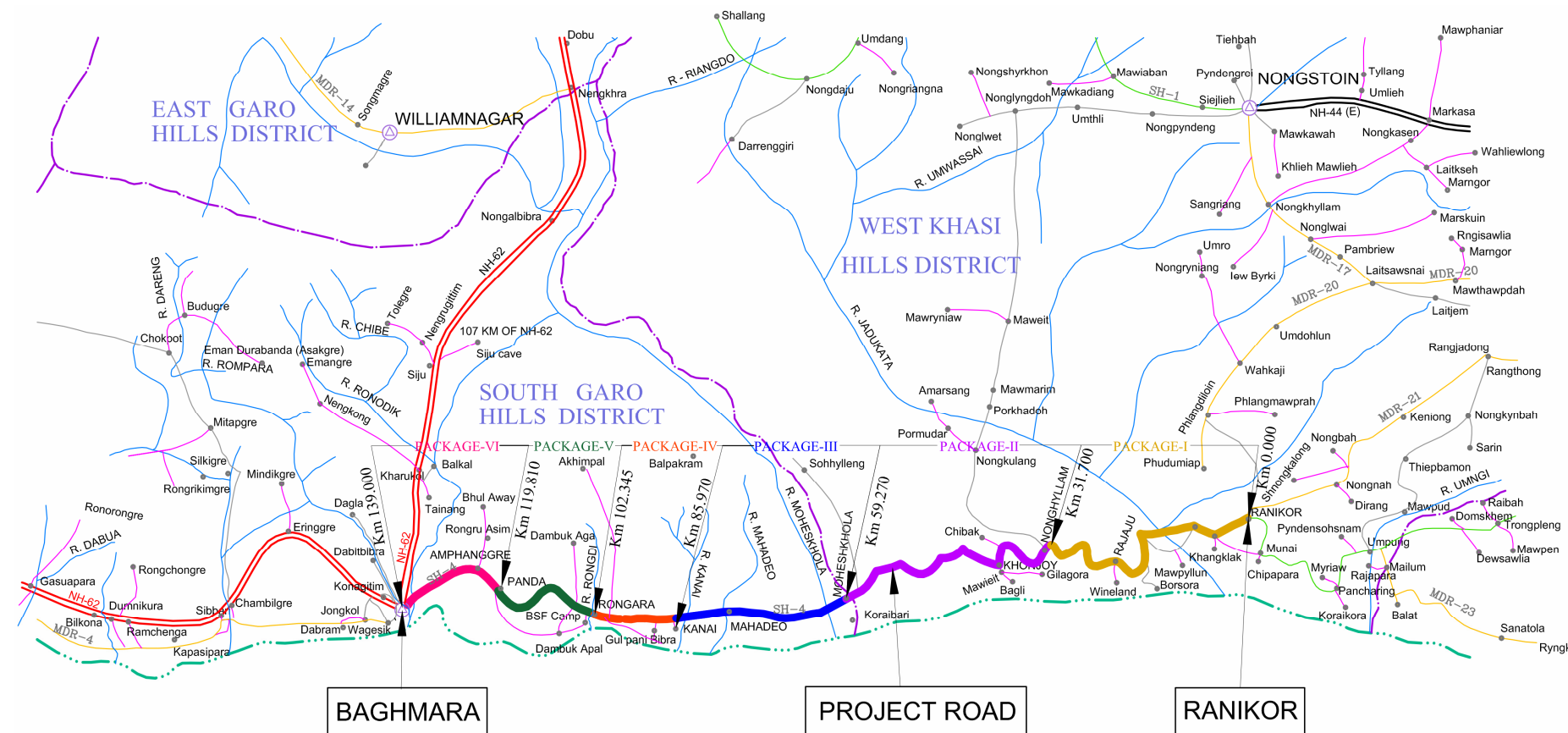


Consultancy Services for Preparation of Detailed Project Report for Development of Ranikor- Nonghyllam-Maheshkhola-Baghmara road from Km 119.800 to Km 139.000 (Design Chainage at 112.300 to 129.385) in Meghalaya to 2-Lane Standards

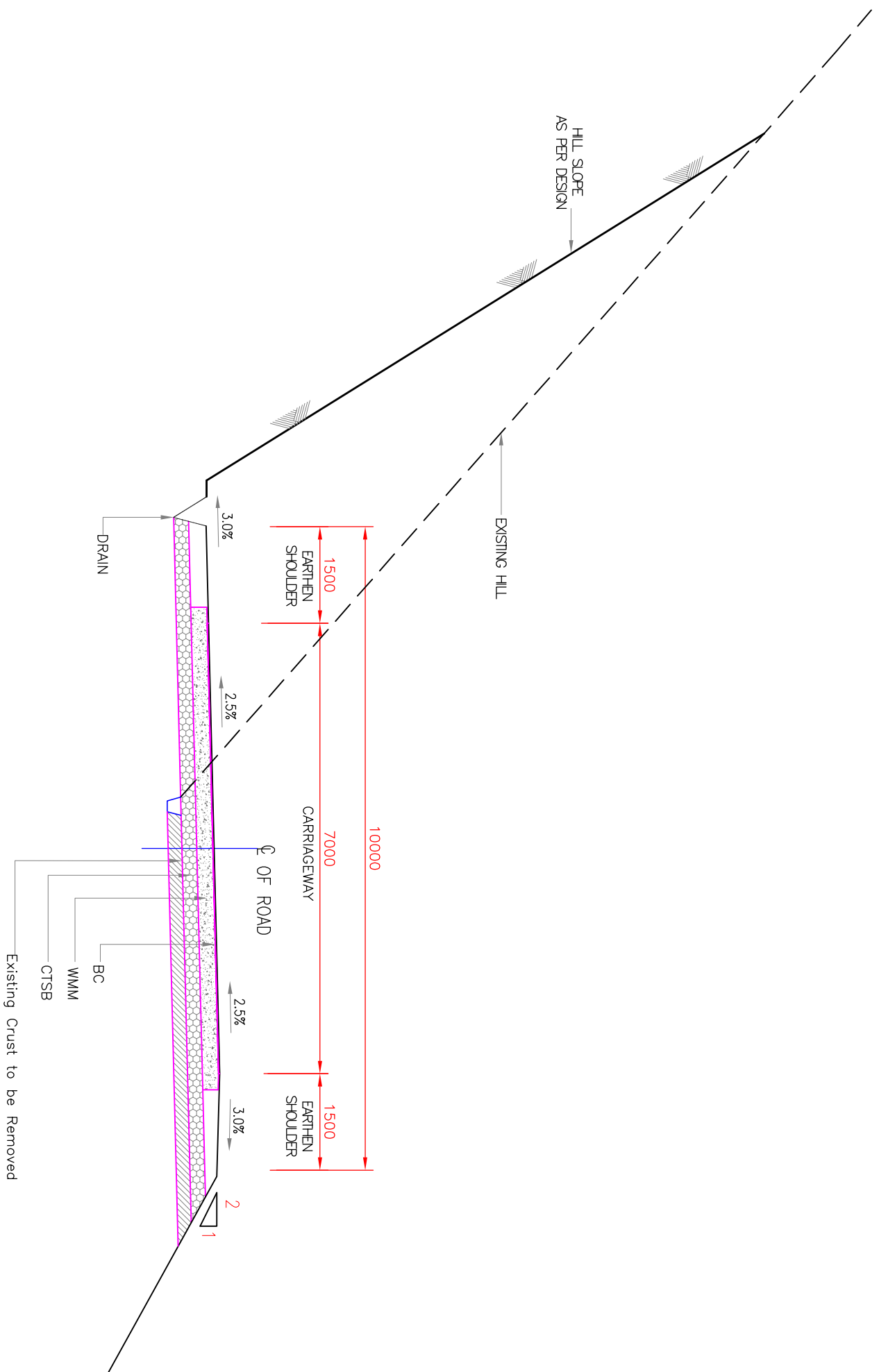


DETAILED PROJECT REPORT
Panda(Km 112.3) to Baghmara (Km 129.385)
VOLUME IV : Drawings



HOLTEC CONSULTING PVT. LTD.

Holtec Centre
A Block, Sushant Lok
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www.holtecnet.com



TCS-1 :- 2 LANE WITH EARTHEN
SHOULDER FOR WIDENING (ONE SIDE HILL)

Revisions			
Rev.	Date	Description	Drawn / Checked / Approved

Client : NATIONAL HIGHWAY AND INFRASTRUCTURE DEVELOPMENT CORPORATION LIMITED

Consultant: **HOLTEC CONSULTING PRIVATE LIMITED**
HOLTEC CENTRE, A BLOCK, SUSHANT LOK, GURGAON-122001 HARYANA, INDIA
PHONE : 0124-2385095, 2385096, FAX 0124-2385114, 2385116

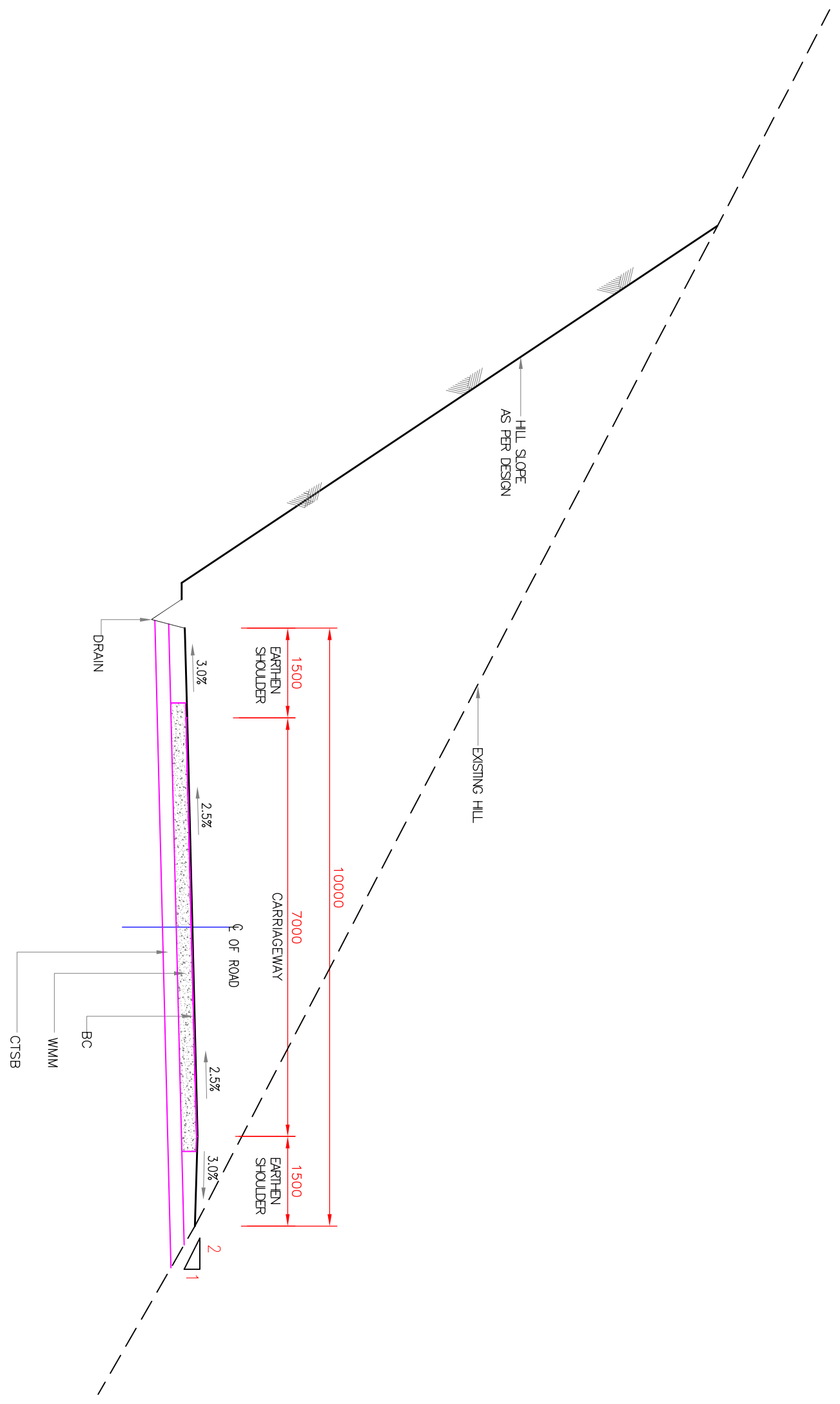
Title : TYPICAL CROSS SECTION - 1 :- 2 LANE WITH EARTHEN SHOULDER FOR WIDENING (ONE SIDE HILL)

Project :	Drawn :	Checked :	Approved :
CONSULTANCY SERVICES FOR DETAILED ENGINEERING / DETAILED PROJECT PREPARATION FOR UPGRADATION OF RANIKOR-NONGHYLLAM-MAHESHKHOLA-BAGHMARA ROAD TO 2-LANE UNDER SARDP-NE "PHASE-A" IN MEGHALAYA	YJ	SVR	JIG

Designed : YJ
Checked : JIG
Scale : NTS
Date : SEP-2018

Drawn : SVR
Checked : JIG
Scale : NTS
Date : SEP-2018

Drawing No. : HOL/RMB/PPR/10558/TCS-01
Rev. : 0
Sheet : A3



TCS-2 :- 2 LANE WITH EARTHEN SHOULDER
FOR NEW CONSTRUCTION (ONE SIDE HILL)

Revisions

Rev.	Date	Description	Drawn	Checked	Approved

Rev.	Date	Description	Drawn	Checked	Approved

Client : NATIONAL HIGHWAY AND INFRASTRUCTURE DEVELOPMENT CORPORATION LIMITED

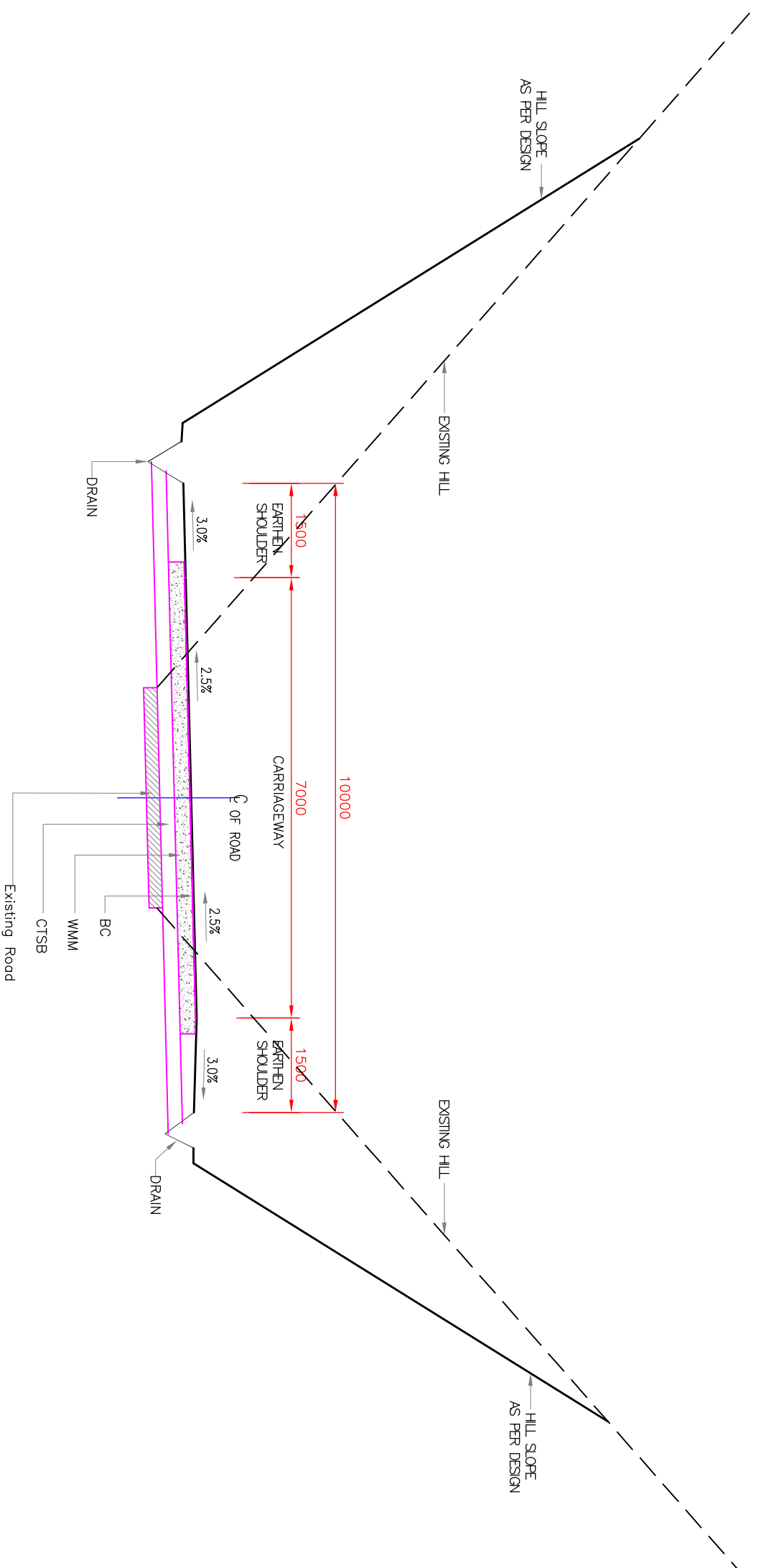
Project : CONSULTANCY SERVICES FOR DETAILED ENGINEERING / DETAILED PROJECT PREPARATION FOR UPGRADATION OF RANIKOR-NONGHYLLAM-MAHESHKHOLA-BAGHMARA ROAD TO 2-LANE UNDER SARDP-NE "PHASE-A" IN MEGHALAYA

Consultant: **HOLTEC CONSULTING PRIVATE LIMITED**
HOLTEC CENTRE, A BLOCK, SUSHANT LOK, GURGAON-122001 HARYANA, INDIA
PHONE : 0124-2385095, 2388096, FAX 0124-2385114, 2385116

Drawn	SVR	Scale	NTS	Date	SEP - 2018
Designed	YJ	Checked	JIG	Approved	JIG

Title : TYPICAL CROSS SECTION - 2 :- 2 LANE WITH EARTHEN SHOULDER FOR NEW CONSTRUCTION (ONE SIDE HILL)

Drawing No. :	HOL/RMB/PPR/10558/TCS-02	Rev.	0	Sheet	A3
CAD File Ref. :	HOL/RMB/PPR/10558/TCS-02				



TCS-3 :- 2 LANE WITH EARTHEN SHOULDER
FOR WIDENING (BOTH SIDE HILL)

Rev.	Date	Description	Drawn	Checked	Approved

Client : NATIONAL HIGHWAY AND INFRASTRUCTURE DEVELOPMENT CORPORATION LIMITED

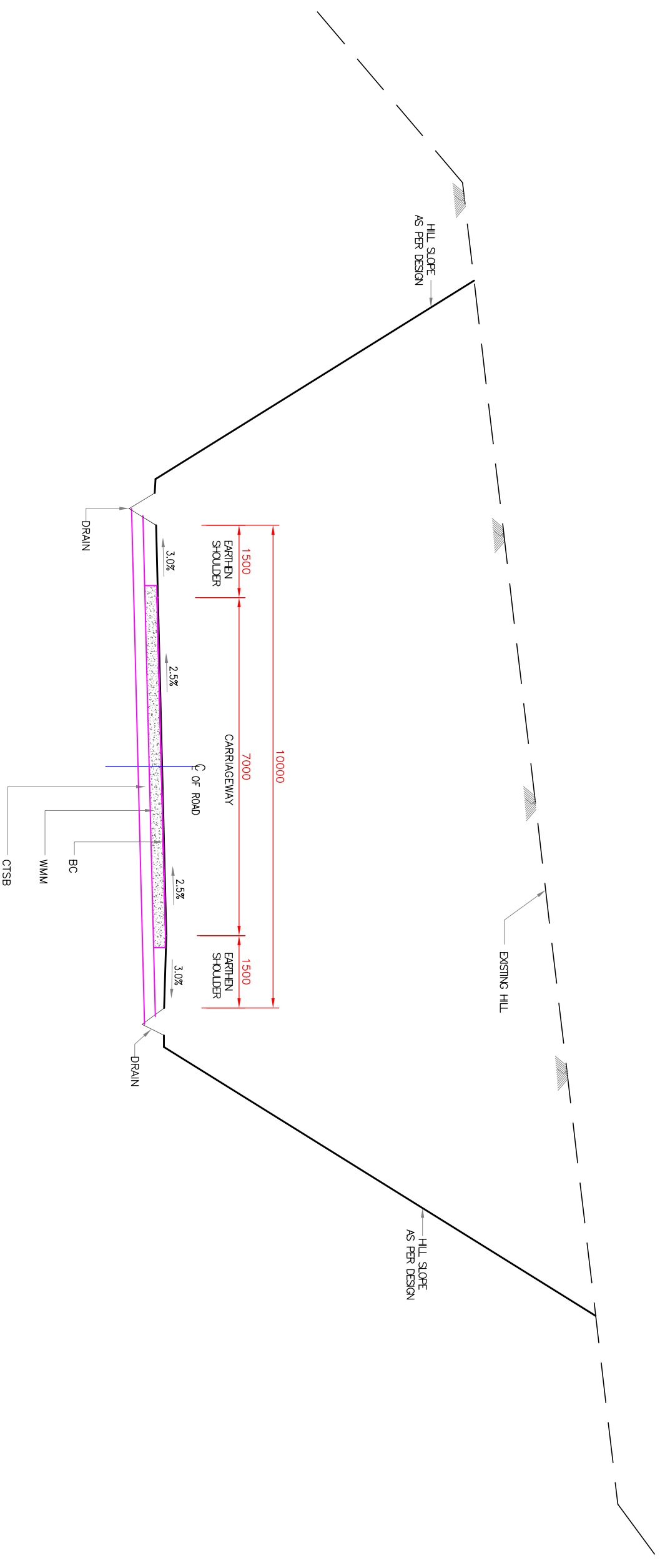
Project : CONSULTANCY SERVICES FOR DETAILED ENGINEERING / DETAILED PROJECT PREPARATION FOR UPGRADEATION OF RANIKOR-NONGHYLLAM-MAHESHKHOLA-BAGHMARA ROAD TO 2-LANE UNDER SARDP-NE "PHASE-A" IN MEGHALAYA

Consultant: **HOLTREC CONSULTING PRIVATE LIMITED**
HOLTREC CENTRE, A BLOCK, SUSHANT LOK, GURGAON-122001 HARYANA, INDIA
PHONE : 0124-2385095, 2385096, FAX 0124-2385114, 2385116

Drawn	Designed	Checked	Approved
SVR	YJ	JIG	JIG


Title : SHOULDER FOR WIDENING (BOTH SIDE HILL)

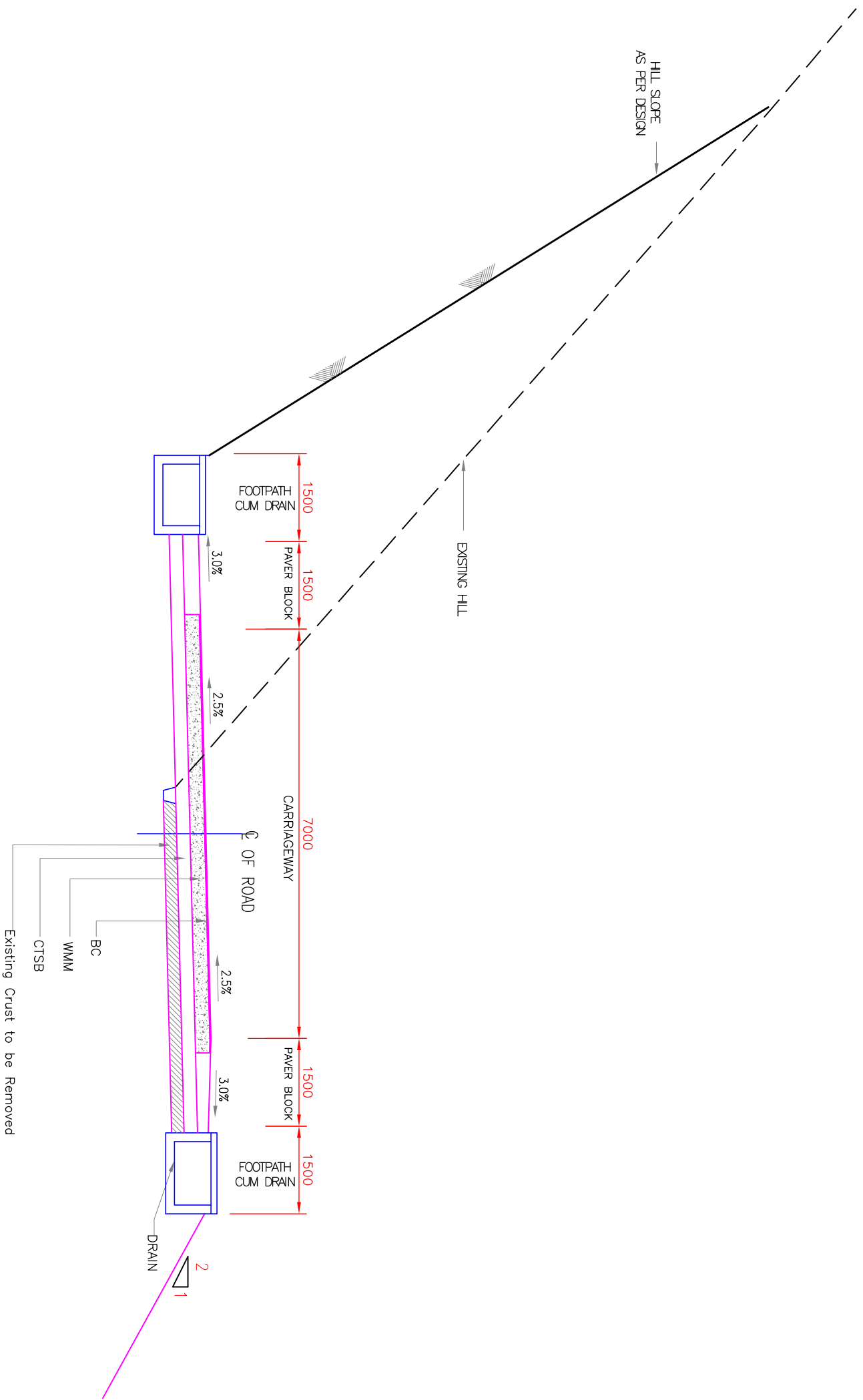
Drawing No. :	Rev.	Sheet
HOL/RMB/PPR/10558/TCS-03	0	A3



TCS-4 :- 2 LANE WITH EARTHEN SHOULDER FOR
NEW CONSTRUCTION (BOX CUT SECTION)

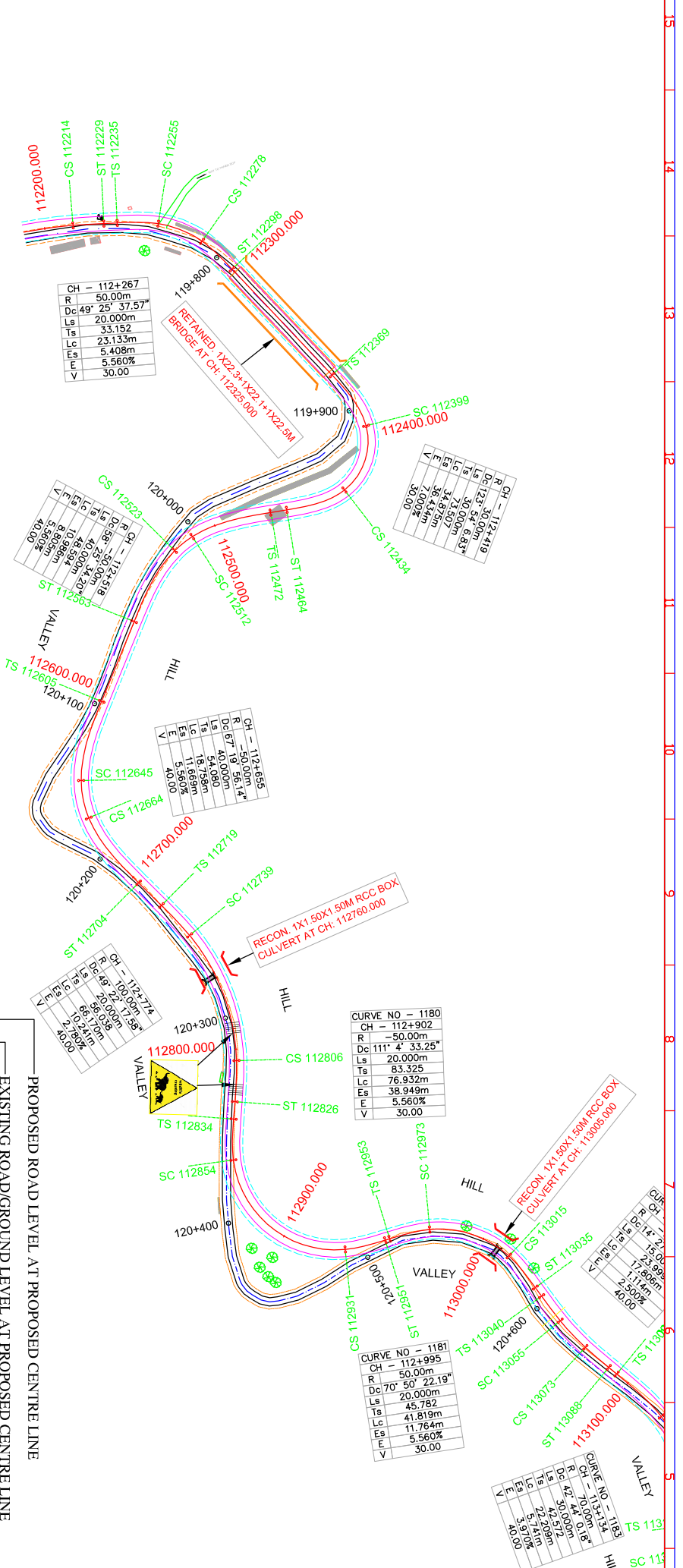
Rev.	Date	Description	Drawn	Checked	Approved
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5					
4					
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1					

Revisions		Client :		Consultant:		Title :	
		NATIONAL HIGHWAY AND INFRASTRUCTURE DEVELOPMENT CORPORATION LIMITED		 HOLTEC CONSULTING PRIVATE LIMITED HOLDING CENTRE, A BLOCK, SUSHANT LOK, GURGAON-122001 HARYANA, INDIA PHONE : 0124-2385095, 2385096, FAX 0124-2385114, 2385116		TYPICAL CROSS SECTION - 4 :- 2 LANE WITH EARTHEN SHOULDER FOR NEW CONSTRUCTION (BOX CUT SECTION)	
Project :		CONSULTANCY SERVICES FOR DETAILED ENGINEERING / DETAILED PROJECT PREPARATION FOR UPGRADATION OF RANIKOR-NONGHYLLAM-MAHESHKHOLA-BAGHMARA ROAD TO 2-LANE UNDER SARDP-NE "PHASE-A" IN MEGHALAYA		Designed		YJ	
Drawn		SVR		Checked		JIG	
Date		SEP - 2018		Approved		JIG	
Drawing No. :		HOL/RMB/DPR/10558/TCS-04		Rev.		0	
CAD File Ref. :		HOL/RMB/DPR/10558/TCS-04		Sheet		A3	



TCS-5 :- 2 LANE FOR BUILT-UP SECTION

Revisions		Client :		Consultant:		Title :	
Rev.	Date	NATIONAL HIGHWAY AND INFRASTRUCTURE DEVELOPMENT CORPORATION LIMITED		 HOLTEC CONSULTING PRIVATE LIMITED HO/TEC CENTRE, A BLOCK, SUSHANT LOK, GURGAON-122001 HARYANA, INDIA PHONE : 0124-2385095, 2385096, FAX 0124-2385114, 2385116		TYPICAL CROSS SECTION - 5:- 2 LANE WITH EARTHEN SHOULDER FOR BUILT-UP SECTION	
		Project : CONSULTANCY SERVICES FOR DETAILED ENGINEERING / DETAILED PROJECT PREPARATION FOR UPGRADATION OF RANIKOR-NONGHYLLAM-MAHESHKOLA-BAGHMARA ROAD TO 2-LANE UNDER SARDP-NE "PHASE-A" IN MEGHALAYA		Designed	YJ	Checked	JIG
		Drawn	SVR	Scale	NTS	Approved	JIG
		Checked		Date	SEP - 2018	Drawing No. :	HOL/RMB/DPR/10558/TCS-05
		Approved		CAD File Ref. :	HOL/RMB/DPR/10558/TCS-05	Rev.	0
				Sheet	A3		



CHAINAGE (METERS)	PROPOSED ROAD LEVEL AT PROPOSED CENTRE LINE	EXISTING ROAD/GROUND LEVEL AT PROPOSED CENTRE LINE	CUTTING / FILLING	GROUND LEVEL AT LEFT TOW FROM PROPOSED CENTRE LINE	GROUND LEVEL AT RIGHT TOW FROM PROPOSED CENTRE LINE	VERTICAL ALIGNMENT AT PROPOSED CENTRE LINE	HORIZONTAL ALIGNMENT AT PROPOSED CENTRE LINE	SUPERELEVATION / CROSSFALL (%)
112300.000	237.250	237.218	0.031	237.133	237.180			
112320.000	237.250	237.223	0.026	236.855	237.169			
112340.000	237.250	237.242	0.008	236.659	237.109			
112360.000	237.250	237.223	0.026	236.654	236.510			
112380.000	237.250	236.816	0.434	235.655	235.696			
112400.000	237.250	237.530	2.594	238.999	235.568			
112420.000	237.250	237.290	2.278	238.819	235.392			
112440.000	237.250	241.820	1.961	243.465	240.037			
112460.000	237.456	238.270	1.851	239.889	236.460			
112480.000	238.127	236.087	2.041	236.925	235.841			
112500.000	239.264	239.388	-0.125	239.334	238.809			
112520.000	240.659	242.367	-1.707	242.818	240.910			
112540.000	242.056	242.090	-0.035	243.963	242.561			
112560.000	243.452	244.185	-0.733	245.298	244.041			
112580.000	244.848	247.264	-2.415	248.069	245.118			
112600.000	246.244	247.823	-1.579	250.413	246.649			
112620.000	247.641	250.597	-2.956	251.730	248.791			
112640.000	249.037	253.627	-4.591	254.050	252.776			
112660.000	250.433	260.135	-6.473	261.743	258.743			
112680.000	251.829	259.722	-7.893	258.873	257.152			
112700.000	253.226	260.296	-7.071	260.754	258.725			
112720.000	254.622	262.127	-7.505	263.086	260.828			
112740.000	256.018	264.934	-8.916	264.900	261.905			
112760.000	257.414	264.228	-6.814	266.525	263.500			
112780.000	258.809	266.707	-7.898	268.404	263.975			
112800.000	260.160	266.634	-6.474	270.269	265.460			
112820.000	261.444	269.159	-7.716	274.111	267.042			
112840.000	262.664	270.062	-7.399	274.368	267.933			
112860.000	263.862	274.876	-8.240	280.170	270.174			
112880.000	265.061	287.531	-9.605	294.081	284.081			
112900.000	266.259	295.849	-10.615	301.480	291.480			
112920.000	267.458	288.486	-10.620	295.004	285.004			
112940.000	268.657	283.033	-12.772	288.420	278.415			
112960.000	269.855	282.506	-12.650	284.996	279.803			
112980.000	271.054	284.386	-13.333	285.219	281.861			
113000.000	272.252	285.133	-12.881	284.330	282.974			
113020.000	273.451	285.850	-12.400	286.176	284.960			
113040.000	274.649	287.793	-13.143	286.547	285.810			
113060.000	275.848	288.611	-12.762	287.335	286.968			

Revisions

Rev.	Date	Description	Drawn	Checked	Approved

Legend :-

- Existing Road
- Proposed Road
- Telephone Pole
- RDW
- Boundary wall
- Electric post
- Tree
- Handpump
- Building/Shop
- Kilometer stone
- Culvert/Bridge
- T.B.M.

Client : NATIONAL HIGHWAY AND INFRASTRUCTURE DEVELOPMENT CORPORATION LIMITED

Project : CONSULTANCY SERVICES FOR DETAILED ENGINEERING / DETAILED PROJECT PREPARATION FOR UPGRADATION OF RANKOR-NONGHYLLAM-MAHESHKHOLA-BAGHMARA ROAD TO 2-LANE UNDER SARDP-N E PHASE-A IN MEGHALAYA

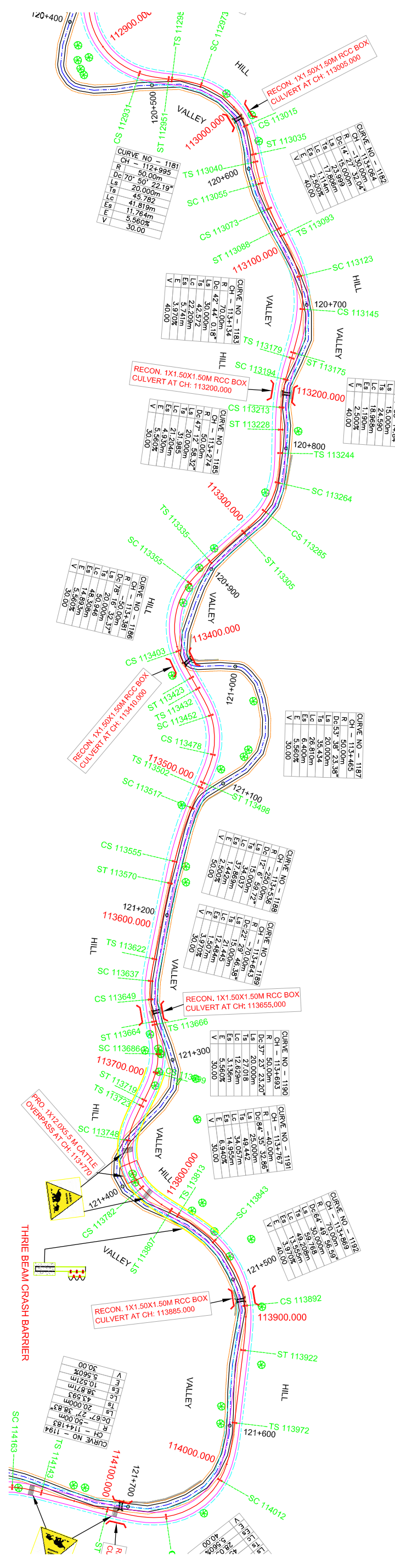
Consultant: HOLTEC CONSULTING PRIVATE LIMITED
 HOLTEC CENTRE, A BLOCK, SUSHANT LOK, GURGAON-122001 HARYANA, INDIA
 PHONE : 0124-2385095, 2385096, FAX 0124-2385114, 2385116

Designing: SA
Checked: JIG
Scale: HOR-1:2850
 VER-1:725

Approved: JIG
Date: MAR. 2019

Title : ALIGNMENT PLAN & PROFILE OF SH-4
 KM 112.300 TO 113.000

Drawing No. : HOL/RMB/PPR/10558/PP-113
Rev. : 0
Sheet : A3



STATION	PROPOSED ROAD LEVEL AT PROPOSED CENTRE LINE	EXISTING ROAD/GROUND LEVEL AT PROPOSED CENTRE LINE	CUTTING / FILLING	GROUND LEVEL AT LEFT TOW FROM PROPOSED CENTRE LINE	GROUND LEVEL AT RIGHT TOW FROM PROPOSED CENTRE LINE	VERTICAL ALIGNMENT AT PROPOSED CENTRE LINE	HORIZONTAL ALIGNMENT AT PROPOSED CENTRE LINE	SUPERELEVATION / CROSSFALL (%)	CHANGAGE (METERS)
113000.000	272.252	285.133	-12.881	284.330	282.974				
113020.000	273.451	285.850	-12.400	286.176	284.960				
113040.000	274.649	287.793	-13.143	286.547	285.810				
113060.000	275.848	288.611	-12.762	287.335	286.968				
113080.000	277.047	289.137	-12.091	287.720	290.332				
113100.000	278.245	289.934	-11.688	287.833	292.566				
113120.000	279.444	290.678	-11.234	287.735	294.300				
113140.000	280.642	291.904	-11.262	292.126	296.504				
113160.000	281.841	296.387	-14.546	293.482	298.060				
113180.000	283.039	296.335	-13.296	294.770	297.740				
113200.000	284.238	296.168	-11.930	294.188	296.096				
113220.000	285.437	298.709	-13.272	296.685	297.893				
113240.000	286.635	300.201	-13.565	298.085	299.710				
113260.000	287.834	301.001	-13.168	297.460	302.363				
113280.000	289.032	302.701	-13.668	299.927	303.177				
113300.000	290.254	304.224	-13.969	300.785	303.744				
113320.000	291.542	305.651	-14.109	302.327	305.666				
113340.000	292.896	309.380	-14.319	304.449	314.450				
113360.000	294.293	312.200	-14.416	308.023	318.020				
113380.000	295.692	313.930	-14.511	309.029	319.030				
113400.000	297.090	314.620	14.608	310.438	320.440				
113420.000	298.488	314.937	-16.110	313.292	321.290				
113440.000	299.887	334.833	-20.422	329.141	337.141				
113460.000	301.285	339.276	-20.586	334.845	342.845				
113480.000	302.683	336.395	-20.212	333.670	341.670				
113500.000	304.082	326.092	-20.077	323.097	331.100				
113520.000	305.480	325.591	-20.111	322.187	325.617				
113540.000	306.878	327.428	-20.549	324.947	328.513				
113560.000	308.277	329.265	-20.988	324.834	327.914				
113580.000	309.674	330.611	-20.937	326.353	326.994				
113600.000	311.028	332.294	-21.266	328.381	326.194				
113620.000	312.316	333.909	-21.593	333.177	327.079				
113640.000	313.538	334.757	-21.220	338.484	329.737				
113660.000	314.736	335.649	-20.913	334.314	333.423				
113680.000	315.934	338.587	-22.653	338.985	340.700				
113700.000	317.132	341.161	-24.030	339.387	340.000				
113720.000	318.330	342.878	-22.950	343.394	343.000				
113740.000	319.528	344.094	-24.566	345.114	342.445				
113760.000	320.726	344.895	-24.170	345.640	345.405				
113780.000	321.924	347.306	-25.381	345.570	343.341				
113800.000	323.122	346.020	-22.898	346.719	344.344				
113820.000	324.320	345.628	-21.308	346.325	344.948				
113840.000	325.518	346.300	-20.781	348.737	345.197				
113860.000	326.716	346.793	-20.076	350.040	345.448				
113880.000	327.914	346.418	-18.503	348.545	345.719				
113900.000	329.113	346.107	-16.994	347.231	345.831				
113920.000	330.311	348.069	-17.758	348.056	346.218				
113940.000	331.509	348.989	-17.480	348.860	346.966				
113960.000	332.707	349.166	-16.459	349.665	348.266				
113980.000	333.905	348.958	-15.053	349.617	348.308				
114000.000	335.103	349.441	-14.339	350.158	347.776				
114020.000	336.301	350.724	-14.422	352.750	347.875				

Revisions

Rev.	Date	Description	Drawn	Checked	Approved
15					
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Legend :-

- Existing Road
- Proposed Road
- Telephone Pole
- Tree
- Electric post
- Handpump
- Kilometer stone
- T.B.M.
- Culvert/Bridge

Client : NATIONAL HIGHWAY AND INFRASTRUCTURE DEVELOPMENT CORPORATION LIMITED

Project : CONSULTANCY SERVICES FOR DETAILED ENGINEERING / DETAILED PROJECT PREPARATION FOR UPGRADATION OF RANKOR-NONGHYLLAM-MAHESKHOLA-BAGHMARA ROAD TO 2-LANE UNDER SARDP-NE PHASE-A IN MEGHALAYA

Consultant : HOLTEC CONSULTING PRIVATE LIMITED
 HOLTEC CENTRE, A BLOCK, SUSHANT LOK, GURGAON-122001 HARYANA, INDIA
 PHONE : 0124-2395095, 2395096, FAX 0124-2395114, 2395116

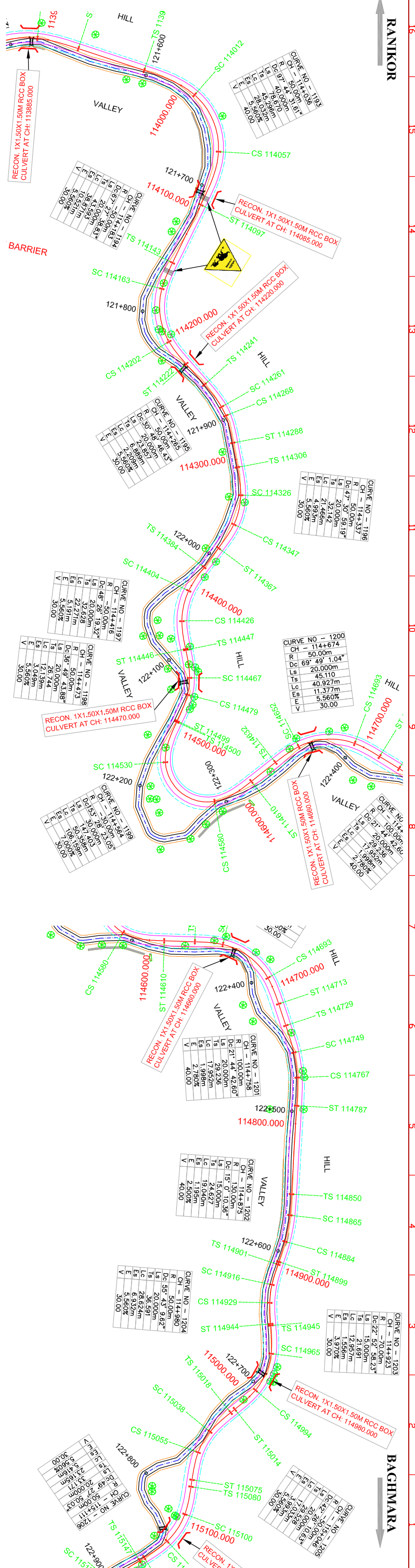
Designed : SA
Checked : JIG
Approved : JIG

Date : MAR. 2019

Scale : HOR-1:2850
 VER-1:725

Drawing No. : HOL/RMB/PPR/10558/PP-114
Rev. : 0
Sheet : A3

Title : ALIGNMENT PLAN & PROFILE OF SH-4
 KM 113.000 TO 114.000



CHANGING (METERS)	SUPERELEVATION/ CROSSFALL(%)	HORIZONTAL ALIGNMENT AT PROPOSED CENTRELINE	VERTICAL ALIGNMENT AT PROPOSED CENTRELINE	GROUND LEVEL AT RIGHT TOW FROM PROPOSED CENTRELINE	GROUND LEVEL AT LEFT TOW FROM PROPOSED CENTRELINE	CUTTING/ FILLING	EXISTING ROAD/GROUND LEVEL AT PROPOSED CENTRE LINE	PROPOSED ROAD LEVEL AT PROPOSED CENTRELINE	DATUM LEVEL =223.000
114000.000				347.776	350.158	-14.339	349.441	335.103	
114020.000				347.875	352.750	-14.422	350.724	336.301	
114040.000				348.756	352.125	-14.613	352.112	337.499	
114060.000				349.442	351.738	-12.518	351.215	338.697	
114080.000				349.742	353.267	-10.372	350.268	339.895	
114100.000				350.174	355.127	-9.832	350.925	341.093	
114120.000				351.512	356.221	-10.797	353.089	342.291	
114140.000				353.390	356.487	-10.184	353.674	343.490	
114160.000				354.790	356.956	-11.285	355.973	344.688	
114180.000				356.510	358.820	-12.617	358.502	345.886	
114200.000				358.437	361.010	-13.237	360.320	347.084	
114220.000				358.276	361.526	-11.866	360.147	348.282	
114240.000				359.863	361.652	-11.425	360.904	349.480	
114260.000				361.307	363.550	-11.558	362.236	350.678	
114280.000				362.102	364.718	-11.527	363.403	351.876	
114300.000				363.224	365.735	-10.844	363.945	353.101	
114320.000				364.633	366.098	-10.967	365.359	354.392	
114340.000				366.101	367.040	-11.688	367.438	355.750	
114360.000				366.997	369.079	-10.746	367.893	357.148	
114380.000				367.600	369.984	-10.046	368.592	358.546	
114400.000				369.633	375.630	-10.896	370.840	359.944	
114420.000				379.539	385.539	-11.834	382.871	361.342	
114440.000				374.509	376.224	-12.997	375.738	362.741	
114460.000				372.333	373.086	-10.834	374.972	364.139	
114480.000				372.525	373.664	-7.128	372.666	365.537	
114500.000				372.953	382.398	-6.836	377.777	366.935	
114520.000				372.852	382.298	-5.514	376.303	368.205	
114540.000				380.980	390.429	-4.817	385.142	368.849	
114560.000				381.957	391.405	-3.059	385.674	368.818	
114580.000				368.321	369.483	-0.171	368.412	368.240	
114600.000				367.268	369.626	-0.939	368.553	367.613	
114620.000				366.772	370.078	-1.906	368.892	366.986	
114640.000				366.586	371.436	-3.069	369.428	366.359	
114660.000				366.032	366.214	-0.282	366.015	365.732	
114680.000				366.102	372.995	-4.161	369.267	365.105	
114700.000				370.203	377.099	-4.996	374.161	364.478	
114720.000				367.500	374.397	-3.812	369.449	363.851	
114740.000				363.972	364.701	-1.193	364.416	363.224	
114760.000				363.070	363.644	-0.815	363.411	362.597	
114780.000				362.742	362.965	-0.834	362.804	361.970	
114800.000				362.075	362.529	-0.904	362.247	361.343	
114820.000				361.423	362.102	-0.317	361.156	360.839	
114840.000				361.237	361.675	-0.488	361.307	360.818	
114860.000				361.595	361.658	-0.493	361.797	361.304	
114880.000				361.796	364.157	-0.216	362.513	362.297	
114900.000				364.005	365.498	-1.017	364.689	363.673	
114920.000				365.409	369.074	-2.232	367.303	365.072	
114940.000				367.616	371.245	-1.857	368.327	366.471	
114960.000				369.248	373.585	-3.357	371.227	367.869	
114980.000				371.249	376.075	-2.186	371.455	369.268	
115000.000				373.135	374.469	-3.149	373.816	370.667	
115020.000				374.955	377.404	-5.297	377.363	372.066	

Revisions

Rev.	Date	Description	Drawn	Checked	Approved
15					
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Legend :-

- Existing Road
- Proposed Road
- Telephone Pole
- Tree
- Electric post
- Handpump
- Kilometer stone
- T.B.M.
- Barrier
- Recon. RCC Box Culvert

Client : NATIONAL HIGHWAY AND INFRASTRUCTURE DEVELOPMENT CORPORATION LIMITED

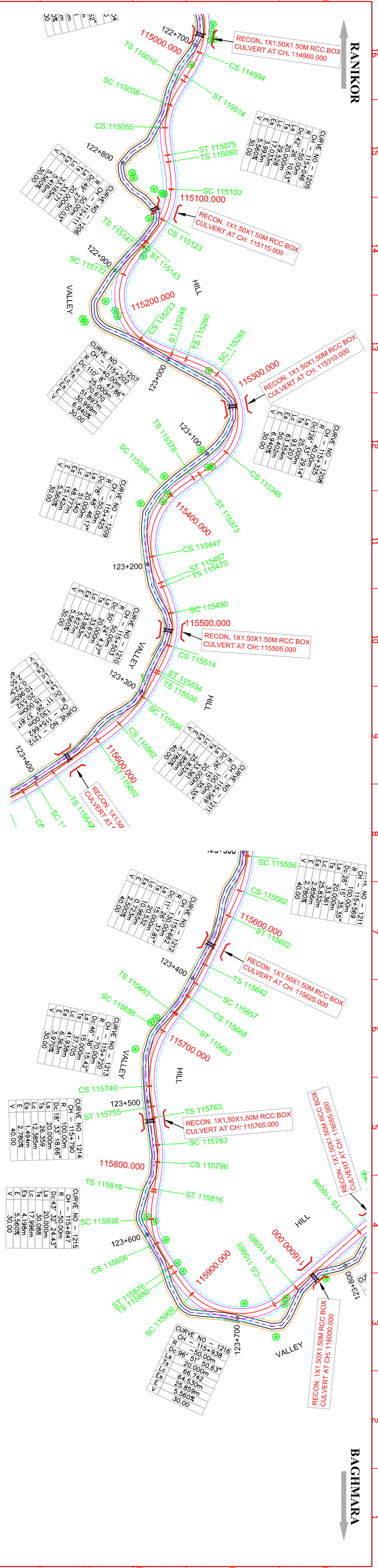
Project : CONSULTANCY SERVICES FOR DETAILED ENGINEERING / DETAILED PROJECT PREPARATION FOR UPGRADATION OF RANKOR-NONGHYLLAM-MAHESHKHOLA-BAGHMARA ROAD TO 2-LANE UNDER SARDP-NE PHASE-A IN MEGHALAYA

Consultant : HOLTEC CONSULTING PRIVATE LIMITED
HOLTEC CENTRE, A BLOCK, SUSHANT LOK, GURGAON-122001 HARYANA, INDIA
PHONE : 0124-2395095, 2395096, FAX 0124-2395114, 2395116

Designed : SA
Checked : JIG
Approved : JIG

Date : MAR. 2019

Drawing No. : HOL/RMB/PPR/10558/PP-115
Rev. : 0
Sheet : A3



CHANGAGE (METERS)	SUPERELEVATION/ CROSSFALL(%)	HORIZONTAL ALIGNMENT AT PROPOSED CENTRELINE	VERTICAL ALIGNMENT AT PROPOSED CENTRELINE	GROUND LEVEL AT RIGHT TOW FROM PROPOSED CENTRELINE	GROUND LEVEL AT LEFT TOW FROM PROPOSED CENTRELINE	CUTTING/ FILLING	EXISTING ROAD/GROUND LEVEL AT PROPOSED CENTRE LINE	PROPOSED ROAD LEVEL AT PROPOSED CENTRELINE	DATUM LEVEL =223.000
115000.000	0-2.500	R=50.000m	R=5980.00m	373.135	374.469	-3.149	373.816	370.667	
115020.000	0-2.500	R=50.000m	R=5980.00m	374.955	377.404	-5.297	377.363	372.066	
115040.000	0-5.500	R=50.000m	R=5980.00m	375.551	380.042	-4.366	377.815	373.449	
115060.000	0-2.500	R=50.000m	R=5980.00m	379.057	381.969	-5.009	379.777	374.768	
115080.000	0-2.500	R=50.000m	R=5980.00m	392.688	395.688	-7.571	395.251	376.020	
115100.000	0-5.500	R=50.000m	R=5980.00m	388.749	391.750	-9.624	390.374	377.221	
115120.000	0-2.500	R=50.000m	R=5980.00m	385.517	389.324	-10.872	389.291	378.420	
115140.000	0-2.500	R=50.000m	R=5980.00m	386.316	392.102	-7.702	387.320	379.618	
115160.000	0-2.500	R=50.000m	R=5980.00m	388.477	398.735	-9.971	393.050	380.817	
115180.000	0-6.940	R=50.000m	R=5980.00m	390.858	401.117	-13.228	395.244	382.016	
115200.000	0-6.940	R=50.000m	R=5980.00m	396.763	406.760	-15.509	400.205	383.214	
115220.000	0-2.500	R=50.000m	R=5980.00m	395.503	405.500	-13.586	398.130	384.413	
115240.000	0-2.500	R=50.000m	R=5980.00m	397.090	399.008	-11.895	397.506	385.611	
115260.000	0-2.500	R=50.000m	R=5980.00m	398.497	398.965	-13.679	400.489	386.810	
115280.000	0-2.500	R=50.000m	R=5980.00m	399.909	398.795	-12.324	400.332	388.008	
115300.000	0-6.940	R=50.000m	R=5980.00m	400.169	400.581	-11.850	401.057	389.207	
115320.000	0-6.940	R=50.000m	R=5980.00m	401.640	406.498	-12.630	403.080	390.406	
115340.000	0-2.500	R=50.000m	R=5980.00m	403.425	408.278	-15.708	405.640	391.604	
115360.000	0-2.500	R=50.000m	R=5980.00m	405.214	412.630	-16.806	409.609	392.803	
115380.000	0-2.500	R=50.000m	R=5980.00m	406.488	413.062	-15.874	409.876	394.001	
115400.000	0-5.500	R=50.000m	R=5980.00m	407.995	413.380	-16.410	411.610	395.200	
115420.000	0-5.500	R=50.000m	R=5980.00m	409.293	413.633	-17.426	413.825	396.399	
115440.000	0-2.500	R=50.000m	R=5980.00m	411.155	413.835	-15.539	413.177	397.637	
115460.000	0-2.500	R=50.000m	R=5980.00m	412.916	414.323	-15.266	414.208	398.943	
115480.000	0-2.500	R=50.000m	R=5980.00m	414.218	415.243	-14.755	415.069	400.314	
115500.000	0-5.500	R=50.000m	R=5980.00m	414.958	416.267	-13.487	415.198	401.711	
115520.000	0-2.500	R=50.000m	R=5980.00m	416.186	421.048	-14.113	418.690	403.109	
115540.000	0-2.500	R=50.000m	R=5980.00m	417.772	418.145	-13.649	418.156	404.507	
115560.000	0-2.780	R=50.000m	R=5980.00m	418.978	420.876	-14.318	420.223	405.904	
115580.000	0-2.500	R=50.000m	R=5980.00m	420.852	424.432	-14.567	422.130	407.302	
115600.000	0-2.500	R=50.000m	R=5980.00m	422.106	425.692	-15.763	423.860	408.700	
115620.000	0-2.500	R=50.000m	R=5980.00m	423.080	426.319	-15.062	425.159	410.096	
115640.000	0-2.500	R=50.000m	R=5980.00m	424.628	427.553	-15.257	426.704	411.447	
115660.000	0-2.500	R=50.000m	R=5980.00m	425.931	427.853	-15.568	428.301	412.732	
115680.000	0-2.500	R=50.000m	R=5980.00m	426.774	426.983	-12.659	426.612	413.953	
115700.000	0-1.970	R=50.000m	R=5980.00m	427.865	429.018	-14.847	429.998	415.151	
115720.000	0-1.970	R=50.000m	R=5980.00m	429.455	430.330	-14.960	431.310	416.350	
115740.000	0-2.500	R=50.000m	R=5980.00m	430.843	432.186	-12.980	430.528	417.549	
115760.000	0-2.500	R=50.000m	R=5980.00m	431.907	434.194	-12.803	431.551	418.747	
115780.000	0-2.780	R=50.000m	R=5980.00m	432.653	435.830	-13.900	433.847	419.946	
115800.000	0-2.500	R=50.000m	R=5980.00m	433.327	436.822	-13.375	434.519	421.145	
115820.000	0-2.500	R=50.000m	R=5980.00m	434.431	438.478	-14.863	437.207	422.344	
115840.000	0-5.500	R=50.000m	R=5980.00m	435.960	439.890	-15.707	439.249	423.542	
115860.000	0-2.500	R=50.000m	R=5980.00m	437.541	441.152	-13.152	437.894	424.741	
115880.000	0-2.500	R=50.000m	R=5980.00m	438.855	441.911	-13.291	439.230	425.940	
115900.000	0-2.500	R=50.000m	R=5980.00m	440.155	442.413	-14.794	441.932	427.139	
115920.000	0-5.500	R=50.000m	R=5980.00m	441.669	442.699	-14.727	443.065	428.337	
115940.000	0-2.500	R=50.000m	R=5980.00m	442.924	442.777	-14.145	443.682	429.536	
115960.000	0-2.500	R=50.000m	R=5980.00m	446.057	442.924	-16.976	447.711	430.735	
115980.000	0-2.500	R=50.000m	R=5980.00m	443.101	442.257	-13.867	445.801	431.934	
116000.000	0-2.500	R=50.000m	R=5980.00m	441.659	444.131	-8.701	441.833	433.132	
116020.000	0-2.500	R=50.000m	R=5980.00m	440.097	441.987	-8.208	442.539	434.331	

Revisions

Rev.	Date	Description	Drawn	Checked	Approved
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Legend :-

- Existing Road
- Proposed Road
- Telephone Pole
- Tree
- Electric post
- Handpump
- Kilometer stone
- T.B.M.
- Boundary wall
- Building/Shop
- Culvert/Bridge

Client : NATIONAL HIGHWAY AND INFRASTRUCTURE DEVELOPMENT CORPORATION LIMITED

Project : CONSULTANCY SERVICES FOR DETAILED ENGINEERING / DETAILED PROJECT PREPARATION FOR UPGRADATION OF RANKOR-NONGHYLLAM-MAHESKHOLA-BAGHMARA ROAD TO 2-LANE UNDER SARDP-NE PHASE-A IN MEGHALAYA

Consultant : HOLTEC CONSULTING PRIVATE LIMITED
 HOLTEC CENTRE, A BLOCK, SUSHANT LOK, GURGAON-122001 HARYANA, INDIA
 PHONE : 0124-2395095, 2395096, FAX 0124-2395114, 2395116

Scale : HOR: 1:2850, VER: 1:25

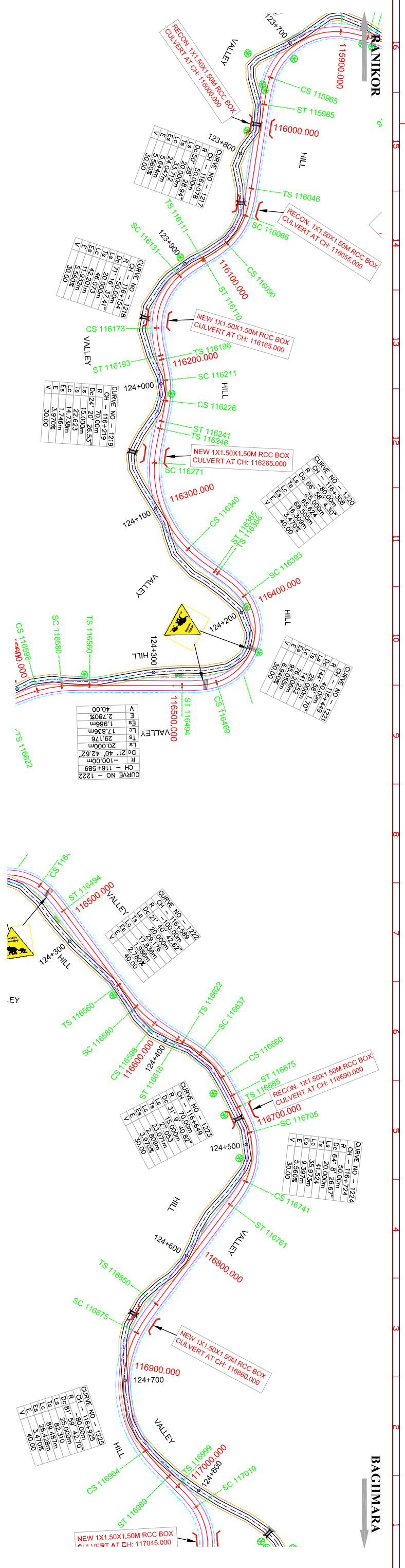
Date : MAR. 2019

Title : ALIGNMENT PLAN & PROFILE OF SH-4 KM 115.000 TO 116.000

Drawing No. : HOL/RMB/PPR/10558/PP-116

Rev. : 0

Sheet : A3



DATUM LEVEL = 223.000

CHANGAGE (METERS)	SUPERELEVATION/ CROSSFALL(%)	HORIZONTAL ALIGNMENT AT PROPOSED CENTRELINE	VERTICAL ALIGNMENT AT PROPOSED CENTRELINE	GROUND LEVEL AT RIGHT TOW FROM PROPOSED CENTRELINE	GROUND LEVEL AT LEFT TOW FROM PROPOSED CENTRELINE	CUTTING/ FILLING	EXISTING ROAD/GROUND LEVEL AT PROPOSED CENTRE LINE	PROPOSED ROAD LEVEL AT PROPOSED CENTRELINE
116000.000				441.659	444.131	-8.701	441.833	433.132
116020.000				440.097	441.987	-8.208	442.539	434.331
116040.000				440.063	439.540	-4.801	440.331	435.530
116060.000				438.176	444.540	-1.964	441.540	436.568
116080.000				438.252	439.063	-1.570	438.679	437.108
116100.000				437.756	441.005	-2.120	439.260	437.139
116120.000				437.396	437.946	-0.411	437.232	436.822
116140.000				435.779	438.277	-1.141	437.634	436.493
116160.000				435.420	437.687	-1.336	437.501	436.165
116180.000				435.801	436.831	-0.658	436.494	435.837
116200.000				434.744	436.397	-0.499	436.008	435.509
116220.000				434.167	435.543	-1.056	436.256	435.199
116240.000				434.987	436.259	-1.264	436.338	435.073
116260.000				437.963	437.125	-2.033	437.203	435.170
116280.000				438.084	436.925	-1.647	437.117	435.470
116300.000				435.473	438.785	-0.212	436.021	435.808
116320.000				436.139	439.677	-2.067	438.213	436.146
116340.000				437.388	440.057	-3.015	439.499	436.485
116360.000				439.544	440.374	-3.869	440.691	436.823
116380.000				440.165	440.932	-3.927	441.088	437.161
116400.000				438.950	441.710	-3.772	440.720	437.499
116420.000				439.019	445.340	-3.432	441.270	437.838
116440.000				439.260	440.881	-1.491	439.667	438.176
116460.000				439.655	440.846	-2.237	441.040	438.514
116480.000				439.907	441.957	-1.624	440.910	438.852
116500.000				440.247	442.297	-1.133	440.324	439.190
116520.000				440.453	439.408	-0.634	440.163	439.529
116540.000				440.662	438.749	-0.266	439.888	439.622
116560.000				440.626	438.874	-0.526	439.730	439.204
116580.000				439.848	438.661	-0.739	439.012	438.273
116600.000				438.344	437.848	-1.133	438.210	437.077
116620.000				437.933	436.228	-1.367	437.246	435.880
116640.000				437.169	435.552	-1.218	435.901	434.683
116660.000				435.100	434.890	-1.492	434.978	433.486
116680.000				434.796	433.669	-1.393	433.681	432.289
116700.000				433.078	432.426	-1.406	432.497	431.092
116720.000				431.935	430.766	-0.871	430.780	429.895
116740.000				429.670	429.246	-0.527	429.226	428.698
116760.000				428.383	428.000	-0.532	428.034	427.501
116780.000				427.021	426.810	-0.539	426.844	426.304
116800.000				428.178	425.780	-0.795	425.902	425.107
116820.000				424.873	424.335	-0.523	424.433	423.910
116840.000				423.001	423.386	-0.506	423.219	422.713
116860.000				421.712	422.093	-0.226	421.743	421.517
116880.000				420.681	420.857	-0.386	420.706	420.320
116900.000				423.576	419.899	-0.784	419.906	419.123
116920.000				422.148	419.516	-1.101	419.249	418.148
116940.000				419.599	418.551	-1.100	418.751	417.651
116960.000				417.908	417.839	-0.333	417.965	417.633
116980.000				419.697	418.190	-1.994	419.864	417.871
117000.000				426.949	418.186	-2.190	421.696	418.109
117020.000				432.057	423.298	-0.395	426.701	418.364

Revisions

Rev.	Date	Description	Drawn	Checked	Approved
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Legend :-

Existing Road	Telephone Pole
Proposed Road	Tree
RDW	Electric post
Boundary wall	Handpump
Building/Shop	Kilometer stone
Culvert/Bridge	T.B.M.

Client : NATIONAL HIGHWAY AND INFRASTRUCTURE DEVELOPMENT CORPORATION LIMITED

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 HOLTEC CENTRE, A BLOCK, SUSHANT LOK, GURGAON-122001 HARYANA, INDIA
 PHONE : 0124-2395095, 2395096, FAX 0124-2395114, 2395116

Scale: HOR-1:2500, VER-1:725

Date: MAR. 2019

Title: ALIGNMENT PLAN & PROFILE OF SH-4 KM 116.000 TO 117.000

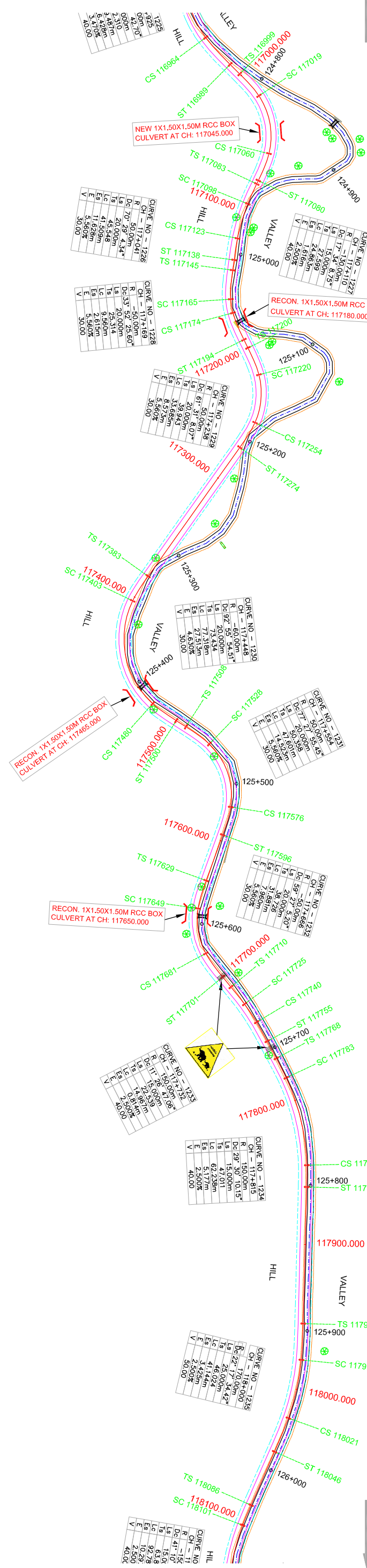
Drawing No.: HOL/RMB/PPR/10558/PP-117

Rev.: 0

Sheet: A3

RANKOR

BAGHMARA



CHANGAGE (METERS)	SUPERELEVATION/ CROSSFALL(%)	HORIZONTAL ALIGNMENT AT PROPOSED CENTRELINE	VERTICAL ALIGNMENT AT PROPOSED CENTRELINE	GROUND LEVEL AT RIGHT TOW FROM PROPOSED CENTRELINE	GROUND LEVEL AT LEFT TOW FROM PROPOSED CENTRELINE	CUTTING/ FILLING	EXISTING ROAD/GROUND LEVEL AT PROPOSED CENTRELINE	PROPOSED ROAD LEVEL AT PROPOSED CENTRELINE	DATUM LEVEL =223.000
117000.000	300	R=50.000m L=4.580	R=1282.664m L=60.000m	426.949	418.186	-2.190	421.696	418.109	
117020.000	300	R=50.000m L=4.580	R=1282.664m L=60.000m	432.057	423.298	-0.395	426.701	418.364	Chainage=117013.337m Level=18.267m
117040.000	300	R=50.000m L=4.580	R=1282.664m L=60.000m	445.968	437.209	-0.271	442.305	418.862	RECON. RCC BOX CUL. (1.5X1.5)
117060.000	300	R=50.000m L=4.580	R=1282.664m L=60.000m	444.264	435.505	-0.598	440.032	419.671	Chainage=117073.337m Level=20.385m
117080.000	300	R=50.000m L=4.580	R=1282.664m L=60.000m	430.840	422.077	-0.851	425.611	420.776	
117100.000	300	R=50.000m L=4.580	R=1282.664m L=60.000m	424.581	422.231	-0.657	422.606	421.949	Chainage=117151.390m Level=424.965m
117120.000	300	R=50.000m L=4.580	R=1282.664m L=60.000m	425.913	423.357	-1.033	424.156	423.123	
117140.000	300	R=50.000m L=4.580	R=1282.664m L=60.000m	427.181	424.678	-2.078	426.375	424.296	
117160.000	300	R=50.000m L=4.580	R=1282.664m L=60.000m	427.803	425.600	-1.419	426.895	425.477	
117180.000	300	R=50.000m L=4.580	R=1282.664m L=60.000m	429.642	426.776	0.000	426.720	426.720	RECON. RCC BOX CUL. (1.5X1.5)
117200.000	300	R=50.000m L=4.580	R=1282.664m L=60.000m	433.760	429.720	-1.576	431.910	428.039	Chainage=117211.390m Level=428.825m
117220.000	300	R=50.000m L=4.580	R=1282.664m L=60.000m	447.875	443.835	-3.886	445.828	429.425	
117240.000	300	R=50.000m L=4.580	R=1282.664m L=60.000m	441.560	437.525	-4.953	439.515	430.824	
117260.000	300	R=50.000m L=4.580	R=1282.664m L=60.000m	437.305	436.006	-3.832	436.056	432.223	
117280.000	300	R=50.000m L=4.580	R=1282.664m L=60.000m	443.370	437.365	-6.536	440.159	433.622	
117300.000	300	R=50.000m L=4.580	R=1282.664m L=60.000m	450.720	444.720	-6.341	447.205	435.021	
117320.000	300	R=50.000m L=4.580	R=1282.664m L=60.000m	454.011	448.011	-6.145	450.649	436.420	
117340.000	300	R=50.000m L=4.580	R=1282.664m L=60.000m	457.624	449.624	-5.740	453.923	437.819	
117360.000	300	R=50.000m L=4.580	R=1282.664m L=60.000m	450.980	442.982	-3.932	447.228	439.217	
117380.000	300	R=50.000m L=4.580	R=1282.664m L=60.000m	447.620	444.273	-4.952	445.569	440.616	
117400.000	300	R=50.000m L=4.580	R=1282.664m L=60.000m	448.051	445.591	-5.739	446.200	442.015	
117420.000	300	R=50.000m L=4.580	R=1282.664m L=60.000m	449.165	446.452	-5.449	447.660	443.414	
117440.000	300	R=50.000m L=4.580	R=1282.664m L=60.000m	450.033	447.368	-5.519	448.280	444.813	
117460.000	300	R=50.000m L=4.580	R=1282.664m L=60.000m	450.633	448.231	-2.973	449.184	446.212	
117480.000	300	R=50.000m L=4.580	R=1282.664m L=60.000m	449.738	448.924	-2.108	449.719	447.610	RECON. RCC BOX CUL. (1.5X1.5)
117500.000	300	R=50.000m L=4.580	R=1282.664m L=60.000m	451.238	449.702	-1.731	450.583	448.852	Chainage=117483.837m Level=447.879m
117520.000	300	R=50.000m L=4.580	R=1282.664m L=60.000m	451.046	449.847	-0.750	450.372	449.623	
117540.000	300	R=50.000m L=4.580	R=1282.664m L=60.000m	451.106	449.739	-0.466	450.378	449.913	Chainage=117543.837m Level=449.913m
117560.000	300	R=50.000m L=4.580	R=1282.664m L=60.000m	451.545	450.132	-0.621	450.501	449.879	Chainage=117575.797m Level=449.846m
117580.000	300	R=50.000m L=4.580	R=1282.664m L=60.000m	452.299	450.010	-0.473	450.317	449.845	
117600.000	300	R=50.000m L=4.580	R=1282.664m L=60.000m	453.272	450.367	-0.327	450.393	450.066	Chainage=117635.797m Level=451.390m
117620.000	300	R=50.000m L=4.580	R=1282.664m L=60.000m	454.041	450.900	-0.845	451.504	450.659	RECON. RCC BOX CUL. (1.5X1.5)
117640.000	300	R=50.000m L=4.580	R=1282.664m L=60.000m	459.970	451.961	-3.341	454.956	451.616	Chainage=117697.278m Level=454.686m
117660.000	300	R=50.000m L=4.580	R=1282.664m L=60.000m	454.645	452.954	-0.738	453.425	452.688	
117680.000	300	R=50.000m L=4.580	R=1282.664m L=60.000m	455.336	453.760	-0.895	454.655	453.760	Chainage=117757.278m Level=456.712m
117700.000	300	R=50.000m L=4.580	R=1282.664m L=60.000m	455.875	455.175	-2.344	457.173	454.830	Chainage=117797.000m Level=457.264m
117720.000	300	R=50.000m L=4.580	R=1282.664m L=60.000m	456.399	456.266	-2.019	457.752	455.734	
117740.000	300	R=50.000m L=4.580	R=1282.664m L=60.000m	456.959	456.918	-1.152	457.524	456.373	Chainage=117857.000m Level=459.403m
117760.000	300	R=50.000m L=4.580	R=1282.664m L=60.000m	457.597	457.164	-0.609	457.358	456.750	
117780.000	300	R=50.000m L=4.580	R=1282.664m L=60.000m	458.213	457.594	-0.685	457.712	457.028	
117800.000	300	R=50.000m L=4.580	R=1282.664m L=60.000m	458.582	458.018	-0.526	457.834	457.309	
117820.000	300	R=50.000m L=4.580	R=1282.664m L=60.000m	459.315	458.416	-0.195	457.970	457.775	
117840.000	300	R=50.000m L=4.580	R=1282.664m L=60.000m	460.304	459.228	-0.976	459.508	458.532	
117860.000	300	R=50.000m L=4.580	R=1282.664m L=60.000m	461.210	460.555	-1.368	460.943	459.575	
117880.000	300	R=50.000m L=4.580	R=1282.664m L=60.000m	462.304	461.890	-1.204	461.926	460.723	
117900.000	300	R=50.000m L=4.580	R=1282.664m L=60.000m	463.199	462.819	-1.136	463.007	461.870	
117920.000	300	R=50.000m L=4.580	R=1282.664m L=60.000m	464.331	463.967	-1.018	464.036	463.018	
117940.000	300	R=50.000m L=4.580	R=1282.664m L=60.000m	465.632	465.000	-0.934	465.100	464.166	
117960.000	300	R=50.000m L=4.580	R=1282.664m L=60.000m	466.620	466.004	-0.778	466.092	465.314	
117980.000	300	R=50.000m L=4.580	R=1282.664m L=60.000m	467.584	466.825	-0.335	466.797	466.462	
118000.000	300	R=50.000m L=4.580	R=1282.664m L=60.000m	468.808	467.811	-0.545	468.154	467.610	
118020.000	300	R=50.000m L=4.580	R=1282.664m L=60.000m	470.364	468.885	-0.469	469.226	468.757	

Revisions

Rev.	Date	Description	Drawn	Checked	Approved
15					
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Legend :-

- Existing Road
- Proposed Road
- RDW
- Boundary wall
- Building/Shop
- Culvert+ Bridge
- Telephone Pole
- Tree
- Electric post
- Handpump
- Kilometer stone
- T.B.M.

Client : NATIONAL HIGHWAY AND INFRASTRUCTURE DEVELOPMENT CORPORATION LIMITED

Project : CONSULTANCY SERVICES FOR DETAILED ENGINEERING / DETAILED PROJECT PREPARATION FOR UPGRADEATION OF RANKOR-NONGHYLLAM-MAHESHKHOLA-BAGHMARA ROAD TO 2-LANE UNDER SARDP-N 'PHASE-A' IN MEGHALAYA

Consultant: HOLTEC CONSULTING PRIVATE LIMITED
 HOLTEC CENTRE, A BLOCK, SUSHANT LOK, GURGAON-122001 HARYANA, INDIA
 PHONE : 0124-2385095, 23885096, FAX 0124-2385114, 2385116

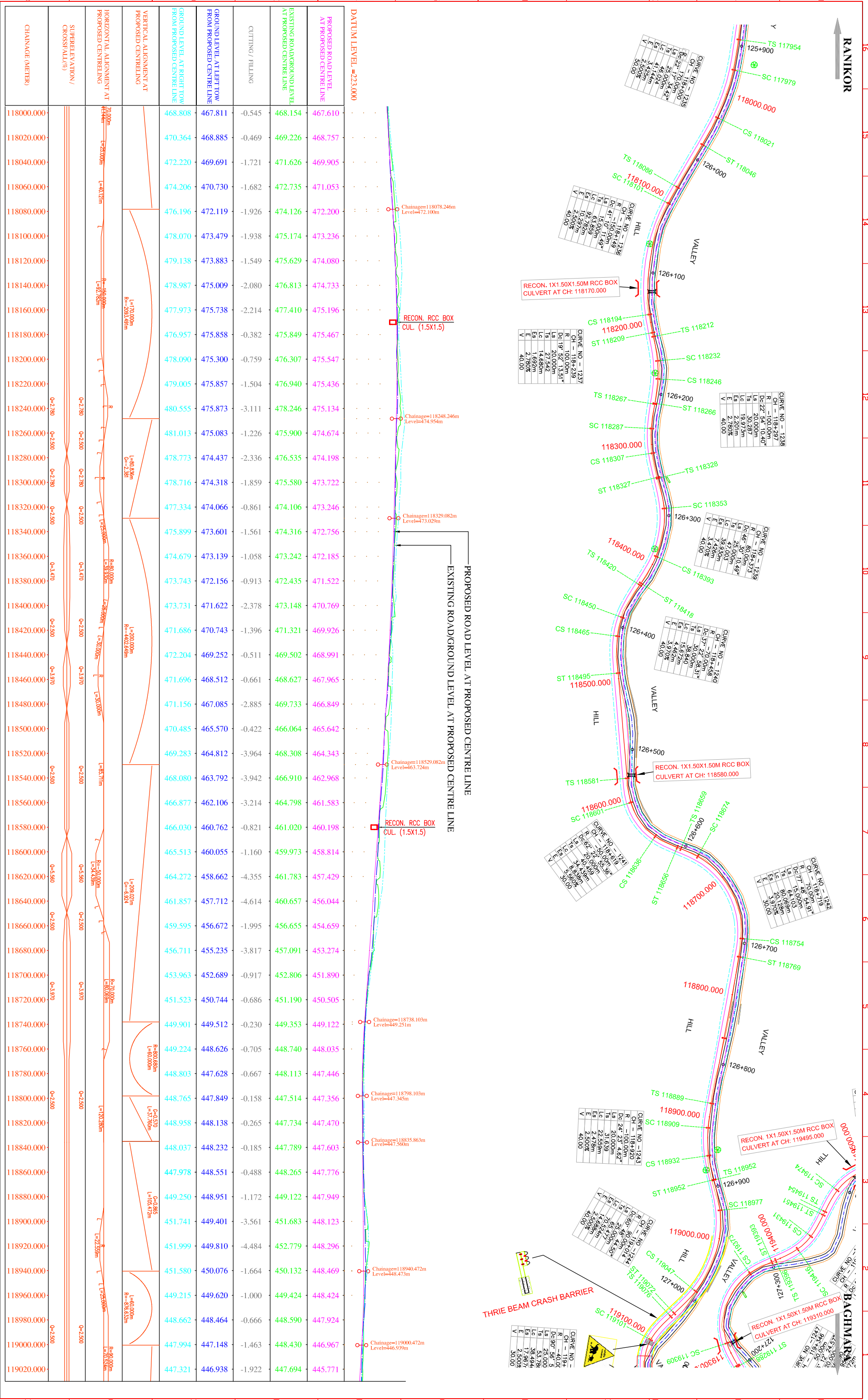
Designed: SA
 Checked: JIG
 Approved: JIG

Scale: HOR-1:2850
 VER-1:725

Date: MAR. 2019

Drawing No.: HOL/RMB/PPR/10558/PP-118
 Title: ALIGNMENT PLAN & PROFILE OF SH-4 KM 117.000 TO 118.000

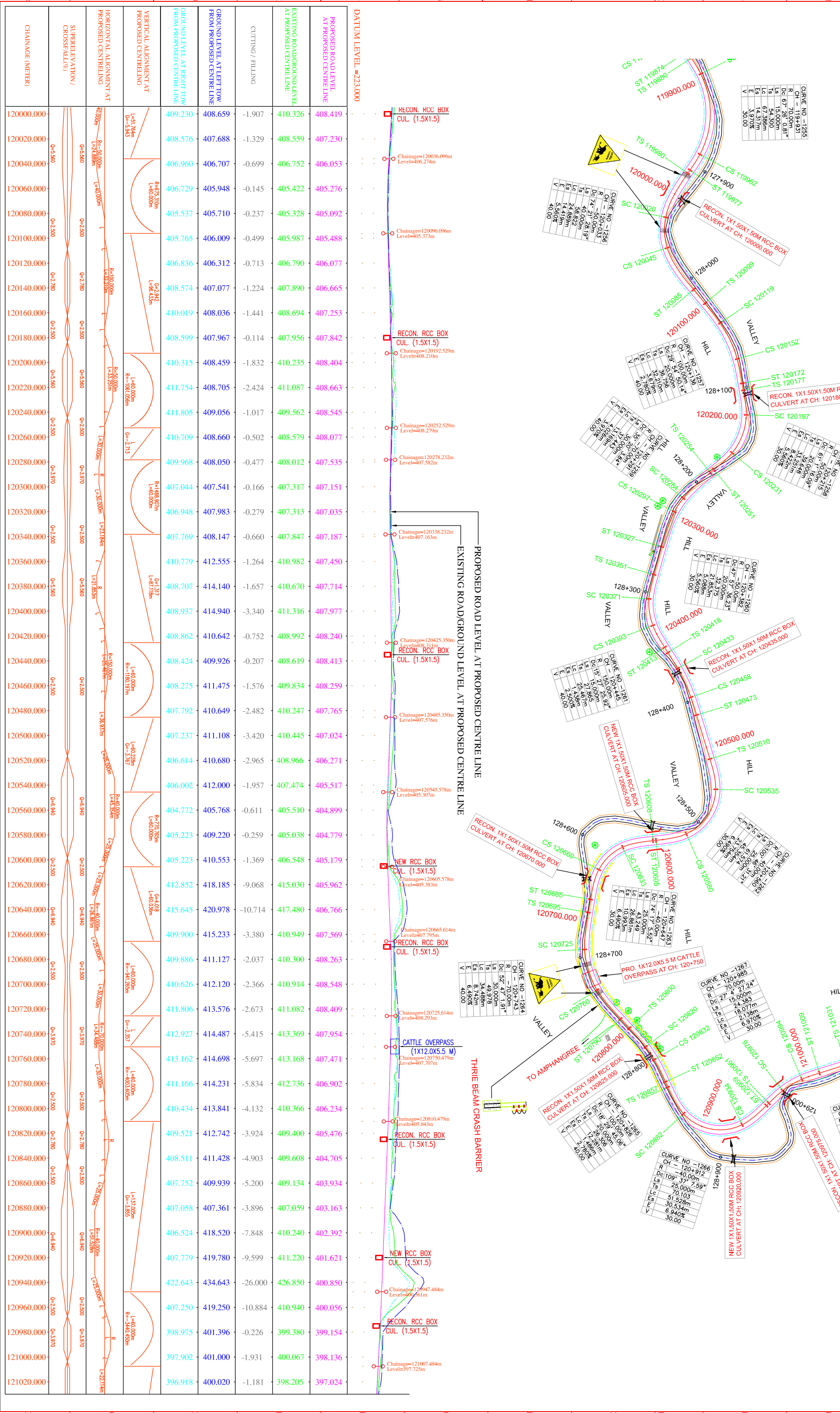
Rev. 0
 Sheet A3



Rev.	Date	Description	Drawn	Checked	Approved

Legend :-	Telephone Pole	Existing Road	Proposed Road	RDW	Boundary wall	Building/Shop	Culvert/Bridge	T.B.M.

Client :	NATIONAL HIGHWAY AND INFRASTRUCTURE DEVELOPMENT CORPORATION LIMITED
Project :	CONSULTANCY SERVICES FOR DETAILED ENGINEERING / DETAILED PROJECT PREPARATION FOR UPGRADATION OF RANKOR-NONGHYLLAM-MAHESKHOLA-BAGHMARA ROAD TO 2-LANE UNDER SARDP-NE "PHASE-A" IN MEGHALAYA
Consultant:	HOLTEC CONSULTING PRIVATE LIMITED HOLTEC CENTRE, A BLOCK, SUSHANT LOK, GURGAON-122001 HARYANA, INDIA PHONE : 0124-2385095, 23880596, FAX 0124-2385114, 2385116
Designed	SA
Checked	JIG
Approved	JIG
Date	MAR. 2019
Scale	HOR-1:2850 VER-1:725
Drawing No. :	HOL/RMB/PPR/10558/PP-119
Rev.	0
Sheet	A3



CHANGAGE (METER)	SUPERELEVATION/ CROSSFALL(%)	HORIZONTAL ALIGNMENT AT PROPOSED CENTRELINE	VERTICAL ALIGNMENT AT PROPOSED CENTRELINE	GROUND LEVEL AT RIGHT TOW FROM PROPOSED CENTRELINE	GROUND LEVEL AT LEFT TOW FROM PROPOSED CENTRELINE	CUTTING/ FILLING	EXISTING ROAD/GROUND LEVEL AT PROPOSED CENTRELINE	PROPOSED ROAD LEVEL AT PROPOSED CENTRELINE	DATUM LEVEL =223.000
120000.000								408.419	
120020.000								407.230	
120040.000								406.053	
120060.000								405.276	
120080.000								405.092	
120100.000								405.488	
120120.000								406.077	
120140.000								407.253	
120160.000								407.842	
120180.000								408.404	
120200.000								411.087	
120220.000								409.562	
120240.000								408.077	
120260.000								407.535	
120280.000								407.151	
120300.000								407.035	
120320.000								407.187	
120340.000								410.982	
120360.000								407.714	
120380.000								414.940	
120400.000								411.316	
120420.000								408.240	
120440.000								408.413	
120460.000								409.834	
120480.000								410.247	
120500.000								407.024	
120520.000								408.966	
120540.000								405.517	
120560.000								404.899	
120580.000								405.038	
120600.000								405.179	
120620.000								415.030	
120640.000								417.480	
120660.000								407.569	
120680.000								410.300	
120700.000								410.914	
120720.000								411.082	
120740.000								413.369	
120760.000								407.954	
120780.000								413.168	
120800.000								412.736	
120820.000								410.366	
120840.000								406.234	
120860.000								409.400	
120880.000								412.742	
120900.000								411.220	
120920.000								412.643	
120940.000								434.643	
120960.000								419.250	
120980.000								401.396	
121000.000								401.000	
121020.000								398.205	

Revisions

Rev.	Date	Description	Drawn	Checked	Approved

Legend :-

- Existing Road
- Proposed Road
- Telephone Pole
- Tree
- Electric post
- Handpump
- Kilometer stone
- T.B.M.

Client : NATIONAL HIGHWAY AND INFRASTRUCTURE DEVELOPMENT CORPORATION LIMITED

Project : CONSULTANCY SERVICES FOR DETAILED ENGINEERING / DETAILED PROJECT PREPARATION FOR UPGRADEATION OF RANKOR-NONGHYLLAM-MAHESHKOLA-BAGHMARA ROAD TO 2-LANE UNDER SARDP-NE PHASE-A IN MEGHALAYA

Consultant: HOLTEC CONSULTING PRIVATE LIMITED
 HOLTEC CENTRE, A BLOCK, SUSHANT LOK, GURGAON-122001 HARYANA, INDIA
 PHONE : 0124-2395095, 2395096, FAX 0124-2395114, 2395116

Designed: SA
Checked: JIG
Scale: HOR-1:2850
 VER-1:725

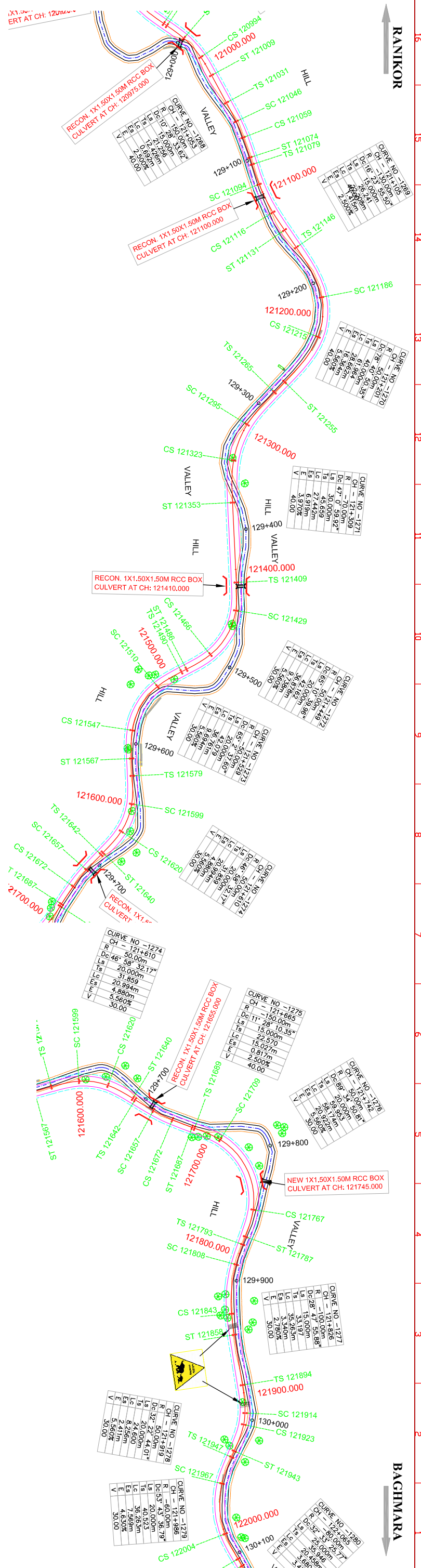
Approved: JIG
Date: MAR. 2019

Drawing No.: HOL/RMB/PPR/10558/PP-121
Title: ALIGNMENT PLAN & PROFILE OF SH-4 KM 120.000 TO 121.000

Rev.: 0
Sheet: A3

RANKOR

BAGHMARA



PROPOSED ROAD LEVEL AT PROPOSED CENTRE LINE
EXISTING ROAD/GROUND LEVEL AT PROPOSED CENTRE LINE

CHAINAGE (METERS)	PROPOSED ROAD LEVEL AT PROPOSED CENTRE LINE	EXISTING ROAD/GROUND LEVEL AT PROPOSED CENTRE LINE	CUTTING/ FILLING	GROUND LEVEL AT LEFT TOW FROM PROPOSED CENTRE LINE	GROUND LEVEL AT RIGHT TOW FROM PROPOSED CENTRE LINE	VERTICAL ALIGNMENT AT PROPOSED CENTRE LINE	HORIZONTAL ALIGNMENT AT PROPOSED CENTRE LINE	SUPERELEVATION/ CROSSFALL(%)	CHANGAGE (METERS)
121000.000	398.136	400.067	-1.931	397.902	401.000				121000.000
121020.000	397.024	398.205	-1.181	396.918	400.020				121020.000
121040.000	395.904	396.334	-0.430	395.652	396.514				121040.000
121060.000	394.784	394.923	-0.139	394.872	396.091				121060.000
121080.000	393.665	394.805	-1.140	393.930	396.117				121080.000
121100.000	392.545	392.795	-0.250	392.941	394.981				121100.000
121120.000	391.425	392.497	-1.073	391.784	393.962				121120.000
121140.000	390.293	393.368	-3.075	390.825	392.909				121140.000
121160.000	389.083	391.122	-2.039	389.194	391.839				121160.000
121180.000	387.783	388.988	-1.206	387.638	390.175				121180.000
121200.000	386.405	387.276	-0.871	386.258	387.694				121200.000
121220.000	385.017	385.298	-0.282	384.907	385.355				121220.000
121240.000	383.629	383.923	-0.294	383.391	383.740				121240.000
121260.000	382.241	382.906	-0.665	382.650	385.035				121260.000
121280.000	380.853	381.856	-1.003	381.236	386.593				121280.000
121300.000	379.465	382.172	-2.708	380.492	385.475				121300.000
121320.000	378.077	380.927	-2.850	378.908	383.192				121320.000
121340.000	376.700	377.180	-0.479	377.296	381.047				121340.000
121360.000	375.473	375.465	0.009	376.133	375.945				121360.000
121380.000	374.434	375.115	-0.681	375.304	374.907				121380.000
121400.000	373.570	374.971	-1.401	374.566	374.987				121400.000
121420.000	372.745	374.401	-1.655	374.458	375.074				121420.000
121440.000	371.920	374.613	-2.694	374.168	373.608				121440.000
121460.000	371.095	376.268	-5.174	378.338	374.271				121460.000
121480.000	370.270	381.350	-4.357	385.652	377.910				121480.000
121500.000	369.444	371.752	-2.307	375.700	370.900				121500.000
121520.000	368.635	369.360	-0.725	371.957	369.226				121520.000
121540.000	368.333	368.274	0.058	371.537	368.814				121540.000
121560.000	368.768	369.557	-0.789	372.337	369.610				121560.000
121580.000	369.926	371.085	-1.159	370.749	370.935				121580.000
121600.000	371.314	374.660	-1.823	379.917	372.513				121600.000
121620.000	372.702	378.660	-3.942	381.297	373.890				121620.000
121640.000	374.091	376.940	-2.011	382.807	375.396				121640.000
121660.000	375.479	377.127	-1.649	376.974	376.387				121660.000
121680.000	376.867	378.034	-1.166	379.889	377.419				121680.000
121700.000	378.255	380.497	-2.242	384.055	378.879				121700.000
121720.000	379.644	392.620	-6.829	401.007	388.241				121720.000
121740.000	381.032	391.240	-4.014	399.233	386.407				121740.000
121760.000	382.420	383.721	-1.300	384.510	382.823				121760.000
121780.000	383.804	384.454	-0.651	384.961	383.906				121780.000
121800.000	384.857	385.239	-0.382	384.922	383.785				121800.000
121820.000	385.385	386.109	-0.723	386.572	385.844				121820.000
121840.000	385.393	386.260	-0.866	387.563	385.801				121840.000
121860.000	385.206	385.676	-0.470	388.998	385.569				121860.000
121880.000	385.067	385.179	-0.112	388.458	385.026				121880.000
121900.000	385.165	385.394	-0.228	388.928	385.505				121900.000
121920.000	385.521	386.035	-0.514	386.084	386.098				121920.000
121940.000	386.084	386.279	-0.194	386.879	386.349				121940.000
121960.000	386.667	387.211	-0.545	388.552	386.371				121960.000
121980.000	387.250	387.433	-0.183	389.322	387.137				121980.000
122000.000	387.786	388.090	-0.304	389.862	387.683				122000.000
122020.000	387.963	389.411	-1.449	389.465	388.756				122020.000

Revisions

Rev.	Date	Description	Drawn	Checked	Approved
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Legend :-

- Existing Road
- Proposed Road
- Telephone Pole
- Tree
- Electric post
- Handpump
- Kilometer stone
- T.B.M.
- Boundary wall
- Building/Shop
- Culvert/Bridge

Client : NATIONAL HIGHWAY AND INFRASTRUCTURE DEVELOPMENT CORPORATION LIMITED

Project : CONSULTANCY SERVICES FOR DETAILED ENGINEERING / DETAILED PROJECT PREPARATION FOR UPGRADATION OF RANKOR-NONGHYLLAM-MAHESKHOLA-BAGHMARA ROAD TO 2-LANE UNDER SARDP-NE "PHASE-A" IN MEGHALAYA

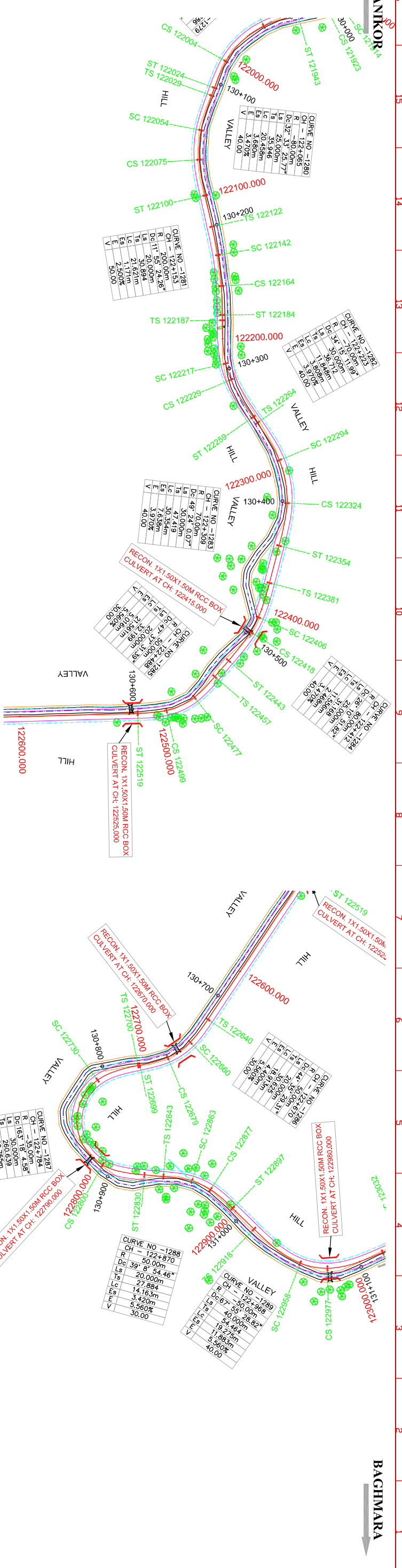
Consultant : HOLTEC CONSULTING PRIVATE LIMITED
HOLTEC CENTRE, A BLOCK, SUSHANT LOK, GURGAON-122001 HARYANA, INDIA
PHONE : 0124-2385095, 2385096, FAX 0124-2385114, 2385116

Designed : SA
Checked : JIG
Approved : JIG

Scale : HOR-1:2850
VER-1:725

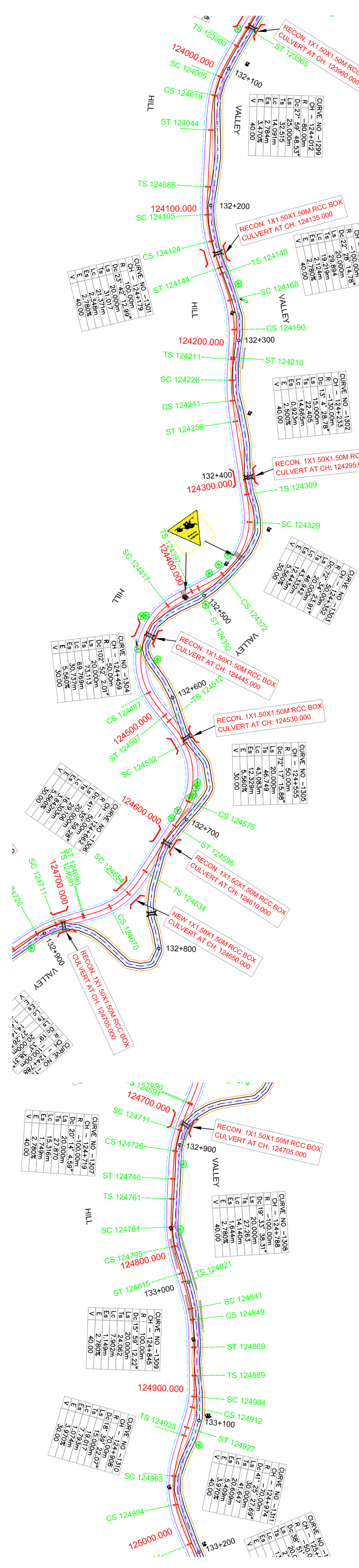
Date : MAR. 2019

Drawing No. : HOL/RMB/PPR/10558/PP-122
Rev. : 0
Sheet : A3



CHANGAGE (METER)	HORIZONTAL ALIGNMENT AT PROPOSED CENTRELINE		VERTICAL ALIGNMENT AT PROPOSED CENTRELINE		GROUND LEVEL AT RIGHT TOW FROM PROPOSED CENTRELINE	GROUND LEVEL AT LEFT TOW FROM PROPOSED CENTRELINE	CUTTING / FILLING	EXISTING ROAD/GROUND LEVEL AT PROPOSED CENTRE LINE	PROPOSED ROAD LEVEL AT PROPOSED CENTRELINE	DATUM LEVEL = 223.000
	Super Elevation / Cross Fall (%)	Change (m)	Chainage (m)	Level (m)						
122000.000	0-2.500	L=220.000m	L=60.000m	R=-94.627m	389.862	387.683	-0.304	388.090	387.786	
122020.000	0-2.500	L=220.000m	L=60.000m	R=-94.627m	389.465	388.756	-1.449	389.411	387.963	
122040.000	0-2.500	L=220.000m	L=60.000m	R=-94.627m	389.088	388.433	-1.352	389.072	387.720	
122060.000	0-2.500	L=220.000m	L=60.000m	R=-94.627m	388.529	387.915	-1.754	388.860	387.105	
122080.000	0-2.500	L=220.000m	L=60.000m	R=-94.627m	388.079	387.586	-1.500	387.930	386.431	
122100.000	0-2.500	L=220.000m	L=60.000m	R=-94.627m	387.835	389.517	-0.850	386.607	385.757	
122120.000	0-2.500	L=220.000m	L=60.000m	R=-94.627m	386.474	386.141	-0.661	385.743	385.082	
122140.000	0-2.500	L=220.000m	L=60.000m	R=-94.627m	385.046	384.453	-0.239	384.646	384.408	
122160.000	0-2.500	L=220.000m	L=60.000m	R=-94.627m	383.806	383.827	-0.361	384.094	383.734	
122180.000	0-2.500	L=220.000m	L=60.000m	R=-94.627m	382.857	385.269	-0.135	383.195	383.059	
122200.000	0-2.500	L=220.000m	L=60.000m	R=-94.627m	382.171	383.431	-0.974	383.359	382.385	
122220.000	0-2.500	L=220.000m	L=60.000m	R=-94.627m	384.301	383.057	-1.357	383.067	381.711	
122240.000	0-2.500	L=220.000m	L=60.000m	R=-94.627m	382.720	382.029	-1.084	382.120	381.036	
122260.000	0-2.500	L=220.000m	L=60.000m	R=-94.627m	381.460	381.983	-0.714	381.075	380.362	
122280.000	0-2.500	L=220.000m	L=60.000m	R=-94.627m	379.568	381.886	-0.653	380.340	379.688	
122300.000	0-2.500	L=220.000m	L=60.000m	R=-94.627m	379.148	380.108	-0.798	379.812	379.013	
122320.000	0-2.500	L=220.000m	L=60.000m	R=-94.627m	378.709	380.890	-0.108	378.676	378.567	
122340.000	0-2.500	L=220.000m	L=60.000m	R=-94.627m	378.867	380.852	-0.133	378.838	378.706	
122360.000	0-2.500	L=220.000m	L=60.000m	R=-94.627m	380.807	386.391	-2.802	382.790	379.433	
122380.000	0-2.500	L=220.000m	L=60.000m	R=-94.627m	384.356	391.767	-4.186	387.030	380.522	
122400.000	0-2.500	L=220.000m	L=60.000m	R=-94.627m	382.995	390.397	-2.460	384.074	381.614	
122420.000	0-2.500	L=220.000m	L=60.000m	R=-94.627m	383.928	387.644	-1.350	384.057	382.707	
122440.000	0-2.500	L=220.000m	L=60.000m	R=-94.627m	385.004	389.794	-3.720	387.520	383.799	
122460.000	0-2.500	L=220.000m	L=60.000m	R=-94.627m	386.293	391.241	-4.177	389.069	384.892	
122480.000	0-2.500	L=220.000m	L=60.000m	R=-94.627m	387.058	389.830	-1.511	387.495	385.984	
122500.000	0-2.500	L=220.000m	L=60.000m	R=-94.627m	388.482	392.642	-3.645	390.722	387.077	
122520.000	0-2.500	L=220.000m	L=60.000m	R=-94.627m	389.370	391.798	-1.660	389.829	388.169	
122540.000	0-2.500	L=220.000m	L=60.000m	R=-94.627m	389.610	391.728	-1.667	390.929	389.262	
122560.000	0-2.500	L=220.000m	L=60.000m	R=-94.627m	390.812	392.025	-1.540	391.895	390.354	
122580.000	0-2.500	L=220.000m	L=60.000m	R=-94.627m	391.857	391.760	-0.630	392.078	391.447	
122600.000	0-2.500	L=220.000m	L=60.000m	R=-94.627m	392.597	394.059	-0.227	392.767	392.540	
122620.000	0-2.500	L=220.000m	L=60.000m	R=-94.627m	394.180	397.305	-1.968	395.600	393.632	
122640.000	0-2.500	L=220.000m	L=60.000m	R=-94.627m	395.101	400.687	-2.669	397.393	394.725	
122660.000	0-2.500	L=220.000m	L=60.000m	R=-94.627m	395.956	403.671	-1.151	396.968	395.817	
122680.000	0-2.500	L=220.000m	L=60.000m	R=-94.627m	395.912	405.010	-0.064	396.974	396.910	
122700.000	0-2.500	L=220.000m	L=60.000m	R=-94.627m	397.865	405.271	-2.221	400.223	398.002	
122720.000	0-2.500	L=220.000m	L=60.000m	R=-94.627m	399.291	404.652	-2.362	401.457	399.095	
122740.000	0-2.500	L=220.000m	L=60.000m	R=-94.627m	400.536	405.370	-1.906	402.093	400.187	
122760.000	0-2.500	L=220.000m	L=60.000m	R=-94.627m	401.619	407.622	-3.708	404.988	401.280	
122780.000	0-2.500	L=220.000m	L=60.000m	R=-94.627m	403.118	405.606	-1.554	403.927	402.372	
122800.000	0-2.500	L=220.000m	L=60.000m	R=-94.627m	403.753	406.770	-1.369	404.835	403.465	
122820.000	0-2.500	L=220.000m	L=60.000m	R=-94.627m	405.602	409.028	-2.886	407.443	404.558	
122840.000	0-2.500	L=220.000m	L=60.000m	R=-94.627m	406.008	408.072	-1.209	406.858	405.648	
122860.000	0-2.500	L=220.000m	L=60.000m	R=-94.627m	406.713	407.703	-0.453	406.933	406.480	
122880.000	0-2.500	L=220.000m	L=60.000m	R=-94.627m	407.237	407.221	-0.251	407.116	406.866	
122900.000	0-2.500	L=220.000m	L=60.000m	R=-94.627m	407.181	407.300	-0.652	407.460	406.807	
122920.000	0-2.500	L=220.000m	L=60.000m	R=-94.627m	406.764	406.859	-0.596	406.900	406.304	
122940.000	0-2.500	L=220.000m	L=60.000m	R=-94.627m	407.196	405.941	-0.639	405.995	405.357	
122960.000	0-2.500	L=220.000m	L=60.000m	R=-94.627m	406.043	404.754	-0.683	404.908	404.225	
122980.000	0-2.500	L=220.000m	L=60.000m	R=-94.627m	404.167	403.651	-0.391	403.484	403.093	
123000.000	0-2.500	L=220.000m	L=60.000m	R=-94.627m	403.867	402.900	-0.779	402.739	401.961	
123020.000	0-2.500	L=220.000m	L=60.000m	R=-94.627m	403.140	401.930	-1.216	402.044	400.828	

Revisions		Legend :-		Client :		Consultant :		Title :	
Rev.	Date	Description	Drawn	Checked	Approved	Existing Road	Proposed Road	Telephone Pole	Tree
						RDW	Electric post	EP	Handpump
						Boundary wall	Handpump	HP	Kilometer stone
						Building/Shop	Kilometer stone	KM	T.B.M.
						Culvert/Bridge	T.B.M.		
					Project :				
					CONSULTANCY SERVICES FOR DETAILED ENGINEERING / DETAILED PROJECT PREPARATION FOR UPGRADEATION OF RANKOR-NONGHYLLAM-MAHESKHOLA-BAGHMARA ROAD TO 2-LANE UNDER SARDP-N.E "PHASE-A" IN MEGHALAYA				
					National Highway and Infrastructure Development Corporation Limited				
					Holtec Consulting Private Limited				
					HOLTEC CENTRE, A BLOCK, SUSHANT LOK, GURGAON-122001 HARYANA, INDIA PHONE : 0124-2385095, 23880596, FAX 0124-2385114, 2385116				
					Designed SA Checked JIG Approved JIG				
					Scale HOR-1:2850 VER-1:725				
					Date MAR. 2019				
					Drawing No. : HOL/RMB/PPR/10558/PP-123				
					CAD File Ref. : HOL/RMB/PPR/10558/PP-123				
					Rev. 0				
					Sheet A3				



CHAINAGE (METERS)	HORIZONTAL ALIGNMENT AT PROPOSED CENTRELINE		VERTICAL ALIGNMENT AT PROPOSED CENTRELINE	GROUND LEVEL AT RIGHT TOW FROM PROPOSED CENTRELINE	GROUND LEVEL AT LEFT TOW FROM PROPOSED CENTRELINE	CUTTING / FILLING	EXISTING ROAD/GROUND LEVEL AT PROPOSED CENTRE LINE	PROPOSED ROAD LEVEL AT PROPOSED CENTRELINE	DATUM LEVEL = 223.000
	Left	Right							
124000.000	382.934	381.357	-0.727	382.030	381.303				
124020.000	382.857	380.324	-0.848	381.361	380.513				
124040.000	382.927	379.759	-0.704	380.428	379.724				
124060.000	384.357	378.923	-2.316	381.250	378.935				
124080.000	381.502	378.264	-1.695	379.840	378.145				
124100.000	378.371	377.276	-0.260	377.615	377.356				
124120.000	378.666	376.544	-0.751	377.274	376.523				
124140.000	383.498	376.437	-1.710	377.209	375.499				
124160.000	382.496	376.377	-2.201	376.473	374.273				
124180.000	378.717	375.118	-2.778	375.665	372.887				
124200.000	375.943	373.613	-2.466	373.955	371.488				
124220.000	373.390	371.592	-2.454	372.545	370.090				
124240.000	372.230	371.230	-3.423	372.114	368.692				
124260.000	371.371	370.148	-3.531	370.825	367.294				
124280.000	370.355	368.838	-3.564	369.459	365.895				
124300.000	369.178	366.807	-3.583	368.079	364.497				
124320.000	367.941	366.562	-3.762	366.861	363.099				
124340.000	366.881	365.810	-4.701	366.402	361.700				
124360.000	365.745	364.417	-4.314	364.617	360.302				
124380.000	364.523	363.457	-5.600	364.503	358.904				
124400.000	363.517	362.124	-5.510	363.016	357.506				
124420.000	363.749	360.929	-6.307	362.414	356.107				
124440.000	361.271	359.929	-5.782	360.491	354.709				
124460.000	358.809	358.971	-5.947	359.258	353.311				
124480.000	356.881	358.298	-6.157	358.070	351.913				
124500.000	357.410	357.079	-7.428	357.943	350.514				
124520.000	357.442	355.844	-7.097	356.214	349.116				
124540.000	366.260	354.262	-9.408	357.125	347.718				
124560.000	364.590	352.592	-13.107	359.426	346.320				
124580.000	363.420	351.423	-10.316	355.237	344.921				
124600.000	354.828	349.970	-8.163	351.686	343.523				
124620.000	350.787	348.823	-7.631	349.755	342.125				
124640.000	356.885	347.247	-7.069	350.340	340.727				
124660.000	360.045	354.020	-5.694	359.910	339.328				
124680.000	349.400	343.364	-3.544	345.980	337.930				
124700.000	338.461	337.936	-1.612	338.144	336.532				
124720.000	337.214	335.953	-1.239	336.373	335.134				
124740.000	335.746	334.778	-1.399	335.135	333.735				
124760.000	334.157	333.006	-1.464	333.802	332.337				
124780.000	331.630	331.250	-0.857	331.795	330.939				
124800.000	331.160	329.189	-0.075	329.616	329.541				
124820.000	329.260	328.378	-0.232	328.407	328.176				
124840.000	329.150	327.698	-0.220	327.572	327.352				
124860.000	329.308	327.020	0.086	327.155	327.240				
124880.000	329.645	327.522	-0.614	328.422	327.808				
124900.000	330.590	328.935	-0.618	329.163	328.546				
124920.000	331.156	330.222	-1.684	330.968	329.284				
124940.000	331.694	331.084	-2.593	332.615	330.023				
124960.000	332.617	331.583	-1.134	331.896	330.761				
124980.000	333.008	332.306	-1.349	332.848	331.499				
125000.000	334.313	333.161	-1.789	334.027	332.238				
125020.000	335.603	334.027	-2.108	335.084	332.976				

Revisions

Rev.	Date	Description	Drawn	Checked	Approved
15					
14					
13					
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11					
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Legend :-

Existing Road	Telephone Pole
Proposed Road	Tree
RDW	Electric post
Boundary wall	Handpump
Building/Shop	Kilometer stone
Culvert/Bridge	T.B.M.

Client : NATIONAL HIGHWAY AND INFRASTRUCTURE DEVELOPMENT CORPORATION LIMITED

Project : CONSULTANCY SERVICES FOR DETAILED ENGINEERING / DETAILED PROJECT PREPARATION FOR UPGRADATION OF RANKIOR-NONGHYLLAM-MAHESHKOLA-BAGHMARA ROAD TO 2-LANE UNDER SARDP-NE "PHASE-A" IN MEGHALAYA

Consultant : HOLTEC CONSULTING PRIVATE LIMITED
 HOLTEC CENTRE, A BLOCK, SUSHANT LOK, GURGAON-122001 HARYANA, INDIA
 PHONE : 0124-2385095, 2385096, FAX 0124-2385114, 2385116

Scale : SA SVR

Checked : JIG

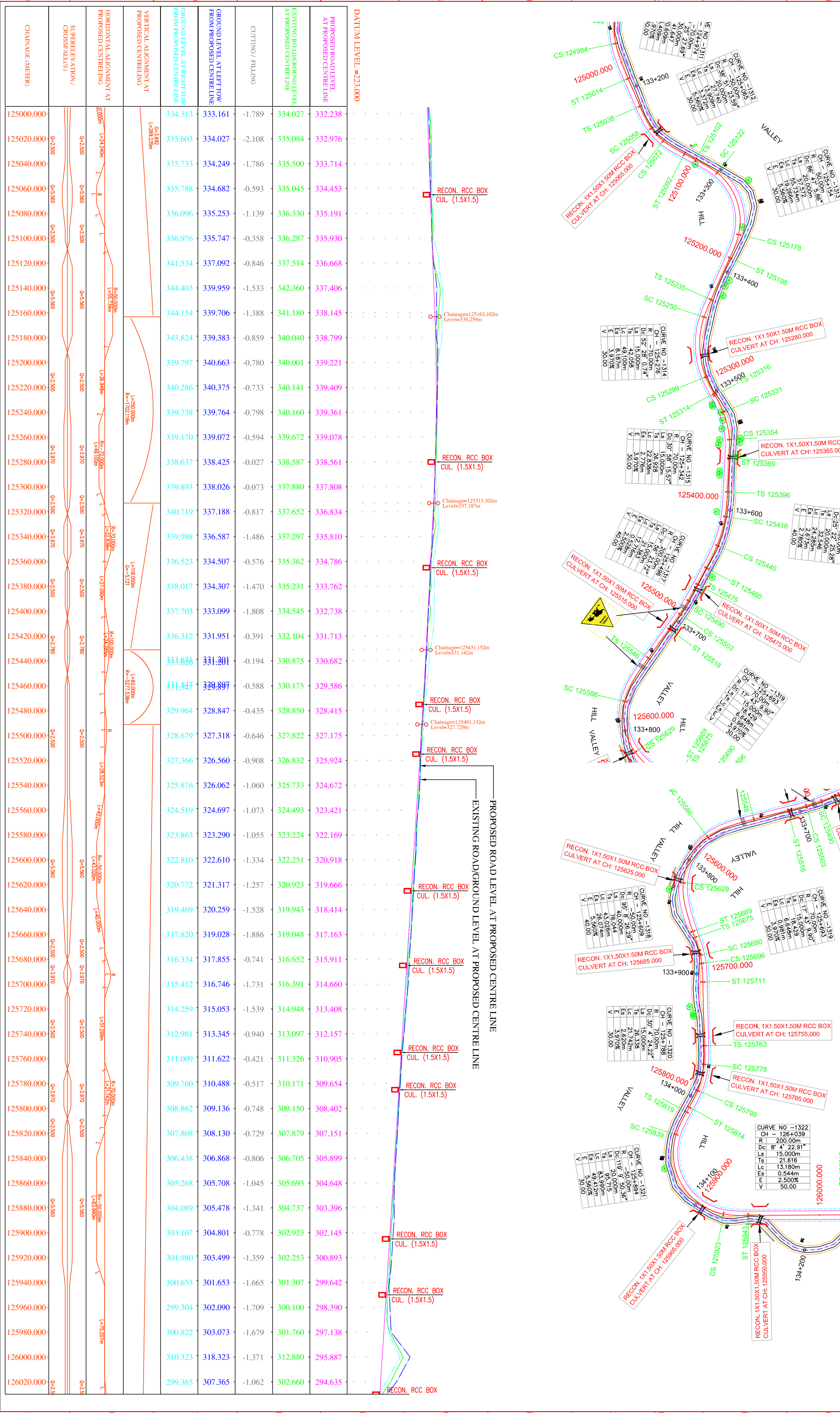
Approved : JIG

Date : MAR. 2019

Drawing No. : HOL/RMB/PPR/10558/PP-125

Rev. : 0

Sheet : A3

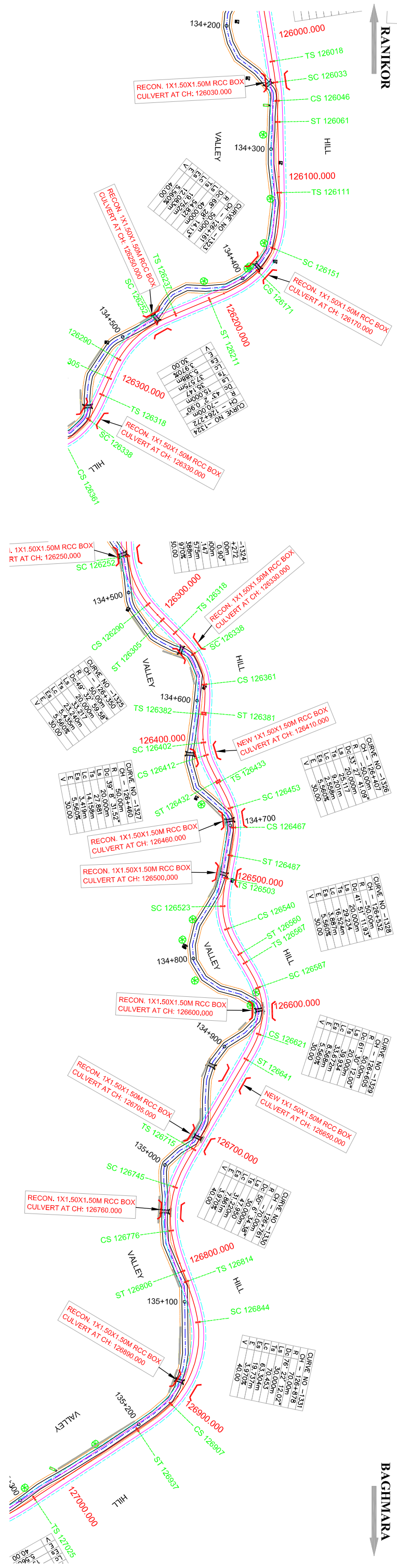


Rev.	Date	Description	Drawn	Checked	Approved
15					
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Revisions		Legend		Client		Consultant		Title	
Existing Road	Proposed Road	Telephone Pole	Tree	NATIONAL HIGHWAY AND INFRASTRUCTURE DEVELOPMENT CORPORATION LIMITED	HOLTEC CONSULTING PRIVATE LIMITED	Designed	Checked	ALIGNMENT PLAN & PROFILE OF SH-4	
RDW	Boundary wall	Electric post	Handpump	PROJECT PREPARATION FOR DETAILED ENGINEERING / DETAILED PROJECT PREPARATION FOR UPGRADATION OF RANKOR-NONGHYLLAM-MAHESHKHOLA-BAGHMARA ROAD TO 2-LANE UNDER SARDP-N 'PHASE-A' IN MEGHALAYA	HOLTEC CENTRE, A BLOCK, SUSHANT LOK, GURGAON-122001 HARYANA, INDIA PHONE : 0124-2385095, 23880596, FAX 0124-2385114, 2385116	SA	JIG	KM 125.000 TO 126.000	
Building/Shop	Kilometer stone	T.B.M.				SVR	JIG		
Culvert/Bridge						Scale	VER-1:125		
						Date	MAR. 2019		
						Drawing No.:	HOL/RMB/PPR/10558/PP-126		
						Rev.	0		
						Sheet	A3		

RANKOR

BAGHMARA



DATUM LEVEL = 223.000

CHANGAGE (METER)	SUPERELEVATION/ CROSSFALL(%)	HORIZONTAL ALIGNMENT AT PROPOSED CENTRELINE	VERTICAL ALIGNMENT AT PROPOSED CENTRELINE	GROUND LEVEL AT RIGHT TOW FROM PROPOSED CENTRELINE	GROUND LEVEL AT LEFT TOW FROM PROPOSED CENTRELINE	CUTTING/ FILLING	EXISTING ROAD/GROUND LEVEL AT PROPOSED CENTRE LINE	PROPOSED ROAD LEVEL AT PROPOSED CENTRELINE
126000.000				310.323	318.323	-1.371	312.880	295.887
126020.000				299.365	307.365	-1.062	302.660	294.635
126040.000				293.780	294.796	-0.561	293.944	293.384
126060.000				292.556	293.699	-1.270	293.403	292.132
126080.000				291.532	292.423	-1.219	292.100	290.881
126100.000				290.182	291.068	-0.653	290.282	289.629
126120.000				288.554	289.635	-0.386	288.764	288.378
126140.000				287.598	288.489	-0.851	287.978	287.126
126160.000				286.301	286.702	-0.827	286.702	285.875
126180.000				285.182	285.248	-0.699	285.323	284.623
126200.000				284.044	283.818	-0.905	284.277	283.372
126220.000				283.190	291.190	-1.127	283.248	282.120
126240.000				284.050	292.050	-0.345	288.350	280.869
126260.000				279.646	279.739	-0.720	280.338	279.617
126280.000				278.522	287.553	-1.224	279.590	278.366
126300.000				277.875	286.903	-0.760	277.874	277.114
126320.000				275.852	284.893	-0.125	275.987	275.862
126340.000				274.733	275.908	-0.844	275.455	274.611
126360.000				273.607	274.555	-0.999	274.358	273.359
126380.000				272.493	274.890	-0.706	272.813	272.108
126400.000				271.229	273.630	-0.553	271.409	270.856
126420.000				270.286	272.690	-0.526	270.131	269.605
126440.000				269.335	269.234	-0.608	268.961	268.353
126460.000				267.918	267.745	-1.114	268.215	267.102
126480.000				267.123	266.661	-1.371	267.222	265.850
126500.000				266.222	266.024	-1.695	266.293	264.599
126520.000				265.098	267.910	-2.599	265.947	263.347
126540.000				270.659	276.659	-3.146	272.000	262.096
126560.000				273.604	279.604	-2.693	274.780	260.844
126580.000				268.167	274.167	-2.204	270.300	259.593
126600.000				258.677	258.577	-0.360	258.701	258.341
126620.000				257.756	265.260	-0.525	261.000	257.090
126640.000				264.137	271.637	-2.667	266.390	255.838
126660.000				263.235	270.735	-2.888	265.970	254.586
126680.000				256.761	264.650	-2.233	260.120	253.335
126700.000				252.721	254.597	-1.482	253.566	252.083
126720.000				252.665	262.650	-2.540	256.550	250.834
126740.000				251.448	261.450	-2.643	252.263	249.619
126760.000				249.180	250.537	-0.769	249.216	248.448
126780.000				247.869	249.579	-1.989	249.306	247.318
126800.000				245.929	247.763	-0.939	247.136	246.197
126820.000				245.095	245.948	-0.380	245.457	245.077
126840.000				244.946	248.586	-0.814	246.300	243.957
126860.000				244.212	247.545	-1.294	245.470	242.836
126880.000				242.031	245.667	-1.923	243.639	241.716
126900.000				240.976	242.168	-2.552	243.148	240.596
126920.000				239.609	243.074	-1.884	241.359	239.475
126940.000				237.993	240.677	-1.056	239.411	238.355
126960.000				237.041	239.297	-0.745	237.979	237.235
126980.000				236.505	239.059	-0.718	236.832	236.114
127000.000				235.603	238.822	-1.042	236.036	234.994
127020.000				234.527	237.523	-1.997	235.871	233.873

Revisions

Rev.	Date	Description	Drawn	Checked	Approved

Legend :-

- Existing Road
- Proposed Road
- Telephone Pole
- Tree
- Electric post
- Handpump
- Kilometer stone
- T.B.M.
- Building/Shop
- Boundary wall
- RDW
- Culvert/Bridge

Client : NATIONAL HIGHWAY AND INFRASTRUCTURE DEVELOPMENT CORPORATION LIMITED

Project : CONSULTANCY SERVICES FOR DETAILED ENGINEERING / DETAILED PROJECT PREPARATION FOR UPGRADATION OF RANKOR-NONGHYLLAM-MAHESHKHOLA-BAGHMARA ROAD TO 2-LANE UNDER SARDP-N-E PHASE-A IN MEGHALAYA

Consultant : HOLTEC CONSULTING PRIVATE LIMITED
 HOLTEC CENTRE, A BLOCK, SUSHANT LOK, GURGAON-122001 HARYANA, INDIA
 PHONE : 0124-2395095, 2395096, FAX 0124-2395114, 2395116

Scale : SA SVR

Version : HOR-1:2850 VER-1:725

Date : MAR. 2019

Approved : JIG

Checked : JIG

Designated : SA SVR

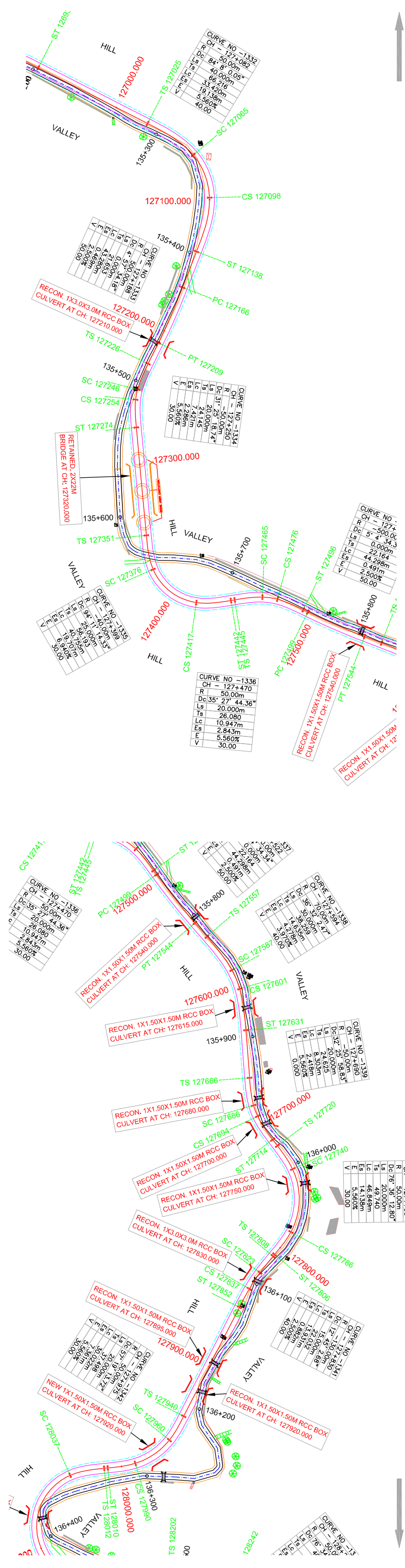
Drawn : JIG

Title : ALIGNMENT PLAN & PROFILE OF SH-4 KM 126.000 TO 127.000

Drawing No. : HOL/RMB/PPR/10558/PP-127

Rev. : 0

Sheet : A3



CHANGAGE (METERS)	SUPERELEVATION/ CROSSFALL(%)	HORIZONTAL ALIGNMENT AT PROPOSED CENTRELINE	VERTICAL ALIGNMENT AT PROPOSED CENTRELINE	GROUND LEVEL AT RIGHT TOW FROM PROPOSED CENTRELINE	GROUND LEVEL AT LEFT TOW FROM PROPOSED CENTRELINE	CUTTING/ FILLING	EXISTING ROAD/GROUND LEVEL AT PROPOSED CENTRE LINE	PROPOSED ROAD LEVEL AT PROPOSED CENTRELINE	DATUM LEVEL =233.000
127000.000				235.603	238.822	-1.042	236.036	234.994	
127020.000				234.527	237.523	-1.997	235.871	233.873	Chainage=127025.754m Level=233.551m
127040.000				233.252	235.133	-0.863	233.684	232.822	
127060.000				232.165	233.489	-0.274	232.303	232.029	
127080.000				231.912	237.130	-2.232	233.738	231.506	Chainage=127085.754m Level=231.405m
127100.000				232.553	237.767	-2.549	233.733	231.184	
127120.000				231.365	236.587	-2.853	233.727	230.874	
127140.000				230.819	233.439	-1.779	232.342	230.564	
127160.000				230.214	232.505	-0.393	230.647	230.254	Chainage=127163.233m Level=230.203m
127180.000				229.089	230.783	0.580	229.400	229.980	RECON. RCC BOX CUL. (3.0X3.0) Chainage=127223.233m Level=229.738m
127200.000				228.203	228.544	1.229	228.579	229.808	
127220.000				227.803	227.189	2.094	227.646	229.739	
127240.000				227.921	227.346	2.045	227.693	229.738	
127260.000				228.543	227.135	2.428	227.310	229.738	
127280.000				227.870	226.250	3.077	226.662	229.738	RETAINED BRIDGE TOTAL SPANS=44.00M
127300.000				227.785	225.186	3.584	226.154	229.738	Chainage=127362.121m Level=229.738m
127320.000				226.676	223.711	6.129	223.610	229.738	
127340.000				227.461	226.729	3.691	226.048	229.738	
127360.000				230.470	230.614	-0.880	230.618	229.738	Chainage=127362.121m Level=229.738m
127380.000				258.589	244.953	-4.694	250.230	229.826	
127400.000				264.200	252.200	-4.768	257.790	230.132	Chainage=127422.121m Level=230.727m
127420.000				265.170	253.169	-4.621	258.230	230.658	
127440.000				257.450	245.446	-4.343	249.450	231.316	
127460.000				247.380	235.382	-4.062	240.220	231.976	
127480.000				236.217	234.273	-3.452	236.086	232.635	
127500.000				235.392	234.683	-2.109	235.403	233.294	
127520.000				235.658	234.906	-1.882	235.835	233.954	Chainage=127536.345m Level=234.492m
127540.000				236.346	234.819	-0.464	235.074	234.610	RECON. RCC BOX CUL. (1.5X1.5)
127560.000				237.800	235.267	-1.562	236.709	235.147	Chainage=127596.345m Level=235.663m
127580.000				238.084	235.625	-2.429	237.934	235.504	RECON. RCC BOX CUL. (1.5X1.5)
127600.000				238.261	235.728	-1.861	237.546	235.685	RECON. RCC BOX CUL. (1.5X1.5)
127620.000				237.555	236.502	-0.375	236.180	235.806	
127640.000				237.211	236.861	-1.066	236.993	235.927	
127660.000				237.281	237.557	-1.933	237.980	236.048	
127680.000				237.135	236.659	-0.954	237.123	236.169	
127700.000				239.023	236.180	-0.249	236.539	236.290	
127720.000				239.262	236.075	-0.753	237.163	236.411	
127740.000				239.364	235.946	-1.982	238.514	236.532	Chainage=127740.276m Level=238.514m
127760.000				239.312	235.916	-1.632	238.227	236.594	RECON. RCC BOX CUL. (1.5X1.5)
127780.000				239.410	236.243	-1.602	238.139	236.537	Chainage=127800.276m Level=238.357m
127800.000				239.691	236.492	-1.654	238.013	236.360	
127820.000				240.070	236.301	-0.168	236.289	236.121	RECON. RCC BOX CUL. (3.0X3.0)
127840.000				240.068	236.218	-2.326	238.208	235.882	Chainage=127866.500m Level=235.566m
127860.000				239.770	236.121	-5.284	240.927	235.643	
127880.000				239.473	235.758	-3.416	238.860	235.445	
127900.000				239.175	235.355	-0.228	235.644	235.415	
127920.000				239.222	235.768	-0.394	235.957	235.564	Chainage=127926.500m Level=235.651m
127940.000				246.085	238.486	-3.791	239.642	235.850	NEW RCC BOX CUL. (1.5X1.5)
127960.000				263.207	255.612	-2.903	259.050	236.146	
127980.000				245.125	237.535	-0.906	240.230	236.441	RECON. RCC BOX CUL. (1.5X1.5)
128000.000				244.705	237.106	-0.677	239.840	236.737	
128020.000				248.867	241.272	-1.845	243.580	237.033	

Revisions

Rev.	Date	Description	Drawn	Checked	Approved

Legend :-

- Existing Road
- Proposed Road
- Telephone Pole
- Tree
- Electric post
- Handpump
- Kilometer stone
- T.B.M.
- Boundary wall
- Building/Shop
- Culvert/Bridge

Client : NATIONAL HIGHWAY AND INFRASTRUCTURE DEVELOPMENT CORPORATION LIMITED

Project : CONSULTANCY SERVICES FOR DETAILED ENGINEERING / DETAILED PROJECT PREPARATION FOR UPGRADEATION OF RANKOR-NONGHYLLAM-MAHESHKHOLA-BAGHMARA ROAD TO 2-LANE UNDER SARDP-NE "PHASE-A" IN MEGHALAYA

Consultant: HOLTEC CONSULTING PRIVATE LIMITED
HOLTEC CENTRE, A BLOCK, SUSHANT LOK, GURGAON-122001 HARYANA, INDIA
PHONE : 0124-2385095, 2385096, FAX 0124-2385114, 2385116

Designed: SA
Checked: JIG
Scale: HOR-1:2850
VER-1:725

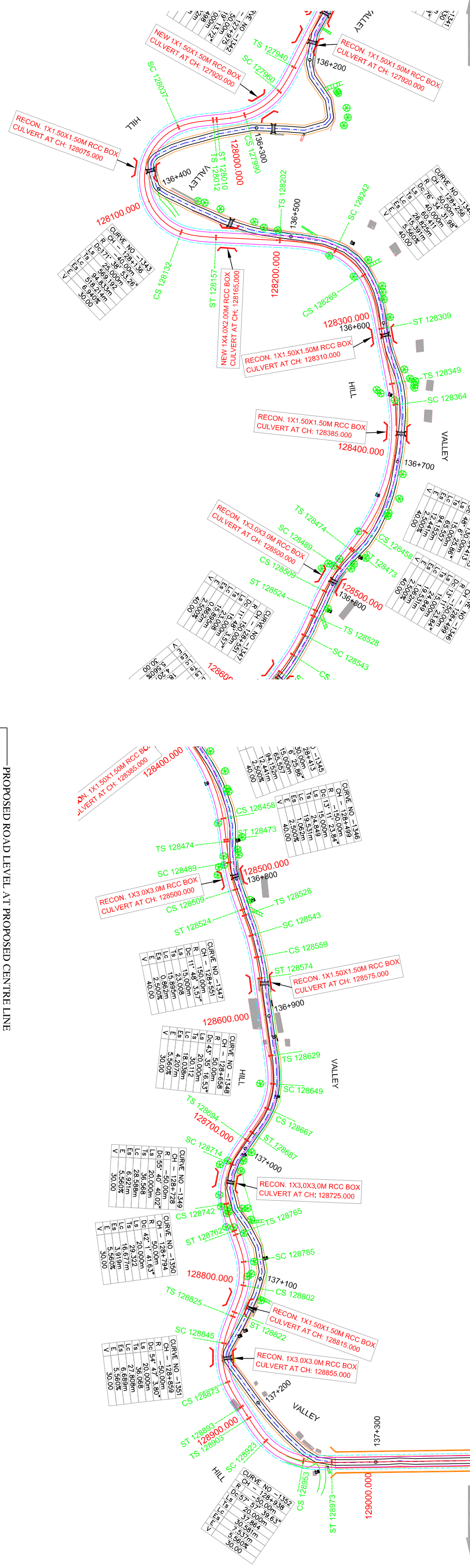
Approved: JIG
Date: MAR. 2019

Title : ALIGNMENT PLAN & PROFILE OF SH-4
KM 127.000 TO 128.000

Drawing No. : HOL/RMB/PPR/10558/PP-128
Rev.: 0
Sheet: A3

RANKOR

BAGHMARA



CHAINAGE (METERS)	HORIZONTAL ALIGNMENT AT PROPOSED CENTRELINE	VERTICAL ALIGNMENT AT PROPOSED CENTRELINE	GROUND LEVEL AT RIGHT TOW FROM PROPOSED CENTRELINE	GROUND LEVEL AT LEFT TOW FROM PROPOSED CENTRELINE	CUTTING/ FILLING	EXISTING ROAD/GROUND LEVEL AT PROPOSED CENTRE LINE	PROPOSED ROAD LEVEL AT PROPOSED CENTRELINE	DATUM LEVEL =233.000
128000.000			244.705	237.106	-0.677	239.840	236.737	
128020.000			248.867	241.272	-1.845	243.580	237.033	
128040.000			246.235	238.645	-0.934	241.120	237.328	
128060.000			238.100	237.126	-0.477	238.101	237.624	
128080.000			242.540	236.876	-0.274	239.000	237.919	
128100.000			243.537	237.930	-0.085	238.996	238.215	
128120.000			244.627	239.016	0.068	241.160	238.475	
128140.000			246.720	241.060	0.058	242.170	238.571	
128160.000			243.640	237.984	-0.127	239.650	238.493	
128180.000			240.217	237.524	-0.486	239.200	238.240	
128200.000			238.496	237.430	-1.096	238.909	237.813	
128220.000			240.927	237.082	-0.642	237.889	237.247	
128240.000			243.004	237.062	-1.718	238.387	236.670	
128260.000			241.532	237.320	-1.792	237.885	236.093	
128280.000			239.647	236.712	-2.519	238.034	235.516	
128300.000			237.562	236.720	-1.898	236.836	234.939	
128320.000			236.002	235.236	-1.266	235.627	234.362	
128340.000			235.960	234.678	-1.586	235.370	233.785	
128360.000			235.858	233.779	-0.560	233.770	233.211	
128380.000			234.373	232.630	-0.060	232.815	232.755	
128400.000			235.918	232.931	-0.430	232.903	232.473	
128420.000			236.357	234.415	-2.211	234.570	232.360	
128440.000			236.229	234.714	-4.180	236.483	232.302	
128460.000			236.102	235.250	-5.086	237.331	232.245	
128480.000			235.969	235.822	-4.537	236.725	232.188	
128500.000			236.547	234.434	-2.969	235.100	232.130	
128520.000			238.078	233.955	-3.823	235.896	232.073	
128540.000			237.773	233.498	-2.876	234.891	232.015	
128560.000			236.328	232.285	-1.104	233.062	231.958	
128580.000			234.668	232.055	-0.182	232.083	231.901	
128600.000			233.016	232.118	-0.230	232.073	231.843	
128620.000			232.806	232.336	-0.434	232.220	231.786	
128640.000			235.332	232.986	-0.940	232.668	231.728	
128660.000			235.350	232.016	-1.005	232.675	231.671	
128680.000			234.153	231.611	-1.509	233.122	231.614	
128700.000			232.771	231.157	-1.154	232.721	231.567	
128720.000			231.790	231.151	0.113	231.576	231.689	
128740.000			235.811	231.894	-1.584	233.614	232.030	
128760.000			237.488	233.835	-3.642	236.222	232.581	
128780.000			240.238	235.707	-5.486	238.668	233.182	
128800.000			243.250	235.246	-2.925	236.710	233.784	
128820.000			243.810	235.807	-2.638	237.025	234.386	
128840.000			236.677	236.157	-1.738	236.721	234.984	
128860.000			238.162	236.292	-1.073	236.740	235.443	
128880.000			249.900	237.897	-1.300	239.140	235.702	
128900.000			249.800	237.802	-1.600	240.220	235.765	
128920.000			243.070	238.268	-1.963	240.060	235.765	
128940.000			242.210	237.413	-2.325	239.330	235.765	
128960.000			236.821	236.366	-0.734	236.498	235.765	
128980.000			236.130	236.112	-0.017	235.782	235.765	
129000.000			236.006	235.742	0.005	235.760	235.765	
129020.000			235.929	235.731	0.108	235.656	235.765	

Revisions

Rev.	Date	Description	Drawn	Checked	Approved
15					
14					
13					
12					
11					
10					
9					
8					
7					
6					
5					
4					
3					
2					

Legend :-

- Existing Road
- Proposed Road
- RDW
- Boundary wall
- Electric post
- Handpump
- Kilometer stone
- T.B.M.
- Telephone Pole
- Tree
- EP
- KM

Client : NATIONAL HIGHWAY AND INFRASTRUCTURE DEVELOPMENT CORPORATION LIMITED

Project : CONSULTANCY SERVICES FOR DETAILED ENGINEERING / DETAILED PROJECT PREPARATION FOR UPGRADATION OF RANKOR-NONGHYLLAM-MAHESHKHOLA-BAGHMARA ROAD TO 2-LANE UNDER SARDP-NE "PHASE-A" IN MEGHALAYA

Consultant : HOLTEC CONSULTING PRIVATE LIMITED
 HOLTEC CENTRE, A BLOCK, SUSHANT LOK, GURGAON-122001 HARYANA, INDIA
 PHONE : 0124-2395095, 2395096, FAX 0124-2395114, 2395116

Designed : SA
Checked : JIG
Approved : JIG

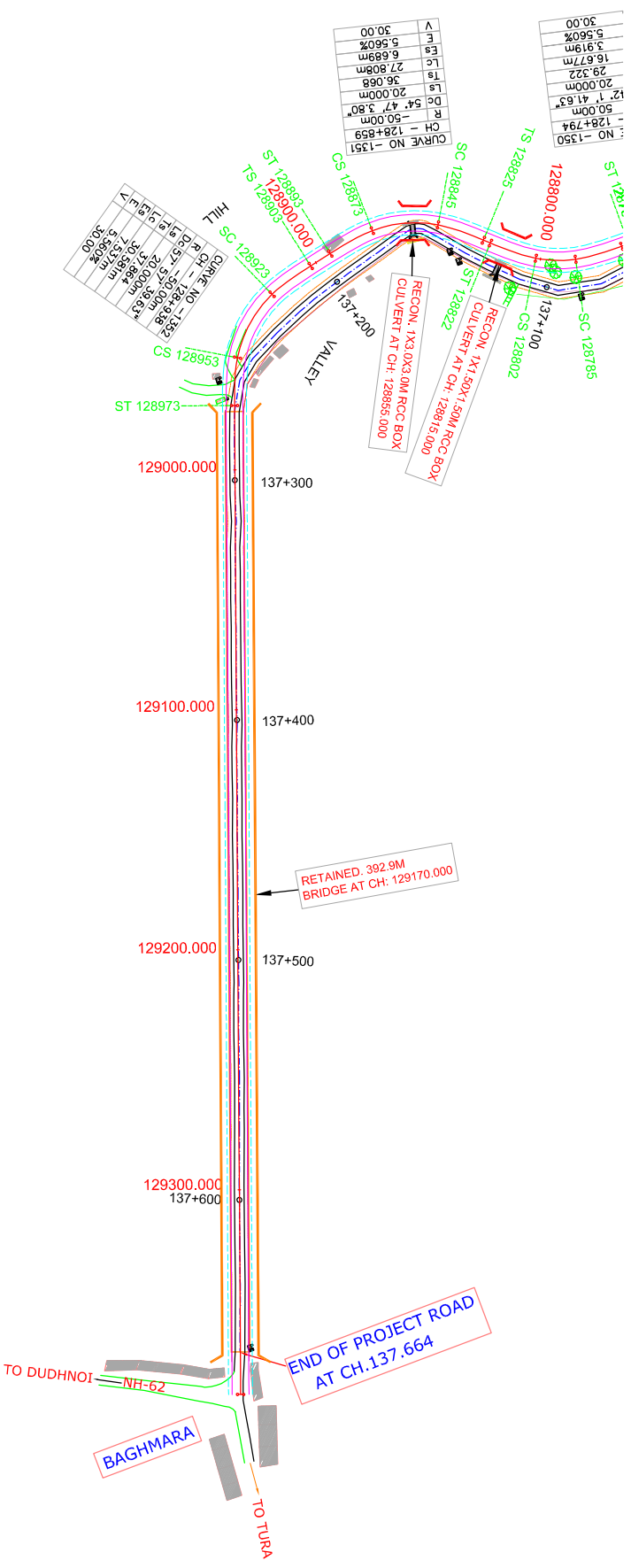
Scale : HOR-1:2850
 VER-1:725

Date : MAR. 2019

Drawing No. : HOL/RMB/PPR/10558/PP-129
Rev. : 0
Sheet : A3

RANKOR

BAGHMARA



PROPOSED ROAD LEVEL AT PROPOSED CENTRE LINE
 EXISTING ROAD/GROUND LEVEL AT PROPOSED CENTRE LINE

DATUM LEVEL =223.000	
PROPOSED ROAD LEVEL AT PROPOSED CENTRE LINE	EXISTING ROAD/GROUND LEVEL AT PROPOSED CENTRE LINE
235.765	235.760
235.765	235.656
235.765	235.706
235.765	235.742
235.765	235.713
235.765	235.746
235.765	235.726
235.765	235.725
235.765	235.744
235.765	235.762
235.765	235.744
235.765	235.738
235.765	235.664
235.765	235.652
235.765	235.663
235.765	236.450
235.765	235.428
235.765	235.381
235.765	235.407
235.765	235.798
235.765	235.888
235.765	235.742
235.731	235.731
235.707	235.707
235.918	235.918
236.216	236.216
235.841	235.841
235.708	235.708
235.779	235.779
235.913	235.913
235.989	235.989
235.862	235.862
235.747	235.747
235.678	235.678
235.650	235.650
235.641	235.641
235.684	235.684
235.454	235.454
235.543	235.543
235.814	235.814
236.036	236.036

Rev.	Date	Description	Drawn	Checked	Approved

Legend :-

	Existing Road
	Proposed Road
	RDW
	Boundary wall
	Building/Shop
	Culvert/Bridge
	T.B.M.
	Telephone Pole
	Tree
	Electric post
	Handpump
	Kilometer stone
	KM

Client : **NATIONAL HIGHWAY AND INFRASTRUCTURE DEVELOPMENT CORPORATION LIMITED**

Project : **CONSULTANCY SERVICES FOR DETAILED ENGINEERING / DETAILED PROJECT PREPARATION FOR UPGRADATION OF RANKOR-NONGHYLLAM-MAHESHKHOLA-BAGHMARA ROAD TO 2-LANE UNDER SARDP-NE PHASE-A IN MEGHALAYA**

Consultant: **HOLTEC CONSULTING PRIVATE LIMITED**
 HOLTEC CENTRE, A BLOCK, SUSHANT LOK, GURGAON-122001 HARYANA, INDIA
 PHONE : 0124-2385095, 2385096, FAX 0124-2385114, 2385116

Scale: **HOR-1:2850** Date: **MAR. 2019**

Version: **VER-1:725**

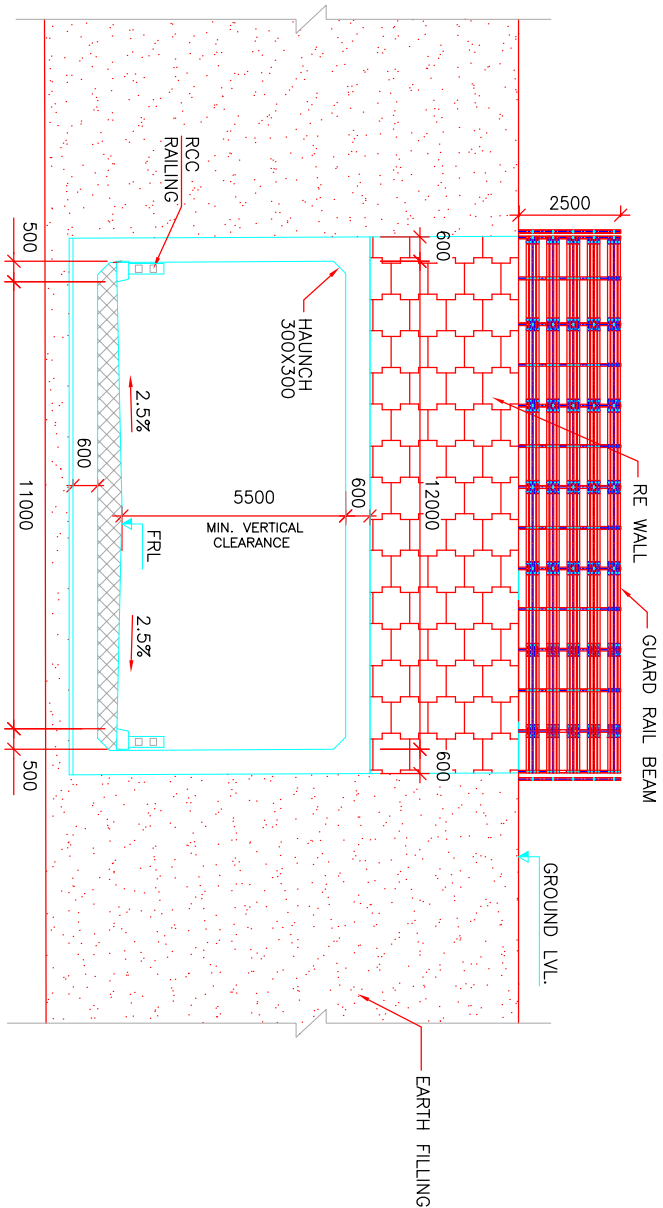
Designated: **SA** Checked: **JIG**

Drawn: **SVR** Approved: **JIG**

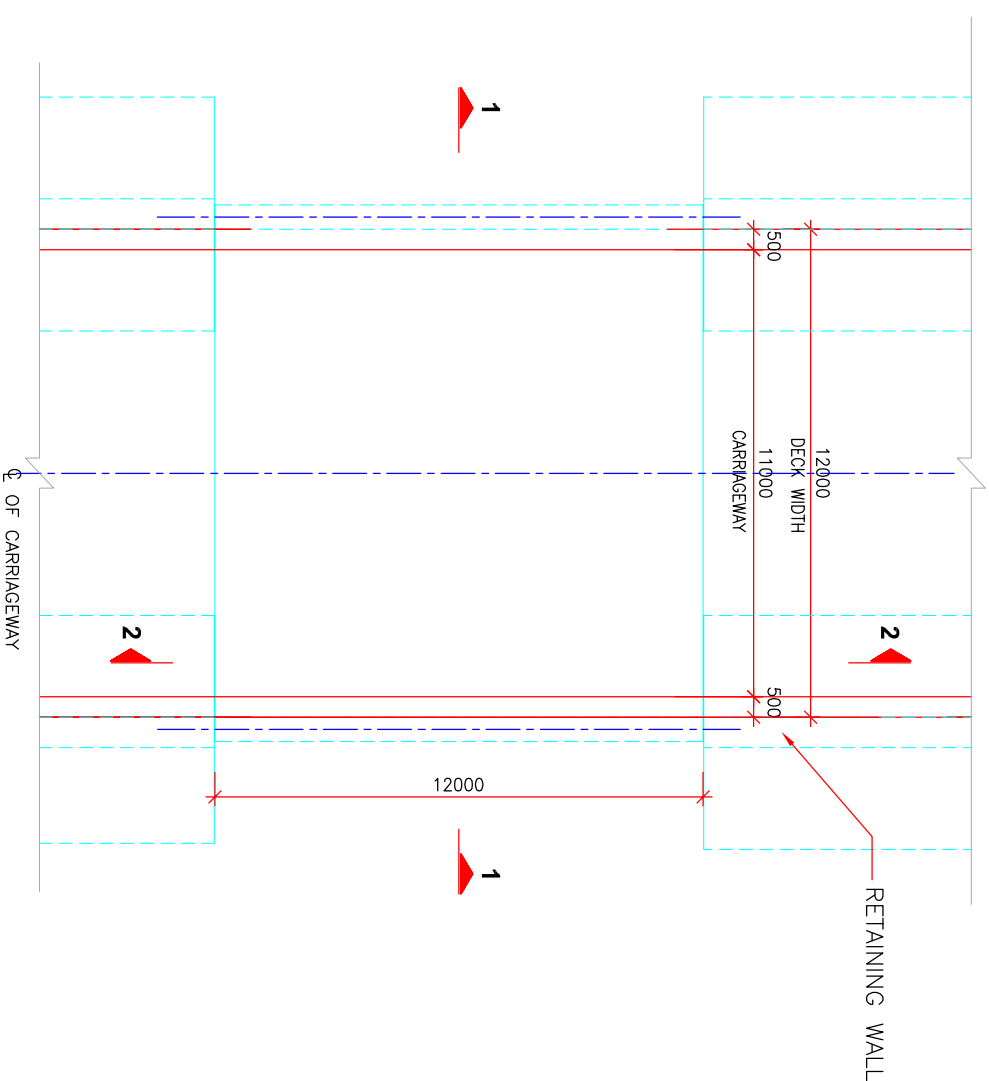
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Rev.: **0** Sheet: **A3**

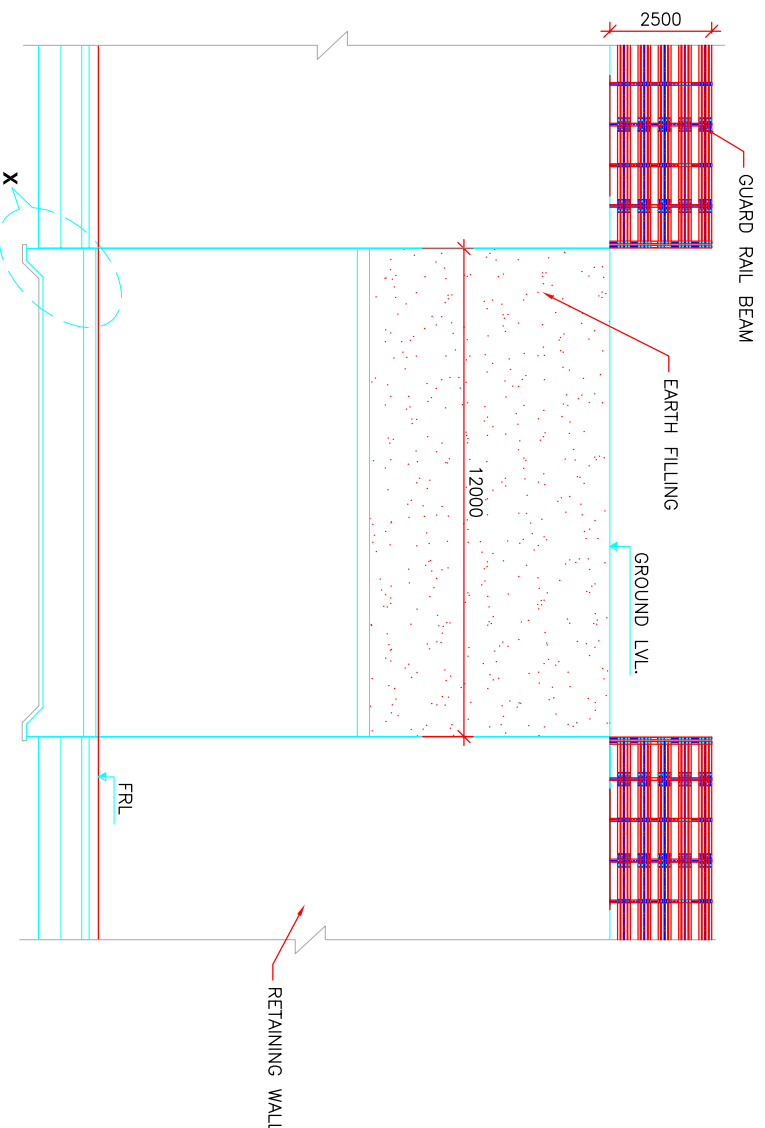
ALIGNMENT PLAN & PROFILE OF SH-4
KM 129.000 TO 129.385



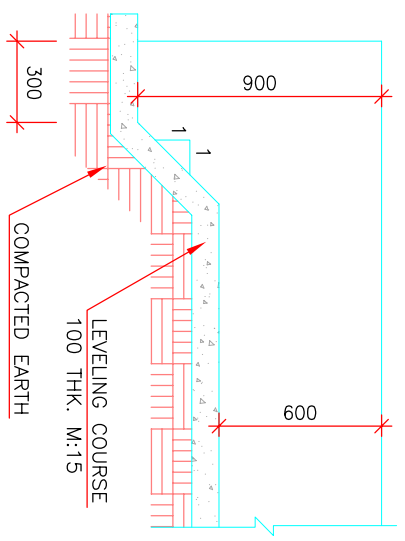
SECTION 1-1
SCALE=1:150



PLAN
SCALE=1:150



SECTION 2-2
SCALE=1:150



DETAIL-X
SCALE=1:25

S.N.	CH: (Km.)	FRL. (M.)	GROUND (M.)
1	113+770	321.325	346.100
2	119+120	439.792	466.319
3	120+750	407.712	413.268

NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS ARE IN METRES UNLESS OTHERWISE SPECIFIED.
2. DIMENSIONS ARE NOT TO BE SCALED ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.

Revisions		Client :		Consultant:		Title :	
Rev.	Date	Description	Drawn	Checked	Approved	Scale	Date
			SSH	SG	JIG	AS SHOWN	JAN. 2020
Project :				Drawing No. :			
CONSULTANCY SERVICES FOR DETAILED ENGINEERING / DETAILED DEVELOPMENT CORPORATION LIMITED				HOLTEC CONSULTING PRIVATE LIMITED			
PROJECT PREPARATION FOR UPGRADATION OF RAJNOKOR-NONGHYLLAM-MAHESHKHOLA-BAGHMARA ROAD TO 2-LANE UNDER SARDP-NE "PHASE-A" IN MEGHALAYA				HOLTEC CENTRE, A BLOCK, SUSHANT LOK, GURGAON-122001 HARYANA, INDIA PHONE : 0124-2385095, 2385096, FAX 0124-2385114, 2385116			
Client :				Drawing No. :			
NATIONAL HIGHWAY AND INFRASTRUCTURE DEVELOPMENT CORPORATION LIMITED				HOL/RMB/DPR/10558/OP-1/01			
Project :				Rev.			
CONSULTANCY SERVICES FOR DETAILED ENGINEERING / DETAILED DEVELOPMENT CORPORATION LIMITED				0			
PROJECT PREPARATION FOR UPGRADATION OF RAJNOKOR-NONGHYLLAM-MAHESHKHOLA-BAGHMARA ROAD TO 2-LANE UNDER SARDP-NE "PHASE-A" IN MEGHALAYA				Sheet			
Client :				A3			
NATIONAL HIGHWAY AND INFRASTRUCTURE DEVELOPMENT CORPORATION LIMITED				CAD File Ref. :			
Project :							
CONSULTANCY SERVICES FOR DETAILED ENGINEERING / DETAILED DEVELOPMENT CORPORATION LIMITED							
PROJECT PREPARATION FOR UPGRADATION OF RAJNOKOR-NONGHYLLAM-MAHESHKHOLA-BAGHMARA ROAD TO 2-LANE UNDER SARDP-NE "PHASE-A" IN MEGHALAYA							