

800.00M

798.00M

796.00M

794.00M

792.00M

790.00M

788.00M

786.00M

784.00M

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770.00M

768.00M

766.00M

764.00M

762.00M

760.00M

758.00M

756.00M

754.00M

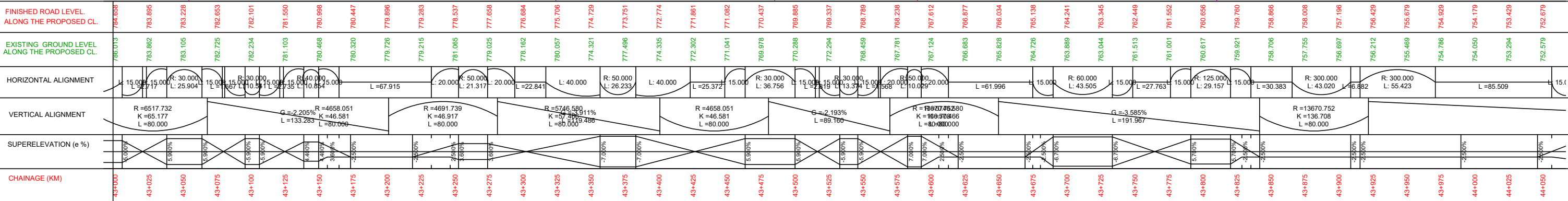
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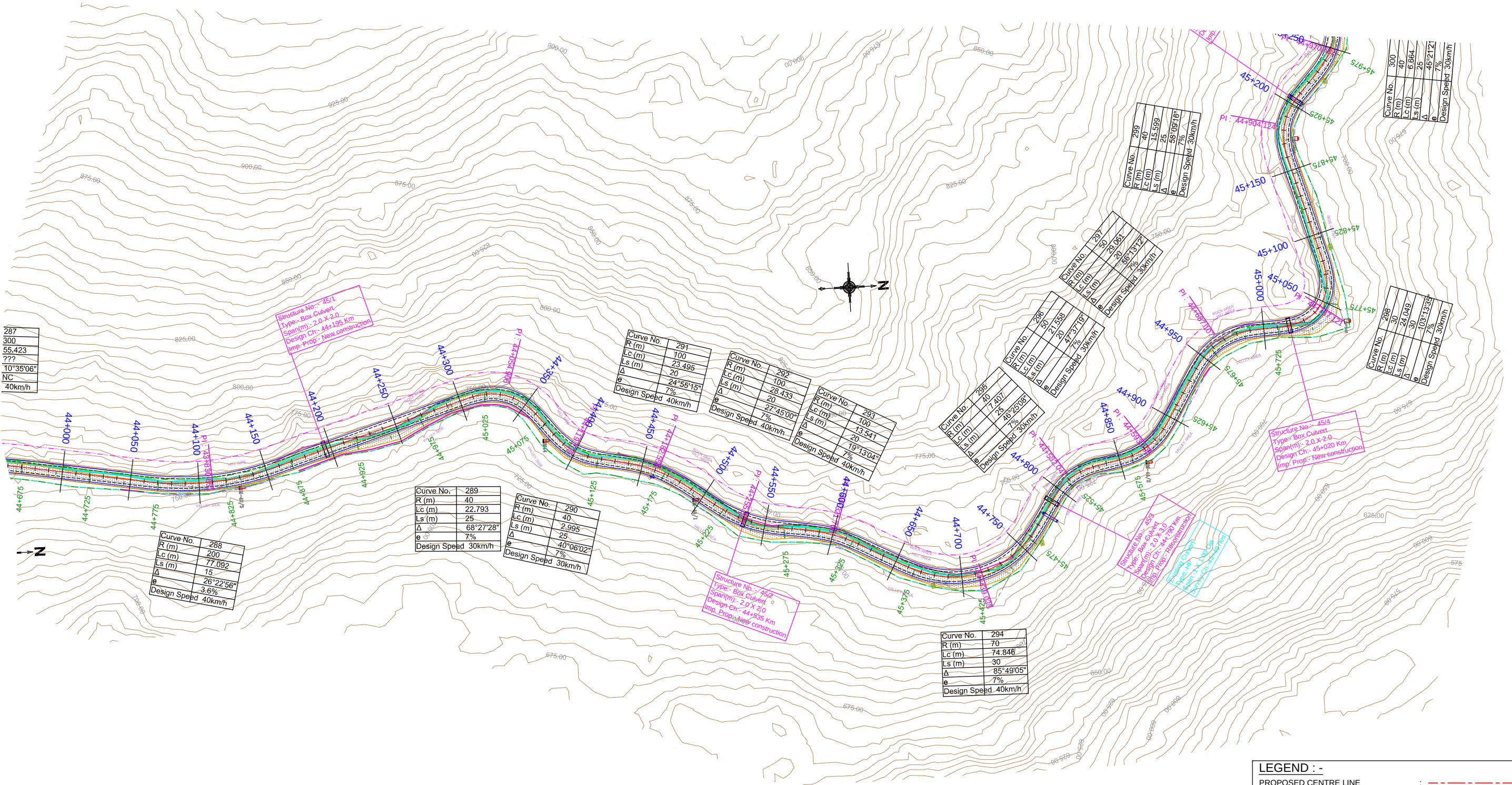
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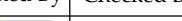
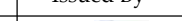
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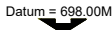


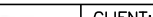
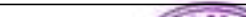
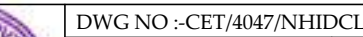
Scale :- H -1:2500 V -1:250					CLIENT: NATIONAL HIGHWAYS AND INFRASTRUCTURE DEVELOPMENT CORPORATION LTD. PTI Building, 3rd Floor, 4, Parliament Street, New Delhi - 110001					TITLE : PROFILE Km 43+000 to Km 44+000					CONSULTANT : CETEST Engineering Consultants Approved, Listed & Certified ISO 9001:2015 CE TESTING COMPANY PVT. LTD. 124-A, N.S.C. Bose Road, Kolkata - 700092.					DWG NO :-CET/4047/NHIDCL/NH-37/I-J/DDPR/PP				
										SUBMISSION TYPE : DRAFT DETAIL PROJECT REPORT										REVISION MKD. - R2				
																				SHEET NO. - 11A				
																				Drawn By				
																				Designed By				
																				Checked By				
																				Issued By				
																				S.MANDAL				
																				B. DAS				
																				A.DEY				
																				A. K.DAS				

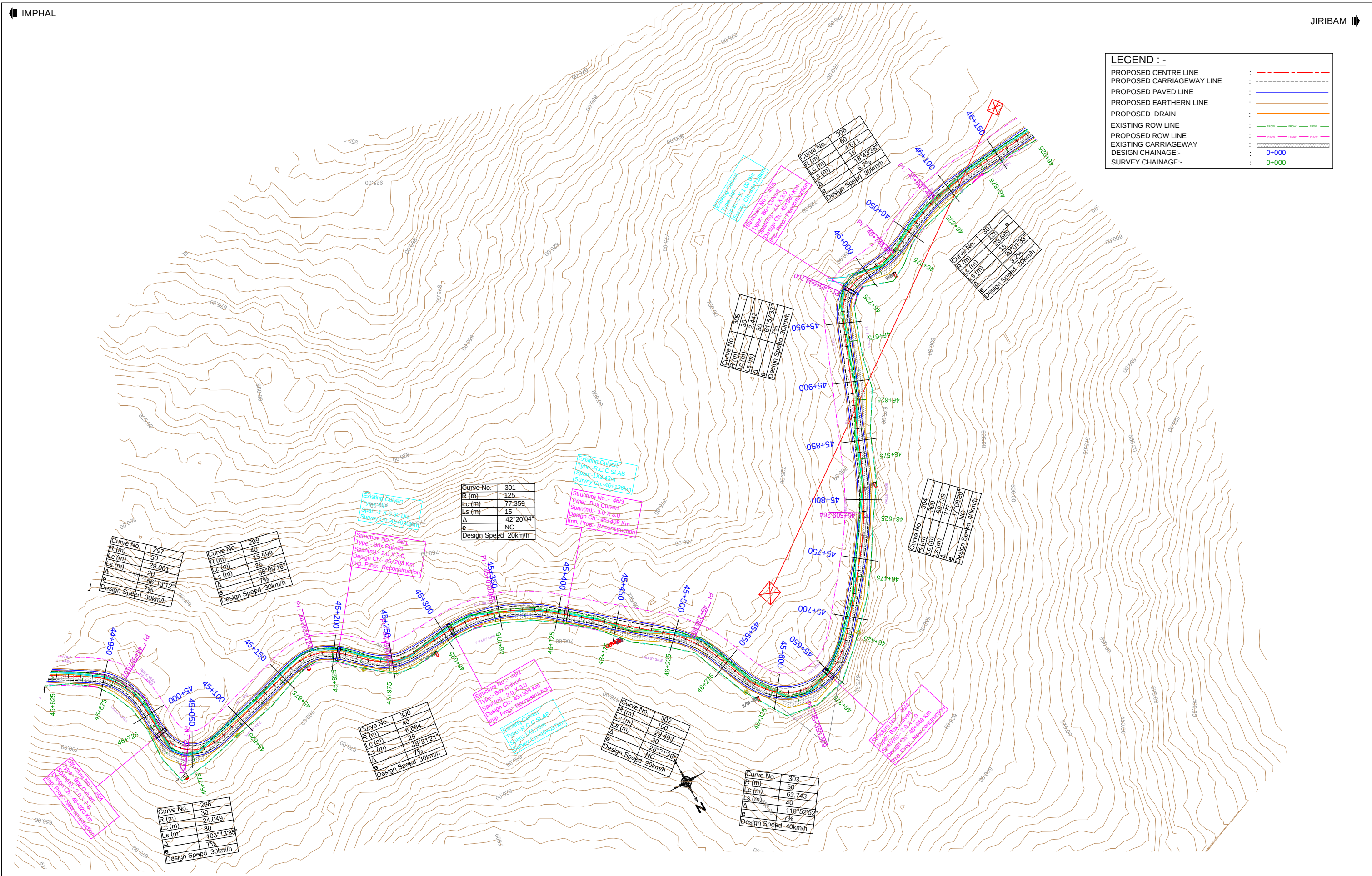


LEGEND :-	
PROPOSED CENTRE LINE	---
PROPOSED CARRIAGEWAY LINE	---
PROPOSED PAVED LINE	---
PROPOSED EARTHEN LINE	---
PROPOSED DRAIN	---
EXISTING ROW LINE	---
PROPOSED ROW LINE	---
EXISTING CARRIAGEWAY	---
DESIGN CHAINAGE:-	0+000
SURVEY CHAINAGE:-	0+000

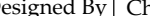
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								SUBMISSION TYPE : DRAFT DETAIL PROJECT REPORT			REVISION MKD. - R2		SHEET NO. - 12	
MKD.	DATE	DESCRIPTION	CHKD.	APPRD.	DATE: FEB, 2021	PROJECT: CONSULTANCY SERVICES FOR CARRYING OUT FEASIBILITY STUDY, PREPARATION OF DETAILED PROJECT REPORT AND PROVIDING PRE-CONSTRUCTION SERVICES IN RESPECT OF 2 LANING WITH PAVED SHOULDER OF IMPHAL-JIRIBAM SECTION OF NH-37 (NH-53) (LENGTH- 220 KM) IN THE STATE OF MANIPUR					Drawn By	Designed By	Checked By	Issued By
REVISIONS														
											S.MANDAL	B. DAS	A.DEY	A. K.DAS

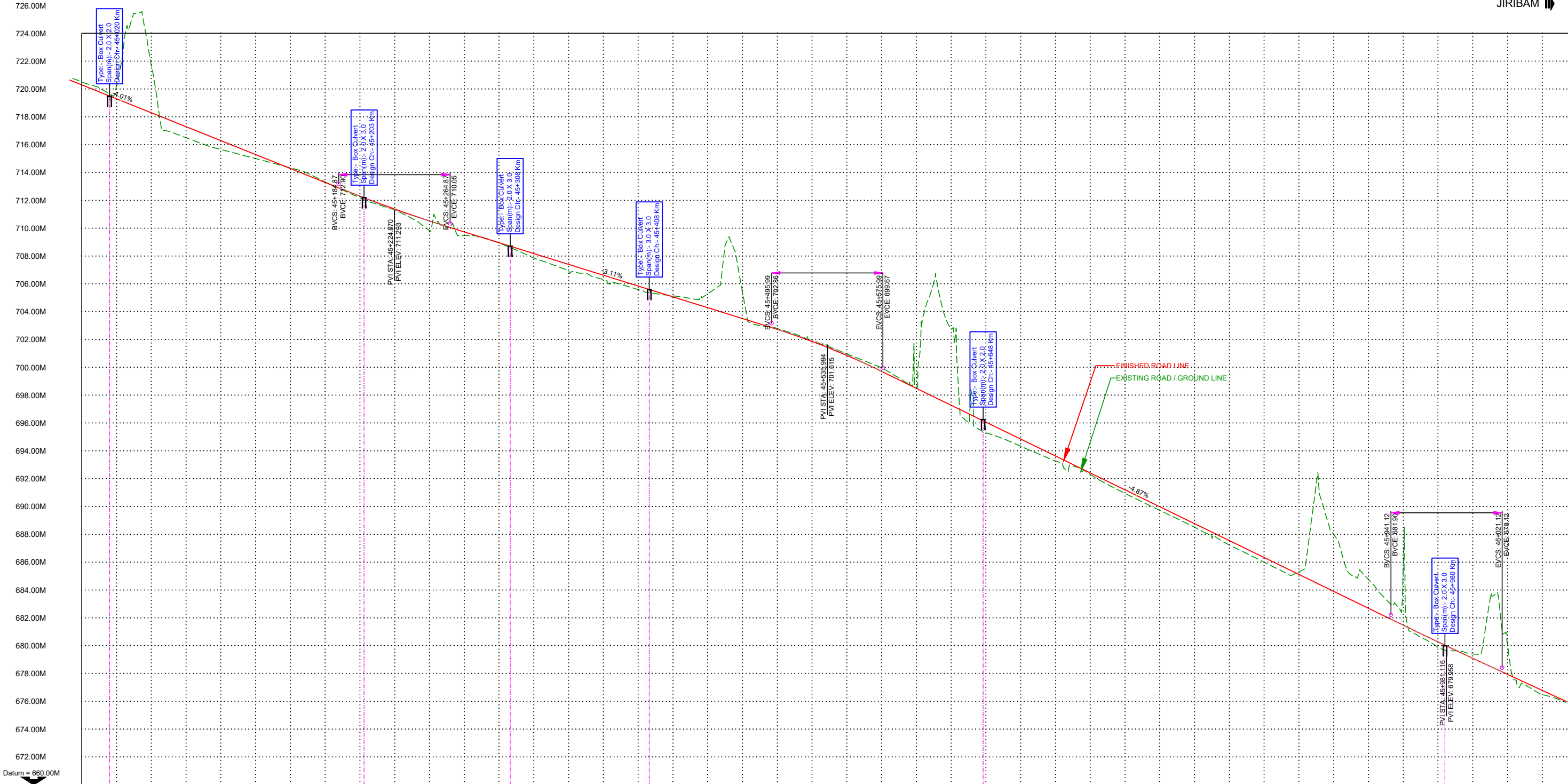


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										REVISION MKD. - R2		SHEET NO. - 12A	
										Drawn By	Designed By	Checked By	Issued By
MKD.	DATE	DESCRIPTION	CHKD.	APPRD.	DATE: FEB, 2021	PROJECT: CONSULTANCY SERVICES FOR CARRYING OUT FEASIBILITY STUDY, PREPARATION OF DETAILED PROJECT REPORT AND PROVIDING PRE-CONSTRUCTION SERVICES IN RESPECT OF 2 LANING WITH PAVED SHOULDER OF IMPHAL-JIRIBAM SECTION OF NH-37 (NH-53) (LENGTH- 220 KM) IN THE STATE OF MANIPUR	SUBMISSION TYPE : DRAFT DETAIL PROJECT REPORT	(PACKAGE NO. III)					
REVISIONS													S.MANDAL



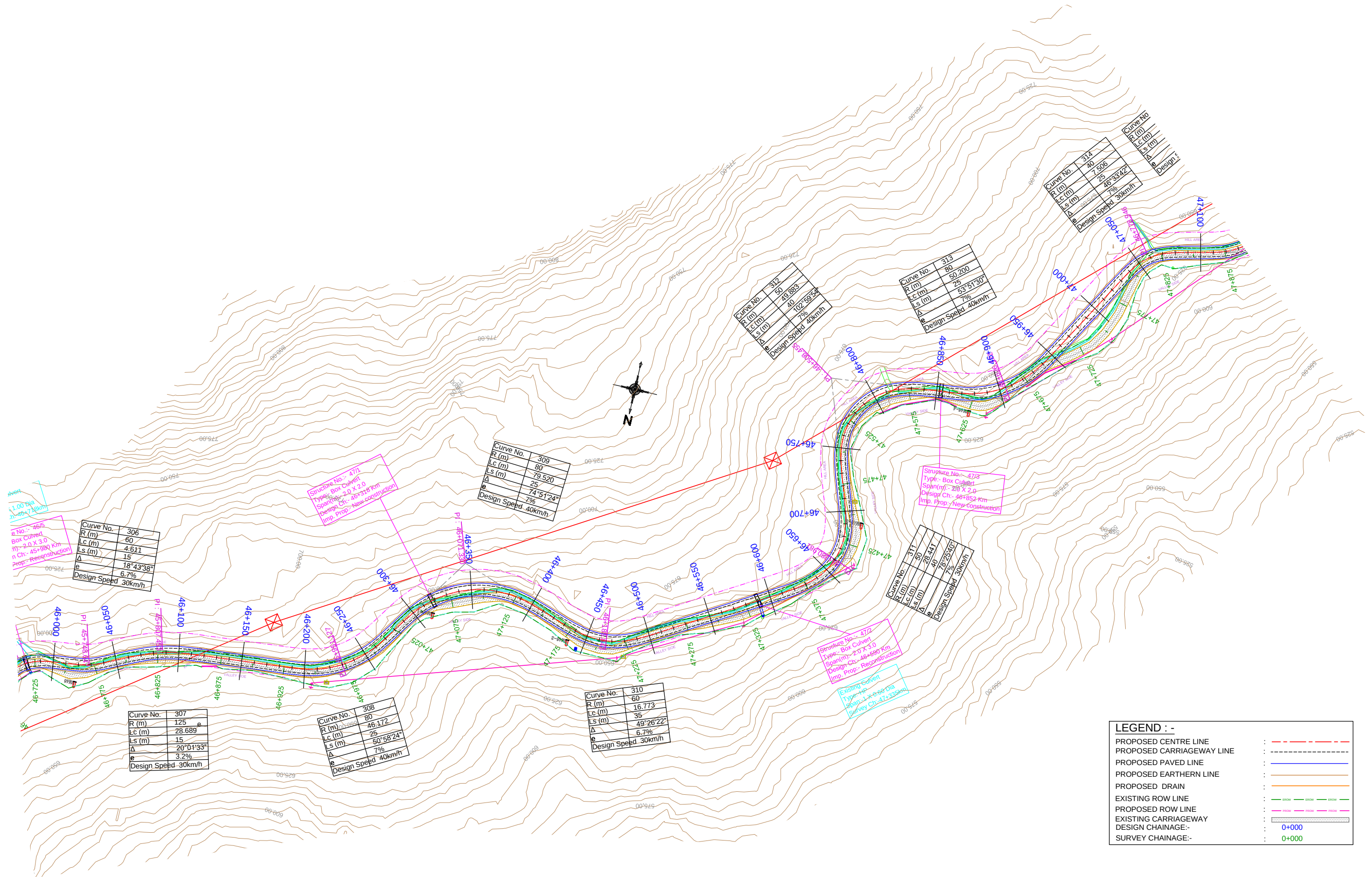
LEGEND :-	
PROPOSED CENTRE LINE	---
PROPOSED CARRIAGEWAY LINE	---
PROPOSED PAVED LINE	---
PROPOSED EARTHEN LINE	---
PROPOSED DRAIN	---
EXISTING ROW LINE	---
PROPOSED ROW LINE	---
EXISTING CARRIAGEWAY	---
DESIGN CHAINAGE:-	0+000
SURVEY CHAINAGE:-	0+000

					Scale :- H -1:2500		CLIENT: NATIONAL HIGHWAYS AND INFRASTRUCTURE DEVELOPMENT CORPORATION LTD. PTI Building, 3rd Floor, 4, Parliament Street, New Delhi - 110001	TITLE : PLAN Km 45+000 to Km 46+000	CONSULTANT :  CE TESTING COMPANY PVT. LTD. 124-A, N.S.C. Bose Road, Kolkata - 700092.	DWG NO :-CET/4047/NHIDCL/NH-37/I-J/DDPR/PP			
										REVISION MKD. - R2	SHEET NO. - 13		
					DATE: FEB, 2021	PROJECT: CONSULTANCY SERVICES FOR CARRYING OUT FEASIBILITY STUDY, PREPARATION OF DETAILED PROJECT REPORT AND PROVIDING PRE-CONSTRUCTION SERVICES IN RESPECT OF 2 LANING WITH PAVED SHOULDER OF IMPHAL-JIRIBAM SECTION OF NH-37 (NH-53) (LENGTH- 220 KM) IN THE STATE OF MANIPUR		SUBMISSION TYPE : DRAFT DETAIL PROJECT REPORT		Drawn By	Designed By	Checked By	Issued By
MKD.	DATE	DESCRIPTION	CHKD.	APPRD.									
REVISIONS								(PACKAGE NO. III)		S.MANDAL	B. DAS	A.DEY	A. K.DAS



FINISHED ROAD LEVEL, ALONG THE PROPOSED CL.	720.302	719.300	718.289	717.297	716.296	715.294	714.292	713.291	712.302	711.378	710.524	709.734	708.956	708.178	707.401	706.623	705.845	705.068	704.290	703.512	702.733	701.865	700.859	699.717	698.501	697.284	696.068	694.852	693.635	692.419	691.203	689.986	688.770	687.553	686.337	685.121	683.904	682.688	681.473	680.274	679.095	677.936	676.785		
EXISTING GROUND LEVEL ALONG THE PROPOSED CL.	720.512	720.197	721.757	716.505	715.659	715.002	714.339	713.325	712.186	711.303	709.840	709.469	708.944	707.851	706.957	706.309	705.595	705.141	705.284	705.416	702.789	701.881	700.970	699.972	698.596	702.765	695.288	694.333	693.266	692.307	690.945	689.719	688.508	687.239	686.001	685.309	687.992	683.904	682.688	684.761	685.645	679.878	679.407	680.029	676.491
HORIZONTAL ALIGNMENT																																													
VERTICAL ALIGNMENT																																													
SUPERELEVATION (e %)																																													
CHAINAGE (KM)	45+000	45+025	45+050	45+075	45+100	45+125	45+150	45+175	45+200	45+225	45+250	45+275	45+300	45+325	45+350	45+375	45+400	45+425	45+450	45+475	45+500	45+525	45+550	45+575	45+600	45+625	45+650	45+675	45+700	45+725	45+750	45+775	45+800	45+825	45+850	45+875	45+900	45+925	45+950	45+975	46+000				

Scale :- H -1:2500 V -1:250					CLIENT: NATIONAL HIGHWAYS AND INFRASTRUCTURE DEVELOPMENT CORPORATION LTD. PTI Building, 3rd Floor, 4, Parliament Street, New Delhi - 110001					TITLE : PROFILE Km 45+000 to Km 46+000					CONSULTANT : CETEST Engineering Consultants 124-A, N.S.C. Bose Road, Kolkata - 700092.					DWG NO :-CET/4047/NHIDCL/NH-37/I-J/DDPR/PP				
DATE: FEB, 2021					PROJECT: CONSULTANCY SERVICES FOR CARRYING OUT FEASIBILITY STUDY, PREPARATION OF DETAILED PROJECT REPORT AND PROVIDING PRE-CONSTRUCTION SERVICES IN RESPECT OF 2 LANING WITH PAVED SHOULDER OF IMPHAL-JIRIBAM SECTION OF NH-37 (NH-53) (LENGTH- 220 KM) IN THE STATE OF MANIPUR					SUBMISSION TYPE : DRAFT DETAIL PROJECT REPORT					(PACKAGE NO. III)					REVISION MKD. - R2				
REVISIONS					DRAWN BY: S.MANDAL					DESIGNED BY: B. DAS					CHECKED BY: A.DEY					ISSUED BY: A. K.DAS				



					Scale :- H 1:2500		CLIENT: NATIONAL HIGHWAYS AND INFRASTRUCTURE DEVELOPMENT CORPORATION LTD. PTI Building, 3rd Floor, 4, Parliament Street, New Delhi - 110001	TITLE : PLAN Km 46+000 to Km 47+000	CONSULTANT :  CE TESTING COMPANY PVT. LTD. 124-A, N.S.C. Bose Road Kolkata - 700092. 	DWG NO :-CET/4047/NHIDCL/NH-37/I-J/DDPR/PP						
										REVISION MKD. - R2		SHEET NO. - 14				
					DATE: FEB, 2021	PROJECT: CONSULTANCY SERVICES FOR CARRYING OUT FEASIBILITY STUDY, PREPARATION OF DETAILED PROJECT REPORT AND PROVIDING PRE-CONSTRUCTION SERVICES IN RESPECT OF 2 LANING WITH PAVED SHOULDER OF IMPHAL-JIRIBAM SECTION OF NH-37 (NH-53) (LENGTH- 220 KM) IN THE STATE OF MANIPUR				SUBMISSION TYPE :		(PACKAGE NO. III)	Drawn By	Designed By	Checked By	Issued By
										DRAFT DETAIL PROJECT REPORT						
MKD.					DATE		DESCRIPTION	CHKD.	APPRD.	S.MANDAL	B. DAS		A.DEY	A. K.DAS		
REVISIONS																



FINISHED ROAD LEVEL, ALONG THE PROPOSED CL.	679.095	677.936	676.785	675.633	674.481	673.330	672.178	671.026	669.875	668.723	667.571	666.420	665.268	664.089	662.816	661.445	659.991	658.527	657.063	655.599	654.135	652.671	651.206	649.742	648.327	647.012	645.799	644.686	643.675	642.765	641.907	641.049	640.145	639.117	637.964	636.714	635.457	634.205	633.011	631.891	630.844	629.822	628.800	
EXISTING GROUND LEVEL ALONG THE PROPOSED CL.	679.407	680.029	676.491	675.562	674.229	673.022	671.668	670.770	669.993	668.640	667.256	665.985	665.129	665.639	665.192	661.268	660.268	659.792	659.110	655.550	653.924	652.593	651.141	650.322	648.333	647.099	645.852	645.655	643.127	642.633	641.686	640.853	642.704	641.744	637.550	639.652	635.722	633.692	633.559	643.621	647.828	633.242	629.257	
HORIZONTAL ALIGNMENT																																												



FINISHED ROAD LEVEL, ALONG THE PROPOSED CL.	630.844	629.822	628.800	627.779	626.757	625.735	624.694	623.607	622.473	621.305	620.136	618.966	617.796	616.626	615.456	614.286	613.117	611.947	610.777	609.607	608.437	607.268	606.098	604.928	603.758	602.588	601.418	600.249	599.087	598.074	597.264	596.654	596.129	595.481	594.612	593.521	592.290	591.057	589.824	588.591	587.358	586.124	584.891
EXISTING GROUND LEVEL ALONG THE PROPOSED CL.	647.828	638.242	629.257	628.025	626.564	625.528	624.650	623.538	622.719	622.238	620.256	624.788	617.910	615.937	615.075	613.958	612.711	611.541	610.588	609.825	621.077	613.641	614.169	608.285	603.715	605.299	605.947	607.613	607.655	604.690	603.543	600.685	596.512	599.238	597.164	593.340	591.606	590.304	594.248	590.622	586.818	586.026	589.422
HORIZONTAL ALIGNMENT																																											
VERTICAL ALIGNMENT																																											
SUPERELEVATION (e %)																																											
CHAINAGE (KM)	47+000	47+025	47+050	47+075	47+100	47+125	47+150	47+175	47+200	47+225	47+250	47+275	47+300	47+325	47+350	47+375	47+400	47+425	47+450	47+475	47+500	47+525	47+550	47+575	47+600	47+625	47+650	47+675	47+700	47+725	47+750	47+775	47+800	47+825	47+850	47+875	47+900	47+925	47+950	47+975	48+000	48+025	48+050

Scale :-
H -1:2500
V -1:250

CLIENT: NATIONAL HIGHWAYS AND INFRASTRUCTURE DEVELOPMENT CORPORATION LTD.
PTI Building, 3rd Floor, 4, Parliament Street,
New Delhi - 110001

PROJECT:
CONSULTANCY SERVICES FOR CARRYING OUT FEASIBILITY STUDY, PREPARATION OF DETAILED PROJECT REPORT AND PROVIDING PRE-CONSTRUCTION SERVICES IN RESPECT OF 2 LANING WITH PAVED SHOULDER OF IMPHAL-JIRIBAM SECTION OF NH-37 (NH-53) (LENGTH- 220 KM) IN THE STATE OF MANIPUR

TITLE :
PROFILE
Km 47+000 to Km 48+000

SUBMISSION TYPE :
DRAFT DETAIL PROJECT REPORT

(PACKAGE NO. III)

CONSULTANT :

CE TESTING COMPANY PVT. LTD.
124-A, N.S.C. Bose Road,
Kolkata - 700092.

DWG NO :-CET/4047/NHIDCL/NH-37/I-J/DDPR/PP

REVISION MKD. - R2

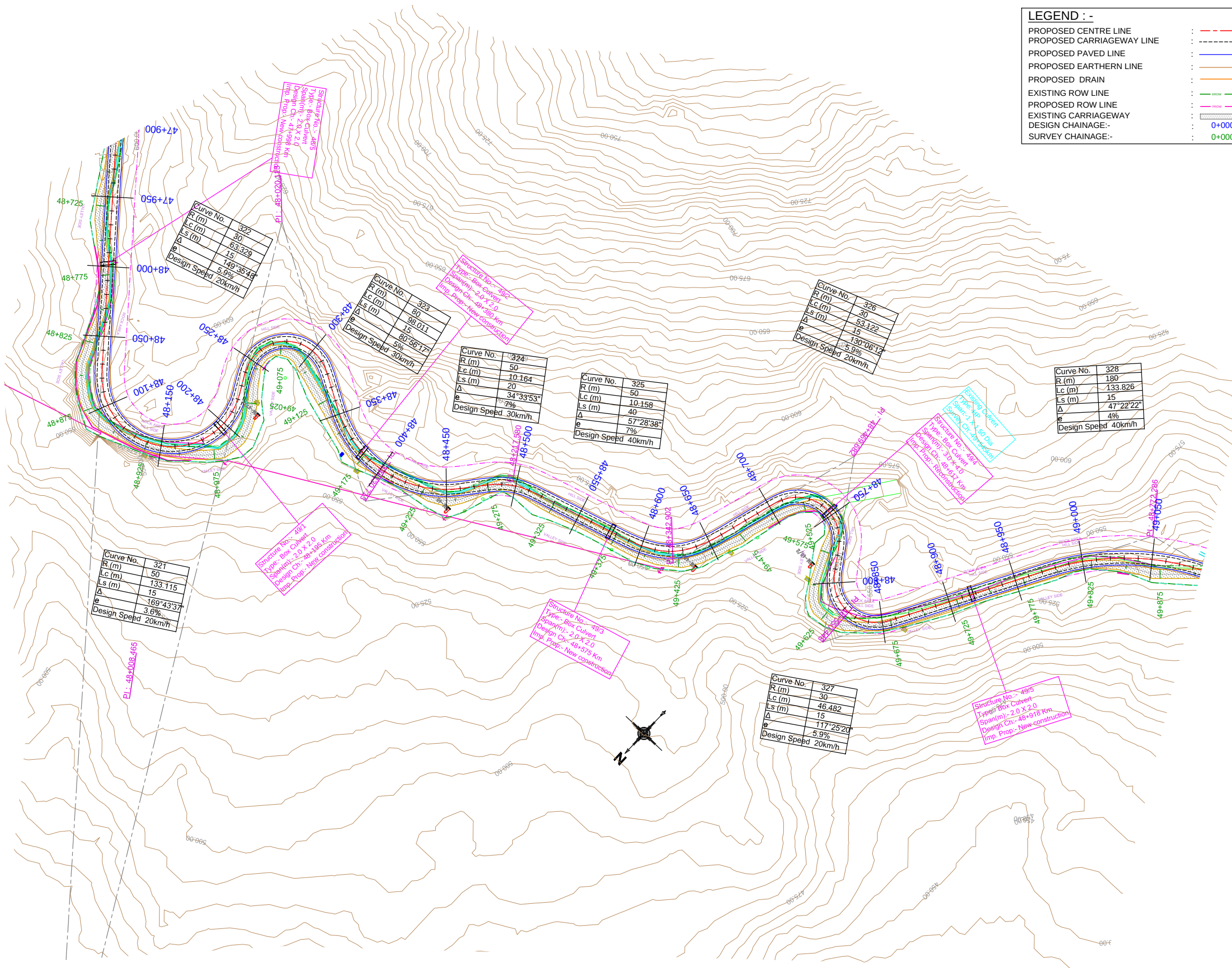
SHEET NO. - 15A

Drawn By
S.MANDAL

Designed By
B. DAS

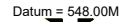
Checked By
A.DEY

Issued By
A. K.DAS

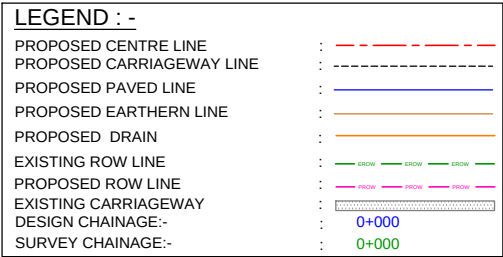


LEGEND :-	
PROPOSED CENTRE LINE	---
PROPOSED CARRIAGEWAY LINE	---
PROPOSED PAVED LINE	---
PROPOSED EARTHEN LINE	---
PROPOSED DRAIN	---
EXISTING ROW LINE	---
PROPOSED ROW LINE	---
EXISTING CARRIAGEWAY	---
DESIGN CHAINAGE:-	0+000
SURVEY CHAINAGE:-	0+000

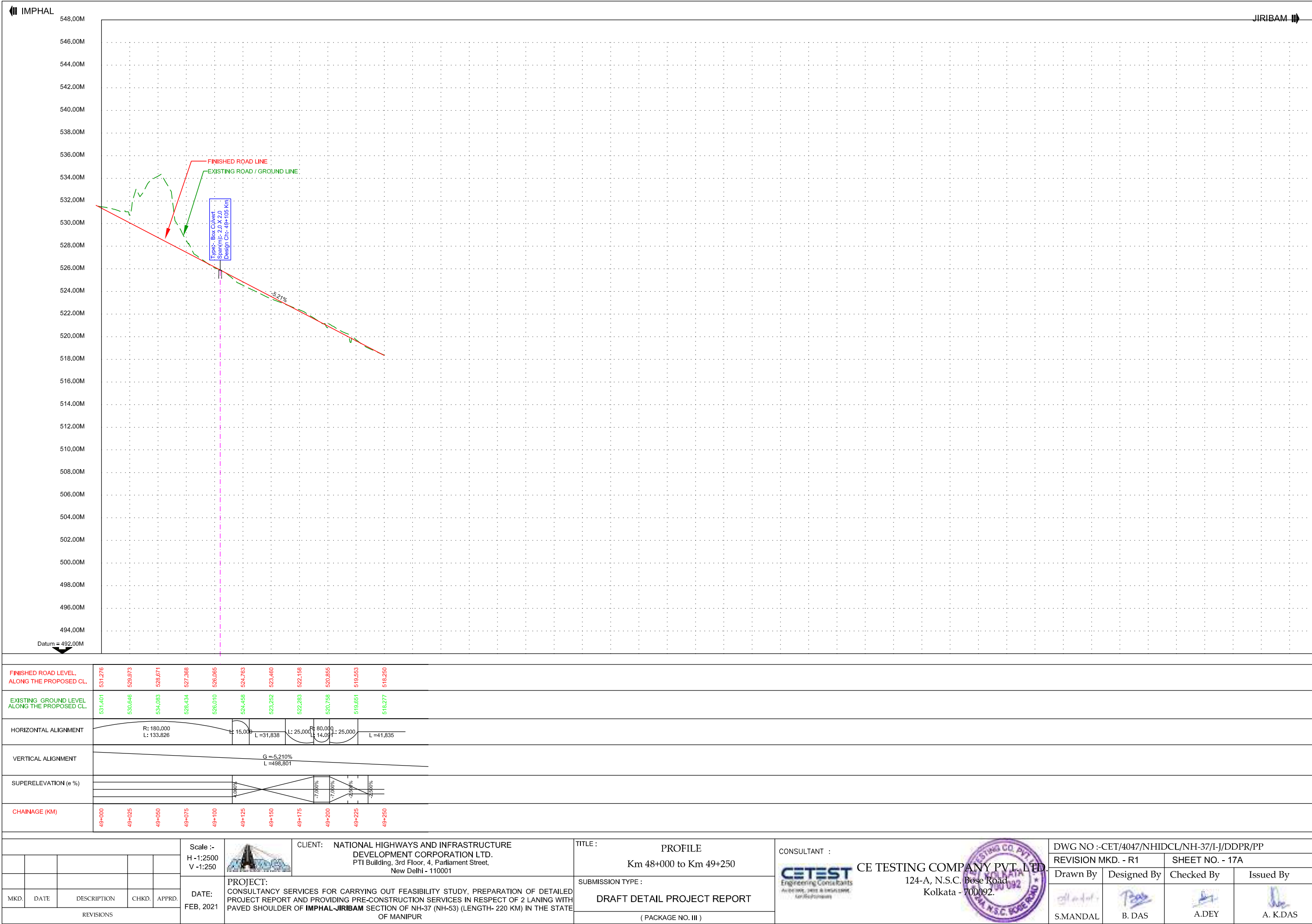
					Scale :- H : 1:2500		CLIENT: NATIONAL HIGHWAYS AND INFRASTRUCTURE DEVELOPMENT CORPORATION LTD. PTI Building, 3rd Floor, 4, Parliament Street, New Delhi - 110001	TITLE : PLAN Km 48+000 to Km 49+000	CONSULTANT : CE TESTING COMPANY PVT. LTD. 124-A, N.S.C. Bose Road, Kolkata - 700092.	DWG NO :-CET/4047/NHIDCL/NH-37/I-I/DDPR/PP			
										REVISION MKD. - R2		SHEET NO. - 16	
					DATE: FEB, 2021	PROJECT: CONSULTANCY SERVICES FOR CARRYING OUT FEASIBILITY STUDY, PREPARATION OF DETAILED PROJECT REPORT AND PROVIDING PRE-CONSTRUCTION SERVICES IN RESPECT OF 2 LANING WITH PAVED SHOULDER OF IMPHAL-JIRIBAM SECTION OF NH-37 (NH-53) (LENGTH- 220 KM) IN THE STATE OF MANIPUR		SUBMISSION TYPE : DRAFT DETAIL PROJECT REPORT		Drawn By S.MANDAL	Designed By B. DAS	Checked By A.DEY	Issued By A. K.DAS
REVISIONS								(PACKAGE NO. III)					



					Scale :- H -1:2500 V -1:250		CLIENT: NATIONAL HIGHWAYS AND INFRASTRUCTURE DEVELOPMENT CORPORATION LTD. PTI Building, 3rd Floor, 4, Parliament Street, New Delhi - 110001	TITLE : PROFILE Km 48+000 to Km 49+000		CONSULTANT :  CE TESTING COMPANY PVT. LTD. 124-A, N.S.C. Bose Road, Kolkata - 700092. 	DWG NO :-CET/4047/NHIDCL/NH-37/I-J/DDPR/PP			
					DATE: FEB, 2021			PROJECT: CONSULTANCY SERVICES FOR CARRYING OUT FEASIBILITY STUDY, PREPARATION OF DETAILED PROJECT REPORT AND PROVIDING PRE-CONSTRUCTION SERVICES IN RESPECT OF 2 LANING WITH PAVED SHOULDER OF IMPHAL-JIRIBAM SECTION OF NH-53 (NH-53) (LENGTH- 220 KM) IN THE STATE OF MANIPUR	SUBMISSION TYPE : DRAFT DETAIL PROJECT REPORT (PACKAGE NO. III)		REVISION MKD. - R2	SHEET NO. - 16A		
MKD.	DATE	DESCRIPTION	CHKD.	APPRD.					Drawn By	Designed By	Checked By	Issued By		
REVISIONS														
							S.MANDAL	B. DAS	A.DEY	A. K.DAS				



					Scale :- H -1:2500		CLIENT: NATIONAL HIGHWAYS AND INFRASTRUCTURE DEVELOPMENT CORPORATION LTD. PTI Building, 3rd Floor, 4, Parliament Street, New Delhi - 110001	TITLE : PLAN Km 49+000 to Km 49+250	CONSULTANT :  CE TESTING COMPANY PVT. LTD. 124-A, N.S.C. Bose Road Kolkata - 700092.	DWG NO :- CET/4047/NHIDCL/NH-37/1-I/DDPR/PP			
										REVISION MKD. - R2		SHEET NO. - 17	
										Drawn By	Designed By	Checked By	Issued By
MKD.	DATE	DESCRIPTION	CHKD.	APPRD.	DATE: FEB, 2021	PROJECT: CONSULTANCY SERVICES FOR CARRYING OUT FEASIBILITY STUDY, PREPARATION OF DETAILED PROJECT REPORT AND PROVIDING PRE-CONSTRUCTION SERVICES IN RESPECT OF 2 LANING WITH PAVED SHOULDER OF IMPHAL-JIRIBAM SECTION OF NH-37 (NH-53) (LENGTH- 220 KM) IN THE STATE OF MANIPUR	SUBMISSION TYPE : DRAFT DETAIL PROJECT REPORT			 S.MANDAL	 B. DAS	 A.DEY	 A. K.DAS
REVISIONS							(PACKAGE NO. III)						



HORIZONTAL ALIGNMENT REPORT

HIP CURVE NO.	HIP COORDINATE (E,N)	DEFLECTION ANGLE	ELEMENT	START		END		CHORD LENGTH	LENGTH	TRANSITION	RADIUS (M)	HAND OF ARC	SUPERELEVATION (%)	DESIGN SPEED (KM/H)	EXTRA WIDENING (M)
				CHAINAGE	COORDINATE (E,N)	CHAINAGE	COORDINATE (E,N)								
			Line	32989.851m	574577.4526,2742710.5566	33046.114m	574541.7241,2742667.0939		56.263m						
		3°26'15.72"	Transition	33046.114m	574541.7241,2742667.0939	33061.114m	574531.9704,2742655.7011		15.000m	15.000m					
185	574511.1123,2742629.8556	29°10'48.36"	Arc	33061.114m	574531.9704,2742655.7011	33124.775m	574478.8873,2742621.8179	62.975m	63.661m		125	Right	5.7	40	0.6
		3°26'15.72"	Transition	33124.775m	574478.8873,2742621.8179	33139.775m	574464.4470,2742617.7675		15.000m	15.000m					
			Line	33139.775m	574464.4470,2742617.7675	33141.480m	574462.7959,2742617.3398		1.706m						
		22°55'5.88"	Transition	33141.480m	574462.7959,2742617.3398	33181.480m	574426.0111,2742602.3645		40.000m	40.000m					
186	574407.3433,2742602.9756	26°18'27"	Arc	33181.480m	574426.0111,2742602.3645	33204.438m	574411.5652,2742584.7812	22.756m	22.958m		50	Left	7.0	40	1.2
		22°55'5.88"	Transition	33204.438m	574411.5652,2742584.7812	33244.438m	574404.0125,2742545.7897		40.000m	40.000m					
			Line	33244.438m	574404.0125,2742545.7897	33293.836m	574401.1402,2742496.4748		49.398m						
		5°22'17.4"	Transition	33293.836m	574401.1402,2742496.4748	33308.836m	574399.8011,2742481.5406		15.000m	15.000m					
187	574400.0771,2742478.2227	4°35'27.6"	Arc	33308.836m	574399.8011,2742481.5406	33315.247m	574398.5783,2742475.2498	6.409m	6.410m		80	Right	5.0	30	0.9
		5°22'17.4"	Transition	33315.247m	574398.5783,2742475.2498	33330.247m	574394.2252,2742460.9015		15.000m	15.000m					
			Line	33330.247m	574394.2252,2742460.9015	33338.652m	574391.5350,2742452.9388		8.405m						
		11°27'33.12"	Transition	33338.652m	574391.5350,2742452.9388	33358.652m	574386.4187,2742433.6411		20.000m	20.000m					
188	574380.1213,2742419.1551	31°7'50.52"	Arc	33358.652m	574386.4187,2742433.6411	33385.818m	574390.3188,2742407.0923	26.834m	27.167m		50	Left	7.0	30	1.2
		11°27'33.12"	Transition	33385.818m	574390.3188,2742407.0923	33405.818m	574400.7690,2742390.0813		20.000m	20.000m					
			Line	33405.818m	574400.7690,2742390.0813	33512.098m	574462.3071,2742303.4300		106.280m						
		8°57'9"	Transition	33512.098m	574462.3071,2742303.4300	33537.098m	574477.8070,2742283.8495		25.000m	25.000m					
189	574482.1474,2742275.4930	12°25'50.88"	Arc	33537.098m	574477.8070,2742283.8495	33554.455m	574491.1831,2742272.8425	17.323m	17.357m		80	Left	5.0	30	0.9
		8°57'9"	Transition	33554.455m	574491.1831,2742272.8425	33579.455m	574513.3812,2742261.4018		25.000m	25.000m					
			Line	33579.455m	574513.3812,2742261.4018	33601.079m	574533.0926,2742252.5089		21.625m						
		28°38'52.44"	Transition	33601.079m	574533.0926,2742252.5089	33631.079m	574557.7429,2742235.9997		30.000m	30.000m					
190	574598.7624,2742222.8818	65°23'45.96"	Arc	33631.079m	574557.7429,2742235.9997	33665.321m	574560.2135,2742203.6813	32.413m	34.241m		30	Right	7.0	30	1.5
		28°38'52.44"	Transition	33665.321m	574560.2135,2742203.6813	33695.321m	574538.3590,2742183.6171		30.000m	30.000m					
			Line	33695.321m	574538.3590,2742183.6171	33818.086m	574435.4286,2742116.7082		122.766m						
		5°43'46.56"	Transition	33818.086m	574435.4286,2742116.7082	33838.086m	574419.0399,2742105.2603		20.000m	20.000m					
191	574355.9588,2742065.0497	69°2'3.84"	Arc	33838.086m	574419.0399,2742105.2603	33958.574m	574386.4205,2741996.7255	113.331m	120.488m		100	Left	7.0	40	0.9
		5°43'46.56"	Transition	33958.574m	574386.4205,2741996.7255	33978.574m	574393.7828,2741978.1394		20.000m	20.000m					
			Line	33978.574m	574393.7828,2741978.1394	34078.144m	574433.5164,2741886.8411		99.570m						
192	574456.8204,2741833.2940	22°1'51.6"	Arc	34078.144m	574433.5164,2741886.8411	34193.498m	574458.3369,2741774.9154	114.645m	115.354m		300	Right	Normal Camber	40	0.6
			Line	34193.498m	574458.3369,2741774.9154	34273.924m	574460.4253,2741694.5168		80.426m						
		5°22'17.4"	Transition	34273.924m	574460.4253,2741694.5168	34288.924m	574460.3462,2741679.5229		15.000m	15.000m					
193	574460.9430,2741674.5887	6°54'17.64"	Arc	34288.924m	574460.3462,2741679.5229	34298.565m	574459.1159,2741669.9666	9.635m	9.641m		80	Right	5.0	30	0.9
		5°22'17.4"	Transition	34298.565m	574459.1159,2741669.9666	34313.565m	574455.3948,2741655.4415		15.000m	15.000m					
			Line	34313.565m	574455.3948,2741655.4415	34331.224m	574450.4798,2741638.4796		17.660m						
		7°9'43.2"	Transition	34331.224m	574450.4798,2741638.4796	34346.224m	574446.9112,2741623.9210		15.000m	15.000m					
194	574443.6629,2741614.9542	17°13'52.68"	Arc	34346.224m	574446.9112,2741623.9210	34364.269m	574446.7912,2741605.9448	17.977m	18.045m		60	Left	6.7	30	1.2
		7°9'43.2"	Transition	34364.269m	574446.7912,2741605.9448	34379.269m	574450.1653,2741591.3399		15.000m	15.000m					
			Line	34379.269m	574450.1653,2741591.3399	34495.584m	574481.0444,2741479.1984		116.315m						
		28°38'52.44"	Transition	34495.584m	574481.0444,2741479.1984	34525.584m	574484.0768,2741449.6857		30.000m	30.000m					
195	574509.3770,2741376.3051	85°8'9.24"	Arc	34525.584m	574484.0768,2741449.6857	34570.161m	574450.4992,2741426.8840	40.588m	44.577m		30	Right	7.0	30	1.5
		28°38'52.44"	Transition	34570.161m	574450.4992,2741426.8840	34600.161m	574424.1851,2741440.5865		30.000m	30.000m					
			Line	34600.161m	574424.1851,2741440.5865	34763.352m	574293.9176,2741538.8798		163.191m						
		28°38'52.44"	Transition	34763.352m	574293.9176,2741538.8798	34793.352m	574267.6035,2741552.5823		30.000m	30.000m					
196	574252.5059,2741570.1269	42°21'31.32"	Arc	34793.352m	574267.6035,2741552.5823	34815.531m	574246.4641,2741547.7831	21.677m	22.179m		30	Left	7.0	30	1.5
		28°38'52.44"	Transition	34815.531m	574246.4641,2741547.7831	34845.531m	574228.6464,2741524.0614		30.000m	30.000m					
			Line	34845.531m	574228.6464,2741524.0614	34875.868m	574214.6939,2741497.1234		30.337m						
		28°38'52.44"	Transition	34875.868m	574214.6939,2741497.1234	34905.868m	574196.8762,2741473.4017		30.000m	30.000m					

					Scale :- NTS		CLIENT: NATIONAL HIGHWAYS AND INFRASTRUCTURE DEVELOPMENT CORPORATION LTD. PTI Building, 3rd Floor, 4, Parliament Street, New Delhi - 110001	TITLE : HORIZONTAL ALIGNMENT REPORT	CONSULTANT :  CE TESTING COMPANY PVT. LTD. 124-A, N.S.C. Bose Road, Kolkata - 700092.	DWG NO :-CET/4047/NHIDCL/NH-37/I-J/DDPR/HAR			
										REVISION MKD. - R2		SHEET NO. - 01	
										Drawn By	Designed By	Checked By	Issued By
MKD.	DATE	DESCRIPTION	CHKD.	APPRD.	DATE: FEB, 2021	PROJECT: CONSULTANCY SERVICES FOR CARRYING OUT FEASIBILITY STUDY, PREPARATION OF DETAILED PROJECT REPORT AND PROVIDING PRE-CONSTRUCTION SERVICES IN RESPECT OF 2 LANING WITH PAVED SHOULDER OF IMPHAL-JIRIBAM SECTION OF NH-37 (NH-53) (LENGTH- 220 KM) IN THE STATE OF MANIPUR		SUBMISSION TYPE : DRAFT DETAIL PROJECT REPORT					
REVISIONS								(PACKAGE NO. III)		S.MANDAL	B. DAS	A.DEY	A. K.DAS

HIP CURVE NO.	HIP COORDINATE (E,N)	DEFLECTION ANGLE	ELEMENT	START		END		CHORD LENGTH	LENGTH	TRANSITION	RADIUS (M)	HAND OF ARC	SUPERELEVATION (%)	DESIGN SPEED (KM/H)	EXTRA WIDENING (M)
				CHAINAGE	COORDINATE (E,N)	CHAINAGE	COORDINATE (E,N)								
			Line	32989.851m	574577.4526,2742710.5566	33046.114m	574541.7241,2742667.0939		56.263m						
197	574173.5079,2741417.6059	77°18'6.84"	Arc	34905.868m	574196.8762,2741473.4017	34946.343m	574159.5267,2741476.4597	37.474m	40.475m		30	Right	7.0	30	1.5
		28°38'52.44"	Transition	34946.343m	574159.5267,2741476.4597	34976.343m	574145.8048,2741502.7637		30.000m	30.000m					
			Line	34976.343m	574145.8048,2741502.7637	35075.408m	574115.1585,2741596.9689		99.065m						
		4°17'49.92"	Transition	35075.408m	574115.1585,2741596.9689	35090.408m	574110.8772,2741611.3410		15.000m	15.000m					
198	574103.3101,2741633.3902	25°36'52.92"	Arc	35090.408m	574110.8772,2741611.3410	35135.114m	574110.1685,2741655.6701	44.335m	44.706m		100	Right	4.0	30	0.9
		4°17'49.92"	Transition	35135.114m	574110.1685,2741655.6701	35150.114m	574113.9882,2741670.1717		15.000m	15.000m					
			Line	35150.114m	574113.9882,2741670.1717	35156.796m	574115.8512,2741676.5891		6.682m						
		7°9'43.2"	Transition	35156.796m	574115.8512,2741676.5891	35171.796m	574119.4272,2741691.1459		15.000m	15.000m					
199	574141.5087,2741764.9685	94°48'7.56"	Arc	35171.796m	574119.4272,2741691.1459	35271.073m	574064.5902,2741760.3965	88.333m	99.276m		60	Left	6.7	30	1.2
		7°9'43.2"	Transition	35271.073m	574064.5902,2741760.3965	35286.073m	574049.6013,2741760.2525		15.000m	15.000m					
			Line	35286.073m	574049.6013,2741760.2525	35370.513m	573965.2722,2741755.9254		84.440m						
		28°38'52.44"	Transition	35370.513m	573965.2722,2741755.9254	35400.513m	573935.8003,2741759.3310		30.000m	30.000m					
200	573917.6674,2741753.4826	35°28'56.28"	Arc	35400.513m	573935.8003,2741759.3310	35419.091m	573922.5276,2741771.9050	18.283m	18.579m		30	Right	7.0	30	1.5
		28°38'52.44"	Transition	35419.091m	573922.5276,2741771.9050	35449.091m	573917.5349,2741801.1499		30.000m	30.000m					
			Line	35449.091m	573917.5349,2741801.1499	35454.963m	573917.5185,2741807.0217		5.872m						
		17°54'17.64"	Transition	35454.963m	573917.5185,2741807.0217	35479.963m	573914.8637,2741831.7714		25.000m	25.000m					
201	573917.4277,2741839.6933	17°4'1.56"	Arc	35479.963m	573914.8637,2741831.7714	35491.878m	573909.5487,2741842.3862	11.871m	11.915m		40	Left	7.0	30	1.5
		17°54'17.64"	Transition	35491.878m	573909.5487,2741842.3862	35516.878m	573891.3225,2741859.3391		25.000m	25.000m					
			Line	35516.878m	573891.3225,2741859.3391	35563.052m	573854.4290,2741887.1038		46.174m						
		17°54'17.64"	Transition	35563.052m	573854.4290,2741887.1038	35588.052m	573836.2028,2741904.0567		25.000m	25.000m					
202	573830.9017,2741904.8095	9°32'49.92"	Arc	35588.052m	573836.2028,2741904.0567	35594.717m	573832.8381,2741909.8013	6.657m	6.665m		40	Right	7.0	30	1.5
		17°54'17.64"	Transition	35594.717m	573832.8381,2741909.8013	35619.717m	573826.9670,2741933.9907		25.000m	25.000m					
			Line	35619.717m	573826.9670,2741933.9907	35680.022m	573818.9087,2741993.7546		60.305m						
		28°38'52.44"	Transition	35680.022m	573818.9087,2741993.7546	35700.022m	573813.0573,2742012.6479		20.000m	20.000m					
203	573717.4092,2742746.5184	119°31'15.6"	Arc	35700.022m	573813.0573,2742012.6479	35741.743m	573778.6950,2742008.9830	34.557m	41.721m		20	Left	7.0	20	1.5
		28°38'52.44"	Transition	35741.743m	573778.6950,2742008.9830	35761.743m	573776.9600,2741989.2805		20.000m	20.000m					
			Line	35761.743m	573776.9600,2741989.2805	35788.584m	573779.0644,2741962.5216		26.842m						
		14°19'26.04"	Transition	35788.584m	573779.0644,2741962.5216	35803.584m	573778.9925,2741947.5634		15.000m	15.000m					
204	573781.1080,2741936.5360	34°22'10.56"	Arc	35803.584m	573778.9925,2741947.5634	35821.580m	573770.9411,2741931.7700	17.727m	17.996m		30	Right	5.9	20	1.5
		14°19'26.04"	Transition	35821.580m	573770.9411,2741931.7700	35836.580m	573758.8782,2741922.9247		15.000m	15.000m					
			Line	35836.580m	573758.8782,2741922.9247	35893.068m	573710.7035,2741893.4273		56.488m						
		6°36'39.96"	Transition	35893.068m	573710.7035,2741893.4273	35908.068m	573697.6271,2741886.0964		15.000m	15.000m					
205	573646.9017,2741854.3614	78°39'21.24"	Arc	35908.068m	573697.6271,2741886.0964	35997.300m	573617.8483,2741906.6689	82.389m	89.232m		65	Right	6.2	30	0.9
		6°36'39.96"	Transition	35997.300m	573617.8483,2741906.6689	36012.300m	573609.9476,2741919.4092		15.000m	15.000m					
			Line	36012.300m	573609.9476,2741919.4092	36123.208m	573555.1635,2742015.8420		110.908m						
206	573546.3262,2742031.3977	11°21'8.28"	Arc	36123.208m	573555.1635,2742015.8420	36158.873m	573540.7238,2742048.3887	35.606m	35.664m		180	Right	Normal Camber	30	0.6
			Line	36158.873m	573540.7238,2742048.3887	36162.080m	573539.7196,2742051.4341		3.207m						
		28°38'52.44"	Transition	36162.080m	573539.7196,2742051.4341	36182.080m	573530.5019,2742068.9335		20.000m	20.000m					
207	573514.9855,2742126.4477	89°8'44.16"	Arc	36182.080m	573530.5019,2742068.9335	36213.197m	573502.4385,2742068.2135	28.073m	31.118m		20	Left	7.0	20	1.5
		28°38'52.44"	Transition	36213.197m	573502.4385,2742068.2135	36233.197m	573494.1302,2742050.2645		20.000m	20.000m					
			Line	36233.197m	573494.1302,2742050.2645	36264.012m	573485.9940,2742020.5435		30.815m						
		16°42'40.68"	Transition	36264.012m	573485.9940,2742020.5435	36299.012m	573473.5689,2741987.9646		35.000m	35.000m					
208	573462.3856,2741934.3032	66°8'42.72"	Arc	36299.012m	573473.5689,2741987.9646	36368.279m	573414.1750,2741960.3868	65.484m	69.267m		60	Right	7.0	40	1.2
		16°42'40.68"	Transition	36368.279m	573414.1750,2741960.3868	36403.279m	573381.2689,2741971.9175		35.000m	35.000m					
			Line	36403.279m	573381.2689,2741971.9175	36537.016m	573259.9416,2742028.1778		133.737m						
		28°38'52.44"	Transition	36537.016m	573259.9416,2742028.1778	36567.016m	573231.3318,2742036.0306		30.000m	30.000m					
209	573197.7463,2742057.0182	62°18'38.52"	Arc	36567.016m	573231.3318,2742036.0306	36599.641m	573205.8809,2742018.2588	31.042m	32.626m		30	Left	7.0	30	1.5
		28°38'52.44"	Transition	36599.641m	573205.8809,2742018.2588	36629.641m	573203.3984,2741988.6949		30.000m	30.000m					
			Line	36629.641m	573203.3984,2741988.6949	36672.088m	573206.8978,2741946.3927		42.447m						
		24°54'40.32"	Transition	36672.088m	573206.8978,2741946.3927	36692.088m	573205.6659,2741926.5985		20.000m	20.000m					

					Scale :- NTS		CLIENT: NATIONAL HIGHWAYS AND INFRASTRUCTURE DEVELOPMENT CORPORATION LTD. PTI Building, 3rd Floor, 4, Parliament Street, New Delhi - 110001	TITLE : HORIZONTAL ALIGNMENT REPORT	CONSULTANT :  CE TESTING COMPANY PVT. LTD. 124-A, N.S.C. Bose Road, Kolkata - 700092.	DWG NO :-CET/4047/NHIDCL/NH-37/I-J/DDPR/HAR			
										REVISION MKD. - R2		SHEET NO. - 02	
										Drawn By	Designed By	Checked By	Issued By
MKD.	DATE	DESCRIPTION	CHKD.	APPRD.	DATE: FEB, 2021	PROJECT: CONSULTANCY SERVICES FOR CARRYING OUT FEASIBILITY STUDY, PREPARATION OF DETAILED PROJECT REPORT AND PROVIDING PRE-CONSTRUCTION SERVICES IN RESPECT OF 2 LANING WITH PAVED SHOULDER OF IMPHAL-JIRIBAM SECTION OF NH-37 (NH-53) (LENGTH- 220 KM) IN THE STATE OF MANIPUR		SUBMISSION TYPE : DRAFT DETAIL PROJECT REPORT					
REVISIONS								(PACKAGE NO. III)		S.MANDAL	B. DAS	A.DEY	A. K.DAS

HIP CURVE NO.	HIP COORDINATE (E,N)	DEFLECTION ANGLE	ELEMENT	START		END		CHORD LENGTH	LENGTH	TRANSITION	RADIUS (M)	HAND OF ARC	SUPERELEVATION (%)	DESIGN SPEED (KM/H)	EXTRA WIDENING (M)
				CHAINAGE	COORDINATE (E,N)	CHAINAGE	COORDINATE (E,N)								
			Line	32989.851m	574577.4526,2742710.5566	33046.114m	574541.7241,2742667.0939		56.263m						
210	573227.4304,2741698.1892	118°50'49.2"	Arc	36692.088m	573205.6659,2741926.5985	36739.797m	573166.7120,2741919.4532	39.604m	47.708m		23	Right	7.0	20	1.5
		24°54'40.32"	Transition	36739.797m	573166.7120,2741919.4532	36759.797m	573158.5350,2741937.5215		20.000m	20.000m					
			Line	36759.797m	573158.5350,2741937.5215	36771.208m	573155.3783,2741948.4873		11.411m						
		11°27'33.12"	Transition	36771.208m	573155.3783,2741948.4873	36791.208m	573148.5901,2741967.2622		20.000m	20.000m					
211	573148.1237,2741973.6885	12°50'32.64"	Arc	36791.208m	573148.5901,2741967.2622	36802.415m	573142.3461,2741976.5405	11.184m	11.207m		50	Left	7.0	30	1.2
		11°27'33.12"	Transition	36802.415m	573142.3461,2741976.5405	36822.415m	573127.5093,2741989.8989		20.000m	20.000m					
			Line	36822.415m	573127.5093,2741989.8989	36826.738m	573124.1110,2741992.5712		4.323m						
		6°8'19.68"	Transition	36826.738m	573124.1110,2741992.5712	36841.738m	573112.0026,2742001.4118		15.000m	15.000m					
212	573107.6887,2742005.4850	9°20'49.56"	Arc	36841.738m	573112.0026,2742001.4118	36853.157m	573101.8723,2742006.6556	11.407m	11.420m		70	Left	5.7	30	0.9
		6°8'19.68"	Transition	36853.157m	573101.8723,2742006.6556	36868.157m	573087.6632,2742011.4379		15.000m	15.000m					
			Line	36868.157m	573087.6632,2742011.4379	36883.387m	573073.0650,2742015.7774		15.230m						
		28°38'52.44"	Transition	36883.387m	573073.0650,2742015.7774	36913.387m	573046.4187,2742028.8222		30.000m	30.000m					
213	573015.1049,2742033.0068	53°51'58.68"	Arc	36913.387m	573046.4187,2742028.8222	36941.591m	573038.0821,2742054.6890	27.177m	28.204m		30	Right	7.0	30	1.5
		28°38'52.44"	Transition	36941.591m	573038.0821,2742054.6890	36971.591m	573052.0965,2742080.8383		30.000m	30.000m					
			Line	36971.591m	573052.0965,2742080.8383	37048.148m	573098.9313,2742141.3974		76.557m						
		16°42'40.68"	Transition	37048.148m	573098.9313,2742141.3974	37083.148m	573117.4863,2742170.9182		35.000m	35.000m					
214	573142.2229,2742197.3751	49°1'35.04"	Arc	37083.148m	573117.4863,2742170.9182	37134.488m	573114.4407,2742220.6133	49.788m	51.340m		60	Left	7.0	40	1.2
		16°42'40.68"	Transition	37134.488m	573114.4407,2742220.6133	37169.488m	573092.4196,2742247.6474		35.000m	35.000m					
			Line	37169.488m	573092.4196,2742247.6474	37202.479m	573069.2013,2742271.0843		32.991m						
		28°38'52.44"	Transition	37202.479m	573069.2013,2742271.0843	37232.479m	573052.0986,2742295.3266		30.000m	30.000m					
215	573037.4664,2742303.1180	30°47'48.48"	Arc	37232.479m	573052.0986,2742295.3266	37248.604m	573051.9081,2742311.2572	15.932m	16.125m		30	Right	7.0	30	1.5
		28°38'52.44"	Transition	37248.604m	573051.9081,2742311.2572	37278.604m	573068.4261,2742335.9016		30.000m	30.000m					
			Line	37278.604m	573068.4261,2742335.9016	37300.232m	573083.2757,2742351.6260		21.628m						
		5°43'46.56"	Transition	37300.232m	573083.2757,2742351.6260	37320.232m	573096.5095,2742366.6097		20.000m	20.000m					
216	573101.7688,2742371.2086	7°44'11.04"	Arc	37320.232m	573096.5095,2742366.6097	37333.734m	573104.0080,2742377.8265	13.492m	13.503m		100	Left	7.0	40	0.9
		5°43'46.56"	Transition	37333.734m	573104.0080,2742377.8265	37353.734m	573112.7951,2742395.7828		20.000m	20.000m					
			Line	37353.734m	573112.7951,2742395.7828	37399.209m	573131.4114,2742437.2728		45.475m						
		2°23'14.28"	Transition	37399.209m	573131.4114,2742437.2728	37414.209m	573137.7409,2742450.8706		15.000m	15.000m					
217	573138.7488,2742453.6257	1°51'7.92"	Arc	37414.209m	573137.7409,2742450.8706	37420.028m	573140.4258,2742456.0328	5.819m	5.819m		180	Right	4.0	40	0.6
		2°23'14.28"	Transition	37420.028m	573140.4258,2742456.0328	37435.028m	573147.9244,2742469.0226		15.000m	15.000m					
			Line	37435.028m	573147.9244,2742469.0226	37455.709m	573158.5112,2742486.7875		20.680m						
		17°54'17.64"	Transition	37455.709m	573158.5112,2742486.7875	37480.709m	573168.9634,2742509.3784		25.000m	25.000m					
218	573181.0299,2742524.5746	39°47'13.56"	Arc	37480.709m	573168.9634,2742509.3784	37508.485m	573165.6430,2742536.3970	27.222m	27.777m		40	Left	7.0	30	1.5
		17°54'17.64"	Transition	37508.485m	573165.6430,2742536.3970	37533.485m	573150.0318,2742555.7848		25.000m	25.000m					
			Line	37533.485m	573150.0318,2742555.7848	37543.448m	573143.0113,2742562.8533		9.963m						
		5°43'46.56"	Transition	37543.448m	573143.0113,2742562.8533	37563.448m	573129.4042,2742577.4988		20.000m	20.000m					
219	573124.9635,2742581.0246	6°15'39.96"	Arc	37563.448m	573129.4042,2742577.4988	37574.375m	573122.9929,2742586.3413	10.922m	10.928m		100	Right	7.0	40	0.9
		5°43'46.56"	Transition	37574.375m	573122.9929,2742586.3413	37594.375m	573113.3028,2742603.8270		20.000m	20.000m					
			Line	37594.375m	573113.3028,2742603.8270	37630.517m	573096.8475,2742636.0049		36.141m						
		17°54'17.64"	Transition	37630.517m	573096.8475,2742636.0049	37655.517m	573083.2731,2742656.8695		25.000m	25.000m					
220	573081.2996,2742666.4087	20°21'23.76"	Arc	37655.517m	573083.2731,2742656.8695	37669.728m	573071.6691,2742664.9442	14.137m	14.212m		40	Left	7.0	30	1.5
		17°54'17.64"	Transition	37669.728m	573071.6691,2742664.9442	37694.728m	573047.3877,2742670.4219		25.000m	25.000m					
			Line	37694.728m	573047.3877,2742670.4219	37696.351m	573045.7761,2742670.6126		1.623m						
		17°54'17.64"	Transition	37696.351m	573045.7761,2742670.6126	37721.351m	573021.4947,2742676.0902		25.000m	25.000m					
221	573017.0914,2742674.0072	8°11'44.52"	Arc	37721.351m	573021.4947,2742676.0902	37727.073m	573016.4827,2742678.8401	5.717m	5.722m		40	Right	7.0	30	1.5
		17°54'17.64"	Transition	37727.073m	573016.4827,2742678.8401	37752.073m	572998.8176,2742696.3770		25.000m	25.000m					
			Line	37752.073m	572998.8176,2742696.3770	37753.557m	572997.8785,2742697.5266		1.484m						
		11°27'33.12"	Transition	37753.557m	572997.8785,2742697.5266	37773.557m	572984.2465,2742712.1125		20.000m	20.000m					

					Scale :- NTS		CLIENT: NATIONAL HIGHWAYS AND INFRASTRUCTURE DEVELOPMENT CORPORATION LTD. PTI Building, 3rd Floor, 4, Parliament Street, New Delhi - 110001	TITLE : HORIZONTAL ALIGNMENT REPORT	CONSULTANT :  CE TESTING COMPANY PVT. LTD. 124-A, N.S.C. Bose Road, Kolkata - 700092.	DWG NO :-CET/4047/NHIDCL/NH-37/I-J/DDPR/HAR			
										REVISION MKD. - R2		SHEET NO. - 03	
										Drawn By	Designed By	Checked By	Issued By
MKD.	DATE	DESCRIPTION	CHKD.	APPRD.	DATE: FEB, 2021	PROJECT: CONSULTANCY SERVICES FOR CARRYING OUT FEASIBILITY STUDY, PREPARATION OF DETAILED PROJECT REPORT AND PROVIDING PRE-CONSTRUCTION SERVICES IN RESPECT OF 2 LANING WITH PAVED SHOULDER OF IMPHAL-JIRIBAM SECTION OF NH-37 (NH-53) (LENGTH- 220 KM) IN THE STATE OF MANIPUR		SUBMISSION TYPE : DRAFT DETAIL PROJECT REPORT					
REVISIONS								(PACKAGE NO. III)		S.MANDAL	B. DAS	A.DEY	A. K.DAS

HIP CURVE NO.	HIP COORDINATE (E,N)	DEFLECTION ANGLE	ELEMENT	START		END		CHORD LENGTH	LENGTH	TRANSITION	RADIUS (M)	HAND OF ARC	SUPERELEVATION (%)	DESIGN SPEED (KM/H)	EXTRA WIDENING (M)
				CHAINAGE	COORDINATE (E,N)	CHAINAGE	COORDINATE (E,N)								
			Line	32989.851m	574577.4526,2742710.5566	33046.114m	574541.7241,2742667.0939		56.263m						
222	572978.7349,2742720.9611	20°57'31.68"	Arc	37773.557m	572984.2465,2742712.1125	37791.847m	572968.3106,2742720.8793	18.188m	18.290m		50	Left	7.0	30	1.2
		11°27'33.12"	Transition	37791.847m	572968.3106,2742720.8793	37811.847m	572948.6930,2742724.5846		20.000m	20.000m					
			Line	37811.847m	572948.6930,2742724.5846	37876.031m	572884.9713,2742732.2706		64.184m						
		28°38'52.44"	Transition	37876.031m	572884.9713,2742732.2706	37906.031m	572856.5113,2742740.6503		30.000m	30.000m					
223	572836.5373,2742738.1125	37°23'54.6"	Arc	37906.031m	572856.5113,2742740.6503	37925.613m	572845.2658,2742756.2568	19.236m	19.582m		30	Right	7.0	30	1.5
		28°38'52.44"	Transition	37925.613m	572845.2658,2742756.2568	37955.613m	572846.3234,2742785.9060		30.000m	30.000m					
			Line	37955.613m	572846.3234,2742785.9060	37960.003m	572847.2042,2742790.2076		4.391m						
		16°42'40.68"	Transition	37960.003m	572847.2042,2742790.2076	37995.003m	572850.8522,2742824.8841		35.000m	35.000m					
224	572857.0201,2742838.1464	21°17'30.48"	Arc	37995.003m	572850.8522,2742824.8841	38017.300m	572844.8216,2742846.2166	22.169m	22.297m		60	Left	7.0	40	1.2
		16°42'40.68"	Transition	38017.300m	572844.8216,2742846.2166	38052.300m	572823.5587,2742873.8510		35.000m	35.000m					
			Line	38052.300m	572823.5587,2742873.8510	38123.205m	572775.0728,2742925.5873		70.905m						
		5°43'46.56"	Transition	38123.205m	572775.0728,2742925.5873	38143.205m	572761.8963,2742940.6213		20.000m	20.000m					
225	572758.9528,2742942.7880	3°58'44.4"	Arc	38143.205m	572761.8963,2742940.6213	38150.150m	572757.8719,2742946.2794	6.943m	6.945m		100	Right	7.0	40	0.9
		5°43'46.56"	Transition	38150.150m	572757.8719,2742946.2794	38170.150m	572747.9932,2742963.6592		20.000m	20.000m					
			Line	38170.150m	572747.9932,2742963.6592	38171.186m	572747.5115,2742964.5764		1.036m						
		11°27'33.12"	Transition	38171.186m	572747.5115,2742964.5764	38191.186m	572737.0734,2742981.5948		20.000m	20.000m					
226	572734.0567,2742990.1995	18°21'7.56"	Arc	38191.186m	572737.0734,2742981.5948	38207.201m	572725.1596,2742992.1949	15.947m	16.015m		50	Left	7.0	30	1.2
		11°27'33.12"	Transition	38207.201m	572725.1596,2742992.1949	38227.201m	572707.0427,2743000.5829		20.000m	20.000m					
			Line	38227.201m	572707.0427,2743000.5829	38232.191m	572702.3849,2743002.3732		4.990m						
		7°9'43.2"	Transition	38232.191m	572702.3849,2743002.3732	38247.191m	572688.6294,2743008.3293		15.000m	15.000m					
227	572686.3120,2743008.5512	4°2'20.4"	Arc	38247.191m	572688.6294,2743008.3293	38251.421m	572684.9748,2743010.4569	4.229m	4.230m		60	Right	6.7	30	1.2
		7°9'43.2"	Transition	38251.421m	572684.9748,2743010.4569	38266.421m	572673.0038,2743019.4781		15.000m	15.000m					
			Line	38266.421m	572673.0038,2743019.4781	38310.201m	572639.1677,2743047.2599		43.780m						
		6°8'19.68"	Transition	38310.201m	572639.1677,2743047.2599	38325.201m	572627.2484,2743056.3538		15.000m	15.000m					
228	572610.0485,2743071.1686	34°17'18.24"	Arc	38325.201m	572627.2484,2743056.3538	38367.092m	572587.5991,2743067.8020	41.269m	41.891m		70	Left	5.7	30	0.9
		6°8'19.68"	Transition	38367.092m	572587.5991,2743067.8020	38382.092m	572572.6669,2743066.4610		15.000m	15.000m					
			Line	38382.092m	572572.6669,2743066.4610	38386.191m	572568.5999,2743065.9488		4.099m						
		17°54'17.64"	Transition	38386.191m	572568.5999,2743065.9488	38411.191m	572543.7138,2743065.4212		25.000m	25.000m					
229	572540.5725,2743062.4191	6°38'44.52"	Arc	38411.191m	572543.7138,2743065.4212	38415.831m	572539.2156,2743066.5469	4.637m	4.640m		40	Right	7.0	30	1.5
		17°54'17.64"	Transition	38415.831m	572539.2156,2743066.5469	38440.831m	572517.5114,2743078.7339		25.000m	25.000m					
			Line	38440.831m	572517.5114,2743078.7339	38442.844m	572515.8682,2743079.8964		2.013m						
		6°8'19.68"	Transition	38442.844m	572515.8682,2743079.8964	38457.844m	572503.3277,2743088.1126		15.000m	15.000m					
230	572496.3445,2743093.7086	14°4'25.68"	Arc	38457.844m	572503.3277,2743088.1126	38475.038m	572487.4368,2743094.5659	17.151m	17.194m		70	Left	5.7	30	0.9
		6°8'19.68"	Transition	38475.038m	572487.4368,2743094.5659	38490.038m	572472.7186,2743097.4194		15.000m	15.000m					
			Line	38490.038m	572472.7186,2743097.4194	38490.256m	572472.5029,2743097.4533		0.218m						
		4°17'49.92"	Transition	38490.256m	572472.5029,2743097.4533	38505.256m	572457.7511,2743100.1498		15.000m	15.000m					
231	572449.3108,2743101.0960	9°32'40.92"	Arc	38505.256m	572457.7511,2743100.1498	38521.915m	572441.9256,2743105.2905	16.639m	16.659m		100	Right	4.0	30	0.9
		4°17'49.92"	Transition	38521.915m	572441.9256,2743105.2905	38536.915m	572428.4053,2743111.7780		15.000m	15.000m					
			Line	38536.915m	572428.4053,2743111.7780	38545.295m	572420.9430,2743115.5909		8.380m						
		3°26'15.72"	Transition	38545.295m	572420.9430,2743115.5909	38560.295m	572407.4540,2743122.1465		15.000m	15.000m					
232	572399.0918,2743126.7561	8°38'24.36"	Arc	38560.295m	572407.4540,2743122.1465	38579.145m	572389.6812,2743128.3731	18.832m	18.850m		125	Left	5.7	40	0.6
		3°26'15.72"	Transition	38579.145m	572389.6812,2743128.3731	38594.145m	572375.0502,2743131.6692		15.000m	15.000m					
			Line	38594.145m	572375.0502,2743131.6692	38641.507m	572328.6475,2743141.1519		47.362m						
		17°54'17.64"	Transition	38641.507m	572328.6475,2743141.1519	38666.507m	572304.9096,2743148.6424		25.000m	25.000m					
233	572301.0854,2743146.7844	6°21'32.04"	Arc	38666.507m	572304.9096,2743148.6424	38670.946m	572301.1730,2743151.0352	4.437m	4.439m		40	Right	7.0	30	1.5
		17°54'17.64"	Transition	38670.946m	572301.1730,2743151.0352	38695.946m	572284.4383,2743169.4620		25.000m	25.000m					
			Line	38695.946m	572284.4383,2743169.4620	38698.148m	572283.1355,2743171.2367		2.202m						
		28°38'52.44"	Transition	38698.148m	572283.1355,2743171.2367	38728.148m	572261.8625,2743191.9163		30.000m	30.000m					

					Scale :- NTS		CLIENT: NATIONAL HIGHWAYS AND INFRASTRUCTURE DEVELOPMENT CORPORATION LTD. PTI Building, 3rd Floor, 4, Parliament Street, New Delhi - 110001	TITLE : HORIZONTAL ALIGNMENT REPORT	CONSULTANT :  CE TESTING COMPANY PVT. LTD. 124-A, N.S.C. Bose Road, Kolkata - 700092.	DWG NO :-CET/4047/NHIDCL/NH-37/I-J/DDPR/HAR			
										REVISION MKD. - R2		SHEET NO. - 04	
										Drawn By	Designed By	Checked By	Issued By
MKD.	DATE	DESCRIPTION	CHKD.	APPRD.	DATE: FEB, 2021	PROJECT: CONSULTANCY SERVICES FOR CARRYING OUT FEASIBILITY STUDY, PREPARATION OF DETAILED PROJECT REPORT AND PROVIDING PRE-CONSTRUCTION SERVICES IN RESPECT OF 2 LANING WITH PAVED SHOULDER OF IMPHAL-JIRIBAM SECTION OF NH-37 (NH-53) (LENGTH- 220 KM) IN THE STATE OF MANIPUR		SUBMISSION TYPE : DRAFT DETAIL PROJECT REPORT					
REVISIONS								(PACKAGE NO. III)		S.MANDAL	B. DAS	A.DEY	A. K.DAS

HIP CURVE NO.	HIP COORDINATE (E,N)	DEFLECTION ANGLE	ELEMENT	START		END		CHORD LENGTH	LENGTH	TRANSITION	RADIUS (M)	HAND OF ARC	SUPERELEVATION (%)	DESIGN SPEED (KM/H)	EXTRA WIDENING (M)
				CHAINAGE	COORDINATE (E,N)	CHAINAGE	COORDINATE (E,N)								
			Line	32989.851m	574577.4526,2742710.5566	33046.114m	574541.7241,2742667.0939		56.263m						
234	572259.0686,2743204.0220	21°47'55.68"	Arc	38728.148m	572261.8625,2743191.9163	38739.562m	572250.8626,2743194.6938	11.345m	11.414m		30	Left	7.0	30	1.5
		28°38'52.44"	Transition	38739.562m	572250.8626,2743194.6938	38769.562m	572222.3222,2743186.5924		30.000m	30.000m					
			Line	38769.562m	572222.3222,2743186.5924	38775.862m	572216.6298,2743183.8923		6.300m						
		17°54'17.64"	Transition	38775.862m	572216.6298,2743183.8923	38800.862m	572193.1533,2743175.6191		25.000m	25.000m					
235	572187.5893,2743170.1177	15°51'47.16"	Arc	38800.862m	572193.1533,2743175.6191	38811.936m	572182.1145,2743175.7078	11.039m	11.075m		40	Right	7.0	30	1.5
		17°54'17.64"	Transition	38811.936m	572182.1145,2743175.7078	38836.936m	572158.7739,2743184.3573		25.000m	25.000m					
			Line	38836.936m	572158.7739,2743184.3573	38907.790m	572095.2524,2743215.7472		70.854m						
		2°23'14.28"	Transition	38907.790m	572095.2524,2743215.7472	38922.790m	572081.7148,2743222.2047		15.000m	15.000m					
236	572024.0658,2743250.9250	38°45'51.48"	Arc	38922.790m	572081.7148,2743222.2047	39044.572m	571962.6153,2743231.6353	119.472m	121.782m		180	Left	4.0	40	0.6
		2°23'14.28"	Transition	39044.572m	571962.6153,2743231.6353	39059.572m	571948.2301,2743227.3888		15.000m	15.000m					
			Line	39059.572m	571948.2301,2743227.3888	39065.147m	571942.9063,2743225.7366		5.574m						
		8°57'9"	Transition	39065.147m	571942.9063,2743225.7366	39090.147m	571918.7027,2743219.5858		25.000m	25.000m					
237	571904.5619,2743213.8361	20°5'44.88"	Arc	39090.147m	571918.7027,2743219.5858	39118.206m	571890.8004,2743220.4423	27.915m	28.059m		80	Right	7.0	40	0.9
		8°57'9"	Transition	39118.206m	571890.8004,2743220.4423	39143.206m	571867.0197,2743228.0660		25.000m	25.000m					
			Line	39143.206m	571867.0197,2743228.0660	39162.089m	571849.3624,2743234.7588		18.883m						
		16°42'40.68"	Transition	39162.089m	571849.3624,2743234.7588	39197.089m	571815.7131,2743243.8962		35.000m	35.000m					
238	571808.9111,2743250.0914	12°32'47.76"	Arc	39197.089m	571815.7131,2743243.8962	39210.228m	571802.6104,2743243.3869	13.113m	13.139m		60	Left	7.0	40	1.2
		16°42'40.68"	Transition	39210.228m	571802.6104,2743243.3869	39245.228m	571769.7720,2743231.6652		35.000m	35.000m					
			Line	39245.228m	571769.7720,2743231.6652	39247.506m	571767.7108,2743230.6948		2.278m						
		11°27'33.12"	Transition	39247.506m	571767.7108,2743230.6948	39267.506m	571749.1218,2743223.4128		20.000m	20.000m					
239	571741.5480,2743218.3776	18°18'17.64"	Arc	39267.506m	571749.1218,2743223.4128	39283.480m	571733.2667,2743222.1374	15.906m	15.974m		50	Right	7.0	30	1.2
		11°27'33.12"	Transition	39283.480m	571733.2667,2743222.1374	39303.480m	571713.7527,2743226.3544		20.000m	20.000m					
			Line	39303.480m	571713.7527,2743226.3544	39308.169m	571709.2452,2743227.6480		4.689m						
		28°38'52.44"	Transition	39308.169m	571709.2452,2743227.6480	39338.169m	571679.7670,2743230.9982		30.000m	30.000m					
240	571652.0388,2743244.0655	52°44'8.16"	Arc	39338.169m	571679.7670,2743230.9982	39365.782m	571659.0586,2743214.2270	26.648m	27.612m		30	Left	7.0	30	1.5
		28°38'52.44"	Transition	39365.782m	571659.0586,2743214.2270	39395.782m	571656.2097,2743184.6962		30.000m	30.000m					
			Line	39395.782m	571656.2097,2743184.6962	39590.351m	571669.8454,2742990.6053		194.569m						
		16°42'40.68"	Transition	39590.351m	571669.8454,2742990.6053	39625.351m	571668.9036,2742955.7502		35.000m	35.000m					
241	571673.3883,2742940.1747	23°40'27.12"	Arc	39625.351m	571668.9036,2742955.7502	39650.142m	571658.6840,2742933.3562	24.616m	24.792m		60	Right	7.0	40	1.2
		16°42'40.68"	Transition	39650.142m	571658.6840,2742933.3562	39685.142m	571632.9720,2742909.8051		35.000m	35.000m					
			Line	39685.142m	571632.9720,2742909.8051	39714.065m	571609.8493,2742892.4303		28.923m						
		2°51'53.28"	Transition	39714.065m	571609.8493,2742892.4303	39729.065m	571598.0106,2742883.2218		15.000m	15.000m					
242	571588.1819,2742876.1490	9°9'20.88"	Arc	39729.065m	571598.0106,2742883.2218	39753.035m	571580.8928,2742866.4795	23.944m	23.970m		150	Left	4.7	40	0.6
		2°51'53.28"	Transition	39753.035m	571580.8928,2742866.4795	39768.035m	571571.4240,2742854.8480		15.000m	15.000m					
			Line	39768.035m	571571.4240,2742854.8480	39769.652m	571570.4240,2742853.5768		1.617m						
		28°38'52.44"	Transition	39769.652m	571570.4240,2742853.5768	39799.652m	571548.4731,2742833.6182		30.000m	30.000m					
243	571538.1092,2742812.5014	42°56'36.24"	Arc	39799.652m	571548.4731,2742833.6182	39822.138m	571526.5201,2742832.9714	21.963m	22.485m		30	Right	7.0	30	1.5
		28°38'52.44"	Transition	39822.138m	571526.5201,2742832.9714	39852.138m	571503.4322,2742851.6030		30.000m	30.000m					
			Line	39852.138m	571503.4322,2742851.6030	39894.750m	571475.1581,2742883.4847		42.613m						
		3°26'15.72"	Transition	39894.750m	571475.1581,2742883.4847	39909.750m	571464.9847,2742894.5041		15.000m	15.000m					
244	571462.9472,2742897.2536	3°5'23.28"	Arc	39909.750m	571464.9847,2742894.5041	39916.491m	571460.0915,2742899.1393	6.740m	6.741m		125	Left	5.7	40	0.6
		3°26'15.72"	Transition	39916.491m	571460.0915,2742899.1393	39931.491m	571448.5378,2742908.7017		15.000m	15.000m					
			Line	39931.491m	571448.5378,2742908.7017	39956.705m	571428.7962,2742924.3861		25.214m						
		3°26'15.72"	Transition	39956.705m	571428.7962,2742924.3861	39971.705m	571417.2425,2742933.9485		15.000m	15.000m					
245	571412.1892,2742937.5802	5°38'11.4"	Arc	39971.705m	571417.2425,2742933.9485	39984.002m	571408.5087,2742942.5981	12.292m	12.297m		125	Right	5.7	40	0.6
		3°26'15.72"	Transition	39984.002m	571408.5087,2742942.5981	39999.002m	571398.8350,2742954.0588		15.000m	15.000m					
			Line	39999.002m	571398.8350,2742954.0588	40003.501m	571396.0025,2742957.5539		4.499m						
		8°57'9"	Transition	40003.501m	571396.0025,2742957.5539	40028.501m	571379.2908,2742976.1110		25.000m	25.000m					
246	571377.6465,2742980.2046	5°32'11.4"	Arc	40028.501m	571379.2908,2742976.1110	40036.231m	571373.3074,2742981.0010	7.727m	7.730m		80	Left	7.0	40	0.9
		8°57'9"	Transition	40036.231m	571373.3074,2742981.0010	40061.231m	571351.7947,2742993.6835		25.000m	25.000m					
			Line	40061.231m	571351.7947,2742993.6835	40117.338m	571302.0439,2743019.6233		56.107m						
		5°43'46.56"	Transition	40117.338m	571302.0439,2743019.6233	40137.338m	571284.6355,2743029.4513		20.000m	20.000m					

					Scale :- NTS		CLIENT: NATIONAL HIGHWAYS AND INFRASTRUCTURE DEVELOPMENT CORPORATION LTD. PTI Building, 3rd Floor, 4, Parliament Street, New Delhi - 110001	TITLE : HORIZONTAL ALIGNMENT REPORT	CONSULTANT :  CE TESTING COMPANY PVT. LTD. 124-A, N.S.C. Bose Road, Kolkata - 700092.	DWG NO :-CET/4047/NHIDCL/NH-37/I-J/DDPR/HAR			
										REVISION MKD. - R2		SHEET NO. - 05	
										Drawn By	Designed By	Checked By	Issued By
MKD.	DATE	DESCRIPTION	CHKD.	APPRD.	DATE: FEB, 2021	PROJECT: CONSULTANCY SERVICES FOR CARRYING OUT FEASIBILITY STUDY, PREPARATION OF DETAILED PROJECT REPORT AND PROVIDING PRE-CONSTRUCTION SERVICES IN RESPECT OF 2 LANING WITH PAVED SHOULDER OF IMPHAL-JIRIBAM SECTION OF NH-37 (NH-53) (LENGTH- 220 KM) IN THE STATE OF MANIPUR		SUBMISSION TYPE : DRAFT DETAIL PROJECT REPORT					
REVISIONS								(PACKAGE NO. III)		S.MANDAL	B. DAS	A.DEY	A. K.DAS

HIP CURVE NO.	HIP COORDINATE (E,N)	DEFLECTION ANGLE	ELEMENT	START		END		CHORD LENGTH	LENGTH	TRANSITION	RADIUS (M)	HAND OF ARC	SUPERELEVATION (%)	DESIGN SPEED (KM/H)	EXTRA WIDENING (M)
				CHAINAGE	COORDINATE (E,N)	CHAINAGE	COORDINATE (E,N)								
			Line	32989.851m	574577.4526,2742710.5566	33046.114m	574541.7241,2742667.0939		56.263m						
247	571273.5302,2743034.4902	13°29'25.44"	Arc	40137.338m	571284.6355,2743029.4513	40160.883m	571266.6437,2743044.5546	23.491m	23.545m		100	Right	7.0	40	0.9
		5°43'46.56"	Transition	40160.883m	571266.6437,2743044.5546	40180.883m	571253.9485,2743059.9973		20.000m	20.000m					
			Line	40180.883m	571253.9485,2743059.9973	40212.919m	571234.4406,2743085.4084		32.036m						
		12°16'39.72"	Transition	40212.919m	571234.4406,2743085.4084	40242.919m	571214.5618,2743107.7951		30.000m	30.000m					
248	571212.0324,2743114.5974	9°49'32.88"	Arc	40242.919m	571214.5618,2743107.7951	40254.923m	571204.7761,2743114.7229	11.990m	12.004m		70	Left	7.0	40	0.9
		12°16'39.72"	Transition	40254.923m	571204.7761,2743114.7229	40284.923m	571177.0559,2743126.0333		30.000m	30.000m					
			Line	40284.923m	571177.0559,2743126.0333	40410.045m	571058.1299,2743164.9174		125.121m						
		28°38'52.44"	Transition	40410.045m	571058.1299,2743164.9174	40440.045m	571028.7937,2743169.3418		30.000m	30.000m					
249	570992.6518,2743186.3261	62°37'4.08"	Arc	40440.045m	571028.7937,2743169.3418	40472.831m	571005.5690,2743148.5392	31.179m	32.787m		30	Left	7.0	30	1.5
		28°38'52.44"	Transition	40472.831m	571005.5690,2743148.5392	40502.831m	571006.7487,2743118.8947		30.000m	30.000m					
			Line	40502.831m	571006.7487,2743118.8947	40509.336m	571008.0797,2743112.5280		6.504m						
		7°9'43.2"	Transition	40509.336m	571008.0797,2743112.5280	40524.336m	571010.5333,2743097.7405		15.000m	15.000m					
250	571016.5758,2743071.8875	44°39'32.76"	Arc	40524.336m	571010.5333,2743097.7405	40571.103m	570996.6843,2743054.3029	45.592m	46.767m		60	Right	6.7	30	1.2
		7°9'43.2"	Transition	40571.103m	570996.6843,2743054.3029	40586.103m	570986.1243,2743043.6645		15.000m	15.000m					
			Line	40586.103m	570986.1243,2743043.6645	40628.494m	570955.0331,2743014.8486		42.391m						
		17°54'17.64"	Transition	40628.494m	570955.0331,2743014.8486	40653.494m	570938.6334,2742996.1231		25.000m	25.000m					
251	570934.8317,2742996.1255	4°54'30.96"	Arc	40653.494m	570938.6334,2742996.1231	40656.921m	570937.0879,2742993.0657	3.426m	3.427m		40	Left	7.0	30	1.5
		17°54'17.64"	Transition	40656.921m	570937.0879,2742993.0657	40681.921m	570931.7343,2742968.7566		25.000m	25.000m					
			Line	40681.921m	570931.7343,2742968.7566	40684.264m	570931.4708,2742966.4282		2.343m						
		7°9'43.2"	Transition	40684.264m	570931.4708,2742966.4282	40699.264m	570929.1664,2742951.6168		15.000m	15.000m					
252	570929.2884,2742947.1434	8°4'37.56"	Arc	40699.264m	570929.1664,2742951.6168	40707.722m	570926.6029,2742943.5637	8.451m	8.458m		60	Right	6.7	30	1.2
		7°9'43.2"	Transition	40707.722m	570926.6029,2742943.5637	40722.722m	570919.9215,2742930.1455		15.000m	15.000m					
			Line	40722.722m	570919.9215,2742930.1455	40727.218m	570917.7519,2742926.2085		4.495m						
		12°16'39.72"	Transition	40727.218m	570917.7519,2742926.2085	40757.218m	570905.2098,2742899.0234		30.000m	30.000m					
253	570897.5898,2742889.6211	17°3'2.52"	Arc	40757.218m	570905.2098,2742899.0234	40778.049m	570902.3017,2742878.4736	20.755m	20.831m		70	Left	7.0	40	0.9
		12°16'39.72"	Transition	40778.049m	570902.3017,2742878.4736	40808.049m	570906.8082,2742848.8759		30.000m	30.000m					
			Line	40808.049m	570906.8082,2742848.8759	40913.713m	570930.1250,2742745.8167		105.664m						
		3°26'15.72"	Transition	40913.713m	570930.1250,2742745.8167	40928.713m	570933.1413,2742731.1255		15.000m	15.000m					
254	570945.0956,2742679.6468	44°38'6"	Arc	40928.713m	570933.1413,2742731.1255	41026.092m	570911.7744,2742638.6265	94.935m	97.379m		125	Right	5.7	40	0.6
		3°26'15.72"	Transition	41026.092m	570911.7744,2742638.6265	41041.092m	570902.6203,2742626.7467		15.000m	15.000m					
			Line	41041.092m	570902.6203,2742626.7467	41067.082m	570886.3481,2742606.4807		25.990m						
		8°57'9"	Transition	41067.082m	570886.3481,2742606.4807	41092.082m	570871.7475,2742586.2207		25.000m	25.000m					
255	570867.8459,2742583.4376	6°4'45.84"	Arc	41092.082m	570871.7475,2742586.2207	41100.570m	570867.9260,2742578.6456	8.484m	8.488m		80	Left	7.0	40	0.9
		8°57'9"	Transition	41100.570m	570867.9260,2742578.6456	41125.570m	570860.3079,2742554.8631		25.000m	25.000m					
			Line	41125.570m	570860.3079,2742554.8631	41128.564m	570859.5442,2742551.9679		2.994m						
		7°9'43.2"	Transition	41128.564m	570859.5442,2742551.9679	41143.564m	570855.1204,2742537.6459		15.000m	15.000m					
256	570855.0358,2742534.8776	4°53'1.32"	Arc	41143.564m	570855.1204,2742537.6459	41148.679m	570853.0098,2742532.9892	5.113m	5.114m		60	Right	6.7	30	1.2
		7°9'43.2"	Transition	41148.679m	570853.0098,2742532.9892	41163.679m	570845.1558,2742520.2220		15.000m	15.000m					
			Line	41163.679m	570845.1558,2742520.2220	41164.128m	570844.9049,2742519.8498		0.449m						
		17°54'17.64"	Transition	41164.128m	570844.9049,2742519.8498	41189.128m	570833.2104,2742497.8763		25.000m	25.000m					
257	570829.6297,2742497.1912	4°22'11.28"	Arc	41189.128m	570833.2104,2742497.8763	41192.178m	570832.4780,2742494.9156	3.050m	3.051m		40	Left	7.0	30	1.5
		17°54'17.64"	Transition	41192.178m	570832.4780,2742494.9156	41217.178m	570832.5782,2742470.0241		25.000m	25.000m					
			Line	41217.178m	570832.5782,2742470.0241	41220.674m	570832.9554,2742466.5486		3.496m						
		28°38'52.44"	Transition	41220.674m	570832.9554,2742466.5486	41250.674m	570831.2296,2742436.9308		30.000m	30.000m					
258	570836.6357,2742432.6383	5°56'40.56"	Arc	41250.674m	570831.2296,2742436.9308	41253.787m	570829.8938,2742434.1210	3.111m	3.113m		30	Right	7.0	30	1.5
		28°38'52.44"	Transition	41253.787m	570829.8938,2742434.1210	41283.787m	570808.0142,2742414.0842		30.000m	30.000m					
			Line	41283.787m	570808.0142,2742414.0842	41298.631m	570795.5581,2742406.0094		14.844m						
		6°8'19.68"	Transition	41298.631m	570795.5581,2742406.0094	41313.631m	570783.2771,2742397.4102		15.000m	15.000m					

					Scale :- NTS		CLIENT: NATIONAL HIGHWAYS AND INFRASTRUCTURE DEVELOPMENT CORPORATION LTD. PTI Building, 3rd Floor, 4, Parliament Street, New Delhi - 110001	TITLE : HORIZONTAL ALIGNMENT REPORT	CONSULTANT :  CE TESTING COMPANY PVT. LTD. 124-A, N.S.C. Bose Road, Kolkata - 700092.	DWG NO :-CET/4047/NHIDCL/NH-37/I-J/DDPR/HAR			
										REVISION MKD. - R2		SHEET NO. - 06	
										Drawn By	Designed By	Checked By	Issued By
MKD.	DATE	DESCRIPTION	CHKD.	APPRD.	DATE: FEB, 2021	PROJECT: CONSULTANCY SERVICES FOR CARRYING OUT FEASIBILITY STUDY, PREPARATION OF DETAILED PROJECT REPORT AND PROVIDING PRE-CONSTRUCTION SERVICES IN RESPECT OF 2 LANING WITH PAVED SHOULDER OF IMPHAL-JIRIBAM SECTION OF NH-37 (NH-53) (LENGTH- 220 KM) IN THE STATE OF MANIPUR		SUBMISSION TYPE : DRAFT DETAIL PROJECT REPORT					
REVISIONS								(PACKAGE NO. III)		S.MANDAL	B. DAS	A.DEY	A. K.DAS

HIP CURVE NO.	HIP COORDINATE (E,N)	DEFLECTION ANGLE	ELEMENT	START		END		CHORD LENGTH	LENGTH	TRANSITION	RADIUS (M)	HAND OF ARC	SUPERELEVATION (%)	DESIGN SPEED (KM/H)	EXTRA WIDENING (M)
				CHAINAGE	COORDINATE (E,N)	CHAINAGE	COORDINATE (E,N)								
			Line	32989.851m	574577.4526,2742710.5566	33046.114m	574541.7241,2742667.0939		56.263m						
260	570700.1064,2742284.9015	10°5'56.4"	Arc	41446.770m	570702.4865,2742291.9440	41459.108m	570692.6847,2742284.4765	12.322m	12.338m		70	Right	7.0	40	0.9
		12°16'39.72"	Transition	41459.108m	570692.6847,2742284.4765	41489.108m	570665.3482,2742272.2679		30.000m	30.000m					
			Line	41489.108m	570665.3482,2742272.2679	41496.984m	570657.9460,2742269.5774		7.876m						
		22°55'5.88"	Transition	41496.984m	570657.9460,2742269.5774	41536.984m	570622.7505,2742251.1747		40.000m	40.000m					
261	570608.9583,2742251.7718	18°24'57.6"	Arc	41536.984m	570622.7505,2742251.1747	41553.055m	570612.9210,2742238.5476	16.002m	16.071m		50	Left	7.0	40	1.2
		22°55'5.88"	Transition	41553.055m	570612.9210,2742238.5476	41593.055m	570603.7157,2742199.9128		40.000m	40.000m					
			Line	41593.055m	570603.7157,2742199.9128	41594.351m	570603.5854,2742198.6234		1.296m						
		12°16'39.72"	Transition	41594.351m	570603.5854,2742198.6234	41624.351m	570598.4568,2742169.1271		30.000m	30.000m					
262	570599.7844,2742161.0245	11°17'26.52"	Arc	41624.351m	570598.4568,2742169.1271	41638.145m	570592.9222,2742156.5163	13.772m	13.794m		70	Right	7.0	40	0.9
		12°16'39.72"	Transition	41638.145m	570592.9222,2742156.5163	41668.145m	570574.6851,2742132.7730		30.000m	30.000m					
			Line	41668.145m	570574.6851,2742132.7730	41777.952m	570501.7553,2742050.6838		109.806m						
		3°26'15.72"	Transition	41777.952m	570501.7553,2742050.6838	41792.952m	570492.0205,2742039.2749		15.000m	15.000m					
263	570478.0315,2742023.9806	18°33'13.32"	Arc	41792.952m	570492.0205,2742039.2749	41833.429m	570472.5412,2742003.9939	40.301m	40.478m		125	Left	5.7	40	0.6
		3°26'15.72"	Transition	41833.429m	570472.5412,2742003.9939	41848.429m	570468.0724,2741989.6776		15.000m	15.000m					
			Line	41848.429m	570468.0724,2741989.6776	41871.577m	570461.6184,2741967.4475		23.148m						
264	570456.4998,2741949.8168	7°0'13.68"	Arc	41871.577m	570461.6184,2741967.4475	41908.249m	570449.2696,2741932.9418	36.649m	36.672m		300	Right	Normal Camber	40	0.6
			Line	41908.249m	570449.2696,2741932.9418	41963.629m	570427.4594,2741882.0380		55.379m						
		17°54'17.64"	Transition	41963.629m	570427.4594,2741882.0380	41988.629m	570420.0863,2741858.2634		25.000m	25.000m					
265	570408.5729,2741837.9580	46°26'52.08"	Arc	41988.629m	570420.0863,2741858.2634	42021.055m	570429.8009,2741828.2504	31.546m	32.427m		40	Left	7.0	30	1.5
		17°54'17.64"	Transition	42021.055m	570429.8009,2741828.2504	42046.055m	570449.7067,2741813.3053		25.000m	25.000m					
			Line	42046.055m	570449.7067,2741813.3053	42047.026m	570450.5392,2741812.8064		0.971m						
		11°27'33.12"	Transition	42047.026m	570450.5392,2741812.8064	42067.026m	570466.9421,2741801.4256		20.000m	20.000m					
266	570472.1577,2741799.8498	10°43'30"	Arc	42067.026m	570466.9421,2741801.4256	42076.385m	570473.2250,2741794.5070	9.346m	9.359m		50	Right	7.0	30	1.2
		11°27'33.12"	Transition	42076.385m	570473.2250,2741794.5070	42096.385m	570482.9769,2741777.0863		20.000m	20.000m					
			Line	42096.385m	570482.9769,2741777.0863	42098.252m	570483.7783,2741775.4002		1.867m						
		7°9'43.2"	Transition	42098.252m	570483.7783,2741775.4002	42113.252m	570490.7711,2741762.1417		15.000m	15.000m					
267	570492.2043,2741757.6720	8°28'53.76"	Arc	42113.252m	570490.7711,2741762.1417	42122.134m	570496.0897,2741755.0384	8.874m	8.882m		60	Left	6.7	30	1.2
		7°9'43.2"	Transition	42122.134m	570496.0897,2741755.0384	42137.134m	570506.8432,2741744.5956		15.000m	15.000m					
			Line	42137.134m	570506.8432,2741744.5956	42179.617m	570538.5269,2741716.2937		42.484m						
		11°27'33.12"	Transition	42179.617m	570538.5269,2741716.2937	42199.617m	570552.4973,2741702.0317		20.000m	20.000m					
268	570561.9126,2741695.4041	23°5'31.56"	Arc	42199.617m	570552.4973,2741702.0317	42219.769m	570561.0264,2741683.9243	20.016m	20.152m		50	Right	7.0	30	1.2
		11°27'33.12"	Transition	42219.769m	570561.0264,2741683.9243	42239.769m	570563.1253,2741664.0704		20.000m	20.000m					
			Line	42239.769m	570563.1253,2741664.0704	42249.671m	570563.5082,2741654.1764		9.901m						
		7°9'43.2"	Transition	42249.671m	570563.5082,2741654.1764	42264.671m	570564.7112,2741639.2352		15.000m	15.000m					
269	570564.2747,2741634.3705	8°49'58.44"	Arc	42264.671m	570564.7112,2741639.2352	42273.920m	570566.9146,2741630.2611	9.241m	9.250m		60	Left	6.7	30	1.2
		7°9'43.2"	Transition	42273.920m	570566.9146,2741630.2611	42288.920m	570572.7681,2741616.4617		15.000m	15.000m					
			Line	42288.920m	570572.7681,2741616.4617	42337.478m	570593.5758,2741572.5879		48.558m						
		11°27'33.12"	Transition	42337.478m	570593.5758,2741572.5879	42357.478m	570600.9105,2741554.0196		20.000m	20.000m					
270	570607.2244,2741543.8091	24°2'30.84"	Arc	42357.478m	570600.9105,2741554.0196	42378.459m	570601.5985,2741533.2040	20.827m	20.981m		50	Right	7.0	30	1.2
		11°27'33.12"	Transition	42378.459m	570601.5985,2741533.2040	42398.459m	570595.5059,2741514.1919		20.000m	20.000m					
			Line	42398.459m	570595.5059,2741514.1919	42416.058m	570589.0308,2741497.8270		17.599m						
		3°26'15.72"	Transition	42416.058m	570589.0308,2741497.8270	42431.058m	570583.7930,2741483.7738		15.000m	15.000m					
271	570579.8376,2741474.5923	9°2'37.32"	Arc	42431.058m	570583.7930,2741483.7738	42450.788m	570579.1492,2741464.6188	19.710m	19.730m		125	Left	5.7	40	0.6
		3°26'15.72"	Transition	42450.788m	570579.1492,2741464.6188	42465.788m	570577.3698,2741449.7271		15.000m	15.000m					
			Line	42465.788m	570577.3698,2741449.7271	42498.150m	570574.1737,2741417.5233		32.362m						
		23°52'23.52"	Transition	42498.150m	570574.1737,2741417.5233	42528.150m	570567.1667,2741388.5905		30.000m	30.000m					
272	570452.1587,2740188.1091	128°46'37.2"	Arc	42528.150m	570567.1667,2741388.5905	42609.064m	570502.3936,2741393.0402	64.926m	80.913m		36	Right	7.0	30	1.5
		23°52'23.52"	Transition	42609.064m	570502.3936,2741393.0402	42639.064m	570499.4089,2741422.6594		30.000m	30.000m					
			Line	42639.064m	570499.4089,2741422.6594	42691.406m	570501.4107,2741474.9630		52.342m						
		22°55'5.88"	Transition	42691.406m	570501.4107,2741474.9630	42731.406m	570497.6474,2741514.5005		40.000m	40.000m					

					Scale :- NTS		CLIENT: NATIONAL HIGHWAYS AND INFRASTRUCTURE DEVELOPMENT CORPORATION LTD. PTI Building, 3rd Floor, 4, Parliament Street, New Delhi - 110001	TITLE : HORIZONTAL ALIGNMENT REPORT	CONSULTANT :  CE TESTING COMPANY PVT. LTD. 124-A, N.S.C. Bose Road, Kolkata - 700092.	DWG NO :-CET/4047/NHIDCL/NH-37/I-J/DDPR/HAR			
										REVISION MKD. - R2		SHEET NO. - 07	
										Drawn By	Designed By	Checked By	Issued By
MKD.	DATE	DESCRIPTION	CHKD.	APPRD.	DATE: FEB, 2021	PROJECT: CONSULTANCY SERVICES FOR CARRYING OUT FEASIBILITY STUDY, PREPARATION OF DETAILED PROJECT REPORT AND PROVIDING PRE-CONSTRUCTION SERVICES IN RESPECT OF 2 LANING WITH PAVED SHOULDER OF IMPHAL-JIRIBAM SECTION OF NH-37 (NH-53) (LENGTH- 220 KM) IN THE STATE OF MANIPUR		SUBMISSION TYPE : DRAFT DETAIL PROJECT REPORT					
REVISIONS								(PACKAGE NO. III)		S.MANDAL	B. DAS	A.DEY	A. K.DAS

HIP CURVE NO.	HIP COORDINATE (E,N)	DEFLECTION ANGLE	ELEMENT	START		END		CHORD LENGTH	LENGTH	TRANSITION	RADIUS (M)	HAND OF ARC	SUPERELEVATION (%)	DESIGN SPEED (KM/H)	EXTRA WIDENING (M)
				CHAINAGE	COORDINATE (E,N)	CHAINAGE	COORDINATE (E,N)								
			Line	32989.851m	574577.4526,2742710.5566	33046.114m	574541.7241,2742667.0939		56.263m						
273	570503.5267,2741530.2493	23°24'8.64"	Arc	42731.406m	570497.6474,2741514.5005	42751.828m	570486.7722,2741531.6189	20.281m	20.422m		50	Left	7.0	40	1.2
		22°55'5.88"	Transition	42751.828m	570486.7722,2741531.6189	42791.828m	570452.5803,2741551.8253		40.000m	40.000m					
			Line	42791.828m	570452.5803,2741551.8253	42819.225m	570427.3522,2741562.5095		27.397m						
		16°42'40.68"	Transition	42819.225m	570427.3522,2741562.5095	42854.225m	570396.7153,2741579.1573		35.000m	35.000m					
274	570388.2727,2741579.0598	11°13'53.04"	Arc	42854.225m	570396.7153,2741579.1573	42865.987m	570388.4526,2741587.5010	11.743m	11.761m		60	Right	7.0	40	1.2
		16°42'40.68"	Transition	42865.987m	570388.4526,2741587.5010	42900.987m	570372.1049,2741618.2991		35.000m	35.000m					
			Line	42900.987m	570372.1049,2741618.2991	42933.390m	570359.7606,2741648.2585		32.403m						
		5°22'17.4"	Transition	42933.390m	570359.7606,2741648.2585	42948.390m	570353.6181,2741661.9367		15.000m	15.000m					
275	570342.2270,2741690.8124	40°37'15.6"	Arc	42948.390m	570353.6181,2741661.9367	43005.107m	570312.2971,2741699.0441	55.537m	56.718m		80	Left	5.0	30	0.9
		5°22'17.4"	Transition	43005.107m	570312.2971,2741699.0441	43020.107m	570298.0395,2741703.6858		15.000m	15.000m					
			Line	43020.107m	570298.0395,2741703.6858	43022.825m	570295.4305,2741704.4459		2.717m						
		14°19'26.04"	Transition	43022.825m	570295.4305,2741704.4459	43037.825m	570281.4671,2741709.8102		15.000m	15.000m					
276	570264.6275,2741713.4200	49°28'24.96"	Arc	43037.825m	570281.4671,2741709.8102	43063.729m	570267.1754,2741730.4526	25.107m	25.904m		30	Right	5.9	20	1.5
		14°19'26.04"	Transition	43063.729m	570267.1754,2741730.4526	43078.729m	570267.0689,2741745.4106		15.000m	15.000m					
			Line	43078.729m	570267.0689,2741745.4106	43080.396m	570267.1958,2741747.0724		1.667m						
		14°19'26.04"	Transition	43080.396m	570267.1958,2741747.0724	43095.396m	570267.0893,2741762.0304		15.000m	15.000m					
277	570268.8112,2741768.2387	20°7'53.04"	Arc	43095.396m	570267.0893,2741762.0304	43105.937m	570263.4983,2741771.8831	10.487m	10.541m		30	Left	5.9	20	1.5
		14°19'26.04"	Transition	43105.937m	570263.4983,2741771.8831	43120.937m	570253.9548,2741783.4015		15.000m	15.000m					
			Line	43120.937m	570253.9548,2741783.4015	43123.672m	570252.0406,2741785.3553		2.735m						
		10°44'34.8"	Transition	43123.672m	570252.0406,2741785.3553	43138.672m	570242.2476,2741796.6865		15.000m	15.000m					
278	570237.3674,2741800.3312	15°32'49.2"	Arc	43138.672m	570242.2476,2741796.6865	43149.526m	570237.5214,2741806.4204	10.821m	10.854m		40	Right	4.4	20	1.5
		10°44'34.8"	Transition	43149.526m	570237.5214,2741806.4204	43164.526m	570234.6735,2741821.1237		15.000m	15.000m					
			Line	43164.526m	570234.6735,2741821.1237	43232.440m	570225.9474,2741888.4755		67.915m						
		11°27'33.12"	Transition	43232.440m	570225.9474,2741888.4755	43252.440m	570224.7064,2741908.4014		20.000m	20.000m					
279	570221.8290,2741920.2630	24°25'40.8"	Arc	43252.440m	570224.7064,2741908.4014	43273.758m	570230.6411,2741928.7083	21.156m	21.317m		50	Right	3.6	20	1.2
		11°27'33.12"	Transition	43273.758m	570230.6411,2741928.7083	43293.758m	570242.4170,2741944.8300		20.000m	20.000m					
			Line	43293.758m	570242.4170,2741944.8300	43316.598m	570257.0877,2741962.3360		22.841m						
		22°55'5.88"	Transition	43316.598m	570257.0877,2741962.3360	43356.598m	570278.3308,2741995.8936		40.000m	40.000m					
280	570295.5750,2742008.2616	30°3'40.32"	Arc	43356.598m	570278.3308,2741995.8936	43382.832m	570279.2428,2742021.8110	25.933m	26.233m		50	Left	7.0	40	1.2
		22°55'5.88"	Transition	43382.832m	570279.2428,2742021.8110	43422.832m	570260.4110,2742056.7788		40.000m	40.000m					
			Line	43422.832m	570260.4110,2742056.7788	43448.204m	570245.5215,2742077.3225		25.372m						
		14°19'26.04"	Transition	43448.204m	570245.5215,2742077.3225	43463.204m	570237.7813,2742090.1225		15.000m	15.000m					
281	570220.3580,2742112.0416	70°11'56.76"	Arc	43463.204m	570237.7813,2742090.1225	43499.960m	570245.8292,2742123.6706	34.500m	36.756m		30	Right	5.9	20	1.5
		14°19'26.04"	Transition	43499.960m	570245.8292,2742123.6706	43514.960m	570258.5341,2742131.5661		15.000m	15.000m					
			Line	43514.960m	570258.5341,2742131.5661	43517.779m	570261.0441,2742132.8497		2.819m						
		14°19'26.04"	Transition	43517.779m	570261.0441,2742132.8497	43532.779m	570273.7490,2742140.7451		15.000m	15.000m					
282	570281.5146,2742143.3190	25°32'30.84"	Arc	43532.779m	570273.7490,2742140.7451	43546.153m	570281.5109,2742151.5000	13.263m	13.374m		30	Left	5.9	20	1.5
		14°19'26.04"	Transition	43546.153m	570281.5109,2742151.5000	43561.153m	570285.0018,2742166.0453		15.000m	15.000m					
			Line	43561.153m	570285.0018,2742166.0453	43562.721m	570285.2396,2742167.5957		1.568m						
		11°27'33.12"	Transition	43562.721m	570285.2396,2742167.5957	43582.721m	570289.5750,2742187.0837		20.000m	20.000m					
283	570289.1181,2742192.8722	11°29'31.92"	Arc	43582.721m	570289.5750,2742187.0837	43592.750m	570293.9528,2742196.0879	10.012m	10.029m		50	Right	7.0	30	1.2
		11°27'33.12"	Transition	43592.750m	570293.9528,2742196.0879	43612.750m	570306.6021,2742211.5338		20.000m	20.000m					
			Line	43612.750m	570306.6021,2742211.5338	43674.746m	570348.9891,2742256.7755		61.996m						
		7°9'43.2"	Transition	43674.746m	570348.9891,2742256.7755	43689.746m	570358.7731,2742268.1316		15.000m	15.000m					
284	570375.9225,2742285.5230	41°32'40.92"	Arc	43689.746m	570358.7731,2742268.1316	43733.251m	570369.9313,2742309.2015	42.559m	43.505m		60	Left	6.7	30	1.2
		7°9'43.2"	Transition	43733.251m	570369.9313,2742309.2015	43748.251m	570367.2389,2742323.9473		15.000m	15.000m					
			Line	43748.251m	570367.2389,2742323.9473	43776.014m	570361.1190,2742351.0271		27.763m						
		3°26'15.72"	Transition	43776.014m	570361.1190,2742351.0271	43791.014m	570358.1062,2742365.7189		15.000m	15.000m					

					Scale :- NTS		CLIENT: NATIONAL HIGHWAYS AND INFRASTRUCTURE DEVELOPMENT CORPORATION LTD. PTI Building, 3rd Floor, 4, Parliament Street, New Delhi - 110001	TITLE : HORIZONTAL ALIGNMENT REPORT	CONSULTANT :  CE TESTING COMPANY PVT. LTD. 124-A, N.S.C. Bose Road, Kolkata - 700092.	DWG NO :-CET/4047/NHIDCL/NH-37/I-J/DDPR/HAR			
										REVISION MKD. - R2		SHEET NO. - 08	
										Drawn By	Designed By	Checked By	Issued By
MKD.	DATE	DESCRIPTION	CHKD.	APPRD.	DATE: FEB, 2021	PROJECT: CONSULTANCY SERVICES FOR CARRYING OUT FEASIBILITY STUDY, PREPARATION OF DETAILED PROJECT REPORT AND PROVIDING PRE-CONSTRUCTION SERVICES IN RESPECT OF 2 LANING WITH PAVED SHOULDER OF IMPHAL-JIRIBAM SECTION OF NH-37 (NH-53) (LENGTH- 220 KM) IN THE STATE OF MANIPUR		SUBMISSION TYPE : DRAFT DETAIL PROJECT REPORT					
REVISIONS								(PACKAGE NO. III)		S.MANDAL	B. DAS	A.DEY	A. K.DAS

HIP CURVE NO.	HIP COORDINATE (E,N)	DEFLECTION ANGLE	ELEMENT	START		END		CHORD LENGTH	LENGTH	TRANSITION	RADIUS (M)	HAND OF ARC	SUPERELEVATION (%)	DESIGN SPEED (KM/H)	EXTRA WIDENING (M)
				CHAINAGE	COORDINATE (E,N)	CHAINAGE	COORDINATE (E,N)								
			Line	32989.851m	574577.4526,2742710.5566	33046.114m	574541.7241,2742667.0939		56.263m						
285	570354.5449,2742380.1171	13°21'52.92"	Arc	43791.014m	570358.1062,2742365.7189	43820.171m	570356.7792,2742394.7799	29.091m	29.157m		125	Right	5.7	40	0.6
		3°26'15.72"	Transition	43820.171m	570356.7792,2742394.7799	43835.171m	570358.4405,2742409.6852		15.000m	15.000m					
			Line	43835.171m	570358.4405,2742409.6852	43865.554m	570362.4093,2742439.8077		30.383m						
286	570365.2238,2742461.1700	8°12'58.32"	Arc	43865.554m	570362.4093,2742439.8077	43908.574m	570364.9566,2742482.7153	42.983m	43.020m		300	Left	Normal Camber	40	0.6
			Line	43908.574m	570364.9566,2742482.7153	43915.456m	570364.8712,2742489.5964		6.882m						
287	570364.5266,2742517.3849	10°35'6"	Arc	43915.456m	570364.8712,2742489.5964	43970.879m	570369.2924,2742544.7638	55.344m	55.423m		300	Right	Normal Camber	40	0.6
			Line	43970.879m	570369.2924,2742544.7638	44056.388m	570383.9564,2742629.0065		85.509m						
		2°8'54.96"	Transition	44056.388m	570383.9564,2742629.0065	44071.388m	570386.3437,2742643.8143		15.000m	15.000m					
288	570393.2834,2742682.5885	22°5'6.72"	Arc	44071.388m	570386.3437,2742643.8143	44148.480m	570381.9111,2742720.3014	76.615m	77.092m		200	Left	3.6	40	0.6
		2°8'54.96"	Transition	44148.480m	570381.9111,2742720.3014	44163.480m	570377.8293,2742734.7344		15.000m	15.000m					
			Line	44163.480m	570377.8293,2742734.7344	44297.958m	570339.6176,2742863.6698		134.479m						
		17°54'17.64"	Transition	44297.958m	570339.6176,2742863.6698	44322.958m	570335.0624,2742888.1411		25.000m	25.000m					
289	570328.2192,2742902.1306	32°38'52.44"	Arc	44322.958m	570335.0624,2742888.1411	44345.751m	570341.9066,2742909.5596	22.485m	22.793m		40	Right	7.0	30	1.5
		17°54'17.64"	Transition	44345.751m	570341.9066,2742909.5596	44370.751m	570359.8081,2742926.8550		25.000m	25.000m					
			Line	44370.751m	570359.8081,2742926.8550	44372.373m	570361.0855,2742927.8549		1.622m						
		17°54'17.64"	Transition	44372.373m	570361.0855,2742927.8549	44397.373m	570378.9871,2742945.1503		25.000m	25.000m					
290	570382.5794,2742944.6780	4°17'26.16"	Arc	44397.373m	570378.9871,2742945.1503	44400.369m	570380.5695,2742947.6927	2.995m	2.995m		40	Left	7.0	30	1.5
		17°54'17.64"	Transition	44400.369m	570380.5695,2742947.6927	44425.369m	570388.1841,2742971.3911		25.000m	25.000m					
			Line	44425.369m	570388.1841,2742971.3911	44430.521m	570389.2420,2742976.4333		5.152m						
		5°43'46.56"	Transition	44430.521m	570389.2420,2742976.4333	44450.521m	570393.9967,2742995.8507		20.000m	20.000m					
291	570395.8397,2743007.8790	13°27'41.76"	Arc	44450.521m	570393.9967,2742995.8507	44474.016m	570403.6467,2743017.2132	23.441m	23.495m		100	Right	7.0	40	0.9
		5°43'46.56"	Transition	44474.016m	570403.6467,2743017.2132	44494.016m	570415.0733,2743033.6169		20.000m	20.000m					
			Line	44494.016m	570415.0733,2743033.6169	44500.831m	570419.1529,2743039.0761		6.815m						
		5°43'46.56"	Transition	44500.831m	570419.1529,2743039.0761	44520.831m	570430.5795,2743055.4797		20.000m	20.000m					
292	570439.9479,2743066.9034	16°17'26.88"	Arc	44520.831m	570430.5795,2743055.4797	44549.263m	570441.6040,2743081.5843	28.337m	28.433m		100	Left	7.0	40	0.9
		5°43'46.56"	Transition	44549.263m	570441.6040,2743081.5843	44569.263m	570445.3945,2743101.2128		20.000m	20.000m					
			Line	44569.263m	570445.3945,2743101.2128	44574.694m	570446.2459,2743106.5761		5.431m						
		5°43'46.56"	Transition	44574.694m	570446.2459,2743106.5761	44594.694m	570450.0364,2743126.2046		20.000m	20.000m					
293	570450.4720,2743133.1973	7°45'30.96"	Arc	44594.694m	570450.0364,2743126.2046	44608.235m	570454.3588,2743139.0266	13.531m	13.541m		100	Right	7.0	40	0.9
		5°43'46.56"	Transition	44608.235m	570454.3588,2743139.0266	44628.235m	570463.2252,2743156.9439		20.000m	20.000m					
			Line	44628.235m	570463.2252,2743156.9439	44647.341m	570472.2646,2743173.7755		19.105m						
		12°16'39.72"	Transition	44647.341m	570472.2646,2743173.7755	44677.341m	570484.5120,2743201.0946		30.000m	30.000m					
294	570510.3723,2743244.7327	61°15'45.36"	Arc	44677.341m	570484.5120,2743201.0946	44752.187m	570466.4461,2743270.1006	71.332m	74.846m		70	Left	7.0	40	0.9
		12°16'39.72"	Transition	44752.187m	570466.4461,2743270.1006	44782.187m	570442.3830,2743287.9135		30.000m	30.000m					
			Line	44782.187m	570442.3830,2743287.9135	44783.100m	570441.6125,2743288.4029		0.913m						
		17°54'17.64"	Transition	44783.100m	570441.6125,2743288.4029	44808.100m	570422.1007,2743303.8586		25.000m	25.000m					
295	570416.3816,2743304.4273	10°36'32.76"	Arc	44808.100m	570422.1007,2743303.8586	44815.506m	570417.9253,2743309.9633	7.396m	7.407m		40	Right	7.0	30	1.5
		17°54'17.64"	Transition	44815.506m	570417.9253,2743309.9633	44840.506m	570410.5961,2743333.7515		25.000m	25.000m					
			Line	44840.506m	570410.5961,2743333.7515	44842.223m	570410.2638,2743335.4358		1.717m						
		11°27'33.12"	Transition	44842.223m	570410.2638,2743335.4358	44862.223m	570405.1036,2743354.7219		20.000m	20.000m					
296	570404.0315,2743367.0245	24°42'12.96"	Arc	44862.223m	570405.1036,2743354.7219	44883.781m	570392.8426,2743372.2507	21.391m	21.558m		50	Left	7.0	30	1.2
		11°27'33.12"	Transition	44883.781m	570392.8426,2743372.2507	44903.781m	570376.4958,2743383.7120		20.000m	20.000m					
			Line	44903.781m	570376.4958,2743383.7120	44931.920m	570352.4314,2743398.2958		28.139m						
		11°27'33.12"	Transition	44931.920m	570352.4314,2743398.2958	44951.920m	570336.0846,2743409.7572		20.000m	20.000m					
297	570320.8971,2743417.4067	33°18'6.12"	Arc	44951.920m	570336.0846,2743409.7572	44980.981m	570321.4673,2743434.4023	28.654m	29.061m		50	Right	7.0	30	1.2
		11°27'33.12"	Transition	44980.981m	570321.4673,2743434.4023	45000.981m	570319.2484,2743454.2430		20.000m	20.000m					
			Line	45000.981m	570319.2484,2743454.2430	45004.175m	570319.1056,2743457.4339		3.194m						
		28°38'52.44"	Transition	45004.175m	570319.1056,2743457.4339	45034.175m	570312.8908,2743486.4437		30.000m	30.000m					

					Scale :- NTS		CLIENT: NATIONAL HIGHWAYS AND INFRASTRUCTURE DEVELOPMENT CORPORATION LTD. PTI Building, 3rd Floor, 4, Parliament Street, New Delhi - 110001	TITLE : HORIZONTAL ALIGNMENT REPORT	CONSULTANT :  CE TESTING COMPANY PVT. LTD. 124-A, N.S.C. Bose Road, Kolkata - 700092.	DWG NO :-CET/4047/NHIDCL/NH-37/I-J/DDPR/HAR			
										REVISION MKD. - R2		SHEET NO. - 09	
										Drawn By	Designed By	Checked By	Issued By
MKD.	DATE	DESCRIPTION	CHKD.	APPRD.	DATE: FEB, 2021	PROJECT: CONSULTANCY SERVICES FOR CARRYING OUT FEASIBILITY STUDY, PREPARATION OF DETAILED PROJECT REPORT AND PROVIDING PRE-CONSTRUCTION SERVICES IN RESPECT OF 2 LANING WITH PAVED SHOULDER OF IMPHAL-JIRIBAM SECTION OF NH-37 (NH-53) (LENGTH- 220 KM) IN THE STATE OF MANIPUR		SUBMISSION TYPE : DRAFT DETAIL PROJECT REPORT					
REVISIONS								(PACKAGE NO. III)		S.MANDAL	B. DAS	A.DEY	A. K.DAS

HIP CURVE NO.	HIP COORDINATE (E,N)	DEFLECTION ANGLE	ELEMENT	START		END		CHORD LENGTH	LENGTH	TRANSITION	RADIUS (M)	HAND OF ARC	SUPERELEVATION (%)	DESIGN SPEED (KM/H)	EXTRA WIDENING (M)
				CHAINAGE	COORDINATE (E,N)	CHAINAGE	COORDINATE (E,N)								
			Line	32989.851m	574577.4526,2742710.5566	33046.114m	574541.7241,2742667.0939		56.263m						
298	570316.6773,2743511.6879	45°55'50.52"	Arc	45034.175m	570312.8908,2743486.4437	45058.224m	570293.9092,2743500.1458	23.410m	24.049m		30	Left	7.0	30	1.5
		28°38'52.44"	Transition	45058.224m	570293.9092,2743500.1458	45088.224m	570264.4181,2743496.9107		30.000m	30.000m					
			Line	45088.224m	570264.4181,2743496.9107	45150.991m	570204.0200,2743479.8320		62.766m						
		17°54'17.64"	Transition	45150.991m	570204.0200,2743479.8320	45175.991m	570179.4935,2743475.5842		25.000m	25.000m					
299	570170.2799,2743470.2914	22°20'40.56"	Arc	45175.991m	570179.4935,2743475.5842	45191.590m	570164.4077,2743479.1470	15.501m	15.599m		40	Right	7.0	30	1.5
		17°54'17.64"	Transition	45191.590m	570164.4077,2743479.1470	45216.590m	570144.3730,2743493.9188		25.000m	25.000m					
			Line	45216.590m	570144.3730,2743493.9188	45221.809m	570140.5168,2743497.4358		5.219m						
		17°54'17.64"	Transition	45221.809m	570140.5168,2743497.4358	45246.809m	570120.4821,2743512.2077		25.000m	25.000m					
300	570118.7611,2743517.2773	9°32'45.24"	Arc	45246.809m	570120.4821,2743512.2077	45253.474m	570114.2146,2743514.4502	6.657m	6.664m		40	Left	7.0	30	1.5
		17°54'17.64"	Transition	45253.474m	570114.2146,2743514.4502	45278.474m	570089.3564,2743515.7412		25.000m	25.000m					
			Line	45278.474m	570089.3564,2743515.7412	45294.859m	570072.9936,2743514.8863		16.385m						
		3°26'15.72"	Transition	45294.859m	570072.9936,2743514.8863	45309.859m	570058.0038,2743514.4036		15.000m	15.000m					
301	570017.1397,2743511.9684	35°27'32.04"	Arc	45309.859m	570058.0038,2743514.4036	45387.218m	569985.6721,2743538.1524	76.131m	77.359m		125	Right	Normal Camber	20	0.6
		3°26'15.72"	Transition	45387.218m	569985.6721,2743538.1524	45402.218m	569973.8859,2743547.4266		15.000m	15.000m					
			Line	45402.218m	569973.8859,2743547.4266	45481.806m	569912.3357,2743597.8835		79.588m						
		5°43'46.56"	Transition	45481.806m	569912.3357,2743597.8835	45501.806m	569897.3064,2743611.0655		20.000m	20.000m					
302	569885.0340,2743620.2646	16°53'53.16"	Arc	45501.806m	569897.3064,2743611.0655	45531.299m	569879.8363,2743634.6945	29.386m	29.493m		100	Right	Normal Camber	20	0.9
		5°43'46.56"	Transition	45531.299m	569879.8363,2743634.6945	45551.299m	569871.6387,2743652.9275		20.000m	20.000m					
			Line	45551.299m	569871.6387,2743652.9275	45553.308m	569870.8765,2743654.7861		2.009m						
		22°55'5.88"	Transition	45553.308m	569870.8765,2743654.7861	45593.308m	569851.0617,2743689.2063		40.000m	40.000m					
303	569830.3445,2743753.6188	73°2'39.84"	Arc	45593.308m	569851.0617,2743689.2063	45657.051m	569792.1657,2743697.7569	59.513m	63.743m		50	Left	7.0	40	1.2
		22°55'5.88"	Transition	45657.051m	569792.1657,2743697.7569	45697.051m	569763.3808,2743670.3925		40.000m	40.000m					
			Line	45697.051m	569763.3808,2743670.3925	45743.823m	569734.0604,2743633.9514		46.772m						
304	569705.7210,2743598.7296	17°8'20.4"	Arc	45743.823m	569734.0604,2743633.9514	45833.563m	569689.0196,2743556.7205	89.405m	89.739m		300	Left	Normal Camber	40	0.6
			Line	45833.563m	569689.0196,2743556.7205	45943.246m	569648.4983,2743454.7973		109.683m						
		28°38'52.44"	Transition	45943.246m	569648.4983,2743454.7973	45973.246m	569633.1250,2743429.4230		30.000m	30.000m					
305	569636.0736,2743423.5455	4°39'48.6"	Arc	45973.246m	569633.1250,2743429.4230	45975.687m	569631.1842,2743427.9424	2.441m	2.442m		30	Right	7.0	30	1.5
		28°38'52.44"	Transition	45975.687m	569631.1842,2743427.9424	46005.687m	569602.6496,2743419.8203		30.000m	30.000m					
			Line	46005.687m	569602.6496,2743419.8203	46011.107m	569597.2629,2743419.2199		5.420m						
		7°9'43.2"	Transition	46011.107m	569597.2629,2743419.2199	46026.107m	569582.4477,2743416.9405		15.000m	15.000m					
306	569579.9545,2743417.2908	4°24'11.88"	Arc	46026.107m	569582.4477,2743416.9405	46030.719m	569578.0102,2743415.6913	4.610m	4.611m		60	Left	6.7	30	1.2
		7°9'43.2"	Transition	46030.719m	569578.0102,2743415.6913	46045.719m	569564.1817,2743409.9068		15.000m	15.000m					
			Line	46045.719m	569564.1817,2743409.9068	46057.812m	569553.2293,2743404.7794		12.093m						
		3°26'15.72"	Transition	46057.812m	569553.2293,2743404.7794	46072.812m	569539.5220,2743398.6934		15.000m	15.000m					
307	569526.4377,2743392.2368	13°9'1.08"	Arc	46072.812m	569539.5220,2743398.6934	46101.501m	569511.8805,2743391.2487	28.627m	28.689m		125	Right	3.2	30	0.6
		3°26'15.72"	Transition	46101.501m	569511.8805,2743391.2487	46116.501m	569496.9708,2743389.6272		15.000m	15.000m					
			Line	46116.501m	569496.9708,2743389.6272	46182.145m	569431.5828,2743383.8363		65.644m						
		8°57'9"	Transition	46182.145m	569431.5828,2743383.8363	46207.145m	569406.8556,2743380.3415		25.000m	25.000m					
308	569381.0007,2743379.3566	33°4'6.24"	Arc	46207.145m	569406.8556,2743380.3415	46253.317m	569367.6415,2743357.1986	45.534m	46.172m		80	Left	7.0	40	0.9
		8°57'9"	Transition	46253.317m	569367.6415,2743357.1986	46278.317m	569352.6301,2743337.2410		25.000m	25.000m					
			Line	46278.317m	569352.6301,2743337.2410	46282.704m	569350.1792,2743333.6027		4.387m						
		8°57'9"	Transition	46282.704m	569350.1792,2743333.6027	46307.704m	569335.1678,2743313.6451		25.000m	25.000m					
309	569308.8546,2743272.2572	56°57'6.48"	Arc	46307.704m	569335.1678,2743313.6451	46387.224m	569262.8687,2743289.3053	76.286m	79.520m		80	Right	7.0	40	0.9
		8°57'9"	Transition	46387.224m	569262.8687,2743289.3053	46412.224m	569238.8439,2743296.1213		25.000m	25.000m					
			Line	46412.224m	569238.8439,2743296.1213	46422.169m	569229.4312,2743299.3297		9.945m						
		16°42'40.68"	Transition	46422.169m	569229.4312,2743299.3297	46457.169m	569195.4924,2743307.3250		35.000m	35.000m					

					Scale :- NTS		CLIENT: NATIONAL HIGHWAYS AND INFRASTRUCTURE DEVELOPMENT CORPORATION LTD. PTI Building, 3rd Floor, 4, Parliament Street, New Delhi - 110001	TITLE : HORIZONTAL ALIGNMENT REPORT	CONSULTANT :  CE TESTING COMPANY PVT. LTD. 124-A, N.S.C. Bose Road, Kolkata - 700092.	DWG NO :-CET/4047/NHIDCL/NH-37/I-J/DDPR/HAR			
					DATE: FEB, 2021		PROJECT: CONSULTANCY SERVICES FOR CARRYING OUT FEASIBILITY STUDY, PREPARATION OF DETAILED PROJECT REPORT AND PROVIDING PRE-CONSTRUCTION SERVICES IN RESPECT OF 2 LANING WITH PAVED SHOULDER OF IMPHAL-JIRIBAM SECTION OF NH-37 (NH-53) (LENGTH- 220 KM) IN THE STATE OF MANIPUR	SUBMISSION TYPE : DRAFT DETAIL PROJECT REPORT	 CE TESTING COMPANY PVT. LTD. 124-A, N.S.C. Bose Road, Kolkata - 700092.	REVISION MKD. - R2		SHEET NO. - 10	
										Drawn By	Designed By	Checked By	Issued By
MKD.	DATE	DESCRIPTION	CHKD.	APPRD.									
REVISIONS								(PACKAGE NO. III)					

HIP CURVE NO.	HIP COORDINATE (E,N)	DEFLECTION ANGLE	ELEMENT	START		END		CHORD LENGTH	LENGTH	TRANSITION	RADIUS (M)	HAND OF ARC	SUPERELEVATION (%)	DESIGN SPEED (KM/H)	EXTRA WIDENING (M)
				CHAINAGE	COORDINATE (E,N)	CHAINAGE	COORDINATE (E,N)								
			Line	32989.851m	574577.4526,2742710.5566	33046.114m	574541.7241,2742667.0939		56.263m						
310	569186.3995,2743313.9977	16°1'1.2"	Arc	46457.169m	569195.4924,2743307.3250	46473.941m	569178.8625,2743305.6072	16.718m	16.773m		60	Left	6.7	30	1.2
		16°42'40.68"	Transition	46473.941m	569178.8625,2743305.6072	46508.941m	569147.2745,2743290.8435		35.000m	35.000m					
			Line	46508.941m	569147.2745,2743290.8435	46606.131m	569063.6340,2743241.3449		97.190m						
		22°55'5.88"	Transition	46606.131m	569063.6340,2743241.3449	46646.131m	569032.4425,2743216.7588		40.000m	40.000m					
311	569010.4712,2743209.8830	32°35'28.68"	Arc	46646.131m	569032.4425,2743216.7588	46674.572m	569022.7679,2743190.4201	28.059m	28.441m		50	Left	7.0	30	1.2
		22°55'5.88"	Transition	46674.572m	569022.7679,2743190.4201	46714.572m	569030.6290,2743151.4895		40.000m	40.000m					
			Line	46714.572m	569030.6290,2743151.4895	46720.983m	569032.7208,2743145.4299		6.411m						
		22°55'5.88"	Transition	46720.983m	569032.7208,2743145.4299	46760.983m	569040.5819,2743106.4993		40.000m	40.000m					
312	569060.2671,2743065.6335	57°9'42.12"	Arc	46760.983m	569040.5819,2743106.4993	46810.866m	569014.9099,2743066.1311	47.840m	49.883m		50	Right	7.0	40	1.2
		22°55'5.88"	Transition	46810.866m	569014.9099,2743066.1311	46850.866m	568976.3196,2743056.7411		40.000m	40.000m					
			Line	46850.866m	568976.3196,2743056.7411	46854.932m	568972.2764,2743056.3128		4.066m						
		8°57'9"	Transition	46854.932m	568972.2764,2743056.3128	46879.932m	568947.6131,2743052.3931		25.000m	25.000m					
313	568919.2804,2743050.6990	35°57'11.88"	Arc	46879.932m	568947.6131,2743052.3931	46930.132m	568906.1875,2743025.5159	49.381m	50.200m		80	Left	7.0	40	0.9
		8°57'9"	Transition	46930.132m	568906.1875,2743025.5159	46955.132m	568892.5576,2743004.5905		25.000m	25.000m					
			Line	46955.132m	568892.5576,2743004.5905	47029.949m	568855.0418,2742939.8594		74.817m						
		17°54'17.64"	Transition	47029.949m	568855.0418,2742939.8594	47054.949m	568840.3904,2742919.7365		25.000m	25.000m					
314	568840.0242,2742913.9473	10°45'6.12"	Arc	47054.949m	568840.3904,2742919.7365	47062.455m	568834.3751,2742915.2652	7.495m	7.506m		40	Right	7.0	30	1.5
		17°54'17.64"	Transition	47062.455m	568834.3751,2742915.2652	47087.455m	568810.8833,2742907.0354		25.000m	25.000m					
			Line	47087.455m	568810.8833,2742907.0354	47103.781m	568794.9978,2742903.2675		16.326m						
		11°27'33.12"	Transition	47103.781m	568794.9978,2742903.2675	47123.781m	568775.9222,2742897.3765		20.000m	20.000m					
315	568752.8162,2742893.2624	44°9'42.48"	Arc	47123.781m	568775.9222,2742897.3765	47162.320m	568750.2290,2742869.9360	37.592m	38.538m		50	Left	7.0	30	1.2
		11°27'33.12"	Transition	47162.320m	568750.2290,2742869.9360	47182.320m	568745.6040,2742850.5146		20.000m	20.000m					
			Line	47182.320m	568745.6040,2742850.5146	47188.112m	568744.6404,2742844.8031		5.792m						
		3°26'15.72"	Transition	47188.112m	568744.6404,2742844.8031	47203.112m	568741.8501,2742830.0673		15.000m	15.000m					
316	568735.8308,2742792.5871	33°4'7.68"	Arc	47203.112m	568741.8501,2742830.0673	47275.257m	568706.7627,2742768.1732	71.148m	72.145m		125	Right	5.7	40	0.6
		3°26'15.72"	Transition	47275.257m	568706.7627,2742768.1732	47290.257m	568695.5519,2742758.2110		15.000m	15.000m					
			Line	47290.257m	568695.5519,2742758.2110	47399.697m	568612.3073,2742687.1655		109.440m						
		12°16'39.72"	Transition	47399.697m	568612.3073,2742687.1655	47429.697m	568590.9791,2742666.1550		30.000m	30.000m					
317	568541.7438,2742626.9429	71°2'46.68"	Arc	47429.697m	568590.9791,2742666.1550	47516.497m	568588.5376,2742584.8472	81.344m	86.799m		70	Left	7.0	40	0.9
		12°16'39.72"	Transition	47516.497m	568588.5376,2742584.8472	47546.497m	568608.5666,2742562.5948		30.000m	30.000m					
			Line	47546.497m	568608.5666,2742562.5948	47563.406m	568620.7468,2742550.8657		16.909m						
		14°19'26.04"	Transition	47563.406m	568620.7468,2742550.8657	47578.406m	568630.6210,2742539.6295		15.000m	15.000m					
318	568658.2939,2742514.7091	82°59'54.6"	Arc	47578.406m	568630.6210,2742539.6295	47621.864m	568623.8935,2742500.4462	39.757m	43.458m		30	Right	5.9	20	1.5
		14°19'26.04"	Transition	47621.864m	568623.8935,2742500.4462	47636.864m	568610.8368,2742493.1472		15.000m	15.000m					
			Line	47636.864m	568610.8368,2742493.1472	47638.187m	568609.6322,2742492.5999		1.323m						
		5°22'17.4"	Transition	47638.187m	568609.6322,2742492.5999	47653.187m	568596.1815,2742485.9741		15.000m	15.000m					
319	568555.7249,2742468.1073	54°56'18.96"	Arc	47653.187m	568596.1815,2742485.9741	47729.896m	568556.2829,2742423.8847	73.804m	76.709m		80	Left	5.0	30	0.9
		5°22'17.4"	Transition	47729.896m	568556.2829,2742423.8847	47744.896m	568555.8447,2742408.8969		15.000m	15.000m					
			Line	47744.896m	568555.8447,2742408.8969	47752.218m	568555.8596,2742401.5742		7.323m						
		28°38'52.44"	Transition	47752.218m	568555.8596,2742401.5742	47782.218m	568551.0074,2742372.3056		30.000m	30.000m					
320	568556.0643,2742300.4661	82°52'37.2"	Arc	47782.218m	568551.0074,2742372.3056	47825.613m	568513.7002,2742358.7051	39.709m	43.394m		30	Right	7.0	30	1.5
		28°38'52.44"	Transition	47825.613m	568513.7002,2742358.7051	47855.613m	568491.1499,2742377.9839		30.000m	30.000m					
			Line	47855.613m	568491.1499,2742377.9839	48068.604m	568354.4037,2742541.2798		212.991m						
		8°35'39.84"	Transition	48068.604m	568354.4037,2742541.2798	48083.604m	568344.2208,2742552.2734		15.000m	15.000m					
321	567991.1369,2742975.0761	152°32'16.8"	Arc	48083.604m	568344.2208,2742552.2734	48216.718m	568264.4591,2742496.8237	97.142m	133.115m		50	Left	3.6	20	1.2
		8°35'39.84"	Transition	48216.718m	568264.4591,2742496.8237	48231.718m	568271.2169,2742483.4490		15.000m	15.000m					
			Line	48231.718m	568271.2169,2742483.4490	48231.911m	568271.3121,2742483.2818		0.192m						
		14°19'26.04"	Transition	48231.911m	568271.3121,2742483.2818	48246.911m	568277.6097,2742469.7137		15.000m	15.000m					

					Scale :- NTS		CLIENT: NATIONAL HIGHWAYS AND INFRASTRUCTURE DEVELOPMENT CORPORATION LTD. PTI Building, 3rd Floor, 4, Parliament Street, New Delhi - 110001	TITLE : HORIZONTAL ALIGNMENT REPORT	CONSULTANT :  CE TESTING COMPANY PVT. LTD. 124-A, N.S.C. Bose Road, Kolkata - 700092.	DWG NO :-CET/4047/NHIDCL/NH-37/I-J/DDPR/HAR					
											REVISION MKD. - R2	SHEET NO. - 11			
					DATE: FEB, 2021	PROJECT: CONSULTANCY SERVICES FOR CARRYING OUT FEASIBILITY STUDY, PREPARATION OF DETAILED PROJECT REPORT AND PROVIDING PRE-CONSTRUCTION SERVICES IN RESPECT OF 2 LANING WITH PAVED SHOULDER OF IMPHAL-JIRIBAM SECTION OF NH-37 (NH-53) (LENGTH- 220 KM) IN THE STATE OF MANIPUR	SUBMISSION TYPE : DRAFT DETAIL PROJECT REPORT								
MKD.	DATE	DESCRIPTION	CHKD.	APPRD.								Drawn By	Designed By	Checked By	Issued By
REVISIONS															
							(PACKAGE NO. III)								

HIP CURVE NO.	HIP COORDINATE (E,N)	DEFLECTION ANGLE	ELEMENT	START		END		CHORD LENGTH	LENGTH	TRANSITION	RADIUS (M)	HAND OF ARC	SUPERELEVATION (%)	DESIGN SPEED (KM/H)	EXTRA WIDENING (M)
				CHAINAGE	COORDINATE (E,N)	CHAINAGE	COORDINATE (E,N)								
			Line	32989.851m	574577.4526,2742710.5566	33046.114m	574541.7241,2742667.0939		56.263m						
322	568330.2366,2742379.8511	120°56'52.8"	Arc	48246.911m	568277.6097,2742469.7137	48310.239m	568240.6105,2742432.8797	52.208m	63.329m		30	Right	5.9	20	1.5
		14°19'26.04"	Transition	48310.239m	568240.6105,2742432.8797	48325.239m	568227.0707,2742439.2379		15.000m	15.000m					
			Line	48325.239m	568227.0707,2742439.2379	48339.260m	568214.9192,2742446.2328		14.021m						
		5°22'17.4"	Transition	48339.260m	568214.9192,2742446.2328	48354.260m	568201.6969,2742453.3035		15.000m	15.000m					
323	568149.1830,2742484.0733	70°11'42.72"	Arc	48354.260m	568201.6969,2742453.3035	48452.271m	568111.2545,2742436.4716	91.995m	98.011m		80	Left	5.0	30	0.9
		5°22'17.4"	Transition	48452.271m	568111.2545,2742436.4716	48467.271m	568101.4613,2742425.1175		15.000m	15.000m					
			Line	48467.271m	568101.4613,2742425.1175	48472.247m	568098.3304,2742421.2496		4.976m						
		11°27'33.12"	Transition	48472.247m	568098.3304,2742421.2496	48492.247m	568084.7640,2742406.6027		20.000m	20.000m					
324	568082.1945,2742401.3152	11°38'47.4"	Arc	48492.247m	568084.7640,2742406.6027	48502.411m	568076.3258,2742400.9690	10.146m	10.164m		50	Right	7.0	30	1.2
		11°27'33.12"	Transition	48502.411m	568076.3258,2742400.9690	48522.411m	568057.5972,2742394.0540		20.000m	20.000m					
			Line	48522.411m	568057.5972,2742394.0540	48577.573m	568004.6924,2742378.4363		55.162m						
		22°55'5.88"	Transition	48577.573m	568004.6924,2742378.4363	48617.573m	567968.4312,2742362.2343		40.000m	40.000m					
325	567958.6191,2742364.8354	11°38'26.16"	Arc	48617.573m	567968.4312,2742362.2343	48627.731m	567961.2837,2742355.0404	10.141m	10.158m		50	Left	7.0	40	1.2
		22°55'5.88"	Transition	48627.731m	567961.2837,2742355.0404	48667.731m	567945.3166,2742318.6751		40.000m	40.000m					
			Line	48667.731m	567945.3166,2742318.6751	48697.760m	567937.0013,2742289.8206		30.029m						
		14°19'26.04"	Transition	48697.760m	567937.0013,2742289.8206	48712.760m	567931.6777,2742275.8416		15.000m	15.000m					
326	567916.8860,2742220.0197	101°27'18"	Arc	48712.760m	567931.6777,2742275.8416	48765.882m	567885.7848,2742268.6776	46.449m	53.122m		30	Right	5.9	20	1.5
		14°19'26.04"	Transition	48765.882m	567885.7848,2742268.6776	48780.882m	567876.4540,2742280.3690		15.000m	15.000m					
			Line	48780.882m	567876.4540,2742280.3690	48785.850m	567873.6885,2742284.4968		4.969m						
		14°19'26.04"	Transition	48785.850m	567873.6885,2742284.4968	48800.850m	567864.3577,2742296.1882		15.000m	15.000m					
327	567841.7619,2742332.1507	88°46'27.48"	Arc	48800.850m	567864.3577,2742296.1882	48847.332m	567822.4285,2742294.3342	41.970m	46.482m		30	Left	5.9	20	1.5
		14°19'26.04"	Transition	48847.332m	567822.4285,2742294.3342	48862.332m	567814.1661,2742281.8648		15.000m	15.000m					
			Line	48862.332m	567814.1661,2742281.8648	48966.878m	567763.8698,2742190.2134		104.545m						
		2°23'14.28"	Transition	48966.878m	567763.8698,2742190.2134	48981.878m	567756.4720,2742177.1659		15.000m	15.000m					
328	567722.2618,2742114.3941	42°35'53.16"	Arc	48981.878m	567756.4720,2742177.1659	49115.703m	567652.8079,2742097.4589	130.765m	133.826m		180	Right	4.0	40	0.6
		2°23'14.28"	Transition	49115.703m	567652.8079,2742097.4589	49130.703m	567638.2978,2742093.6614		15.000m	15.000m					
			Line	49130.703m	567638.2978,2742093.6614	49162.542m	567607.3880,2742086.0290		31.838m						
		8°57'9"	Transition	49162.542m	567607.3880,2742086.0290	49187.542m	567583.4878,2742078.7887		25.000m	25.000m					
329	567575.8215,2742078.2345	10°5'29.76"	Arc	49187.542m	567583.4878,2742078.7887	49201.632m	567571.0475,2742072.2106	14.072m	14.091m		80	Left	7.0	40	0.9
		8°57'9"	Transition	49201.632m	567571.0475,2742072.2106	49226.632m	567551.6080,2742056.5343		25.000m	25.000m					
			Line	49226.632m	567551.6080,2742056.5343	49268.467m	567520.4537,2742028.6138		41.835m						
		11°27'33.12"	Transition	49268.467m	567520.4537,2742028.6138	49288.467m	567504.7319,2742016.3091		20.000m	20.000m					

					Scale :- NTS		CLIENT: NATIONAL HIGHWAYS AND INFRASTRUCTURE DEVELOPMENT CORPORATION LTD. PTI Building, 3rd Floor, 4, Parliament Street, New Delhi - 110001	TITLE : HORIZONTAL ALIGNMENT REPORT	CONSULTANT :  CE TESTING COMPANY PVT. LTD. 124-A, N.S.C. Bose Road, Kolkata - 700092.	DWG NO :-CET/4047/NHIDCL/NH-37/I-J/DDPR/HAR			
										REVISION MKD. - R2		SHEET NO. - 12	
										Drawn By	Designed By	Checked By	Issued By
MKD.	DATE	DESCRIPTION	CHKD.	APPRD.	DATE: FEB, 2021	PROJECT: CONSULTANCY SERVICES FOR CARRYING OUT FEASIBILITY STUDY, PREPARATION OF DETAILED PROJECT REPORT AND PROVIDING PRE-CONSTRUCTION SERVICES IN RESPECT OF 2 LANING WITH PAVED SHOULDER OF IMPHAL-JIRIBAM SECTION OF NH-37 (NH-53) (LENGTH- 220 KM) IN THE STATE OF MANIPUR		SUBMISSION TYPE : DRAFT DETAIL PROJECT REPORT					
REVISIONS								(PACKAGE NO. III)		S.MANDAL	B. DAS	A.DEY	A. K.DAS

VERTICAL ALIGNMENT REPORT

VERTICAL ALIGNMENT REPORT

No.	PVI Station	PVI Elevation	Grade In	Grade Out	Profile Curve Type	Profile Curve Length	K Value	Curve Radius
	33000	1151.987m		0.00%				
109	33057.132m	1151.987m	0.00%	-4.52%	Crest	80.000m	17.686	1768.594m
110	33400.267m	1136.466m	-4.52%	-2.65%	Sag	80.000m	42.636	4263.627m
111	33601.942m	1131.127m	-2.65%	-0.45%	Sag	80.000m	36.441	3644.062m
112	33773.123m	1130.354m	-0.45%	-5.96%	Crest	80.000m	14.525	1452.536m
113	34030.343m	1115.026m	-5.96%	-3.42%	Sag	60.000m	23.629	2362.891m
114	34461.793m	1100.270m	-3.42%	0.00%	Sag	80.000m	23.392	2339.165m
115	34616.506m	1100.270m	0.00%	-4.87%	Crest	80.000m	16.43	1643.011m
116	34874.331m	1087.716m	-4.87%	-3.04%	Sag	80.000m	43.745	4374.453m
117	35319.426m	1074.184m	-3.04%	-1.82%	Sag	120.000m	98.37	9836.969m
118	35630.648m	1068.518m	-1.82%	-2.50%	Crest	80.000m	117.72	11772.019m
119	35841.670m	1063.243m	-2.50%	-3.53%	Crest	80.000m	77.693	7769.341m
120	36608.617m	1036.172m	-3.53%	0.00%	Sag	80.000m	22.665	2266.489m
121	36756.975m	1036.172m	0.00%	-2.98%	Crest	40.000m	13.425	1342.483m
122	37208.328m	1022.724m	-2.98%	-4.16%	Crest	80.000m	67.726	6772.642m
123	37702.126m	1002.178m	-4.16%	-3.66%	Sag	80.000m	158.65	15865.010m
124	37952.640m	993.018m	-3.66%	-4.35%	Crest	80.000m	115.775	11577.492m
125	38263.372m	979.509m	-4.35%	-6.50%	Crest	80.000m	37.166	3716.639m
126	38441.357m	967.940m	-6.50%	-7.00%	Crest	80.000m	160	16000.000m
127	38700.541m	949.797m	-7.00%	-5.31%	Sag	80.000m	47.211	4721.145m
128	39026.474m	932.504m	-5.31%	-3.41%	Sag	80.000m	42.224	4222.391m
129	39141.700m	928.574m	-3.41%	-4.68%	Crest	50.000m	39.548	3954.810m
130	39368.705m	917.961m	-4.68%	-4.25%	Sag	50.000m	117.804	11780.373m
131	39708.071m	903.536m	-4.25%	-2.34%	Sag	60.000m	31.355	3135.541m
132	39879.772m	899.523m	-2.34%	-4.58%	Crest	80.000m	35.707	3570.675m
133	40740.561m	860.120m	-4.58%	-3.57%	Sag	80.000m	79.733	7973.337m
134	41761.477m	823.629m	-3.57%	-4.27%	Crest	80.000m	114.4	11440.006m
135	41942.753m	815.882m	-4.27%	-2.76%	Sag	60.000m	39.707	3970.659m
136	42009.501m	814.038m	-2.76%	-6.21%	Crest	40.000m	11.594	1159.445m

					Scale :- NTS		CLIENT: NATIONAL HIGHWAYS AND INFRASTRUCTURE DEVELOPMENT CORPORATION LTD. PTI Building, 3rd Floor, 4, Parliament Street, New Delhi - 110001	TITLE : VERTICAL ALIGNMENT REPORT	CONSULTANT :  CE TESTING COMPANY PVT. LTD. 124-A, N.S.C. Bose Road, Kolkata - 700092.	DWG NO :-CET/4047/NHIDCL/NH-37/I-J/DDPR/VAR					
										REVISION MKD. - R2		SHEET NO. - 01			
					DATE: FEB, 2021		PROJECT: CONSULTANCY SERVICES FOR CARRYING OUT FEASIBILITY STUDY, PREPARATION OF DETAILED PROJECT REPORT AND PROVIDING PRE-CONSTRUCTION SERVICES IN RESPECT OF 2 LANING WITH PAVED SHOULDER OF IMPHAL-JIRIBAM SECTION OF NH-37 (NH-53) (LENGTH- 220 KM) IN THE STATE OF MANIPUR	SUBMISSION TYPE : DRAFT DETAIL PROJECT REPORT				Drawn By	Designed By	Checked By	Issued By
MKD.	DATE	DESCRIPTION	CHKD.	APPRD.								S.MANDAL	B. DAS	A.DEY	A. K.DAS
REVISIONS															

VERTICAL ALIGNMENT REPORT

No.	PVI Station	PVI Elevation	Grade In	Grade Out	Profile Curve Type	Profile Curve Length	K Value	Curve Radius
137	42066.442m	810.501m	-6.21%	-0.73%	Sag	60.000m	10.933	1093.321m
138	42134.617m	810.007m	-0.73%	-3.50%	Crest	50.000m	18.043	1804.318m
139	42279.324m	804.949m	-3.50%	-2.10%	Sag	50.000m	35.845	3584.451m
140	42357.478m	803.307m	-2.10%	-4.60%	Crest	50.000m	20.026	2002.567m
141	42477.473m	797.790m	-4.60%	0.00%	Sag	80.000m	17.402	1740.189m
142	42617.140m	797.790m	0.00%	-3.43%	Crest	80.000m	23.307	2330.688m
143	43027.703m	783.696m	-3.43%	-2.21%	Sag	80.000m	65.177	6517.732m
144	43240.985m	778.992m	-2.21%	-3.91%	Crest	80.000m	46.917	4691.739m
145	43440.471m	771.191m	-3.91%	-2.19%	Sag	80.000m	46.581	4658.051m
146	43609.630m	767.481m	-2.19%	-3.59%	Crest	80.000m	57.466	5746.580m
147	43881.597m	757.731m	-3.59%	-3.00%	Sag	80.000m	136.708	13670.752m
148	44441.471m	740.934m	-3.00%	-3.88%	Crest	80.000m	90.449	9044.877m
149	44671.832m	731.986m	-3.88%	-3.09%	Sag	80.000m	100.679	10067.915m
150	44831.487m	727.053m	-3.09%	-4.01%	Crest	80.000m	87.299	8729.936m
151	45224.870m	711.293m	-4.01%	-3.11%	Sag	80.000m	89.325	8932.545m
152	45535.994m	701.615m	-3.11%	-4.87%	Crest	80.000m	45.59	4558.981m
153	45981.116m	679.958m	-4.87%	-4.61%	Sag	80.000m	308.981	30898.084m
154	46346.345m	663.133m	-4.61%	-5.86%	Crest	80.000m	64.007	6400.655m
155	46650.498m	645.321m	-5.86%	-3.43%	Sag	150.000m	61.85	6184.984m
156	46818.387m	639.560m	-3.43%	-5.03%	Crest	80.000m	50.106	5010.588m
157	46955.977m	632.643m	-5.03%	-4.09%	Sag	80.000m	84.996	8499.553m
158	47167.063m	624.016m	-4.09%	-4.68%	Crest	80.000m	134.971	13497.124m
159	47733.006m	597.534m	-4.68%	-2.10%	Sag	80.000m	30.974	3097.359m
160	47838.516m	595.322m	-2.10%	-4.93%	Crest	80.000m	28.21	2821.019m
161	48093.478m	582.747m	-4.93%	-5.96%	Crest	80.000m	78.202	7820.224m
162	48577.998m	553.892m	-5.96%	-5.00%	Sag	80.000m	83.655	8365.483m
163	48701.429m	547.722m	-5.00%	-5.83%	Crest	80.000m	96.865	9686.472m
164	48846.225m	539.288m	-5.83%	-5.21%	Sag	120.000m	195.266	19526.585m

					Scale :- NTS		CLIENT: NATIONAL HIGHWAYS AND INFRASTRUCTURE DEVELOPMENT CORPORATION LTD. PTI Building, 3rd Floor, 4, Parliament Street, New Delhi - 110001	TITLE : VERTICAL ALIGNMENT REPORT	CONSULTANT :  CE TESTING COMPANY PVT. LTD. 124-A, N.S.C. Bose Road, Kolkata - 700092.	DWG NO :-CET/4047/NHIDCL/NH-37/I-J/DDPR/VAR			
										REVISION MKD. - R2		SHEET NO. - 02	
					DATE: FEB, 2021		PROJECT: CONSULTANCY SERVICES FOR CARRYING OUT FEASIBILITY STUDY, PREPARATION OF DETAILED PROJECT REPORT AND PROVIDING PRE-CONSTRUCTION SERVICES IN RESPECT OF 2 LANING WITH PAVED SHOULDER OF IMPHAL-JIRIBAM SECTION OF NH-37 (NH-53) (LENGTH- 220 KM) IN THE STATE OF MANIPUR	SUBMISSION TYPE : DRAFT DETAIL PROJECT REPORT		Drawn By	Designed By	Checked By	Issued By
MKD.	DATE	DESCRIPTION	CHKD.	APPRD.									
REVISIONS										S.MANDAL	B. DAS	A.DEY	A. K.DAS
								(PACKAGE NO. III)					

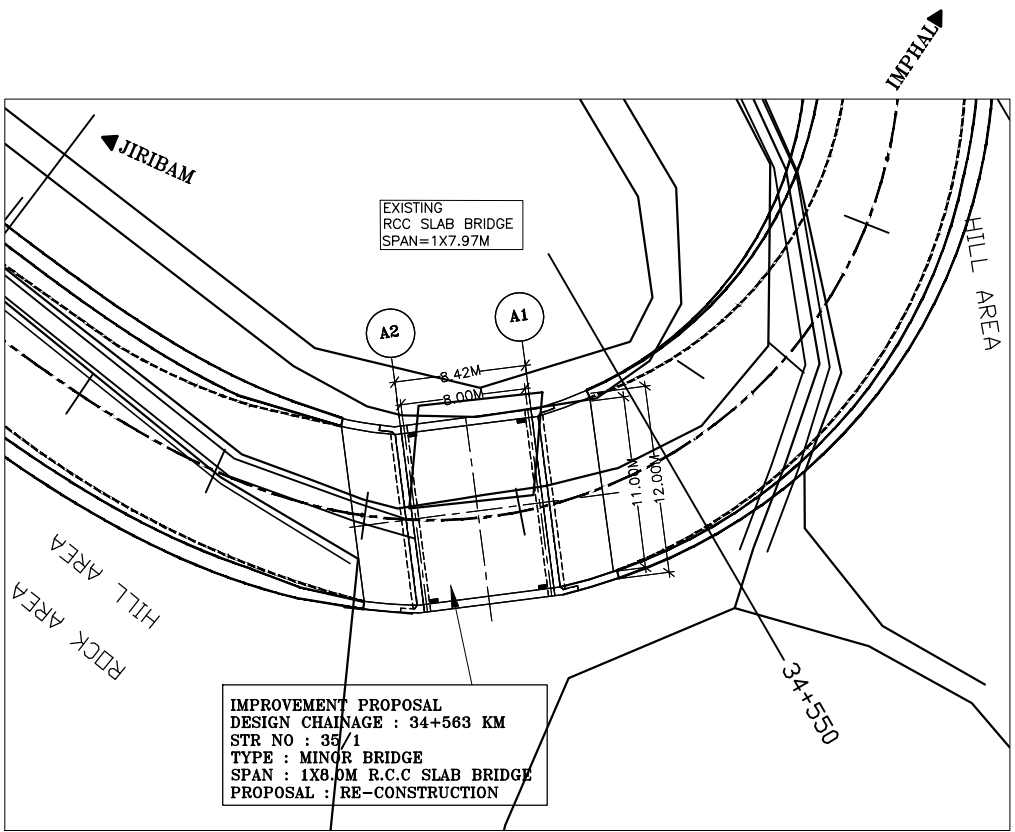
STRUCTURE DRAWING

CONTENT

(PROPOSED STRUCTURES OF IMPHAL-JIRIBAM ROAD)

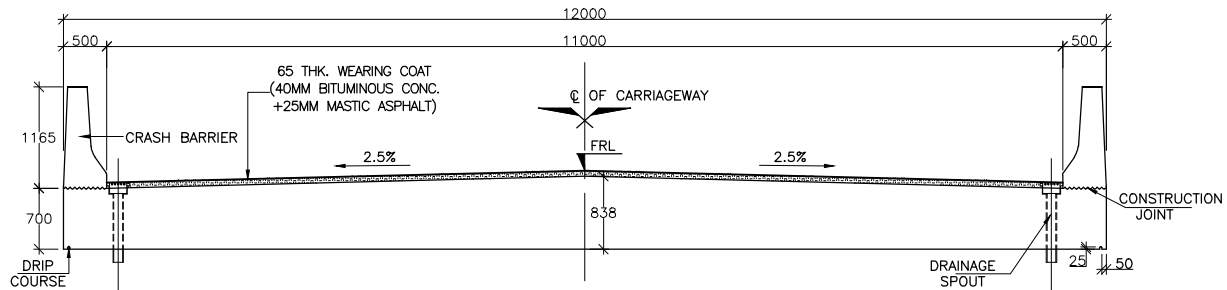
GENERAL ARRANGEMENT DRAWING

SL. NO.	DESIGN CHAINAGE	STR. NO.	IMPROVEMENT TYPE	DESCRIPTION	DRAWING NO.	NO. OF SHEETS
01.	34.563 KM	35/1	RE-CONSTRUCTION	1 X 8.0M R.C.C SLAB BRIDGE :-		
				GENERAL ARRANGEMENT	CET/BDG/2017/4047/NH-37/IMPHAL-JIRIBAM/FDPR/MN/(STR-37/1)/GA	02
				MISCELLANEOUS DETAILS	CET/BDG/2017/4047/NH-37/IMPHAL-JIRIBAM/FDPR/MN/(STR-37/1)/MISC	01
02.	36.730 KM	37/1	RE-CONSTRUCTION	1 X 8.0M R.C.C SLAB BRIDGE :-		
				GENERAL ARRANGEMENT	CET/BDG/2017/4047/NH-37/IMPHAL-JIRIBAM/FDPR/MN/(STR-37/1)/GA	02
				MISCELLANEOUS DETAILS	CET/BDG/2017/4047/NH-37/IMPHAL-JIRIBAM/FDPR/MN/(STR-37/1)/MISC	01
03.	42.549 KM	43/1	RE-CONSTRUCTION	1 X 8.0M R.C.C SLAB BRIDGE :-		
				GENERAL ARRANGEMENT	CET/BDG/2017/4047/NH-37/IMPHAL-JIRIBAM/FDPR/MN/(STR-43/1)/GA	02
				MISCELLANEOUS DETAILS	CET/BDG/2017/4047/NH-37/IMPHAL-JIRIBAM/FDPR/MN/(STR-43/1)/MISC	01



LOCATION PLAN

SCALE : NTS.

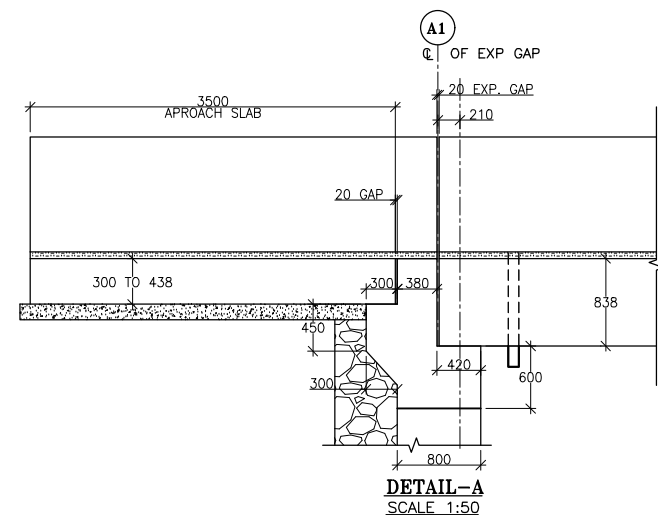
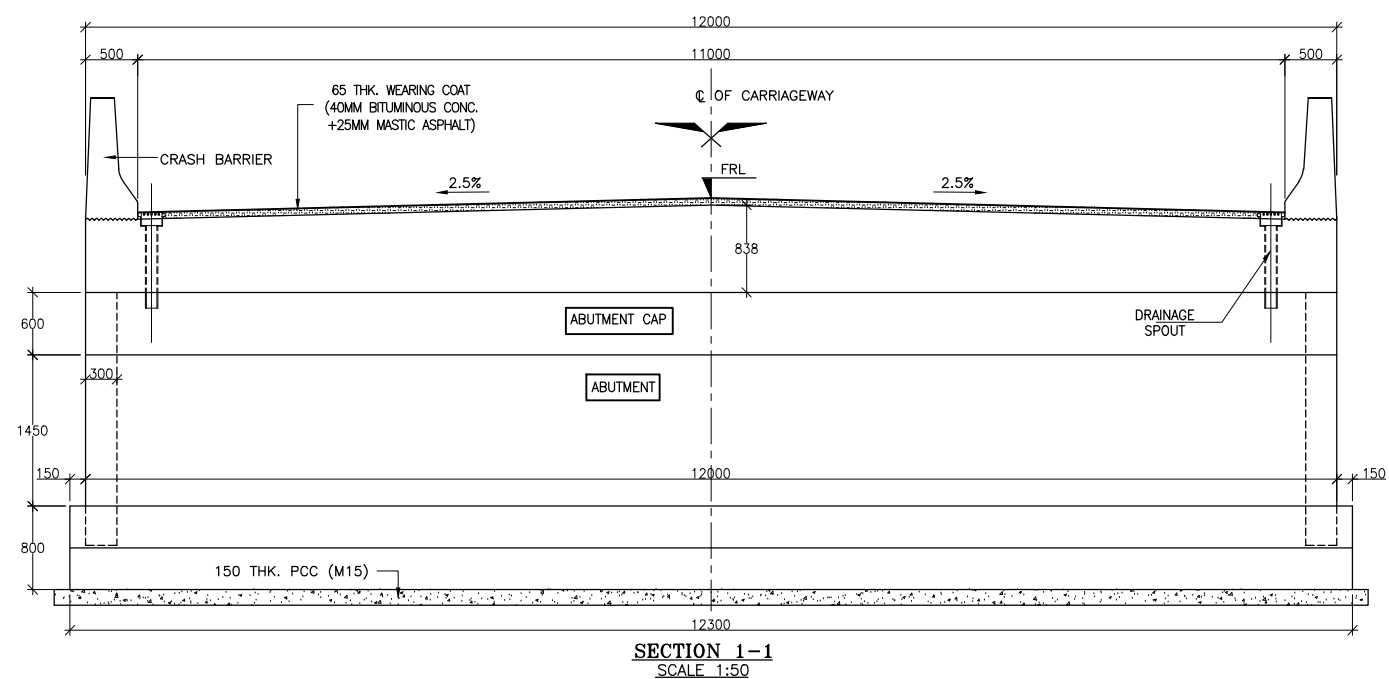


HALF FOUNDATION PLAN

SCALE 1:100

					SCALE: AS SHOWN		CLIENT: NATIONAL HIGHWAYS AND INFRASTRUCTURE DEVELOPMENT CORPORATION LTD. 4, PARLIAMENT STREET, NEW DELHI - 110001	TITLE : GENERAL ARRANGEMENT OF 1 X 8.0M RCC SLAB BRIDGE (AT CHAINAGE 34.563KM) PKG NO. - NHIDCL/DPR/CT-IJ-TP/MANIPUR/2017	CONSULTANT :  CE TESTING COMPANY PVT. LTD. 124-A, N.S.C. Bose Road Kolkata - 700092.				DWG. NO. CET/BDG/2017/4047/NH-37/IMPHAL-JIRIBAM/FDPR/MN/(STR-60/9)/GA
RO	JAN, 2021								REVISION MKD. - R2 (SHEET NO. 01 OF 02)				
DATE	DESCRIPTION	CHKD.	APPRD.	DATE: FEBRUARY, 2021	PROJECT: CONSULTANCY SERVICES FOR PREPARATION OF DETAILED PROJECT REPORT AND PROVIDING PRE-CONSTRUCTION SERVICES IN RESPECT OF 4 LANING WITH PAVED SHOULDER OF IMPHAL - JIRIBAM SECTION (LENGTH-220 KM) ON NH-37 (NH-53) FOR PROPOSED BRIDGE OVER RIVER IRANG IN THE STATE OF MANIPUR.	SUBMISSION TYPE : FINAL DETAILED PROJECT REPORT			ISSUED BY.				
REVISIONS													

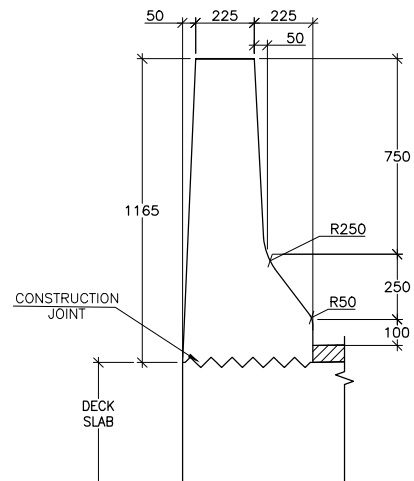
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CET/BDG/2017/4047/NH-37/IMPHAL-JIRIBAM/FDPR/MN/(STR-60/9)/GA
(SHEET NO. 02)
CET/BDG/2017/4047/NH-37/IMPHAL-JIRIBAM/FDPR/MN/(STR-60/9)/MISC
(SHEET NO. 02)



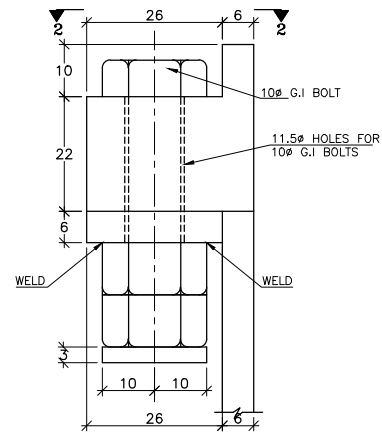
NOTES:-

1. ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS ARE IN M .
UNLESS OTHERWISE MENTIONED. ONLY WRITTEN DIMENSIONS
SHALL BE FOLLOWED.
2. THIS DRAWING IS PREPARED IN CONNECTION WITH :
CET/BDG/2017/4047/NH-37/IMPHAL-JIRIBAM/FDPR/MN/(STR-60/9)/GA
(SHEET NO. 01)
CET/BDG/2017/4047/NH-37/IMPHAL-JIRIBAM/FDPR/MN/(STR-60/9)/MISC
(SHEET NO. 01)

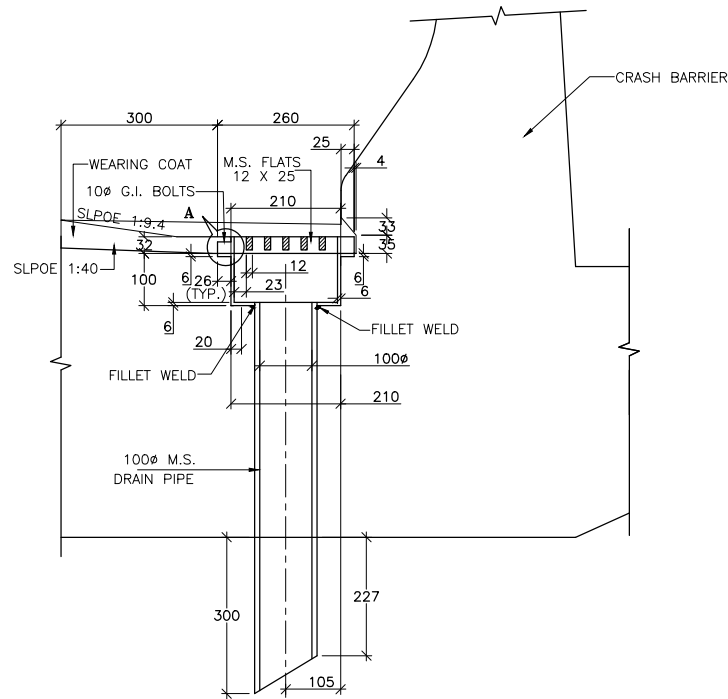
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R0	JAN. 2021							PKG NO. - NHIDCL/DPR/CT-JP-TJ/MANIPUR/2017		REVISION MKD. - R2 (SHEET NO. 02 OF 02)
MKD.	DATE	DESCRIPTION	CHKD.	APPRD.	DATE: FEBRUARY, 2021	PROJECT:	CONSULTANCY SERVICES FOR PREPARATION OF DETAILED PROJECT REPORT AND PROVIDING PRE-CONSTRUCTION SERVICES IN RESPECT OF 4 LANING WITH PAVED SHOULDER OF IMPHAL - JIRIBAM SECTION (LENGTH-220 KM) ON NH-37 (NH-53) FOR PROPOSED BRIDGE OVER RIVER IRANG IN THE STATE OF MANIPUR.	SUBMISSION TYPE :		DRAWN BY. DESIGN BY. CHECKED BY. ISSUED BY.
REVISIONS								FINAL DETAILED PROJECT REPORT		 M.GHOSH  S.ALI  A.DEY  A.K.DAS (TEAM LEADER)



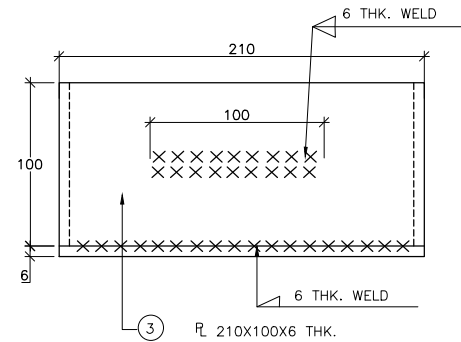
DETAILS OF CRASH BARRIER
(FOR GENERAL ARRANGEMENT)
SCALE-1:20



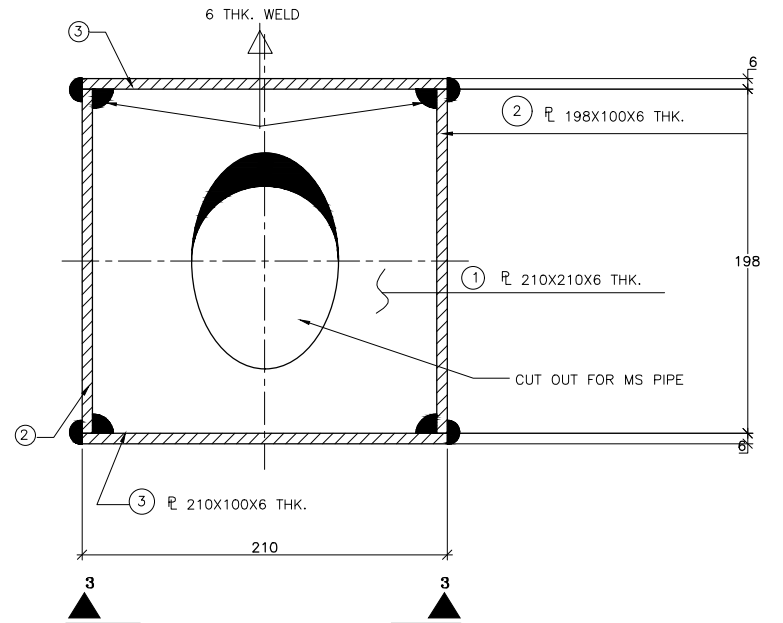
DETAIL - A
SCALE- 1:1



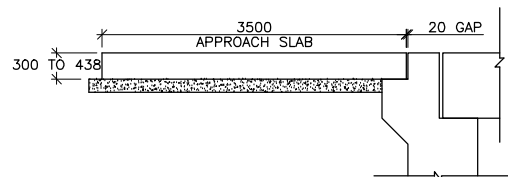
SECTION 1-1
SCALE- 1:10



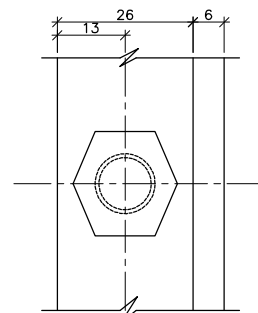
VIEW: 3-3
SCALE 1:3



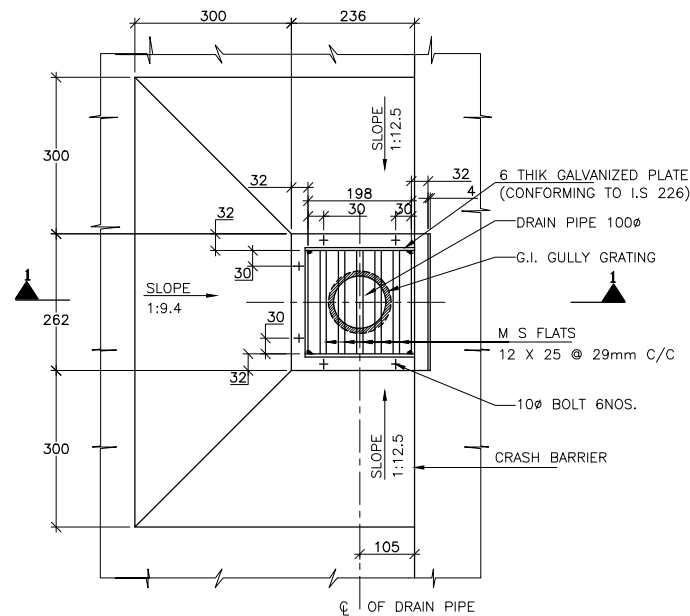
DETAIL OF DRAINAGE BOX
SCALE 1:3



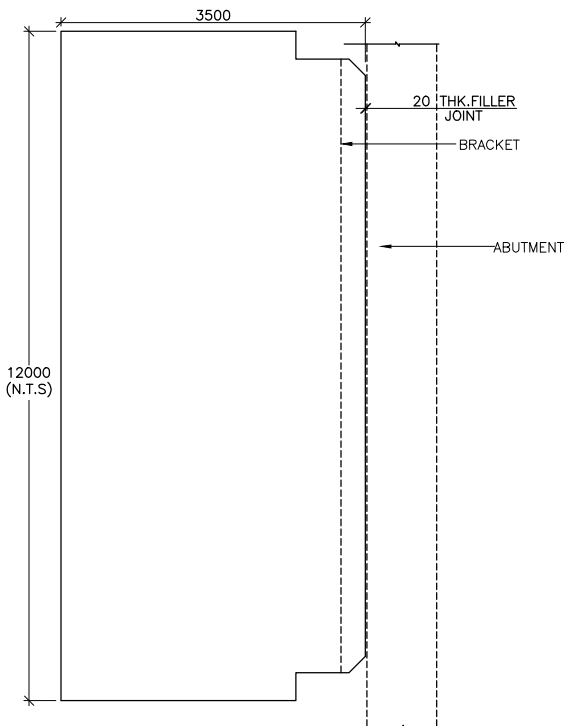
DETAILS OF APPROACH SLAB
SCALE 1:60



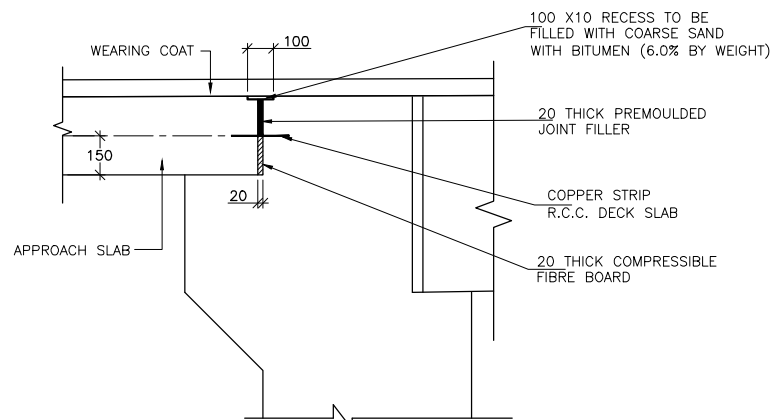
PLAN AT 2-2
SCALE- 1:1



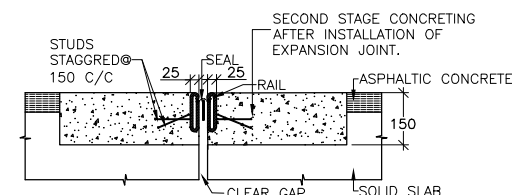
**PLAN
DETAIL OF DRAINAGE
SPOUT AND COLLECTION PIT**
SCALE- 1:10



PLAN OF APPROACH SLAB
SCALE 1:60



DETAILS OF FILLER JOINT
SCALE- 1:20



**DETAIL OF STRIP TYPE EXPANSION JOINT
(40MM GAP)**
SCALE 1:15

GENERAL NOTES :

1. ALL DIMENSIONS ARE IN mm. UNLESS OTHERWISE NOTED.

RAILING :

1. REINFORCEMENT OF RAILING POST SHOULD BE SUITABLY ANCHORED IN DECK SLAB.
2. CASTING OF POST SHALL BE DONE IN SINGLE POUR AFTER ACCURATELY POSITIONING THE PRECAST HANDRAIL.
3. RAILING SHALL BE CONSTRUCTED ONLY AFTER THE STRUCTURAL CONCRETE OF SUPERSTRUCTURE HAS HARDENED AND SHUTTERING IS RELEASED.
4. EXPANSION GAPS IN RAILING SHALL BE PROVIDED AT THE SAME LOCATIONS AS IN THE DECK SLAB.

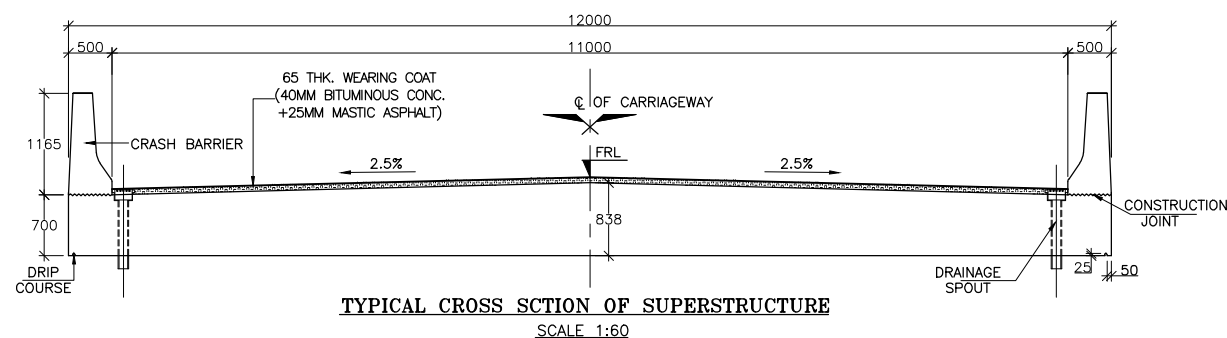
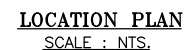
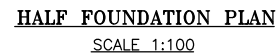
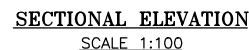
NOTES FOR DRAINAGE SPOUT

1. ONLY FIGURED DIMENSIONS ARE TO BE FOLLOWED.
2. ALL STEEL WORK SHALL BE AS PER IS - 2062.
3. DRAINAGE SPOUT & COLLECTION PIT ASSEMBLY SHALL BE FABRICATED FROM MILD STEEL & AFTER FABRICATION, THE COMPLETE ASSEMBLY EXCEPT GRATING SHALL BE GIVEN A HOT DIPPED GALVANISED COATING.
4. THE REINFORCEMENT OF TOP SLAB OF INTEGRAL SLAB SHALL BE SUITABLY MODIFIED TO ACCOMMODATE THE DRAINAGE SPOUT.
5. THE DRAINAGE SPOUT SHALL BE GALVANIZED AFTER WELDING THE PLATES & FLATS.

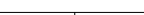
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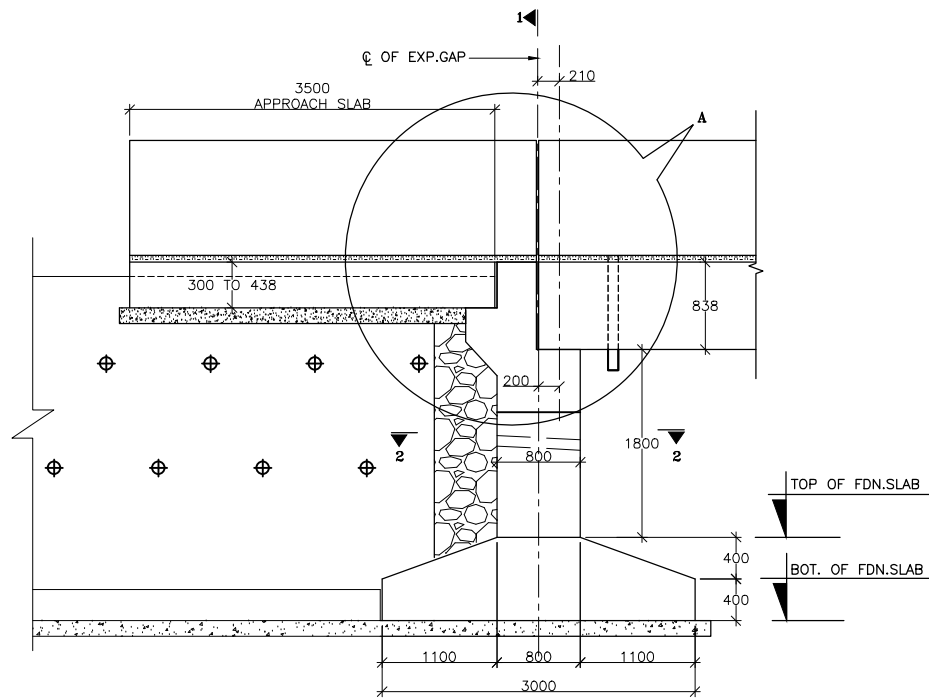
CET/BDG/2017/4047/NH-37/IMPAL-JIRIBAM/FDPR/MN/(STR-60/9)/GA
(SHEET NO. 01 TO 02)

					SCALE: AS SHOWN		CLIENT: NATIONAL HIGHWAYS AND INFRASTRUCTURE DEVELOPMENT CORPORATION LTD. 4, PARLIAMENT STREET, NEW DELHI - 110001	TITLE : DETAILS OF CRASH BARRIER, FILLER JOINT & DRAINAGE SPOUT PKG NO. - NHIDCL/DPR/CT-IJ-TP/MANIPUR/2017	CONSULTANT :  CE TESTING COMPANY PVT. LTD. 124-A, N.S.C. Bose Road Kolkata - 700092.	DWG. NO. CET/BDG/2017/4047/NH-37/IMPAL-JIRIBAM/FDPR/MN/(STR-60/9)/MISC			
					DATE: FEBRUARY, 2021					(SHEET NO. 01 OF 01)			
R0	JAN, 2021					PROJECT: CONSULTANCY SERVICES FOR PREPARATION OF DETAILED PROJECT REPORT AND PROVIDING PRE-CONSTRUCTION SERVICES IN RESPECT OF 4 LANING WITH PAVED SHOULDER OF IMPHAL - JIRIBAM SECTION (LENGTH-220 KM) ON NH-37 (NH-53) FOR PROPOSED BRIDGE OVER RIVER IRANG IN THE STATE OF MANIPUR.	SUBMISSION TYPE : FINAL DETAILED PROJECT REPORT			DRAWN BY.	DESIGN BY.	CHECKED BY.	ISSUED BY.
REVISIONS										M.GHOSH	SALI	A.DEY	A.K.DAS (TEAM LEADER)

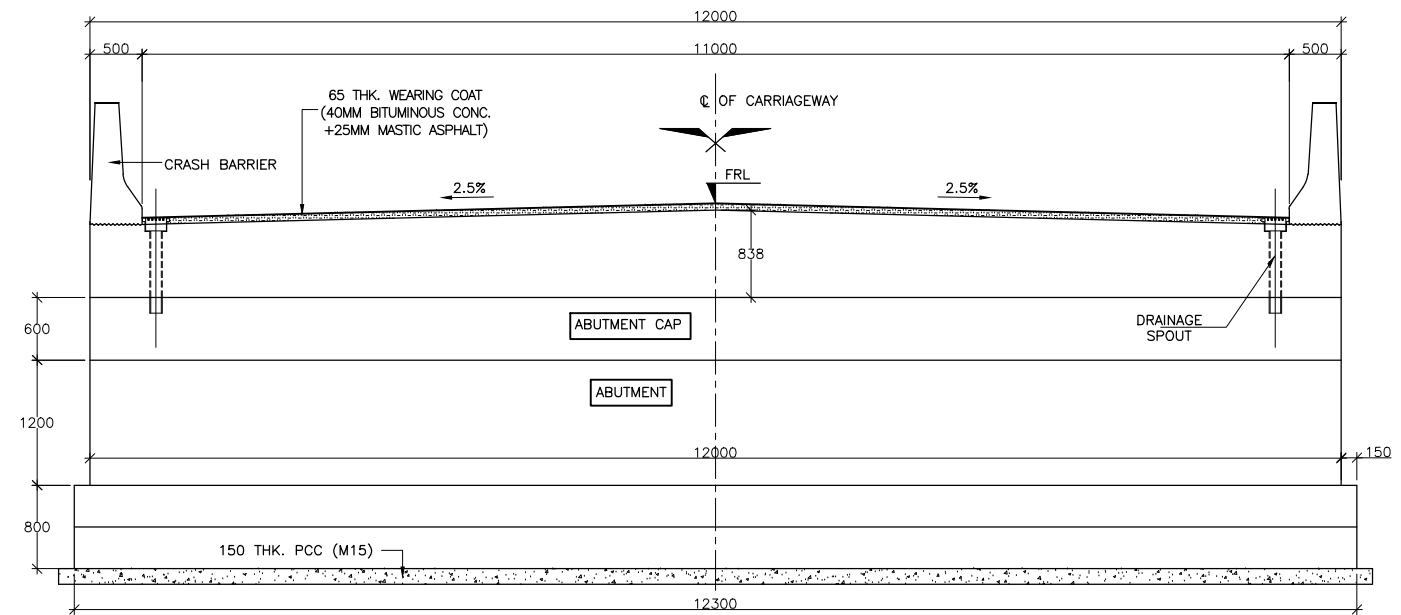


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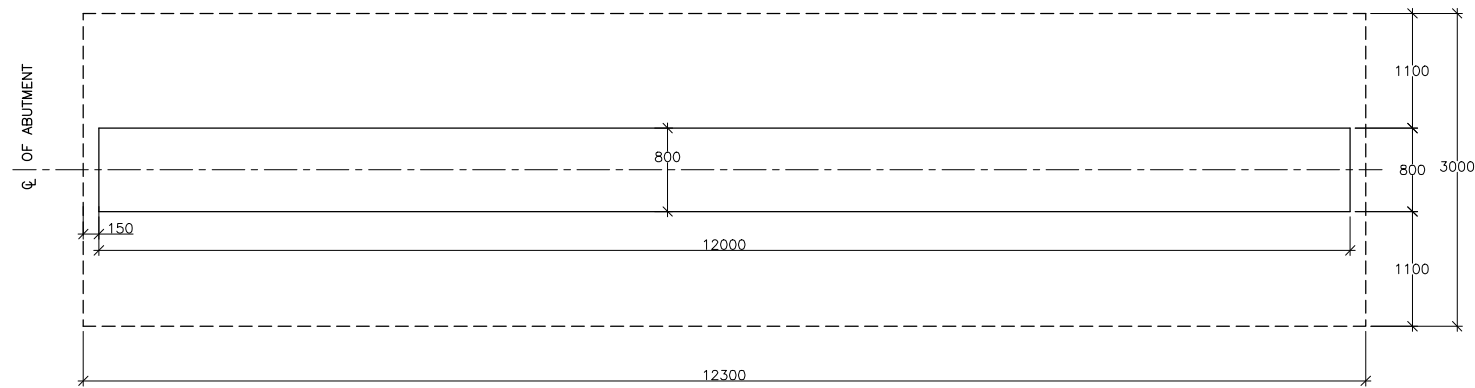
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RO	JAN, 2021										(SHEET NO. 01 OF 02)			
					DATE: FEBRUARY, 2021	PROJECT: CONSULTANCY SERVICES FOR PREPARATION OF DETAILED PROJECT REPORT AND PROVIDING PRE-CONSTRUCTION SERVICES IN RESPECT OF 4 LANING WITH PAVED SHOULDER OF IMPHAL - JIRIBAM SECTION (LENGTH-220 KM) ON NH-37 (NH-53) FOR PROPOSED BRIDGE OVER RIVER IRANG IN THE STATE OF MANIPUR.	SUBMISSION TYPE : FINAL DETAILED PROJECT REPORT							
MKD.	DATE	DESCRIPTION	CHKD.	APPRD.										
REVISIONS														



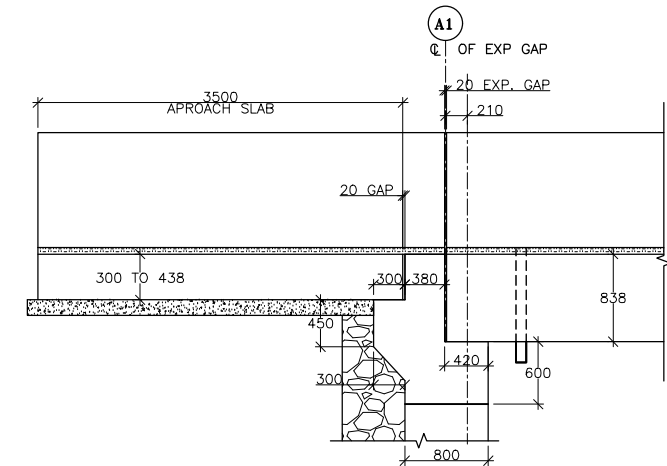
SECTIONAL ELEVATION
SCALE 1:50



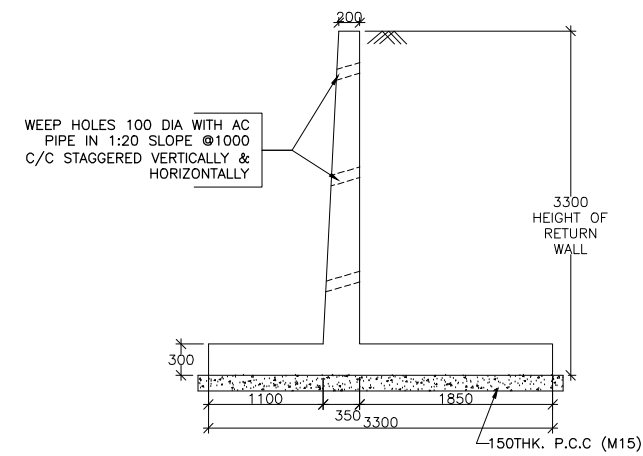
SECTION 1-1
SCALE 1:50



SECTION 2-2
SCALE 1:50



DETAIL-A
SCALE 1:50

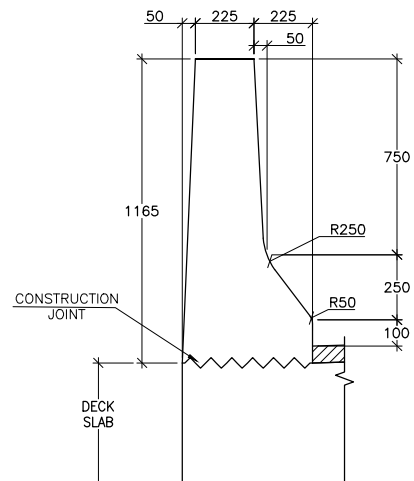


(DETAIL OF RETURN WALL)
(SCALE-1:50)

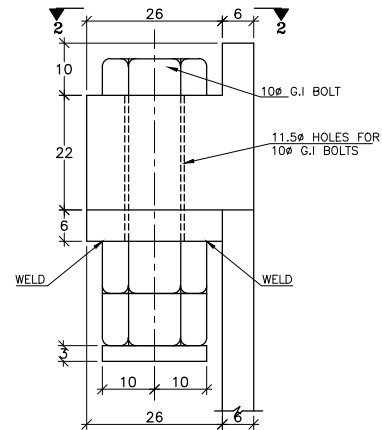
NOTES:-

- ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS ARE IN M . UNLESS OTHERWISE MENTIONED. ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
- THIS DRAWING IS PREPARED IN CONNECTION WITH :
CET/BDG/2017/4047/NH-37/IMPHAL-JIRIBAM/FDPR/MN/(STR-37/1)/GA (SHEET NO. 01)
CET/BDG/2017/4047/NH-37/IMPHAL-JIRIBAM/FDPR/MN/(STR-37/1)/MISO (SHEET NO. 01)

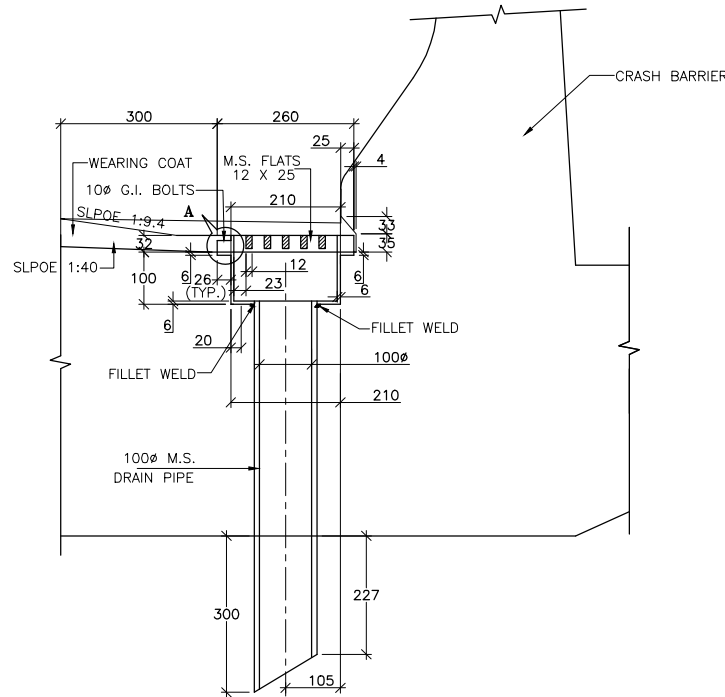
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R0	JAN,2021							PKG NO. - NHIDCL/DPR/CT-IJ-TP/MANIPUR/2017			(SHEET NO. 02 OF 02)			
MKD.	DATE	DESCRIPTION	CHKD.	APPRD.	DATE: FEBRUARY, 2021	PROJECT: CONSULTANCY SERVICES FOR PREPARATION OF DETAILED PROJECT REPORT AND PROVIDING PRE-CONSTRUCTION SERVICES IN RESPECT OF 4 LANING WITH PAVED SHOULDER OF IMPHAL - JIRIBAM SECTION (LENGTH-220 KM) ON NH-37 (NH-53) FOR PROPOSED BRIDGE OVER RIVER IRANG IN THE STATE OF MANIPUR.		SUBMISSION TYPE : FINAL DETAILED PROJECT REPORT						
REVISIONS														



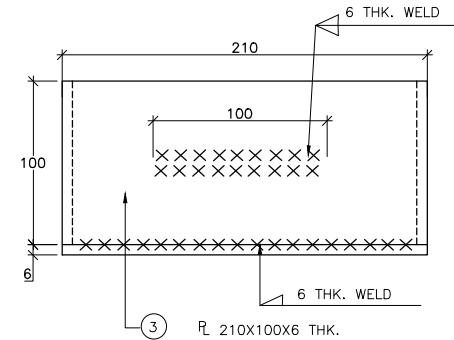
DETAILS OF CRASH BARRIER
(FOR GENERAL ARRANGEMENT)
SCALE-1:20



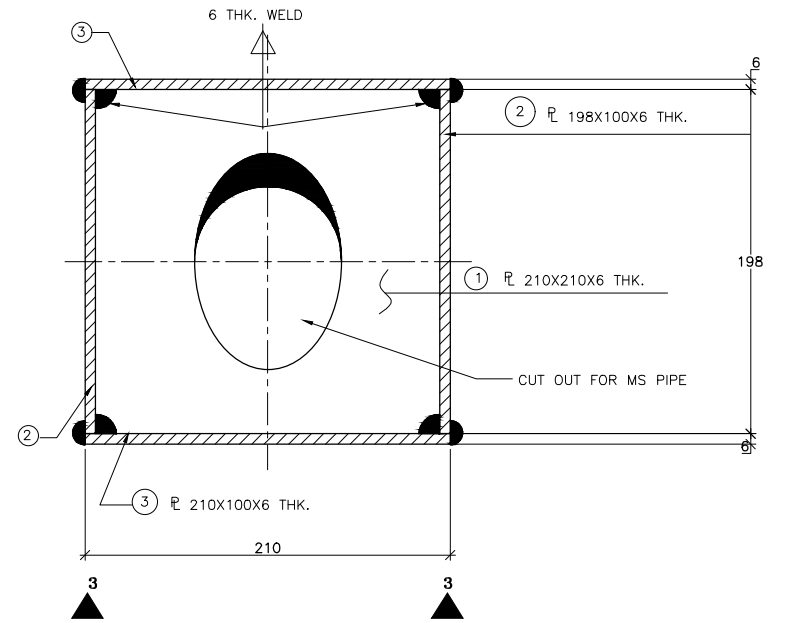
DETAIL - A
SCALE- 1:1



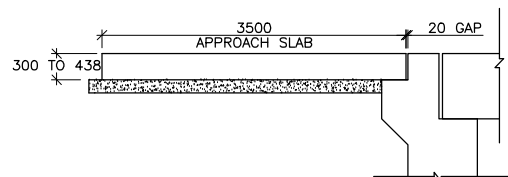
SECTION 1-1
SCALE- 1:10



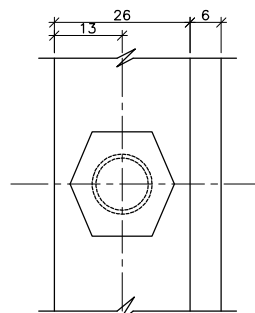
VIEW: 3-3
SCALE 1:3



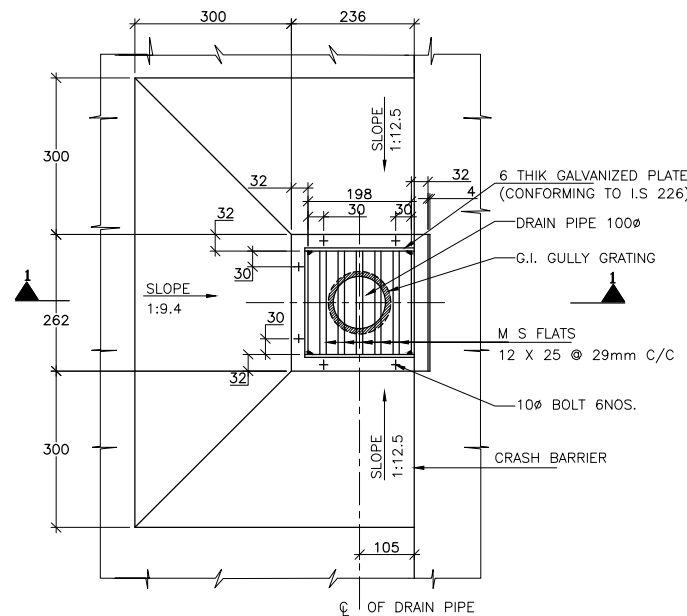
DETAIL OF DRAINAGE BOX
SCALE 1:3



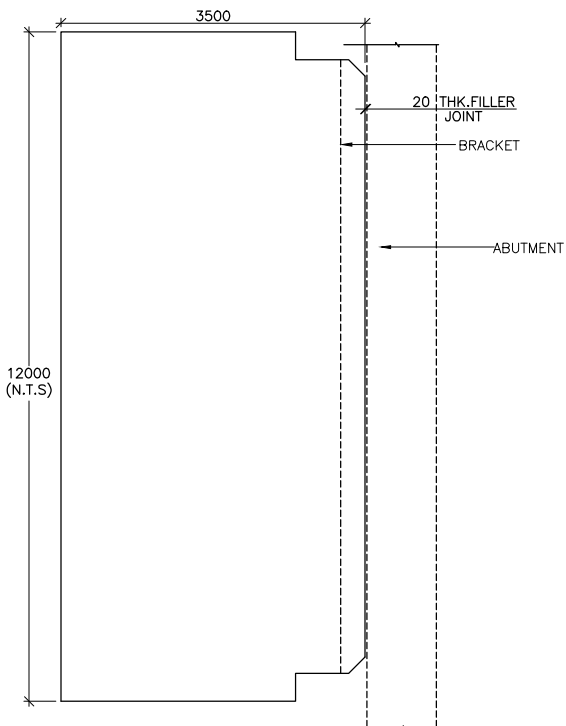
DETAILS OF APPROACH SLAB
SCALE 1:60



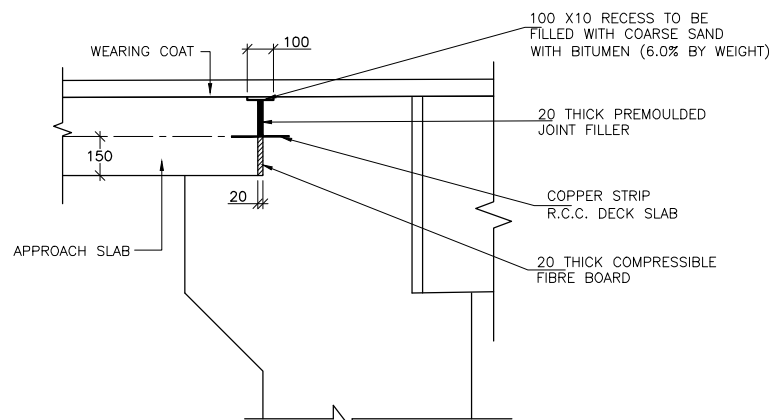
PLAN AT 2-2
SCALE- 1:1



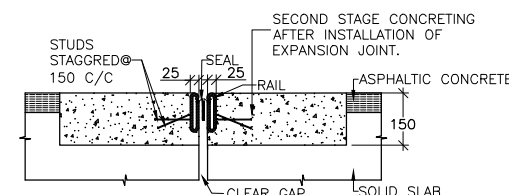
**PLAN
DETAIL OF DRAINAGE
SPOUT AND COLLECTION PIT**
SCALE- 1:10



PLAN OF APPROACH SLAB
SCALE 1:60



DETAILS OF FILLER JOINT
SCALE- 1:20



**DETAIL OF STRIP TYPE EXPANSION JOINT
(40MM GAP)**
SCALE 1:15

GENERAL NOTES :

1. ALL DIMENSIONS ARE IN mm. UNLESS OTHERWISE NOTED.

RAILING :

1. REINFORCEMENT OF RAILING POST SHOULD BE SUITABLY ANCHORED IN DECK SLAB.
2. CASTING OF POST SHALL BE DONE IN SINGLE POUR AFTER ACCURATELY POSITIONING THE PRECAST HANDRAIL.
3. RAILING SHALL BE CONSTRUCTED ONLY AFTER THE STRUCTURAL CONCRETE OF SUPERSTRUCTURE HAS HARDENED AND SHUTTERING IS RELEASED.
4. EXPANSION GAPS IN RAILING SHALL BE PROVIDED AT THE SAME LOCATIONS AS IN THE DECK SLAB.

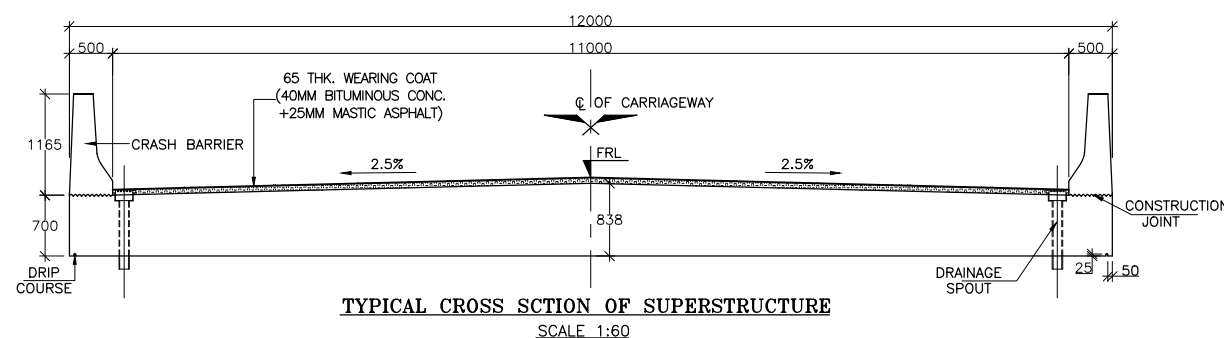
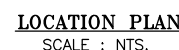
NOTES FOR DRAINAGE SPOUT

1. ONLY FIGURED DIMENSIONS ARE TO BE FOLLOWED.
2. ALL STEEL WORK SHALL BE AS PER IS - 2062.
3. DRAINAGE SPOUT & COLLECTION PIT ASSEMBLY SHALL BE FABRICATED FROM MILD STEEL & AFTER FABRICATION, THE COMPLETE ASSEMBLY EXCEPT GRATING SHALL BE GIVEN A HOT DIPPED GALVANISED COATING.
4. THE REINFORCEMENT OF TOP SLAB OF INTEGRAL SLAB SHALL BE SUITABLY MODIFIED TO ACCOMMODATE THE DRAINAGE SPOUT.
5. THE DRAINAGE SPOUT SHALL BE GALVANIZED AFTER WELDING THE PLATES & FLATS.

REFERENCE DRAWINGS :

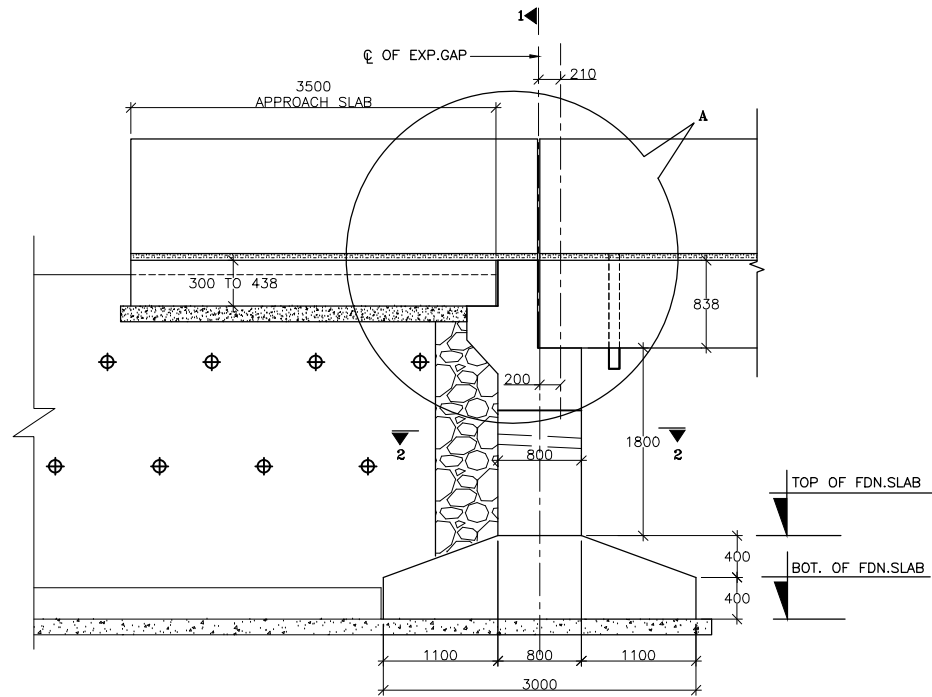
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(SHEET NO. 01 TO 02)

					SCALE: AS SHOWN		CLIENT: NATIONAL HIGHWAYS AND INFRASTRUCTURE DEVELOPMENT CORPORATION LTD. 4, PARLIAMENT STREET, NEW DELHI - 110001	TITLE : DETAILS OF CRASH BARRIER, FILLER JOINT & DRAINAGE SPOUT PKG NO. - NHIDCL/DPR/CT-IJ-TP/MANIPUR/2017	CONSULTANT :  CE TESTING COMPANY PVT. LTD. 124-A, N.S.C. Bose Road Kolkata - 700092.	DWG. NO. CET/BDG/2017/4047/NH-37/IMPAL-JIRIBAM/FDPR/MN/(STR-37/1)/MISC			
					DATE: FEBRUARY, 2021					(SHEET NO. 01 OF 01)			
R0	JAN, 2021					PROJECT: CONSULTANCY SERVICES FOR PREPARATION OF DETAILED PROJECT REPORT AND PROVIDING PRE-CONSTRUCTION SERVICES IN RESPECT OF 4 LANE WITH PAVED SHOULDER OF IMPHAL - JIRIBAM SECTION (LENGTH-220 KM) ON NH-37 (NH-53) FOR PROPOSED BRIDGE OVER RIVER IRANG IN THE STATE OF MANIPUR.	SUBMISSION TYPE : FINAL DETAILED PROJECT REPORT			DRAWN BY.	DESIGN BY.	CHECKED BY.	ISSUED BY.
REVISIONS													
MKD.	DATE	DESCRIPTION	CHKD.	APPRD.						M.GHOSH	SALI	A.DEY	A.K.DAS (TEAM LEADER)

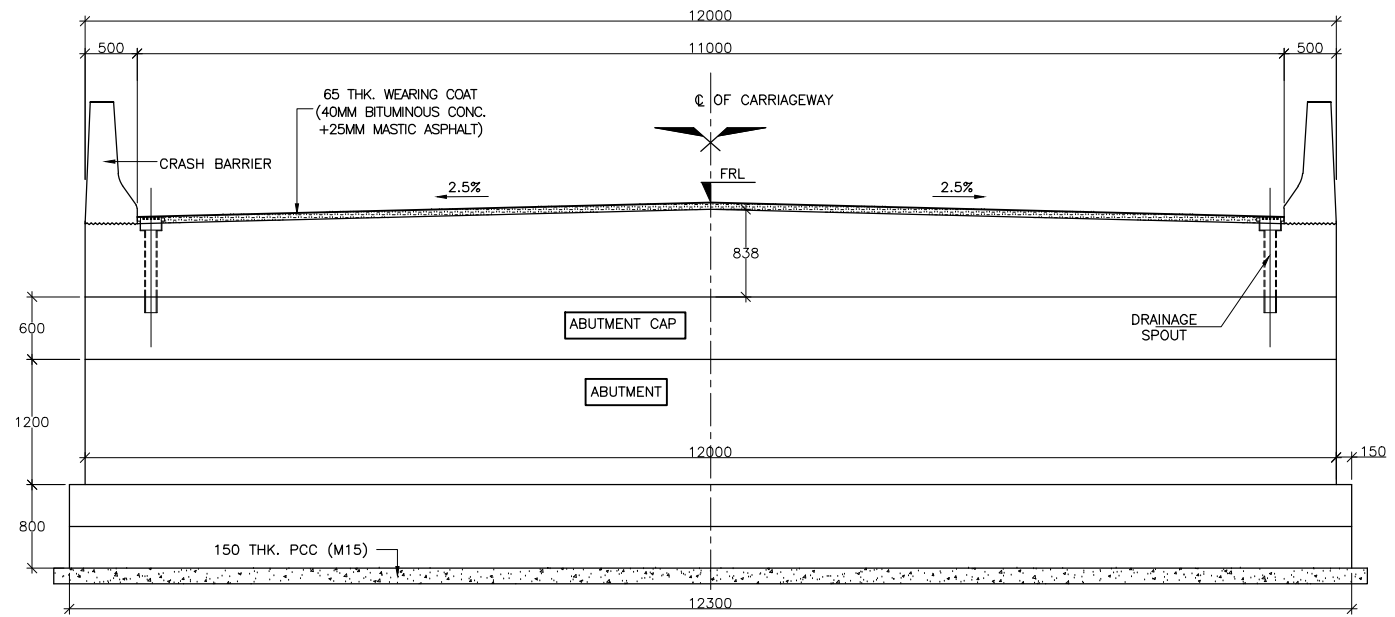


12. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DWG. NO.:
CET/BDG/2017/4047/NH-37/IMPHAL-JIRIBAM/FDPR/MN/(STR-43/1)/GA
(SHEET NO. 02)
CET/BDG/2017/4047/NH-37/IMPHAL-JIRIBAM/FDPR/MN/(STR-43/1)/MISC
(SHEET NO. 02)

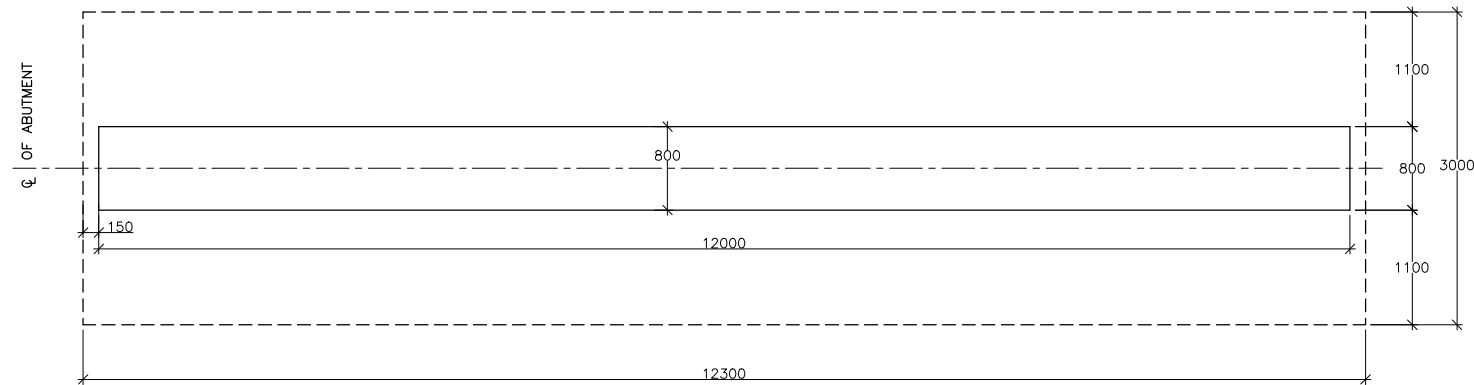
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R0	JAN,2021				REVISION MKD. - R2 (SHEET NO. 01 OF 02)								
MKD.	DATE	DESCRIPTION	CHKD.	APPRD.									
REVISIONS					DATE: FEBRUARY, 2021	PROJECT:	CONSULTANCY SERVICES FOR PREPARATION OF DETAILED PROJECT REPORT AND PROVIDING PRE-CONSTRUCTION SERVICES IN RESPECT OF 4 LANING WITH PAVED SHOULDER OF IMPHAL - JIRIBAM SECTION (LENGTH-220 KM) ON NH-37 (NH-53) FOR PROPOSED BRIDGE OVER RIVER IRANG IN THE STATE OF MANIPUR.		SUBMISSION TYPE : FINAL DETAILED PROJECT REPORT				



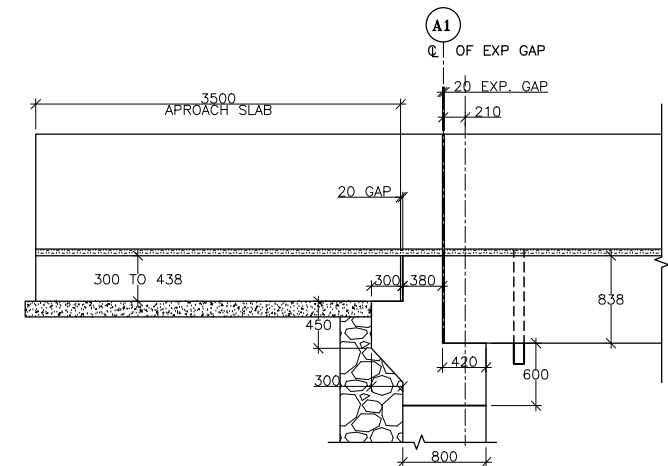
SECTIONAL ELEVATION
SCALE 1:50



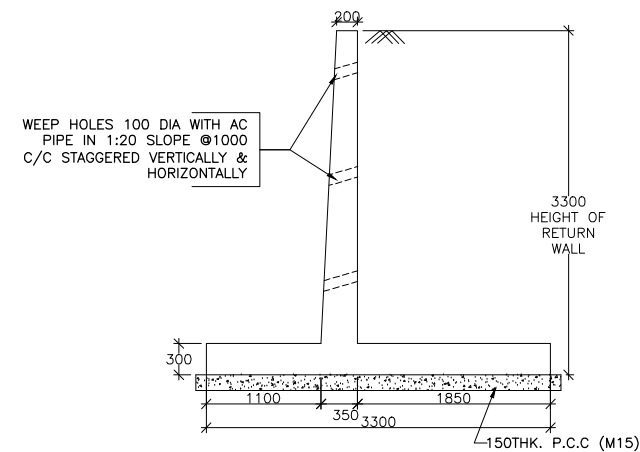
SECTION 1-1
SCALE 1:50



SECTION 2-2
SCALE 1:50



DETAIL-A
SCALE 1:50

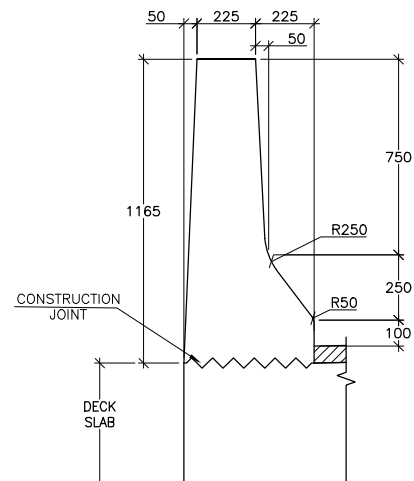


(DETAIL OF RETURN WALL)
(SCALE-1:50)

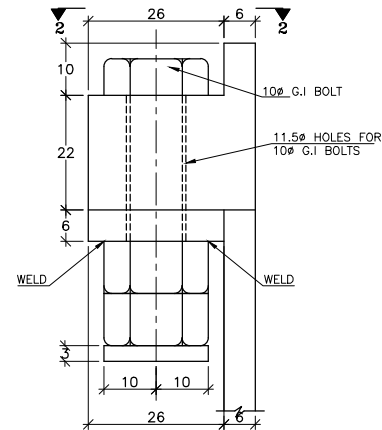
NOTES:-

- ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS ARE IN M . UNLESS OTHERWISE MENTIONED, ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
- THIS DRAWING IS PREPARED IN CONNECTION WITH :
CET/BDG/2017/4047/NH-37/IMPHAL-JIRIBAM/FDPR/MN/(STR-43/1)/GA (SHEET NO. 01)
CET/BDG/2017/4047/NH-37/IMPHAL-JIRIBAM/FDPR/MN/(STR-43/1)/MISC (SHEET NO. 01)

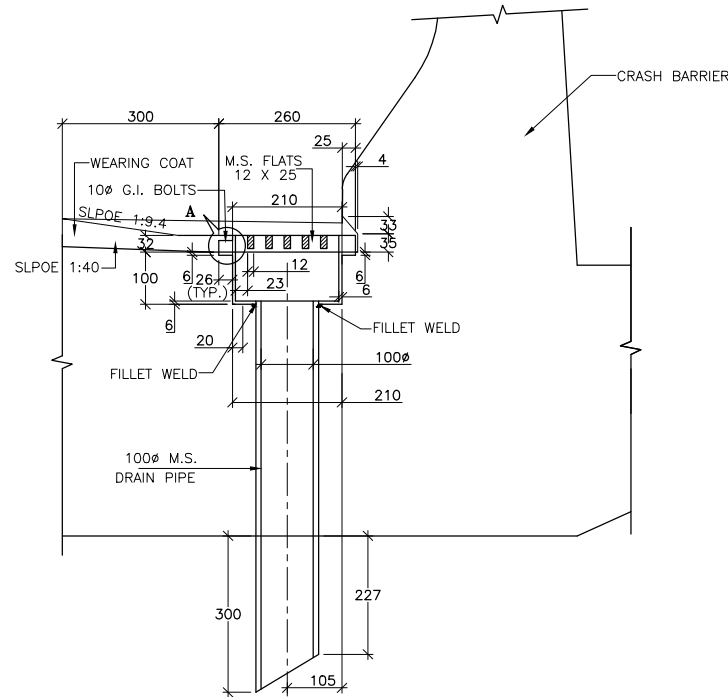
					SCALE: AS SHOWN		CLIENT: NATIONAL HIGHWAYS AND INFRASTRUCTURE DEVELOPMENT CORPORATION LTD. 4, PARLIAMENT STREET, NEW DELHI - 110001	TITLE : DETAIL OF ABUTMENT			CONSULTANT : CE TESTING COMPANY PVT. LTD. 124-A, N.S.C. Bose Road Kolkata - 700092.	DWG. NO. CET/BDG/2017/4047/NH-37/IMPHAL-JIRIBAM/FDPR/MN/(STR-43/1)/GA			
R0	JAN.2021				PKG NO. - NHIDCL/DPR/CT-IJ-TP/MANIPUR/2017			REVISION MKD. - R2 (SHEET NO. 02 OF 02)							
MKD.	DATE	DESCRIPTION	CHKD.	APPRD.	DATE: FEBRUARY, 2021			PROJECT: CONSULTANCY SERVICES FOR PREPARATION OF DETAILED PROJECT REPORT AND PROVIDING PRE-CONSTRUCTION SERVICES IN RESPECT OF 4 LANING WITH PAVED SHOULDER OF IMPHAL - JIRIBAM SECTION (LENGTH-220 KM) ON NH-37 (NH-53) FOR PROPOSED BRIDGE OVER RIVER IRANG IN THE STATE OF MANIPUR.	SUBMISSION TYPE : FINAL DETAILED PROJECT REPORT			DRAWN BY.  M.GHOSH	DESIGN BY.  S.ALI	CHECKED BY.  A.DEY	ISSUED BY.  A.K.DAS (TEAM LEADER)
REVISIONS															



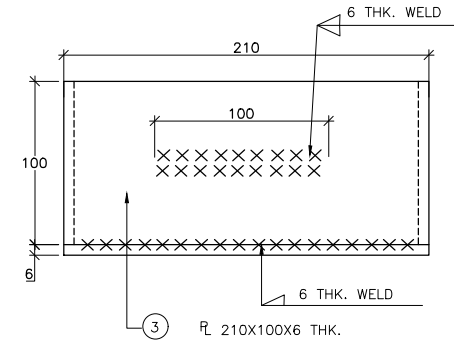
DETAILS OF CRASH BARRIER
(FOR GENERAL ARRANGEMENT)
SCALE-1:20



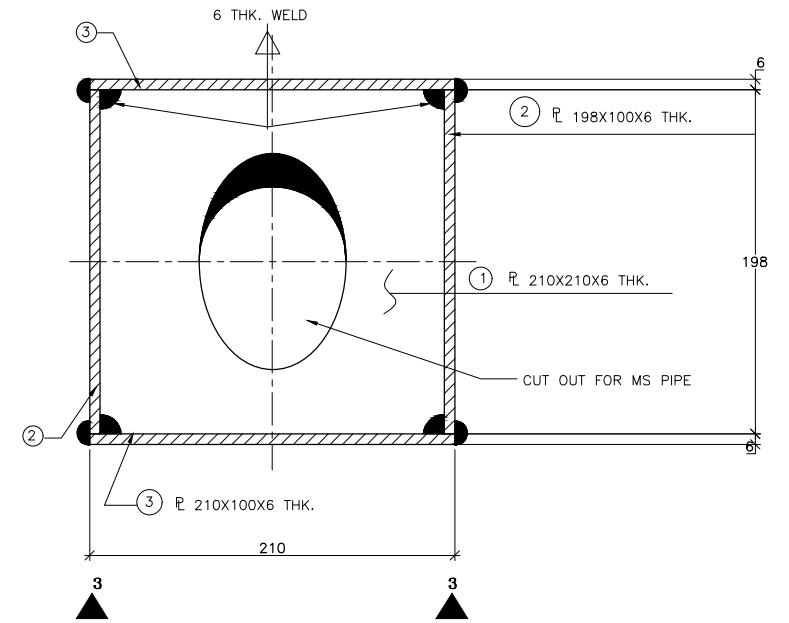
DETAIL - A
SCALE- 1:1



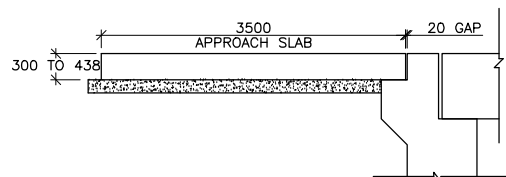
SECTION 1-1
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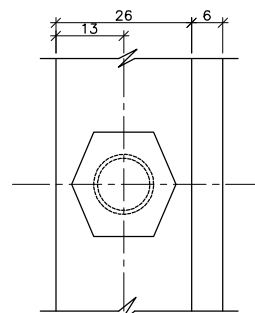
VIEW: 3-3
SCALE 1:3



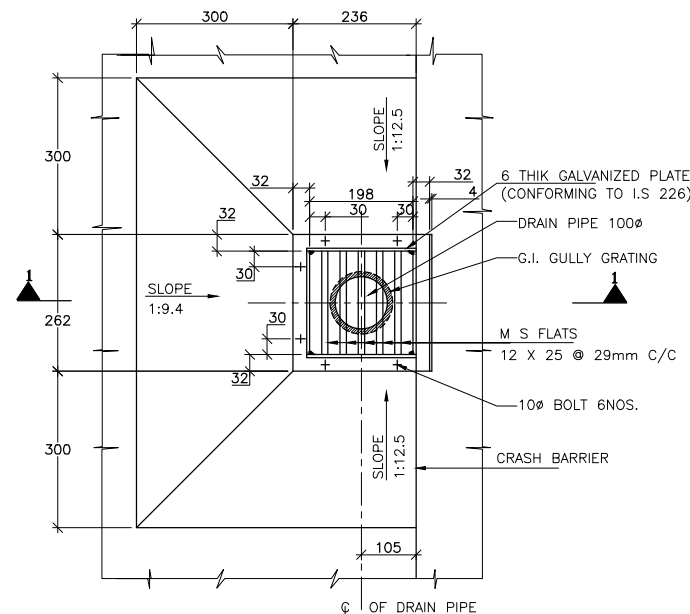
DETAIL OF DRAINAGE BOX
SCALE 1:3



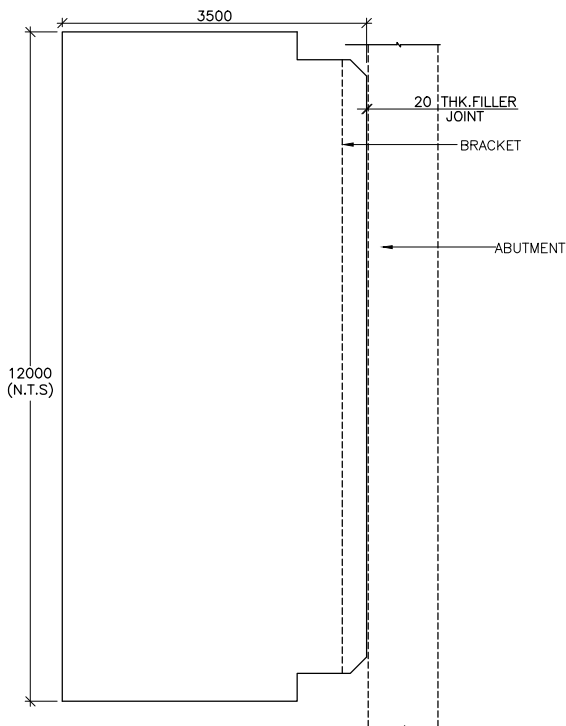
DETAILS OF APPROACH SLAB
SCALE 1:60



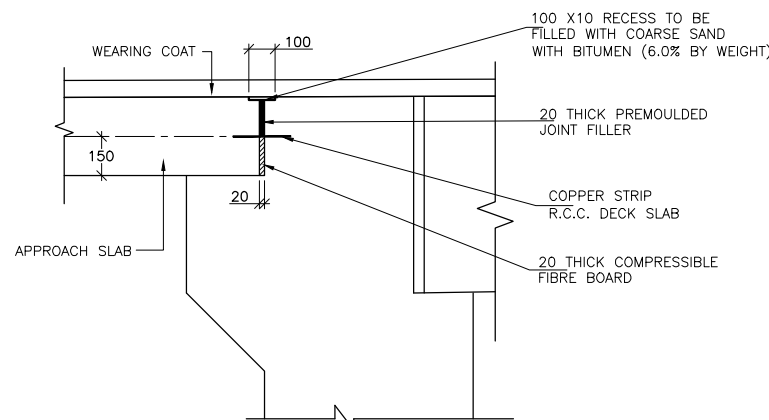
PLAN AT 2-2
SCALE- 1:1



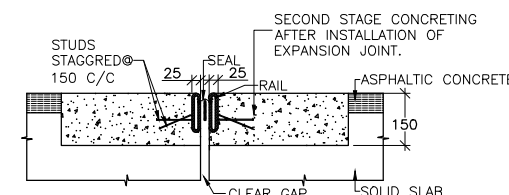
PLAN
DETAIL OF DRAINAGE
SPOUT AND COLLECTION PIT
SCALE- 1:10



PLAN OF APPROACH SLAB
SCALE 1:60



DETAILS OF FILLER JOINT
SCALE- 1:20



DETAIL OF STRIP TYPE EXPANSION JOINT
(40MM GAP)
SCALE 1:15

GENERAL NOTES :

1. ALL DIMENSIONS ARE IN mm. UNLESS OTHERWISE NOTED.

RAILING :

1. REINFORCEMENT OF RAILING POST SHOULD BE SUITABLY ANCHORED IN DECK SLAB.
2. CASTING OF POST SHALL BE DONE IN SINGLE POUR AFTER ACCURATELY POSITIONING THE PRECAST HANDRAIL.
3. RAILING SHALL BE CONSTRUCTED ONLY AFTER THE STRUCTURAL CONCRETE OF SUPERSTRUCTURE HAS HARDENED AND SHUTTERING IS RELEASED.
4. EXPANSION GAPS IN RAILING SHALL BE PROVIDED AT THE SAME LOCATIONS AS IN THE DECK SLAB.

NOTES FOR DRAINAGE SPOUT

1. ONLY FIGURED DIMENSIONS ARE TO BE FOLLOWED.
2. ALL STEEL WORK SHALL BE AS PER IS - 2062.
3. DRAINAGE SPOUT & COLLECTION PIT ASSEMBLY SHALL BE FABRICATED FROM MILD STEEL & AFTER FABRICATION, THE COMPLETE ASSEMBLY EXCEPT GRATING SHALL BE GIVEN A HOT DIPPED GALVANISED COATING.
4. THE REINFORCEMENT OF TOP SLAB OF INTEGRAL SLAB SHALL BE SUITABLY MODIFIED TO ACCOMMODATE THE DRAINAGE SPOUT.
5. THE DRAINAGE SPOUT SHALL BE GALVANIZED AFTER WELDING THE PLATES & FLATS.

REFERENCE DRAWINGS :

CET/BDG/2017/4047/NH-37/IMPAL-JIRIBAM/FDPR/MN/(STR-43/1)/GA
(SHEET NO. 01 TO 02)

					SCALE: AS SHOWN		CLIENT: NATIONAL HIGHWAYS AND INFRASTRUCTURE DEVELOPMENT CORPORATION LTD. 4, PARLIAMENT STREET, NEW DELHI - 110001	TITLE : DETAILS OF CRASH BARRIER, FILLER JOINT & DRAINAGE SPOUT PKG NO. - NHIDCL/DPR/CT-JJ-TP/MANIPUR/2017	 CONSULTANT : CE TESTING COMPANY PVT. LTD. 124-A, N.S.C. Bose Road Kolkata - 700092.	DWG. NO. CET/BDG/2017/4047/NH-37/IMPHAL-JIRIBAM/FDPR/MN/(STR-43/1)/MISC
R0	JAN.2021									REVISION MKD. - R2 (SHEET NO. 01 OF 01)
MKD.	DATE	DESCRIPTION	CHKD.	APPRD.	DATE: FEBRUARY, 2021	PROJECT: CONSULTANCY SERVICES FOR PREPARATION OF DETAILED PROJECT REPORT AND PROVIDING PRE-CONSTRUCTION SERVICES IN RESPECT OF 4 LANE WITH PAVED SHOULDER OF IMPHAL - JIRIBAM SECTION (LENGTH-220 KM) ON NH-37 (NH-53) FOR PROPOSED BRIDGE OVER RIVER IRANG IN THE STATE OF MANIPUR.	SUBMISSION TYPE : FINAL DETAILED PROJECT REPORT			
REVISIONS										