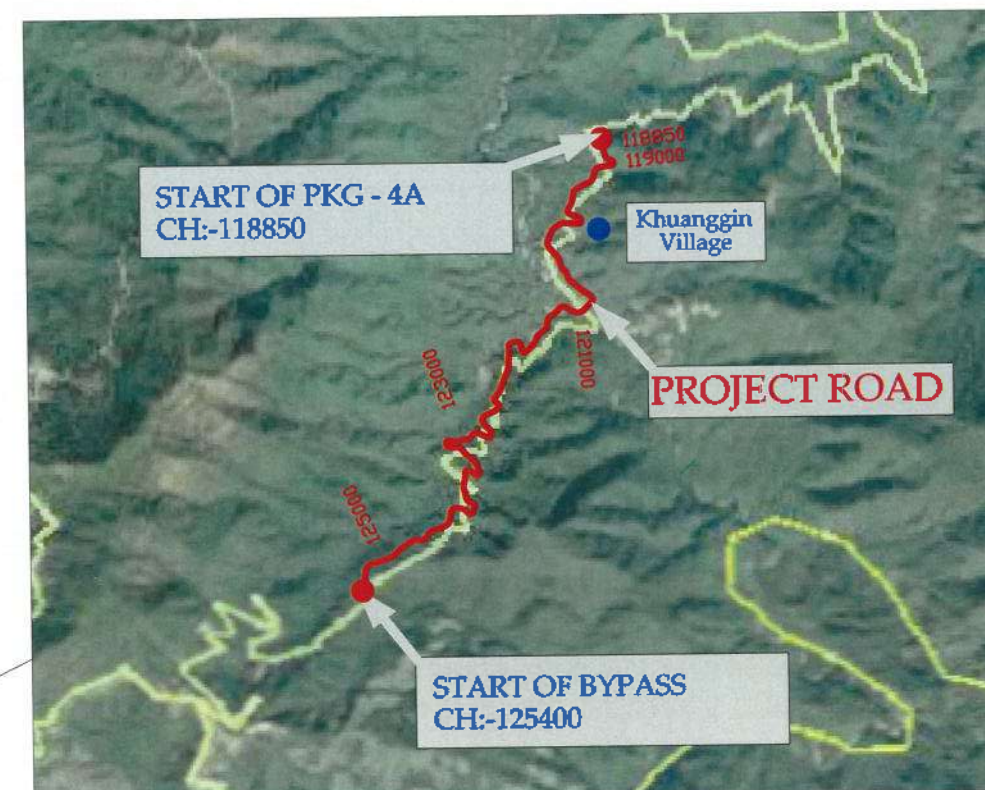
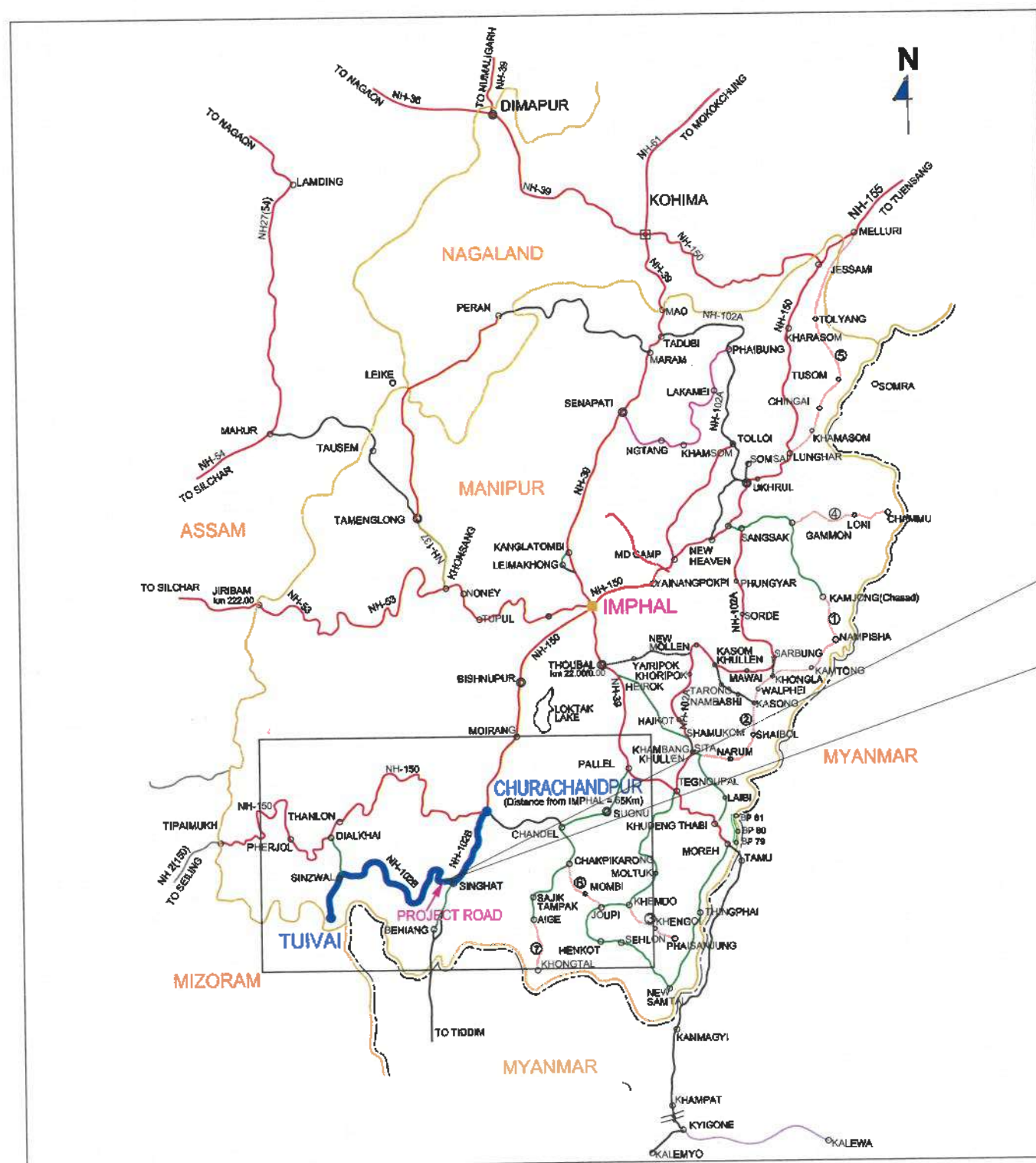


राष्ट्रीय राजमार्ग एवं अवसंरचना विकास निगम लिमिटेड
National Highways & Infrastructure Development Corporation Limited

Widening to 2 (Two) Lane with Hard shoulder of Churachandpur to Tuivai section of NH 102B from Km 118.850 to Km 130.000 (Package-4A) in the State of Manipur on Engineering, Procurement & Construction (EPC) mode.



PLAN & LONGITUDINAL PROFILE

PACKAGE - 4A

(Km. 118+850 to Km. 125+358)

OCTOBER 2020

APPROVED



EPC CONTRACTOR:



JC - 25, Sector - III, Salt Lake,
Kolkata - 700098.

DESIGN CONSULTANT:



**SPS Technocrats
Pvt. Ltd.**

510 & 511, JMD Megapolis, Sector 48,
Gurgaon, Haryana - 122018.

CONTENT SHEET

SR. NO.	DRAWING NAME	DRAWING NO	NO OF SHEETS
01	LIST OF DRAWINGS	GPT/CCT/4A/HW/GEN/LOD/01	01
02	LEGENDS & ABBREVIATIONS	GPT/CCT/4A/HW/GEN/LEGEND/01	01
03	HORIZONTAL ALIGNMENT REPORT	GPT/CCT/4A/HW/GEN/HOR/01 TO 04	04
04	VERTICAL ALIGNMENT REPORT	GPT/CCT/4A/HW/GEN/VER/01	01
05	TYPICAL CROSS SECTION	GPT/CCT/4A/HW/GEN/TCS/01 TO 09	09
06	PLAN & LONGITUDINAL PROFILE	GPT/CCT/4A/HW/PNP/01 TO 13a	25

APPROVED



[Signature]
DESIGN DIRECTOR

Shambhavi Techno Solutions Pvt. Ltd.
[Signature]
Managing Director



Rev.	Date	Description	CLIENT:	EPC CONTRACTOR:	AUTHORITY ENGINEER:	SAFETY CONSULTANT:	PROJECT CONSULTANT:	DESIGN CONSULTANT:	PROJECT:	DRAWN:	AMIT:	TITLE:
				 JC - 25, Sector - III, Salt Lake, Kolkata - 700098.	 IN ASSOCIATION WITH MSPARK FUTURISTICS AND ASSOCIATES D-5, 2ND FLOOR, R.K. TOWER, SECTOR-4, VAISHALI, GHANABAD-201003.	 PP-67, Tankapani Road, BBSR-18, Odisha	 E-82, Rajesh Kumar Path, S.K. Puri, Boring Road, Patna-800001	 # 510 & 511, MID Magapala, Sector 46, Gurgaon, Haryana - 122018.	Widening to 2 (Two) Lane with Hard shoulder of Churechandpur to Tulua section of NH 102B from Km 118.860 to Km 130.000 (Package-4A) in the State of Manipur on Engineering, Procurement & Construction (EPC) mode.	DRAWN: MURARI DESIGNED: MURARI CHECKED: VIPUL	DATE: OCT - 2020	LIST OF DRAWINGS SCALE: AS SHOWN ORG. NO: GPT/CCT/4A/HW/GEN/LOD/01

REV: R0

LEGENDS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
LEGEND FOR PLAN			
	BUILDING (P, SP, K, UC)		COVERED DRAIN
	CULVERT, BRIDGE		11KV ELECTRIC LINE
	GATE		33KV ELECTRIC LINE
	TELEPHONE POLE		TOILET
	ELECTRIC POLE		EXISTING CARRIAGEWAY
	TEMPORARY BENCH MARK		REFERENCE PILLAR
	SIDE ROAD		GPS PILLAR
	NALA & RIVER		SLAB CULVERT
	TRANSFORMER		PROPOSED CARRIAGEWAY EDGE
	KILOMETER POST		PROPOSED HS EDGE
	TREE		PROPOSED CENTER LINE
	VILLAGE NAME		PROPOSED SHOULDER EDGE
	BOUNDARY WALL		PROPOSED RIGHT - OF - WAY
	SURVEY STATION		CONTOUR LINE
	FENCING		PROPOSED TOE LINE
	AGRICULTURAL FIELD		CUTTING TOE LINE
	LAMP POST		FILLING TOE LINE
	RETAINING WALL		EARTHEN SHOULDER
	GARDEN		HOR. TANGENT POINT
	WALL		VER. TANGENT POINT
	TEMPLE		PROP. BOX CULVERT

ABBREVIATIONS

SYMBOL	DESCRIPTION
$\triangle$	TOTAL DEVIATION ANGLE OF CURVE
R	RADIUS OF CIRCULAR CURVE
Ts	TANGENT LENGTH
Es	APEX DISTANCE
Lc	LENGTH OF CIRCULAR CURVE
e	SUPER ELEVATION
Ls	LENGTH OF TRANSITION CURVE
$\triangle_s$	DEVIATION ANGLE OF TRANSITION CURVE
$\triangle_c$	DEVIATION OR CENTRAL ANGLE OF CIRCULAR CURVE
L	TOTAL LENGTH OF CURVE
S	SHIFT
PC	POINT OF CURVATURE
PT	POINT OF TANGENCY
TS	POINT OF CHANGE FROM TANGENT TO SPIRAL
SC	POINT OF CHANGE FROM SPIRAL TO CIRCULAR CURVE
CS	POINT OF CHANGE FROM CIRCULAR CURVE TO SPIRAL
ST	POINT OF CHANGE FROM SPIRAL TO TANGENT
IL	INVERT LEVEL OF CULVERT
PVI	POINT OF VERTICAL INTERSECTION
Lvs	LENGTH OF VALLEY CURVE
Lsc	LENGTH OF SUMMIT CURVE
HI	HORIZONTAL INTERSECTION POINT

APPROVED



Shambhavi Techno Solutions Pvt. Ltd


Managing Director

Wp/Stone
DESIGN DIRECTOR

Rev.	Date	Description	CLIENT:  BUILDING INFRASTRUCTURE - BUILDING THE NATION	EPC CONTRACTOR:  JC - 25, Sector - III, Salt Lake, Kolkata - 700095.	AUTHORITY ENGINEER:  M/S CHAITANYA PROJECTS CONSULTANCY PVT.LTD. IN ASSOCIATION WITH MSPARK FUTURISTICS AND ASSOCIATES C-62ND FLOOR,RJKTOWER, SECTOR-4,VASIHALLI,CHAZHIMAD-201010.	SAFETY CONSULTANT:  # 510 & 511, JMD Maggoopis, Sector 40, Gurgaon, Haryana - 122019	PROOF CONSULTANT:  SHAMBAHU TECHNO SOLUTIONS PVT.LTD. E-82, Rajesh Kumar Path, S.K.Puri, Boring Road, Palma-900001	DESIGN CONSULTANT:  SPS Technocrats Pvt. Ltd. # 510 & 511, JMD Maggoopis, Sector 40, Gurgaon, Haryana - 122019	PROJECT: Widening to 2 (Two) Lane with Hand shoulder of Churnashindipura to Tulnai section of NH 102B from Km 116.850 to Km 130.000 (Package-4A) in the State of Manipur on Engineering, Procurement & Construction (EPC) mode.	DRAWN ARVI DESIGNED MURARI CHECKED VIPIUL DATE: OCT - 2020	TITLE: LEGENDS & ABBREVIATIONS SCALE: AS SHOWN DRG.NO: GPT/CCT/4A/NW/GEN/LEGEND/M1	REV: R0
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REFERENCE PILLAR DETAILS

TBM PILLAR LIST				
TBM No.	Easting (m)	Northing (m)	R.L. (m)	Remarks
TBM-R49	553489.881	2667353.580	614.798	On the top of parapet
TBM-R50	553497.066	2667351.360	614.804	On the top of parapet
TBM-D123	553382.656	2666882.222	619.706	On the top of parapet
TBM-D124	553384.605	2666886.767	619.706	On the top of parapet
TBM-D100	553260.892	2666543.708	651.198	On the top of slab
TBM-D99	553284.067	2666537.176	651.565	On the top of parapet
TBM-D101	552697.148	2666275.722	738.908	On the top of parapet
TBM-D102	552700.9D1	2666268.638	738.394	On the top of parapet
TBM-D103	552118.103	2665907.425	805.968	On the top of parapet
TBM-D104	552124.576	2665908.389	805.642	On the top of parapet
TBM-D105	552317.041	2665589.754	825.112	On the top of parapet
TBM-D106	552322.908	2665594.291	825.160	On the top of parapet
TBM-D107	551985.183	2665368.718	871.108	On the top of parapet
TBM-D108	551980.517	2665374.141	871.114	On the top of parapet
TBM-R54	551808.535	2665176.264	883.983	On the top of parapet
TBM-R53	551908.765	2665175.064	884.005	On the top of parapet
TBM-R51	551407.823	2664958.982	919.724	On the top of parapet
TBM-R52	551407.917	2664957.726	919.727	On the top of parapet
TBM-R56	551295.023	2664997.281	944.644	On the top of parapet
TBM-R55	551287.344	2664992.788	944.680	On the top of parapet
TBM-R58	551067.763	2665272.145	970.134	On the top of parapet
TBM-R57	551068.733	2665264.958	970.068	On the top of parapet
TBM-R59	550395.551	2666448.721	1073.100	On the top of parapet
TBM-R60	550388.843	2666446.319	1073.111	On the top of parapet
TBM-D109	549706.504	2665812.980	1051.981	On the top of parapet
TBM-D110	549705.464	2665821.280	1051.991	On the top of parapet
TBM-R61	549125.150	2665221.326	981.204	On the top of parapet
TBM-R62	549130.271	2665216.419	981.197	On the top of parapet
TBM-D111	548949.402	2663995.023	970.112	On the top of parapet
TBM-D112	548957.167	2663997.843	969.864	On the top of parapet
TBM-D113	548879.507	2663761.147	967.289	On the plinth level of waiting shed
TBM-D114	548878.103	2663761.134	967.288	On the plinth level of waiting shed
TBM-D115	548585.658	2665458.594	841.613	On the top of guard wall
TBM-D116	548583.980	2665456.838	841.632	On the top of guard wall
TBM-R63	548741.563	2666475.614	790.140	On the top of guard wall
TBM-R64	548732.948	2666475.110	790.343	On the top of guard wall
TBM-2	548443.149	2666938.461	749.194	On the top of foundation stone
TBM-1	548488.904	2666940.242	750.623	On the top of foundation stone
TBM-R66	548372.957	2667153.844	755.708	On the top of parapet
TBM-R65	548368.636	2667147.296	756.218	On the top of parapet
TBM-D122	548498.246	2667818.491	789.568	On the top of guard wall
TBM-D123	548498.812	2667814.812	790.254	On the top of guard wall
TBM-D119	548347.389	2668174.371	812.956	On the top of parapet
TBM-D120	548341.852	2668167.757	813.061	On the top of parapet
TBM-D117	548416.088	2668290.458	818.893	On the top of slab
TBM-D118	548409.232	2668293.521	819.376	On the top of parapet
TBM-J/19	548510.398	2668382.028	820.548	
TBM-J/20	548406.253	2668508.147	827.420	On the top of parapet
TBM-J/21	548331.986	2668534.138	826.286	
TBM-J/22	548136.306	2668468.807	821.435	On the top of parapet
TBM-J/23	548132.908	2668495.188	821.355	On the top of parapet
TBM-J/24	547924.205	2668606.172	813.701	
TBM-J/25	547799.787	2668598.660	809.890	On the top of parapet
TBM-J/26	547693.895	2668608.822	805.765	On the top of parapet
TBM-S/10	548044.297	2668819.157	788.997	On the top of parapet
TBM-S/11	548042.996	2668827.212	788.923	On the top of parapet
TBM-S/12	548305.752	2668807.354	770.940	On the top of guard wall
TBM-S/13	548300.603	2668805.831	771.016	On the top of guard wall
TBM-S/15	548454.583	2668943.951	751.582	On the top of parapet
TBM-S/14	548460.226	2668948.431	751.453	On the top of parapet

APPROVED



Shambhavi Techno Solutions Pvt. Ltd.
Managing Director



Rev.	Date	Description	CLIENT:	EPC CONTRACTOR:	AUTHORITY ENGINEER:	SAFETY CONSULTANT:	PROOF CONSULTANT:	DESIGN CONSULTANT:	PROJECT:	DRAWN	AMTY	TITLE:	SCALE:	REV:
				 JC - 25, Sector - III, Salt Lake, Kolkata - 700098.	 M/S CHAITANYA PROJECTS CONSULTANCY PVT. LTD. IN ASSOCIATION WITH MSPARK FUTURISTICS AND ASSOCIATES C-52ND FLOOR, R K TOWER, SECTOR-4 VASHPALI, GHAZIABAD-201010.	 PP-87, Tankapuri Road, BBSR-18, Cuttack	 SHAMBHAVI TECHNO SOLUTIONS PVT.LTD. B-82, Rajesh Kumar Path, S.K. Puri, Boring Road, Patna-800001	 SPS Technocrats Pvt. Ltd. # 510 & 511, JMD Margapala, Sector-48, Gurgaon, Haryana - 122019.	Widening to 2 (Two) Lane with Hard shoulder of Churachandpur to Tuvali section of NH 102B from Km 118.850 to Km 130.000 (Package-4A) in the State of Manipur on Engineering, Procurement & Construction (EPC) mode.	DRAWN DESIGNED CHECKED DATE: OCT - 2020	MURARI VIPLUL OCT - 2020	REFERENCE PILLAR DETAILS AS SHOWN DRG. NO: BVE/CCT/25/MW/GENREF.PILLAR/01	R0	

ALIGNMENT REPORT

HORIZONTAL ALIGNMENT REPORT

HIP / Curve No.	HIP		Deflection Angle			Element	Start			End			Length (m)	Bearing (dd mm ss)	Hand of Arc	Design Speed (KMH)	Radius (m)	Superelevation (%)
	Easting (m)	Northing (m)	Deg	Min	Sec		Chainage (m)	Easting (m)	Northing (m)	Chainage (m)	Easting (m)	Northing (m)						
1	533595.388	2668990.941	7	27	24.2	Start	118850	533581.757	2669035.352	118878.526	533590.126	2669008.082	28.526					
						Transition	118878.526	533590.126	2669008.082	118893.526	533594.302	2668993.676	15.000		Right	40.00	160	4.44%
						Arc	118893.526	533594.302	2668993.676	118899.349	533595.644	2668988.010	5.823					
						Transition	118899.349	533595.644	2668988.010	118914.349	533598.377	2668973.263	15.000	170 23 46.9				
						Straight	118914.349	533598.377	2668973.263	118917.638	533598.926	2668970.020	3.289					
2	533602.002	2668951.84	354	59	24.6	Transition	118917.638	533598.926	2668970.020	118932.638	533601.576	2668955.256	15.000		Left	40.00	-250	2.84%
						Arc	118932.638	533601.576	2668955.256	118939.497	533603.015	2668948.550	6.859					
						Transition	118939.497	533603.015	2668948.550	118954.497	533606.654	2668933.998	15.000	165 23 11.4				
						Straight	118954.497	533606.654	2668933.998	118984.981	533614.345	2668904.501	30.484					
						Transition	118984.981	533614.345	2668904.501	119009.981	533623.036	2668881.170	25.000		Left	30.00	-41	7.00%
3	533622.422	2668873.522	309	41	6	Arc	119009.981	533623.036	2668881.170	119020.986	533630.055	2668872.738	11.005					
						Transition	119020.986	533630.055	2668872.738	119045.986	533651.420	2668859.956	25.000	115 4 17.4				
						Straight	119045.986	533651.420	2668859.956	119062.339	533682.513	2668841.795	20.000					
						Transition	119062.339	533682.513	2668841.795	119113.905	533678.104	2668813.749	31.666		Right	20.00	20	7.00%
						Arc	119113.905	533678.104	2668813.749	119133.905	533659.163	2668808.055	20.000					
4	533740.412	2668818.323	147	43	32.7	Transition	119133.905	533659.163	2668808.055	119214.510	533579.194	2668797.949	80.606	262 47 50.1				
						Straight	119214.510	533579.194	2668797.949	119244.510	533550.601	2668789.821	30.000					
						Transition	119244.510	533550.601	2668789.821	119252.054	533544.818	2668785.003	7.544		Left	30.00	-33	7.00%
						Arc	119252.054	533544.818	2668785.003	119282.054	533531.657	2668712.015	30.000	197 36 48.5				
						Transition	119282.054	533531.657	2668712.015	119330.668	533516.947	2668689.171	25.000					
5	533542.767	2668793.345	294	48	58.4	Straight	119330.668	533516.947	2668689.171	119355.668	533507.046	2668681.864	9.851		Right	30.00	41	7.00%
						Transition	119355.668	533507.046	2668689.171	119365.519	533500.475	2668669.603	25.000					
						Arc	119365.519	533500.475	2668669.603	119390.519	533478.806	2668654.935	36.517	246 18 59.1				
						Transition	119390.519	533478.806	2668654.935	119427.036	533445.364	2668646.052	20.531		Left	40	-300	2.50%
						Straight	119427.036	533445.364	2668646.052	119447.567	533426.860	2668625.890	43.510	242 23 43.4				
6	533435.960	2668650.810	356	4	44.3	Transition	119447.567	533426.860	2668625.890	119491.077	533388.302	2668612.177	25.000					
						Arc	119491.077	533388.302	2668612.177	119516.077	533367.522	2668600.375	14.453		Left	30.00	-41	7.00%
						Transition	119516.077	533367.522	2668600.375	119530.530	533359.311	2668576.124	25.000					
						Straight	119530.530	533359.311	2668576.124	119555.530	533350.443	2668550.750	25.578	187 15 44.4				
						Transition	119555.530	533350.443	2668550.750	119581.108	533348.299	2668535.908	15.000		Right	40.00	150	4.74%
7	533345.345	2668510.747	24	40	45	Arc	119581.108	533348.299	2668535.908	119596.108	533331.732	2668489.384	49.610					
						Transition	119596.108	533331.732	2668489.384	119645.718	533324.010	2668478.526	15.000					
						Straight	119645.718	533324.010	2668478.526	119665.820	533321.311	2668472.197	5.102	211 56 29.3				
						Transition	119665.820	533321.311	2668472.197	119695.820	533309.999	2668444.770	30.000		Left	30.00	-30	7.00%
						Arc	119695.820	533309.999	2668444.770	119719.269	533317.478	2668408.512	30.000					
8	533293.002	2668426.79	257	55	6.7	Transition	119719.269	533317.478	2668408.512	119749.269	533343.328	2668392.850	48.396	109 51 36.1				
						Straight	119749.269	533343.328	2668392.850	119795.665	533388.965	2668380.845	25.000		Right	25.00	26	7.00%
						Transition	119795.665	533388.965	2668380.845	119820.665	533408.602	2668339.284	49.865					
						Arc	119820.665	533408.602	2668339.284	119870.530	533399.498	2668344.424	25.000	274 50 15.3				
						Transition	119870.530	533399.498	2668344.424	119895.530	533291.795	2668345.019	20.000		Left	30.00	-61	6.56%
9	533261.783	2668346.964	323	37	46.5	Straight	119895.530	533374.825	2668345.019	119978.856	533271.828	2668340.714	18.722					
						Transition	119978.856	533271.828	2668340.714	120017.578	533253.683	2668331.212	20.000					
						Arc	120017.578	533253.683	2668331.212	120037.578	533236.111	2668315.407	30.220	238 28 1.8				
						Transition	120037.578	533236.111	2668315.407	120067.798	533197.863	2668307.115	15.000		Left	30.00	-70	5.71%
						Straight	120067.798	533236.111	2668315.407	120082.798	533180.400	2668287.358	26.527					
10	533185.693	2668300.276	326	0	34.3	Transition	120082.798	533180.400	2668287.358	120109.325	533173.705	2668273.943	15.000					
						Arc	120109.325	533173.705	2668273.943	120124.325	533149.099	2668221.210	57.941	204 28 36.1				
						Transition	120124.325	533149.099	2668221.210	120172.229	533143.979	2668145.343	64.963		Left	30.00	-70	5.71%
						Arc	120172.229	533143.979	2668145.343	120229.229	533152.968	2668133.680	15.000					
						Transition	120229.229	533152.968	2668133.680	120277.229	533124.321	2668073.884	79.199	139 1 33.3				
11	533232.655	2668052.774	28	39	19.4	Straight	120277.229	533124.321	2668073.884	120356.428	533223.794	2668062.262	15.000		Right	30.00	80	5.00%
						Transition	120356.428	533223.794	2668062.262	120371.428	533234.965	2668039.999	25.010					
						Arc	120371.428	533234.965	2668039.999	120396.438	533238.620	2668025.457	15.000	167 40 52.8				
						Transition	120396.438	533238.620	2668025.457	120411.438	533242.427	2668008.027	17.841		Left	30.00	-75	5.33%
						Straight	120411.438	533242.427	2668008.027	120429.279	533246.112	2667993.494	31.242					
12	533249.13	2667977.331	324	40	24.4	Transition	120429.279	533246.112	2667993.494	120444.279	533261.612	2667966.628	15.000					
						Arc	120444.279	533261.612	2667966.628	120475.521	533272.349	2667955.330	1.236	132 21 17.1				
						Transition	120475.521	533272.349	2667955.330	120491.757	533287.267							

HORIZONTAL ALIGNMENT REPORT

HIP / Curve No.	HIP		Deflection Angle			Element	Start			End			Length (m)	Bearing (dd mm ss)	Hand of Arc	Design Speed (KMH)	Radius (m)	Superelevation (%)
	Easting (m)	Northing (m)	Deg	Min	Sec		Chainage (m)	Easting (m)	Northing (m)	Chainage (m)	Easting (m)	Northing (m)						
21	533393.656	2667593.305	73	49	48.8	Transition	120936.006	533438.406	2667638.966	120951.008	533427.561	2667628.614	15.000		Right	30	75	5.33%
						Arc	120951.006	533427.561	2667628.614	121032.650	533350.775	2667616.916	81.644					
						Transition	121032.65	533350.775	2667616.916	121047.650	533337.339	2667623.569	15.000					
						Straight	121047.65	533337.339	2667623.569	121105.374	533286.491	2667650.893	57.724	298 15 9.8				
22	533246.803	2667672.221	277	4	1.1	Transition	121105.374	533286.491	2667650.893	121135.374	533258.486	2667660.858	30.000		Left	30	-33	7.00%
						Arc	121135.374	533258.486	2667660.858	121153.140	533241.398	2667656.846	17.766					
						Transition	121153.14	533241.398	2667656.846	121183.140	533220.755	2667635.458	30.000					
						Straight	121183.14	533220.755	2667635.458	121198.341	533211.539	2667623.379	0.201	215 19 11				
23	533209.156	2667619.089	19	59	44	Transition	121198.341	533211.539	2667623.379	121207.770	533204.840	2667616.753	9.429		Right	30	70	5.71%
						Arc	121207.77	533204.84	2667616.753	121222.770	533192.825	2667607.787	15.000					
						Transition	121222.77	533192.825	2667607.787	121258.644	533163.326	2667597.373	35.874	235 18 55				
						Straight	121258.644	533163.326	2667597.373	121278.644	533147.545	2667575.125	20.000					
24	533130.026	2667564.328	307	4	0.5	Transition	121278.644	533147.545	2667575.125	121314.999	533130.262	2667543.751	36.355		Left	30	-61	6.56%
						Arc	121314.999	533130.262	2667543.751	121334.999	533128.343	2667523.867	20.000					
						Transition	121334.999	533128.343	2667523.867	121339.133	533128.171	2667519.737	4.134	182 22 55.5				
						Straight	121339.133	533128.171	2667519.737	121364.133	533124.620	2667495.094	25.000					
25	533126.831	2667487.524	50	49	24.2	Transition	121364.133	533124.62	2667495.094	121375.502	533119.336	2667485.07	11.389		Right	30	41	7.00%
						Arc	121375.502	533119.336	2667485.07	121400.502	533101.013	2667468.214	25.000					
						Transition	121400.502	533101.013	2667468.214	121437.584	533071.318	2667446.003	37.082	233 12 19.7				
						Straight	121437.584	533071.318	2667446.003	121452.584	533059.640	2667436.600	15.000					
26	533047.336	2667428.066	324	29	58.2	Transition	121452.584	533059.64	2667436.6	121480.956	533043.295	2667413.847	28.372		Left	30	-70	5.71%
						Arc	121480.956	533043.295	2667413.847	121495.956	533038.228	2667399.537	15.000					
						Transition	121495.956	533038.228	2667399.537	121505.467	533035.336	2667380.477	9.511	197 42 17.9				
						Straight	121505.467	533035.336	2667399.537	121520.467	533030.270	2667376.368	15.000					
27	533027.702	2667366.563	28	11	0	Transition	121520.467	533030.27	2667376.368	121539.900	533020.063	2667359.903	19.433		Right	30	70	5.71%
						Arc	121539.9	533020.063	2667359.903	121554.900	533009.679	2667349.090	15.000					
						Transition	121554.9	533009.679	2667349.090	121623.603	532960.351	2667301.268	68.703	225 53 18				
						Straight	121623.603	532960.351	2667301.268	121643.603	532944.067	2667290.042	20.000					
28	532925.008	2667267.005	124	10	8.7	Transition	121643.603	532944.067	2667290.042	121666.946	532923.102	2667286.843	23.343		Right	20	20	7.00%
						Arc	121666.946	532923.102	2667286.843	121686.946	532916.509	2667273.15	20.000					
						Transition	121686.946	532916.509	2667273.15	121708.750	532902.855	2667336.967	21.804	350 3 26.6				
						Straight	121708.75	532902.855	2667336.967	121738.750	532891.666	2667384.938	30.000					
29	532905.269	2667379.610	275	24	57	Transition	121738.75	532902.855	2667384.938	121753.038	532882.111	2667376.193	14.288		Left	30	-30	7.00%
						Arc	121753.038	532882.111	2667376.193	121783.038	532862.111	2667376.193	30.000					
						Transition	121783.038	532862.111	2667376.193	121814.424	532831.663	2667369.654	1.386	265 28 23.7				
						Straight	121814.424	532831.663	2667369.654	121842.898	532814.229	2667348.080	30.000					
30	532806.913	2667371.823	266	56	6.7	Transition	121842.898	532814.229	2667348.080	121872.898	532814.045	2667318.311	28.474		Left	30.00	-36	7.00%
						Arc	121872.898	532814.045	2667318.311	121888.086	532815.682	2667303.216	15.000					
						Transition	121888.086	532815.682	2667303.216	121894.358	532815.853	2667296.948	6.272	172 24 30.4				
						Straight	121894.358	532815.853	2667296.948	121909.358	532815.053	2667281.973	15.000					
31	532816.472	2667300.101	12	4	1.8	Transition	121909.358	532815.053	2667281.973	121959.538	532811.137	2667231.945	50.180	184 28 32.2	Right	30	101	3.96%
						Arc	121959.538	532811.137	2667231.945	121987.472	532809.736	2667204.050	27.934					
						Transition	121987.472	532809.736	2667204.050	122001.136	532809.432	2667190.390	13.664	181 16 28.5				
						Straight	122001.136	532809.432	2667190.390	122021.136	532804.986	2667154.216	20.000					
32	532810.047	2667218.017	356	47	56.3	Transition	122021.136	532804.986	2667154.216	122037.708	532798.106	2667135.446	16.572		Left	40	101	7.00%
						Arc	122037.708	532798.106	2667135.446	122057.708	532798.106	2667135.446	20.000					
						Transition	122057.708	532798.106	2667135.446	122140.527	532767.052	2667058.669	82.619	202 1 18.4				
						Straight	122140.527	532767.052	2667058.669	122158.683	532760.552	2667041.718	18.156	199 58 28.6				
33	532763.648	2667050.253	357	55	10.2	Transition	122158.683	532760.552	2667041.718	122208.902	532743.424	2666994.510	50.219		Right	50.00	-500	2.50%
						Arc	122208.902	532743.424	2666994.510	122228.902	532735.989	2666975.952	20.000					
						Transition	122228.902	532735.989	2666975.952	122242.472	532729.320	2666964.146	13.570					
						Straight	122242.472	532729.320	2666964.146	122262.472	532717.263	2666948.200</						

HORIZONTAL ALIGNMENT REPORT

H/P / Curve No.	H/P		Deflection Angle			Element	Start			End			Length (m)	Bearing (dd mm ss)	Hand of Arc	Design Speed (KMH)	Radius (m)	Superelevation (%)
	Easting (m)	Northing (m)	Deg	Min	Sec		Chainage (m)	Easting (m)	Northing (m)	Chainage (m)	Easting (m)	Northing (m)						
42	532861.559	2666581.615	120	0	23.9	Straight	122714.714	532659.251	2666627.787	122714.951	532659.263	2666627.551	0.237	177 8 18.8				
						Transition	122714.951	532659.263	2666627.551	122734.951	532658.967	2666607.906	20.000		Right	20.00	20	7.00%
						Arc	122734.951	532656.967	2666607.906	122756.841	532639.483	2666596.614	21.890					
						Transition	122756.841	532639.483	2666596.614	122776.841	532620.631	2666602.599	20.000	297 8 42.7				
43	532528.951	2666649.606	275	20	57.5	Straight	122776.841	532620.631	2666602.599	122836.543	532567.505	2666629.838	59.702					
						Transition	122836.543	532567.505	2666629.838	122866.543	532539.228	2666638.817	30.000		Left	30.00	-30	7.00%
						Arc	122866.543	532539.228	2666638.817	122880.866	532525.536	2666635.102	14.323					
						Transition	122880.866	532525.536	2666635.102	122910.866	532505.675	2666613.063	30.000	212 29 40.3				
44	532486.34	2666582.706	58	55	0.5	Straight	122910.866	532505.675	2666613.063	122911.830	532505.157	2666592.714	0.964		Right	30.00	41	7.00%
						Transition	122911.830	532505.157	2666592.714	122936.830	532489.722	2666585.124	25.000					
						Arc	122936.830	532489.722	2666585.124	122952.559	532476.056	2666582.310	15.729					
						Transition	122952.559	532476.056	2666582.310	122977.559	532451.315	2666582.310	25.000	269 24 40.8				
45	532427.359	2666582.1	339	4	54.7	Straight	122977.559	532451.315	2666582.310	122981.072	532447.802	2666581.621	3.513		Left	30.00	-70	5.71%
						Transition	122981.072	532447.802	2666581.621	122996.072	532432.825	2666579.600	15.000					
						Arc	122996.072	532432.825	2666579.600	123006.629	532422.474	2666574.605	10.557					
						Transition	123006.629	532422.474	2666574.605	123021.629	532408.339	2666568.829	15.000	248 29 35.5				
46	532379.413	2666563.207	32	6	37.2	Straight	123021.629	532408.339	2666568.829	123037.164	532393.725	2666568.829	0.535		Right	30.00	80	5.00%
						Transition	123037.164	532393.725	2666568.829	123066.999	532364.197	2666568.829	29.835					
						Arc	123066.999	532364.197	2666568.829	123081.999	532349.38	2666568.829	15.000					
						Transition	123081.999	532349.38	2666568.829	123106.422	532325.374	2666573.695	24.423		Left	20.00	-20	7.00%
47	532243.522	2666588.647	211	41	54.5	Straight	123106.422	532325.374	2666573.695	123126.422	532305.599	2666573.695	20.000					
						Transition	123126.422	532305.599	2666573.695	123158.189	532292.889	2666548.150	31.767					
						Arc	123158.189	532292.889	2666548.150	123178.189	532305.112	2666532.600	20.000	132 18 7.2				
						Transition	123178.189	532305.112	2666532.600	123200.447	532322.775	2666519.174	0.258		Left	30.00	-41	7.00%
48	532327.772	2666511.98	309	51	56.4	Straight	123200.447	532322.775	2666519.174	123214.322	532335.964	2666515.083	13.875					
						Transition	123214.322	532335.964	2666515.083	123236.322	532357.869	2666516.120	22.000					
						Arc	123236.322	532357.869	2666516.120	123247.103	532368.549	2666517.589	10.781	82 10 3.7				
						Transition	123247.103	532368.549	2666517.589	123277.103	532398.304	2666517.413	30.000		Right	30.00	35	7.00%
49	532402.926	2666522.318	57	30	55.8	Straight	123277.103	532398.304	2666517.413	123282.237	532403.096	2666515.581	5.134					
						Transition	123282.237	532403.096	2666515.581	123312.237	532425.378	2666495.860	30.000					
						Arc	123312.237	532425.378	2666495.860	123337.213	532441.537	2666476.818	24.976	139 40 59.5				
						Transition	123337.213	532441.537	2666476.818	123352.213	532451.384	2666465.502	15.000		Left	40.00	-200	3.56%
50	532458.558	2666456.758	349	15	30.4	Straight	123352.213	532451.384	2666465.502	123374.708	532467.472	2666449.796	22.495					
						Transition	123374.708	532467.472	2666449.796	123389.708	532479.019	2666440.223	15.000					
						Arc	123389.708	532479.019	2666440.223	123419.497	532502.188	2666421.500	29.789	128 56 29.9				
						Transition	123419.497	532502.188	2666421.500	123439.497	532517.314	2666408.429	20.000		Right	40	101	7.00%
51	532530.220	2666398.848	28	52	22.7	Straight	123439.497	532517.314	2666408.429	123470.394	532535.673	2666383.728	30.897					
						Transition	123470.394	532535.673	2666383.728	123490.394	532543.829	2666365.476	20.000					
						Arc	123490.394	532543.829	2666365.476	123530.814	532559.092	2666328.048	40.420	157 48 52.6				
						Transition	123530.814	532559.092	2666328.048	123550.814	532563.425	2666308.750	20.000		Right	20.00	20	7.00%
52	532588.363	2666256.269	145	45	16.8	Straight	123550.814	532563.425	2666308.750	123581.892	532541.837	2666299.132	30.878					
						Transition	123581.892	532541.837	2666299.132	123601.892	532523.774	2666299.132	20.000					
						Arc	123601.892	532523.774	2666299.132	123647.831	532485.330	2666324.644	46.139	303 34 9.4				
						Transition	123647.831	532485.330	2666324.644	123667.831	532467.267	2666332.702	20.000		Left	20.00	-20	7.00%
53	532444.547	2666351.709	236	10	6.6	Straight	123667.831	532467.267	2666332.702	123691.056	532447.956	2666322.283	23.225					
						Transition	123691.056	532447.956	2666322.283	123711.056	532444.771	2666302.783	20.000					
						Arc	123711.056	532444.771	2666302.783	123731.018	532444.862	2666282.803	19.960	179 44 16				
						Transition	123731.018	532444.862	2666282.803	123746.016	532444.560	2666267.810	15.000		Right	30.00	101	3.96%
54	532444.963	2666260.815	16	18	47.8	Straight	123746.016	532444.560	2666267.810	123759.773	532442.672	2666254.194	13.757					
						Transition	123759.773	532442.672	2666254.194	123774.773	532438.883	2666239.884	15.000					
						Arc	123774.773	532438.883	2666239.884	123780.382	532437.333	2666234.294	5.609	196 3 3.8				
						Transition	123780.382	532437.333	2666234.294	123805.382	532431.686	2666209.967	25.000		Left	40.00	-80	7.00%
55	532428.176	2666202.468	331	11	47	Straight	123805.382	532431.686	2666209.967	123820.600	532431.249	2666194.779	15.218					
						Transition	123820.600	532431.249	2666194.779	123845.600	532435.486	2666170.168	25.000					
						Arc	123845.600	532435.486	2666170.168	123900.983	532447.712	2666097.015	55.383	187 14 50.8				
						Transition	123900.983	532447.712	2666097.015	123920.983	532453.406	2666076.681	20.000		Left	30.00	-50	7.00%
56	532455.513	2666081.681	306	31	38.7	Straight	123920.983	532453.406	2666076.681	123947.647	532470.162							

HORIZONTAL ALIGNMENT REPORT

HIP / Curve No.	HIP		Deflection Angle			Element	Start			End			Length (m)	Bearing (dd mm ss)	Hand of Arc	Design Speed (KMH)	Radius (m)	Superelevation (%)
	Easting (m)	Northing (m)	Deg	Min	Sec		Chainage (m)	Easting (m)	Northing (m)	Chainage (m)	Easting (m)	Northing (m)						
						Transition	124323.36	532318.13	2665949.057	124338.360	532316.518	2665934.146	15.000					
						Straight	124338.36	532316.518	2665934.146	124338.726	532316.485	2665933.782	0.366	185 12 52.7				
						Transition	124338.726	532316.485	2665933.782	124363.726	532311.721	2665909.345	25.000					
62	532313.466	2665900.701	52	59	54.1	Arc	124363.726	532311.721	2665909.345	124376.650	532304.954	2665898.395	12.924		Right	30	41	7.00%
						Transition	124376.65	532304.954	2665898.395	124401.650	532285.230	2665883.203	25.000					
						Straight	124401.65	532285.23	2665883.203	124410.835	532277.423	2665878.365	9.185	238 12 46.7				
						Transition	124410.835	532277.423	2665878.365	124425.835	532264.544	2665870.678	15.000					
63	532252.520	2665862.932	16	31	46.4	Arc	124425.835	532264.544	2665870.678	124454.110	532238.658	2665859.410	28.275		Right	40	150	4.74%
						Transition	124454.11	532238.658	2665859.41	124469.110	532224.256	2665855.222	15.000					
						Straight	124469.11	532224.256	2665855.222	124496.293	532198.031	2665848.069	27.183	254 44 33.1				
						Transition	124496.293	532198.031	2665848.069	124521.293	532174.313	2665840.252	25.000					
64	532159.332	2665837.513	322	2	41.8	Arc	124521.293	532174.313	2665840.252	124549.288	532151.286	2665824.583	27.995		Left	40	-80	7.00%
						Transition	124549.288	532151.286	2665824.583	124574.288	532135.311	2665805.388	25.000					
						Straight	124574.288	532135.311	2665805.388	124596.599	532121.950	2665787.520	22.311	216 47 15				
						Transition	124596.599	532121.95	2665787.52	124621.599	532105.096	2665769.196	25.000					
65	532098.873	2665756.659	64	6	57.8	Arc	124621.599	532105.096	2665769.196	124642.479	532085.832	2665761.741	20.880		Right	30	41	7.00%
						Transition	124642.479	532085.832	2665761.741	124667.479	532061.033	2665763.948	25.000					
						Straight	124667.479	532061.033	2665763.948	124672.060	532056.535	2665764.815	4.581	280 54 12.8				
						Transition	124672.06	532056.535	2665764.815	124697.060	532031.736	2665767.022	25.000					
66	532027.328	2665770.441	314	54	42.2	Arc	124697.06	532031.736	2665767.022	124704.325	532024.630	2665765.558	7.265		Left	30	-41	7.00%
						Transition	124704.325	532024.63	2665765.558	124729.325	532002.723	2665753.729	25.000					
						Straight	124729.325	532002.723	2665753.729	124817.026	531930.174	2665704.453	87.701	235 48 55				
						Transition	124817.026	531930.174	2665704.453	124832.026	531917.872	2665695.871	15.000					
67	531910.953	2665691.398	351	0	17.5	Arc	124832.026	531917.872	2665695.871	124848.425	531905.075	2665685.825	16.399		Left	40	-200	3.56%
						Transition	124848.425	531905.075	2665685.825	124863.425	531894.010	2665675.498	15.000					
						Straight	124863.425	531894.01	2665675.498	124899.537	531867.677	2665650.787	36.112	226 49 12.5				
						Transition	124899.537	531867.677	2665650.787	124919.537	531852.655	2665637.596	20.000					
68	531845.481	2665629.959	22	50	47.8	Arc	124919.537	531852.655	2665637.596	124939.810	531835.446	2665626.944	20.273		Right	40	101	7.00%
						Transition	124939.81	531835.446	2665626.944	124959.810	531816.940	2665619.382	20.000					
						Straight	124959.81	531816.94	2665619.382	125032.453	531748.823	2665594.140	72.643	249 40 0.3				
						Transition	125032.453	531748.823	2665594.14	125047.453	531734.675	2665589.164	15.000					
69	531726.945	2665586.033	12	2	44.6	Arc	125047.453	531734.675	2665589.164	125063.989	531718.660	2665585.079	16.536		Right	40	150	4.74%
						Transition	125063.989	531718.66	2665585.079	125078.989	531703.857	2665582.670	15.000					
						Straight	125078.989	531703.857	2665582.67	125084.159	531698.740	2665581.925	5.170	261 42 45				
						Transition	125084.159	531698.74	2665581.925	125099.159	531683.984	2665579.270	15.000					
70	531633.420	2665572.410	284	10	21.3	Arc	125099.159	531683.984	2665579.27	125183.417	531628.685	2665521.603	84.258		Left	30	-75	5.33%
						Transition	125183.417	531628.685	2665521.603	125198.417	531626.652	2665506.748	15.000					
						Straight	125198.417	531626.652	2665506.748	125282.362	531618.045	2665423.246	83.945	185 53 6.3				
						Transition	125282.362	531618.045	2665423.246	125302.362	531615.340	2665403.439	20.000					
71	531614.283	2665386.752	29	33	34.7	Arc	125302.362	531615.34	2665403.439	125334.469	531604.057	2665373.524	32.107		Right	40.00	101	7.00%
						Transition	125334.469	531604.057	2665373.524	125354.469	531593.007	2665356.864	20.000					
						Straight	125354.469	531593.007	2665356.864	125358.397	531590.729	2665353.663	3.928	215 26 40.9				

APPROVED



Wushy

Shambhavi Techno Solutions Pvt. Ltd.
Managing Director

DESIGN DIRECTOR

Rev.	Date	Description

CLIENT:	EPC CONTRACTOR:	AUTHORITY ENGINEER:	SAFETY CONSULTANT:	PROOF CONSULTANT:	DESIGN CONSULTANT:	PROJECT:	DRAWN:	AMIT	TITLE:
						Widening to 2 (Two) Lane with Hard shoulder of Churachandpur to Tuvali section of NH 102B from Km 118.850 to Km 130.000 (Package-4A) in the State of Manipal on Engineering, Procurement & Construction (EPC) mode.	DESIGNED:	MURARI	HORIZONTAL ALIGNMENT REPORT
	JC - 25, Sector - III, Salt Lake, Kolkata - 700098.	M/S CHAITANYA PROJECTS CONSULTANCY PVT. LTD. IN ASSOCIATION WITH MSPARK FUTURISTICS AND ASSOCIATES C-52ND FLOOR, R.K. TOWER, SECTOR-V, VAISHALI, GHANADAN-201612.	PP-87, Tankapuri Road, BBSR-18, Odisha	E-82, Rajesh Kumar Path, S.K. Puri, Boring Road, Patna-800001	# 510 & 511, JMD Megapolis, Sector-48, Gurugram, Haryana - 122018.		CHECKED:	VIPUL	SCALE: AS SHOWN
							DATE:	OCT - 2020	REV: RO
									DRG. NO: GPT/CCT/4A/NW/GEN/HOR/01

VERTICAL ALIGNMENT REPORT

S.No.	Vertical Intersection Points			Element	Vertical Tangent Points					Radius (m)	M Value	K Value	Length of Element (m)
	Chainage (m)	Level (m)	%Grade Diff.		Start Chainage (m)	Level (m)	End Chainage (m)	Level (m)	Grade (%)				
1				Grade	118850.000	604.935	119061.881	595.102	-4.641				211.881
2	119091.881	593.710	4.096	Sag Curve	119061.881	595.102	119121.881	593.547		1465	6.827	14.648	60.000
3				Grade	119121.881	593.547	119211.881	593.057	-0.544				90.000
4	119241.881	592.894	-5.234	Hog Curve	119211.881	593.057	119271.881	591.160		-1146	-8.723	11.464	60.000
5				Grade	119271.881	591.160	119291.881	590.004	-5.778				20.000
6	119391.881	584.226	4.103	Sag Curve	119291.881	590.004	119491.881	582.551		4875	2.051	48.746	200.000
7	119541.881	581.714	-3.670	Hog Curve	119491.881	582.551	119591.881	579.041		-2725	-3.670	27.248	100.000
8				Grade	119591.881	579.041	119695.944	573.479	-5.345				104.063
9	119725.945	571.875	2.870	Sag Curve	119695.944	573.479	119755.944	571.132		2091	4.783	20.906	60.000
10				Grade	119755.944	571.132	119800.944	570.019	-2.475				45.000
11	119875.944	568.162	-1.683	Hog Curve	119800.944	570.019	119950.944	565.044		-8913	-1.122	89.132	150.000
12				Grade	119950.944	565.044	119995.944	563.172	-4.158				45.000
13	120025.945	561.925	0.771	Sag Curve	119995.944	563.172	120055.944	560.909		7784	1.285	77.842	60.000
14				Grade	120055.944	560.909	120100.944	559.385	-3.387				45.000
15	120175.945	556.844	-2.612	Hog Curve	120100.944	559.385	120250.944	552.345		-5743	-1.741	57.435	150.000
16				Grade	120250.944	552.345	120274.379	550.939	-5.999				23.435
17	120349.379	546.440	3.757	Sag Curve	120274.379	550.939	120424.379	544.758		3993	2.504	39.931	150.000
18	120499.379	543.076	-2.363	Hog Curve	120424.379	544.758	120574.379	539.622		-6348	-1.575	63.480	150.000
19				Grade	120574.379	539.622	120722.662	532.793	-4.605				148.283
20	120752.662	531.411	4.605	Sag Curve	120722.662	532.793	120782.662	531.411		1303	7.676	13.028	60.000
21				Grade	120782.662	531.411	120935.204	531.411	0.000				152.542
22	120950.204	531.411	5.999	Sag Curve	120935.204	531.411	120965.204	532.311		500	19.997	5.001	30.000
23				Grade	120965.204	532.311	121350.205	555.407	5.999				385.001
24	121700.204	576.404	1.001	Sag Curve	121350.205	555.407	122050.205	600.904		69930	0.143	699.301	700.000
25				Grade	122050.205	600.904	122088.791	603.605	7.000				38.586
26	122163.791	608.855	-3.383	Hog Curve	122088.791	603.605	122238.791	611.568		-4434	-2.255	44.341	150.000
27				Grade	122238.791	611.568	122394.311	617.193	3.617				155.520
28	122424.311	618.278	1.830	Sag Curve	122394.311	617.193	122454.311	619.912		3278	3.051	32.780	60.000
29				Grade	122454.311	619.912	122544.709	624.837	5.448				90.398
30	122574.709	626.471	-0.859	Hog Curve	122544.709	624.837	122604.709	627.848		-6987	-1.431	69.869	60.000
31				Grade	122604.709	627.848	122773.043	635.572	4.589				168.334
32	122803.043	636.949	-1.887	Hog Curve	122773.043	635.572	122833.043	637.759		-3179	-3.146	31.791	60.000
33				Grade	122833.043	637.759	122923.043	640.190	2.701				90.000
34	122953.043	641.001	-0.442	Hog Curve	122923.043	640.190	122983.043	641.679		-13589	-0.736	135.888	60.000
35				Grade	122983.043	641.679	123028.043	642.696	2.260				45.000
36	123103.043	644.391	3.042	Sag Curve	123028.043	642.696	123178.043	648.367		4931	2.028	49.311	150.000
37				Grade	123178.043	648.367	123279.657	653.754	5.302				101.614
38	123309.657	655.345	-2.147	Hog Curve	123279.657	653.754	123339.657	656.291		-2795	-3.578	27.949	60.000
39				Grade	123339.657	656.291	123447.726	659.701	3.155				108.069
40	123477.726	660.648	-2.232	Hog Curve	123447.726	659.701	123507.726	660.924		-2688	-3.721	26.876	60.000
41				Grade	123507.726	660.924	123527.726	661.109	0.923				20.000
42	123627.726	662.031	4.386	Sag Curve	123527.726	661.109	123727.726	667.340		4560	2.193	45.597	200.000
43				Grade	123727.726	667.340	123747.726	668.402	5.309				20.000
44	123777.726	669.995	0.553	Sag Curve	123747.726	668.402	123807.726	671.753		10853	0.921	108.526	60.000
45				Grade	123807.726	671.753	123810.629	671.923	5.862				2.903
46	123960.629	680.716	0.929	Sag Curve	123810.629	671.923	124110.629	690.902		32283	0.310	322.831	300.000
47				Grade	124110.629	690.902	124196.819	696.755	6.791				86.190
48	124296.819	703.546	-0.792	Hog Curve	124196.819	696.755	124396.819	709.545		-25254	-0.396	252.538	200.000
49				Grade	124396.819	709.545	124397.345	709.577	5.999				0.526
50	124447.345	712.576	1.001	Sag Curve	124397.345	709.577	124497.345	716.076		9990	1.001	99.900	100.000
51				Grade	124497.345	716.076	124584.438	722.173	7.000				87.093
52				Hog Curve	124584.438	722.173	125314.438	759.012		-18684	-0.535	186.839	730.000
53				Sag Curve	125314.438	759.012	125358.397	760.371	3.093				43.959

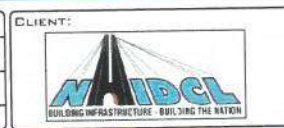
APPROVED



Shambhavi Techno Solutions Pvt. Ltd.

Managing Director

Rev.	Date	Description

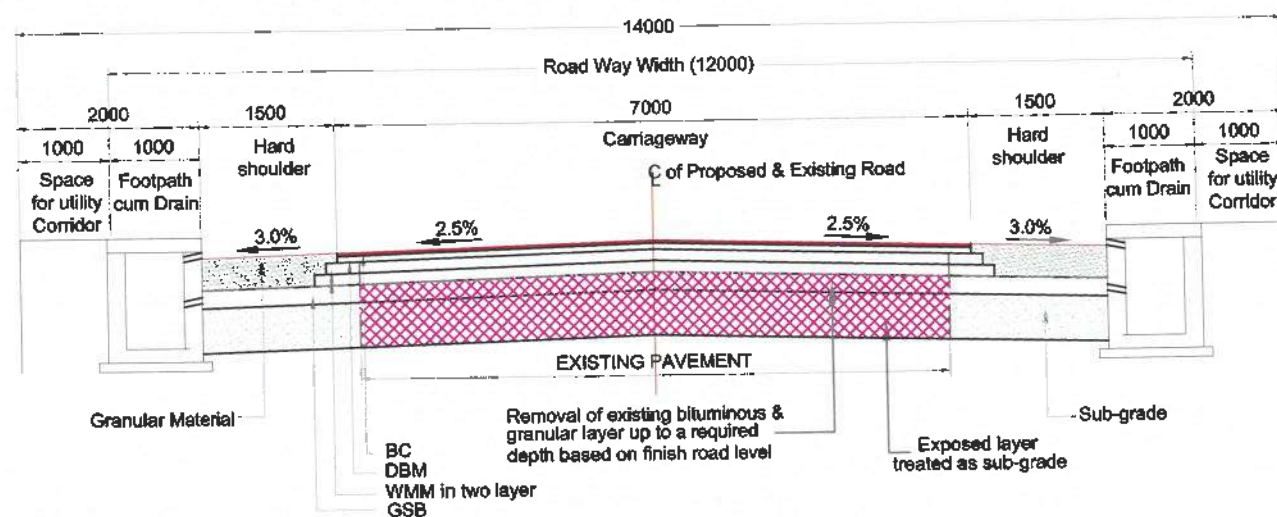


PROJECT: Widening to 2 (Two) Lane with Hard shoulder of Churachandpur to Tuvel section of NH 102B from Km 118.860 to Km 130.000 (Package-4A) in the State of Manipur on Engineering, Procurement & Construction (EPC) mode.

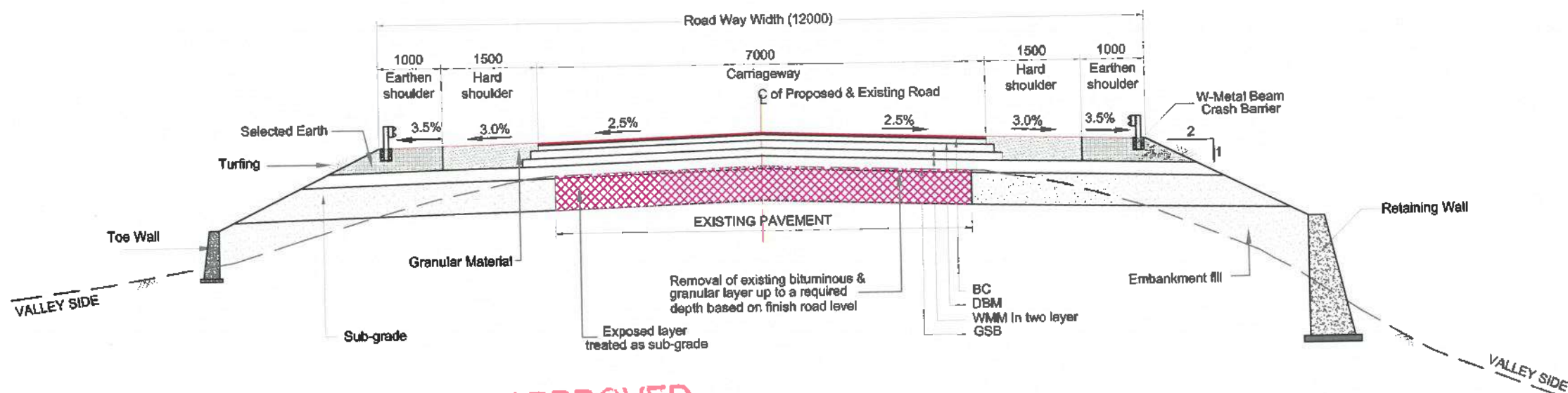
DRAWN	AMIT
DESIGNED	MURARI
CHECKED	VIPUL
DATE:	OCT - 2020

TITLE: VERTICAL ALIGNMENT REPORT	
SCALE: AS SHOWN	
DRG. NO: GPT/CCT/4A/NH/GEN/VER/01	
REV:	R0

TYPICAL CROSS SECTION



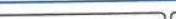
TCS-1 :- TYPICAL CROSS SECTION OF TWO LANE CARRIAGEWAY WITH HARD SHOULDER IN BUILT UP AREA WITH BOTH SIDE FOOTPATH CUM RCC RECTANGULAR DRAIN
(RECONSTRUCTION OF EXISTING PAVEMENT)



(RECONSTRUCTION OF EXISTING PAVEMENT)

NOTES:

1. PAVEMENT THICKNESS AS PER PAVEMENT DESIGN REPORT.

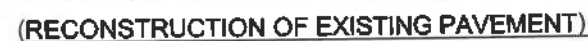
Rev.			Date	Description	CLIENT:	EPC CONTRACTOR:	AUTHORITY ENGINEER:	SAFETY CONSULTANT:	PROOF CONSULTANT:	DESIGN CONSULTANT:	PROJECT:	DRAWN:	AMT:	TITLE:	
					 MIDCL BUILDING INFRASTRUCTURE. BUILDING THE NATION.	 GPT group JC - 25, Sector - III, Salt Lake, Kolkata - 700098.	 M/S CHAITANYA PROJECTS CONSULTANCY PVT.LTD. IN ASSOCIATION WITH MSPARK FUTURISTICS AND ASSOCIATES C-52ND FLOOR, J.K.TOWNSH, SECTOR-4, VASHPALL, GUANABAD-301010.	 SUYADRA CONSULTANCY PVT.LTD. E-82, Rajesh Kumar Path, S.k.Puri, Boring Road, Patna-800001	 SHAMBHAVI TECHNO SOLUTIONS PVT.LTD. E-82, Rajesh Kumar Path, S.k.Puri, Boring Road, Patna-800001	 SPS Technocrats Pvt. Ltd. #510 & 511, JMD Megacode, Sector 46, Gurugram, Haryana - 122016.	PROJECT: Widening to 2 (Two) Lane with Hard shoulder of Charuchandpur to Tulsi section of NH 102B from Km 118.850 to Km 130.000 (Package-4A) in the State of Manipur on Engineering, Procurement & Construction (EPC) mode.	DRAWN: DESIGNED: CHECKED: DATE: OCT - 2020	AMT MURARI VIPUL OCT - 2020	TITLE: TYPICAL CROSS SECTION SCALE: AS SHOWN DRG. NO: GPT/CTT4A/HW/GENTC3/01	REV: R0



Shambhavi Techno Solutions Pvt. Ltd.
Managing Director

Hush

SUVADRA CONSULTANTS
Regd. No.
11/2004-05
BHUBANESWAR



NOTES:

Rev.	Date	Description

CLIENT:



NIDCL
BUILDING INFRASTRUCTURE - BUILDING THE NATION

EPC CONTRACTOR:

GPT
group

JC - 25, Sector - III, Salt Lake,
Kolkata - 700068.

AUTHORITY ENGINEER:

 M/S CHAITANYA PROJECTS
CONSULTANCY PVT.LTD.
IN ASSOCIATION WITH MSPARK
FUTURISTICS AND ASSOCIATES
C-6,2ND FLOOR, R.K.TOWER,
SECTOR-4,VASHTHALL, GHAZIABAD-201910

SAFETY CONSULTANT:

 **SUYADRA**
CONSULTANTS
PVT. LTD.
1001, 1002, 1003, 1004, 1005, 1006, 1007, 1008, 1009, 1010, 1011, 1012, 1013, 1014, 1015, 1016, 1017, 1018, 1019, 1020, 1021, 1022, 1023, 1024, 1025, 1026, 1027, 1028, 1029, 1030, 1031, 1032, 1033, 1034, 1035, 1036, 1037, 1038, 1039, 1040, 1041, 1042, 1043, 1044, 1045, 1046, 1047, 1048, 1049, 1050, 1051, 1052, 1053, 1054, 1055, 1056, 1057, 1058, 1059, 1060, 1061, 1062, 1063, 1064, 1065, 1066, 1067, 1068, 1069, 1070, 1071, 1072, 1073, 1074, 1075, 1076, 1077, 1078, 1079, 1080, 1081, 1082, 1083, 1084, 1085, 1086, 1087, 1088, 1089, 1090, 1091, 1092, 1093, 1094, 1095, 1096, 1097, 1098, 1099, 1100, 1101, 1102, 1103, 1104, 1105, 1106, 1107, 1108, 1109, 1110, 1111, 1112, 1113, 1114, 1115, 1116, 1117, 1118, 1119, 1120, 1121, 1122, 1123, 1124, 1125, 1126, 1127, 1128, 1129, 1130, 1131, 1132, 1133, 1134, 1135, 1136, 1137, 1138, 1139, 1140, 1141, 1142, 1143, 1144, 1145, 1146, 1147, 1148, 1149, 1150, 1151, 1152, 1153, 1154, 1155, 1156, 1157, 1158, 1159, 1160, 1161, 1162, 1163, 1164, 1165, 1166, 1167, 1168, 1169, 1170, 1171, 1172, 1173, 1174, 1175, 1176, 1177, 1178, 1179, 1180, 1181, 1182, 1183, 1184, 1185, 1186, 1187, 1188, 1189, 1190, 1191, 1192, 1193, 1194, 1195, 1196, 1197, 1198, 1199, 1200, 1201, 1202, 1203, 1204, 1205, 1206, 1207, 1208, 1209, 1210, 1211, 1212, 1213, 1214, 1215, 1216, 1217, 1218, 1219, 1220, 1221, 1222, 1223, 1224, 1225, 1226, 1227, 1228, 1229, 1230, 1231, 1232, 1233, 1234, 1235, 1236, 1237, 1238, 1239, 1240, 1241, 1242, 1243, 1244, 1245, 1246, 1247, 1248, 1249, 1250, 1251, 1252, 1253, 1254, 1255, 1256, 1257, 1258, 1259, 1260, 1261, 1262, 1263, 1264, 1265, 1266, 1267, 1268, 1269, 1270, 1271, 1272, 1273, 1274, 1275, 1276, 1277, 1278, 1279, 1280, 1281, 1282, 1283, 1284, 1285, 1286, 1287, 1288, 1289, 1290, 1291, 1292, 1293, 1294, 1295, 1296, 1297, 1298, 1299, 1300, 1301, 1302, 1303, 1304, 1305, 1306, 1307, 1308, 1309, 1310, 1311, 1312, 1313, 1314, 1315, 1316, 1317, 1318, 1319, 1320, 1321, 1322, 1323, 1324, 1325, 1326, 1327, 1328, 1329, 1330, 1331, 1332, 1333, 1334, 1335, 1336, 1337, 1338, 1339, 1340, 1341, 1342, 1343, 1344, 1345, 1346, 1347, 1348, 1349, 1350, 1351, 1352, 1353, 1354, 1355, 1356, 1357, 1358, 1359, 1360, 1361, 1362, 1363, 1364, 1365, 1366, 1367, 1368, 1369, 1370, 1371, 1372, 1373, 1374, 1375, 1376, 1377, 1378, 1379, 1380, 1381, 1382, 1383, 1384, 1385, 1386, 1387, 1388, 1389, 1390, 1391, 1392, 1393, 1394, 1395, 1396, 1397, 1398, 1399, 1400, 1401, 1402, 1403, 1404, 1405, 1406, 1407, 1408, 1409, 1410, 1411, 1412, 1413, 1414, 1415, 1416, 1417, 1418, 1419, 1420, 1421, 1422, 1423, 1424, 1425, 1426, 1427, 1428, 1429, 1430, 1431, 1432, 1433, 1434, 1435, 1436, 1437, 1438, 1439, 1440, 1441, 1442, 1443, 1444, 1445, 1446, 1447, 1448, 1449, 1450, 1451, 1452, 1453, 1454, 1455, 1456, 1457, 1458, 1459, 1460, 1461, 1462, 1463, 1464, 1465, 1466, 1467, 1468, 1469, 1470, 1471, 1472, 1473, 1474, 1475, 1476, 1477, 1478, 1479, 1480, 1481, 1482, 1483, 1484, 1485, 1486, 1487, 1488, 1489, 1490, 1491, 1492, 1493, 1494, 1495, 1496, 1497, 1498, 1499, 1500, 1501, 1502, 1503, 1504, 1505, 1506, 1507, 1508, 1509, 1510, 1511, 1512, 1513, 1514, 1515, 1516, 1517, 1518, 1519, 1520, 1521, 1522, 1523, 1524, 1525, 1526, 1527, 1528, 1529, 1530, 1531, 1532, 1533, 1534, 1535, 1536, 1537, 1538, 1539, 1540, 1541, 1542, 1543, 1544, 1545, 1546, 1547, 1548, 1549, 1550, 1551, 1552, 1553, 1554, 1555, 1556, 1557, 1558, 1559, 1560, 1561, 1562, 1563, 1564, 1565, 1566, 1567, 1568, 1569, 1570, 1571, 1572, 1573, 1574, 1575, 1576, 1577, 1578, 1579, 1580, 1581, 1582, 1583, 1584, 1585, 1586, 1587, 1588, 1589, 1590, 1591, 1592, 1593, 1594, 1595, 1596, 1597, 1598, 1599, 1600, 1601, 1602, 1603, 1604, 1605, 1606, 1607, 1608, 1609, 1610, 1611, 1612, 1613, 1614, 1615, 1616, 1617, 1618, 1619, 1620, 1621, 1622, 1623, 1624, 1625, 1626, 1627, 1628, 1629, 1630, 1631, 1632, 1633, 1634, 1635, 1636, 1637, 1638, 1639, 1640, 1641, 1642, 1643, 1644, 1645, 1646, 1647, 1648, 1649, 1650, 1651, 1652, 1653, 1654, 1655, 1656, 1657, 1658, 1659, 1660, 1661, 1662, 1663, 1664, 1665, 1666, 1667, 1668, 1669, 1670, 1671,

PROOF CONSULTANT:

 **SHAMBHAVI TECHNO
SOLUTIONS PVT.LTD**
E-82, Rajesh Kumar Path,
S.K.Puri, Boring Road,
Patna-800001

DESIGN CONSULTANT:

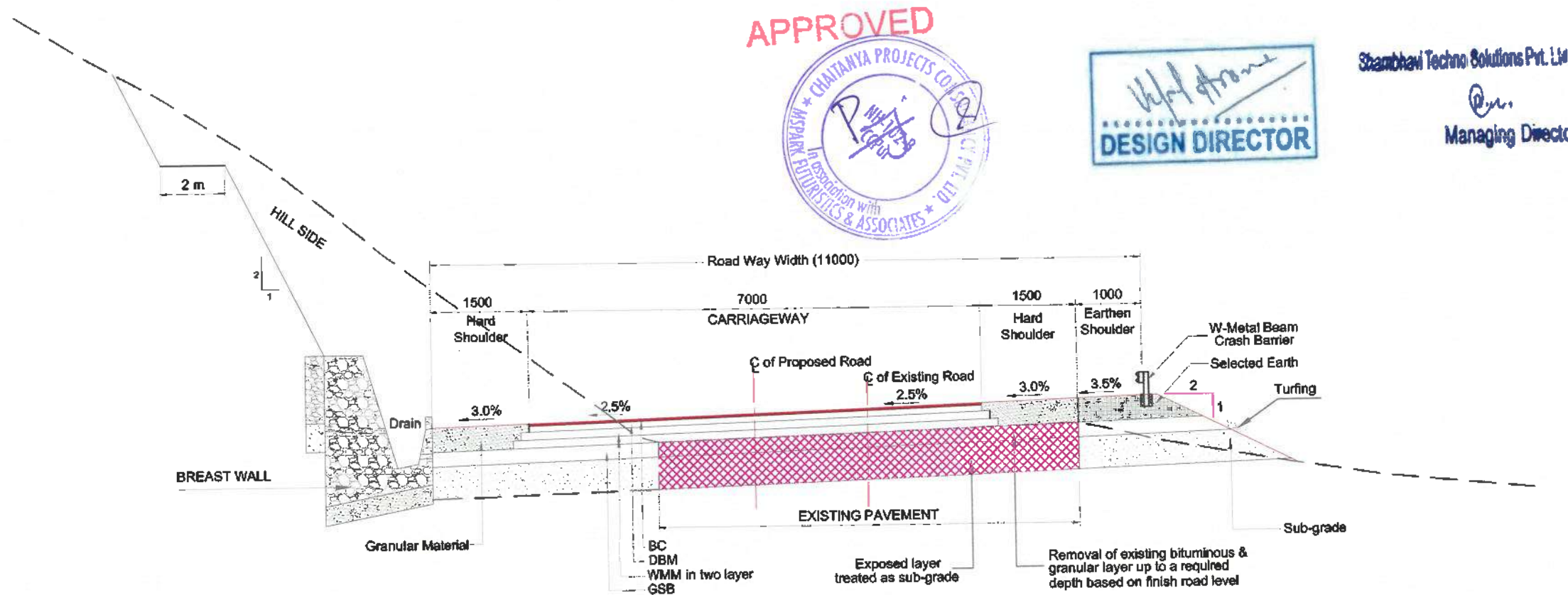
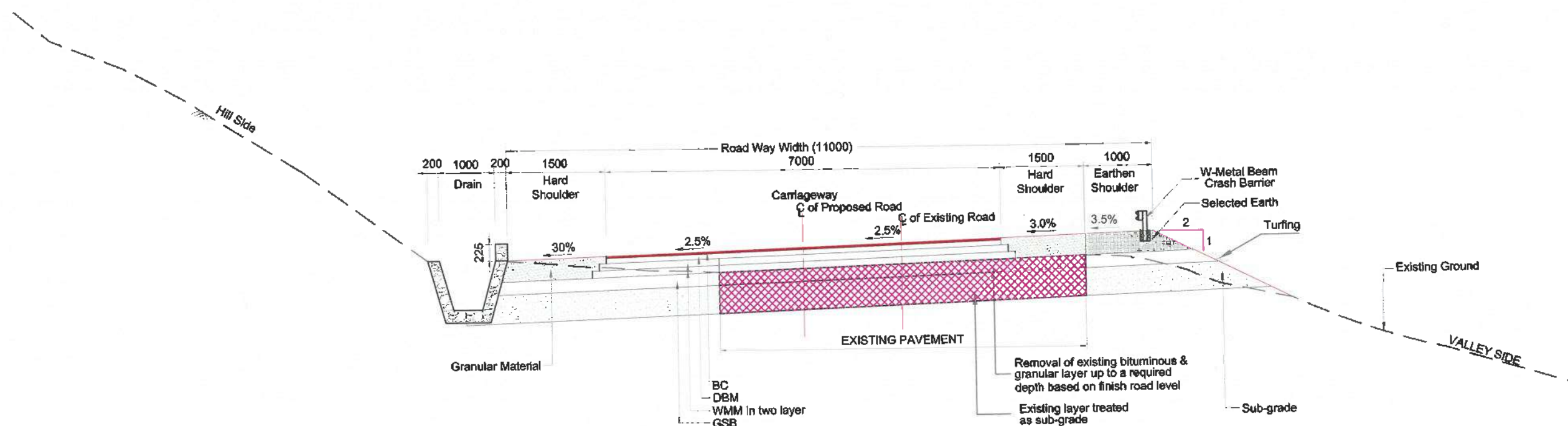
 **SPS Technocrats Pvt. Ltd.**
510 & 511, JMD Megapolis, Sector 48,
Gurgaon, Haryana - 122018.

Widening to 2 (Two) Lane with Hard shoulder of Churachandpur to Tuwail section of NH 102B from Km 118.050 to Km 130.000 (Package-4A) in the State of Manipur on Engineering, Procurement & Construction (EPC) mode.

DRAWN	AMT
DESIGNED	MURARI
CHECKED	VIPUL
DATE: OCT - 2020	

TITLE:	TYPICAL CROSS SECTION
SCALE:	A3 SHOWN
DES. NO:	GPT/CCT/4A/HW/GEN/TCS/03

REV: R0



NOTES:

1. PAVEMENT THICKNESS AS PER PAVEMENT DESIGN REPORT.

Rev.	Date	Description

CLIENT:



NAIDCL
BUILDING INFRASTRUCTURE - BUILDING THE NATION

EPC CONTRACTOR:

GPT
group

JC - 25, Sector - III, Salt Lake,
Kolkata - 700098.

AUTHORITY ENGINEER:

 M/S CHAITANYA PROJECTS
CONSULTANCY PVT.LTD.
IN ASSOCIATION WITH MSPARK
FUTURISTICS AND ASSOCIATES
C-5/2ND FLOOR, P.K TOWER,
SECTOR-4, VAISHALI, GHAZIABAD-201010

SAFETY CONSULTANT:

 **SUVADRA**
CONSULTANTS
est. 1990 2025 Certified
Civil Engineering & Designing & Construction
Management, India, & Overseas. Tel. 91 93299 01

**PP-97, Tankapuri Road,
BBSR-18, Odisha**

PROOF CONSULTANT:

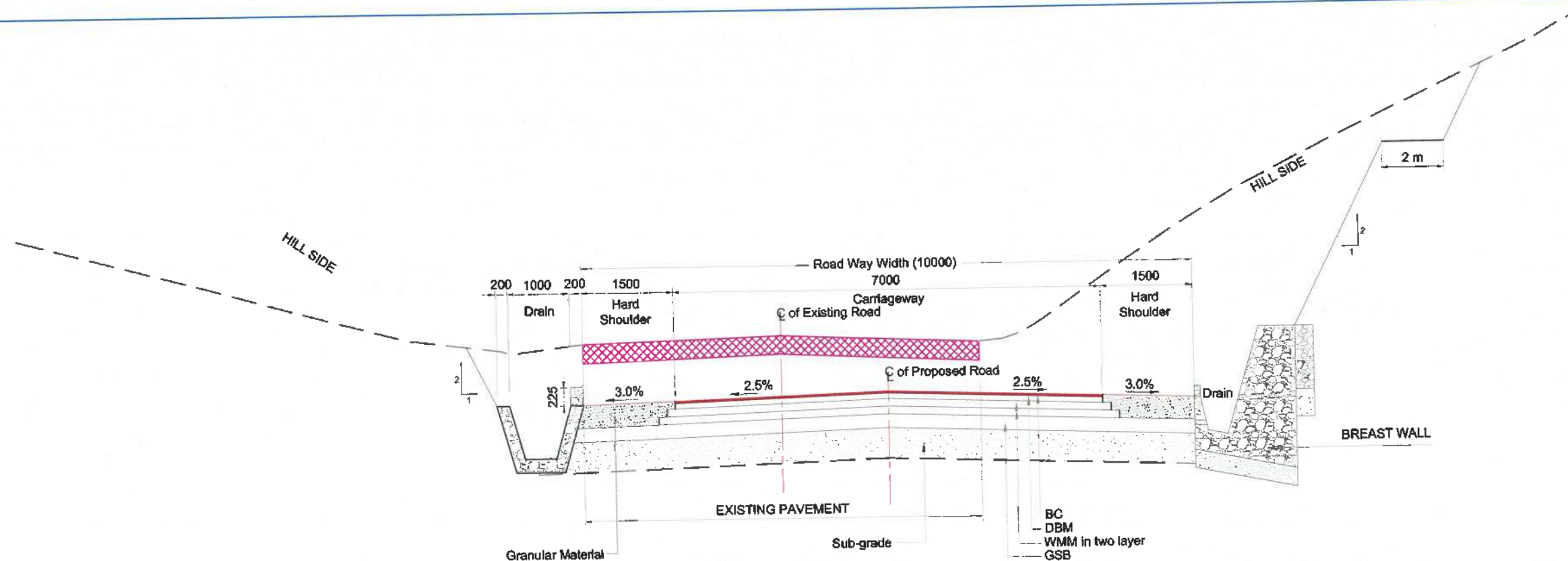
 **SHAMBHAVI TECHNO
SOLUTIONS PVT.LTD.**
E-82, Rajesh Kumar Path,
S.k.Puri, Borling Road,
Palna-800001

 **SPS Technocrats Pvt. Ltd.**
9/510 & 511, JMD Nagapols, Sector 48,
Gurgaon, Haryana - 122018.

Widening to 2 (Two) Lane with Hard shoulder of Churashandpur to Tuhril section of NH 102B from Km 118.850 to Km 130.000 (Package-4A) in the State of Manipur on Engineering, Procurement & Construction (EPC) mode.

DESIGNED	MURARI
CHECKED	VIPUL
DATE: OCT - 2020	

SCALE:	AS SHOWN	REV:	
ORG. NO:	OPT/CCT/4A/HW/GEN/TC8/05		R0

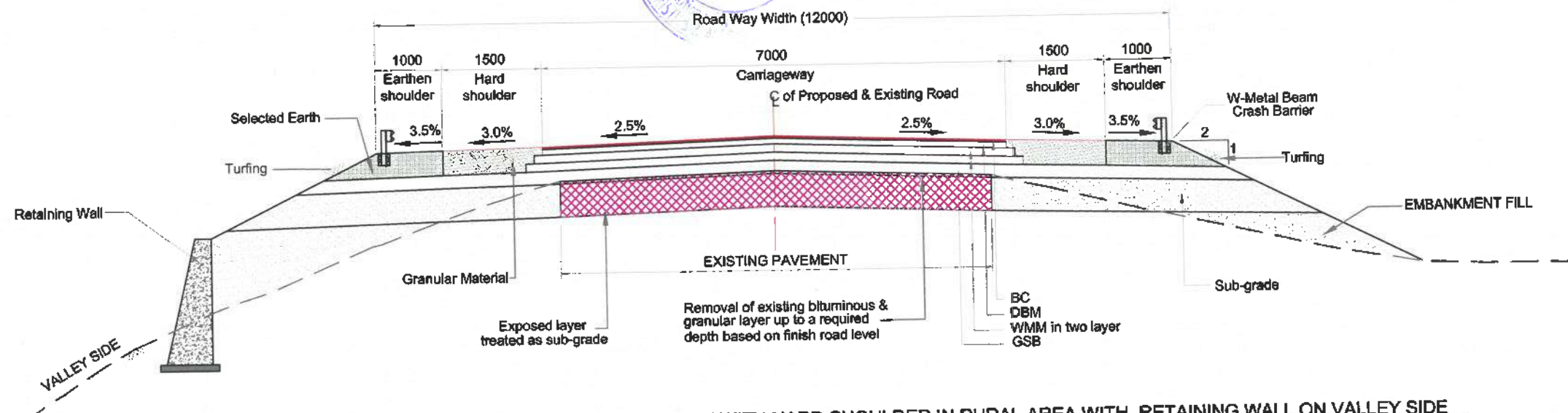


TCS-9 :- TYPICAL CROSS SECTION OF TWO LANE CARRIAGEWAY WITH HARD SHOULDER AT CUTTING SECTION IN RURAL AREA WITH BREAST WALL ON HILL SIDE
(RECONSTRUCTION OF EXISTING PAVEMENT)

APPROVED



Shambhavi Techno Solutions Pvt. Ltd.
Managing Director

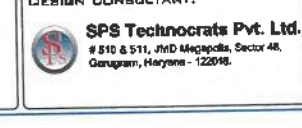
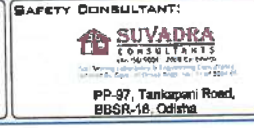


TCS-10 :- TYPICAL CROSS SECTION OF TWO LANE CARRIAGEWAY WITH HARD SHOULDER IN RURAL AREA WITH RETAINING WALL ON VALLEY SIDE
(RECONSTRUCTION OF EXISTING PAVEMENT)

NOTES:

- PAVEMENT THICKNESS AS PER PAVEMENT DESIGN REPORT.

Rev.	Date	Description

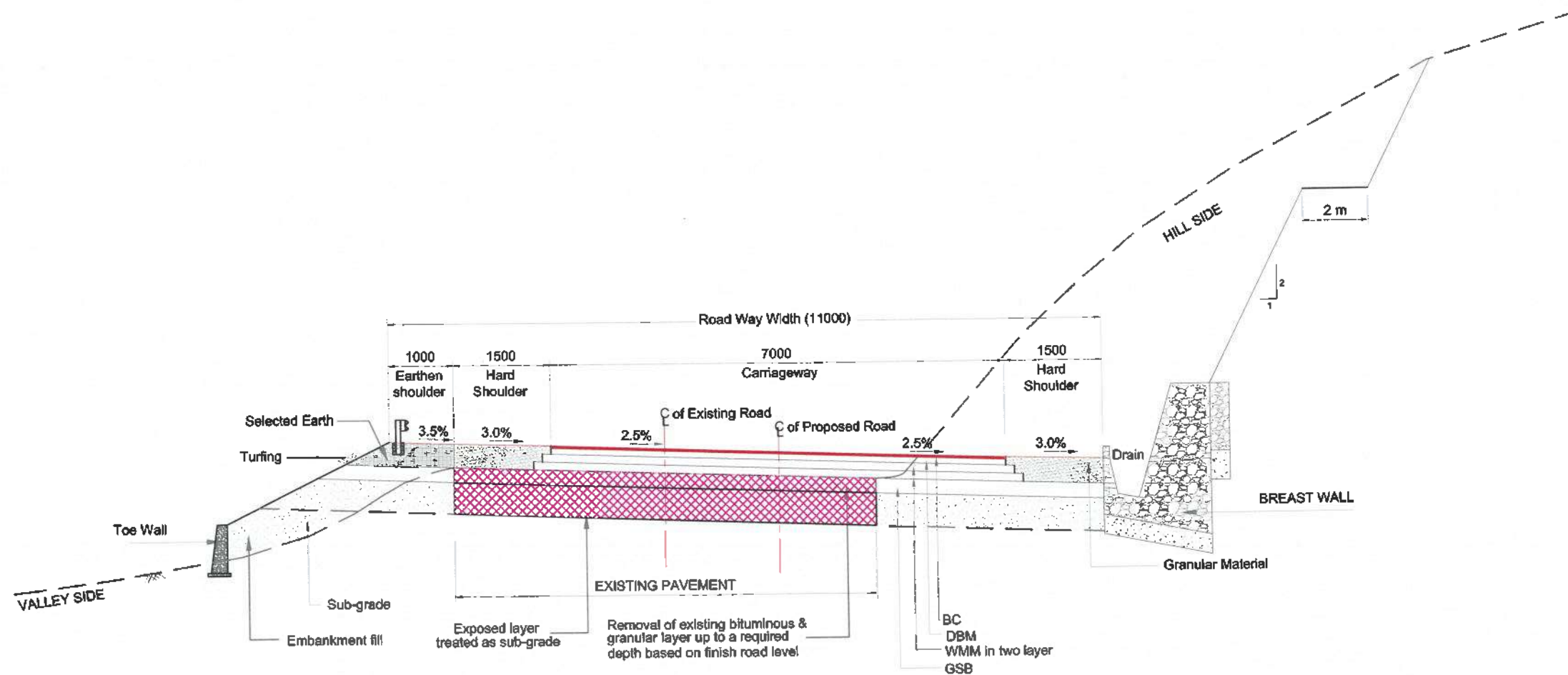


PROJECT: Widening to 2 (Two) Lane with Hard shoulder of Charandpur to Talval section of NH 102B from Km 116.850 to Km 130.800 (Package-4A) in the State of Manipal on Engineering, Procurement & Construction (EPC) mode.

Drawn: AMIT
Designed: MURARI
Checked: VIPUL
DATE: OCT - 2020

TITLE: TYPICAL CROSS SECTION
SCALE: AS SHOWN
DRS. NO: GPT/CCT/4A/HW/GEN/TCS/06

REV: RD



**TCS-14 :-TYPICAL CROSS SECTION OF TWO LANE CARRIAGEWAY WITH HARD SHOULDER AT RECONSTRUCTION STRETCH IN RURAL AREA WITH TOE WALL ON VALLEY SIDE AND BREAST WALL ON HILL SIDE
(RECONSTRUCTION OF EXISTING PAVEMENT)**

APPROVED



Shambhavi Techno Solutions Pvt. Ltd.
Managing Director

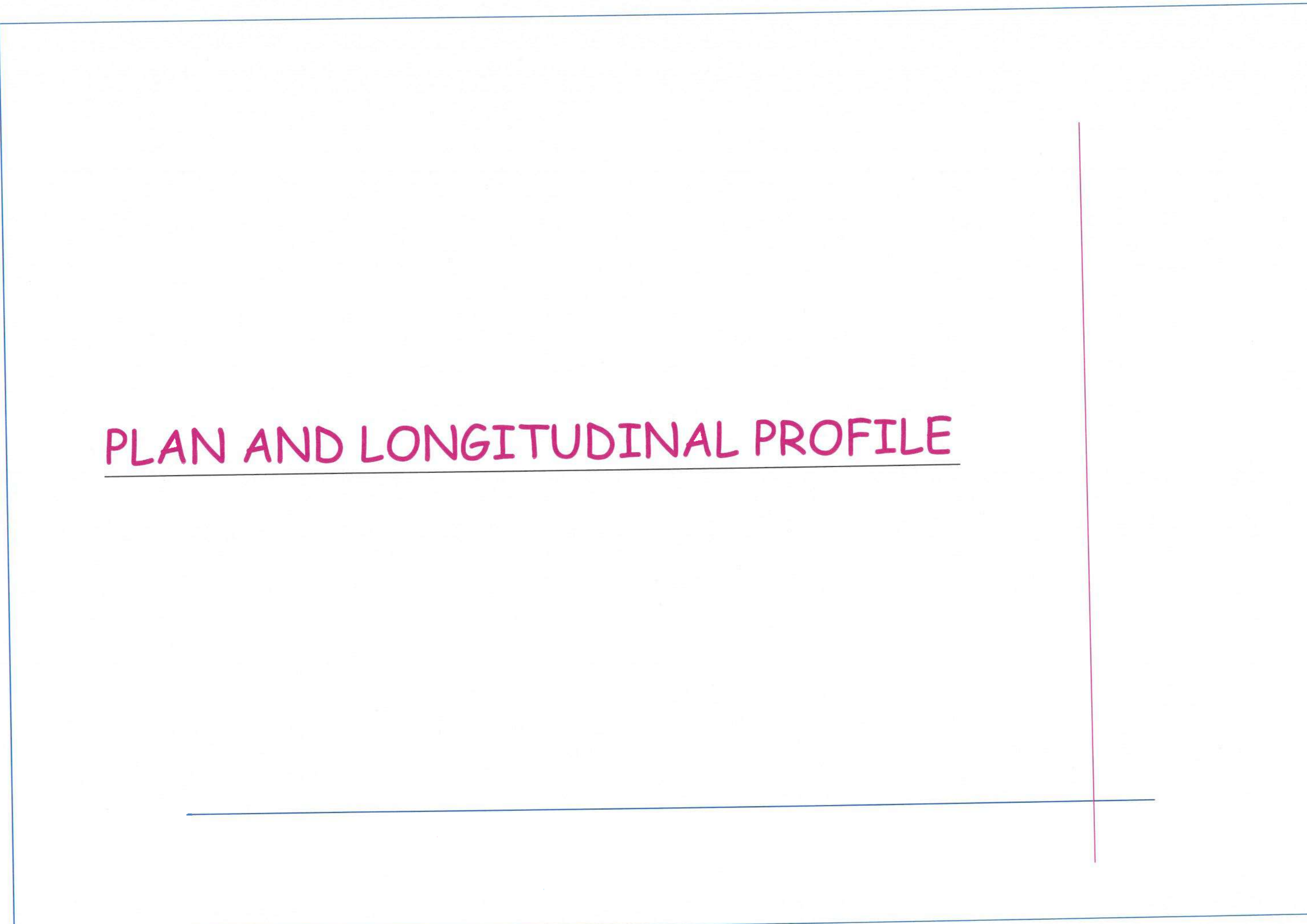


NOTES:

1. PAVEMENT THICKNESS AS PER PAVEMENT DESIGN REPORT.

Rev.	Date	Description	CLIENT:	EPC CONTRACTOR:	AUTHORITY ENGINEER:	SAFETY CONSULTANT:	PROJECT CONSULTANT:	DESIGN CONSULTANT:	PROJECT:	DRAWN:	AMIT:	TITLE:	SCALE:	DATE:	DRG. NO:	REV:
			MIDCL	GPT	M/S CHAITANYA PROJECTS CONSULTANCY PVT. LTD. IN ASSOCIATION WITH MSPARK FUTURISTICS AND ASSOCIATES	SUVADRA CONSULTANTS	SHAMBHAVI TECHNO SOLUTIONS PVT. LTD.	SPS Technocrats Pvt. Ltd.	Widening to 2 (Two) Lane with Hard shoulder of Churudandpur to Tural section of NH 102B from Km 118.650 to Km 130.000 (Package-4A) in the State of Manipal on Engineering, Procurement & Construction (EPC) mode.	MURARI	VIPUL	TYPICAL CROSS SECTION	AS SHOWN	OCT - 2020	GPT/CCT/4A/HW/GEN/TCS/09	R0

PLAN AND LONGITUDINAL PROFILE



EXIST. ROAD

K-1/R : KACHA RESIDENTIAL

K-1/C : KACHA COMMERCIAL

SP-1/R : SEMI PUGCA RESI.

SP-1/C : SEMI PUGCA COMM.

P-1/R : PUGCA RESIDENTIAL

P-1/C : PUGCA COMMERCIAL

TOE LINE
ES EDGE
HS EDGE
C/W EDGE
GEN. LINE
C/W EDGE
HS EDGE
ES EDGE
TOE LINE

—PROW— PROPOSED ROW

 CULVERT BRIDGE

- PROP. LEVEL
- EXIS. ROAD LEVEL
- LEFT 6M LEVEL
- EXIST. LEVEL AT PRO. CL
- RIGHT 6M LEVEL
- VER. TANGENT POINT

5.0 GRID LINE

BOX DULVERT

Level Datum= 580(M) ▼

PROP. ROAD LEVELS (M)

EXIST LEVELS
AT PROP. CL (M) _____

EXISTING ROAD
LEVEL (M)

**HORIZONTAL
SCHEMATIC (M)**

VERTICAL (G=%)
SCHEMATIC (L=m)

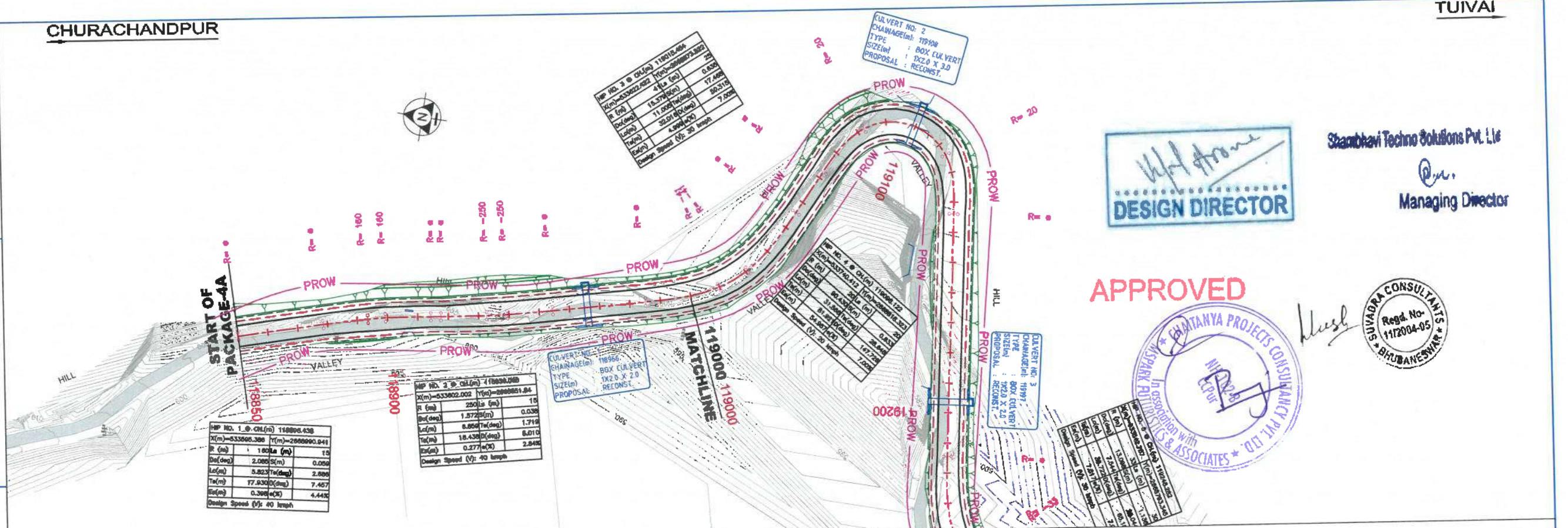
WIDENING
SCHEMATIC (A)

SUPERELEVATION	LE
SCHEMATIC (e in %)	RIG

CHAINAGE (M)

Rev.	Date	Description
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CHURACHANDPUR



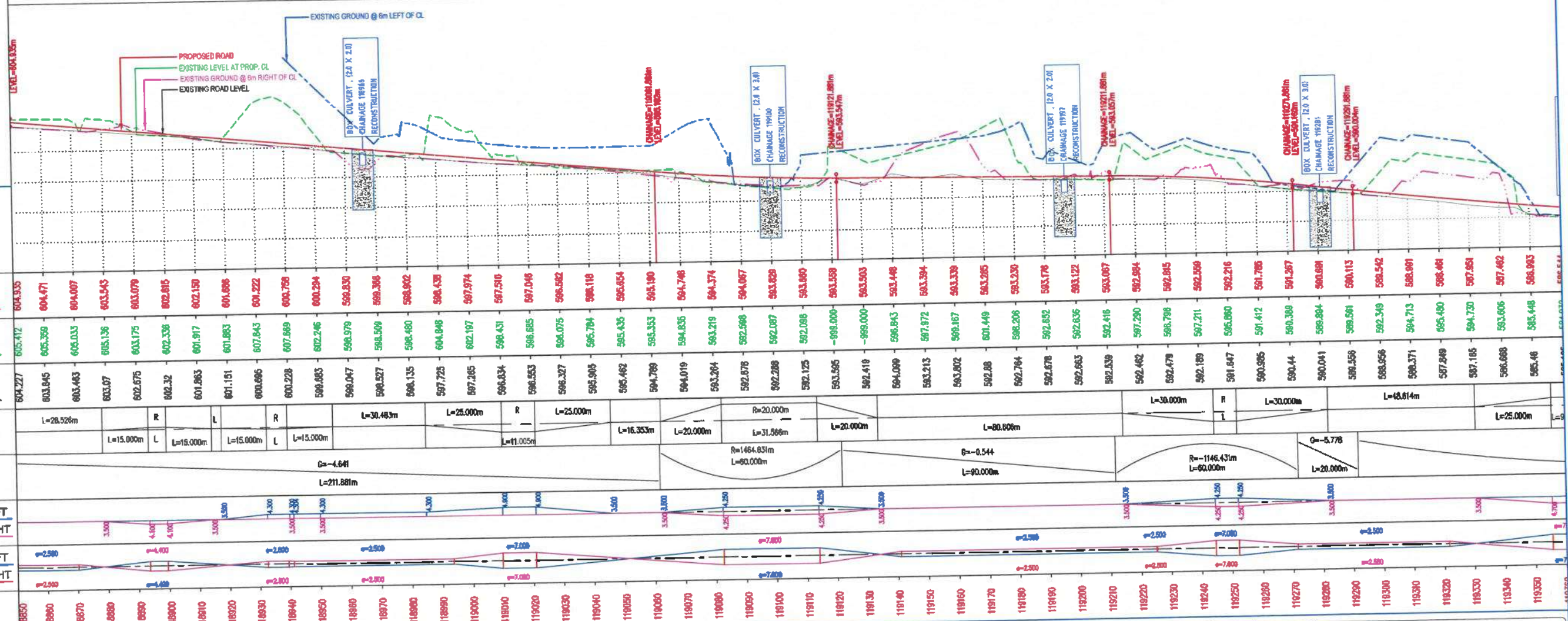
APPROVED

Shambhavi Techno Solutions Pvt. Ltd


Managing Director



A circular purple stamp from Chamanya Projects Consultancy Pvt. Ltd. is stamped over the signature. The stamp contains the text "CHAMANYA PROJECTS CONSULTANCY PVT. LTD." around the top edge and "In association with" around the bottom edge. In the center, the word "Nil" is handwritten vertically, and the date "28/08" is handwritten horizontally. The stamp also includes a star symbol and the text "ASPARK PILLAI" on the left side.



CLIENT:



NADCL
BUILDING INFRASTRUCTURE - BUILDING THE NATION

EPC CONTRACTOR:

GPT
group

JC - 25, Sector - (ii), Salt Lake,
Kolkata - 700098.

AUTHORITY ENGINEER:

 **M/S CHAITANYA PROJECTS
CONSULTANCY PVT. LTD.
IN ASSOCIATION WITH MSPARK
FUTURISTICS AND ASSOCIATES
G-6, 2ND FLOOR, R.K. TOWER,
SECTOR-4, VAISHALI, GHAZIABAD-201010**

[illegible]

PROOF CONSULTANT:

 **SHAMBHAVI TECHNO
SOLUTIONS PVT.LTD**
E-62, Rajesh Kumar Path,
S.K.Puri, Boring Road,
Patna-800001

 **SPS Technocrats Pvt. Ltd.**
510 & 511, JMD Megapolis, Sector 48,
Gurgaon, Haryana - 122018.

Widening to 2 (Two) Lane with Hard shoulder of Churachandpur to Tuivai section of NH 102B from Km 118.850 to Km 130.000 (Package-4A) in the State of Manipur on Engineering, Procurement & Construction (EPC) mode.

DESIGNED	MURARI
CHECKED	VIPUL
DATE: OCT - 2020	

SCALE: 1:1000000

Rev: RO

EXIST. ROAD

K-1/R : KACHA RESIDENTIAL
K-1/C : KACHA COMMERCIAL
SP-1/R : SEMI PUGGA RESI.
SP-1/C : SEMI PUGGA COMM.
P-1/R : PUGGA RESIDENTIAL
P-1/C : PUGGA COMMERCIAL

1000 CONTOUR

TOE LINE
ES EDGE
HS EDGE
C/W EDGE
GEN. LINE
C/W EDGE
HS EDGE
ES EDGE
TOE LINE

HQR. TANGENT POINT

→PROW→ PROPOSED ROW

DUKE

 BRIDGE

 PROP. LEVEL
 EXIS. ROAD LEVEL
 LEFT 6M LEVEL
 EXIST. LEVEL
 AT PRO. CL
 RIGHT 6M LEVEL
 VER. TANGENT
 POINT

GRID LINE

BOX CULVERT

Level Datum= 580(M)▼

PROP. ROAD LEVELS (M)

EXIST LEVELS
AT PROP. CL (M)

EXISTING ROAD
LEVEL (M)

**HORIZONTAL
SCHEMATIC (M)**

VERTICAL (G=%)
SCHEMATIC (L=m)

WIDENING	LE
----------	----

SUPERELEVATION	LE
----------------	----

Rev.	Date	Description

CLIENT:



EPC CONTRACTOR:



AUTHORITY ENGINEER:

 MIS CHAITANYA PROJECTS
CONSULTANCY PVT. LTD.
IN ASSOCIATION WITH MSPARM
FUTURISTICS AND ASSOCIATES
C-5, 2ND FLOOR, R.K.TOWER,
SECTOR-4, VAISHALI, GHAZIABAD-201010

SAFETY CONSULTANT**PROOF CONSULTANT:**

**SHAMBHAVI TECHNO
SOLUTIONS PVT.LTD.**
E-82, Rajesh Kumar Path,
S.K.Puri, Boring Road,
Palna-800001

DESIGN CONSULTANT:

 **SPS Technocrats Pvt. Ltd.**
510 & 511, JMD Megapolis, Sector 46,
Gurgaon, Haryana - 122016.

PROJECT:
Widen

d. shoulder of Churachandpur to Tulai section of NH 102B from Km 118.850 to Km 130.000 (Package-4A) in the State of Manipur on Engineering, Procurement & Construction (EPC) mode.

DRAWN	DATE
REVIEWED	REMARKS

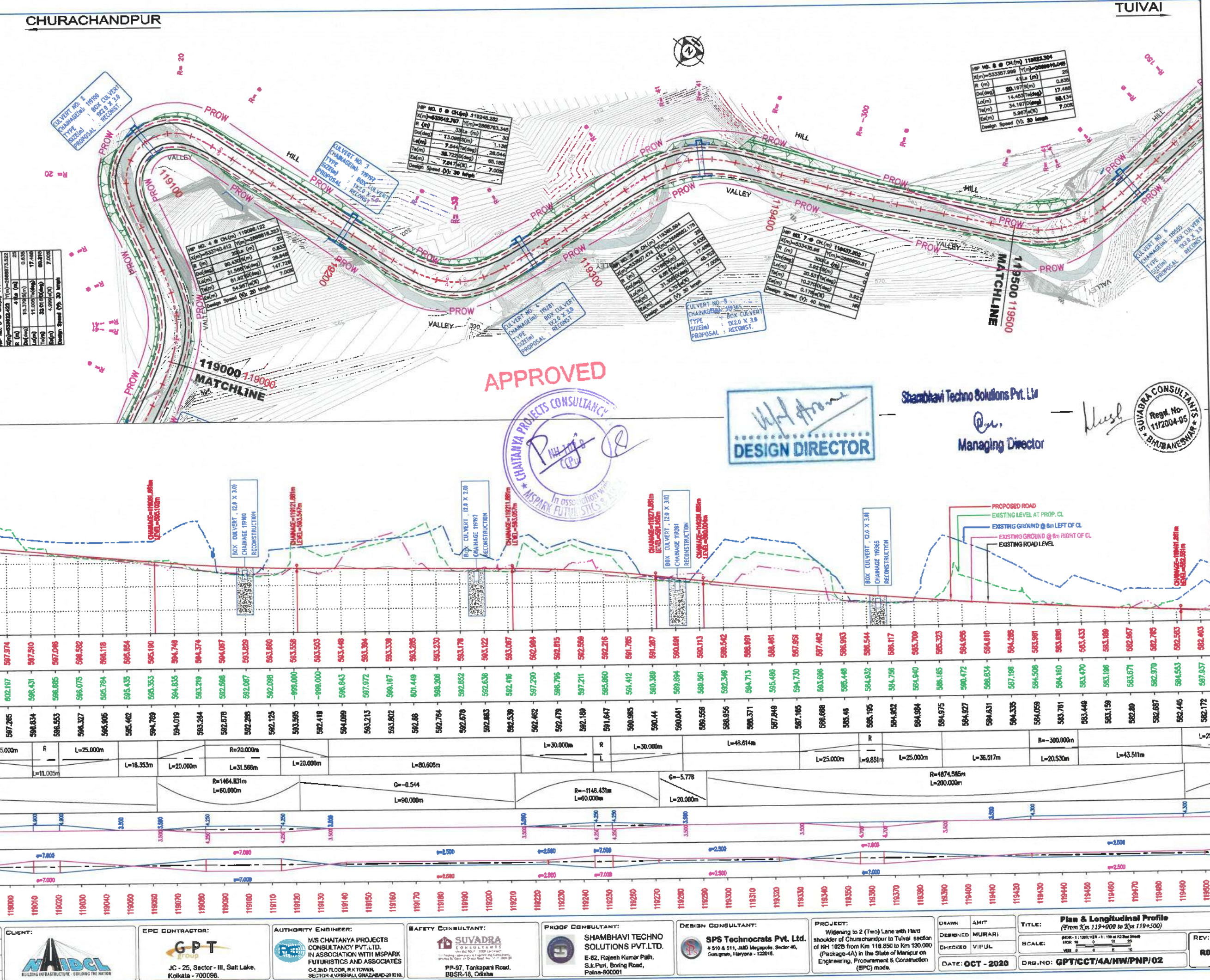
DESIGNED	MURRAY
CHECKED	VIPUL
DATE: OCT - 2021	

TITLE: (From Km 119+000 to Km 119+500)

SCALE: $\mu\text{MOR} = 1:1000$; $\text{VER} = 1:100$ at A3 Sea Level

 MOR 0 10 25
 VER 5 0 5 10

0 Dwg. NO: **GPT/CCT/4A/HW/PPN/02**

REY:
RO

LEGEND :

EXISTING PLAN :

- EXIST. ROAD
- K-I/R : KACHA RESIDENTIAL
K-C : KACHA COMMERCIAL
SP-I/R : SEMI PUCCA RESI.
SP-C : SEMI PUCCA COMM.
P-I/R : PUCCA RESIDENTIAL
P-C : PUCCA COMMERCIAL
- 1:1000 CONTOUR

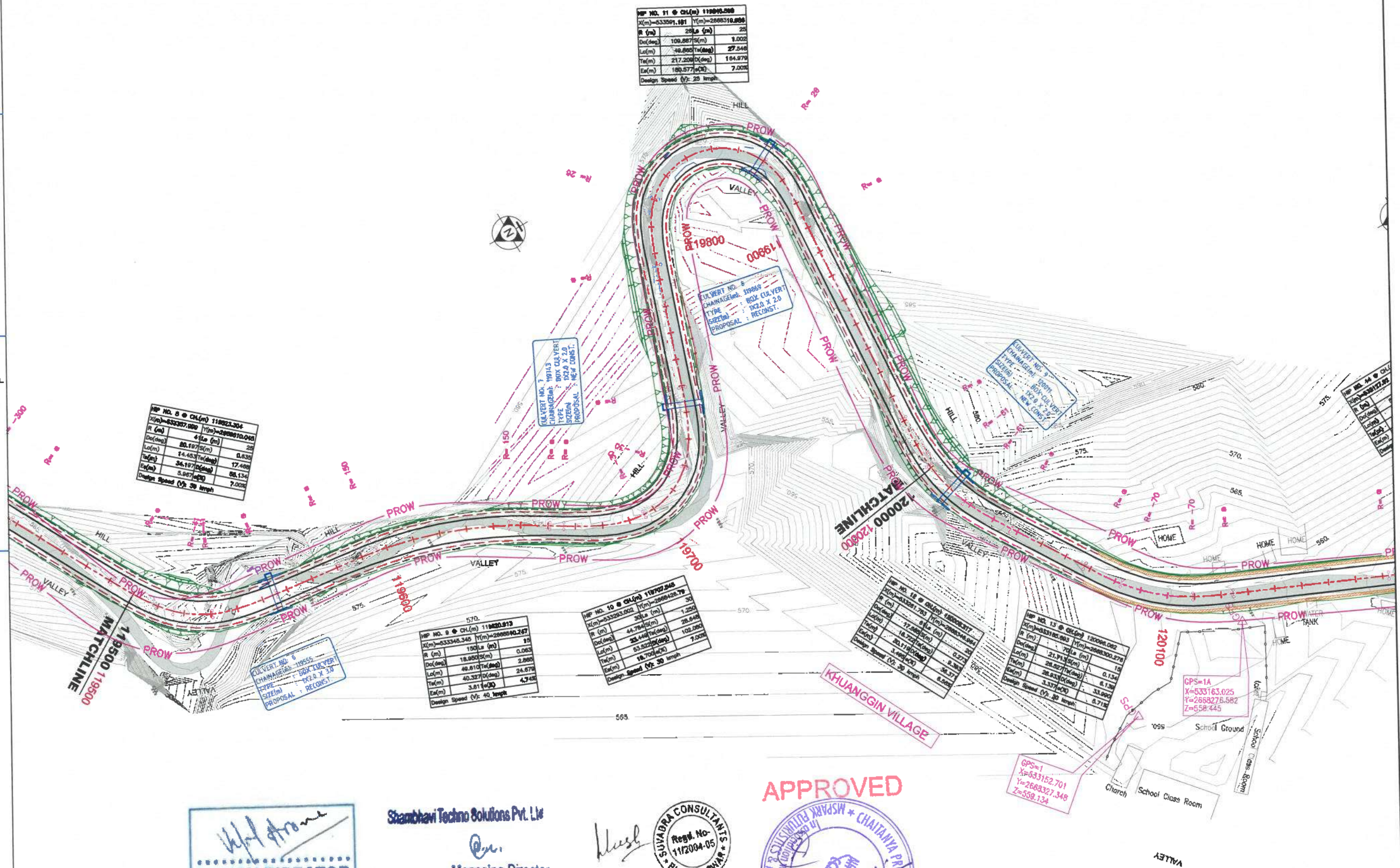
PROPOSED PLAN :

- TOE LINE
ES EDGE
HS EDGE
Q/W EDGE
GEN. LINE
C/W EDGE
HS EDGE
ES EDGE
TOE LINE
- HOR. TANGENT POINT
- PROW PROPOSED ROW
- CULVERT
- BRIDGE

PROPOSED PROFILE :

- PROP. LEVEL
EXIS. ROAD LEVEL
LEFT 6M LEVEL
EXIST. LEVEL
AT PRO. CL
RIGHT 6M LEVEL
VER. TANGENT POINT
- GRID LINE
- BOX CULVERT

CHURACHANDPUR



Rev.	Date	Description

CLIENT:

MAIDCL
BUILDING INFRASTRUCTURE - BUILDING THE NATION

EPC CONTRACTOR:

GPT
JC - 25, Sector - III, Salt Lake, Kolkata - 700096.

AUTHORITY ENGINEER:

M/S CHAITANYA PROJECTS CONSULTANCY PVT. LTD.
IN ASSOCIATION WITH MSPARK FUTURISTICS AND ASSOCIATES
C-52ND FLOOR, R.K. TOWER, SECTOR-4, VIKAS NAGAR, GHAZIABAD-201002.

SAFETY CONSULTANT:

SUVADRA
CONSULTANTS
PP-87, Tankasani Road, BBSR-18, Odisha

PROOF CONSULTANT:

SHAMBHAVI TECHNO SOLUTIONS PVT. LTD.
E-82, Rajesh Kumar Path, S.K. Park, Boring Road, Patna-800001

DESIGN CONSULTANT:

SPS Technocrats Pvt. Ltd.
510 & 511, JMD Megapole, Sector 46, Gurgaon, Haryana - 122016.

PROJECT: Widening to 2 (Two) Lane with Hard shoulder of Churachandpur to Tuivai section of NH 102B from Km 118.850 to Km 130.000 (Package-4A) in the State of Manipur on Engineering, Procurement & Construction (EPC) mode.

DRAWN: AMIT
DESIGNED: MURARI
CHECKED: VIPUL
DATE: OCT - 2020

TITLE: **Plan & Longitudinal Profile**
(From Km 119+500 to Km 120+000)
SCALE: 1:1000 (PLAN) 1:100 (PROFILE)
DRG. NO: **OPT/CCT/4A/HWP/03**

REV: **R0**

CHURACHANDPUR

LEGEND :

EXISTING PLAN :

- EXIST. ROAD
- K-I/R : KACHA RESIDENTIAL
K-I/C : KACHA COMMERCIAL
SP-I/R : SEMI PUCCA RESI.
SP-I/C : SEMI PUCCA COMM.
P-I/R : PUCCA RESIDENTIAL
P-I/C : PUCCA COMMERCIAL
- 1000 CONTOUR

PROPOSED PLAN :

- TOE LINE
ES EDGE
HS EDGE
G/W EDGE
GEN. LINE
C/W EDGE
HS EDGE
ES EDGE
TOE LINE
- HOR. TANGENT POINT
- PROW PROPOSED ROW
- CULVERT
- BRIDGE

PROPOSED PROFILE :

- PROP. LEVEL
EXIS. ROAD LEVEL
LEFT 6M LEVEL
EXIST. LEVEL AT PRO. CL
RIGHT 6M LEVEL
VER. TANGENT POINT
- GRID LINE
- BOX CULVERT

Level Datum = 540(M)

PROP. ROAD LEVELS (M)

EXIST LEVELS AT PROP. CL (M)

EXISTING ROAD LEVEL (M)

HORIZONTAL SCHEMATIC (M)

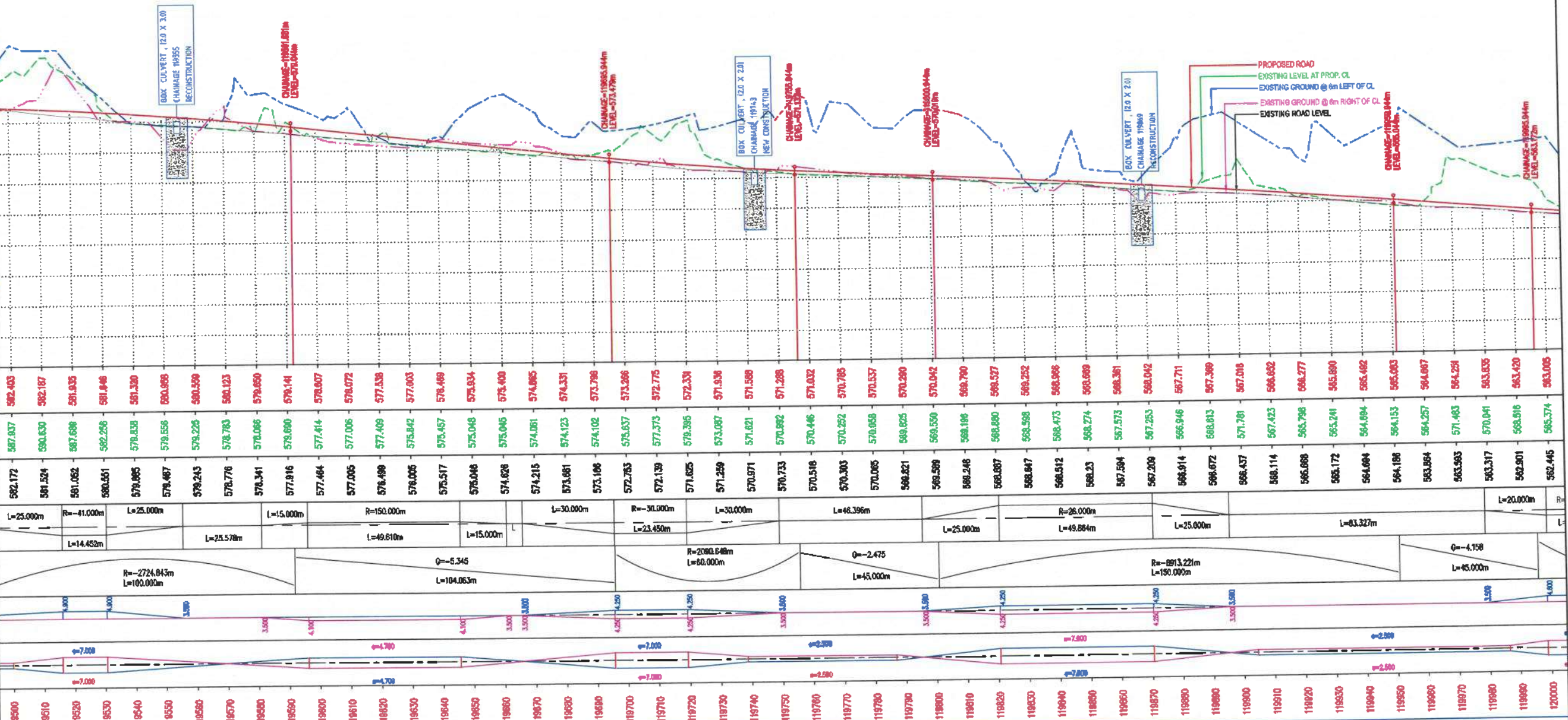
VERTICAL SCHEMATIC (G=%)
(L=m)

WIDENING SCHEMATIC (M)
LEFT
RIGHT

SUPERELEVATION SCHEMATIC (e in %)
LEFT
RIGHT

CHAINAGE (M)

Rev.	Date	Description



APPROVED



Shambhavi Techno Solutions Pvt. Ltd.

Managing Director



CLIENT: BUILDING INFRASTRUCTURE. BUILDING THE NATION	EPC CONTRACTOR: JC - 25, Sector - III, Salt Lake, Kolkata - 700099.	AUTHORITY ENGINEER: M/S CHAITANYA PROJECTS CONSULTANCY PVT. LTD. IN ASSOCIATION WITH MSPARK FUTURISTICS AND ASSOCIATES C-5, 2ND FLOOR, R.K. TOWER, SECTOR-4, VAISHALI, GUWAHATI-781010.	SAFETY CONSULTANT: PP-07, Tankapuri Road, BBSR-18, Odisha	PROOF CONSULTANT: E-82, Rajesh Kumar Path, S.K. Puri, Boring Road, Patna-800001	DESIGN CONSULTANT: # 510 & 511, JMD Nagapada, Sector 48, Gurugram, Haryana - 122018.	PROJECT: Widening to 2 (Two) Lane with Hard shoulder of Churachandpur to Tuwai section of NH 102B from Km 118.850 to Km 130.000 (Package-4A) in the State of Manipur on Engineering, Procurement & Construction (EPC) mode.	DRAWN: AMIT DESIGNED: MURARI CHECKED: VIJUL DATE: OCT - 2020	TITLE: Plan & Longitudinal Profile (From Km 118+300 to Km 120+000) SCALE: HORIZ - 1:1000, VERT - 1:100 (at 20m Chainage) DRS. NO: GPT/CCT/4A/MW/PHP/03a	REV: R0
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LEGEND :

EXISTING PLAN :

EXIST. ROAD
 K-I/R : KACHA RESIDENTIAL
 K-I/C : KACHA COMMERCIAL
 SP-I/R : SEMI PUCCA RESI.
 SP-I/C : SEMI PUCCA COMM.
 P-I/R : PUCCA RESIDENTIAL
 P-I/C : PUCCA COMMERCIAL
 1000 CONTOUR

PROPOSED PLAN :

TOE LINE
 ES EDGE
 HS EDGE
 G/W EDGE
 GEN. LINE
 G/W EDGE
 HS EDGE
 ES EDGE
 TOE LINE
 HOR. TANGENT POINT
 PROW
 PROPOSED ROW
 CULVERT
 BRIDGE

PROPOSED PROFILE :

PROP. LEVEL
 EXIS. ROAD LEVEL
 LEFT 6m LEVEL
 EXIST. LEVEL
 AT PRO. CL
 RIGHT 6m LEVEL
 VER. TANGENT POINT
 GRID LINE
 BOX CULVERT

Level Datum = 525(M) ▼

PROP. ROAD LEVELS (M)

EXIST LEVELS AT PROP. CL (M)

EXISTING ROAD LEVEL (M)

HORIZONTAL SCHEMATIC (M)

VERTICAL SCHEMATIC (G=%) (L=m)

WIDENING SCHEMATIC (M)

SUPERELEVATION SCHEMATIC (e in %)

CHAINAGE (M)

Rev. Date Description

CHURACHANDPUR

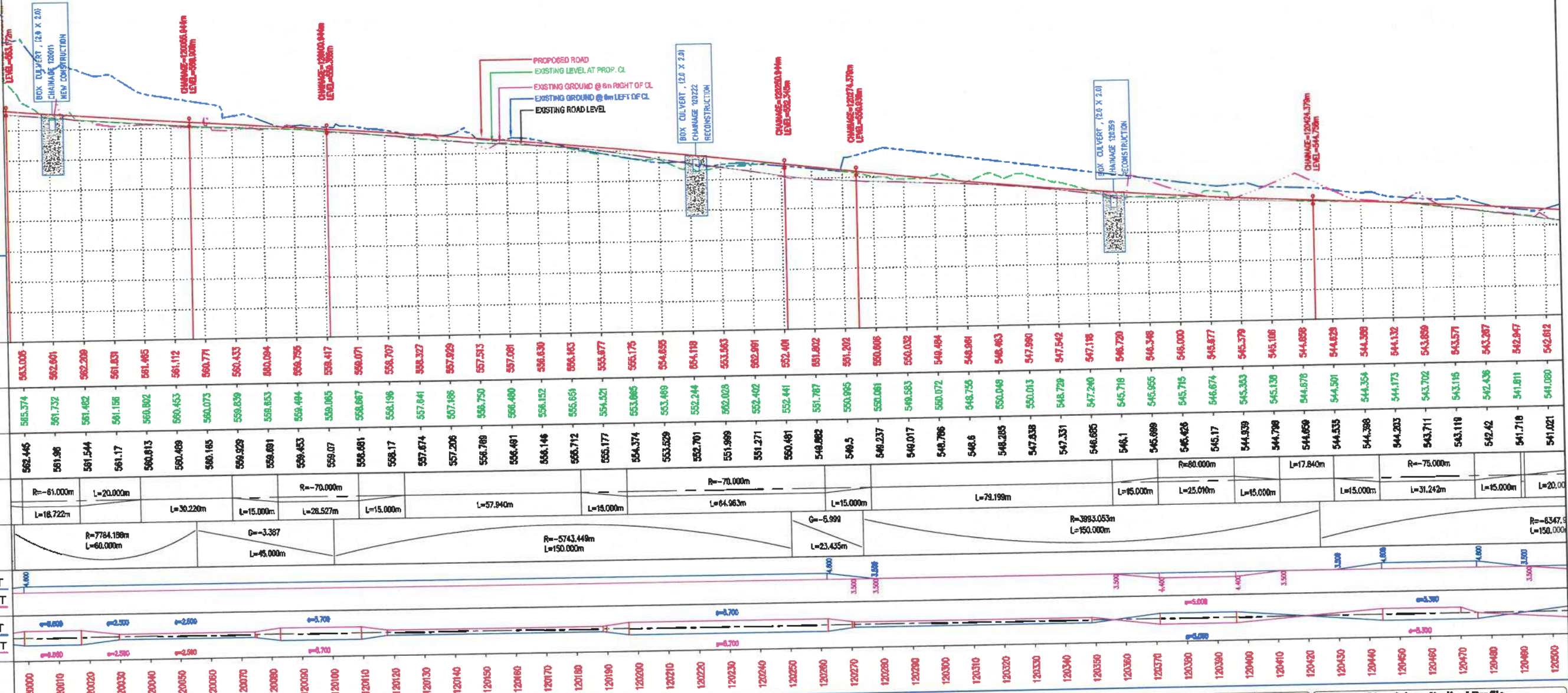
APPROVED



DESIGN DIRECTOR

Shambhavi Techno Solutions Pvt. Ltd.

Managing Director



EPC CONTRACTOR:
GPT
 JC - 25, Sector - III, Salt Lake,
 Kolkata - 700066.

AUTHORITY ENGINEER:
 MS CHAITANYA PROJECTS
 CONSULTANCY PVT. LTD.
 IN ASSOCIATION WITH MSPARK
 FUTURISTICS AND ASSOCIATES
 G-2ND FLOOR, R.K. TOWER,
 SECTOR-4, VAISHALI, GHAZIABAD-201006.

SAFETY CONSULTANT:
SUVADRA
 CONSULTANTS
 PP-87, Tankapuri Road,
 BBSR-16, Odisha

PROJECT CONSULTANT:
SHAMBHAVI TECHNO
SOLUTIONS PVT. LTD.
 E-82, Rajesh Kumar Path,
 S.K. Puri, Boring Road,
 Patna-800001

DESIGN CONSULTANT:
SPS Technocrats Pvt. Ltd.
 # 516 & 511, MID Megapolis, Sector 48,
 Gurugram, Haryana - 120018

PROJECT:
 Widening to 2 (Two) Lane with Hard
 shoulder of Churachandpur to Tuwai section
 of NH 102B from Km 118.880 to Km 130.000
 (Package-4A) in the State of Manipur on
 Engineering, Procurement & Construction
 (EPC) mode.

DRAWN: AMIT
 DESIGNED: MURARI
 CHECKED: VIPUL
 DATE: OCT - 2020

TITLE: **Plan & Longitudinal Profile**
 (From Km 120+000 to Km 120+500)
 SCALE: 1:1000 (PLAN) & 1:100 (PROFILE)
 Dwg. No: **GPT/CCT/4A/HW/PNP/04a**

REV: R0

CHURACHANDPUR

LEGEND :

EXISTING PLAN :

- EXIST. ROAD
- K-I/R : KACHA RESIDENTIAL
K-I/C : KACHA COMMERCIAL
SP-I/R : SEMI PUGGA RESI.
SP-I/C : SEMI PUGGA COMM.
P-I/R : PUGGA RESIDENTIAL
P-I/C : PUGGA COMMERCIAL
- 1000 CONTOUR

PROPOSED PLAN :

- TOE LINE
ES EDGE
HS EDGE
C/W EDGE
GEN. LINE
C/W EDGE
HS EDGE
ES EDGE
TOE LINE

HOR. TANGENT POINT

PROW PROPOSED ROW

CULVERT

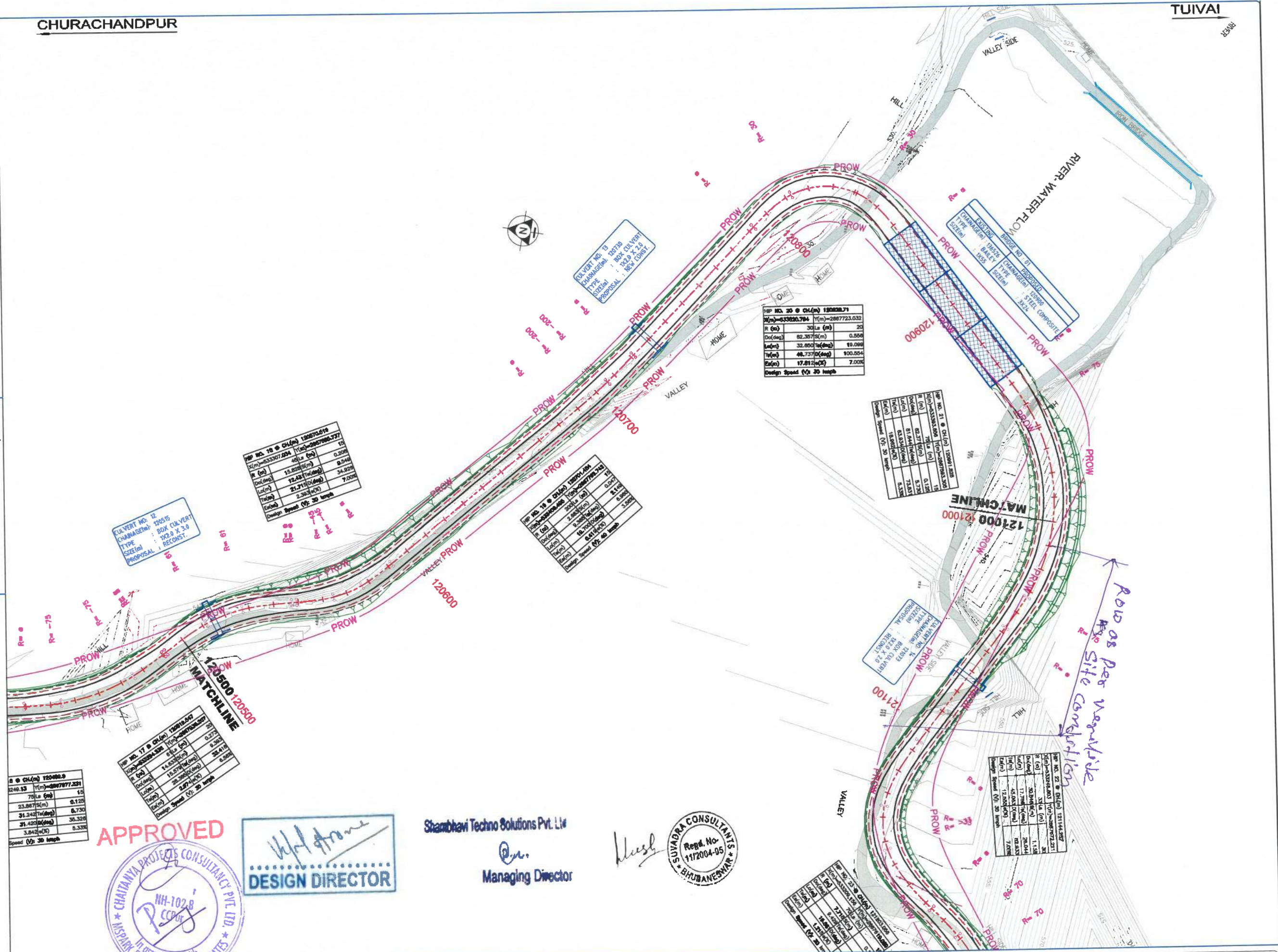
BRIDGE

PROPOSED PROFILE :

- PROP. LEVEL
EXIS. ROAD LEVEL
LEFT 6M LEVEL
EXIST. LEVEL
AT PRO. GL
RIGHT 6M LEVEL
VER. TANGENT POINT

GRID LINE

BOX CULVERT



APPROVED



DESIGN DIRECTOR

Shambhavi Techno Solutions Pvt. Ltd.
Managing Director



Rev.	Date	Description	CLIENT:	DESIGNER:	AUTHORITY ENGINEER:	SAFETY CONSULTANT:	PROOF CONSULTANT:	DESIGN CONSULTANT:	PROJECT:	DRAWN:	ANIT:	TITLE:	SCALE:	DATE:	REV:
			NHIDCL	GPT	M/S CHAITANYA PROJECTS CONSULTANCY PVT. LTD.	SUYADRA CONSULTANTS	SHAMBHAVI TECHNO SOLUTIONS PVT. LTD.	SPS Technocrats Pvt. Ltd.	Widening to 2 (Two) Lane with Hard shoulder of Churachandpur to Tuva section of NH 102B from Km 120+500 to Km 121+000 (Package-4A) in the State of Manipal on Engineering, Procurement & Construction (EPC) mode.	MURARI	VIPUL	Plan & Longitudinal Profile (From Km 120+500 to Km 121+000)	1:1000	OCT - 2020	RO

LEGEND :

EXISTING PLAN :

EXIST. ROAD

K-1/R : KACHA RESIDENTIAL
K-1/C : KACHA COMMERCIAL
SP-1/R : SEMI PUCCA RESI.
SP-1/C : SEMI PUCCA COMM.
P-1/R : PUCCA RESIDENTIAL
P-1/C : PUCCA COMMERCIAL

1000 CONTOUR

PROPOSED PLAN :

TOE LINE
ES EDGE
HS EDGE
G/W EDGE
DEN. LINE
Q/W EDGE
HS EDGE
ES EDGE
TOE LINE

HOR. TANGENT POINT

PROW PROPOSED ROW

CULVERT

BRIDGE

PROPOSED PROFILE :

PROP. LEVEL
EXIS. ROAD LEVEL
LEFT 6M LEVEL
EXIST. LEVEL
AT PRO. CL
RIGHT 6M LEVEL
VER. TANGENT POINT

GRID LINE

BOX CULVERT

Level Datum = 525(M)

PROP. ROAD LEVELS (M)

EXIST LEVELS
AT PRO. CL (M)EXISTING ROAD
LEVEL (M)HORIZONTAL
SCHEMATIC (M)VERTICAL (G=%)
SCHEMATIC (L=m)WIDENING
SCHEMATIC (M)SUPERELEVATION
SCHEMATIC (e in %)

CHAINAGE (M)

Rev. Date Description

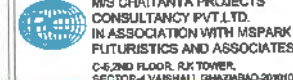
CLIENT:



EPC CONTRACTOR:



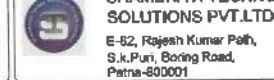
AUTHORITY ENGINEER:



SAFETY CONSULTANT:



PROOF CONSULTANT:



DESIGN CONSULTANT:



PROJECT:

Widening to 2 (Two) Lane with Hard shoulder of Churachandpur to Tuwai section of NH 102B from Km 118.850 to Km 130.000 (Package-1A) in the State of Manipur on Engineering, Procurement & Construction (EPC) mode.

DRAWN AMIT

DESIGNED MURARI

CHECKED VIPUL

DATE: OCT - 2020

TITLE: Plan & Longitudinal Profile

(From Km 120+500 to Km 121+000)

SCALE: HORIZ. 1:1000 VERT. 1:100

DRG. NO: GPT/CCT/4A/HW/PP/05a

REV:

R0

CHURACHANDPUR

APPROVED



Shambhavi Techno Solutions Pvt. Ltd.

Managing Director



CHURACHANDPUR

LEGEND :

EXISTING PLAN :

EXIST. ROAD

K-I/R : KACHA RESIDENTIAL
K-C : KACHA COMMERCIAL
BP-I/R : SEMI PUCCA RESI.
BP-C : SEMI PUCCA COMM.
P-I/R : PUCCA RESIDENTIAL
P-C : PUCCA COMMERCIAL

1000 CONTOUR

PROPOSED PLAN :

TOE LINE
ES EDGE
HS EDGE
Q/W EDGE
CEN. LINE
Q/W EDGE
HS EDGE
ES EDGE
TOE LINE

HDR. TANGENT POINT

PROW PROPOSED ROW

CULVERT

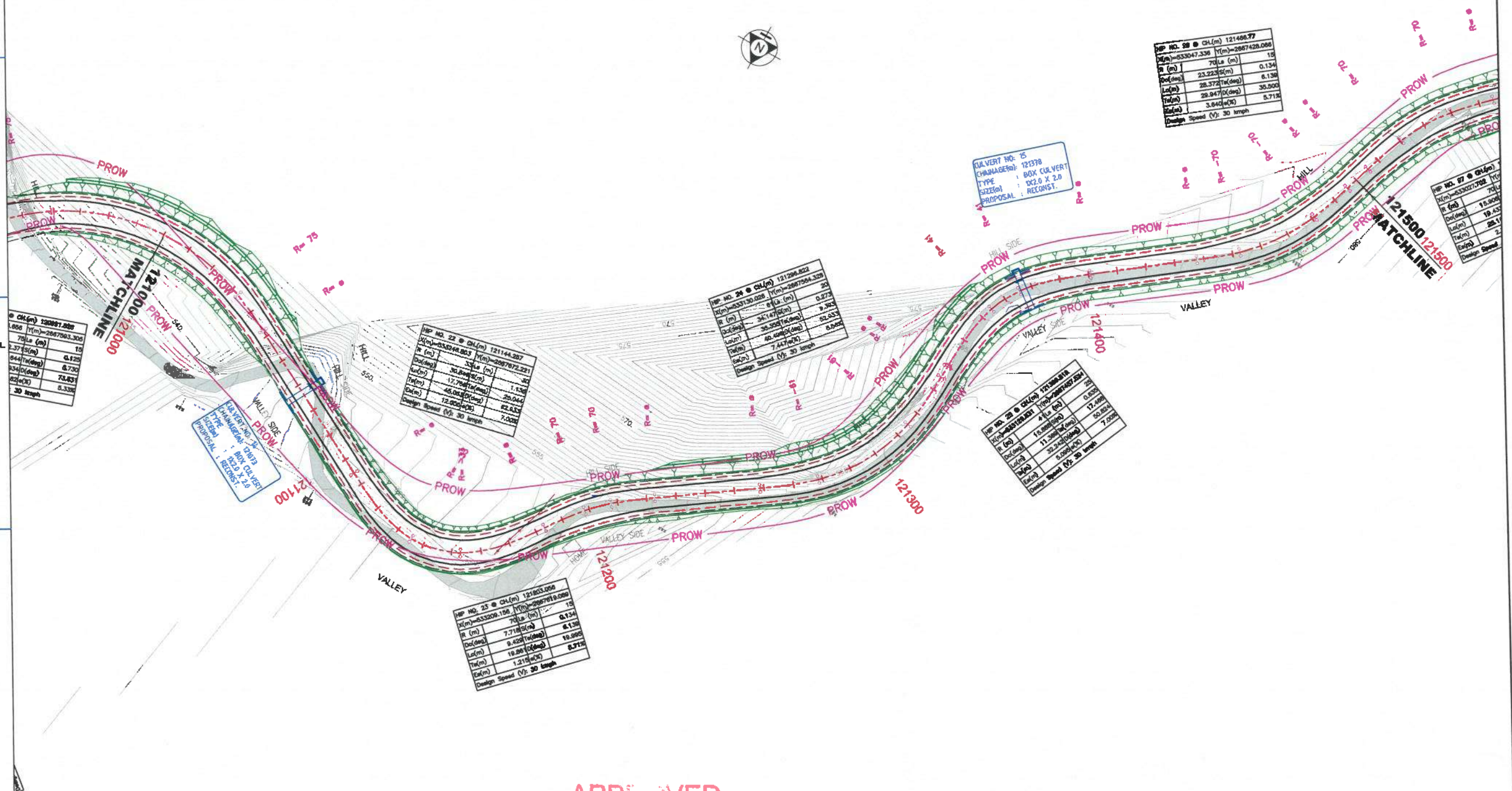
BRIDGE

PROPOSED PROFILE :

PROP. LEVEL
EXIS. ROAD LEVEL
LEFT 6M LEVEL
EXIST. LEVEL
AT PRO. CL
RIGHT 6M LEVEL
VER. TANGENT POINT

GRID LINE

BOX CULVERT



APPROVED



Shambhavi Techno Solutions Pvt. Ltd.

Managing Director



Rev.	Date	Description

CLIENT:



EPC CONTRACTOR:



JC - 25, Sector - 111, Salt Lake,
Kolkata - 700098.

AUTHORITY ENGINEER:

M/S CHAITANYA PROJECTS
CONSULTANCY PVT. LTD.
IN ASSOCIATION WITH MSPARK
FUTURESTICS AND ASSOCIATES
C-2ND FLOOR, RX TOWER,
SECTOR-4, VAISHALI, GHADABAD-201910

SAFETY CONSULTANT:



PP-97, Tankapuri Road,
BBSR-16, Odisha

DESIGN CONSULTANT:



E-82, Rajesh Kumar Path,
S.K. Puri, Boring Road,
Patna-800001

DESIGN CONSULTANT:



510 & 511, JMD Megapolis, Sector-46,
Gurgaon, Haryana - 122018.

PROJECT:

Widening to 2 (Two) Lane with Hard
shoulder of Churachandpur to Tuivai section
of NH 102B from Km 118.850 to Km 130.000
(Package-4A) in the State of Manipur on
Engineering, Procurement & Construction
(EPC) mode.

DRAWN:

AMIT

DESIGNED: MURARI

CHECKED: VIPUL

DATE: OCT - 2020

TITLE:

Plan & Longitudinal Profile

(From Km 121+000 to Km 121+500)

SCALE:

DRG. NO: GPT/CCT/4A/HW/PNP/05

REV:

R0

LEGEND :

EXISTING PLAN :

EXIST. ROAD
 K-1/R : KACHA RESIDENTIAL
 K-1/C : KACHA COMMERCIAL
 SP-1/R : SEMI PUCCA RESI.
 SP-1/C : SEMI PUCCA COMM.
 P-1/R : PUCCA RESIDENTIAL
 P-1/C : PUCCA COMMERCIAL
 1000 CONTOUR

PROPOSED PLAN :

TOE LINE
 ES EDGE
 HS EDGE
 C/W EDGE
 GEN. LINE
 C/W EDGE
 HS EDGE
 ES EDGE
 TOE LINE
 HOR. TANGENT POINT
 PROW
 PROPOSED ROW
 CULVERT
 BRIDGE

PROPOSED PROFILE :

PROP. LEVEL
 EXIS. ROAD LEVEL
 LEFT 5m LEVEL
 EXIST. LEVEL
 AT PRO. CL
 RIGHT 5m LEVEL
 VER. TANGENT POINT
 GRID LINE
 BOX CULVERT

Level Datum = 525(M)

PROP. ROAD LEVELS (M)

EXIST LEVELS AT PRO. CL (M)

EXISTING ROAD LEVEL (M)

HORIZONTAL SCHEMATIC (M)

VERTICAL (G=%) SCHEMATIC (L=m)

WIDENING LEFT SCHEMATIC (M) RIGHT

SUPERELEVATION LEFT SCHEMATIC (e in %) RIGHT

CHAINAGE (M)

Rev.	Date	Description

CLIENT:



EPC CONTRACTOR:



JC - 25, Sector - III, Salt Lake,
 Kolkata - 700098.

AUTHORITY ENGINEER:



MS CHAITANYA PROJECTS
 CONSULTANCY PVT. LTD.
 IN ASSOCIATION WITH MSPARK
 FUTURISTICS AND ASSOCIATES
 C-2nd FLOOR, RKTOWER,
 SECTOR-4, VARDHANA, CHAKRABARTY ROAD

SAFETY CONSULTANT:



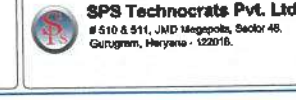
SUVADRA CONSULTANTS
 PP-97, Tankapuri Road,
 BBSR-18, Odisha

PROOF CONSULTANT:



SHAMBHAVI TECHNO
 SOLUTIONS PVT. LTD.
 E-62, Rajesh Kumar Path,
 S.K.Puri, Goring Road,
 Patna-800001

DESIGN CONSULTANT:



SPS Technocrats Pvt. Ltd.
 # 510 & 511, JMD Megapole, Sector 48,
 Gurgaon, Haryana - 122018.

PROJECT:

Widening to 2 (Two) Lane with Hard
 shoulder of Churachandpur to Tuva section
 of NH 102B from Km 118.850 to Km 130.000
 (Package-4A) in the State of Manipur on
 Engineering, Procurement & Construction
 (EPC) mode.

DRAWN AMIT

DESIGNED MURARI
 CHECKED VIPUL
 DATE: OCT - 2020

TITLE: Plan & Longitudinal Profile

(From Km 121+000 to Km 121+500)
 SCALE: HORIZ. 1:1000 VERT. 1:100
 DRG. NO: GPT/CCT/4A/HW/PPP/06a

REV:

R0

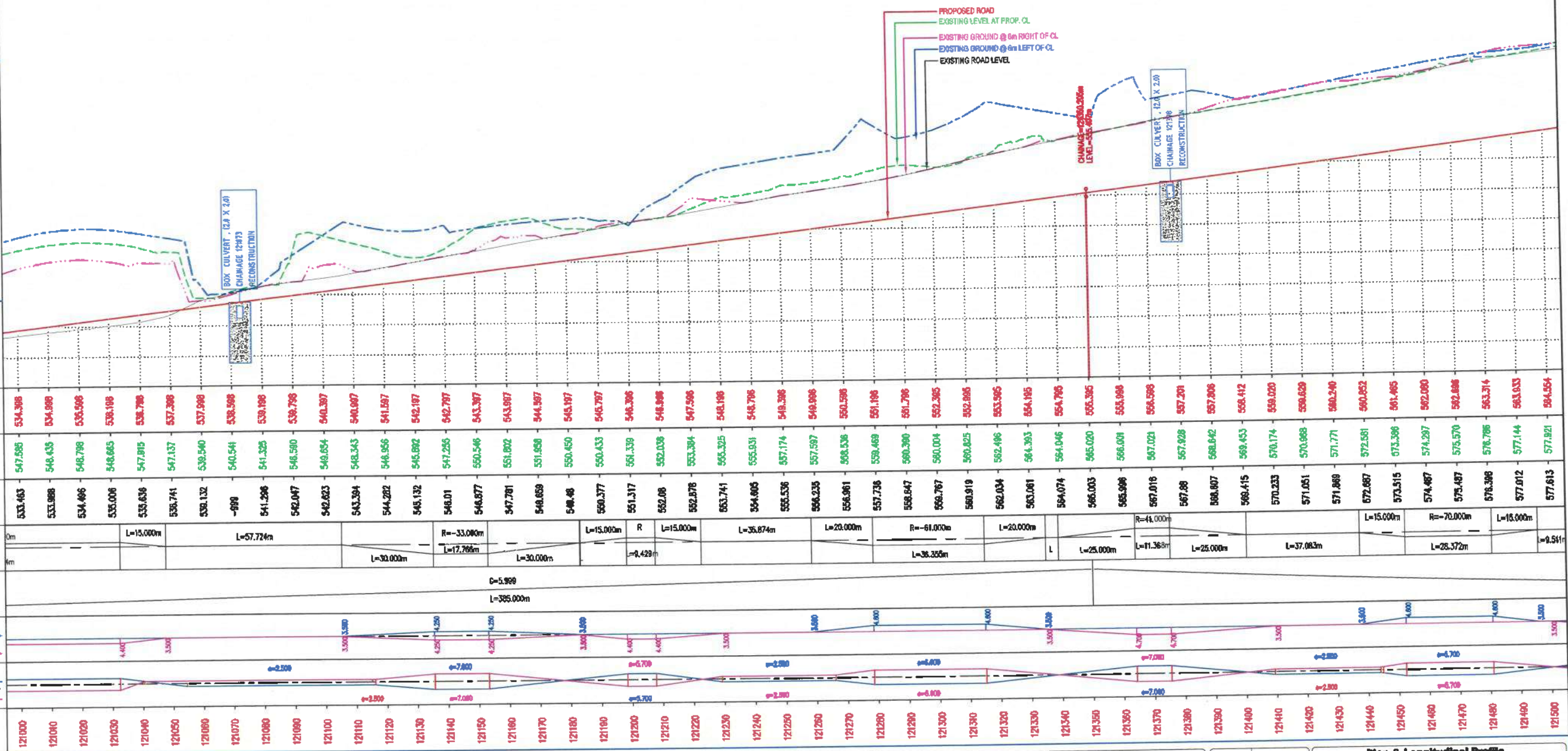
CHURACHANDPUR

APPROVED



Shambhavi Techno Solutions Pvt. Ltd.

Managing Director



CHURACHANDPUR

LEGEND :

EXISTING PLAN :

EXIST. ROAD
K-1/R : KACHA RESIDENTIAL
K-1/C : KACHA COMMERCIAL
SP-1/R : SEMI PUCCA RESI.
SP-1/C : SEMI PUCCA COMM.
P-1/R : PUCCA RESIDENTIAL
P-1/C : PUCCA COMMERCIAL

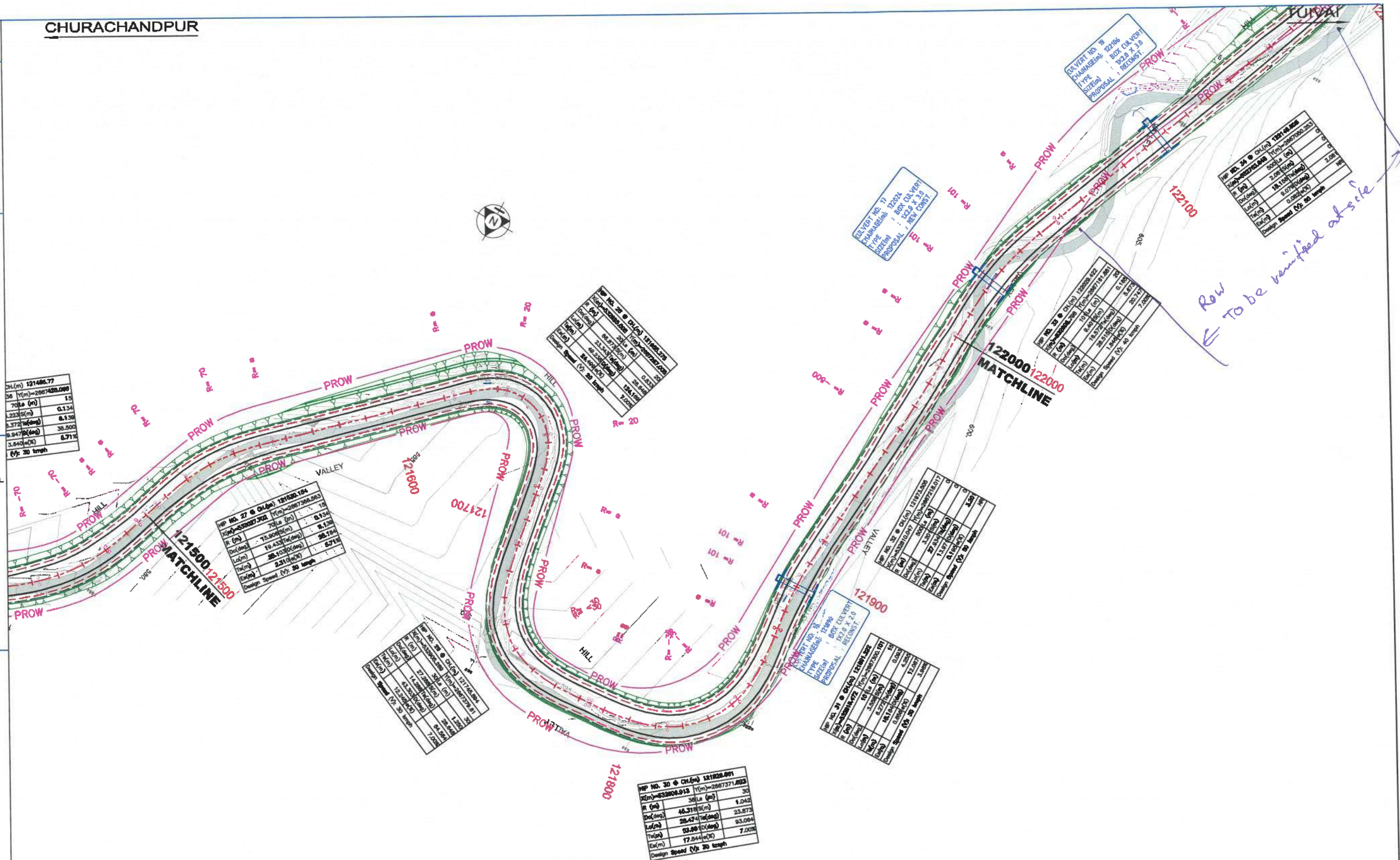
PROPOSED PLAN :

TOE LINE
ES EDGE
HS EDGE
G/W EDGE
GEN. LINE
Q/W EDGE
MS EDGE
ES EDGE
TOE LINE

HOR. TANGENT POINT
PROW
CULVERT
BRIDGE

PROPOSED PROFILE :

PROP. LEVEL
EXIS. ROAD LEVEL
LEFT 6M LEVEL
EXIST. LEVEL
AT PRO. CL
RIGHT 6M LEVEL
VER. TANGENT POINT
GRID LINE
BOX CULVERT



APPROVED



Shambhavi Techno Solutions Pvt. Ltd.
Managing Director



Rev.	Date	Description	CLIENT:	EPC CONTRACTOR:	AUTHORITY ENGINEER:	SAFETY CONSULTANT:	PROOF CONSULTANT:	DESIGN CONSULTANT:	PROJECT:	DRAWN:	AMIT:	TITLE:	SCALE:	REV:
			M/S CHAITANYA PROJECTS CONSULTANCY PVT. LTD. IN ASSOCIATION WITH MSPARK FUTURISTICS AND ASSOCIATES	GPT	M/S CHAITANYA PROJECTS CONSULTANCY PVT. LTD. IN ASSOCIATION WITH MSPARK FUTURISTICS AND ASSOCIATES	SUVADRA CONSULTANTS	SHAMBHAVI TECHNO SOLUTIONS PVT. LTD.	SPS Technocrats Pvt. Ltd.	Widening to 2 (Two) Lane with Hard shoulder of Churachandpur to Tuval section of NH 102B from Km 118.850 to Km 130.000 (Package-4A) in the State of Manipur on Engineering, Procurement & Construction (EPC) mode.	MURARI	VIPUL	Plan & Longitudinal Profile (From Km 121+500 to Km 122+000)	1:100	NO
			JC - 25, Sector - III, Salt Lake, Kolkata - 700098.		PP-97, Tankapuri Road, BBSR-18, Odisha		E-82, Rajesh Kumar Path, S.K. Puri, Boring Road, Patna-800001	#510 & 511, JMD Megaplex, Sector 40, Gurugram, Haryana - 122018.		DATE: OCT - 2020		DRG. NO: GPT/CCT/AA/HW/PNP/07		

LEGEND :

EXISTING PLAN :

EXIST. ROAD

K-1/R : KACHA RESIDENTIAL
K-1/C : KACHA COMMERCIAL
SP-1/R : SEMI PUGGA RESI.
SP-1/C : SEMI PUGGA COMM.
P-1/R : PUGGA RESIDENTIAL
P-1/C : PUGGA COMMERCIAL

1000 CONTOUR

PROPOSED PLAN :

TOE LINE
ES EDGE
HS EDGE
G/W EDGE
DEN. LINE
D/W EDGE
HS EDGE
ES EDGE
TOE LINE

HOR. TANGENT POINT

PROW PROPOSED ROW

GULVERT

BRIDGE

PROPOSED PROFILE :

PROP. LEVEL
EXIS. ROAD LEVEL
LEFT 6M LEVEL
EXIST. LEVEL
AT PRO. CL
RIGHT 6M LEVEL
VER. TANGENT POINT

GRID LINE

BOX CULVERT

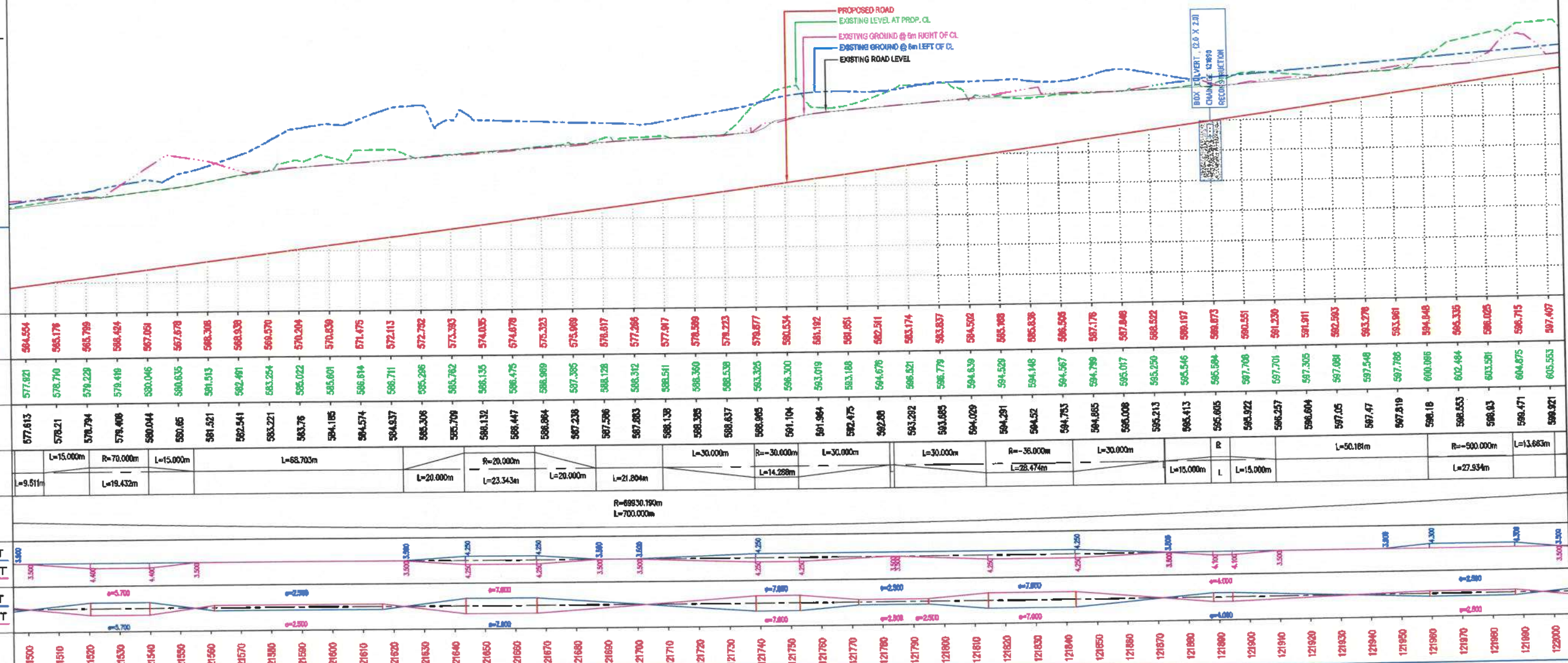
CHURACHANDPUR

APPROVED

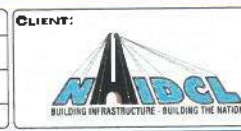


Shambhavi Techno Solutions Pvt. Ltd.

Managing Director



Rev.	Date	Description



EPC CONTRACTOR:

GPT

JC - 25, Sector - III, Salt Lake, Kolkata - 700096.

AUTHORITY ENGINEER:

M/S CHAITANYA PROJECTS CONSULTANCY PVT. LTD. IN ASSOCIATION WITH MSPARK FUTURISTICS & ASSOCIATES

C-5, 2nd FLOOR, R.K. TOWER, SECTOR-4, VASRAH, GUWAHATI-781001.

SAFETY CONSULTANT:

SUVADRA

PP-07, Tankapuri Road, BBER-18, Odisha

PROOF CONSULTANT:

SHAMBHAVI TECHNO SOLUTIONS PVT. LTD.

E-52, Rajesh Kumar Path, S.K. Puri, Boring Road, Patna-800001

DESIGN CONSULTANT:

SPS Technocrats Pvt. Ltd.

#510 & 511, JMD Megapolis, Sector 40, Gurugram, Haryana - 122016.

PROJECT:

Widening to 2 (Two) Lane with Hard shoulder of Churachandpur to Tuivai section of NH 102B from Km 118.850 to Km 130.000 (Package-4A) in the State of Manipur on Engineering, Procurement & Construction (EPC) mode.

DRAWN: AMIT
DESIGNED: MURARI
CHECKED: VIPUL
DATE: OCT - 2020

TITLE: **Plan & Longitudinal Profile**
(From Km 121+500 to Km 122+000)

SCALE: HORIZ. 1:1000 VERT. 1:100

DRG. NO: **GPT/CCT/4A/HW/PNP/07a**

REV: R0

CHURACHANDPUR

LEGEND :

EXISTING PLAN :

EXIST. ROAD

K-1/R : KACHA RESIDENTIAL
K-1/C : KACHA COMMERCIAL
SP-1/R : SEMI PUCCA RESI.
SP-1/C : SEMI PUCCA COMM.
P-1/R : PUCCA RESIDENTIAL
P-1/C : PUCCA COMMERCIAL

1000 CONTOUR

PROPOSED PLAN :

TOE LINE
ES EDGE
HS EDGE
G/W EDGE
CEN. LINE
C/W EDGE
HS EDGE
ES EDGE
TOE LINE

HOR. TANGENT POINT

PROW PROPOSED ROW

CULVERT

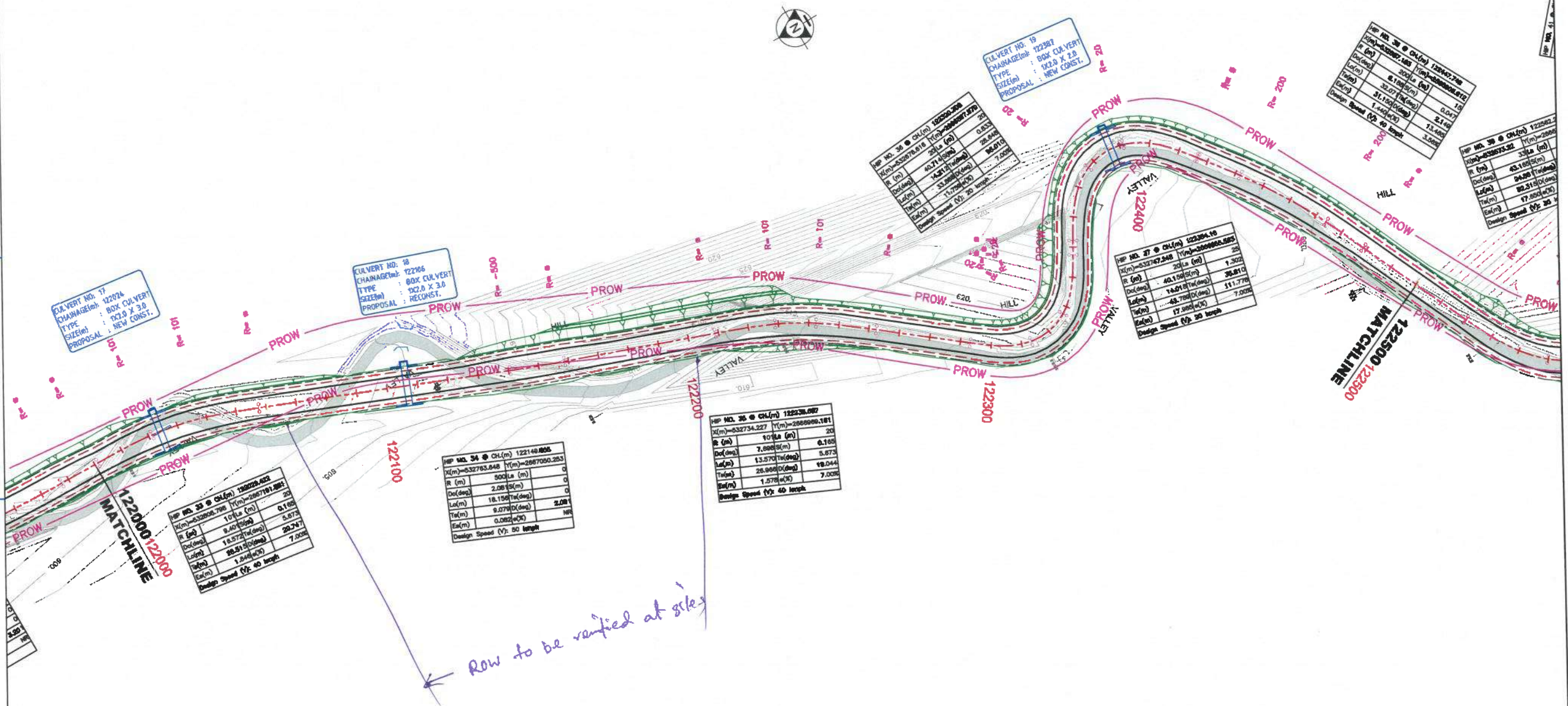
BRIDGE

PROPOSED PROFILE :

PROP. LEVEL
EXIS. ROAD LEVEL
LEFT 6M LEVEL
EXIST. LEVEL
AT PRO. CL
RIGHT 6M LEVEL
VER. TANGENT POINT

GRID LINE

BOX CULVERT



APPROVED



Shambhavi Techno Solutions Pvt. Ltd.
Managing Director



Rev.	Date	Description



CLIENT:

GPT
JC - 25, Sector - III, Salt Lake,
Kolkata - 700096.

AUTHORITY ENGINEER:

M/S CHAITANYA PROJECTS
CONSULTANCY PVT. LTD.
IN ASSOCIATION WITH MSPARK
FUTURISTICS AND ASSOCIATES
C-32ND FLOOR, RX TOWER,
SECTOR-4, VAISHALI, CHANDPUR-761014

SAFETY CONSULTANT:

SUYADRA
CONSULTANTS
In association with
FUTURISTICS & ASSOCIATES
PP-67, Tankapuri Road,
BBSR-18, Odisha

PROOF CONSULTANT:

SHAMBHAVI TECHNO
SOLUTIONS PVT. LTD.
E-82, Rajesh Kumar Path,
S.K. Puri, Boring Road,
Patna-800001

DESIGN CONSULTANT:

SPS Technocrats Pvt. Ltd.
510 & 511, JMD Megapole, Sector 48,
Gurgaon, Haryana - 122018

PROJECT:

Widening to 2 (Two) Lane with Hard
shoulder of Churachandpur to Tuwai section
of NH 102B from Km 118.860 to Km 130.000
(Package-4A) in the State of Manipur on
Engineering, Procurement & Construction
(EPC) mode.

DRAWN: AMIT
DESIGNED: MURARI
CHECKED: VIPUL
DATE: OCT - 2020

TITLE: **Plan & Longitudinal Profile**
(From Km 122+000 to Km 122+500)

SCALE: HOR. 1:10000, VERT. 1:1000

DRG. NO: **GPT/CCT/4A/MW/PNP/08**

REV: **RO**

CHURACHANDPUR

LEGEND :

EXISTING PLAN :

- EXIST. ROAD
- K-I/R : KACHA RESIDENTIAL
K-I/C : KACHA COMMERCIAL
SP-I/R : SEMI PUDGA RESI.
SP-I/C : SEMI PUDGA COMM.
P-I/R : PUDGA RESIDENTIAL
P-I/C : PUDGA COMMERCIAL
- 1000 CONTOUR

PROPOSED PLAN :

- TOE LINE
ES EDGE
HS EDGE
G/W EDGE
CEN. LINE
G/W EDGE
HS EDGE
ES EDGE
TOE LINE
- HOR. TANGENT POINT
- PROW PROPOSED ROW
- CULVERT
- BRIDGE

PROPOSED PROFILE :

- PROP. LEVEL
EXIS. ROAD LEVEL
LEFT 6M LEVEL
EXIST. LEVEL
AT PRO. CL
RIGHT 6M LEVEL
VER. TANGENT POINT
- GRID LINE
- BOX CULVERT

Level Datum = 585(M)

PROP. ROAD LEVELS (M)

EXIST LEVELS
AT PRO. CL (M)EXISTING ROAD
LEVEL (M)HORIZONTAL
SCHEMATIC (M)VERTICAL (G=%)
SCHEMATIC (L=m)WIDENING
SCHEMATIC (M)SUPERELEVATION
SCHEMATIC (e in %)

CHAINAGE (M)

Rev. Date Description

CLIENT:



EPC CONTRACTOR:



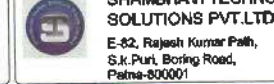
AUTHORITY ENGINEER:



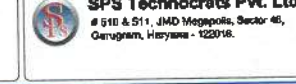
SAFETY CONSULTANT:



PROOF CONSULTANT:



DESIGN CONSULTANT:



PROJECT:

Widening to 2 (Two) Lane with Hard shoulder of Churachandpur to Tuivai section of NH 102B from Km 118.850 to Km 130.000 (Package-4A) in the State of Meghalaya on Engineering, Procurement & Construction (EPC) mode.

DRAWN AMIT

DESIGNED MURARI

CHECKED VIPUL

DATE: OCT - 2020

TITLE: Plan & Longitudinal Profile

(From Km 122+000 to Km 122+500)

SCALE: (HORIZONTAL: 1:1000, VERTICAL: 1:100)

DRG. NO: GPT/CCT/4A/HW/PP/08a

REV:

R0

APPROVED



Shambhavi Techno Solutions Pvt. Ltd.
Managing Director



LEGEND :

EXISTING PLAN :

EXIST. ROAD
K-1/R : KACHA RESIDENTIAL
K-1/C : KACHA COMMERCIAL
SP-1/R : SEMI PUCCA RESI.
SP-1/C : SEMI PUCCA COMM.
P-1/R : PUCCA RESIDENTIAL
P-1/C : PUCCA COMMERCIAL
1000 CONTOUR

PROPOSED PLAN :

TOE LINE
ES EDGE
HS EDGE
D/W EDGE
DEN. LINE
C/W EDGE
HS EDGE
ES EDGE
TOE LINE

HQR. TANGENT POINT

PROW PROPOSED ROW

CULVERT

BRIDGE

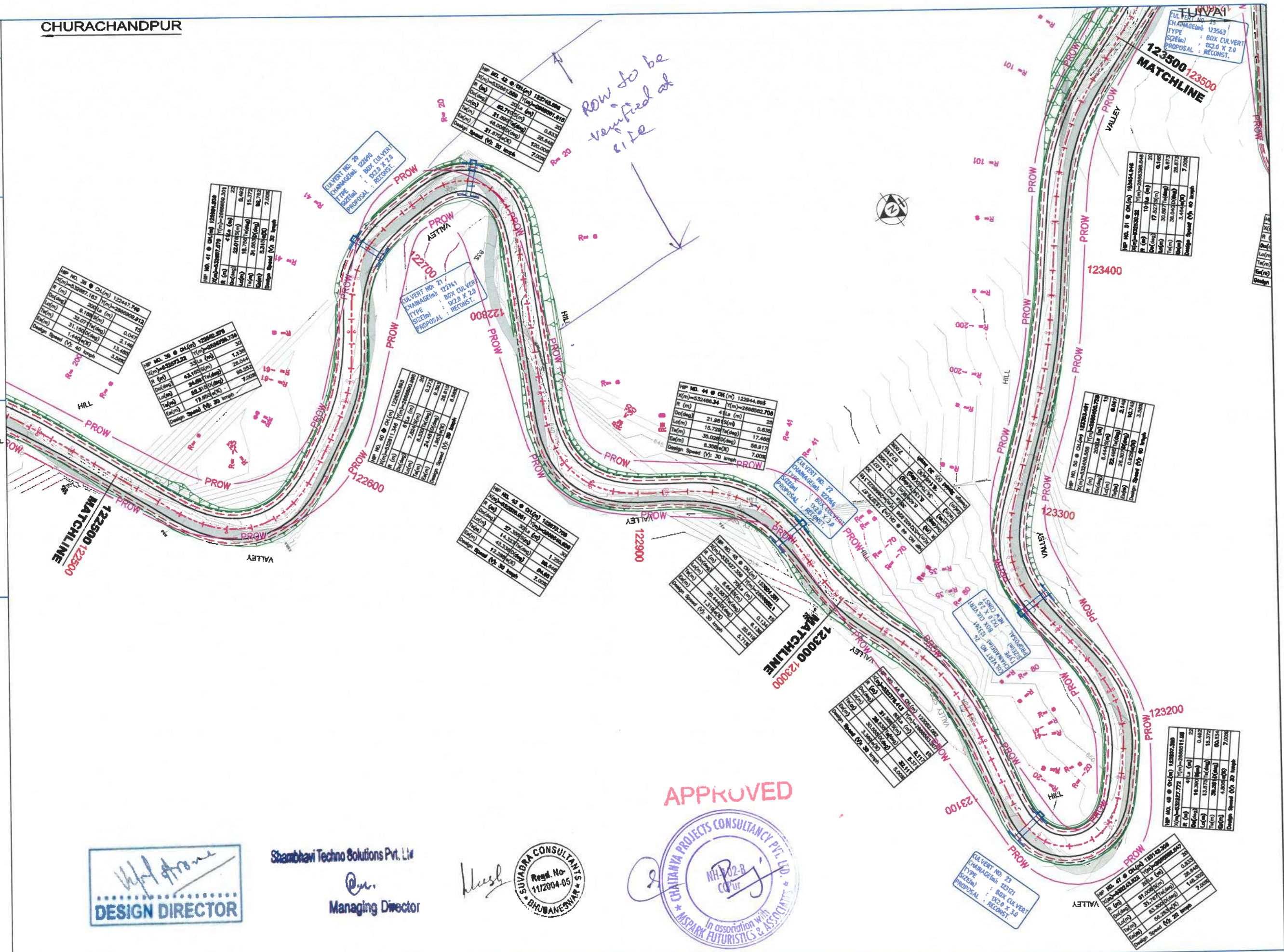
PROPOSED PROFILE :

PROP. LEVEL
EXIS. ROAD LEVEL
LEFT 5M LEVEL
EXIST. LEVEL
AT PRO. GL
RIGHT 5M LEVEL
VER. TANGENT POINT

GRID LINE

BOX CULVERT

CHURACHANDPUR



APPROVED

DESIGN DIRECTOR

Shambhavi Techno Solutions Pvt. Ltd.
Managing Director

SUVADRA CONSULTANTS
Regd. No. 11/2004-05
BHUBANESHWAR

CHAITANYA PROJECTS CONSULTANCY PVT. LTD.
NH 102-B
CCTUR
In association with
MSPARK FUTURISTICS & ASSOCIATES

Rev.	Date	Description

CLIENT:
MIDCL
BUILDING INFRASTRUCTURE. BUILDING THE NATION

EPC CONTRACTOR:
GPT
JC - 25, Sector - III, Salt Lake, Kolkata - 700098.

AUTHORITY ENGINEER:
M/S CHAITANYA PROJECTS CONSULTANCY PVT. LTD.
IN ASSOCIATION WITH MSPARK FUTURISTICS & ASSOCIATES
C-42ND FLOOR, RK TOWER, SECTOR 4, VASIHALLI, GHAZIABAD-201013.

SAFETY CONSULTANT:
SUVADRA CONSULTANTS
PP-97, Tankapuri Road, 685R-16, Odisha

PROOF CONSULTANT:
SHAMBHAVI TECHNO SOLUTIONS PVT. LTD.
E-82, Rajesh Kumar Path, S.K. Puri, Boring Road, Patna-800001

DESIGN CONSULTANT:
SPS Technocrats Pvt. Ltd.
510 & 511, JMD Megapole, Sector 46, Gurugram, Haryana - 122016

PROJECT:
Widening to 2 (Two) Lane with Hard shoulder of Churachandpur to Tulai section of NH 102B from Km 118.850 to Km 130.000 (Package-4A) in the State of Manipur on Engineering, Procurement & Construction (EPC) mode.

DRAWN: AMIT
DESIGNED: MURARI
CHECKED: VIPUL
DATE: OCT - 2020

TITLE: Plan & Longitudinal Profile
(From Km 122+500 to Km 123+500)
SCALE: 1:1000 (PLAN) 1:100 (PROFILE)
DRG. NO: OPT/CCT/4A/HW/PNP/09

REV: R0

CHURACHANDPUR

LEGEND :

EXISTING PLAN :

- EXIST. ROAD
K-1/R : KACHA RESIDENTIAL
K-1/C : KACHA COMMERCIAL
SP-1/R : SEMI PUCCA RESI.
SP-1/C : SEMI PUCCA COMM.
P-1/R : PUCCA RESIDENTIAL
P-1/C : PUCCA COMMERCIAL
1000 CONTOUR

PROPOSED PLAN :

- TDE LINE
ES EDGE
HS EDGE
D/W EDGE
DEN. LINE
C/W EDGE
HS EDGE
ES EDGE
TDE LINE
HOR. TANGENT POINT
PROW
CULVERT
BRIDGE

PROPOSED PROFILE :

- PROP. LEVEL
EXIS. ROAD LEVEL
LEFT 6M LEVEL
EXIST. LEVEL
AT PRO. CL
RIGHT 6M LEVEL
VER. TANGENT POINT
GRID LINE
BOX CULVERT

APPROVED



Shambhavi Techno Solutions Pvt. Ltd.

Managing Director



Level Datum = 610(M) ▼

PROP. ROAD LEVELS (M)

EXIST LEVELS
AT PROP. CL (M)

EXISTING ROAD
LEVEL (M)

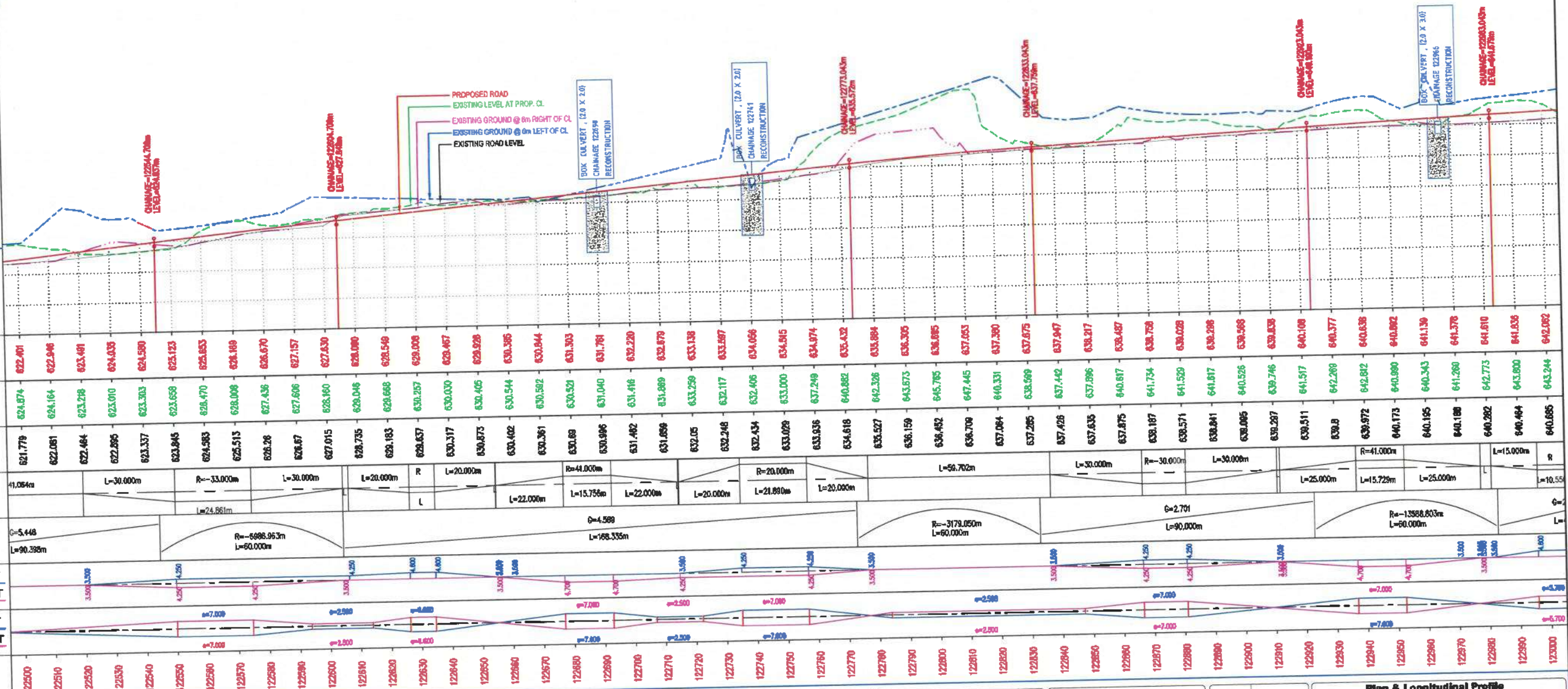
HORIZONTAL
SCHEMATIC (M)

VERTICAL (G=%)
SCHEMATIC (L=m)

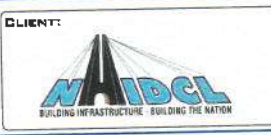
WIDENING
SCHEMATIC (M)

SUPERELEVATION
SCHEMATIC (e in %)

CHAINAGE (M)



Rev.	Date	Description



CLIENT:
NAIACL
BUILDING INFRASTRUCTURE - BUILDING THE NATION

EPC CONTRACTOR:
GPT
JC - 25, Sector - III, Salt Lake, Kolkata - 700098.

AUTHORITY ENGINEER:
M/S CHAITANYA PROJECTS CONSULTANCY PVT. LTD.
IN ASSOCIATION WITH MSPARK FUTURISTICS AND ASSOCIATES
C-2ND FLOOR, RK TOWER, SECTOR-4, VISHALI, GHANABAD-201010

SAFETY CONSULTANT:
SUVADRA
CONSULTANTS
PP-97, Tankapuri Road, 885R-18, Odisha

DESIGN CONSULTANT:
SHAMBHAVI TECHNO SOLUTIONS PVT. LTD.
B-82, Rajesh Kumar Path, S.K.Puri, Boring Road, Patna-800001

DESIGN CONSULTANT:
SPS Technocrats Pvt. Ltd.
510 & 511, JMD Megapole, Sector 48, Gurgaon, Haryana - 122018

PROJECT:
Widening to 2 (Two) Lane with Hard shoulder of Churachandpur to Tuwai section of NH 102B from Km 118.850 to Km 123.000 (Package-4A) in the State of Manipal on Engineering, Procurement & Construction (EPC) mode.

DRAWN: AMIT
DESIGNED: MURARI
CHECKED: VIPUL
DATE: OCT - 2020

REV: R0

CHURACHANDPUR

LEGEND :

EXISTING PLAN :

EXIST. ROAD
 K-1/R : KACHA RESIDENTIAL
 K-1/C : KACHA COMMERCIAL
 SP-1/R : SEMI PUDCA RESI.
 SP-1/C : SEMI PUDCA COMM.
 P-1/R : PUDCA RESIDENTIAL
 P-1/C : PUDCA COMMERCIAL

1000 CONTOUR

PROPOSED PLAN :

TOE LINE
 ES EDGE
 HS EDGE
 D/W EDGE
 GEN. LINE
 C/W EDGE
 HS EDGE
 ES EDGE
 TOE LINE

HOR. TANGENT POINT

PROW PROPOSED ROW

CULVERT

BRIDGE

PROPOSED PROFILE :

PROP. LEVEL
 EXIS. ROAD LEVEL
 LEFT 6M LEVEL
 EXIST. LEVEL
 AT PRO. CL
 RIGHT 6M LEVEL
 VER. TANGENT POINT

GRID LINE

BOX CULVERT

Level Datum = 620(M)

PROP. ROAD LEVELS (M)

EXIST LEVELS
 AT PROP. CL (M)

EXISTING ROAD
 LEVEL (M)

HORIZONTAL
 SCHEMATIC (M)

VERTICAL (G-%)
 SCHEMATIC (L=m)

WIDENING
 SCHEMATIC (M)

SUPERELEVATION
 SCHEMATIC (e in %)

CHAINAGE (M)

Rev.	Date	Description

CLIENT:



EPC CONTRACTOR:



JC - 25, Sector - III, Salt Lake,
 Kolkata - 700098.

AUTHORITY ENGINEER:



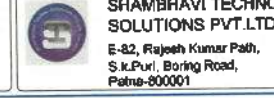
M/S CHAITANYA PROJECTS
 CONSULTANCY PVT. LTD.
 IN ASSOCIATION WITH MSPARK
 FUTURISTICS AND ASSOCIATES
 C-80 FLOOR, R.K. TOWER,
 SECTOR-4, VAISHALI, GHAZIABAD-201016.

SAFETY CONSULTANT:



PP-57, Tankapuri Road,
 BBSR-18, Odisha

PROOF CONSULTANT:



E-82, Rajesh Kumar Path,
 S.K.Puri, Boring Road,
 Patna-800001

DESIGN CONSULTANT:



518 & 511, 3rd Milepost, Sector 42,
 Gurugram, Haryana - 122016

PROJECT:

Widening to 2 (Two) Lane with Hard
 shoulder of Churachandpur to Tuvai section
 of NH 102B from Km 118.650 to Km 130.900
 (Package-4A) in the State of Manipal on
 Engineering, Procurement & Construction
 (EPC) mode.

DRAWN

AMIT
 DESIGNED MURARI
 CHECKED VIPUL
 DATE: OCT - 2020

TITLE:

Plan & Longitudinal Profile
 (From 2km 123+000 to 2km 123+500)
 SCALE: (HORIZ. 1:10000, VERT. 1:1000)
 VER. 1:1000
 DRG. NO: GPT/CCT/4A/HW/PNP/096

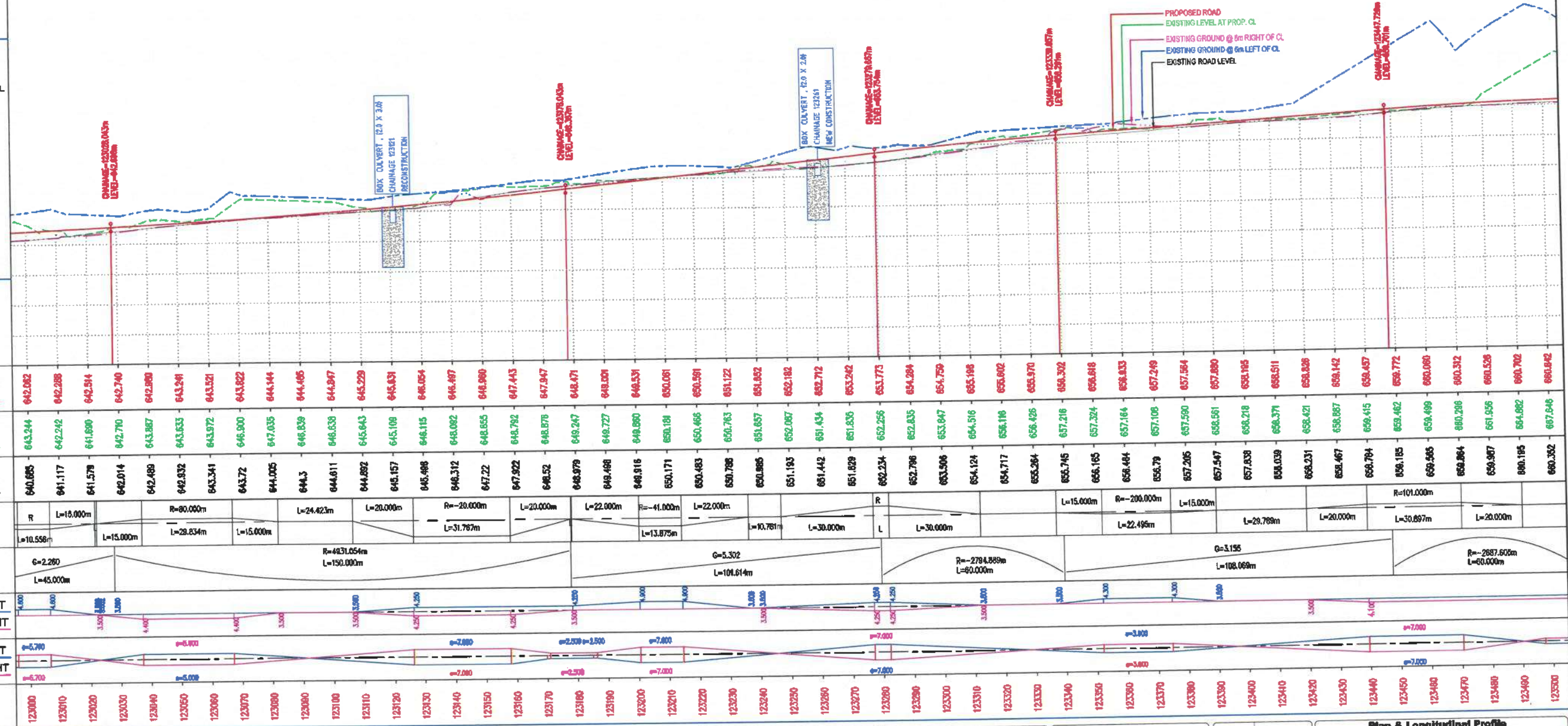
REV:

RO

APPROVED



Shambhavi Techno Solutions Pvt. Ltd.
 Managing Director



CHURACHANDPUR

LEGEND :

EXISTING PLAN :

- EXIST. ROAD
- K-I/R : KACHA RESIDENTIAL
K-I/C : KACHA COMMERCIAL
SP-I/R : SEMI PUCCA RESL.
SP-I/C : SEMI PUCCA COMM.
P-I/R : PUCCA RESIDENTIAL
P-I/C : PUCCA COMMERCIAL
- 1000 CONTOUR

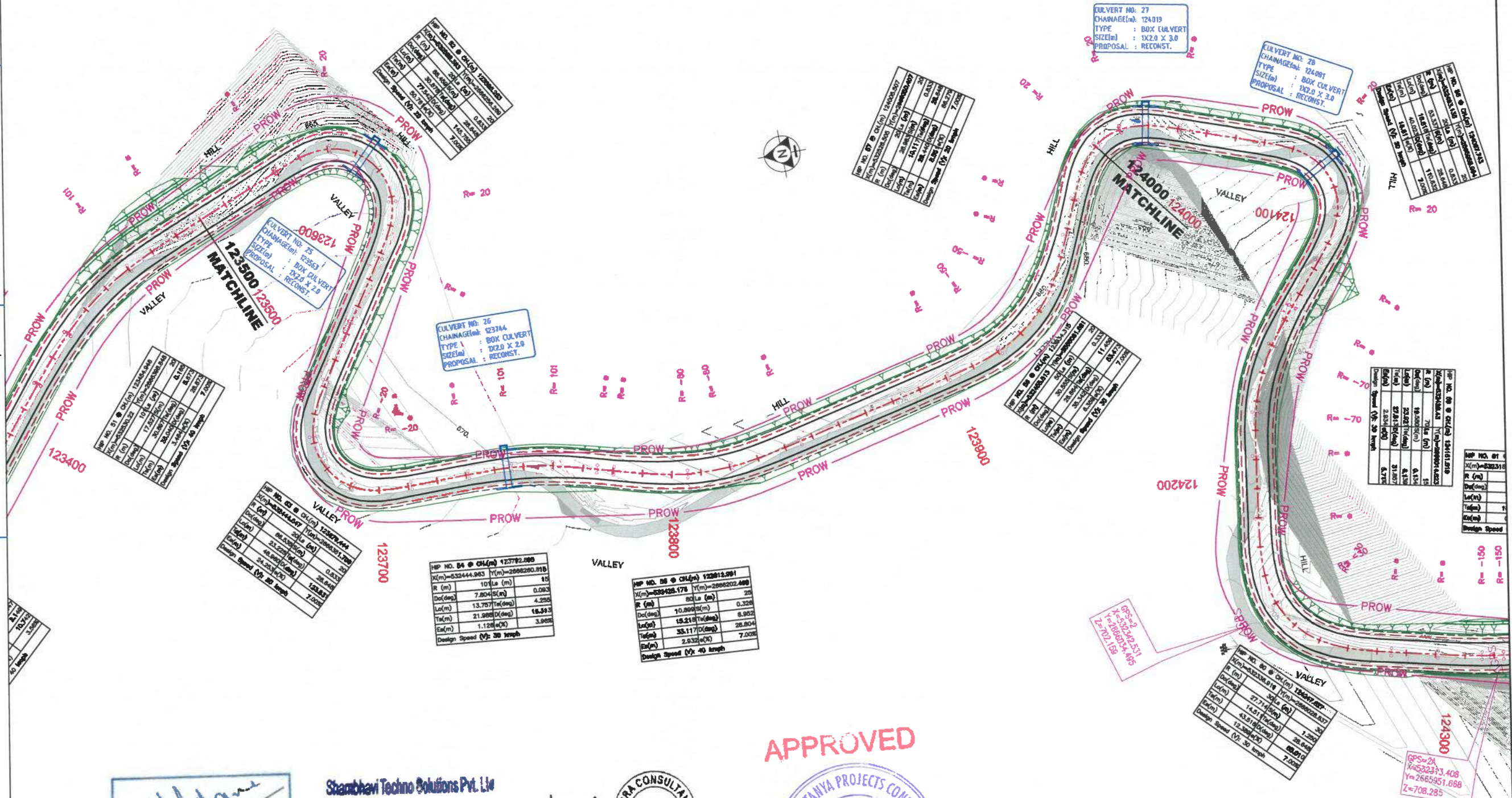
PROPOSED PLAN :

- TOE LINE
ES EDGE
HS EDGE
Q/W EDGE
QEN LINE
Q/W EDGE
HS EDGE
ES EDGE
TOE LINE

- HOR. TANGENT POINT
- PROW PROPOSED ROW
- DULVERT
- BRIDGE

PROPOSED PROFILE :

- PROP. LEVEL
EXIS. ROAD LEVEL
LEFT 6M LEVEL
EXIST. LEVEL
AT PRO. CL
RIGHT 6M LEVEL
VER. TANGENT POINT
- GRID LINE
- BOX CULVERT



APPROVED

DESIGN DIRECTOR

Shambhavi Techno Solutions Pvt. Ltd.
Managing Director

SUVADRA CONSULTANTS
Regd. No. 11/2004-05

SHAMBHAVI PROJECTS CONSULTANT PVT. LTD.
In association with
FUTURISTICS & ASSOCIATES

Rev.	Date	Description

CLIENT:
MIDCL
BUILDING INFRASTRUCTURE. BUILDING THE NATION

EPC CONTRACTOR:
GPT
JC - 25, Sector - III, Salt Lake,
Kolkata - 700066.

AUTHORITY ENGINEER:
M/S CHAITANYA PROJECTS
CONSULTANCY PVT. LTD.
IN ASSOCIATION WITH MSPARK
FUTURISTICS AND ASSOCIATES
C-5, 2ND FLOOR, R.K. TOWER,
SECTOR-4, VAISHALI, GHANASHYAM-201012.

SAFETY CONSULTANT:
SUVADRA
CONSULTANTS
PP-07, Tankapuri Road,
BBSR-16, Odisha

PROOF CONSULTANT:
SHAMBHAVI TECHNO
SOLUTIONS PVT. LTD.
E-82, Rajesh Kumar Path,
S.K. Puri, Boring Road,
Patna-800081

DESIGN CONSULTANT:
SPS Technocrats Pvt. Ltd.
510 & 511, JMD Megapole, Sector 48,
Gurgaon, Haryana - 122016.

PROJECT:
Widening to 2 (Two) Lane with Hard
shoulder of Churachandpur to Tuwai section
of NH 102B from Km 118.850 to Km 130.800
(Package-1A) in the State of Manipal on
Engineering, Procurement & Construction
(EPC) mode.

DRAWN: AMIT
DESIGNED: MURARI
CHECKED: VIPUL
DATE: OCT - 2020

TITLE: Plan & Longitudinal Profile
(From Km 123+500 to Km 124+000)
SCALE: 1:1000 (PLAN) 1:100 (LONGITUDINAL)
VER. 1:100
DRG. NO: GPT/CCT/4A/NW/PP/10

REV: R0

LEGEND :

EXISTING PLAN :

EXIST. ROAD
 K-1/R : KACHA RESIDENTIAL
 K-1/C : KACHA COMMERCIAL
 SP-1/R : SEMI PUGGA RESI.
 SP-1/C : SEMI PUGGA COMM.
 P-1/R : PUGGA RESIDENTIAL
 P-1/C : PUGGA COMMERCIAL
 1000 CONTOUR

PROPOSED PLAN :

TOE LINE
 ES EDGE
 HS EDGE
 D/W EDGE
 GEN. LINE
 C/W EDGE
 HS EDGE
 ES EDGE
 TOE LINE

HOR. TANGENT POINT

PROV. PROPOSED ROW

DULVERT

BRIDGE

PROPOSED PROFILE :

PROP. LEVEL
 EXIS. ROAD LEVEL
 LEFT 6M LEVEL
 EXIST. LEVEL
 AT PRO. CL
 RIGHT 6M LEVEL
 VER. TANGENT POINT

GRID LINE

BOX DULVERT

Level Datum = 645(M)

PROP. ROAD LEVELS (M)

EXIST LEVELS AT PROP. CL (M)

EXISTING ROAD LEVEL (M)

HORIZONTAL SCHEMATIC (M)

VERTICAL SCHEMATIC (G=%)

(L=m)

WIDENING SCHEMATIC (M)

LEFT

RIGHT

SUPERELEVATION SCHEMATIC (e in %)

LEFT

RIGHT

CHAINAGE (M)

Rev. Date Description

CHURACHANDPUR

CLIENT:



EPC CONTRACTOR:



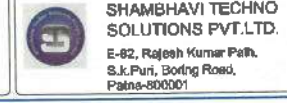
AUTHORITY ENGINEER:



SAFETY CONSULTANT:



PROFE CONSULTANT:



DESIGN CONSULTANT:



PROJECT:

Widening to 2 (Two) Lane with Hard shoulder of Churachandpur to Tuwai section of NH 102B from Km 116.850 to Km 130.000 (Package-4A) in the State of Manipal on Engineering, Procurement & Construction (EPC) mode.

DRAWN

AMIT

DESIGNED MURARI

CHECKED VIPUL

DATE: OCT - 2020

TITLE: Plan & Longitudinal Profile

(From Km 123+500 to Km 124+000)

SCALE: HOR: 1:1000 VER: 1:100

DRS. NO: GPT/CCT/4A/HW/PNP/10s

REV:

RO

APPROVED



Shambhavi Techno Solutions Pvt. Ltd

Managing Director



CHURACHANDPUR

LEGEND :

EXISTING PLAN:

EXIST. ROAD

K-1/R : KACHA RESIDENTIAL
K-1/C : KACHA COMMERCIAL
SP-1/R : SEMI PUCCA RESI.
SP-1/C : SEMI PUCCA COMM.
P-1/R : PUCCA RESIDENTIAL
P-1/C : PUCCA COMMERCIAL

1000 CONTOUR

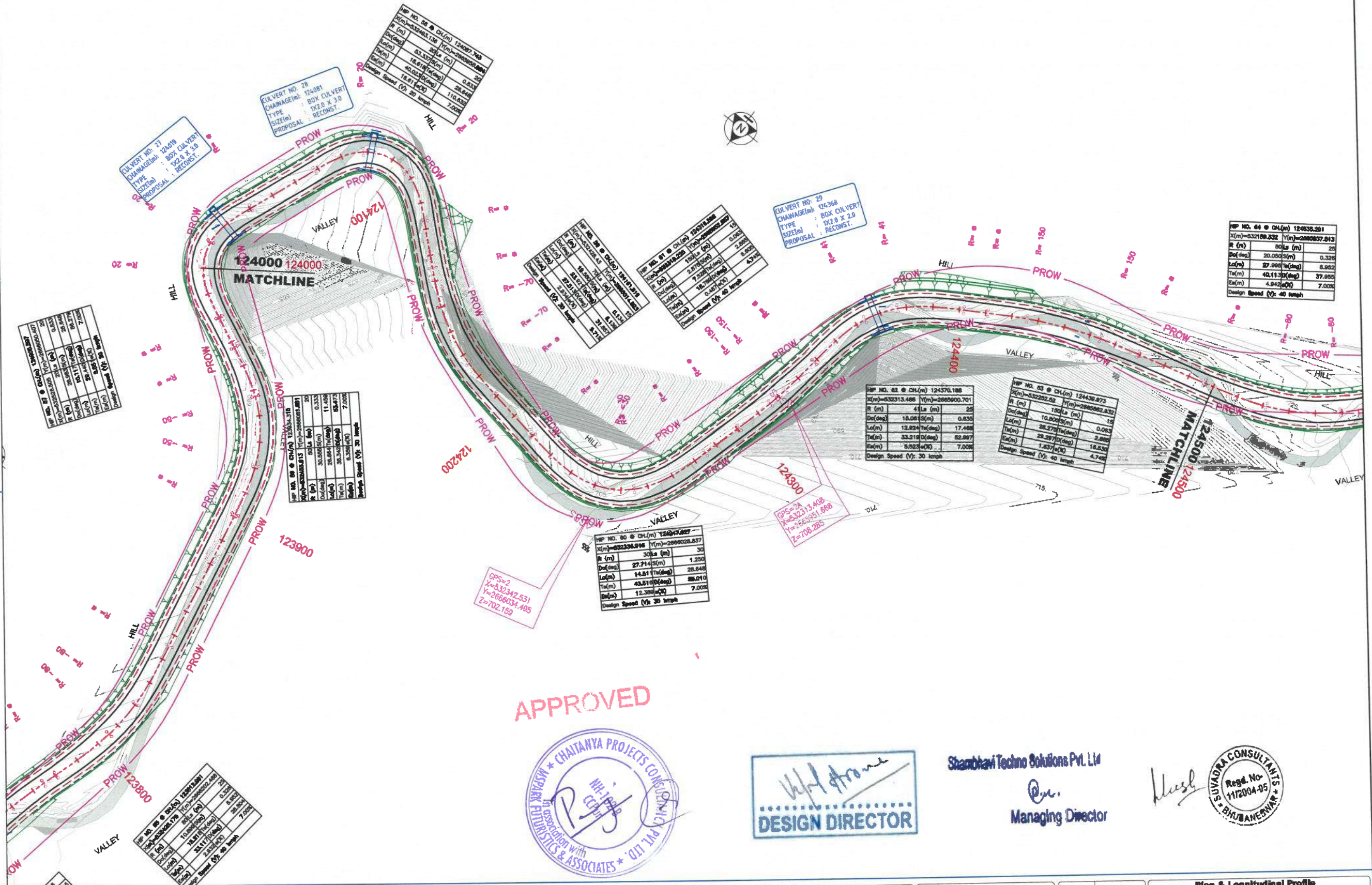
PROPOSED PLAN:

TOE LINE
ES EDGE
HS EDGE
D/W EDGE
DEN. LINE
C/W EDGE
HS EDGE
ES EDGE
TOE LINE

	HDR. TANGENT POINT
	PROW
	PROPOSED ROW
	CULVERT
	BRIDGE

PROPOSED PROFILE :

 **PROP. LEVEL**
 **EXIS. ROAD LEVEL**
 **LEFT 6M LEVEL**
 **EXIST. LEVEL**
 **AT PRO. DL**
 **RIGHT 6M LEVEL**
 **VER. TANGENT POINT**
 **GRID LINE**
 **BOX CULVERT**



APPROVED



V. J. Stone
DESIGN DIRECTOR

Shambhavi Techno Solutions Pvt. Ltd


Managing Director



Rev.	Date	Description

QUEST:



NIDCL
BUILDING INFRASTRUCTURE - BUILDING THE NATION

EPC CONTRACTOR:

GPT
group

JC - 25, Sector - III, Salt Lake,
Kolkata - 700098.

AUTHORITY ENGINEER:

 **M/S CHAITANYA PROJECTS
CONSULTANCY PVT.LTD.
IN ASSOCIATION WITH MSPARK
FUTURISTICS AND ASSOCIATES
C-52ND FLOOR, R K TOWER,
SECTOR-4, VAISHALI, GHAZIABAD-201010.**

SAFETY CONSULTANT:

 **SUVADRA**
CONSULTANTS
PVT. LTD.
New Building, Off Naraina, 2nd Floor, Naraina, New Delhi-110028

**PP-97, Tankapani Road,
BBSR-18, Odisha**

PROOF CONSULTANT:

 **SHAMBHAVI TECHNO
SOLUTIONS PVT.LTD.**
E-82, Rajesh Kumar Path,
S.K.Puri, Boring Road,
Patna-800001

SPS Technocrats Pvt. Ltd.
510 & 511, JMD Megapolis, Sector 48,
Gurgaon, Haryana - 122016.

Widening to 2 (Two) Lane with Hard shoulder of Churachandpur to Tuivai section of NH 102B from Km 118.650 to Km 130.000 (Package-4A) in the State of Manipur on Engineering, Procurement & Construction (EPC) mode.

DESIGNED	MURARI
CHECKED	VIPUL
DATE: OCT - 2020	

SCALE: (HORI: 1:1000; VERT: 5:100 w/ 20mm Grid)
HORI: 0 5 10 20
VERT: 0 5 10

ORG. NO: **GPT/CCT/4A/HW/PNP/11**

EV:
RO

LEGEND :

EXISTING PLAN :

EXIST. ROAD
 K-I/R : KACHA RESIDENTIAL
 K-I/C : KACHA COMMERCIAL
 SP-I/R : SEMI PUCCA RESI.
 SP-I/C : SEMI PUCCA COMM.
 P-I/R : PUCCA RESIDENTIAL
 P-I/C : PUCCA COMMERCIAL
 1000 CONTOUR

PROPOSED PLAN :

TOE LINE
 ES EDGE
 HS EDGE
 G/W EDGE
 GEN. LINE
 C/W EDGE
 HS EDGE
 ES EDGE
 TOE LINE
 HOR. TANGENT POINT
 PROW
 DULVERT
 BRIDGE

PROPOSED PROFILE :

PROP. LEVEL
 EXIS. ROAD LEVEL
 LEFT 6M LEVEL
 EXIST. LEVEL AT PRO. CL
 RIGHT 6M LEVEL
 VER. TANGENT POINT
 GRID LINE
 BOX CULVERT

CHURACHANDPUR

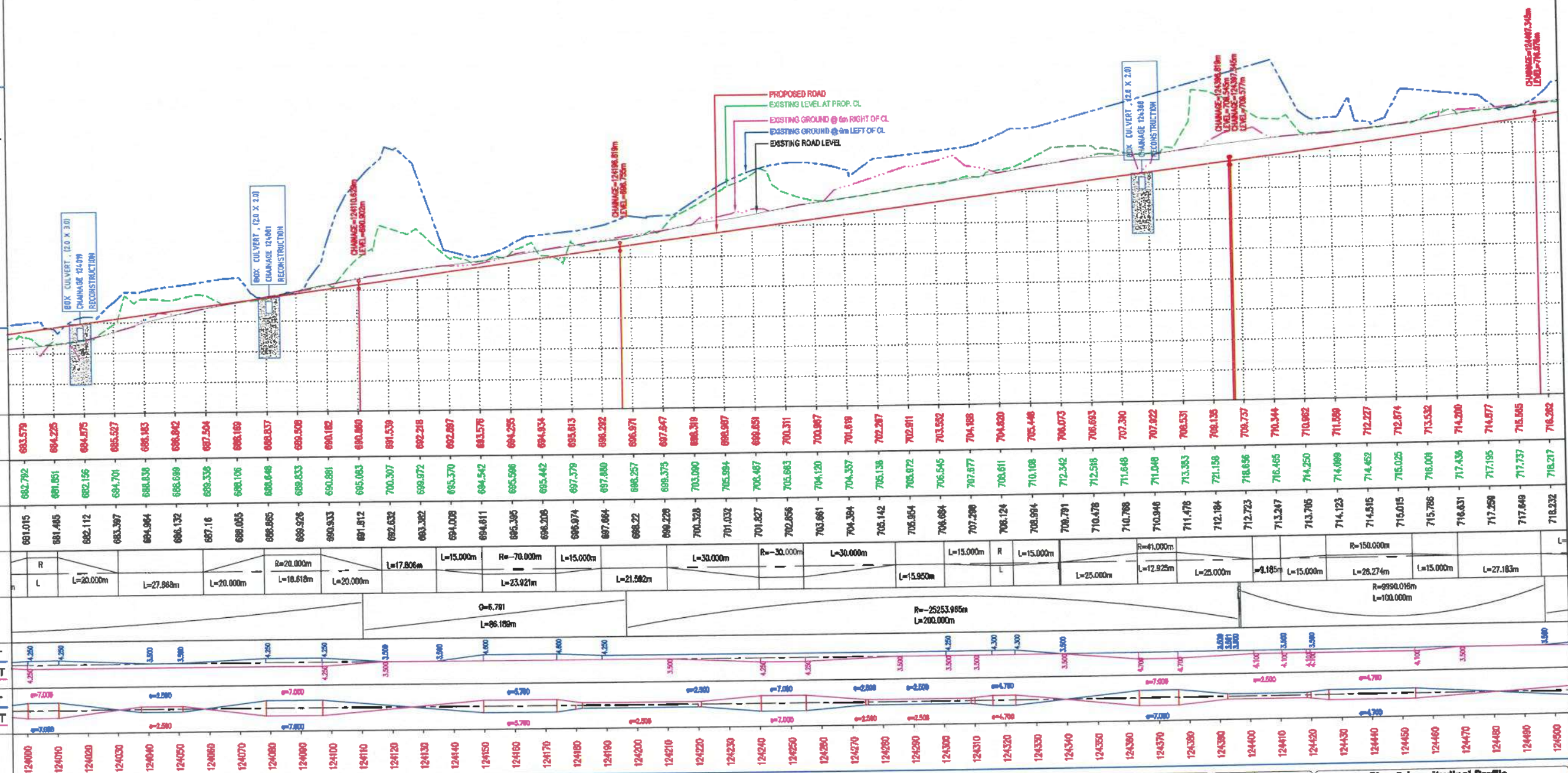
APPROVED



DESIGN DIRECTOR

Shambhavi Techno Solutions Pvt. Ltd.

Managing Director



Rev.	Date	Description

CLIENT:



EPC CONTRACTOR:



JC - 25, Sector - III, Salt Lake,
 Kolkata - 700096.

AUTHORITY ENGINEER:



M/S CHAITANYA PROJECTS
 CONSULTANCY PVT. LTD.
 IN ASSOCIATION WITH MSPARK
 FUTURISTICS AND ASSOCIATES
 C-2ND FLOOR, RK TOWER,
 SECTOR-4, VASIHALL, GHAZIMANU-201014

SAFETY CONSULTANT:



PP-97, Tankapuri Road,
 BBSR-18, Odisha

PROOF CONSULTANT:



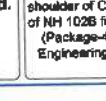
E-82, Rajesh Kumar Path,
 S.K. Puri, Boring Road,
 Patna-800001

DESIGN CONSULTANT:



510 & 511, JMD Megapole, Sector 48,
 Gurugram, Haryana - 122018

PROJECT:



Widening to 2 (Two) Lane with Hard
 shoulder of Churachandpur to Tuwai section
 of NH 102B from Km 118.850 to Km 120.000
 (Package-4A) in the State of Manipal on
 Engineering, Procurement & Construction
 (EPC) mode.

DRAWN: ANIT



DESIGNED: MURARI
 CHECKED: VIPLUL
 DATE: OCT - 2020

TITLE:



Plan & Longitudinal Profile
 (From Km 124+000 to Km 124+500)
 SCALE: HORIZ. 1:5000 VERT. 1:1000
 DRS. NO: GPT/GCT/4A/HW/PP/11a

REV:



RO

LEGEND :

EXISTING PLAN :

EXIST. ROAD
 K-I/R : KACHA RESIDENTIAL
 K-I/C : KACHA COMMERCIAL
 SP-I/R : SEMI PUCCA RESI.
 SP-I/C : SEMI PUCCA COMM.
 P-I/R : PUCCA RESIDENTIAL
 P-I/C : PUCCA COMMERCIAL
 1000 CONTOUR

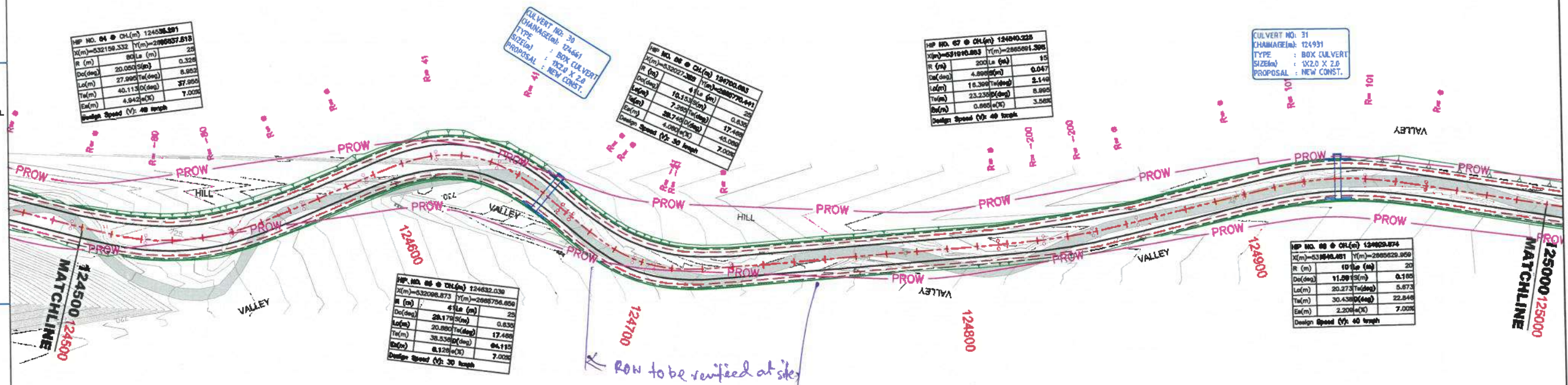
PROPOSED PLAN :

TOE LINE
 ES EDGE
 HS EDGE
 Q/W EDGE
 GEN. LINE
 Q/W EDGE
 HS EDGE
 ES EDGE
 TOE LINE
 HOR. TANGENT POINT
 PROW
 PROPOSED ROW
 DULVERT
 BRIDGE

PROPOSED PROFILE :

PROP. LEVEL
 EXIS. ROAD LEVEL
 LEFT 5M LEVEL
 EXIST. LEVEL AT PRO. CL
 RIGHT 5M LEVEL
 VER. TANGENT POINT
 GRID LINE
 BOX CULVERT

CHURACHANDPUR



APPROVED

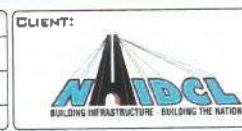


Shambhavi Techno Solutions Pvt. Ltd.

Managing Director



Rev.	Date	Description



EPC CONTRACTOR:
GPT GROUP
 JC - 25, Sector - III, Salt Lake,
 Kolkata - 700096.

AUTHORITY ENGINEER:
 M/S CHAITANYA PROJECTS
 CONSULTANCY PVT. LTD.
 IN ASSOCIATION WITH MSPARK
 FUTURISTICS AND ASSOCIATES
 C-2ND FLOOR, R.K. TOWER,
 SECTOR-4, VASAHALI, GHANSHYAM-201010.

SAFETY CONSULTANT:
SUVADRA CONSULTANTS
 P-67, Taniapuri Road,
 BBSR-18, Odisha

PROOF CONSULTANT:
**SHAMBHAVI TECHNO
 SOLUTIONS PVT. LTD.**
 E-82, Rajesh Kumar Path,
 S.K. Puri, Boring Road,
 Patna-800001

DESIGN CONSULTANT:
SPS Technocrats Pvt. Ltd.
 # 510 & 511, JMD Mega Plaza, Sector 45,
 Gurugram, Haryana - 120018

PROJECT:
 Widening to 2 (Two) Lane with Head
 shoulder of Churachandpur to Tuivai section
 of NH 102B from Km 118.850 to Km 130.000
 (Package-4A) in the State of Manipal on
 Engineering, Procurement & Construction
 (EPC) mode.

DRAWN : AMIT
 DESIGNED : MURARI
 CHECKED : VIPIUL
 DATE : OCT - 2020

TITLE: **Plan & Longitudinal Profile**
 (From X/m 124+500 to X/m 125+000)
 SCALE: (HOR - 1:1000 VERT - 1:100) A2 Size Sheet
 VER. 1:100
 DRG. NO: **GPT/CCT/4A/HW/PNP/12**

REV: 00

LEGEND :

EXISTING PLAN :

- EXIST. ROAD
- K-1/R : KACHA RESIDENTIAL
K-1/C : KACHA COMMERCIAL
SP-1/R : SEMI PUGGA RESI.
SP-1/C : SEMI PUGGA COMM.
P-1/R : PUGGA RESIDENTIAL
P-1/C : PUGGA COMMERCIAL
- 1000 CONTOUR

PROPOSED PLAN :

- TDE LINE
ES EDGE
HS EDGE
C/W EDGE
CEN. LINE
C/W EDGE
HS EDGE
ES EDGE
TDE LINE
- HOR. TANGENT POINT
- PROW PROPOSED ROW
- CULVERT
- BRIDGE

PROPOSED PROFILE :

- PROP. LEVEL
EXIS. ROAD LEVEL
LEFT 6M LEVEL
EXIST. LEVEL AT PROP. CL
RIGHT 6M LEVEL
VER. TANGENT POINT
- GRID LINE
- BOX CULVERT

APPROVED



Shambhavi Techno Solutions Pvt. Ltd.

Managing Director



Level Datum = 710(M) ▼

PROP. ROAD LEVELS (M)

EXIST LEVELS AT PROP. CL (M)

EXISTING ROAD LEVEL (M)

HORIZONTAL SCHEMATIC (M)

VERTICAL SCHEMATIC (G = %)
(L = m)WIDENING SCHEMATIC (M)
LEFT
RIGHTSUPERELEVATION SCHEMATIC (e in %)
LEFT
RIGHT

CHAINAGE (M)

Rev.	Date	Description



EPC CONTRACTOR:

GPT

JC - 25, Sector - III, Salt Lake, Kolkata - 700098.

AUTHORITY ENGINEER:

M/S CHAITANYA PROJECTS CONSULTANCY PVT. LTD. IN ASSOCIATION WITH MSPARK FUTURISTICS AND ASSOCIATES

C-2ND FLOOR, RJK TOWER, SECTOR-4, VAISHALI, GHANABAD-201090

SAFETY CONSULTANT:

SUVADRA

PP-97, Tankapani Road, BBSR-18, Odisha

PROOF CONSULTANT:

SHAMBHAVI TECHNO SOLUTIONS PVT. LTD.

E-42, Rajesh Kumar Path, S.K. Park, Boring Road, Patna-800001

DESIGN CONSULTANT:

SPS Technocrats Pvt. Ltd.

510 & 511, JMD Megapole, Sector 48, Gurgaon, Haryana - 122016

PROJECT:

Widening to 2 (Two) Lane with Hard shoulder of Churachandpur to Tuivai section of NH 102B from Km. 118.850 to Km 130.000 (Package-4A) in the State of Manipur on Engineering, Procurement & Construction (EPC) mode.

DRAWN: AMIT
CHECKED: MURARI
DATE: OCT - 2020

TITLE: Plan & Longitudinal Profile
(From Xje 124+500 to Xje 125+000)

SCALE: 1:1000
DATE: OCT - 2020
ORG. NO: GPT/CCT/4A/HW/PP/12a

REV: NO

EXISTING PLAN :

PROPOSED PLAN:

PROPOSED PROFILE :

APPROVED

W. J. Stone
DESIGN DIRECTOR

Shambhavi Techno Solutions Pvt. Ltd.
Managing Director

Handwritten signature

SUVAGRA CONSULTANTS
Regd. No.
11/2004-05
BHUBANESWAR

Rev.	Date	Description

CLIENT:



NAIDCL
BUILDING INFRASTRUCTURE - BUILDING THE NATION

EPC CONTRACTOR:

GPT
group

JC - 25, Sector - III, Salt Lake,
Kolkata - 700098.

AUTHORITY ENGINEER:

 **M/S CHAITANYA PROJECTS
CONSULTANCY PVT. LTD.**
IN ASSOCIATION WITH MSPARK
FUTURISTICS AND ASSOCIATES
6-52ND FLOOR, RK TOWER,
SECTOR-4 VAISHALI, GHAZIABAD-201010.

SAFETY CONSULTANT:

 **SUVADRA**
CONSULTANTS
Pvt. Ltd. 2020, Chhatrapati Shivaji Maharaj Road, 1st floor, 400 005, Mumbai, India

**PP-97, Tankapuri Road,
BBSR-18, Odisha**

PROOF CONSULTANT:

 **SHAMBHAVI TECHNO SOLUTIONS PVT.LTD.**
E-82, Rajesh Kumar Path,
S.K.Puri, Boring Road,
Patna-800001

DESIGN CONSULTANT:

 **SPS Technocrats Pvt. Ltd.**
610 & 611, JMD Megapolis, Sector 48,
Gurgaon, Haryana - 122018.

PROJECT:
Widening to 2 (Two) Lane with Hard shoulder of Churechampur to Tulai section of NH 102B from Km 118.850 to Km 130.000 (Package-4A) in the State of Manipur on Engineering, Procurement & Construction (EPC) mode.

DRAWN	ANIT
DESIGNED	MURARI
CHECKED	VIPUL
DATE: OCT - 2020	

Plan & Longitudinal Profile
(From Km 125+000 to Km 125+358.397)

SCALE: HORIZ: 1:1000; VERT: 1:400 at A2 (See Sheet)

10 0 10 20
VER 0 5 10 15

DRG. No: GPT/CCT/4A/HW/PNP/13

REV:
RO:

CHURACHANDPUR

LEGEND :

EXISTING PLAN :

- EXIST. ROAD
- K-I/R : KACHA RESIDENTIAL
K-I/C : KACHA COMMERCIAL
SP-I/R : SEMI PUCCA RESI.
SP-I/C : SEMI PUCCA COMM.
P-I/R : PUCCA RESIDENTIAL
P-I/C : PUCCA COMMERCIAL
- 1000 CONTOUR

PROPOSED PLAN :

- TOE LINE
ES EDGE
MS EDGE
C/W EDGE
CEN. LINE
Q/W EDGE
HS EDGE
ES EDGE
TOE LINE

HOR. TANGENT POINT

PROW PROPOSED ROW

CULVERT

BRIDGE

PROPOSED PROFILE :

- PROP. LEVEL
EXIS. ROAD LEVEL
LEFT 6M LEVEL
EXIST. LEVEL AT PRO. CL
RIGHT 6M LEVEL
VER. TANGENT POINT

GRID LINE

BOX CULVERT

Level (Datum = 710(M))

PROP. ROAD LEVELS (M)

EXIST LEVELS AT PRO. CL (M)

EXISTING ROAD LEVEL (M)

HORIZONTAL SCHEMATIC (M)

VERTICAL SCHEMATIC (G=%)

(L=m)

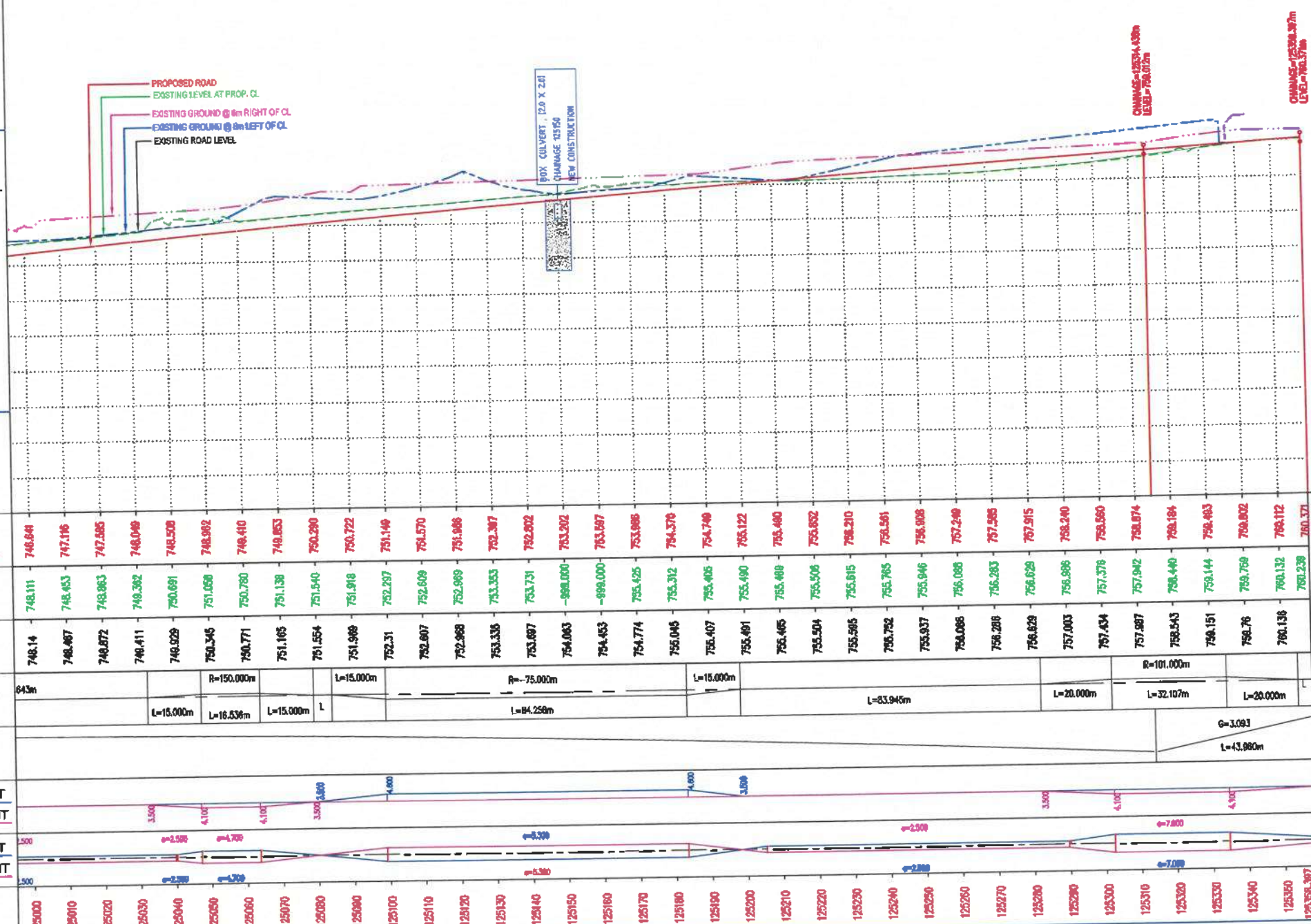
WIDENING SCHEMATIC (M)

LEFT RIGHT

SUPERELEVATION SCHEMATIC (e in %)

LEFT RIGHT

CHAINAGE (M)



APPROVED

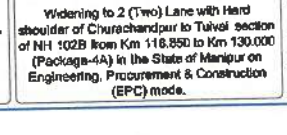
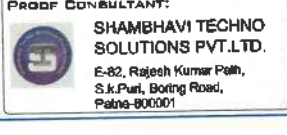
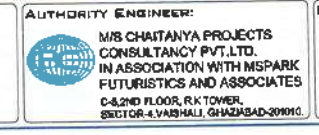
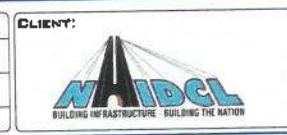


Shambhavi Techno Solutions Pvt. Ltd.

Managing Director



Rev.	Date	Description



DRAWN	AMIT
DESIGNED	MURARI
CHECKED	VIPUL
DATE: OCT - 2020	

TITLE:	Plan & Longitudinal Profile (From Km 124+500 to Km 125+358.397)
SCALE:	(HORIZ: 1:1000, VERT: 1:100) AS SHOWN
DRS. NO:	GPT/CCT/4A/HW/PNP/13a
REV:	R0