.550 754.643 746.988 750.744 748.417 754.050 746.764 750.344 748.283 753.721 746.432 750.164 748.150 753.561 745.940 749.640 748.017 752.849 745.877 749.547 747.883 753.491 745.872 749.913 747.750 753.203 745.874 749.925 747.617 753.594 745.771 750.278 747.483 753.962 745.709 750.271 747.350 754.055 745.170 750.354 747.217 754.512 744.373 749.879 747.084 754.584 743.540 749.095 746.950 753.790 742.739 748.288 746.817 752.979 741.912 747.488 746.684 752.172 741.145 746.643 746.550 751.379 740.332 745.896 746.417 751.105 739.522 745.092 746.284 750.288 738.719 744.301 746.150 749.880 737.863 743.523 746.017 750.078 738.801 744.357 745.750 750.817 738.807 745.036 745.617 751.561 738.644 745.722 745.484 752.305 739.273 746.467 745.351 753.554 738.624 746.776 745.217 754.311 738.729 746.704 745.084 754.977 737.531 746.152 744.951 754.355 736.199 745.393 744.817 753.636 734.541 744.747 744.684 753.368 735.906 743.688 744.551 752.793 736.305 744.118 744.417 753.114 738.976 743.675 744.284 752.395 739.794 744.415 744.151 750.546 740.161 744.488 744.031 750.465 740.924 744.480 743.928 749.986 741.155 745.516 743.841 749.030 741.155 746.082 743.771 749.596 740.344 745.822 743.717 750.162 737.578 745.573 743.680 750.472 734.115 744.687 743.660 749.608 729.920 741.482 743.656 746.671 725.908 737.286 743.656 742.493 721.930 733.090 743.656 738.397 719.207 728.894 743.656 734.301 719.295 724.807 743.656 730.206 722.874 723.050 743.656 726.124 726.767 726.471 743.656 729.607 730.119 729.937 743.656 732.876 734.211 733.279 743.656 736.206 738.170 736.817 743.656 739.737 742.338 741.257 743.656 744.345 744.249 745.488 743.656 748.095 744.590 747.702 743.661 750.820 744.607 748.598 743.694 752.181 743.616 749.580 743.760 752.895 744.983 749.252 743.658 754.308 747.328 749.355 743.989 754.634 749.848 751.063 744.151 755.391 751.470 753.836 744.346 757.388 753.571 755.533 744.572 759.770 752.720 757.466 744.826 761.275 750.903 755.769 745.084 758.763 749.358 753.779 745.341 756.603 747.651 752.155 745.599 754.932 747.258 750.680 745.856 753.593 746.843 749.905 746.113 752.872 746.496 749.427 746.371
Ground Levels	742.823 746.406 746.910 750.021 743.513 746.823 747.126 750.734 744.334 747.409 747.423 751.171 744.389 748.238 747.724 752.008 743.994 749.008 748.026 752.669 744.793 749.040 748.328 752.820 744.852 749.276 748.566 752.971 744.992 749.391 748.671 753.087 744.714 749.138 748.642 753.180 744.043 749.513 748.480 753.244 743.888 748.975 748.184 753.650 742.754 749.268 747.754 753.863 741.899 748.748 747.255 754.537 740.723 748.185 746.770 754.252 739.458 745.632 746.399 751.870 740.973 743.809 746.160 749.118 741.993 743.949 746.054 746.993 743.273 745.771 746.081 748.372 744.604 746.464 746.240 749.406 747.040 747.617 746.518 750.653 749.598 749.841 746.814 752.420 752.125 752.125 747.111 754.191 752.324 754.579 747.407 756.017 750.662 755.290 747.704 756.671 749.248 753.657 747.982 755.903 748.428 752.208 748.217 754.649 747.738 751.218 748.409 753.846 746.817 750.195 748.558 752.898 746.138 749.371 748.664 752.149 746.042 749.128 748.727 752.373 746.398 749.485 748.747 752.936 747.148 749.907 748.724 753.442 748.114 750.736 748.659 754.333 747.314 751.290 748.550 754.643 746.988 750.744 748.417 754.050 746.764 750.344 748.283 753.721 746.432 750.164 748.150 753.561 745.940 749.640 748.017 752.849 745.877 749.547 747.883 753.491 745.872 749.913 747.750 753.203 745.874 749.925 747.617 753.594 745.771 750.278 747.483 753.962 745.709 750.271 747.350 754.055 745.170 750.354 747.217 754.512 744.373 749.879 747.084 754.584 743.540 749.095 746.950 753.790 742.739 748.288 746.817 752.979 741.912 747.488 746.684 752.172 741.145 746.643 746.550 751.379 740.332 745.896 746.417 751.105 739.522 745.092 746.284 750.288 738.719 744.301 746.150 749.880 737.863 743.523 746.017 750.078 738.801 744.357 745.750 750.817 738.807 745.036 745.617 751.561 738.644 745.722 745.484 752.305 739.273 746.467 745.351 753.554 738.624 746.776 745.217 754.311 738.729 746.704 745.084 754.977 737.531 746.152 744.951 754.355 736.199 745.393 744.817 753.636 734.541 744.747 744.684 753.368 735.906 743.688 744.551 752.793 736.305 744.118 744.417 753.114 738.976 743.675 744.284 752.395 739.794 744.415 744.151 750.546 740.161 744.488 744.031 750.465 740.924 744.480 743.928 749.986 741.155 745.516 743.841 749.030 741.155 746.082 743.771 749.596 740.344 745.822 743.717 750.162 737.578 745.573 743.680 750.472 734.115 744.687 743.660 749.608 729.920 741.482 743.656 746.671 725.908 737.286 743.656 742.493 721.930 733.090 743.656 738.397 719.207 728.894 743.656 734.301 719.295 724.807 743.656 730.206 722.874 723.050 743.656 726.124 726.767 726.471 743.656 729.607 730.119 729.937 743.656 732.876 734.211 733.279 743.656 736.206 738.170 736.817 743.656 739.737 742.338 741.257 743.656 744.345 744.249 745.488 743.656 748.095 744.590 747.702 743.661 750.820 744.607 748.598 743.694 752.181 743.616 749.580 743.760 752.895 744.983 749.252 743.658 754.308 747.328 749.355 743.989 754.634 749.848 751.063 744.151 755.391 751.470 753.836 744.346 757.388 753.571 755.533 744.572 759.770 752.720 757.466 744.826 761.275 750.903 755.769 745.084 758.763 749.358 753.779 745.341 756.603 747.651 752.155 745.599 754.932 747.258 750.680 745.856 753.593 746.843 749.905 746.113 752.872 746.496 749.427 746.371
Ground Levels @6m Left	742.823 746.406 746.910 750.021 743.513 746.823 747.126 750.734 744.334 747.409 747.423 751.171 744.389 748.238 747.724 752.008 743.994 749.008 748.026 752.669 744.793 749.040 748.328 752.820 744.852 749.276 748.566 752.971 744.992 749.391 748.671 753.087 744.714 749.138 748.642 753.180 744.043 749.513 748.480 753.244 743.888 748.975 748.184 753.650 742.754 749.268 747.754 753.863 741.899 748.748 747.255 754.537 740.723 748.185 746.770 754.252 739.458 745.632 746.399 751.870 740.973 743.809 746.160 749.118 741.993 743.949 746.054 746.993 743.273 745.771 746.081 748.372 744.604 746.464 746.240 749.406 747.040 747.617 746.518 750.653 749.598 749.841 746.814 752.420 752.125 752.125 747.111 754.191 752.324 754.579 747.407 756.017 750.662 755.290 747.704 756.671 749.248 753.657 747.982 755.903 748.428 752.208 748.217 754.649 747.738 751.218 748.409 753.846 746.817 750.195 748.558 752.898 746.138 749.371 748.664 752.149 746.042 749.128 748.727 752.373 746.398 749.485 748.747 752.936 747.148 749.907 748.724 753.442 748.114 750.736 748.659 754.333 747.314 751.290 748.550 754.643 746.988 750.744 748.417 754.050 746.764 750.344 748.283 753.721 746.432 750.164 748.150 753.561 745.940 749.640 748.017 752.849 745.877 749.547 747.883 753.491 745.872 749.913 747.750 753.203 745.874 749.925 747.617 753.594 745.771 750.278 747.483 753.962 745.709 750.271 747.350 754.055 745.170 750.354 747.217 754.512 744.373 749.879 747.084 754.584 743.540 749.095 746.950 753.790 742.739 748.288 746.817 752.979 741.912 747.488 746.684 752.172 741.145 746.643 746.550 751.379 740.332 745.896 746.417 751.105 739.522 745.092 746.284 750.288 738.719 744.301 746.150 749.880 737.863 743.523 746.017 750.078 738.801 744.357 745.750 750.817 738.807 745.036 745.617 751.561 738.644 745.722 745.484 752.305 739.273 746.467 745.351 753.554 738.624 746.776 745.217 754.311 738.729 746.704 745.084 754.977 737.531 746.152 744.951 754.355 736.199 745.393 744.817 753.636 734.541 744.747 744.684 753.368 735.906 743.688 744.551 752.793 736.305 744.118 744.417 753.114 738.976 743.675 744.284 752.395 739.794 744.415 744.151 750.546 740.161 744.488 744.031 750.465 740.924 744.480 743.928 749.986 741.155 745.516 743.841 749.030 741.155 746.082 743.771 749.596 740.344 745.822 743.717 750.162 737.578 745.573 743.680 750.472 734.115 744.687 743.660 749.608 729.920 741.482 743.656 746.671 725.908 737.286 743.656 742.493 721.930 733.090 743.656 738.397 719.207 728.894 743.656 734.301 719.295 724.807 743.656 730.206 722.874 723.050 743.656 726.124 726.767 726.471 743.656 729.607 730.119 729.937 743.656 732.876 734.211 733.279 743.656 736.206 738.170 736.817 743.656 739.737 742.338 741.257 743.656 744.345 744.249 745.488 743.656 748.095 744.590 747.702 743.661 750.820 744.607 748.598 743.694 752.181 743.616 749.580 743.760 752.895 744.983 749.252 743.658 754.308 747.328 749.355 743.989 754.634 749.848 751.063 744.151 755.391 751.470 753.836 744.346 757.388 753.571 755.533 744.572 759.770 752.720 757.466 744.826 761.275 750.903 755.769 745.084 758.763 749.358 753.779 745.341 756.603 747.651 752.155 745.599 754.932 747.258 750.680 745.856 753.593 746.843 749.905 746.113 752.872 746.496 749.427 746.371
Ground Levels @6m Right	749.386 742.823 746.406 746.910 750.021 743.513 746.823 747.126 750.734 744.334 747.409 747.423 751.171 744.389 748.238 747.724 752.008 743.994 749.008 748.026 752.669 744.793 749.040 748.328 752.820 744.852 749.276 748.566 752.971 744.992 749.391 748.671 753.087 744.714 749.138 748.642 753.180 744.043 749.513 748.480 753.244 743.888 748.975 748.184 753.650 742.754 749.268 747.754 753.863 741.899 748.748 747.255 754.537 740.723 748.185 746.770 754.252 739.458 745.632 746.399 751.870 740.973 743.809 746.160 749.118 741.993 743.949 746.054 746.993 743.273 745.771 746.081 748.372 744.604 746.464 746.240 749.406 747.040 747.617 746.518 750.653 749.598 749.841 746.814 752.420 752.125 752.125 747.111 754.191 752.324 754.579 747.407 756.017 750.662 755.290 747.704 756.671 749.248 753.657 747.982 755.903 748.428 752.208 748.217 754.649 747.738 751.218 748.409 753.846 746.817 750.195 748.558 752.898 746.138 749.371 748.664 752.149 746.042 749.128 748.727 752.373 746.398 749.485 748.747 752.936 747.148 749.907 748.724 753.442 748.114 750.736 748.659 754.333 747.314 751.290 748.550 754.643 746.988 750.744 748.417 754.050 746.764 750.344 748.283 753.721 746.432 750.164 748.150 753.561 745.940 749.640 748.017 752.849 745.877 749.547 747.883 753.491 745.872 749.913 747.750 753.203 745.874 749.925 747.617 753.594 745.771 750.278 747.483 753.962 745.709 750.271 747.350 754.055 745.170 750.354 747.217 754.512 744.373 749.879 747.084 754.584 743.540 749.095 746.950 753.790 742.739 748.288 746.817 752.979 741.912 747.488 746.684 752.172 741.145 746.643 746.550 751.379 740.332 745.896 746.417 751.105 739.522 745.092 746.284 750.288 738.719 744.301 746.150 749.880 737.863 743.523 746.017 750.078 738.801 744.357 745.750 750.817 738.807 745.036 745.617 751.561 738.644 745.722 745.484 752.305 739.273 746.467 745.351 753.554 738.624 746.776 745.217 754.311 738.729 746.704 745.084 754.977 737.531 746.152 744.951 754.355 736.199 745.393 744.817 753.636 734.541 744.747 744.684 753.368 735.906 743.688 744.551 752.793 736.305 744.118 744.417 753.114 738.976 743.675 744.284 752.395 739.794 744.415 744.151 750.546 740.161 744.488 744.031 750.465 740.924 744.480 743.928 749.986 741.155 745.516 743.841 749.03

LEGEND

PLAN:-

PROP.CENTER LINE

PROP.CARRIAGEWAY EDGE

PROP.EARTHEN SHOULDER

TOE LINE

PROP.RIGHT OF WAY

CULVERT

MAJOR/MINOR BRIDGE

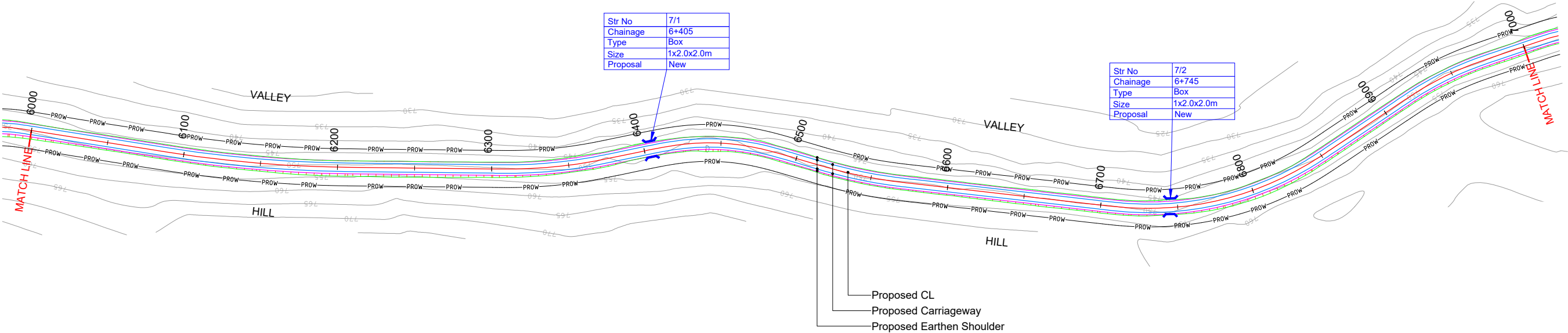
PROFILE:-

PROP.ROAD LEVEL

EXISTING GROUND LEVEL

GROUND LEVEL @6M LEFT

GROUND LEVEL @6M RIGHT



HIP NO. 50 AT CH. 6147.819				HIP NO. 51 AT CH. 6340.473				HIP NO. 52 AT CH. 6448.35				HIP NO. 53 AT CH. 6544.385				HIP NO. 54 AT CH. 6778.983				HIP NO. 55 AT CH. 6945.123			
X = 670557.612		Y = 3194544.553		X = 670587.088		Y = 3194354.01		X = 670621.906		Y = 3194251.764		X = 670613.547		Y = 3194155.986		X = 670627.486		Y = 3193919.939		X = 670738.775		Y = 3193794.033	
R (m)	800	Ls (m)		R (m)	300	Ls (m)	15	R (m)	150	Ls (m)	30	R (m)	300	Ls (m)	15	R (m)	200	Ls (m)	20	R (m)	200	Ls (m)	20
Dc(deg)	8.4197	S(m)		Dc(deg)	9.4588	S(m)	0.03	Dc(deg)	16.6796	S(m)	0.25	Dc(deg)	7.064	S(m)	0.03	Dc(deg)	34.6276	S(m)	0.08	Dc(deg)	9.3773	S(m)	0.08
Lc(m)	117.56	Ts(deg)		Lc(m)	49.53	Ts(deg)	1.4324	Lc(m)	43.67	Ts(deg)	5.7296	Lc(m)	36.99	Ts(deg)	1.4324	Lc(m)	120.87	Ts(deg)	2.8648	Lc(m)	32.73	Ts(deg)	2.8648
Ts(m)	58.887	Δ(deg)	8.4197	Ts(m)	39.891	Δ(deg)	12.3236	Ts(m)	52.65	Δ(deg)	28.1387	Ts(m)	33.561	Δ(deg)	9.9288	Ts(m)	83.529	Δ(deg)	40.3571	Ts(m)	36.53	Δ(deg)	15.1069
Es(m)	2.164	e(%)	-2.50%	Es(m)	1.773	e(%)	3.70%	Es(m)	4.897	e(%)	7.41%	Es(m)	1.16	e(%)	3.70%	Es(m)	13.164	e(%)	5.56%	Es(m)	1.831	e(%)	5.56%
V(km/hr)	50	We(m)	Nil	V(km/hr)	50	We(m)	0.6	V(km/hr)	50	We(m)	0.6	V(km/hr)	50	We(m)	0.6	V(km/hr)	50	We(m)	0.6	V(km/hr)	50	We(m)	0.6
CurveType	LEFT			CurveType	LEFT			CurveType	RIGHT			CurveType	LEFT			CurveType	LEFT			CurveType	RIGHT		

LEGEND

PLAN:-

PROP.CENTER LINE

PROP.CARRIAGEWAY EDGE

PROP.EARTHEN SHOULDER

TOE LINE

PROP.RIGHT OF WAY

CULVERT

MAJOR/MINOR BRIDGE

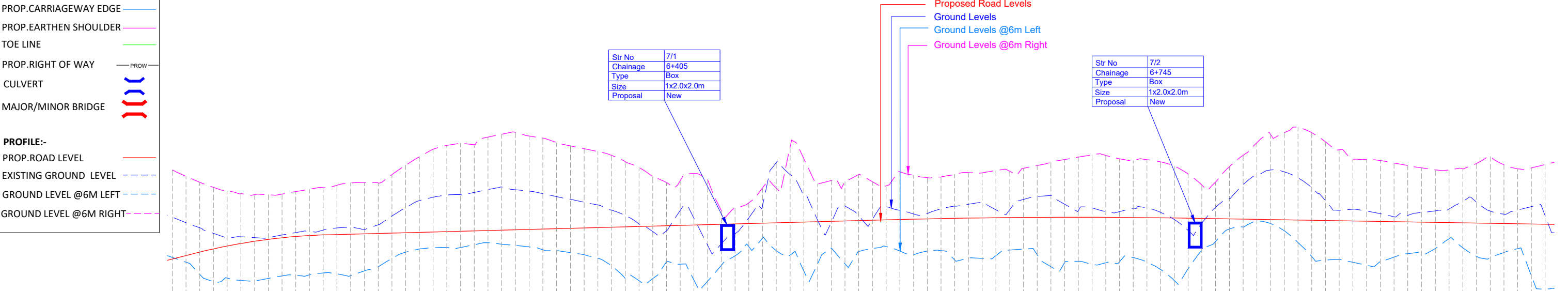
PROFILE:-

PROP.ROAD LEVEL

EXISTING GROUND LEVEL

GROUND LEVEL @6M LEFT

GROUND LEVEL @6M RIGHT



DATUM = 720	
Proposed Road Levels	752.872 746.496 749.427 746.371 752.392 746.149 749.020 746.628 751.967 745.266 748.649 746.881 751.592 744.729 748.244 747.112 751.327 744.992 747.904 747.320 751.131 744.817 747.998 747.506 751.061 744.774 747.933 747.668 751.049 744.966 747.939 747.807 751.105 745.150 748.131 747.923 751.283 745.189 748.299 748.015 751.455 745.230 748.378 748.085 751.566 745.368 748.485 748.132 751.741 745.298 748.639 748.160 751.911 745.170 748.683 748.187 751.952 745.512 748.518 748.213 751.917 745.805 748.861 748.240 752.514 746.411 749.505 748.267 753.204 746.871 750.111 748.293 753.812 747.109 750.622 748.320 754.366 747.199 750.875 748.347 754.641 747.218 751.032 748.373 754.799 747.210 751.057 748.400 754.690 747.416 751.221 748.427 755.247 747.563 751.436 748.453 755.457 747.457 751.615 748.480 755.582 747.370 751.418 748.506 755.325 747.258 751.317 748.533 755.175 747.049 751.135 748.560 754.845 746.978 750.919 748.586 754.610 746.848 750.724 748.613 754.404 746.688 750.510 748.640 754.195 746.438 750.310 748.666 753.917 745.870 749.932 748.693 753.461 744.977 749.547 748.720 753.043 744.799 748.926 748.746 752.373 744.955 748.376 748.773 751.935 746.166 748.432 748.800 752.076 746.001 749.924 748.826 752.594 744.844 749.344 748.853 752.143 744.765 747.371 748.880 749.898 745.929 747.481 748.906 750.058 746.616 748.220 748.933 750.463 747.266 749.372 748.959 751.549 747.929 750.248 748.986 751.531 746.980 753.393 749.013 754.514 746.664 752.529 749.039 753.690 745.513 751.153 749.066 751.842 746.007 749.222 749.093 752.094 747.182 749.036 749.119 752.006 746.030 750.242 749.146 752.537 746.929 749.522 749.173 752.003 747.142 749.255 749.199 751.706 747.288 750.190 749.226 752.722 746.959 749.923 749.252 752.468 746.696 749.655 749.276 752.297 746.952 749.694 749.299 752.345 746.992 750.026 749.319 752.537 746.298 750.222 749.337 752.666 746.438 750.361 749.354 752.655 746.427 750.496 749.368 752.813 746.629 749.962 749.381 752.764 747.027 749.961 749.391 752.976 747.097 750.711 749.400 753.178 746.688 750.930 749.406 753.414 745.824 751.001 749.411 753.616 746.113 750.366 749.413 753.790 746.211 749.904 749.414 753.963 746.001 750.092 749.412 753.918 746.101 749.836 749.409 753.671 746.166 749.824 749.404 753.547 746.476 750.078 749.396 753.607 746.154 750.092 749.387 753.445 745.611 749.769 749.376 753.128 744.803 749.249 749.363 752.572 745.668 748.459 749.347 751.755 747.023 748.994 749.331 751.986 747.667 750.130 749.314 753.091 748.562 750.762 749.297 753.919 748.712 751.778 749.280 754.837 749.154 752.437 749.264 755.449 748.960 752.856 749.247 755.568 748.435 752.720 749.230 755.969 747.585 752.289 749.213 755.566 746.564 751.561 749.197 754.905 746.301 750.635 749.180 754.327 746.360 749.918 749.163 753.644 746.141 749.996 749.146 753.628 745.920 749.862 749.129 753.547 746.208 749.674 749.113 753.364 746.519 749.453 749.096 753.177 746.767 749.548 749.079 753.012 746.780 749.760 749.062 752.869 747.146 749.882 749.046 752.857 747.841 750.010 749.029 752.944 747.208 750.569 749.012 753.325 746.572 750.520 748.995 753.816 746.470 749.871 748.979 753.235 746.852 749.642 748.962 752.944 747.125 749.943 748.945 753.004 745.158 750.189 748.928 753.251 744.189 749.536 748.911
Ground Levels	749.427 749.020 746.628 748.649 746.881 748.244 747.112 747.904 747.320 747.998 747.506 747.933 747.668 747.939 747.807 748.131 747.923 748.299 748.015 748.378 748.085 748.485 748.132 748.639 748.160 748.683 748.187 748.518 748.213 748.861 748.240 748.505 748.267 750.111 748.293 750.622 748.320 750.875 748.347 751.032 748.373 751.057 748.400 751.221 748.427 751.436 748.453 751.615 748.480 751.418 748.506 751.317 748.533 751.135 748.560 750.919 748.586 750.724 748.613 750.510 748.640 750.310 748.666 749.932 748.693 749.547 748.720 748.926 748.746 748.376 748.773 748.432 748.800 749.924 748.826 749.344 748.853 747.371 748.880 747.481 748.906 748.220 748.933 749.372 748.959 750.248 748.986 753.393 749.013 752.529 749.039 751.153 749.066 749.222 749.093 749.036 749.119 750.242 749.146 749.522 749.173 749.255 749.199 749.190 749.226 749.923 749.252 749.655 749.276 749.694 749.299 750.026 749.319 750.222 749.337 750.361 749.354 750.496 749.368 749.962 749.381 749.961 749.391 750.711 749.400 750.930 749.406 751.001 749.411 750.366 749.413 749.904 749.414 750.092 749.412 749.836 749.409 749.824 749.404 750.078 749.396 750.092 749.387 749.769 749.376 749.249 749.363 748.459 749.347 748.994 749.331 750.130 749.314 750.762 749.297 751.778 749.280 752.437 749.264 752.856 749.247 752.720 749.230 752.289 749.213 751.561 749.197 750.635 749.180 749.918 749.163 749.996 749.146 749.674 749.113 749.453 749.096 749.548 749.079 749.760 749.062 749.882 749.046 750.010 749.029 750.569 749.012 750.520 748.995 749.871 748.979 749.642 748.962 749.943 748.945 750.189 748.928 744.189 749.536 748.911
Ground Levels @6m Left	746.496 746.149 749.020 746.628 745.266 748.649 746.881 744.729 748.244 747.112 744.992 747.904 747.320 744.817 747.998 747.506 744.774 747.933 747.668 744.966 747.939 747.807 745.150 748.131 747.923 745.189 748.299 748.015 745.230 748.378 748.085 745.368 748.485 748.132 745.298 748.639 748.160 745.170 748.683 748.187 745.512 748.518 748.213 745.805 748.861 748.240 746.411 749.505 748.267 746.871 750.111 748.293 747.109 750.622 748.320 747.199 750.875 748.347 747.218 751.032 748.373 747.210 751.057 748.400 747.416 751.221 748.427 747.563 751.436 748.453 747.457 751.615 748.480 747.370 751.418 748.506 747.258 751.317 748.533 747.049 751.135 748.560 746.978 750.919 748.586 746.848 750.724 748.613 746.688 750.510 748.640 746.438 750.310 748.666 745.870 749.932 748.693 744.977 749.547 748.720 744.799 748.926 748.746 746.166 748.432 748.800 746.001 749.924 748.826 744.844 749.344 748.853 744.765 747.371 748.880 745.929 747.481 748.906 746.616 748.220 748.933 747.266 749.372 748.959 747.929 750.248 748.986 746.980 753.393 749.013 746.664 752.529 749.039 745.513 751.153 749.066 746.007 749.222 749.093 747.182 749.036 749.119 746.030 750.242 749.146 746.929 749.522 749.173 747.142 749.255 749.199 747.288 750.190 749.226 746.959 749.923 749.252 746.696 749.655 749.276 746.952 749.694 749.299 746.992 750.026 749.319 746.298 750.222 749.337 746.438 750.361 749.354 746.427 750.496 749.368 746.629 749.962 749.381 747.027 749.961 749.391 747.097 750.711 749.400 746.688 750.930 749.406 745.824 751.001 749.411 746.113 750.366 749.413 746.211 749.904 749.414 746.001 750.092 749.412 746.101 749.836 749.409 746.166 749.824 749.404 746.476 750.078 749.396 746.154 750.092 749.387 745.611 749.769 749.376 744.803 749.249 749.363 745.668 748.459 749.347 747.023 748.994 749.331 747.667 750.130 749.314 748.562 750.762 749.297 748.712 751.778 749.280 749.154 752.437 749.264 748.960 752.856 749.247 748.435 752.720 749.230 747.585 752.289 749.213 746.564 751.561 749.197 746.301 750.635 749.180 746.360 749.918 749.163 746.141 749.996 749.146 745.920 749.862 749.129 746.208 749.674 749.113 746.519 749.453 749.096 746.767 749.548 749.079 746.780 749.760 749.062 747.146 749.882 749.046 747.841 750.010 749.029 747.208 750.569 749.012 746.572 750.520 748.995 746.470 749.871 748.979 746.852 749.642 748.962 747.125 749.943 748.945 745.158 750.189 748.928 744.189 749.536 748.911
Ground Levels @6m Right	752.872 746.496 749.427 746.371 752.392 746.149 749.020 746.628 751.967 745.266 748.649 746.881 751.592 744.729 748.244 747.112 751.327 744.992 747.904 747.320 751.131 744.817 747.998 747.506 751.061 744.774 747.933 747.668 751.049 744.966 747.939 747.807 751.105 745.150 748.131 747.923 751.283 745.189 748.299 748.015 751.455 745.230 748.378 748.085 751.566 745.368 748.485 748.132 751.741 745.298 748.639 748.160 751.911 745.170 748.683 748.187 751.952 745.512 748.518 748.213 751.917 745.805 748.861 748.240 752.514 746.411 749.505 748.267 753.204 746.871 750.111 748.293 753.812 747.109 750.622 748.320 754.366 747.199 750.875 748.347 754.641 747.218 751.032 748.373 754.799 747.210 751.057 748.400 754.690 747.416 751.221 748.427 755.247 747.563 751.436 748.453 755.457 747.457 751.615 748.480 755.582 747.370 751.418 748.506 755.325 747.258 751.317 748.533 755.175 747.049 751.135 748.560 754.845 746.978 750.919 748.586 754.610 746.848 750.724 748.613 754.404 746.688 750.510 748.640 754.195 746.438 750.310 748.666 753.917 745.870 749.932 748.693 753.461 744.977 749.547 748.720 753.043 744.799 748.926 748.746 752.373 744.955 748.376 748.773 751.935 746.166 748.432 748.800 752.076 746.001 749.924 748.826 752.594 744.844 749.344 748.853 752.143 744.765 747.371 748.880 749.898 745.929 747.481 748.906 750.058 746.616 748.220 748.933 750.463 747.266 749.372 748.959 751.549 747.929 750.248 748.986 751.531 746.980 753.393 749.013 754.514 746.664 752.529 749.039 753.690 745.513 751.153 749.066 751.842 746.007 749.222 749.093 752.094 747.182 749.036 749.119 752.006 746.030 750.242 749.146 752.537 746.929 749.522 749.173 752.003 747.142 749.255 749.199 751.706 747.288 750.190 749.226 752.722 746.959 749.923 749.252 752.468 746.696 749.655 749.276 752.297 746.952 749.694 749.299 752.345 746.992 750.026 749.319 752.537 746.298 750.222 749.337 752.666 746.438 750.361 749.354 752.655 746.427 750.496 749.368 752.813 746.629 749.962 749.381 752.764 747.027 749.961 749.391 752.976 747.097 750.711 749.400 753.178 746.688 750.930 749.406 753.414 745.824 751.001 749.411 753.616 746.113 750.366 749.413 753.790 746.211 749.904 749.414 753.963 746.001 750.092 749.412 753.918 746.101 749.836 749.409 753.671 746.166 749.824 749.404 753.547 746.476 750.078 749.396 753.607 746.154 750.092 749.387 753.445 745.611 749.769 749.376 753.128 744.803 749.249 749.363 752.572 745.668 748.459 749.347 751.755 747.023 748.994 749.331 751.986 747.667 750.130 749.314 753.091 748.562 750.762 749.297 753.919 748.712 751.778 749.280 754.837 749.154 752.437 749.264 755.449 748.960 752.856 749.247 755.568 748.435 752.720 749.230 755.969 747.585 752.289 749.213 755.566 746.564 751.561 749.197 754.905 746.301 750.635 749.180 754.327 746.360 749.918 749.163 753.644 746.141 749.996 749.146 753.628 745.920 749.862 749.129 753.547 746.208 749.674 749.113 753.364 746.519 749.453 749.096 753.177 746.767 749.548 749.079 753.012 746.780 749.760 749.062 752.869 747.146 749.882 749.046 752.857 747.841 750.010 749.029 752.944 747.208 750.569 749.012 753.325 746.572 750.520 748.995 753.816 746.470 749.871 748.979 753.235 746.852 749.642 748.962 752.944 747.125 749.943 748.945 753.004 745.158 750.189 748.928 753.251 744.189 749.536 748.911
Vertical Alignment	R =4333.707 L =100.000 G =0.266% L =409.312 R =50668.563 L =220.000 G =-0.168% L =460.767
Horizontal Alignment	L =88.141 R: 800.000 L: 117.560 L =94.111 L: 15.000 R: 300.000 L: 49.527 L: 15.000 L: 30.000 R: 150.000 L: 43.667 L: 30.000 L: 10.708 R: 300.000 L: 36.988 L: 15.000 L =120.668 L: 20.000 R: 200.000 L: 120.873 L: 20.000 L =49.336 L: 20.000 R: 200.000 L: 32.734 L: 20.000 L =26.57
Chainage	6000.000 6010.000 6020.000 6030.000 6040.000 6050.000 6060.000 6070.000 6080.000 6090.000 6100.000 6110.000 6120.000 6130.000 6140.000 6150.000 6160.000 6170.000 6180.000 6190.000 6200.000 6210.000 6220.000 6230.000 6240.000 6250.000 6260.000 6270.000 6280.000 6290.000 6300.000 6310.000 6320.000 6330.000 6340.000 6350.000 6360.000 6370.000 6380.000 6390.000 6400.000 6410.000 6420.000 6430.000 6440.000 6450.000 6460.000 6470.000 6480.000 6490.000 6500.000 6510.000 6520.000 6530.000 6540.000 6550.000 6560.000 6570.000 6580.000 6590.000 6600.000 6610.000 6620.000 6630.000 6640.000 6650.000 6660.000 6670.000 6680.000 6690.000 6700.000 6710.000 6720.000 6730.000 6740.000 6750.000 6760.000 6770.000 6780.000 6790.000 6800.000 6810.000 6820.000 6830.000 6840.000 6850.000 6860.000 6870.000 6880.000 6890.000 6900.000 6910.000 6920.000 6930.000 6940.00

LEGEND

PLAN:-

PROP.CENTER LINE

PROP.CARRIAGEWAY EDGE

PROP.EARTHEN SHOULDER

TOE LINE

PROP.RIGHT OF WAY

CULVERT

MAJOR/MINOR BRIDGE

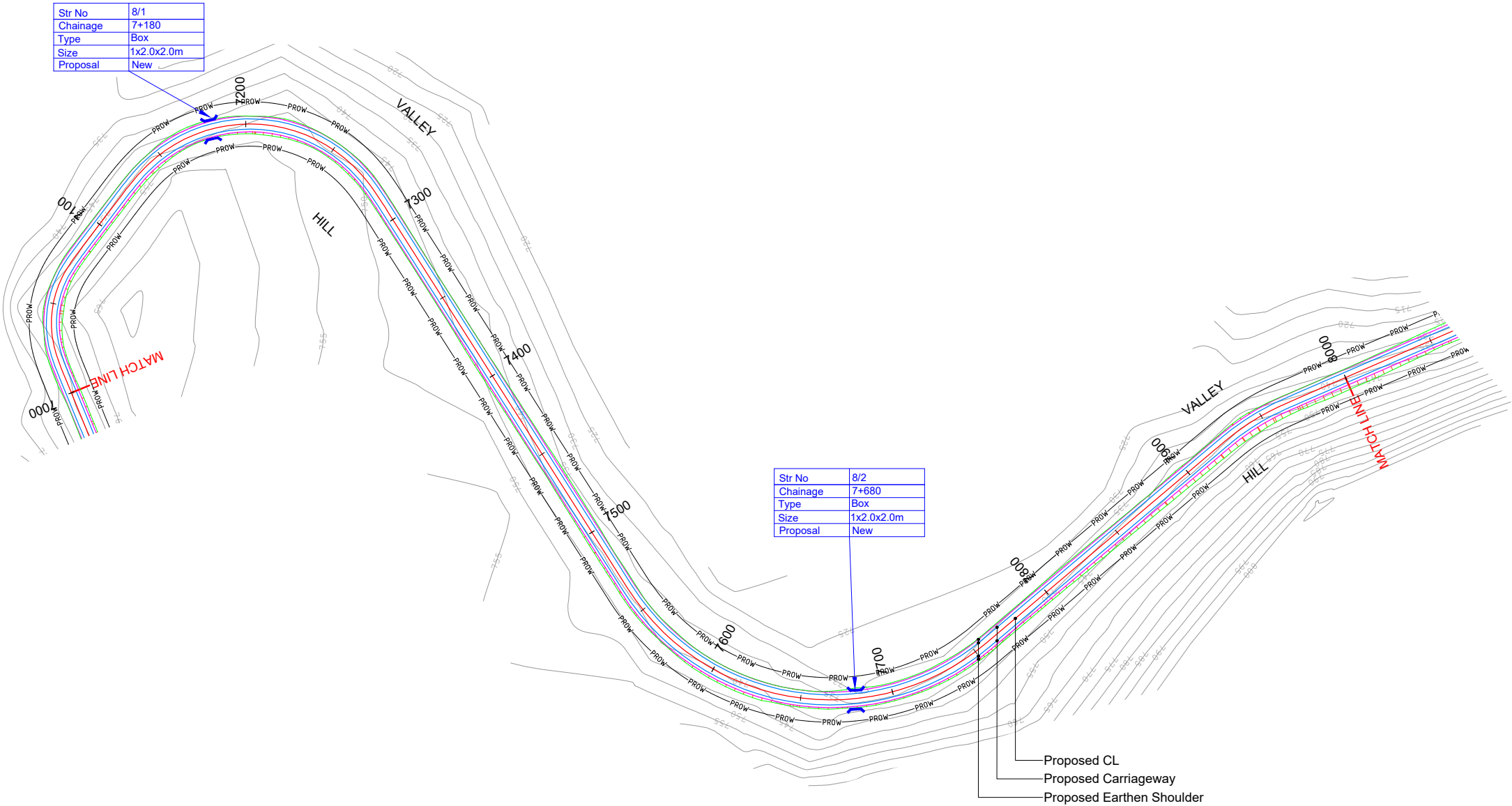
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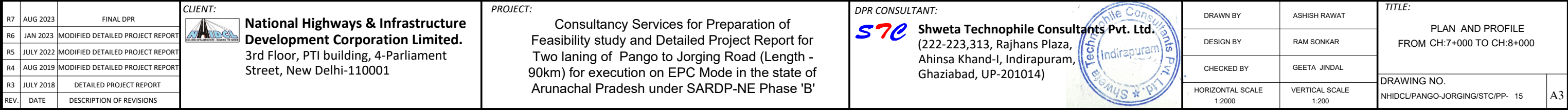
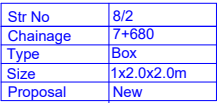
PROP.ROAD LEVEL

EXISTING GROUND LEVEL

GROUND LEVEL @6M LEFT

GROUND LEVEL @6M RIGHT

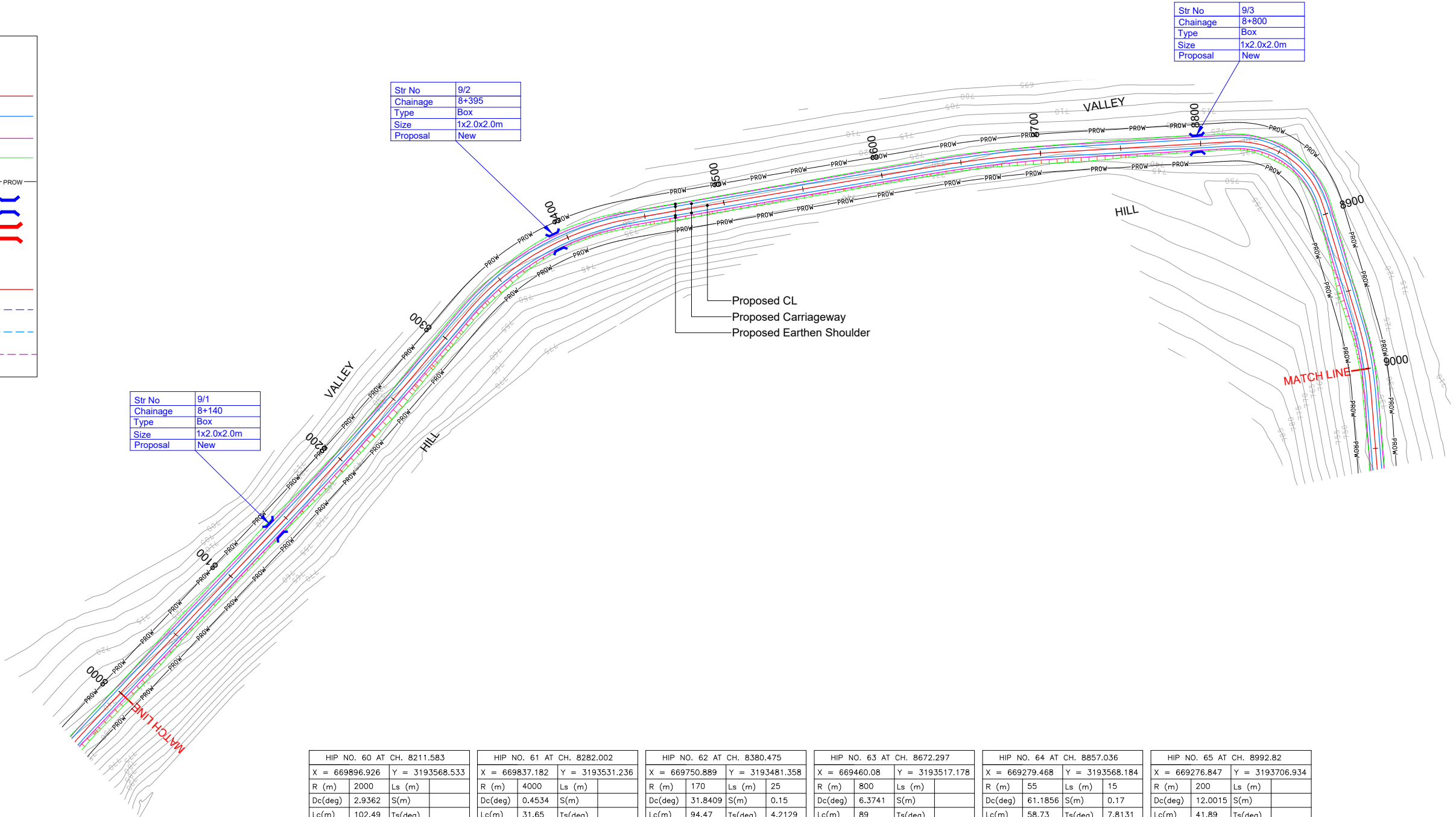




LEGEND

PLAN:-
PROP.CENTER LINE
PROP.CARRIAGEWAY EDGE
PROP.EARTHEN SHOULDER
TOE LINE
PROP.RIGHT OF WAY
CULVERT
MAJOR/MINOR BRIDGE

PROFILE:-
PROP.ROAD LEVEL
EXISTING GROUND LEVEL
GROUND LEVEL @6M LEFT
GROUND LEVEL @6M RIGHT



HIP NO. 60 AT CH. 8211.583				HIP NO. 61 AT CH. 8282.002				HIP NO. 62 AT CH. 8380.475				HIP NO. 63 AT CH. 8672.297				HIP NO. 64 AT CH. 8857.036				HIP NO. 65 AT CH. 8992.82			
X = 669896.926		Y = 3193568.533		X = 669837.182		Y = 3193531.236		X = 669750.889		Y = 3193481.358		X = 669460.08		Y = 3193517.178		X = 669279.468		Y = 3193568.184		X = 669276.847		Y = 3193706.934	
R (m)	2000	Ls (m)		R (m)	4000	Ls (m)		R (m)	170	Ls (m)	25	R (m)	800	Ls (m)		R (m)	55	Ls (m)	15	R (m)	200	Ls (m)	
Dc(deg)	2.9362	S(m)		Dc(deg)	0.4534	S(m)		Dc(deg)	31.8409	S(m)	0.15	Dc(deg)	6.3741	S(m)		Dc(deg)	61.1856	S(m)	0.17	Dc(deg)	12.0015	S(m)	
Lc(m)	102.49	Ts(deg)		Lc(m)	31.65	Ts(deg)		Lc(m)	94.47	Ts(deg)	4.2129	Lc(m)	89	Ts(deg)		Lc(m)	58.73	Ts(deg)	7.8131	Lc(m)	41.89	Ts(deg)	
Ts(m)	51.257	Δ(deg)	2.9362	Ts(m)	15.825	Δ(deg)	0.4534	Ts(m)	74.876	Δ(deg)	40.2668	Ts(m)	44.545	Δ(deg)	6.3741	Ts(m)	51.232	Δ(deg)	76.8118	Ts(m)	21.023	Δ(deg)	12.0015
Es(m)	0.657	e(%)	-2.50%	Es(m)	0.031	e(%)	-2.50%	Es(m)	11.224	e(%)	6.54%	Es(m)	1.239	e(%)	-2.50%	Es(m)	15.403	e(%)	10.00%	Es(m)	1.102	e(%)	5.56%
V(km/hr)	50	We(m)	Nil	V(km/hr)	50	We(m)	Nil	V(km/hr)	50	We(m)	0.6	V(km/hr)	50	We(m)	Nil	V(km/hr)	40	We(m)	1.2	V(km/hr)	50	We(m)	0.6
CurveType	LEFT			CurveType	RIGHT			CurveType	RIGHT			CurveType	RIGHT			CurveType	RIGHT			CurveType	RIGHT		

R7	AUG 2023	FINAL DPR
R6	JAN 2023	MODIFIED DETAILED PROJECT REPORT
R5	JULY 2022	MODIFIED DETAILED PROJECT REPORT
R4	AUG 2019	MODIFIED DETAILED PROJECT REPORT
R3	JULY 2018	DETAILED PROJECT REPORT
REV.	DATE	DESCRIPTION OF REVISIONS

CLIENT:



National Highways & Infrastructure Development Corporation Limited.
3rd Floor, PTI building, 4-Parliament Street, New Delhi-110001

PROJECT:

Consultancy Services for Preparation of Feasibility study and Detailed Project Report for Two laning of Pango to Jorging Road (Length - 90km) for execution on EPC Mode in the state of Arunachal Pradesh under SARDP-NE Phase 'B'

DPR CONSULTANT:



Shweta Technophile Consultants Pvt. Ltd.
(222-223,313, Rajhans Plaza, Ahinsa Khand-I, Indirapuram, Ghaziabad, UP-201014)

DRAWN BY	ASHISH RAWAT
DESIGN BY	RAM SONKAR
CHECKED BY	GEETA JINDAL
HORIZONTAL SCALE 1:2000	VERTICAL SCALE 1:200

TITLE:

PLAN AND PROFILE
FROM CH:8+000 TO CH:9+000

DRAWING NO.
NHIDCL/PANGO-JORGING/STC/PP- 16

A3

LEGEND

PLAN:-

PROP.CENTER LINE

PROP.CARRIAGEWAY EDGE

PROP.EARTHEN SHOULDER

TOE LINE

PROP.RIGHT OF WAY

CULVERT

MAJOR/MINOR BRIDGE

PROFILE:-

PROP.ROAD LEVEL

EXISTING GROUND LEVEL

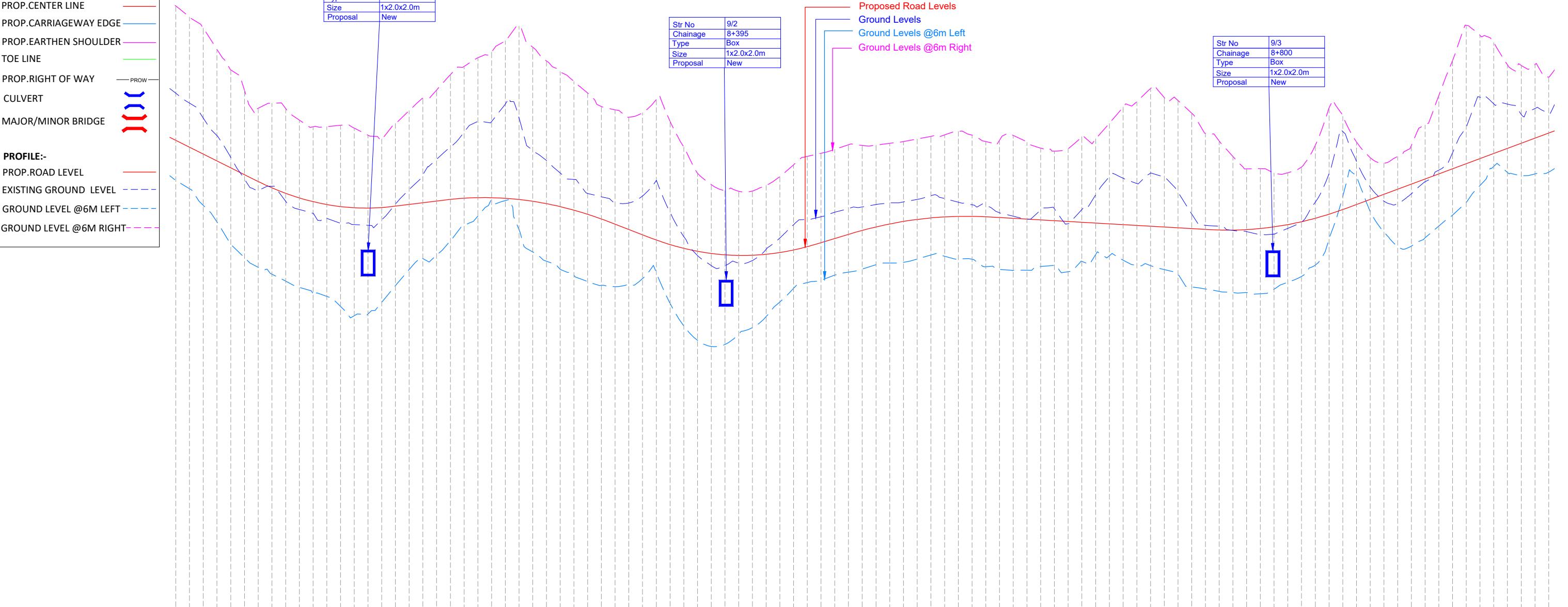
GROUND LEVEL @6M LEFT

GROUND LEVEL @6M RIGHT

Str No	9/1
Chainage	8+140
Type	Box
Size	1x2.0x2.0m
Proposal	New

Str No	9/2
Chainage	8+395
Type	Box
Size	1x2.0x2.0m
Proposal	New

Str No	9/3
Chainage	8+800
Type	Box
Size	1x2.0x2.0m
Proposal	New



DATUM = 700	
Proposed Road Levels	735.742 735.243 734.744 734.245 733.746 733.247 732.748 732.288 731.891 731.556 731.283 731.073 730.925 730.840 730.816 730.856 730.956 731.081 731.205 731.330 731.449 731.532 731.570 731.525 731.438 731.308 731.136 730.921 730.664 730.364 730.021 729.641 729.255 728.869 728.490 728.161 727.888 727.673 727.515 727.414 727.370 727.383 727.453 727.581 727.766 728.008 728.300 728.600 728.900 729.188 729.441 729.658 729.840 729.986 730.096 730.170 730.209 730.212 730.179 730.122 730.065 730.007 729.950 729.892 729.835 729.778 729.720 729.663 729.605 729.548 729.491 729.433 729.376 729.318 729.261 729.214 729.208 729.246 729.326 729.414 729.514 729.614 729.704 729.794 729.884 729.974 730.064 730.154 730.244 730.334 730.424 730.514 730.604 730.694 730.784 730.874 730.964 731.054 731.144 731.234 731.324 731.414 731.504 731.594 731.684 731.774 731.864 731.954 732.044 732.134 732.224 732.314 732.404 732.494 732.584 732.674 732.764 732.854 732.944 733.034 733.124 733.214 733.304 733.394 733.484 733.574 733.664 733.754 733.844 733.934 734.024 734.114 734.204 734.294 734.384 734.474 734.564 734.654 734.744 734.834 734.924 735.014 735.104 735.194 735.284 735.374 735.464 735.554 735.644 735.734 735.824 735.914 736.004 736.094 736.184 736.274 736.364 736.454 736.544 736.634 736.724 736.814 736.904 736.994 737.084 737.174 737.264 737.354 737.444 737.534 737.624 737.714 737.804 737.894 737.984 738.074 738.164 738.254 738.344 738.434 738.524 738.614 738.704 738.794 738.884 738.974 739.064 739.154 739.244 739.334 739.424 739.514 739.604 739.694 739.784 739.874 739.964 740.054 740.144 740.234 740.324 740.414 740.504 740.594 740.684 740.774 740.864 740.954 741.044 741.134 741.224 741.314 741.404 741.494 741.584 741.674 741.764 741.854 741.944 742.034 742.124 742.214 742.304 742.394 742.484 742.574 742.664 742.754 742.844 742.934 743.024 743.114 743.204 743.294 743.384 743.474 743.564 743.654 743.744 743.834 743.924 744.014 744.104 744.194 744.284 744.374 744.464 744.554 744.644 744.734 744.824 744.914 745.000
Ground Levels	732.832 732.223 731.011 730.805 729.805 728.181 727.205 726.505 725.997 732.411 725.038 730.712 730.428 730.068 729.706 729.981 729.563 729.960 731.104 732.164 733.242 734.375 735.556 736.847 738.231 739.716 741.304 743.011 744.855 746.837 748.956 751.213 753.616 756.173 758.890 761.767 764.804 767.999 771.352 774.862 778.535 782.370 786.266 790.222 794.239 798.316 802.453 806.650 810.907 815.224 819.600 824.036 828.532 833.088 837.704 842.380 847.116 851.912 856.768 861.684 866.660 871.696 876.792 881.948 887.164 892.440 897.776 903.172 908.628 914.144 919.720 925.356 931.052 936.808 942.624 948.500 954.436 960.432 966.488 972.604 978.780 985.016 991.312 997.668 1004.084 1010.560 1017.096 1023.692 1030.348 1037.064 1043.840 1050.676 1057.572 1064.528 1071.544 1078.620 1085.756 1092.952 1100.208 1107.524 1114.899 1122.335 1129.831 1137.387 1144.903 1152.479 1160.115 1167.811 1175.567 1183.383 1191.259 1199.195 1207.191 1215.247 1223.363 1231.539 1239.775 1248.071 1256.427 1264.843 1273.319 1281.855 1290.451 1299.107 1307.823 1316.599 1325.435 1334.331 1343.287 1352.303 1361.379 1370.515 1379.711 1388.967 1398.283 1407.659 1417.095 1426.591 1436.147 1445.763 1455.439 1465.175 1474.971 1484.827 1494.743 1504.719 1514.755 1524.851 1534.997 1545.193 1555.439 1565.735 1576.081 1586.477 1596.923 1607.419 1617.965 1628.561 1639.207 1649.903 1660.649 1671.445 1682.291 1693.187 1704.133 1715.129 1726.175 1737.271 1748.417 1759.613 1770.859 1782.155 1793.501 1804.897 1816.343 1827.839 1839.385 1850.981 1862.627 1874.323 1886.069 1897.865 1909.711 1921.607 1933.553 1945.549 1957.595 1969.691 1981.837 1994.033 2006.279 2018.575 2030.921 2043.317 2055.763 2068.259 2080.805 2093.401 2106.047 2118.743 2131.489 2144.285 2157.131 2169.927 2182.773 2195.669 2208.615 2221.611 2234.657 2247.753 2260.900 2274.096 2287.342 2300.638 2313.984 2327.380 2340.826 2354.322 2367.868 2381.464 2395.110 2408.806 2422.552 2436.348 2450.194 2464.090 2478.036 2492.032 2506.078 2520.174 2534.320 2548.516 2562.762 2577.058 2591.404 2605.799 2620.245 2634.691 2649.187 2663.733 2678.329 2692.975 2707.671 2722.417 2737.213 2752.059 2766.955 2781.901 2796.897 2811.943 2827.039 2842.185 2857.381 2872.627 2887.923 2903.269 2918.665 2934.111 2949.607 2965.153 2980.749 2996.395 3012.091 3027.837 3043.633 3059.479 3075.375 3091.321 3107.317 3123.363 3139.459 3155.605 3171.801 3188.047 3204.343 3220.689 3237.085 3253.531 3269.927 3286.373 3302.869 3319.415 3335.911 3352.457 3369.003 3385.549 3402.095 3418.641 3435.187 3451.733 3468.279 3484.825 3501.371 3517.917 3534.463 3551.009 3567.555 3584.101 3600.647 3617.193 3633.739 3650.285 3666.831 3683.377 3699.923 3716.469 3733.015 3749.561 3766.107 3782.653 3799.199 3815.745 3832.291 3848.837 3865.383 3881.929 3898.475 3915.021 3931.567 3948.113 3964.659 3981.205 3997.751 4014.297 4030.843 4047.389 4063.935 4080.481 4097.027 4113.573 4130.119 4146.665 4163.211 4179.757 4196.303 4212.849 4229.395 4245.941 4262.487 4279.033 4295.579 4312.125 4328.671 4345.217 4361.763 4378.309 4394.855 4411.401 4427.947 4444.493 4461.039 4477.585 4494.131 4510.677 4527.223 4543.769 4560.315 4576.861 4593.407 4609.953 4626.499 4643.045 4659.591 4676.137 4692.683 4709.229 4725.775 4742.321 4758.867 4775.413 4791.959 4808.505 4825.051 4841.597 4858.143 4874.689 4891.235 4907.781 4924.327 4940.873 4957.419 4973.965 4990.511 5007.057 5023.603 5040.149 5056.649 5073.245 5089.791 5106.337 5122.883 5139.429 5155.975 5172.521 5189.067 5205.613 5222.159 5238.705 5255.251 5271.797 5288.343 5304.889 5321.435 5337.981 5354.527 5371.073 5387.619 5404.165 5420.711 5437.257 5453.803 5470.349 5486.895 5503.441 5519.987 5536.533 5553.079 5569.625 5586.171 5602.717 5619.263 5635.809 5652.355 5668.901 5685.447 5701.993 5718.539 5735.085 5751.631 5768.177 5784.723 5801.269 5817.815 5834.361 5850.907 5867.453 5883.999 5900.545 5917.091 5933.637 5950.183 5966.729 5983.275 5999.821 6016.367 6032.913 6049.459 6066.005 6082.551 6099.097 6115.643 6132.189 6148.735 6165.281 6181.827 6198.373 6214.919 6231.465 6248.011 6264.557 6281.103 6297.649 6314.195 6330.741 6347.287 6363.833 6380.379 6396.925 6413.471 6430.017 6446.563 6463.109 6479.655 6496.201 6512.747 6529.293 6545.839 6562.385 6578.931 6595.477 6612.023 6628.569 6645.115 6661.661 6678.207 6694.753 6711.299 6727.845 6744.391 6760.937 6777.483 6794.029 6810.575 6827.121 6843.667 6860.213 6876.759 6893.305 6909.851 6926.397 6942.943 6959.489 6976.035 6992.581 7009.127 7025.673 7042.219 7058.765 7075.311 7091.857 7108.403 7124.949 7141.495 7158.041 7174.587 7191.133 7207.679 7224.225 7240.771 7257.317 7273.863 7290.409 7306.955 7323.501 7340.047 7356.593 7373.139 7389.685 7406.231 7422.777 7439.323 7455.869 7472.415 7488.961 7505.507 7522.053 7538.599 7555.145 7571.691 7588.237 7604.783 7621.329 7637.875 7654.421 7670.967 7687.513 7704.059 7720.605 7737.151 7753.697 7770.243 7786.789 7803.335 7819.881 7836.427 7852.973 7869.519 7886.065 7902.611 7919.157 7935.703 7952.249 7968.795 7985.341 8001.887 8018.433 8034.979 8051.525 8068.071 8084.617 8101.163 8117.709 8134.255 8150.801 8167.347 8183.893 8200.439 8216.985 8233.531 8250.077 8266.623 8283.169 8299.715 8316.261 8332.807 8349.353 8365.899 8382.445 8398.991 8415.537 8432.083 8448.629 8465.175 8481.721 8498.267 8514.813 8531.359 8547.905 8564.451 8580.997 8597.543 8614.089 8630.635 8647.181 8663.727 8680.273 8696.819 8713.365 8729.911 8746.457 8763.003 8779.549 8796.095 8812.641 8829.187 8845.733 8862.279 8878.825 8895.371 8911.917 8928.463 8945.009 8961.555 8978.101 8994.647 9011.193 9027.739 9044.285 9060.831 9077.377 9093.923 9110.469 9127.015 9143.561 9160.107 9176.653 9193.199 9209.745 9226.291 9242.837 9259.383 9275.929 9292.475 9309.021 9325.567 9342.113 9358.659 9375.205 9391.751 9408.297 9424.843 9441.389 9457.935 9474.481 9491.027 9507.573 9524.119 9540.665 9557.211 9573.757 9590.303 9606.849 9623.395 9639.941 9656.487 9673.033 9689.579 9706.125 9722.671 9739.217 9755.763 9772.309 9788.855 9805.401 9821.947 9838.493 9855.039 9871.585 9888.131 9904.677 9921.223 9937.769 9954.315 9970.861 9987.407 10004.000
Ground Levels @6m Left	745.534 744.721 743.909 742.369 740.875 739.391 738.080 738.450 738.071 737.218 736.737 736.749 736.843 736.641 736.121 735.839 736.977 737.912 738.804 739.413 740.525 741.128 741.750 742.177 742.991 744.064 744.522 744.525 740.751 740.032 739.187 738.209 737.966 737.430 737.759 738.715 737.139 735.269 733.351 732.530 732.087 732.034 732.059 732.461 733.112 733.970 734.575 734.803 735.085 735.424 735.378 735.403 735.535 735.660 735.845 736.029 736.142 736.394 736.128 736.655 736.549 736.749 736.099 735.587 735.179 734.961 735.137 736.009 735.855 736.980 738.167 738.561 739.518 738.866 737.721 736.257 735.699 734.575 733.664 733.686 733.363 733.391 733.804 735.389 738.090 737.497 735.638 734.488 734.083 734.569 735.359 736.871 739.007 741.551 744.124 743.389 742.864 741.241 741.200 741.262 740.347
Ground Levels @6m Right	732.832 732.223 731.011 729.805 728.181 727.205 726.505 725.997 732.411 725.038 730.712 730.428 730.068 729.706 729.981 729.563 729.960 731.104 732.164 733.242 734.375 735.556 736.847 738.231 739.716 741.304 743.011 744.855 746.837 748.956 751.213 753.616 756.173 758.890 761.767 764.804 767.999 771.352 774.862 778.535 782.370 786.266 790.222 794.239 798.316 802.453 806.650 810.907 815.224 819.600 824.036 828.532 833.088 837.704 842.380 847.116 851.912 856.768 861.684 866.660 871.696 876.792 881.948 887.164 892.440 897.776 903 908.628 914.144 919.720 925.356 931.052 936.808 942.624 948.500 954.436 960.432 966.488 972.604 978.780 985.016 991.312 997.668 1004.084 1010.560 1017.096 1023.692 1030.348 1037.064 1043.840 1050.676 1057.572 1064.528 1071.544 1078.620 1085.756 1092.952 1100.208 1107.524 1114.899 1122.335 1129.831 1137.387 1144.903 1152.479 1160.115 1167.811 1175.567 1183.383 1191.259 1199.195 1207.191 1215.247 1223.363 1231.539 1239.775 1248.071 1256.427 1264.843 1273.319 1281.855 1290.451 1299.107 1307.823 1316.599 1325.435 1334.331 1343.287 1352.303 1361.379 1

LEGEND

PLAN:-

PROP.CENTER LINE

PROP.CARRIAGEWAY EDGE

PROP.EARTHEN SHOULDER

TOE LINE

PROP.RIGHT OF WAY

CULVERT

MAJOR/MINOR BRIDGE

PROFILE:-

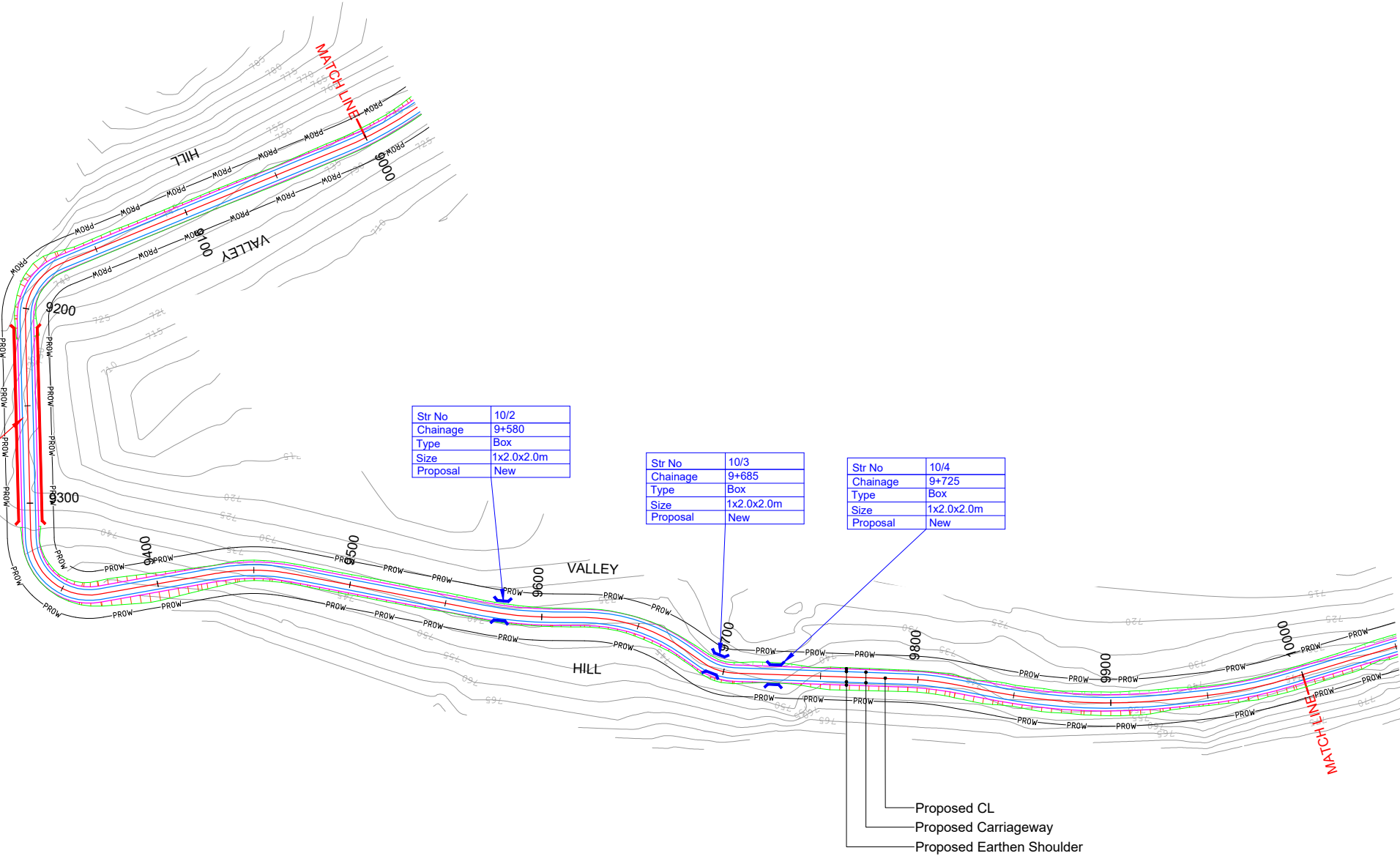
PROP.ROAD LEVEL

EXISTING GROUND LEVEL

GROUND LEVEL @6M LEFT

GROUND LEVEL @6M RIGHT

Str No	10/1
Chainage	9+266
Type	Major Bridge
Size	1x100m
Proposal	New



HIP NO. 66 AT CH. 9187.224					
X = 669321.26	Y = 3193898.916				
R (m)	30	Ls (m)			
Dc(deg)	69.1388	S(m)			
Lc(m)	36.2	Ts(deg)			
Ts(m)	20.672	Δ(deg)	69.1388		
Es(m)	6.433	e(%)	10.00%		
V(km/hr)	30	We(m)	1.5		
CurveType	LEFT				

HIP NO. 67 AT CH. 9343.786					
X = 669181.609	Y = 3193992.714				
R (m)	30	Ls (m)			
Dc(deg)	98.6843	S(m)			
Lc(m)	51.67	Ts(deg)			
Ts(m)	34.93	Δ(deg)	98.6843		
Es(m)	16.045	e(%)	10.00%		
V(km/hr)	30	We(m)	1.5		
CurveType	LEFT				

HIP NO. 68 AT CH. 9450.368					
X = 669131.01	Y = 3193888.727				
R (m)	100	Ls (m)	20		
Dc(deg)	9.5483	S(m)	0.17		
Lc(m)	16.67	Ts(deg)	5.7296		
Ts(m)	28.569	Δ(deg)	21.0075		
Es(m)	1.877	e(%)	10.00%		
V(km/hr)	50	We(m)	0.9		
CurveType	RIGHT				

HIP NO. 69 AT CH. 9587.34					
X = 669033.162	Y = 3193792.854				
R (m)	200	Ls (m)			
Dc(deg)	10.498	S(m)			
Lc(m)	36.65	Ts(deg)			
Ts(m)	18.374	Δ(deg)	10.498		
Es(m)	0.842	e(%)	5.56%		
V(km/hr)	50	We(m)	0.6		
CurveType	LEFT				

HIP NO. 70 AT CH. 9649.386					
X = 668996.404	Y = 3193741.726				
R (m)	90	Ls (m)			
Dc(deg)	34.7951	S(m)			
Lc(m)	54.66	Ts(deg)			
Ts(m)	28.2	Δ(deg)	34.7951		
Es(m)	4.315	e(%)	7.90%		
V(km/hr)	40	We(m)	0.9		
CurveType	RIGHT				

HIP NO. 71 AT CH. 9696.943					
X = 668950.513	Y = 3193725.483				
R (m)	30	Ls (m)			
Dc(deg)	33.1991	S(m)			
Lc(m)	17.38	Ts(deg)			
Ts(m)	8.943	Δ(deg)	33.1991		
Es(m)	1.305	e(%)	10.00%		
V(km/hr)	30	We(m)	1.5		
CurveType	LEFT				

HIP NO. 72 AT CH. 9806.244					
X = 668884.098	Y = 3193638.332				
R (m)	150	Ls (m)			
Dc(deg)	8.5982	S(m)			
Lc(m)	22.51	Ts(deg)			
Ts(m)	11.276	Δ(deg)	8.5982		
Es(m)	0.423	e(%)	7.41%		
V(km/hr)	50	We(m)	0.6		
CurveType	RIGHT				

HIP NO. 73 AT CH. 9886.455					
X = 668826.249	Y = 3193582.288				
R (m)	300	Ls (m)			
Dc(deg)	16.7021	S(m)			
Lc(m)	87.45	Ts(deg)			
Ts(m)	44.038	Δ(deg)	16.7021		
Es(m)	3.215	e(%)	3.70%		
V(km/hr)	50	We(m)	0.6		
CurveType	LEFT				

HIP NO. 74 AT CH. 9970.411					
X = 668785.097	Y = 3193508.674				
R (m)	250	Ls (m)			
Dc(deg)	10.6889	S(m)			
Lc(m)	46.64	Ts(deg)			
Ts(m)	23.387	Δ(deg)	10.6889		
Es(m)	1.092	e(%)	4.44%		
V(km/hr)	50	We(m)	0.6		
CurveType	LEFT				

R7	AUG 2023	FINAL DPR
R6	JAN 2023	MODIFIED DETAILED PROJECT REPORT
R5	JULY 2022	MODIFIED DETAILED PROJECT REPORT
R4	AUG 2019	MODIFIED DETAILED PROJECT REPORT
R3	JULY 2018	DETAILED PROJECT REPORT
REV.	DATE	DESCRIPTION OF REVISIONS

CLIENT:



National Highways & Infrastructure Development Corporation Limited.
3rd Floor, PTI building, 4-Parliament Street, New Delhi-110001

PROJECT:

Consultancy Services for Preparation of Feasibility study and Detailed Project Report for Two laning of Pango to Jorging Road (Length - 90km) for execution on EPC Mode in the state of Arunachal Pradesh under SARDP-NE Phase 'B'

DPR CONSULTANT:



Shweta Technophile Consultants Pvt. Ltd.
(222-223,313, Rajhans Plaza, Ahinsa Khand-I, Indirapuram, Ghaziabad, UP-201014)

DRAWN BY	ASHISH RAWAT
DESIGN BY	RAM SONKAR
CHECKED BY	GEETA JINDAL
HORIZONTAL SCALE 1:2000	VERTICAL SCALE 1:200

TITLE:

PLAN AND PROFILE
FROM CH:9+000 TO CH:10+000

DRAWING NO.
NHIDCL/PANGO-JORGING/STC/PP- 18

A3

LEGEND

PLAN:-

PROP.CENTER LINE

PROP.CARRIAGEWAY EDGE

PROP.EARTHEN SHOULDER

TOE LINE

PROP.RIGHT OF WAY

CULVERT

MAJOR/MINOR BRIDGE

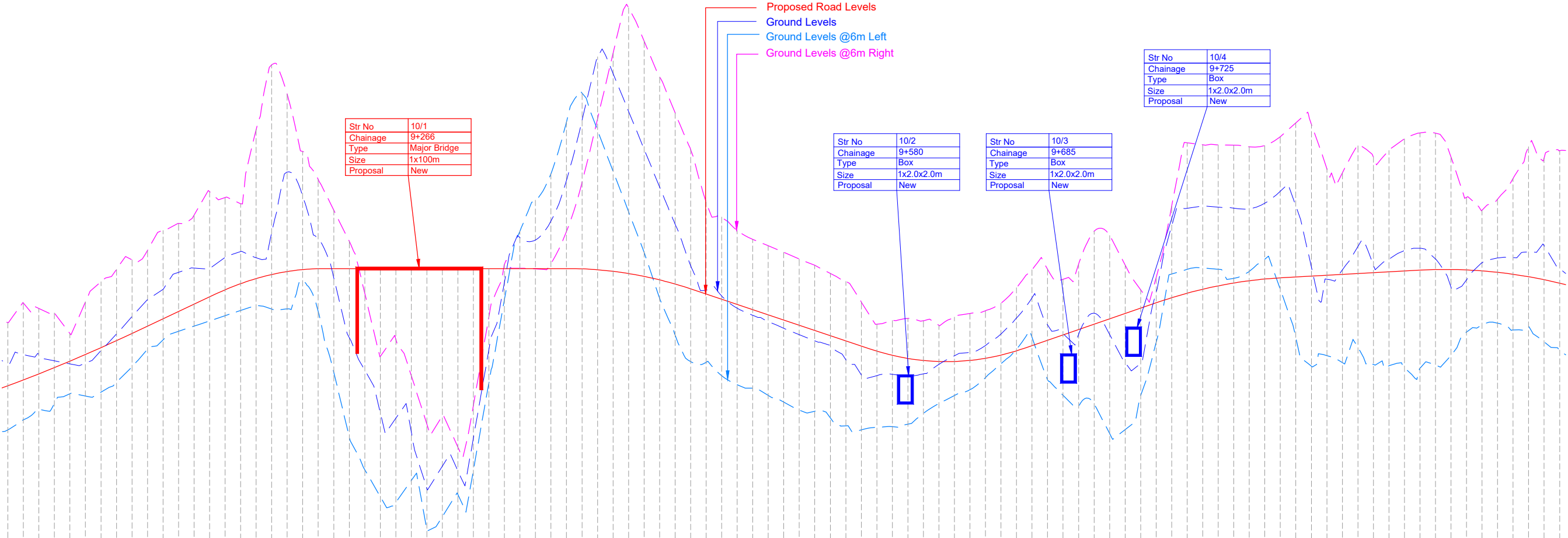
PROFILE:-

PROP.ROAD LEVEL

EXISTING GROUND LEVEL

GROUND LEVEL @6M LEFT

GROUND LEVEL @6M RIGHT



DATUM = 720									
Proposed Road Levels	736.274	737.715	738.280	738.652	739.042	739.445	739.860	739.287	738.727
Ground Levels	733.431	737.715	738.280	738.652	739.042	739.445	739.860	739.287	738.727
Ground Levels @6m Left	740.347	733.431	737.715	738.280	738.652	739.042	739.445	739.860	739.287
Ground Levels @6m Right	740.347	733.431	737.715	738.280	738.652	739.042	739.445	739.860	739.287
Vertical Alignment	R=8090.058 L=80.000								
Horizontal Alignment	R=1488.617 L=70.000								
Chainage	9000.000	9010.000	9020.000	9030.000	9040.000	9050.000	9060.000	9070.000	9080.000

LEGEND

PLAN:-

PROP.CENTER LINE

PROP.CARRIAGEWAY EDGE

PROP.EARTHEN SHOULDER

TOE LINE

PROP.RIGHT OF WAY

CULVERT

MAJOR/MINOR BRIDGE

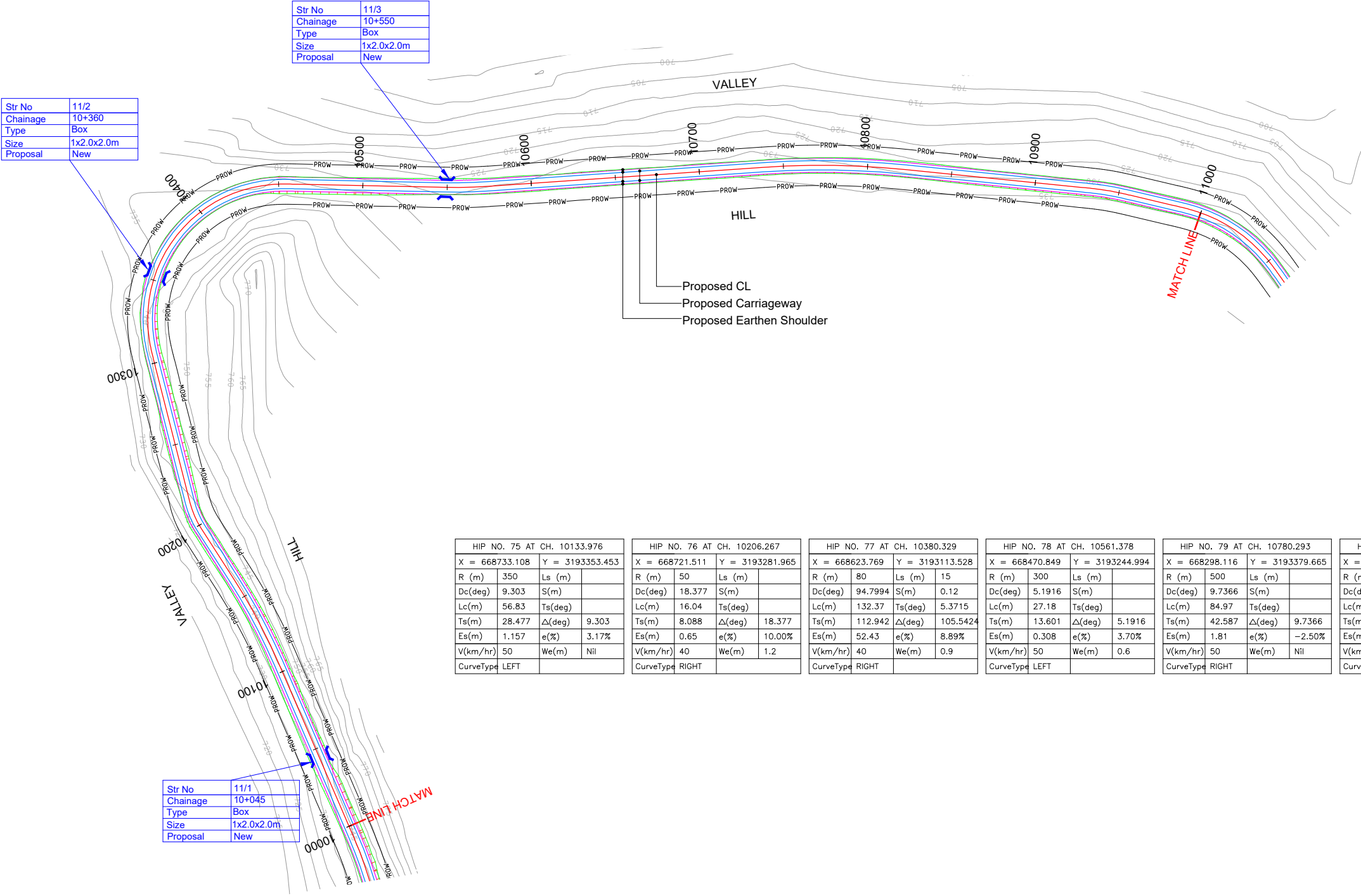
PROFILE:-

PROP.ROAD LEVEL

EXISTING GROUND LEVEL

GROUND LEVEL @6M LEFT

GROUND LEVEL @6M RIGHT



HIP NO. 75 AT CH. 10133.976				HIP NO. 76 AT CH. 10206.267				HIP NO. 77 AT CH. 10380.329				HIP NO. 78 AT CH. 10561.378				HIP NO. 79 AT CH. 10780.293				HIP NO. 80 AT CH. 10943.276			
X = 668733.108	Y = 3193353.453			X = 668721.511	Y = 3193281.965			X = 668623.769	Y = 3193113.528			X = 668470.849	Y = 3193244.994			X = 668298.116	Y = 3193379.665			X = 668188.566	Y = 3193500.468		
R (m)	350	Ls (m)		R (m)	50	Ls (m)		R (m)	80	Ls (m)	15	R (m)	300	Ls (m)		R (m)	500	Ls (m)		R (m)	125	Ls (m)	15
Dc(deg)	9.303	S(m)		Dc(deg)	18.377	S(m)		Dc(deg)	94.7994	S(m)	0.12	Dc(deg)	5.1916	S(m)		Dc(deg)	9.7366	S(m)		Dc(deg)	0.5587	S(m)	0.08
Lc(m)	56.83	Ts(deg)		Lc(m)	16.04	Ts(deg)		Lc(m)	132.37	Ts(deg)	5.3715	Lc(m)	27.18	Ts(deg)		Lc(m)	84.97	Ts(deg)		Lc(m)	1.22	Ts(deg)	3.4377
Ts(m)	28.477	Δ(deg)	9.303	Ts(m)	8.088	Δ(deg)	18.377	Ts(m)	112.942	Δ(deg)	105.5424	Ts(m)	13.601	Δ(deg)	5.1916	Ts(m)	42.587	Δ(deg)	9.7366	Ts(m)	15.625	Δ(deg)	7.4342
Es(m)	1.157	e(%)	3.17%	Es(m)	0.65	e(%)	10.00%	Es(m)	52.43	e(%)	8.89%	Es(m)	0.308	e(%)	3.70%	Es(m)	1.81	e(%)	-2.50%	Es(m)	0.344	e(%)	8.89%
V(km/hr)	50	We(m)	Nil	V(km/hr)	40	We(m)	1.2	V(km/hr)	40	We(m)	0.9	V(km/hr)	50	We(m)	0.6	V(km/hr)	50	We(m)	Nil	V(km/hr)	50	We(m)	0.6
CurveType	LEFT			CurveType	RIGHT			CurveType	RIGHT			CurveType	LEFT			CurveType	RIGHT			CurveType	RIGHT		

R7	AUG 2023	FINAL DPR
R6	JAN 2023	MODIFIED DETAILED PROJECT REPORT
R5	JULY 2022	MODIFIED DETAILED PROJECT REPORT
R4	AUG 2019	MODIFIED DETAILED PROJECT REPORT
R3	JULY 2018	DETAILED PROJECT REPORT
REV.	DATE	DESCRIPTION OF REVISIONS

CLIENT:

National Highways & Infrastructure Development Corporation Limited.

3rd Floor, PTI building, 4-Parliament Street, New Delhi-110001

PROJECT:

Consultancy Services for Preparation of Feasibility study and Detailed Project Report for Two laning of Pango to Jorging Road (Length - 90km) for execution on EPC Mode in the state of Arunachal Pradesh under SARDP-NE Phase 'B'

DPR CONSULTANT:

Shweta Technophile Consultants Pvt. Ltd.

(222-223,313, Rajhans Plaza, Ahinsa Khand-I, Indirapuram, Ghaziabad, UP-201014)

DRAWN BY	ASHISH RAWAT
DESIGN BY	RAM SONKAR
CHECKED BY	GEETA JINDAL
HORIZONTAL SCALE	VERTICAL SCALE
1:2000	1:200

TITLE:

PLAN AND PROFILE

FROM CH:10+000 TO CH:11+000

DRAWING NO.

NHIDCL/PANGO-JORGING/STC/PP- 20

A3

PLAN:-

PROP.CENTER LINE

PROP.CARRIAGEWAY EDGE

PROP.EARTHEN SHOULDER

TOE LINE

PROP.RIGHT OF WAY

CULVERT

MAJOR/MINOR BRIDGE

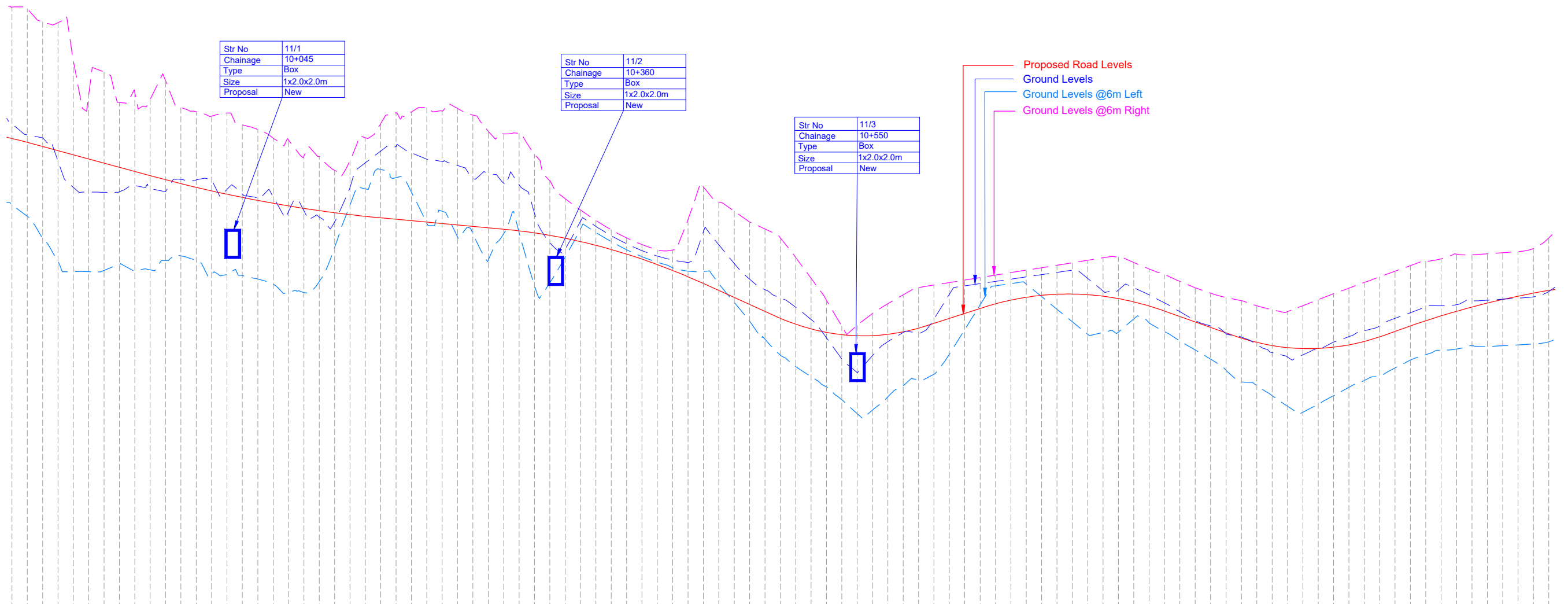
PROFILE:-

PROP.ROAD LEVEL

EXISTING GROUND LEVEL

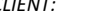
GROUND LEVEL @6M LEFT

GROUND LEVEL @6M RIGHT



DATUM = 700

Chainage	Horizontal Alignment	Vertical Alignment	Ground Levels @6m Right	Ground Levels @6m Left	Ground Levels	Proposed Road Levels
-10000.000			751.417	736.576	743.815	742.879
-10010.000			751.307	737.823	743.111	742.624
-10020.000			750.453	736.413	742.927	742.353
-10030.000			750.407	734.870	741.415	742.083
-10040.000			747.911	734.225	739.694	741.813
-10050.000			745.711	734.219	739.391	741.543
-10060.000			747.198	734.296	739.381	741.273
-10070.000			745.215	734.705	739.411	741.003
-10080.000			745.858	734.279	739.818	740.733
-10090.000			745.428	734.338	739.621	740.463
-10100.000			746.625	734.951	739.429	740.197
-10110.000			744.882	735.246	740.213	739.943
-10120.000			744.617	734.923	740.181	739.700
-10130.000			744.332	734.057	740.152	739.470
-10140.000			744.528	734.024	739.572	739.251
-10150.000			743.768	733.960	739.259	739.044
-10160.000			743.466	733.749	738.995	738.849
-10170.000			742.900	733.399	739.094	738.666
-10180.000			742.776	732.880	738.116	738.495
-10190.000			741.748	732.862	738.184	738.335
-10200.000	741.706	733.572	737.771	738.188		
-10210.000	740.799	733.801	737.457	738.052		
-10220.000	741.448	738.561	739.693	737.928		
-10230.000	742.922	739.603	741.297	737.816		
-10240.000	743.840	740.862	742.057	737.716		
-10250.000	744.547	740.330	742.355	737.624		
-10260.000	744.598	739.393	741.944	737.531		
-10270.000	744.888	737.377	741.528	737.439		
-10280.000	744.655	738.141	741.373	737.347		
-10290.000	744.825	736.474	741.115	737.255		
-10300.000	744.397	736.685	740.281	737.162		
-10310.000	743.347	734.973	740.623	737.070		
-10320.000	743.179	736.684	739.973	736.978		
-10330.000	743.212	736.792	739.877	736.873		
-10340.000	741.862	733.329	738.054	736.740		
-10350.000	740.137	733.489	736.106	736.580		
-10360.000	738.966	735.156	735.662	736.391		
-10370.000	738.228	737.008	737.493	736.175		
-10380.000	737.550	736.772	737.161	735.931		
-10390.000	736.941	736.174	736.558	735.660		
-10400.000	736.415	735.646	736.031	735.360		
-10410.000	735.979	735.197	735.587	735.033		
-10420.000	735.643	734.831	735.235	734.678		
-10430.000	735.627	734.470	734.980	734.295		
-10440.000	737.625	734.250	734.825	733.885		
-10450.000	739.732	734.228	736.821	733.446		
-10460.000	738.749	733.436	735.962	732.993		
-10470.000	738.156	732.220	734.760	732.540		
-10480.000	737.453	731.016	733.728	732.086		
-10490.000	736.995	729.827	733.044	731.633		
-10500.000	736.418	728.798	732.513	731.186		
-10510.000	735.149	727.395	731.117	730.500		
-10520.000	733.792	727.395	731.117	730.500		
-10530.000	732.370	728.731	729.924	730.274		
-10540.000	730.675	725.892	728.539	730.125		
-10550.000	730.728	724.993	727.667	730.054		
-10560.000	731.495	725.228	728.769	730.061		
-10570.000	732.141	726.085	729.677	730.146		
-10580.000	732.714	726.811	730.271	730.308		
-10590.000	733.191	727.199	730.226	730.548		
-10600.000	733.352	727.549	731.144	730.859		
-10610.000	733.513	728.858	732.747	731.183		
-10620.000	733.674	730.462	733.297	731.507		
-10630.000	733.834	732.065	733.443	731.831		
-10640.000	733.995	733.298	733.590	732.128		
-10650.000	734.156	733.444	733.736	732.368		
-10660.000	734.316	733.414	733.883	732.552		
-10670.000	734.477	732.597	734.030	732.679		
-10680.000	734.638	731.780	734.176	732.750		
-10690.000	734.798	730.963	734.323	732.764		
-10700.000	734.958	730.147	733.782	732.721		
-10710.000	735.120	730.273	732.966	732.623		
-10720.000	735.161	730.299	733.028	732.467		
-10730.000	734.813	731.153	733.172	732.255		
-10740.000	734.393	730.899	732.716	731.987		
-10750.000	734.021	730.321	732.188	731.662		
-10760.000	733.587	729.712	731.628	731.308		
-10770.000	733.174	729.124	731.048	730.953		
-10780.000	732.825	728.528	730.692	730.599		
-10790.000	732.542	727.813	730.189	730.245		
-10800.000	732.332	727.050	729.966	729.902		
-10810.000	732.000	726.809	729.481	729.623		
-10820.000	731.745	726.164	728.953	729.417		
-10830.000	731.624	725.468	728.671	729.282		
-10840.000	732.000	725.081	728.810	729.220		
-10850.000	732.397	725.602	729.161	729.229		
-10860.000	732.782	726.161	729.642	729.310		
-10870.000	733.140	726.702	729.994	729.462		
-10880.000	733.518	727.146	730.374	729.687		
-10890.000	733.884	727.457	730.700	729.983		
-10900.000	734.250	727.962	731.185	730.340		
-10910.000	734.617	728.486	731.552	730.695		
-10920.000	734.901	728.828	731.918	731.031		
-10930.000	735.053	729.112	732.002	731.347		
-10940.000	735.354	729.189	732.071	731.642		
-10950.000	735.318	729.410	732.327	731.918		
-10960.000	735.584	729.348	732.364	732.174		
-10970.000	735.450	729.405	732.430	732.410		
-10980.000	735.519	729.461	732.497	732.626		
-10990.000	735.723	729.518	732.581	732.823		
-11000.000	736.407	729.665	732.931	732.999		

R7	AUG 2023	FINAL DPR	CLIENT:  National Highways & Infrastructure Development Corporation Limited. 3rd Floor, PTI building, 4-Parliament Street, New Delhi-110001	PROJECT: Consultancy Services for Preparation of Feasibility study and Detailed Project Report for Two laning of Pango to Jorging Road (Length - 90km) for execution on EPC Mode in the state of Arunachal Pradesh under SARDP-NE Phase 'B'	DPR CONSULTANT:  Shweta Technophile Consultants Pvt. Ltd. (222-223,313, Rajhans Plaza, Ahinsa Khand-I, Indirapuram, Ghaziabad, UP-201014)	DRAWN BY	ASHISH RAWAT	TITLE: PLAN AND PROFILE FROM CH:10+000 TO CH:11+000	
R6	JAN 2023	MODIFIED DETAILED PROJECT REPORT				DESIGN BY	RAM SONKAR		
R5	JULY 2022	MODIFIED DETAILED PROJECT REPORT				CHECKED BY	GEETA JINDAL		
R4	AUG 2019	MODIFIED DETAILED PROJECT REPORT				HORIZONTAL SCALE 1:2000	VERTICAL SCALE 1:200		
R3	JULY 2018	DETAILED PROJECT REPORT						DRAWING NO.	
REV.	DATE	DESCRIPTION OF REVISIONS						NHIDCL/PANGO-JORGING/STC/PP- 21	A3

LEGEND

PLAN:-

PROP.CENTER LINE

PROP.CARRIAGEWAY EDGE

PROP.EARTHEN SHOULDER

TOE LINE

PROP.RIGHT OF WAY

CULVERT

MAJOR/MINOR BRIDGE

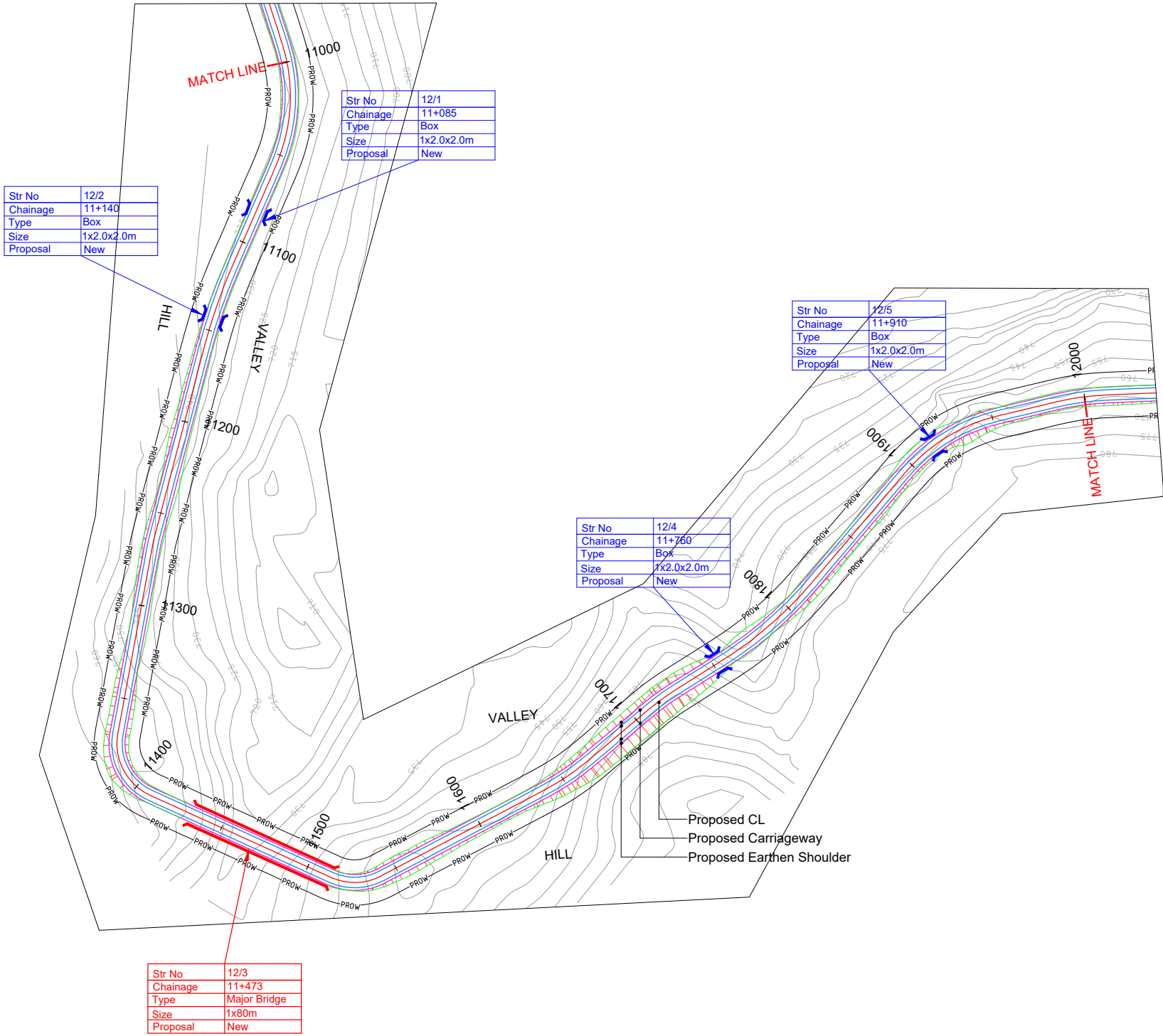
PROFILE:-

PROP.ROAD LEVEL

EXISTING GROUND LEVEL

GROUND LEVEL @6M LEFT

GROUND LEVEL @6M RIGHT



HIP NO. 81 AT CH. 11022.808				HIP NO. 82 AT CH. 11136.316				HIP NO. 83 AT CH. 11388.677				HIP NO. 84 AT CH. 11527.354				HIP NO. 85 AT CH. 11652.647				HIP NO. 86 AT CH. 11716.853				HIP NO. 87 AT CH. 11786.956				HIP NO. 88 AT CH. 11923.656				HIP NO. 89 AT CH. 11997.964			
X	668144.575	Y	3193567.432	X	668154.963	Y	3193681.106	X	668135.26	Y	3193936.129	X	667993.193	Y	3193954.555	X	667904.006	Y	3193865.111	X	667868.66	Y	3193811.503	X	667823.666	Y	3193757.609	X	667766.516	Y	3193632.959	X	667703.027	Y	3193593.754
R (m)	90	Ls (m)	15	R (m)	300	Ls (m)		R (m)	30	Ls (m)		R (m)	30	Ls (m)		R (m)	125	Ls (m)	15	R (m)	125	Ls (m)		R (m)	200	Ls (m)	15	R (m)	90	Ls (m)	15	R (m)	125	Ls (m)	15
Dc(deg)	31.8405	S(m)	0.1	Dc(deg)	8.8251	S(m)		Dc(deg)	76.0544	S(m)		Dc(deg)	52.1735	S(m)		Dc(deg)	5.5348	S(m)	0.08	Dc(deg)	7.9082	S(m)		Dc(deg)	13.1451	S(m)	0.05	Dc(deg)	26.7291	S(m)	0.1	Dc(deg)	4.1514	S(m)	0.08
Lc(m)	50.02	Ts(deg)	4.7746	Lc(m)	46.21	Ts(deg)		Lc(m)	39.82	Ts(deg)		Lc(m)	27.32	Ts(deg)		Lc(m)	12.07	Ts(deg)	3.4377	Lc(m)	17.25	Ts(deg)		Lc(m)	45.88	Ts(deg)	2.1486	Lc(m)	41.99	Ts(deg)	4.7746	Lc(m)	9.06	Ts(deg)	3.4377
Ts(m)	41.535	Δ(deg)	41.3898	Ts(m)	23.15	Δ(deg)	8.8251	Ts(m)	23.462	Δ(deg)	76.0544	Ts(m)	14.688	Δ(deg)	52.1735	Ts(m)	21.098	Δ(deg)	12.4103	Ts(m)	8.64	Δ(deg)	7.9082	Ts(m)	38.187	Δ(deg)	17.4423	Ts(m)	37.016	Δ(deg)	36.2784	Ts(m)	19.573	Δ(deg)	11.0269
Es(m)	6.315	e(%)	7.90%	Es(m)	0.892	e(%)	3.70%	Es(m)	8.085	e(%)	10.00%	Es(m)	3.403	e(%)	10.00%	Es(m)	0.817	e(%)	8.89%	Es(m)	0.298	e(%)	8.89%	Es(m)	2.39	e(%)	5.56%	Es(m)	4.812	e(%)	7.90%	Es(m)	0.661	e(%)	8.89%
V(km/hr)	40	We(m)	0.9	V(km/hr)	50	We(m)	0.6	V(km/hr)	30	We(m)	1.5	V(km/hr)	30	We(m)	1.5	V(km/hr)	50	We(m)	0.6	V(km/hr)	50	We(m)	0.6	V(km/hr)	50	We(m)	0.6	V(km/hr)	40	We(m)	0.9	V(km/hr)	50	We(m)	0.6
CurveType	RIGHT			CurveType	LEFT			CurveType	LEFT			CurveType	LEFT			CurveType	LEFT			CurveType	RIGHT			CurveType	LEFT			CurveType	RIGHT			CurveType	RIGHT		

LEGEND

PLAN:-

PROP.CENTER LINE

PROP.CARRIAGEWAY EDGE

PROP.EARTHEN SHOULDER

TOE LINE

PROP.RIGHT OF WAY

CULVERT

MAJOR/MINOR BRIDGE

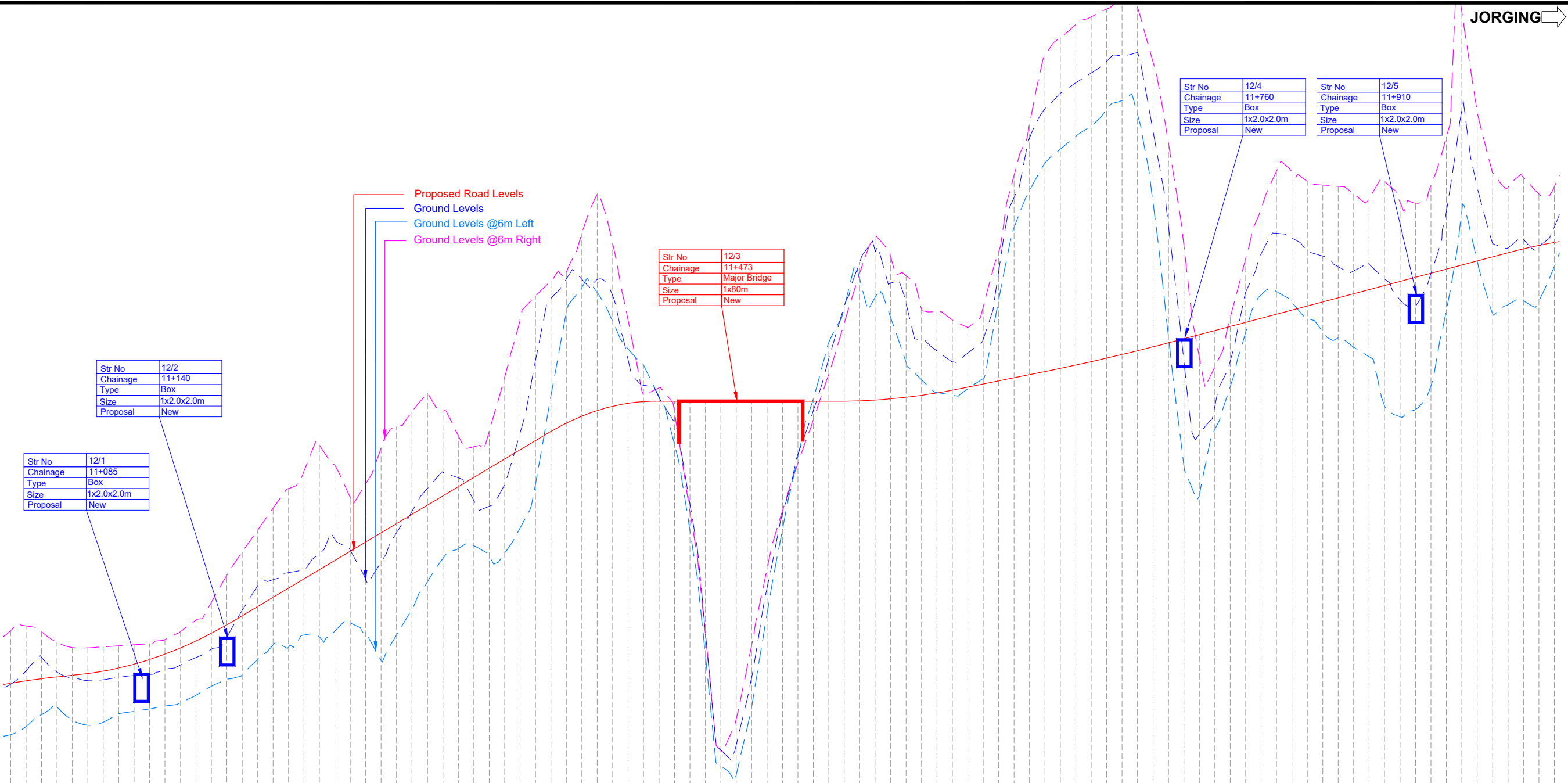
PROFILE:-

PROP.ROAD LEVEL

EXISTING GROUND LEVEL

GROUND LEVEL @6M LEFT

GROUND LEVEL @6M RIGHT



DATUM = 725	
Proposed Road Levels	729.999 732.931 733.155 733.292 733.409 733.514 733.625 733.779 733.982 734.234 734.535 734.886 735.297 735.761 736.285 736.874 737.534 741.547 742.144 742.741 743.338 743.935 744.532 745.129 745.725 746.322 746.919 747.516 748.113 748.710 749.304 749.898 750.495 751.092 751.689 752.286 752.883 753.480 754.077 754.674 755.271 755.868 756.465 757.062 757.659 758.256 758.853 759.450 760.047 760.644 761.241 761.838 762.435 763.032 763.629 764.226 764.823 765.420 766.017 766.614 767.211 767.808 768.405 769.002 769.599 770.196 770.793 771.390 771.987 772.584 773.181 773.778 774.375 774.972 775.569 776.166 776.763 777.360 777.957 778.554 779.151 779.748 780.345 780.942 781.539 782.136 782.733 783.330 783.927 784.524 785.121 785.718 786.315 786.912 787.509 788.106 788.703 789.300 789.897 790.494 791.091 791.688 792.285 792.882 793.479 794.076 794.673 795.270 795.867 796.464 797.061 797.658 798.255 798.852 799.449 800.046 800.643 801.240 801.837 802.434 803.031 803.628 804.225 804.822 805.419 806.016 806.613 807.210 807.807 808.404 809.001 809.598 810.195 810.792 811.389 811.986 812.583 813.180 813.777 814.374 814.971 815.568 816.165 816.762 817.359 817.956 818.553 819.150 819.747 820.344 820.941 821.538 822.135 822.732 823.329 823.926 824.523 825.120 825.717 826.314 826.911 827.508 828.105 828.702 829.299 829.896 830.493 831.090 831.687 832.284 832.881 833.478 834.075 834.672 835.269 835.866 836.463 837.060 837.657 838.254 838.851 839.448 840.045 840.642 841.239 841.836 842.433 843.030 843.627 844.224 844.821 845.418 846.015 846.612 847.209 847.806 848.403 849.000 849.597 850.194 850.791 851.388 851.985 852.582 853.179 853.776 854.373 854.970 855.567 856.164 856.761 857.358 857.955 858.552 859.149 859.746 860.343 860.940 861.537 862.134 862.731 863.328 863.925 864.522 865.119 865.716 866.313 866.910 867.507 868.104 868.701 869.298 869.895 870.492 871.089 871.686 872.283 872.880 873.477 874.074 874.671 875.268 875.865 876.462 877.059 877.656 878.253 878.850 879.447 880.044 880.641 881.238 881.835 882.432 883.029 883.626 884.223 884.820 885.417 886.014 886.611 887.208 887.805 888.402 889.000 889.597 890.194 890.791 891.388 891.985 892.582 893.179 893.776 894.373 894.970 895.567 896.164 896.761 897.358 897.955 898.552 899.149 899.746 900.343 900.940 901.537 902.134 902.731 903.328 903.925 904.522 905.119 905.716 906.313 906.910 907.507 908.104 908.701 909.298 909.895 910.492 911.089 911.686 912.283 912.880 913.477 914.074 914.671 915.268 915.865 916.462 917.059 917.656 918.253 918.850 919.447 920.044 920.641 921.238 921.835 922.432 923.029 923.626 924.223 924.820 925.417 926.014 926.611 927.208 927.805 928.402 929.000 929.597 930.194 930.791 931.388 931.985 932.582 933.179 933.776 934.373 934.970 935.567 936.164 936.761 937.358 937.955 938.552 939.149 939.746 940.343 940.940 941.537 942.134 942.731 943.328 943.925 944.522 945.119 945.716 946.313 946.910 947.507 948.104 948.701 949.298 949.895 950.492 951.089 951.686 952.283 952.880 953.477 954.074 954.671 955.268 955.865 956.462 957.059 957.656 958.253 958.850 959.447 960.044 960.641 961.238 961.835 962.432 963.029 963.626 964.223 964.820 965.417 966.014 966.611 967.208 967.805 968.402 969.000 969.597 970.194 970.791 971.388 971.985 972.582 973.179 973.776 974.373 974.970 975.567 976.164 976.761 977.358 977.955 978.552 979.149 979.746 980.343 980.940 981.537 982.134 982.731 983.328 983.925 984.522 985.119 985.716 986.313 986.910 987.507 988.104 988.701 989.298 989.895 990.492 991.089 991.686 992.283 992.880 993.477 994.074 994.671 995.268 995.865 996.462 997.059 997.656 998.253 998.850 999.447 1000.044 1000.641 1001.238 1001.835 1002.432 1003.029 1003.626 1004.223 1004.820 1005.417 1006.014 1006.611 1007.208 1007.805 1008.402 1009.000 1009.597 1010.194 1010.791 1011.388 1011.985 1012.582 1013.179 1013.776 1014.373 1014.970 1015.567 1016.164 1016.761 1017.358 1017.955 1018.552 1019.149 1019.746 1020.343 1020.940 1021.537 1022.134 1022.731 1023.328 1023.925 1024.522 1025.119 1025.716 1026.313 1026.910 1027.507 1028.104 1028.701 1029.298 1029.895 1030.492 1031.089 1031.686 1032.283 1032.880 1033.477 1034.074 1034.671 1035.268 1035.865 1036.462 1037.059 1037.656 1038.253 1038.850 1039.447 1040.044 1040.641 1041.238 1041.835 1042.432 1043.029 1043.626 1044.223 1044.820 1045.417 1046.014 1046.611 1047.208 1047.805 1048.402 1049.000 1049.597 1050.194 1050.791 1051.388 1051.985 1052.582 1053.179 1053.776 1054.373 1054.970 1055.567 1056.164 1056.761 1057.358 1057.955 1058.552 1059.149 1059.746 1060.343 1060.940 1061.537 1062.134 1062.731 1063.328 1063.925 1064.522 1065.119 1065.716 1066.313 1066.910 1067.507 1068.104 1068.701 1069.298 1069.895 1070.492 1071.089 1071.686 1072.283 1072.880 1073.477 1074.074 1074.671 1075.268 1075.865 1076.462 1077.059 1077.656 1078.253 1078.850 1079.447 1080.044 1080.641 1081.238 1081.835 1082.432 1083.029 1083.626 1084.223 1084.820 1085.417 1086.014 1086.611 1087.208 1087.805 1088.402 1089.000 1089.597 1090.194 1090.791 1091.388 1091.985 1092.582 1093.179 1093.776 1094.373 1094.970 1095.567 1096.164 1096.761 1097.358 1097.955 1098.552 1099.149 1099.746 1100.343 1100.940 1101.537 1102.134 1102.731 1103.328 1103.925 1104.522 1105.119 1105.716 1106.313 1106.910 1107.507 1108.104 1108.701 1109.298 1109.895 1110.492 1111.089 1111.686 1112.283 1112.880 1113.477 1114.074 1114.671 1115.268 1115.865 1116.462 1117.059 1117.656 1118.253 1118.850 1119.447 1120.044 1120.641 1121.238 1121.835 1122.432 1123.029 1123.626 1124.223 1124.820 1125.417 1126.014 1126.611 1127.208 1127.805 1128.402 1129.000 1129.597 1130.194 1130.791 1131.388 1131.985 1132.582 1133.179 1133.776 1134.373 1134.970 1135.567 1136.164 1136.761 1137.358 1137.955 1138.552 1139.149 1139.746 1140.343 1140.940 1141.537 1142.134 1142.731 1143.328 1143.925 1144.522 1145.119 1145.716 1146.313 1146.910 1147.507 1148.104 1148.701 1149.298 1149.895 1150.492 1151.089 1151.686 1152.283 1152.880 1153.477 1154.074 1154.671 1155.268 1155.865 1156.462 1157.059 1157.656 1158.253 1158.850 1159.447 1160.044 1160.641 1161.238 1161.835 1162.432 1163.029 1163.626 1164.223 1164.820 1165.417 1166.014 1166.611 1167.208 1167.805 1168.402 1169.000 1169.597 1170.194 1170.791 1171.388 1171.985 1172.582 1173.179 1173.776 1174.373 1174.970 1175.567 1176.164 1176.761 1177.358 1177.955 1178.552 1179.149 1179.746 1180.343 1180.940 1181.537 1182.134 1182.731 1183.328 1183.925 1184.522 1185.119 1185.716 1186.313 1186.910 1187.507 1188.104 1188.701 1189.298 1189.895 1190.492 1191.089 1191.686 1192.283 1192.880 1193.477 1194.074 1194.671 1195.268 1195.865 1196.462 1197.059 1197.656 1198.253 1198.850 1199.447 1200.044 1200.641 1201.238 1201.835 1202.432 1203.029 1203.626 1204.223 1204.820 1205.417 1206.014 1206.611 1207.208 1207.805 1208.402 1209.000 1209.597 1210.194 1210.791 1211.388 1211.985 1212.582 1213.179 1213.776 1214.373 1214.970 1215.567 1216.164 1216.761 1217.358 1217.955 1218.552 1219.149 1219.746 1220.343 1220.940 1221.537 1222.134 1222.731 1223.328 1223.925 1224.522 1225.119 1225.716 1226.313 1226.910 1227.507 1228.104 1228.701 1229.298 1229.895 1230.492 1231.089 1231.686 1232.283 1232.880 1233.477 1234.074 1234.671 1235.268 1235.865 1236.462 1237.059 1237.656 1238.253 1238.850 1239.447 1240.044 1240.641 1241.238 1241.835 1242.432 1243.029 1243.626 1244.223 1244.820 1245.417 1246.014 1246.611 1247.208 1247.805 1248.402 1249.000 1249.597 1250.194 1250.791 1251.388 1251.985 1252.582 1253.179 1253.776 1254.373 1254.970 1255.567 1256.164 1256.761 1257.358 1257.955 1258.552 1259.149 1259.746 1260.343 1260.940 1261.537 1262.134 1262.731 1263.328 1263.925 1264.522 1265.119 1265.716 1266.313 1266.910 1267.507 1268.104 1268.701 1269.298 1269.895 1270.492 1271.089 1271.686 1272.283 1272.880 1273.477 1274.074 1274.671 1275.268 1275.865 1276.462 1277.059 1277.656 1278.253 1278.850 1279.447 1280.044 1280.641 1281.238 1281.835 1282.432 1283.029 1283.626 1284.223 1284.820 1285.417 1286.014 1286.611 1287.208 1287.805 1288.402 1289.000 1289.597 1290.194 1290.791 1291.388 1291.985 1292.582 1293.179 1293.776 1294.373 1294.970 1295.567 1296.164 1296.761 1297.358 1297.955 1298.552 1299.149 1299.746 1300.343 1300.940 1301.537 1302.134 1302.731 1303.328 1303.925 1304.522 1305.119 1305.716 1306.313 1306.910 1307.507 1308.104 1308.701 1309.298 1309.895 1310.492 1311.089 1311.686 1312.283 1312.880 1313.477 1314.074 1314.671 1315.268 1315.865 1316.462 1317.059 1317.656 1318.253 1318.850 1319.447 1320.044 1320.641 1321.238 1321.835 1322.432 1323.029 1323.626 1324.223 1324.820 1325.417 1326.014 1326.611 1327.208 1327.805 1328.402 1329.000 1329.597 1330.194 1330.791 1331.388 1331.985 1332.582 1333.179 1333.776 1334.373 1334.970 1335.567 1336.164 1336.761 1337.358 1337.955 1338.552 1339.149 1339.746 1340.343 1340.940 1341.537 1342.134 1342.731 1343.328 1343.925 1344.522 1345.119 1345.716 1346.313 1346.910 1347.507 1348.104 1348.701 1349.298 1349.895 1350.492 1351.089 1351.686 1352.283 1352.880 1353.477 1354.074 1354.671 1355.268 1355.865 1356.462 1357.059 1357.656 1358.253 1358.850 1359.447 1360.044 1360.641 1361.238 1361.835 1362.432 1363.029 1363.626 1364.223 1364.820 1365.417 1366.014 1366.611 1367.208 1367.805 1368.402 1369.000 1369.597 1370.194 1370.791 1371.388 1371.985 1372.582 1373.179 1373.776 1374.373 1374.970 1375.567 1376.164 1376.761 1377.358 1377.955 1378.552 1379.149 1379.746 1380.343 1380.940 1381.537 1382.134 1382.731 1383.328 1383.925 1384.522 1385.119 1385.716 1386.313 1386.910 1387.507 1388.104 1388.701 1389.298 1389.895 1390.492 1391.089 1391.686 1392.283 1392.880 1393.477 1394.074 1394.671 1395.268 1395.865 1396.462 1397.059 1397.656 1398.253 1398.850 1399.447 1400.044 1400.641 1401.238 1401.835 1402.432 1403.029 1403.626 1404.223 1404.820 1405.417 1406.014 1406.611 1407.208 1407.805 1408.402 1409.000 1409.597 1410.194 1410.791 1411.388 1411.985 1412.582 1413.179 1413.776 1414.373 1414.970 1415.567 1416.164 1416.761 1417.358 1417.955 1418.552 1419.149 1419.746 1420.343 1420.940 1421.537 1422.134 1422.731 1423.328 1423.925 1424.522 1425.119 1425.716 1426.313 1426.910 1427.507 1428.104 1428.701 1429.298 1429.895 1430.492 1431.089 1431.686 1432.283 1432.880 1433.477 1434.074 1434.671 1435.268 1435.865 1436.462 1437.059 1437.656 1438.253 1438.850 1439.447 1440.044 1440.641 1441.238 1441.835 1442.432 1443.029 1443.626 1444.223 1444.820 1445.417 1446.014 1446.611 1447.208 1447.805 1448.402 1449.000 1449.597 1450.194 1450.791 1451.388 1451.985 1452.582 1453.179 1453.776 1454.373 1454.970 1455.567 1456.164 1456.761 1457.358 1457.955 1458.552 1459.149 1459.746 1460.343 1460.940 1461.537 1462.134 1462.731 1463.328 1463.925 1464.522 1465.119 1465.716 1466.313 1466.910 1467.507 1468.104 1468.701 1469.298 1469.895 1470.492 1471.089 1471.686 1472.283 1472.880 1473.477 1474.074 1474.671 1475.2

LEGEND

PLAN:-

PROP.CENTER LINE

PROP.CARRIAGEWAY EDGE

PROP.EARTHEN SHOULDER

TOE LINE

PROP.RIGHT OF WAY

CULVERT

MAJOR/MINOR BRIDGE

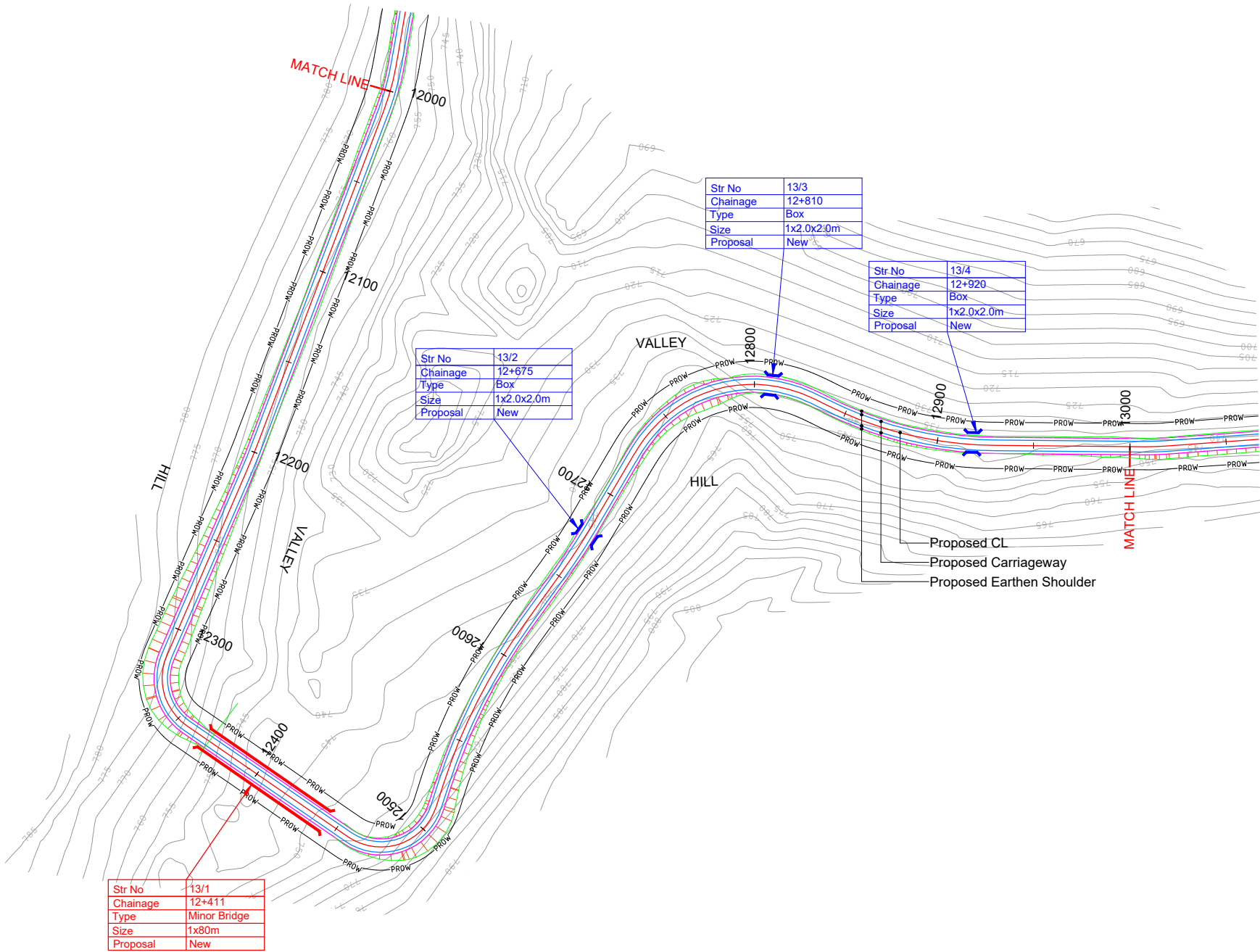
PROFILE:-

PROP.ROAD LEVEL

EXISTING GROUND LEVEL

GROUND LEVEL @6M LEFT

GROUND LEVEL @6M RIGHT

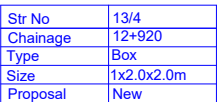


HIP NO. 90 AT CH. 12202.853				HIP NO. 91 AT CH. 12335.449				HIP NO. 92 AT CH. 12485.468				HIP NO. 93 AT CH. 12572.509				HIP NO. 94 AT CH. 12665.166				HIP NO. 95 AT CH. 12778.908				HIP NO. 96 AT CH. 12884.777			
X = 667509.995		Y = 3193525.092		X = 667379.175		Y = 3193485.691		X = 667395.549		Y = 3193320.072		X = 667487.879		Y = 3193358.001		X = 667580.678		Y = 3193364.971		X = 667700.835		Y = 3193379.063		X = 667733.846		Y = 3193270.056	
R (m)	350	Ls (m)		R (m)	30	Ls (m)		R (m)	30	Ls (m)		R (m)	300	Ls (m)		R (m)	300	Ls (m)		R (m)	70	Ls (m)	15	R (m)	200	Ls (m)	
Dc(deg)	2.6592	S(m)		Dc(deg)	78.8848	S(m)		Dc(deg)	106.6867	S(m)		Dc(deg)	18.0371	S(m)		Dc(deg)	5.2978	S(m)		Dc(deg)	73.5539	S(m)	0.13	Dc(deg)	25.9063	S(m)	
Lc(m)	16.24	Ts(deg)		Lc(m)	41.3	Ts(deg)		Lc(m)	55.86	Ts(deg)		Lc(m)	94.44	Ts(deg)		Lc(m)	27.74	Ts(deg)		Lc(m)	89.86	Ts(deg)	6.1388	Lc(m)	90.43	Ts(deg)	
Ts(m)	8.123	Δ(deg)	2.6592	Ts(m)	24.679	Δ(deg)	78.8848	Ts(m)	40.312	Δ(deg)	106.6867	Ts(m)	47.615	Δ(deg)	18.0371	Ts(m)	13.879	Δ(deg)	5.2978	Ts(m)	72.702	Δ(deg)	85.8315	Ts(m)	46.001	Δ(deg)	25.9063
Es(m)	0.094	e(%)	3.17%	Es(m)	8.847	e(%)	10.00%	Es(m)	20.25	e(%)	10.00%	Es(m)	3.755	e(%)	3.70%	Es(m)	0.321	e(%)	3.70%	Es(m)	25.759	e(%)	10.00%	Es(m)	5.222	e(%)	5.56%
V(km/hr)	50	We(m)	Nil	V(km/hr)	30	We(m)	1.5	V(km/hr)	30	We(m)	1.5	V(km/hr)	50	We(m)	0.6	V(km/hr)	50	We(m)	0.6	V(km/hr)	40	We(m)	0.9	V(km/hr)	50	We(m)	0.6
CurveType	RIGHT			CurveType	LEFT			CurveType	LEFT			CurveType	RIGHT			CurveType	LEFT			CurveType	RIGHT			CurveType	LEFT		

PLAN:-

PROFILE:-

Proposed Road Levels
Ground Levels
Ground Levels @6m Left
Ground Levels @6m Right

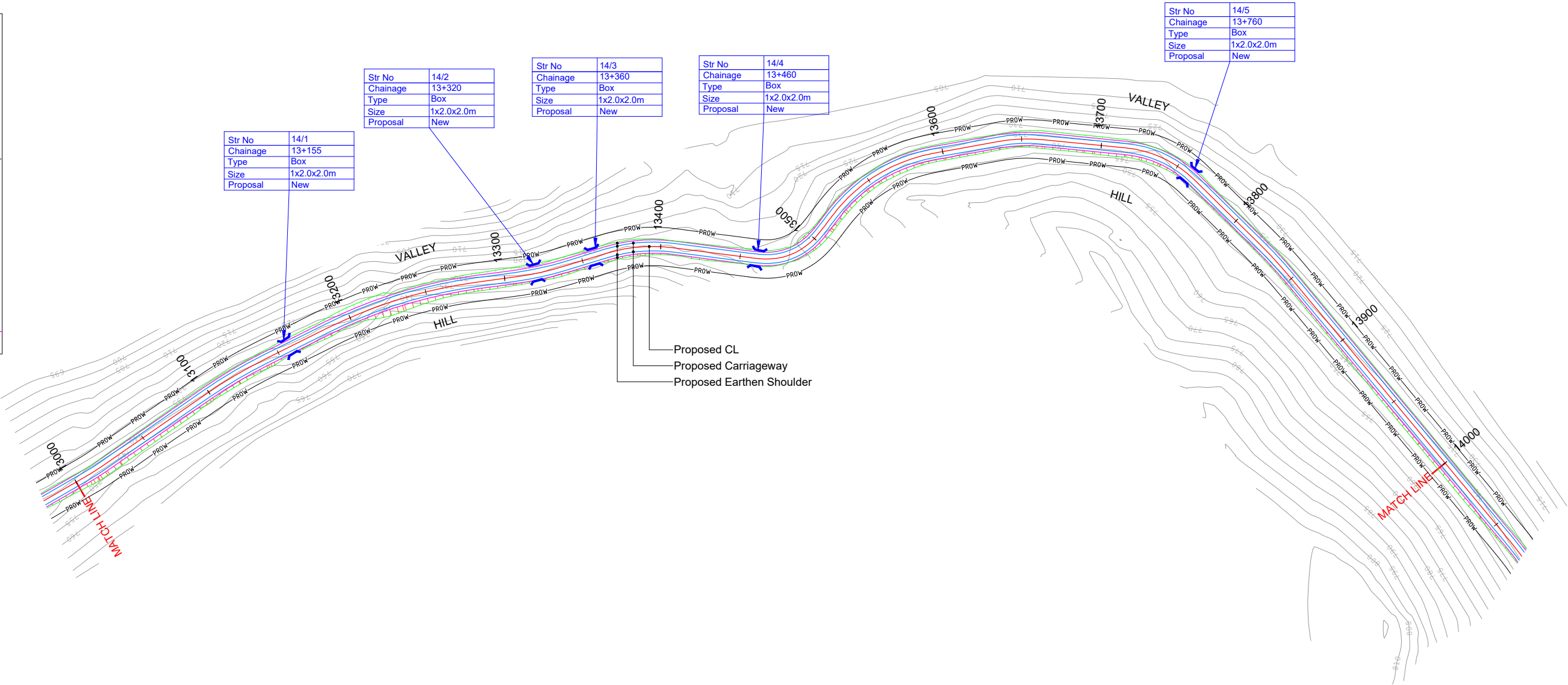
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Technophile Consultants Pvt. Ltd.
Indirapuram

LEGEND

PLAN:-
PROP.CENTER LINE
PROP.CARRIAGEWAY EDGE
PROP.EARTHEN SHOULDER
TOE LINE
PROP.RIGHT OF WAY
CULVERT
MAJOR/MINOR BRIDGE

PROFILE:-
PROP.ROAD LEVEL
EXISTING GROUND LEVEL
GROUND LEVEL @6M LEFT
GROUND LEVEL @6M RIGHT



HIP NO. 97 AT CH. 13013.305				HIP NO. 98 AT CH. 13119.565				HIP NO. 99 AT CH. 13233.51				HIP NO. 100 AT CH. 13322.767				HIP NO. 101 AT CH. 13386.742				HIP NO. 102 AT CH. 13482.924				HIP NO. 103 AT CH. 13556.363				HIP NO. 104 AT CH. 13649.499				HIP NO. 105 AT CH. 13739.639				HIP NO. 106 AT CH. 13835.691			
X = 667816.395	Y = 3193170.515			X = 667890.716	Y = 3193094.514			X = 667958.134	Y = 3193002.057			X = 667984.868	Y = 3192916.395			X = 668013.726	Y = 3192858.89			X = 668021.05	Y = 3192762.346			X = 668084.304	Y = 3192722.491			X = 668118.761	Y = 3192634.946			X = 668124.997	Y = 3192543.977			X = 668069.467	Y = 3192464.423		
R (m)	130	Ls (m)		R (m)	300	Ls (m)		R (m)	300	Ls (m)		R (m)	200	Ls (m)		R (m)	100	Ls (m)		R (m)	40	Ls (m)	15	R (m)	100	Ls (m)	15	R (m)	100	Ls (m)		R (m)	70	Ls (m)		R (m)	300	Ls (m)	
Dc(deg)	4.6912	S(m)		Dc(deg)	8.2607	S(m)		Dc(deg)	18.767	S(m)		Dc(deg)	9.3177	S(m)		Dc(deg)	24.4218	S(m)		Dc(deg)	38.8594	S(m)	0.23	Dc(deg)	34.1236	S(m)	0.09	Dc(deg)	15.9334	S(m)		Dc(deg)	38.8375	S(m)		Dc(deg)	5.6742	S(m)	
Lc(m)	10.64	Ts(deg)		Lc(m)	43.25	Ts(deg)		Lc(m)	98.26	Ts(deg)		Lc(m)	32.52	Ts(deg)		Lc(m)	42.62	Ts(deg)		Lc(m)	27.13	Ts(deg)	10.743	Lc(m)	59.56	Ts(deg)	4.2972	Lc(m)	27.81	Ts(deg)		Lc(m)	47.45	Ts(deg)		Lc(m)	29.71	Ts(deg)	
Ts(m)	5.325	Δ(deg)	4.6912	Ts(m)	21.664	Δ(deg)	8.2607	Ts(m)	49.576	Δ(deg)	18.767	Ts(m)	16.298	Δ(deg)	9.3177	Ts(m)	21.641	Δ(deg)	24.4218	Ts(m)	30.88	Δ(deg)	60.3453	Ts(m)	46.641	Δ(deg)	42.718	Ts(m)	13.995	Δ(deg)	15.9334	Ts(m)	24.677	Δ(deg)	38.8375	Ts(m)	14.867	Δ(deg)	5.6742
Es(m)	0.109	e(%)	8.55%	Es(m)	0.781	e(%)	3.70%	Es(m)	4.069	e(%)	3.70%	Es(m)	0.663	e(%)	5.56%	Es(m)	2.315	e(%)	10.00%	Es(m)	6.535	e(%)	10.00%	Es(m)	7.472	e(%)	10.00%	Es(m)	0.975	e(%)	10.00%	Es(m)	4.222	e(%)	10.00%	Es(m)	0.368	e(%)	3.70%
V(km/hr)	50	We(m)	0.6	V(km/hr)	50	We(m)	0.6	V(km/hr)	50	We(m)	0.6	V(km/hr)	50	We(m)	0.6	V(km/hr)	50	We(m)	0.9	V(km/hr)	30	We(m)	1.5	V(km/hr)	50	We(m)	0.9	V(km/hr)	50	We(m)	0.9	V(km/hr)	40	We(m)	0.9	V(km/hr)	50	We(m)	0.6
CurveType	LEFT			CurveType	RIGHT			CurveType	RIGHT			CurveType	LEFT			CurveType	RIGHT			CurveType	LEFT			CurveType	RIGHT			CurveType	RIGHT			CurveType	RIGHT			CurveType	RIGHT		

LEGEND

PLAN:-

PROP.CENTER LINE

PROP.CARRIAGEWAY EDGE

PROP.EARTHEN SHOULDER

TOE LINE

PROP.RIGHT OF WAY

CULVERT

MAJOR/MINOR BRIDGE

PROFILE:-

PROP.ROAD LEVEL

EXISTING GROUND LEVEL

GROUND LEVEL @6M LEFT

GROUND LEVEL @6M RIGHT

Str No	14/1
Chainage	13+155
Type	Box
Size	1x2.0x2.0m
Proposal	New

Str No	14/2
Chainage	13+320
Type	Box
Size	1x2.0x2.0m
Proposal	New

Str No	14/3
Chainage	13+360
Type	Box
Size	1x2.0x2.0m
Proposal	New

Str No	14/4
Chainage	13+460
Type	Box
Size	1x2.0x2.0m
Proposal	New

Str No	14/5
Chainage	13+760
Type	Box
Size	1x2.0x2.0m
Proposal	New



Proposed Road Levels	745.267, 745.833, 747.669, 749.072, 748.838, 748.346, 748.343, 748.085, 747.739, 747.364, 746.844, 744.477, 746.299, 746.435, 746.355, 745.349, 743.994, 741.427, 741.065, 742.174, 742.196, 739.713, 740.268, 746.207, 749.901, 746.916, 744.200, 741.865, 740.397, 739.455, 738.767, 737.939, 737.109, 736.612, 736.887, 736.916, 735.703, 734.485, 735.304, 734.661, 735.115, 733.673, 731.784, 733.626, 733.312, 732.463, 731.362, 729.568, 728.265, 730.290, 733.616, 736.467, 739.525, 740.527, 741.052, 740.923, 741.497, 741.478, 742.622, 742.797, 741.380, 741.403, 741.603, 741.826, 741.774, 741.241, 741.049, 742.505, 742.804, 742.898, 743.192, 743.777, 744.174, 743.548, 744.418, 743.299, 740.896, 739.982, 740.444, 741.302, 741.230, 740.950, 741.146, 741.701, 742.037, 742.391, 742.812, 743.159, 743.508, 743.856, 744.204, 744.447, 744.899, 745.181, 745.903, 746.442, 746.544, 746.647, 746.750, 746.852, 746.954
Ground Levels	737.301, 736.805, 736.505, 736.172, 735.981, 735.853, 735.387, 734.973, 734.635, 734.656, 735.054, 734.078, 733.415, 731.644, 731.282, 730.920, 728.062, 726.360, 726.091, 725.166, 731.272, 729.352, 728.756, 728.901, 728.146, 727.066, 726.254, 725.456, 724.217, 723.731, 724.760, 724.585, 724.164, 723.916, 725.241, 724.935, 726.002, 726.768, 728.194, 727.082, 726.739, 726.422, 725.020, 725.200, 726.217, 726.764, 728.354, 728.671, 733.840, 733.915, 735.356, 735.436, 734.069, 733.466, 731.941, 731.551, 731.791, 731.513, 731.703, 731.592, 732.394, 734.196, 733.539, 732.288, 731.503, 731.549, 731.503, 731.716, 731.773, 731.810, 732.058, 733.118, 733.279, 734.426, 733.664, 732.761, 732.906, 733.904, 734.878, 735.545, 735.154, 734.697, 734.415, 735.051, 735.483, 735.710, 735.943, 736.459, 736.653, 736.501, 736.810, 737.234, 737.548, 737.430, 737.456, 737.491, 737.525, 737.731, 737.811, 737.915
Ground Levels @6m Left	737.301, 736.805, 736.505, 736.172, 735.981, 735.853, 735.387, 734.973, 734.635, 734.656, 735.054, 734.078, 733.415, 731.644, 731.282, 730.920, 728.062, 726.360, 726.091, 725.166, 731.272, 729.352, 728.756, 728.901, 728.146, 727.066, 726.254, 725.456, 724.217, 723.731, 724.760, 724.585, 724.164, 723.916, 725.241, 724.935, 726.002, 726.768, 728.194, 727.082, 726.739, 726.422, 725.020, 725.200, 726.217, 726.764, 728.354, 728.671, 733.840, 733.915, 735.356, 735.436, 734.069, 733.466, 731.941, 731.551, 731.791, 731.513, 731.703, 731.592, 732.394, 734.196, 733.539, 732.288, 731.503, 731.549, 731.503, 731.716, 731.773, 731.810, 732.058, 733.118, 733.279, 734.426, 733.664, 732.761, 732.906, 733.904, 734.878, 735.545, 735.154, 734.697, 734.415, 735.051, 735.483, 735.710, 735.943, 736.459, 736.653, 736.501, 736.810, 737.234, 737.548, 737.430, 737.456, 737.491, 737.525, 737.731, 737.811, 737.915
Ground Levels @6m Right	745.267, 745.833, 747.669, 749.072, 748.838, 748.346, 748.343, 748.085, 747.739, 747.364, 746.844, 744.477, 746.299, 746.435, 746.355, 745.349, 743.994, 741.427, 741.065, 742.174, 742.196, 739.713, 740.268, 746.207, 749.901, 746.916, 744.200, 741.865, 740.397, 739.455, 738.767, 737.939, 737.109, 736.612, 736.887, 736.916, 735.703, 734.485, 735.304, 734.661, 735.115, 733.673, 731.784, 733.626, 733.312, 732.463, 731.362, 729.568, 728.265, 730.290, 733.616, 736.467, 739.525, 740.527, 741.052, 740.923, 741.497, 741.478, 742.622, 742.797, 741.380, 741.403, 741.603, 741.826, 741.774, 741.241, 741.049, 742.505, 742.804, 742.898, 743.192, 743.777, 744.174, 743.548, 744.418, 743.299, 740.896, 739.982, 740.444, 741.302, 741.230, 740.950, 741.146, 741.701, 742.037, 742.391, 742.812, 743.159, 743.508, 743.856, 744.204, 744.447, 744.899, 745.181, 745.903, 746.442, 746.544, 746.647, 746.750, 746.852, 746.954
Vertical Alignment	R=3324.430 L=130.000 G=-3.409% L=220.273 R=1488.366 L=120.000 G=4.654% L=63.232 R=3065.831 L=150.000 G=-0.239% L=30.893 R=4881.887 L=130.000 G=2.424% L=34.058 R=3698.926 L=150.000
Horizontal Alignment	R: 130.000 L: 10.644 R: 300.000 L: 43.253 L: 43.187 R: 300.000 L: 98.263 L: 23.862 R: 200.000 L: 32.525 L: 26.401 R: 100.000 L: 42.624 L: 46.305 L: 15.000 R: 40.000 L: 27.129 L: 10.096 R: 100.000 L: 59.557 L: 15.000 R: 100.000 L: 34.453 L: 27.809 L: 52.511 R: 70.000 L: 47.449 L: 57.473 R: 300.000 L: 29.710 L: 205.778
Chainage	13000.000, 13010.000, 13020.000, 13030.000, 13040.000, 13050.000, 13060.000, 13070.000, 13080.000, 13090.000, 13100.000, 13110.000, 13120.000, 13130.000, 13140.000, 13150.000, 13160.000, 13170.000, 13180.000, 13190.000, 13200.000, 13210.000, 13220.000, 13230.000, 13240.000, 13250.000, 13260.000, 13270.000, 13280.000, 13290.000, 13300.000, 13310.000, 13320.000, 13330.000, 13340.000, 13350.000, 13360.000, 13370.000, 13380.000, 13390.000, 13400.000, 13410.000, 13420.000, 13430.000, 13440.000, 13450.000, 13460.000, 13470.000, 13480.000, 13490.000, 13500.000, 13510.000, 13520.000, 13530.000, 13540.000, 13550.000, 13560.000, 13570.000, 13580.000, 13590.000, 13600.000, 13610.000, 13620.000, 13630.000, 13640.000, 13650.000, 13660.000, 13670.000, 13680.000, 13690.000, 13700.000, 13710.000, 13720.000, 13730.000, 13740.000, 13750.000, 13760.000, 13770.000, 13780.000, 13790.000, 13800.000, 13810.000, 13820.000, 13830.000, 13840.000, 13850.000, 13860.000, 13870.000, 13880.000, 13890.000, 13900.000, 13910.000, 13920.000, 13930.000, 13940.000, 13950.000, 13960.000, 13970.000, 13980.000, 13990.000, 14000.000

LEGEND

PLAN:-

PROP.CENTER LINE

PROP.CARRIAGEWAY EDGE

PROP.EARTHEN SHOULDER

TOE LINE

PROP.RIGHT OF WAY

CULVERT

MAJOR/MINOR BRIDGE

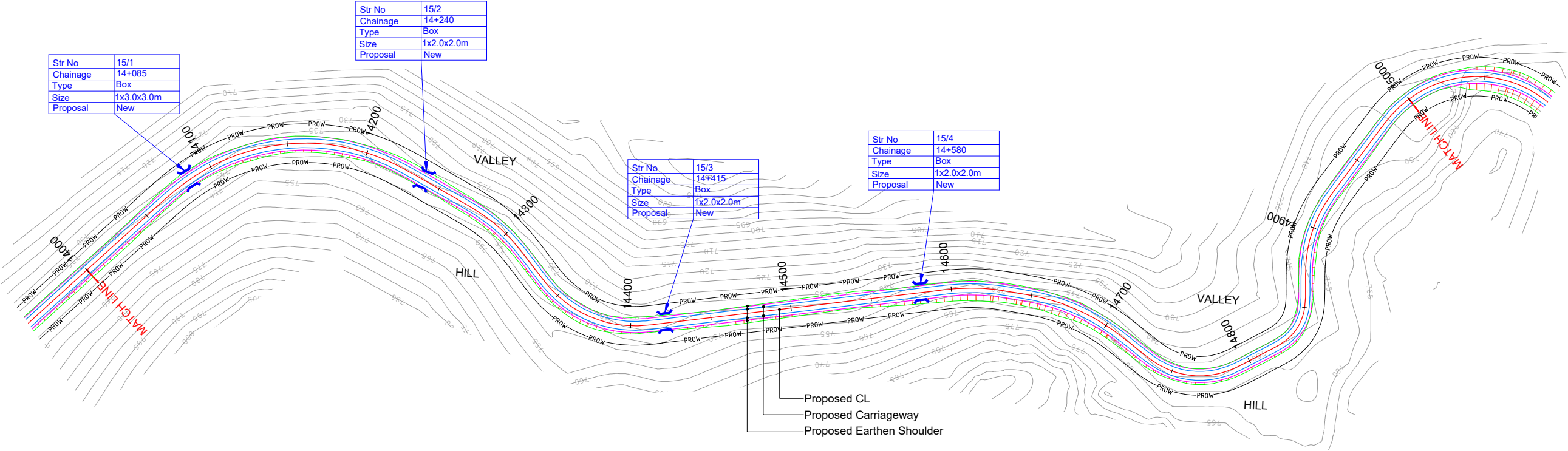
PROFILE:-

PROP.ROAD LEVEL

EXISTING GROUND LEVEL

GROUND LEVEL @6M LEFT

GROUND LEVEL @6M RIGHT



HIP NO. 107 AT CH. 14147.443	HIP NO. 108 AT CH. 14294.113	HIP NO. 109 AT CH. 14374.256	HIP NO. 110 AT CH. 14615.744	HIP NO. 111 AT CH. 14680.323	HIP NO. 112 AT CH. 14762.721	HIP NO. 113 AT CH. 14837.156	HIP NO. 114 AT CH. 14898.001
X = 667856.186 Y = 3192227.984	X = 667712.505 Y = 3192281.326	X = 667651.338 Y = 3192335.715	X = 667414.328 Y = 3192281.554	X = 667349.62 Y = 3192285.443	X = 667275.037 Y = 3192323.973	X = 667212.655 Y = 3192281.57	X = 667214.445 Y = 3192220.377
R (m) 125 Ls (m) 25	R (m) 100 Ls (m) 25	R (m) 70 Ls (m) 15	R (m) 125 Ls (m) 15	R (m) 125 Ls (m) 15	R (m) 50 Ls (m) 15	R (m) 30 Ls (m) 15	R (m) 80 Ls (m) 15
Dc(deg) 60.613 S(m) 0.21	Dc(deg) 8.7324 S(m) 0.26	Dc(deg) 47.4368 S(m) 0.13	Dc(deg) 9.8613 S(m) 0.08	Dc(deg) 21.7215 S(m) 0.08	Dc(deg) 48.8492 S(m) 0.19	Dc(deg) 33.6555 S(m) 0.31	Dc(deg) 25.9622 S(m) 0.12
Lc(m) 132.24 Ts(deg) 5.7296	Lc(m) 15.24 Ts(deg) 7.162	Lc(m) 57.95 Ts(deg) 6.1388	Lc(m) 21.51 Ts(deg) 3.4377	Lc(m) 47.39 Ts(deg) 3.4377	Lc(m) 42.63 Ts(deg) 8.5944	Lc(m) 17.62 Ts(deg) 14.3239	Lc(m) 36.25 Ts(deg) 5.3715
Ts(m) 103.587 Δ(deg) 72.0721	Ts(m) 32.943 Δ(deg) 23.0564	Ts(m) 47.754 Δ(deg) 59.7145	Ts(m) 25.899 Δ(deg) 16.7368	Ts(m) 39.378 Δ(deg) 28.597	Ts(m) 40.112 Δ(deg) 66.038	Ts(m) 25.806 Δ(deg) 62.3034	Ts(m) 34.077 Δ(deg) 36.7051
Es(m) 29.839 e(%) 8.89%	Es(m) 2.324 e(%) 10.00%	Es(m) 10.863 e(%) 10.00%	Es(m) 1.426 e(%) 8.89%	Es(m) 4.079 e(%) 8.89%	Es(m) 9.858 e(%) 10.00%	Es(m) 5.417 e(%) 10.00%	Es(m) 4.414 e(%) 8.89%
V(km/hr) 50 We(m) 0.6	V(km/hr) 50 We(m) 0.9	V(km/hr) 40 We(m) 0.9	V(km/hr) 50 We(m) 0.6	V(km/hr) 50 We(m) 0.6	V(km/hr) 40 We(m) 1.2	V(km/hr) 30 We(m) 1.5	V(km/hr) 40 We(m) 0.9
CurveType RIGHT	CurveType RIGHT	CurveType LEFT	CurveType RIGHT	CurveType RIGHT	CurveType LEFT	CurveType LEFT	CurveType RIGHT

LEGEND

PLAN:-

PROP.CENTER LINE

PROP.CARRIAGEWAY EDGE

PROP.EARTHEN SHOULDER

TOE LINE

PROP.RIGHT OF WAY

CULVERT

MAJOR/MINOR BRIDGE

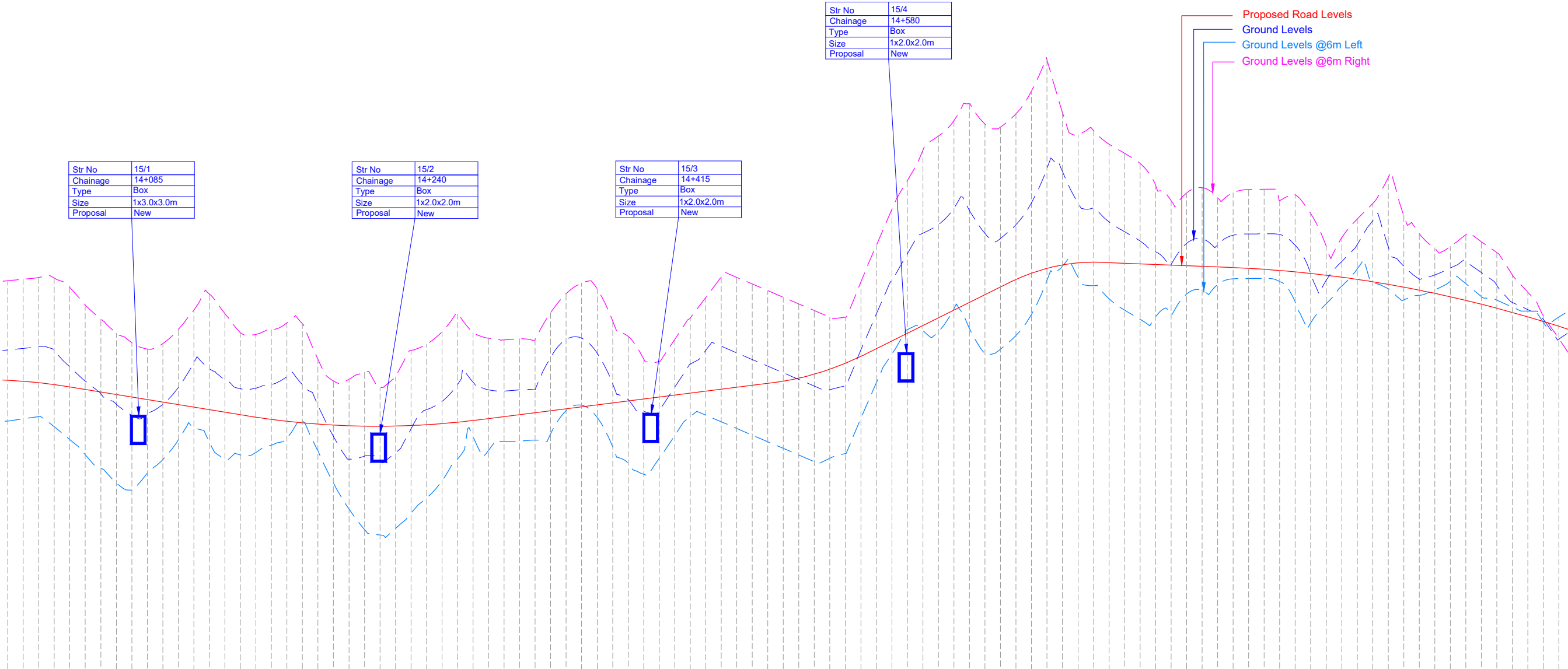
PROFILE:-

PROP.ROAD LEVEL

EXISTING GROUND LEVEL

GROUND LEVEL @6M LEFT

GROUND LEVEL @6M RIGHT



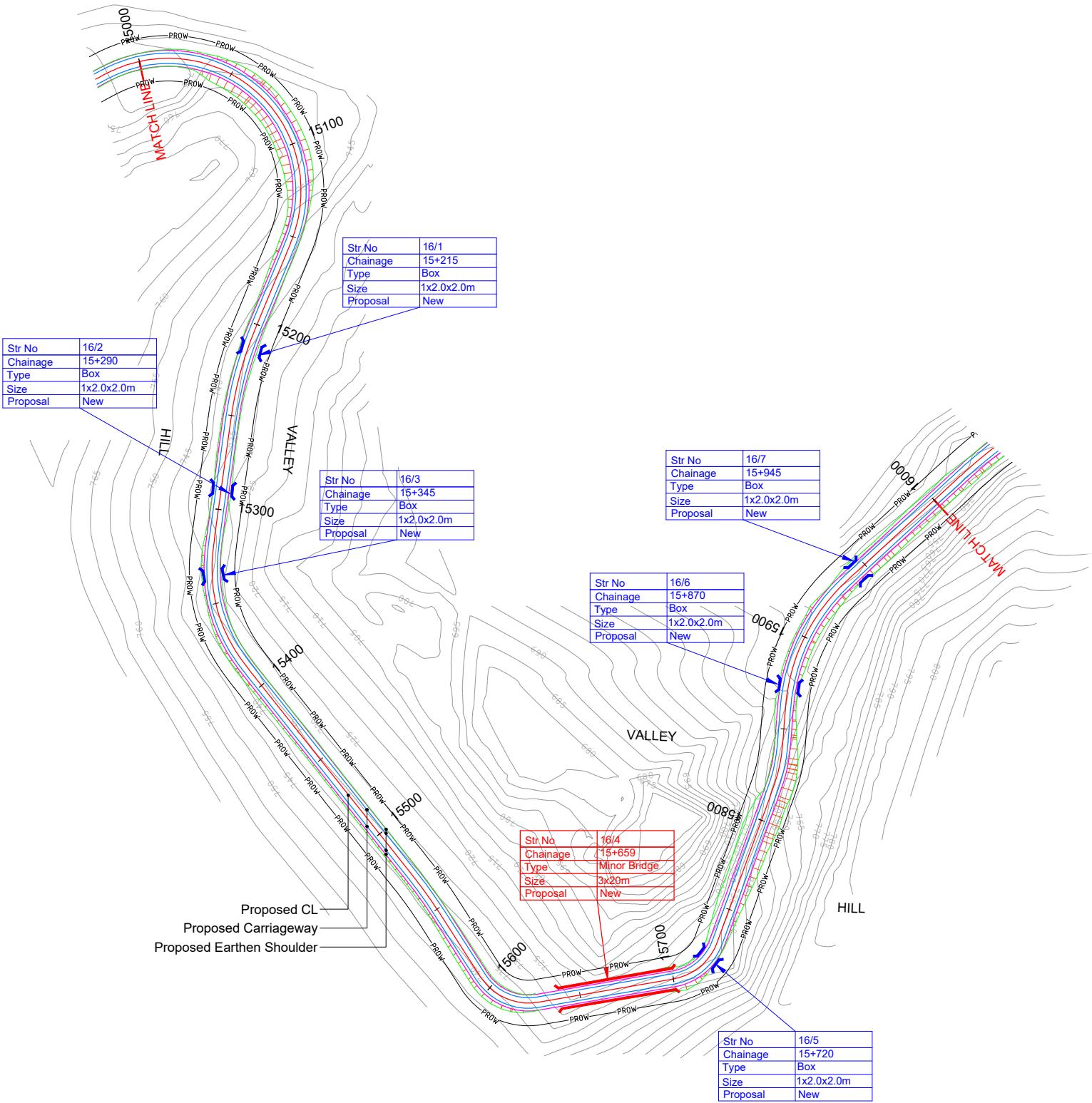
DATUM = 720

Proposed Road Levels	746.954	737.915	742.493	740.541
Ground Levels	747.056	738.054	742.595	740.474
Ground Levels @6m Left	747.172	738.198	742.698	740.380
Ground Levels @6m Right	747.133	737.545	742.452	740.259
Vertical Alignment	G =-1.631% L =112.547 R =5187.238 L =150.000 G =1.260% L =190.425 R =1616.544 L =60.000 G =4.972% L =90.783 R =1117.816 L =60.000 G =-0.396% L =83.544 R =7604.961 L =220.000			
Horizontal Alignment	L: 25.000 R: 125.000 L: 132.237 L: 25.000 L =22.931 R: 100.000 L: 15.241 L =25.000 L =35.000 R: 70.000 L: 57.955 L =15.000 L =171.754 L: 15.000 R: 125.000 L: 21.514 L =0.127 L =5.000 L =5.000 L =5.000 R: 125.000 L: 47.390 L: 15.000 L =7.388 L =15.000 R: 50.000 L: 42.630 L: 15.000 L =14.300 L =17.621 L =3.909 R: 30.000 L: 15.000 R: 80.000 L: 36.250 L =15.000 L =41.257 L: 15.000			
Chainage	14000.000	14010.000	14020.000	14030.000

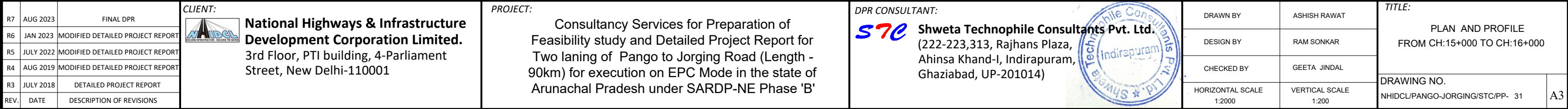
LEGEND

PLAN:-
PROP.CENTER LINE
PROP.CARRIAGEWAY EDGE
PROP.EARTHEN SHOULDER
TOE LINE
PROP.RIGHT OF WAY
CULVERT
MAJOR/MINOR BRIDGE

PROFILE:-
PROP.ROAD LEVEL
EXISTING GROUND LEVEL
GROUND LEVEL @6M LEFT
GROUND LEVEL @6M RIGHT



HIP NO. 115 AT CH. 15066.348			HIP NO. 116 AT CH. 15226.8			HIP NO. 117 AT CH. 15353.423			HIP NO. 118 AT CH. 15540.083			HIP NO. 119 AT CH. 15610.025			HIP NO. 120 AT CH. 15715.787			HIP NO. 121 AT CH. 15830.031			HIP NO. 122 AT CH. 15899.331		
X = 667085.049 Y = 3192022.05			X = 667034.155 Y = 3192245.312			X = 666980.263 Y = 3192360.54			X = 666806.02 Y = 3192428.697			X = 666741.09 Y = 3192460.444			X = 666658.275 Y = 3192388.464			X = 666681.755 Y = 3192275.009			X = 666710.351 Y = 3192210.906		
R (m)	70	Ls (m)	15	R (m)	200	Ls (m)		R (m)	80	Ls (m)	20	R (m)	250	Ls (m)		R (m)	30	Ls (m)		R (m)	70	Ls (m)	15
Dc(deg)	129.2675	S(m)	0.13	Dc(deg)	14.6471	S(m)		Dc(deg)	32.0434	S(m)	0.21	Dc(deg)	5.8242	S(m)		Dc(deg)	67.0513	S(m)		Dc(deg)	3.2487	S(m)	0.13
Lc(m)	157.93	Ts(deg)	6.1388	Lc(m)	51.13	Ts(deg)		Lc(m)	44.74	Ts(deg)	7.162	Lc(m)	25.41	Ts(deg)		Lc(m)	35.11	Ts(deg)		Lc(m)	3.97	Ts(deg)	6.1388
Ts(m)	208.573	Δ(deg)	141.5451	Ts(m)	25.704	Δ(deg)	14.6471	Ts(m)	44.346	Δ(deg)	46.3673	Ts(m)	12.717	Δ(deg)	5.8242	Ts(m)	19.876	Δ(deg)	67.0513	Ts(m)	17.435	Δ(deg)	15.5263
Es(m)	142.955	e(%)	10.00%	Es(m)	1.645	e(%)	5.56%	Es(m)	7.256	e(%)	8.89%	Es(m)	0.323	e(%)	4.44%	Es(m)	5.987	e(%)	10.00%	Es(m)	0.779	e(%)	10.00%
V(km/hr)	40	We(m)	0.9	V(km/hr)	50	We(m)	0.6	V(km/hr)	40	We(m)	0.9	V(km/hr)	50	We(m)	0.6	V(km/hr)	30	We(m)	1.5	V(km/hr)	40	We(m)	0.9
CurveType	RIGHT			CurveType	LEFT			CurveType	LEFT			CurveType	RIGHT			CurveType	LEFT			CurveType	LEFT		



LEGEND

PLAN:-

PROP.CENTER LINE

PROP.CARRIAGEWAY EDGE

PROP.EARTHEN SHOULDER

TOE LINE

PROP.RIGHT OF WAY

CULVERT

MAJOR/MINOR BRIDGE

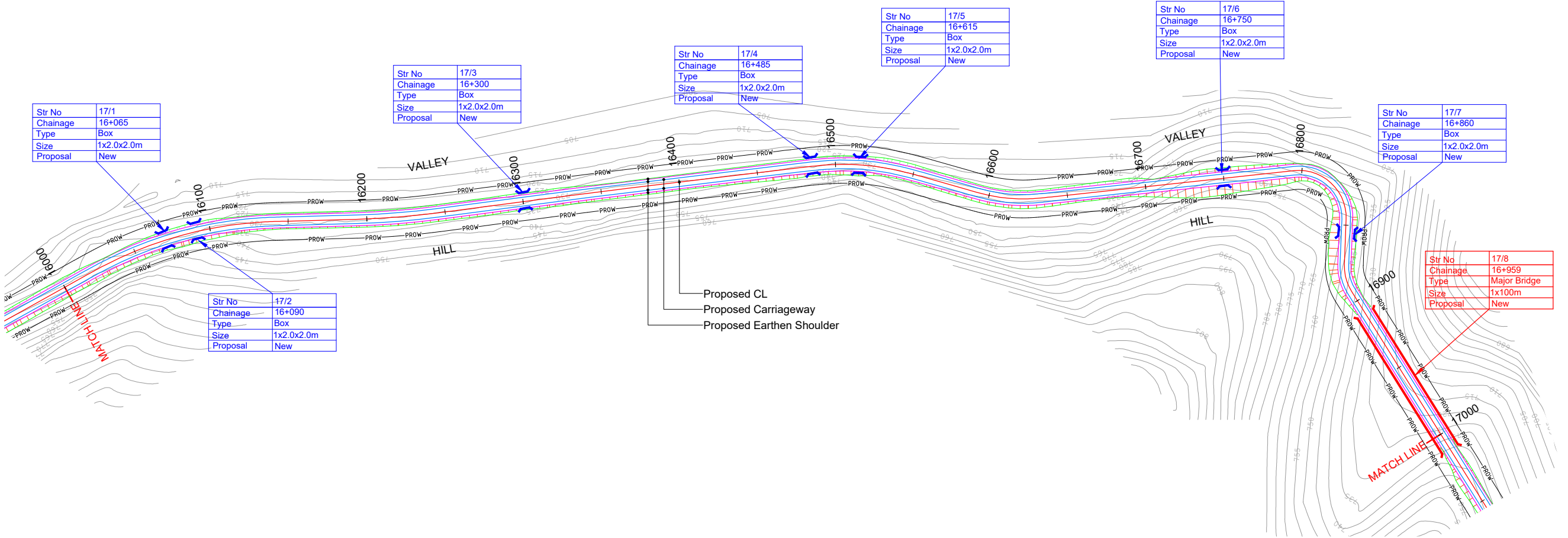
PROFILE:-

PROP.ROAD LEVEL

EXISTING GROUND LEVEL

GROUND LEVEL @6M LEFT

GROUND LEVEL @6M RIGHT



HIP NO. 123 AT CH. 16081.311				HIP NO. 124 AT CH. 16219.464				HIP NO. 125 AT CH. 16343.33				HIP NO. 126 AT CH. 16517.582				HIP NO. 127 AT CH. 16612.983				HIP NO. 128 AT CH. 16820.626				HIP NO. 129 AT CH. 16884.016			
X = 666660.384		Y = 3192034.25		X = 666565.695		Y = 3191932.55		X = 666489.869		Y = 3191834.576		X = 666379.824		Y = 3191699.517		X = 666298.108		Y = 3191650.224		X = 666160.649		Y = 3191482.757		X = 666111.515		Y = 3191536.29	
R (m)	250	Ls (m)	15	R (m)	500	Ls (m)		R (m)	5000	Ls (m)		R (m)	150	Ls (m)	30	R (m)	100	Ls (m)	15	R (m)	30	Ls (m)		R (m)	30	Ls (m)	
Dc(deg)	24.1559	S(m)	0.04	Dc(deg)	5.9413	S(m)		Dc(deg)	0.6174	S(m)		Dc(deg)	11.3381	S(m)	0.25	Dc(deg)	13.5126	S(m)	0.09	Dc(deg)	98.4074	S(m)		Dc(deg)	34.2342	S(m)	
Lc(m)	105.4	Ts(deg)	1.7189	Lc(m)	51.85	Ts(deg)		Lc(m)	53.88	Ts(deg)		Lc(m)	29.68	Ts(deg)	5.7296	Lc(m)	23.58	Ts(deg)	4.2972	Lc(m)	51.53	Ts(deg)		Lc(m)	17.92	Ts(deg)	
Ts(m)	68.901	Δ(deg)	27.5936	Ts(m)	25.947	Δ(deg)	5.9413	Ts(m)	26.938	Δ(deg)	0.6174	Ts(m)	45.287	Δ(deg)	22.7972	Ts(m)	27.051	Δ(deg)	22.107	Ts(m)	34.76	Δ(deg)	98.4074	Ts(m)	9.239	Δ(deg)	34.2342
Es(m)	7.469	e(%)	4.44%	Es(m)	0.673	e(%)	-2.50%	Es(m)	0.073	e(%)	-2.50%	Es(m)	3.273	e(%)	7.41%	Es(m)	1.982	e(%)	10.00%	Es(m)	15.916	e(%)	10.00%	Es(m)	1.39	e(%)	10.00%
V(km/hr)	50	We(m)	0.6	V(km/hr)	50	We(m)	Nil	V(km/hr)	50	We(m)	Nil	V(km/hr)	50	We(m)	0.6	V(km/hr)	50	We(m)	0.9	V(km/hr)	30	We(m)	1.5	V(km/hr)	30	We(m)	1.5
CurveType	RIGHT			CurveType	LEFT			CurveType	RIGHT			CurveType	RIGHT			CurveType	LEFT			CurveType	RIGHT			CurveType	LEFT		

LEGEND

PLAN:-

PROP.CENTER LINE

PROP.CARRIAGEWAY EDGE

PROP.EARTHEN SHOULDER

TOE LINE

PROP.RIGHT OF WAY

CULVERT

MAJOR/MINOR BRIDGE

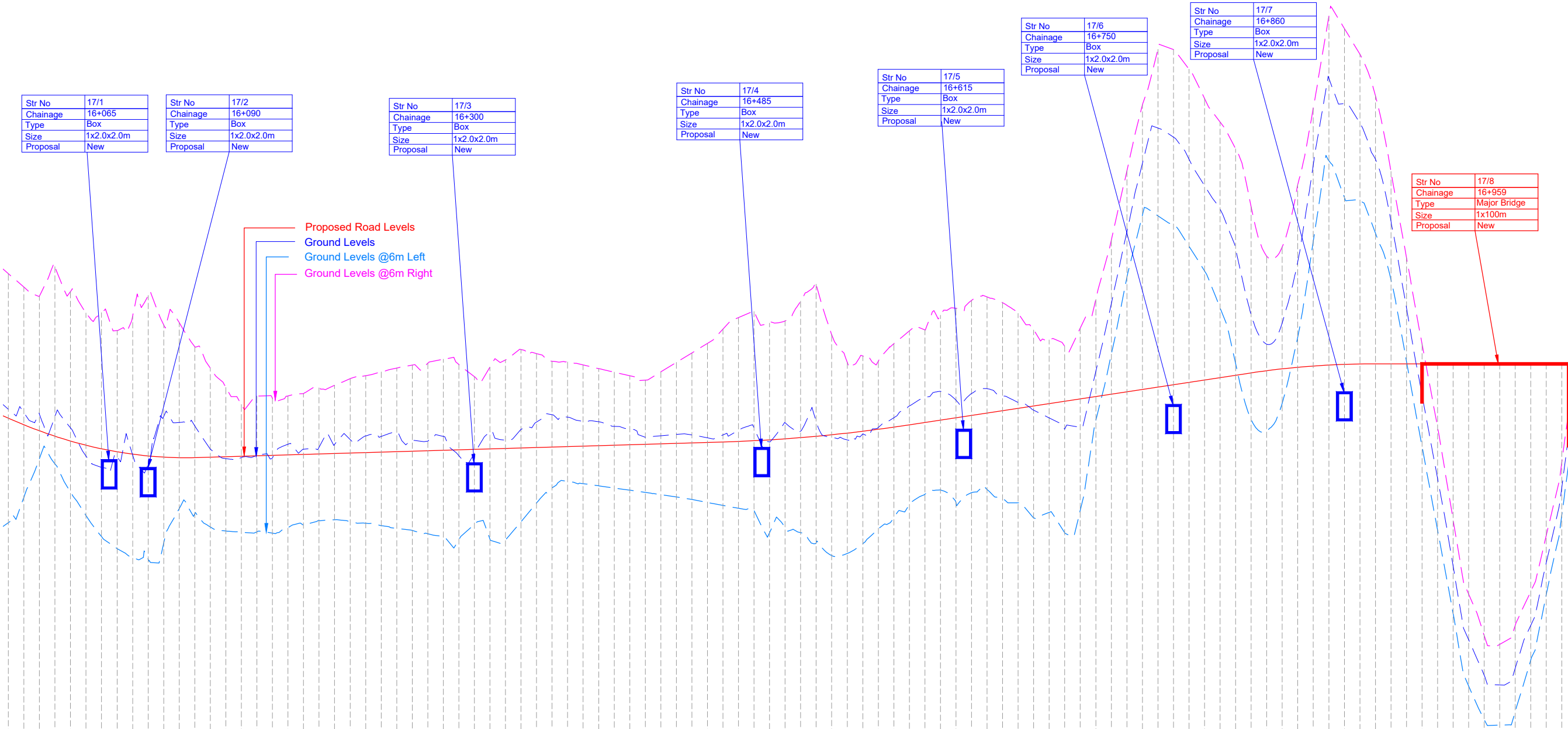
PROFILE:-

PROP.ROAD LEVEL

EXISTING GROUND LEVEL

GROUND LEVEL @6M LEFT

GROUND LEVEL @6M RIGHT



Proposed Road Levels	731.207 731.783 730.780 730.393 730.044 729.734 729.464 729.233 729.040 728.887 728.773 728.698 728.662 728.665 728.694 728.724 728.753 728.783 728.813 728.842 728.872 728.902 728.931 728.961 728.991 729.020 729.050 729.080 729.109 729.139 729.168 729.198 729.228 729.257 729.287 729.317 729.346 729.376 729.406 729.435 729.465 729.494 729.524 729.554 729.583 729.613 729.643 729.672 729.708 729.753 729.809 729.875 730.038 730.135 730.242 730.359 730.486 730.624 730.772 730.924 731.076 731.228 731.381 731.533 731.685 731.837 731.989 732.142 732.294 732.446 732.598 732.750 732.903 733.055 733.207 733.359 733.512 733.664 733.816 733.968 734.120 734.272 734.424 734.576 734.728 734.880 735.032 735.184 735.336 735.488 735.640 735.792 735.944 736.096 736.248 736.400 736.552 736.704 736.856 737.008 737.160 737.312 737.464 737.616 737.768 737.920 738.072 738.224 738.376 738.528 738.680 738.832 738.984 739.136 739.288 739.440 739.592 739.744 739.896 740.048 740.200 740.352 740.504 740.656 740.808 740.960 741.112 741.264 741.416 741.568 741.720 741.872 742.024 742.176 742.328 742.480 742.632 742.784 742.936 743.088 743.240 743.392 743.544 743.696 743.848 743.999 744.151 744.303 744.455 744.607 744.759 744.911 745.063 745.215 745.367 745.519 745.671 745.823 745.975 746.127 746.279 746.431 746.583 746.735 746.887 747.039 747.191 747.343 747.495 747.647 747.799 747.951 748.103 748.255 748.407 748.559 748.711 748.863 749.015 749.167 749.319 749.471 749.623 749.775 749.927 750.079 750.231 750.383 750.535 750.687 750.839 750.991 751.143 751.295 751.447 751.599 751.751 751.903 752.055 752.207 752.359 752.511 752.663 752.815 752.967 753.119 753.271 753.423 753.575 753.727 753.879 754.031 754.183 754.335 754.487 754.639 754.791 754.943 755.095 755.247 755.399 755.551 755.703 755.855 756.007 756.159 756.311 756.463 756.615 756.767 756.919 757.071 757.223 757.375 757.527 757.679 757.831 757.983 758.135 758.287 758.439 758.591 758.743 758.895 759.047 759.199 759.351 759.503 759.655 759.807 759.959 760.111 760.263 760.415 760.567 760.719 760.871 761.023 761.175 761.327 761.479 761.631 761.783 761.935 762.087 762.239 762.391 762.543 762.695 762.847 762.999 763.151 763.303 763.455 763.607 763.759 763.911 764.063 764.215 764.367 764.519 764.671 764.823 764.975 765.127 765.279 765.431 765.583 765.735 765.887 766.039 766.191 766.343 766.495 766.647 766.799 766.951 767.103 767.255 767.407 767.559 767.711 767.863 768.015 768.167 768.319 768.471 768.623 768.775 768.927 769.079 769.231 769.383 769.535 769.687 769.839 769.991 770.143 770.295 770.447 770.599 770.751 770.903 771.055 771.207 771.359 771.511 771.663 771.815 771.967 772.119 772.271 772.423 772.575 772.727 772.879 773.031 773.183 773.335 773.487 773.639 773.791 773.943 774.095 774.247 774.399 774.551 774.703 774.855 775.007 775.159 775.311 775.463 775.615 775.767 775.919 776.071 776.223 776.375 776.527 776.679 776.831 776.983 777.135 777.287 777.439 777.591 777.743 777.895 778.047 778.199 778.351 778.503 778.655 778.807 778.959 779.111 779.263 779.415 779.567 779.719 779.871 780.023 780.175 780.327 780.479 780.631 780.783 780.935 781.087 781.239 781.391 781.543 781.695 781.847 781.999 782.151 782.303 782.455 782.607 782.759 782.911 783.063 783.215 783.367 783.519 783.671 783.823 783.975 784.127 784.279 784.431 784.583 784.735 784.887 785.039 785.191 785.343 785.495 785.647 785.799 785.951 786.103 786.255 786.407 786.559 786.711 786.863 787.015 787.167 787.319 787.471 787.623 787.775 787.927 788.079 788.231 788.383 788.535 788.687 788.839 788.991 789.143 789.295 789.447 789.599 789.751 789.903 790.055 790.207 790.359 790.511 790.663 790.815 790.967 791.119 791.271 791.423 791.575 791.727 791.879 792.031 792.183 792.335 792.487 792.639 792.791 792.943 793.095 793.247 793.399 793.551 793.703 793.855 794.007 794.159 794.311 794.463 794.615 794.767 794.919 795.071 795.223 795.375 795.527 795.679 795.831 795.983 796.135 796.287 796.439 796.591 796.743 796.895 797.047 797.199 797.351 797.503 797.655 797.807 797.959 798.111 798.263 798.415 798.567 798.719 798.871 799.023 799.175 799.327 799.479 799.631 799.783 799.935 800.087 800.239 800.391 800.543 800.695 800.847 800.999 801.151 801.303 801.455 801.607 801.759 801.911 802.063 802.215 802.367 802.519 802.671 802.823 802.975 803.127 803.279 803.431 803.583 803.735 803.887 804.039 804.191 804.343 804.495 804.647 804.799 804.951 805.103 805.255 805.407 805.559 805.711 805.863 806.015 806.167 806.319 806.471 806.623 806.775 806.927 807.079 807.231 807.383 807.535 807.687 807.839 807.991 808.143 808.295 808.447 808.599 808.751 808.903 809.055 809.207 809.359 809.511 809.663 809.815 809.967 810.119 810.271 810.423 810.575 810.727 810.879 811.031 811.183 811.335 811.487 811.639 811.791 811.943 812.095 812.247 812.399 812.551 812.703 812.855 813.007 813.159 813.311 813.463 813.615 813.767 813.919 814.071 814.223 814.375 814.527 814.679 814.831 814.983 815.135 815.287 815.439 815.591 815.743 815.895 816.047 816.199 816.351 816.503 816.655 816.807 816.959 817.111 817.263 817.415 817.567 817.719 817.871 818.023 818.175 818.327 818.479 818.631 818.783 818.935 819.087 819.239 819.391 819.543 819.695 819.847 819.999 820.151 820.303 820.455 820.607 820.759 820.911 821.063 821.215 821.367 821.519 821.671 821.823 821.975 822.127 822.279 822.431 822.583 822.735 822.887 823.039 823.191 823.343 823.495 823.647 823.799 823.951 824.103 824.255 824.407 824.559 824.711 824.863 825.015 825.167 825.319 825.471 825.623 825.775 825.927 826.079 826.231 826.383 826.535 826.687 826.839 826.991 827.143 827.295 827.447 827.599 827.751 827.903 828.055 828.207 828.359 828.511 828.663 828.815 828.967 829.119 829.271 829.423 829.575 829.727 829.879 830.031 830.183 830.335 830.487 830.639 830.791 830.943 831.095 831.247 831.399 831.551 831.703 831.855 832.007 832.159 832.311 832.463 832.615 832.767 832.919 833.071 833.223 833.375 833.527 833.679 833.831 833.983 834.135 834.287 834.439 834.591 834.743 834.895 835.047 835.199 835.351 835.503 835.655 835.807 835.959 836.111 836.263 836.415 836.567 836.719 836.871 837.023 837.175 837.327 837.479 837.631 837.783 837.935 838.087 838.239 838.391 838.543 838.695 838.847 838.999 839.151 839.303 839.455 839.607 839.759 839.911 840.063 840.215 840.367 840.519 840.671 840.823 840.975 841.127 841.279 841.431 841.583 841.735 841.887 842.039 842.191 842.343 842.495 842.647 842.799 842.951 843.103 843.255 843.407 843.559 843.711 843.863 844.015 844.167 844.319 844.471 844.623 844.775 844.927 845.079 845.231 845.383 845.535 845.687 845.839 845.991 846.143 846.295 846.447 846.599 846.751 846.903 847.055 847.207 847.359 847.511 847.663 847.815 847.967 848.119 848.271 848.423 848.575 848.727 848.879 849.031 849.183 849.335 849.487 849.639 849.791 849.943 850.095 850.247 850.399 850.551 850.703 850.855 851.007 851.159 851.311 851.463 851.615 851.767 851.919 852.071 852.223 852.375 852.527 852.679 852.831 852.983 853.135 853.287 853.439 853.591 853.743 853.895 854.047 854.199 854.351 854.503 854.655 854.807 854.959 855.111 855.263 855.415 855.567 855.719 855.871 856.023 856.175 856.327 856.479 856.631 856.783 856.935 857.087 857.239 857.391 857.543 857.695 857.847 857.999 858.151 858.303 858.455 858.607 858.759 858.911 859.063 859.215 859.367 859.519 859.671 859.823 859.975 860.127 860.279 860.431 860.583 860.735 860.887 861.039 861.191 861.343 861.495 861.647 861.799 861.951 862.103 862.255 862.407 862.559 862.711 862.863 863.015 863.167 863.319 863.471 863.623 863.775 863.927 864.079 864.231 864.383 864.535 864.687 864.839 864.991 865.143 865.295 865.447 865.599 865.751 865.903 866.055 866.207 866.359 866.511 866.663 866.815 866.967 867.119 867.271 867.423 867.575 867.727 867.879 868.031 868.183 868.335 868.487 868.639 868.791 868.943 869.095 869.247 869.399 869.551 869.703 869.855 869.999 870.151 870.303 870.455 870.607 870.759 870.911 871.063 871.215 871.367 871.519 871.671 871.823 871.975 872.127 872.279 872.431 872.583 872.735 872.887 873.039 873.191 873.343 873.495 873.647 873.799 873.951 874.103 874.255 874.407 874.559 874.711 874.863 875.015 875.167 875.319 875.471 875.623 875.775 875.927 876.079 876.231 876.383 876.535 876.687 876.839 876.991 877.143 877.295 877.447 877.599 877.751 877.903 878.055 878.207 878.359 878.511 878.663 878.815 878.967 879.119 879.271 879.423 879.575 879.727 879.879 880.031 880.183 880.335 880.487 880.639 880.791 880.943 881.095 881.247 881.399 881.551 881.703 881.855 881.999 882.151 882.303 882.455 882.607 882.759 882.911 883.063 883.215 883.367 883.519 883.671 883.823 883.975 884.127 884.279 884.431 884.583 884.735 884.887 885.039 885.191 885.343 885.495 885.647 885.799 885.951 886.103 886.255 886.407 886.559 886.711 886.863 887.015 887.167 887.319 887.471 887.623 887.775 887.927 888.079 888.231 888.383 888.535 888.687 888.839 888.991 889.143 889.295 889.447 889.599 889.751 889.903 890.055 890.207 890.359 890.511 890.663 890.815 890.967 891.119 891.271 891.423 891.575 891.727 891.879 892.031 892.183 892.335 892.487 892.639 892.791 892.943 893.095 893.247 893.399 893.551 893.703 893.855 894.007 894.159 894.311 894.463 894.615 894.767 894.919 895.071 895.223 895.375 895.527 895.679 895.831 895.983 896.135 896.287 896.439 896.591 896.743 896.895 897.047 897.199 897.351 897.503 897.655 897.807 897.959 898.111 898.263 898.415 898.567 898.719 898.871 899.023 899.175 899.327 899.479 899.631 899.783 899.935 900.087 900.239 900.391 900.543 900.695 900.847 900.999 901.151 901.303 901.455 901.607 901.759 901.911 902.063 902.215 902.367 902.519 902.671 902.823 902.975 903.127 903.279 903.431 903.583 903.735 903.887 904.039 904.191 904.343 904.495 904.647 904.799 904.951 905.103 905.255 905.407 905.559 905.711 905.863 906.015 906.167 906.319 906.471 906.623 906.775 906.927 907.079 907.231 907.383 907.535 907.687 907.839 907.991 908.143 908.295 908.447 908.599 908.751 908.903 909.055 909.207 909.359 909.511 909.663 909.815 909.967 910.119 910.271 910.423 910.575 910.727 910.879 911.031 911.183 911.335 911.487 911.639 911.791 911.943 912.095 912.247 912.399 912.551 912.703 912.855 913.007 913.159 913.311 913.463 913.615 913.767 913.919 914.071 914.223 914.375 914.527 914.679 914.831 914.983 915.135 915.287 915.439 915.591 915.743 915.895 916.047 916.199 916.351 916.503 916.655 916.807 916.959 917.111 917.263 917.415 917.567 917.719 917.871 918.023 918.175 918.327 918.479 918.631 918.783 918.935 919.087 919.239 919.391 919.543 919.695 919.847 919.999 920.151 920.303 920.455 920.607 920.759 920.911 921.063 921.215 921.367 921.519 921.671 921.823 921.975 922.127 922.279 922.431 922.583 922.735 922.887 923.039 923.191 923.343 923.495 923.647 923.799 92
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LEGEND

PLAN:-

PROP.CENTER LINE

PROP.CARRIAGEWAY EDGE

PROP.EARTHEN SHOULDER

TOE LINE

PROP.RIGHT OF WAY

CULVERT

MAJOR/MINOR BRIDGE

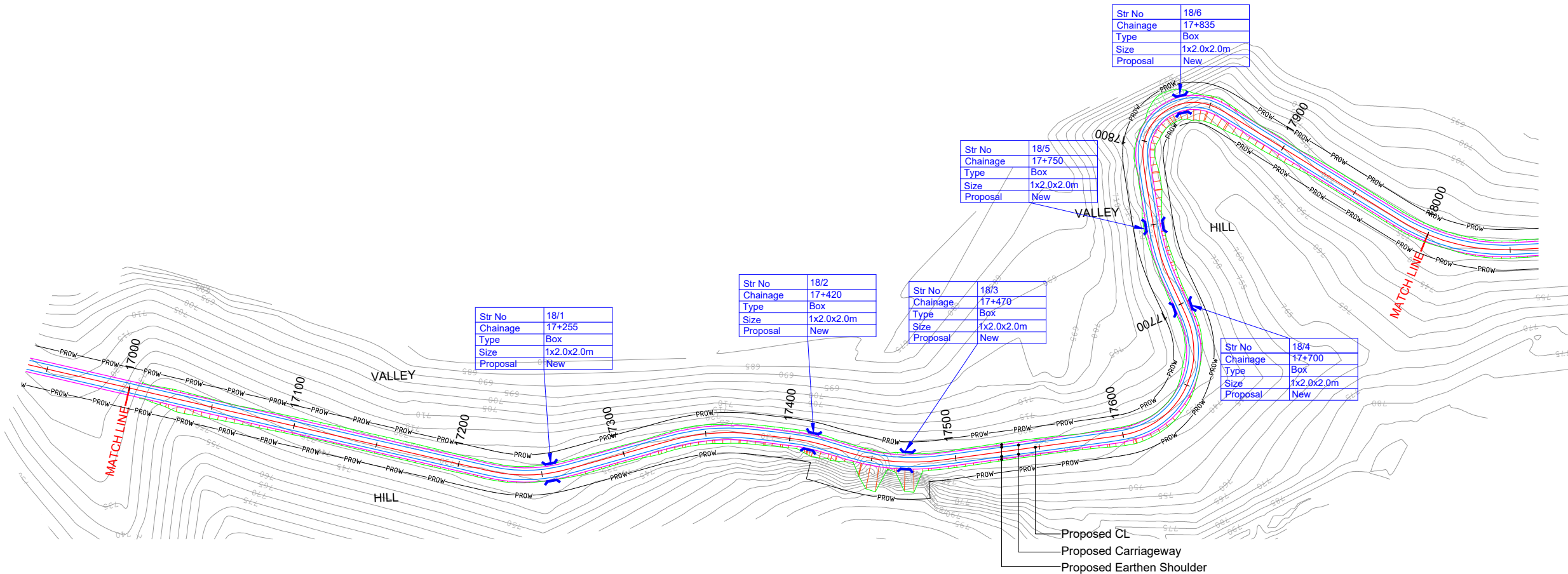
PROFILE:-

PROP.ROAD LEVEL

EXISTING GROUND LEVEL

GROUND LEVEL @6M LEFT

GROUND LEVEL @6M RIGHT



HIP NO. 130 AT CH. 17242.399				HIP NO. 131 AT CH. 17353.742				HIP NO. 132 AT CH. 17411.579				HIP NO. 133 AT CH. 17463.99				HIP NO. 134 AT CH. 17645.451				HIP NO. 135 AT CH. 17732.643				HIP NO. 136 AT CH. 17822.348			
X = 665761.901		Y = 3191616.692		X = 665653.603		Y = 3191590.038		X = 665596.046		Y = 3191596.358		X = 665545.289		Y = 3191609.976		X = 665356.249		Y = 3191578.084		X = 665388.276		Y = 3191485.86		X = 665393.855		Y = 3191386.716	
R (m)	90	Ls (m)	15	R (m)	125	Ls (m)	15	R (m)	90	Ls (m)	15	R (m)	125	Ls (m)	15	R (m)	50	Ls (m)	15	R (m)	125	Ls (m)	15	R (m)	30	Ls (m)	15
Dc(deg)	19.0375	S(m)	0.1	Dc(deg)	15.6349	S(m)	0.08	Dc(deg)	0.4189	S(m)	0.1	Dc(deg)	17.8039	S(m)	0.08	Dc(deg)	89.7206	S(m)	0.19	Dc(deg)	8.8657	S(m)	0.08	Dc(deg)	102.1087	S(m)	0.31
Lc(m)	29.9	Ts(deg)	4.7746	Lc(m)	34.11	Ts(deg)	3.4377	Lc(m)	0.66	Ts(deg)	4.7746	Lc(m)	38.84	Ts(deg)	3.4377	Lc(m)	78.3	Ts(deg)	8.5944	Lc(m)	19.34	Ts(deg)	3.4377	Lc(m)	53.46	Ts(deg)	14.3239
Ts(m)	30.453	Δ(deg)	28.5868	Ts(m)	32.391	Δ(deg)	22.5104	Ts(m)	15.356	Δ(deg)	9.9682	Ts(m)	34.862	Δ(deg)	24.6794	Ts(m)	75.21	Δ(deg)	106.9093	Ts(m)	24.79	Δ(deg)	15.7412	Ts(m)	73.621	Δ(deg)	130.7566
Es(m)	2.978	e(%)	7.90%	Es(m)	2.533	e(%)	8.89%	Es(m)	0.442	e(%)	7.90%	Es(m)	3.038	e(%)	8.89%	Es(m)	34.288	e(%)	10.00%	Es(m)	1.269	e(%)	8.89%	Es(m)	42.751	e(%)	10.00%
V(km/hr)	40	We(m)	0.9	V(km/hr)	50	We(m)	0.6	V(km/hr)	40	We(m)	0.9	V(km/hr)	50	We(m)	0.6	V(km/hr)	40	We(m)	1.2	V(km/hr)	50	We(m)	0.6	V(km/hr)	30	We(m)	1.5
CurveType	LEFT			CurveType	RIGHT			CurveType	RIGHT			CurveType	LEFT			CurveType	LEFT			CurveType	RIGHT			CurveType	RIGHT		

LEGEND

PLAN:-

PROP.CENTER LINE

PROP.CARRIAGEWAY EDGE

PROP.EARTHEN SHOULDER

TOE LINE

PROP.RIGHT OF WAY

CULVERT

MAJOR/MINOR BRIDGE

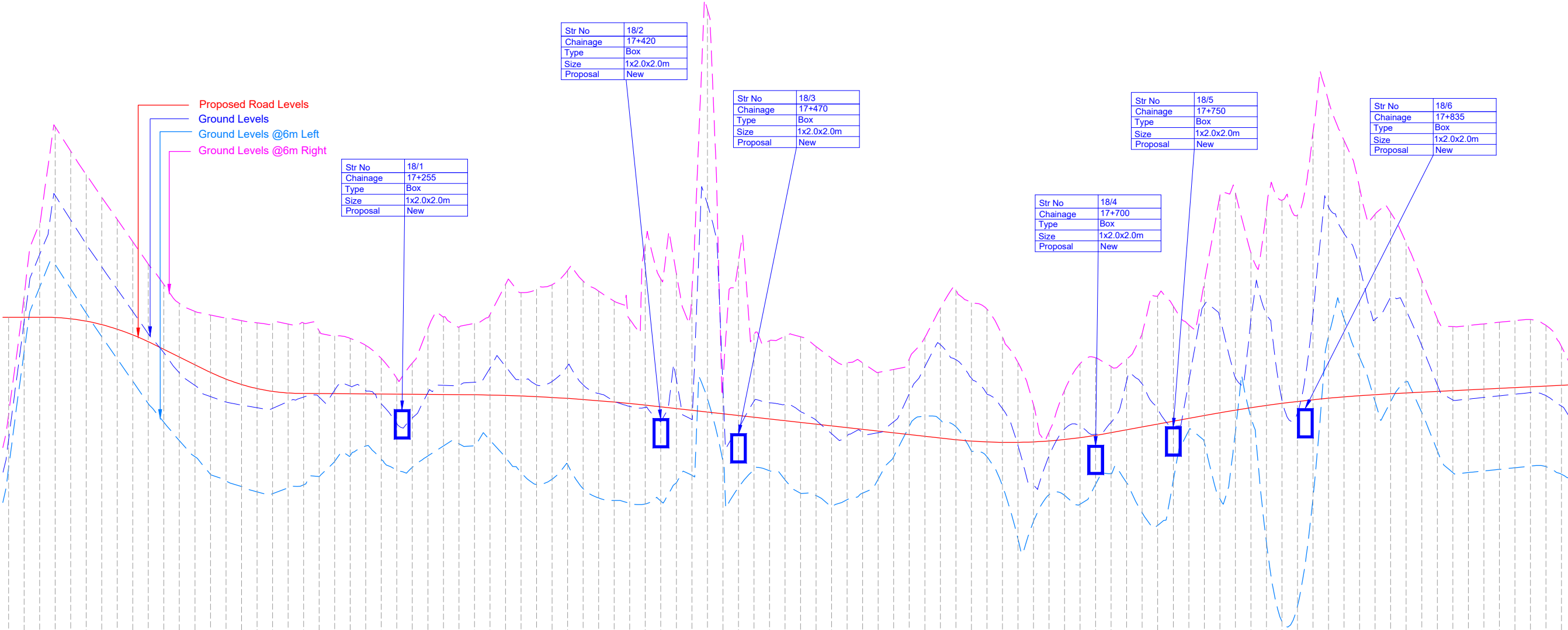
PROFILE:-

PROP.ROAD LEVEL

EXISTING GROUND LEVEL

GROUND LEVEL @6M LEFT

GROUND LEVEL @6M RIGHT



Str No	18/1
Chainage	17+255
Type	Box
Size	1x2.0x2.0m
Proposal	New

Str No	18/2
Chainage	17+420
Type	Box
Size	1x2.0x2.0m
Proposal	New

Str No	18/3
Chainage	17+470
Type	Box
Size	1x2.0x2.0m
Proposal	New

Str No	18/4
Chainage	17+700
Type	Box
Size	1x2.0x2.0m
Proposal	New

Str No	18/5
Chainage	17+750
Type	Box
Size	1x2.0x2.0m
Proposal	New

Str No	18/6
Chainage	17+835
Type	Box
Size	1x2.0x2.0m
Proposal	New

DATUM = 710

Proposed Road Levels				728.419	724.982	726.811	734.700
Ground Levels				736.067	732.442	734.378	734.700
Ground Levels @6m Left				740.740	736.635	738.732	734.700
Ground Levels @6m Right				746.970	738.108	742.540	734.684
Vertical Alignment				745.400	736.536	740.969	734.601
Horizontal Alignment				743.884	734.965	739.398	734.448
Chainage				742.433	733.450	737.942	734.223
				740.997	732.008	736.504	733.927
				739.561	730.572	735.067	733.561
				738.125	729.136	733.631	733.123
				736.803	727.941	732.428	732.631
				735.591	726.752	731.120	732.134
				735.078	725.719	730.311	731.638
				734.846	724.577	729.593	731.146
				734.654	724.158	729.241	730.718
				734.480	723.793	729.036	730.371
				734.338	723.453	728.872	730.106
				734.315	723.333	728.830	729.922
				734.259	723.716	729.269	729.820
				734.325	723.905	729.559	729.795
				733.825	724.444	729.556	729.787
				733.493	725.411	730.012	729.779
				733.340	725.790	730.258	729.771
				732.889	726.402	729.970	729.764
				732.050	725.560	729.109	729.756
				730.770	724.839	727.864	729.748
				731.754	725.030	728.216	729.740
				733.975	725.764	729.843	729.733
				734.714	726.410	730.314	729.725
				734.064	726.556	730.285	729.717
				734.298	726.419	730.518	729.707
				734.886	726.786	731.424	729.690
				736.808	725.673	731.536	729.663
				736.285	724.695	730.678	729.628
				736.507	723.937	730.337	729.585
				736.788	724.261	730.564	729.532
				737.720	725.205	731.558	729.471
				737.026	723.655	730.342	729.402
				736.377	723.054	729.779	729.324
				735.731	722.893	729.278	729.237
				734.561	722.715	728.954	729.141
				739.410	722.674	728.895	729.037
				737.169	722.858	727.988	728.926
				737.528	724.037	730.697	728.815
				736.334	724.515	728.110	728.704
				754.521	729.449	742.002	728.592
				730.561	725.453	730.227	728.481
				738.274	723.736	727.544	728.369
				733.584	724.980	729.281	728.258
				733.190	724.808	729.191	728.147
				733.477	724.220	729.111	728.035
				733.444	723.370	728.625	727.924
				732.806	723.212	728.063	727.812
				732.064	722.498	727.193	727.701
				731.767	722.948	727.066	727.590
				731.760	723.375	727.285	727.478
				731.150	724.269	727.261	727.367
				731.340	725.734	727.973	727.256
				732.005	727.684	729.782	727.144
				733.388	728.319	731.501	727.033
				735.285	728.091	732.930	726.921
				736.463	727.655	731.977	726.812
				735.627	726.083	730.782	726.725
				735.217	725.718	729.756	726.667
				733.448	723.834	728.815	726.639
				731.790	720.412	726.421	726.641
				729.069	721.546	723.868	726.672
				727.313	723.276	725.765	726.733
				729.984	723.223	727.495	726.823
				731.714	722.658	727.698	726.943
				732.090	723.935	727.166	727.092
				731.526	724.618	727.938	727.269
				732.004	724.037	730.604	727.453
				733.674	722.097	730.400	727.637
				736.083	721.299	728.756	727.821
				735.401	724.181	727.709	728.004
				734.208	727.399	730.552	728.188
				736.931	726.655	735.498	728.372
				742.490	723.004	734.676	728.550
				742.706	727.337	730.805	728.717
				738.856	728.249	734.568	728.872
				741.623	720.158	734.899	729.017
				742.245	715.101	729.370	729.150
				741.292	716.106	728.543	729.272
				746.619	723.095	734.908	729.383
				748.621	733.515	741.801	729.482
				746.081	734.596	740.092	729.571
				743.012	732.105	737.978	729.648
				741.347	729.239	734.567	729.714
				741.439	729.257	736.011	729.769
				739.504	730.544	735.144	729.819
				737.098	728.558	732.859	729.869
				734.596	726.115	730.357	729.919
				734.097	724.692	729.377	729.969
				734.166	724.694	729.430	730.018
				734.270	724.798	729.534	730.068
				734.374	724.902	729.638	730.118
				734.479	725.007	729.743	730.168
				734.556	725.111	729.847	730.218
				734.174	725.081	729.654	730.267
				732.820	724.585	728.973	730.317

LEGEND

PLAN:-

PROP.CENTER LINE

PROP.CARRIAGEWAY EDGE

PROP.EARTHEN SHOULDER

TOE LINE

PROP.RIGHT OF WAY

CULVERT

MAJOR/MINOR BRIDGE

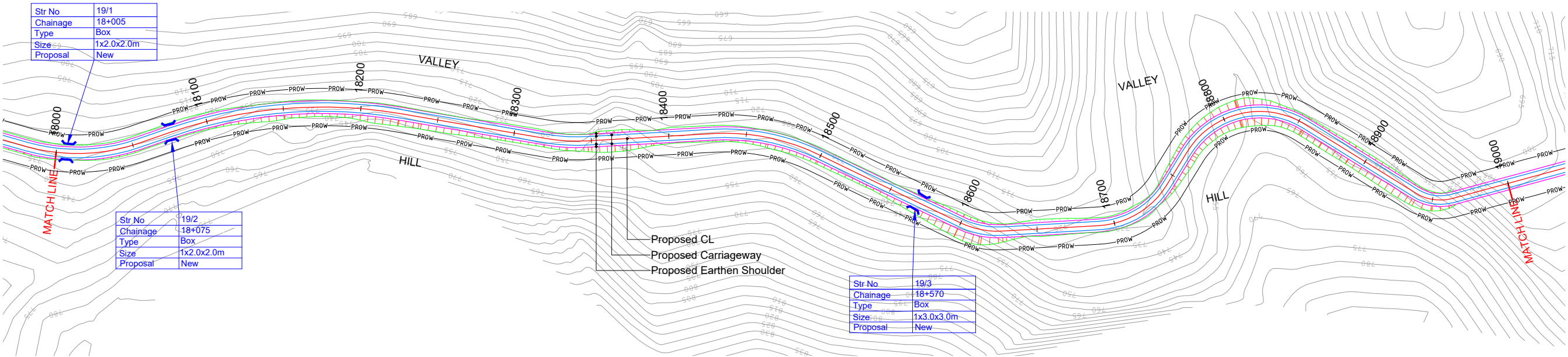
PROFILE:-

PROP.ROAD LEVEL

EXISTING GROUND LEVEL

GROUND LEVEL @6M LEFT

GROUND LEVEL @6M RIGHT



HIP NO. 137 AT CH. 18016.967					HIP NO. 138 AT CH. 18150.497					HIP NO. 139 AT CH. 18334.07					HIP NO. 140 AT CH. 18463.546					HIP NO. 141 AT CH. 18613.702					HIP NO. 142 AT CH. 18716.379					HIP NO. 143 AT CH. 18810.968					HIP NO. 144 AT CH. 18950.578				
X = 665214.578 Y = 3191486.524					X = 665078.445 Y = 3191479.877					X = 664911.731 Y = 3191560.607					X = 664784.688 Y = 3191589.616					X = 664672.112 Y = 3191690.615					X = 664569.509 Y = 3191714.027					X = 664489.057 Y = 3191640.762					X = 664387.174 Y = 3191753.989				
R (m)	120	Ls (m)			R (m)	300	Ls (m)			R (m)	120	Ls (m)			R (m)	140	Ls (m)			R (m)	55	Ls (m)			R (m)	55	Ls (m)			R (m)	55	Ls (m)			R (m)	30	Ls (m)		
Dc(deg)	34.8139	S(m)			Dc(deg)	28.6336	S(m)			Dc(deg)	12.9756	S(m)			Dc(deg)	29.035	S(m)			Dc(deg)	29.0438	S(m)			Dc(deg)	55.1769	S(m)			Dc(deg)	90.3419	S(m)			Dc(deg)	46.994	S(m)		
Lc(m)	72.91	Ts(deg)			Lc(m)	149.92	Ts(deg)			Lc(m)	27.18	Ts(deg)			Lc(m)	70.95	Ts(deg)			Lc(m)	27.88	Ts(deg)			Lc(m)	52.97	Ts(deg)			Lc(m)	86.72	Ts(deg)			Lc(m)	24.61	Ts(deg)		
Ts(m)	37.622	Δ(deg)	34.8139		Ts(m)	76.563	Δ(deg)	28.6336		Ts(m)	13.646	Δ(deg)	12.9756		Ts(m)	36.252	Δ(deg)	29.035		Ts(m)	14.246	Δ(deg)	29.0438		Ts(m)	28.739	Δ(deg)	55.1769		Ts(m)	55.329	Δ(deg)	90.3419		Ts(m)	13.043	Δ(deg)	46.994	
Es(m)	5.759	e(%)	9.26%		Es(m)	9.616	e(%)	3.70%		Es(m)	0.773	e(%)	9.26%		Es(m)	4.617	e(%)	7.94%		Es(m)	1.815	e(%)	10.00%		Es(m)	7.056	e(%)	10.00%		Es(m)	23.015	e(%)	10.00%		Es(m)	2.712	e(%)	10.00%	
V(km/hr)	50	We(m)	0.6		V(km/hr)	50	We(m)	0.6		V(km/hr)	50	We(m)	0.6		V(km/hr)	50	We(m)	0.6		V(km/hr)	40	We(m)	1.2		V(km/hr)	40	We(m)	1.2		V(km/hr)	40	We(m)	1.2		V(km/hr)	30	We(m)	1.5	
CurveType	LEFT				CurveType	RIGHT				CurveType	LEFT				CurveType	RIGHT				CurveType	LEFT				CurveType	LEFT				CurveType	RIGHT				CurveType	LEFT			

LEGEND

PLAN:-

PROP.CENTER LINE

PROP.CARRIAGEWAY EDGE

PROP.EARTHEN SHOULDER

TOE LINE

PROP.RIGHT OF WAY

CULVERT

MAJOR/MINOR BRIDGE

PROFILE:-

PROP.ROAD LEVEL

EXISTING GROUND LEVEL

GROUND LEVEL @6M LEFT

GROUND LEVEL @6M RIGHT



DATUM = 705

Proposed Road Levels	730.317 730.367 730.417 730.467 730.516 730.566 730.616 730.666 730.716 730.765 730.815 730.865 730.915 730.965 731.014 731.064 731.114 731.164 731.213 731.263 731.313 731.363 731.413 731.462 731.512 731.566 731.590 731.616 731.632 731.638 731.636 731.624 731.602 731.572 731.532 731.483 731.357 731.281 731.195 731.105 731.016 730.927 730.837 730.748 730.659 730.569 730.480 730.391 730.301 730.212 730.123 730.034 729.944 729.855 729.766 729.676 729.587 729.498 729.408 729.319 729.230 729.140 729.051 728.962 728.905 728.829 728.742 728.652 728.562 728.472 728.381 728.291 728.201 728.111 728.021 727.931 727.841 727.751 727.661 727.571 727.481 727.391 727.301 727.211 727.121 727.031 726.941 726.851 726.761 726.671 726.581 726.491 726.401 726.311 726.221 726.131 726.041 725.951 725.861 725.771 725.681 725.591 725.501 725.411 725.321 725.231 725.141 725.051 724.961 724.871 724.781 724.691 724.601 724.511 724.421 724.331 724.241 724.151 724.061 723.971 723.881 723.791 723.701 723.611 723.521 723.431 723.341 723.251 723.161 723.071 722.981 722.891 722.801 722.711 722.621 722.531 722.441 722.351 722.261 722.171 722.081 721.991 721.901 721.811 721.721 721.631 721.541 721.451 721.361 721.271 721.181 721.091 721.001 720.911 720.821 720.731 720.641 720.551 720.461 720.371 720.281 720.191 720.101 720.011 719.921 719.831 719.741 719.651 719.561 719.471 719.381 719.291 719.201 719.111 719.021 718.931 718.841 718.751 718.661 718.571 718.481 718.391 718.301 718.211 718.121 718.031 717.941 717.851 717.761 717.671 717.581 717.491 717.401 717.311 717.221 717.131 717.041 716.951 716.861 716.771 716.681 716.591 716.501 716.411 716.321 716.231 716.141 716.051 715.961 715.871 715.781 715.691 715.601 715.511 715.421 715.331 715.241 715.151 715.061 714.971 714.881 714.791 714.701 714.611 714.521 714.431 714.341 714.251 714.161 714.071 713.981 713.891 713.801 713.711 713.621 713.531 713.441 713.351 713.261 713.171 713.081 712.991 712.901 712.811 712.721 712.631 712.541 712.451 712.361 712.271 712.181 712.091 712.001 711.911 711.821 711.731 711.641 711.551 711.461 711.371 711.281 711.191 711.101 711.011 710.921 710.831 710.741 710.651 710.561 710.471 710.381 710.291 710.201 710.111 710.021 709.931 709.841 709.751 709.661 709.571 709.481 709.391 709.301 709.211 709.121 709.031 708.941 708.851 708.761 708.671 708.581 708.491 708.401 708.311 708.221 708.131 708.041 707.951 707.861 707.771 707.681 707.591 707.501 707.411 707.321 707.231 707.141 707.051 706.961 706.871 706.781 706.691 706.601 706.511 706.421 706.331 706.241 706.151 706.061 705.971 705.881 705.791 705.701 705.611 705.521 705.431 705.341 705.251 705.161 705.071 704.981 704.891 704.801 704.711 704.621 704.531 704.441 704.351 704.261 704.171 704.081 703.991 703.901 703.811 703.721 703.631 703.541 703.451 703.361 703.271 703.181 703.091 703.001 702.911 702.821 702.731 702.641 702.551 702.461 702.371 702.281 702.191 702.101 702.011 701.921 701.831 701.741 701.651 701.561 701.471 701.381 701.291 701.201 701.111 701.021 700.931 700.841 700.751 700.661 700.571 700.481 700.391 700.301 700.211 700.121 700.031 699.941 699.851 699.761 699.671 699.581 699.491 699.401 699.311 699.221 699.131 699.041 698.951 698.861 698.771 698.681 698.591 698.501 698.411 698.321 698.231 698.141 698.051 697.961 697.871 697.781 697.691 697.601 697.511 697.421 697.331 697.241 697.151 697.061 696.971 696.881 696.791 696.701 696.611 696.521 696.431 696.341 696.251 696.161 696.071 695.981 695.891 695.801 695.711 695.621 695.531 695.441 695.351 695.261 695.171 695.081 694.991 694.901 694.811 694.721 694.631 694.541 694.451 694.361 694.271 694.181 694.091 694.001 693.911 693.821 693.731 693.641 693.551 693.461 693.371 693.281 693.191 693.101 693.011 692.921 692.831 692.741 692.651 692.561 692.471 692.381 692.291 692.201 692.111 692.021 691.931 691.841 691.751 691.661 691.571 691.481 691.391 691.301 691.211 691.121 691.031 690.941 690.851 690.761 690.671 690.581 690.491 690.401 690.311 690.221 690.131 690.041 689.951 689.861 689.771 689.681 689.591 689.501 689.411 689.321 689.231 689.141 689.051 688.961 688.871 688.781 688.691 688.601 688.511 688.421 688.331 688.241 688.151 688.061 687.971 687.881 687.791 687.701 687.611 687.521 687.431 687.341 687.251 687.161 687.071 686.981 686.891 686.801 686.711 686.621 686.531 686.441 686.351 686.261 686.171 686.081 685.991 685.901 685.811 685.721 685.631 685.541 685.451 685.361 685.271 685.181 685.091 685.001 684.911 684.821 684.731 684.641 684.551 684.461 684.371 684.281 684.191 684.101 684.011 683.921 683.831 683.741 683.651 683.561 683.471 683.381 683.291 683.201 683.111 683.021 682.931 682.841 682.751 682.661 682.571 682.481 682.391 682.301 682.211 682.121 682.031 681.941 681.851 681.761 681.671 681.581 681.491 681.401 681.311 681.221 681.131 681.041 680.951 680.861 680.771 680.681 680.591 680.501 680.411 680.321 680.231 680.141 680.051 679.961 679.871 679.781 679.691 679.601 679.511 679.421 679.331 679.241 679.151 679.061 678.971 678.881 678.791 678.701 678.611 678.521 678.431 678.341 678.251 678.161 678.071 677.981 677.891 677.801 677.711 677.621 677.531 677.441 677.351 677.261 677.171 677.081 676.991 676.901 676.811 676.721 676.631 676.541 676.451 676.361 676.271 676.181 676.091 676.001 675.911 675.821 675.731 675.641 675.551 675.461 675.371 675.281 675.191 675.101 675.011 674.921 674.831 674.741 674.651 674.561 674.471 674.381 674.291 674.201 674.111 674.021 673.931 673.841 673.751 673.661 673.571 673.481 673.391 673.301 673.211 673.121 673.031 672.941 672.851 672.761 672.671 672.581 672.491 672.401 672.311 672.221 672.131 672.041 671.951 671.861 671.771 671.681 671.591 671.501 671.411 671.321 671.231 671.141 671.051 670.961 670.871 670.781 670.691 670.601 670.511 670.421 670.331 670.241 670.151 670.061 669.971 669.881 669.791 669.701 669.611 669.521 669.431 669.341 669.251 669.161 669.071 668.981 668.891 668.801 668.711 668.621 668.531 668.441 668.351 668.261 668.171 668.081 667.991 667.901 667.811 667.721 667.631 667.541 667.451 667.361 667.271 667.181 667.091 667.001 666.911 666.821 666.731 666.641 666.551 666.461 666.371 666.281 666.191 666.101 666.011 665.921 665.831 665.741 665.651 665.561 665.471 665.381 665.291 665.201 665.111 665.021 664.931 664.841 664.751 664.661 664.571 664.481 664.391 664.301 664.211 664.121 664.031 663.941 663.851 663.761 663.671 663.581 663.491 663.401 663.311 663.221 663.131 663.041 662.951 662.861 662.771 662.681 662.591 662.501 662.411 662.321 662.231 662.141 662.051 661.961 661.871 661.781 661.691 661.601 661.511 661.421 661.331 661.241 661.151 661.061 660.971 660.881 660.791 660.701 660.611 660.521 660.431 660.341 660.251 660.161 660.071 659.981 659.891 659.801 659.711 659.621 659.531 659.441 659.351 659.261 659.171 659.081 658.991 658.901 658.811 658.721 658.631 658.541 658.451 658.361 658.271 658.181 658.091 658.001 657.911 657.821 657.731 657.641 657.551 657.461 657.371 657.281 657.191 657.101 657.011 656.921 656.831 656.741 656.651 656.561 656.471 656.381 656.291 656.201 656.111 656.021 655.931 655.841 655.751 655.661 655.571 655.481 655.391 655.301 655.211 655.121 655.031 654.941 654.851 654.761 654.671 654.581 654.491 654.401 654.311 654.221 654.131 654.041 653.951 653.861 653.771 653.681 653.591 653.501 653.411 653.321 653.231 653.141 653.051 652.961 652.871 652.781 652.691 652.601 652.511 652.421 652.331 652.241 652.151 652.061 651.971 651.881 651.791 651.701 651.611 651.521 651.431 651.341 651.251 651.161 651.071 650.981 650.891 650.801 650.711 650.621 650.531 650.441 650.351 650.261 650.171 650.081 649.991 649.901 649.811 649.721 649.631 649.541 649.451 649.361 649.271 649.181 649.091 649.001 648.911 648.821 648.731 648.641 648.551 648.461 648.371 648.281 648.191 648.101 648.011 647.921 647.831 647.741 647.651 647.561 647.471 647.381 647.291 647.201 647.111 647.021 646.931 646.841 646.751 646.661 646.571 646.481 646.391 646.301 646.211 646.121 646.031 645.941 645.851 645.761 645.671 645.581 645.491 645.401 645.311 645.221 645.131 645.041 644.951 644.861 644.771 644.681 644.591 644.501 644.411 644.321 644.231 644.141 644.051 643.961 643.871 643.781 643.691 643.601 643.511 643.421 643.331 643.241 643.151 643.061 642.971 642.881 642.791 642.701 642.611 642.521 642.431 642.341 642.251 642.161 642.071 641.981 641.891 641.801 641.711 641.621 641.531 641.441 641.351 641.261 641.171 641.081 640.991 640.901 640.811 640.721 640.631 640.541 640.451 640.361 640.271 640.181 640.091 639.999 639.909 639.819 639.729 639.639 639.549 639.459 639.369 639.279 639.189 639.099 639.009 638.919 638.829 638.739 638.649 638.559 638.469 638.379 638.289 638.199 638.109 638.019 637.929 637.839 637.749 637.659 637.569 637.479 637.389 637.299 637.209 637.119 637.029 636.939 636.849 636.759 636.669 636.579 636.489 636.399 636.309 636.219 636.129 636.039 635.949 635.859 635.769 635.679 635.589 635.499 635.409 635.319 635.229 635.139 635.049 634.959 634.869 634.779 634.689 634.599 634.509 634.419 634.329 634.239 634.149 634.059 633.969 633.879 633.789 633.699 633.609 633.519 633.429 633.339 633.249 633.159 633.069 632.979 632.889 632.799 632.709 632.619 632.529 632.439 632.349 632.259 632.169 632.079 631.989 631.899 631.809 631.719 631.629 631.539 631.449 631.359 631.269 631.179 631.089 630.999 630.909 630.819 630.729 630.639 630.549 630.459 630.369 630.279 630.189 630.099 629.999 629.909 629.819 629.729 629.639 629.549 629.459 629.369 629.279 629.189 629.099 629.009 628.919 628.829 628.739 628.649 628.559 628.469 628.379 628.289 628.199 628.109 628.019 627.929 627.839 627.749 627.659 627.569 627.479 627.389 627.299 627.209 627.119 627.029 626.939 626.849 626.759 626.669 626.579 626.489 626.399 626.309 626.219 626.129 626.039 625.949 625.859 625.769 625.679 625.589 625.499 625.409 625.319 625.229 625.139 625.049 624.959 624.869 624.779 624.689 624.599 624.509 624.419 624.329 624.239 624.149 624.059 623.969 623.879 623.789 623.699 623.609 623.519 623.429 623.339 623.249 623.159 623.069 622.979 622.889 622.799 622.709 622.619 622.529 622.439 622.349 622.259 622.169 622.079 621.989 621.899 621.809 621.719 621.629 621.539 621.449 621.359 621.269 621.179 621.089 620.999 620.909 620.819 620.729 620.639 620.549 620.459 620.369 620.279 620.189 620.099 619.999 619.909 619.819 619.729 619.639 619.549 619.459 619.369 619.279 619.189 619.099 619.009 618.919 618.829 618.739 618.649 618.559 618.469 618.379 618.289 618.199 618.109 618.019 617.929 617.839 617.749 617.659 617.569 617.479 617.389 617.299 617.209 617.119 617.029 616.939 616.849 616.759 616.669 616.579 616.489 6
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LEGEND

PLAN:-

PROP.CENTER LINE

PROP.CARRIAGEWAY EDGE

PROP.EARTHEN SHOULDER

TOE LINE

PROP.RIGHT OF WAY

CULVERT

MAJOR/MINOR BRIDGE

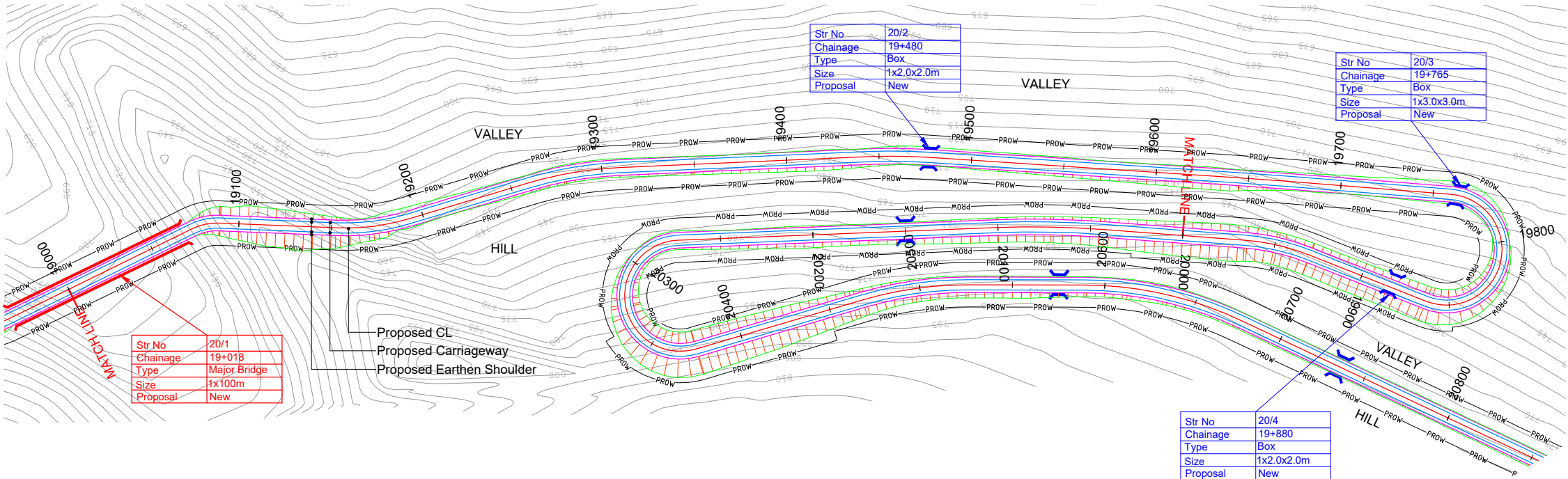
PROFILE:-

PROP.ROAD LEVEL

EXISTING GROUND LEVEL

GROUND LEVEL @6M LEFT

GROUND LEVEL @6M RIGHT



HIP NO. 145 AT CH. 19081.84				HIP NO. 146 AT CH. 19172.438				HIP NO. 147 AT CH. 19284.693				HIP NO. 148 AT CH. 19460.269				HIP NO. 149 AT CH. 19658.147				HIP NO. 150 AT CH. 19811.131				HIP NO. 151 AT CH. 19948.405			
X = 664255.037 Y = 3191756.351				X = 664175.892 Y = 3191801.141				X = 664065.217 Y = 3191821.682				X = 663905.51 Y = 3191894.967				X = 663735.769 Y = 3191996.703				X = 663819.671 Y = 3191944.876				X = 663744.402 Y = 3192030.748			
R (m)	30	Ls (m)		R (m)	120	Ls (m)		R (m)	200	Ls (m)		R (m)	300	Ls (m)		R (m)	2000	Ls (m)		R (m)	30	Ls (m)		R (m)	120	Ls (m)	
Dc(deg)	28.4817	S(m)		Dc(deg)	18.9921	S(m)		Dc(deg)	14.1352	S(m)		Dc(deg)	6.2878	S(m)		Dc(deg)	0.767	S(m)		Dc(deg)	197.0612	S(m)		Dc(deg)	17.2432	S(m)	
Lc(m)	14.91	Ts(deg)		Lc(m)	39.78	Ts(deg)		Lc(m)	49.34	Ts(deg)		Lc(m)	32.92	Ts(deg)		Lc(m)	26.78	Ts(deg)		Lc(m)	103.18	Ts(deg)		Lc(m)	36.11	Ts(deg)	
Ts(m)	7.614	Δ(deg)	28.4817	Ts(m)	20.073	Δ(deg)	18.9921	Ts(m)	24.796	Δ(deg)	14.1352	Ts(m)	16.478	Δ(deg)	6.2878	Ts(m)	13.388	Δ(deg)	0.767	Ts(m)	-200.00	Δ(deg)	197.0612	Ts(m)	18.195	Δ(deg)	17.2432
Es(m)	0.951	e(%)	10.00%	Es(m)	1.667	e(%)	9.26%	Es(m)	1.531	e(%)	5.56%	Es(m)	0.452	e(%)	3.70%	Es(m)	0.045	e(%)	-2.50%	Es(m)	-232.24	e(%)	10.00%	Es(m)	1.371	e(%)	9.26%
V(km/hr)	30	We(m)	1.5	V(km/hr)	50	We(m)	0.6	V(km/hr)	50	We(m)	0.6	V(km/hr)	50	We(m)	0.6	V(km/hr)	50	We(m)	Nil	V(km/hr)	30	We(m)	1.5	V(km/hr)	50	We(m)	0.6
CurveType	RIGHT			CurveType	LEFT			CurveType	RIGHT			CurveType	RIGHT			CurveType	LEFT			CurveType	LEFT			CurveType	RIGHT		

R7	AUG 2023	FINAL DPR
R6	JAN 2023	MODIFIED DETAILED PROJECT REPORT
R5	JULY 2022	MODIFIED DETAILED PROJECT REPORT
R4	AUG 2019	MODIFIED DETAILED PROJECT REPORT
R3	JULY 2018	DETAILED PROJECT REPORT
REV.	DATE	DESCRIPTION OF REVISIONS

CLIENT:

National Highways & Infrastructure Development Corporation Limited.

3rd Floor, PTI building, 4-Parliament Street, New Delhi-110001

PROJECT:

Consultancy Services for Preparation of Feasibility study and Detailed Project Report for Two laning of Pango to Jorging Road (Length - 90km) for execution on EPC Mode in the state of Arunachal Pradesh under SARDP-NE Phase 'B'

DPR CONSULTANT:

Shweta Technophile Consultants Pvt. Ltd.

(222-223,313, Rajhans Plaza, Ahinsa Khand-I, Indirapuram, Ghaziabad, UP-201014)

DRAWN BY	ASHISH RAWAT
DESIGN BY	RAM SONKAR
CHECKED BY	GEETA JINDAL
HORIZONTAL SCALE	VERTICAL SCALE
1:2000	1:200

TITLE:

PLAN AND PROFILE

FROM CH:19+000 TO CH:20+000

DRAWING NO.

NHIDCL/PANGO-JORGING/STC/PP- 37

A3

PLAN:-

CULVERT	
MAJOR/MINOR BRIDGE	

PROFILE:-

PROP. ROAD LEVEL ————

EXISTING GROUND LEVEL - - - -

GROUND LEVEL @6M LEFT - - - -

GROUND LEVEL @6M RIGHT - - - -

Str No	20/1
Chainage	19+018
Type	Major Bridge
Size	1x100m
Proposal	New

Proposed Road Levels

Ground Levels

Ground Levels @6m Left

Ground Levels @6m Right

Str No	20/2
Chainage	19+480
Type	Box
Size	1x2.0x2.0m
Proposal	New

Str No	20/4
Chainage	19+880
Type	Box
Size	1x2.0x2.0m
Proposal	New

Str No	20/3
Chainage	19+765
Type	Box
Size	1x3.0x3.0m
Proposal	New

DATUM = 710

DATUM = 720

R7	AUG 2023	FINAL DPR	 CLIENT: National Highways & Infrastructure Development Corporation Limited. 3rd Floor, PTI building, 4-Parliament Street, New Delhi-110001	PROJECT: Consultancy Services for Preparation of Feasibility study and Detailed Project Report for Two laning of Pango to Jorging Road (Length - 90km) for execution on EPC Mode in the state of Arunachal Pradesh under SARDP-NE Phase 'B'	DPR CONSULTANT:  Shweta Technophile Consultants Pvt. Ltd. (222-223,313, Rajhans Plaza, Ahinsa Khand-I, Indirapuram, Ghaziabad, UP-201014)	DRAWN BY	ASHISH RAWAT	TITLE: PLAN AND PROFILE FROM CH:19+000 TO CH:20+000
R6	JAN 2023	MODIFIED DETAILED PROJECT REPORT				DESIGN BY	RAM SONKAR	
R5	JULY 2022	MODIFIED DETAILED PROJECT REPORT				CHECKED BY	GEETA JINDAL	
R4	AUG 2019	MODIFIED DETAILED PROJECT REPORT				HORIZONTAL SCALE 1:2000	VERTICAL SCALE 1:200	
R3	JULY 2018	DETAILED PROJECT REPORT						DRAWING NO.
REV.	DATE	DESCRIPTION OF REVISIONS						

LEGEND

PLAN:-

PROP.CENTER LINE

PROP.CARRIAGEWAY EDGE

PROP.EARTHEN SHOULDER

TOE LINE

PROP.RIGHT OF WAY

CULVERT

MAJOR/MINOR BRIDGE

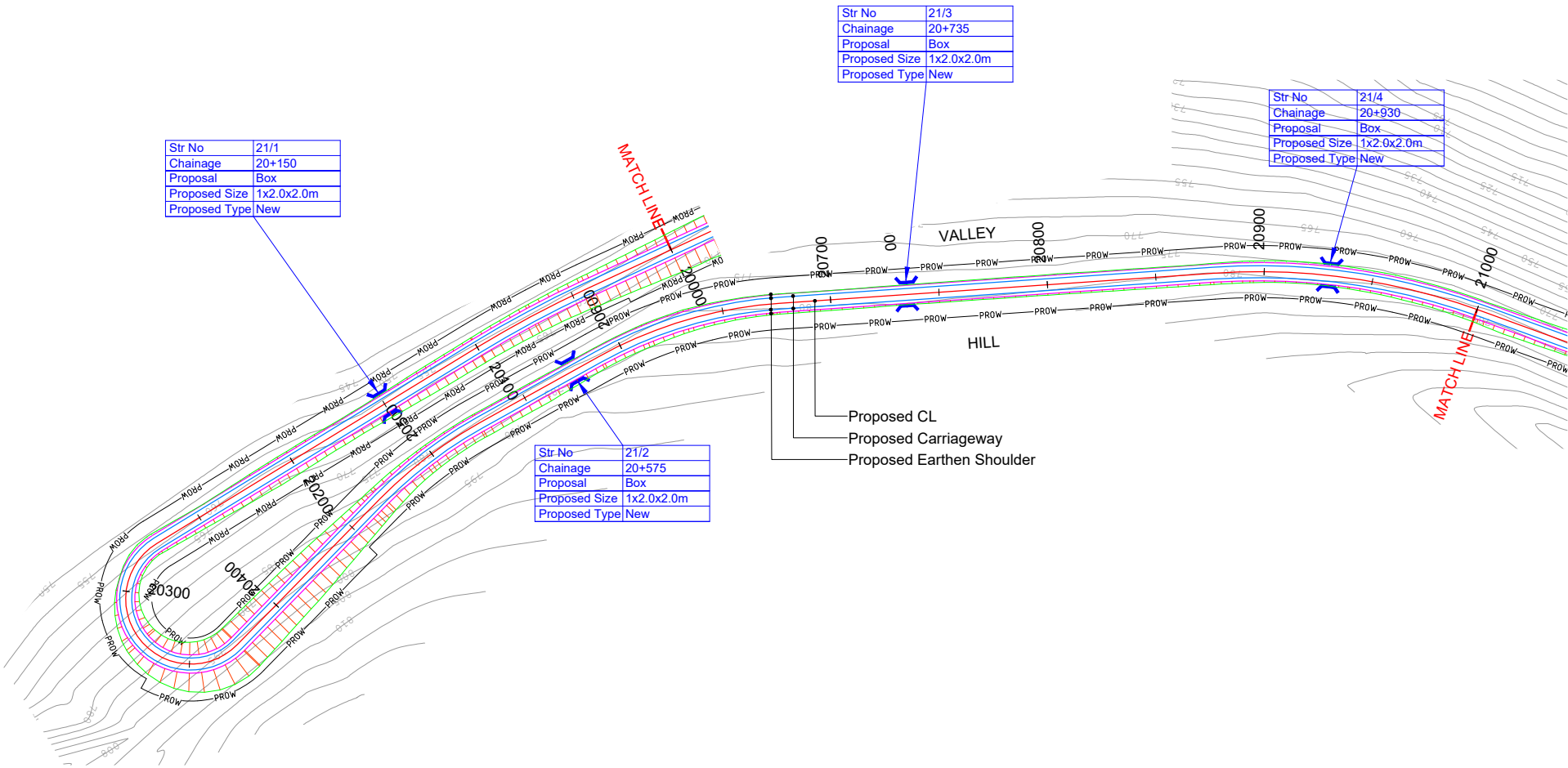
PROFILE:-

PROP.ROAD LEVEL

EXISTING GROUND LEVEL

GROUND LEVEL @6M LEFT

GROUND LEVEL @6M RIGHT



HIP NO. 152 AT CH. 20071.552				HIP NO. 153 AT CH. 20323.718				HIP NO. 154 AT CH. 20497.28				HIP NO. 155 AT CH. 20632.492				HIP NO. 156 AT CH. 20939.259			
X = 663849.523	Y = 3191966.276			X = 663813.039	Y = 3191983.208			X = 663929.615	Y = 3191961.098			X = 663808.641	Y = 3192023.52			X = 663620.483	Y = 3192267.888		
R (m)	500	Ls (m)		R (m)	30	Ls (m)		R (m)	200	Ls (m)		R (m)	200	Ls (m)		R (m)	300	Ls (m)	
Dc(deg)	6.6248	S(m)		Dc(deg)	194.1582	S(m)		Dc(deg)	16.5542	S(m)		Dc(deg)	25.1107	S(m)		Dc(deg)	23.964	S(m)	
Lc(m)	57.81	Ts(deg)		Lc(m)	101.66	Ts(deg)		Lc(m)	57.78	Ts(deg)		Lc(m)	87.65	Ts(deg)		Lc(m)	125.47	Ts(deg)	
Ts(m)	28.938	Δ(deg)	6.6248	Ts(m)	-241.573	Δ(deg)	194.1582	Ts(m)	29.095	Δ(deg)	16.5542	Ts(m)	44.542	Δ(deg)	25.1107	Ts(m)	63.668	Δ(deg)	23.964
Es(m)	0.837	e(%)	-2.50%	Es(m)	-273.428	e(%)	10.00%	Es(m)	2.105	e(%)	5.56%	Es(m)	4.9	e(%)	5.56%	Es(m)	6.682	e(%)	3.70%
V(km/hr)	50	We(m)	Nil	V(km/hr)	30	We(m)	1.5	V(km/hr)	50	We(m)	0.6	V(km/hr)	50	We(m)	0.6	V(km/hr)	50	We(m)	0.6
CurveType	RIGHT			CurveType	RIGHT			CurveType	LEFT			CurveType	RIGHT			CurveType	RIGHT		

R7	AUG 2023	FINAL DPR
R6	JAN 2023	MODIFIED DETAILED PROJECT REPORT
R5	JULY 2022	MODIFIED DETAILED PROJECT REPORT
R4	AUG 2019	MODIFIED DETAILED PROJECT REPORT
R3	JULY 2018	DETAILED PROJECT REPORT
REV.	DATE	DESCRIPTION OF REVISIONS

CLIENT:



National Highways & Infrastructure Development Corporation Limited.
3rd Floor, PTI building, 4-Parliament Street, New Delhi-110001

PROJECT:

Consultancy Services for Preparation of Feasibility study and Detailed Project Report for Two laning of Pango to Jorging Road (Length - 90km) for execution on EPC Mode in the state of Arunachal Pradesh under SARDP-NE Phase 'B'

DPR CONSULTANT:



Shweta Technophile Consultants Pvt. Ltd.
(222-223,313, Rajhans Plaza, Ahinsa Khand-I, Indirapuram, Ghaziabad, UP-201014)



DRAWN BY	ASHISH RAWAT
DESIGN BY	RAM SONKAR
CHECKED BY	GEETA JINDAL
HORIZONTAL SCALE	VERTICAL SCALE
1:2000	1:200

TITLE:	
PLAN AND PROFILE FROM CH:20+000 TO CH:21+000	
DRAWING NO.	
NHIDCL/PANGO-JORGING/STC/PP- 38	A3

PLAN:-

PROP.CENTER LINE

PROP.CARRIAGEWAY EDGE

PROP EARTHEN SHOULDER

TOE LINE

PROF. RIGHT OF WAY

CULVERT

MAJOR/MINOR BRIDGE

PROFILE:-

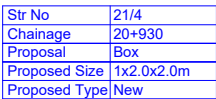
PROP.ROAD LEVEL

EXISTING GROUND LEVEL

GROUND LEVEL @6M LEFT - - - -

GROUND LEVEL @ 6M RIGHT- - -

1. *Journal of the American Medical Association*, 2000; 284: 2689-2694.



DRAWING NO.	
NHIDCL/PANGO-JORGING/STC/PP- 39	A3

LEGEND

PLAN:-

PROP.CENTER LINE

PROP.CARRIAGEWAY EDGE

PROP.EARTHEN SHOULDER

TOE LINE

PROP.RIGHT OF WAY

CULVERT

MAJOR/MINOR BRIDGE

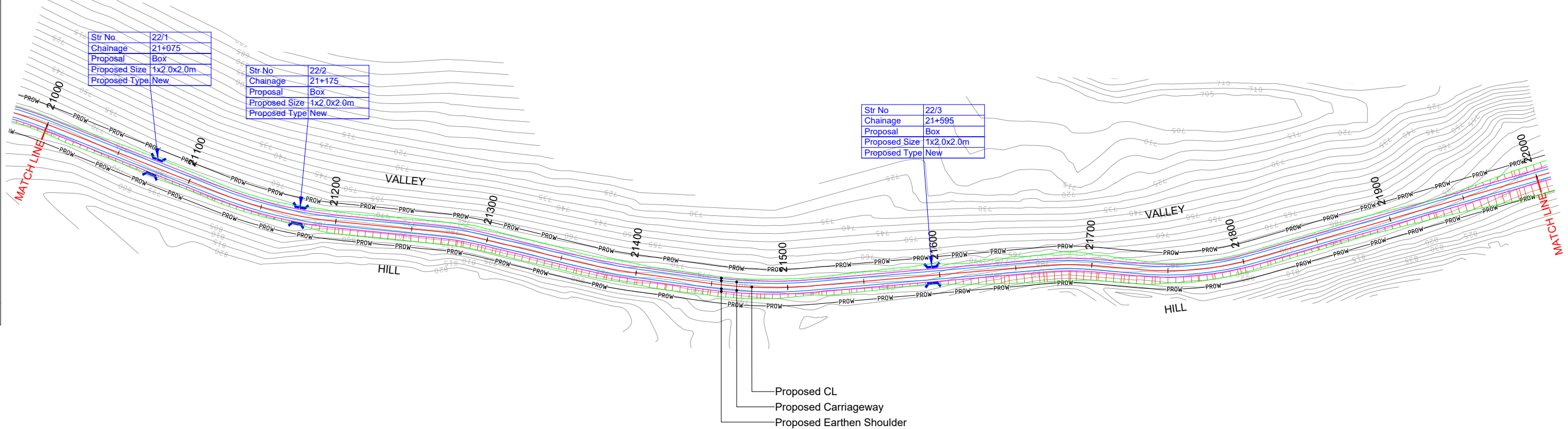
PROFILE:-

PROP.ROAD LEVEL

EXISTING GROUND LEVEL

GROUND LEVEL @6M LEFT

GROUND LEVEL @6M RIGHT



HIP NO. 157 AT CH. 21160.351				HIP NO. 158 AT CH. 21283.783				HIP NO. 159 AT CH. 21381.473				HIP NO. 160 AT CH. 21482.268				HIP NO. 161 AT CH. 21685.941				HIP NO. 162 AT CH. 21769.396			
X = 663568.092		Y = 3192483.926		X = 663506.795		Y = 3192591.408		X = 663470.536		Y = 3192682.161		X = 663423.982		Y = 3192771.742		X = 663291.837		Y = 3192926.982		X = 663248.393		Y = 3192998.473	
R (m)	300	Ls (m)		R (m)	200	Ls (m)		R (m)	400	Ls (m)		R (m)	300	Ls (m)		R (m)	200	Ls (m)		R (m)	200	Ls (m)	20
Dc(deg)	16.0646	S(m)		Dc(deg)	7.9183	S(m)		Dc(deg)	5.6829	S(m)		Dc(deg)	12.9445	S(m)		Dc(deg)	10.2943	S(m)		Dc(deg)	15.754	S(m)	0.08
Lc(m)	84.11	Ts(deg)		Lc(m)	27.64	Ts(deg)		Lc(m)	39.67	Ts(deg)		Lc(m)	67.78	Ts(deg)		Lc(m)	35.93	Ts(deg)		Lc(m)	54.99	Ts(deg)	2.8648
Ts(m)	42.335	Δ(deg)	16.0646	Ts(m)	13.842	Δ(deg)	7.9183	Ts(m)	19.853	Δ(deg)	5.6829	Ts(m)	34.033	Δ(deg)	12.9445	Ts(m)	18.015	Δ(deg)	10.2943	Ts(m)	47.956	Δ(deg)	21.4836
Es(m)	2.972	e(%)	3.70%	Es(m)	0.478	e(%)	5.56%	Es(m)	0.492	e(%)	2.78%	Es(m)	1.924	e(%)	3.70%	Es(m)	0.81	e(%)	5.56%	Es(m)	3.649	e(%)	5.56%
V(km/hr)	50	We(m)	0.6	V(km/hr)	50	We(m)	0.6	V(km/hr)	50	We(m)	Nil	V(km/hr)	50	We(m)	0.6	V(km/hr)	50	We(m)	0.6	V(km/hr)	50	We(m)	0.6
CurveType	LEFT			CurveType	RIGHT			CurveType	LEFT			CurveType	LEFT			CurveType	RIGHT			CurveType	LEFT		

R7	AUG 2023	FINAL DPR
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CLIENT:

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3rd Floor, PTI building, 4-Parliament Street, New Delhi-110001

PROJECT:

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DPR CONSULTANT:

Shweta Technophile Consultants Pvt. Ltd.
(222-223,313, Rajhans Plaza, Ahinsa Khand-I, Indirapuram, Ghaziabad, UP-201014)

DRAWN BY	ASHISH RAWAT
DESIGN BY	RAM SONKAR
CHECKED BY	GEETA JINDAL
HORIZONTAL SCALE 1:2000	VERTICAL SCALE 1:200

TITLE:

PLAN AND PROFILE
FROM CH:21+000 TO CH:22+000

DRAWING NO.
NHIDCL/PANGO-JORGING/STC/PP- 40

A3

LEGEND

PLAN:-

PROP.CENTER LINE

PROP.CARRIAGEWAY EDGE

PROP.EARTHEN SHOULDER

TOE LINE

PROP.RIGHT OF WAY

CULVERT

MAJOR/MINOR BRIDGE

PROFILE:-

PROP.ROAD LEVEL

EXISTING GROUND LEVEL

GROUND LEVEL @6M LEFT

GROUND LEVEL @6M RIGHT

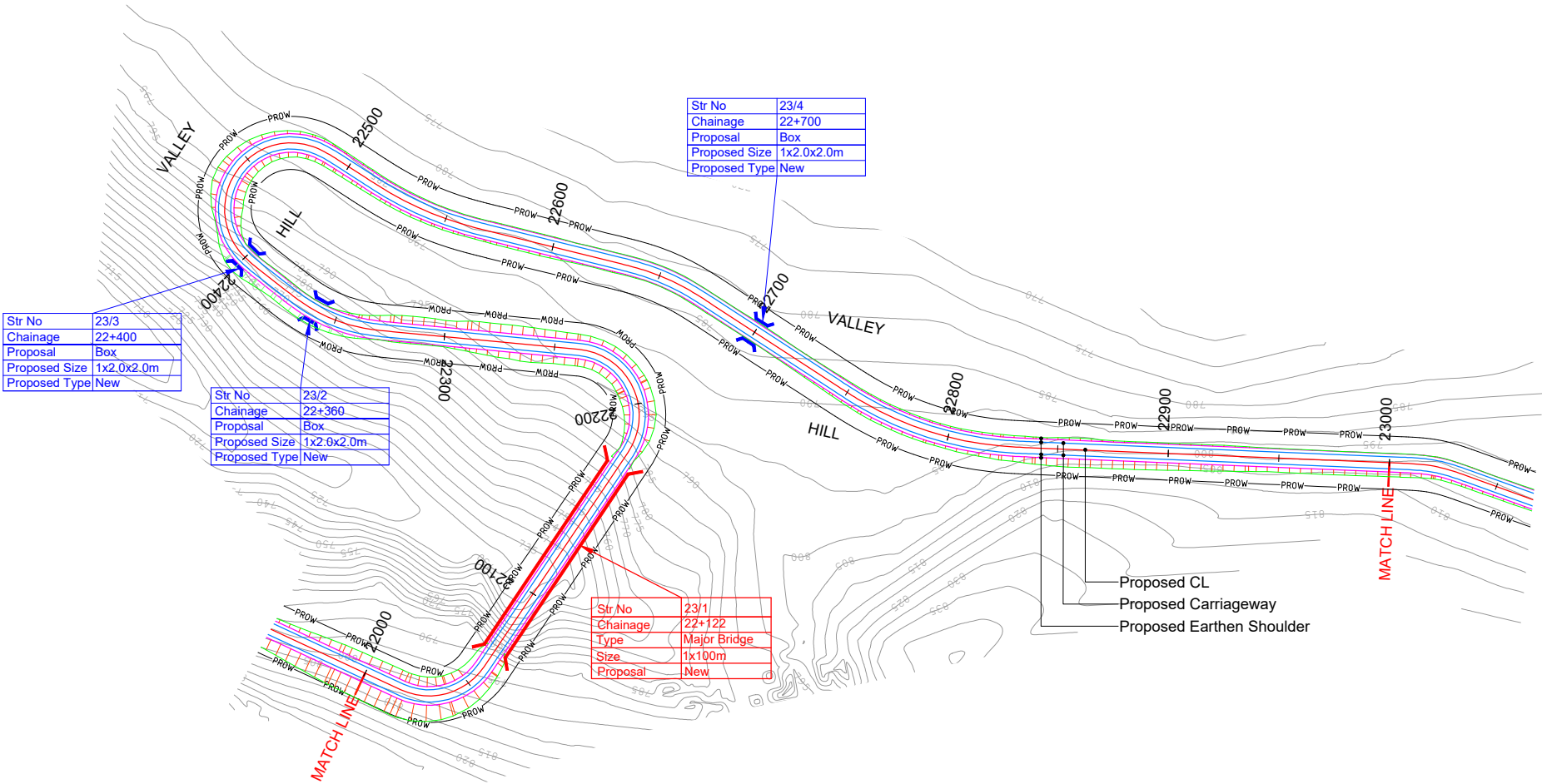


DATUM = 760	
Proposed Road Levels	779.112 779.132 779.152 779.172 779.192 779.212 779.232 779.252 779.272 779.292 779.312 779.332 779.352 779.372 779.392 779.412 779.432 779.452 779.472 779.512 779.532 779.552 779.592 779.612 779.632 779.652 779.689 779.700 779.680 779.659 779.631 779.594 779.550 779.499 779.440 779.373 779.299 779.217 779.131 779.045 779.958 778.872 778.786 778.700 778.613 778.527 778.441 778.355 778.283 778.254 778.269 778.329 778.433 778.581 778.773 779.010 779.291 779.616 779.985 780.398 780.842 781.286 781.731 782.175 782.619 783.064 783.508 783.952 784.397 784.841 785.285 785.730 786.174 786.618 787.022 787.363 787.642 787.857 788.010 788.099 788.126 788.090 787.991 787.829 787.605 787.317 786.967 786.553 786.078 785.579 785.080 784.581 784.083 783.584 783.088 782.541 782.040
Ground Levels	780.995 781.735 781.081 780.428 779.774 779.120 778.466 777.880 778.077 778.086 779.292 779.312 779.136 779.332 779.352 779.372 779.392 779.412 779.432 779.452 779.472 779.512 779.532 779.552 779.592 779.612 779.632 779.652 779.689 779.700 779.680 779.659 779.631 779.594 779.550 779.499 779.440 779.373 779.299 779.217 779.131 779.045 779.958 778.872 778.786 778.700 778.613 778.527 778.441 778.355 778.283 778.254 778.269 778.329 778.433 778.581 778.773 779.010 779.291 779.616 779.985 780.398 780.842 781.286 781.731 782.175 782.619 783.064 783.508 783.952 784.397 784.841 785.285 785.730 786.174 786.618 787.022 787.363 787.642 787.857 788.010 788.099 788.126 788.090 787.991 787.829 787.605 787.317 786.967 786.553 786.078 785.579 785.080 784.581 784.083 783.584 783.088 782.541 782.040
Ground Levels @6m Left	775.549 775.813 775.159 774.505 773.851 773.198 772.544 771.956 771.399 771.447 771.645 771.882 772.407 772.897 773.084 772.904 772.674 772.064 771.092 769.740 770.335 772.352 771.945 771.473 769.953 770.249 770.669 771.140 770.392 769.065 770.024 770.524 770.729 770.759 771.734 772.624 772.229 771.222 771.136 772.477 774.086 774.186 773.470 773.791 773.835 773.732 773.337 772.775 772.515 772.371 772.518 772.266 771.423 770.642 770.519 769.061 769.209 768.362 767.492 770.370 771.887 771.803 771.300 770.827 771.235 771.971 770.704 771.311 770.566 774.273 774.343 776.552 778.776 779.937 797.235 798.512 798.023 797.897 797.921 797.452 797.162 796.757 796.459 796.447 796.242 796.184 795.579 795.191 795.859 796.539 797.217 797.897 798.700 799.819 801.546 803.272 804.990 806.544 807.245 807.524
Ground Levels @6m Right	787.203 787.659 787.003 786.349 785.695 785.041 784.802 784.313 784.817 785.342 785.867 786.392 786.743 786.719 786.393 785.962 785.177 784.843 788.891 791.027 791.622 791.890 791.873 791.944 791.717 791.381 791.242 791.446 790.808 790.565 790.456 790.579 790.997 790.321 790.455 790.225 790.361 790.443 790.147 789.422 789.517 790.671 791.650 791.829 790.609 790.562 790.872 790.370 789.699 789.693 788.423 786.448 785.510 788.073 787.615 786.699 786.099 786.070 785.489 784.860 785.566 787.919 790.552 793.077 794.037 797.245 797.632 797.439 797.560 798.141 796.974 796.940 797.249 797.550 798.776 797.937 797.235 798.512 798.023 797.897 797.921 797.452 797.162 796.757 796.459 796.447 796.242 796.184 795.579 795.191 795.859 796.539 797.217 797.897 798.700 799.819 801.546 803.272 804.990 806.544 807.245 807.524
Vertical Alignment	G = 0.200% L = 387.371 R = 13173.803 L = 140.000 G = -0.862% L = 101.206 R = 2261.497 L = 120.000 G = 4.444% L = 136.600 R = 1590.333 L = 150.000 G = -4.988% L = 58.286
Horizontal Alignment	L = 116.298 R: 300.000 L: 84.114 L = 67.555 R: 200.000 L: 27.640 L = 64.033 R: 400.000 L: 39.674 L = 47.069 R: 300.000 L: 67.777 L = 151.818 R: 200.000 L: 35.934L = 17.992 L: 20.000 R: 200.000 L: 54.992 L: 20.000 L = 201.021
Chainage	-21000.000 -21010.000 -21020.000 -21030.000 -21040.000 -21050.000 -21060.000 -21070.000 -21080.000 -21090.000 -21100.000 -21110.000 -21120.000 -21130.000 -21140.000 -21150.000 -21160.000 -21170.000 -21180.000 -21190.000 -21200.000 -21210.000 -21220.000 -21230.000 -21240.000 -21250.000 -21260.000 -21270.000 -21280.000 -21290.000 -21300.000 -21310.000 -21320.000 -21330.000 -21340.000 -21350.000 -21360.000 -21370.000 -21380.000 -21390.000 -21400.000 -21410.000 -21420.000 -21430.000 -21440.000 -21450.000 -21460.000 -21470.000 -21480.000 -21490.000 -21500.000 -21510.000 -21520.000 -21530.000 -21540.000 -21550.000 -21560.000 -21570.000 -21580.000 -21590.000 -21600.000 -21610.000 -21620.000 -21630.000 -21640.000 -21650.000 -21660.000 -21670.000 -21680.000 -21690.000 -21700.000 -21710.000 -21720.000 -21730.000 -21740.000 -21750.000 -21760.000 -21770.000 -21780.000 -21790.000 -21800.000 -21810.000 -21820.000 -21830.000 -21840.000 -21850.000 -21860.000 -21870.000 -21880.000 -21890.000 -21900.000 -21910.000 -21920.000 -21930.000 -21940.000 -21950.000 -21960.000 -21970.000 -21980.000 -21990.000 -22000.000

LEGEND

PLAN:-
PROP.CENTER LINE
PROP.CARRIAGEWAY EDGE
PROP.EARTHEN SHOULDER
TOE LINE
PROP.RIGHT OF WAY
CULVERT
MAJOR/MINOR BRIDGE

PROFILE:-
PROP.ROAD LEVEL
EXISTING GROUND LEVEL
GROUND LEVEL @6M LEFT
GROUND LEVEL @6M RIGHT



HIP NO. 163 AT CH. 22039.136				HIP NO. 164 AT CH. 22207.886				HIP NO. 165 AT CH. 22350.858				HIP NO. 166 AT CH. 22442.795				HIP NO. 167 AT CH. 22539.834				HIP NO. 168 AT CH. 22653.113				HIP NO. 169 AT CH. 22791.118			
X = 663034.505		Y = 3193170.221		X = 662892.921		Y = 3193039.752		X = 663045.92		Y = 3192985.368		X = 663120.359		Y = 3192853.716		X = 662994.302		Y = 3192946.923		X = 662894.663		Y = 3193000.95		X = 662797.242		Y = 3193099.409	
R (m)	30	Ls (m)		R (m)	30	Ls (m)		R (m)	70	Ls (m)	15	R (m)	30	Ls (m)	15	R (m)	150	Ls (m)	15	R (m)	100	Ls (m)	15	R (m)	150	Ls (m)	15
Dc(deg)	81.0659	S(m)		Dc(deg)	118.4323	S(m)		Dc(deg)	20.2688	S(m)	0.13	Dc(deg)	146.2265	S(m)	0.31	Dc(deg)	13.2361	S(m)	0.06	Dc(deg)	10.5797	S(m)	0.09	Dc(deg)	24.9569	S(m)	0.06
Lc(m)	42.45	Ts(deg)		Lc(m)	62.01	Ts(deg)		Lc(m)	24.76	Ts(deg)	6.1388	Lc(m)	76.56	Ts(deg)	14.3239	Lc(m)	34.65	Ts(deg)	2.8648	Lc(m)	18.47	Ts(deg)	4.2972	Lc(m)	65.34	Ts(deg)	2.8648
Ts(m)	25.652	Δ(deg)	81.0659	Ts(m)	50.358	Δ(deg)	118.4323	Ts(m)	27.969	Δ(deg)	32.5465	Ts(m)	684.659	Δ(deg)	174.8744	Ts(m)	32.565	Δ(deg)	18.9657	Ts(m)	24.404	Δ(deg)	19.174	Ts(m)	48.673	Δ(deg)	30.6865
Es(m)	9.472	e(%)	10.00%	Es(m)	28.617	e(%)	10.00%	Es(m)	3.057	e(%)	10.00%	Es(m)	647.852	e(%)	10.00%	Es(m)	2.139	e(%)	7.41%	Es(m)	1.508	e(%)	10.00%	Es(m)	5.606	e(%)	7.41%
V(km/hr)	30	We(m)	1.5	V(km/hr)	30	We(m)	1.5	V(km/hr)	40	We(m)	0.9	V(km/hr)	30	We(m)	1.5	V(km/hr)	50	We(m)	0.6	V(km/hr)	50	We(m)	0.9	V(km/hr)	50	We(m)	0.6
CurveType	LEFT			CurveType	LEFT			CurveType	RIGHT			CurveType	RIGHT			CurveType	LEFT			CurveType	RIGHT			CurveType	LEFT		

R7	AUG 2023	FINAL DPR
R6	JAN 2023	MODIFIED DETAILED PROJECT REPORT
R5	JULY 2022	MODIFIED DETAILED PROJECT REPORT
R4	AUG 2019	MODIFIED DETAILED PROJECT REPORT
R3	JULY 2018	DETAILED PROJECT REPORT
REV.	DATE	DESCRIPTION OF REVISIONS

CLIENT:



National Highways & Infrastructure Development Corporation Limited.
3rd Floor, PTI building, 4-Parliament Street, New Delhi-110001

PROJECT:

Consultancy Services for Preparation of Feasibility study and Detailed Project Report for Two laning of Pango to Jorging Road (Length - 90km) for execution on EPC Mode in the state of Arunachal Pradesh under SARDP-NE Phase 'B'

DPR CONSULTANT:



Shweta Technophile Consultants Pvt. Ltd.
(222-223,313, Rajhans Plaza, Ahinsa Khand-I, Indirapuram, Ghaziabad, UP-201014)

DRAWN BY	ASHISH RAWAT
DESIGN BY	RAM SONKAR
CHECKED BY	GEETA JINDAL
HORIZONTAL SCALE 1:2000	VERTICAL SCALE 1:200

TITLE:

PLAN AND PROFILE
FROM CH:22+000 TO CH:23+000

DRAWING NO.
NHIDCL/PANGO-JORGING/STC/PP- 42

A3

PLAN:-

PROFILE:-

Str No	23/1
Chainage	22+122
Type	Major Bridge
Size	1x100m
Proposal	New

Str No	23/3
Chainage	22+400
Proposal	Box
Proposed Size	1x2.0x2.0m
Proposed Type	New

Proposed Road Levels
Ground Levels
Ground Levels @6m Left
Ground Levels @6m Right

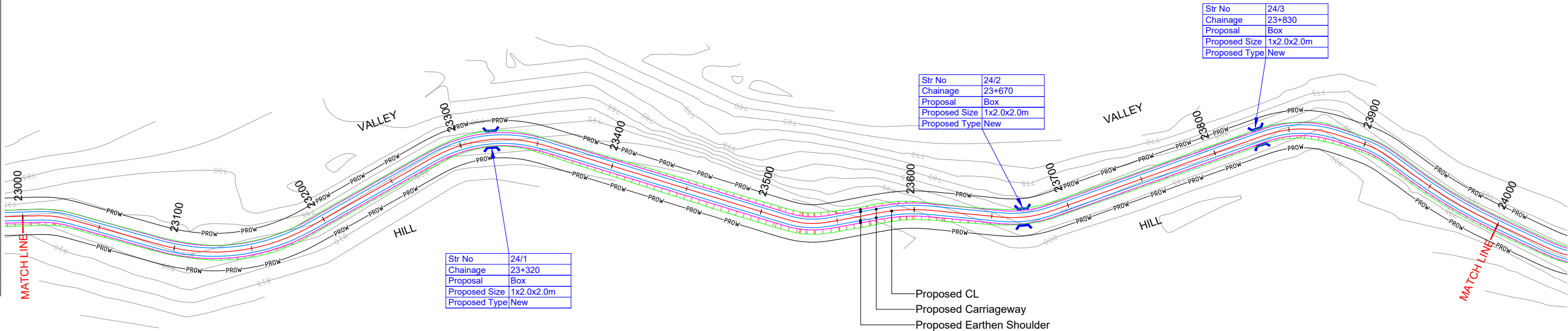
DATUM = 755

R7	AUG 2023	FINAL DPR	CLIENT: National Highways & Infrastructure Development Corporation Limited. 3rd Floor, PTI building, 4-Parliament Street, New Delhi-110001	PROJECT: Consultancy Services for Preparation of Feasibility study and Detailed Project Report for Two laning of Pango to Jorging Road (Length - 90km) for execution on EPC Mode in the state of Arunachal Pradesh under SARDP-NE Phase 'B'	DPR CONSULTANT: Shweta Technophile Consultants Pvt. Ltd. (222-223,313, Rajhans Plaza, Ahinsa Khand-I, Indirapuram, Ghaziabad, UP-201014)		DRAWN BY	ASHISH RAWAT	TITLE: PLAN AND PROFILE FROM CH:22+000 TO CH:23+000
R6	JAN 2023	MODIFIED DETAILED PROJECT REPORT					DESIGN BY	RAM SONKAR	
R5	JULY 2022	MODIFIED DETAILED PROJECT REPORT					CHECKED BY	GEETA JINDAL	
R4	AUG 2019	MODIFIED DETAILED PROJECT REPORT					HORIZONTAL SCALE 1:2000	VERTICAL SCALE 1:200	
R3	JULY 2018	DETAILED PROJECT REPORT					DRAWING NO.		
REV.	DATE	DESCRIPTION OF REVISIONS	NHIDCL/PANGO-JORGING/STC/PP- 43						

LEGEND

PLAN:-
PROP.CENTER LINE
PROP.CARRIAGEWAY EDGE
PROP.EARTHEN SHOULDER
TOE LINE
PROP.RIGHT OF WAY
CULVERT
MAJOR/MINOR BRIDGE

PROFILE:-
PROP.ROAD LEVEL
EXISTING GROUND LEVEL
GROUND LEVEL @6M LEFT
GROUND LEVEL @6M RIGHT



HIP NO. 170 AT CH. 23020.996				HIP NO. 171 AT CH. 23140.404				HIP NO. 172 AT CH. 23317.624				HIP NO. 173 AT CH. 23531.055				HIP NO. 174 AT CH. 23594.721				HIP NO. 175 AT CH. 23672.272				HIP NO. 176 AT CH. 23857.674				HIP NO. 177 AT CH. 23908.651				HIP NO. 178 AT CH. 23967.941			
X = 662576.413		Y = 3193164.913		X = 662473.242		Y = 3193228.084		X = 662296.231		Y = 3193196.568		X = 662117.242		Y = 3193314.479		X = 662054.477		Y = 3193324.778		X = 661982.245		Y = 3193352.927		X = 661796.69		Y = 3193349.869		X = 661754.06		Y = 3193378.375		X = 661718.945		Y = 3193426.368	
R (m)	55	Ls (m)	15	R (m)	125	Ls (m)	15	R (m)	90	Ls (m)	15	R (m)	50	Ls (m)	15	R (m)	100	Ls (m)	20	R (m)	70	Ls (m)	15	R (m)	70	Ls (m)	15	R (m)	70	Ls (m)		R (m)	300	Ls (m)	
Dc(deg)	1.7553	S(m)	0.17	Dc(deg)	38.3061	S(m)	0.08	Dc(deg)	36.9367	S(m)	0.1	Dc(deg)	10.2651	S(m)	0.19	Dc(deg)	4.5573	S(m)	0.17	Dc(deg)	12.8916	S(m)	0.13	Dc(deg)	26.1007	S(m)	0.13	Dc(deg)	17.5014	S(m)		Dc(deg)	11.2032	S(m)	
Lc(m)	1.69	Ts(deg)	7.8131	Lc(m)	83.57	Ts(deg)	3.4377	Lc(m)	58.02	Ts(deg)	4.7746	Lc(m)	8.96	Ts(deg)	8.5944	Lc(m)	7.95	Ts(deg)	5.7296	Lc(m)	15.75	Ts(deg)	6.1388	Lc(m)	31.89	Ts(deg)	6.1388	Lc(m)	21.38	Ts(deg)		Lc(m)	58.66	Ts(deg)	
Ts(m)	15.928	Δ(deg)	17.3815	Ts(m)	59.541	Δ(deg)	45.1816	Ts(m)	46.195	Δ(deg)	46.486	Ts(m)	19.754	Δ(deg)	27.4538	Ts(m)	24.089	Δ(deg)	16.0165	Ts(m)	23.153	Δ(deg)	25.1692	Ts(m)	31.904	Δ(deg)	38.3784	Ts(m)	10.775	Δ(deg)	17.5014	Ts(m)	29.424	Δ(deg)	11.2032
Es(m)	0.811	e(%)	10.00%	Es(m)	10.475	e(%)	8.89%	Es(m)	8.058	e(%)	7.90%	Es(m)	1.666	e(%)	10.00%	Es(m)	1.156	e(%)	10.00%	Es(m)	1.856	e(%)	10.00%	Es(m)	4.256	e(%)	10.00%	Es(m)	0.824	e(%)	10.00%	Es(m)	1.439	e(%)	3.70%
V(km/hr)	40	We(m)	1.2	V(km/hr)	50	We(m)	0.6	V(km/hr)	40	We(m)	0.9	V(km/hr)	40	We(m)	1.2	V(km/hr)	50	We(m)	0.9	V(km/hr)	40	We(m)	0.9	V(km/hr)	40	We(m)	0.9	V(km/hr)	40	We(m)	0.9	V(km/hr)	50	We(m)	0.6
CurveType	RIGHT			CurveType	LEFT			CurveType	RIGHT			CurveType	LEFT			CurveType	RIGHT			CurveType	LEFT			CurveType	RIGHT			CurveType	RIGHT			CurveType	LEFT		

R7	AUG 2023	FINAL DPR
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CLIENT:



National Highways & Infrastructure Development Corporation Limited.
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PROJECT:

Consultancy Services for Preparation of Feasibility study and Detailed Project Report for Two laning of Pango to Jorging Road (Length - 90km) for execution on EPC Mode in the state of Arunachal Pradesh under SARDP-NE Phase 'B'

DPR CONSULTANT:



Shweta Technophile Consultants Pvt. Ltd.
(222-223,313, Rajhans Plaza, Ahinsa Khand-I, Indirapuram, Ghaziabad, UP-201014)

DRAWN BY	ASHISH RAWAT
DESIGN BY	RAM SONKAR
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HORIZONTAL SCALE 1:2000	VERTICAL SCALE 1:200

TITLE:

PLAN AND PROFILE
FROM CH:23+000 TO CH:24+000

DRAWING NO.
NHIDCL/PANGO-JORGING/STC/PP- 44

A3

LEGEND

PLAN:-

PROP.CENTER LINE

PROP.CARRIAGEWAY EDGE

PROP.EARTHEN SHOULDER

TOE LINE

PROP.RIGHT OF WAY

CULVERT

MAJOR/MINOR BRIDGE

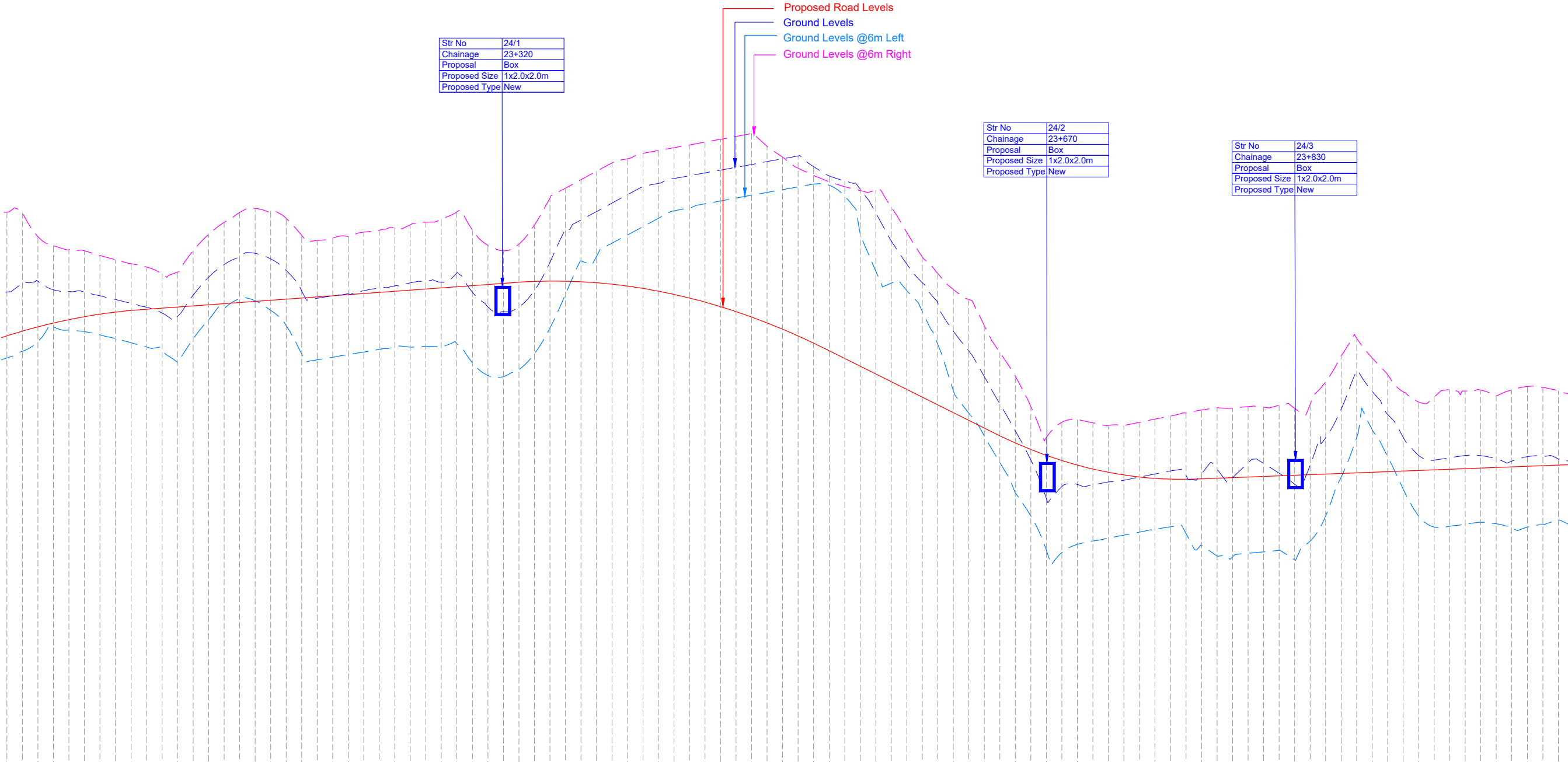
PROFILE:-

PROP.ROAD LEVEL

EXISTING GROUND LEVEL

GROUND LEVEL @6M LEFT

GROUND LEVEL @6M RIGHT



DATUM = 770	
Proposed Road Levels	797.652, 797.956, 798.231, 798.478, 798.697, 798.887, 799.049, 799.183, 799.288, 799.367, 799.440, 799.512, 799.585, 799.657, 799.730, 799.802, 799.875, 799.947, 800.020, 800.093, 800.165, 800.238, 800.310, 800.383, 800.455, 800.528, 800.600, 800.673, 800.746, 800.818, 800.891, 800.963, 801.036, 801.107, 801.157, 801.179, 801.172, 801.136, 801.072, 800.979, 800.858, 800.708, 800.530, 800.323, 800.088, 799.824, 799.531, 799.210, 798.861, 798.483, 798.076, 797.641, 797.177, 796.686, 796.188, 795.690, 795.191, 794.693, 794.195, 793.697, 793.198, 792.700, 792.202, 791.704, 791.209, 790.748, 790.329, 799.952, 789.615, 789.320, 789.066, 788.853, 788.681, 788.551, 788.462, 788.408, 788.439, 788.477, 788.515, 788.553, 788.591, 788.630, 788.668, 788.706, 788.744, 788.782, 788.820, 788.859, 788.897, 788.935, 788.973, 789.011, 789.049, 789.087, 789.126, 789.164, 789.202, 789.240, 789.278, 789.316, 789.354
Ground Levels	800.474, 801.077, 801.166, 800.622, 800.511, 800.462, 800.235, 799.981, 799.746, 799.494, 799.126, 798.912, 800.273, 800.435, 800.602, 800.768, 800.938, 801.104, 801.270, 801.436, 801.602, 801.768, 801.934, 802.100, 802.266, 802.432, 802.598, 802.764, 802.930, 803.096, 803.262, 803.428, 803.594, 803.760, 803.926, 804.092, 804.258, 804.424, 804.590, 804.756, 804.922, 805.088, 805.254, 805.420, 805.586, 805.752, 805.918, 806.084, 806.250, 806.416, 806.582, 806.748, 806.914, 807.080, 807.246, 807.412, 807.578, 807.744, 807.910, 808.076, 808.242, 808.408, 808.574, 808.740, 808.906, 809.072, 809.238, 809.404, 809.570, 809.736, 809.902, 810.068, 810.234, 810.400, 810.566, 810.732, 810.898, 811.064, 811.230, 811.396, 811.562, 811.728, 811.894, 812.060, 812.226, 812.392, 812.558, 812.724, 812.890, 813.056, 813.222, 813.388, 813.554, 813.720, 813.886, 814.052, 814.218, 814.384, 814.550, 814.716, 814.882, 815.048, 815.214, 815.380, 815.546, 815.712, 815.878, 816.044, 816.210, 816.376, 816.542, 816.708, 816.874, 817.040, 817.206, 817.372, 817.538, 817.704, 817.870, 818.036, 818.202, 818.368, 818.534, 818.700, 818.866, 819.032, 819.198, 819.364, 819.530, 819.696, 819.862, 820.028, 820.194, 820.360, 820.526, 820.692, 820.858, 821.024, 821.190, 821.356, 821.522, 821.688, 821.854, 822.020, 822.186, 822.352, 822.518, 822.684, 822.850, 823.016, 823.182, 823.348, 823.514, 823.680, 823.846, 824.012, 824.178, 824.344, 824.510, 824.676, 824.842, 825.008, 825.174, 825.340, 825.506, 825.672, 825.838, 826.004, 826.170, 826.336, 826.502, 826.668, 826.834, 826.999, 827.165, 827.331, 827.497, 827.663, 827.829, 827.995, 828.161, 828.327, 828.493, 828.659, 828.825, 828.991, 829.157, 829.323, 829.489, 829.655, 829.821, 829.987, 830.153, 830.319, 830.485, 830.651, 830.817, 830.983, 831.149, 831.315, 831.481, 831.647, 831.813, 831.979, 832.145, 832.311, 832.477, 832.643, 832.809, 832.975, 833.141, 833.307, 833.473, 833.639, 833.805, 833.971, 834.137, 834.303, 834.469, 834.635, 834.801, 834.967, 835.133, 835.299, 835.465, 835.631, 835.797, 835.963, 836.129, 836.295, 836.461, 836.627, 836.793, 836.959, 837.125, 837.291, 837.457, 837.623, 837.789, 837.955, 838.121, 838.287, 838.453, 838.619, 838.785, 838.951, 839.117, 839.283, 839.449, 839.615, 839.781, 839.947, 840.113, 840.279, 840.445, 840.611, 840.777, 840.943, 841.109, 841.275, 841.441, 841.607, 841.773, 841.939, 842.105, 842.271, 842.437, 842.603, 842.769, 842.935, 843.101, 843.267, 843.433, 843.599, 843.765, 843.931, 844.097, 844.263, 844.429, 844.595, 844.761, 844.927, 845.093, 845.259, 845.425, 845.591, 845.757, 845.923, 846.089, 846.255, 846.421, 846.587, 846.753, 846.919, 847.085, 847.251, 847.417, 847.583, 847.749, 847.915, 848.081, 848.247, 848.413, 848.579, 848.745, 848.911, 849.077, 849.243, 849.409, 849.575, 849.741, 849.907, 850.073, 850.239, 850.405, 850.571, 850.737, 850.903, 851.069, 851.235, 851.401, 851.567, 851.733, 851.899, 852.065, 852.231, 852.397, 852.563, 852.729, 852.895, 853.061, 853.227, 853.393, 853.559, 853.725, 853.891, 854.057, 854.223, 854.389, 854.555, 854.721, 854.887, 855.053, 855.219, 855.385, 855.551, 855.717, 855.883, 856.049, 856.215, 856.381, 856.547, 856.713, 856.879, 857.045, 857.211, 857.377, 857.543, 857.709, 857.875, 858.041, 858.207, 858.373, 858.539, 858.705, 858.871, 859.037, 859.203, 859.369, 859.535, 859.701, 859.867, 859.999, 860.165, 860.331, 860.497, 860.663, 860.829, 860.995, 861.161, 861.327, 861.493, 861.659, 861.825, 861.991, 862.157, 862.323, 862.489, 862.655, 862.821, 862.987, 863.153, 863.319, 863.485, 863.651, 863.817, 863.983, 864.149, 864.315, 864.481, 864.647, 864.813, 864.979, 865.145, 865.311, 865.477, 865.643, 865.809, 865.975, 866.141, 866.307, 866.473, 866.639, 866.805, 866.971, 867.137, 867.303, 867.469, 867.635, 867.801, 867.967, 868.133, 868.299, 868.465, 868.631, 868.797, 868.963, 869.129, 869.295, 869.461, 869.627, 869.793, 869.959, 870.125, 870.291, 870.457, 870.623, 870.789, 870.955, 871.121, 871.287, 871.453, 871.619, 871.785, 871.951, 872.117, 872.283, 872.449, 872.615, 872.781, 872.947, 873.113, 873.279, 873.445, 873.611, 873.777, 873.943, 874.109, 874.275, 874.441, 874.607, 874.773, 874.939, 875.105, 875.271, 875.437, 875.603, 875.769, 875.935, 876.101, 876.267, 876.433, 876.599, 876.765, 876.931, 877.097, 877.263, 877.429, 877.595, 877.761, 877.927, 878.093, 878.259, 878.425, 878.591, 878.757, 878.923, 879.089, 879.255, 879.421, 879.587, 879.753, 879.919, 880.085, 880.251, 880.417, 880.583, 880.749, 880.915, 881.081, 881.247, 881.413, 881.579, 881.745, 881.911, 882.077, 882.243, 882.409, 882.575, 882.741, 882.907, 883.073, 883.239, 883.405, 883.571, 883.737, 883.903, 884.069, 884.235, 884.401, 884.567, 884.733, 884.899, 885.065, 885.231, 885.397, 885.563, 885.729, 885.895, 886.061, 886.227, 886.393, 886.559, 886.725, 886.891, 887.057, 887.223, 887.389, 887.555, 887.721, 887.887, 888.053, 888.219, 888.385, 888.551, 888.717, 888.883, 889.049, 889.215, 889.381, 889.547, 889.713, 889.879, 890.045, 890.211, 890.377, 890.543, 890.709, 890.875, 891.041, 891.207, 891.373, 891.539, 891.705, 891.871, 892.037, 892.203, 892.369, 892.535, 892.701, 892.867, 893.033, 893.199, 893.365, 893.531, 893.697, 893.863, 894.029, 894.195, 894.361, 894.527, 894.693, 894.859, 895.025, 895.191, 895.357, 895.523, 895.689, 895.855, 896.021, 896.187, 896.353, 896.519, 896.685, 896.851, 897.017, 897.183, 897.349, 897.515, 897.681, 897.847, 898.013, 898.179, 898.345, 898.511, 898.677, 898.843, 899.009, 899.175, 899.341, 899.507, 899.673, 899.839, 900.005, 900.171, 900.337, 900.503, 900.669, 900.835, 900.999, 901.165, 901.331, 901.497, 901.663, 901.829, 901.995, 902.161, 902.327, 902.493, 902.659, 902.825, 902.991, 903.157, 903.323, 903.489, 903.655, 903.821, 903.987, 904.153, 904.319, 904.485, 904.651, 904.817, 904.983, 905.149, 905.315, 905.481, 905.647, 905.813, 905.979, 906.145, 906.311, 906.477, 906.643, 906.809, 906.975, 907.141, 907.307, 907.473, 907.639, 907.805, 907.971, 908.137, 908.303, 908.469, 908.635, 908.801, 908.967, 909.133, 909.299, 909.465, 909.631, 909.797, 909.963, 910.129, 910.295, 910.461, 910.627, 910.793, 910.959, 911.125, 911.291, 911.457, 911.623, 911.789, 911.955, 912.121, 912.287, 912.453, 912.619, 912.785, 912.951, 913.117, 913.283, 913.449, 913.615, 913.781, 913.947, 914.113, 914.279, 914.445, 914.611, 914.777, 914.943, 915.109, 915.275, 915.441, 915.607, 915.773, 915.939, 916.105, 916.271, 916.437, 916.603, 916.769, 916.935, 917.101, 917.267, 917.433, 917.599, 917.765, 917.931, 918.097, 918.263, 918.429, 918.595, 918.761, 918.927, 919.093, 919.259, 919.425, 919.591, 919.757, 919.923, 920.089, 920.255, 920.421, 920.587, 920.753, 920.919, 921.085, 921.251, 921.417, 921.583, 921.749, 921.915, 922.081, 922.247, 922.413, 922.579, 922.745, 922.911, 923.077, 923.243, 923.409, 923.575, 923.741, 923.907, 924.073, 924.239, 924.405, 924.571, 924.737, 924.903, 925.069, 925.235, 925.401, 925.567, 925.733, 925.899, 926.065, 926.231, 926.397, 926.563, 926.729, 926.895, 927.061, 927.227, 927.393, 927.559, 927.725, 927.891, 928.057, 928.223, 928.389, 928.555, 928.721, 928.887, 929.053, 929.219, 929.385, 929.551, 929.717, 929.883, 930.049, 930.215, 930.381, 930.547, 930.713, 930.879, 931.045, 931.211, 931.377, 931.543, 931.709, 931.875, 932.041, 932.207, 932.373, 932.539, 932.705, 932.871, 933.037, 933.203, 933.369, 933.535, 933.701, 933.867, 934.033, 934.199, 934.365, 934.531, 934.697, 934.863, 935.029, 935.195, 935.361, 935.527, 935.693, 935.859, 936.025, 936.191, 936.357, 936.523, 936.689, 936.855, 937.021, 937.187, 937.353, 937.519, 937.685, 937.851, 938.017, 938.183, 938.349, 938.515, 938.681, 938.847, 939.013, 939.179, 939.345, 939.511, 939.677, 939.843, 939.999, 940.165, 940.331, 940.497, 940.663, 940.829, 940.995, 941.161, 941.327, 941.493, 941.659, 941.825, 941.991, 942.157, 942.323, 942.489, 942.655, 942.821, 942.987, 943.153, 943.319, 943.485, 943.651, 943.817, 943.983, 944.149, 944.315, 944.481, 944.647, 944.813, 944.979, 945.145, 945.311, 945.477, 945.643, 945.809, 945.975, 946.141, 946.307, 946.473, 946.639, 946.805, 946.971, 947.137, 947.303, 947.469, 947.635, 947.801, 947.967, 948.133, 948.299, 948.465, 948.631, 948.797, 948.963, 949.129, 949.295, 949.461, 949.627, 949.793, 949.959, 950.125, 950.291, 950.457, 950.623, 950.789, 950.955, 951.121, 951.287, 951.453, 951.619, 951.785, 951.951, 952.117, 952.283, 952.449, 952.615, 952.781, 952.947, 953.113, 953.279, 953.445, 953.611, 953.777, 953.943, 954.109, 954.275, 954.441, 954.607, 954.773, 954.939, 955.105, 955.271, 955.437, 955.603, 955.769, 955.935, 956.101, 956.267, 956.433, 956.599, 956.765, 956.931, 957.097, 957.263, 957.429, 957.595, 957.761, 957.927, 958.093, 958.259, 958.425, 958.591, 958.757, 958.923, 959.089, 959.255, 959.421, 959.587, 959.753, 959.919, 960.085, 960.251, 960.417, 960.583, 960.749, 960.915, 961.081, 961.247, 961.413, 961.579, 961.745, 961.911, 962.077, 962.243, 962.409, 962.575, 962.741, 962.907, 963.073, 963.239, 963.405, 963.571, 963.737, 963.903, 964.069, 964.235, 964.401, 964.567, 964.733, 964.899, 965.065, 965.231, 965.397, 965.563, 965.729, 965.895, 966.061, 966.227, 966.393, 966.559, 966.725, 966.891, 967.057, 967.223, 967.389, 967.555, 967.721, 967.887, 968.053, 968.219, 968.385, 968.551, 968.717, 968.883, 969.049, 969.215, 969.381, 969.547, 969.713, 969.879, 969.999, 970.165, 970.331, 970.497, 970.663, 970.829, 970.995, 971.161, 971.327, 971.493, 971.659, 971.825, 971.991, 972.157, 972.323, 972.489, 972.655, 972.821, 972.987, 973.153, 973.319, 973.485, 973.651, 973.817, 973.983, 974.149, 974.315, 974.481, 974.647, 974.813, 974.979, 975.145, 975.311, 975.477, 975.643, 975.809, 975.975, 976.141, 976.307, 976.473, 976.639, 976.805, 976.971, 977.137, 977.303, 977.469, 977.635, 977.801, 977.967, 978.133, 978.299, 978.465, 978.631, 978.797, 978.963, 979.129, 979.295, 979.461, 979.627, 979.793, 979.959, 980.125, 980.291, 980.457, 980.623, 980.789, 980.955, 981.121, 981.287, 981.453, 981.619, 981.785, 981.951, 982.117, 982.283, 982.449, 982.615, 982.781, 982.947, 983.113, 983.279, 983.445, 983.611, 983.777, 983.943, 984.109, 984.275, 984.441, 984.607, 984.773, 984.939, 985.105, 985.271, 985.437, 985.603, 985.769, 985.935, 986.101, 986.267, 986.433, 986.599, 986.765, 986.931, 987.097, 987.263, 987.429, 987.595, 987.761, 987.927, 988.093, 988.259, 988.425, 988.591, 988.757, 988.923, 989.089, 989.255, 989.421, 989.587, 989.753, 989.919, 990.085, 990.251, 990.417, 990.583, 990.749, 990.915, 991.081, 991.247, 991.413, 991.579, 991.745, 991.911, 992.077, 992.243, 992.409, 992.575, 992.741, 992.907, 993.073, 993.239, 993.405, 993.571, 993.737, 993.903, 994.069, 994.235, 994.401, 994.567, 994.733, 994.899, 995.065, 995.231, 995.397, 995.563, 995.729, 995.895, 996.061, 996.227, 996.393, 996.559, 996.725, 996.891, 997.057, 997.223, 997.389, 997.555, 997.721, 997.887

LEGEND

PLAN:-

PROP.CENTER LINE

PROP.CARRIAGEWAY EDGE

PROP.EARTHEN SHOULDER

TOE LINE

PROP.RIGHT OF WAY

CULVERT

MAJOR/MINOR BRIDGE

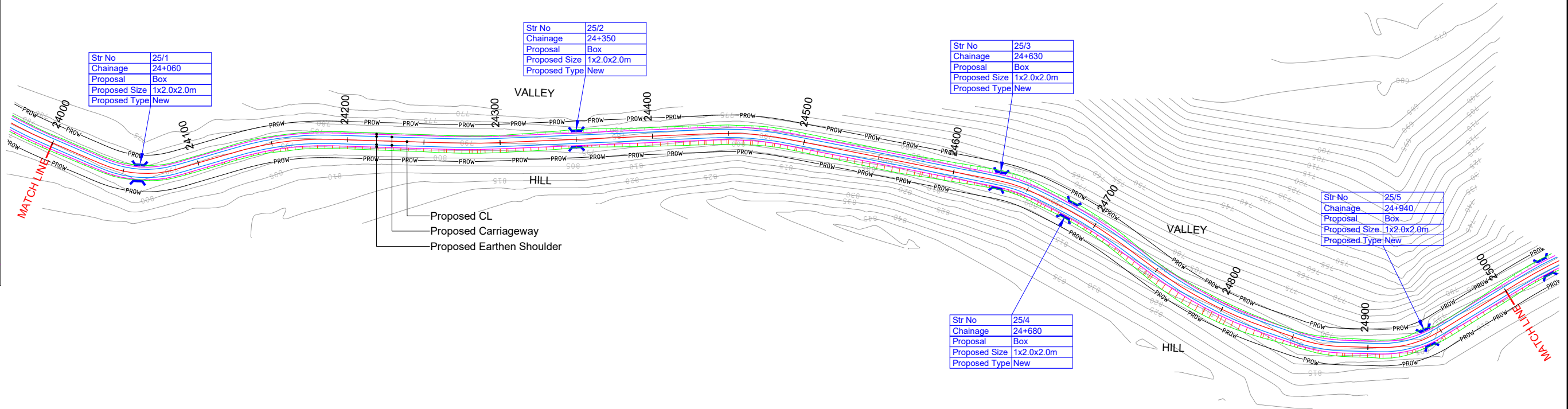
PROFILE:-

PROP.ROAD LEVEL

EXISTING GROUND LEVEL

GROUND LEVEL @6M LEFT

GROUND LEVEL @6M RIGHT



HIP NO. 179 AT CH. 24060.922				HIP NO. 180 AT CH. 24158.387				HIP NO. 181 AT CH. 24281.584				HIP NO. 182 AT CH. 24465.018				HIP NO. 183 AT CH. 24642.676				HIP NO. 184 AT CH. 24696.584				HIP NO. 185 AT CH. 24790.001				HIP NO. 186 AT CH. 24868.151				HIP NO. 187 AT CH. 24928.157			
X = 661648.69		Y = 3193487.782		X = 661551.294		Y = 3193496.662		X = 661435.832		Y = 3193539.826		X = 661260.601		Y = 3193594.174		X = 661107.517		Y = 3193684.324		X = 661069.425		Y = 3193722.544		X = 661017.057		Y = 3193800.385		X = 660955.502		Y = 3193849.261		X = 660898.804		Y = 3193870.964	
R (m)	70	Ls (m)	15	R (m)	200	Ls (m)	20	R (m)	500	Ls (m)		R (m)	200	Ls (m)	15	R (m)	90	Ls (m)	15	R (m)	300	Ls (m)		R (m)	270	Ls (m)		R (m)	100	Ls (m)		R (m)	70	Ls (m)	
Dc(deg)	27.3317	S(m)	0.13	Dc(deg)	12.4335	S(m)	0.08	Dc(deg)	4.1746	S(m)		Dc(deg)	9.2086	S(m)	0.05	Dc(deg)	5.9097	S(m)	0.1	Dc(deg)	10.1202	S(m)		Dc(deg)	17.6187	S(m)		Dc(deg)	17.5044	S(m)		Dc(deg)	33.1292	S(m)	
Lc(m)	33.39	Ts(deg)	6.1388	Lc(m)	43.4	Ts(deg)	2.8648	Lc(m)	36.43	Ts(deg)		Lc(m)	32.14	Ts(deg)	2.1486	Lc(m)	9.28	Ts(deg)	4.7746	Lc(m)	52.99	Ts(deg)		Lc(m)	83.03	Ts(deg)		Lc(m)	30.55	Ts(deg)		Lc(m)	40.47	Ts(deg)	
Ts(m)	32.752	Δ(deg)	39.6094	Ts(m)	41.981	Δ(deg)	18.163	Ts(m)	18.223	Δ(deg)	4.1746	Ts(m)	31.187	Δ(deg)	13.5058	Ts(m)	19.728	Δ(deg)	15.459	Ts(m)	26.564	Δ(deg)	10.1202	Ts(m)	41.843	Δ(deg)	17.6187	Ts(m)	15.395	Δ(deg)	17.5044	Ts(m)	20.821	Δ(deg)	33.1292
Es(m)	4.539	e(%)	10.00%	Es(m)	2.62	e(%)	5.56%	Es(m)	0.332	e(%)	-2.50%	Es(m)	1.448	e(%)	5.56%	Es(m)	0.926	e(%)	7.90%	Es(m)	1.174	e(%)	3.70%	Es(m)	3.223	e(%)	4.12%	Es(m)	1.178	e(%)	10.00%	Es(m)	3.031	e(%)	10.00%
V(km/hr)	40	We(m)	0.9	V(km/hr)	50	We(m)	0.6	V(km/hr)	50	We(m)	Nil	V(km/hr)	50	We(m)	0.6	V(km/hr)	40	We(m)	0.9	V(km/hr)	50	We(m)	0.6	V(km/hr)	50	We(m)	0.6	V(km/hr)	50	We(m)	0.9	V(km/hr)	40	We(m)	0.9
CurveType	LEFT			CurveType	RIGHT			CurveType	LEFT			CurveType	RIGHT			CurveType	RIGHT			CurveType	RIGHT			CurveType	LEFT			CurveType	LEFT			CurveType	LEFT		

R7	AUG 2023	FINAL DPR
R6	JAN 2023	MODIFIED DETAILED PROJECT REPORT
R5	JULY 2022	MODIFIED DETAILED PROJECT REPORT
R4	AUG 2019	MODIFIED DETAILED PROJECT REPORT
R3	JULY 2018	DETAILED PROJECT REPORT
REV.	DATE	DESCRIPTION OF REVISIONS

CLIENT:



National Highways & Infrastructure Development Corporation Limited.
3rd Floor, PTI building, 4-Parliament Street, New Delhi-110001

PROJECT:

Consultancy Services for Preparation of Feasibility study and Detailed Project Report for Two laning of Pango to Jorging Road (Length - 90km) for execution on EPC Mode in the state of Arunachal Pradesh under SARDP-NE Phase 'B'

DPR CONSULTANT:



Shweta Technophile Consultants Pvt. Ltd.
(222-223,313, Rajhans Plaza, Ahinsa Khand-I, Indirapuram, Ghaziabad, UP-201014)

DRAWN BY	ASHISH RAWAT
DESIGN BY	RAM SONKAR
CHECKED BY	GEETA JINDAL
HORIZONTAL SCALE 1:2000	VERTICAL SCALE 1:200

TITLE:

PLAN AND PROFILE
FROM CH:24+000 TO CH:25+000

DRAWING NO.
NHIDCL/PANGO-JORGING/STC/PP- 46

A3

PLAN:-

PROFILE:-

Str No	25/5
Chainage	24+940
Proposal	Box
Proposed Size	1x2.0x2.0m
Proposed Type	New

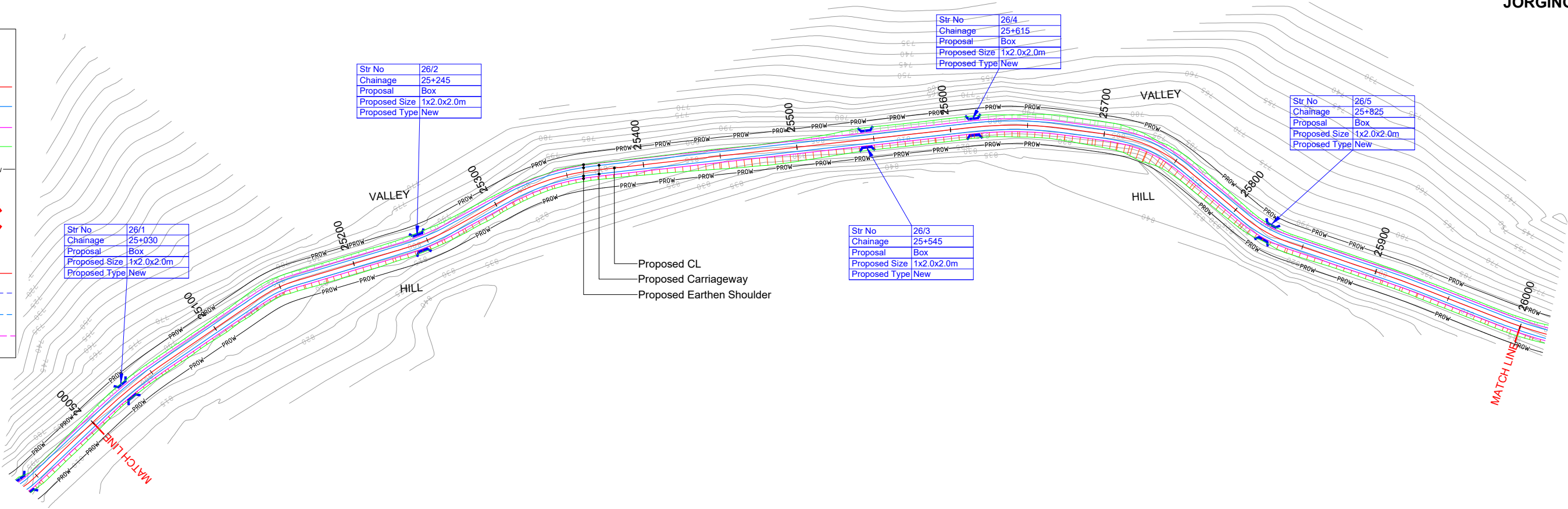
DRAWING NO.

WHIDCL/PANGO-JORGING/STC/PP- 46

LEGEND

PLAN:-
PROP.CENTER LINE
PROP.CARRIAGEWAY EDGE
PROP.EARTHEN SHOULDER
TOE LINE
PROP.RIGHT OF WAY
CULVERT
MAJOR/MINOR BRIDGE

PROFILE:-
PROP.ROAD LEVEL
EXISTING GROUND LEVEL
GROUND LEVEL @6M LEFT
GROUND LEVEL @6M RIGHT



HIP NO. 188 AT CH. 25033.89				HIP NO. 189 AT CH. 25147.531				HIP NO. 190 AT CH. 25250.017				HIP NO. 191 AT CH. 25338.501				HIP NO. 192 AT CH. 25643.808				HIP NO. 193 AT CH. 25730.549				HIP NO. 194 AT CH. 25824.728				HIP NO. 195 AT CH. 25918.407			
X = 660794.832	Y = 3193848.517			X = 660681.285	Y = 3193843.403			X = 660581.795	Y = 3193867.883			X = 660493.388	Y = 3193874.016			X = 660215.569	Y = 3194001.302			X = 660150.054	Y = 3194058.336			X = 660116.616	Y = 3194146.535			X = 660056.221	Y = 3194218.396		
R (m)	300	Ls (m)		R (m)	70	Ls (m)	15	R (m)	150	Ls (m)	15	R (m)	150	Ls (m)	15	R (m)	250	Ls (m)		R (m)	90	Ls (m)	25	R (m)	90	Ls (m)		R (m)	500	Ls (m)	
Dc(deg)	9.1555	S(m)		Dc(deg)	5.4415	S(m)	0.13	Dc(deg)	6.2838	S(m)	0.06	Dc(deg)	16.4584	S(m)	0.06	Dc(deg)	14.2609	S(m)		Dc(deg)	15.9581	S(m)	0.29	Dc(deg)	21.0447	S(m)		Dc(deg)	2.8146	S(m)	
Lc(m)	47.94	Ts(deg)		Lc(m)	6.65	Ts(deg)	6.1388	Lc(m)	16.45	Ts(deg)	2.8648	Lc(m)	43.09	Ts(deg)	2.8648	Lc(m)	62.22	Ts(deg)		Lc(m)	25.07	Ts(deg)	7.9577	Lc(m)	33.06	Ts(deg)		Lc(m)	24.56	Ts(deg)	
Ts(m)	24.02	Δ(deg)	9.1555	Ts(m)	18.428	Δ(deg)	17.7191	Ts(m)	23.289	Δ(deg)	12.0134	Ts(m)	36.924	Δ(deg)	22.188	Ts(m)	31.274	Δ(deg)	14.2609	Ts(m)	38.274	Δ(deg)	31.8736	Ts(m)	16.717	Δ(deg)	21.0447	Ts(m)	12.283	Δ(deg)	2.8146
Es(m)	0.96	e(%)	3.70%	Es(m)	0.977	e(%)	10.00%	Es(m)	0.888	e(%)	7.41%	Es(m)	2.918	e(%)	7.41%	Es(m)	1.949	e(%)	4.44%	Es(m)	3.899	e(%)	7.90%	Es(m)	1.539	e(%)	7.90%	Es(m)	0.151	e(%)	-2.50%
V(km/hr)	50	We(m)	0.6	V(km/hr)	40	We(m)	0.9	V(km/hr)	50	We(m)	0.6	V(km/hr)	50	We(m)	0.6	V(km/hr)	50	We(m)	0.6	V(km/hr)	40	We(m)	0.9	V(km/hr)	40	We(m)	0.9	V(km/hr)	50	We(m)	Nil
CurveType	RIGHT			CurveType	RIGHT			CurveType	LEFT			CurveType	RIGHT			CurveType	RIGHT			CurveType	RIGHT			CurveType	LEFT			CurveType	RIGHT		

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CLIENT:



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DPR CONSULTANT:



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DRAWN BY	ASHISH RAWAT
DESIGN BY	RAM SONKAR
CHECKED BY	GEETA JINDAL
HORIZONTAL SCALE 1:2000	VERTICAL SCALE 1:200

TITLE:

PLAN AND PROFILE
FROM CH:25+000 TO CH:26+000

DRAWING NO.
NHIDCL/PANGO-JORGING/STC/PP- 47

A3

LEGEND

PLAN:-

PROP.CENTER LINE

PROP.CARRIAGEWAY EDGE

PROP.EARTHEN SHOULDER

TOE LINE

PROP.RIGHT OF WAY

CULVERT

MAJOR/MINOR BRIDGE

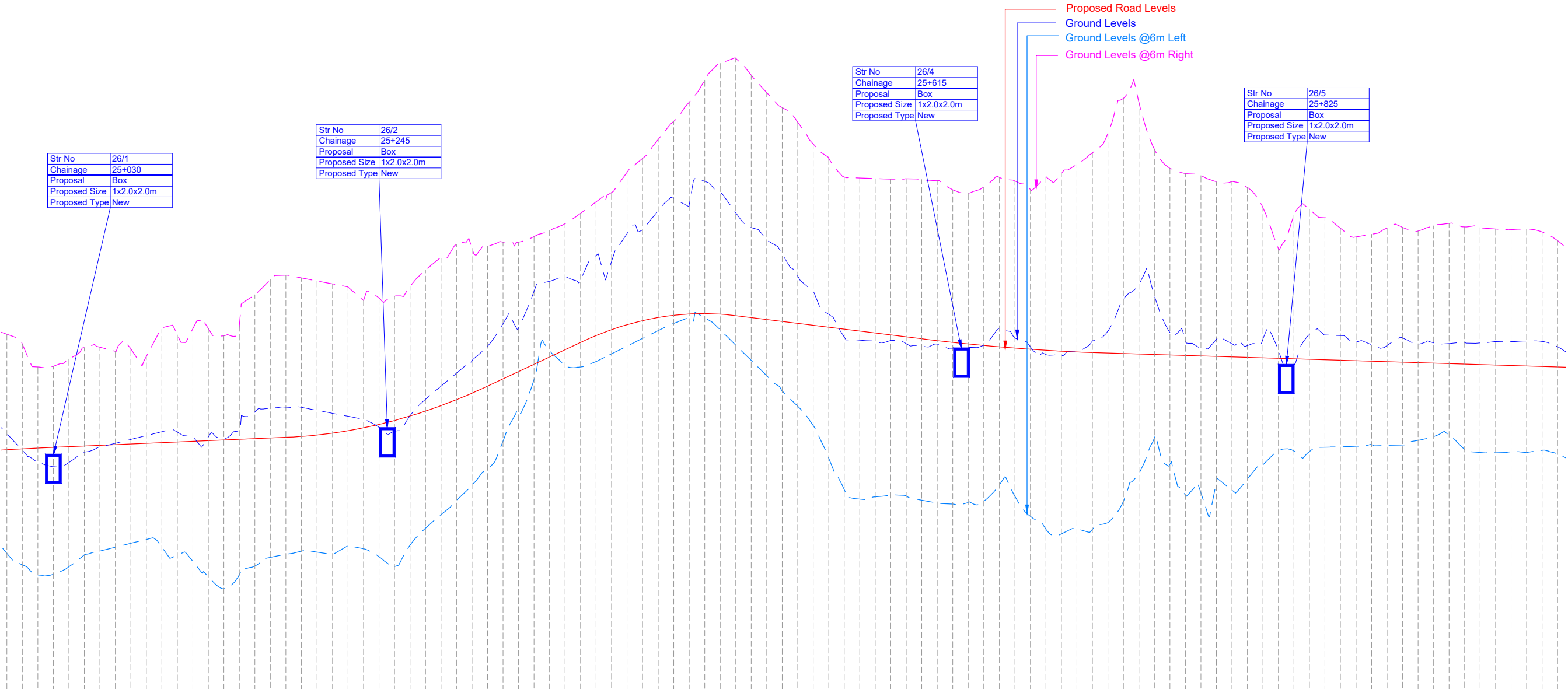
PROFILE:-

PROP.ROAD LEVEL

EXISTING GROUND LEVEL

GROUND LEVEL @6M LEFT

GROUND LEVEL @6M RIGHT



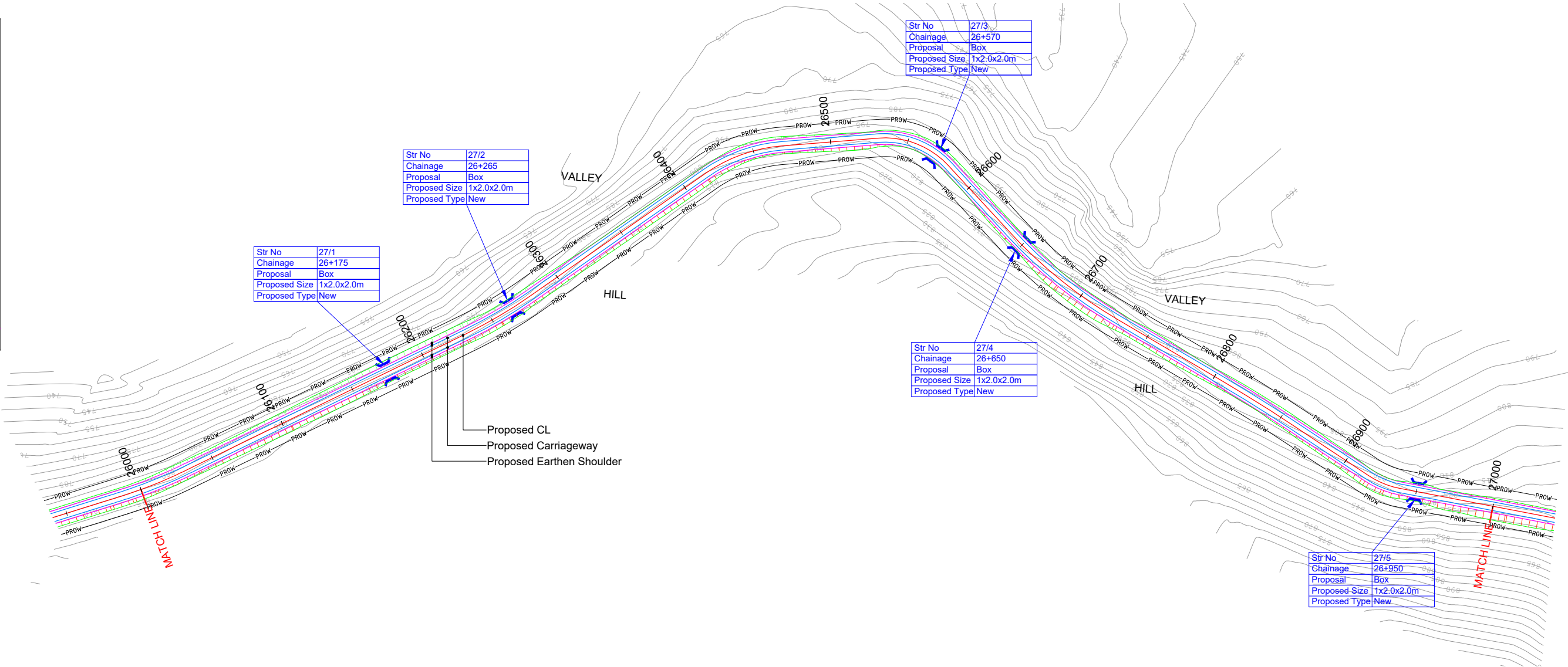
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Chainage	-25000.000 -25010.000 -25020.000 -25030.000 -25040.000 -25050.000 -25060.000 -25070.000 -25080.000 -25090.000 -25100.000 -25110.000 -25120.000 -25130.000 -25140.000 -25150.000 -25160.000 -25170.000 -25180.000 -25190.000 -25200.000 -25210.000 -25220.000 -25230.000 -25240.000 -25250.000 -25260.000 -25270.000 -25280.000 -25290.000 -25300.000 -25310.000 -25320.000 -25330.000 -25340.000 -25350.000 -25360.000 -25370.000 -25380.000 -25390.000 -25400.000 -25410.000 -25420.000 -25430.000 -25440.000 -25450.000 -25460.000 -25470.000 -25480.000 -25490.000 -25500.000 -25510.000 -25520.000 -25530.000 -25540.000 -25550.000 -25560.000 -25570.000 -25580.000 -25590.000 -25600.000 -25610.000 -25620.000 -25630.000 -25640.000 -25650.000 -25660.000 -25670.000 -25680.000 -25690.000 -25700.000 -25710.000 -25720.000 -25730.000 -25740.000 -25750.000 -25760.000 -25770.000 -25780.000 -25790.000 -25800.000 -25810.000 -25820.000 -25830.000 -25840.000 -25850.000 -25860.000 -25870.000 -25880.000 -25890.000 -25900.000 -25910.000 -25920.000 -25930.000 -25940.000 -25950.000 -25960.000 -25970.000 -25980.000 -25990.000 -26000.000	
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LEGEND

PLAN:-
PROP.CENTER LINE
PROP.CARRIAGEWAY EDGE
PROP.EARTHEN SHOULDER
TOE LINE
PROP.RIGHT OF WAY
CULVERT
MAJOR/MINOR BRIDGE

PROFILE:-
PROP.ROAD LEVEL
EXISTING GROUND LEVEL
GROUND LEVEL @6M LEFT
GROUND LEVEL @6M RIGHT



HIP NO. 196 AT CH. 26008.184				HIP NO. 197 AT CH. 26255.135				HIP NO. 198 AT CH. 26442.401				HIP NO. 199 AT CH. 26555.608				HIP NO. 200 AT CH. 26683.699				HIP NO. 201 AT CH. 26832.633				HIP NO. 202 AT CH. 26928.445			
X = 660001.496	Y = 3194289.579			X = 659824.444	Y = 3194461.816			X = 659670.673	Y = 3194569.9			X = 659622.756	Y = 3194675.217			X = 659682.771	Y = 3194790.834			X = 659710.221	Y = 3194937.549			X = 659732.948	Y = 3195030.783		
R (m)	300	Ls (m)	15	R (m)	300	Ls (m)		R (m)	100	Ls (m)		R (m)	55	Ls (m)		R (m)	300	Ls (m)		R (m)	1000	Ls (m)		R (m)	55	Ls (m)	
Dc(deg)	5.8119	S(m)	0.03	Dc(deg)	8.9905	S(m)		Dc(deg)	30.4327	S(m)		Dc(deg)	51.8975	S(m)		Dc(deg)	16.8364	S(m)		Dc(deg)	3.1026	S(m)		Dc(deg)	22.7162	S(m)	
Lc(m)	30.43	Ts(deg)	1.4324	Lc(m)	47.07	Ts(deg)		Lc(m)	53.11	Ts(deg)		Lc(m)	49.82	Ts(deg)		Lc(m)	88.16	Ts(deg)		Lc(m)	54.15	Ts(deg)		Lc(m)	21.81	Ts(deg)	
Ts(m)	30.261	Δ(deg)	8.6767	Ts(m)	23.585	Δ(deg)	8.9905	Ts(m)	27.2	Δ(deg)	30.4327	Ts(m)	26.764	Δ(deg)	51.8975	Ts(m)	44.397	Δ(deg)	16.8364	Ts(m)	27.082	Δ(deg)	3.1026	Ts(m)	11.048	Δ(deg)	22.7162
Es(m)	0.892	e(%)	3.70%	Es(m)	0.926	e(%)	3.70%	Es(m)	3.633	e(%)	10.00%	Es(m)	6.166	e(%)	10.00%	Es(m)	3.267	e(%)	3.70%	Es(m)	0.367	e(%)	-2.50%	Es(m)	1.099	e(%)	10.00%
V(km/hr)	50	We(m)	0.6	V(km/hr)	50	We(m)	0.6	V(km/hr)	50	We(m)	0.9	V(km/hr)	40	We(m)	1.2	V(km/hr)	50	We(m)	0.6	V(km/hr)	50	We(m)	Nil	V(km/hr)	40	We(m)	1.2
CurveType	LEFT			CurveType	LEFT			CurveType	RIGHT			CurveType	RIGHT			CurveType	LEFT			CurveType	RIGHT			CurveType	LEFT		

R7	AUG 2023	FINAL DPR
R6	JAN 2023	MODIFIED DETAILED PROJECT REPORT
R5	JULY 2022	MODIFIED DETAILED PROJECT REPORT
R4	AUG 2019	MODIFIED DETAILED PROJECT REPORT
R3	JULY 2018	DETAILED PROJECT REPORT
REV.	DATE	DESCRIPTION OF REVISIONS

CLIENT:



National Highways & Infrastructure Development Corporation Limited.
3rd Floor, PTI building, 4-Parliament Street, New Delhi-110001

PROJECT:

Consultancy Services for Preparation of Feasibility study and Detailed Project Report for Two laning of Pango to Jorging Road (Length - 90km) for execution on EPC Mode in the state of Arunachal Pradesh under SARDP-NE Phase 'B'

DPR CONSULTANT:



Shweta Technophile Consultants Pvt. Ltd.
(222-223,313, Rajhans Plaza, Ahinsa Khand-I, Indrapuram, Ghaziabad, UP-201014)

DRAWN BY	ASHISH RAWAT
DESIGN BY	RAM SONKAR
CHECKED BY	GEETA JINDAL
HORIZONTAL SCALE 1:2000	VERTICAL SCALE 1:200

TITLE:

PLAN AND PROFILE
FROM CH:26+000 TO CH:27+000

DRAWING NO.
NHIDCL/PANGO-JORGING/STC/PP- 49

A3

LEGEND

PLAN:-

PROP.CENTER LINE

PROP.CARRIAGEWAY EDGE

PROP.EARTHEN SHOULDER

TOE LINE

PROP.RIGHT OF WAY

CULVERT

MAJOR/MINOR BRIDGE

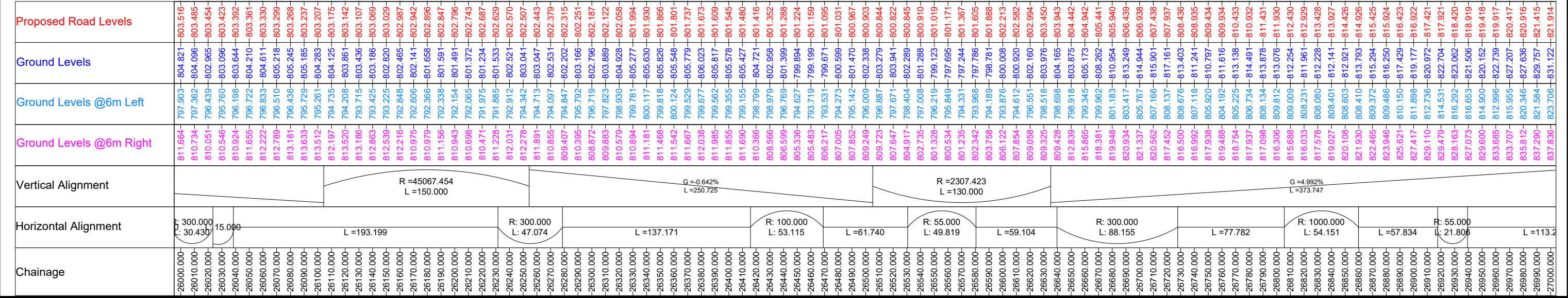
PROFILE:-

PROP.ROAD LEVEL

EXISTING GROUND LEVEL

GROUND LEVEL @6M LEFT

GROUND LEVEL @6M RIGHT



LEGEND

PLAN:-

PROP.CENTER LINE

PROP.CARRIAGEWAY EDGE

PROP.EARTHEN SHOULDER

TOE LINE

PROP.RIGHT OF WAY

CULVERT

MAJOR/MINOR BRIDGE

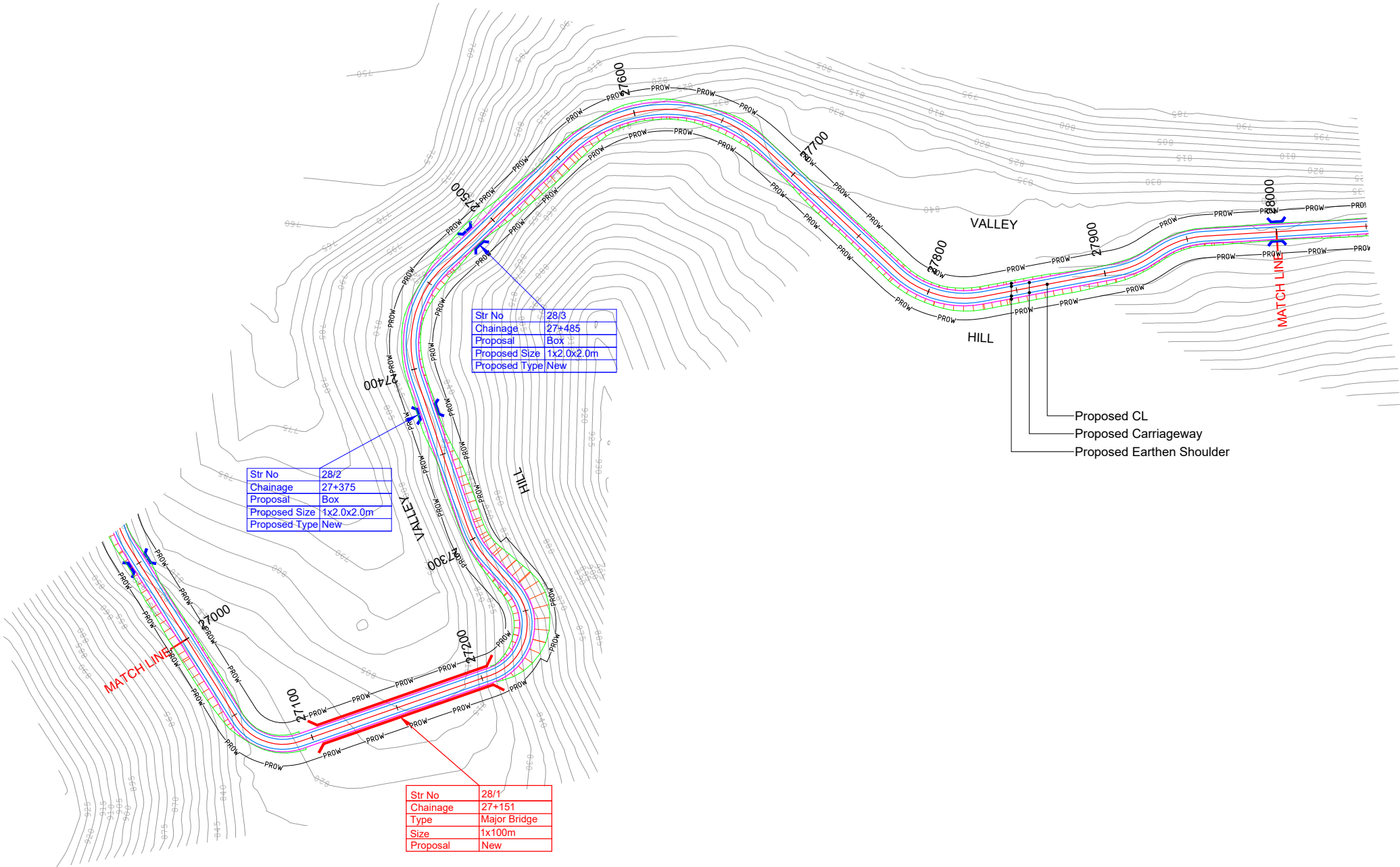
PROFILE:-

PROP.ROAD LEVEL

EXISTING GROUND LEVEL

GROUND LEVEL @6M LEFT

GROUND LEVEL @6M RIGHT



HIP NO. 203 AT CH. 27072.799				HIP NO. 204 AT CH. 27234.944				HIP NO. 205 AT CH. 27297.525				HIP NO. 206 AT CH. 27429.006				HIP NO. 207 AT CH. 27618.236				HIP NO. 208 AT CH. 27804.761				HIP NO. 209 AT CH. 27916.092				HIP NO. 210 AT CH. 27946.581			
X = 659709.721		Y = 3195177.164		X = 659528.54		Y = 3195189.599		X = 659554.201		Y = 3195115.426		X = 659544.115		Y = 3194979.873		X = 659348.592		Y = 3194907.62		X = 659266.817		Y = 3195094.024		X = 659155.882		Y = 3195118.329		X = 659125.423		Y = 3195113.052	
R (m)	30	Ls (m)		R (m)	30	Ls (m)		R (m)	55	Ls (m)		R (m)	60	Ls (m)		R (m)	80	Ls (m)		R (m)	55	Ls (m)		R (m)	55	Ls (m)		R (m)	50	Ls (m)	
Dc(deg)	77.0571	S(m)		Dc(deg)	113.0102	S(m)		Dc(deg)	23.3392	S(m)		Dc(deg)	65.4633	S(m)		Dc(deg)	86.594	S(m)		Dc(deg)	53.9549	S(m)		Dc(deg)	22.187	S(m)		Dc(deg)	29.395	S(m)	
Lc(m)	40.35	Ts(deg)		Lc(m)	59.17	Ts(deg)		Lc(m)	22.4	Ts(deg)		Lc(m)	68.55	Ts(deg)		Lc(m)	120.91	Ts(deg)		Lc(m)	51.79	Ts(deg)		Lc(m)	21.3	Ts(deg)		Lc(m)	25.65	Ts(deg)	
Ts(m)	23.887	Δ(deg)	77.0571	Ts(m)	45.334	Δ(deg)	113.0102	Ts(m)	11.36	Δ(deg)	23.3392	Ts(m)	38.566	Δ(deg)	65.4633	Ts(m)	75.38	Δ(deg)	86.594	Ts(m)	27.997	Δ(deg)	53.9549	Ts(m)	10.784	Δ(deg)	22.187	Ts(m)	13.115	Δ(deg)	29.395
Es(m)	8.349	e(%)	10.00%	Es(m)	24.361	e(%)	10.00%	Es(m)	1.161	e(%)	10.00%	Es(m)	11.326	e(%)	10.00%	Es(m)	29.919	e(%)	8.89%	Es(m)	6.716	e(%)	10.00%	Es(m)	1.047	e(%)	10.00%	Es(m)	1.691	e(%)	10.00%
V(km/hr)	30	We(m)	1.5	V(km/hr)	30	We(m)	1.5	V(km/hr)	40	We(m)	1.2	V(km/hr)	40	We(m)	1.2	V(km/hr)	40	We(m)	0.9	V(km/hr)	40	We(m)	1.2	V(km/hr)	40	We(m)	1.2	V(km/hr)	40	We(m)	1.2
CurveType	LEFT			CurveType	LEFT			CurveType	RIGHT			CurveType	RIGHT			CurveType	RIGHT			CurveType	LEFT			CurveType	LEFT			CurveType	RIGHT		

R7	AUG 2023	FINAL DPR
R6	JAN 2023	MODIFIED DETAILED PROJECT REPORT
R5	JULY 2022	MODIFIED DETAILED PROJECT REPORT
R4	AUG 2019	MODIFIED DETAILED PROJECT REPORT
R3	JULY 2018	DETAILED PROJECT REPORT
REV.	DATE	DESCRIPTION OF REVISIONS

CLIENT:



National Highways & Infrastructure Development Corporation Limited.
3rd Floor, PTI building, 4-Parliament Street, New Delhi-110001

PROJECT:

Consultancy Services for Preparation of Feasibility study and Detailed Project Report for Two laning of Pango to Jorging Road (Length - 90km) for execution on EPC Mode in the state of Arunachal Pradesh under SARDP-NE Phase 'B'

DPR CONSULTANT:



Shweta Technophile Consultants Pvt. Ltd.
(222-223,313, Rajhans Plaza, Ahinsa Khand-I, Indirapuram, Ghaziabad, UP-201014)

DRAWN BY	ASHISH RAWAT
DESIGN BY	RAM SONKAR
CHECKED BY	GEETA JINDAL
HORIZONTAL SCALE 1:2000	VERTICAL SCALE 1:200

TITLE:

PLAN AND PROFILE
FROM CH:27+000 TO CH:28+000

DRAWING NO.
NHIDCL/PANGO-JORGING/STC/PP- 51

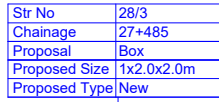
A3

PROP. ROAD LEVEL ————

EXISTING GROUND LEVEL - - - -

GROUND LEVEL @6M LEFT - - - -

GROUND LEVEL @6M RIGHT - - - -



7	AUG 2023	FINAL DPR	CLIENT:  National Highways & Infrastructure Development Corporation Limited. 3rd Floor, PTI building, 4-Parliament Street, New Delhi-110001	PROJECT: Consultancy Services for Preparation of Feasibility study and Detailed Project Report for Two laning of Pango to Jorging Road (Length - 90km) for execution on EPC Mode in the state of Arunachal Pradesh under SARDP-NE Phase 'B'	DPR CONSULTANT:  Shweta Technophile Consultants Pvt. Ltd. (222-223,313, Rajhans Plaza, Ahinsa Khand-I, Indirapuram, Ghaziabad, UP-201014)		DRAWN BY	ASHISH RAWAT	TITLE: PLAN AND PROFILE FROM CH:27+000 TO CH:28+000	
6	JAN 2023	MODIFIED DETAILED PROJECT REPORT					DESIGN BY	RAM SONKAR		
5	JULY 2022	MODIFIED DETAILED PROJECT REPORT					CHECKED BY	GEETA JINDAL		
4	AUG 2019	MODIFIED DETAILED PROJECT REPORT					HORIZONTAL SCALE	VERTICAL SCALE	DRAWING NO.	
3	JULY 2018	DETAILED PROJECT REPORT					1:2000	1:200	NHIDCL/PANGO-JORGING/STC/PP- 52	A3
2	DATE	DESCRIPTION OF REVISIONS								

LEGEND

PLAN:-

PROP.CENTER LINE

PROP.CARRIAGEWAY EDGE

PROP.EARTHEN SHOULDER

TOE LINE

PROP.RIGHT OF WAY

CULVERT

MAJOR/MINOR BRIDGE

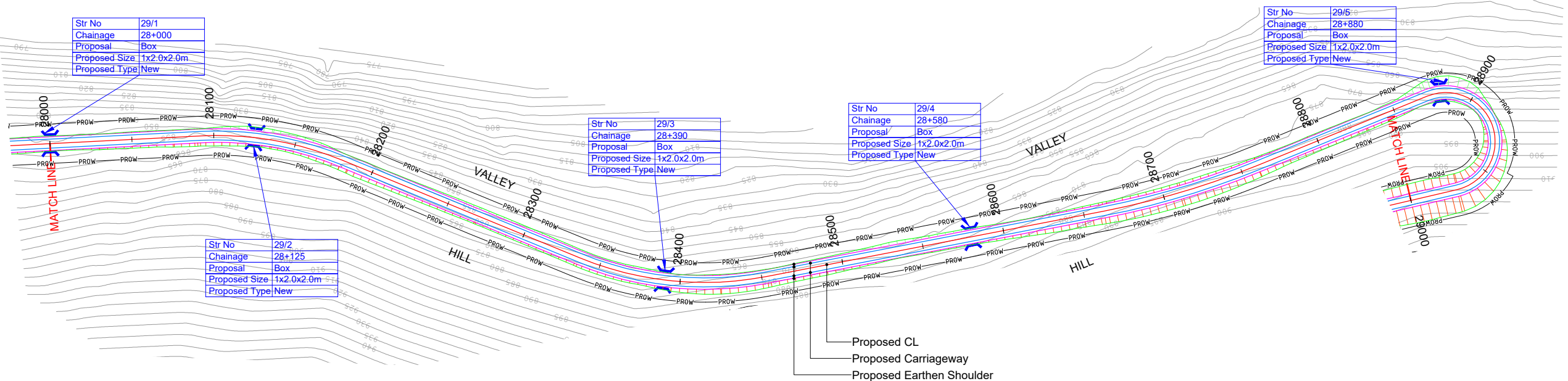
PROFILE:-

PROP.ROAD LEVEL

EXISTING GROUND LEVEL

GROUND LEVEL @6M LEFT

GROUND LEVEL @6M RIGHT



HIP NO. 211 AT CH. 28135.859				HIP NO. 212 AT CH. 28394.901				HIP NO. 213 AT CH. 28711.37				HIP NO. 214 AT CH. 28921.583			
X = 658946.111		Y = 3195176.783		X = 658760.881		Y = 3195361.332		X = 658449.018		Y = 3195425.143		X = 658666.859		Y = 3195423.893	
R (m)	200	Ls (m)		R (m)	200	Ls (m)		R (m)	500	Ls (m)		R (m)	30	Ls (m)	
Dc(deg)	25.3285	S(m)		Dc(deg)	33.331	S(m)		Dc(deg)	11.2349	S(m)		Dc(deg)	189.0588	S(m)	
Lc(m)	88.41	Ts(deg)		Lc(m)	116.35	Ts(deg)		Lc(m)	98.04	Ts(deg)		Lc(m)	98.99	Ts(deg)	
Ts(m)	44.941	Δ(deg)	25.3285	Ts(m)	59.872	Δ(deg)	33.331	Ts(m)	49.179	Δ(deg)	11.2349	Ts(m)	-378.698	Δ(deg)	189.0588
Es(m)	4.987	e(%)	5.56%	Es(m)	8.769	e(%)	5.56%	Es(m)	2.413	e(%)	-2.50%	Es(m)	-409.885	e(%)	10.00%
V(km/hr)	50	We(m)	0.6	V(km/hr)	50	We(m)	0.6	V(km/hr)	50	We(m)	Nil	V(km/hr)	30	We(m)	1.5
CurveType	RIGHT			CurveType	LEFT			CurveType	RIGHT			CurveType	LEFT		

R7	AUG 2023	FINAL DPR
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R5	JULY 2022	MODIFIED DETAILED PROJECT REPORT
R4	AUG 2019	MODIFIED DETAILED PROJECT REPORT
R3	JULY 2018	DETAILED PROJECT REPORT
REV.	DATE	DESCRIPTION OF REVISIONS

CLIENT:

National Highways & Infrastructure Development Corporation Limited.
3rd Floor, PTI building, 4-Parliament Street, New Delhi-11001

PROJECT:

Consultancy Services for Preparation of Feasibility study and Detailed Project Report for Two laning of Pango to Jorging Road (Length - 90km) for execution on EPC Mode in the state of Arunachal Pradesh under SARDP-NE Phase 'B'

DPR CONSULTANT:

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(222-223,313, Rajhans Plaza, Ahinsa Khand-I, Indirapuram, Ghaziabad, UP-201014)

DRAWN BY	ASHISH RAWAT
DESIGN BY	RAM SONKAR
CHECKED BY	GEETA JINDAL
HORIZONTAL SCALE 1:2000	VERTICAL SCALE 1:200

TITLE:

PLAN AND PROFILE
FROM CH:28+000 TO 29+000

DRAWING NO.
MORT&H/PANGO-JORGING/STC/PP-53

A3

LEGEND

PLAN:-

PROP.CENTER LINE

PROP.CARRIAGEWAY EDGE

PROP.EARTHEN SHOULDER

TOE LINE

PROP.RIGHT OF WAY

CULVERT

MAJOR/MINOR BRIDGE

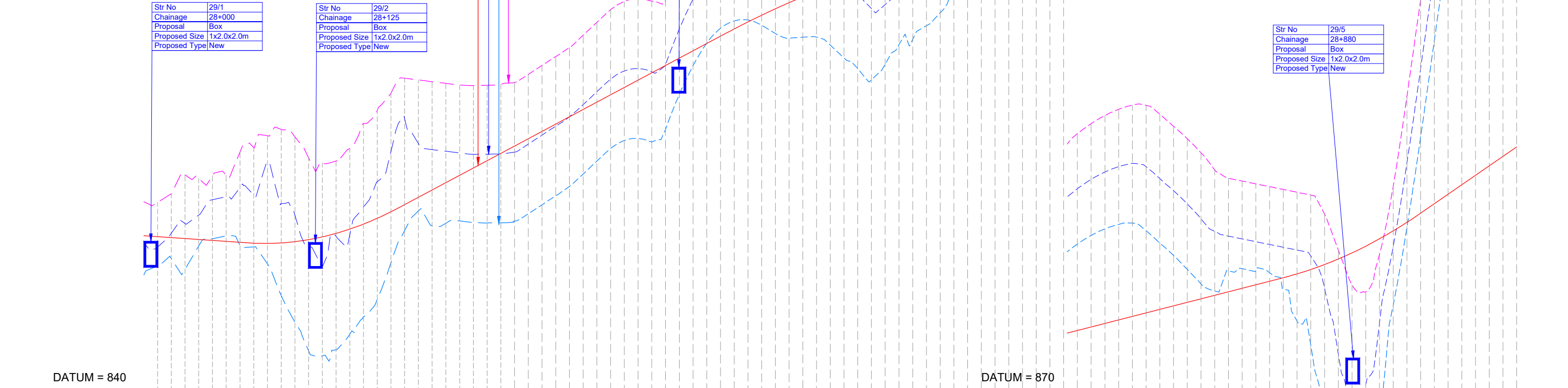
PROFILE:-

PROP.ROAD LEVEL

EXISTING GROUND LEVEL

GROUND LEVEL @6M LEFT

GROUND LEVEL @6M RIGHT



Proposed Road Levels	851.289 851.220 851.151 851.082 851.012 850.943 850.874 850.805 850.741 850.723 850.760 850.852 850.998 851.199 851.455 851.765 852.130 852.550 853.049 853.549 854.082 854.615 855.148 855.681 856.213 856.746 857.279 857.812 858.345 858.878 859.411 859.944 860.476 861.009 861.542 862.075 862.608 863.141 863.674 864.207 864.740 865.273 865.805 866.335 866.845 867.334 867.802 868.249 868.674 869.078 869.480 869.821 870.162 870.480 870.778 871.054 871.312 871.569 871.825 872.081 872.337 872.594 872.850 873.106 873.362 873.619 873.875 874.131 874.387 874.644 874.900 875.156 875.412 875.669 875.925 876.181 876.437 876.693 876.950 877.206 877.462 877.718 877.975 878.231 878.488 878.744 879.000 879.256 879.512 879.768 880.024 880.280 880.536 880.792 881.048 881.304 881.560 881.816 882.072 882.328 882.584 882.840 883.096 883.352 883.608 883.864 884.120 884.376 884.632 884.888 885.144 885.400 885.656 885.912 886.168 886.424 886.680 886.936 887.192 887.448 887.704 887.960 888.216 888.472 888.728 888.984 889.240 889.496 889.752 889.999 890.255 890.511 890.767 891.023 891.279 891.535 891.791 892.047 892.303 892.559 892.815 893.071 893.327 893.583 893.839 894.095 894.351 894.607 894.863 895.119 895.375 895.631 895.887 896.143 896.399 896.655 896.911 897.167 897.423 897.679 897.935 898.191 898.447 898.703 898.959 899.215 899.471 899.727 900.000
Ground Levels	850.761 850.457 851.151 851.082 851.012 850.943 850.874 850.805 850.741 850.723 850.760 850.852 850.998 851.199 851.455 851.765 852.130 852.550 853.049 853.549 854.082 854.615 855.148 855.681 856.213 856.746 857.279 857.812 858.345 858.878 859.411 859.944 860.476 861.009 861.542 862.075 862.608 863.141 863.674 864.207 864.740 865.273 865.805 866.335 866.845 867.334 867.802 868.249 868.674 869.078 869.480 869.821 870.162 870.480 870.778 871.054 871.312 871.569 871.825 872.081 872.337 872.594 872.850 873.106 873.362 873.619 873.875 874.131 874.387 874.644 874.900 875.156 875.412 875.669 875.925 876.181 876.437 876.693 876.950 877.206 877.462 877.718 877.975 878.231 878.488 878.744 879.000 879.256 879.512 879.768 880.024 880.280 880.536 880.792 881.048 881.304 881.560 881.816 882.072 882.328 882.584 882.840 883.096 883.352 883.608 883.864 884.120 884.376 884.632 884.888 885.144 885.400 885.656 885.912 886.168 886.424 886.680 886.936 887.192 887.448 887.704 887.960 888.216 888.472 888.728 888.984 889.240 889.496 889.752 889.999 890.255 890.511 890.767 891.023 891.279 891.535 891.791 892.047 892.303 892.559 892.815 893.071 893.327 893.583 893.839 894.095 894.351 894.607 894.863 895.119 895.375 895.631 895.887 896.143 896.399 896.655 896.911 897.167 897.423 897.679 897.935 898.191 898.447 898.703 898.959 899.215 899.471 899.727 900.000
Ground Levels @6m Left	848.427 849.091 849.619 848.850 850.542 851.064 851.272 850.569 850.472 849.231 846.942 845.012 842.898 842.535 842.975 844.114 845.377 846.642 849.335 851.664 853.091 852.026 852.199 852.364 852.251 852.218 852.233 852.215 852.227 852.238 852.349 852.880 853.534 853.675 854.318 854.975 855.678 856.381 857.033 857.733 858.335 858.935 860.535 861.135 861.735 862.335 862.935 863.535 864.135 864.735 865.335 865.935 866.535 867.135 867.735 868.335 868.935 869.535 870.135 870.735 871.335 871.935 872.535 873.135 873.735 874.335 874.935 875.535 876.135 876.735 877.335 877.935 878.535 879.135 879.735 880.335 880.935 881.535 882.135 882.735 883.335 883.935 884.535 885.135 885.735 886.335 886.935 887.535 888.135 888.735 889.335 889.935 890.535 891.135 891.735 892.335 892.935 893.535 894.135 894.735 895.335 895.935 896.535 897.135 897.735 898.335 898.935 899.535 900.135 900.735 901.335 901.935 902.535 903.135 903.735 904.335 904.935 905.535 906.135 906.735 907.335 907.935 908.535 909.135 909.735 910.335 910.935 911.535 912.135 912.735 913.335 913.935 914.535 915.135 915.735 916.335 916.935 917.535 918.135 918.735 919.335 919.935 920.535 921.135 921.735 922.335 922.935 923.535 924.135 924.735 925.335 925.935 926.535 927.135 927.735 928.335 928.935 929.535 930.135 930.735 931.335 931.935 932.535 933.135 933.735 934.335 934.935 935.535 936.135 936.735 937.335 937.935 938.535 939.135 939.735 940.335 940.935 941.535 942.135 942.735 943.335 943.935 944.535 945.135 945.735 946.335 946.935 947.535 948.135 948.735 949.335 949.935 950.535 951.135 951.735 952.335 952.935 953.535 954.135 954.735 955.335 955.935 956.535 957.135 957.735 958.335 958.935 959.535 960.135 960.735 961.335 961.935 962.535 963.135 963.735 964.335 964.935 965.535 966.135 966.735 967.335 967.935 968.535 969.135 969.735 970.335 970.935 971.535 972.135 972.735 973.335 973.935 974.535 975.135 975.735 976.335 976.935 977.535 978.135 978.735 979.335 979.935 980.535 981.135 981.735 982.335 982.935 983.535 984.135 984.735 985.335 985.935 986.535 987.135 987.735 988.335 988.935 989.535 990.135 990.735 991.335 991.935 992.535 993.135 993.735 994.335 994.935 995.535 996.135 996.735 997.335 997.935 998.535 999.135 999.735 1000.335 1000.935 1001.535 1002.135 1002.735 1003.335 1003.935 1004.535 1005.135 1005.735 1006.335 1006.935 1007.535 1008.135 1008.735 1009.335 1009.935 1010.535 1011.135 1011.735 1012.335 1012.935 1013.535 1014.135 1014.735 1015.335 1015.935 1016.535 1017.135 1017.735 1018.335 1018.935 1019.535 1020.135 1020.735 1021.335 1021.935 1022.535 1023.135 1023.735 1024.335 1024.935 1025.535 1026.135 1026.735 1027.335 1027.935 1028.535 1029.135 1029.735 1030.335 1030.935 1031.535 1032.135 1032.735 1033.335 1033.935 1034.535 1035.135 1035.735 1036.335 1036.935 1037.535 1038.135 1038.735 1039.335 1039.935 1040.535 1041.135 1041.735 1042.335 1042.935 1043.535 1044.135 1044.735 1045.335 1045.935 1046.535 1047.135 1047.735 1048.335 1048.935 1049.535 1050.135 1050.735 1051.335 1051.935 1052.535 1053.135 1053.735 1054.335 1054.935 1055.535 1056.135 1056.735 1057.335 1057.935 1058.535 1059.135 1059.735 1060.335 1060.935 1061.535 1062.135 1062.735 1063.335 1063.935 1064.535 1065.135 1065.735 1066.335 1066.935 1067.535 1068.135 1068.735 1069.335 1069.935 1070.535 1071.135 1071.735 1072.335 1072.935 1073.535 1074.135 1074.735 1075.335 1075.935 1076.535 1077.135 1077.735 1078.335 1078.935 1079.535 1080.135 1080.735 1081.335 1081.935 1082.535 1083.135 1083.735 1084.335 1084.935 1085.535 1086.135 1086.735 1087.335 1087.935 1088.535 1089.135 1089.735 1090.335 1090.935 1091.535 1092.135 1092.735 1093.335 1093.935 1094.535 1095.135 1095.735 1096.335 1096.935 1097.535 1098.135 1098.735 1099.335 1099.935 1100.535 1101.135 1101.735 1102.335 1102.935 1103.535 1104.135 1104.735 1105.335 1105.935 1106.535 1107.135 1107.735 1108.335 1108.935 1109.535 1110.135 1110.735 1111.335 1111.935 1112.535 1113.135 1113.735 1114.335 1114.935 1115.535 1116.135 1116.735 1117.335 1117.935 1118.535 1119.135 1119.735 1120.335 1120.935 1121.535 1122.135 1122.735 1123.335 1123.935 1124.535 1125.135 1125.735 1126.335 1126.935 1127.535 1128.135 1128.735 1129.335 1129.935 1130.535 1131.135 1131.735 1132.335 1132.935 1133.535 1134.135 1134.735 1135.335 1135.935 1136.535 1137.135 1137.735 1138.335 1138.935 1139.535 1140.135 1140.735 1141.335 1141.935 1142.535 1143.135 1143.735 1144.335 1144.935 1145.535 1146.135 1146.735 1147.335 1147.935 1148.535 1149.135 1149.735 1150.335 1150.935 1151.535 1152.135 1152.735 1153.335 1153.935 1154.535 1155.135 1155.735 1156.335 1156.935 1157.535 1158.135 1158.735 1159.335 1159.935 1160.535 1161.135 1161.735 1162.335 1162.935 1163.535 1164.135 1164.735 1165.335 1165.935 1166.535 1167.135 1167.735 1168.335 1168.935 1169.535 1170.135 1170.735 1171.335 1171.935 1172.535 1173.135 1173.735 1174.335 1174.935 1175.535 1176.135 1176.735 1177.335 1177.935 1178.535 1179.135 1179.735 1180.335 1180.935 1181.535 1182.135 1182.735 1183.335 1183.935 1184.535 1185.135 1185.735 1186.335 1186.935 1187.535 1188.135 1188.735 1189.335 1189.935 1190.535 1191.135 1191.735 1192.335 1192.935 1193.535 1194.135 1194.735 1195.335 1195.935 1196.535 1197.135 1197.735 1198.335 1198.935 1199.535 1200.135 1200.735 1201.335 1201.935 1202.535 1203.135 1203.735 1204.335 1204.935 1205.535 1206.135 1206.735 1207.335 1207.935 1208.535 1209.135 1209.735 1210.335 1210.935 1211.535 1212.135 1212.735 1213.335 1213.935 1214.535 1215.135 1215.735 1216.335 1216.935 1217.535 1218.135 1218.735 1219.335 1219.935 1220.535 1221.135 1221.735 1222.335 1222.935 1223.535 1224.135 1224.735 1225.335 1225.935 1226.535 1227.135 1227.735 1228.335 1228.935 1229.535 1230.135 1230.735 1231.335 1231.935 1232.535 1233.135 1233.735 1234.335 1234.935 1235.535 1236.135 1236.735 1237.335 1237.935 1238.535 1239.135 1239.735 1240.335 1240.935 1241.535 1242.135 1242.735 1243.335 1243.935 1244.535 1245.135 1245.735 1246.335 1246.935 1247.535 1248.135 1248.735 1249.335 1249.935 1250.535 1251.135 1251.735 1252.335 1252.935 1253.535 1254.135 1254.735 1255.335 1255.935 1256.535 1257.135 1257.735 1258.335 1258.935 1259.535 1260.135 1260.735 1261.335 1261.935 1262.535 1263.135 1263.735 1264.335 1264.935 1265.535 1266.135 1266.735 1267.335 1267.935 1268.535 1269.135 1269.735 1270.335 1270.935 1271.535 1272.135 1272.735 1273.335 1273.935 1274.535 1275.135 1275.735 1276.335 1276.935 1277.535 1278.135 1278.735 1279.335 1279.935 1280.535 1281.135 1281.735 1282.335 1282.935 1283.535 1284.135 1284.735 1285.335 1285.935 1286.535 1287.135 1287.735 1288.335 1288.935 1289.535 1290.135 1290.735 1291.335 1291.935 1292.535 1293.135 1293.735 1294.335 1294.935 1295.535 1296.135 1296.735 1297.335 1297.935 1298.535 1299.135 1299.735 1300.335 1300.935 1301.535 1302.135 1302.735 1303.335 1303.935 1304.535 1305.135 1305.735 1306.335 1306.935 1307.535 1308.135 1308.735 1309.335 1309.935 1310.535 1311.135 1311.735 1312.335 1312.935 1313.535 1314.135 1314.735 1315.335 1315.935 1316.535 1317.135 1317.735 1318.335 1318.935 1319.535 1320.135 1320.735 1321.335 1321.935 1322.535 1323.135 1323.735 1324.335 1324.935 1325.535 1326.135 1326.735 1327.335 1327.935 1328.535 1329.135 1329.735 1330.335 1330.935 1331.535 1332.135 1332.735 1333.335 1333.935 1334.535 1335.135 1335.735 1336.335 1336.935 1337.535 1338.135 1338.735 1339.335 1339.935 1340.535 1341.135 1341.735 1342.335 1342.935 1343.535 1344.135 1344.735 1345.335 1345.935 1346.535 1347.135 1347.735 1348.335 1348.935 1349.535 1350.135 1350.735 1351.335 1351.935 1352.535 1353.135 1353.735 1354.335 1354.935 1355.535 1356.135 1356.735 1357.335 1357.935 1358.535 1359.135 1359.735 1360.335 1360.935 1361.535 1362.135 1362.735 1363.335 1363.935 1364.535 1365.135 1365.735 1366.335 1366.935 1367.535 1368.135 1368.735 1369.335 1369.935 1370.535 1371.135 1371.735 1372.335 1372.935 1373.535 1374.135 1374.735 1375.335 1375.935 1376.535 1377.135 1377.735 1378.335 1378.935 1379.535 1380.135 1380.735 1381.335 1381.935 1382.535 1383.135 1383.735 13

LEGEND

PLAN:-

PROP.CENTER LINE

PROP.CARRIAGEWAY EDGE

PROP.EARTHEN SHOULDER

TOE LINE

PROP.RIGHT OF WAY

CULVERT

MAJOR/MINOR BRIDGE

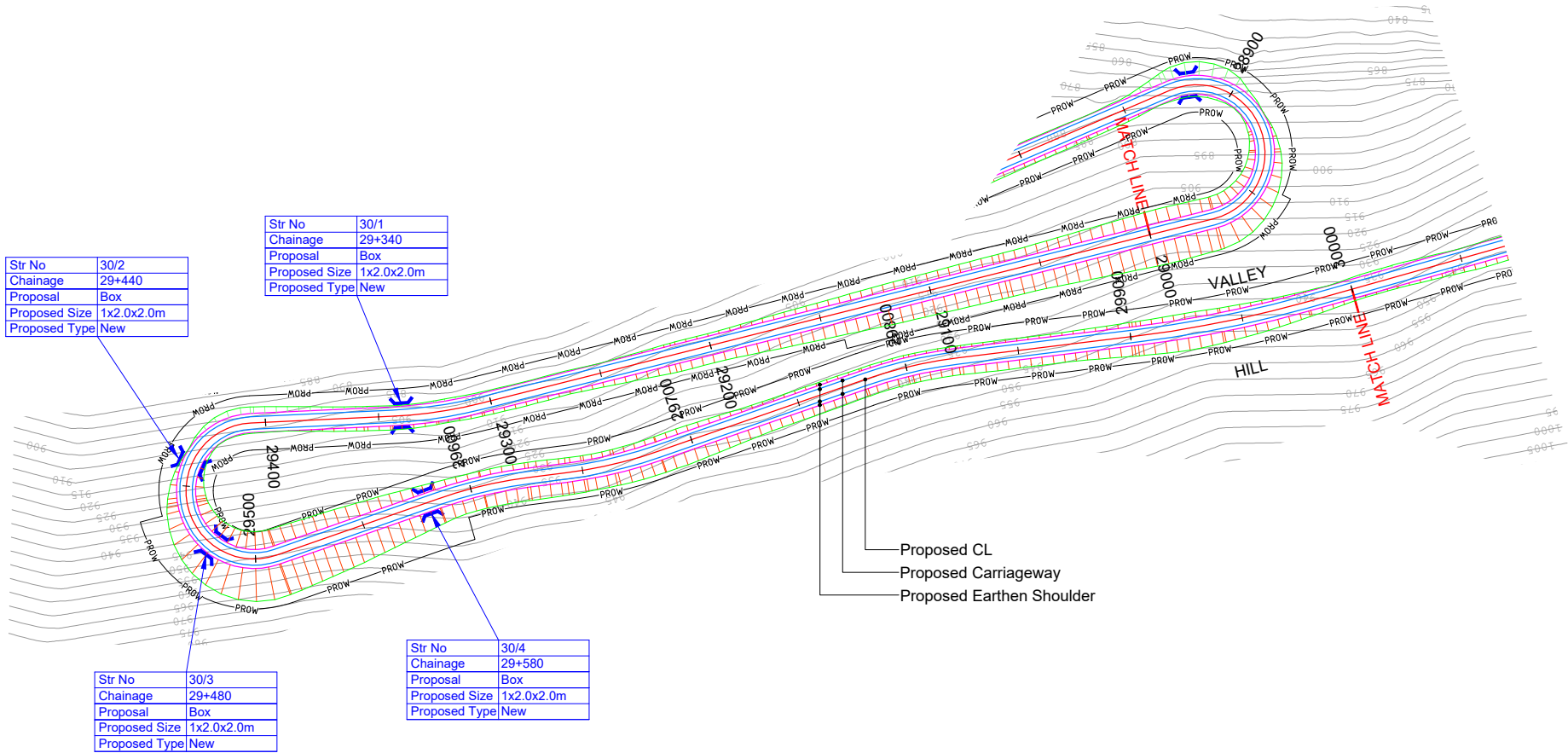
PROFILE:-

PROP.ROAD LEVEL

EXISTING GROUND LEVEL

GROUND LEVEL @6M LEFT

GROUND LEVEL @6M RIGHT



HIP NO. 215 AT CH. 29324.008			
X = 658641.48		Y = 3195428.088	
R (m)	200	Ls (m)	
Dc(deg)	11.4319	S(m)	
Lc(m)	39.9	Ts(deg)	
Ts(m)	20.019	Δ(deg)	11.4319
Es(m)	0.999	e(%)	5.56%
V(km/hr)	50	We(m)	0.6
CurveType	RIGHT		

HIP NO. 216 AT CH. 29457.932				
X = 658525.553		Y = 3195472.17		
R (m)	30	Ls (m)		
Dc(deg)	196.5264	S(m)		
Lc(m)	102.9	Ts(deg)		
Ts(m)	-206.57	Δ(deg)	196.5264	
Es(m)	-238.738	e(%)	10.00%	
V(km/hr)	30	We(m)	1.5	
CurveType	RIGHT			

HIP NO. 217 AT CH. 29605.458			
X = 658635.654		Y = 3195463.906	
R (m)	200	Ls (m)	
Dc(deg)	12.031	S(m)	
Lc(m)	42	Ts(deg)	
Ts(m)	21.075	Δ(deg)	12.031
Es(m)	1.107	e(%)	5.56%
V(km/hr)	50	We(m)	0.6
CurveType	LEFT		

HIP NO. 218 AT CH. 29663.691			
X = 658579.621		Y = 3195480.316	
R (m)	200	Ls (m)	
Dc(deg)	11.9562	S(m)	
Lc(m)	41.74	Ts(deg)	
Ts(m)	20.944	Δ(deg)	11.9562
Es(m)	1.094	e(%)	5.56%
V(km/hr)	50	We(m)	0.6
CurveType	LEFT		

HIP NO. 219 AT CH. 29802.201			
X = 658441.358		Y = 3195490.874	
R (m)	200	Ls (m)	
Dc(deg)	12.1688	S(m)	
Lc(m)	42.48	Ts(deg)	
Ts(m)	21.319	Δ(deg)	12.1688
Es(m)	1.133	e(%)	5.56%
V(km/hr)	50	We(m)	0.6
CurveType	RIGHT		

HIP NO. 220 AT CH. 29940.968			
X = 658308.182		Y = 3195530.413	
R (m)	500	Ls (m)	
Dc(deg)	8.7216	S(m)	
Lc(m)	76.11	Ts(deg)	
Ts(m)	38.129	Δ(deg)	8.7216
Es(m)	1.452	e(%)	-2.50%
V(km/hr)	50	We(m)	Nil
CurveType	LEFT		

R7	AUG 2023	FINAL DPR
R6	JAN 2023	MODIFIED DETAILED PROJECT REPORT
R5	JULY 2022	MODIFIED DETAILED PROJECT REPORT
R4	AUG 2019	MODIFIED DETAILED PROJECT REPORT
R3	JULY 2018	DETAILED PROJECT REPORT
REV.	DATE	DESCRIPTION OF REVISIONS

CLIENT:



National Highways & Infrastructure Development Corporation Limited.
3rd Floor, PTI building, 4-Parliament Street, New Delhi-11001

PROJECT:

Consultancy Services for Preparation of Feasibility study and Detailed Project Report for Two laning of Pango to Jorging Road (Length - 90km) for execution on EPC Mode in the state of Arunachal Pradesh under SARDP-NE Phase 'B'

DPR CONSULTANT:



Shweta Technophile Consultants Pvt. Ltd.
(222-223,313, Rajhans Plaza, Ahinsa Khand-I, Indirapuram, Ghaziabad, UP-201014)

DRAWN BY	ASHISH RAWAT
DESIGN BY	RAM SONKAR
CHECKED BY	GEETA JINDAL
HORIZONTAL SCALE 1:2000	VERTICAL SCALE 1:200

TITLE:

PLAN AND PROFILE
FROM CH:29+000 TO 30+000

DRAWING NO.
MORT&H/PANGO-JORGING/STC/PP- 55

A3

LEGEND

PLAN:-

PROP.CENTER LINE

PROP.CARRIAGEWAY EDGE

PROP.EARTHEN SHOULDER

TOE LINE

PROP.RIGHT OF WAY

CULVERT

MAJOR/MINOR BRIDGE

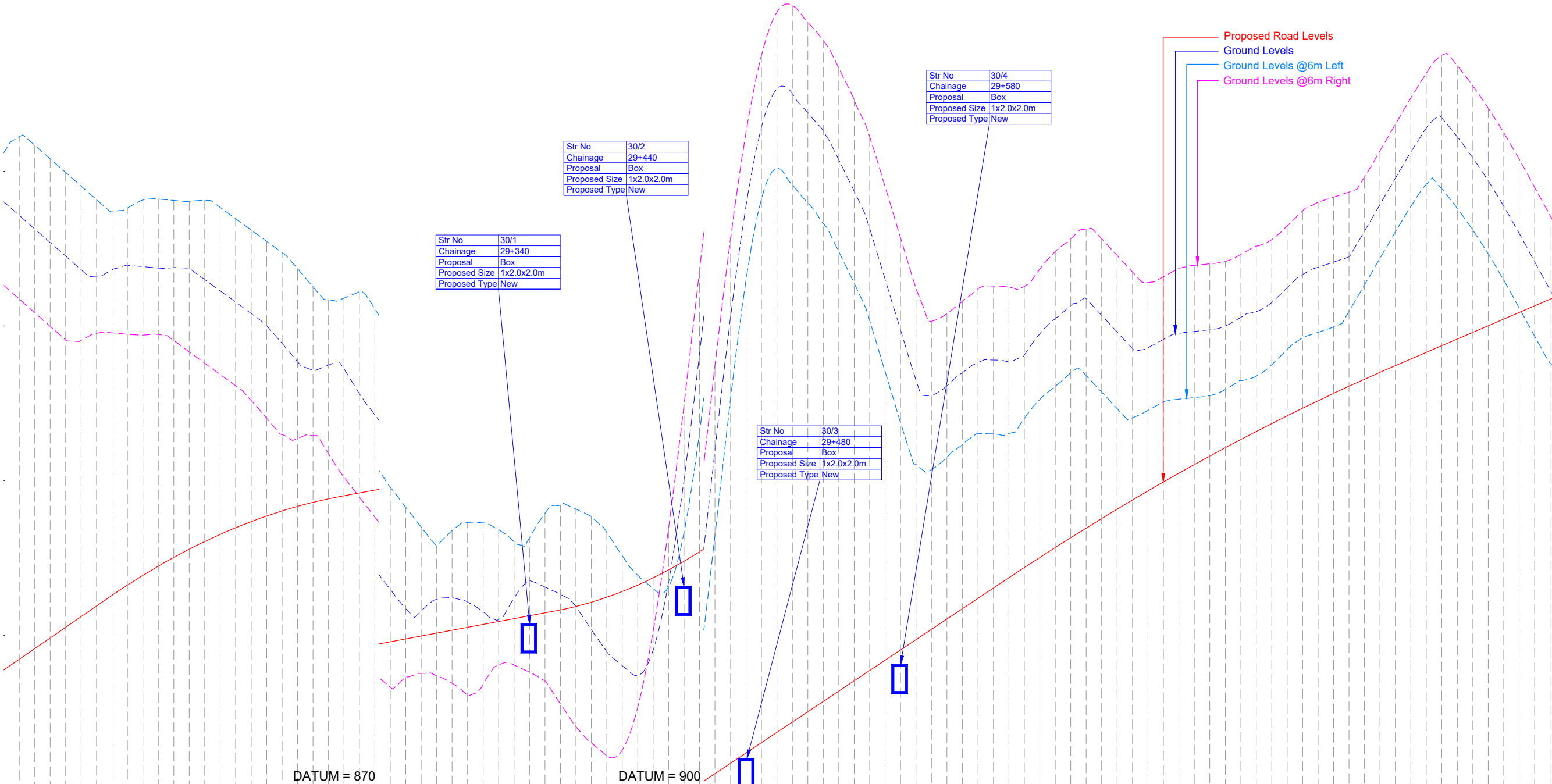
PROFILE:-

PROP.ROAD LEVEL

EXISTING GROUND LEVEL

GROUND LEVEL @6M LEFT

GROUND LEVEL @6M RIGHT



DATUM = 880

DATUM = 870

DATUM = 900

Proposed Road Levels	887.751 888.441 889.131 889.821 890.511 891.201 891.891 892.580 893.273 893.963 894.670 895.333 895.962 896.558 897.120 897.661 898.176 898.654 899.098 899.569 899.974 900.322 900.509 900.696 900.883 901.070 901.257 901.444 901.633 901.860 902.135 902.457 902.828 903.246 903.713 904.227 904.789 905.399 905.954 906.544 907.166 912.048 912.714 913.381 914.047 914.713 915.379 916.045 916.711 917.377 918.043 918.709 919.371 920.024 920.668 921.302 921.926 922.542 923.147 923.744 924.330 924.908 925.475 926.034 926.583 927.122 927.652 928.172 928.683 929.185 929.677 930.159 930.632 931.096 931.550 932.030 932.493 932.938 933.378 933.814 934.246 934.676 935.005 935.435 935.864 936.293 936.722
Ground Levels	918.030 917.151 916.271 915.392 914.512 913.633 912.753 911.873 910.993 910.113 909.233 908.353 907.473 906.593 905.713 904.833 903.953 903.073 902.193 901.313 900.433 900.509 900.696 900.883 901.070 901.257 901.444 901.633 901.860 902.135 902.457 902.828 903.246 903.713 904.227 904.789 905.399 905.954 906.544 907.166 912.048 912.714 913.381 914.047 914.713 915.379 916.045 916.711 917.377 918.043 918.709 919.371 920.024 920.668 921.302 921.926 922.542 923.147 923.744 924.330 924.908 925.475 926.034 926.583 927.122 927.652 928.172 928.683 929.185 929.677 930.159 930.632 931.096 931.550 932.030 932.493 932.938 933.378 933.814 934.246 934.676 935.005 935.435 935.864 936.293 936.722
Ground Levels @6m Left	921.787 922.224 921.686 920.806 919.927 919.047 918.168 917.378 916.523 915.623 914.740 913.702 912.692 911.682 910.672 909.662 908.652 907.642 906.632 905.622 904.612 903.602 902.592 901.582 900.572 900.509 900.696 900.883 901.070 901.257 901.444 901.633 901.860 902.135 902.457 902.828 903.246 903.713 904.227 904.789 905.399 905.954 906.544 907.166 912.048 912.714 913.381 914.047 914.713 915.379 916.045 916.711 917.377 918.043 918.709 919.371 920.024 920.668 921.302 921.926 922.542 923.147 923.744 924.330 924.908 925.475 926.034 926.583 927.122 927.652 928.172 928.683 929.185 929.677 930.159 930.632 931.096 931.550 932.030 932.493 932.938 933.378 933.814 934.246 934.676 935.005 935.435 935.864 936.293 936.722
Ground Levels @6m Right	912.618 911.739 910.859 909.980 909.100 908.220 907.340 906.460 905.580 904.700 903.820 902.940 902.060 901.180 900.300 900.400 900.500 900.600 900.700 900.800 900.900 901.000 901.100 901.200 901.300 901.400 901.500 901.600 901.700 901.800 901.900 902.000 902.100 902.200 902.300 902.400 902.500 902.600 902.700 902.800 902.900 903.000 903.100 903.200 903.300 903.400 903.500 903.600 903.700 903.800 903.900 904.000 904.100 904.200 904.300 904.400 904.500 904.600 904.700 904.800 904.900 905.000 905.100 905.200 905.300 905.400 905.500 905.600 905.700 905.800 905.900 906.000 906.100 906.200 906.300 906.400 906.500 906.600 906.700 906.800 906.900 907.000 907.100 907.200 907.300 907.400 907.500 907.600 907.700 907.800 907.900 908.000 908.100 908.200 908.300 908.400 908.500 908.600 908.700 908.800 908.900 909.000 909.100 909.200 909.300 909.400 909.500 909.600 909.700 909.800 909.900 910.000 910.100 910.200 910.300 910.400 910.500 910.600 910.700 910.800 910.900 911.000 911.100 911.200 911.300 911.400 911.500 911.600 911.700 911.800 911.900 912.000 912.100 912.200 912.300 912.400 912.500 912.600 912.700 912.800 912.900 913.000 913.100 913.200 913.300 913.400 913.500 913.600 913.700 913.800 913.900 914.000 914.100 914.200 914.300 914.400 914.500 914.600 914.700 914.800 914.900 915.000 915.100 915.200 915.300 915.400 915.500 915.600 915.700 915.800 915.900 916.000 916.100 916.200 916.300 916.400 916.500 916.600 916.700 916.800 916.900 917.000 917.100 917.200 917.300 917.400 917.500 917.600 917.700 917.800 917.900 918.000 918.100 918.200 918.300 918.400 918.500 918.600 918.700 918.800 918.900 919.000 919.100 919.200 919.300 919.400 919.500 919.600 919.700 919.800 919.900 920.000 920.100 920.200 920.300 920.400 920.500 920.600 920.700 920.800 920.900 921.000 921.100 921.200 921.300 921.400 921.500 921.600 921.700 921.800 921.900 922.000 922.100 922.200 922.300 922.400 922.500 922.600 922.700 922.800 922.900 923.000 923.100 923.200 923.300 923.400 923.500 923.600 923.700 923.800 923.900 924.000 924.100 924.200 924.300 924.400 924.500 924.600 924.700 924.800 924.900 925.000 925.100 925.200 925.300 925.400 925.500 925.600 925.700 925.800 925.900 926.000 926.100 926.200 926.300 926.400 926.500 926.600 926.700 926.800 926.900 927.000 927.100 927.200 927.300 927.400 927.500 927.600 927.700 927.800 927.900 928.000 928.100 928.200 928.300 928.400 928.500 928.600 928.700 928.800 928.900 929.000 929.100 929.200 929.300 929.400 929.500 929.600 929.700 929.800 929.900 930.000 930.100 930.200 930.300 930.400 930.500 930.600 930.700 930.800 930.900 931.000 931.100 931.200 931.300 931.400 931.500 931.600 931.700 931.800 931.900 932.000 932.100 932.200 932.300 932.400 932.500 932.600 932.700 932.800 932.900 933.000 933.100 933.200 933.300 933.400 933.500 933.600 933.700 933.800 933.900 934.000 934.100 934.200 934.300 934.400 934.500 934.600 934.700 934.800 934.900 935.000 935.100 935.200 935.300 935.400 935.500 935.600 935.700 935.800 935.900 936.000 936.100 936.200 936.300 936.400 936.500 936.600 936.700 936.800 936.900 937.000 937.100 937.200 937.300 937.400 937.500 937.600 937.700 937.800 937.900 938.000 938.100 938.200 938.300 938.400 938.500 938.600 938.700 938.800 938.900 939.000 939.100 939.200 939.300 939.400 939.500 939.600 939.700 939.800 939.900 940.000 940.100 940.200 940.300 940.400 940.500 940.600 940.700 940.800 940.900 941.000 941.100 941.200 941.300 941.400 941.500 941.600 941.700 941.800 941.900 942.000 942.100 942.200 942.300 942.400 942.500 942.600 942.700 942.800 942.900 943.000 943.100 943.200 943.300 943.400 943.500 943.600 943.700 943.800 943.900 944.000 944.100 944.200 944.300 944.400 944.500 944.600 944.700 944.800 944.900 945.000 945.100 945.200 945.300 945.400 945.500 945.600 945.700 945.800 945.900 946.000 946.100 946.200 946.300 946.400 946.500 946.600 946.700 946.800 946.900 947.000 947.100 947.200 947.300 947.400 947.500 947.600 947.700 947.800 947.900 948.000 948.100 948.200 948.300 948.400 948.500 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LEGEND

PLAN:-

PROP.CENTER LINE

PROP.CARRIAGEWAY EDGE

PROP.EARTHEN SHOULDER

TOE LINE

PROP.RIGHT OF WAY

CULVERT

MAJOR/MINOR BRIDGE

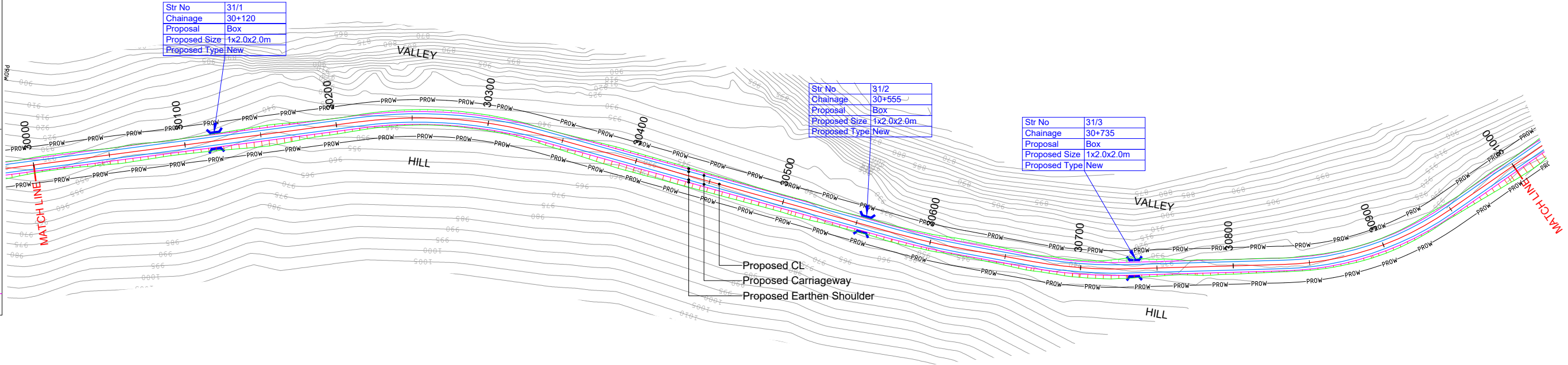
PROFILE:-

PROP.ROAD LEVEL

EXISTING GROUND LEVEL

GROUND LEVEL @6M LEFT

GROUND LEVEL @6M RIGHT



HIP NO. 221 AT CH. 30275.353				HIP NO. 222 AT CH. 30598.467				HIP NO. 223 AT CH. 30699.405				HIP NO. 224 AT CH. 30891.088			
X =	657976	Y =	3195576	X =	657698.169	Y =	3195742.626	X =	657607.103	Y =	3195786.461	X =	657419.195	Y =	3195832.528
R (m)	300	Ls (m)		R (m)	500	Ls (m)		R (m)	300	Ls (m)		R (m)	200	Ls (m)	
Dc(deg)	23.1383	S(m)		Dc(deg)	5.2482	S(m)		Dc(deg)	11.9299	S(m)		Dc(deg)	33.1889	S(m)	
Lc(m)	121.15	Ts(deg)		Lc(m)	45.8	Ts(deg)		Lc(m)	62.47	Ts(deg)		Lc(m)	115.85	Ts(deg)	
Ts(m)	61.413	Δ(deg)	23.1383	Ts(m)	22.916	Δ(deg)	5.2482	Ts(m)	31.346	Δ(deg)	11.9299	Ts(m)	59.601	Δ(deg)	33.1889
Es(m)	6.221	e(%)	3.70%	Es(m)	0.525	e(%)	-2.50%	Es(m)	1.633	e(%)	3.70%	Es(m)	8.692	e(%)	5.56%
V(km/hr)	50	We(m)	0.6	V(km/hr)	50	We(m)	Nil	V(km/hr)	50	We(m)	0.6	V(km/hr)	50	We(m)	0.6
CurveType	RIGHT			CurveType	LEFT			CurveType	LEFT			CurveType	LEFT		

R7	AUG 2023	FINAL DPR
R6	JAN 2023	MODIFIED DETAILED PROJECT REPORT
R5	JULY 2022	MODIFIED DETAILED PROJECT REPORT
R4	AUG 2019	MODIFIED DETAILED PROJECT REPORT
R3	JULY 2018	DETAILED PROJECT REPORT
REV.	DATE	DESCRIPTION OF REVISIONS

CLIENT:

National Highways & Infrastructure Development Corporation Limited.

3rd Floor, PTI building, 4-Parliament Street, New Delhi-11001

PROJECT:

Consultancy Services for Preparation of Feasibility study and Detailed Project Report for Two laning of Pango to Jorging Road (Length - 90km) for execution on EPC Mode in the state of Arunachal Pradesh under SARDP-NE Phase 'B'

DPR CONSULTANT:

Shweta Technophile Consultants Pvt. Ltd.

(222-223,313, Rajhans Plaza, Ahinsa Khand-I, Indirapuram, Ghaziabad, UP-201014)

DRAWN BY	ASHISH RAWAT
DESIGN BY	RAM SONKAR
CHECKED BY	GEETA JINDAL
HORIZONTAL SCALE	VERTICAL SCALE
1:2000	1:200

TITLE:

PLAN AND PROFILE

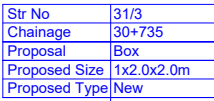
FROM CH:30+000 TO 31+000

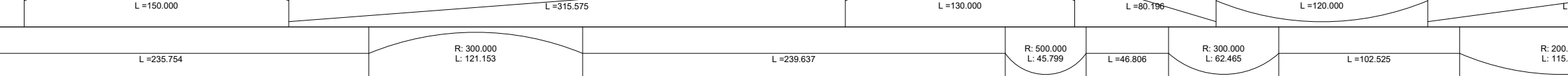
DRAWING NO.

MORT&H/PANGO-JORGING/STC/PP-57

A3

GROUND LEVEL @6M RIGHT- - - -



Chainage	Horizontal Alignment		Vertical Alignment	Ground Levels @6m Right	Ground Levels @6m Left	Ground Levels	Proposed Road Levels
30000.00				942.152	932.590	937.337	936.722
30010.00	L = 235.754				941.165	932.441	936.801
30020.00				941.541	932.882	937.305	937.581
30030.00				942.679	934.427	938.555	937.966
30040.00				944.364	936.113	940.241	938.386
30050.00				946.050	937.798	941.926	938.752
30060.00				947.736	939.180	943.506	939.093
30070.00				947.756	939.157	943.457	939.408
30080.00				947.161	938.560	942.860	939.699
30090.00				946.612	938.542	942.375	939.965
30100.00				946.892	939.342	943.118	940.206
30110.00				947.724	940.341	944.034	940.422
30120.00				948.842	941.770	945.339	940.614
30130.00				950.422	943.376	946.901	940.780
30140.00				952.029	944.982	948.507	940.922
30150.00				953.635	946.588	950.113	941.038
30160.00				954.733	946.199	950.318	941.130
30170.00				952.700	943.993	948.344	941.197
30180.00				950.494	941.787	946.199	941.253
30190.00				948.802	940.726	944.762	941.309
30200.00				948.735	940.047	944.411	941.365
30210.00				947.948	938.926	943.435	941.421
30220.00				946.834	937.901	942.348	941.477
30230.00				945.861	937.094	941.461	941.533
30240.00				945.120	936.511	940.801	941.589
30250.00				944.611	936.152	940.371	941.645
30260.00				944.335	936.018	940.169	941.702
30270.00				944.293	936.109	940.196	941.758
30280.00				944.485	936.424	940.453	941.814
30290.00				944.909	936.961	940.938	941.870
30300.00				945.366	937.268	941.271	941.926
30310.00				945.596	937.935	941.725	941.982
30320.00				946.362	938.971	942.666	942.038
30330.00				947.536	940.156	943.876	942.094
30340.00				948.837	941.231	945.113	942.150
30350.00				949.913	942.210	946.043	942.206
30360.00				950.906	943.450	947.141	942.262
30370.00				952.272	945.047	948.638	942.318
30380.00				953.881	946.529	950.232	942.374
30390.00				955.155	946.923	950.998	942.430
30400.00				955.041	946.633	950.836	942.486
30410.00				954.730	946.321	950.525	942.542
30420.00				954.418	946.010	950.214	942.598
30430.00				954.107	945.699	949.903	942.655
30440.00				953.796	945.388	949.591	942.711
30450.00				953.485	945.077	949.280	942.767
30460.00				953.174	944.765	948.969	942.823
30470.00				952.862	944.454	948.658	942.879
30480.00				952.551	944.143	948.347	942.935
30490.00				952.240	943.832	948.035	942.988
3							

TITLE: PLAN AND PROFILE FROM CH:30+000 TO 31+000	
DRAWING NO. MORT&H/PANGO-JORGING/STC/PP-58	A3

LEGEND

PLAN:-

PROP.CENTER LINE

PROP.CARRIAGEWAY EDGE

PROP.EARTHEN SHOULDER

TOE LINE

PROP.RIGHT OF WAY

CULVERT

MAJOR/MINOR BRIDGE

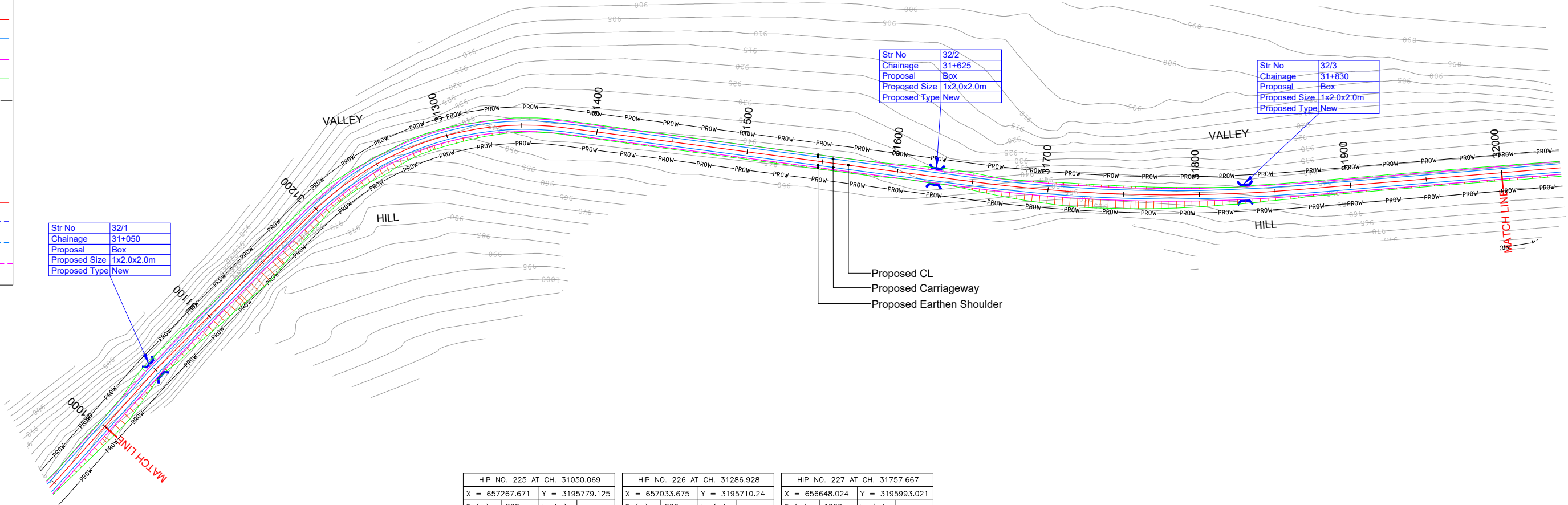
PROFILE:-

PROP.ROAD LEVEL

EXISTING GROUND LEVEL

GROUND LEVEL @6M LEFT

GROUND LEVEL @6M RIGHT



HIP NO. 225 AT CH. 31050.069					HIP NO. 226 AT CH. 31286.928					HIP NO. 227 AT CH. 31757.667				
X = 657267.671		Y = 3195779.125			X = 657033.675		Y = 3195710.24			X = 656648.024		Y = 3195993.021		
R (m)	200	Ls (m)			R (m)	200	Ls (m)			R (m)	1000	Ls (m)		
Dc(deg)	3.0109	S(m)			Dc(deg)	52.6545	S(m)			Dc(deg)	12.28	S(m)		
Lc(m)	10.51	Ts(deg)			Lc(m)	183.8	Ts(deg)			Lc(m)	214.33	Ts(deg)		
Ts(m)	5.256	Δ(deg)	3.0109		Ts(m)	98.965	Δ(deg)	52.6545		Ts(m)	107.575	Δ(deg)	12.28	
Es(m)	0.069	e(%)	5.56%		Es(m)	23.146	e(%)	5.56%		Es(m)	5.77	e(%)	-2.50%	
V(km/hr)	50	We(m)	0.6		V(km/hr)	50	We(m)	0.6		V(km/hr)	50	We(m)	Nil	
CurveType	RIGHT				CurveType	RIGHT				CurveType	LEFT			

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DPR CONSULTANT:

Shweta Technophile Consultants Pvt. Ltd.
(222-223,313, Rajhans Plaza, Ahinsa Khand-I, Indirapuram, Ghaziabad, UP-201014)

DRAWN BY	ASHISH RAWAT
DESIGN BY	RAM SONKAR
CHECKED BY	GEETA JINDAL
HORIZONTAL SCALE 1:2000	VERTICAL SCALE 1:200

TITLE:

PLAN AND PROFILE
FROM CH:31+000 TO 32+000

DRAWING NO.
MORT&H/PANGO-JORGING/STC/PP-59

A3

LEGEND

PLAN:-

PROP.CENTER LINE

PROP.CARRIAGEWAY EDGE

PROP.EARTHEN SHOULDER

TOE LINE

PROP.RIGHT OF WAY

CULVERT

MAJOR/MINOR BRIDGE

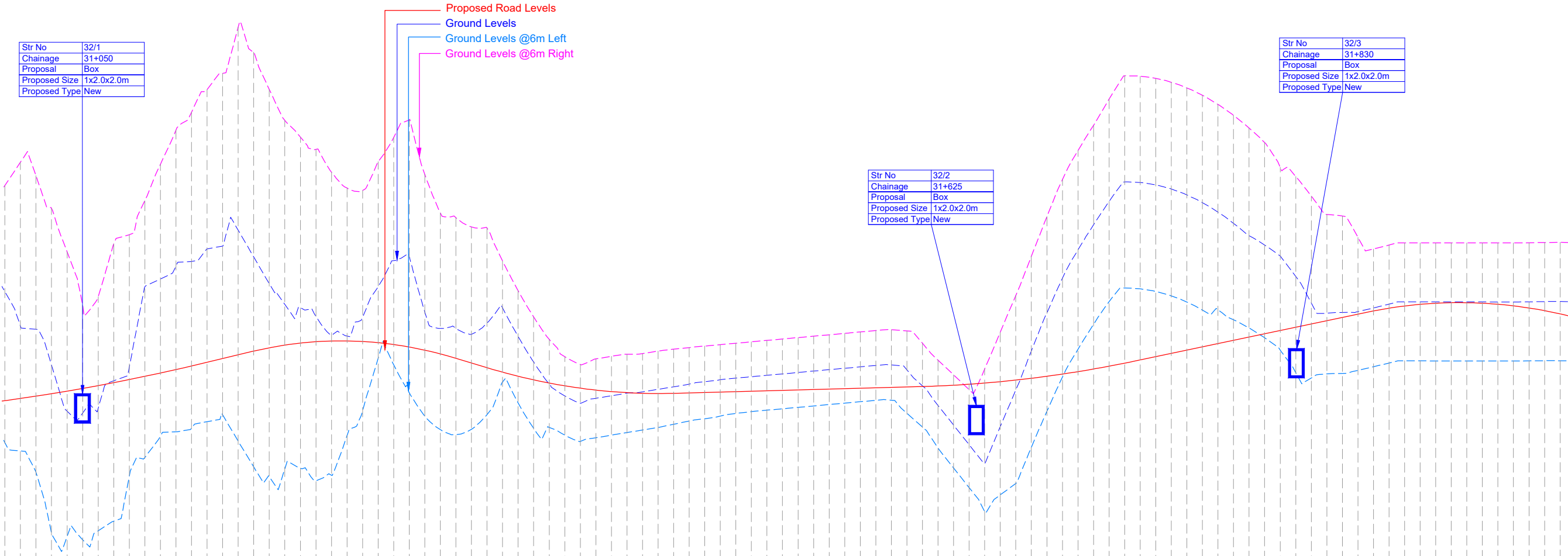
PROFILE:-

PROP.ROAD LEVEL

EXISTING GROUND LEVEL

GROUND LEVEL @6M LEFT

GROUND LEVEL @6M RIGHT



DATUM = 930			
Proposed Road Levels			
Ground Levels			
Ground Levels @6m Left			
Ground Levels @6m Right			
Vertical Alignment			
Horizontal Alignment			
Chainage			

LEGEND

PLAN:-

PROP.CENTER LINE

PROP.CARRIAGEWAY EDGE

PROP.EARTHEN SHOULDER

TOE LINE

PROP.RIGHT OF WAY

CULVERT

MAJOR/MINOR BRIDGE

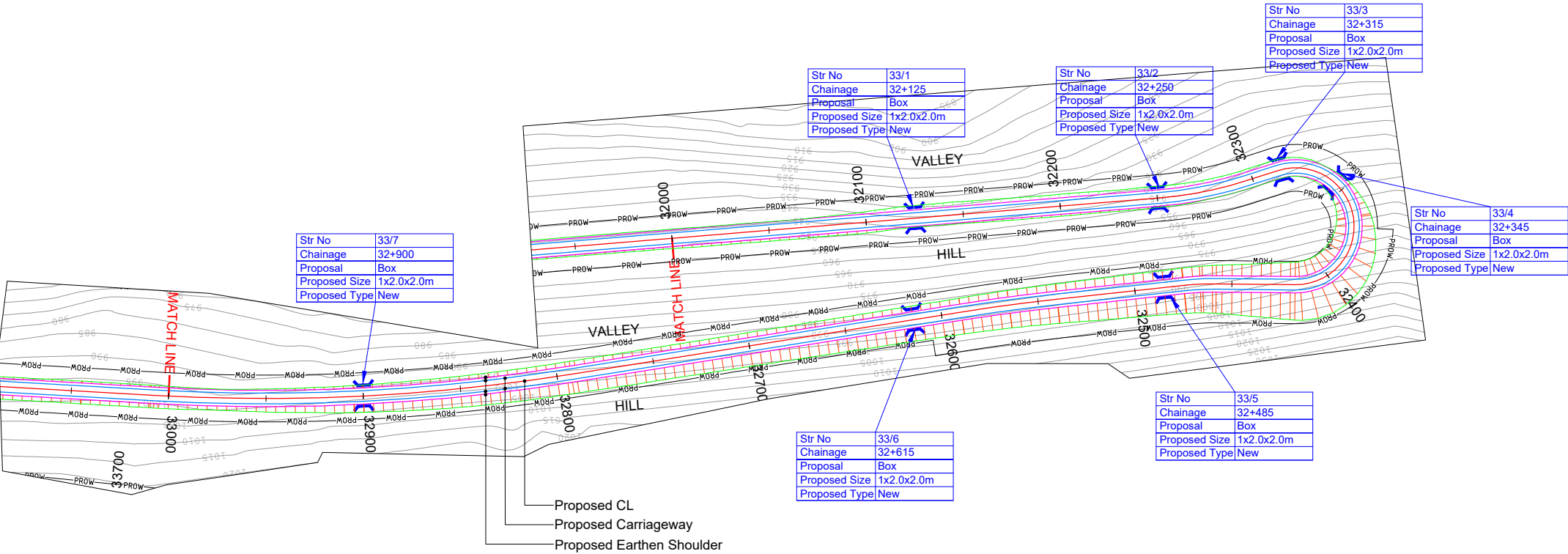
PROFILE:-

PROP.ROAD LEVEL

EXISTING GROUND LEVEL

GROUND LEVEL @6M LEFT

GROUND LEVEL @6M RIGHT



HIP NO. 228 AT CH. 32274.095				HIP NO. 229 AT CH. 32365.623				HIP NO. 230 AT CH. 32466.355				HIP NO. 231 AT CH. 32565.06				HIP NO. 232 AT CH. 32899.922			
X = 656175.67	Y = 3196203.039			X = 656318.651	Y = 3196175.449			X = 656199.626	Y = 3196242.28			X = 656290.831	Y = 3196204.503			X = 656606.571	Y = 3196091.712		
R (m)	200	Ls (m)		R (m)	30	Ls (m)		R (m)	140	Ls (m)		R (m)	1000	Ls (m)		R (m)	1000	Ls (m)	
Dc(deg)	13.0491	S(m)		Dc(deg)	198.3924	S(m)		Dc(deg)	6.8141	S(m)		Dc(deg)	2.8417	S(m)		Dc(deg)	12.2965	S(m)	
Lc(m)	45.55	Ts(deg)		Lc(m)	103.88	Ts(deg)		Lc(m)	16.65	Ts(deg)		Lc(m)	49.6	Ts(deg)		Lc(m)	214.61	Ts(deg)	
Ts(m)	22.874	Δ(deg)	13.0491	Ts(m)	-185.304	Δ(deg)	198.3924	Ts(m)	8.335	Δ(deg)	6.8141	Ts(m)	24.804	Δ(deg)	2.8417	Ts(m)	107.721	Δ(deg)	12.2965
Es(m)	1.304	e(%)	5.56%	Es(m)	-217.717	e(%)	10.00%	Es(m)	0.248	e(%)	7.94%	Es(m)	0.308	e(%)	-2.50%	Es(m)	5.785	e(%)	-2.50%
V(km/hr)	50	We(m)	0.6	V(km/hr)	30	We(m)	1.5	V(km/hr)	50	We(m)	0.6	V(km/hr)	50	We(m)	Nil	V(km/hr)	50	We(m)	Nil
CurveType	RIGHT			CurveType	LEFT			CurveType	RIGHT			CurveType	LEFT			CurveType	RIGHT		

LEGEND

PLAN:-

PROP.CENTER LINE

PROP.CARRIAGEWAY EDGE

PROP.EARTHEN SHOULDER

TOE LINE

PROP.RIGHT OF WAY

CULVERT

MAJOR/MINOR BRIDGE

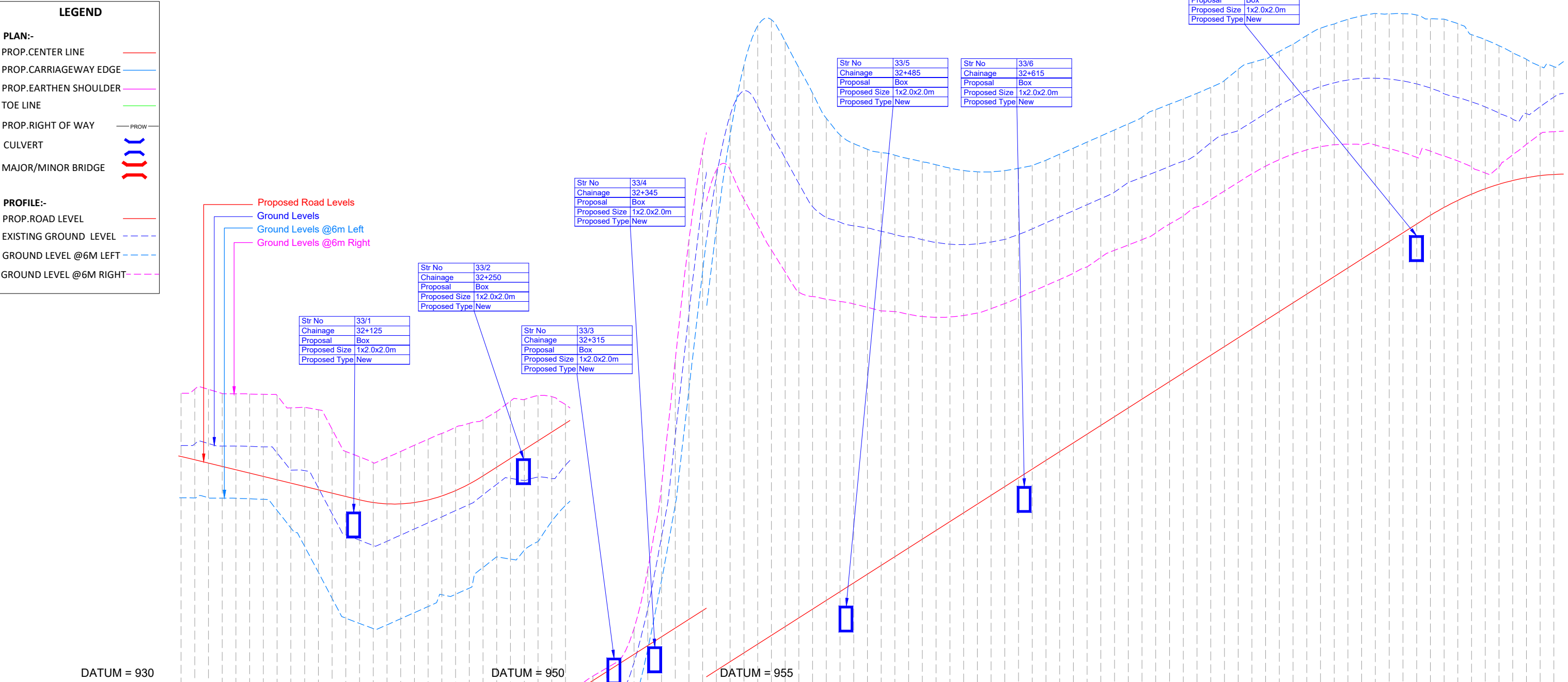
PROFILE:-

PROP.ROAD LEVEL

EXISTING GROUND LEVEL

GROUND LEVEL @6M LEFT

GROUND LEVEL @6M RIGHT



DATUM = 930	DATUM = 950	DATUM = 955
Proposed Road Levels	Ground Levels	Ground Levels @6m Left
Ground Levels @6m Right	Vertical Alignment	Horizontal Alignment
Chainage		

LEGEND

PLAN:-

PROP.CENTER LINE

PROP.CARRIAGEWAY EDGE

PROP.EARTHEN SHOULDER

TOE LINE

PROP.RIGHT OF WAY

CULVERT

MAJOR/MINOR BRIDGE

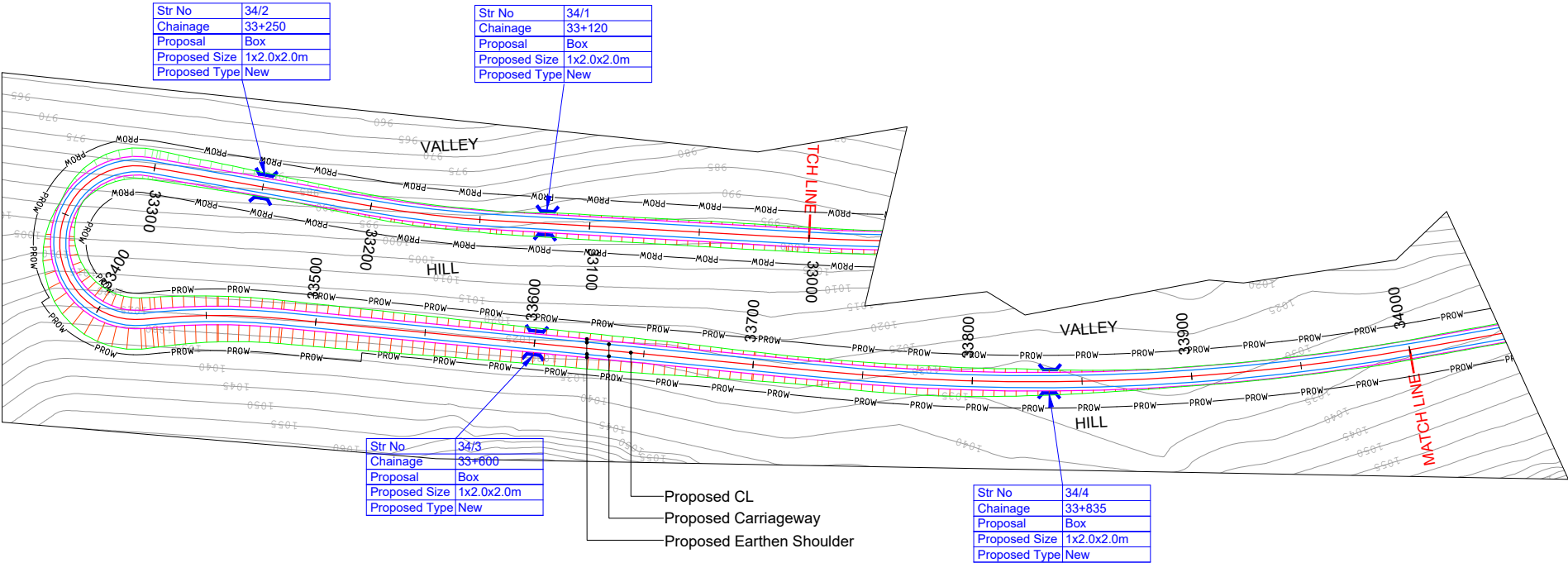
PROFILE:-

PROP.ROAD LEVEL

EXISTING GROUND LEVEL

GROUND LEVEL @6M LEFT

GROUND LEVEL @6M RIGHT



HIP NO. 233 AT CH. 33172.032				HIP NO. 234 AT CH. 33361.805				HIP NO. 235 AT CH. 33455.48				HIP NO. 236 AT CH. 33868.902			
X =	656837.829	Y =	3195947.461	X =	656736.8	Y =	3196028.637	X =	656943.839	Y =	3195938.901	X =	656601.428	Y =	3196172.261
R (m)	500	Ls (m)		R (m)	35	Ls (m)		R (m)	300	Ls (m)		R (m)	1000	Ls (m)	
Dc(deg)	6.8269	S(m)		Dc(deg)	195.349	S(m)		Dc(deg)	10.8421	S(m)		Dc(deg)	15.6931	S(m)	
Lc(m)	59.58	Ts(deg)		Lc(m)	119.33	Ts(deg)		Lc(m)	56.77	Ts(deg)		Lc(m)	273.9	Ts(deg)	
Ts(m)	29.823	Δ(deg)	6.8269	Ts(m)	-259.73	Δ(deg)	195.349	Ts(m)	28.47	Δ(deg)	10.8421	Ts(m)	137.811	Δ(deg)	15.6931
Es(m)	0.889	e(%)	-2.50%	Es(m)	-297.08	e(%)	10.00%	Es(m)	1.348	e(%)	3.70%	Es(m)	9.451	e(%)	-2.50%
V(km/hr)	50	We(m)	Nil	V(km/hr)	30	We(m)	1.5	V(km/hr)	50	We(m)	0.6	V(km/hr)	50	We(m)	Nil
CurveType	LEFT			CurveType	RIGHT			CurveType	LEFT			CurveType	LEFT		

R7	AUG 2023	FINAL DPR
R6	JAN 2023	MODIFIED DETAILED PROJECT REPORT
R5	JULY 2022	MODIFIED DETAILED PROJECT REPORT
R4	AUG 2019	MODIFIED DETAILED PROJECT REPORT
R3	JULY 2018	DETAILED PROJECT REPORT
REV.	DATE	DESCRIPTION OF REVISIONS

CLIENT:

National Highways & Infrastructure Development Corporation Limited.
3rd Floor, PTI building, 4-Parliament Street, New Delhi-11001

PROJECT:

Consultancy Services for Preparation of Feasibility study and Detailed Project Report for Two laning of Pango to Jorging Road (Length - 90km) for execution on EPC Mode in the state of Arunachal Pradesh under SARDP-NE Phase 'B'

DPR CONSULTANT:

Shweta Technophile Consultants Pvt. Ltd.
(222-223,313, Rajhans Plaza, Ahinsa Khand-I, Indirapuram, Ghaziabad, UP-201014)

DRAWN BY	ASHISH RAWAT
DESIGN BY	RAM SONKAR
CHECKED BY	GEETA JINDAL
HORIZONTAL SCALE 1:2000	VERTICAL SCALE 1:200

TITLE:

PLAN AND PROFILE
FROM CH:33+000 TO 34+000

DRAWING NO.
MORT&H/PANGO-JORGING/STC/PP-63

A3

LEGEND

PLAN:-

PROP.CENTER LINE

PROP.CARRIAGEWAY EDGE

PROP.EARTHEN SHOULDER

TOE LINE

PROP.RIGHT OF WAY

CULVERT

MAJOR/MINOR BRIDGE

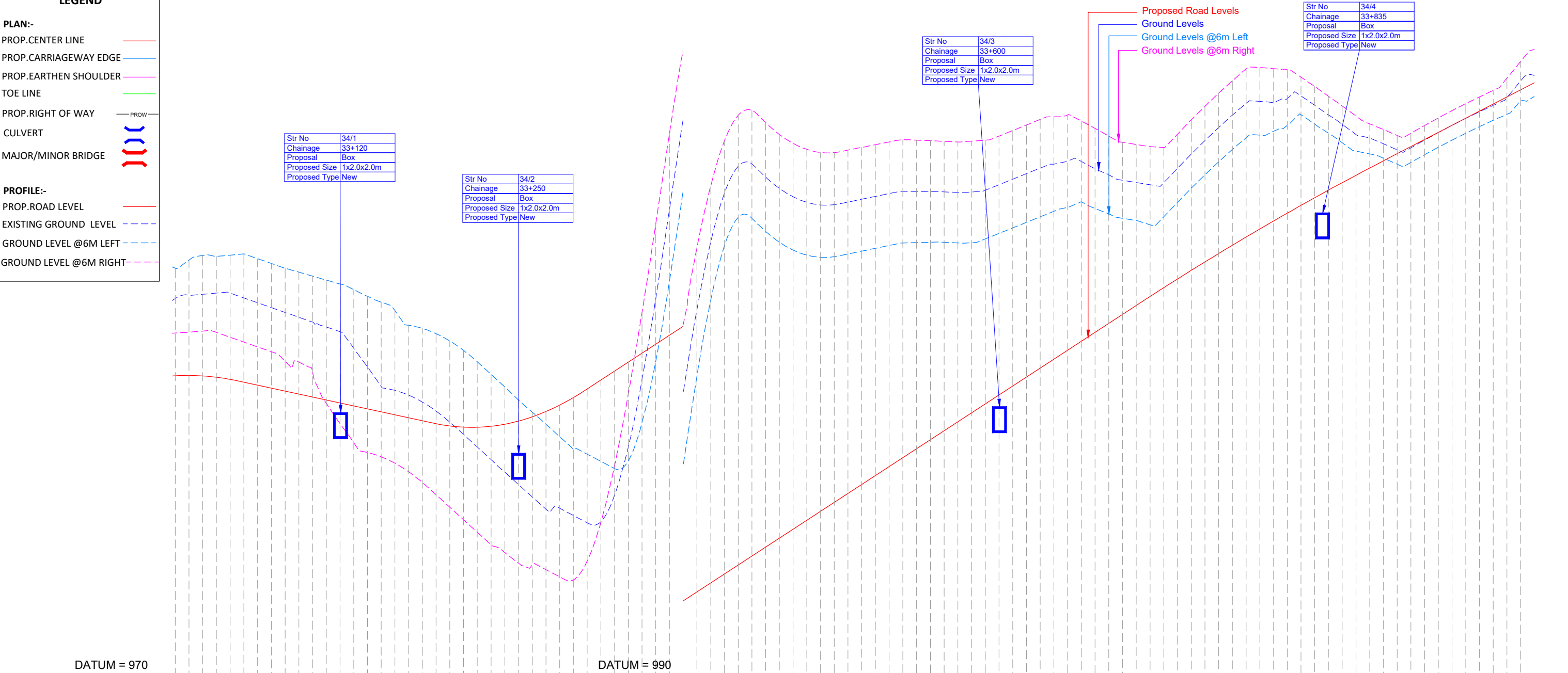
PROFILE:-

PROP.ROAD LEVEL

EXISTING GROUND LEVEL

GROUND LEVEL @6M LEFT

GROUND LEVEL @6M RIGHT



Proposed Road Levels	992.043	992.069	992.034	991.938	991.782	991.572	991.356	991.140	990.924	990.708	990.492	990.276	990.060	989.844	989.628	989.412	989.196	988.980	988.764	988.549	988.384	988.299	988.292	988.299	988.364	988.515	988.745	989.054	989.442	989.909	989.909	990.455	991.078	991.731	992.383	993.035	993.688	994.340	994.992	995.645	996.297	996.949	997.601	998.254	998.906	999.558	1000.211	1000.863	1001.515	1002.168	1002.820	1003.472	1004.125	1004.777	1005.429	1006.081	1006.734	1007.386	1008.038	1008.691	1009.343	1009.995	1010.648	1011.300	1011.952	1012.604	1013.257	1013.909	1014.561	1015.214	1015.866	1016.518	1017.171	1017.823	1018.475	1019.127	1019.779	1020.431	1021.083	1021.735	1022.387	1023.039	1023.691	1024.343	1024.995	1025.647	1026.299	1026.951	1027.603	1028.255	1028.907	1029.559	1030.211	1030.863	1031.515	1032.167	1032.819	1033.471	1034.123	1034.775	1035.427	1036.079	1036.731	1037.383	1038.035	1038.687	1039.339	1039.991	1040.643	1041.295	1041.947	1042.599	1043.251	1043.903	1044.555	1045.207	1045.859	1046.511	1047.163	1047.815	1048.467	1049.119	1049.771	1050.423	1051.075	1051.727	1052.379	1053.031	1053.683	1054.335	1054.987	1055.639	1056.291	1056.943	1057.595	1058.247	1058.899	1059.551	1060.203	1060.855	1061.507	1062.159	1062.811	1063.463	1064.115	1064.767	1065.419	1066.071	1066.723	1067.375	1068.027	1068.679	1069.331	1069.983	1070.635	1071.287	1071.939	1072.591	1073.243	1073.895	1074.547	1075.199	1075.851	1076.503	1077.155	1077.807	1078.459	1079.111	1079.763	1080.415	1081.067	1081.719	1082.371	1083.023	1083.675	1084.327	1084.979	1085.631	1086.283	1086.935	1087.587	1088.239	1088.891	1089.543	1090.195	1090.847	1091.499	1092.151	1092.803	1093.455	1094.107	1094.759	1095.411	1096.063	1096.715	1097.367	1098.019	1098.671	1099.323	1099.975	1100.627	1101.279	1101.931	1102.583	1103.235	1103.887	1104.539	1105.191	1105.843	1106.495	1107.147	1107.799	1108.451	1109.103	1109.755	1110.407	1111.059	1111.711	1112.363	1113.015	1113.667	1114.319	1114.971	1115.623	1116.275	1116.927	1117.579	1118.231	1118.883	1119.535	1120.187	1120.839	1121.491	1122.143	1122.795	1123.447	1124.099	1124.751	1125.403	1126.055	1126.707	1127.359	1128.011	1128.663	1129.315	1129.967	1130.619	1131.271	1131.923	1132.575	1133.227	1133.879	1134.531	1135.183	1135.835	1136.487	1137.139	1137.791	1138.443	1139.095	1139.747	1140.399	1141.051	1141.703	1142.355	1143.007	1143.659	1144.311	1144.963	1145.615	1146.267	1146.919	1147.571	1148.223	1148.875	1149.527	1150.179	1150.831	1151.483	1152.135	1152.787	1153.439	1154.091	1154.743	1155.395	1156.047	1156.699	1157.351	1158.003	1158.655	1159.307	1159.959	1160.611	1161.263	1161.915	1162.567	1163.219	1163.871	1164.523	1165.175	1165.827	1166.479	1167.131	1167.783	1168.435	1169.087	1169.739	1170.391	1171.043	1171.695	1172.347	1173.000	1173.652	1174.304	1174.956	1175.608	1176.260	1176.912	1177.564	1178.216	1178.868	1179.520	1180.172	1180.824	1181.476	1182.128	1182.780	1183.432	1184.084	1184.736	1185.388	1186.040	1186.692	1187.344	1187.996	1188.648	1189.300	1189.952	1190.604	1191.256	1191.908	1192.560	1193.212	1193.864	1194.516	1195.168	1195.820	1196.472	1197.124	1197.776	1198.428	1199.080	1199.732	1200.384	1201.036	1201.688	1202.340	1202.992	1203.644	1204.296	1204.948	1205.600	1206.252	1206.904	1207.556	1208.208	1208.860	1209.512	1210.164	1210.816	1211.468	1212.120	1212.772	1213.424	1214.076	1214.728	1215.380	1216.032	1216.684	1217.336	1217.988	1218.640	1219.292	1219.944	1220.596	1221.248	1221.900	1222.552	1223.204	1223.856	1224.508	1225.160	1225.812	1226.464	1227.116	1227.768	1228.420	1229.072	1229.724	1230.376	1231.028	1231.680	1232.332	1232.984	1233.636	1234.288	1234.940	1235.592	1236.244	1236.896	1237.548	1238.200	1238.852	1239.504	1240.156	1240.808	1241.460	1242.112	1242.764	1243.416	1244.068	1244.720	1245.372	1246.024	1246.676	1247.328	1247.980	1248.632	1249.284	1249.936	1250.588	1251.240	1251.892	1252.544	1253.196	1253.848	1254.500	1255.152	1255.804	1256.456	1257.108	1257.760	1258.412	1259.064	1259.716	1260.368	1261.020	1261.672	1262.324	1262.976	1263.628	1264.280	1264.932	1265.584	1266.236	1266.888	1267.540	1268.192	1268.844	1269.496	1270.148	1270.800	1271.452	1272.104	1272.756	1273.408	1274.060	1274.712	1275.364	1276.016	1276.668	1277.320	1277.972	1278.624	1279.276	1279.928	1280.580	1281.232	1281.884	1282.536	1283.188	1283.840	1284.492	1285.144	1285.796	1286.448	1287.100	1287.752	1288.404	1289.056	1289.708	1290.360	1291.012	1291.664	1292.316	1292.968	1293.620	1294.272	1294.924	1295.576	1296.228	1296.880	1297.532	1298.184	1298.836	1299.488	1300.140	1300.792	1301.444	1302.096	1302.748	1303.400	1304.052	1304.704	1305.356	1306.008	1306.660	1307.312	1307.964	1308.616	1309.268	1309.920	1310.572	1311.224	1311.876	1312.528	1313.180	1313.832	1314.484	1315.136	1315.788	1316.440	1317.092	1317.744	1318.396	1319.048	1319.700	1320.352	1321.004	1321.656	1322.308	1322.960	1323.612	1324.264	1324.916	1325.568	1326.220	1326.872	1327.524	1328.176	1328.828	1329.480	1330.132	1330.784	1331.436	1332.088	1332.740	1333.392	1334.044	1334.696	1335.348	1336.000	1336.652	1337.304	1337.956	1338.608	1339.260	1339.912	1340.564	1341.216	1341.868	1342.520	1343.172	1343.824	1344.476	1345.128	1345.780	1346.432	1347.084	1347.736	1348.388	1349.040	1349.692	1350.344	1350.996	1351.648	1352.300	1352.952	1353.604	1354.256	1354.908	1355.560	1356.212	1356.864	1357.516	1358.168	1358.820	1359.472	1360.124	1360.776	1361.428	1362.080	1362.732	1363.384	1364.036	1364.688	1365.340	1365.992	1366.644	1367.296	1367.948	1368.600	1369.252	1369.904	1370.556	1371.208	1371.860	1372.512	1373.164	1373.816	1374.468	1375.120	1375.772	1376.424	1377.076	1377.728	1378.380	1379.032	1379.684	1380.336	1380.988	1381.640	1382.292	1382.944	1383.596	1384.248	1384.900	1385.552	1386.204	1386.856	1387.508	1388.160	1388.812	1389.464	1390.116	1390.768	1391.420	1392.072	1392.724	1393.376	1394.028	1394.680	1395.332	1395.984	1396.636	1397.288	1397.940	1398.592	1399.244	1399.896	1400.548	1401.200	1401.852	1402.504	1403.156	1403.808	1404.460	1405.112	1405.764	1406.416	1407.068	1407.720	1408.372	1409.024	1409.676	1410.328	1410.980	1411.632	1412.284	1412.936	1413.588	1414.240	1414.892	1415.544	1416.196	1416.848	1417.500	1418.152	1418.804	1419.456	1420.108	1420.760	1421.412	1422.064	1422.716	1423.368	1424.020	1424.672	1425.324	1425.976	1426.628	1427.280	1427.932	1428.584	1429.236	1429.888	1430.540	1431.192	1431.844	1432.496	1433.148	1433.800	1434.452	1435.104	1435.756	1436.408	1437.060	1437.712	1438.364	1439.016	1439.668	1440.320	1440.972	1441.624	1442.276	1442.928	1443.580	1444.232	1444.884	1445.536	1446.188	1446.840	1447.492	1448.144	1448.796	1449.448	1450.100	1450.752	1451.404	1452.056	1452.708	1453.360	1454.012	1454.664	1455.316	1455.968	1456.620	1457.272	1457.924	1458.576	1459.228	1459.880	1460.532	1461.184	1461.836	1462.488	1463.140	1463.792	1464.444	1465.096	1465.748	1466.400	1467.052	1467.704	1468.356	1469.008	1469.660	1470.312	1470.964	1471.616	1472.268	1472.920	1473.572	1474.224	1474.876	1475.528	1476.180	1476.832	1477.484	1478.136	1478.788	1479.440	1480.092	1480.744	1481.396	1482.048	1482.700	1483.352	1484.004	1484.656	1485.308	1485.960	1486.612	1487.264	1487.916	1488.568	1489.220	1489.872	1490.524	1491.176	1491.828	1492.480	1493.132	1493.784	1494.436	1495.088	1495.740	1496.392	1497.044	1497.696	1498.348	1499.000	1499.652	1500.304	1500.956	1501.608	1502.260	1502.912	1503.564	1504.216	1504.868	1505.520	1506.172	1506.824	1507.476	1508.128	1508.780	1509.432	1510.084	1510.736	1511.388	1512.040	1512.692	1513.344	1513.996	1514.648	1515.300	1515.952	1516.604	1517.256	1517.908	1518.560	1519.212	1519.86
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LEGEND

PLAN:-

PROP.CENTER LINE

PROP.CARRIAGEWAY EDGE

PROP.EARTHEN SHOULDER

TOE LINE

PROP.RIGHT OF WAY

CULVERT

MAJOR/MINOR BRIDGE

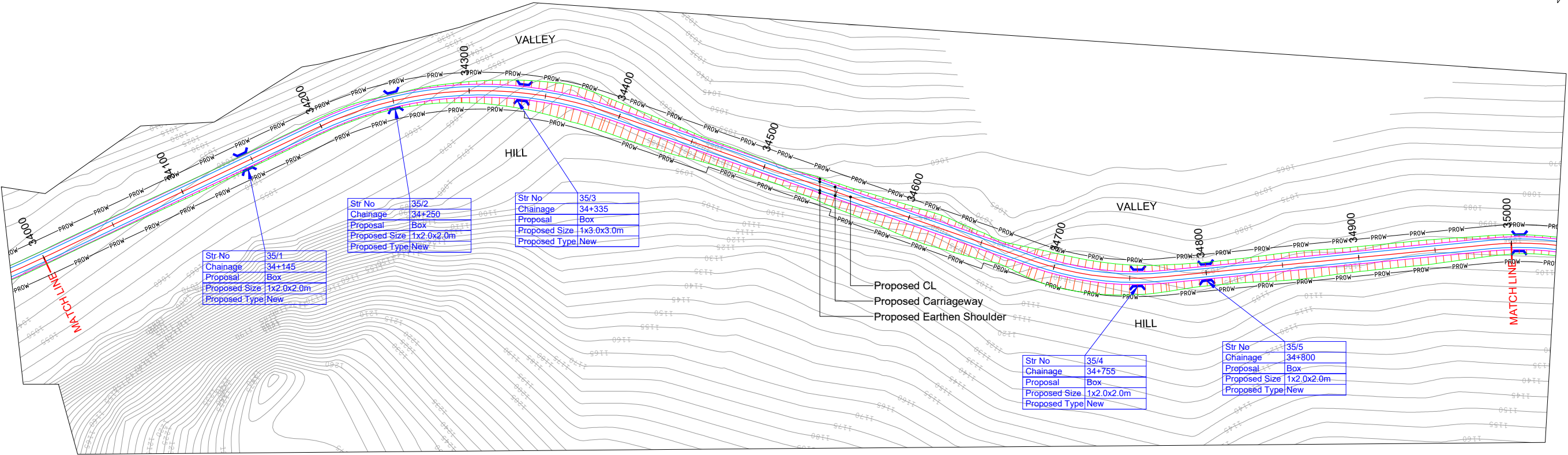
PROFILE:-

PROP.ROAD LEVEL

EXISTING GROUND LEVEL

GROUND LEVEL @6M LEFT

GROUND LEVEL @6M RIGHT



HIP NO. 237 AT CH. 34294.504				HIP NO. 238 AT CH. 34729.885			
X = 656192.232	Y = 3196309.827			X = 655993.243	Y = 3196703.73		
R (m)	250	Ls (m)		R (m)	200	Ls (m)	
Dc(deg)	44.6165	S(m)		Dc(deg)	24.877	S(m)	
Lc(m)	194.68	Ts(deg)		Lc(m)	86.84	Ts(deg)	
Ts(m)	102.574	Δ(deg)	44.6165	Ts(m)	44.114	Δ(deg)	24.877
Es(m)	20.225	e(%)	4.44%	Es(m)	4.807	e(%)	5.56%
V(km/hr)	50	We(m)	0.6	V(km/hr)	50	We(m)	0.6
CurveType	RIGHT			CurveType	LEFT		

LEGEND

PLAN:-

PROP.CENTER LINE

PROP.CARRIAGEWAY EDGE

PROP.EARTHEN SHOULDER

TOE LINE

PROP.RIGHT OF WAY

CULVERT

MAJOR/MINOR BRIDGE

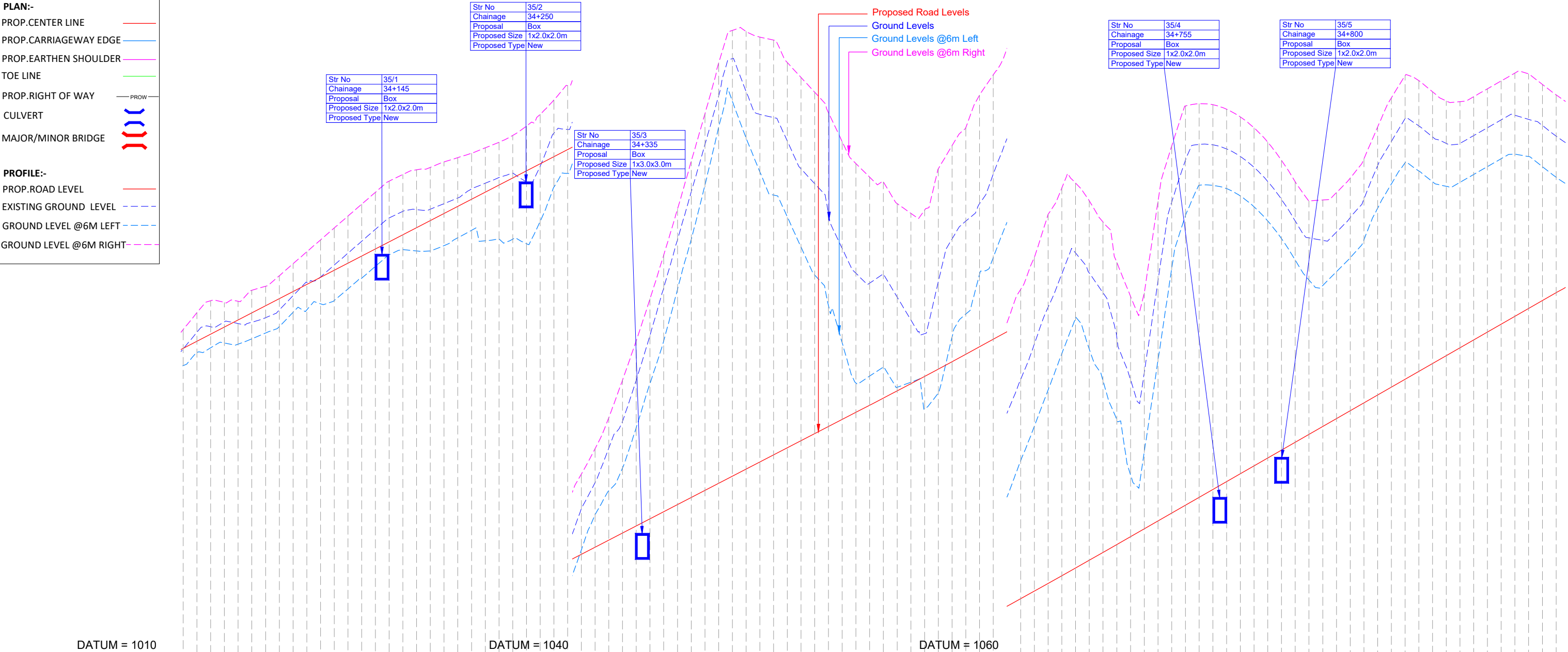
PROFILE:-

PROP.ROAD LEVEL

EXISTING GROUND LEVEL

GROUND LEVEL @6M LEFT

GROUND LEVEL @6M RIGHT

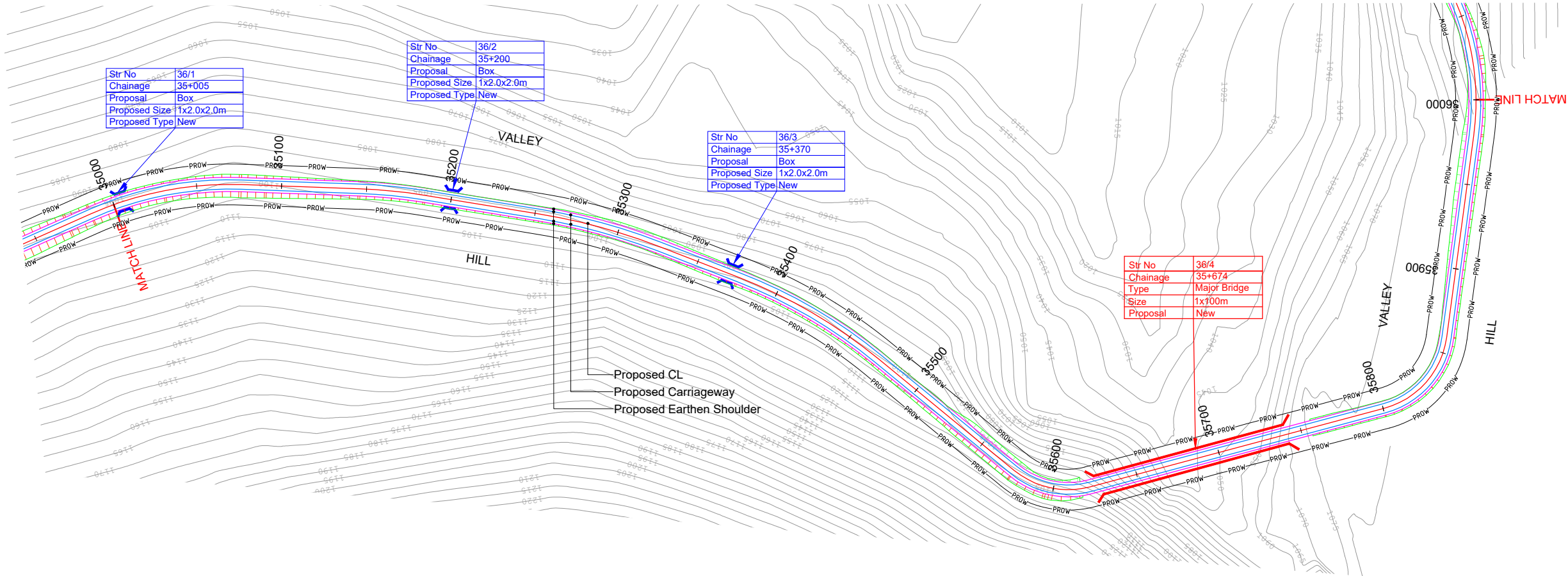


DATUM = 1010	DATUM = 1040	DATUM = 1060
Proposed Road Levels	Ground Levels	Ground Levels @6m Left
Ground Levels @6m Right	Vertical Alignment	Horizontal Alignment
Chainage		

LEGEND

PLAN:-
PROP.CENTER LINE
PROP.CARRIAGEWAY EDGE
PROP.EARTHEN SHOULDER
TOE LINE
PROP.RIGHT OF WAY
CULVERT
MAJOR/MINOR BRIDGE

PROFILE:-
PROP.ROAD LEVEL
EXISTING GROUND LEVEL
GROUND LEVEL @6M LEFT
GROUND LEVEL @6M RIGHT



HIP NO. 239 AT CH. 35031.082					HIP NO. 240 AT CH. 35165.009					HIP NO. 241 AT CH. 35289.154					HIP NO. 242 AT CH. 35423.585					HIP NO. 243 AT CH. 35598.069					HIP NO. 244 AT CH. 35830.029				
X = 655755.774		Y = 3196891.415			X = 655697.272		Y = 3197012.794			X = 655657.768		Y = 3197130.652			X = 655642.23		Y = 3197264.722			X = 655677.76		Y = 3197437.953			X = 655516.45		Y = 3197612.735		
R (m)	200	Ls (m)			R (m)	300	Ls (m)			R (m)	350	Ls (m)			R (m)	300	Ls (m)			R (m)	50	Ls (m)			R (m)	50	Ls (m)		
Dc(deg)	25.9458	S(m)			Dc(deg)	7.2025	S(m)			Dc(deg)	11.9195	S(m)			Dc(deg)	18.2019	S(m)			Dc(deg)	54.2958	S(m)			Dc(deg)	67.3959	S(m)		
Lc(m)	90.57	Ts(deg)			Lc(m)	37.71	Ts(deg)			Lc(m)	72.81	Ts(deg)			Lc(m)	95.31	Ts(deg)			Lc(m)	47.38	Ts(deg)			Lc(m)	58.81	Ts(deg)		
Ts(m)	46.074	Δ(deg)	25.9458		Ts(m)	18.881	Δ(deg)	7.2025		Ts(m)	36.538	Δ(deg)	11.9195		Ts(m)	48.057	Δ(deg)	18.2019		Ts(m)	25.639	Δ(deg)	54.2958		Ts(m)	33.343	Δ(deg)	67.3959	
Es(m)	5.238	e(%)	5.56%		Es(m)	0.594	e(%)	3.70%		Es(m)	1.902	e(%)	3.17%		Es(m)	3.825	e(%)	3.70%		Es(m)	6.19	e(%)	10.00%		Es(m)	10.098	e(%)	10.00%	
V(km/hr)	50	We(m)	0.6		V(km/hr)	50	We(m)	0.6		V(km/hr)	50	We(m)	Nil		V(km/hr)	50	We(m)	0.6		V(km/hr)	40	We(m)	1.2		V(km/hr)	40	We(m)	1.2	
CurveType	RIGHT				CurveType	RIGHT				CurveType	RIGHT				CurveType	RIGHT				CurveType	LEFT				CurveType	LEFT			

R7	AUG 2023	FINAL DPR
R6	JAN 2023	MODIFIED DETAILED PROJECT REPORT
R5	JULY 2022	MODIFIED DETAILED PROJECT REPORT
R4	AUG 2019	MODIFIED DETAILED PROJECT REPORT
R3	JULY 2018	DETAILED PROJECT REPORT
REV.	DATE	DESCRIPTION OF REVISIONS

CLIENT:



National Highways & Infrastructure Development Corporation Limited.
3rd Floor, PTI building, 4-Parliament Street, New Delhi-11001

PROJECT:

Consultancy Services for Preparation of Feasibility study and Detailed Project Report for Two laning of Pango to Jorging Road (Length - 90km) for execution on EPC Mode in the state of Arunachal Pradesh under SARDP-NE Phase 'B'

DPR CONSULTANT:



Shweta Technophile Consultants Pvt. Ltd.
(222-223,313, Rajhans Plaza, Ahinsa Khand-I, Indirapuram, Ghaziabad, UP-201014)

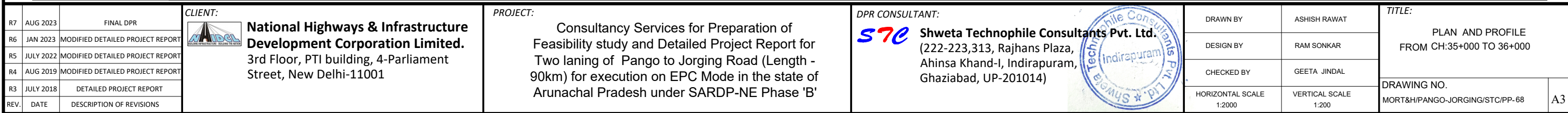
DRAWN BY	ASHISH RAWAT
DESIGN BY	RAM SONKAR
CHECKED BY	GEETA JINDAL
HORIZONTAL SCALE 1:2000	VERTICAL SCALE 1:200

TITLE:

PLAN AND PROFILE
FROM CH:35+000 TO 36+000

DRAWING NO.
MORT&H/PANGO-JORGING/STC/PP-67

A3



LEGEND

PLAN:-

PROP.CENTER LINE

PROP.CARRIAGEWAY EDGE

PROP.EARTHEN SHOULDER

TOE LINE

PROP.RIGHT OF WAY

CULVERT

MAJOR/MINOR BRIDGE

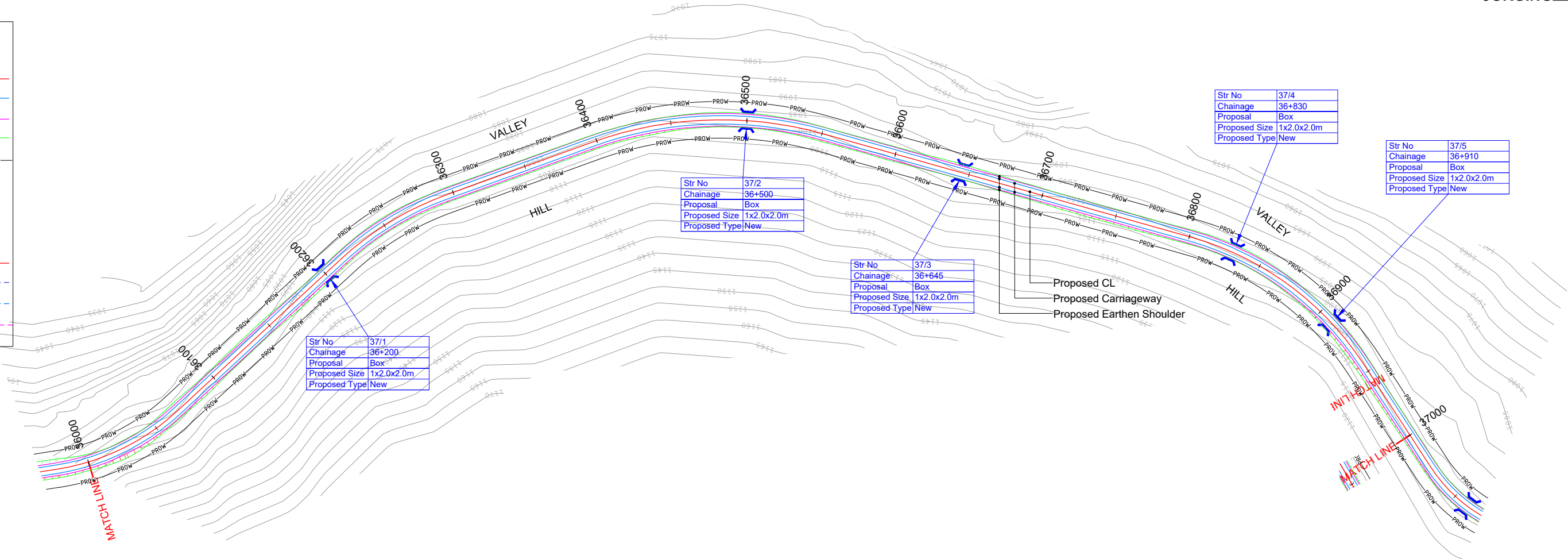
PROFILE:-

PROP.ROAD LEVEL

EXISTING GROUND LEVEL

GROUND LEVEL @6M LEFT

GROUND LEVEL @6M RIGHT



HIP NO. 245 AT CH. 36023.385				HIP NO. 246 AT CH. 36254.465				HIP NO. 247 AT CH. 36473.842				HIP NO. 248 AT CH. 36872.72299999999			
X = 655329.911		Y = 3197544.47		X = 655193.094		Y = 3197355.907		X = 655002.559		Y = 3197240.978		X = 654599.059		Y = 3197272.556	
R (m)	150	Ls (m)		R (m)	200	Ls (m)		R (m)	250	Ls (m)		R (m)	200	Ls (m)	
Dc(deg)	33.9355	S(m)		Dc(deg)	22.9378	S(m)		Dc(deg)	35.5729	S(m)		Dc(deg)	41.1713	S(m)	
Lc(m)	88.84	Ts(deg)		Lc(m)	80.07	Ts(deg)		Lc(m)	155.22	Ts(deg)		Lc(m)	143.72	Ts(deg)	
Ts(m)	45.767	Δ(deg)	33.9355	Ts(m)	40.577	Δ(deg)	22.9378	Ts(m)	80.201	Δ(deg)	35.5729	Ts(m)	75.118	Δ(deg)	41.1713
Es(m)	6.827	e(%)	7.41%	Es(m)	4.075	e(%)	5.56%	Es(m)	12.549	e(%)	4.44%	Es(m)	13.642	e(%)	5.56%
V(km/hr)	50	We(m)	0.6	V(km/hr)	50	We(m)	0.6	V(km/hr)	50	We(m)	0.6	V(km/hr)	50	We(m)	0.6
CurveType	LEFT			CurveType	RIGHT			CurveType	RIGHT			CurveType	RIGHT		

LEGEND

PLAN:-

PROP.CENTER LINE

PROP.CARRIAGEWAY EDGE

PROP.EARTHEN SHOULDER

TOE LINE

PROP.RIGHT OF WAY

CULVERT

MAJOR/MINOR BRIDGE

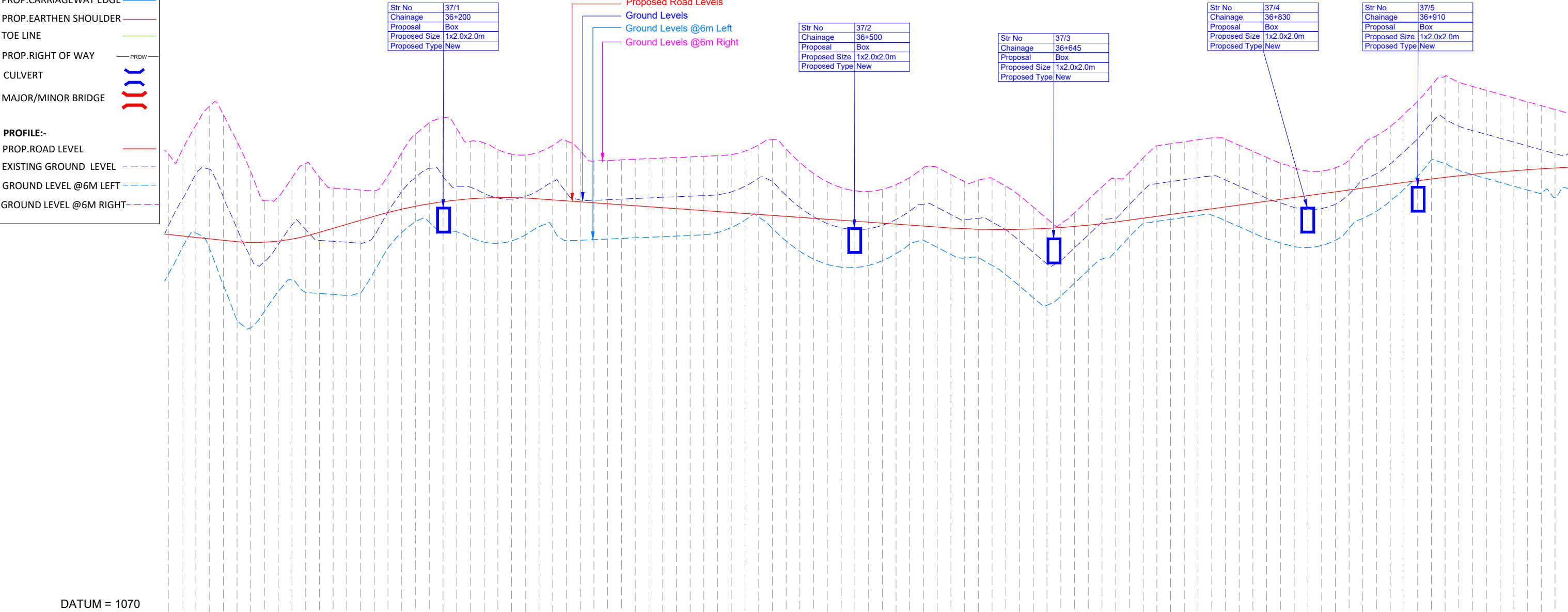
PROFILE:-

PROP.ROAD LEVEL

EXISTING GROUND LEVEL

GROUND LEVEL @6M LEFT

GROUND LEVEL @6M RIGHT



DATUM = 1070	1103.519	1094.752	1098.277	1097.856
Proposed Road Levels	1103.783	1096.663	1100.200	1097.549
Ground Levels	1105.603	1097.743	1102.046	1097.443
Ground Levels @6m Left	1107.007	1096.623	1102.401	1097.337
Ground Levels @6m Right	1106.402	1093.973	1100.384	1097.231
Vertical Alignment	1104.423	1091.423	1098.084	1097.128
Horizontal Alignment	1102.204	1090.862	1095.964	1097.076
Chainage	1100.132	1092.054	1095.671	1097.091
	1100.386	1093.479	1096.916	1097.172
	1101.773	1094.356	1098.324	1097.320
	1102.826	1093.438	1098.012	1097.534
	1101.822	1093.355	1097.231	1097.812
	1101.033	1093.285	1097.156	1098.105
	1100.957	1093.216	1097.086	1098.398
	1100.888	1093.405	1097.017	1098.692
	1100.818	1094.963	1097.579	1098.984
	1101.946	1096.678	1099.294	1099.256
	1103.621	1097.789	1100.781	1099.497
	1104.951	1098.587	1101.806	1099.708
	1105.794	1098.541	1102.456	1099.888
	1106.136	1097.865	1101.859	1100.038
	1105.372	1097.854	1101.143	1100.158
	1104.436	1097.432	1101.085	1100.248
	1104.317	1097.101	1100.639	1100.307
	1103.834	1097.009	1100.300	1100.336
	1103.503	1097.182	1100.226	1100.335
	1103.439	1097.612	1100.416	1100.303
	1103.660	1098.228	1100.881	1100.242
	1104.141	1098.131	1101.487	1100.171
	1104.471	1097.194	1100.689	1100.100
	1103.766	1097.236	1100.157	1100.030
	1103.000	1097.279	1100.140	1099.959
	1103.043	1097.322	1100.183	1099.888
	1103.086	1097.366	1100.226	1099.818
	1103.129	1097.409	1100.269	1099.747
	1103.172	1097.452	1100.312	1099.676
	1103.215	1097.495	1100.355	1099.605
	1103.258	1097.538	1100.398	1099.535
	1103.301	1097.581	1100.441	1099.464
	1103.344	1097.631	1100.484	1099.393
	1103.387	1097.680	1100.543	1099.323
	1103.468	1098.155	1100.755	1099.252
	1103.724	1098.702	1101.162	1099.181
	1104.174	1098.928	1101.759	1099.111
	1104.550	1098.096	1101.524	1099.040
	1103.878	1097.171	1100.482	1098.969
	1102.892	1096.429	1099.624	1098.898
	1102.097	1095.864	1098.945	1098.828
	1101.489	1095.477	1098.448	1098.757
	1101.066	1095.269	1098.137	1098.686
	1100.833	1095.246	1098.014	1098.616
	1100.793	1095.402	1098.072	1098.545
	1100.939	1095.736	1098.314	1098.474
	1101.273	1096.251	1098.743	1098.404
	1101.801	1096.948	1099.357	1098.333
	1102.513	1097.232	1099.856	1098.262
	1102.527	1096.716	1099.621	1098.192
	1102.011	1096.200	1099.105	1098.125
	1101.495	1095.944	1098.740	1098.073
	1101.604	1095.972	1098.834	1098.037
	1101.738	1095.396	1098.566	1098.017
	1101.162	1094.726	1097.990	1098.014
	1100.479	1093.899	1097.197	1098.026
	1099.649	1093.051	1096.349	1098.054
	1098.801	1092.500	1095.501	1098.098
	1098.431	1093.161	1095.739	1098.158
	1099.234	1094.105	1096.670	1098.235
	1100.178	1095.048	1097.614	1098.327
	1101.116	1095.864	1098.550	1098.435
	1101.731	1096.414	1098.821	1098.559
	1102.178	1097.481	1099.820	1098.695
	1103.223	1098.456	1100.850	1098.832
	1104.112	1098.602	1101.357	1098.969
	1104.258	1098.748	1101.503	1099.106
	1104.404	1098.895	1101.649	1099.243
	1104.550	1099.041	1101.796	1099.380
	1104.687	1099.063	1101.917	1099.517
	1104.589	1098.654	1101.621	1099.654
	1104.148	1098.213	1101.180	1099.791
	1103.707	1097.772	1100.739	1099.928
	1103.266	1097.347	1100.298	1100.065
	1102.844	1097.025	1099.954	1100.202
	1102.505	1096.772	1099.623	1100.339
	1102.270	1096.698	1099.471	1100.476
	1102.266	1096.846	1099.547	1100.613
	1102.509	1097.220	1099.856	1100.750
	1103.059	1098.097	1100.583	1100.887
	1104.170	1098.829	1101.632	1101.025
	1104.848	1099.344	1102.092	1101.162
	1105.502	1100.084	1102.793	1101.299
	1106.407	1100.950	1103.681	1101.436
	1107.351	1101.911	1104.633	1101.569
	1108.482	1103.069	1105.772	1101.695
	1109.178	1102.849	1106.067	1101.814
	1108.740	1102.319	1105.529	1101.925
	1108.429	1102.008	1105.218	1102.029
	1107.870	1101.448	1104.658	1102.125
	1107.590	1101.168	1104.378	1102.213
	1107.310	1100.888	1104.098	1102.368
	1107.030	1100.669	1103.819	1102.434



LEGEND

PLAN:-

PROP.CENTER LINE

PROP.CARRIAGEWAY EDGE

PROP.EARTHEN SHOULDER

TOE LINE

PROP.RIGHT OF WAY

CULVERT

MAJOR/MINOR BRIDGE

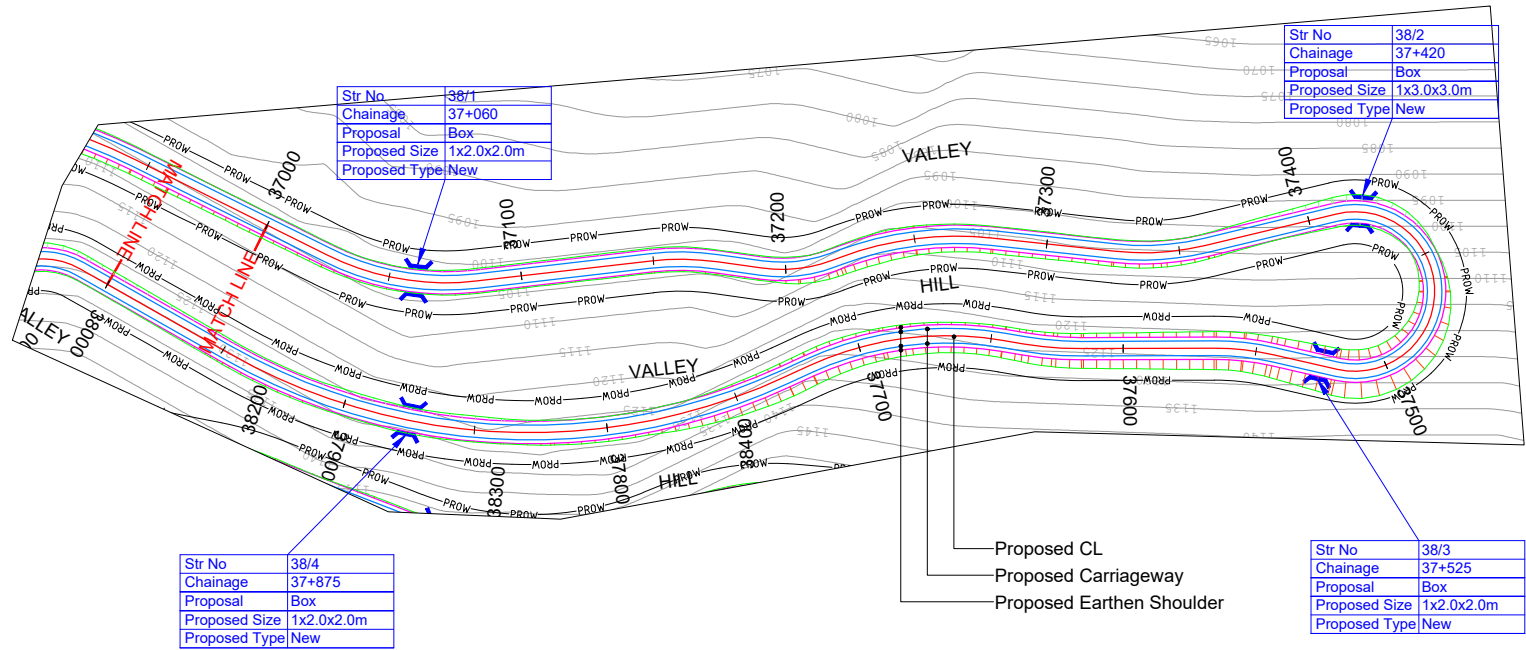
PROFILE:-

PROP.ROAD LEVEL

EXISTING GROUND LEVEL

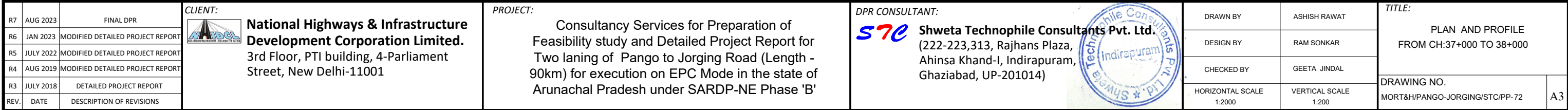
GROUND LEVEL @6M LEFT

GROUND LEVEL @6M RIGHT



HIP NO. 249 AT CH. 37054.039	HIP NO. 250 AT CH. 37161.456	HIP NO. 251 AT CH. 37204.403	HIP NO. 252 AT CH. 37250.314	HIP NO. 253 AT CH. 37342.908	HIP NO. 254 AT CH. 37464.689	HIP NO. 255 AT CH. 37554.396
X = 654469.447 Y = 3197405.124	X = 654363.754 Y = 3197428.797	X = 654325.253 Y = 3197448.627	X = 654278.531 Y = 3197447.584	X = 654194.206 Y = 3197487.506	X = 654253.841 Y = 3197481.578	X = 654175.792 Y = 3197530.518
R (m) 100 Ls (m)	R (m) 100 Ls (m)	R (m) 55 Ls (m)	R (m) 125 Ls (m)	R (m) 100 Ls (m)	R (m) 30 Ls (m)	R (m) 100 Ls (m)
Dc(deg) 33.0213 S(m)	Dc(deg) 14.627 S(m)	Dc(deg) 28.5302 S(m)	Dc(deg) 26.6132 S(m)	Dc(deg) 19.6576 S(m)	Dc(deg) 206.4119 S(m)	Dc(deg) 13.0898 S(m)
Lc(m) 57.63 Ts(deg)	Lc(m) 25.53 Ts(deg)	Lc(m) 27.39 Ts(deg)	Lc(m) 58.06 Ts(deg)	Lc(m) 34.31 Ts(deg)	Lc(m) 108.08 Ts(deg)	Lc(m) 22.85 Ts(deg)
Ts(m) 29.642 Δ(deg) 33.0213	Ts(m) 12.834 Δ(deg) 14.627	Ts(m) 13.984 Δ(deg) 28.5302	Ts(m) 29.564 Δ(deg) 26.6132	Ts(m) 17.325 Δ(deg) 19.6576	Ts(m) -127.846 Δ(deg) 206.4119	Ts(m) 11.473 Δ(deg) 13.0898
Es(m) 4.301 e(%) 10.00%	Es(m) 0.82 e(%) 10.00%	Es(m) 1.75 e(%) 10.00%	Es(m) 3.449 e(%) 8.89%	Es(m) 1.49 e(%) 10.00%	Es(m) -161.319 e(%) 10.00%	Es(m) 0.656 e(%) 10.00%
V(km/hr) 50 We(m) 0.9	V(km/hr) 50 We(m) 0.9	V(km/hr) 40 We(m) 1.2	V(km/hr) 50 We(m) 0.6	V(km/hr) 50 We(m) 0.9	V(km/hr) 30 We(m) 1.5	V(km/hr) 50 We(m) 0.9
CurveType LEFT	CurveType RIGHT	CurveType LEFT	CurveType RIGHT	CurveType RIGHT	CurveType LEFT	CurveType RIGHT

HIP NO. 256 AT CH. 37626.596	HIP NO. 257 AT CH. 37682.756	HIP NO. 258 AT CH. 37838.902
X = 654244.132 Y = 3197506.987	X = 654294.33 Y = 3197479.243	X = 654459.814 Y = 3197495.045
R (m) 125 Ls (m)	R (m) 125 Ls (m)	R (m) 230 Ls (m)
Dc(deg) 9.93 S(m)	Dc(deg) 34.3839 S(m)	Dc(deg) 54.2252 S(m)
Lc(m) 21.66 Ts(deg)	Lc(m) 75.01 Ts(deg)	Lc(m) 217.67 Ts(deg)
Ts(m) 10.859 Δ(deg) 9.93	Ts(m) 38.675 Δ(deg) 34.3839	Ts(m) 117.761 Δ(deg) 54.2252
Es(m) 0.471 e(%) 8.89%	Es(m) 5.846 e(%) 8.89%	Es(m) 28.394 e(%) 4.83%
V(km/hr) 50 We(m) 0.6	V(km/hr) 50 We(m) 0.6	V(km/hr) 50 We(m) 0.6
CurveType RIGHT	CurveType LEFT	CurveType LEFT



LEGEND

PLAN:-

PROP.CENTER LINE

PROP.CARRIAGEWAY EDGE

PROP.EARTHEN SHOULDER

TOE LINE

PROP.RIGHT OF WAY

CULVERT

MAJOR/MINOR BRIDGE

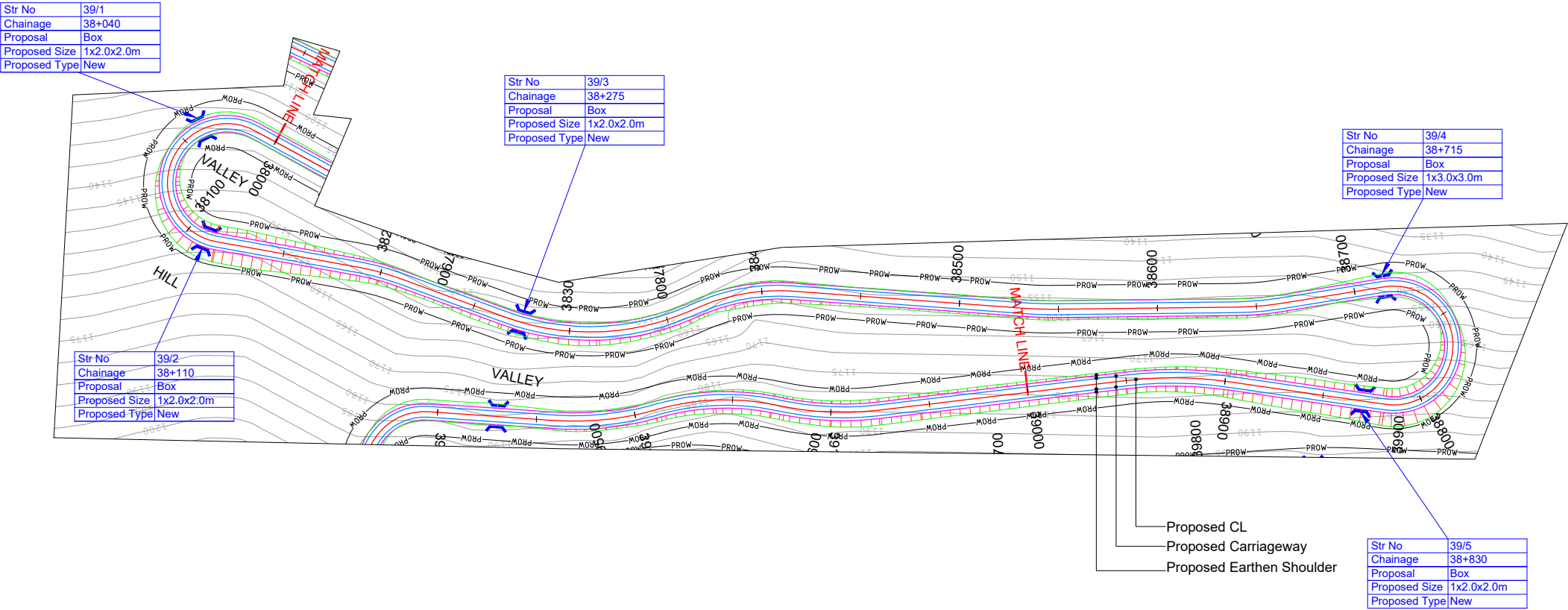
PROFILE:-

PROP.ROAD LEVEL

EXISTING GROUND LEVEL

GROUND LEVEL @6M LEFT

GROUND LEVEL @6M RIGHT



HIP NO. 259 AT CH. 38063.6				HIP NO. 260 AT CH. 38199.215				HIP NO. 261 AT CH. 38313.533				HIP NO. 262 AT CH. 38391.684				HIP NO. 263 AT CH. 38540.622				HIP NO. 264 AT CH. 38650.99				HIP NO. 265 AT CH. 38766.781				HIP NO. 266 AT CH. 38924.153			
X = 654457.627		Y = 3197497.541		X = 654545.046		Y = 3197446.359		X = 654456.076		Y = 3197521.922		X = 654375.189		Y = 3197517.769		X = 654239.108		Y = 3197579.441		X = 654135.082		Y = 3197616.387		X = 654264.798		Y = 3197591.05		X = 654185.253		Y = 3197634.114	
R (m)	30	Ls (m)		R (m)	125	Ls (m)		R (m)	125	Ls (m)		R (m)	100	Ls (m)		R (m)	150	Ls (m)		R (m)	150	Ls (m)		R (m)	30	Ls (m)		R (m)	200	Ls (m)	
Dc(deg)	198.4229	S(m)		Dc(deg)	9.9938	S(m)		Dc(deg)	43.2808	S(m)		Dc(deg)	27.3198	S(m)		Dc(deg)	4.827	S(m)		Dc(deg)	8.5012	S(m)		Dc(deg)	197.3763	S(m)		Dc(deg)	15.1126	S(m)	
Lc(m)	103.89	Ts(deg)		Lc(m)	21.8	Ts(deg)		Lc(m)	94.42	Ts(deg)		Lc(m)	47.68	Ts(deg)		Lc(m)	12.64	Ts(deg)		Lc(m)	22.26	Ts(deg)		Lc(m)	103.35	Ts(deg)		Lc(m)	52.75	Ts(deg)	
Ts(m)	-184.99	Δ(deg)	198.4229	Ts(m)	10.929	Δ(deg)	9.9938	Ts(m)	49.593	Δ(deg)	43.2808	Ts(m)	24.303	Δ(deg)	27.3198	Ts(m)	6.322	Δ(deg)	4.827	Ts(m)	11.148	Δ(deg)	8.5012	Ts(m)	-196.322	Δ(deg)	197.3763	Ts(m)	26.53	Δ(deg)	15.1126
Es(m)	-217.40	e(%)	10.00%	Es(m)	0.477	e(%)	8.89%	Es(m)	9.478	e(%)	8.89%	Es(m)	2.911	e(%)	10.00%	Es(m)	0.133	e(%)	7.41%	Es(m)	0.414	e(%)	7.41%	Es(m)	-228.60	e(%)	10.00%	Es(m)	1.752	e(%)	5.56%
V(km/hr)	30	We(m)	1.5	V(km/hr)	50	We(m)	0.6	V(km/hr)	50	We(m)	0.6	V(km/hr)	50	We(m)	0.9	V(km/hr)	50	We(m)	0.6	V(km/hr)	50	We(m)	0.6	V(km/hr)	30	We(m)	1.5	V(km/hr)	50	We(m)	0.6
CurveType	RIGHT			CurveType	LEFT			CurveType	RIGHT			CurveType	LEFT			CurveType	RIGHT			CurveType	RIGHT			CurveType	LEFT			CurveType	RIGHT		

LEGEND

PLAN:-

PROP.CENTER LINE

PROP.CARRIAGEWAY EDGE

PROP.EARTHEN SHOULDER

TOE LINE

PROP.RIGHT OF WAY

CULVERT

MAJOR/MINOR BRIDGE

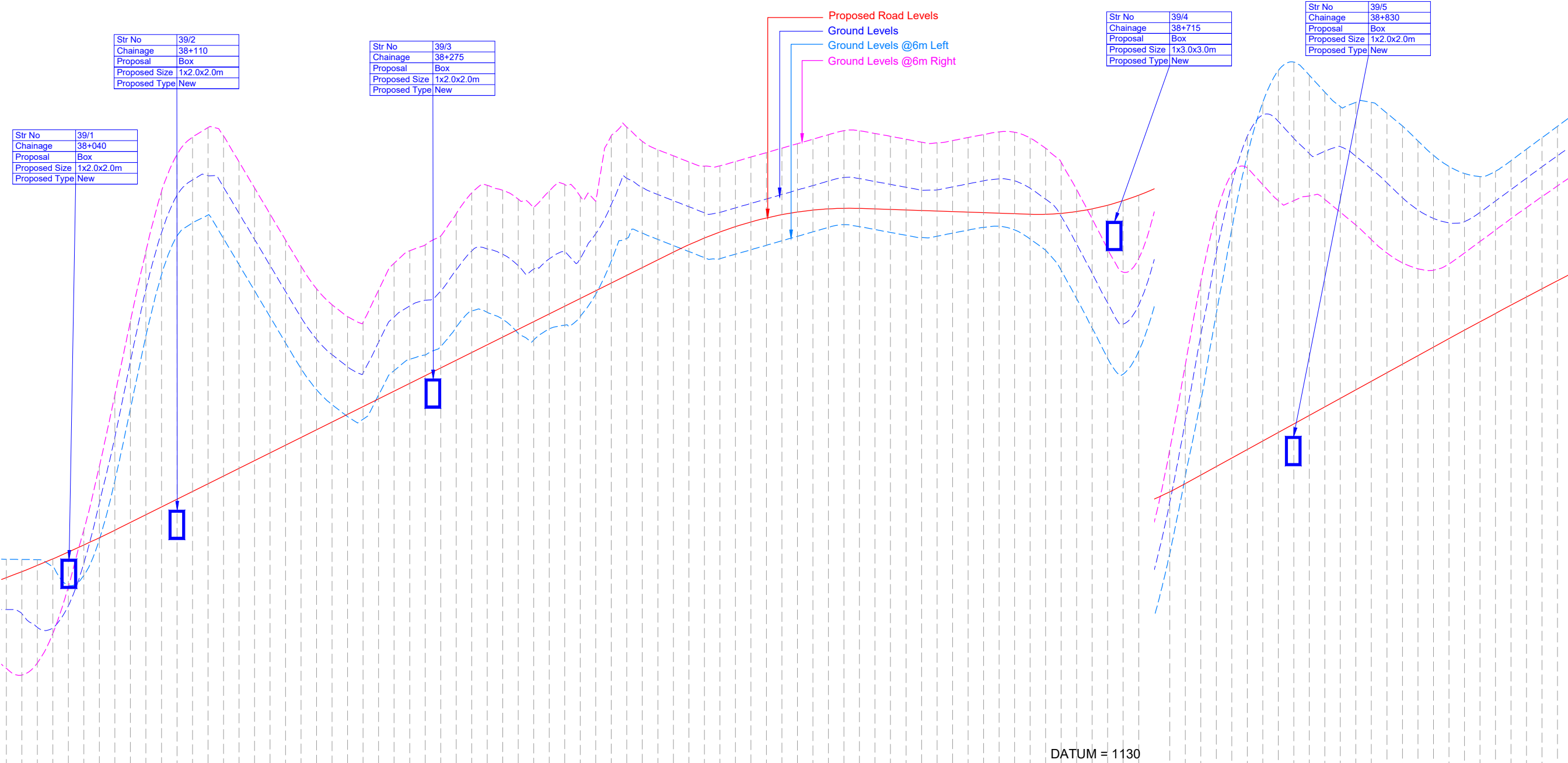
PROFILE:-

PROP.ROAD LEVEL

EXISTING GROUND LEVEL

GROUND LEVEL @6M LEFT

GROUND LEVEL @6M RIGHT

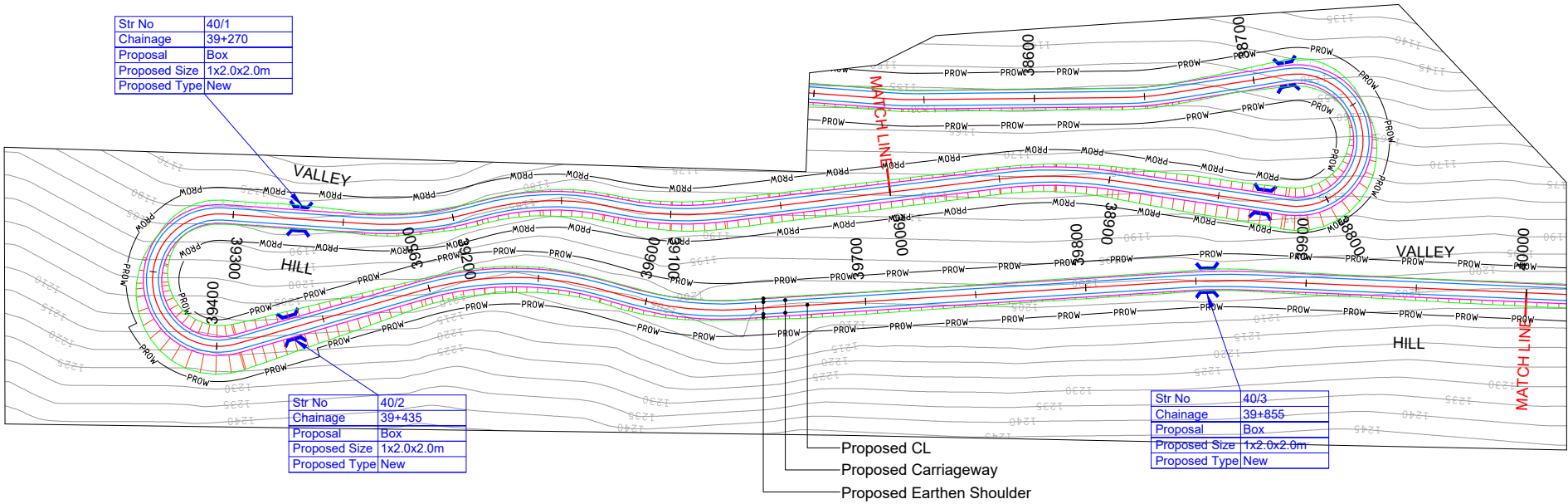


Chainage	Horizontal Alignment		Vertical Alignment		Ground Levels @6m Right	Ground Levels @6m Left	Ground Levels	Proposed Road Levels
38000.000			R =6300.202 L =120.000		1126.269	1133.301	1130.059	1132.112
38010.000					1125.835	1133.288	1129.789	1131.502
38020.000					1126.620	1133.276	1128.909	1132.308
38030.000					1128.525	1132.798	1128.873	1133.330
38040.000					1131.544	1131.624	1130.308	1133.767
38050.000					1135.218	1132.286	1133.053	1134.221
38060.000					1139.311	1134.579	1136.929	1134.690
38070.000					1143.879	1138.375	1141.192	1135.175
38080.000					1148.647	1143.001	1146.056	1135.672
38090.000					1153.156	1147.693	1150.720	1136.170
38100.000					1156.909	1151.625	1154.347	1136.668
38110.000					1159.376	1154.131	1156.751	1137.166
38120.000					1160.511	1154.973	1157.750	1137.663
38130.000					1161.125	1155.488	1158.029	1138.161
38140.000					1160.593	1153.983	1157.292	1138.659
38150.000					1158.923	1152.300	1155.609	1139.157
38160.000					1157.240	1150.617	1153.926	1139.654
38170.000					1155.557	1148.934	1152.243	1140.152
38180.000					1153.874	1147.251	1150.561	1140.650
38190.000					1152.192	1145.590	1148.888	1141.147
38200.000					1150.735	1144.231	1147.479	1141.645
38210.000					1149.711	1143.266	1146.486	1142.143
38220.000					1148.937	1142.492	1145.712	1142.641
38230.000					1148.584	1142.326	1145.309	1143.138
38240.000					1150.651	1143.891	1147.296	1143.636
38250.000					1152.398	1145.462	1148.926	1144.134
38260.000					1153.190	1146.189	1149.618	1144.632
38270.000					1153.574	1146.463	1149.999	1145.129
38280.000					1154.147	1147.009	1150.582	1145.627
38290.000					1155.574	1148.254	1151.951	1146.125
38300.000					1156.912	1149.301	1153.174	1146.622
38310.000					1157.409	1149.219	1153.312	1147.120
38320.000					1157.090	1148.778	1152.959	1147.618
38330.000					1156.521	1147.859	1152.220	1148.116
38340.000					1155.976	1147.439	1151.520	1148.613
38350.000					1157.048	1148.156	1152.668	1149.111
38360.000					1157.458	1148.392	1153.154	1149.609
38370.000					1156.707	1148.924	1152.691	1150.107
38380.000					1156.371	1150.397	1154.289	1150.604
38390.000					1160.618	1152.532	1156.180	1151.102
38400.000					1161.161	1153.987	1157.861	1151.600
38410.000					1160.238	1154.328	1157.264	1152.098
38420.000					1159.700	1153.919	1156.809	1152.595
38430.000					1159.309	1153.528	1156.418	1153.093
38440.000					1158.919	1153.138	1156.028	1153.572
38450.000					1158.646	1152.748	1155.638	1154.007
38460.000					1158.660	1152.677	1155.668	1154.397
38470.000					1158.938	1152.965	1155.952	1154.743
38480.000					1159.227	1153.253	1156.240	1155.045
38490.000					1159.515	1153.542	1156.529	1155.303
38500.000					1159.803	1153.830	1156.817	1155.516
38510.000					1160.392	1154.118	1157.105	1155.684
38520.000					1160.980	1154.407	1157.394	1155.909
38530.000					1160.668	1154.695	1157.682	1155.889
38540.000					1160.935	1154.871	1157.913	1155.925
38550.000					1160.932	1154.745	1157.841	1155.916
38560.000					1160.753	1154.560	1157.656	1155.882
38570.000					1160.566	1154.372	1157.469	1155.848
38580.000					1160.379	1154.185	1157.282	1155.814
38590.000					1160.192	1154.036	1157.095	1155.780
38600.000					1160.146	1154.129	1157.111	1155.746
38610.000					1160.289	1154.325	1157.307	1155.712
38620.000					1160.484	1154.520	1157.502	1155.677
38630.000					1160.679	1154.700	1157.698	1155.643
38640.000					1160.853	1154.769	1157.824	1155.609
38650.000					1160.827	1154.531	1157.695	1155.575
38660.000					1160.458	1153.947	1157.219	1155.541
38670.000					1159.798	1153.223	1156.514	1155.541
38680.000					1158.891	1151.939	1155.412	1155.600
38690.000					1157.130	1150.106	1153.615	1155.783
38700.000					1155.245	1148.203	1151.738	1155.893
38710.000					1153.290	1146.245	1149.820	1156.127
38720.000					1151.807	1145.234	1148.459	1156.419
38730.000					1152.677	1146.698	1149.690	1156.770
38740.000					1155.692	1149.583	1152.627	1157.179
38750.000					1160.335	1153.667	1156.954	1157.647
38760.000					1165.816	1158.630	1162.189	1158.173
38770.000					1171.195	1163.510	1167.728	1158.723
38780.000					1175.551	1169.115	1173.050	1159.273
38790.000					1178.142	1174.576	1177.477	1159.823
38800.000					1178.524	1179.323	1180.560	1160.373
38810.000					1177.455	1182.756	1181.947	1160.923
38820.000					1176.416	1184.805	1181.525	1161.473
38830.000					1176.422	1185.351	1180.434	1162.023
38840.000					1176.721	1184.507	1179.453	1162.573
38850.000					1176.498	1183.417	1179.609	1163.123
38860.000					1175.673	1182.481	1179.898	1163.673
38870.000					1174.844	1182.762	1179.280	1164.223
38880.000					1173.904	1182.750	1177.455	1164.773
38890.000					1173.041	1182.064	1177.575	1165.323
38900.000					1172.411	1181.239	1176.613	1165.873
38910.000					1172.034	1180.277	1175.819	1166.423
38920.000					1171.934	1179.341	1175.275	1166.973
38930.000					1172.343	1178.625	1174.987	1167.522
38940.000					1173.046	1178.173	1175.060	1168.068
38950.000					1173.793	1177.975	1175.657	1168.610
38960.000					1174.521	1178.315	1176.392	1169.149
38970.000					1175.259	1178.999	1177.130	1169.683
38980.000					1175.979	1179.737	1177.868	1170.214
38990.000					1176.678	1180.475	1178.605	1170.740
39000.000					1177.370	1181.212	1179.320	1171.263

LEGEND

PLAN:-
PROP.CENTER LINE
PROP.CARRIAGEWAY EDGE
PROP.EARTHEN SHOULDER
TOE LINE
PROP.RIGHT OF WAY
CULVERT
MAJOR/MINOR BRIDGE

PROFILE:-
PROP.ROAD LEVEL
EXISTING GROUND LEVEL
GROUND LEVEL @6M LEFT
GROUND LEVEL @6M RIGHT



HIP NO. 267 AT CH. 39099.524			HIP NO. 268 AT CH. 39158.482			HIP NO. 269 AT CH. 39215.544			HIP NO. 270 AT CH. 39356.942			HIP NO. 271 AT CH. 39538.137			HIP NO. 272 AT CH. 39618.566			HIP NO. 273 AT CH. 39860.519		
X = 654356.247	Y = 3197593.638		X = 654407.263	Y = 3197562.649		X = 654464.925	Y = 3197558.009		X = 654391.179	Y = 3197591.037		X = 654431.244	Y = 3197588.151		X = 654364.933	Y = 3197635.973		X = 654132.803	Y = 3197705.109	
R (m)	150	Ls (m)	R (m)	125	Ls (m)	R (m)	150	Ls (m)	R (m)	30	Ls (m)	R (m)	150	Ls (m)	R (m)	150	Ls (m)	R (m)	300	Ls (m)
Dc(deg)	17.9592	S(m)	Dc(deg)	26.676	S(m)	Dc(deg)	19.526	S(m)	Dc(deg)	200.0043	S(m)	Dc(deg)	31.6777	S(m)	Dc(deg)	19.2128	S(m)	Dc(deg)	6.0697	S(m)
Lc(m)	47.02	Ts(deg)	Lc(m)	58.2	Ts(deg)	Lc(m)	51.12	Ts(deg)	Lc(m)	104.72	Ts(deg)	Lc(m)	82.93	Ts(deg)	Lc(m)	50.3	Ts(deg)	Lc(m)	31.78	Ts(deg)
Ts(m)	23.703	Δ(deg)	Ts(m)	29.636	Δ(deg)	Ts(m)	25.81	Δ(deg)	Ts(m)	-170.10	Δ(deg)	Ts(m)	42.556	Δ(deg)	Ts(m)	25.388	Δ(deg)	Ts(m)	15.905	Δ(deg)
Es(m)	1.861	e(%)	Es(m)	3.465	e(%)	Es(m)	2.204	e(%)	Es(m)	-202.726	e(%)	Es(m)	5.92	e(%)	Es(m)	2.133	e(%)	Es(m)	0.421	e(%)
V(km/hr)	50	We(m)	V(km/hr)	50	We(m)	V(km/hr)	50	We(m)	V(km/hr)	30	We(m)	V(km/hr)	50	We(m)	V(km/hr)	50	We(m)	V(km/hr)	50	We(m)
CurveType	LEFT		CurveType	LEFT		CurveType	LEFT		CurveType	RIGHT		CurveType	LEFT		CurveType	RIGHT		CurveType	RIGHT	

LEGEND

PLAN:-

PROP.CENTER LINE

PROP.CARRIAGEWAY EDGE

PROP.EARTHEN SHOULDER

TOE LINE

PROP.RIGHT OF WAY

CULVERT

MAJOR/MINOR BRIDGE

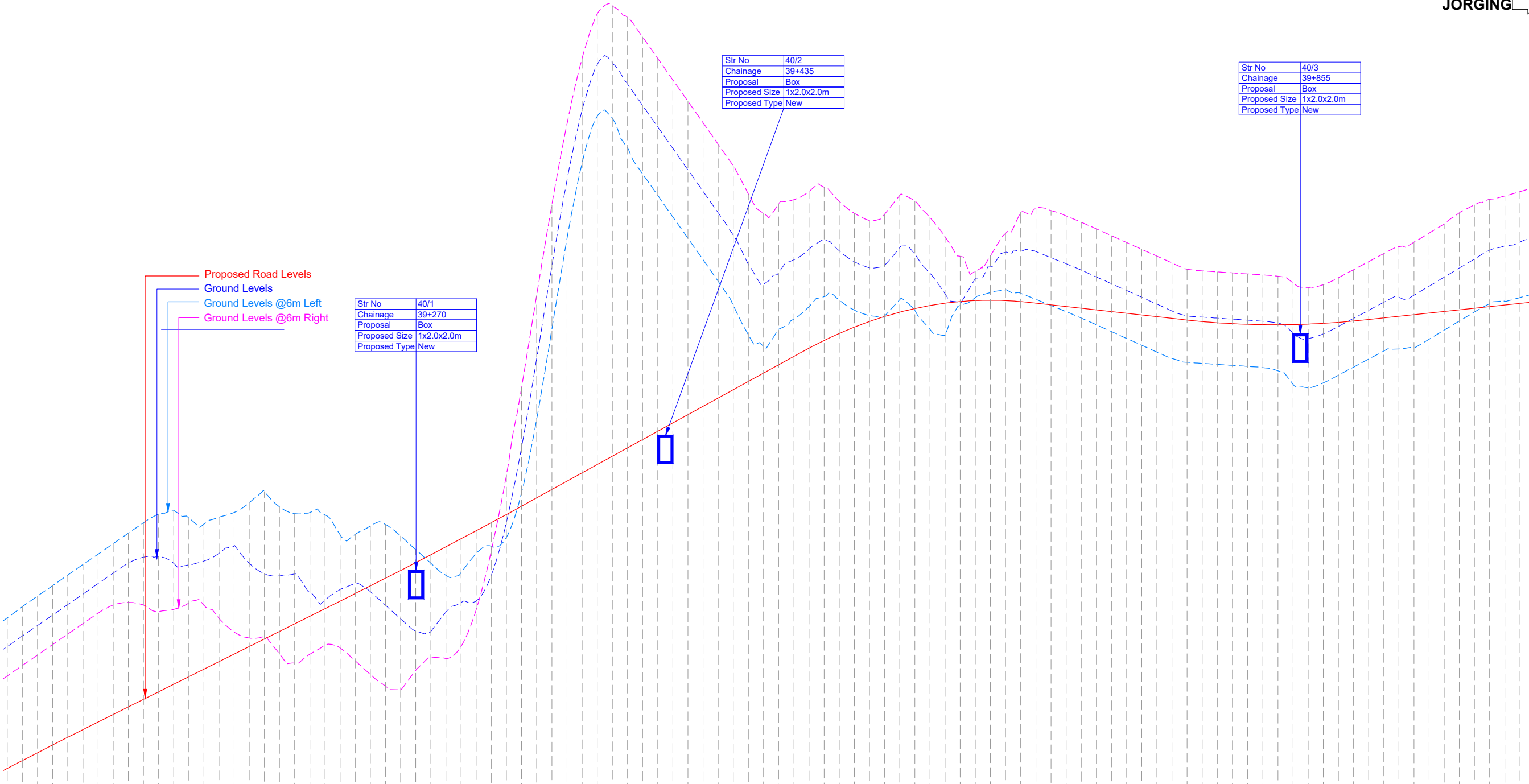
PROFILE:-

PROP.ROAD LEVEL

EXISTING GROUND LEVEL

GROUND LEVEL @6M LEFT

GROUND LEVEL @6M RIGHT



Chainage	39000.000	39010.000	39020.000	39030.000	39040.000	39050.000	39060.000	39070.000	39080.000	39090.000	39100.000	39110.000	39120.000	39130.000	39140.000	39150.000	39160.000	39170.000	39180.000	39190.000	39200.000	39210.000	39220.000	39230.000	39240.000	39250.000	39260.000	39270.000	39280.000	39290.000	39300.000	39310.000	39320.000	39330.000	39340.000	39350.000	39360.000	39370.000	39380.000	39390.000	39400.000	39410.000	39420.000	39430.000	39440.000	39450.000	39460.000	39470.000	39480.000	39490.000	39500.000	39510.000	39520.000	39530.000	39540.000	39550.000	39560.000	39570.000	39580.000	39590.000	39600.000	39610.000	39620.000	39630.000	39640.000	39650.000	39660.000	39670.000	39680.000	39690.000	39700.000	39710.000	39720.000	39730.000	39740.000	39750.000	39760.000	39770.000	39780.000	39790.000	39800.000	39810.000	39820.000	39830.000	39840.000	39850.000	39860.000	39870.000	39880.000	39890.000	39900.000	39910.000	39920.000	39930.000	39940.000	39950.000	39960.000	39970.000	39980.000	39990.000	40000.000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Horizontal Alignment	L=125.486		R: 150.000 L: 47.017		L=6.354	R: 125.000 L: 58.199		L=2.402	R: 150.000 L: 51.119		L=63.478		R: 30.000 L: 104.723		L=87.368		R: 150.000 L: 82.932		L=13.813	R: 150.000 L: 50.300		L=200.913		R: 300.000 L: 31.781		L=201.048																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
Vertical Alignment	+27.90		G = 5.000% L = 171.560				R = 24011.841 L = 120.000				G = 5.500% L = 179.305		R = 2266.980 L = 150.000		G = -1.117% L = 101.531				R = 5504.711 L = 120.000		G = 1.06% L = 208.111																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Ground Levels @6m Left	1177.370	1181.212	1179.320	1177.263	1171.782	1172.808	1173.316	1173.819	1174.320	1174.820	1175.320	1175.820	1176.320	1176.820	1177.320	1177.820	1178.320	1178.820	1179.320	1179.820	1180.320	1180.820	1181.320	1181.820	1182.320	1182.820	1183.324	1183.832	1184.344	1184.860	1185.381	1185.905	1186.434	1186.967	1187.504	1188.046	1188.591	1189.140	1189.690	1190.240	1190.790	1191.340	1191.890	1192.440	1192.990	1193.540	1194.090	1194.640	1195.190	1195.740	1196.290	1196.840	1197.390	1197.940	1198.490	1199.035	1199.581	1200.127	1200.673	1201.219	1201.765	1202.311	1202.857	1203.403	1203.949	1204.495	1205.041	1205.587	1206.133	1206.679	1207.225	1207.771	1208.317	1208.863	1209.409	1209.955	1210.501	1211.047	1211.593	1212.139	1212.685	1213.231	1213.777	1214.323	1214.869	1215.415	1215.961	1216.507	1217.053	1217.599	1218.145	1218.691	1219.237	1219.783	1220.329	1220.875	1221.421	1221.967	1222.513	1223.059	1223.605	1224.151	1224.697	1225.243	1225.789	1226.335	1226.881	1227.427	1227.973	1228.519	1229.065	1229.611	1230.157	1230.703	1231.249	1231.795	1232.341	1232.887	1233.433	1233.979	1234.525	1235.071	1235.617	1236.163	1236.709	1237.255	1237.801	1238.347	1238.893	1239.439	1240.000	1240.556	1241.112	1241.668	1242.224	1242.780	1243.336	1243.892	1244.448	1245.004	1245.560	1246.116	1246.672	1247.228	1247.784	1248.340	1248.896	1249.452	1250.008	1250.564	1251.120	1251.676	1252.232	1252.788	1253.344	1253.900	1254.456	1255.012	1255.568	1256.124	1256.680	1257.236	1257.792	1258.348	1258.904	1259.460	1260.016	1260.572	1261.128	1261.684	1262.240	1262.796	1263.352	1263.908	1264.464	1265.020	1265.576	1266.132	1266.688	1267.244	1267.800	1268.356	1268.912	1269.468	1270.024	1270.580	1271.136	1271.692	1272.248	1272.804	1273.360	1273.916	1274.472	1275.028	1275.584	1276.140	1276.696	1277.252	1277.808	1278.364	1278.920	1279.476	1280.032	1280.588	1281.144	1281.700	1282.256	1282.812	1283.368	1283.924	1284.480	1285.036	1285.592	1286.148	1286.704	1287.260	1287.816	1288.372	1288.928	1289.484	1290.040	1290.596	1291.152	1291.708	1292.264	1292.820	1293.376	1293.932	1294.488	1295.044	1295.600	1296.156	1296.712	1297.268	1297.824	1298.380	1298.936	1299.492	1300.048	1300.604	1301.160	1301.716	1302.272	1302.828	1303.384	1303.940	1304.496	1305.052	1305.608	1306.164	1306.720	1307.276	1307.832	1308.388	1308.944	1309.500	1310.056	1310.612	1311.168	1311.724	1312.280	1312.836	1313.392	1313.948	1314.504	1315.060	1315.616	1316.172	1316.728	1317.284	1317.840	1318.396	1318.952	1319.508	1320.064	1320.620	1321.176	1321.732	1322.288	1322.844	1323.400	1323.956	1324.512	1325.068	1325.624	1326.180	1326.736	1327.292	1327.848	1328.404	1328.960	1329.516	1330.072	1330.628	1331.184	1331.740	1332.296	1332.852	1333.408	1333.964	1334.520	1335.076	1335.632	1336.188	1336.744	1337.300	1337.856	1338.412	1338.968	1339.524	1340.080	1340.636	1341.192	1341.748	1342.304	1342.860	1343.416	1343.972	1344.528	1345.084	1345.640	1346.196	1346.752	1347.308	1347.864	1348.420	1348.976	1349.532	1350.088	1350.644	1351.200	1351.756	1352.312	1352.868	1353.424	1353.980	1354.536	1355.092	1355.648	1356.204	1356.760	1357.316	1357.872	1358.428	1358.984	1359.540	1360.096	1360.652	1361.208	1361.764	1362.320	1362.876	1363.432	1363.988	1364.544	1365.100	1365.656	1366.212	1366.768	1367.324	1367.880	1368.436	1368.992	1369.548	1370.104	1370.660	1371.216	1371.772	1372.328	1372.884	1373.440	1373.996	1374.552	1375.108	1375.664	1376.220	1376.776	1377.332	1377.888	1378.444	1378.996	1379.552	1380.108	1380.664	1381.220	1381.776	1382.332	1382.888	1383.444	1383.996	1384.552	1385.108	1385.664	1386.220	1386.776	1387.332	1387.888	1388.444	1388.996	1389.552	1390.108	1390.664	1391.220	1391.776	1392.332	1392.888	1393.444	1393.996	1394.552	1395.108	1395.664	1396.220	1396.776	1397.332	1397.888	1398.444	1398.996	1399.552	1400.108	1400.664	1401.220	1401.776	1402.332	1402.888	1403.444	1403.996	1404.552	1405.108	1405.664	1406.220	1406.776	1407.332	1407.888	1408.444	1408.996	1409.552	1410.108	1410.664	1411.220	1411.776	1412.332	1412.888	1413.444	1413.996	1414.552	1415.108	1415.664	1416.220	1416.776	1417.332	1417.888	1418.444	1418.996	1419.552	1420.108	1420.664	1421.220	1421.776	1422.332	1422.888	1423.444	1423.996	1424.552	1425.108	1425.664	1426.220	1426.776	1427.332	1427.888	1428.444	1428.996	1429.552	1430.108	1430.664	1431.220	1431.776	1432.332	1432.888	1433.444	1433.996	1434.552	1435.108	1435.664	1436.220	1436.776	1437.332	1437.888	1438.444	1438.996	1439.552	1440.108	1440.664	1441.220	1441.776	1442.332	1442.888	1443.444	1443.996	1444.552	1445.108	1445.664	1446.220	1446.776	1447.332	1447.888	1448.444	1448.996	1449.552	1450.108	1450.664	1451.220	1451.776	1452.332	1452.888	1453.444	1453.996	1454.552	1455.108	1455.664	1456.220	1456.776	1457.332	1457.888	1458.444	1458.996	1459.552	1460.108	1460.664	1461.220	1461.776	1462.332	1462.888	1463.444	1463.996	1464.552	1465.108	1465.664	1466.220	1466.776	1467.332	1467.888	1468.444	1468.996	1469.552	1470.108	1470.664	1471.220	1471.776	1472.332	1472.888	1473.444	1473.996	1474.552	1475.108	1475.664	1476.220	1476.776	1477.332	1477.888	1478.444	1478.996	1479.552	1480.108	1480.664	1481.220	1481.776	1482.332	1482.888	1483.444	1483.996	1484.552	1485.108	1485.664	1486.220	1486.776	1487.332	1487.888	1488.444	1488.996	1489.552	1490.108	1490.664	1491.220	1491.776	1492.332	1492.888	1493.444	1493.996	1494.552	1495.108	1495.664	1496.220	1496.776	1497.332	1497.888	1498.444	1498.996	1499.552	1500.108	1500.664	1501.220	1501.776	1502.332	1502.888	1503.444	1503.996	1504.552	1505.108	1505.664	1506.220	1506.776	1507.332	1507.888	1508.444	1508.996	1509.552	1510.108	1510.664	1511.220	1511.776	1512.332	1512.888	1513.444	1513.996	1514.552	1515.108	1515.664	1516.220	1516.776	1517.332	1517.888	1518.444	1518.996	1519.552	1520.108	1520.664	1521.220	1521.776	1522.332	1522.888	1523.444	1523.996	1524.552	1525.108	1525.664	1526.220	1526.776	1527.332	1527.888	1528.444	1528.996	1529.552	1530.108	1530.664	1531.220	1531.776	1532.332	1532.888	1533.444	1533.996	1534.552	1535.108	1535.664	1536.220	1536.776	1537.332	1537.888	1538.444	1538.996	1539.552	1540.108	1540.664	1541.220	1541.776	1542.332	1542.888	1543.444	1543.996	1544.552	1545.108	1545.664	1546.220	1546.776	1547.332	1547.888	1548.444	1548.996	1549.552	1550.108	1550.664	1551.220	1551.776	1552.332	1552.888	1553.444	1553.99