



GOVERNMENT OF NEPAL
MINISTRY OF PHYSICAL INFRASTRUCTURE AND TRANSPORT

DEPARTMENT OF ROADS
DEVELOPMENT COOPERATION IMPLEMENTATION DIVISION
NEPAL INDIA REGIONAL TRADE AND TRANSPORT PROJECT (NIRTTP)
(IDA CREDIT NO. 5273 - NEP)

Detailed Design of Improvement of
Kathmandu (Nagdhunga)-Naubise-Mugling Road and Bridges

Final Design Report

Modified Volume-V(A) : ROAD DRAWINGS (PLAN & PROFILE)

Package-II (Naubise - Malekhu)
Ch. 0+000.00 to Ch. 43+542.00

AUGUST 2019

DESIGN
CONSULTANT:



Intercontinental Consultants and Technocrats Pvt. Ltd.
A-8, Green Park, New Delhi - 110016, INDIA

*in Joint Venture
with*



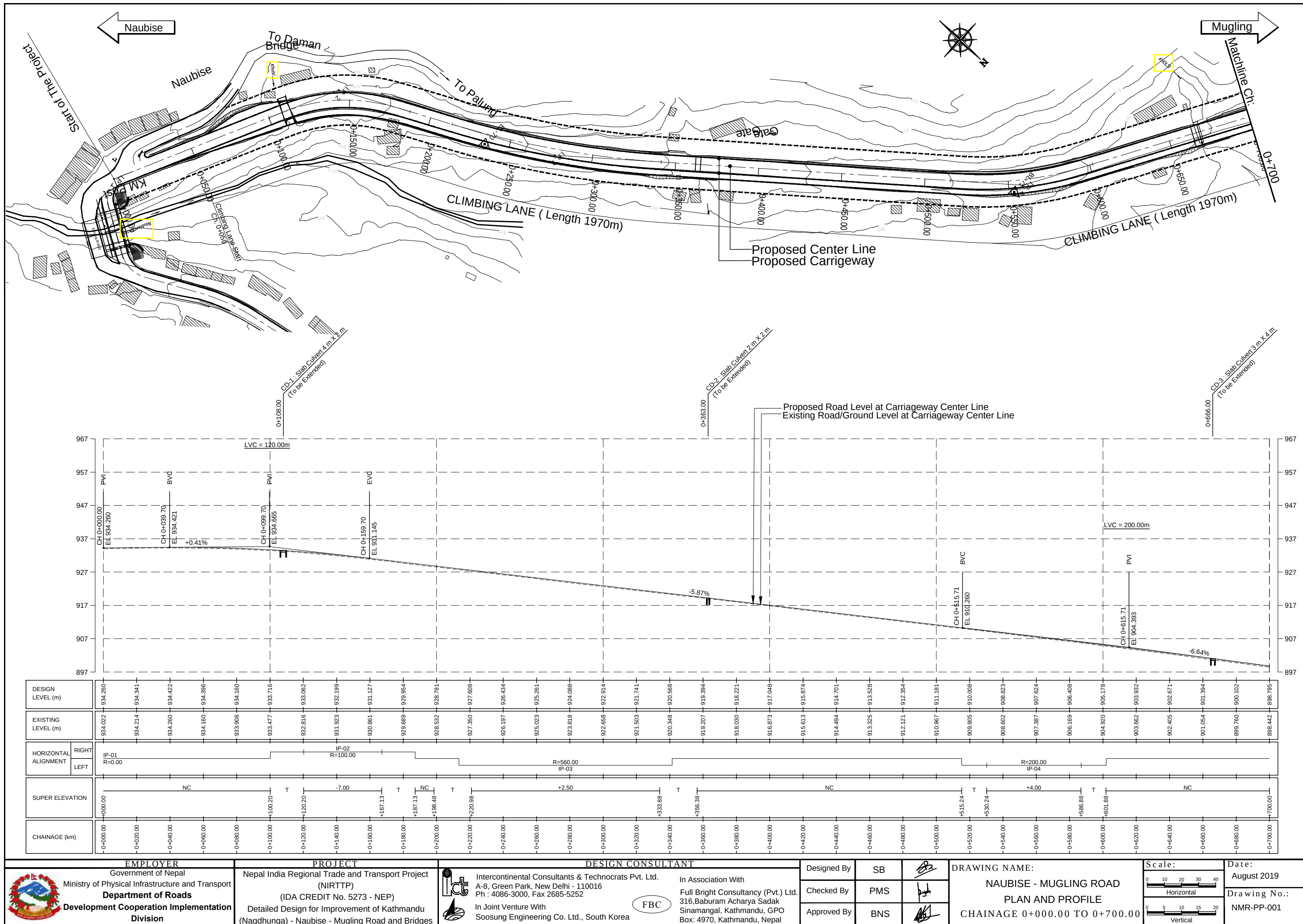
Soosung Engineering Co. Ltd.,
South Korea

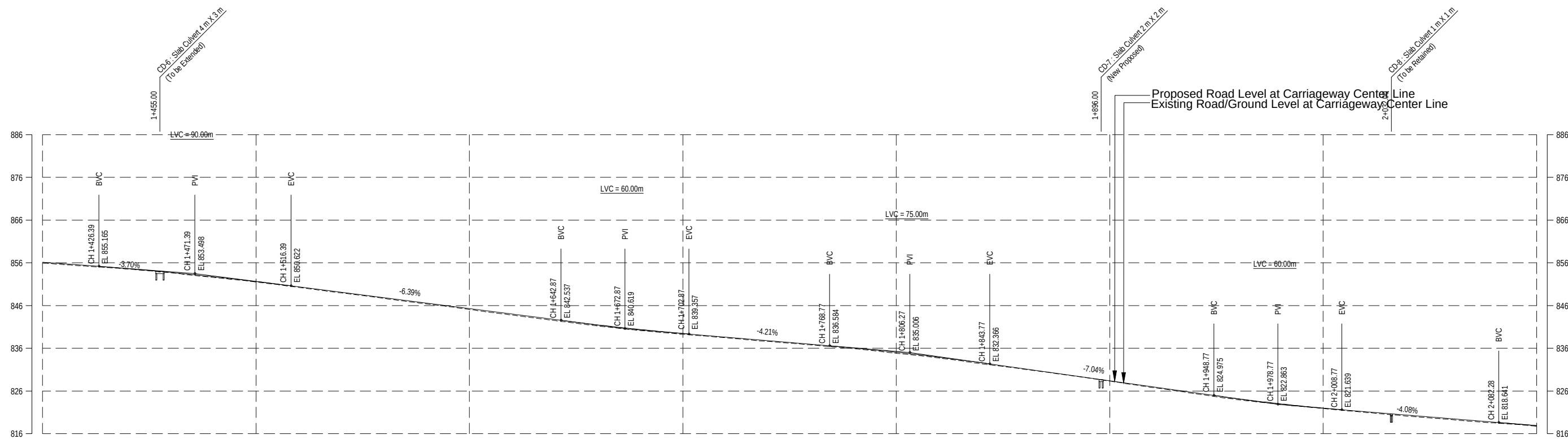
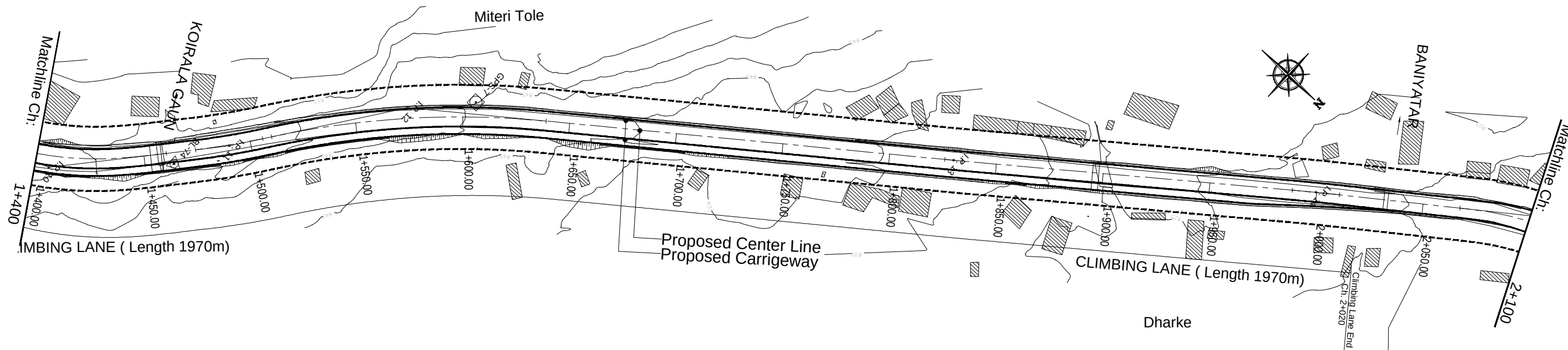
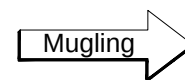
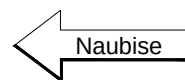
*in association
with*



Full Bright Consultancy (Pvt.) Ltd.,
Kathmandu, Nepal

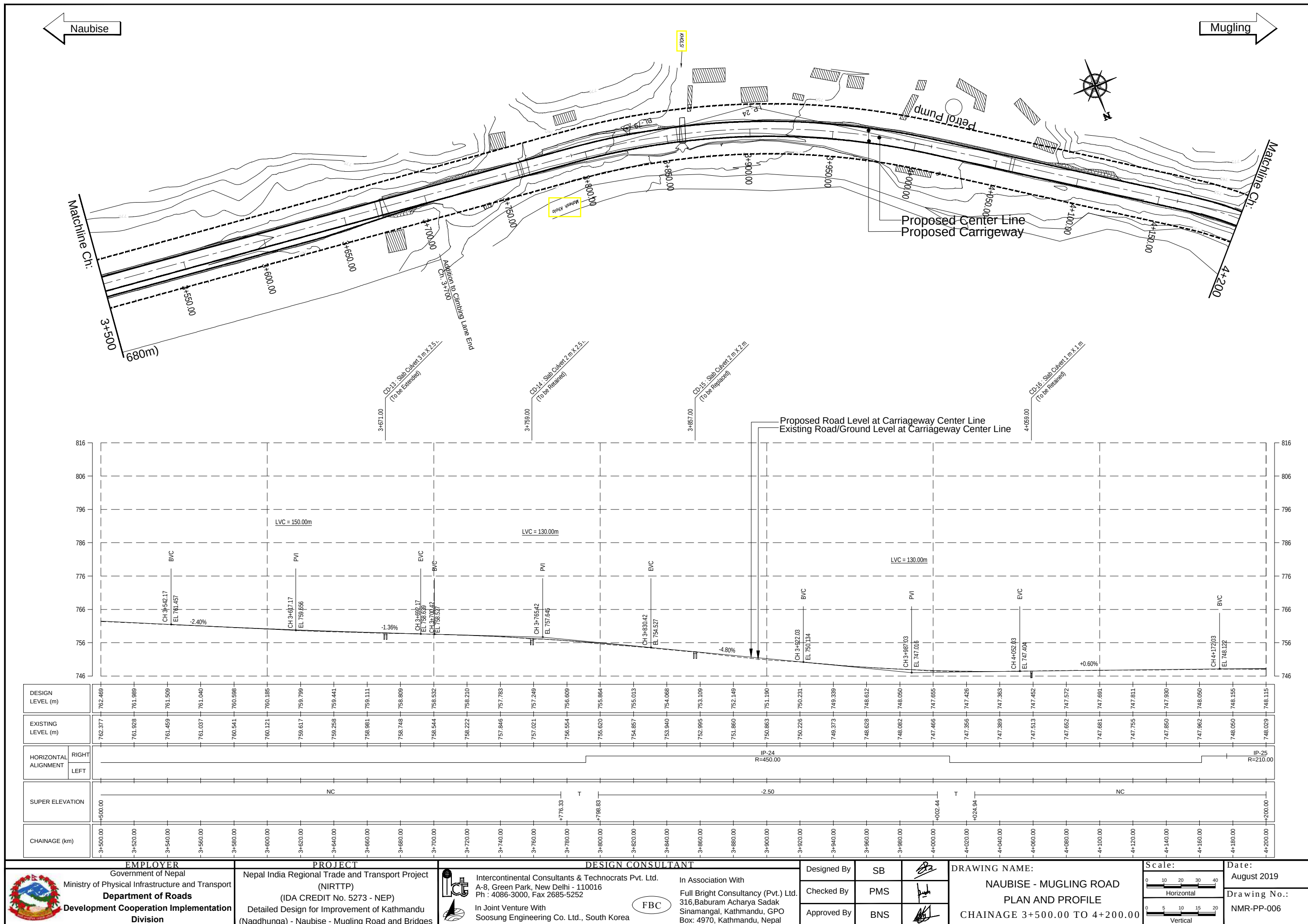
PLAN AND PROFILE





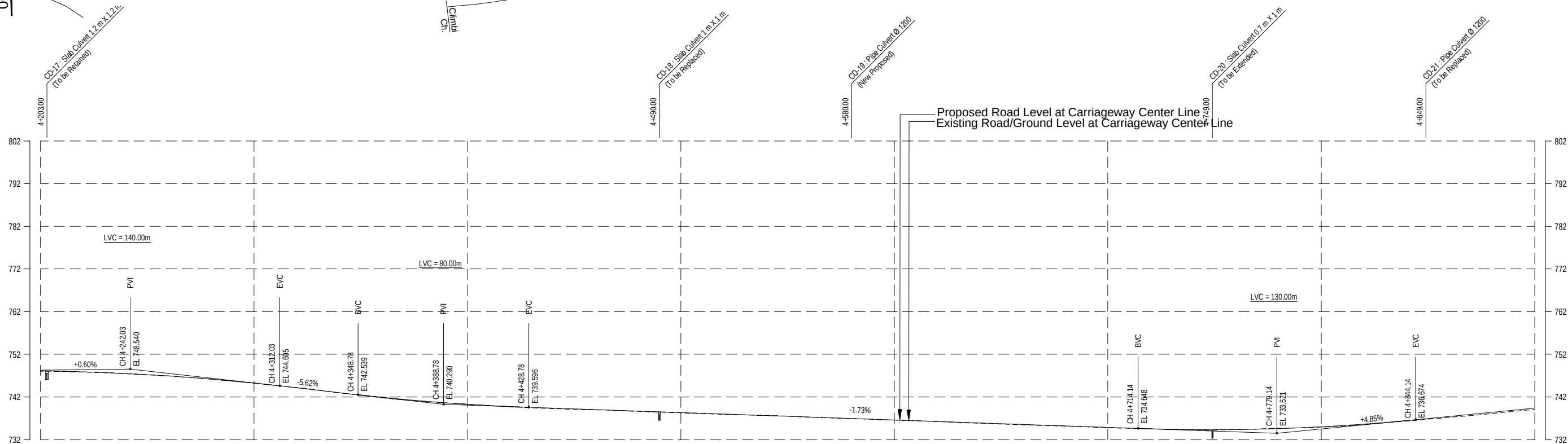
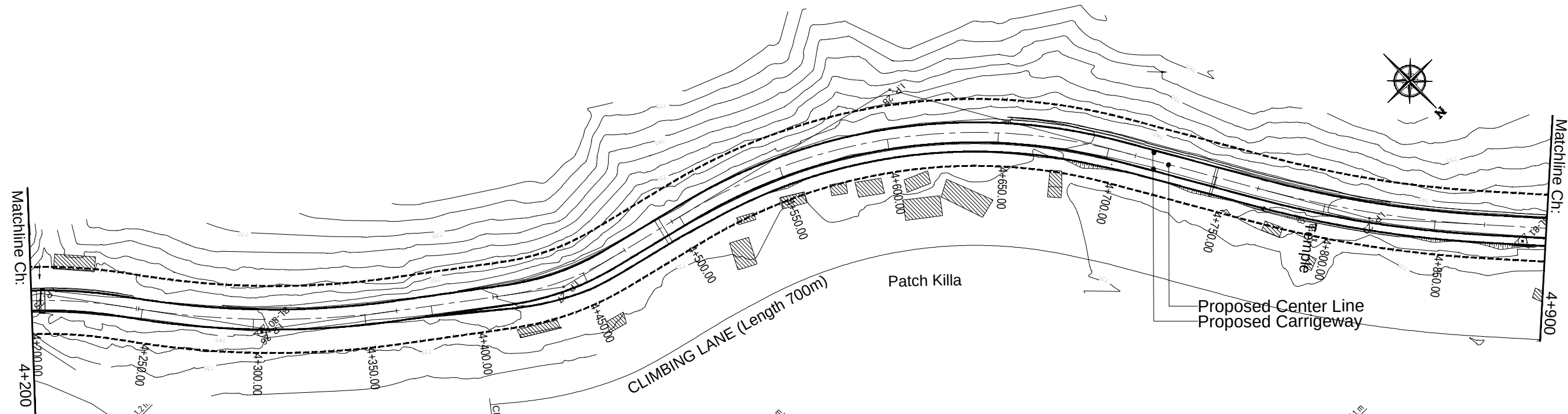
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EXISTING LEVEL (m)		855.943 855.244 854.536 853.666 852.588 851.506 850.235 848.956 847.676 846.385 845.091 843.762 842.477 841.242 840.169 839.275 838.471 837.598 836.791 835.902 834.849 833.725 832.381 831.098 829.734 828.318 826.845 825.388 823.994 822.886 821.926 820.995 820.111 819.320 818.546 817.757																																							
HORIZONTAL ALIGNMENT	RIGHT																																								
	LEFT	R=150.00 IP-10 R=350.00 IP-11 IP-12 R=420.00 R=1000.00 IP-13 IP-14 R=1000.00 IP-15 R=125.00																																							
SUPER ELEVATION		+5.00 +430.47 T +460.47 NC +472.59 +474.84 +2.50 +505.19 +510.95 -2.50 +638.26 +640.51 NC +730.59 T +996.09 +1003.19 T +1025.69 NC +1067.25 T +1082.25 -6.00 +1100.00																																							
CHAINAGE (km)		1+400.00 1+420.00 1+440.00 1+460.00 1+480.00 1+500.00 1+520.00 1+540.00 1+560.00 1+580.00 1+600.00 1+620.00 1+640.00 1+660.00 1+680.00 1+700.00 1+720.00 1+740.00 1+760.00 1+780.00 1+800.00 1+820.00 1+840.00 1+860.00 1+880.00 1+900.00 1+920.00 1+940.00 1+960.00 1+980.00 2+000.00 2+020.00 2+040.00 2+060.00 2+080.00 2+100.00																																							

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	Government of Nepal	Nepal India Regional Trade and Transport Project (NIRTP)	Intercontinental Consultants & Technocrats Pvt. Ltd.	Checked By	PMS			
	Ministry of Physical Infrastructure and Transport	(IDA CREDIT No. 5273 - NEP)	A-8, Green Park, New Delhi - 110016	Approved By	BNS			
	Department of Roads	Detailed Design for Improvement of Kathmandu (Nagdhunga) - Naubise - Mugling Road and Bridges	In Joint Venture With Soosung Engineering Co. Ltd., South Korea					

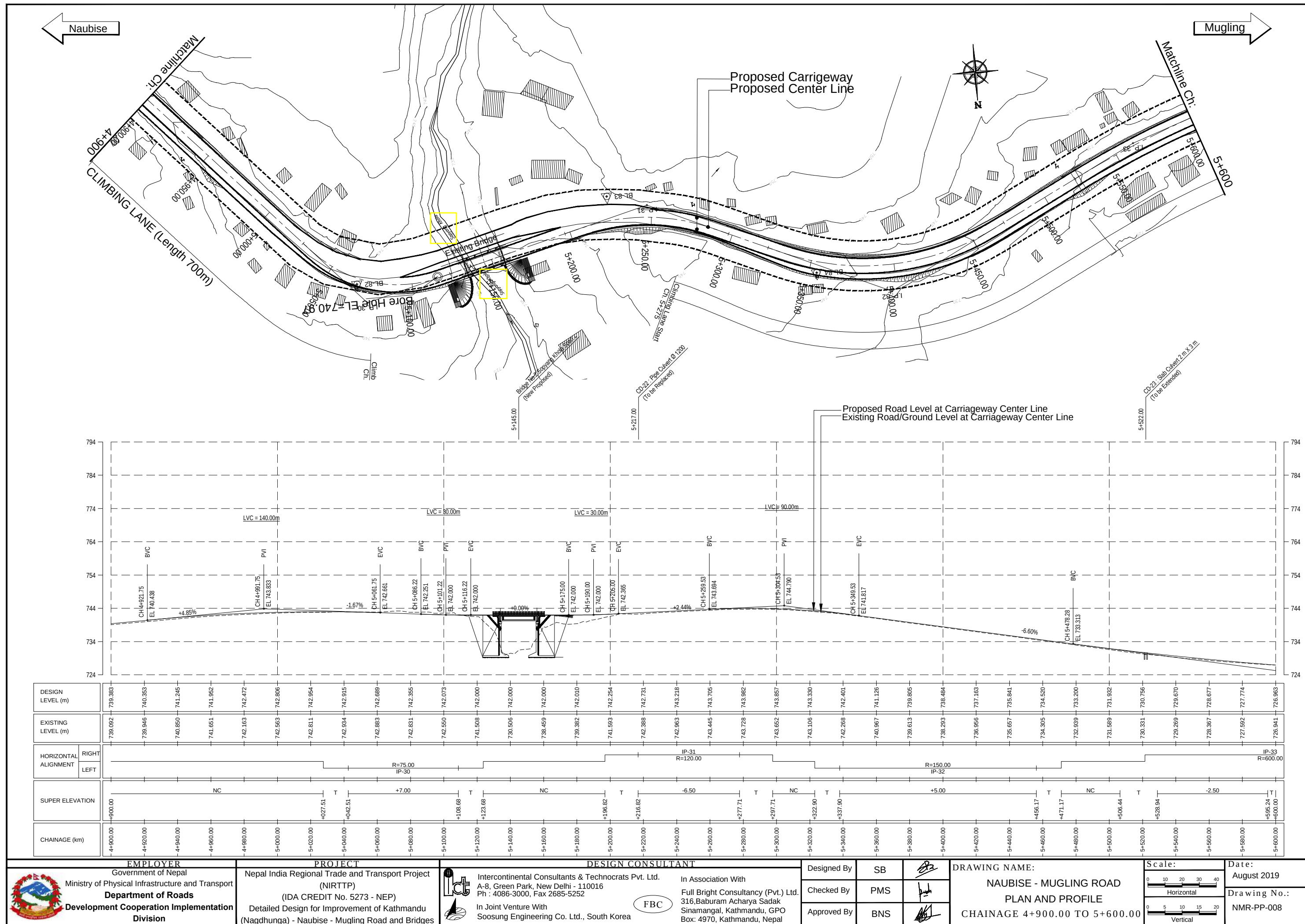


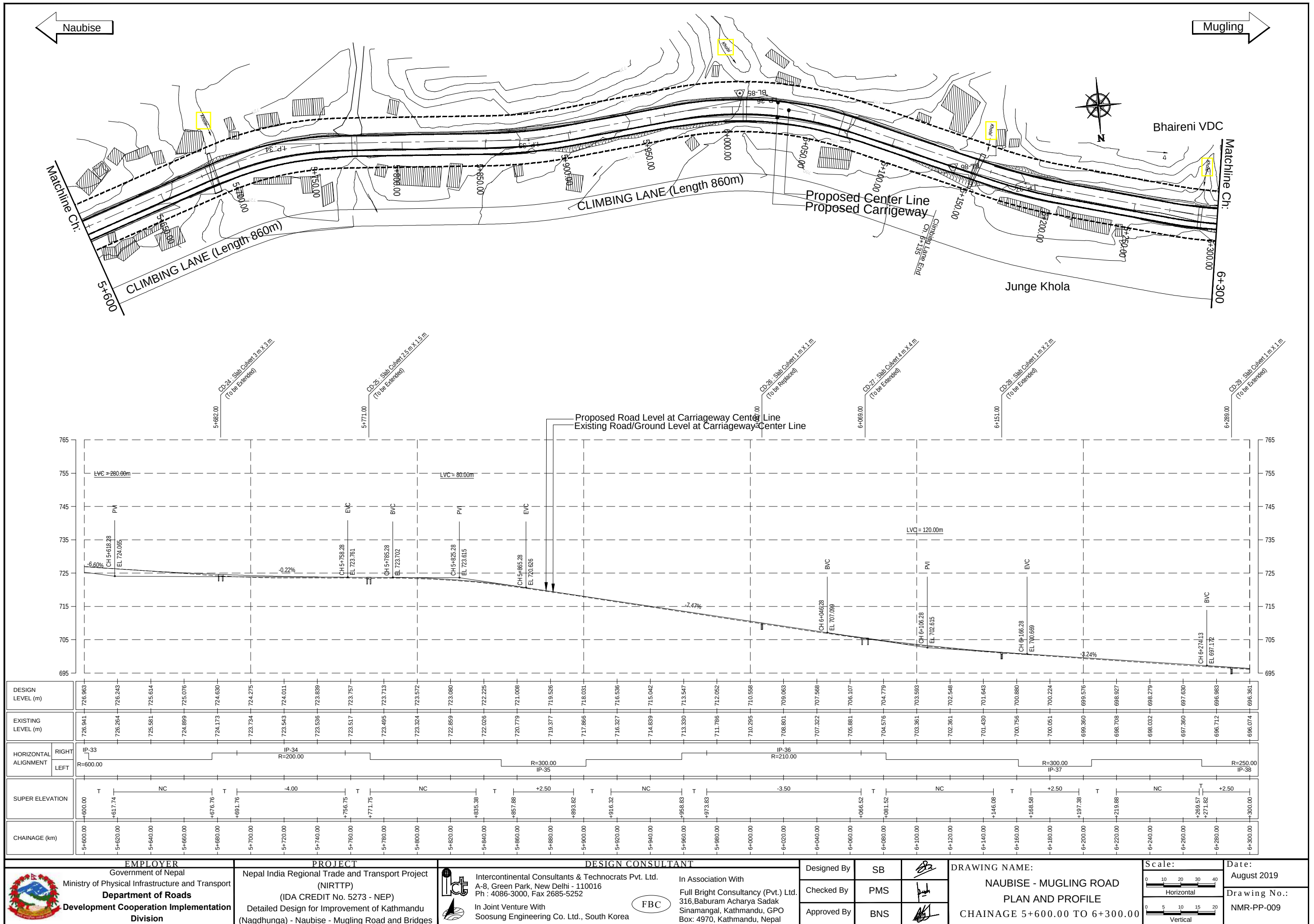
Naubise

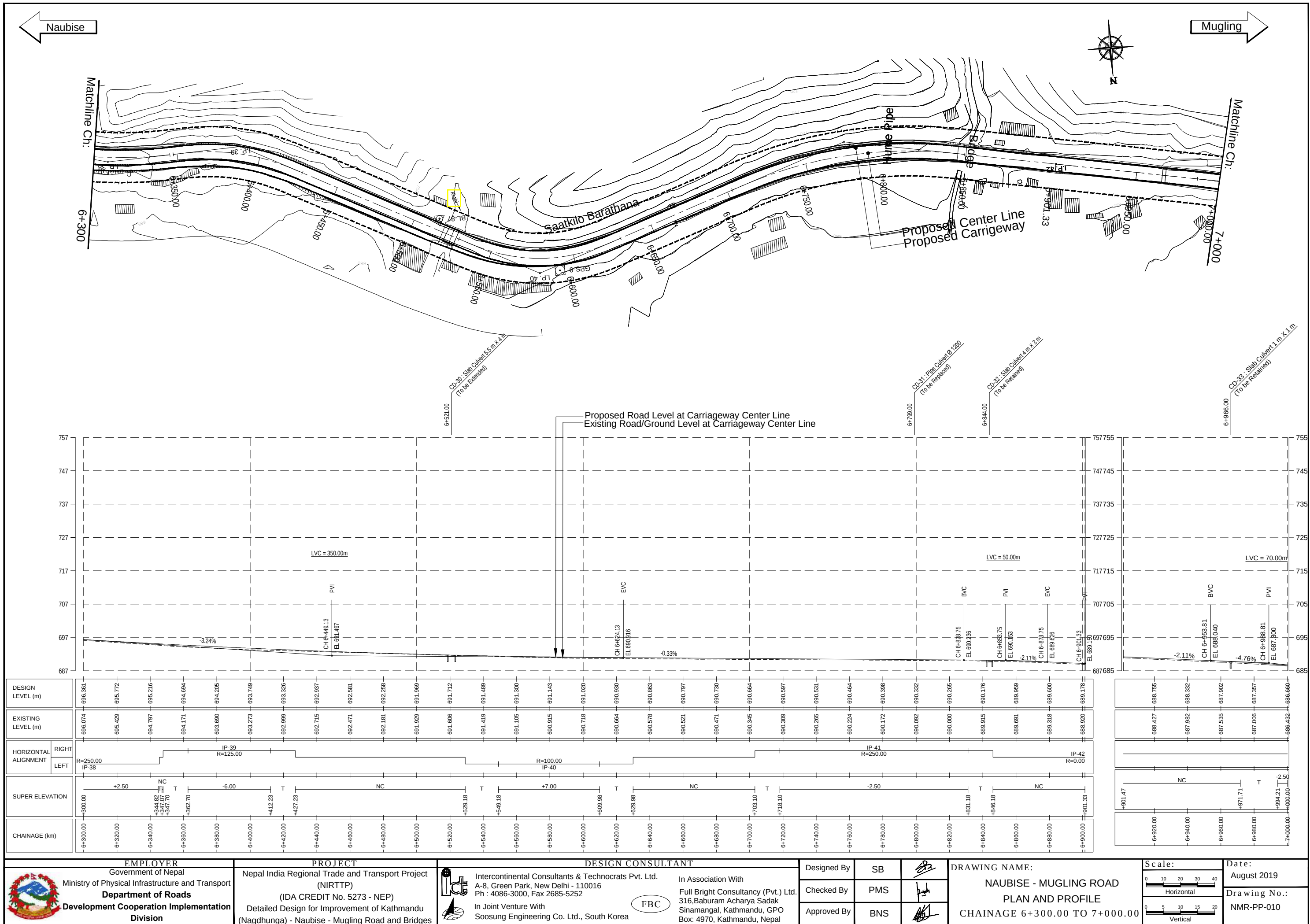
Mugling

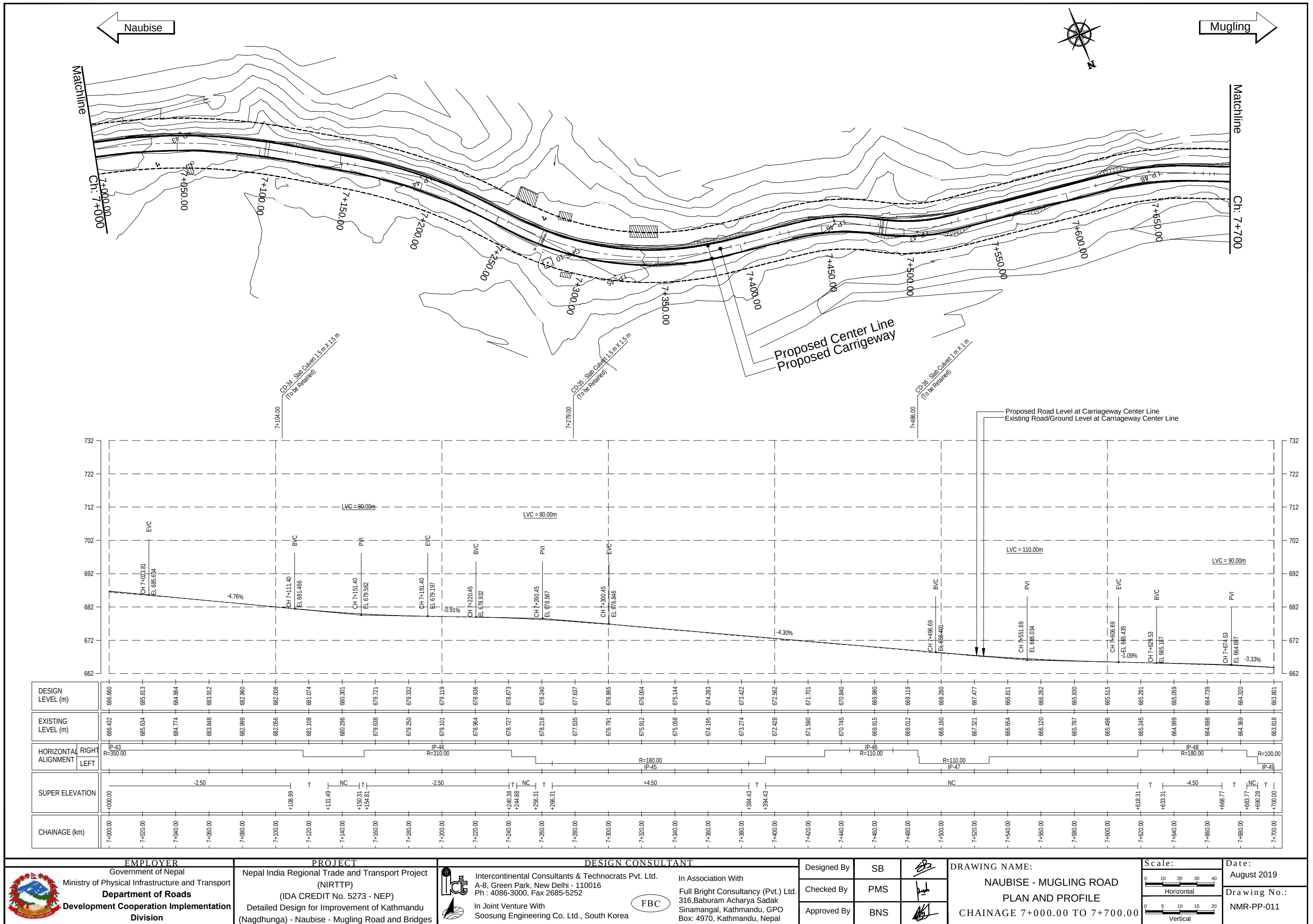


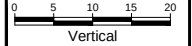
DESIGN LEVEL (m)		748.115	747.897	747.502	746.928	746.178	745.249	744.157	743.032	741.939	741.020	740.297	739.767	739.402	739.055	738.708	738.361	738.015	737.668	737.321	736.974	736.627	736.281	735.934	735.587	735.240	734.893	734.545	734.369	734.385	734.605	735.026	735.650	736.177	737.443	738.413	739.383																								
EXISTING LEVEL (m)		748.029	747.835	747.453	746.938	746.186	745.272	744.232	742.975	741.801	740.921	740.307	739.697	739.279	738.979	738.626	738.272	737.939	737.659	737.274	736.920	736.579	736.235	735.899	735.489	735.172	734.818	734.517	734.293	734.382	734.657	734.950	735.514	736.381	737.225	738.136	739.092																								
HORIZONTAL ALIGNMENT	RIGHT	IP-25 R=210.00																				IP-26 R=390.00										IP-27 R=120.00										IP-28 R=250.00										IP-29 R=500.00									
	LEFT																																																												
SUPER ELEVATION		NC																				+6.50										-2.50										NC										+2.50									
CHAINAGE (km)		4+200.00	4+220.00	4+240.00	4+260.00	4+280.00	4+300.00	4+320.00	4+340.00	4+360.00	4+380.00	4+400.00	4+420.00	4+440.00	4+460.00	4+480.00	4+500.00	4+520.00	4+540.00	4+560.00	4+580.00	4+600.00	4+620.00	4+640.00	4+660.00	4+680.00	4+700.00	4+720.00	4+740.00	4+760.00	4+780.00	4+800.00	4+820.00	4+840.00	4+860.00	4+880.00	4+900.00																								
		-200.00										+407.93	+422.93		+456.27	+471.27		+495.91	+510.91							+697.41	+712.41			+754.23	+776.73			+864.73		+887.23	+900.00																								





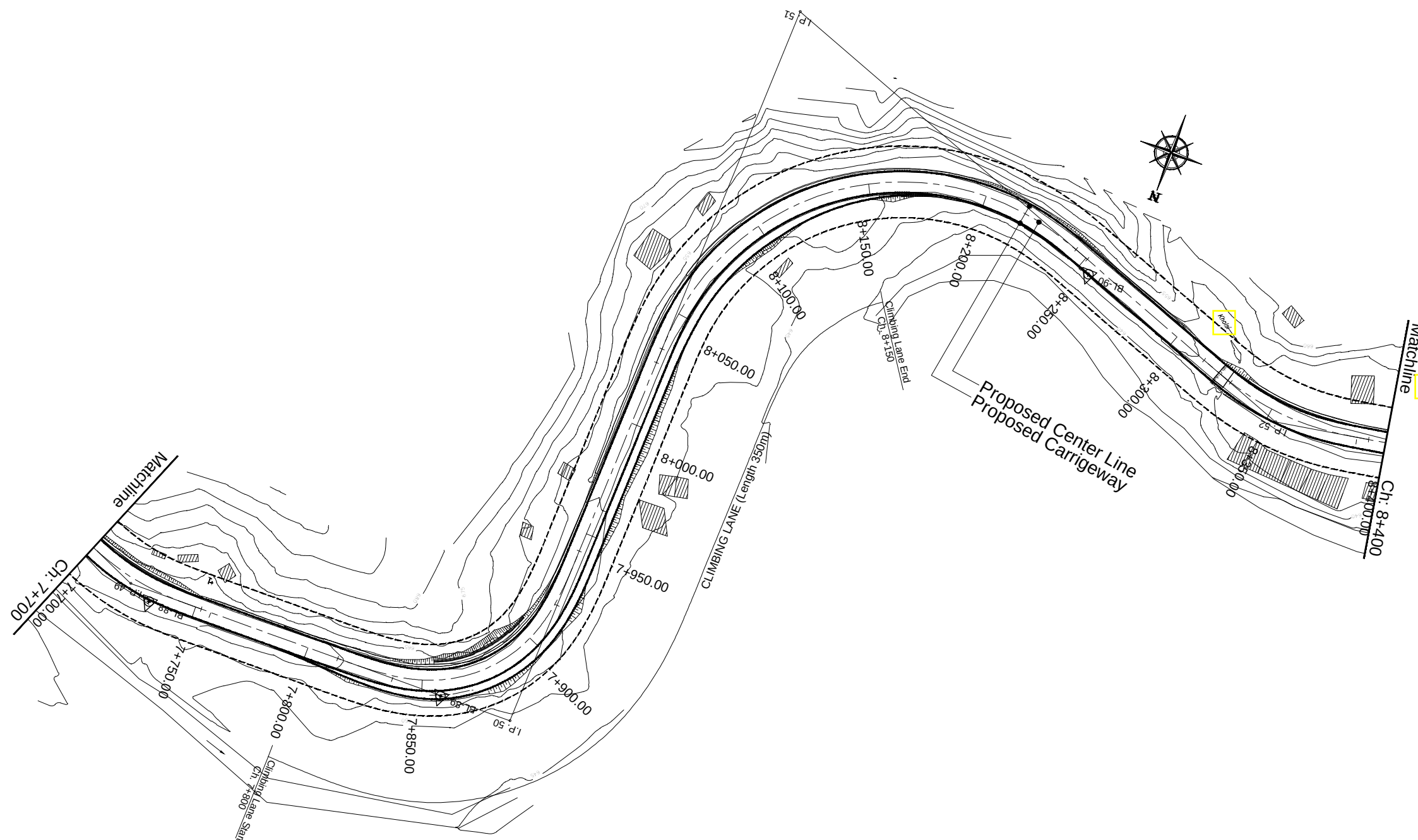




 EMPLOYER Government of Nepal Ministry of Physical Infrastructure and Transport Department of Roads Development Cooperation Implementation Division	PROJECT Nepal India Regional Trade and Transport Project (NIRTP) (IDA CREDIT No. 5273 - NEP) Detailed Design for Improvement of Kathmandu (Nagdhunga) - Naubise - Mugling Road and Bridges	 DESIGN CONSULTANT Intercontinental Consultants & Technocrats Pvt. Ltd. A-8, Green Park, New Delhi - 110016 Ph : 4086-3000, Fax 2685-5252 In Joint Venture With Soosung Engineering Co. Ltd., South Korea	 In Association With Full Bright Consultancy (Pvt.) Ltd. 316, Baburam Acharya Sadak Sinamangal, Kathmandu, GPO Box: 4970, Kathmandu, Nepal	Designed By	SB		DRAWING NAME: NAUBISE - MUGLING ROAD PLAN AND PROFILE CHAINAGE 7+000.00 TO 7+700.00	Scale:  Horizontal  Vertical	Date: August 2019 Drawing No.: NMR-PP-011
				Checked By	PMS				
				Approved By	BNS				



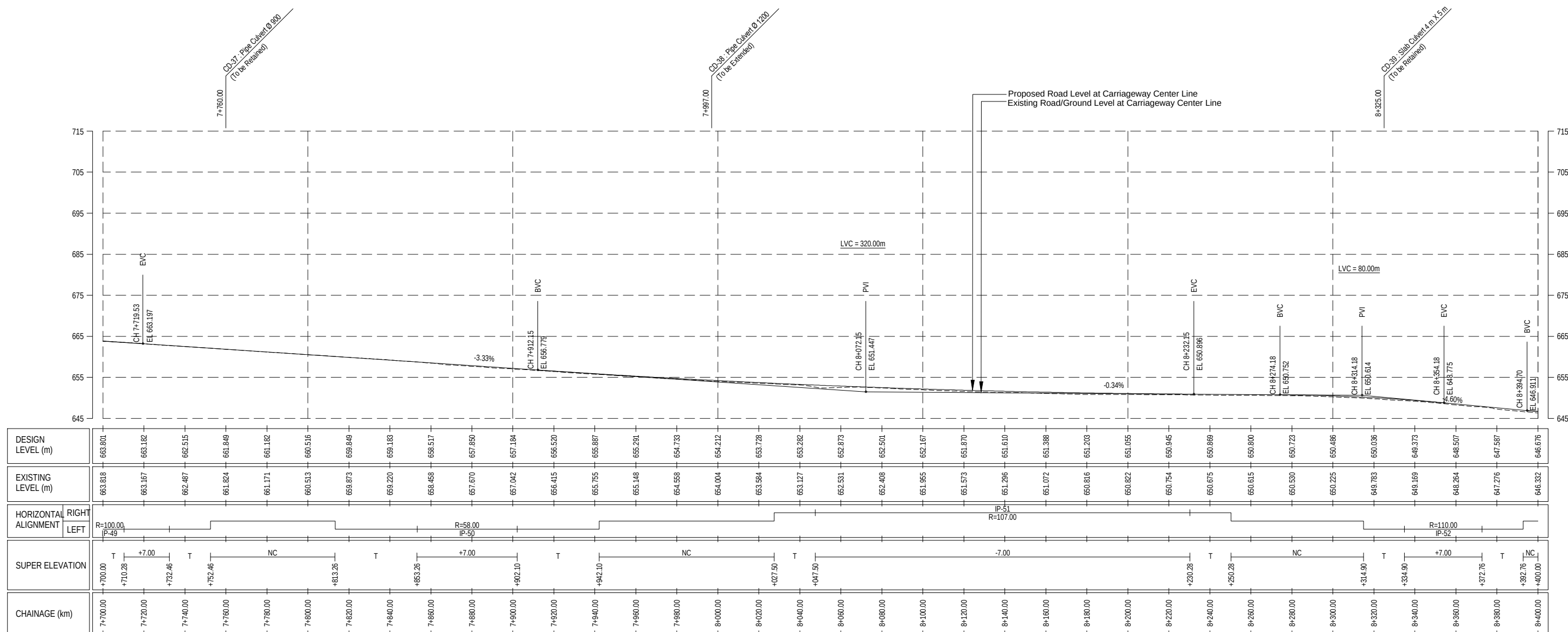
Mugling

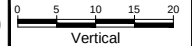


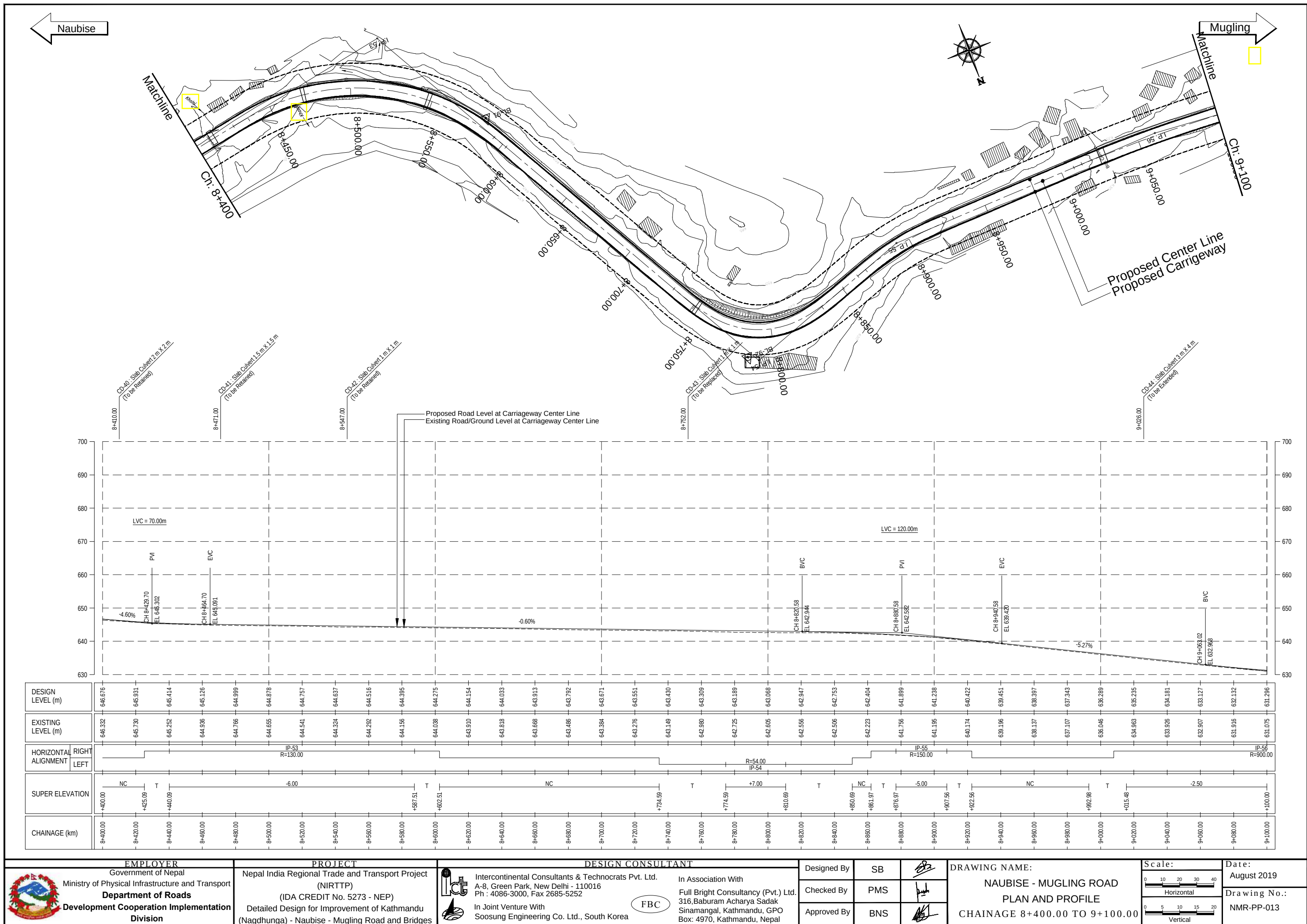
	EMPLOYER	PROJECT	DESIGN CONSULTANT		Designed By	SB		DRAWING NAME: NAUBISE - MUGLING ROAD PLAN CHAINAGE 7+700.00 TO 8+400.00	Scale:	Date:	
	Government of Nepal Ministry of Physical Infrastructure and Transport Department of Roads Development Cooperation Implementation Division	Nepal India Regional Trade and Transport Project (NIRTPP) (IDA CREDIT No. 5273 - NEP) Detailed Design for Improvement of Kathmandu (Naadhunqa) - Naubise - Mugling Road and Bridges	 Intercontinental Consultants & Technocrats Pvt. Ltd. A-8, Green Park, New Delhi - 110016 Ph : 4086-3000, Fax 2685-5252	In Association With Full Bright Consultancy (Pvt.) Ltd. 316, Baburam Acharya Sadak Sinamangal, Kathmandu, GPO Box: 4970, Kathmandu, Nepal	Checked By	PMS				Horizontal	August 2019
										Vertical	Drawing No.:
				In Joint Venture With Soosung Engineering Co. Ltd., South Korea	Approved By	BNS			NMR-PP-012		

Naubise

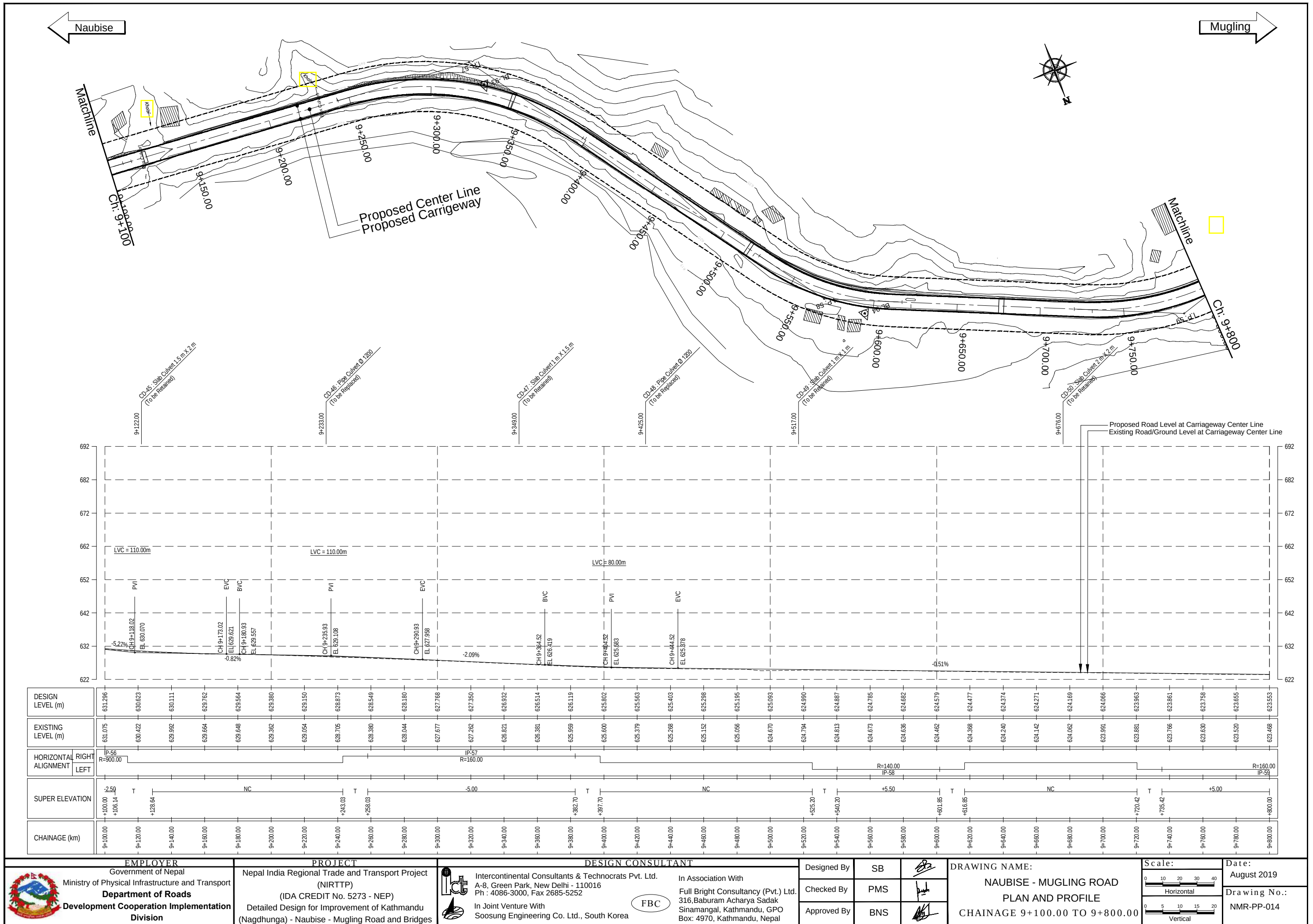
Mugling



	EMPLOYER	PROJECT	DESIGN CONSULTANT			Designed By	SB		DRAWING NAME: NAUBISE - MUGLING ROAD PROFILE CHAINAGE 7+700.00 TO 8+400.00	Scale:	Date: August 2019 Drawing No.: NMR-PP-012(a)
	Government of Nepal Ministry of Physical Infrastructure and Transport Department of Roads Development Cooperation Implementation Division	Nepal India Regional Trade and Transport Project (NIRTP) (IDA CREDIT No. 5273 - NEP) Detailed Design for Improvement of Kathmandu (Nagdhunga) - Naubise - Mugling Road and Bridges	 Intercontinental Consultants & Technocrats Pvt. Ltd. A-8, Green Park, New Delhi - 110016 Ph : 4086-3000, Fax 2685-5252 In Joint Venture With Soosung Engineering Co. Ltd., South Korea 	In Association With Full Bright Consultancy (Pvt.) Ltd. 316, Baburam Acharya Sadak Sinamangal, Kathmandu, GPO Box: 4970, Kathmandu, Nepal	Checked By	PMS		 Horizontal  Vertical			
					Approved By	BNS					



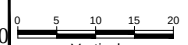
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 Government of Nepal Ministry of Physical Infrastructure and Transport Department of Roads Development Cooperation Implementation Division	Nepal India Regional Trade and Transport Project (NIRTPP) (IDA CREDIT No. 5273 - NEP) Detailed Design for Improvement of Kathmandu (Nagdhunga) - Naubise - Mugling Road and Bridges	 Intercontinental Consultants & Technocrats Pvt. Ltd. A-8, Green Park, New Delhi - 110016 Ph : 4086-3000, Fax 2685-5252  In Joint Venture With Soosung Engineering Co. Ltd., South Korea	In Association With Full Bright Consultancy (Pvt.) Ltd. 316, Baburam Acharya Sadak Sinamangal, Kathmandu, GPO Box: 4970, Kathmandu, Nepal	Checked By	PMS		 Horizontal	 Vertical	August 2019			
				Approved By	BNS				Drawing No.: NMR-PP-013			



Naubise

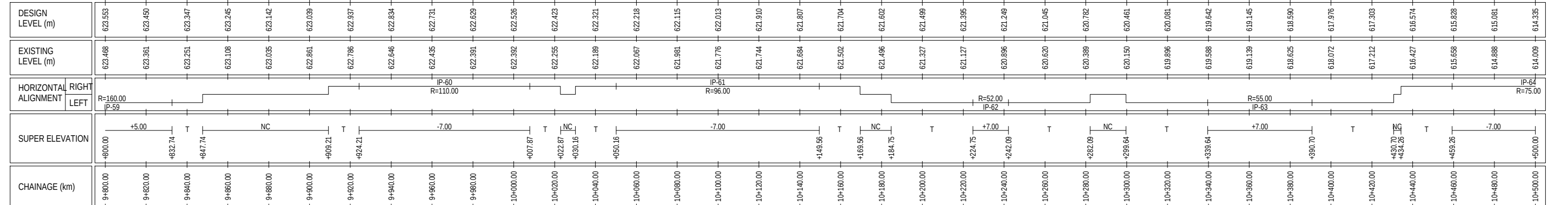
Mugling



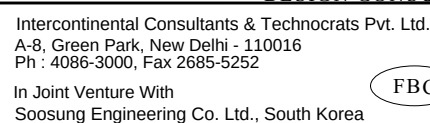
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	Government of Nepal	Nepal India Regional Trade and Transport Project (NIRTP)	 Intercontinental Consultants & Technocrats Pvt. Ltd. A-8, Green Park, New Delhi - 110016 Ph : 4086-3000, Fax 2685-5252  Full Bright Consultancy (Pvt.) Ltd. 316, Baburam Acharya Sadak Sinamangal, Kathmandu, GPO Box: 4970, Kathmandu, Nepal	In Association With	Checked By	PMS		 Horizontal		August 2019	
	Ministry of Physical Infrastructure and Transport	(IDA CREDIT No. 5273 - NEP)		In Joint Venture With	Approved By	BNS		 Vertical		Drawing No.:	
	Department of Roads	Detailed Design for Improvement of Kathmandu (Nagdhunga) - Naubise - Mugling Road and Bridges		Soosung Engineering Co. Ltd., South Korea						NMR-PP-015	
Development Cooperation Implementation Division											



Mugling



Nepal India Regional Trade and Transport Project
(NIRTPP)
(IDA CREDIT No. 5273 - NEP)
Detailed Design for Improvement of Kathmandu
(Nagdhunga) - Naubise - Mugling Road and Bridges



316, Baburam Acharya Sadak
Sinamangal, Kathmandu, GPO
Box: 4970, Kathmandu, Nepal

Designed By
Checked By
Approved By

SB
PMS
BNS

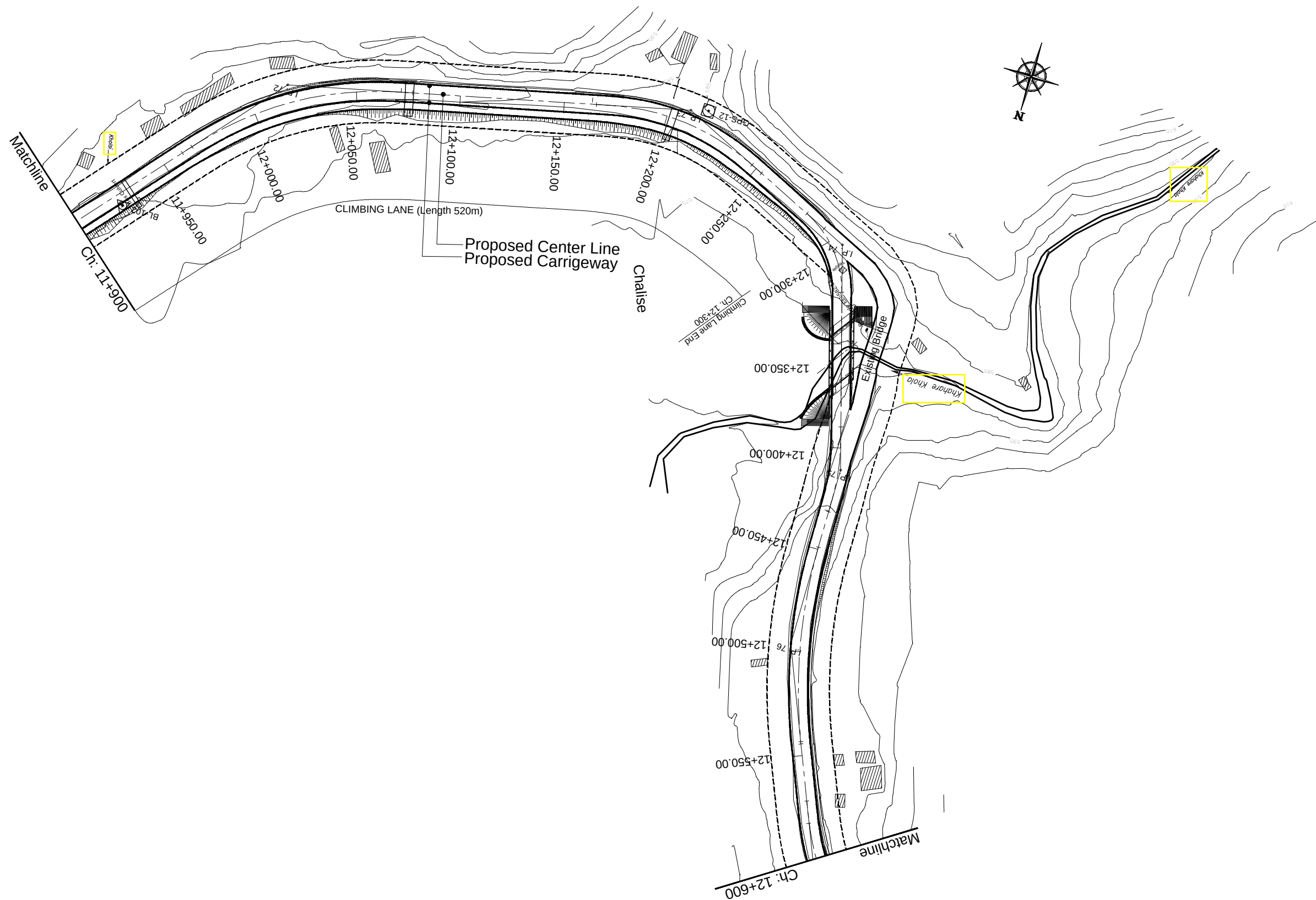
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DRAWING NAME:
NAUBISE - MUGLING ROAD
PROFILE
CHAINAGE 9+800.00 TO 10+500.00

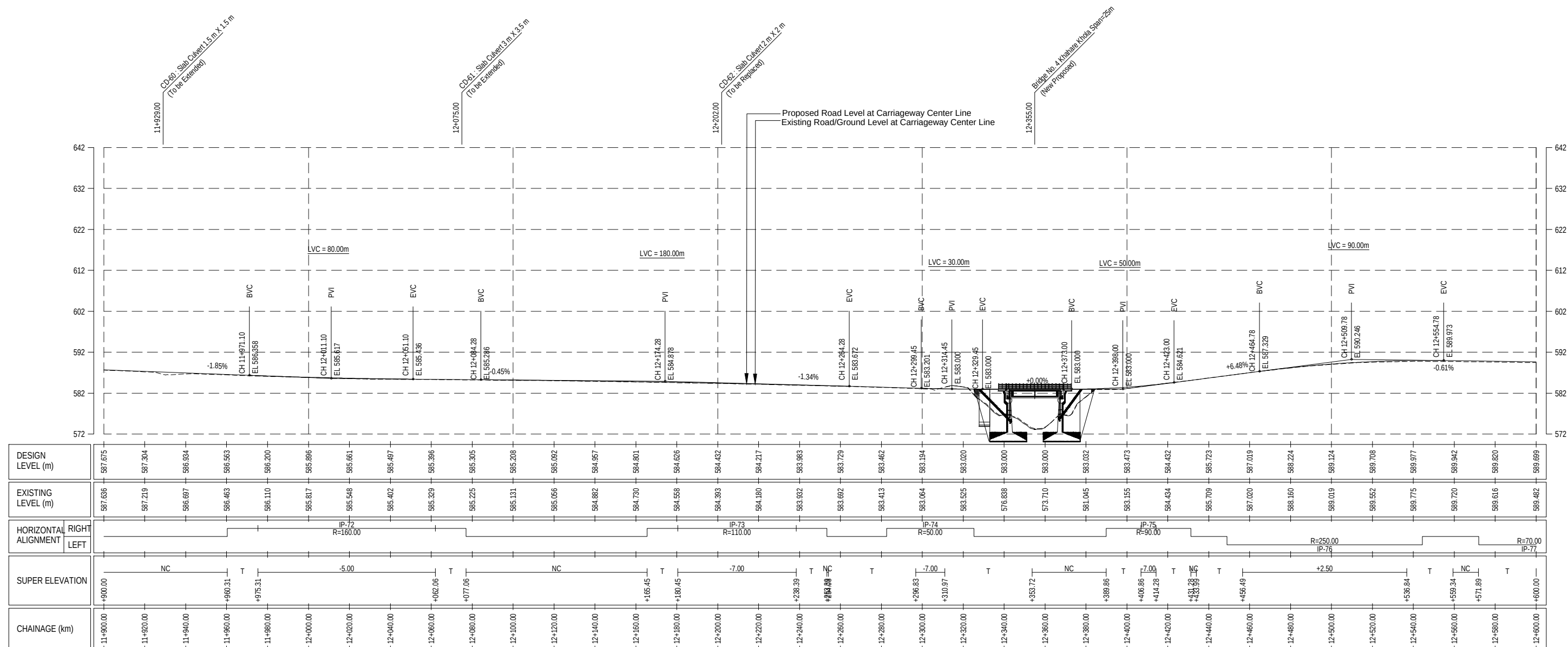
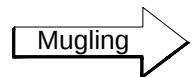
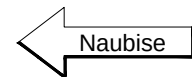
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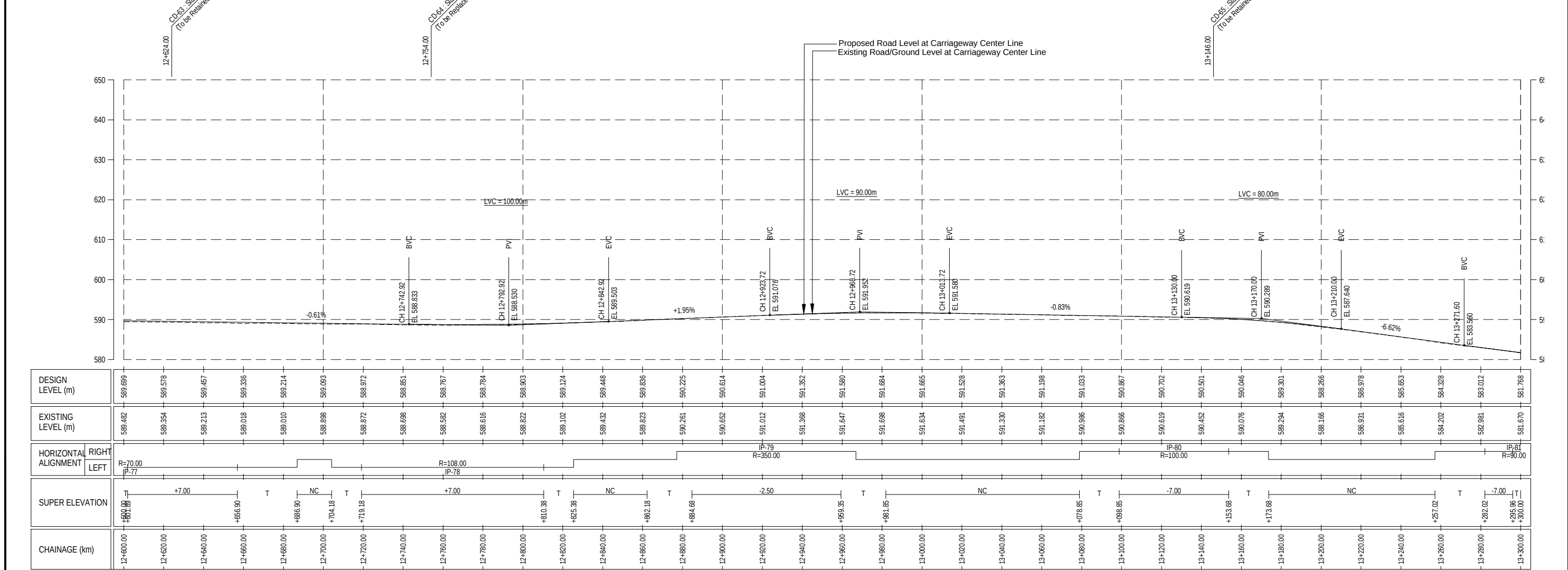
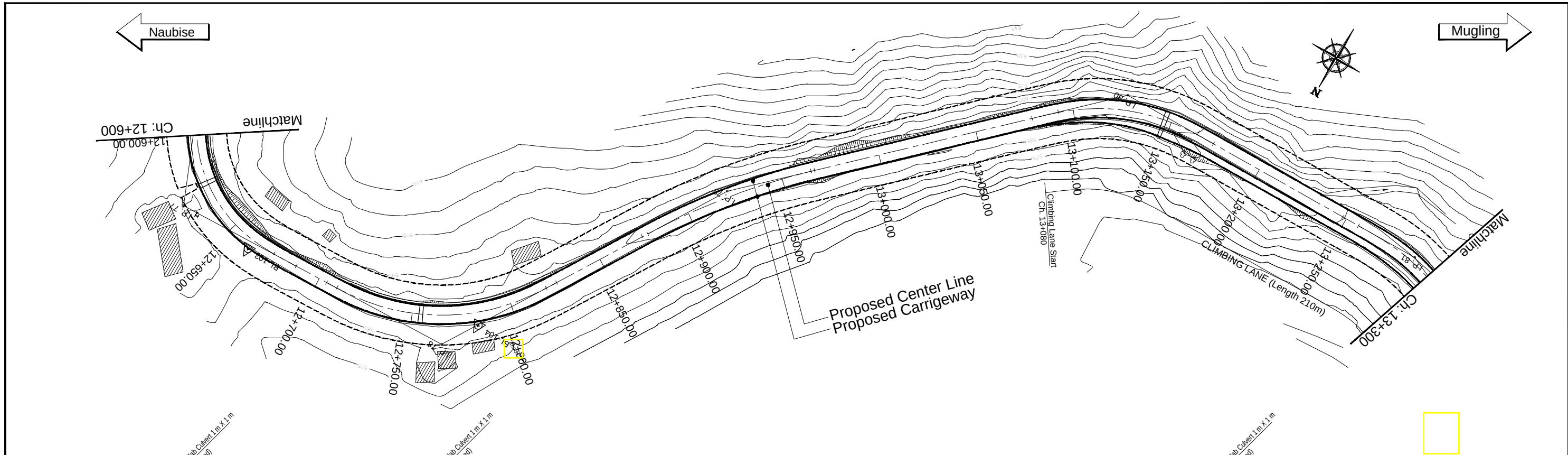
Mugling



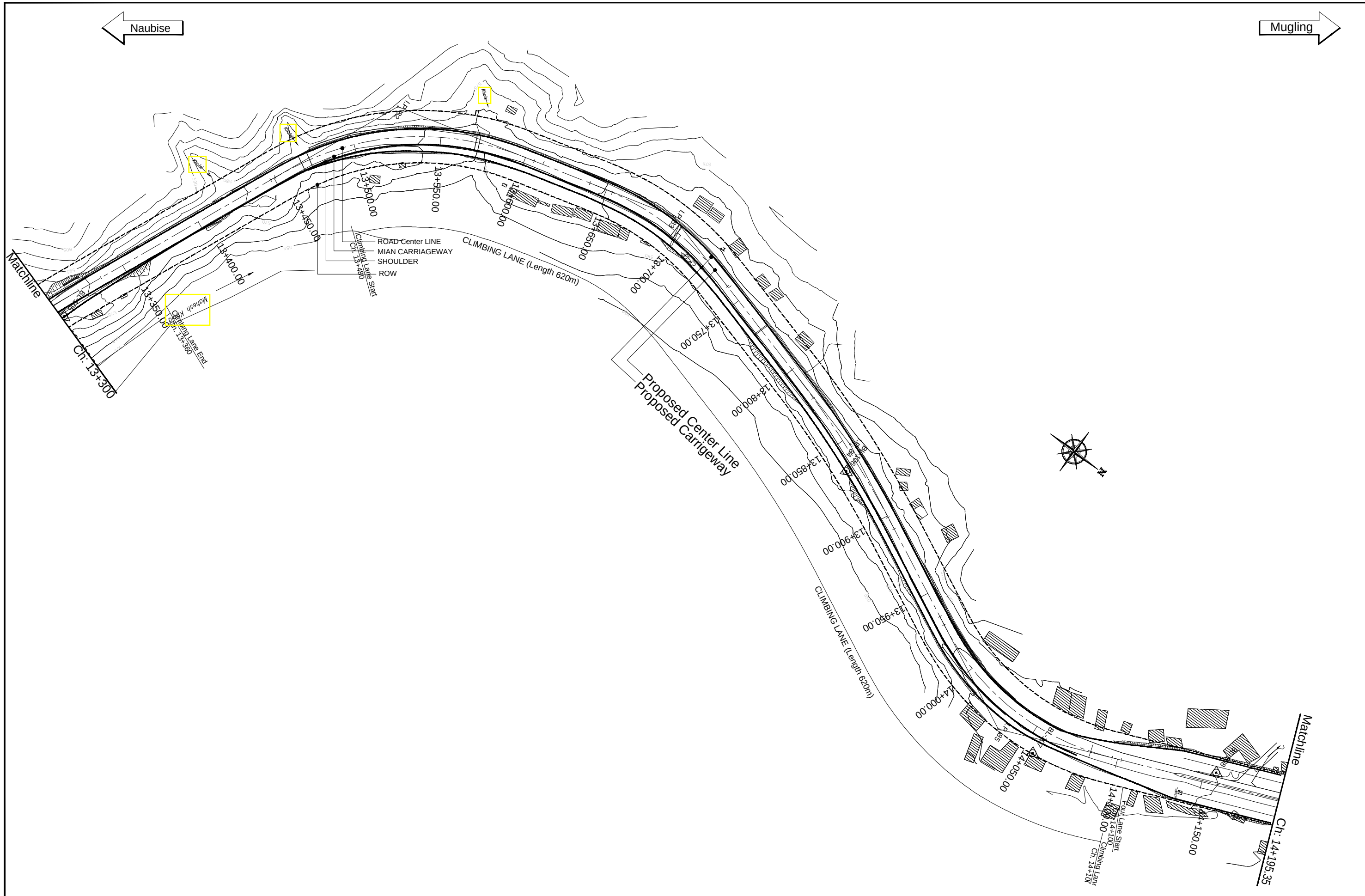
 EMPLOYER Government of Nepal Ministry of Physical Infrastructure and Transport Department of Roads Development Cooperation Implementation Division	PROJECT Nepal India Regional Trade and Transport Project (NIRTP) (IDA CREDIT No. 5273 - NEP) Detailed Design for Improvement of Kathmandu (Nagdhunga) - Naubise - Mugling Road and Bridges	 DESIGN CONSULTANT Intercontinental Consultants & Technocrats Pvt. Ltd. A-8, Green Park, New Delhi - 110016 Ph : 4086-3000, Fax 2685-5252 In Joint Venture With Soosung Engineering Co. Ltd., South Korea 	Designed By	SB		DRAWING NAME: NAUBISE - MUGLING ROAD PLAN CHAINAGE 11+900.0 TO 12+600.0	Scale:  Horizontal  Vertical	Date: August 2019 Drawing No.: NMR-PP-018
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			Approved By	BNS				



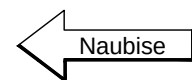
 EMPLOYER Government of Nepal Ministry of Physical Infrastructure and Transport Department of Roads Development Cooperation Implementation Division	PROJECT Nepal India Regional Trade and Transport Project (NIRTP) (IDA CREDIT No. 5273 - NEP) Detailed Design for Improvement of Kathmandu (Nagdhunga) - Naubise - Mugling Road and Bridges	DESIGN CONSULTANT  Intercontinental Consultants & Technocrats Pvt. Ltd. A-8, Green Park, New Delhi - 110016 Ph : 4086-3000, Fax 2685-5252 In Joint Venture With  Soosung Engineering Co. Ltd., South Korea  In Association With Full Bright Consultancy (Pvt.) Ltd. 316, Baburam Acharya Sadak Sinamangal, Kathmandu, GPO Box: 4970, Kathmandu, Nepal	Designed By	SB		DRAWING NAME: NAUBISE - MUGLING ROAD PROFILE CHAINAGE 11+900.00 TO 12+600.00	Scale:  Horizontal  Vertical	Date: August 2019 Drawing No.: NMR-PP-018(a)
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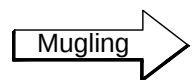
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	Ministry of Physical Infrastructure and Transport						Detailed Design for Improvement of Kathmandu (Nagdhunga) - Naubise - Mugling Road and Bridges					Approved By	BNS
Department of Roads									CHAINAGE 12+600.0 TO 13+300.0	0 5 10 15 20	NMR-PP-019		
Development Cooperation Implementation Division											Vertical		



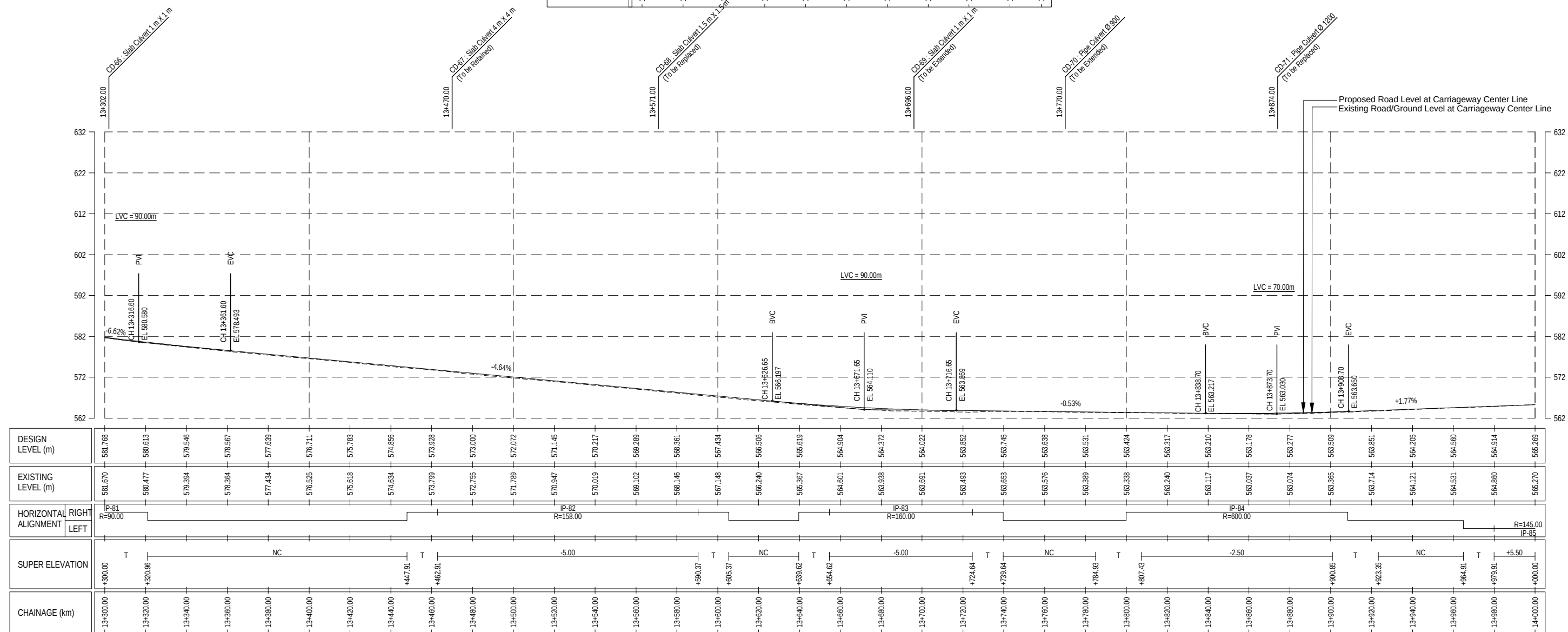
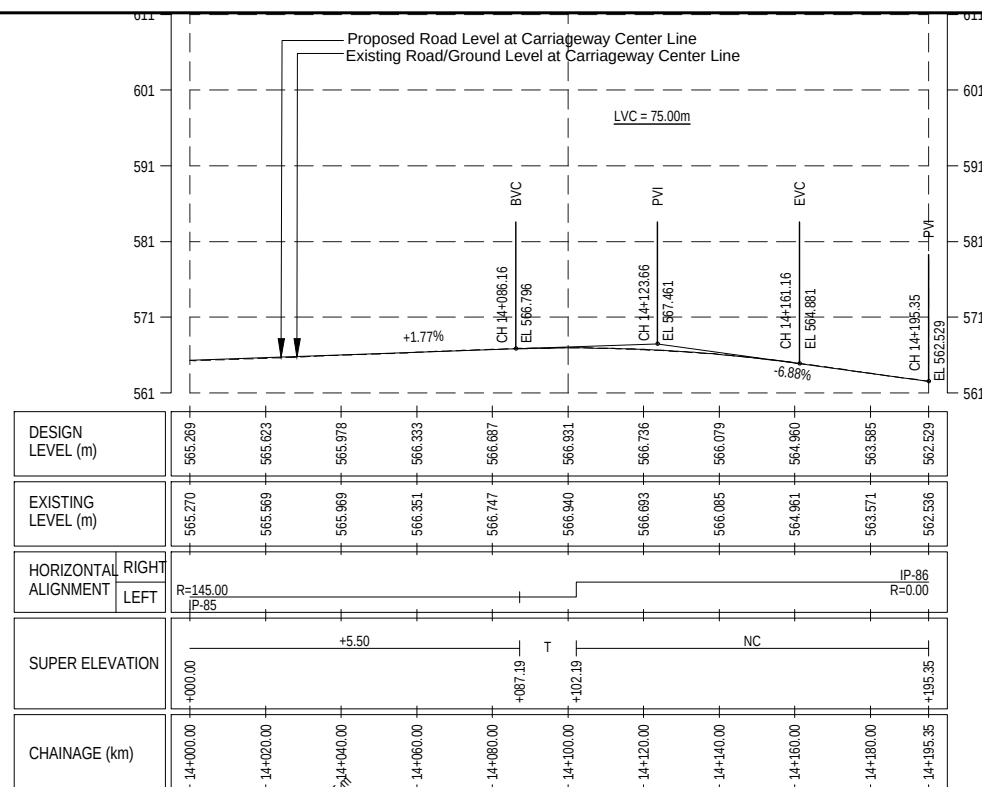
 EMPLOYER Government of Nepal Ministry of Physical Infrastructure and Transport Department of Roads Development Cooperation Implementation Division	PROJECT Nepal India Regional Trade and Transport Project (NIRTP) (IDA CREDIT No. 5273 - NEP) Detailed Design for Improvement of Kathmandu (Nagdhunga) - Naubise - Mugling Road and Bridges	DESIGN CONSULTANT  Intercontinental Consultants & Technocrats Pvt. Ltd. A-8, Green Park, New Delhi - 110016 Ph : 4086-3000, Fax 2685-5252  Full Bright Consultancy (Pvt.) Ltd. 316, Baburam Acharya Sadak Sinamangal, Kathmandu, GPO Box: 4970, Kathmandu, Nepal In Joint Venture With Soosung Engineering Co. Ltd., South Korea	Designed By	SB		DRAWING NAME: NAUBISE - MUGLING ROAD PLAN CHAINAGE 13+300.00 TO 14+195.35	Scale:  Horizontal  Vertical	Date: August 2019
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			Approved By	BNS				NMR-PP-020



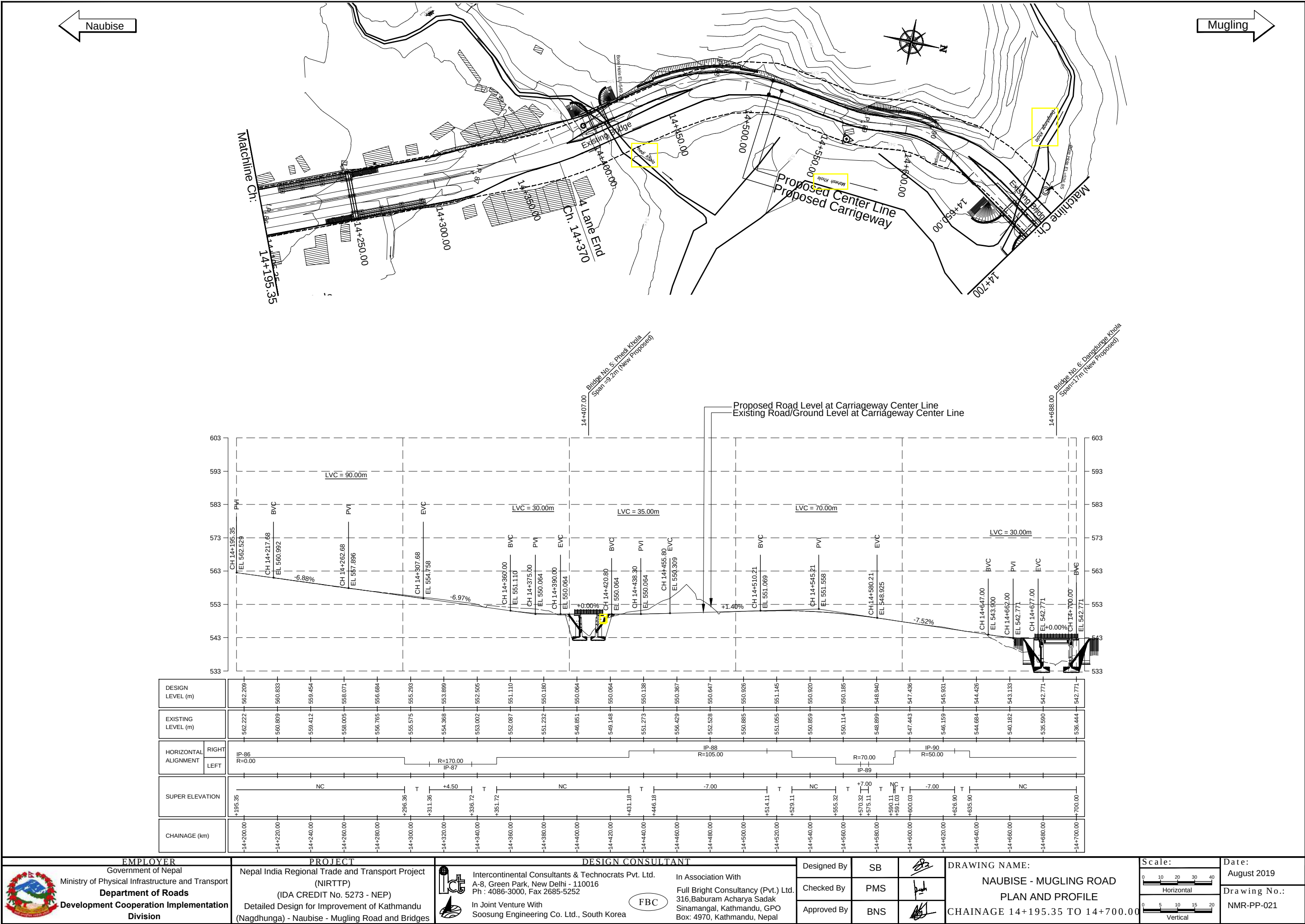
Naubise

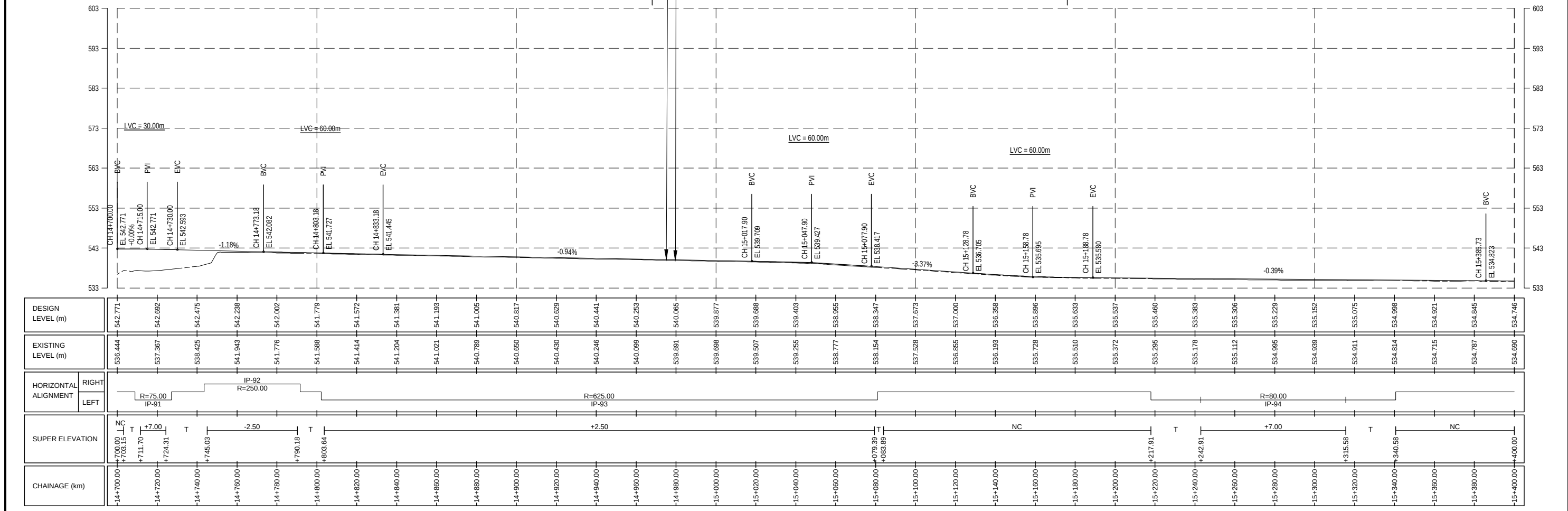
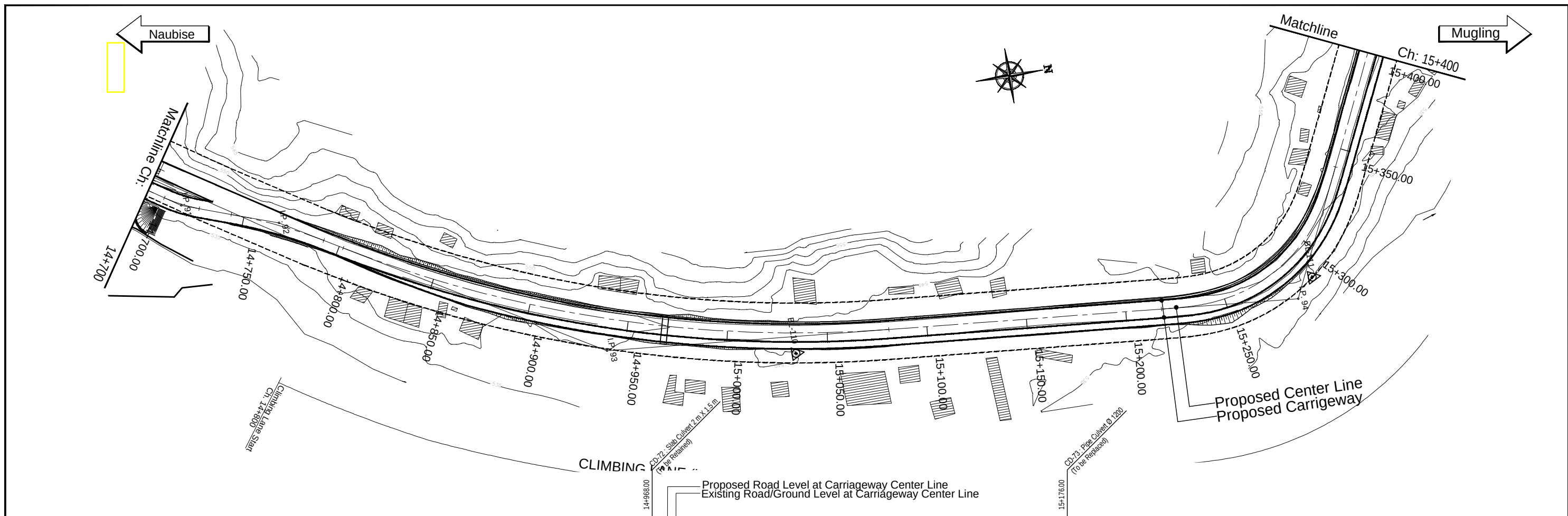


Mugling

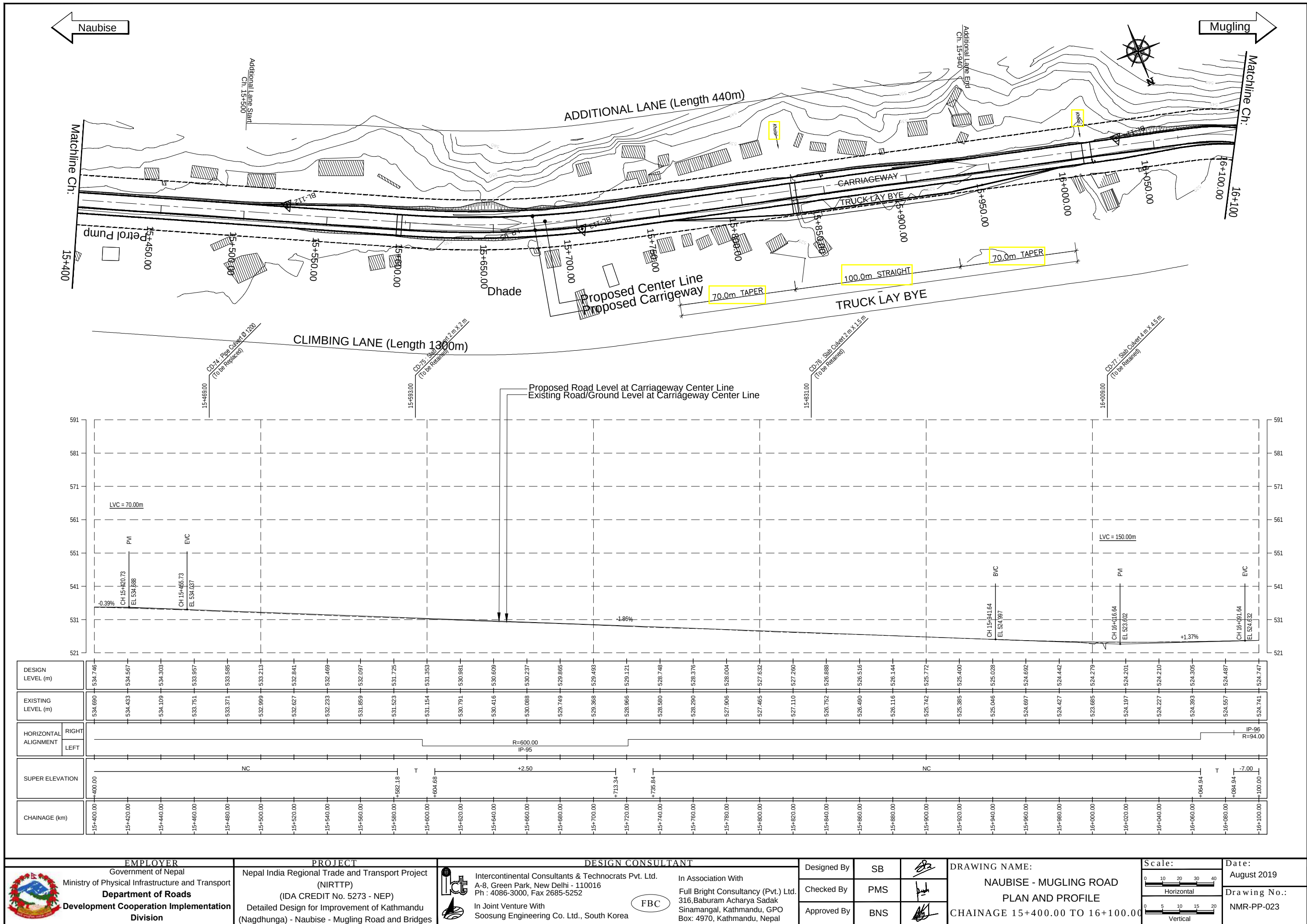


 EMPLOYER Government of Nepal Ministry of Physical Infrastructure and Transport Department of Roads Development Cooperation Implementation Division	PROJECT Nepal India Regional Trade and Transport Project (NIRTP) (IDA CREDIT No. 5273 - NEP) Detailed Design for Improvement of Kathmandu (Nagdhunga) - Naubise - Mugling Road and Bridges	 DESIGN CONSULTANT Intercontinental Consultants & Technocrats Pvt. Ltd. A-8, Green Park, New Delhi - 110016 Ph : 4086-3000, Fax 2685-5252 In Joint Venture With Soosung Engineering Co. Ltd., South Korea 	Designed By	SB		DRAWING NAME: NAUBISE - MUGLING ROAD PLAN AND PROFILE CHAINAGE 13+300.00 TO 14+195.35	Scale:  Horizontal  Vertical	Date: August 2019 Drawing No.: NMR-PP-020(a)
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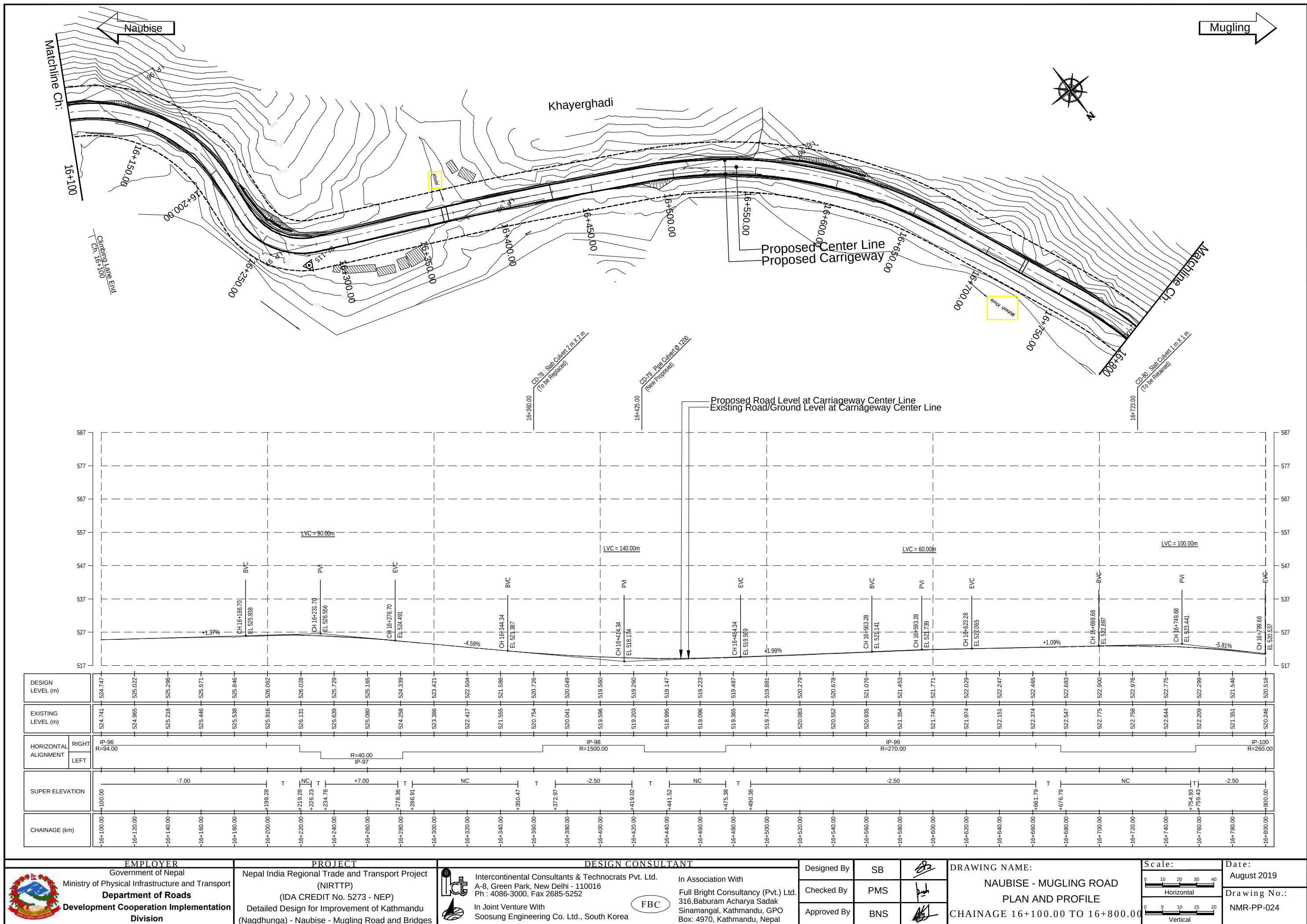




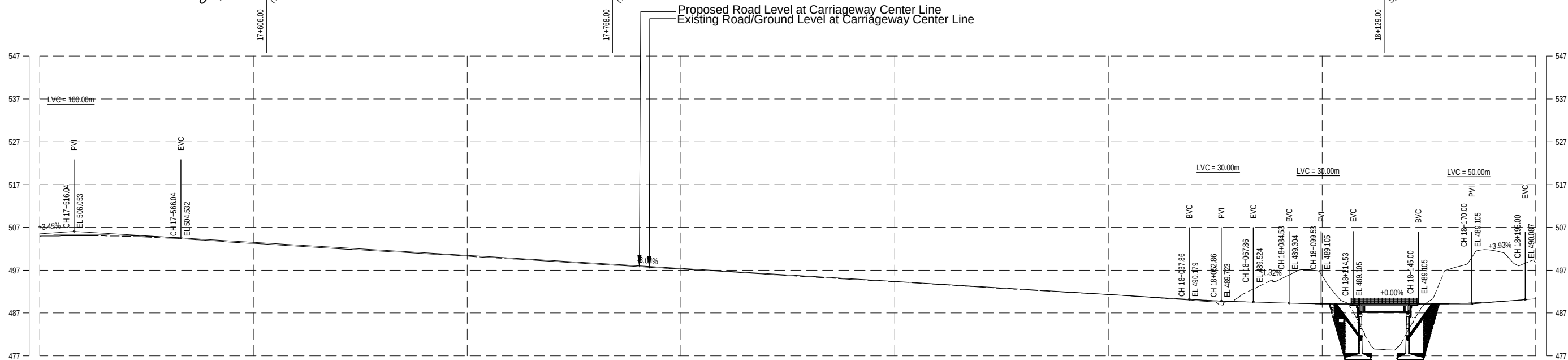
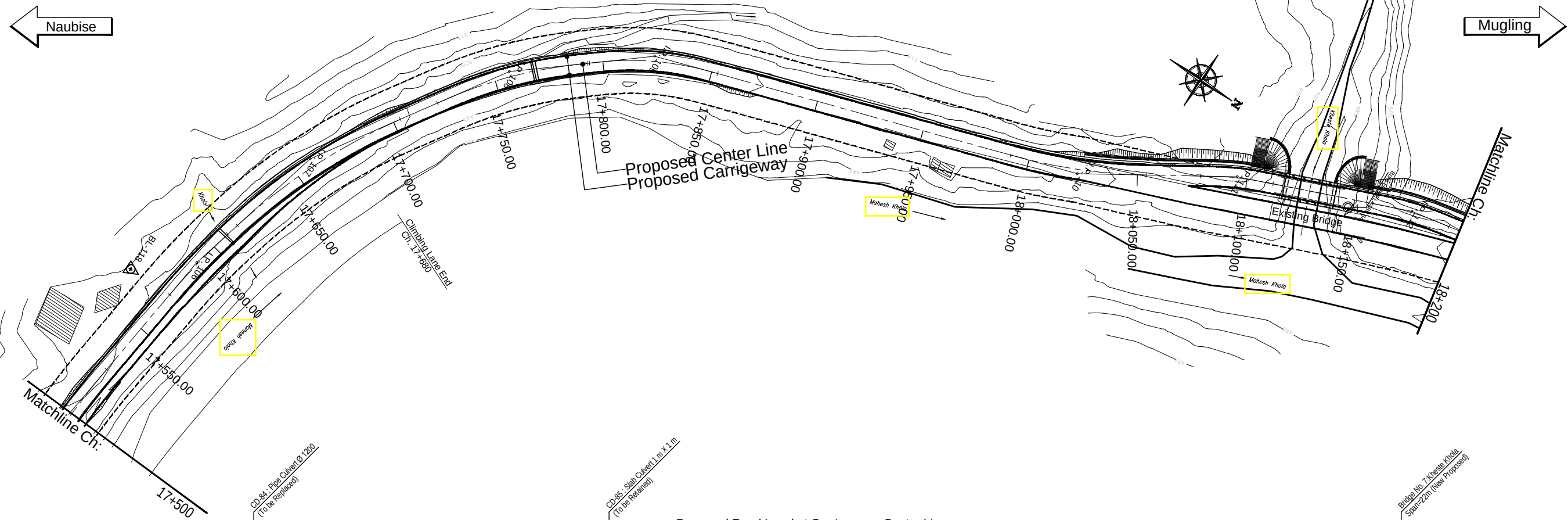
EMPLOYER Government of Nepal Ministry of Physical Infrastructure and Transport Department of Roads Development Cooperation Implementation Division		PROJECT Nepal India Regional Trade and Transport Project (NIRTP) (IDA CREDIT No. 5273 - NEP) Detailed Design for Improvement of Kathmandu (Nagdhunga) - Naubise - Mugling Road and Bridges		DESIGN CONSULTANT Intercontinental Consultants & Technocrats Pvt. Ltd. A-8, Green Park, New Delhi - 110016 Ph : 4086-3000, Fax 2685-5252 In Joint Venture With Soosung Engineering Co. Ltd., South Korea In Association With Full Bright Consultancy (Pvt.) Ltd. 316, Baburam Acharya Sadak Sinamangal, Kathmandu, GPO Box: 4970, Kathmandu, Nepal		Designed By Checked By Approved By	SB PMS BNS	 	DRAWING NAME: NAUBISE - MUGLING ROAD PLAN AND PROFILE CHAINAGE 14+700.00 TO 15+400.00	Scale: Horizontal Vertical	Date: August 2019 Drawing No.: NMR-PP-022
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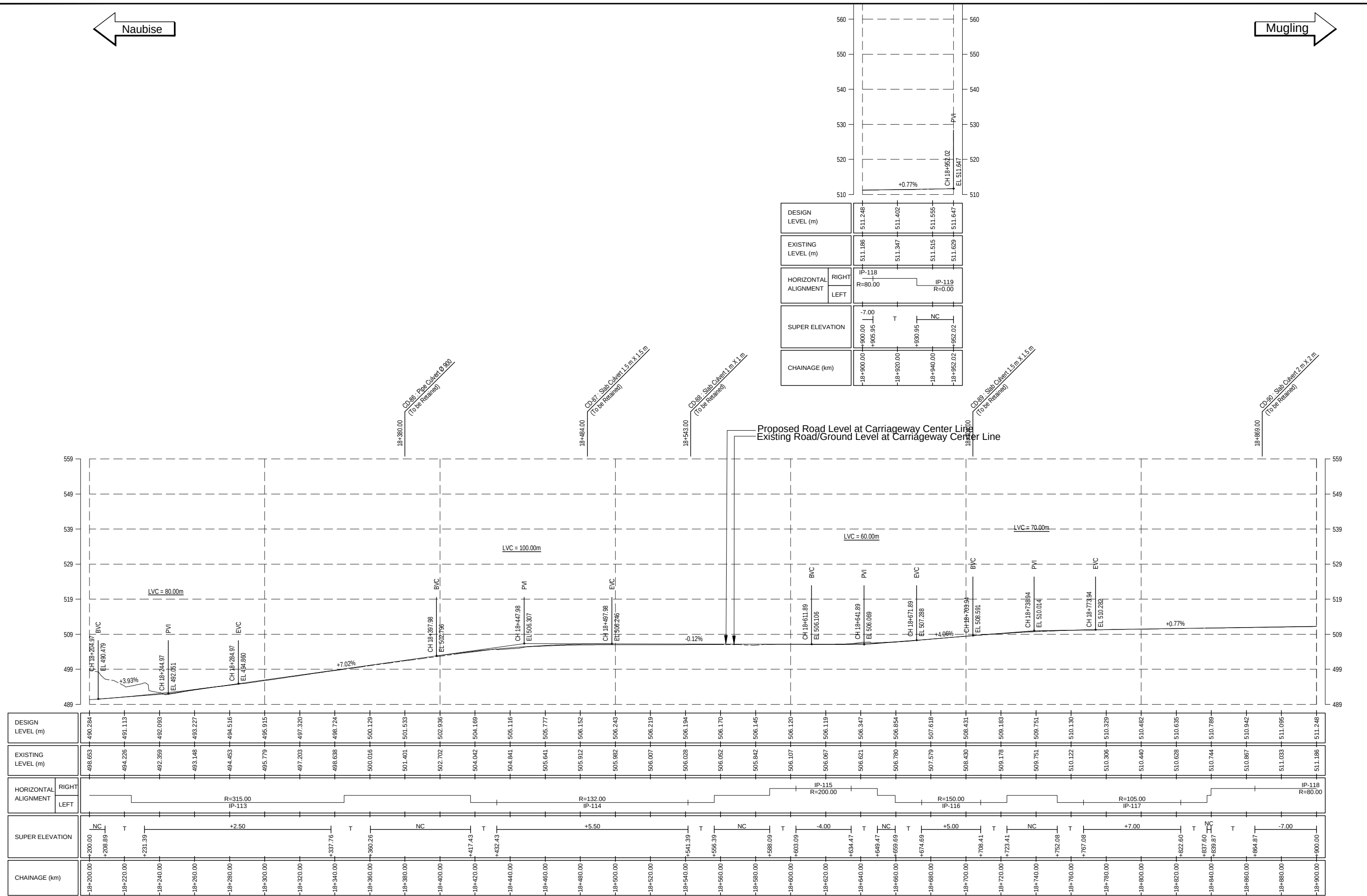
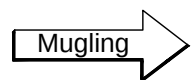
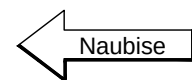
	EMPLOYER		PROJECT		DESIGN CONSULTANT			Designed By	SB		DRAWING NAME: NAUBISE - MUGLING ROAD PLAN AND PROFILE CHAINAGE 15+400.00 TO 16+100.00	Scale:	Date:				
	Government of Nepal		Nepal India Regional Trade and Transport Project (NIRTPP)		Intercontinental Consultants & Technocrats Pvt. Ltd.			In Association With	PMS				August 2019				
	Ministry of Physical Infrastructure and Transport		(IDA CREDIT No. 5273 - NEP)		A-8, Green Park, New Delhi - 110016								Full Bright Consultancy (Pvt.) Ltd.	BNS		Horizontal	Drawing No.:
	Department of Roads		Detailed Design for Improvement of Kathmandu (Nagdhunga) - Naubise - Mugling Road and Bridges		Ph : 4086-3000, Fax 2685-5252											In Joint Venture With	
Development Cooperation Implementation Division																	



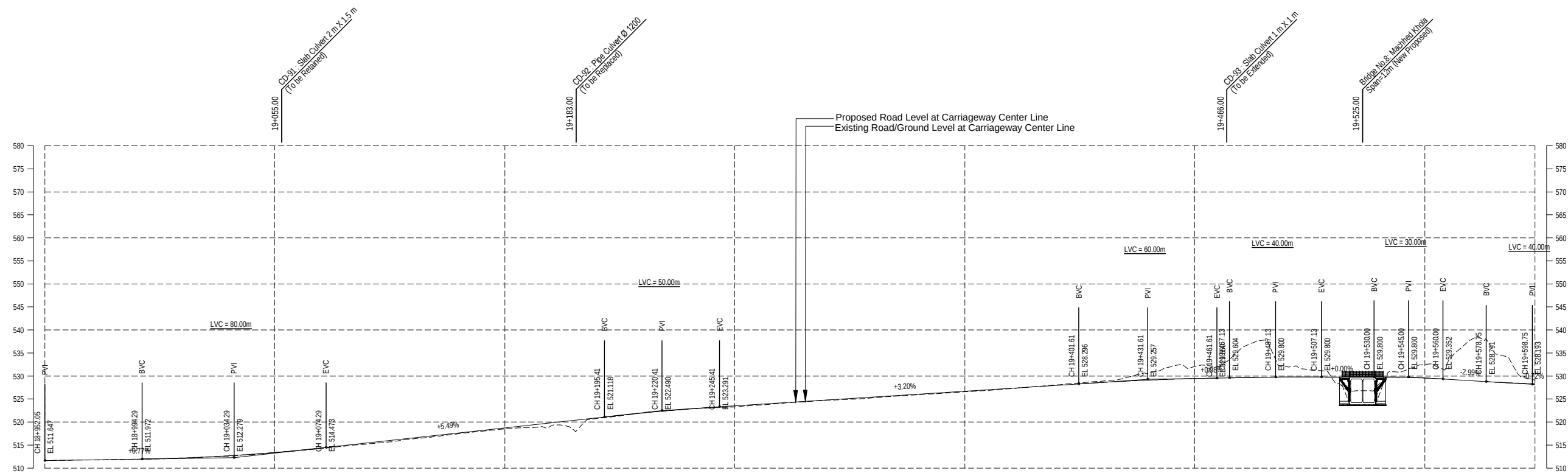
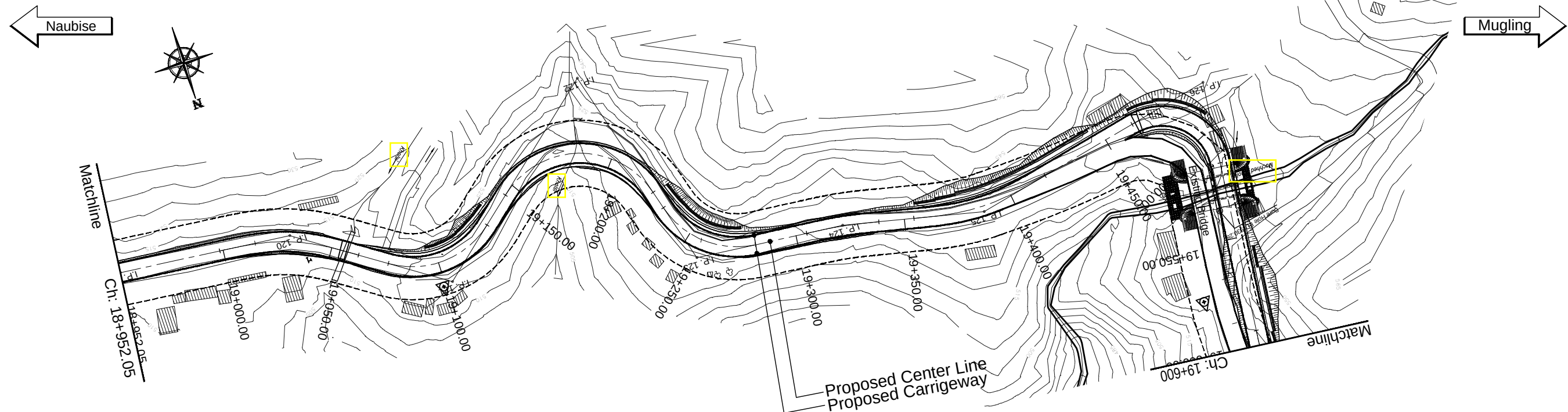
EMPLOYER			PROJECT			DESIGN CONSULTANT			Designed By	SB		DRAWING NAME: NAUBISE - MUGLING ROAD PLAN AND PROFILE CHAINAGE 16+100.00 TO 16+800.00	Scale:	Date:
	Government of Nepal Ministry of Physical Infrastructure and Transport Department of Roads Development Cooperation Implementation Division		Nepal India Regional Trade and Transport Project (NIRTPP) (IDA CREDIT No. 5273 - NEP) Detailed Design for Improvement of Kathmandu (Nagdhunga) - Naubise - Mugling Road and Bridges		 Intercontinental Consultants & Technocrats Pvt. Ltd. A-8, Green Park, New Delhi - 110016 Ph : 4086-3000, Fax 2685-5252  In Joint Venture With  Soosung Engineering Co. Ltd., South Korea		In Association With Full Bright Consultancy (Pvt.) Ltd. 316, Baburam Acharya Sadak Sinamangal, Kathmandu, GPO Box: 4970, Kathmandu, Nepal		Checked By	PMS			 Horizontal	August 2019
									Approved By	BNS			 Vertical	Drawing No.: NMR-PP-024



DESIGN LEVEL 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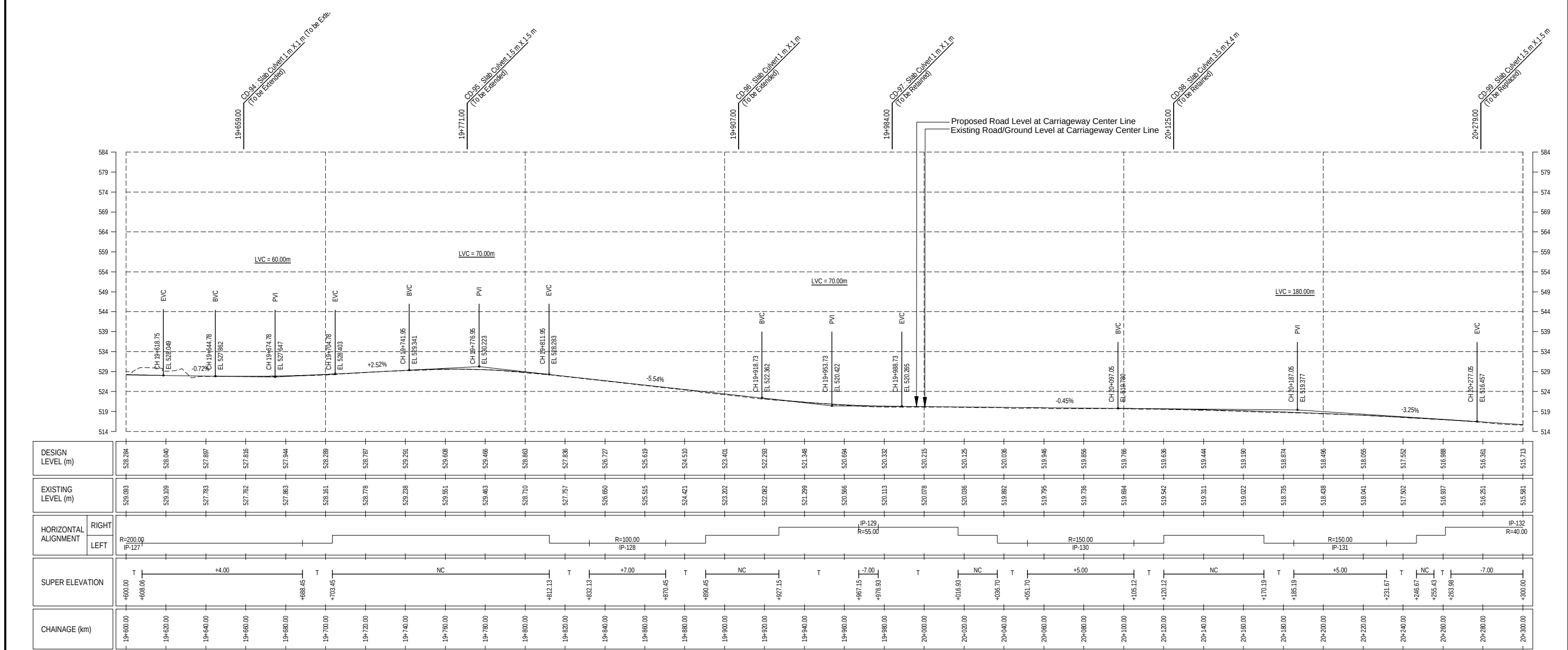
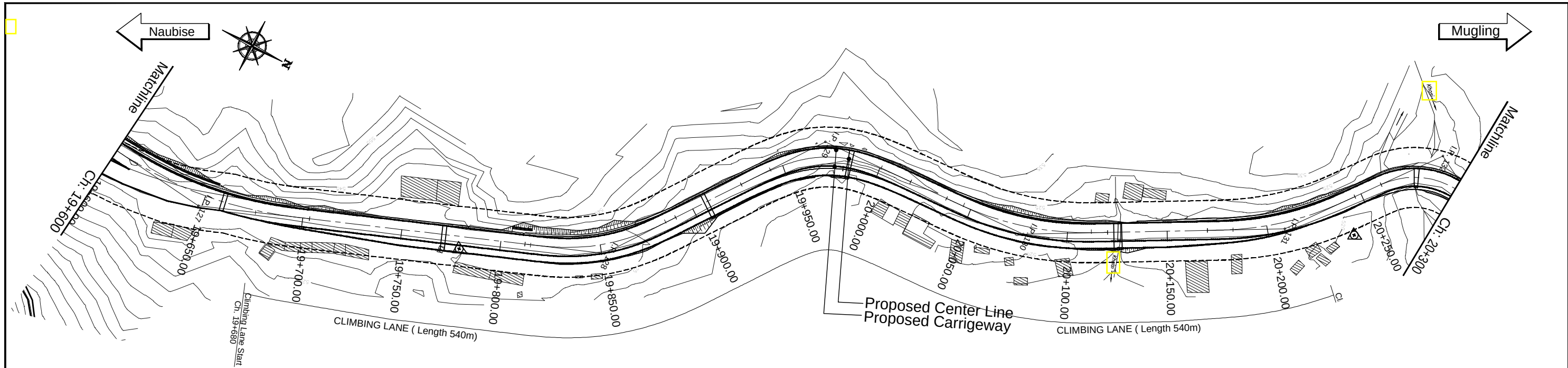


 EMPLOYER Government of Nepal Ministry of Physical Infrastructure and Transport Department of Roads Development Cooperation Implementation Division	PROJECT Nepal India Regional Trade and Transport Project (NIRTPP) (IDA CREDIT No. 5273 - NEP) Detailed Design for Improvement of Kathmandu (Nagdhunga) - Naubise - Mugling Road and Bridges	DESIGN CONSULTANT Intercontinental Consultants & Technocrats Pvt. Ltd. A-8, Green Park, New Delhi - 110016 Ph : 4086-3000, Fax 2685-5252 In Joint Venture With Soosung Engineering Co. Ltd., South Korea FBC	Designed By	SB	DRAWING NAME: NAUBISE - MUGLING ROAD PLAN AND PROFILE CHAINAGE 18+900.00 TO 18+952.02	Scale: Horizontal Vertical	Date: August 2019
			Checked By	PMS			Drawing No.:
			Approved By	BNS			NMR-PP-027(a)

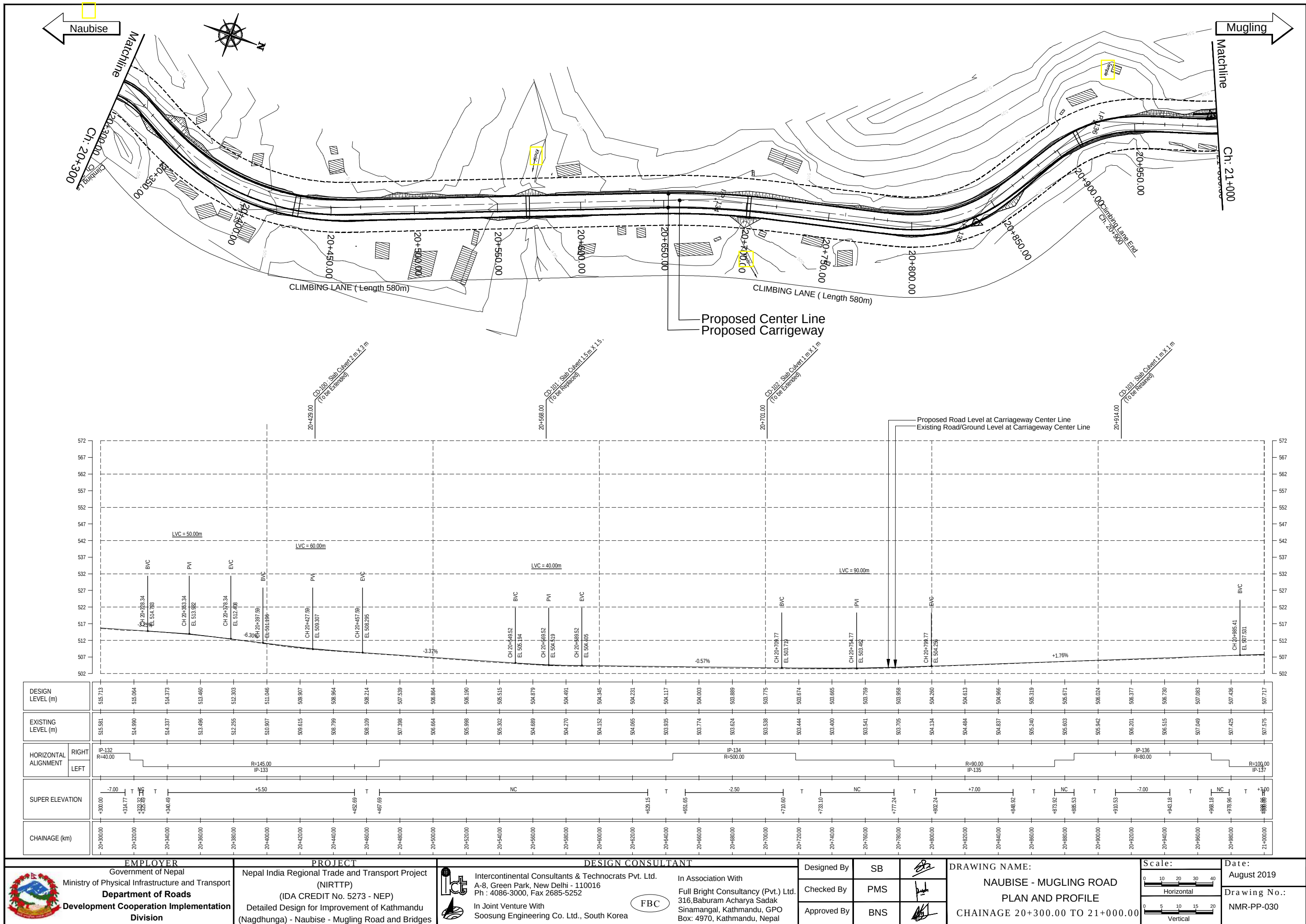


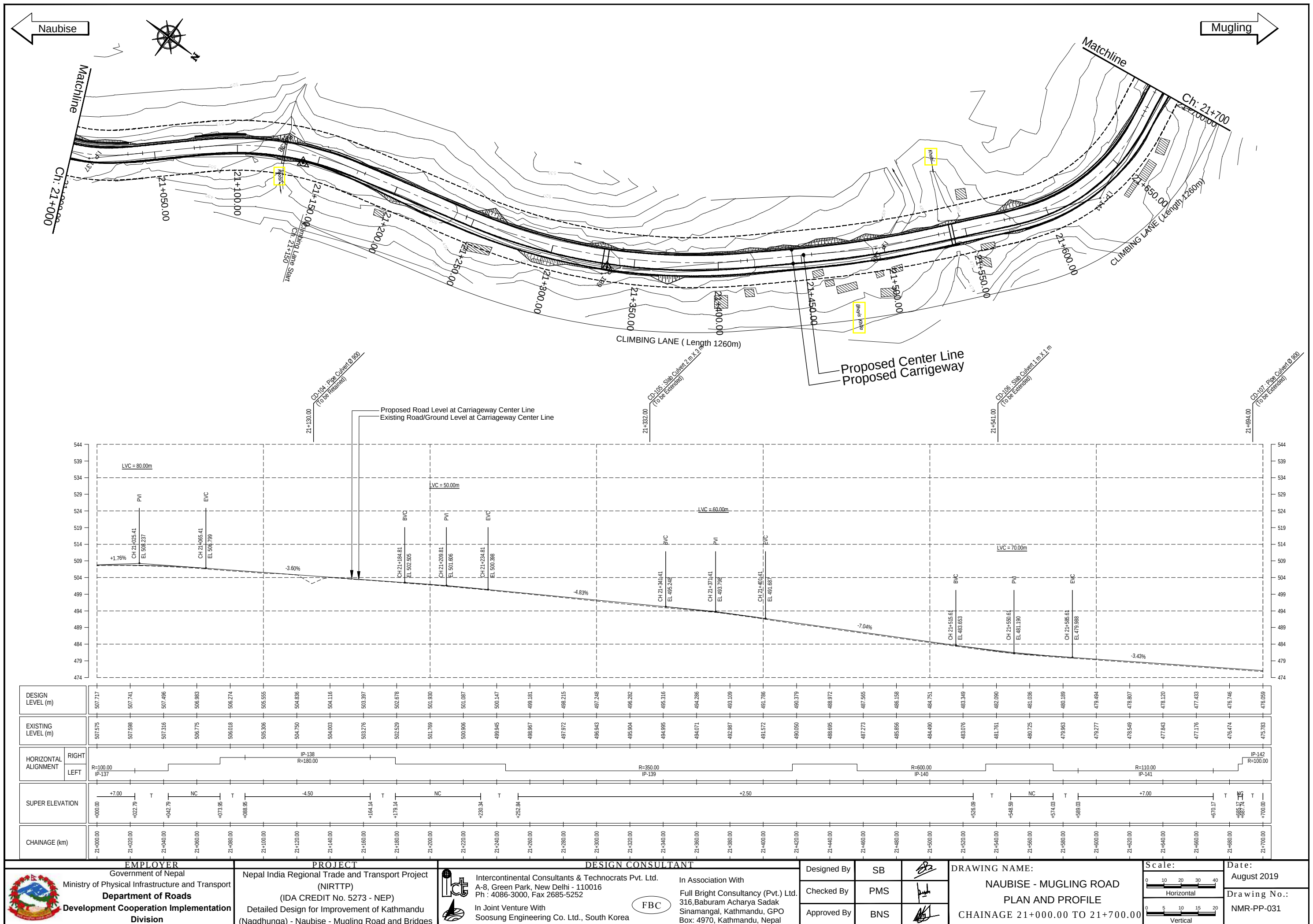
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EMPLOYER Government of Nepal Ministry of Physical Infrastructure and Transport Department of Roads Development Cooperation Implementation Division	PROJECT Nepal India Regional Trade and Transport Project (NIRTP) (IDA CREDIT No. 5273 - NEP) Detailed Design for Improvement of Kathmandu (Nagdhunga) - Naubise - Mugling Road and Bridges	DESIGN CONSULTANT Intercontinental Consultants & Technocrats Pvt. Ltd. A-8, Green Park, New Delhi - 110016 Ph : 4086-3000, Fax 2685-5252 In Joint Venture With Soosung Engineering Co. Ltd., South Korea FBC	Designed By	SB	DRAWING NAME: NAUBISE - MUGLING ROAD PLAN AND PROFILE CHAINAGE 18+952.05 TO 19+600.00	Scale:	Date: August 2019 Drawing No.: NMR-PP-028
			Checked By	PMS		Horizontal	
			Approved By	BNS		Vertical	



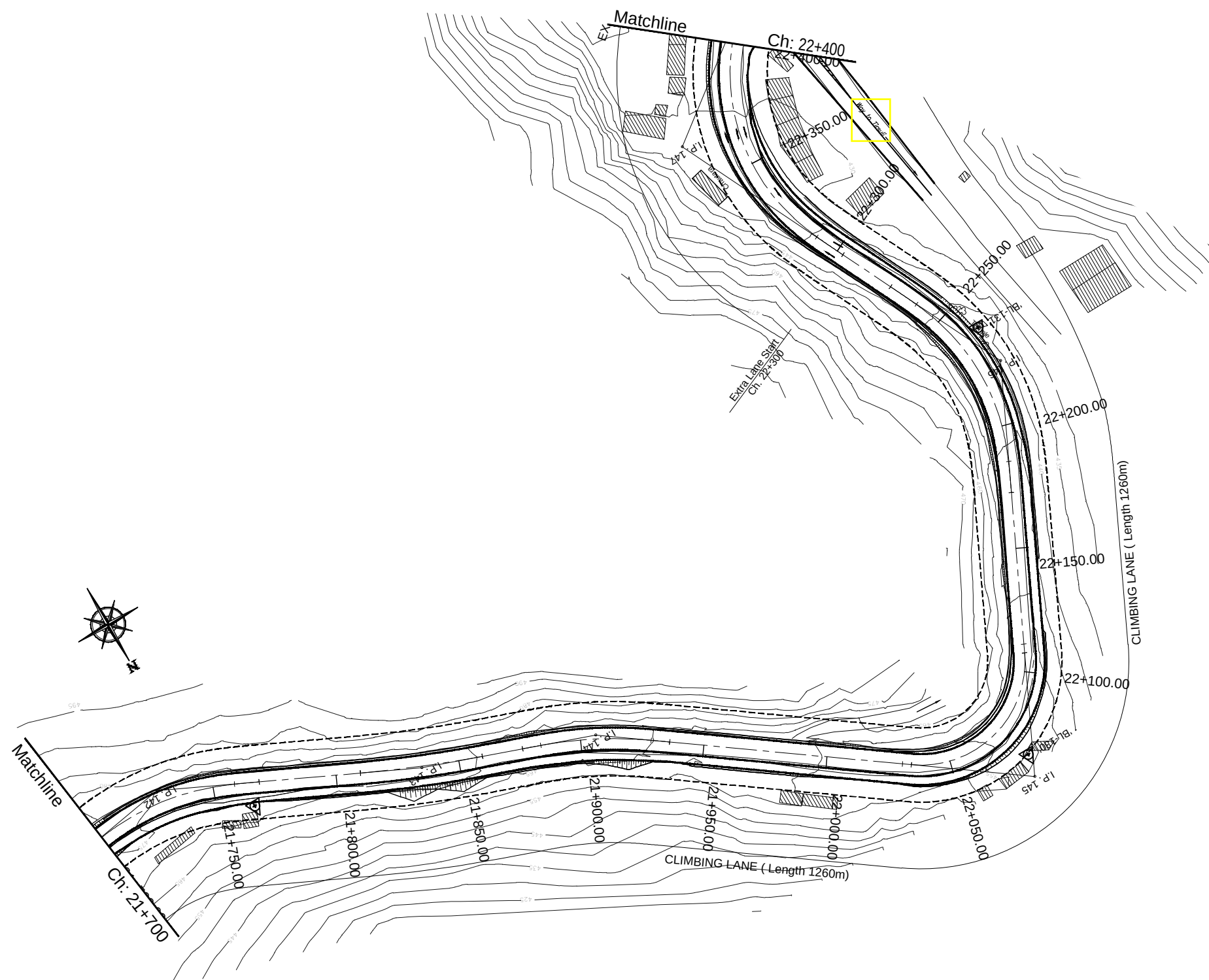
EMPLOYER		PROJECT		DESIGN CONSULTANT		Designed By	SB		DRAWING NAME:	Scale:	Date:					
	Government of Nepal	Nepal India Regional Trade and Transport Project (NIRTPP)	Intercontinental Consultants & Technocrats Pvt. Ltd. A-8, Green Park, New Delhi - 110016 Ph : 4086-3000, Fax 2685-5252	In Association With Full Bright Consultancy (Pvt.) Ltd. 316, Baburam Acharya Sadak Sinamangal, Kathmandu, GPO Box: 4970, Kathmandu, Nepal	Checked By							PMS		NAUBISE - MUGLING ROAD PLAN AND PROFILE CHAINAGE 19+600.00 TO 20+300.00	 Horizontal	August 2019
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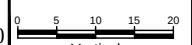


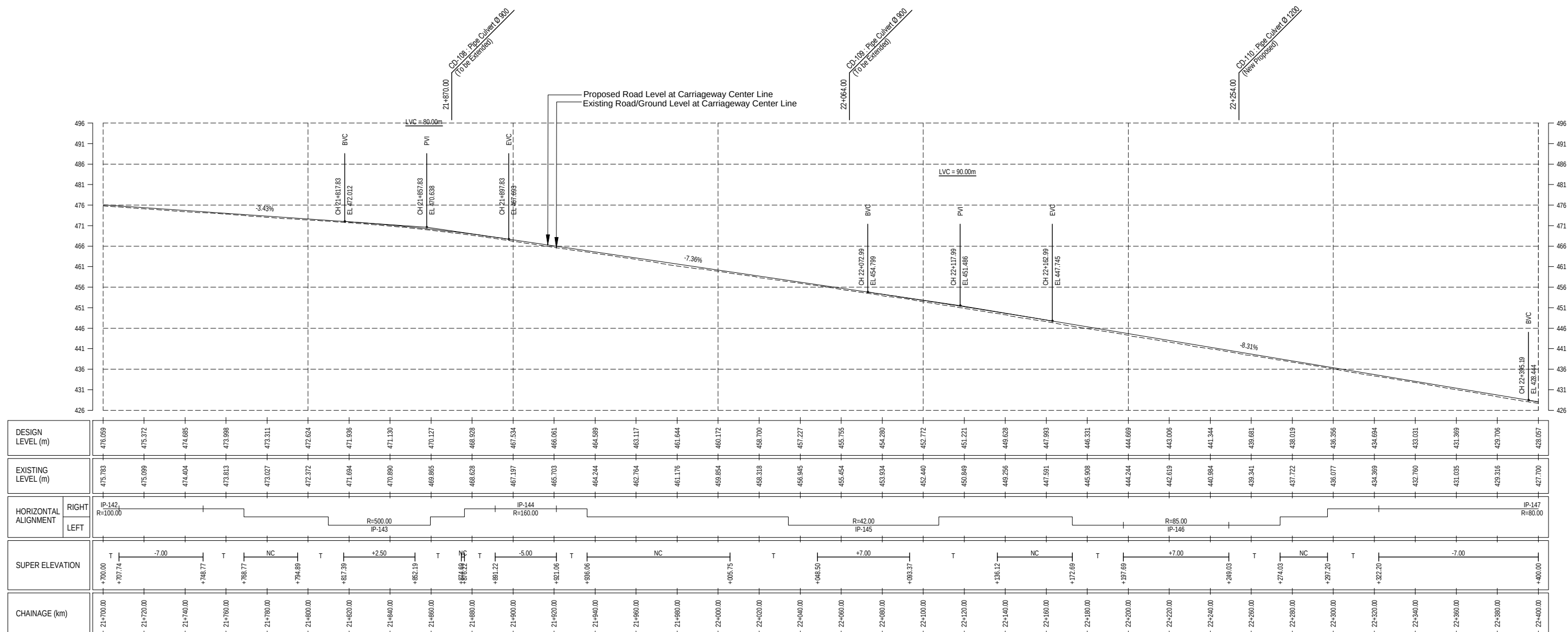
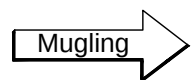
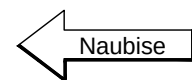


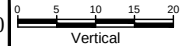
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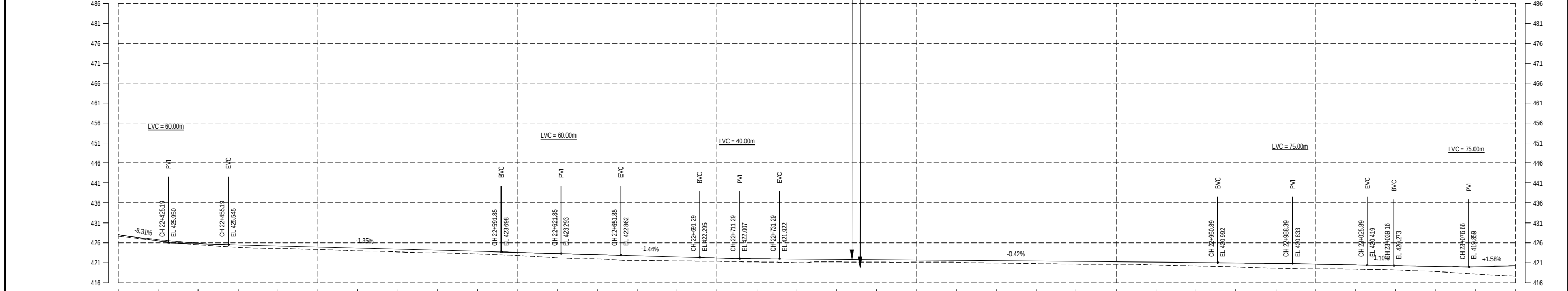
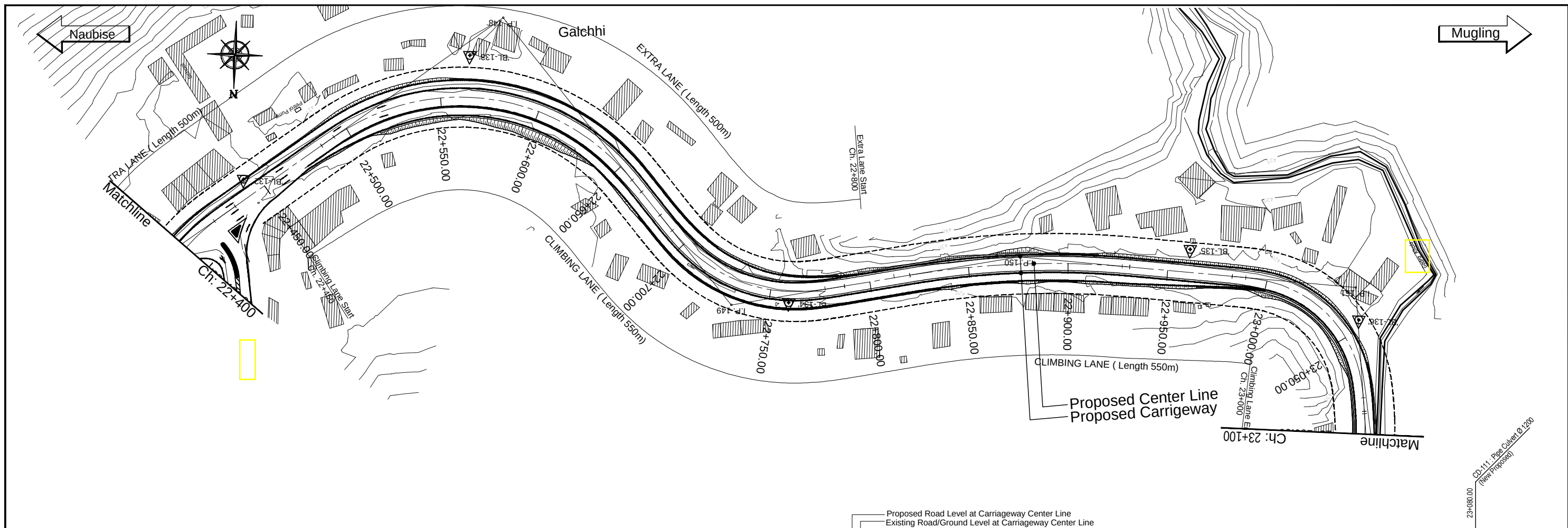
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	EMPLOYER	PROJECT	DESIGN CONSULTANT			Designed By	SB		DRAWING NAME: NAUBISE - MUGLING ROAD PLAN CHAINAGE 21+700.00 TO 22+400.00	Scale:	Date:
	Government of Nepal	Nepal India Regional Trade and Transport Project	 Intercontinental Consultants & Technocrats Pvt. Ltd. A-8, Green Park, New Delhi - 110016 Ph : 4086-3000, Fax 2685-5252 In Association With Full Bright Consultancy (Pvt.) Ltd. 316, Baburam Acharya Sadak Sinamangal, Kathmandu, GPO Box: 4970, Kathmandu, Nepal In Joint Venture With Soosung Engineering Co. Ltd., South Korea 					 Horizontal		August 2019	
	Ministry of Physical Infrastructure and Transport	(NIRTTP)		Checked By	PMS			 Vertical		Drawing No.:	
	Department of Roads	(IDA CREDIT No. 5273 - NEP)		Approved By	BNS					NMR-PP-032	
	Development Cooperation Implementation Division	Detailed Design for Improvement of Kathmandu (Nagdhunga) - Naubise - Mugling Road and Bridges									



	EMPLOYER	PROJECT	DESIGN CONSULTANT			Designed By	SB		DRAWING NAME: NAUBISE - MUGLING ROAD PLAN AND PROFILE CHAINAGE 21+700.00 TO 22+400.00	Scale:	 Horizontal  Vertical	Date:
	Government of Nepal	Nepal India Regional Trade and Transport Project (NIRTPP)	 Intercontinental Consultants & Technocrats Pvt. Ltd. A-8, Green Park, New Delhi - 110016 Ph : 4086-3000, Fax 2685-5252  In Joint Venture With Soosung Engineering Co. Ltd., South Korea	In Association With	 Full Bright Consultancy (Pvt.) Ltd. 316, Baburam Acharya Sadak Sinamangal, Kathmandu, GPO Box: 4970, Kathmandu, Nepal	Checked By	PMS			August 2019		
	Ministry of Physical Infrastructure and Transport	(NIRTPP)										
	Department of Roads	(IDA CREDIT No. 5273 - NEP)										Drawing No.:
	Development Cooperation Implementation Division	Detailed Design for Improvement of Kathmandu (Nagdhunga) - Naubise - Mugling Road and Bridges				Approved By	BNS				NMR-PP-032(a)	



DESIGN LEVEL (m)		428.057	428.739	428.884	425.480	425.209	424.939	424.669	424.399	424.129	423.859	423.589	423.312	423.031	422.744	422.457	422.179	421.896	421.685	421.801	421.716	421.631	421.546	421.462	421.377	421.292	421.207	421.123	421.038	420.950	420.830	420.675	420.483	420.264	420.120	420.120	420.263		
EXISTING LEVEL (m)		427.700	428.445	425.321	424.854	424.555	424.295	423.928	423.702	423.517	423.216	422.803	422.214	421.941	421.539	421.416	421.315	421.188	421.037	421.190	421.155	421.146	421.108	420.953	420.808	420.681	420.636	420.443	420.382	419.923	419.594	419.438	419.345	419.131	418.755	418.171	417.665		
HORIZONTAL ALIGNMENT	RIGHT	IP-147 R=80.00																																					
	LEFT	IP-148 R=110.00																																					
SUPER ELEVATION		-7.00 +407.04 T +432.04 NC T +481.90 +499.90 -7.00 T +651.20 +662.20 NC +681.19 T +706.19 +7.00 T +787.19 NC +805.36 T +827.66 -2.50 +923.41 T +945.91 NC +100.00																																					
CHAINAGE (km)		22+400.00	22+420.00	22+440.00	22+460.00	22+480.00	22+500.00	22+520.00	22+540.00	22+560.00	22+580.00	22+600.00	22+620.00	22+640.00	22+660.00	22+680.00	22+700.00	22+720.00	22+740.00	22+760.00	22+780.00	22+800.00	22+820.00	22+840.00	22+860.00	22+880.00	22+900.00	22+920.00	22+940.00	22+960.00	22+980.00	23+000.00	23+020.00	23+040.00	23+060.00	23+080.00	23+100.00		



EMPLOYER
Government of Nepal
Ministry of Physical Infrastructure and Transport
Department of Roads
Development Cooperation Implementation Division

PROJECT
Nepal India Regional Trade and Transport Project (NIRTP)
(IDA CREDIT No. 5273 - NEP)
Detailed Design for Improvement of Kathmandu (Nagdhunga) - Naubise - Mugling Road and Bridges



DESIGN CONSULTANT
Intercontinental Consultants & Technocrats Pvt. Ltd.
A-8, Green Park, New Delhi - 110016
Ph : 4086-3000, Fax 2685-5252
In Joint Venture With
Soosung Engineering Co. Ltd., South Korea



In Association With
Full Bright Consultancy (Pvt.) Ltd.
316, Baburam Acharya Sadak
Sinamangal, Kathmandu, GPO
Box: 4970, Kathmandu, Nepal

Designed By SB

Checked By PMS

Approved By BNS

DRAWING NAME:
NAUBISE - MUGLING ROAD
PLAN AND PROFILE
CHAINAGE 22+400.00 TO 23+100.00

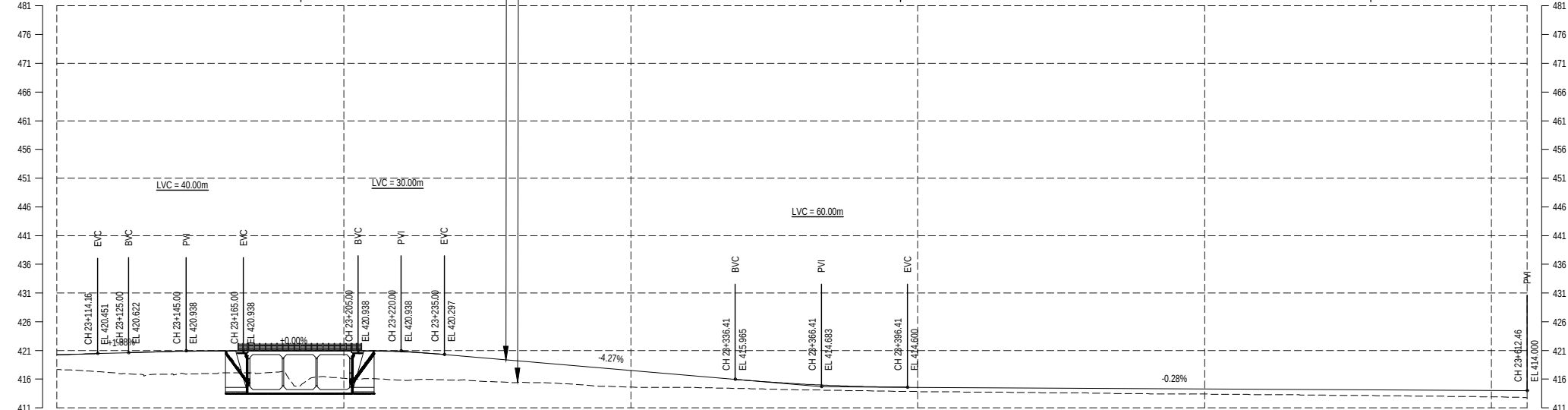
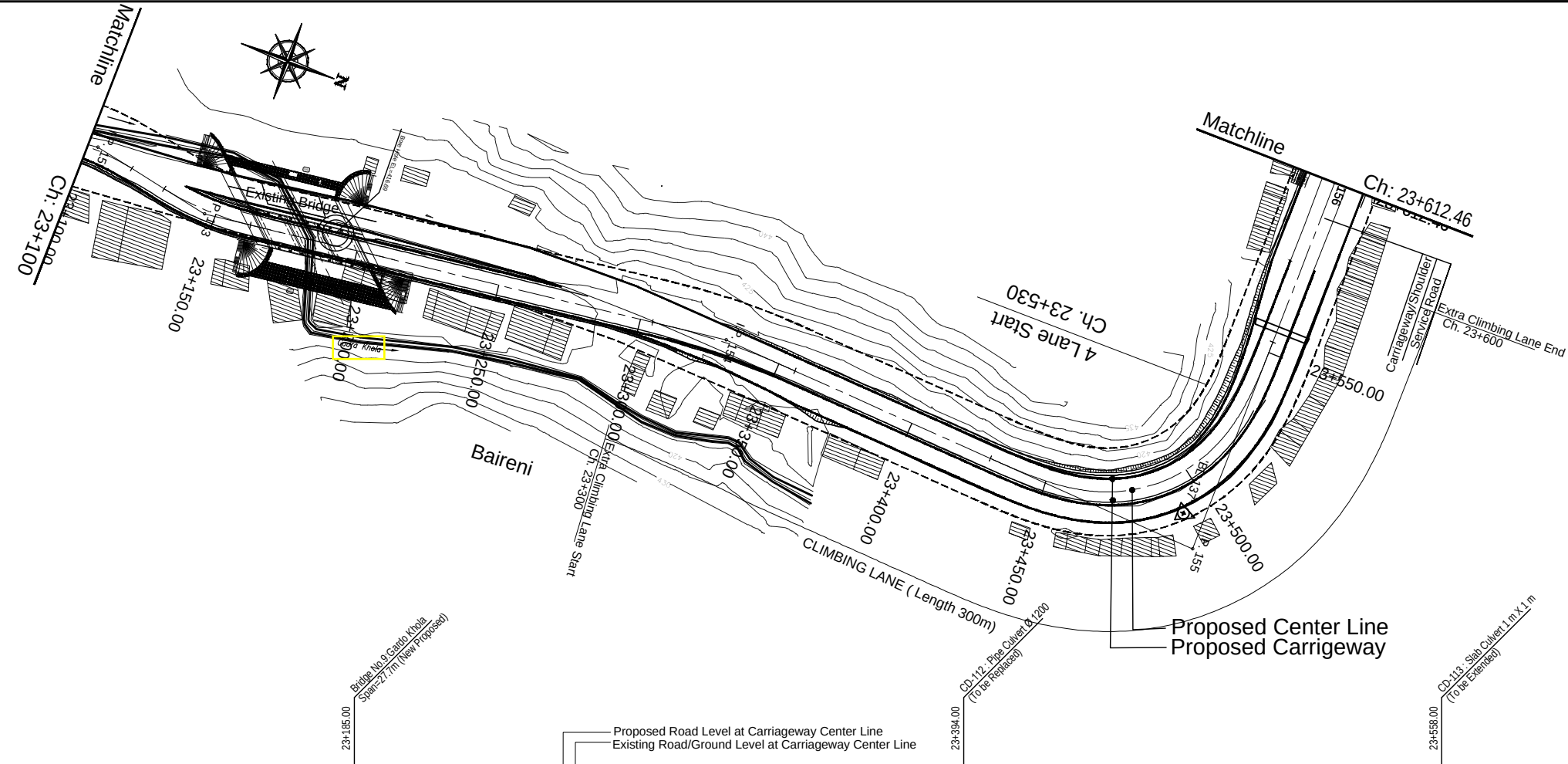
Scale:
Horizontal
Vertical

Date:
August 2019

Drawing No.:
NMR-PP-033

Naubise

Mugling

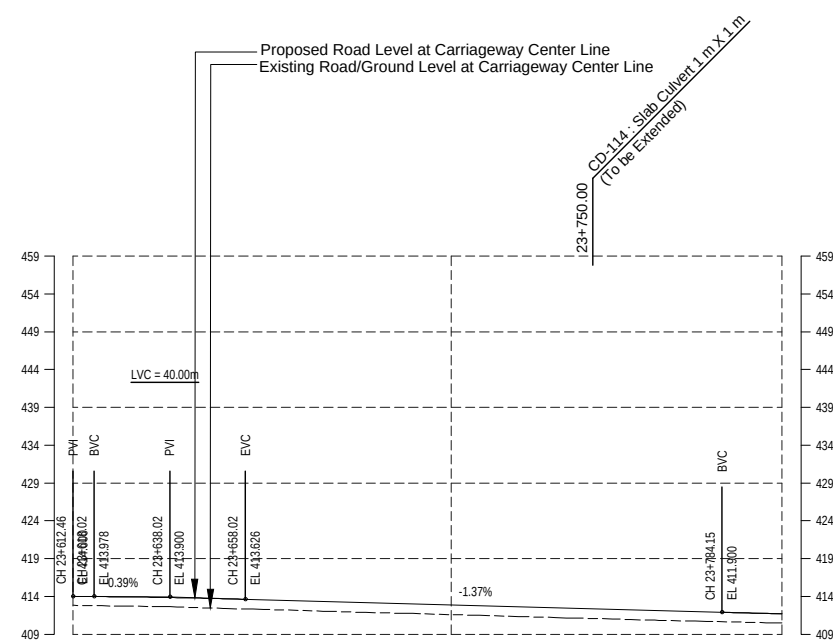
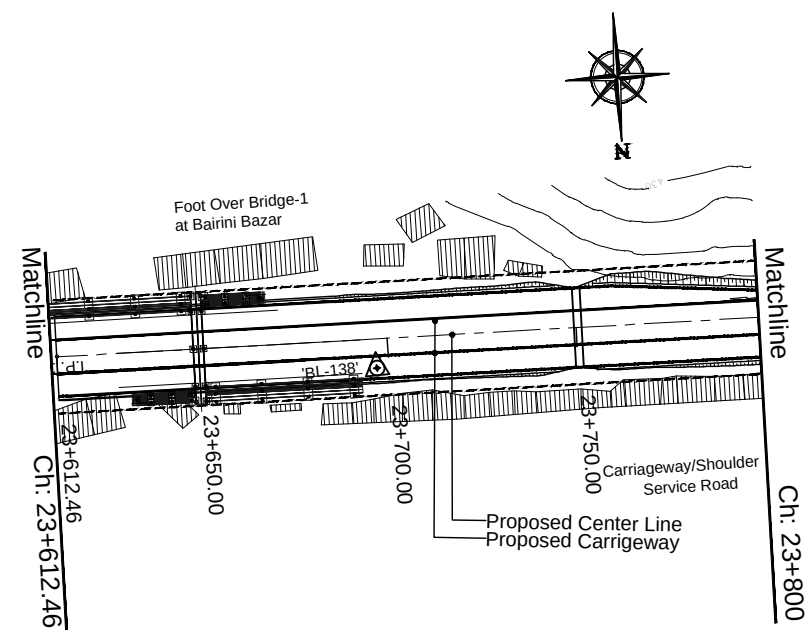


DESIGN LEVEL (m)		420.263																												420.543																												420.815																												420.933																												420.938																												420.938																												420.778																												420.084																												419.229																												418.375																												417.520																												416.666																												415.916																												415.142																												414.735																												414.590																												414.534																												414.479																												414.423																												414.368																												414.312																												414.257																												414.201																												414.146																												414.090																												414.035																												414.000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														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HORIZONTAL ALIGNMENT		RIGHT																												IP-152 R=90.00																												R=100.00																												IP-153																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											

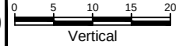
 EMPLOYER Government of Nepal Ministry of Physical Infrastructure and Transport Department of Roads Development Cooperation Implementation Division	PROJECT Nepal India Regional Trade and Transport Project (NIRTP) (IDA CREDIT No. 5273 - NEP) Detailed Design for Improvement of Kathmandu (Nagdhunga) - Naubise - Mugling Road and Bridges	 DESIGN CONSULTANT Intercontinental Consultants & Technocrats Pvt. Ltd. A-8, Green Park, New Delhi - 110016 Ph : 4086-3000, Fax 2685-5252 In Joint Venture With Soosung Engineering Co. Ltd., South Korea	In Association With Full Bright Consultancy (Pvt.) Ltd. 316, Baburam Acharya Sadak Sinamangal, Kathmandu, GPO Box: 4970, Kathmandu, Nepal	Designed By	SB		DRAWING NAME: NAUBISE - MUGLING ROAD PLAN AND PROFILE CHAINAGE 23+100.00 TO 23+612.46	Scale: Horizontal 0 10 20 30 40 Vertical 0 5 10 15 20	Date: August 2019 Drawing No.: NMR-PP-034
				Checked By	PMS				
				Approved By	BNS				

Naubise

Mugling



DESIGN LEVEL (m)	413.970	413.833	413.599	413.325	413.052	412.778	412.504	412.230	411.956	411.681
EXISTING LEVEL (m)	412.771	412.803	412.319	412.031	411.774	411.492	411.208	410.946	410.708	410.481
HORIZONTAL ALIGNMENT	RIGHT LEFT IP-156 R=0.00									
SUPER ELEVATION	NC									
CHAINAGE (km)	23+612.46	23+640.00	23+660.00	23+680.00	23+700.00	23+720.00	23+740.00	23+760.00	23+780.00	23+800.00

 EMPLOYER Government of Nepal Ministry of Physical Infrastructure and Transport Department of Roads Development Cooperation Implementation Division	PROJECT Nepal India Regional Trade and Transport Project (NIRTP) (IDA CREDIT No. 5273 - NEP) Detailed Design for Improvement of Kathmandu (Nagdhunga) - Naubise - Mugling Road and Bridges	 DESIGN CONSULTANT Intercontinental Consultants & Technocrats Pvt. Ltd. A-8, Green Park, New Delhi - 110016 Ph : 4086-3000, Fax 2685-5252 In Joint Venture With Soosung Engineering Co. Ltd., South Korea  Full Bright Consultancy (Pvt.) Ltd. 316, Baburam Acharya Sadak Sinamangal, Kathmandu, GPO Box: 4970, Kathmandu, Nepal	Designed By	SB		DRAWING NAME: NAUBISE - MUGLING ROAD PLAN CHAINAGE 23+612.46 TO 23+800.00	Scale:  Horizontal  Vertical	Date: August 2019 Drawing No.: NMR-PP-035
			Checked By	PMS				
			Approved By	BNS				

