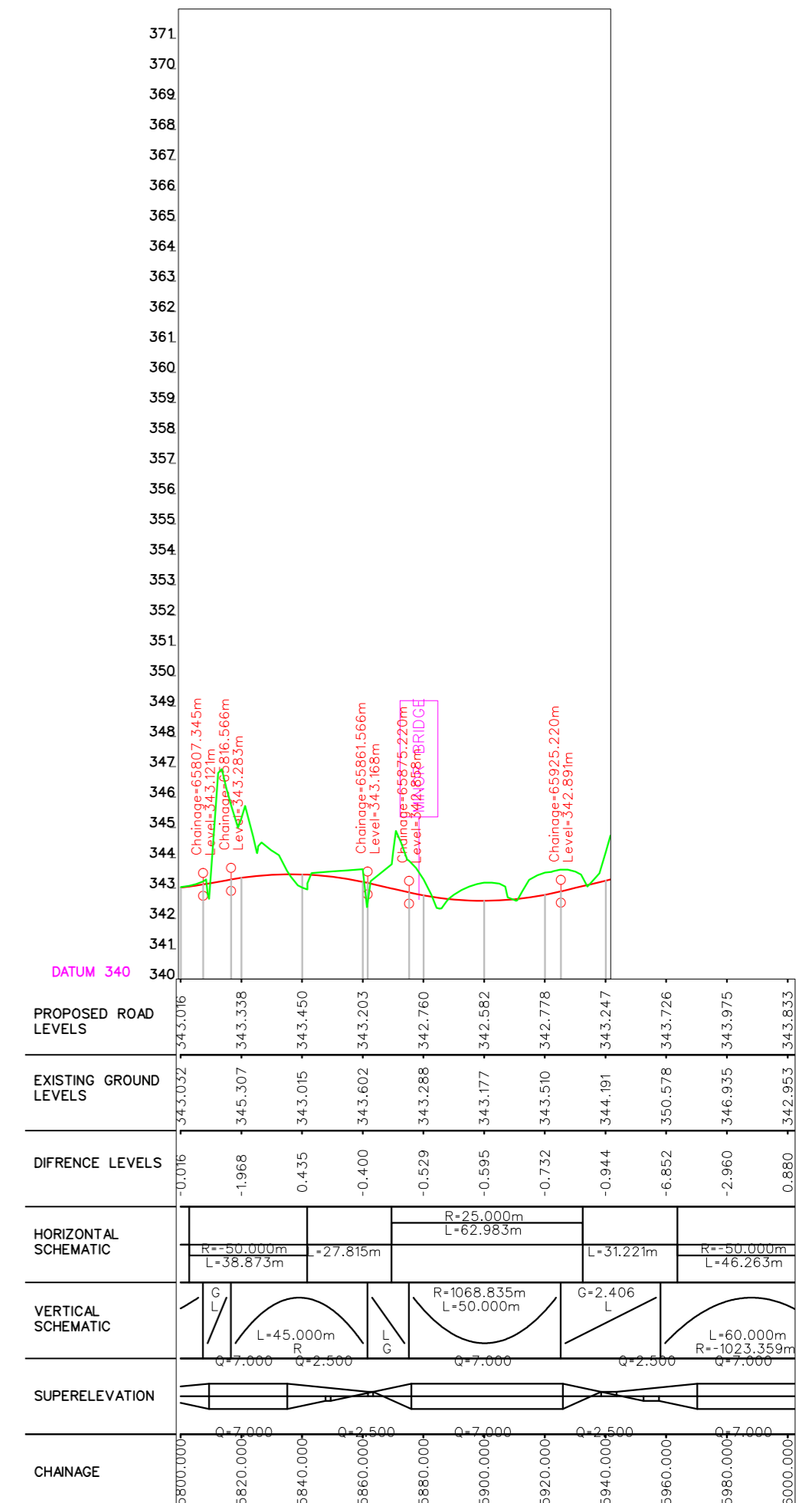


CURVE DETAILS	
No.	1
HIP	65+94.7.236
V (KMPH)	20
R (m)	25
Lc (m)	62.983
Ls (m)	0
Delta	144° 20' 45.1"
e (%)	
Ts (m)	77.740
Es (m)	56.661



Project:
 Consultancy Services for preparation of Feasibility Study and Detailed Project Report for Two laning of Akajan-Likabali-Bame Road from Existing Km 71.0 to Km 99.0 (Design Km 65.810 to Km 91.928 of Length: 26.118 km for execution on EPC Mode in the State of Arunachal Pradesh under Arunachal Pradesh package of SARDP-NE

Client:



सरकारभारत
 GOVERNMENT OF INDIA
 NATIONAL HIGHWAY INFRASTRUCTURE DEVELOPMENT CORPORATION LTD.

DPR Consultant:

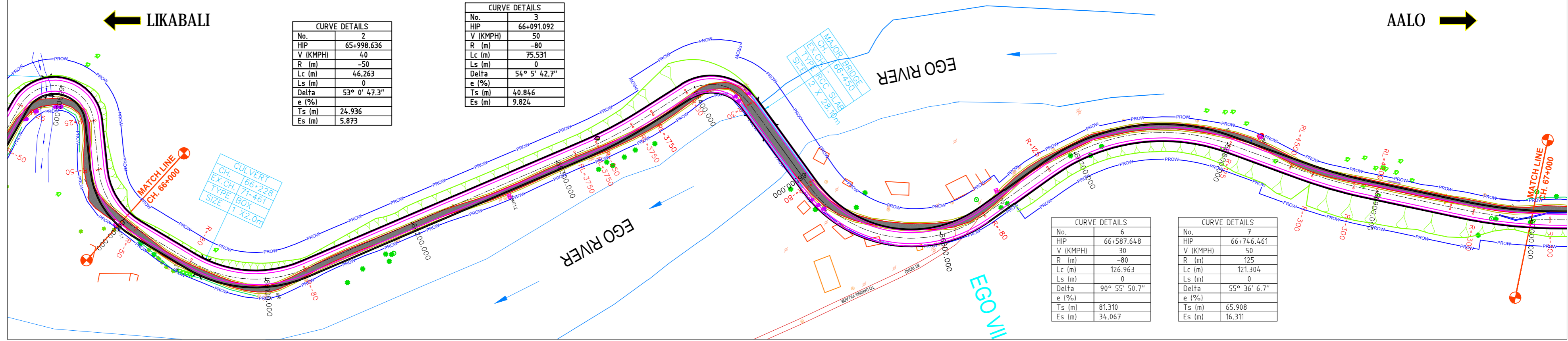


Theotech Project Services (P) Ltd.
 Land Surveyors, Consulting Engineers & Contractors
 135, Mohammad Pur, Near Bhikajji Cama Place
 New Delhi-110066
 www.theotechindia.com

Drawing Title:
FINAL DETAILED PROJECT REPORT
 PLAN & PROFILE KM 65+810 TO Km.66+000

Scale:
 -10mm 5 00 1cm 2cm 3cm 4cm 5cm
 10m 5 00 10m 20m 30m 40m 50m

Drawing No.:	TPSP/NHIDCL/P&P/ 65-97/SP- 01	Sheet No.:	1551
Scale:	HORIZONTAL : 2000 VERTICAL : 200	Date:	09-01-2017
Designed:	K.RAJNEES	Checked:	R.DHAR
Drawn:	HITESH	Approved:	I.S.MANOCHA
Revision:	NIL	Original Size:	A2

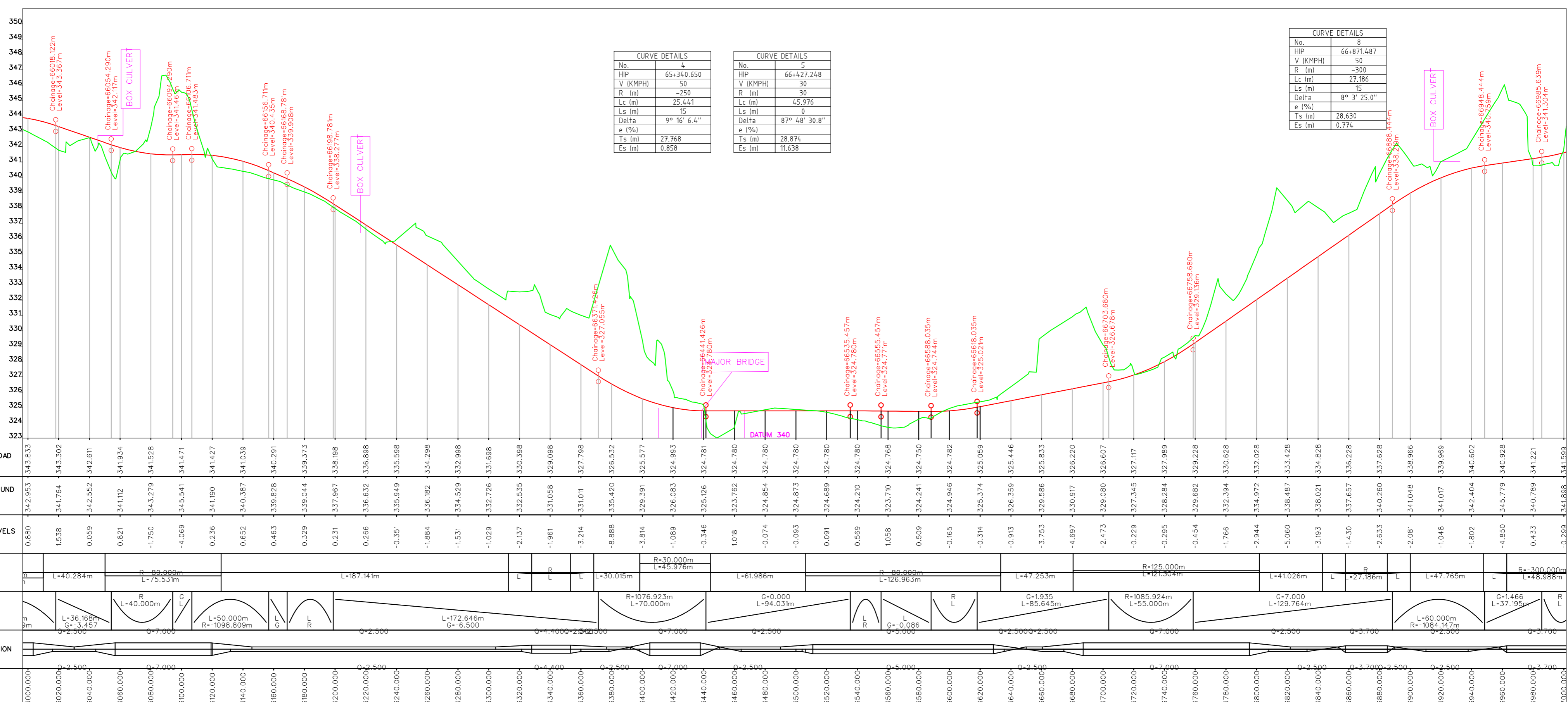


CURVE DETAILS	
No.	2
HIP	65+998.636
V (KMPH)	40
R (m)	50
Lc (m)	46.263
Ls (m)	0
Delta	53° 0' 47.3"
e (%)	0
Ts (m)	24.936
Es (m)	5.873

CURVE DETAILS	
No.	3
HIP	66+091.092
V (KMPH)	50
R (m)	-80
Lc (m)	75.531
Ls (m)	0
Delta	54° 5' 42.7"
e (%)	0
Ts (m)	40.846
Es (m)	9.824

CURVE DETAILS	
No.	6
HIP	66+587.648
V (KMPH)	30
R (m)	-80
Lc (m)	126.963
Ls (m)	0
Delta	90° 55' 50.7"
e (%)	0
Ts (m)	81.310
Es (m)	34.067

CURVE DETAILS	
No.	7
HIP	66+746.461
V (KMPH)	50
R (m)	125
Lc (m)	121.304
Ls (m)	0
Delta	55° 36' 6.7"
e (%)	0
Ts (m)	65.908
Es (m)	16.311



CURVE DETAILS	
No.	4
HIP	65+340.650
V (KMPH)	50
R (m)	-250
Lc (m)	25.441
Ls (m)	15
Delta	9° 16' 6.4"
e (%)	0
Ts (m)	27.768
Es (m)	0.858

CURVE DETAILS	
No.	5
HIP	66+427.248
V (KMPH)	30
R (m)	30
Lc (m)	45.976
Ls (m)	0
Delta	87° 48' 30.8"
e (%)	0
Ts (m)	28.874
Es (m)	11.638

CURVE DETAILS	
No.	8
HIP	66+871.487
V (KMPH)	50
R (m)	-300
Lc (m)	27.186
Ls (m)	15
Delta	8° 3' 25.0"
e (%)	0
Ts (m)	28.630
Es (m)	0.774

Project:
 Consultancy Services for preparation of Feasibility Study and Detailed Project Report for Two laning of Akajan-Likabali-Bame Road from Existing Km 71.0 to Km 99.0 (Design Km 65.810 to Km 91.928 of Length: 26.118 km for execution on EPC Mode in the State of Arunachal Pradesh under Arunachal Pradesh package of SARDP-NE

Client:

GOVERNMENT OF INDIA
NATIONAL HIGHWAY INFRASTRUCTURE DEVELOPMENT CORPORATION LTD.

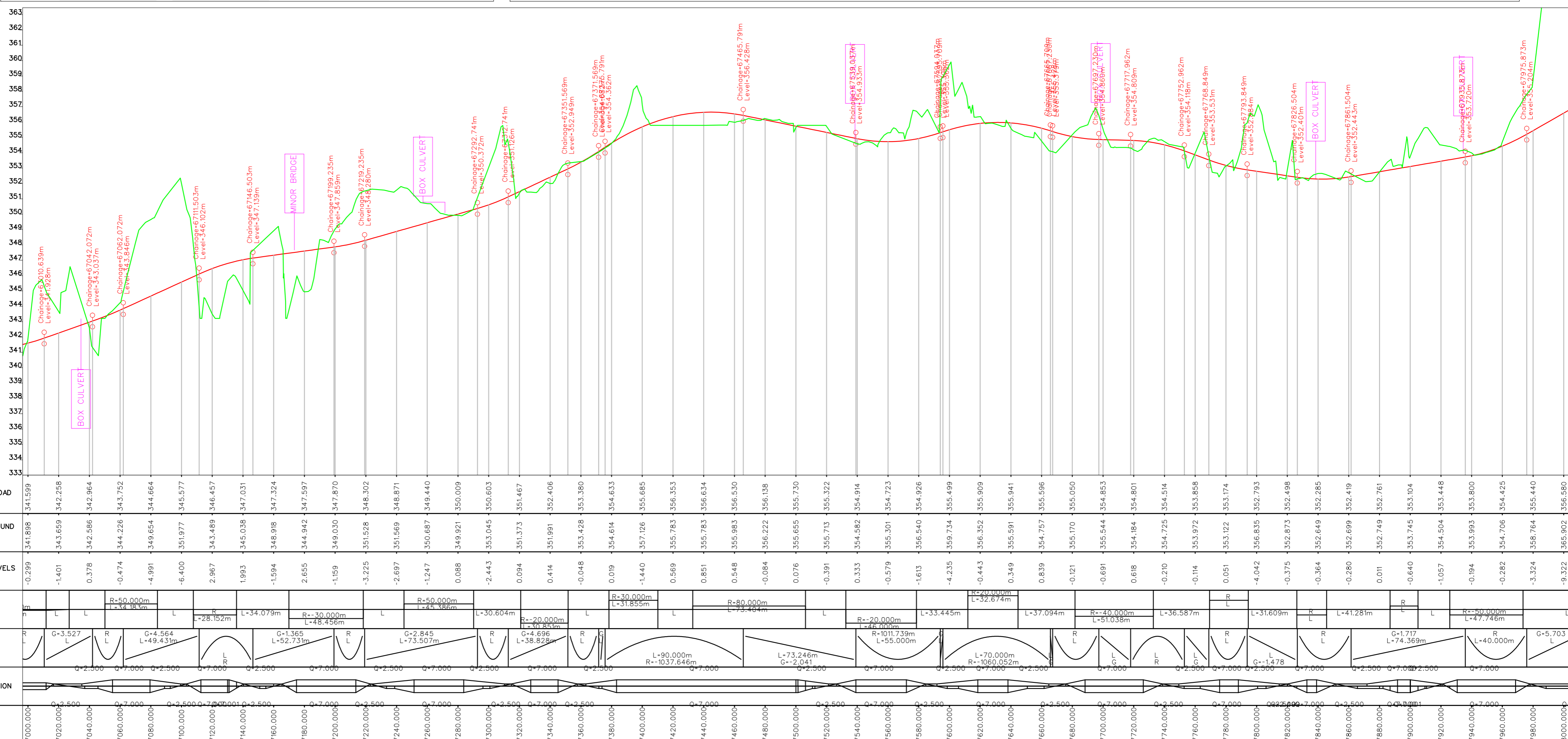
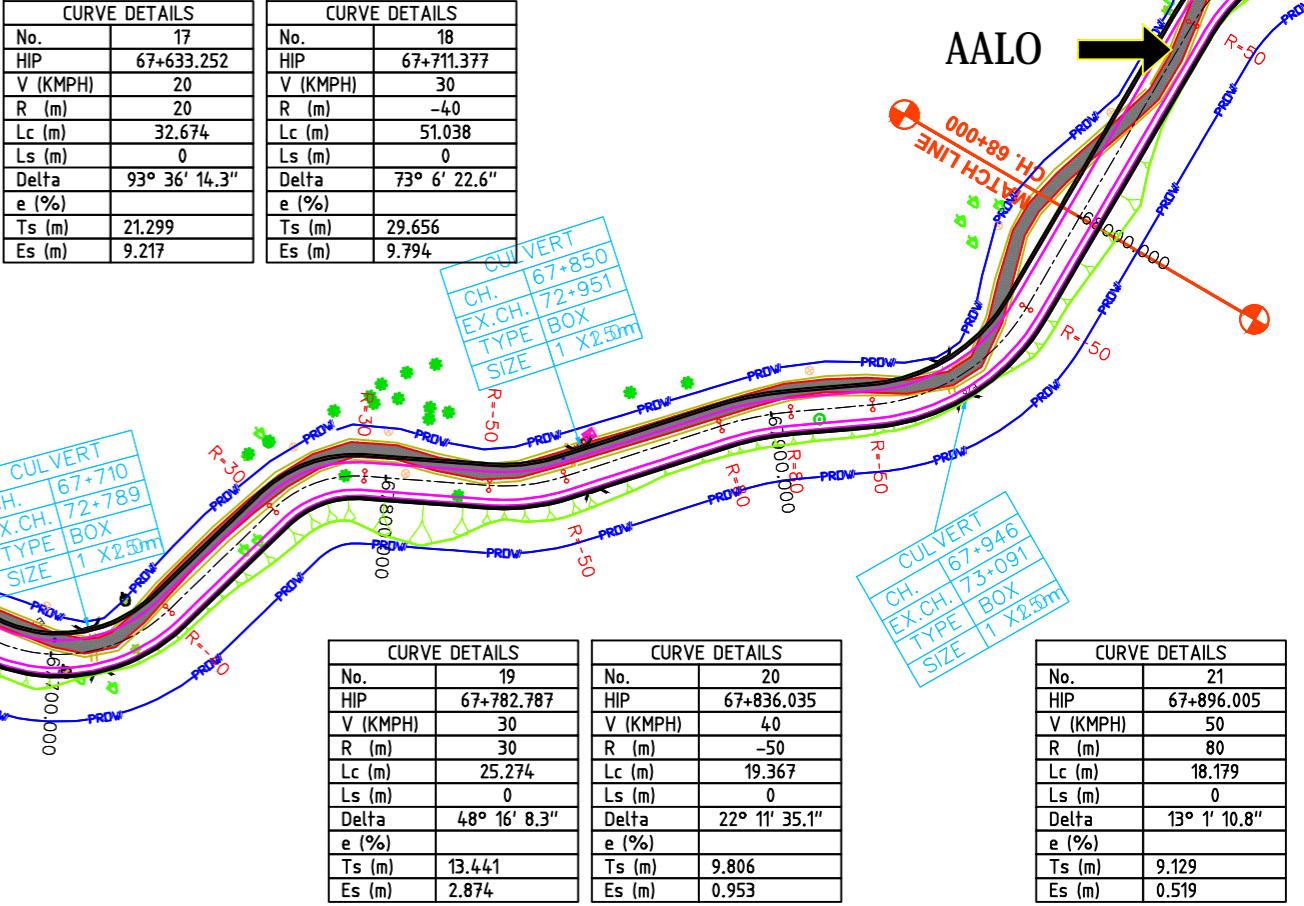
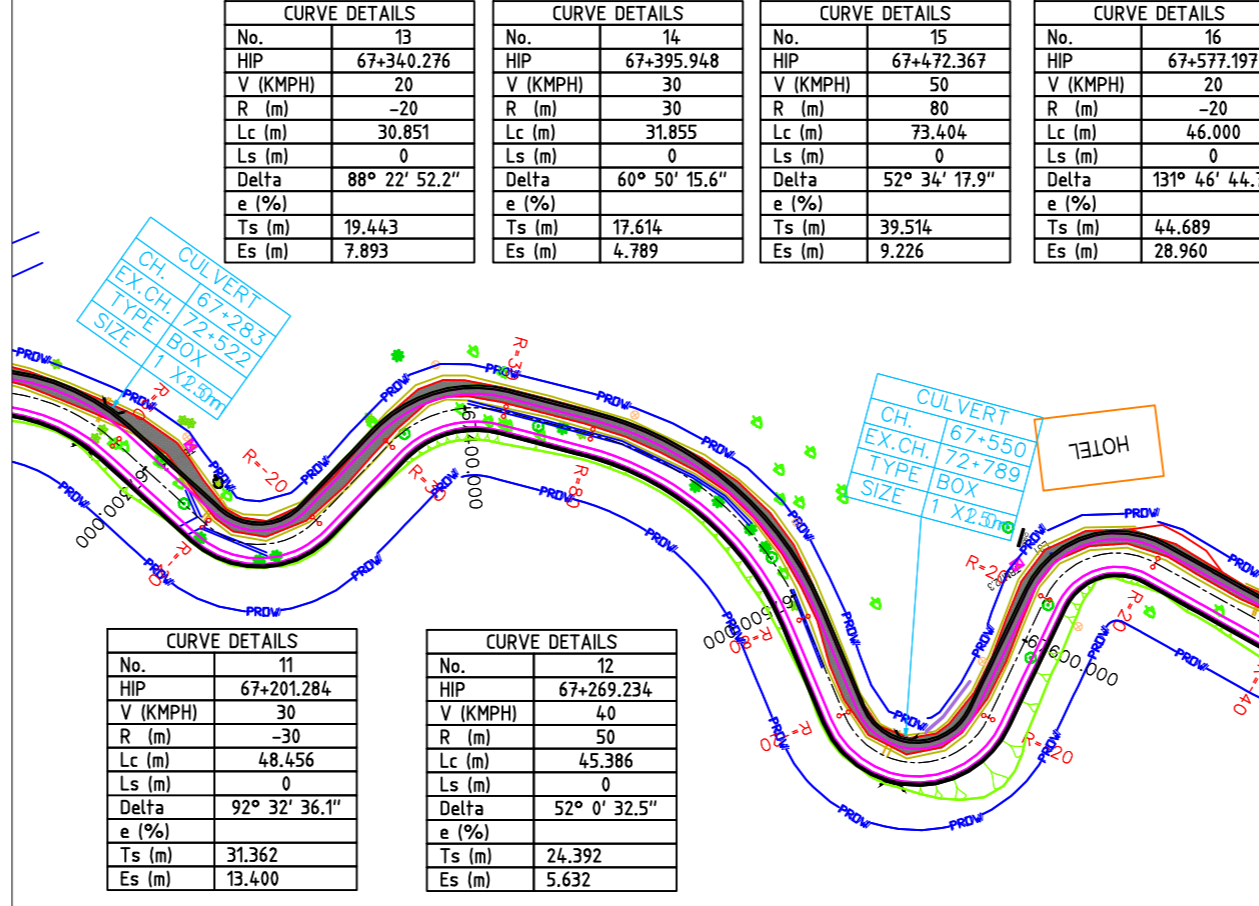
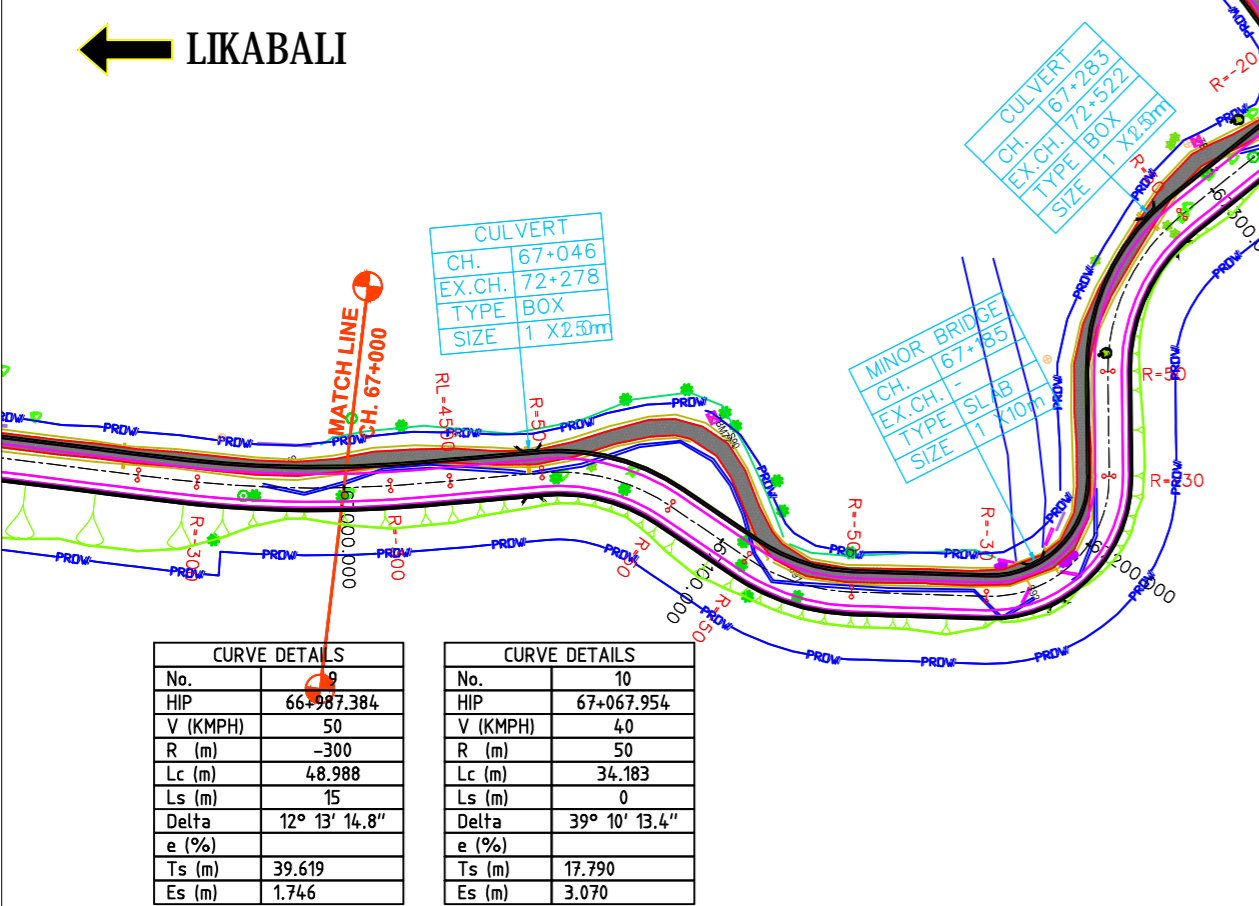
DPR Consultant:

Theotech Project Services (P) Ltd.
 Land Surveyors, Consulting Engineers & Contractors
 135, Mohammad Pur, Near Bhikaji Cama Place
 New Delhi-110066

Drawing Title:
FINAL DETAILED PROJECT REPORT
PLAN & PROFILE KM 66+000 TO Km.67+000

Scale:
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 10m 5 00 10m 20m 30m 40m 50m

Drawing No.:	TPSP/NHIDCL/P&P/65-97/SP-02	Sheet No.:	1551
Scale:	HORIZONTAL : 2000 VERTICAL : 200	Date:	09-01-2017
Designed:	K.RAJNEES	Checked:	R.DHAR
Drawn:	HITESH	Approved:	I.S.MANOCHA



Project:
Consultancy Services for preparation of Feasibility Study and Detailed Project Report for Two laning of Akajan-Likabali-Bame Road from Existing Km 71.0 to Km 99.0 (Design Km 65.810 to Km 91.928 of Length: 26.118 km for execution on EPC Mode in the State of Arunachal Pradesh under Arunachal Pradesh package of SARDP-NE

Client:

GOVERNMENT OF INDIA
NATIONAL HIGHWAY INFRASTRUCTURE DEVELOPMENT CORPORATION LTD.

DPR Consultant:

Theotech Project Services (P) Ltd.
Land Surveyors, Consulting Engineers & Contractors
135, Mohammad Pur, Near Bhikaji Cama Place
New Delhi-110066

Drawing Title:
FINAL DETAILED PROJECT REPORT
PLAN & PROFILE KM 67+000 TO Km.68+000

Scale:
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10m 5 00 10m 20m 30m 40m 50m

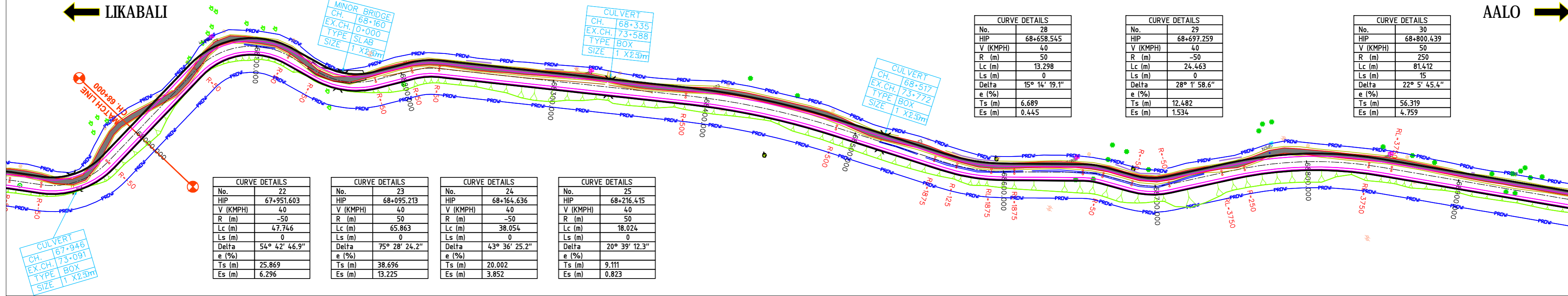
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Sheet No.:
Project No.: 1551

Scale: HORIZONTAL : 2000
VERTICAL : 200
Date: 09-01-2017
Revision: NIL
Original Size: A2

Designed: K.RAJNEES
Drawn: HITESH
Checked: R.DHAR
Approved: I.S.MANOCHA

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CURVE DETAILS	
No.	22
HIP	67+951.603
V (KMPH)	40
R (m)	50
Lc (m)	47.746
Ls (m)	0
Delta	54° 42' 46.9"
e (%)	
Ts (m)	25.869
Es (m)	6.296

CURVE DETAILS	
No.	23
HIP	68+955.213
V (KMPH)	40
R (m)	50
Lc (m)	65.863
Ls (m)	0
Delta	75° 28' 24.2"
e (%)	
Ts (m)	38.696
Es (m)	13.225

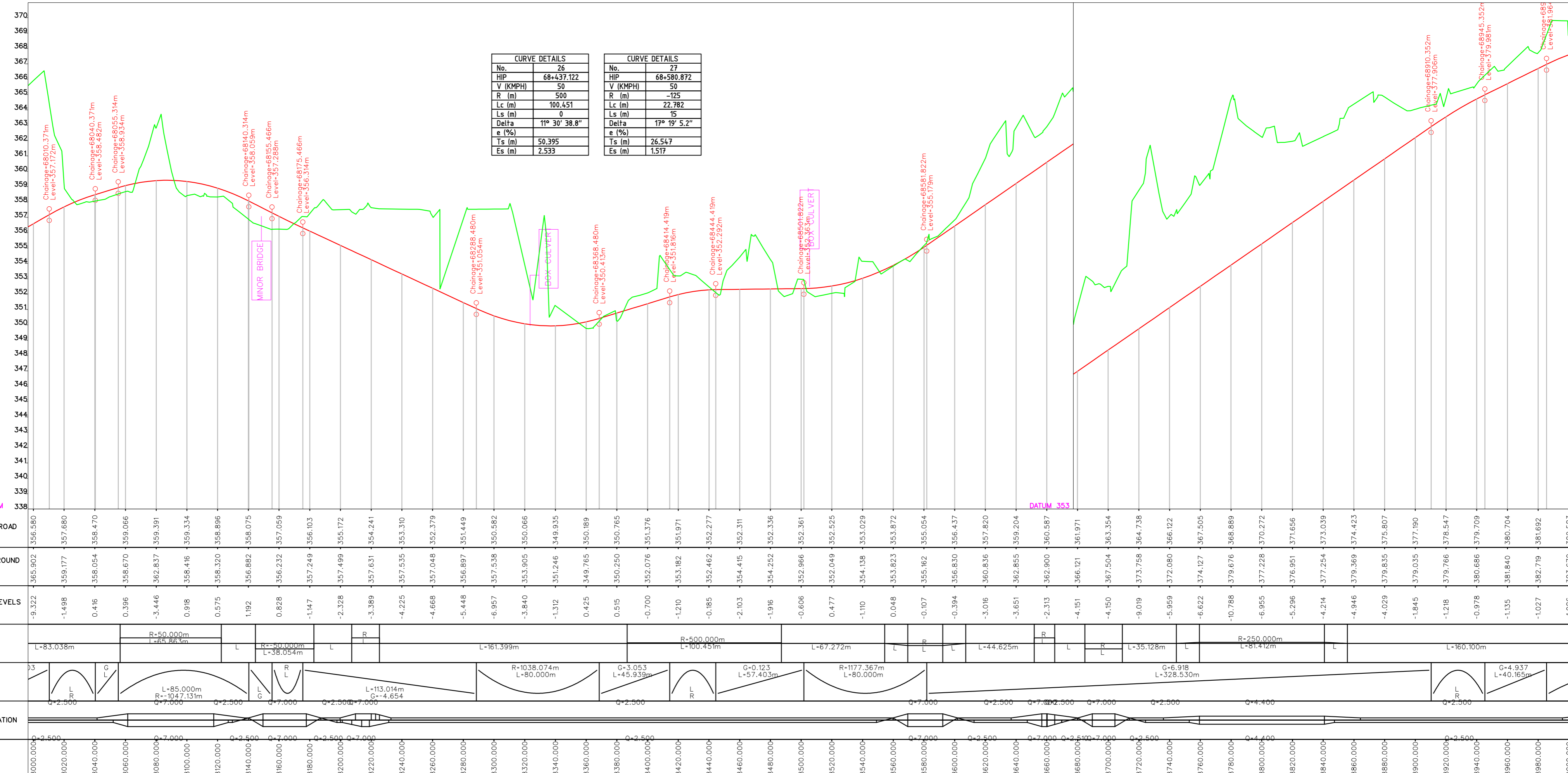
CURVE DETAILS	
No.	24
HIP	68+164.636
V (KMPH)	40
R (m)	50
Lc (m)	38.054
Ls (m)	0
Delta	43° 36' 25.2"
e (%)	
Ts (m)	20.002
Es (m)	3.852

CURVE DETAILS	
No.	25
HIP	68+216.415
V (KMPH)	40
R (m)	50
Lc (m)	18.024
Ls (m)	0
Delta	20° 39' 12.3"
e (%)	
Ts (m)	9.111
Es (m)	0.823

CURVE DETAILS	
No.	28
HIP	68+658.545
V (KMPH)	40
R (m)	50
Lc (m)	13.298
Ls (m)	0
Delta	15° 14' 19.1"
e (%)	
Ts (m)	6.689
Es (m)	0.445

CURVE DETAILS	
No.	29
HIP	68+697.259
V (KMPH)	40
R (m)	50
Lc (m)	24.463
Ls (m)	0
Delta	28° 1' 58.6"
e (%)	
Ts (m)	12.482
Es (m)	1.534

CURVE DETAILS	
No.	30
HIP	68+800.439
V (KMPH)	50
R (m)	250
Lc (m)	81.412
Ls (m)	15
Delta	22° 5' 45.4"
e (%)	
Ts (m)	56.319
Es (m)	4.759



CURVE DETAILS	
No.	26
HIP	68+437.122
V (KMPH)	50
R (m)	500
Lc (m)	100.451
Ls (m)	0
Delta	17° 30' 38.8"
e (%)	
Ts (m)	50.395
Es (m)	2.533

CURVE DETAILS	
No.	27
HIP	68+580.872
V (KMPH)	50
R (m)	-125
Lc (m)	22.782
Ls (m)	15
Delta	17° 19' 5.2"
e (%)	
Ts (m)	26.547
Es (m)	1.517

Project:
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Client:

 GOVERNMENT OF INDIA
 NATIONAL HIGHWAY INFRASTRUCTURE DEVELOPMENT CORPORATION LTD.

DPR Consultant:

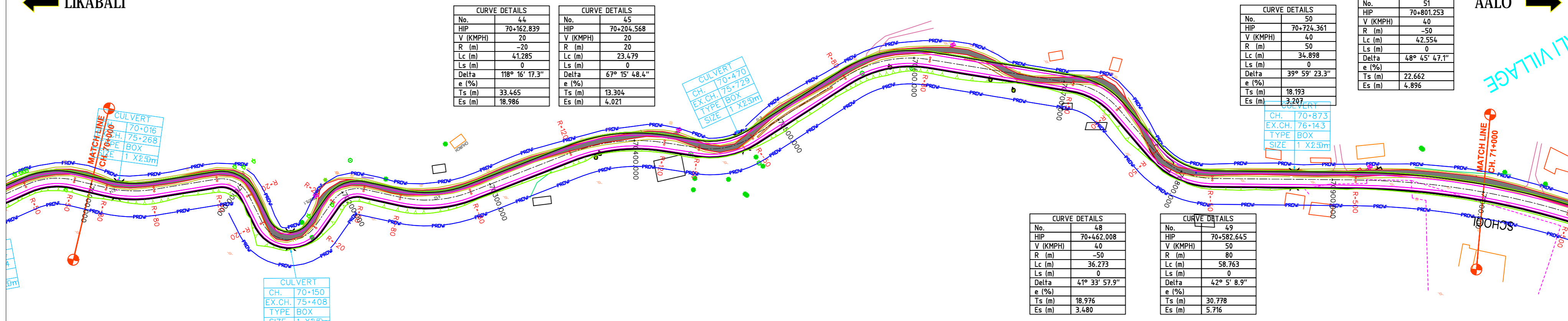
Theotech Project Services (P) Ltd.
 Land Surveyors, Consulting Engineers & Contractors
 135, Mohammad Pur, Near Bhikaji Cama Place
 New Delhi-110066

Drawing Title:
FINAL DETAILED PROJECT REPORT
PLAN & PROFILE KM 68+000 TO Km.69+000
 Scale:
 -10mm 5 00 1cm 2cm 3cm 4cm 5cm
 10m 5 00 10m 20m 30m 40m 50m

Drawing No.: TPSP/NHIDCL/P&P/65-97/SP-04	Sheet No.:	Project No.:
Scale: HORIZONTAL : 2000 VERTICAL : 200	Date: 09-01-2017	Revision: NIL
Designed: K.RAJNEES	Drawn: HITESH	Checked: R.DHAR
		Original Size: A2
		Approved: I.S.MANOCHA

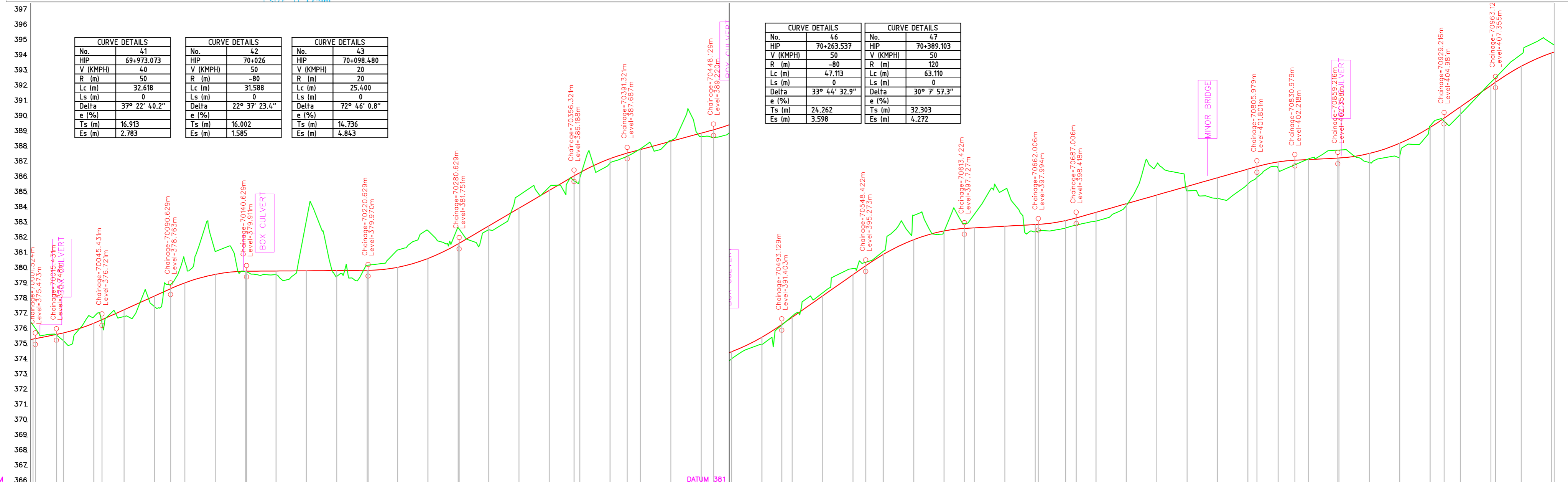
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CURVE DETAILS		CURVE DETAILS	
No.	44	No.	45
HIP	70+162.839	HIP	70+204.568
V (KMPH)	20	V (KMPH)	20
R (m)	-20	R (m)	20
Lc (m)	41.285	Lc (m)	23.479
Ls (m)	0	Ls (m)	0
Delta	118° 16' 17.3"	Delta	67° 15' 48.4"
e (%)	33.465	e (%)	13.304
Ts (m)	18.986	Ts (m)	4.021

CURVE DETAILS		CURVE DETAILS	
No.	50	No.	51
HIP	70+724.361	HIP	70+801.253
V (KMPH)	40	V (KMPH)	40
R (m)	-50	R (m)	-50
Lc (m)	42.554	Lc (m)	42.554
Ls (m)	0	Ls (m)	0
Delta	48° 45' 47.1"	Delta	48° 45' 47.1"
e (%)	22.662	e (%)	22.662
Ts (m)	3.207	Ts (m)	4.896



CURVE DETAILS		CURVE DETAILS	
No.	46	No.	47
HIP	70+263.537	HIP	70+389.103
V (KMPH)	50	V (KMPH)	50
R (m)	-80	R (m)	120
Lc (m)	47.113	Lc (m)	63.110
Ls (m)	0	Ls (m)	0
Delta	33° 44' 32.9"	Delta	30° 7' 57.3"
e (%)	24.262	e (%)	32.303
Ts (m)	3.598	Ts (m)	4.272


CURVE DETAILS		CURVE DETAILS		CURVE DETAILS	
No.	41	No.	42	No.	43
HIP	69+973.073	HIP	70+026	HIP	70+098.480
V (KMPH)	40	V (KMPH)	50	V (KMPH)	20
R (m)	50	R (m)	-80	R (m)	20
Lc (m)	32.618	Lc (m)	31.588	Lc (m)	25.400
Ls (m)	0	Ls (m)	0	Ls (m)	0
Delta	37° 22' 40.2"	Delta	22° 37' 23.4"	Delta	72° 46' 0.8"
e (%)	16.913	e (%)	16.002	e (%)	14.736
Ts (m)	2.783	Ts (m)	1.585	Ts (m)	4.843

PROPOSED ROAD LEVELS	EXISTING GROUND LEVELS	DIFRENCE LEVELS	HORIZONTAL SCHEMATIC	VERTICAL SCHEMATIC	SUPERELEVATION	CHAINAGE
375.444	376.357	-0.913	L	G	0.500	70000.000
375.847	375.350	0.496	L	R	0.500	70020.000
376.488	376.906	-0.417	L	G	0.500	70040.000
377.379	376.934	0.445	L	G	0.500	70060.000
378.283	377.577	0.705	L	G	0.500	70080.000
379.147	380.540	-1.392	L	G	0.500	70100.000
379.707	381.210	-1.504	L	G	0.500	70120.000
379.910	379.873	0.038	L	G	0.500	70140.000
379.925	379.685	0.241	L	G	0.500	70160.000
379.940	383.253	-3.312	L	G	0.500	70180.000
379.955	379.564	0.391	L	G	0.500	70200.000
379.970	380.301	-0.331	L	G	0.500	70220.000
380.166	381.307	-1.141	L	G	0.500	70240.000
380.747	382.589	-1.842	L	G	0.500	70260.000
381.715	382.769	-1.054	L	G	0.500	70280.000
382.887	382.637	0.250	L	G	0.500	70300.000
384.059	384.904	-0.845	L	G	0.500	70320.000
385.232	385.460	-0.229	L	G	0.500	70340.000
386.398	386.030	0.368	L	G	0.500	70360.000
387.323	387.029	0.294	L	G	0.500	70380.000
387.921	387.970	-0.048	L	G	0.500	70400.000
388.461	388.525	-0.064	L	G	0.500	70420.000
389.001	388.773	0.228	L	G	0.500	70440.000
389.608	389.143	0.465	L	G	0.500	70460.000
390.566	390.102	0.464	L	G	0.500	70480.000
391.884	391.955	-0.071	L	G	0.500	70500.000
393.284	393.486	-0.203	L	G	0.500	70520.000
394.684	395.081	-0.398	L	G	0.500	70540.000
396.017	396.226	-0.209	L	G	0.500	70560.000
396.989	398.582	-1.592	L	G	0.500	70580.000
397.564	397.534	0.030	L	G	0.500	70600.000
397.763	398.675	-0.912	L	G	0.500	70620.000
397.873	400.297	-2.423	L	G	0.500	70640.000
397.983	397.512	0.471	L	G	0.500	70660.000
398.242	397.761	0.481	L	G	0.500	70680.000
398.788	398.215	0.573	L	G	0.500	70700.000
399.356	399.220	0.137	L	G	0.500	70720.000
399.925	401.932	-2.007	L	G	0.500	70740.000
400.494	400.202	0.292	L	G	0.500	70760.000
401.062	399.695	1.368	L	G	0.500	70780.000
401.631	400.654	0.976	L	G	0.500	70800.000
402.107	401.660	0.448	L	G	0.500	70820.000
402.263	402.308	-0.046	L	G	0.500	70840.000
402.362	402.885	-0.523	L	G	0.500	70860.000
402.661	402.064	0.598	L	G	0.500	70880.000
403.333	402.478	0.855	L	G	0.500	70900.000
404.375	404.480	-0.105	L	G	0.500	70920.000
405.736	405.242	0.494	L	G	0.500	70940.000
407.156	407.348	-0.212	L	G	0.500	70960.000
408.400	409.186	-0.787	L	G	0.500	70980.000
409.284	409.905	-0.621	L	G	0.500	71000.000

Project: Consultancy Services for preparation of Feasibility Study and Detailed Project Report for Two laning of Akajan-Likabali-Bame Road from Existing Km 71.0 to Km 99.0 (Design Km 65.810 to Km 91.928 of Length: 26.118 km for execution on EPC Mode in the State of Arunachal Pradesh under Arunachal Pradesh package of SARDP-NE

Client:  **GOVERNMENT OF INDIA**
NATIONAL HIGHWAY INFRASTRUCTURE DEVELOPMENT CORPORATION LTD.

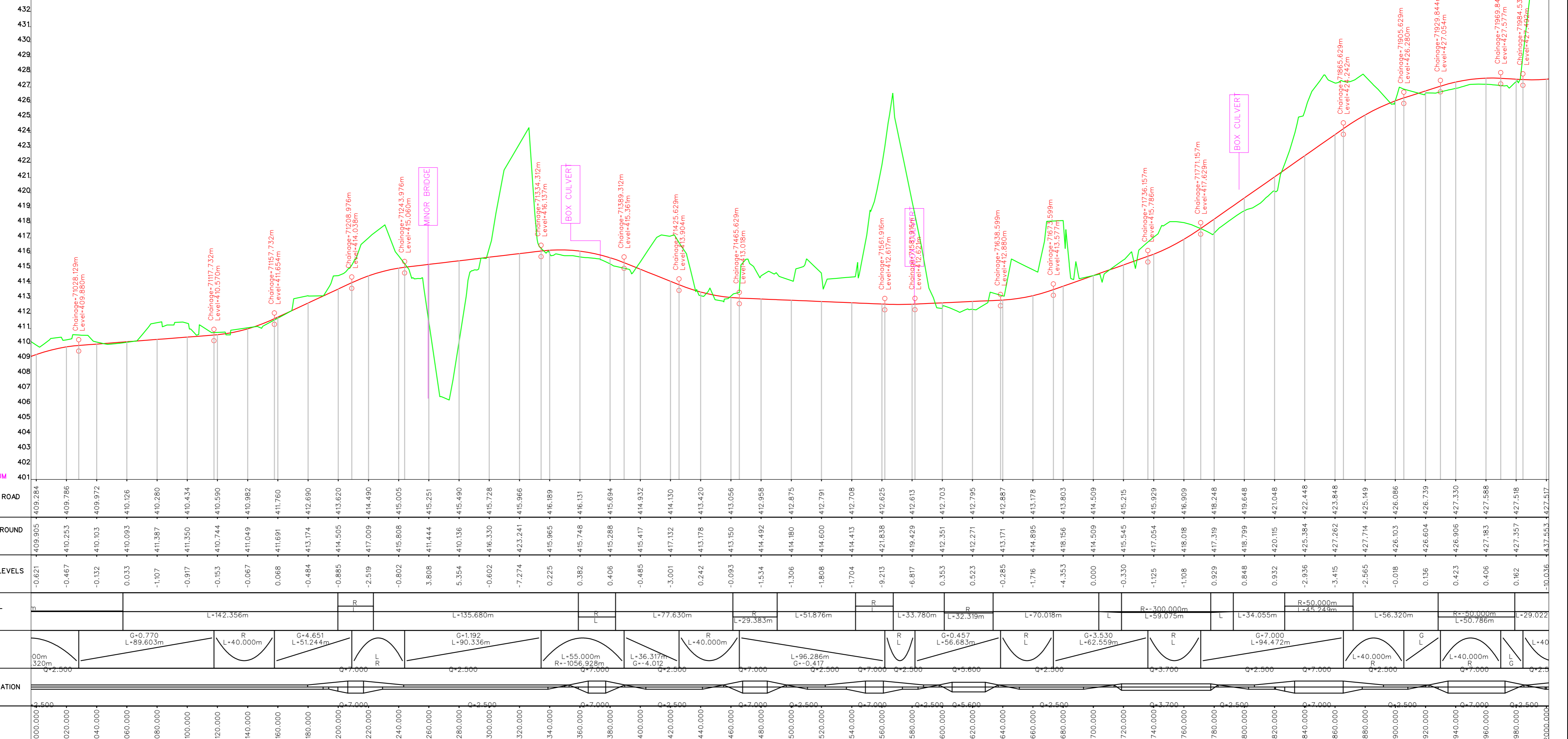
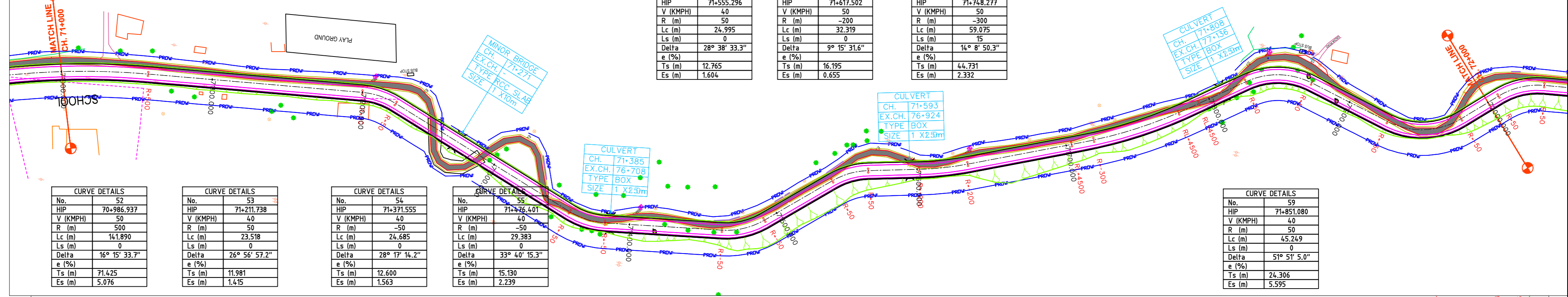
DPR Consultant:  **Theotech Project Services (P) Ltd.**
 Land Surveyors, Consulting Engineers & Contractors
 135, Mohammad Pur, Near Bhikaji Cama Place
 New Delhi-110066

Drawing Title: **FINAL DETAILED PROJECT REPORT**
PLAN & PROFILE KM 70+000 TO Km.71+000
 Scale: 

Drawing No.: TPSP/NHIDCL/P&P/65-97/SP-06	Sheet No.:	Project No.:
Scale: HORIZONTAL : 2000 VERTICAL : 200	Date: 09-01-2017	Revision: NIL
Designed: K.RAJNEES	Drawn: HITESH	Checked: R.DHAR
		Approved: I.S.MANOCHA

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Project:
 Consultancy Services for preparation of Feasibility Study and Detailed Project Report for Two laning of Akajan-Likabali-Bame Road from Existing Km 71.0 to Km 99.0 (Design Km 65.810 to Km 91.928 of Length: 26.118 km for execution on EPC Mode in the State of Arunachal Pradesh under Arunachal Pradesh package of SARDP-NE

Client:

 GOVERNMENT OF INDIA
 NATIONAL HIGHWAY INFRASTRUCTURE DEVELOPMENT CORPORATION LTD.

DPR Consultant:

Theotech Project Services (P) Ltd.
 Land Surveyors, Consulting Engineers & Contractors
 135, Mohammad Pur, Near Bhikaji Cama Place
 New Delhi-110066

Drawing Title:
FINAL DETAILED PROJECT REPORT
PLAN & PROFILE KM 71+000 TO Km.72+000
 Scale:
 -10mm 5 00 1cm 2cm 3cm 4cm 5 cm
 10m 5 00 10m 20m 30m 40m 50m

Drawing No.:	TPSP/NHIDCL/P&P/65-97/SP-07	Sheet No.:	1551
Scale:	HORIZONTAL : 2000 VERTICAL : 200	Date:	09-01-2017
Designed:	K.RAJNEES	Checked:	R.DHAR
Drawn:	HITESH	Approved:	I.S.MANOCHA

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CURVE DETAILS	
No.	60
HIP	71+956
V (KMPH)	40
R (m)	-50
Lc (m)	50.786
Ls (m)	0
Delta	58° 11' 47.9"
e (%)	
Ts (m)	27.828
Es (m)	7.222

CURVE DETAILS	
No.	61
HIP	72+024.526
V (KMPH)	40
R (m)	50
Lc (m)	31.649
Ls (m)	0
Delta	36° 15' 59.9"
e (%)	
Ts (m)	16.375
Es (m)	2.613

CURVE DETAILS	
No.	62
HIP	72+096.538
V (KMPH)	40
R (m)	-50
Lc (m)	30.404
Ls (m)	0
Delta	34° 50' 25.2"
e (%)	
Ts (m)	15.688
Es (m)	2.403

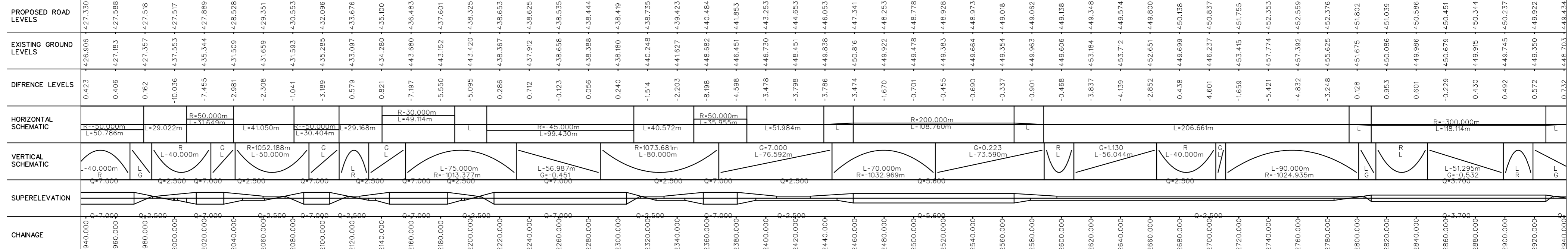
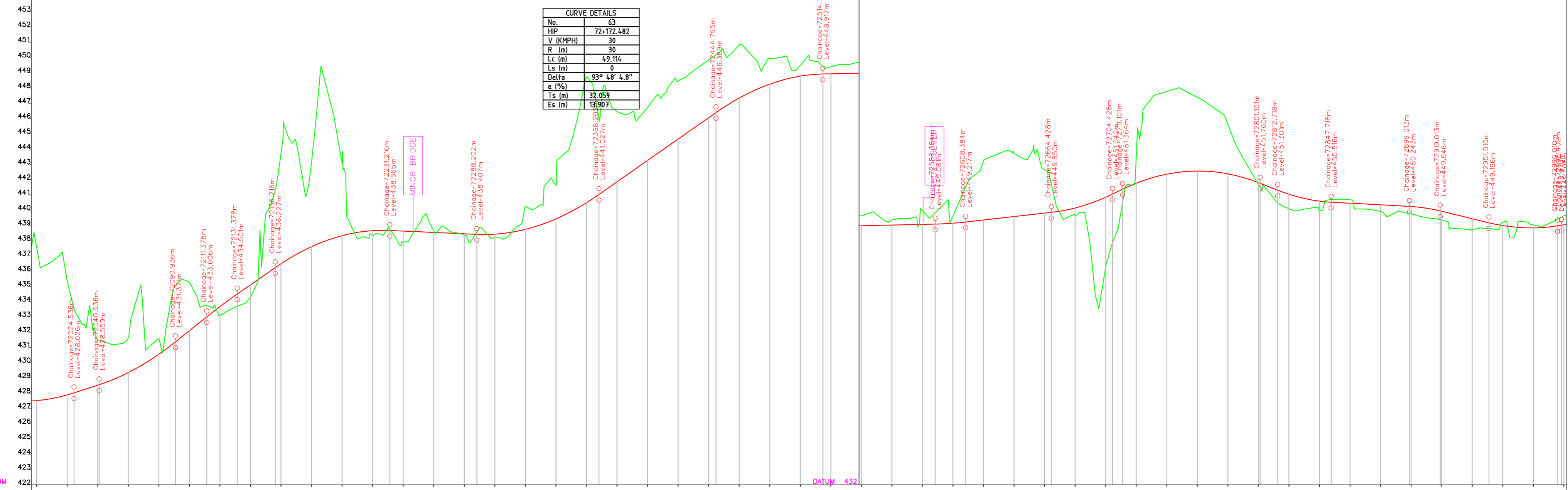
CURVE DETAILS	
No.	64
HIP	72+300.707
V (KMPH)	30
R (m)	-45
Lc (m)	99.430
Ls (m)	0
Delta	126° 35' 53.2"
e (%)	
Ts (m)	89.469
Es (m)	55.148

CURVE DETAILS	
No.	65
HIP	72+370.034
V (KMPH)	40
R (m)	50
Lc (m)	35.955
Ls (m)	0
Delta	4° 12' 3.9"
e (%)	
Ts (m)	18.794
Es (m)	3.416

CURVE DETAILS	
No.	66
HIP	72+514.940
V (KMPH)	50
R (m)	200
Lc (m)	108.760
Ls (m)	20
Delta	36° 53' 12.8"
e (%)	
Ts (m)	76.727
Es (m)	10.917

CURVE DETAILS	
No.	67
HIP	72+869.432
V (KMPH)	50
R (m)	-300
Lc (m)	118.114
Ls (m)	15
Delta	25° 25' 22.8"
e (%)	
Ts (m)	75.178
Es (m)	7.570

CURVE DETAILS	
No.	63
HIP	72+172.482
V (KMPH)	30
R (m)	30
Lc (m)	49.114
Ls (m)	0
Delta	93° 48' 4.8"
e (%)	
Ts (m)	37.059
Es (m)	13.907



Project:
 Consultancy Services for preparation of Feasibility Study and Detailed Project Report for Two laning of Akajan-Likabali-Bame Road from Existing Km 71.0 to Km 99.0 (Design Km 65.810 to Km 91.928 of Length: 26.118 km for execution on EPC Mode in the State of Arunachal Pradesh under Arunachal Pradesh package of SARDP-NE

Client:

 GOVERNMENT OF INDIA
 NATIONAL HIGHWAY INFRASTRUCTURE DEVELOPMENT CORPORATION LTD.

DPR Consultant:

Theotech Project Services (P) Ltd.
 Land Surveyors, Consulting Engineers & Contractors
 135, Mohammad Pur, Near Bhikaji Cama Place
 New Delhi-110066

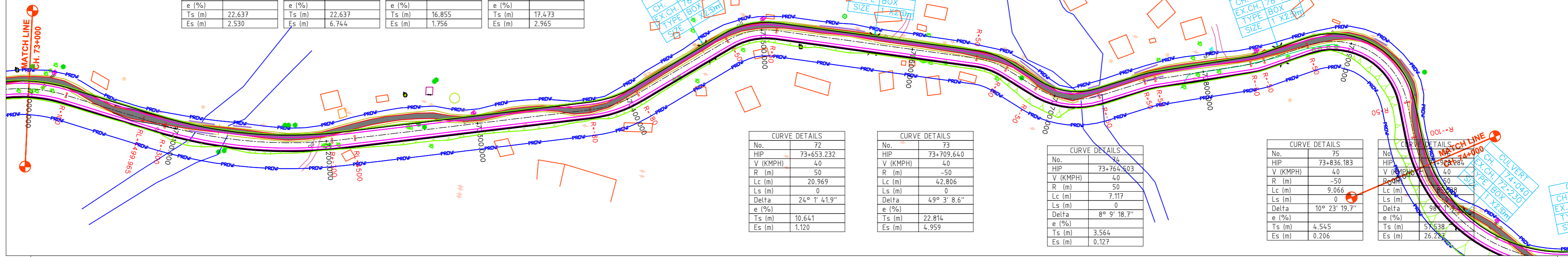
Drawing Title:
FINAL DETAILED PROJECT REPORT
PLAN & PROFILE KM 72+000 TO Km.73+000
 Scale:
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 10m 5 00 10m 20m 30m 40m 50m

Drawing No.:	TPSP/NHIDCL/P&P/65-97/SP-08	Sheet No.:	1551	Project No.:	1551
Scale:	HORIZONTAL : 2000 VERTICAL : 200	Date:	09-01-2017	Revision:	NIL
Designed:	K.RAJNEES	Drawn:	HITESH	Checked:	R.DHAR
				Approved:	I.S.MANOCHA

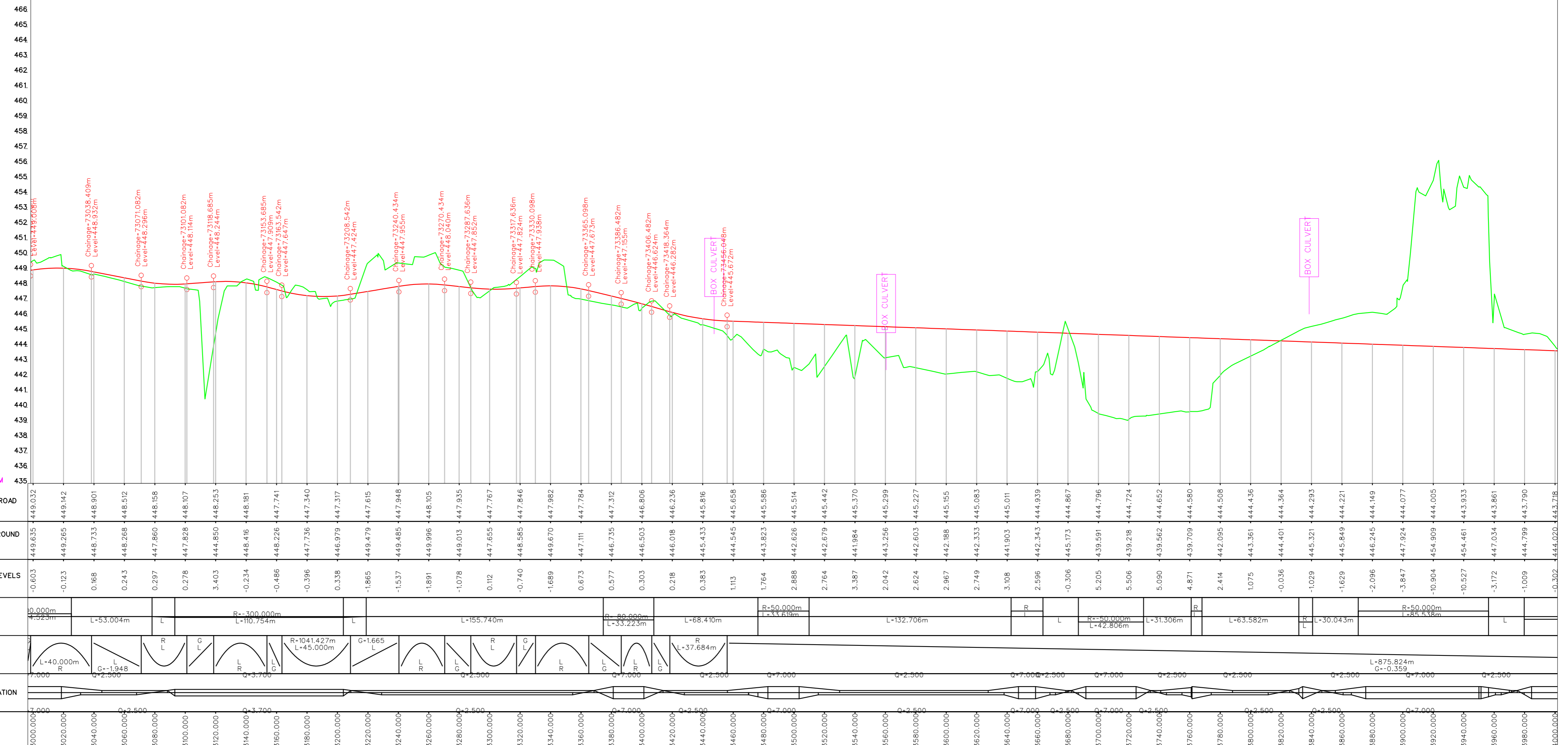
← LIKABALI

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CURVE DETAILS		CURVE DETAILS		CURVE DETAILS		CURVE DETAILS	
No.	HIP	No.	HIP	No.	HIP	No.	HIP
68	73+003.250	69	73+149.155	70	73+391.489	71	73+493.740
V (KMPH)	50	V (KMPH)	50	V (KMPH)	50	V (KMPH)	40
R (m)	100	R (m)	-300	R (m)	-80	R (m)	50
Lc (m)	44.523	Lc (m)	110.754	Lc (m)	33.223	Lc (m)	33.619
Ls (m)	0	Ls (m)	15	Ls (m)	0	Ls (m)	0
Delta	25° 30' 35.7"	Delta	24° 4' 1.7"	Delta	23° 47' 39.7"	Delta	38° 31' 26.4"
e (%)		e (%)		e (%)		e (%)	
Ts (m)	22.637	Ts (m)	22.637	Ts (m)	16.855	Ts (m)	17.473
Es (m)	2.530	Es (m)	6.744	Es (m)	1.756	Es (m)	2.965



CURVE DETAILS		CURVE DETAILS		CURVE DETAILS		CURVE DETAILS		CURVE DETAILS	
No.	HIP	No.	HIP	No.	HIP	No.	HIP	No.	HIP
72	73+653.232	73	73+709.640	74	73+764.503	75	73+836.183	76	73+921.884
V (KMPH)	40	V (KMPH)	40	V (KMPH)	40	V (KMPH)	40	V (KMPH)	40
R (m)	50	R (m)	-50	R (m)	50	R (m)	-50	R (m)	50
Lc (m)	20.969	Lc (m)	42.806	Lc (m)	7.117	Lc (m)	9.066	Lc (m)	9.066
Ls (m)	0	Ls (m)	0	Ls (m)	0	Ls (m)	0	Ls (m)	0
Delta	24° 4' 41.9"	Delta	49° 3' 8.6"	Delta	8° 9' 18.7"	Delta	10° 23' 19.7"	Delta	98° 51' 58.8"
e (%)		e (%)		e (%)		e (%)		e (%)	
Ts (m)	10.641	Ts (m)	22.814	Ts (m)	3.564	Ts (m)	4.545	Ts (m)	57.538
Es (m)	1.120	Es (m)	4.959	Es (m)	0.127	Es (m)	0.206	Es (m)	26.252



Project:
 Consultancy Services for preparation of Feasibility Study and Detailed Project Report for Two laning of Akajan-Likabali-Bame Road from Existing Km 71.0 to Km 99.0 (Design Km 65.810 to Km 91.928 of Length: 26.118 km for execution on EPC Mode in the State of Arunachal Pradesh under Arunachal Pradesh package of SARDP-NE

Client:

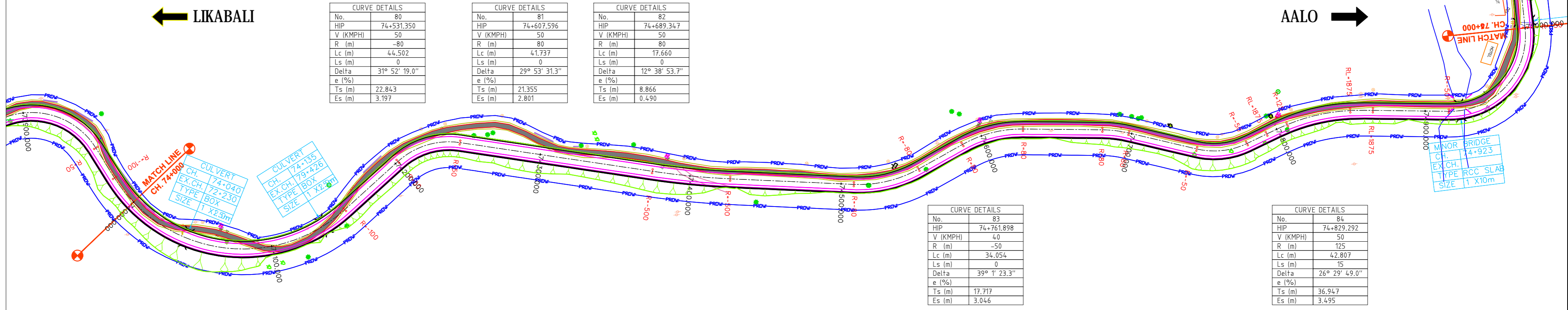
GOVERNMENT OF INDIA
NATIONAL HIGHWAY INFRASTRUCTURE DEVELOPMENT CORPORATION LTD.

DPR Consultant:

Theotech Project Services (P) Ltd.
 Land Surveyors, Consulting Engineers & Contractors
 135, Mohammad Pur, Near Bhikaji Cama Place
 New Delhi-110066

Drawing Title:
FINAL DETAILED PROJECT REPORT
PLAN & PROFILE KM 73+000 TO Km.74+000
 Scale:
 -10mm 5 00 1cm 2cm 3cm 4cm 5cm
 10m 5 00 10m 20m 30m 40m 50m

Drawing No.:	TPSP/NHIDCL/P&P/65-97/SP-09	Sheet No.:	1551
Scale:	HORIZONTAL : 2000 VERTICAL : 200	Date:	09-01-2017
Designed:	K.RAJNEES	Drawn:	HITESH
Checked:	R.DHAR	Approved:	I.S.MANOCHA



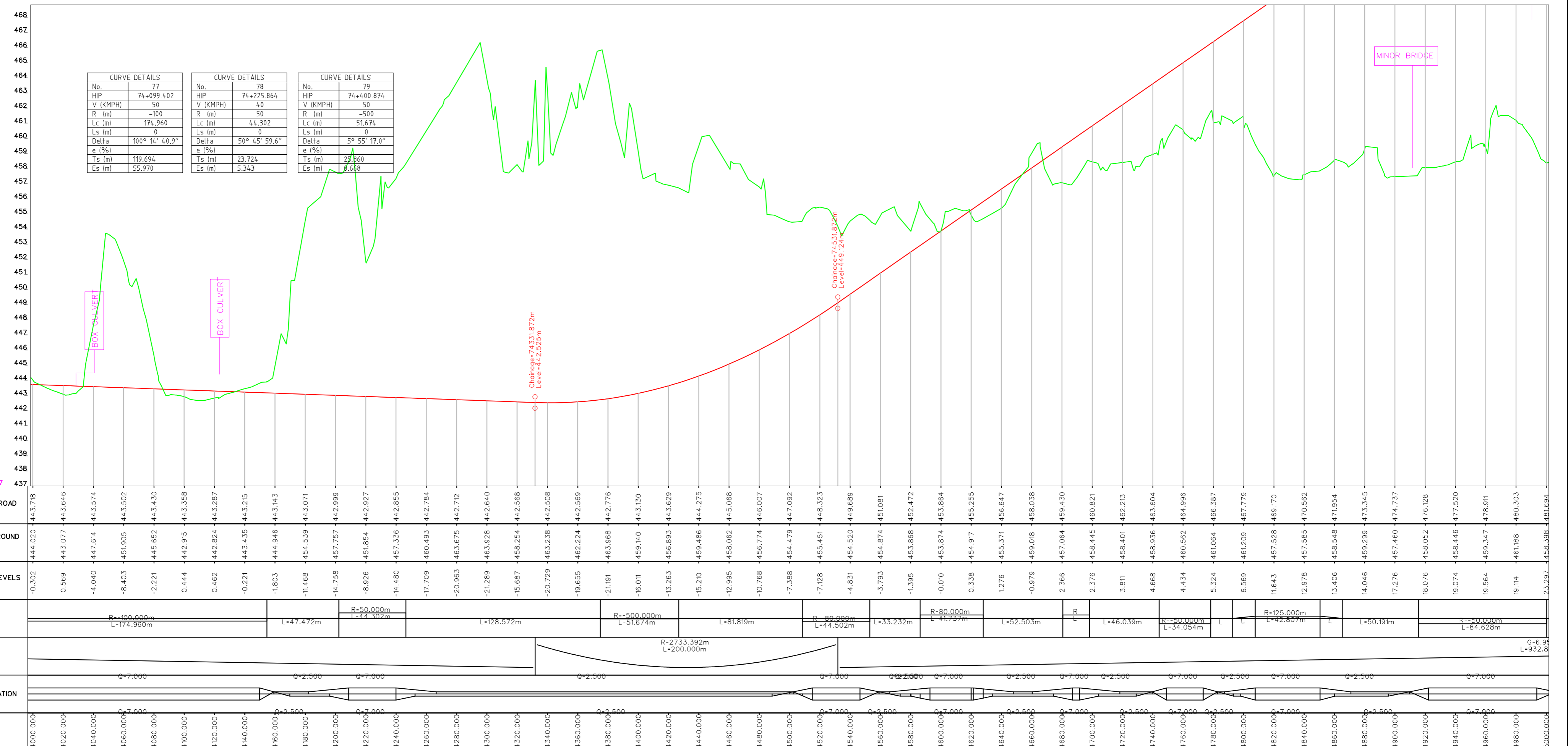
CURVE DETAILS	
No.	80
HIP	74+531.350
V (KMPH)	50
R (m)	-80
Lc (m)	44.502
Ls (m)	0
Delta	31° 52' 19.0"
e (%)	22.843
Ts (m)	22.843
Es (m)	3.197

CURVE DETAILS	
No.	81
HIP	74+607.596
V (KMPH)	50
R (m)	80
Lc (m)	41.737
Ls (m)	0
Delta	29° 53' 31.3"
e (%)	21.355
Ts (m)	21.355
Es (m)	2.801

CURVE DETAILS	
No.	82
HIP	74+689.347
V (KMPH)	50
R (m)	80
Lc (m)	17.660
Ls (m)	0
Delta	12° 38' 53.7"
e (%)	8.866
Ts (m)	8.866
Es (m)	0.490

CURVE DETAILS	
No.	83
HIP	74+761.898
V (KMPH)	40
R (m)	-50
Lc (m)	34.054
Ls (m)	0
Delta	39° 1' 23.3"
e (%)	17.717
Ts (m)	17.717
Es (m)	3.046

CURVE DETAILS	
No.	84
HIP	74+829.292
V (KMPH)	50
R (m)	125
Lc (m)	42.807
Ls (m)	15
Delta	26° 29' 49.0"
e (%)	36.947
Ts (m)	36.947
Es (m)	3.495



CURVE DETAILS	
No.	77
HIP	74+099.402
V (KMPH)	50
R (m)	-100
Lc (m)	174.960
Ls (m)	0
Delta	100° 16' 40.9"
e (%)	119.694
Ts (m)	55.970
Es (m)	55.970

CURVE DETAILS	
No.	78
HIP	74+225.864
V (KMPH)	40
R (m)	-500
Lc (m)	44.302
Ls (m)	0
Delta	50° 45' 59.6"
e (%)	23.724
Ts (m)	23.724
Es (m)	5.343

CURVE DETAILS	
No.	79
HIP	74+400.874
V (KMPH)	50
R (m)	-500
Lc (m)	51.674
Ls (m)	0
Delta	5° 55' 17.0"
e (%)	29.860
Ts (m)	29.860
Es (m)	8.648

Project:
 Consultancy Services for preparation of Feasibility Study and Detailed Project Report for Two laning of Akajan-Likabali-Bame Road from Existing Km 71.0 to Km 99.0 (Design Km 65.810 to Km 91.928 of Length: 26.118 km for execution on EPC Mode in the State of Arunachal Pradesh under Arunachal Pradesh package of SARDP-NE

Client:

 GOVERNMENT OF INDIA
 NATIONAL HIGHWAY INFRASTRUCTURE DEVELOPMENT CORPORATION LTD.

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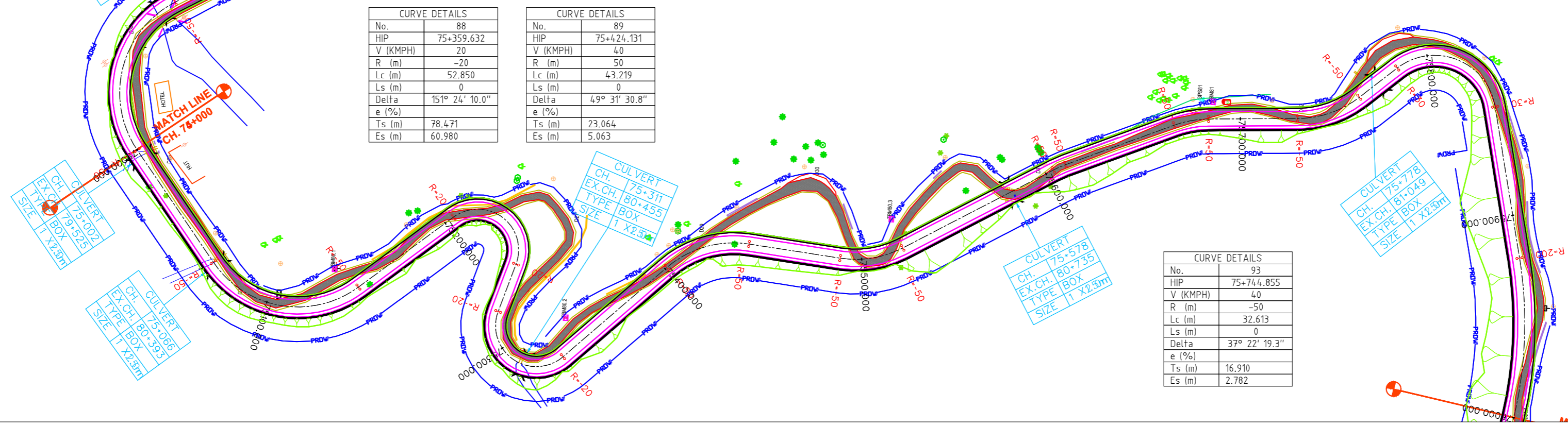
Drawing Title:
FINAL DETAILED PROJECT REPORT
PLAN & PROFILE KM 74+000 TO Km.75+000

Scale:
 -10mm : 5 00
 1cm : 20m
 2cm : 40m
 3cm : 60m
 4cm : 80m
 5cm : 100m

Drawing No.:	TPSP/NHIDCL/P&P/65-97/SP-10	Sheet No.:	1551
Scale:	HORIZONTAL : 2000 VERTICAL : 200	Date:	09-01-2017
Designed:	K.RAJNEES	Checked:	R.DHAR
Drawn:	HITESH	Approved:	I.S.MANOCHA
Revision:	NIL	Original Size:	A2
Project No.:	1551	Approved:	I.S.MANOCHA

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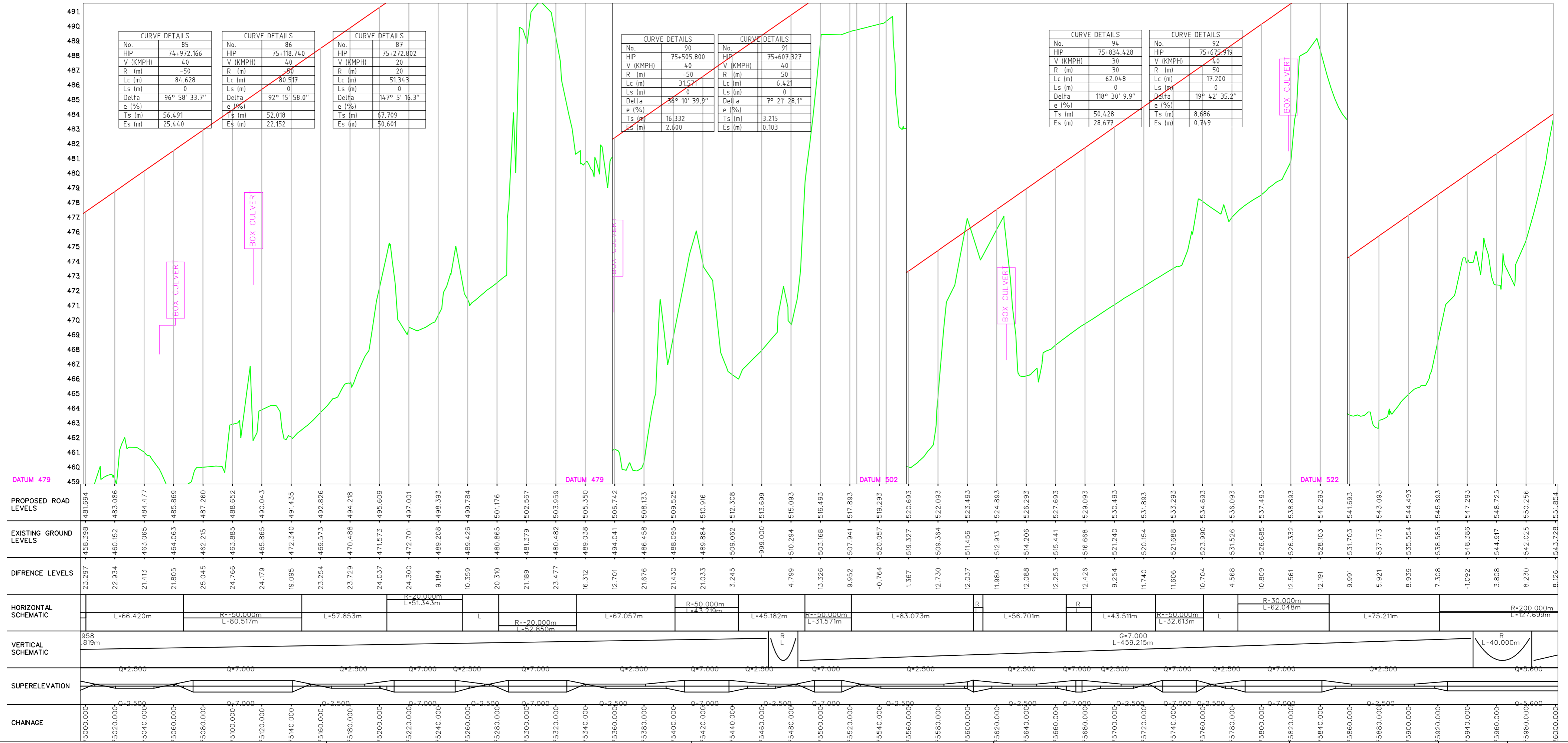
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CURVE DETAILS	
No.	88
HIP	75+359.632
V (KMPH)	20
R (m)	-20
Lc (m)	52.850
Ls (m)	0
Delta	151° 24' 10.0"
e (%)	
Ts (m)	78.471
Es (m)	60.980

CURVE DETAILS	
No.	89
HIP	75+424.131
V (KMPH)	40
R (m)	50
Lc (m)	43.219
Ls (m)	0
Delta	49° 31' 30.8"
e (%)	
Ts (m)	23.064
Es (m)	5.063

CURVE DETAILS	
No.	93
HIP	75+744.855
V (KMPH)	40
R (m)	-50
Lc (m)	32.613
Ls (m)	0
Delta	37° 22' 19.3"
e (%)	
Ts (m)	16.910
Es (m)	2.782



CURVE DETAILS	
No.	85
HIP	74+972.166
V (KMPH)	40
R (m)	-50
Lc (m)	84.628
Ls (m)	0
Delta	96° 58' 33.7"
e (%)	
Ts (m)	56.491
Es (m)	25.440

CURVE DETAILS	
No.	86
HIP	75+118.740
V (KMPH)	40
R (m)	-50
Lc (m)	80.517
Ls (m)	0
Delta	92° 15' 58.0"
e (%)	
Ts (m)	52.018
Es (m)	22.152

CURVE DETAILS	
No.	87
HIP	75+272.802
V (KMPH)	20
R (m)	20
Lc (m)	51.343
Ls (m)	0
Delta	147° 5' 16.3"
e (%)	
Ts (m)	67.709
Es (m)	50.601

CURVE DETAILS	
No.	90
HIP	75+505.800
V (KMPH)	40
R (m)	-50
Lc (m)	31.571
Ls (m)	0
Delta	26° 10' 39.9"
e (%)	
Ts (m)	16.332
Es (m)	2.600

CURVE DETAILS	
No.	91
HIP	75+607.327
V (KMPH)	40
R (m)	50
Lc (m)	6.421
Ls (m)	0
Delta	7° 21' 28.1"
e (%)	
Ts (m)	3.215
Es (m)	0.103

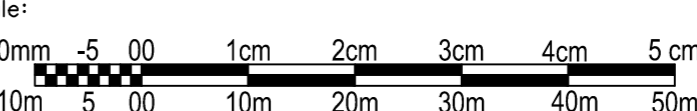
CURVE DETAILS	
No.	94
HIP	75+834.428
V (KMPH)	30
R (m)	30
Lc (m)	62.048
Ls (m)	0
Delta	118° 30' 9.9"
e (%)	
Ts (m)	50.428
Es (m)	28.677

CURVE DETAILS	
No.	92
HIP	75+675.919
V (KMPH)	40
R (m)	50
Lc (m)	17.200
Ls (m)	0
Delta	19° 42' 35.2"
e (%)	
Ts (m)	8.686
Es (m)	0.749

Project: Consultancy Services for preparation of Feasibility Study and Detailed Project Report for Two laning of Akajan-Likabali-Bame Road from Existing Km 71.0 to Km 99.0 (Design Km 65.810 to Km 91.928 of Length: 26.118 km for execution on EPC Mode in the State of Arunachal Pradesh under Arunachal Pradesh package of SARDP-NE

Client:  **GOVERNMENT OF INDIA**
NATIONAL HIGHWAY INFRASTRUCTURE DEVELOPMENT CORPORATION LTD.

DPR Consultant:  **Theotech Project Services (P) Ltd.**
 Land Surveyors, Consulting Engineers & Contractors
 135, Mohammad Pur, Near Bhikaji Cama Place
 New Delhi-110066

Drawing Title: **FINAL DETAILED PROJECT REPORT**
PLAN & PROFILE KM 75+000 TO Km.76+000
 Scale: 

Drawing No.: TPSP/NHIDCL/P&P/65-97/SP-11	Sheet No.:	Project No.:
Scale: HORIZONTAL : 2000 VERTICAL : 200	Date: 09-01-2017	Revision: NIL
Designed: K.RAJNEES	Drawn: HITESH	Checked: R.DHAR
		Original Size: A2
		Approved: I.S.MANOCHA

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CURVE DETAILS	
No.	115
HIP	77+990.414
V (KMPH)	30
R (m)	30
Lc (m)	61.319
Ls (m)	0
Delta	117° 6' 41.3"
e (%)	
Ts (m)	49.063
Es (m)	27.508

CURVE DETAILS	
No.	116
HIP	78+054.078
V (KMPH)	40
R (m)	-50
Lc (m)	45.218
Ls (m)	0
Delta	51° 48' 58.0"
e (%)	
Ts (m)	24.287
Es (m)	5.587

CURVE DETAILS	
No.	117
HIP	78+138.108
V (KMPH)	40
R (m)	-50
Lc (m)	20.946
Ls (m)	0
Delta	24° 0' 8.3"
e (%)	
Ts (m)	10.629
Es (m)	1.117

CURVE DETAILS	
No.	118
HIP	78+247.016
V (KMPH)	40
R (m)	50
Lc (m)	25.715
Ls (m)	0
Delta	29° 28' 1.2"
e (%)	
Ts (m)	13.149
Es (m)	1.700

CURVE DETAILS	
No.	119
HIP	78+319.794
V (KMPH)	50
R (m)	-100
Lc (m)	51.685
Ls (m)	0
Delta	29° 36' 48.9"
e (%)	
Ts (m)	26.434
Es (m)	3.435

CURVE DETAILS	
No.	120
HIP	78+381.708
V (KMPH)	40
R (m)	50
Lc (m)	19.266
Ls (m)	0
Delta	22° 4' 39.5"
e (%)	
Ts (m)	9.754
Es (m)	0.943

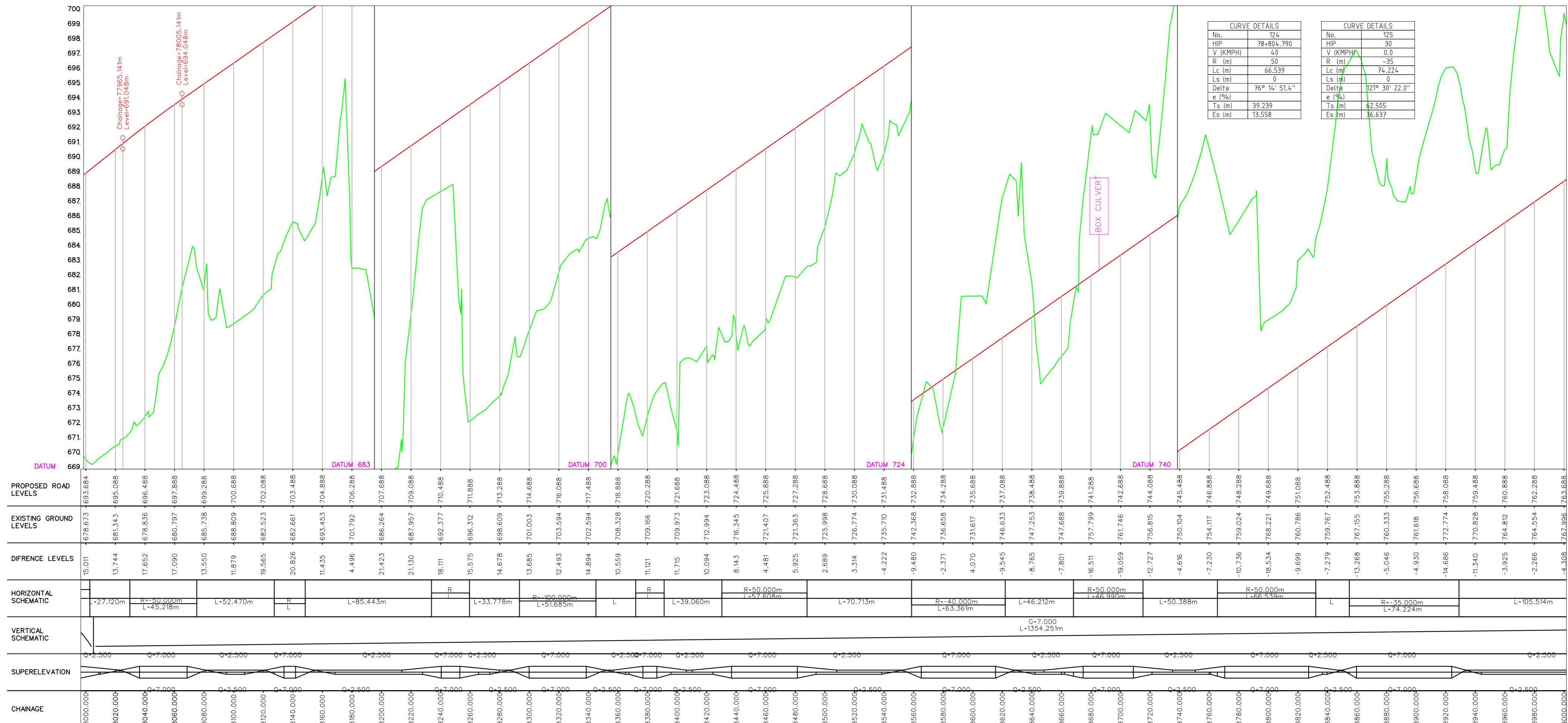
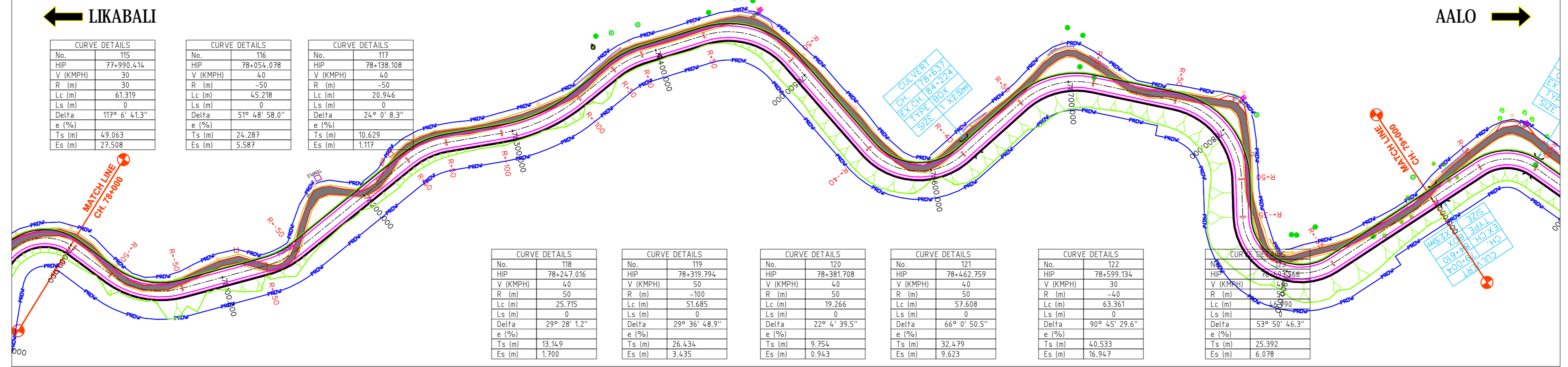
CURVE DETAILS	
No.	121
HIP	78+462.759
V (KMPH)	40
R (m)	50
Lc (m)	57.608
Ls (m)	0
Delta	66° 0' 50.5"
e (%)	
Ts (m)	32.479
Es (m)	9.623

CURVE DETAILS	
No.	122
HIP	78+599.134
V (KMPH)	40
R (m)	-40
Lc (m)	63.361
Ls (m)	0
Delta	90° 45' 29.6"
e (%)	
Ts (m)	40.533
Es (m)	16.947

CURVE DETAILS	
No.	123
HIP	78+635.666
V (KMPH)	40
R (m)	50
Lc (m)	63.361
Ls (m)	0
Delta	53° 50' 46.3"
e (%)	
Ts (m)	25.392
Es (m)	6.078

CURVE DETAILS	
No.	124
HIP	78+804.790
V (KMPH)	40
R (m)	50
Lc (m)	66.539
Ls (m)	0
Delta	76° 14' 51.4"
e (%)	
Ts (m)	39.239
Es (m)	13.558

CURVE DETAILS	
No.	125
HIP	78+804.790
V (KMPH)	0.0
R (m)	-35
Lc (m)	74.224
Ls (m)	0
Delta	121° 30' 22.0"
e (%)	
Ts (m)	42.505
Es (m)	36.637



Project:
 Consultancy Services for preparation of Feasibility Study and Detailed Project Report for Two laning of Akajan-Likabali-Bame Road from Existing Km 71.0 to Km 99.0 (Design Km 65.810 to Km 91.928 of Length: 26.118 km for execution on EPC Mode in the State of Arunachal Pradesh under Arunachal Pradesh package of SARDP-NE

Client:

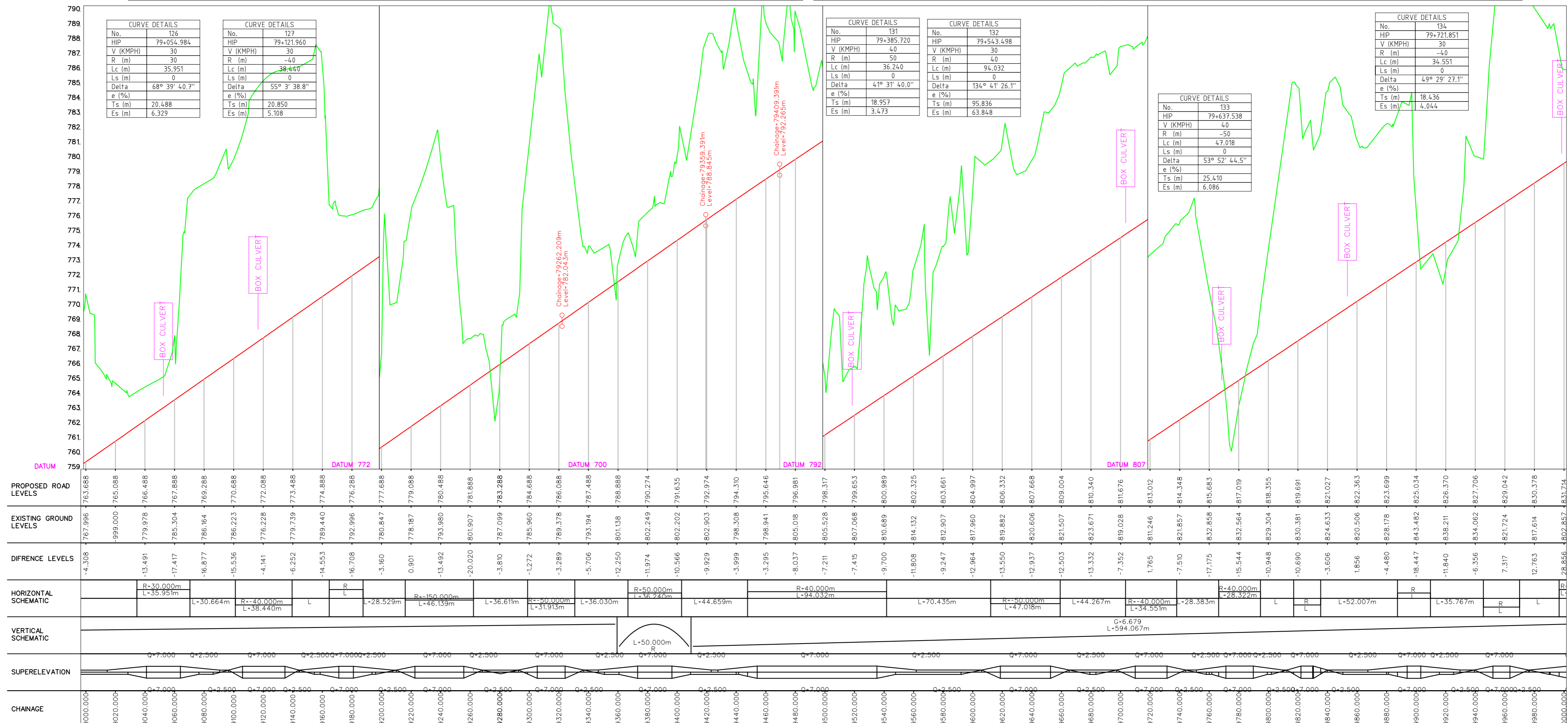
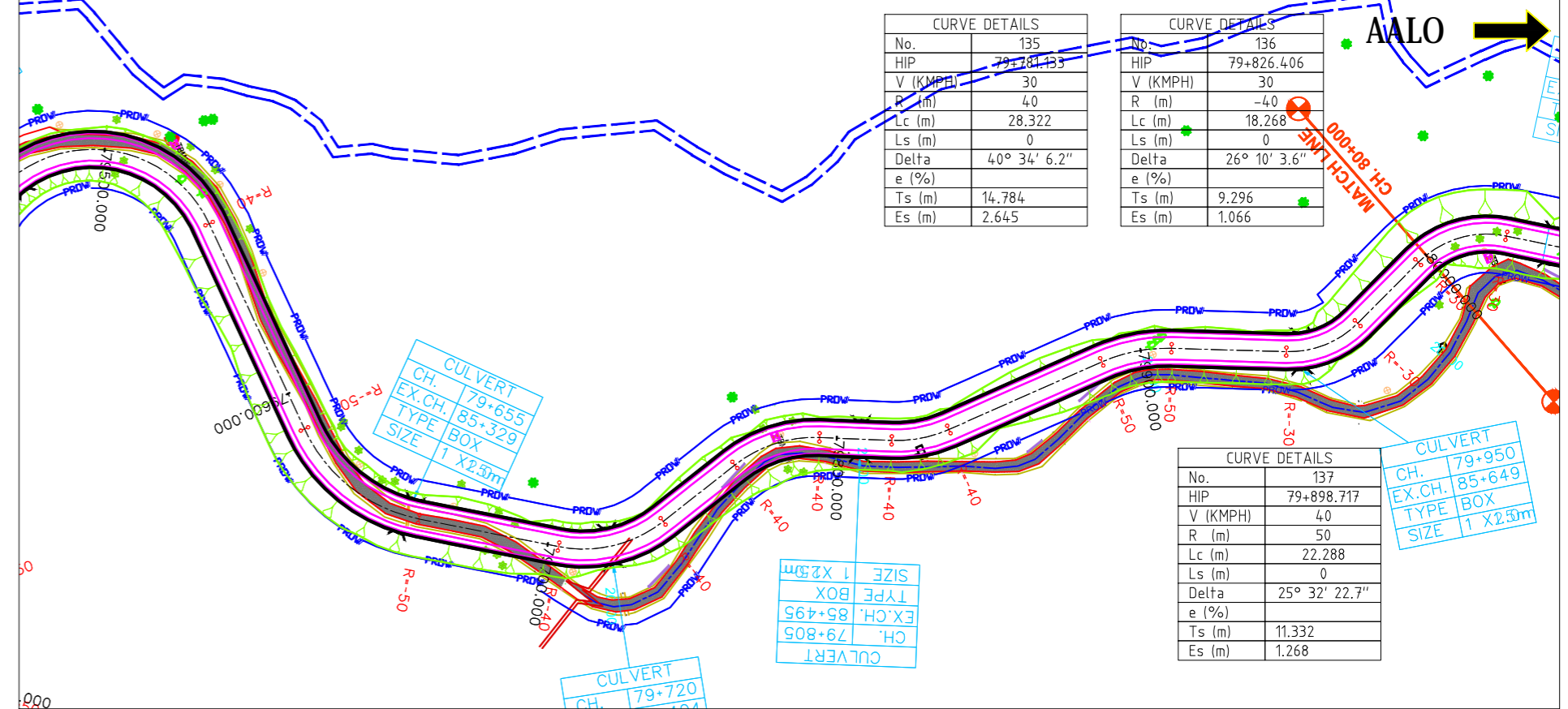
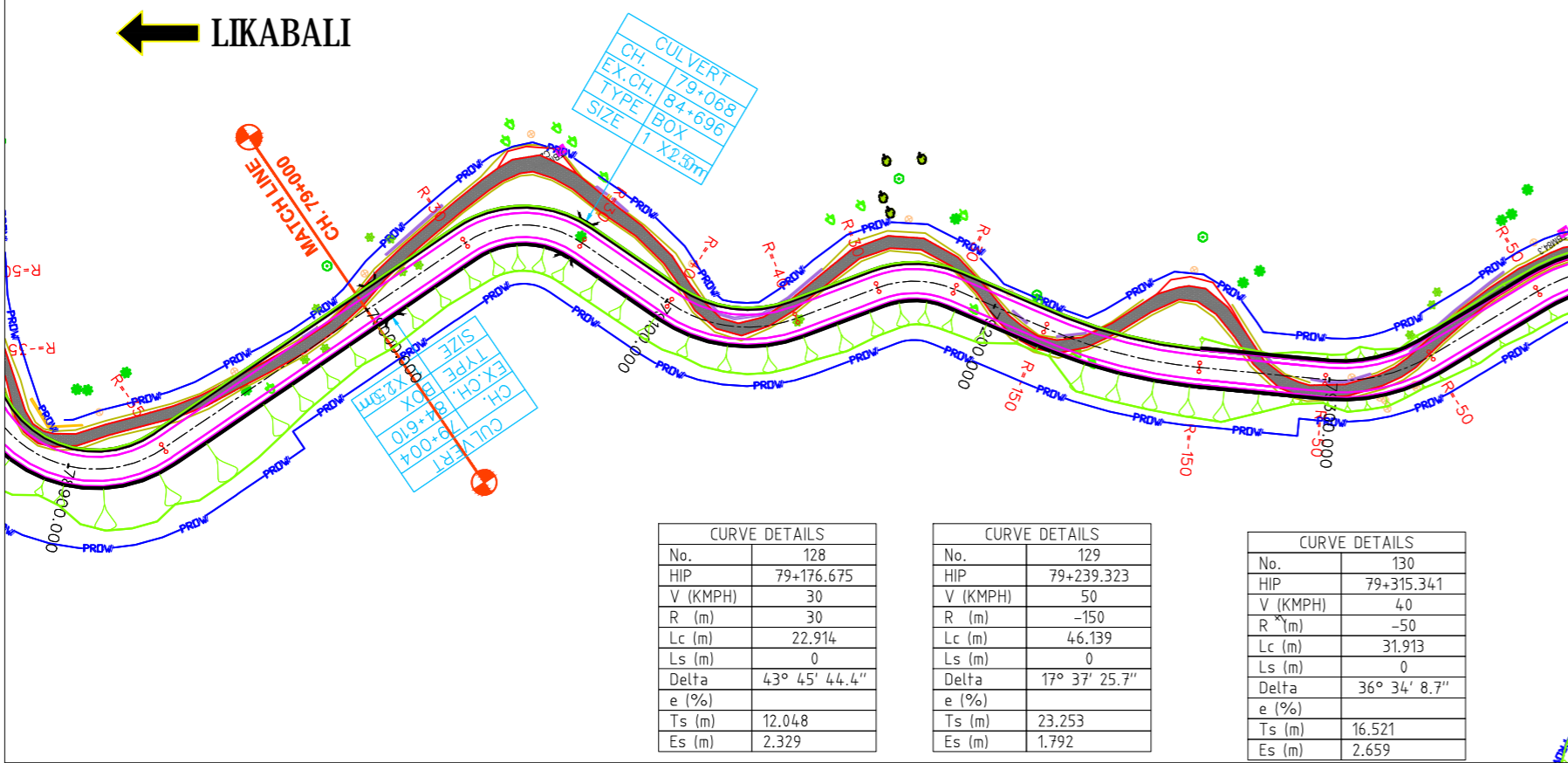
 GOVERNMENT OF INDIA
 NATIONAL HIGHWAY INFRASTRUCTURE DEVELOPMENT CORPORATION LTD.

DPR Consultant:

Theotech Project Services (P) Ltd.
 Land Surveyors, Consulting Engineers & Contractors
 135, Mohammad Pur, Near Bhikaji Cama Place
 New Delhi-110066

Drawing Title:
FINAL DETAILED PROJECT REPORT
PLAN & PROFILE KM 78+000 TO Km.79+000
 Scale:
 -10mm 5 00 1cm 2cm 3cm 4cm 5 cm
 10m 5 00 10m 20m 30m 40m 50m

Drawing No.:	TPSP/NHIDCL/P&P/65-97/SP-14	Sheet No.:	1551
Scale:	HORIZONTAL : 2000 VERTICAL : 200	Date:	09-01-2017
Designed:	K.RAJNEES	Checked:	R.DHAR
Drawn:	HITESH	Approved:	I.S.MANOCHA



Project:
 Consultancy Services for preparation of Feasibility Study and Detailed Project Report for Two laning of Akajan-Likabali-Bame Road from Existing Km 71.0 to Km 99.0 (Design Km 65.810 to Km 91.928 of Length: 26.118 km for execution on EPC Mode in the State of Arunachal Pradesh under Arunachal Pradesh package of SARDP-NE

Client:

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 New Delhi-110066

Drawing Title:
FINAL DETAILED PROJECT REPORT
PLAN & PROFILE KM 79+000 TO Km.80+000
 Scale:
 -10mm : 10m
 -5 : 5m
 -00 : 0m
 1cm : 10m
 2cm : 20m
 3cm : 30m
 4cm : 40m
 5cm : 50m

Drawing No.:	TPSP/NHIDCL/P&P/ 65-97/SP- 15	Sheet No.:	1551	Project No.:	1551
Scale:	HORIZONTAL : 2000 VERTICAL : 200	Date:	09-01-2017	Revision:	NIL
Designed:	K.RAJNEES	Drawn:	HITESH	Checked:	R.DHAR
				Approved:	I.S.MANOCHA

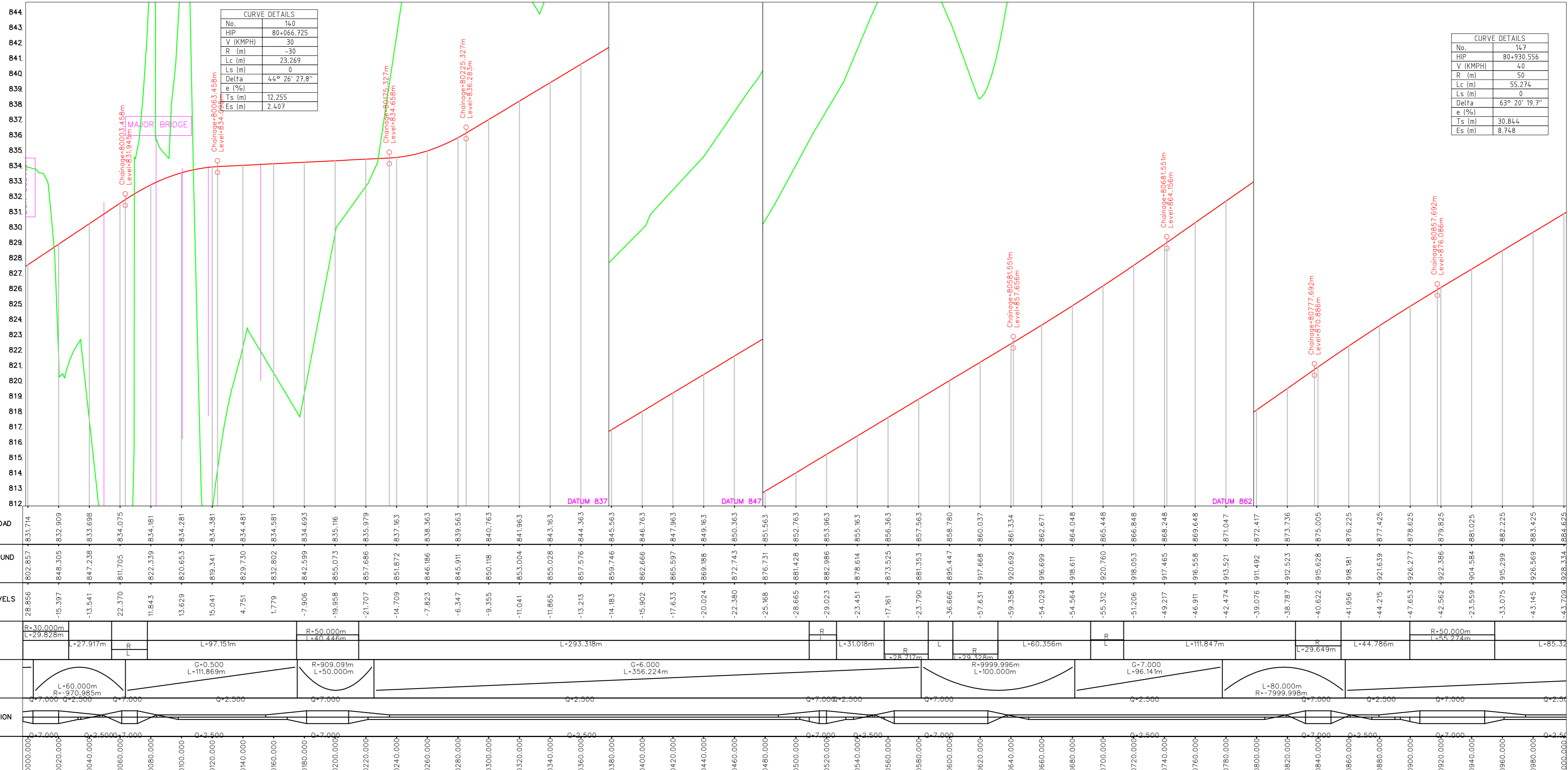
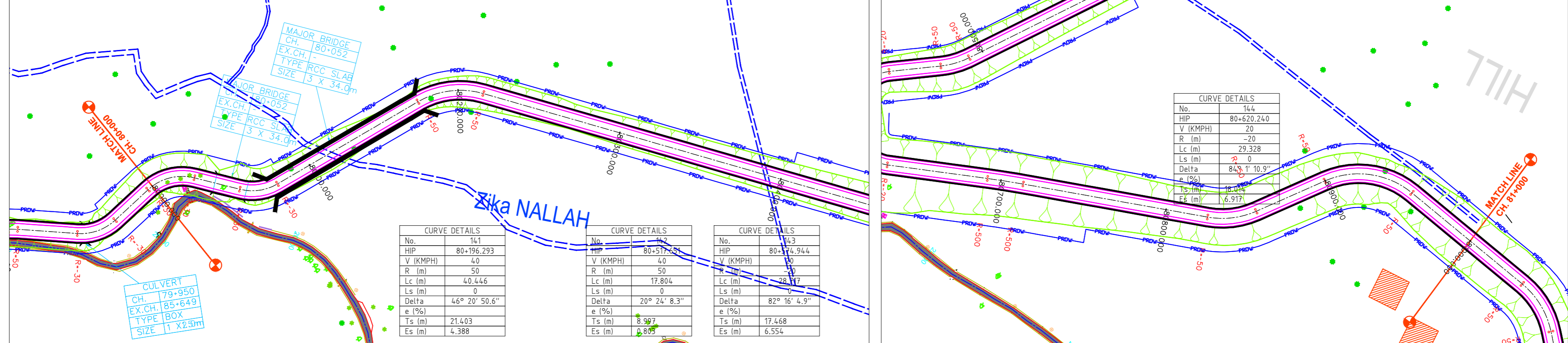
CURVE DETAILS	
No.	138
HIP	79+958.428
V (KMPH)	30
R (m)	-30
Lc (m)	24.514
Ls (m)	0
Delta	46° 49' 7.0"
e (%)	0
Ts (m)	12.988
Es (m)	2.691

CURVE DETAILS	
No.	139
HIP	80+013.002
V (KMPH)	30
R (m)	30
Lc (m)	29.828
Ls (m)	0
Delta	56° 58' 4.8"
e (%)	0
Ts (m)	16.278
Es (m)	4.132

CURVE DETAILS	
No.	145
HIP	80+702.672
V (KMPH)	50
R (m)	500
Lc (m)	21.520
Ls (m)	0
Delta	2° 27' 57.5"
e (%)	0
Ts (m)	10.761
Es (m)	0.116

CURVE DETAILS	
No.	146
HIP	80+840.552
V (KMPH)	40
R (m)	-50
Lc (m)	29.649
Ls (m)	0
Delta	33° 58' 32.0"
e (%)	0
Ts (m)	15.275
Es (m)	2.281

CURVE DETAILS	
No.	147
HIP	80+930.556
V (KMPH)	40
R (m)	50
Lc (m)	55.274
Ls (m)	0
Delta	63° 20' 19.7"
e (%)	0
Ts (m)	30.844
Es (m)	8.748



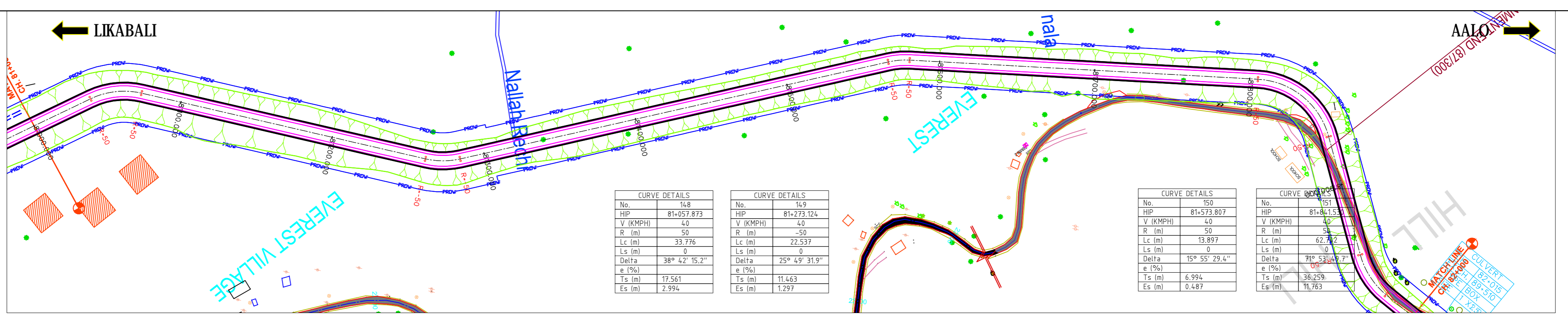
Project: Consultancy Services for preparation of Feasibility Study and Detailed Project Report for Two laning of Akajan-Likabali-Bame Road from Existing Km 71.0 to Km 99.0 (Design Km 65.810 to Km 91.928 of Length: 26.118 km for execution on EPC Mode in the State of Arunachal Pradesh under Arunachal Pradesh package of SARDP-NE

Client: **GOVERNMENT OF INDIA**
NATIONAL HIGHWAY INFRASTRUCTURE DEVELOPMENT CORPORATION LTD.

DPR Consultant: **Theotech Project Services (P) Ltd.**
 Land Surveyors, Consulting Engineers & Contractors
 135, Mohammad Pur, Near Bhikaji Cama Place
 New Delhi-110066

Drawing Title: **FINAL DETAILED PROJECT REPORT**
PLAN & PROFILE KM 80+000 TO Km.81+000
 Scale:

Drawing No.: TPSP/NHIDCL/P&P/65-97/SP-16	Sheet No.:	Project No.:
Scale: HORIZONTAL : 2000 VERTICAL : 200	Date: 09-01-2017	Revision: NIL
Designed: K.RAJNEES	Drawn: HITESH	Checked: R.DHAR
		Approved: I.S.MANOCHA

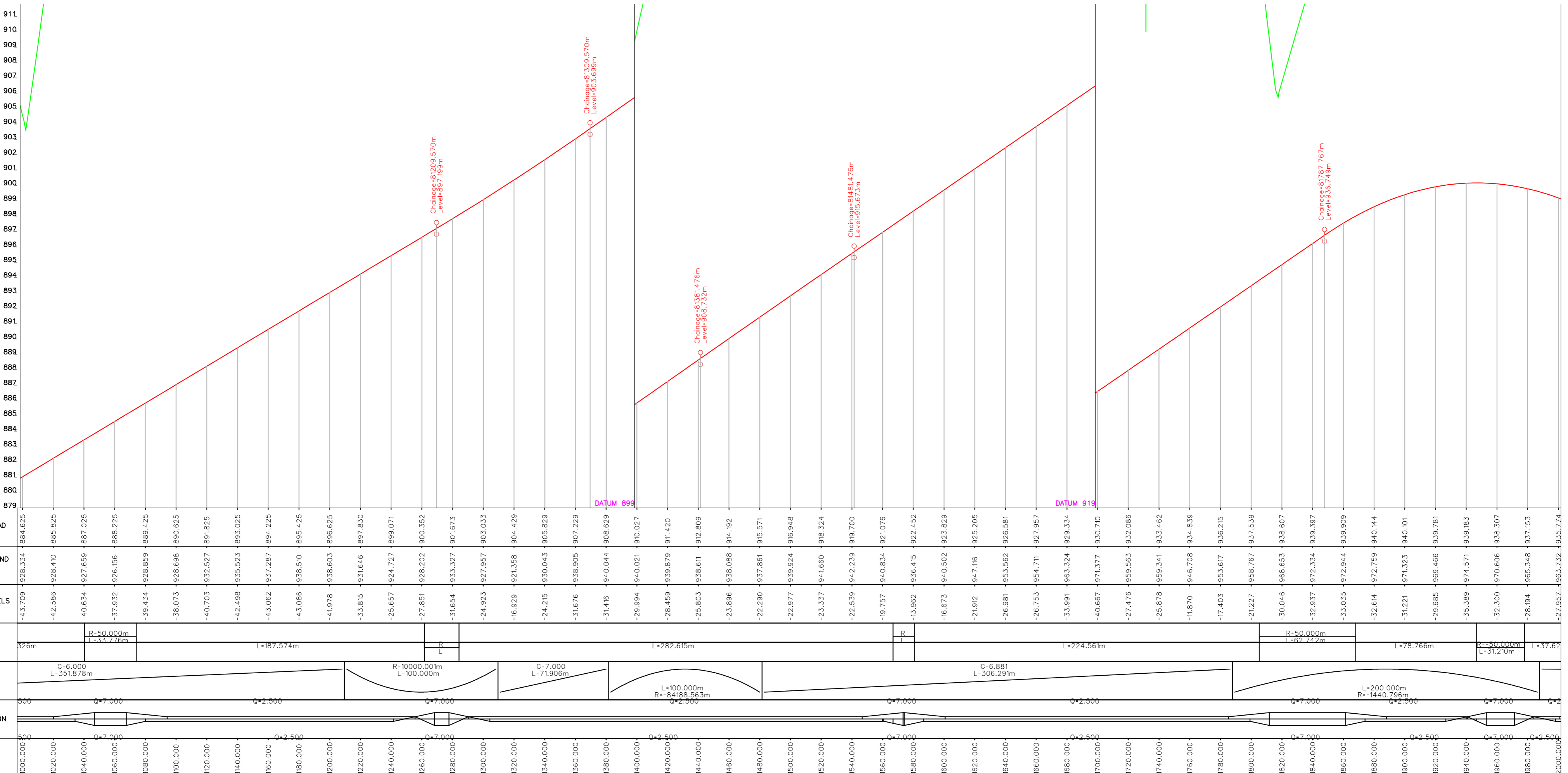


CURVE DETAILS	
No.	148
HIP	81+057.873
V (KMPH)	40
R (m)	50
Lc (m)	33.776
Ls (m)	0
Delta	38° 42' 15.2"
e (%)	
Ts (m)	17.561
Es (m)	2.994

CURVE DETAILS	
No.	149
HIP	81+273.124
V (KMPH)	40
R (m)	-50
Lc (m)	22.537
Ls (m)	0
Delta	25° 49' 31.9"
e (%)	
Ts (m)	11.463
Es (m)	1.297

CURVE DETAILS	
No.	150
HIP	81+573.807
V (KMPH)	40
R (m)	50
Lc (m)	13.897
Ls (m)	0
Delta	15° 55' 29.4"
e (%)	
Ts (m)	6.994
Es (m)	0.487

CURVE DETAILS	
No.	151
HIP	81+811.551
V (KMPH)	40
R (m)	50
Lc (m)	62.782
Ls (m)	0
Delta	71° 53' 49.7"
e (%)	
Ts (m)	36.259
Es (m)	11.763



Project:
 Consultancy Services for preparation of Feasibility Study and Detailed Project Report for Two laning of Akajan-Likabali-Bame Road from Existing Km 71.0 to Km 99.0 (Design Km 65.810 to Km 91.928 of Length: 26.118 km for execution on EPC Mode in the State of Arunachal Pradesh under Arunachal Pradesh package of SARDP-NE

Client:

 GOVERNMENT OF INDIA
 NATIONAL HIGHWAY INFRASTRUCTURE DEVELOPMENT CORPORATION LTD.

DPR Consultant:

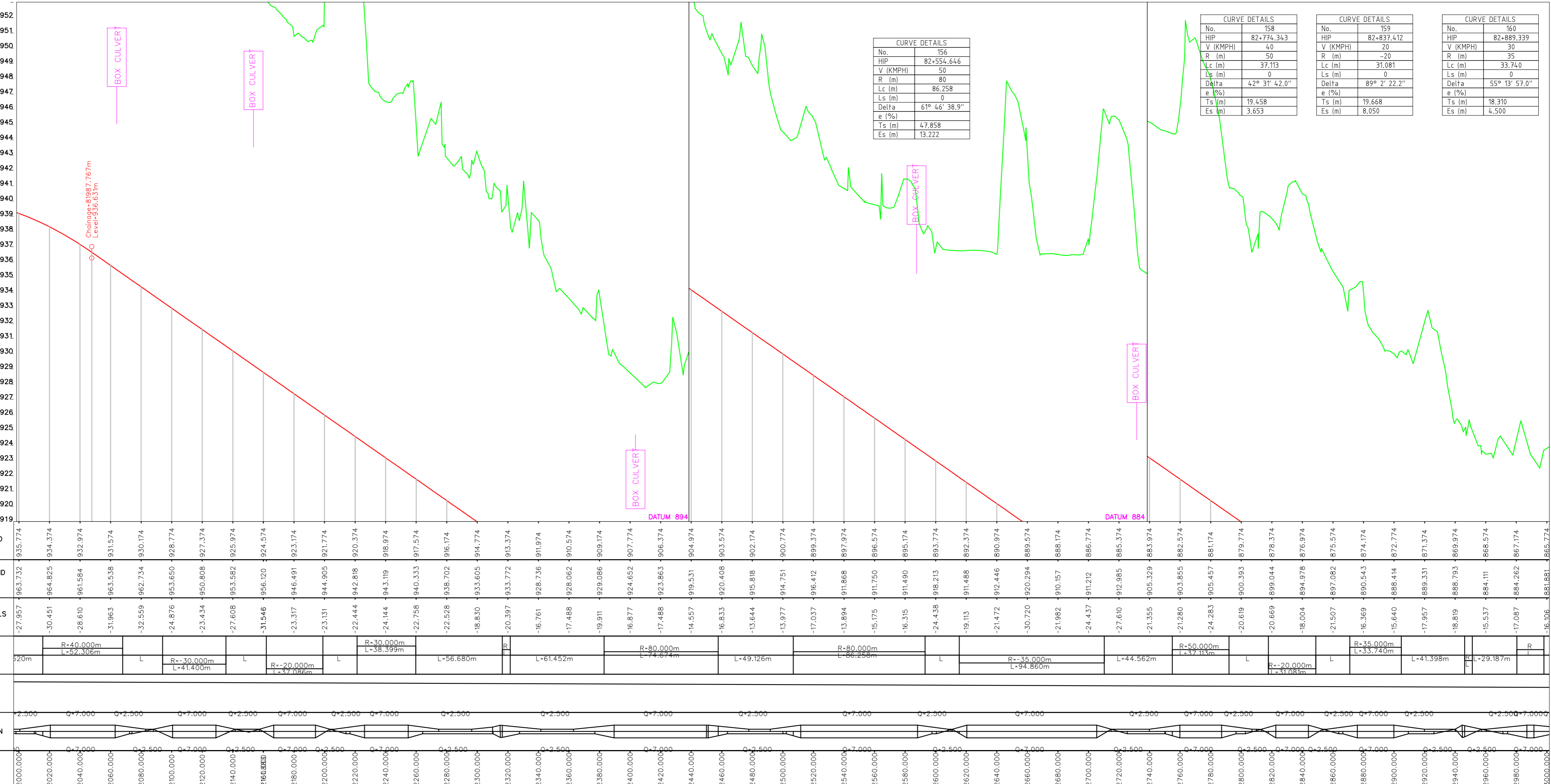
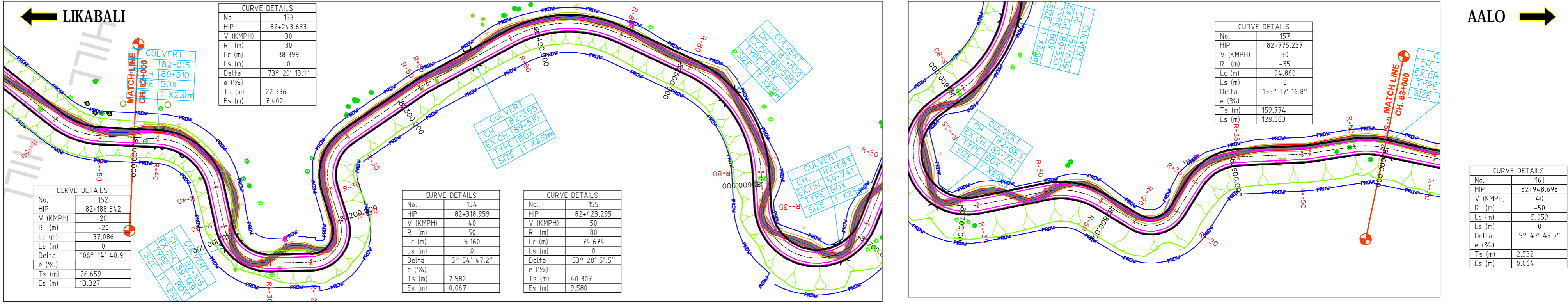
Theotech Project Services (P) Ltd.
 Land Surveyors, Consulting Engineers & Contractors
 135, Mohammad Pur, Near Bhikaji Cama Place
 New Delhi-110066

Drawing Title:
FINAL DETAILED PROJECT REPORT
PLAN & PROFILE KM 81+000 TO Km.82+000
 Scale:
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Drawing No.:	TPSP/NHIDCL/P&P/65-97/SP-17	Sheet No.:	1551
Scale:	HORIZONTAL : 2000 VERTICAL : 200	Date:	09-01-2017
Designed:	K.RAJNEES	Checked:	R.DHAR
Drawn:	HITESH	Approved:	I.S.MANOCHA

LIKABALI ←

→ AALO



Project: Consultancy Services for preparation of Feasibility Study and Detailed Project Report for Two laning of Akajan-Likabali-Bame Road from Existing Km 71.0 to Km 99.0 (Design Km 65.810 to Km 91.928 of Length: 26.118 km for execution on EPC Mode in the State of Arunachal Pradesh under Arunachal Pradesh package of SARDP-NE

Client: GOVERNMENT OF INDIA
NATIONAL HIGHWAY INFRASTRUCTURE DEVELOPMENT CORPORATION LTD.

DPR Consultant: **Theotech Project Services (P) Ltd.**
 Land Surveyors, Consulting Engineers & Contractors
 135, Mohammad Pur, Near Bhikaji Cama Place
 New Delhi-110066

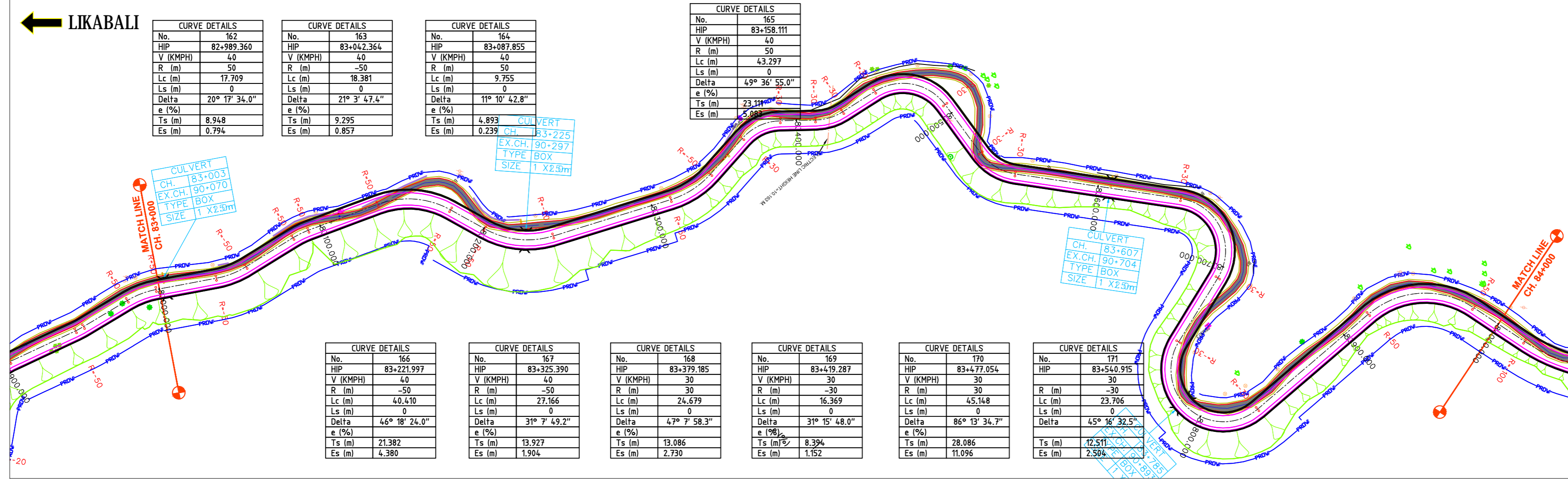
Drawing Title: **FINAL DETAILED PROJECT REPORT**
PLAN & PROFILE KM 82+000 TO Km.83+000

Scale:

Drawing No.: TPSP/NHIDCL/P&P/65-97/SP-18	Sheet No.:	Project No.:
Scale: HORIZONTAL : 2000 VERTICAL : 200	Date: 09-01-2017	Revision: NIL
Designed: K.RAJNEES	Drawn: HITESH	Checked: R.DHAR
		Approved: I.S.MANOCHA

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CURVE DETAILS	
No.	162
HIP	82+989.360
V (KMPH)	40
R (m)	50
Lc (m)	17.709
Ls (m)	0
Delta	20° 17' 34.0"
e (%)	
Ts (m)	8.948
Es (m)	0.794

CURVE DETAILS	
No.	163
HIP	83+042.364
V (KMPH)	40
R (m)	-50
Lc (m)	18.381
Ls (m)	0
Delta	21° 3' 47.6"
e (%)	
Ts (m)	9.295
Es (m)	0.857

CURVE DETAILS	
No.	164
HIP	83+087.855
V (KMPH)	40
R (m)	50
Lc (m)	9.755
Ls (m)	0
Delta	11° 10' 42.8"
e (%)	
Ts (m)	4.893
Es (m)	0.239

CURVE DETAILS	
No.	165
HIP	83+158.111
V (KMPH)	40
R (m)	50
Lc (m)	43.297
Ls (m)	0
Delta	49° 36' 55.0"
e (%)	
Ts (m)	23.116
Es (m)	5.068

CURVE DETAILS	
No.	172
HIP	83+693.193
V (KMPH)	30
R (m)	30
Lc (m)	59.174
Ls (m)	0
Delta	113° 0' 47.6"
e (%)	
Ts (m)	45.336
Es (m)	24.363

CURVE DETAILS	
No.	173
HIP	83+940.669
V (KMPH)	30
R (m)	-30
Lc (m)	84.886
Ls (m)	0
Delta	162° 7' 15.6"
e (%)	
Ts (m)	190.716
Es (m)	163.061

CURVE DETAILS	
No.	166
HIP	83+221.997
V (KMPH)	40
R (m)	-50
Lc (m)	40.410
Ls (m)	0
Delta	46° 18' 24.0"
e (%)	
Ts (m)	21.382
Es (m)	4.380

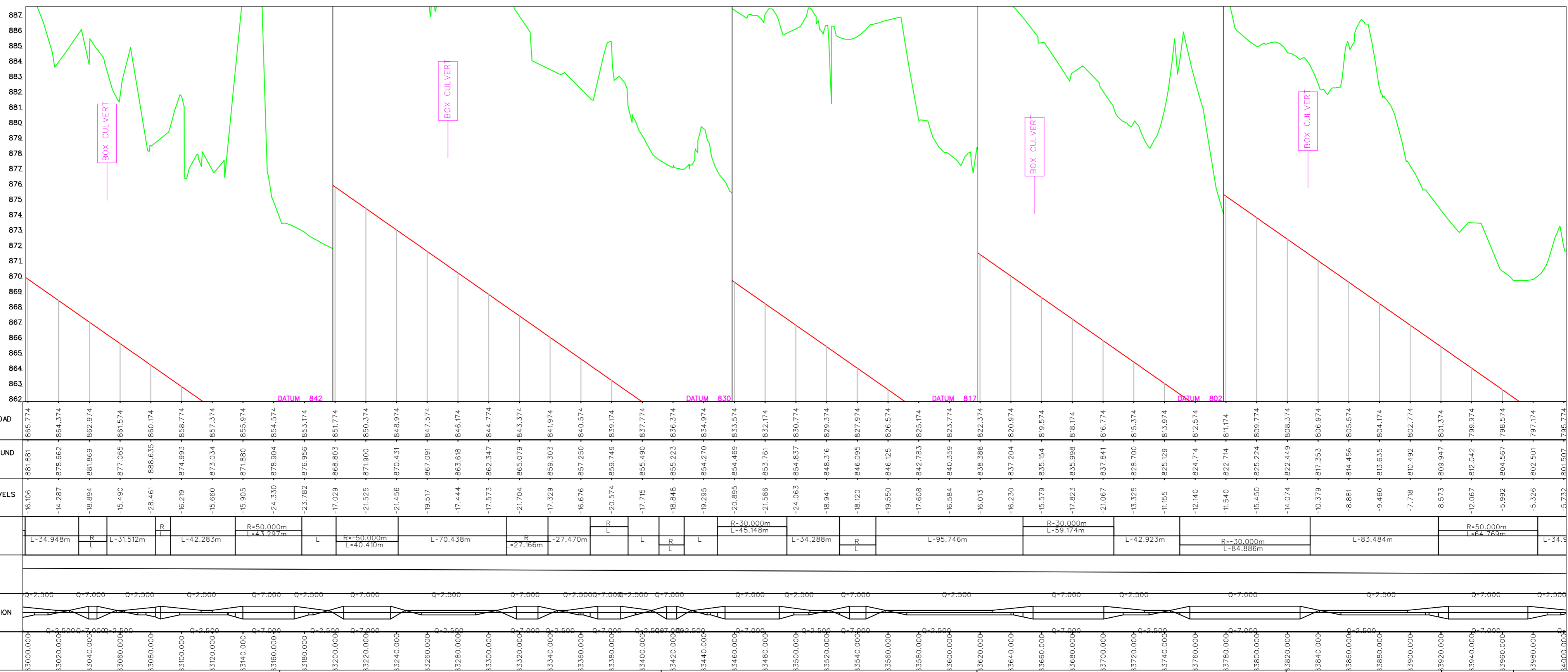
CURVE DETAILS	
No.	167
HIP	83+325.390
V (KMPH)	40
R (m)	-50
Lc (m)	27.166
Ls (m)	0
Delta	31° 7' 49.2"
e (%)	
Ts (m)	13.927
Es (m)	1.904

CURVE DETAILS	
No.	168
HIP	83+379.185
V (KMPH)	30
R (m)	30
Lc (m)	24.679
Ls (m)	0
Delta	47° 7' 58.3"
e (%)	
Ts (m)	13.086
Es (m)	2.730

CURVE DETAILS	
No.	169
HIP	83+419.287
V (KMPH)	30
R (m)	-30
Lc (m)	16.369
Ls (m)	0
Delta	31° 15' 48.0"
e (%)	
Ts (m)	8.394
Es (m)	1.152

CURVE DETAILS	
No.	170
HIP	83+477.054
V (KMPH)	30
R (m)	-30
Lc (m)	45.148
Ls (m)	0
Delta	86° 13' 34.7"
e (%)	
Ts (m)	28.086
Es (m)	11.096

CURVE DETAILS	
No.	171
HIP	83+540.915
V (KMPH)	30
R (m)	-30
Lc (m)	23.706
Ls (m)	0
Delta	45° 16' 32.5"
e (%)	
Ts (m)	12.511
Es (m)	2.506



Project:
 Consultancy Services for preparation of Feasibility Study and Detailed Project Report for Two laning of Akajan-Likabali-Bame Road from Existing Km 71.0 to Km 99.0 (Design Km 65.810 to Km 91.928 of Length: 26.118 km for execution on EPC Mode in the State of Arunachal Pradesh under Arunachal Pradesh package of SARDP-NE

Client:

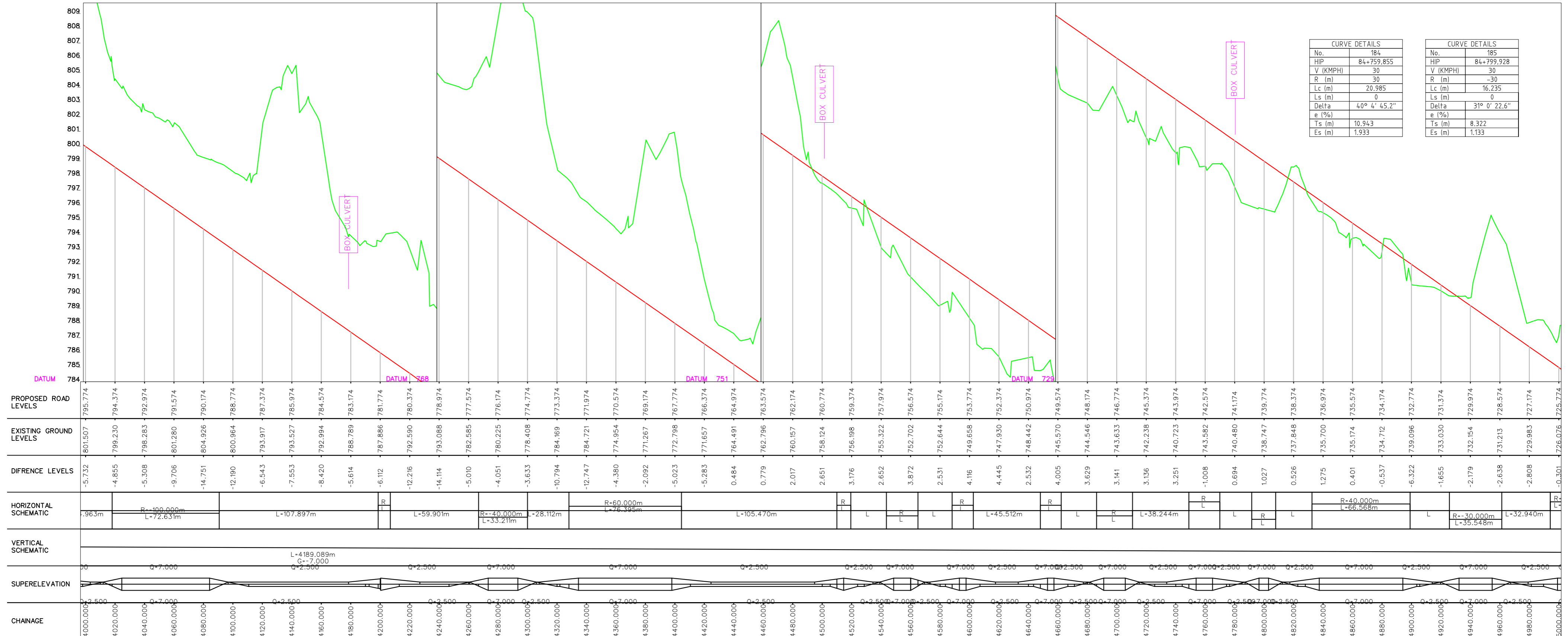
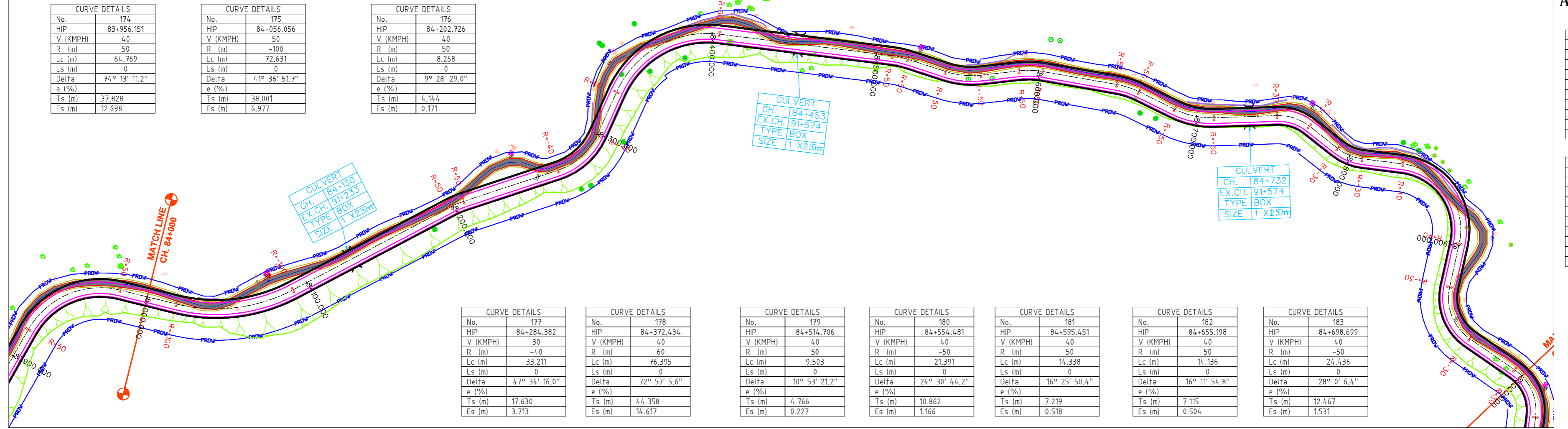
GOVERNMENT OF INDIA
NATIONAL HIGHWAY INFRASTRUCTURE DEVELOPMENT CORPORATION LTD.

DPR Consultant:

Theotech Project Services (P) Ltd.
 Land Surveyors, Consulting Engineers & Contractors
 135, Mohammad Pur, Near Bhikaji Cama Place
 New Delhi-110066

Drawing Title:
FINAL DETAILED PROJECT REPORT
PLAN & PROFILE KM 83+000 TO Km.84+000
 Scale:
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 10m 5 00 10m 20m 30m 40m 50m

Drawing No.: TPSP/NHIDCL/P&P/65-97/SP-19
 Sheet No.:
 Project No.: 1551
 Scale: HORIZONTAL : 2000 VERTICAL : 200
 Date: 09-01-2017
 Revision: NIL
 Original Size: A2
 Designed: K.RAJNEES
 Drawn: HITESH
 Checked: R.DHAR
 Approved: I.S.MANOCHA



Project:
 Consultancy Services for preparation of Feasibility Study and Detailed Project Report for Two laning of Akajan-Likabali-Bame Road from Existing Km 71.0 to Km 99.0 (Design Km 65.810 to Km 91.928 of Length: 26.118 km for execution on EPC Mode in the State of Arunachal Pradesh under Arunachal Pradesh package of SARDP-NE

Client:

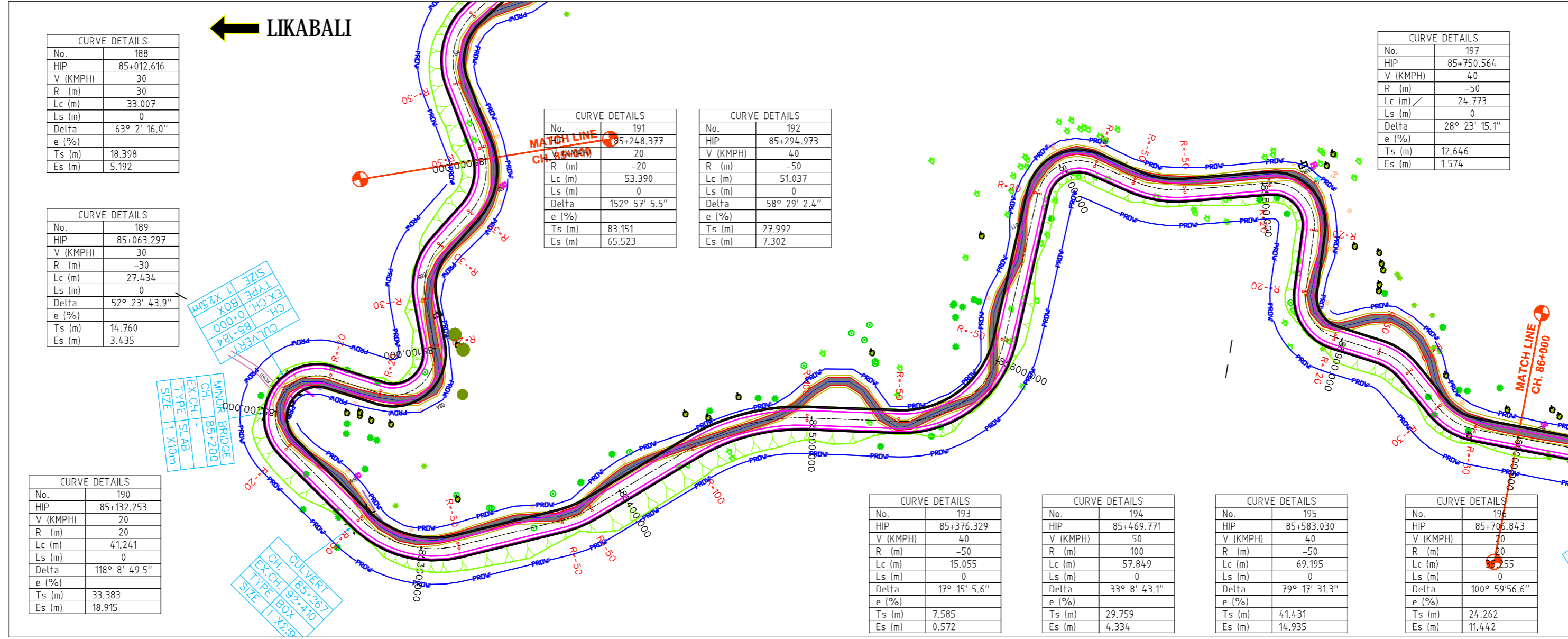
GOVERNMENT OF INDIA
NATIONAL HIGHWAY INFRASTRUCTURE DEVELOPMENT CORPORATION LTD.

DPR Consultant:

Theotech Project Services (P) Ltd.
 Land Surveyors, Consulting Engineers & Contractors
 135, Mohammad Pur, Near Bhikaji Cama Place
 New Delhi-110066

Drawing Title:
FINAL DETAILED PROJECT REPORT
PLAN & PROFILE KM 84+000 TO Km.85+000
 Scale:
 -10mm 5 00 1cm 2cm 3cm 4cm 5cm
 10m 5 00 10m 20m 30m 40m 50m

Drawing No.:
 TPSP/NHIDCL/P&P/ 65-97/SP- 20
 Sheet No.:
 1551
 Project No.:
 1551
 Scale:
 HORIZONTAL : 2000
 VERTICAL : 200
 Date:
 09-01-2017
 Revision:
 NIL
 Original Size:
 A2
 Designed:
 K.RAJNEES
 Drawn:
 HITESH
 Checked:
 R.DHAR
 Approved:
 I.S.MANOCHA



CURVE DETAILS	
No.	188
HIP	85+012.616
V (KMPH)	30
R (m)	30
Lc (m)	33.007
Ls (m)	0
Delta	63° 2' 16.0"
e (%)	
Ts (m)	18.398
Es (m)	5.192

CURVE DETAILS	
No.	189
HIP	85+063.297
V (KMPH)	30
R (m)	-30
Lc (m)	27.434
Ls (m)	0
Delta	52° 23' 43.9"
e (%)	
Ts (m)	14.760
Es (m)	3.435

CURVE DETAILS	
No.	190
HIP	85+132.253
V (KMPH)	20
R (m)	20
Lc (m)	41.241
Ls (m)	0
Delta	118° 8' 49.5"
e (%)	
Ts (m)	33.383
Es (m)	18.915

CURVE DETAILS	
No.	191
HIP	85+248.377
V (KMPH)	20
R (m)	-20
Lc (m)	53.390
Ls (m)	0
Delta	152° 57' 5.5"
e (%)	
Ts (m)	83.151
Es (m)	65.523

CURVE DETAILS	
No.	192
HIP	85+294.973
V (KMPH)	40
R (m)	-50
Lc (m)	51.037
Ls (m)	0
Delta	58° 29' 2.4"
e (%)	
Ts (m)	27.992
Es (m)	7.302

CURVE DETAILS	
No.	193
HIP	85+376.329
V (KMPH)	40
R (m)	-50
Lc (m)	15.055
Ls (m)	0
Delta	17° 15' 5.6"
e (%)	
Ts (m)	7.585
Es (m)	0.572

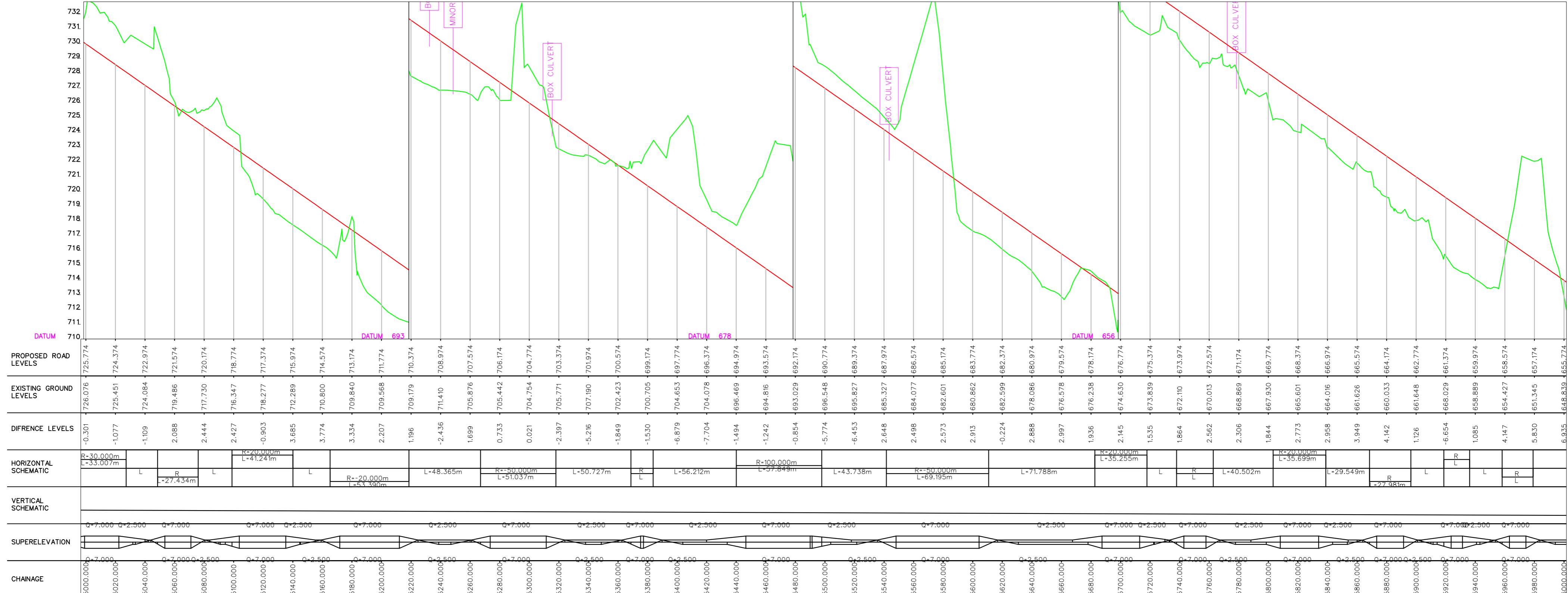
CURVE DETAILS	
No.	194
HIP	85+469.771
V (KMPH)	50
R (m)	100
Lc (m)	57.849
Ls (m)	0
Delta	33° 8' 43.1"
e (%)	
Ts (m)	29.759
Es (m)	4.334

CURVE DETAILS	
No.	195
HIP	85+583.030
V (KMPH)	40
R (m)	-50
Lc (m)	69.195
Ls (m)	0
Delta	79° 17' 31.3"
e (%)	
Ts (m)	41.431
Es (m)	14.935

CURVE DETAILS	
No.	196
HIP	85+706.843
V (KMPH)	20
R (m)	20
Lc (m)	15.055
Ls (m)	0
Delta	100° 59' 56.6"
e (%)	
Ts (m)	24.262
Es (m)	11.442

CURVE DETAILS	
No.	197
HIP	85+750.564
V (KMPH)	40
R (m)	-50
Lc (m)	24.773
Ls (m)	0
Delta	28° 23' 15.1"
e (%)	
Ts (m)	12.646
Es (m)	1.574

CURVE DETAILS	
No.	198
HIP	85+828.009
V (KMPH)	20
R (m)	20
Lc (m)	35.699
Ls (m)	0
Delta	102° 16' 9.9"
e (%)	
Ts (m)	24.817
Es (m)	11.873



Project:
 Consultancy Services for preparation of Feasibility Study and Detailed Project Report for Two laning of Akajan-Likabali-Bame Road from Existing Km 71.0 to Km 99.0 (Design Km 65.810 to Km 91.928 of Length: 26.118 km for execution on EPC Mode in the State of Arunachal Pradesh under Arunachal Pradesh package of SARDP-NE

Client:

GOVERNMENT OF INDIA
NATIONAL HIGHWAY INFRASTRUCTURE DEVELOPMENT CORPORATION LTD.

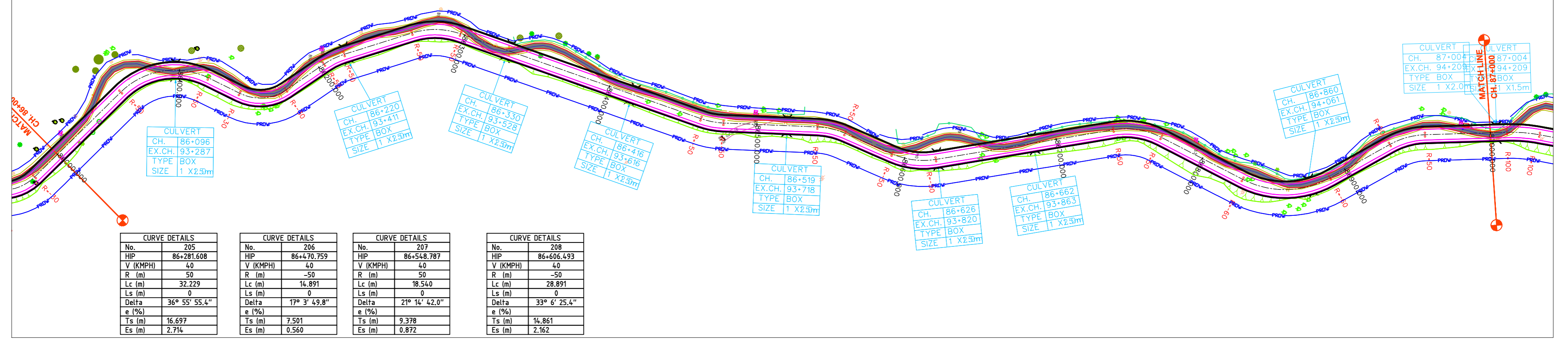
DPR Consultant:

Theotech Project Services (P) Ltd.
 Land Surveyors, Consulting Engineers & Contractors
 135, Mohammad Pur, Near Bhikaji Cama Place
 New Delhi-110066

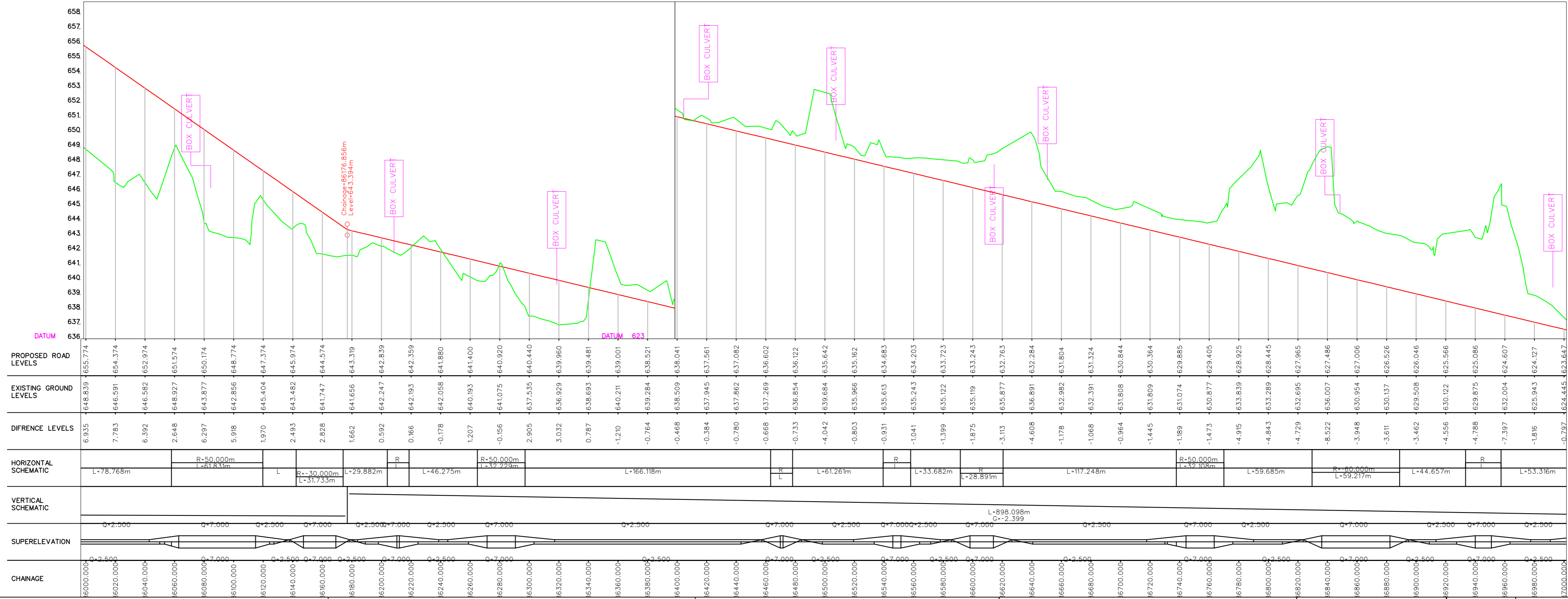
Drawing Title:
FINAL DETAILED PROJECT REPORT
PLAN & PROFILE KM 85+000 TO Km.86+000
 Scale:
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Drawing No.:	TPSP/NHIDCL/P&P/65-97/SP-21	Sheet No.:	1551
Scale:	HORIZONTAL : 2000 VERTICAL : 200	Date:	09-01-2017
Designed:	K.RAJNEES	Checked:	R.DHAR
Drawn:	HITESH	Approved:	I.S.MANOCHA
Revision:	NIL	Original Size:	A2

CURVE DETAILS		CURVE DETAILS		CURVE DETAILS		CURVE DETAILS		CURVE DETAILS		CURVE DETAILS		CURVE DETAILS		CURVE DETAILS	
No.	HIP	No.	HIP	No.	HIP	No.	HIP	No.	HIP	No.	HIP	No.	HIP	No.	HIP
200	85+927.736	201	85+969.093	202	86+093.455	203	86+159.838	204	86+211.332	209	86+754.399	210	86+861.834	211	86+945.682
V (KMPH)	30	V (KMPH)	30	V (KMPH)	40	V (KMPH)	40	V (KMPH)	40	V (KMPH)	40	V (KMPH)	40	V (KMPH)	40
R (m)	30	R (m)	-30	R (m)	50	R (m)	-30	R (m)	50	R (m)	50	R (m)	-60	R (m)	50
Lc (m)	17.456	Lc (m)	20.948	Lc (m)	61.831	Lc (m)	31.733	Lc (m)	14.715	Lc (m)	32.108	Lc (m)	59.217	Lc (m)	24.018
Ls (m)	0	Ls (m)	0	Ls (m)	0	Ls (m)	0	Ls (m)	0	Ls (m)	0	Ls (m)	0	Ls (m)	0
Delta	33° 20' 18.6"	Delta	40° 0' 30.0"	Delta	70° 51' 9.4"	Delta	60° 36' 20.3"	Delta	16° 4' 42.0"	Delta	36° 4' 34.4"	Delta	56° 32' 53.7"	Delta	27° 31' 22.2"
e (%)		e (%)		e (%)		e (%)		e (%)		e (%)		e (%)		e (%)	
Ts (m)	8.983	Ts (m)	10.922	Ts (m)	35.568	Ts (m)	17.533	Ts (m)	7.411	Ts (m)	16.629	Ts (m)	32.272	Ts (m)	12.245
Es (m)	1.316	Es (m)	1.926	Es (m)	11.360	Es (m)	4.748	Es (m)	0.546	Es (m)	2.693	Es (m)	8.128	Es (m)	1.478




CURVE DETAILS		CURVE DETAILS		CURVE DETAILS		CURVE DETAILS	
No.	HIP	No.	HIP	No.	HIP	No.	HIP
205	86+281.608	206	86+470.759	207	86+548.787	208	86+606.493
V (KMPH)	40	V (KMPH)	40	V (KMPH)	40	V (KMPH)	40
R (m)	50	R (m)	-50	R (m)	50	R (m)	-50
Lc (m)	32.229	Lc (m)	14.891	Lc (m)	18.540	Lc (m)	28.891
Ls (m)	0	Ls (m)	0	Ls (m)	0	Ls (m)	0
Delta	36° 55' 55.4"	Delta	17° 3' 49.8"	Delta	21° 14' 42.0"	Delta	33° 6' 25.4"
e (%)		e (%)		e (%)		e (%)	
Ts (m)	16.697	Ts (m)	7.501	Ts (m)	9.378	Ts (m)	14.861
Es (m)	2.714	Es (m)	0.560	Es (m)	0.872	Es (m)	2.162



Project: Consultancy Services for preparation of Feasibility Study and Detailed Project Report for Two laning of Akajan-Likabali-Bame Road from Existing Km 71.0 to Km 99.0 (Design Km 65.810 to Km 91.928 of Length: 26.118 km for execution on EPC Mode in the State of Arunachal Pradesh under Arunachal Pradesh package of SARDP-NE

Client:  **GOVERNMENT OF INDIA**
NATIONAL HIGHWAY INFRASTRUCTURE DEVELOPMENT CORPORATION LTD.

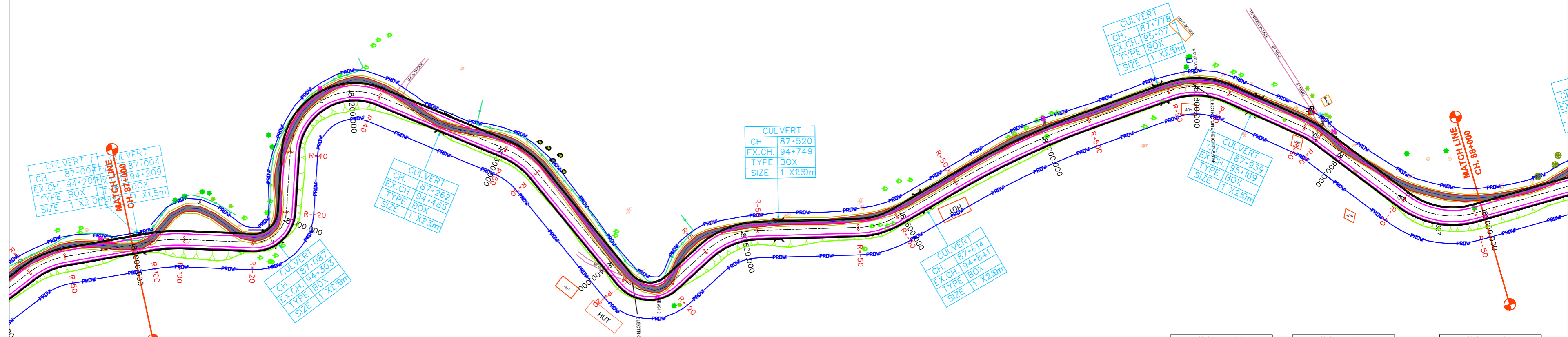
DPR Consultant:  **Theotech Project Services (P) Ltd.**
 Land Surveyors, Consulting Engineers & Contractors
 135, Mohammad Pur, Near Bhikaji Cama Place
 New Delhi-110066

Drawing Title: **FINAL DETAILED PROJECT REPORT**
PLAN & PROFILE KM 86+000 TO Km.87+000
 Scale: 

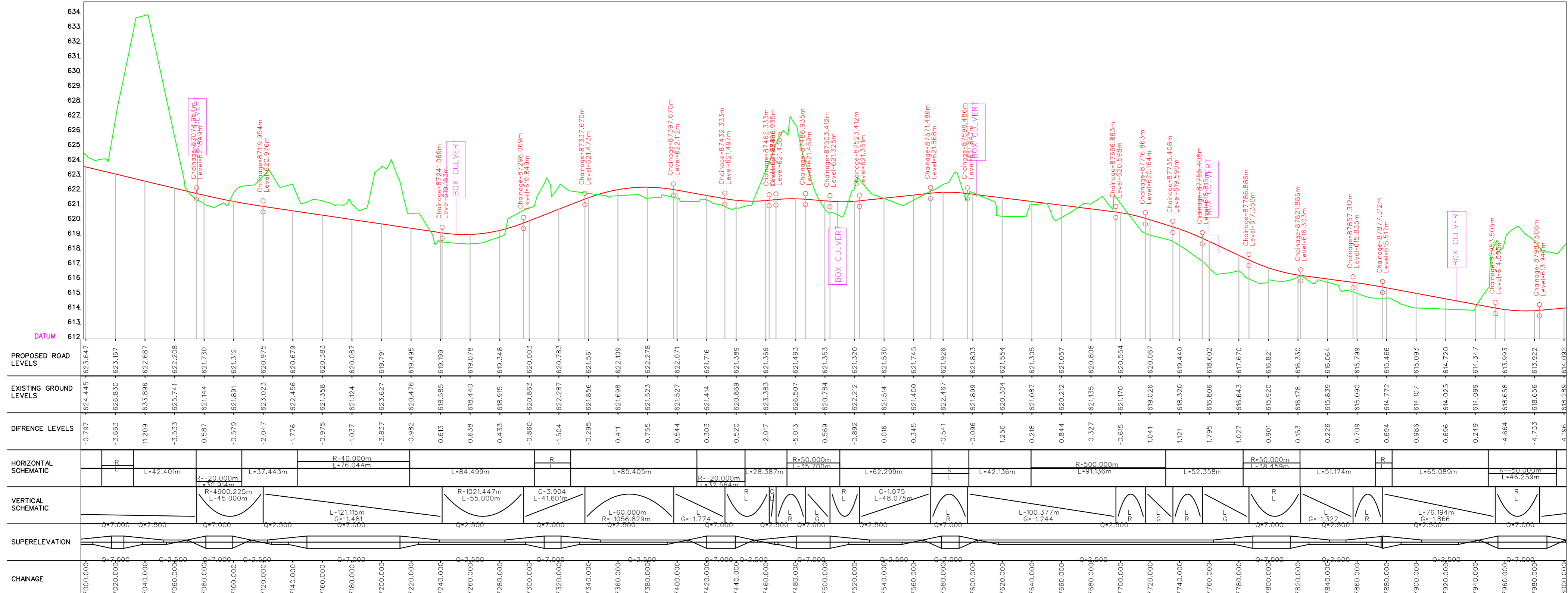
Drawing No.: TSPSP/NHIDCL/P&P/65-97/SP-22	Sheet No.:	Project No.:
Scale: HORIZONTAL : 2000 VERTICAL : 200	Date: 09-01-2017	Revision: NIL
Designed: K.RAJNEES	Drawn: HITESH	Checked: R.DHAR
		Approved: I.S.MANOCHA

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CURVE DETAILS		CURVE DETAILS		CURVE DETAILS		CURVE DETAILS		CURVE DETAILS		CURVE DETAILS		CURVE DETAILS		CURVE DETAILS	
No.	HIP	No.	HIP	No.	HIP	No.	HIP	No.	HIP	No.	HIP	No.	HIP	No.	HIP
212	87+021.538	213	87+094.129	214	87+198.981	215	87+316.001	216	87+434.567	217	87+492.985	218	87+585.088	219	87+685.140
V (KMPH)	50	V (KMPH)	20	V (KMPH)	30	V (KMPH)	40	V (KMPH)	20	V (KMPH)	40	V (KMPH)	50	V (KMPH)	40
R (m)	100	R (m)	-20	R (m)	40	R (m)	50	R (m)	-20	R (m)	50	R (m)	-50	R (m)	50
Lc (m)	21.454	Lc (m)	30.914	Lc (m)	76.044	Lc (m)	24.455	Lc (m)	32.564	Lc (m)	35.700	Lc (m)	24.975	Lc (m)	38.459
Ls (m)	0	Ls (m)	0	Ls (m)	0	Ls (m)	0	Ls (m)	0	Ls (m)	0	Ls (m)	0	Ls (m)	0
Delta	12° 17' 31.8"	Delta	88° 33' 40.0"	Delta	108° 55' 28.7"	Delta	28° 17' 26.1"	Delta	93° 17' 25.4"	Delta	40° 54' 31.5"	Delta	28° 37' 10.4"	Delta	10° 26' 36.1"
e (%)	10.768	e (%)	19.504	e (%)	56.000	e (%)	12.477	e (%)	21.183	e (%)	18.649	e (%)	12.754	e (%)	45.694
Ts (m)	0.578	Ts (m)	7.936	Ts (m)	28.819	Ts (m)	1.533	Ts (m)	9.133	Ts (m)	3.365	Ts (m)	1.601	Ts (m)	2.084
Es (m)		Es (m)		Es (m)		Es (m)		Es (m)		Es (m)		Es (m)		Es (m)	



Project:
 Consultancy Services for preparation of Feasibility Study and Detailed Project Report for Two laning of Akajan-Likabali-Bame Road from Existing Km 71.0 to Km 99.0 (Design Km 65.810 to Km 91.928 of Length: 26.118 km for execution on EPC Mode in the State of Arunachal Pradesh under Arunachal Pradesh package of SARDP-NE

Client:

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DPR Consultant:

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 Land Surveyors, Consulting Engineers & Contractors
 135, Mohammad Pur, Near Bhikajji Cama Place
 New Delhi-110066

Drawing Title:
FINAL DETAILED PROJECT REPORT
PLAN & PROFILE KM 87+000 TO Km.88+000
 Scale:
 -10mm 5 00 1cm 2cm 3cm 4cm 5cm
 10m 5 00 10m 20m 30m 40m 50m

Drawing No.:	TPSP/NHIDCL/P&P/65-97/SP-23	Sheet No.:	1551
Scale:	HORIZONTAL : 2000 VERTICAL : 200	Date:	09-01-2017
Designed:	K.RAJNEES	Drawn:	HITESH
Checked:	R.DHAR	Approved:	I.S.MANOCHA

← LIKABALI

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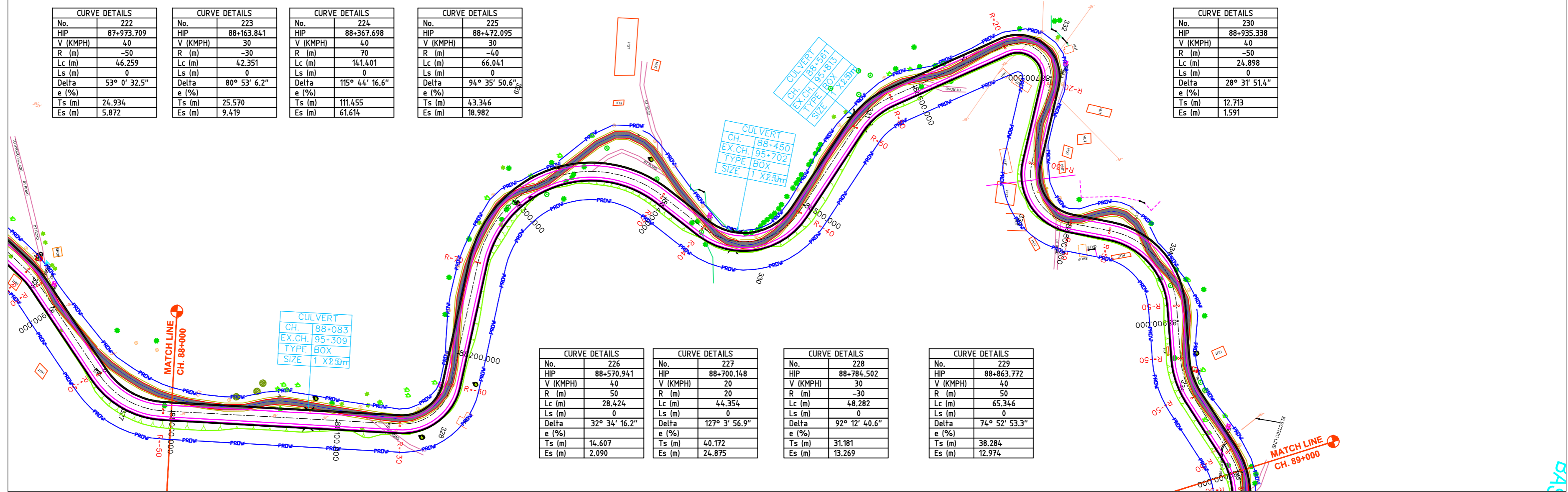
CURVE DETAILS	
No.	222
HIP	87+973.709
V (KMPH)	40
R (m)	-50
Lc (m)	46.259
Ls (m)	0
Delta	53° 0' 32.5"
e (%)	
Ts (m)	24.934
Es (m)	5.872

CURVE DETAILS	
No.	223
HIP	88+163.841
V (KMPH)	30
R (m)	-30
Lc (m)	42.351
Ls (m)	0
Delta	80° 53' 6.2"
e (%)	
Ts (m)	25.570
Es (m)	9.419

CURVE DETAILS	
No.	224
HIP	88+367.698
V (KMPH)	40
R (m)	70
Lc (m)	141.401
Ls (m)	0
Delta	115° 44' 16.6"
e (%)	
Ts (m)	111.455
Es (m)	61.614

CURVE DETAILS	
No.	225
HIP	88+472.095
V (KMPH)	30
R (m)	-40
Lc (m)	66.041
Ls (m)	0
Delta	94° 35' 50.6"
e (%)	
Ts (m)	43.346
Es (m)	18.982

CURVE DETAILS	
No.	230
HIP	88+935.338
V (KMPH)	40
R (m)	-50
Lc (m)	24.898
Ls (m)	0
Delta	28° 31' 51.4"
e (%)	
Ts (m)	12.713
Es (m)	1.591

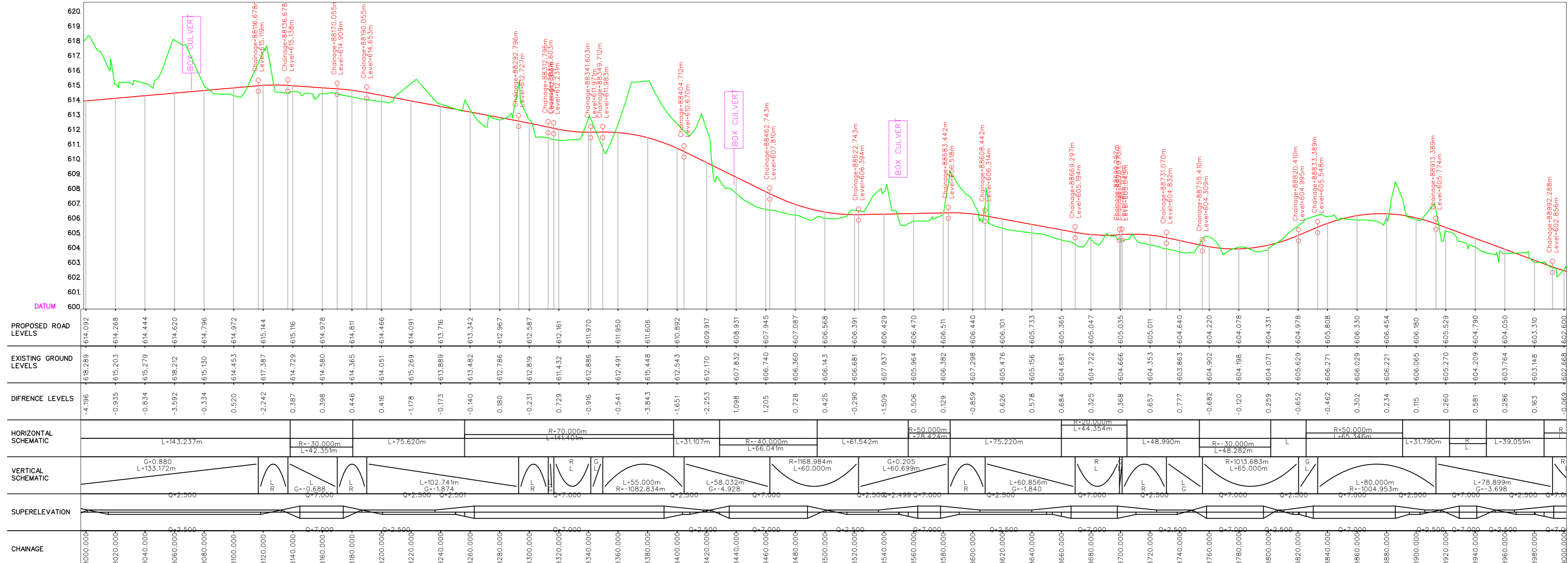


CURVE DETAILS	
No.	226
HIP	88+570.941
V (KMPH)	40
R (m)	50
Lc (m)	28.424
Ls (m)	0
Delta	32° 34' 16.2"
e (%)	
Ts (m)	14.607
Es (m)	2.090

CURVE DETAILS	
No.	227
HIP	88+700.148
V (KMPH)	20
R (m)	20
Lc (m)	44.354
Ls (m)	0
Delta	127° 3' 56.9"
e (%)	
Ts (m)	40.172
Es (m)	24.875

CURVE DETAILS	
No.	228
HIP	88+784.502
V (KMPH)	30
R (m)	-30
Lc (m)	48.282
Ls (m)	0
Delta	92° 12' 40.6"
e (%)	
Ts (m)	31.181
Es (m)	13.269

CURVE DETAILS	
No.	229
HIP	88+863.772
V (KMPH)	50
R (m)	50
Lc (m)	65.346
Ls (m)	0
Delta	74° 52' 53.3"
e (%)	
Ts (m)	38.284
Es (m)	12.974



Project:
 Consultancy Services for preparation of Feasibility Study and Detailed Project Report for Two laning of Akajan-Likabali-Bame Road from Existing Km 71.0 to Km 99.0 (Design Km 65.810 to Km 91.928 of Length: 26.118 km for execution on EPC Mode in the State of Arunachal Pradesh under Arunachal Pradesh package of SARDP-NE

Client:

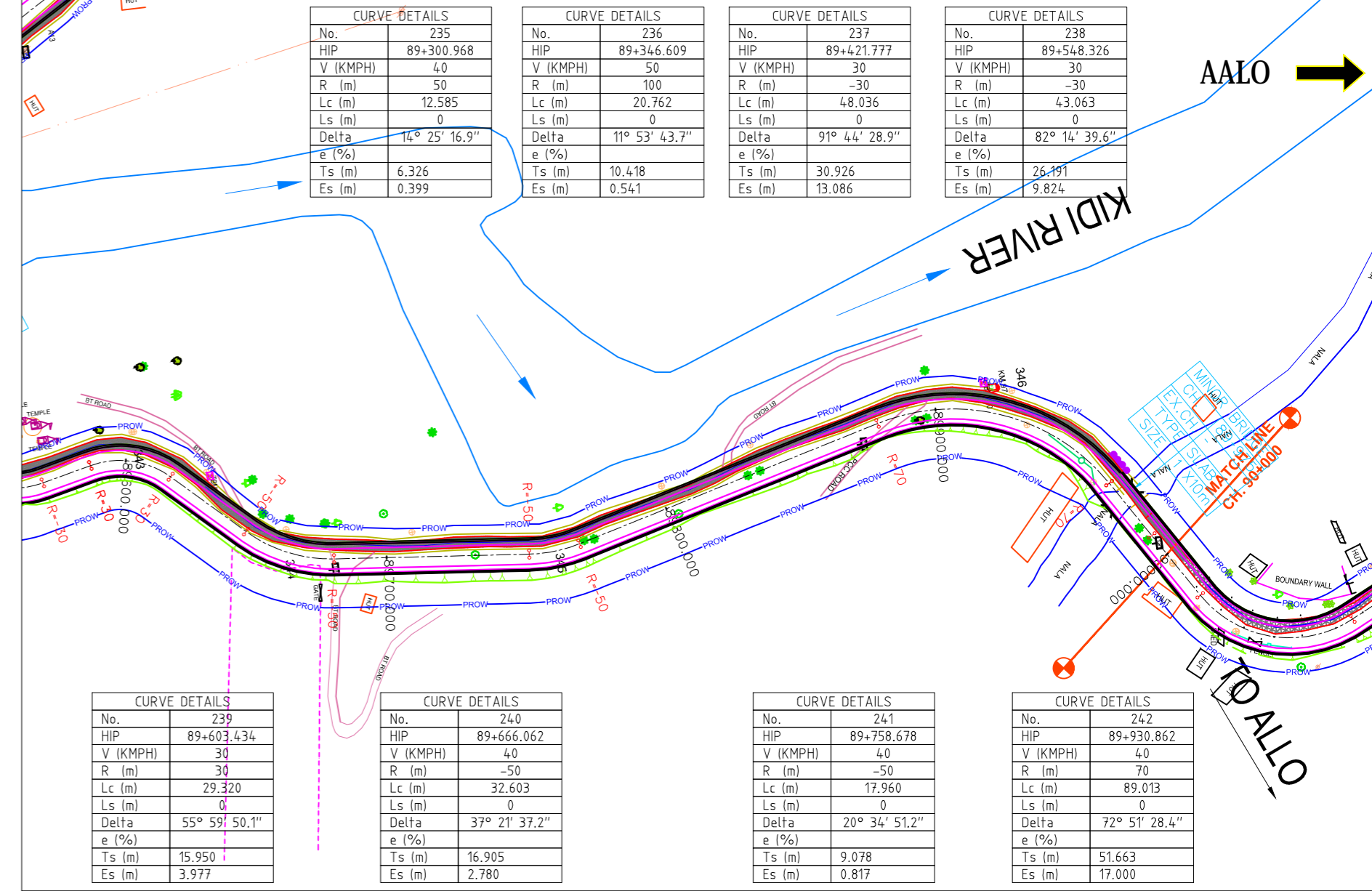
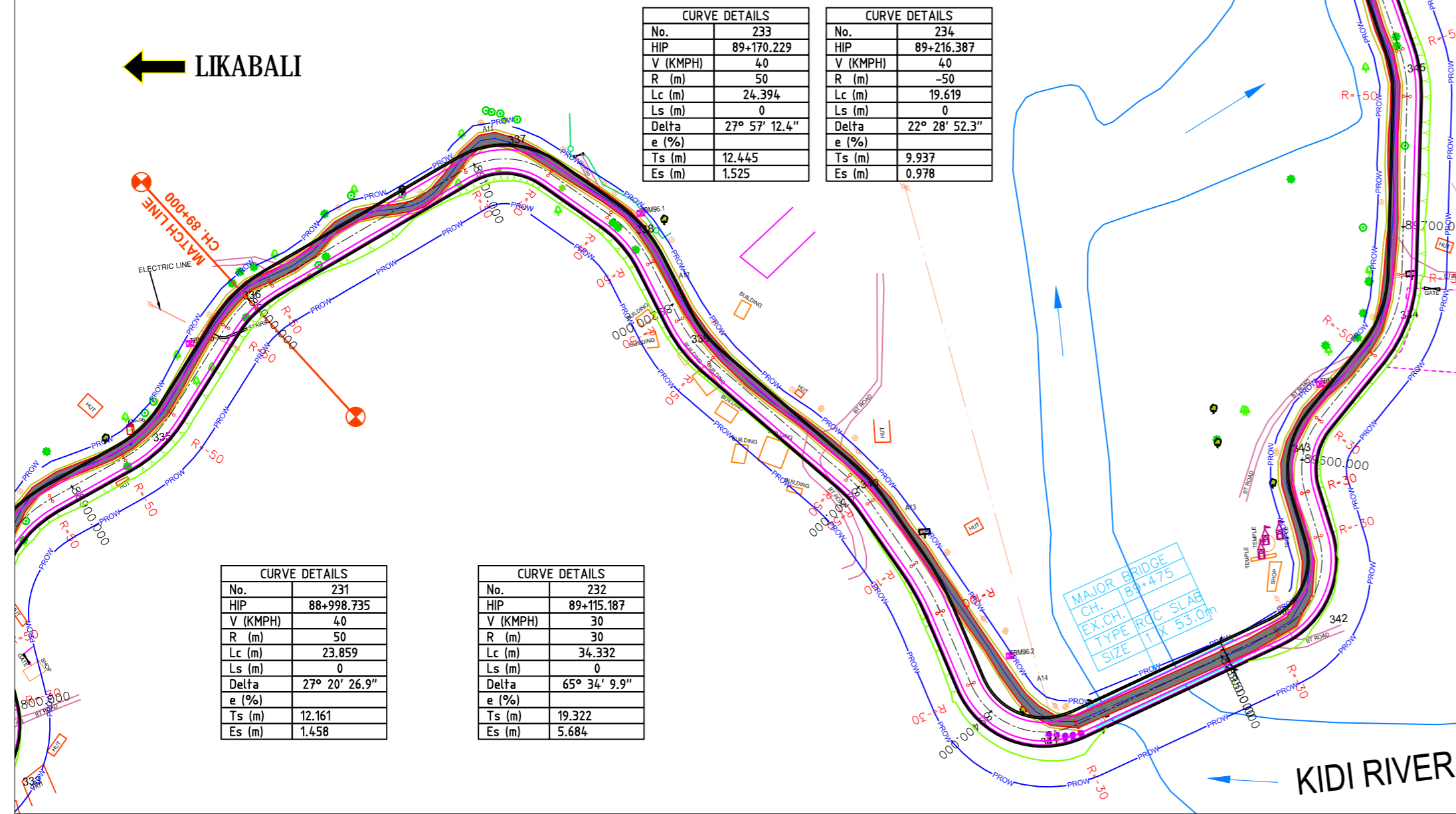
 GOVERNMENT OF INDIA
 NATIONAL HIGHWAY INFRASTRUCTURE DEVELOPMENT CORPORATION LTD.

DPR Consultant:

Theotech Project Services (P) Ltd.
 Land Surveyors, Consulting Engineers & Contractors
 135, Mohammad Pur, Near Bhikaji Cama Place
 New Delhi-110066
 www.theotechindia.com

Drawing Title:
FINAL DETAILED PROJECT REPORT
PLAN & PROFILE KM 88+000 TO Km.89+000
 Scale:
 -10mm 5 00 1cm 2cm 3cm 4cm 5 cm
 10m 5 00 10m 20m 30m 40m 50m

Drawing No.:	TPSP/NHIDCL/P&P/65-97/SP-24	Sheet No.:	1551	Project No.:	1551
Scale:	HORIZONTAL : 2000 VERTICAL : 200	Date:	09-01-2017	Revision:	NIL
Designed:	K.RAJNEES	Drawn:	HITESH	Checked:	R.DHAR
Approved:		Original Size:	A2	Approved:	I.S.MANOCHA



CURVE DETAILS	
No.	233
HIP	89+170.229
V (KMPH)	40
R (m)	50
Lc (m)	24.394
Ls (m)	0
Delta	27° 57' 12.4"
e (%)	12.445
Ts (m)	1.525
Es (m)	1.525

CURVE DETAILS	
No.	234
HIP	89+216.387
V (KMPH)	40
R (m)	-50
Lc (m)	19.619
Ls (m)	0
Delta	22° 28' 52.3"
e (%)	9.937
Ts (m)	0.978
Es (m)	0.978

CURVE DETAILS	
No.	235
HIP	89+300.968
V (KMPH)	40
R (m)	50
Lc (m)	12.585
Ls (m)	0
Delta	14° 25' 16.9"
e (%)	6.326
Ts (m)	0.399
Es (m)	0.399

CURVE DETAILS	
No.	236
HIP	89+346.609
V (KMPH)	50
R (m)	100
Lc (m)	20.762
Ls (m)	0
Delta	11° 53' 43.7"
e (%)	10.418
Ts (m)	0.541
Es (m)	0.541

CURVE DETAILS	
No.	237
HIP	89+421.777
V (KMPH)	30
R (m)	-30
Lc (m)	48.036
Ls (m)	0
Delta	91° 44' 28.9"
e (%)	30.926
Ts (m)	13.086
Es (m)	13.086

CURVE DETAILS	
No.	238
HIP	89+548.326
V (KMPH)	30
R (m)	-30
Lc (m)	43.063
Ls (m)	0
Delta	82° 14' 39.6"
e (%)	26.191
Ts (m)	9.824
Es (m)	9.824

CURVE DETAILS	
No.	231
HIP	88+998.735
V (KMPH)	40
R (m)	50
Lc (m)	23.859
Ls (m)	0
Delta	27° 20' 26.9"
e (%)	12.161
Ts (m)	1.458
Es (m)	1.458

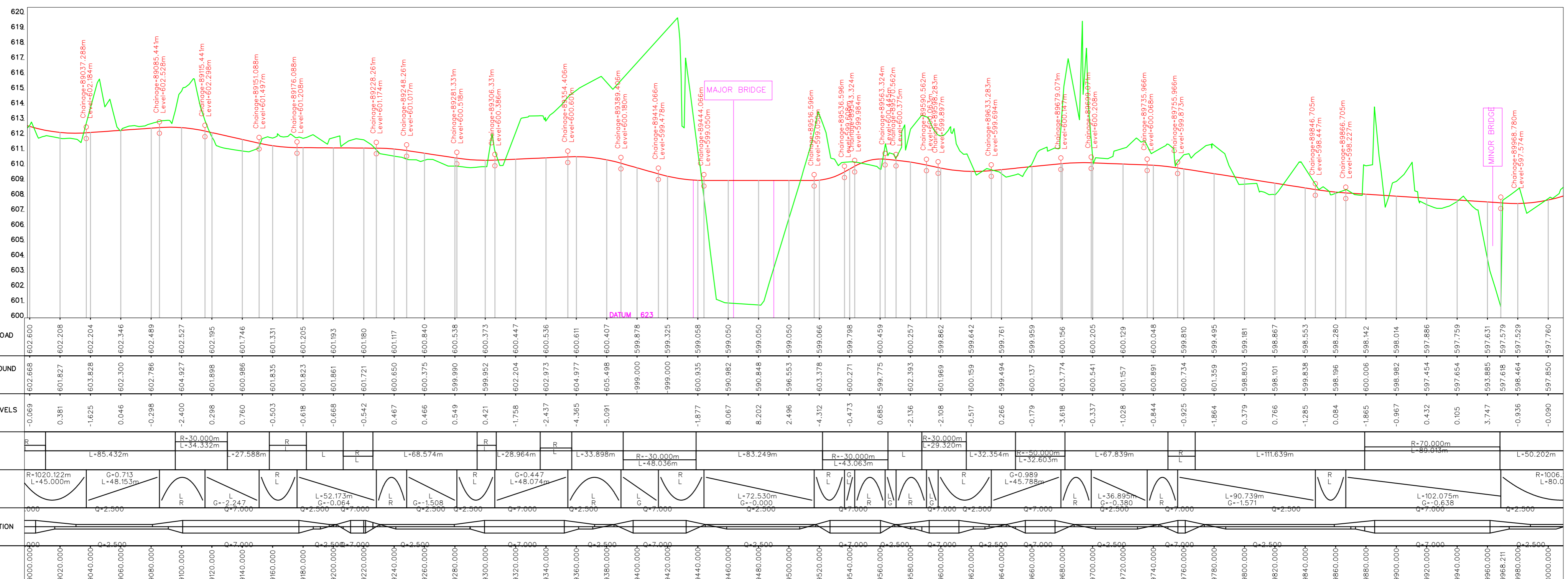
CURVE DETAILS	
No.	232
HIP	89+115.187
V (KMPH)	30
R (m)	30
Lc (m)	34.332
Ls (m)	0
Delta	65° 34' 9.9"
e (%)	19.322
Ts (m)	5.684
Es (m)	5.684

CURVE DETAILS	
No.	239
HIP	89+603.434
V (KMPH)	30
R (m)	30
Lc (m)	29.320
Ls (m)	0
Delta	55° 59' 50.1"
e (%)	15.950
Ts (m)	3.977
Es (m)	3.977

CURVE DETAILS	
No.	240
HIP	89+666.062
V (KMPH)	40
R (m)	-50
Lc (m)	32.603
Ls (m)	0
Delta	37° 21' 37.2"
e (%)	16.905
Ts (m)	2.780
Es (m)	2.780

CURVE DETAILS	
No.	241
HIP	89+758.678
V (KMPH)	40
R (m)	-50
Lc (m)	17.960
Ls (m)	0
Delta	20° 34' 51.2"
e (%)	9.078
Ts (m)	0.817
Es (m)	0.817

CURVE DETAILS	
No.	242
HIP	89+930.862
V (KMPH)	40
R (m)	70
Lc (m)	89.013
Ls (m)	0
Delta	72° 51' 28.4"
e (%)	51.663
Ts (m)	17.000
Es (m)	17.000



Project: Consultancy Services for preparation of Feasibility Study and Detailed Project Report for Two laning of Akajan-Likabali-Bame Road from Existing Km 71.0 to Km 99.0 (Design Km 65.810 to Km 91.928 of Length: 26.118 km for execution on EPC Mode in the State of Arunachal Pradesh under Arunachal Pradesh package of SARDP-NE

Client: GOVERNMENT OF INDIA
 NATIONAL HIGHWAY INFRASTRUCTURE DEVELOPMENT CORPORATION LTD.

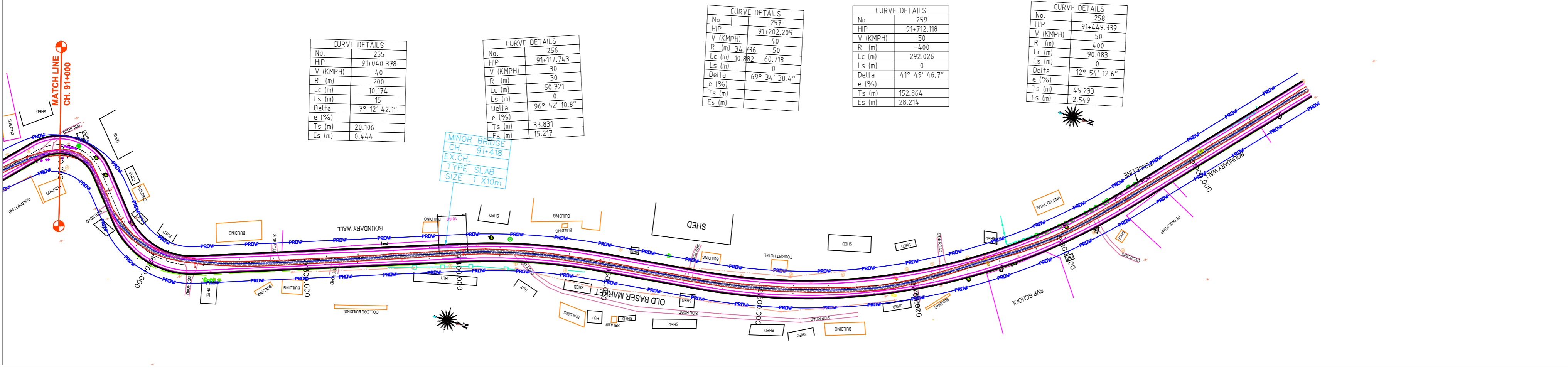
DPR Consultant: Theotech Project Services (P) Ltd.
 Land Surveyors, Consulting Engineers & Contractors
 135, Mohammad Pur, Near Bhikaji Cama Place
 New Delhi-110066

Drawing Title: FINAL DETAILED PROJECT REPORT
 PLAN & PROFILE KM 89+000 TO Km.90+000
 Scale: 10m 5 00 10m 20m 30m 40m 50m

Drawing No.: TPSP/NHIDCL/P&P/65-97/SP-25	Sheet No.:	Project No.:
Scale: HORIZONTAL : 2000 VERTICAL : 200	Date: 09-01-2017	Revision: NIL
Designed: K.RAJNEES	Drawn: HITESH	Checked: R.DHAR
		Approved: I.S.MANOCHA

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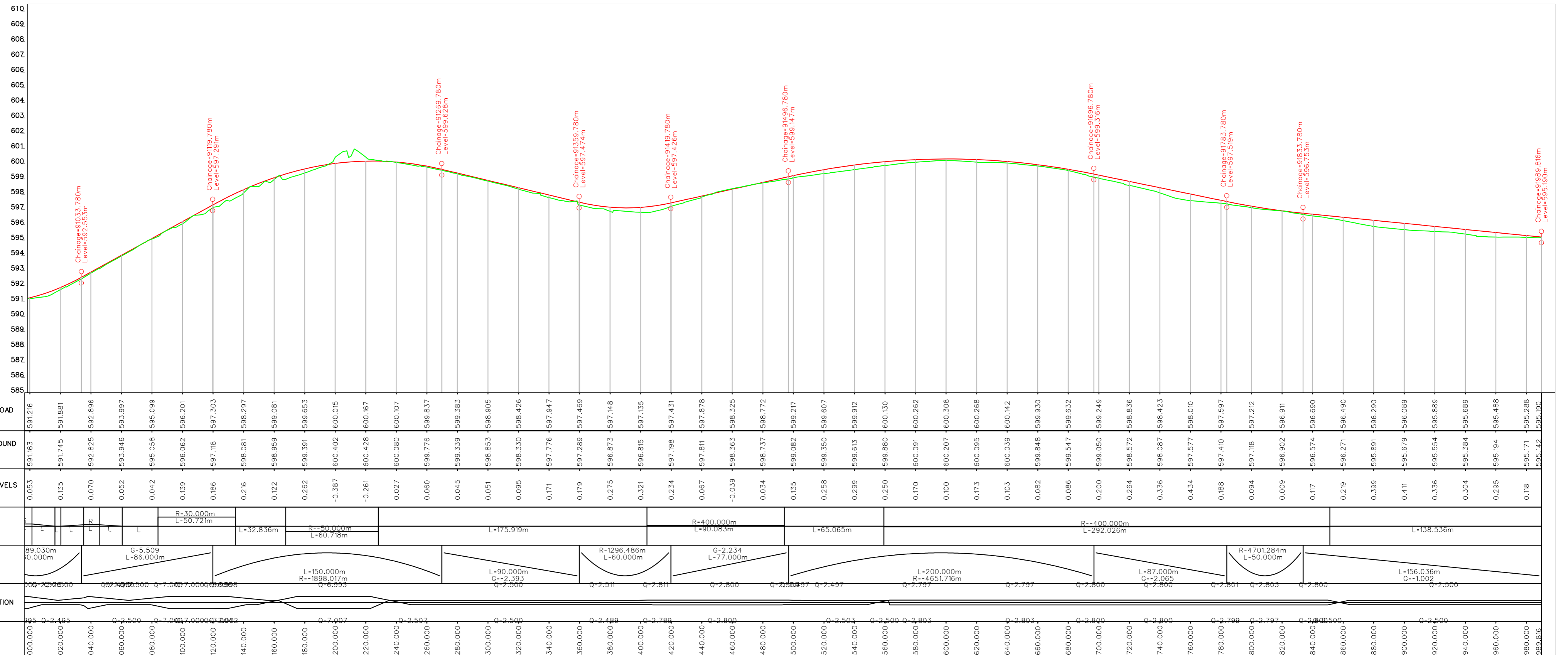
CURVE DETAILS	
No.	255
HIP	91+040.378
V (KMPH)	40
R (m)	200
Lc (m)	10.174
Ls (m)	15
Delta	7° 12' 42.1"
e (%)	
Ts (m)	20.106
Es (m)	0.444

CURVE DETAILS	
No.	256
HIP	91+117.743
V (KMPH)	30
R (m)	30
Lc (m)	50.721
Ls (m)	15
Delta	96° 52' 10.8"
e (%)	
Ts (m)	33.831
Es (m)	15.217

CURVE DETAILS	
No.	257
HIP	91+202.205
V (KMPH)	40
R (m)	34.736
Lc (m)	10.882
Ls (m)	0
Delta	69° 34' 38.4"
e (%)	
Ts (m)	
Es (m)	

CURVE DETAILS	
No.	259
HIP	91+712.118
V (KMPH)	50
R (m)	-400
Lc (m)	292.026
Ls (m)	0
Delta	41° 49' 46.7"
e (%)	
Ts (m)	152.864
Es (m)	28.214

CURVE DETAILS	
No.	258
HIP	91+449.339
V (KMPH)	50
R (m)	400
Lc (m)	90.083
Ls (m)	0
Delta	12° 54' 12.6"
e (%)	
Ts (m)	45.233
Es (m)	2.549



Project: Consultancy Services for preparation of Feasibility Study and Detailed Project Report for Two laning of Akajan-Likabali-Bame Road from Existing Km 71.0 to Km 99.0 (Design Km 65.810 to Km 91.928 of Length: 26.118 km for execution on EPC Mode in the State of Arunachal Pradesh under Arunachal Pradesh package of SARDP-NE	Client:  GOVERNMENT OF INDIA NATIONAL HIGHWAY INFRASTRUCTURE DEVELOPMENT CORPORATION LTD.	DPR Consultant:  Theotech Project Services (P) Ltd. Land Surveyors, Consulting Engineers & Contractors 135, Mohammad Pur, Near Bhikaji Cama Place New Delhi-110066	Drawing Title: FINAL DETAILED PROJECT REPORT PLAN & PROFILE KM 91+000 TO Km.91+928	Drawing No.: TPSP/NHIDCL/P&P/65-97/SP-27	Sheet No.: 1551	Project No.: 1551
				Scale: HORIZONTAL : 2000 VERTICAL : 200	Date: 09-01-2017	Revision: NIL
		Scale: -10mm 5 00 1cm 2cm 3cm 4cm 5 cm 10m 5 00 10m 20m 30m 40m 50m	Designed: K.RAJNEES	Drawn: HITESH	Checked: R.DHAR	Approved: I.S.MANOCHA