

INFRA 1 – LOT 4
DRAWING

2160.0m Access Road to Adit 5

DESIGN NOTE:

ROAD WORKS

- ALL DIMENSIONS, ELEVATIONS & DETAILS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
- NO DIMENSION SHALL BE MEASURED FROM THE DRAWINGS. ONLY WRITTEN DIMENSIONS TO BE FOLLOWED.
- ALL DIMENSIONS/DETAILS SHALL BE CHECKED ALONG WITH THE RELEVANT DRAWINGS BEFORE STARTING EXECUTION OF WORKS. DISCREPANCY, IF ANY, SHALL BE IMMEDIATELY BROUGHT TO THE NOTICE OF PROJECT AUTHORITY/CONSULTANT FOR REVIEW.
- THE FORMATION CUTTING WIDTH OF THE ROAD SHALL BE 8 METERS.
- THE FORMATION WIDTH IS DIVIDED INTO THREE PARTS; 1 METER DRAIN, 6 METER PAVEMENT WIDTH AND 1 METER SHOULDER AS INDICATED IN TYPICAL SECTION IN THE DRAWING.
- THE GRADIENT OF THE ROAD SHALL NOT EXCEED 10%. IN CASE THE GRADIENT EXCEEDS 10%, SHALL BE IMMEDIATELY BROUGHT TO THE NOTICE OF PROJECT AUTHORITY/CONSULTANT FOR REVIEW.
- IN CASE OF CHANGE IN THE ALIGNMENT, CONTRACTOR AND PROJECT AUTHORITY SHALL IMMEDIATELY BRING TO THE NOTICE OF CONSULTANT FOR THE REVIEW AND POSSIBLE RE-ALIGNMENT.
- FOR THE NEW ALIGNMENT, THE TOPOGRAPHIC SURVEY SHALL BE CARRIED UPTO 20 METERS BOTH SIDE FROM THE CENTERLINE BEFORE EXCAVATION.
- THE CAMBER OF THE ROAD SHELL BE AS PER THE DESIGN AND DRAWINGS.
- THE CONSTRUCTION SHALL BE DONE AS PER THE DESIGN AND THE INSTRUCTION OF THE SITE ENGINEER.

HUME PIPE INSTALATION

- DO NOT MEASURE THE DIMENSIONS FROM THE DRAWING.
- THE PIPES SHALL BE LAID AFTER THE FOUNDATION IS WELL CURED AND APPROVED BY THE ENGINEER-IN-CHARGE.
- IN PLACES WHERE TWO OR MORE PIPES ARE TO BE LAID ADJACENT TO EACH OTHER, THE PIPES SHALL BE SEPARATED BY A DISTANCE OF A MINIMUM 450 MM OR EQUAL TO HALF THE DIAMETER OF THE PIPE.
- PROPER CARE SHALL BE TAKEN WHILE LIFTING, LOADING, UNLOADING, AND LOWERING OF CONCRETE PIPES AT A FACTORY OR SITE SO THAT THE PIPES DO NOT SUFFER ANY UNDUE STRUCTURAL STRAIN, ANY DAMAGE DUE TO FALL OR IMPACT.
- ANY PIPE FOUND DEFECTIVE OR DAMAGED DURING LAYING SHALL BE REMOVED AT THE COST OF THE CONTRACTOR.
- THE BACKFILLING OF THE TRENCHES SHALL BE CARRIED OUT IMMEDIATELY AFTER THE PIPES ARE PLACED, AND THE JOINTING MATERIAL HAS HARDENED.
- THE BACKFILLING UP TO 300 MM ABOVE THE TOP OF THE PIPE SHALL BE CARRIED OUT CAREFULLY, AND THE SOIL SHALL BE RAMMED, TAMPED, OR VIBRATED IN LAYERS NOT EXCEEDING 150 MM, PARTICULAR CARE BEING TAKEN TO CONSOLIDATE THE MATERIALS UNDER THE LAUNCHES OF THE PIPE THOROUGHLY.
- THE FILLING OF THE TRENCH ON BOTH SIDES OF THE PIPE SHALL BE CARRIED OUT SIMULTANEOUSLY SO THAT UNEQUAL PRESSURES DO NOT OCCUR.
- IN CASE OF THE HIGH EMBANKMENT, AFTER FILLING THE TRENCH UP TO THE TOP OF THE PIPE IN THE ABOVE-SAID MANNER, A LOOSE-FILL SHALL BE PLACED OVER THE PIPE TO A DEPTH EQUAL TO THE EXTERNAL DIAMETER OF THE PIPE AND COMPACTED.

CULVERT CONSTRUCTION:


- ALL DIMENSIONS, ELEVATIONS & DETAILS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
- NO DIMENSION SHALL BE MEASURED FROM THE DRAWINGS. ONLY WRITTEN DIMENSIONS TO BE FOLLOWED.
- THE FOUNDATION OF CULVERT TO LAID ON ORIGINAL SOIL MAINTAINING THE SLOPES AS SHOWN IN THE SECTION.
- USE M25 GRADE CONCRETE AND Fe500 STEEL FOR THE CONSTRUCTION OF CULVERT SLAB AND ABUTMENT.
- PROVIDE 30MM CLEAR COVER FOR SLAB AND 40MM FOR THE ABUTMENT.
- PROVIDE 100MM DIAMETER STEEL CHAIR @ 1METER CENTER TO CENTER FOR CULVERT SLAB AND FOOTING.
- THE HEIGHT OF ABUTMENT MAY CHANGE AS PER THE SITE CONDITION, ANY SUCH CHANGE SHALL BE IMMEDIATELY BROUGHT TO THE NOTICE OF PROJECT AUTHORITY/CONSULTANT FOR REVIEW.
- THE DRAINAGE HOLE SHALL BE PROVIDED BOTH IN DECK SLAB AND THE ABUTMENT AS DETAILS SHOWN IN THE SECTIONS.
- THE BACKFILLING OF SHALL BE DONE IN LAYER OF 300MM PROVIDING PROPER FILTER MATERIALS AT DRAINAGE HOLES.
- DEVELOPMENT LENGTH OF REINFORCEMENT SHALL BE PROVIDED 57Ø OF THE REINFORCEMENT.
- ALL DIMENSIONS/DETAILS SHALL BE CHECKED ALONG WITH THE RELEVANT DRAWINGS BEFORE STARTING EXECUTION OF WORKS. DISCREPANCY, IF ANY, SHALL BE IMMEDIATELY BROUGHT TO THE NOTICE OF PROJECT AUTHORITY/CONSULTANT FOR REVIEW.

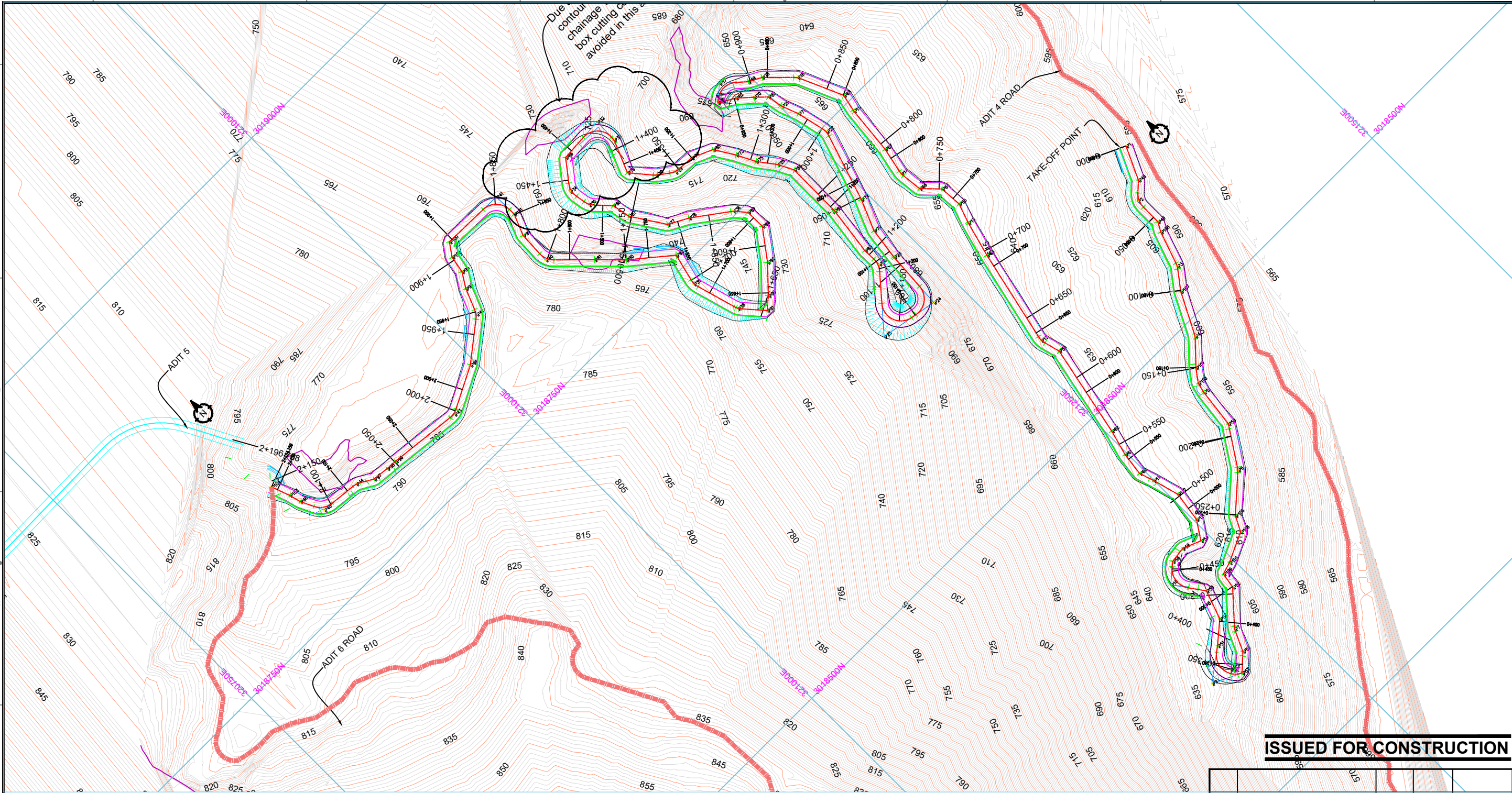
RETAINING WALL CONSTRUCTION:

- ALL DIMENSIONS, ELEVATIONS & DETAILS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
- NO DIMENSION SHALL BE MEASURED FROM THE DRAWINGS. ONLY WRITTEN DIMENSIONS TO BE FOLLOWED.
- THE HEIGHT OF THE RETAINING WALL SHALL NOT EXCEED ($H = 0.4B + 0.3$) AND IT IS TO BE DIVIDED INTO PANELS LENGTH NOT EXCEEDING 5M.
- THE FOUNDATION OF WALL TO LAID ON ORIGINAL SOIL MAINTAINING THE SLOPES AS SHOWN IN THE SECTION.
- THE BACKFILLING OF SHALL BE DONE IN LAYER OF 300MM PROVIDING PROPER FILTER MATERIALS AT WEEP HOLES.
- THE WEEP HOLE SHALL BE PROVIDED AT DISTANCE NOT EXCEEDING 1.5 METER C/C IN BOTH THE DIRECTION.
- ALL DIMENSIONS/DETAILS SHALL BE CHECKED ALONG WITH THE RELEVANT DRAWINGS BEFORE STARTING EXECUTION OF WORKS. DISCREPANCY, IF ANY, SHALL BE IMMEDIATELY BROUGHT TO THE NOTICE OF PROJECT AUTHORITY/CONSULTANT FOR REVIEW.



ISSUED FOR CONSTRUCTION

Rev	Modification	Drawn:	Checked:	Recommended:	Approved:
Client: DORJILUNG HYDROPOWER PROJECT					
Project: DORJILUNG HYDROPOWER PROJECT (1125 MW) MONGAR, BHUTAN					
Title: DORJILUNG ADIT 5 ROAD DESIGN NOTES SHEET 0 OF 25					
CONSULTANT: 		NAME	SIG.		
		Designed			
		Drawn			
		Checked			
		Approved			
		Issued Date	NOV 2024		
Original Size A3	Original Scale AS SHOWN	DRAWING NO. DHPP-ADIT-5-ROAD-2024-00			REV NA



ISSUED FOR CONSTRUCTION

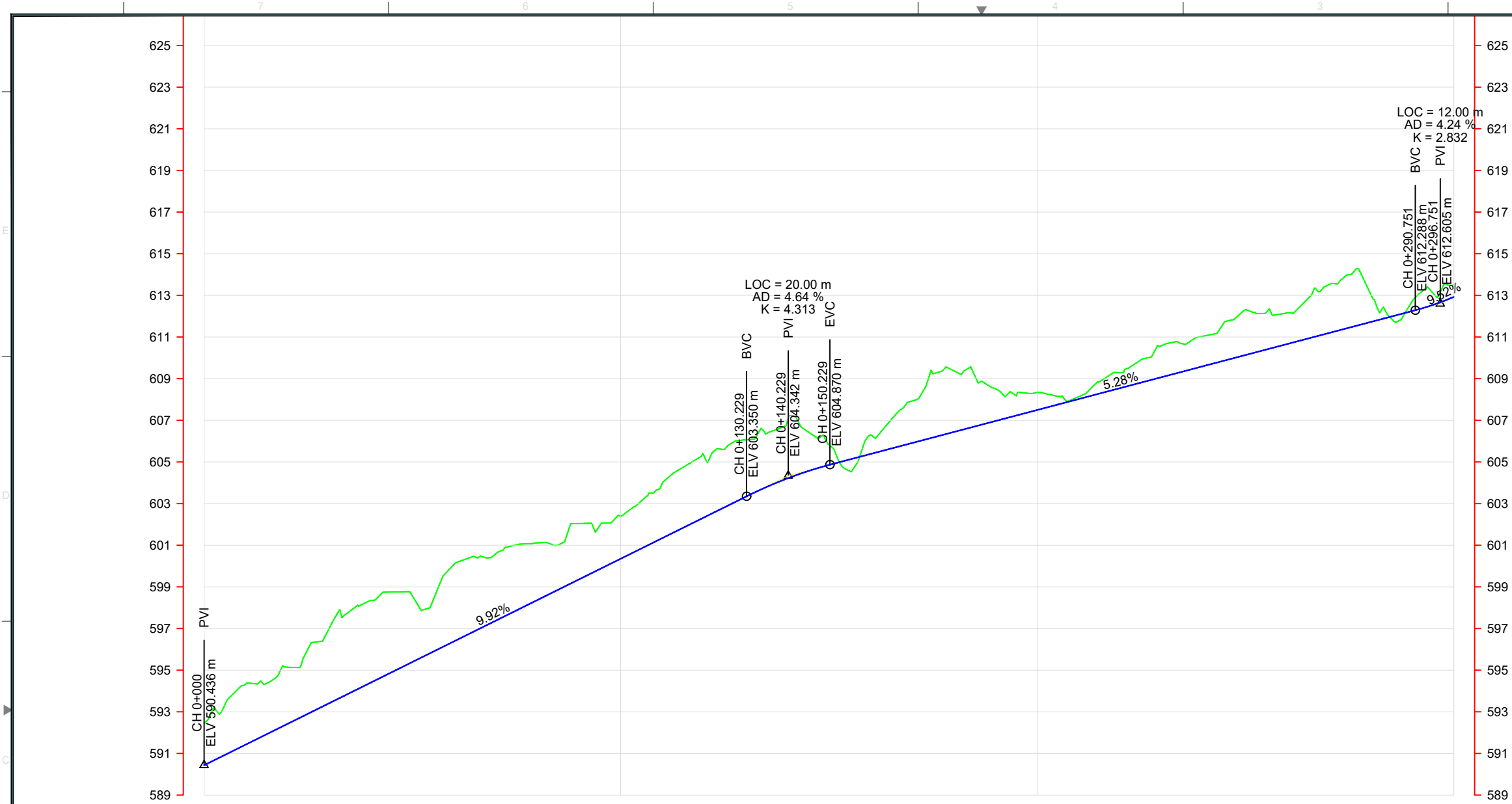
Rev	Modification	Drawn	Checked	Recommended	Approved
Client: DORJILUNG HYDROPOWER PROJECT					
Project: DORJILUNG HYDROPOWER PROJECT (1125 MW) MONGAR, BHUTAN					
Title: DORJILUNG ADIT 5 ROAD GENERAL PLAN SHEET 1 OF 25					
CONSULTANT:		NAME	SIG.		
		Designed			
		Drawn			
		Checked			
		Approved			
		Issued Date	NOV 2024		
Original Size	Original Scale	DRAWING NO.	REV		
A3	AS SHOWN	DHPP-ADIT-5-ROAD-2024-01	NA		

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SCALE 1 : 2500



CHAINAGE : 0+000 - 0+300

IP No.	CO-ORDINATES(m)	
	EASTING	NORTHING
1	321386.769	3018606.311
IP48	321377.089	3018585.593
2	321367.287	3018576.480
IP49	321367.206	3018558.335
IP106	321363.885	3018552.421
3	321356.128	3018529.861
IP107	321346.306	3018516.981
4	321332.714	3018490.533
IP107	321319.056	3018476.173
IP108	321313.121	3018468.195
5	321311.526	3018461.686
IP50	321308.462	3018436.668
6	321292.134	3018411.755
IP105	321270.617	3018392.568
IP106	321265.702	3018382.931
IP110	321246.939	3018374.188
IP109	321239.153	3018371.762
IP52	321237.494	3018361.806




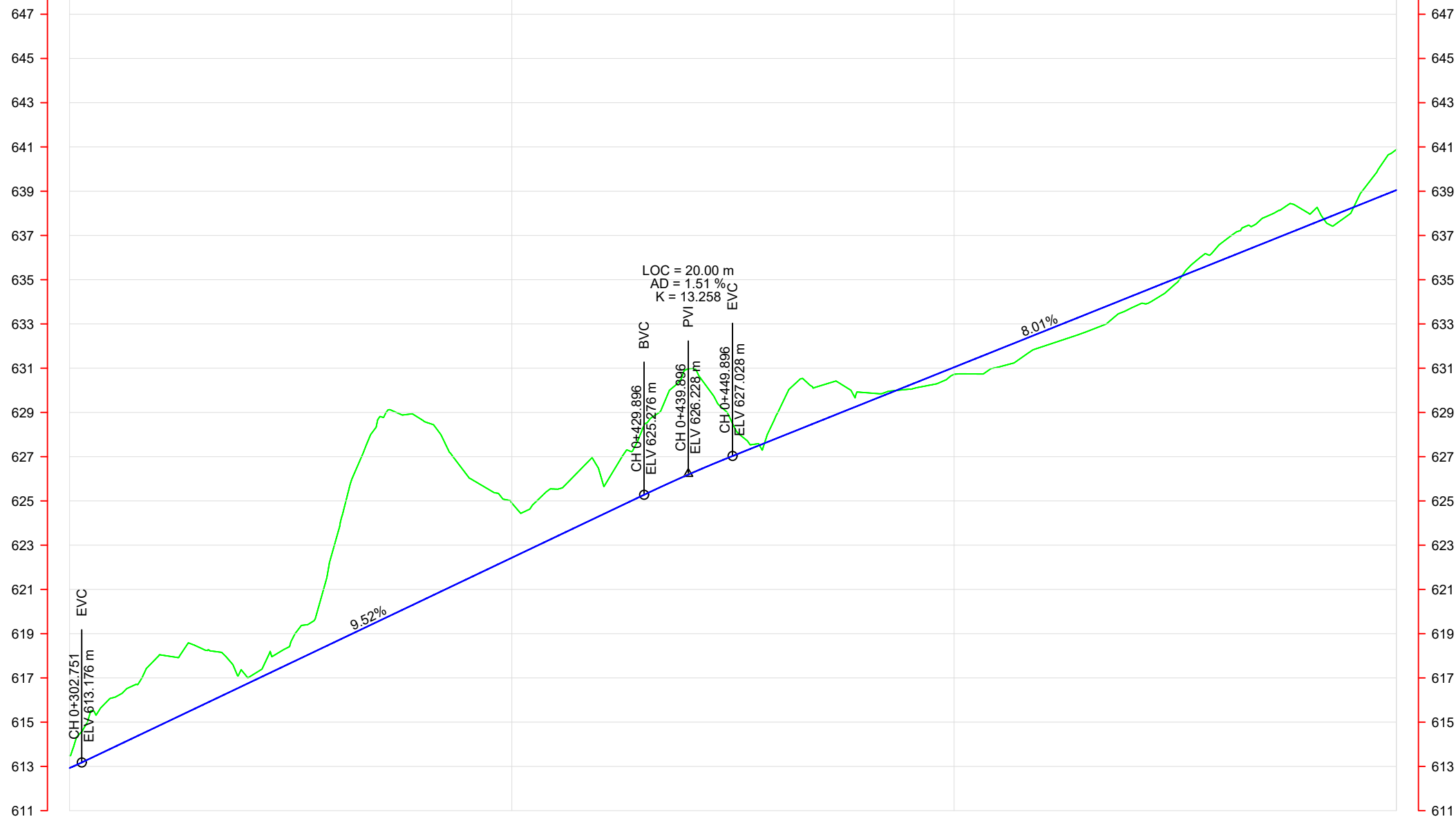
DESIGN LEVEL(m)	590.436 592.430 594.337 596.147 597.003 598.351 599.567 600.081 600.587 601.115 602.042 602.396 603.984 605.294 606.053 606.952 605.830 606.306 607.932 609.379 608.518 608.345 608.142 609.290 610.600 611.048 612.319 612.157 613.513 613.079 612.718 613.484																															
EXISTING LEVEL(m)	592.430 594.337 596.147 597.003 598.351 599.567 600.081 600.587 601.115 602.042 602.396 603.984 605.294 606.053 606.952 605.830 606.306 607.932 609.379 608.518 608.345 608.142 609.290 610.600 611.048 612.319 612.157 613.513 613.079 612.718 613.484																															
CHAINAGE(Km)	0+000 0+010 0+020 0+030 0+040 0+050 0+060 0+070 0+080 0+090 0+100 0+110 0+120 0+130 0+140 0+150 0+160 0+170 0+180 0+190 0+200 0+210 0+220 0+230 0+240 0+250 0+260 0+270 0+280 0+290 0+300																															
HORIZONTAL SCHEMATIC																																
	L=22.867 L=8.187 L=9.808 R=12 L=12.949 L=6.782 L=21.918 L=14.259 L=28.011 L=18.092 L=9.943 L=24.493 L=28.204 L=27.245 L=10.818 L=20.700 L=8.155 L=9.735																															
SUPER ELEVATION SCHEMATIC	0+000 SE:4% 0+300																															

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ISSUED FOR CONSTRUCTION

Rev	Modification	Drawn:	Checked:	Recommended:	Approved:
Client: DORJILUNG HYDROPOWER PROJECT					
Project: DORJILUNG HYDROPOWER PROJECT (1125 MW) MONGAR, BHUTAN					
Title: DORJILUNG ADIT 5 ROAD PROFILE (CHAINAGE 0-300M)					
SHEET 2 OF 25					
CONSULTANT:		NAME	SIG.		
		Designed			
		Drawn			
		Checked			
		Approved			
Issued Date		NOV 2024			
Original Size A3	Original Scale AS SHOWN	DRAWING NO. DHPP-ROAD-ADIT-5-2024-02			REV NA



CHAINAGE : 0+300 - 0+600

IP No.	CO-ORDINATES(m)	
	EASTING	NORTHING
IP52	321237.494	3018361.806
7	321219.633	3018342.333
IP53	321213.369	3018328.620
IP53	321203.413	3018319.302
9	321185.161	3018327.982
IP51	321204.562	3018342.405
IP57	321217.582	3018353.382
IP58	321224.091	3018371.890
10	321210.864	3018390.450
IP56	321222.043	3018400.029
IP59	321232.260	3018401.375
IP54	321244.003	3018396.652
IP111	321251.534	3018408.140
IP112	321254.470	3018427.669
11	321249.768	3018444.724
IP60	321246.689	3018454.121
IP61	321248.633	3018469.026
IP62	321253.170	3018485.470

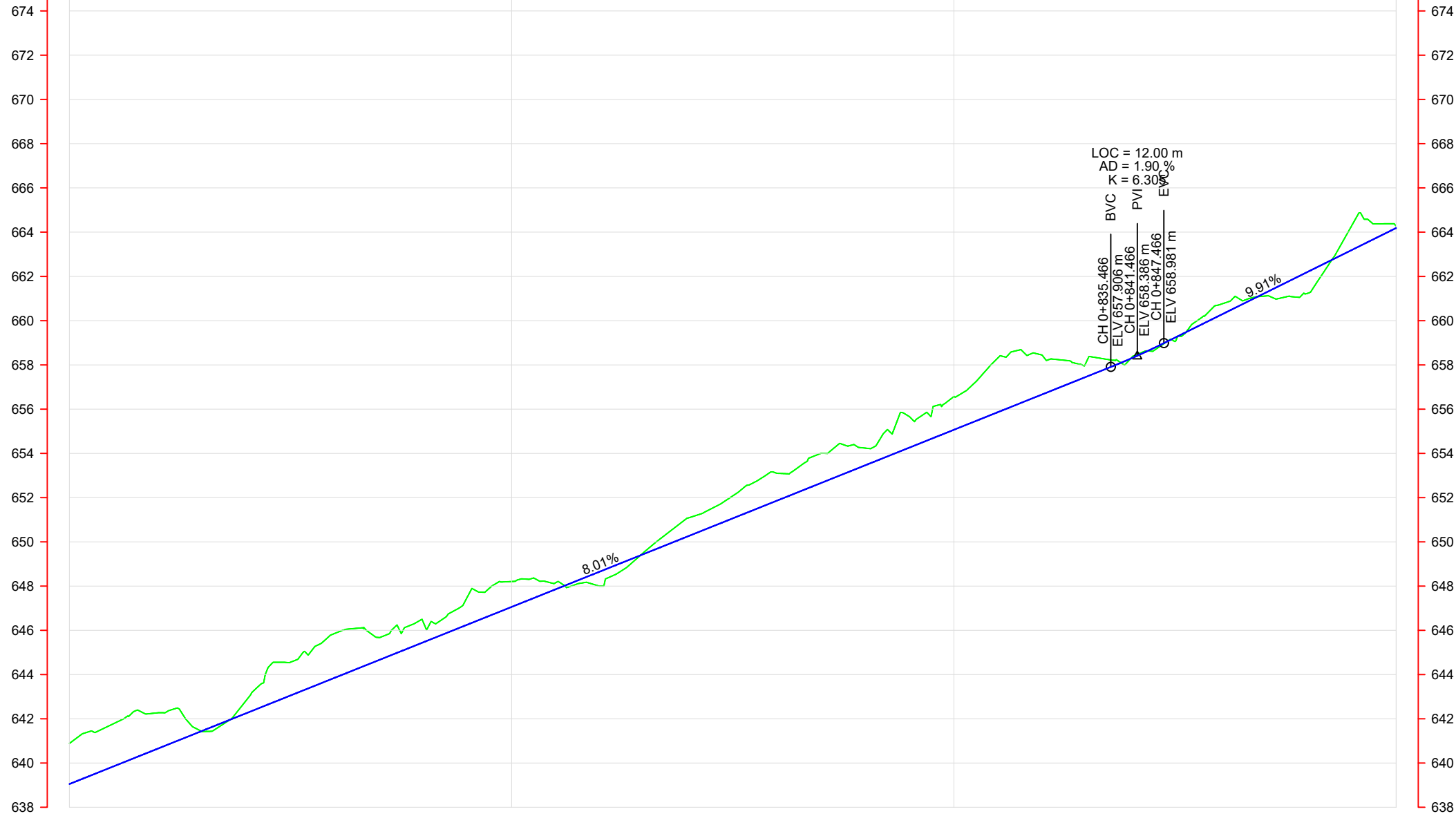
DESIGN LEVEL(m)																																
EXISTING LEVEL(m)																																
CHAINAGE(Km)																																
HORIZONTAL SCHEMATIC																																
SUPER ELEVATION SCHEMATIC																																

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ISSUED FOR CONSTRUCTION

Rev	Modification	Drawn	Checked	Recommended	Approved
Client: DORJILUNG HYDROPOWER PROJECT					
Project: DORJILUNG HYDROPOWER PROJECT (1125 MW) MONGAR, BHUTAN					
Title: DORJILUNG ADIT 5 ROAD PROFILE(CHAINAGE 300-600M)					
SHEET 3 OF 25					
CONSULTANT:		NAME	SIG.		
		Designed			
		Drawn			
		Checked			
		Approved			
Issued Date		NOV 2024			
Original Size A3	Original Scale AS SHOWN	DRAWING NO. DHPP-ROAD-ADIT-5-2024-03			REV NA



CHAINAGE : 0+600 - 0+900

IP No.	CO-ORDINATES(m)	
	EASTING	NORTHING
IP62	321253.170	3018485.470
IP55	321265.402	3018544.685
12	321261.999	3018557.403
IP63	321275.932	3018619.616
13	321282.089	3018642.460
IP65	321286.443	3018654.975
IP64	321285.491	3018669.192
IP66	321275.629	3018679.439
14	321274.009	3018694.344
IP67	321277.816	3018712.408
15	321280.894	3018743.433
IP68	321283.405	3018754.855
16	321270.708	3018783.592
IP70	321254.911	3018799.307




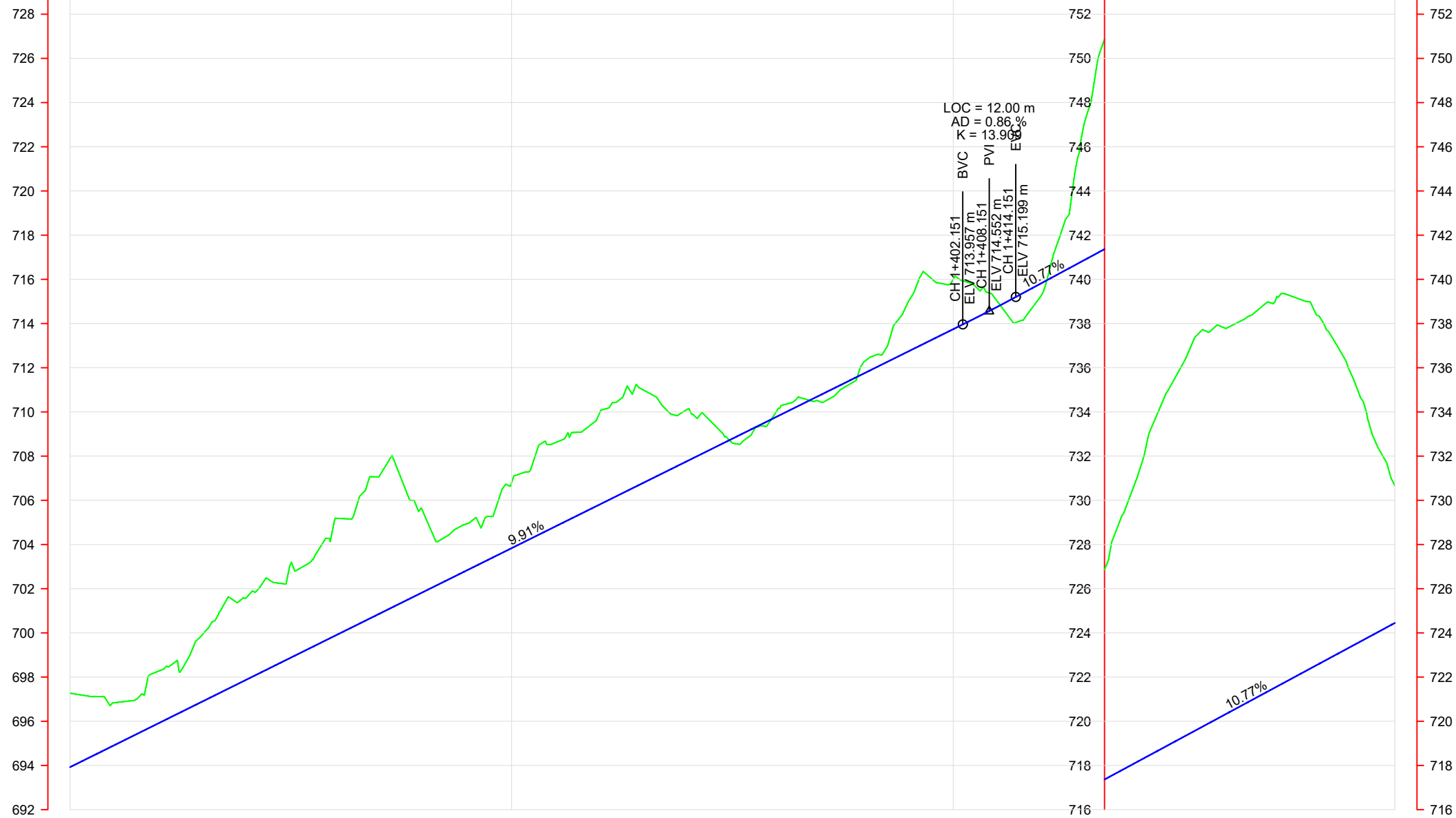
DESIGN LEVEL(m)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				</
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ISSUED FOR CONSTRUCTION

Rev	Modification	Drawn	Checked	Recommended	Approved
Client: DORJILUNG HYDROPOWER PROJECT					
Project: DORJILUNG HYDROPOWER PROJECT (1125 MW) MONGAR, BHUTAN					
Title: DORJILUNG ADIT 5 ROAD PROFILE (CHAINAGE 600-900M)					
SHEET 4 F 23					
CONSULTANT:		NAME	SIG.		
		Designed			
		Drawn			
		Checked			
		Approved			
		Issued Date	NOV 2024		
Original Size A3	Original Scale AS SHOWN	DRAWING NO. DHPP-ROAD-ADIT-5-2024-04		REV NA	



CHAINAGE : 1+200 - 1+500

IP No	CO-ORDINATES(m)	
	EASTING	NORTHING
26	321223.927	3018663.764
IP83	321223.562	3018676.199
27	321227.774	3018707.467
IP84	321228.038	3018743.676
28	321222.934	3018753.640
IP75	321214.672	3018764.616
IP73	321208.779	3018776.200
IP85	321200.901	3018788.999
IP74	321187.697	3018794.832
29	321173.926	3018795.723
30	321163.800	3018803.094
IP76	321152.378	3018816.784
31	321161.100	3018837.653
32	321161.547	3018853.097
IP86	321131.620	3018851.212
34	321118.295	3018834.201
35	321120.725	3018819.701

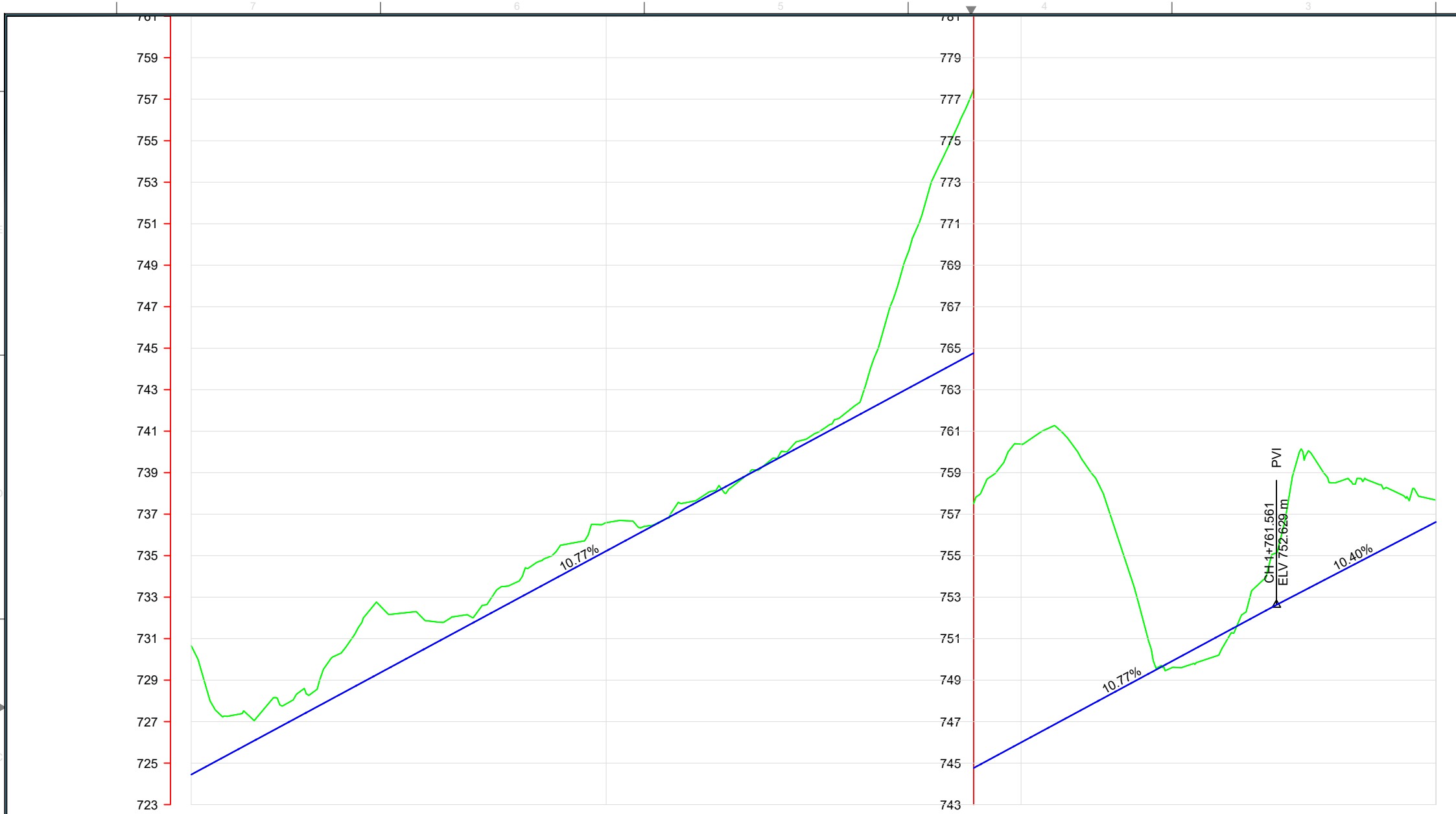


DESIGN LEVEL(m)	693.922																															
EXISTING LEVEL(m)	697.272																															
CHAINAGE(Km)	1+200																															
HORIZONTAL SCHEMATIC	L=8.952 R=12																															
SUPER ELEVATION SCHEMATIC	SE:4%																															
	1+210																															
	696.837																															
	1+220																															
	698.264																															
	1+230																															
	699.924																															
	1+240																															
	701.610																															
	1+250																															
	703.138																															
	1+260																															
	705.139																															
	1+270																															
	707.079																															
	1+280																															
	705.443																															
	1+290																															
	704.945																															
	1+300																															
	706.800																															
	1+310																															
	708.614																															
	1+320																															
	709.983																															
	1+330																															
	710.973																															
	1+340																															
	710.135																															
	1+350																															
	708.584																															
	1+360																															
	710.030																															
	1+370																															
	710.454																															
	1+380																															
	712.299																															
	1+390																															
	715.048																															
	1+400																															
	716.008																															
	1+410																															
	714.995																															
	1+420																															
	715.286																															
	1+430																															
	723.284																															
	1+440																															
	730.165																															
	1+450																															
	735.459																															
	1+460																															
	737.919																															
	1+470																															
	738.785																															
	1+480																															
	738.997																															
	1+490																															
	735.759																															
	1+500																															
	730.656																															

ISSUED FOR CONSTRUCTION

Rev	Modification	Drawn	Checked	Recommended	Approved
Client: DORJILUNG HYDROPOWER PROJECT					
Project: DORJILUNG HYDROPOWER PROJECT (1125 MW) MONGAR, BHUTAN					
Title: DORJILUNG ADIT 5 ROAD PROFILE(CHAINAGE 1200-1500M)					
SHEET 6 OF 25					
CONSULTANT:		NAME	SIG.		
		Designed			
		Drawn			
		Checked			
		Approved			
		Issued Date	NOV 2024		
Original Size A3	Original Scale AS SHOWN	DRAWING NO. DHPP-ROAD-ADIT-5-2024-06		REV NA	

- NOTE:
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 - ALL DIMENSIONS/DETAILS SHALL BE CHECKED ALONG WITH THE RELEVANT DRAWINGS BEFORE STARTING EXECUTION OF WORKS. DISCREPANCY, IF ANY, SHALL BE IMMEDIATELY BROUGHT TO THE NOTICE OF PROJECT AUTHORITY/CONSULTANT FOR REVIEW.



CHAINAGE : 1+500 - 1+800

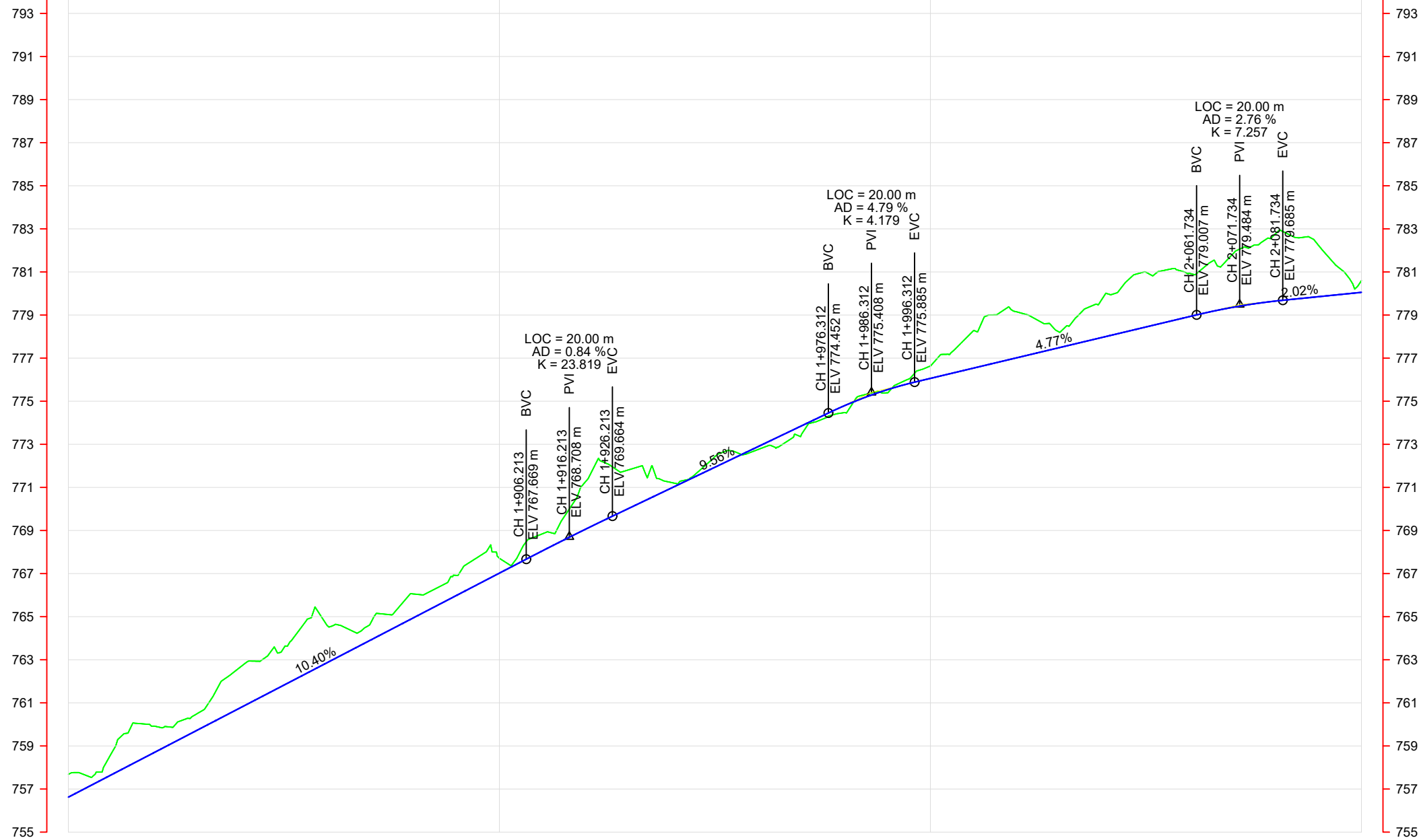
IP No.	CO-ORDINATES(m)	
	EASTING	NORTHING
35	321120.725	3018819.701
IP88	321131.337	3018808.522
IP87	321133.524	3018796.938
IP77	321147.194	3018775.795
IP78	321159.567	3018769.153
36	321182.330	3018752.547
IP89	321188.446	3018745.378
IP98	321188.689	3018732.822
IP92	321174.918	3018714.352
IP90	321160.337	3018699.083
IP91	321153.187	3018692.972
38	321140.896	3018707.062
39	321132.228	3018737.601
IP92	321137.331	3018758.258
IP80	321112.888	3018778.469
IP81	321098.874	3018792.726
40	321076.840	3018814.516



ISSUED FOR CONSTRUCTION

Rev	Modification	Drawn	Checked	Recommended	Approved
Client: DORJILUNG HYDROPOWER PROJECT					
Project: DORJILUNG HYDROPOWER PROJECT (1125 MW) MONGAR, BHUTAN					
Title: DORJILUNG ADIT 5 ROAD PROFILE (CHAINAGE 1500-1800M)					
SHEET 7 OF 25					
CONSULTANT:		NAME	SIG.		
		Designed			
		Drawn			
		Checked			
		Approved			
		Issued Date	NOV 2024		
Original Size A3	Original Scale AS SHOWN	DRAWING NO. DHPP-ROAD-ADIT-5-2024-07			REV NA

- NOTE:
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CHAINAGE : 1+800 - 2+100

IP No.	CO-ORDINATES(m)	
	EASTING	NORTHING
40	321076.840	3018814.516
IP99	321077.792	3018835.375
IP101	321083.381	3018848.984
41	321083.057	3018864.537
IP100	321042.109	3018865.428
IP102	321036.438	3018857.409
IP95	321034.332	3018846.513
IP93	321028.540	3018837.238
42	321021.898	3018821.037
IP94	320996.462	3018801.110
43	320967.300	3018786.286
IP96	320920.241	3018791.511
IP98	320913.094	3018792.021
IP97	320902.627	3018793.170
44	320892.416	3018799.041



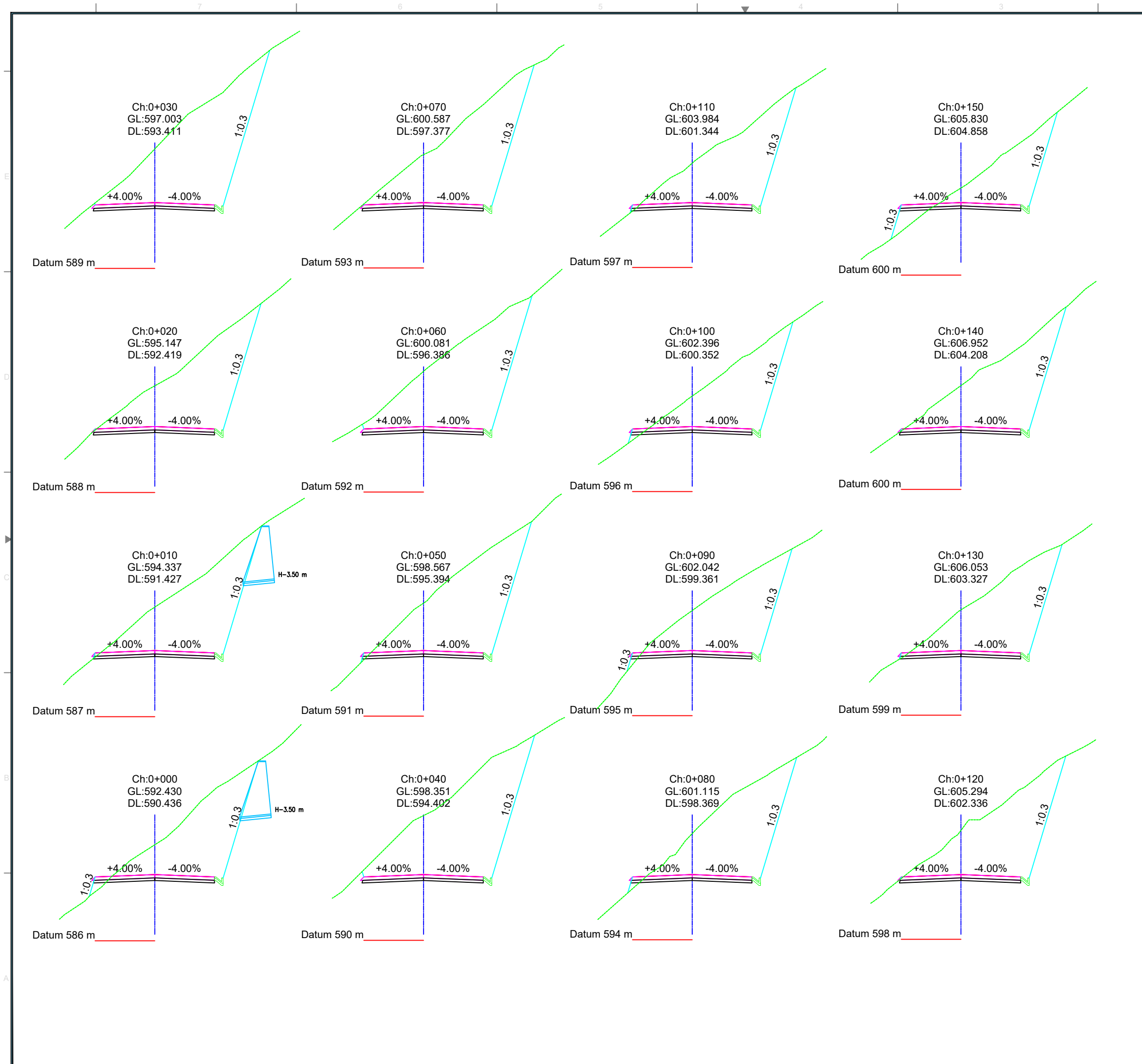
DESIGN LEVEL(m)	756.625	757.685	758.668	759.920	760.516	762.680	763.556	764.597	766.055	766.918	767.709	768.849	771.271	771.817	772.432	772.758	775.389	776.637	778.280	779.150	779.800	780.989	780.943	781.805	782.759	782.243	780.599							
EXISTING LEVEL(m)																																		
CHAINAGE(Km)	1+800	1+810	1+820	1+830	1+840	1+850	1+860	1+870	1+880	1+890	1+900	1+910	1+920	1+930	1+940	1+950	1+960	1+970	1+980	1+990	2+000	2+010	2+020	2+030	2+040	2+050	2+060	2+070	2+080	2+090	2+100			
HORIZONTAL SCHEMATIC	L=10.04	L=10.03	L=15.547	L=14.712	L=18.339	L=29.459	L=9.822	L=11.091	L=10.933	L=14.336	L=29.138	L=29.127	L=43.761	L=7.166	L=10.528	L=9.223	L=4.461	L=10.04	L=10.03	L=15.547	L=14.712	L=18.339	L=29.459	L=9.822	L=11.091	L=10.933	L=14.336	L=29.138	L=29.127	L=43.761	L=7.166	L=10.528	L=9.223	L=4.461
SUPER ELEVATION SCHEMATIC	SE:4%	SE:4%	SE:4%	SE:4%	SE:4%	SE:4%	SE:4%	SE:4%	SE:4%	SE:4%	SE:4%	SE:4%	SE:4%	SE:4%	SE:4%	SE:4%	SE:4%	SE:4%	SE:4%	SE:4%	SE:4%	SE:4%	SE:4%	SE:4%	SE:4%	SE:4%	SE:4%	SE:4%	SE:4%	SE:4%	SE:4%	SE:4%	SE:4%	

NOTE:

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ISSUED FOR CONSTRUCTION


Rev	Modification	Drawn	Checked	Recommended	Approved
Client: DORJILUNG HYDROPOWER PROJECT					
Project: DORJILUNG HYDROPOWER PROJECT (1125 MW) MONGAR, BHUTAN					
Title: DORJILUNG ADIT 5 ROAD PROFILE (CHAINAGE 1800-2100M)					
SHEET 8 OF 25)					
CONSULTANT:		NAME	SIG.		
		Designed			
		Drawn			
		Checked			
		Approved			
		Issued Date	NOV 2024		
Original Size	A3	Original Scale	AS SHOWN	DRAWING NO.	REV
				DHPP-ROAD-ADIT-5-2024-08	NA



- NOTE:
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ISSUED FOR CONSTRUCTION


Rev	Modification	Drawn	Checked	Recommended	Approved
Client: DORJILUNG HYDROPOWER PROJECT					
Project: DORJILUNG HYDROPOWER PROJECT (1125 MW) MONGAR, BHUTAN					
Title: DORJILUNG ADIT 5 ROAD CROSS SECTION SHEET 10 OF 25					
CONSULTANT:		NAME	SIG.		
		Designed			
		Drawn			
		Checked			
		Approved			
		Issued Date	NOV 2024		
Original Size A3	Original Scale AS SHOWN	DRAWING NO. DHPP-ROAD-ADIT-5-2024-10			REV NA

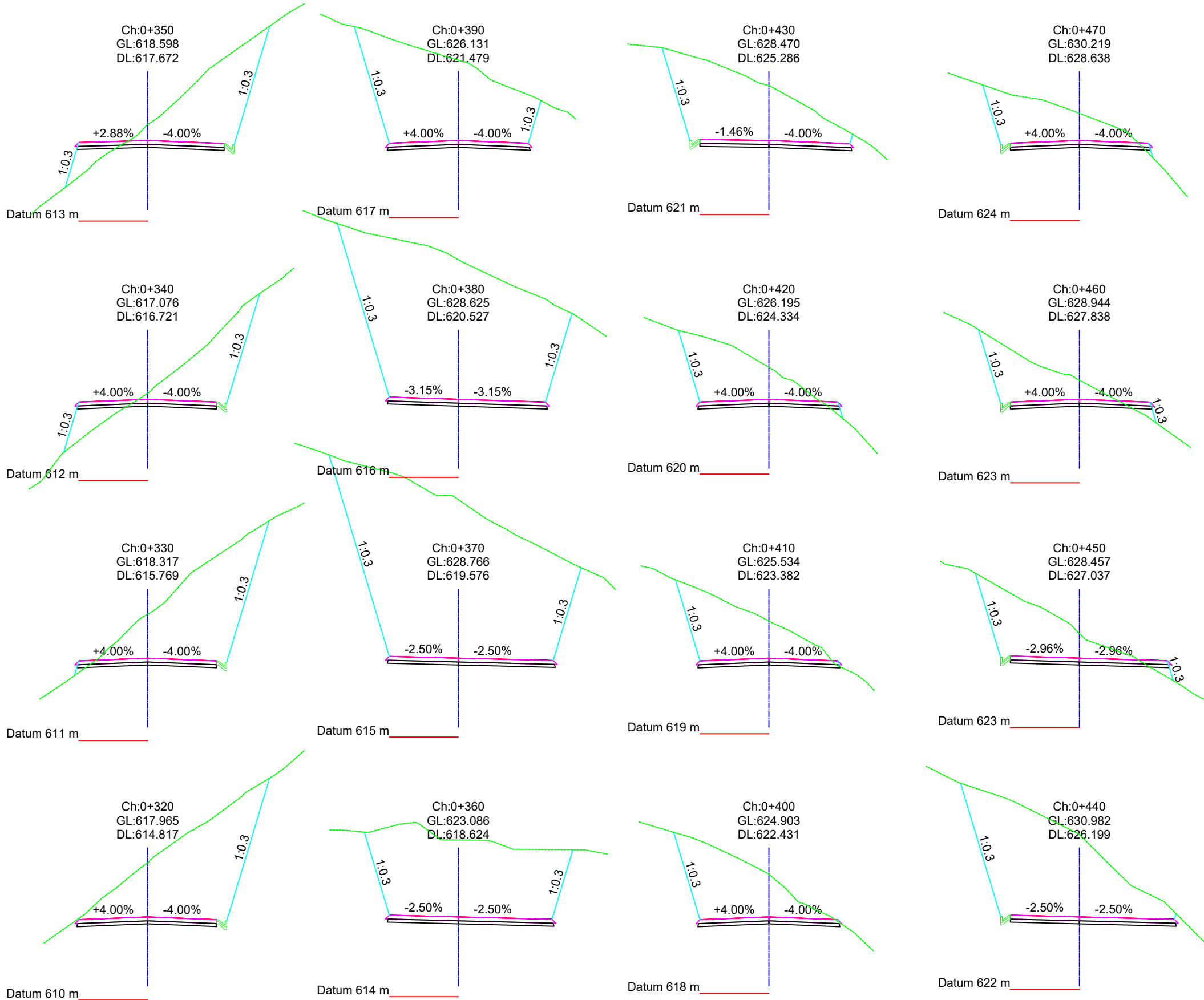


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ISSUED FOR CONSTRUCTION


Rev	Modification	Drawn	Checked	Recommended	Approved
Client: DORJILUNG HYDROPOWER PROJECT					
Project: DORJILUNG HYDROPOWER PROJECT (1125 MW) MONGAR, BHUTAN					
Title: DORJILUNG ADIT 5 ROAD CROSS SECTION SHEET 11 OF 25					
CONSULTANT:		NAME	SIG.		
		Designed			
		Drawn			
		Checked			
		Approved			
		Issued Date	NOV 2024		
Original Size A3	Original Scale AS SHOWN	DRAWING NO. DHPP-ROAD-ADIT-5-2024-11			REV NA

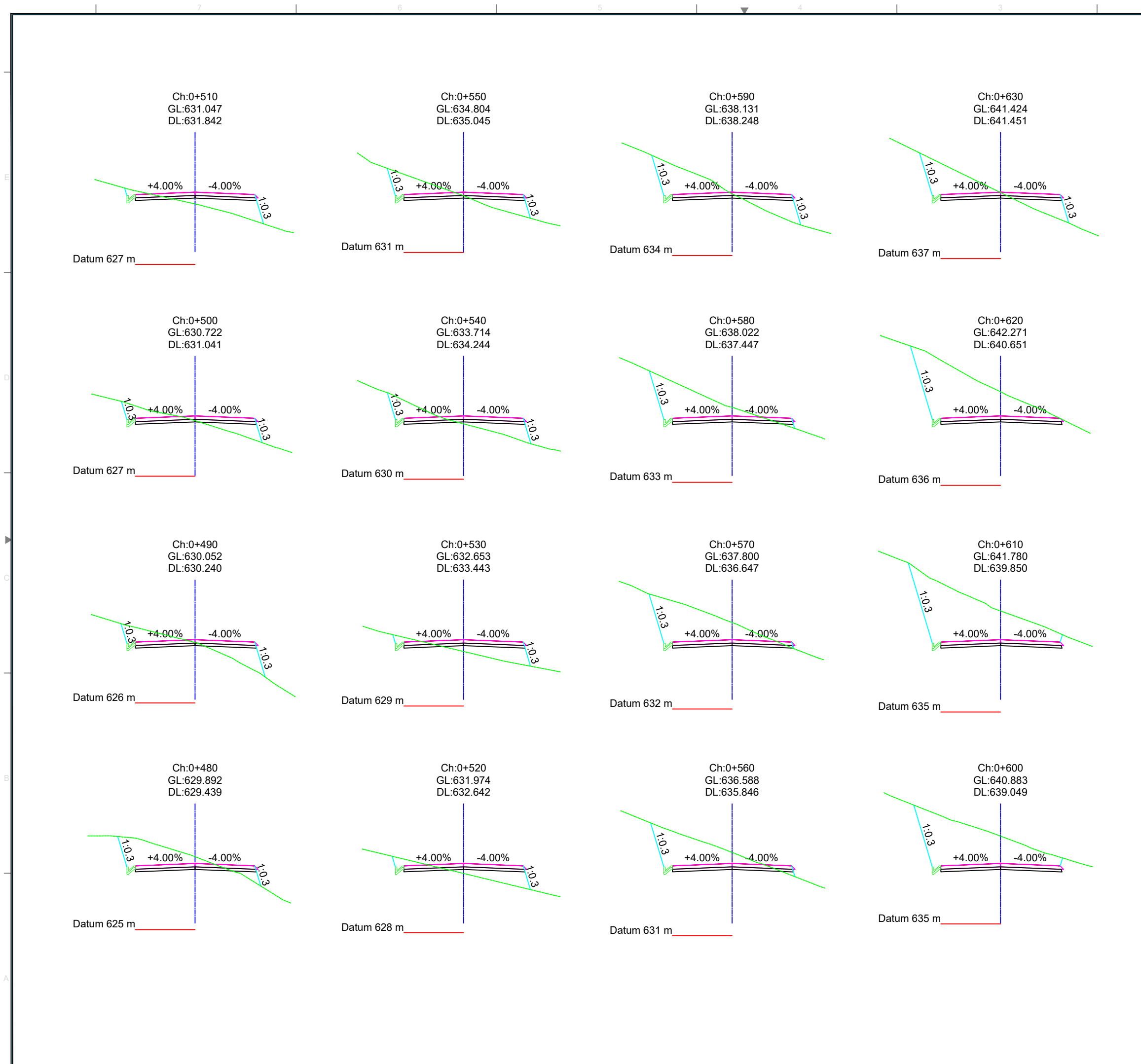


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ISSUED FOR CONSTRUCTION


Rev	Modification	Drawn	Checked	Recommended	Approved
Client: DORJILUNG HYDROPOWER PROJECT					
Project: DORJILUNG HYDROPOWER PROJECT (1125 MW) MONGAR, BHUTAN					
Title: DORJILUNG ADIT 5 ROAD CROSS SECTION SHEET 12 OF 25					
CONSULTANT:		NAME	SIG.		
		Designed			
		Drawn			
		Checked			
		Approved			
		Issued Date	NOV 2024		
Original Size A3	Original Scale AS SHOWN	DRAWING NO. DHPP-ROAD-ADIT-5-2024-12			REV NA

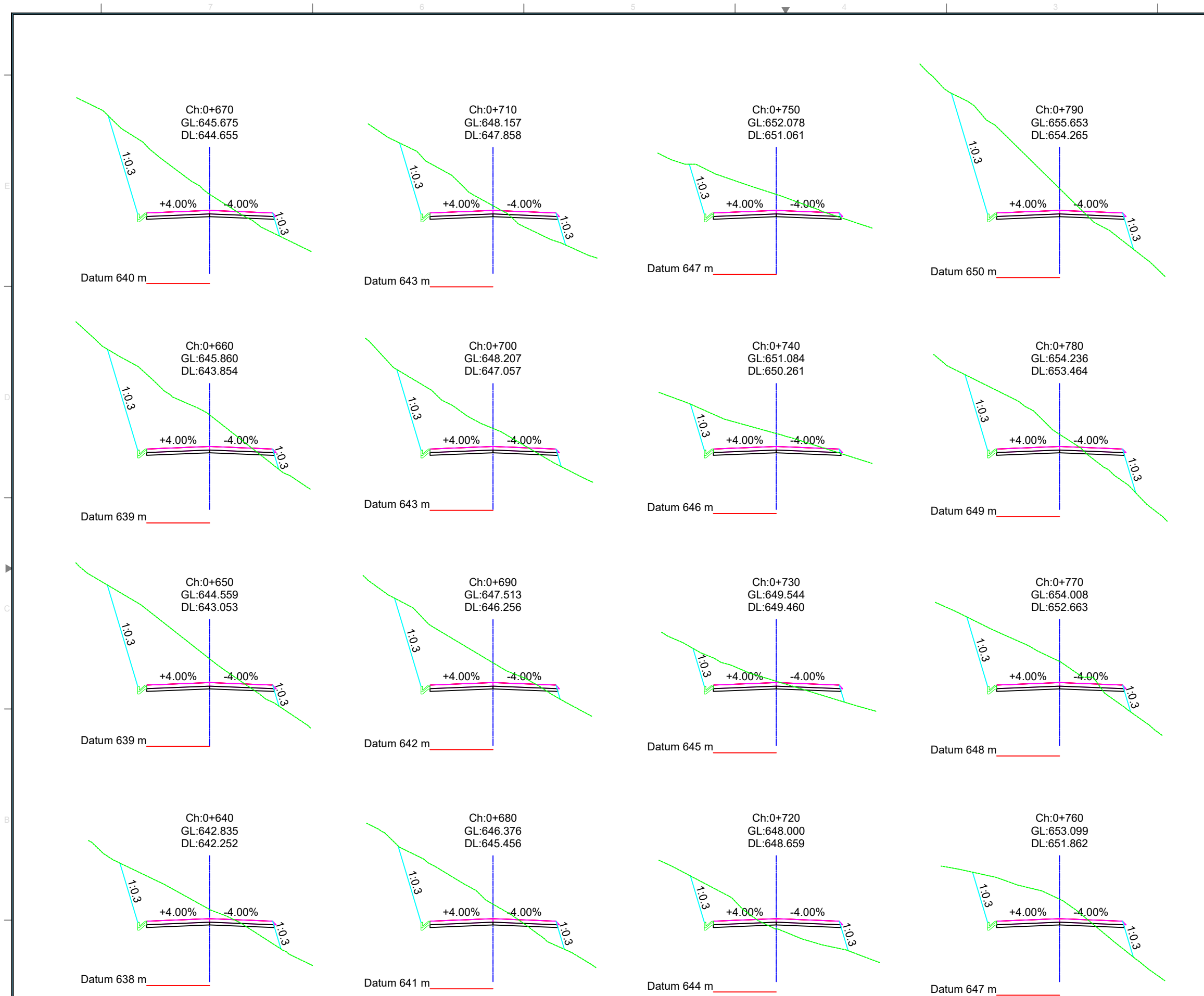


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ISSUED FOR CONSTRUCTION

Rev	Modification	Drawn	Checked	Recommended	Approved
Client: DORJILUNG HYDROPOWER PROJECT					
Project: DORJILUNG HYDROPOWER PROJECT (1125 MW) MONGAR, BHUTAN					
Title: DORJILUNG ADIT 5 ROAD CROSS SECTION SHEET 13 OF 25					
CONSULTANT:		NAME	SIG.		
		Designed			
		Drawn			
		Checked			
		Approved			
		Issued Date	NOV 2024		
Original Size A3	Original Scale AS SHOWN	DRAWING NO. DHPP-ROAD-ADIT-5-2024-13			REV NA

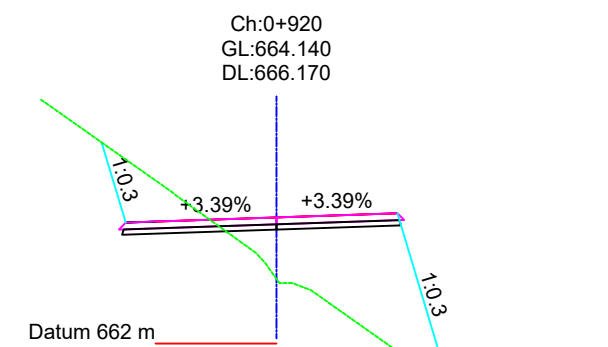
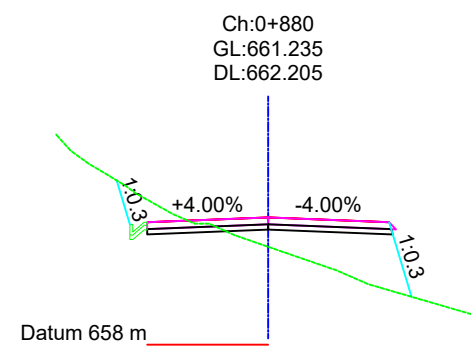
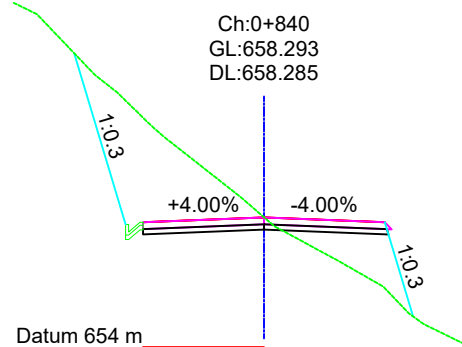
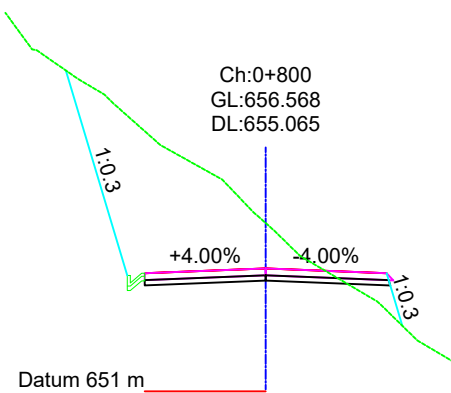
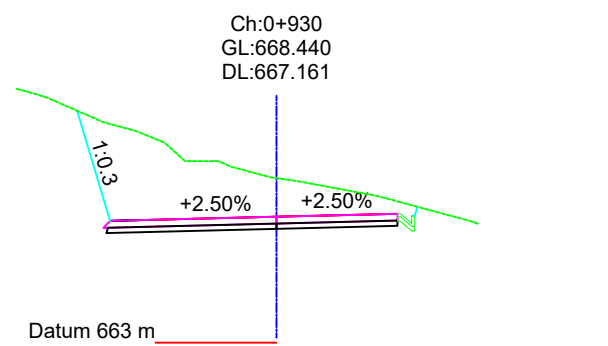
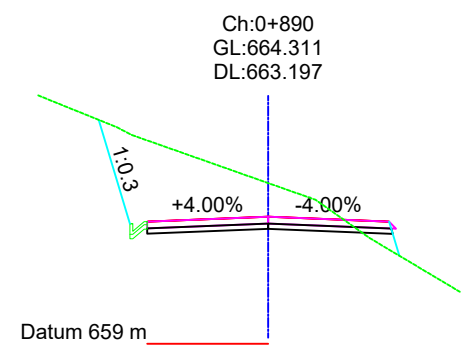
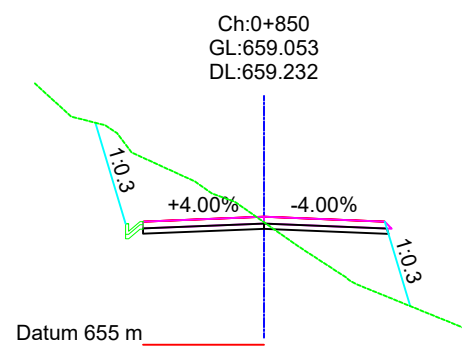
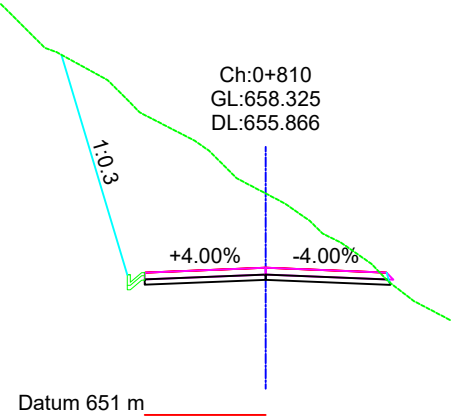
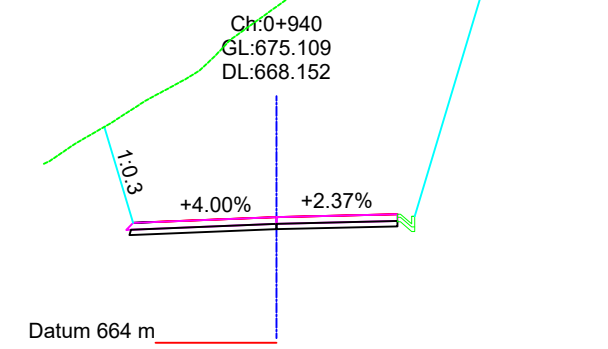
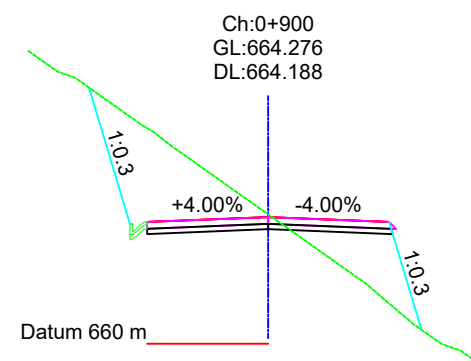
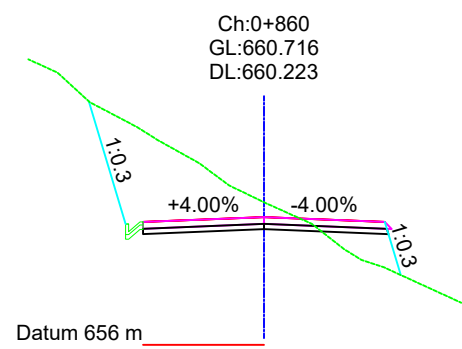
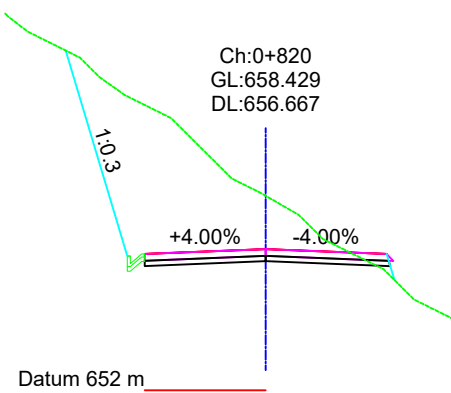
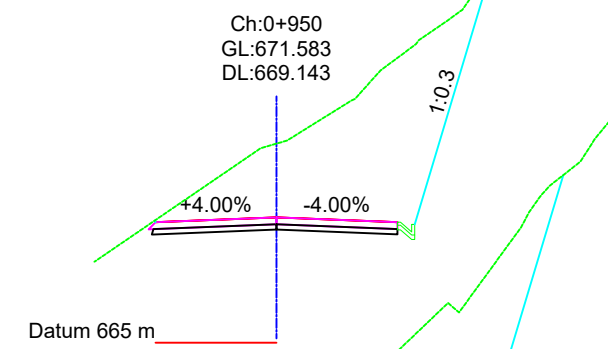
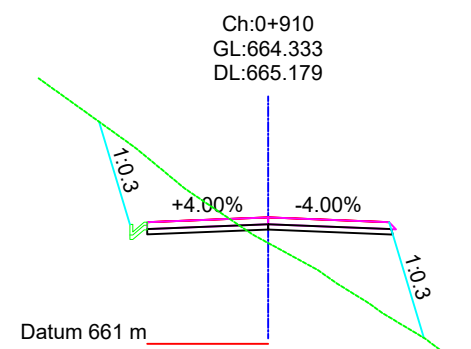
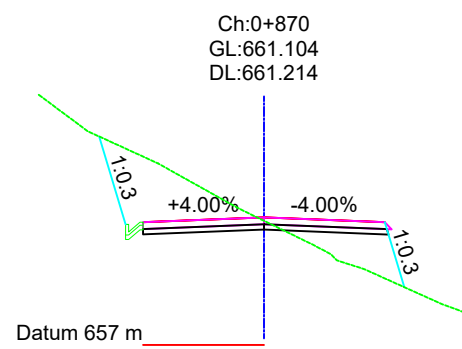
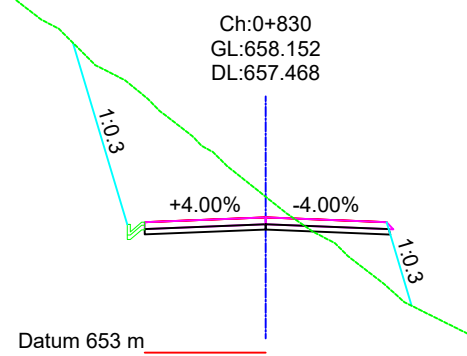


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ISSUED FOR CONSTRUCTION

Rev	Modification	Drawn:	Checked:	Recommended:	Approved:
Client: DORJILUNG HYDROPOWER PROJECT					
Project: DORJILUNG HYDROPOWER PROJECT (1125 MW) MONGAR, BHUTAN					
Title: DORJILUNG ADIT 5 ROAD CROSS SECTION SHEET 14 OF 25					
CONSULTANT:		NAME	SIG.		
		Designed			
		Drawn			
		Checked			
		Approved			
		Issued Date	NOV 2024		
Original Size A3	Original Scale AS SHOWN	DRAWING NO. DHPP-ROAD-ADIT-5-2024-14			REV NA




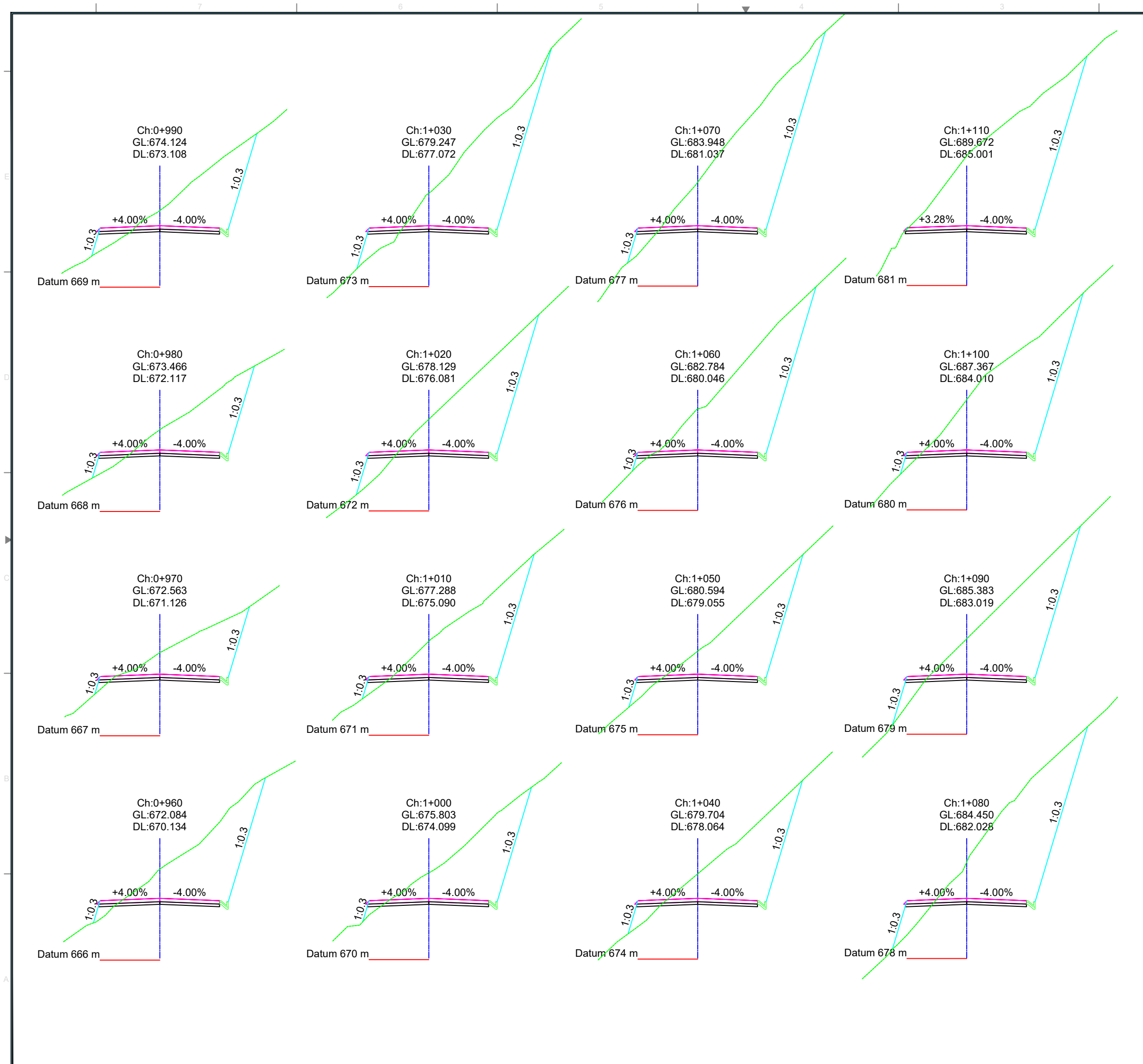
NOTE:

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ISSUED FOR CONSTRUCTION


Rev	Modification	Drawn:	Checked:	Recommended:	Approved:
Client: DORJILUNG HYDROPOWER PROJECT					
Project: DORJILUNG HYDROPOWER PROJECT (1125 MW) MONGAR, BHUTAN					
Title: DORJILUNG ADIT 5 ROAD CROSS SECTION SHEET 15 OF 25					
CONSULTANT:		NAME	SIG.		
 འབྲས་རྒྱས་ཁུངས་ལེན་གཞི Drak Green Consultancy	Designed				
	Drawn				
	Checked				
	Approved				
	Issued Date	NOV 2024			
Original Size A3	Original Scale AS SHOWN	DRAWING NO. DHPP-ROAD-ADIT-5-2024-15		REV NA	



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ISSUED FOR CONSTRUCTION


Rev	Modification	Drawn	Checked	Recommended	Approved
Client: DORJILUNG HYDROPOWER PROJECT					
Project: DORJILUNG HYDROPOWER PROJECT (1125 MW) MONGAR, BHUTAN					
Title: DORJILUNG ADIT 5 ROAD CROSS SECTION SHEET 16 OF 25					
CONSULTANT:		NAME	SIG.		
		Designed			
		Drawn			
		Checked			
		Approved			
		Issued Date	NOV 2024		
Original Size A3	Original Scale AS SHOWN	DRAWING NO. DHPP-ROAD-ADIT-5-2024-16			REV NA

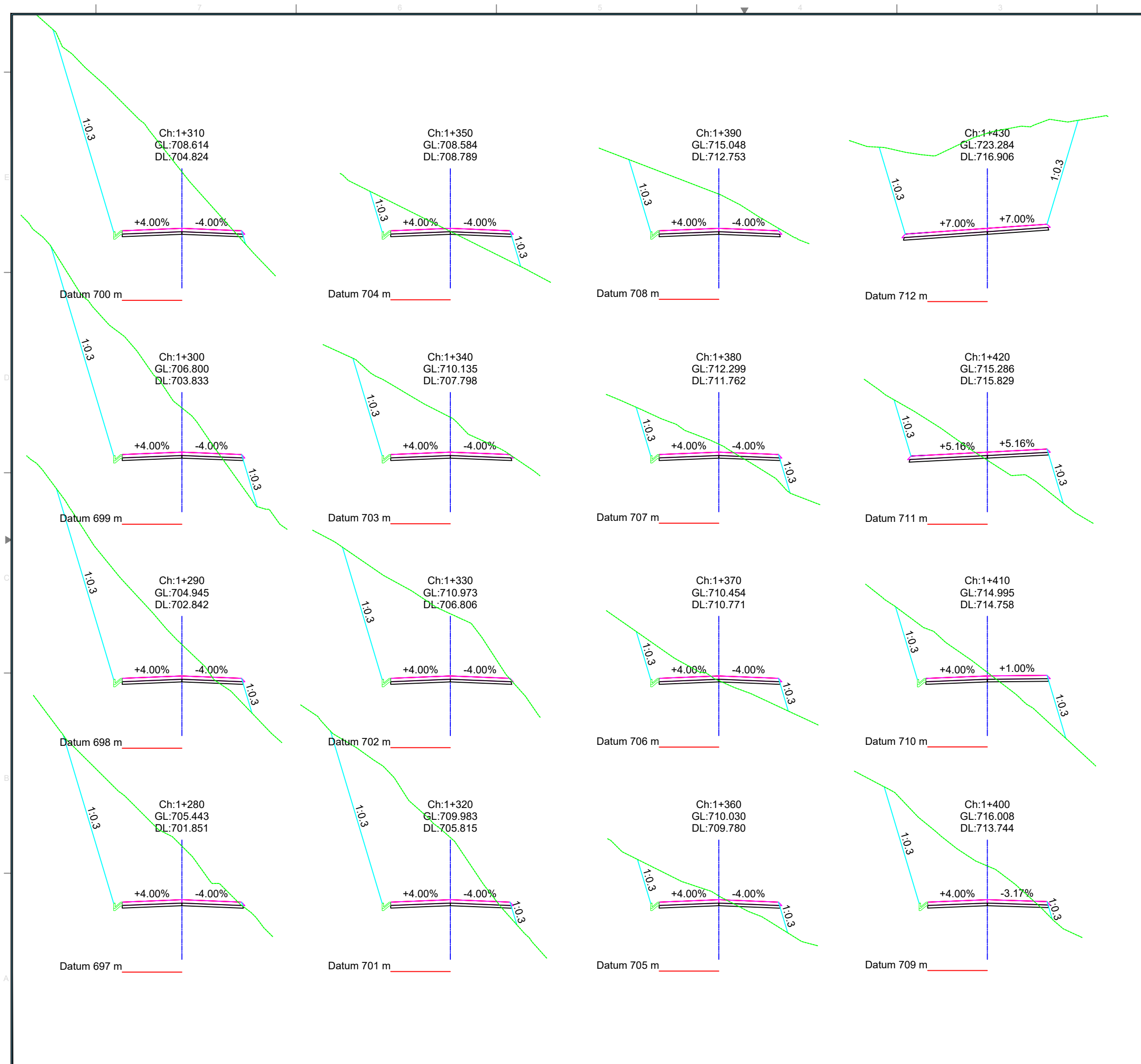


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ISSUED FOR CONSTRUCTION


Rev	Modification	Drawn:	Checked:	Recommended:	Approved:
Client: DORJILUNG HYDROPOWER PROJECT					
Project: DORJILUNG HYDROPOWER PROJECT (1125 MW) MONGAR, BHUTAN					
Title: DORJILUNG ADIT 5 ROAD CROSS SECTION SHEET 17 OF 25					
CONSULTANT:		NAME	SIG.		
		Designed			
		Drawn			
		Checked			
		Approved			
		Issued Date	NOV 2024		
Original Size A3	Original Scale AS SHOWN	DRAWING NO. DHPP-ROAD-ADIT-5-2024-17			REV NA

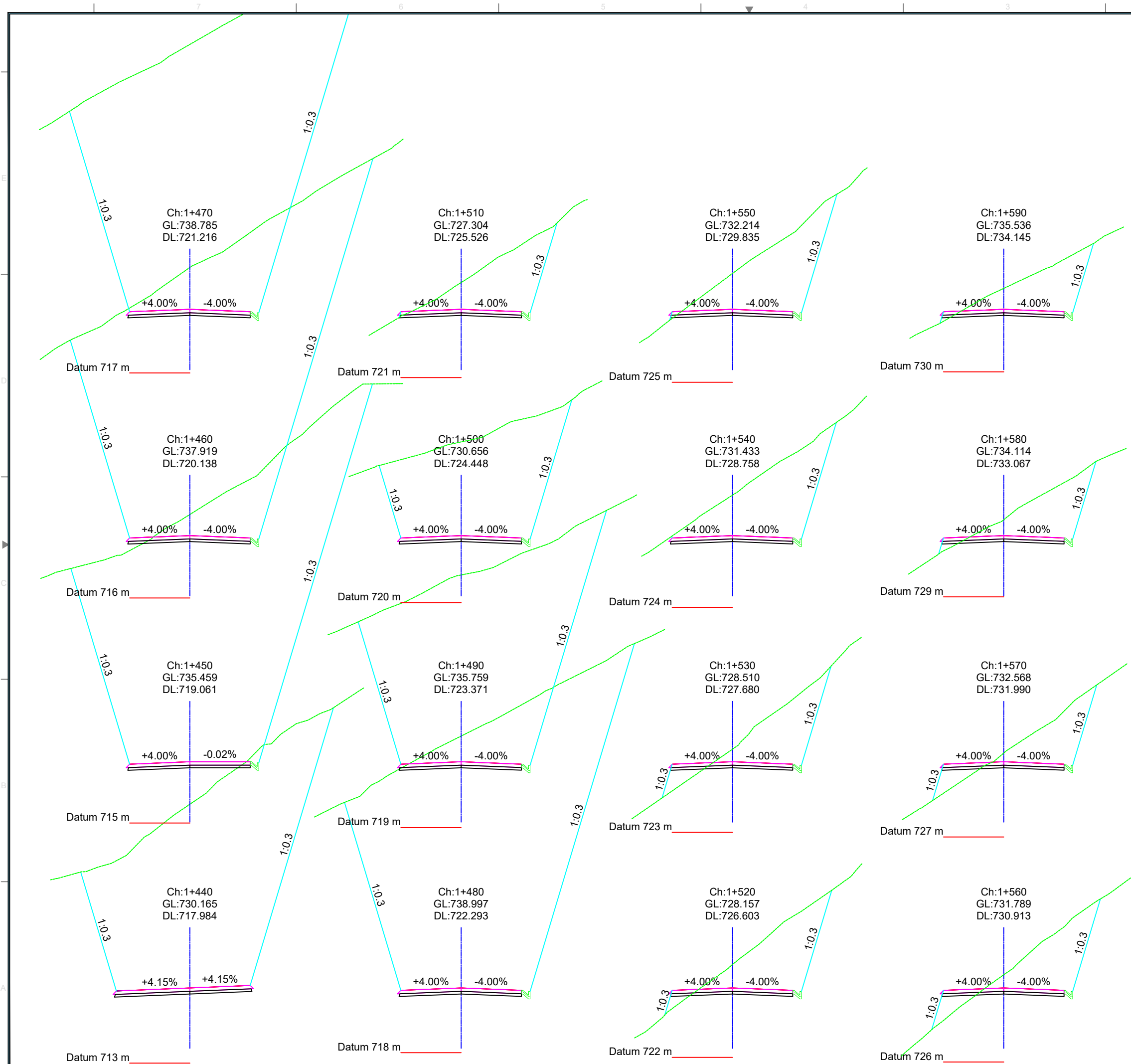


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ISSUED FOR CONSTRUCTION

Rev	Modification	Drawn:	Checked:	Recommended:	Approved:
Client: DORJILUNG HYDROPOWER PROJECT					
Project: DORJILUNG HYDROPOWER PROJECT (1125 MW) MONGAR, BHUTAN					
Title: DORJILUNG ADIT 5 ROAD CROSS SECTION SHEET 18 OF 25					
CONSULTANT:		NAME	SIG.		
		Designed			
		Drawn			
		Checked			
		Approved			
		Issued Date	NOV 2024		
Original Size A3	Original Scale AS SHOWN	DRAWING NO. DHPP-ROAD-ADIT-5-2024-18			REV NA



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ISSUED FOR CONSTRUCTION

Rev	Modification	Drawn:	Checked:	Recommended:	Approved:
Client: DORJILUNG HYDROPOWER PROJECT					
Project: DORJILUNG HYDROPOWER PROJECT (1125 MW) MONGAR, BHUTAN					
Title: DORJILUNG ADIT 5 ROAD CROSS SECTION					
SHEET 19 OF 25					
CONSULTANT:		NAME	SIG.		
		Designed			
		Drawn			
		Checked			
		Approved			
		Issued Date	NOV 2024		
Original Size	Original Scale	DRAWING NO.			REV
A3	AS SHOWN	DHPP-ROAD-ADIT-5-2024-19			NA

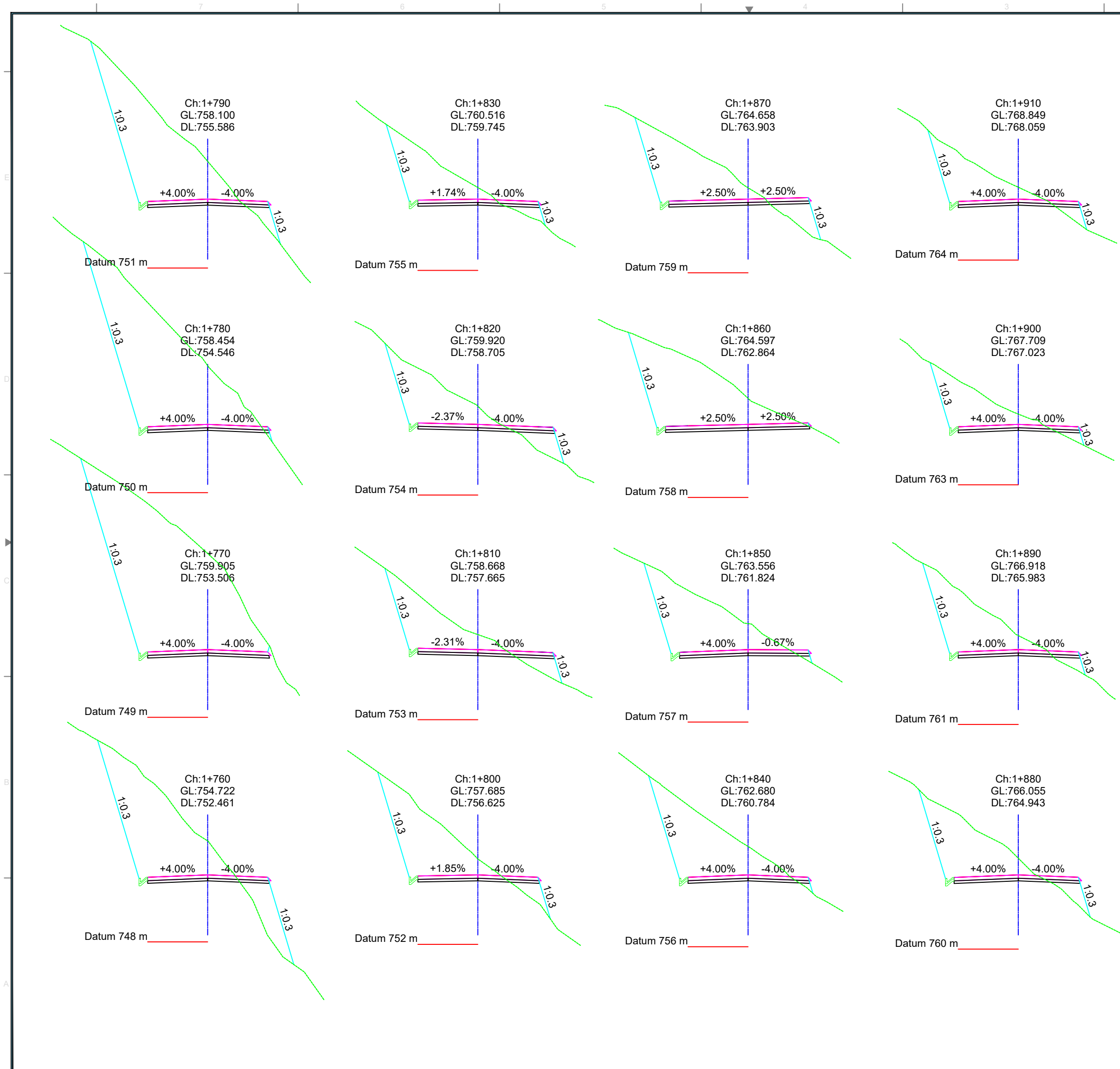


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ISSUED FOR CONSTRUCTION

Rev	Modification	Drawn	Checked	Recommended	Approved
Client: DORJILUNG HYDROPOWER PROJECT					
Project: DORJILUNG HYDROPOWER PROJECT (1125 MW) MONGAR, BHUTAN					
Title: DORJILUNG ADIT 5 ROAD CROSS SECTION SHEET 20 OF 25					
CONSULTANT:		NAME	SIG.		
		Designed			
		Drawn			
		Checked			
		Approved			
		Issued Date	NOV 2024		
Original Size A3	Original Scale AS SHOWN	DRAWING NO. DHPP-ROAD-ADIT-5-2024-20			REV NA

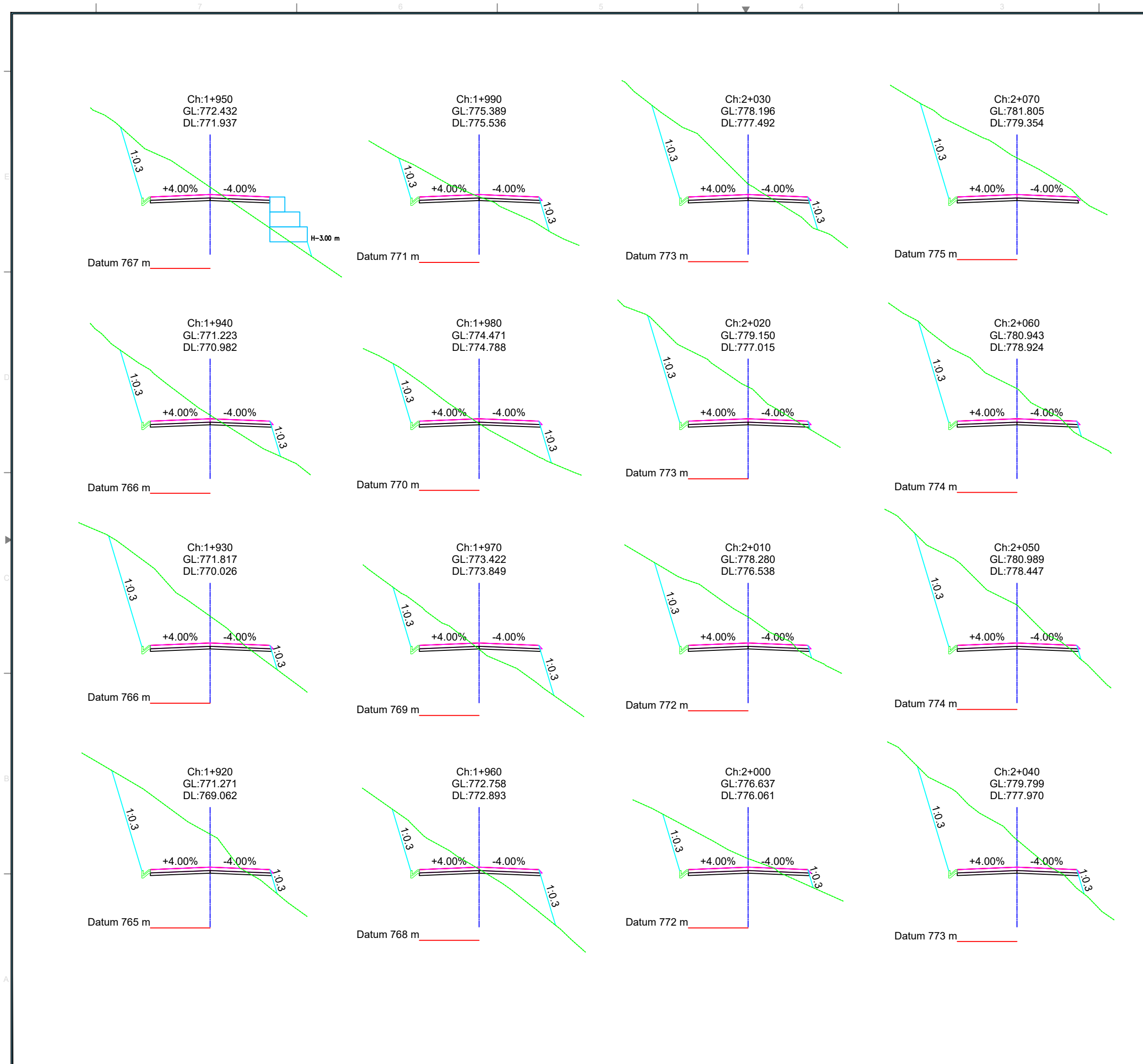


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ISSUED FOR CONSTRUCTION

Rev	Modification	Drawn	Checked	Recommended	Approved
Client: DORJILUNG HYDROPOWER PROJECT					
Project: DORJILUNG HYDROPOWER PROJECT (1125 MW) MONGAR, BHUTAN					
Title: DORJILUNG ADIT 5 ROAD CROSS SECTION SHEET 21 OF 25					
CONSULTANT:		NAME	SIG.		
		Designed			
		Drawn			
		Checked			
		Approved			
		Issued Date	NOV 2024		
Original Size A3	Original Scale AS SHOWN	DRAWING NO. DHPP-ROAD-ADIT-5-2024-21			REV NA

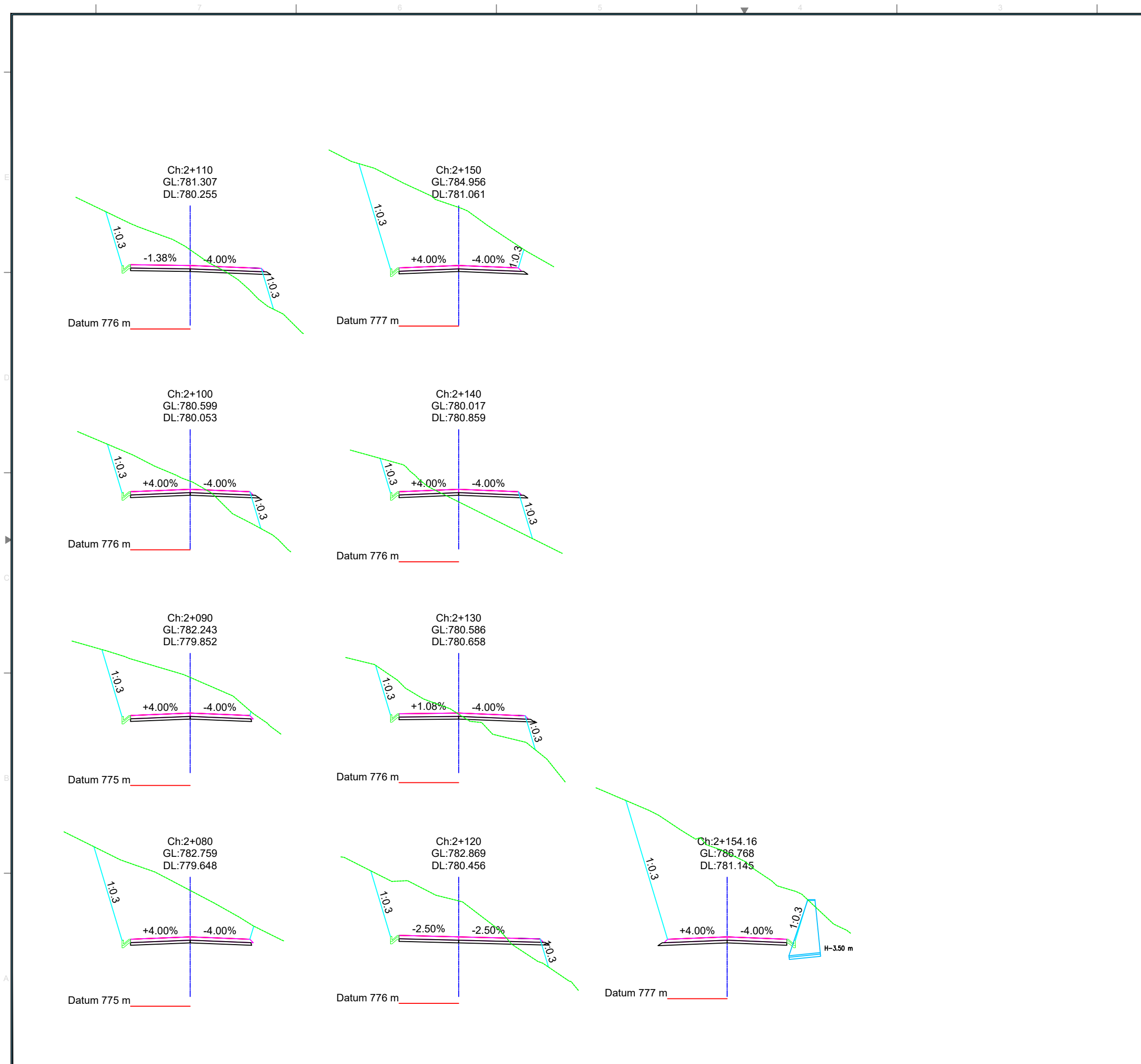


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ISSUED FOR CONSTRUCTION

Rev	Modification	Drawn	Checked	Recommended	Approved
Client: DORJILUNG HYDROPOWER PROJECT					
Project: DORJILUNG HYDROPOWER PROJECT (1125 MW) MONGAR, BHUTAN					
Title: DORJILUNG ADIT 5 ROAD CROSS SECTION					
SHEET 22 OF 25					
CONSULTANT:		NAME	SIG.		
		Designed			
		Drawn			
		Checked			
		Approved			
		Issued Date	NOV 2024		
Original Size A3	Original Scale AS SHOWN	DRAWING NO. DHPP-ROAD-ADIT-5-2024-22			REV NA

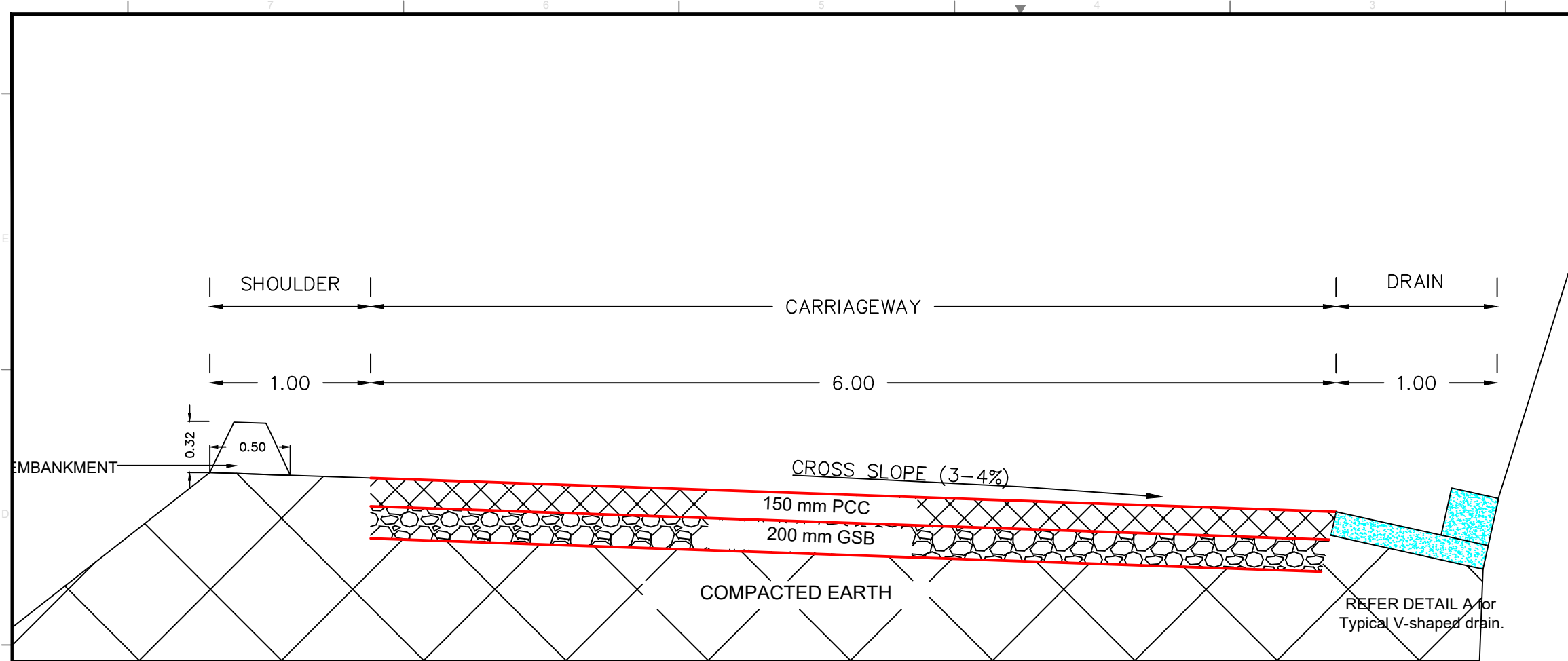


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ISSUED FOR CONSTRUCTION

Rev	Modification	Drawn:	Checked:	Recommended:	Approved:
Client: DORJILUNG HYDROPOWER PROJECT					
Project: DORJILUNG HYDROPOWER PROJECT (1125 MW) MONGAR, BHUTAN					
Title: DORJILUNG ADIT 5 ROAD CROSS SECTION SHEET 23 OF 25					
CONSULTANT:		NAME	SIG.		
		Designed			
		Drawn			
		Checked			
		Approved			
		Issued Date	NOV 2024		
Original Size A3	Original Scale AS SHOWN	DRAWING NO. DHPP-ROAD-ADIT-5-2024-23			REV NA



Typical One-way Camber Cross Slope in Super Elevated Sections for Double Lane.

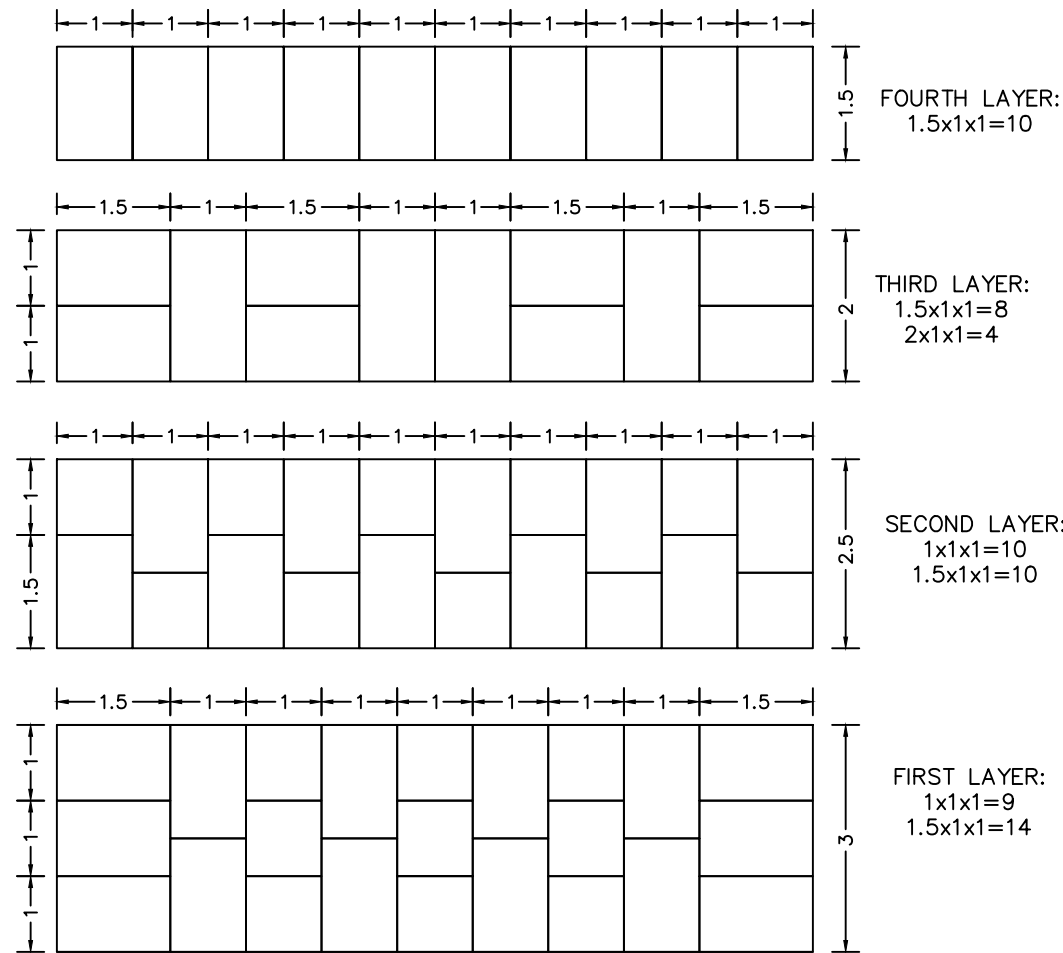
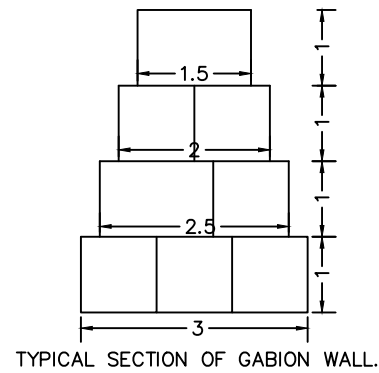
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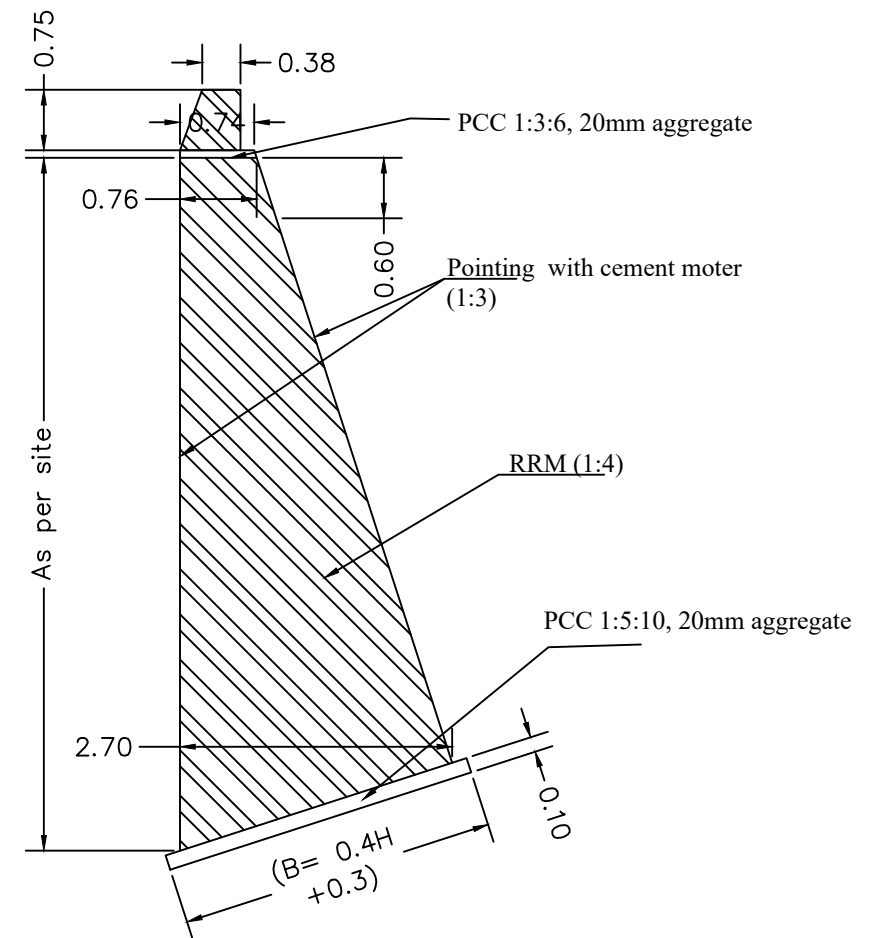
ISSUED FOR CONSTRUCTION

Rev	Modification	Drawn	Checked	Recommended	Approved
Client: DORJILUNG HYDROPOWER PROJECT					
Project: DORJILUNG HYDROPOWER PROJECT (1125 MW) MONGAR, BHUTAN					
Title: DORJILUNG ADIT 5 ROAD TYPICAL ROAD AND DRAIN SECTION					
SHEET 24 OF 25					
CONSULTANT:		NAME	SIG.		
		Designed			
		Drawn			
		Checked			
		Approved			
		Issued Date	NOV 2024		
Original Size	Original Scale	DRAWING NO.			REV
A3	AS SHOWN	DHPP-ROAD-ADIT-5-2024-24			NA

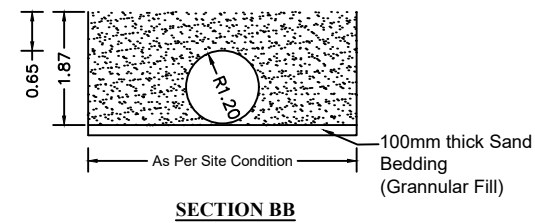
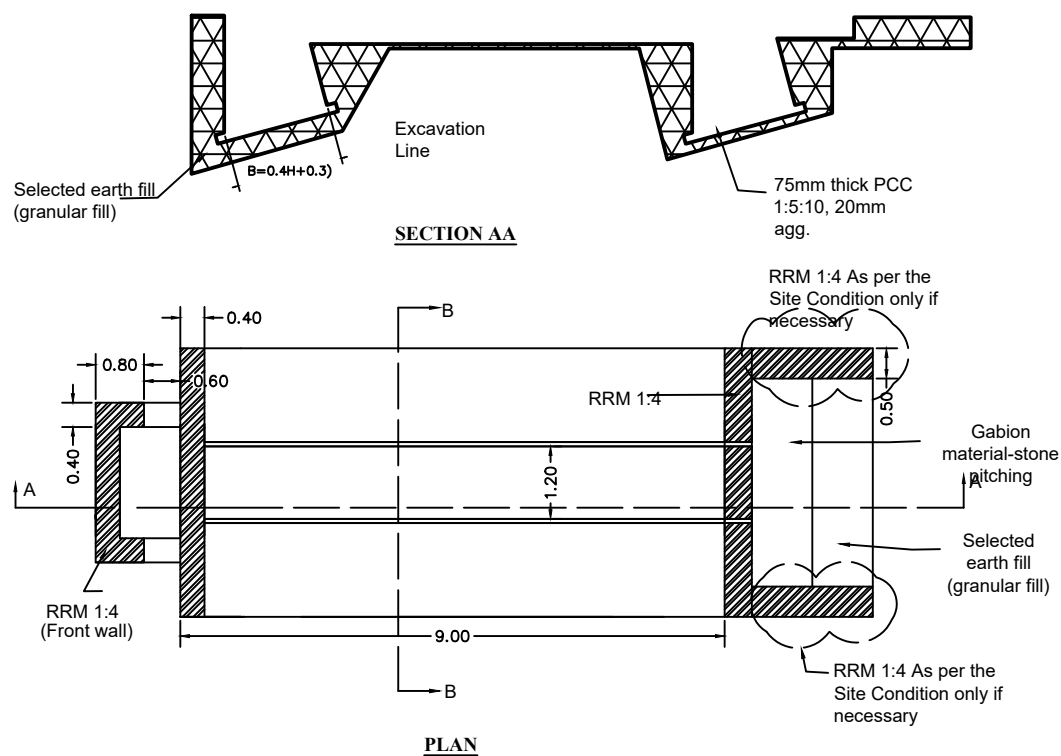
DETAIL A: Typical V-shaped drain



GABION WALL PLAN.



TYPICAL SECTION OF RETAINING WALL

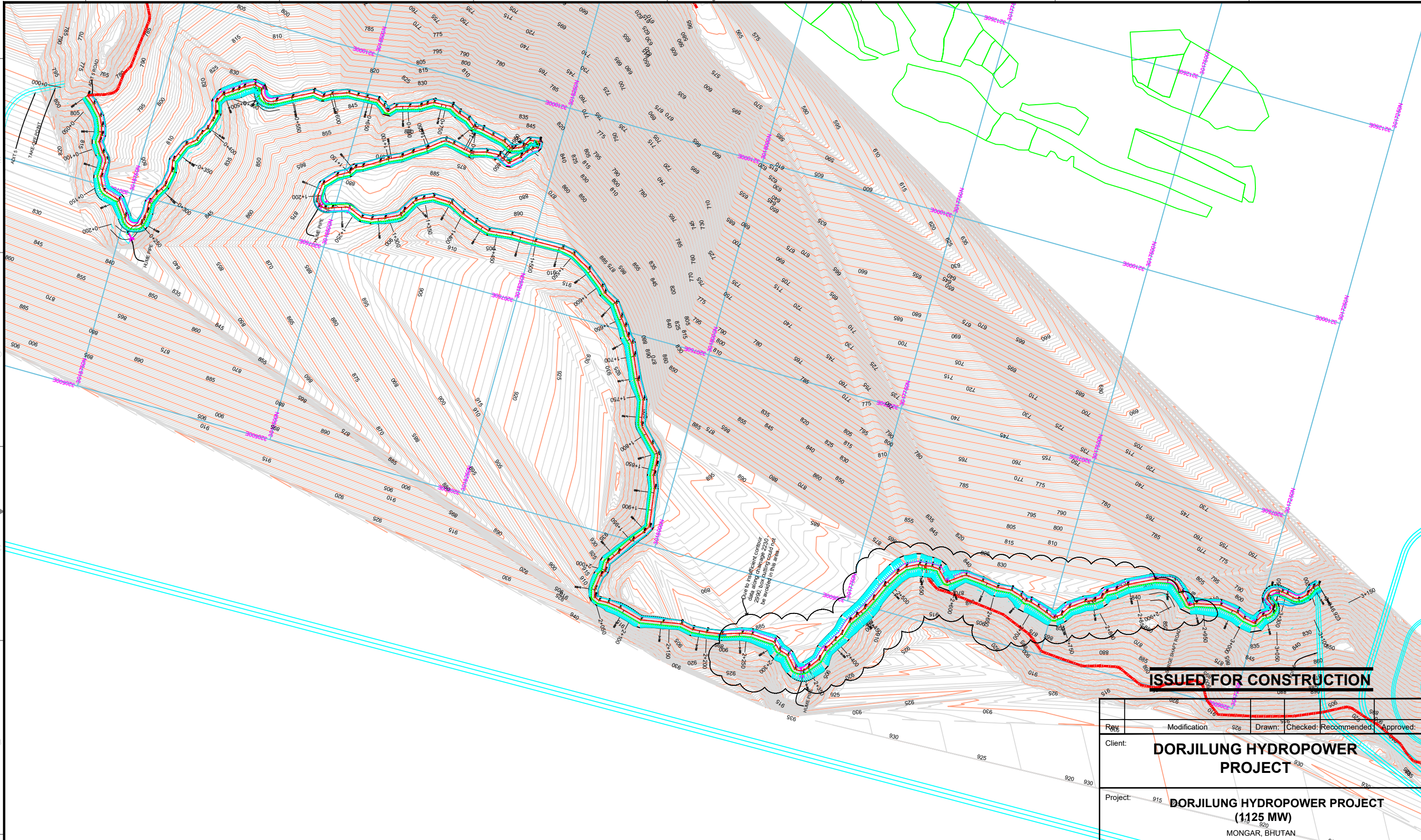


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ISSUED FOR CONSTRUCTION

Rev	Modification	Drawn	Checked	Recommended	Approved
Client: DORJILUNG HYDROPOWER PROJECT					
Project: DORJILUNG HYDROPOWER PROJECT (1125 MW) MONGAR, BHUTAN					
Title: DORJILUNG ADIT 5 ROAD TYPICAL DETAILS OF HUME PIPE, RETAINING, AND GABION WALL SHEET 25 OF 25					
CONSULTANT:		NAME	SIG.		
		Designed			
		Drawn			
		Checked			
		Approved			
		Issued Date	NOV 2024		
Original Size	Original Scale	DRAWING NO.			REV
A3	AS SHOWN	DHPP-ROAD-ADIT-5-2024-25			NA

3120.0m Access Road to Adit 6




ISSUED FOR CONSTRUCTION

Rev	Modification	Drawn	Checked	Recommended	Approved
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Client: **DORJILUNG HYDROPOWER PROJECT**

Project: **DORJILUNG HYDROPOWER PROJECT (1125 MW)**
MONGAR, BHUTAN

Title: **DORJILUNG ROAD ADIT 6**
GENERAL PLAN
SHEET 1 OF 36

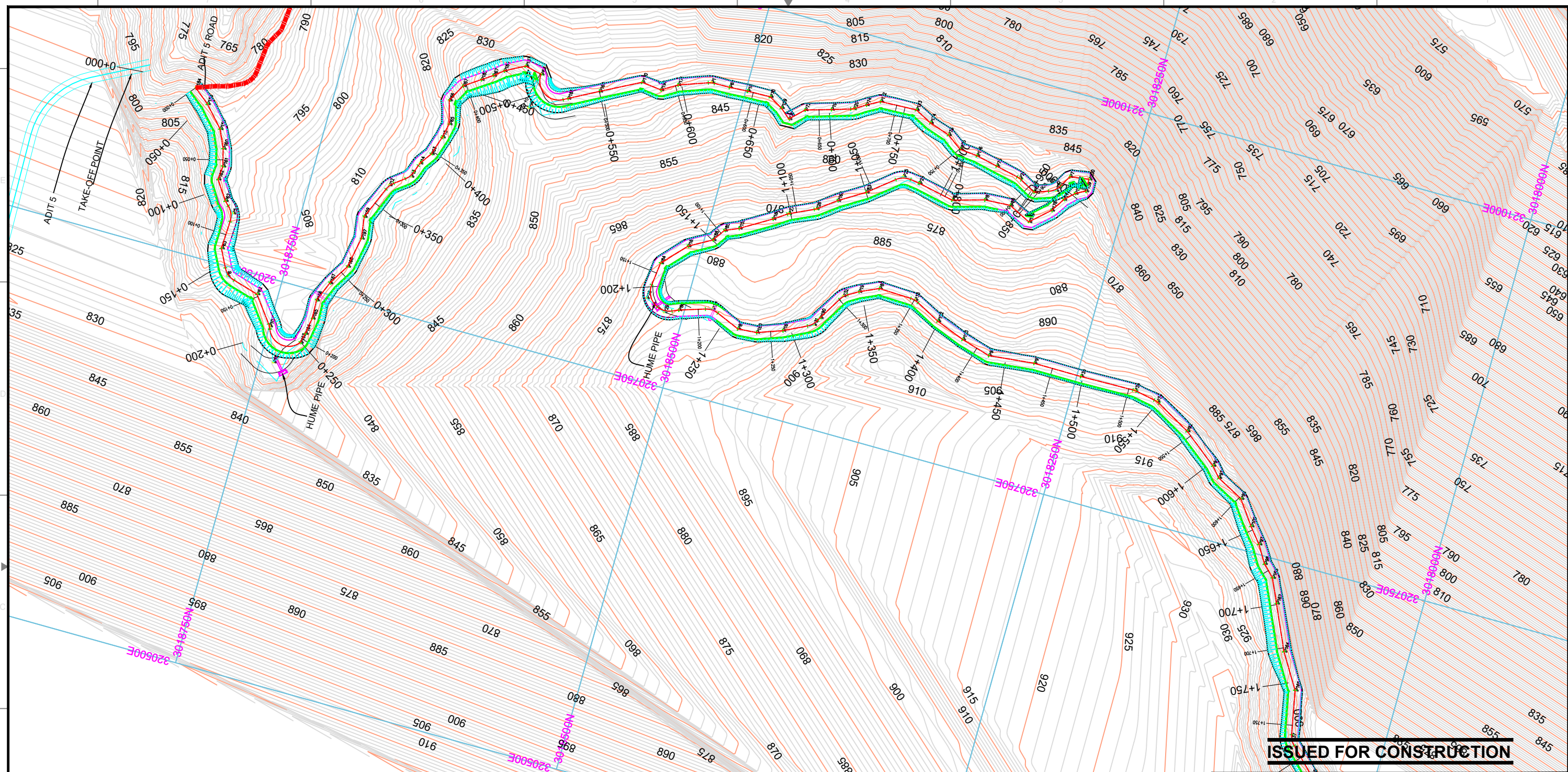
CONSULTANT: 	NAME	SIG.
	Designed	
	Drawn	
	Checked	
	Approved	
Issued Date: NOV 2024		

Original Size A3	Original Scale AS SHOWN	DRAWING NO. DHPP-ROAD-ADIT-6-2024-01	REV NA
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NOTE:

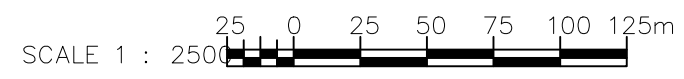
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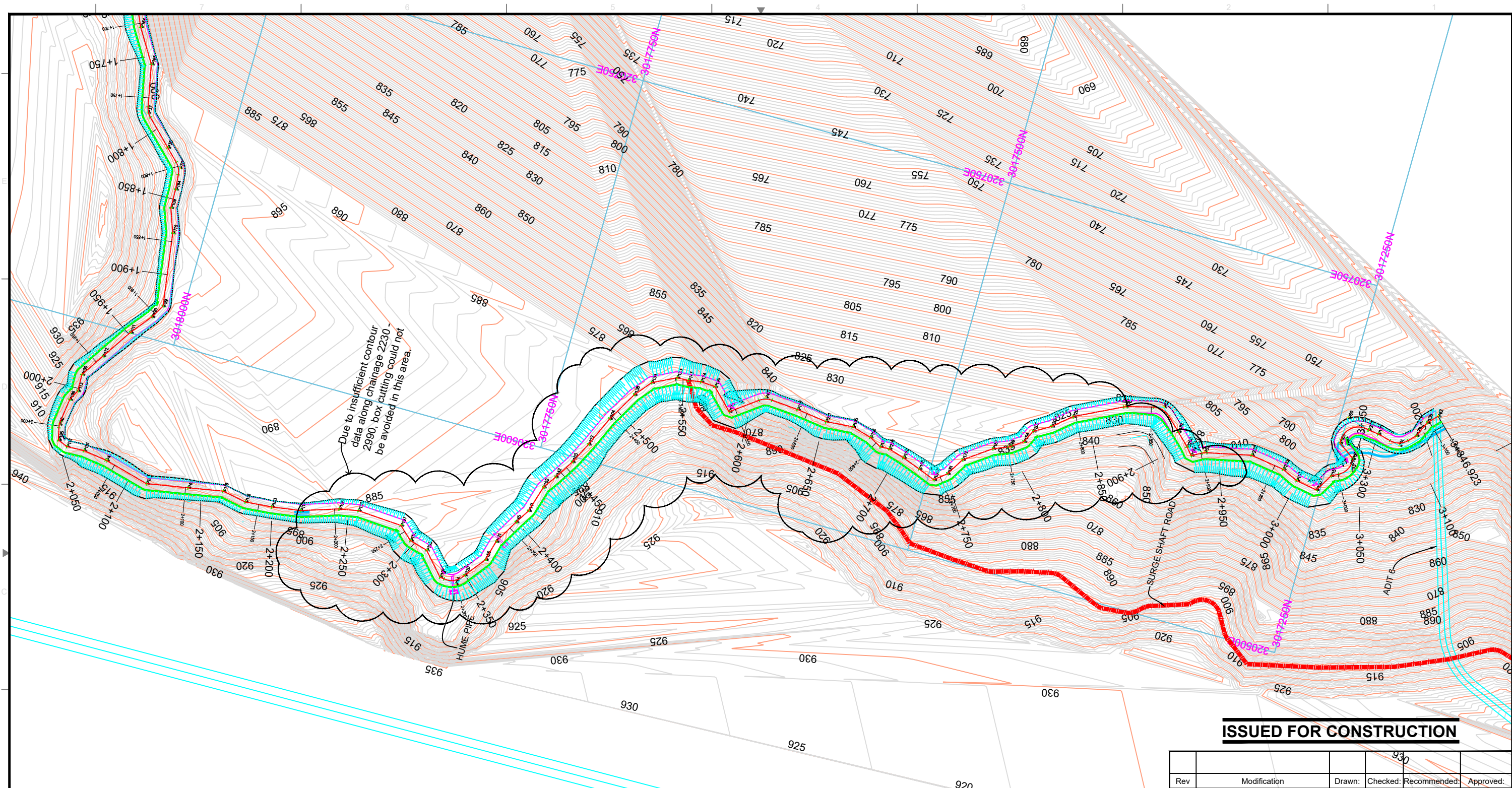


ISSUED FOR CONSTRUCTION


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Rev	Modification	Drawn	Checked	Recommended	Approved
Client: DORJILUNG HYDROPOWER PROJECT					
Project: DORJILUNG HYDROPOWER PROJECT (1125 MW) MONGAR, BHUTAN					
Title: DORJILUNG ROAD ADIT 6 GENERAL PLAN SHEET 2 OF 36					
CONSULTANT:		NAME	SIG.		
		Designed			
		Drawn			
		Checked			
		Approved			
		Issued Date	NOV 2024		
Original Size	A3	Original Scale	AS SHOWN	DRAWING NO.	REV
				DHPP-ROAD-ADIT-6-2024-02	NA



ISSUED FOR CONSTRUCTION

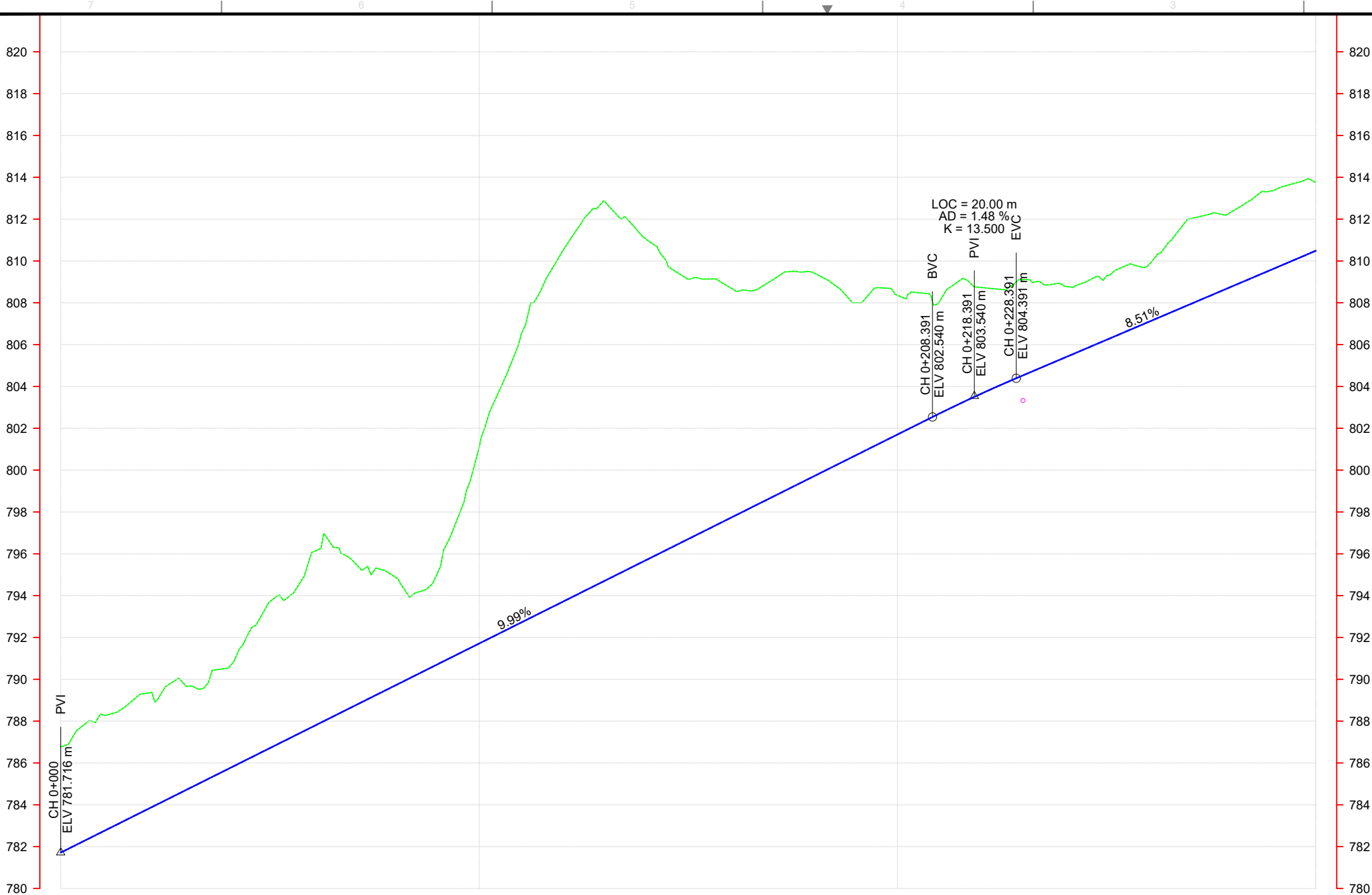
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Rev	Modification	Drawn	Checked	Recommended	Approved	
Client: DORJILUNG HYDROPOWER PROJECT						
Project: DORJILUNG HYDROPOWER PROJECT (1125 MW) MONGAR, BHUTAN						
Title: DORJILUNG ROAD ADIT 6 GENERAL PLAN SHEET 3 OF 36						
CONSULTANT:			NAME	SIG.		
 འབྲུག་གསལ་འཕྲིན་ལྟགས་ལེགས་ལྟགས་ Drak Green Consultancy			Designed			
			Drawn			
			Checked			
			Approved			
			Issued Date	NOV 2024		
Original Size A3	Original Scale AS SHOWN	DRAWING NO. DHPP-ROAD-ADIT-6-2024-03			REV NA	

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SCALE 1 : 1500



CHAINAGE : 0+000 - 0+300

IP No.	CO-ORDINATES(m)	
	EASTING	NORTHING
IP184	320853.294	3018835.419
IP158	320845.380	3018825.591
IP159	320832.360	3018813.592
IP160	320820.873	3018808.359
IP161	320810.023	3018805.551
IP162	320801.344	3018806.317
IP62	320789.473	3018798.276
5	320783.219	3018791.511
IP63	320759.988	3018792.532
6	320744.097	3018784.426
IP62	320738.097	3018763.110
10	320720.738	3018749.963
11	320699.422	3018741.667
IP163	320716.014	3018728.510
IP164	320722.257	3018727.002
IP165	320732.673	3018725.329
IP166	320744.543	3018725.775
IP167	320757.244	3018720.606
IP168	320770.316	3018712.588
IP197	320789.674	3018708.985
IP159	320803.417	3018710.912

DESIGN LEVEL(m)	781.716	782.715	783.714	784.714	785.713	786.712	787.712	788.711	789.710	790.710	791.709	792.708	793.707	794.707	795.706	796.705	797.705	798.704	799.703	800.703	801.702	802.700	803.651	804.528	805.379	806.230	807.081	807.932	808.784	809.635	810.486
EXISTING LEVEL(m)	786.768	788.304	789.318	789.665	790.536	793.713	796.065	795.628	794.881	795.045	801.078	806.437	810.478	812.843	811.030	809.111	808.730	809.069	809.434	808.000	808.357	808.040	808.732	809.105	808.791	809.293	809.799	812.021	812.366	813.371	813.766
CHAINAGE(Km)	0+000	0+010	0+020	0+030	0+040	0+050	0+060	0+070	0+080	0+090	0+100	0+110	0+120	0+130	0+140	0+150	0+160	0+170	0+180	0+190	0+200	0+210	0+220	0+230	0+240	0+250	0+260	0+270	0+280	0+290	0+300
HORIZONTAL SCHEMATIC	L=12.618	L=17.705	L=12.624	L=11.207	L=8.713	L=14.338	L=17.688	L=12.589	L=16.894	L=20.103	L=25.200	L=10.549	L=11.879	L=13.712	L=15.335	L=19.690	L=13.878	L=11.027													
SUPER ELEVATION SCHEMATIC	SE:4%	SE:4%	SE:4%	SE:4%	SE:4%	SE:4%	SE:4%	SE:4%	SE:4%	SE:4%	SE:4%	SE:4%	SE:4%	SE:4%	SE:4%	SE:4%	SE:4%	SE:4%	SE:4%	SE:4%	SE:4%	SE:4%	SE:4%	SE:4%	SE:4%	SE:4%	SE:4%	SE:4%	SE:4%	SE:4%	SE:4%

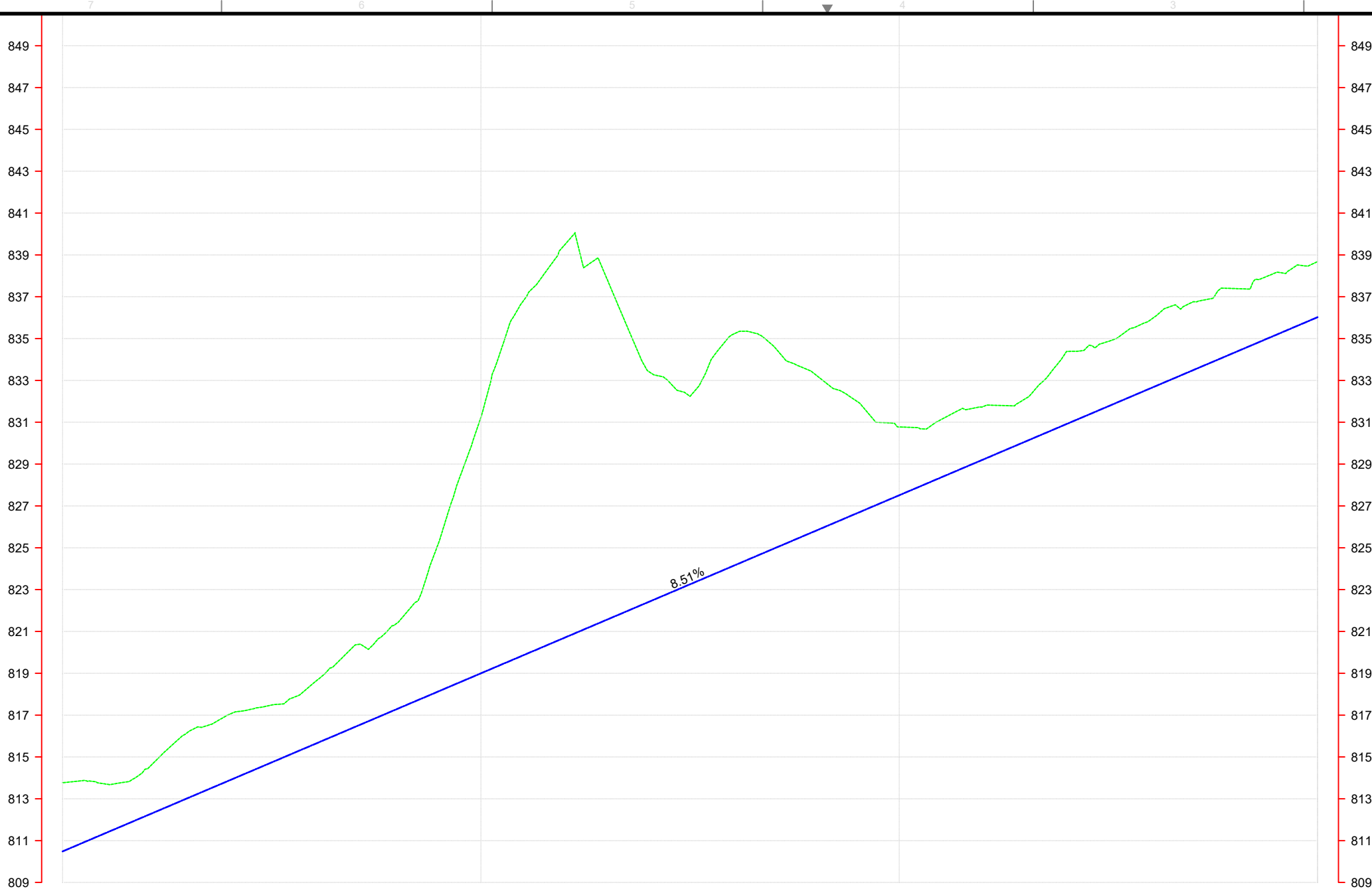
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SCALE 1 : 1500

ISSUED FOR CONSTRUCTION

Rev	Modification	Drawn	Checked	Recommended	Approved
Client: DORJILUNG HYDROPOWER PROJECT					
Project: DORJILUNG HYDROPOWER PROJECT (1125 MW) MONGAR, BHUTAN					
Title: DORJILUNG ROAD ADIT 6 PROFILE (0 TO 300 M)					
SHEET 04 OF 36					
CONSULTANT:	NAME	SIG.			
	Designed				
	Drawn				
	Checked				
	Approved				
Issued Date		NOV 2024			
Original Size A3	Original Scale AS SHOWN	DRAWING NO. DHPP-ROAD-ADIT-6-2024-04		REV NA	

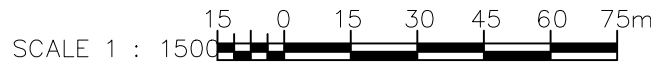


CHAINAGE : 0+300 - 0+600

IP No.	CO-ORDINATES(m)	
	EASTING	NORTHING
IP159	320803.417	3018710.912
12	320826.880	3018701.108
13	320835.763	3018689.376
14	320845.400	3018686.108
IP63	320853.026	3018680.745
15	320865.093	3018676.890
IP65	320874.227	3018674.963
IP66	320888.808	3018678.901
IP67	320899.785	3018673.035
IP185	320906.699	3018663.021
IP67	320911.304	3018656.251
IP184	320916.003	3018650.499
IP187	320922.579	3018638.175
IP68	320920.148	3018627.449
16	320897.690	3018629.376
IP186	320910.009	3018607.002
IP169	320919.729	3018588.901
IP170	320932.467	3018564.600
IP198	320931.042	3018551.946
IP171	320936.908	3018542.225
17	320944.115	3018522.281
IP69	320944.283	3018510.549
18	320945.037	3018498.817

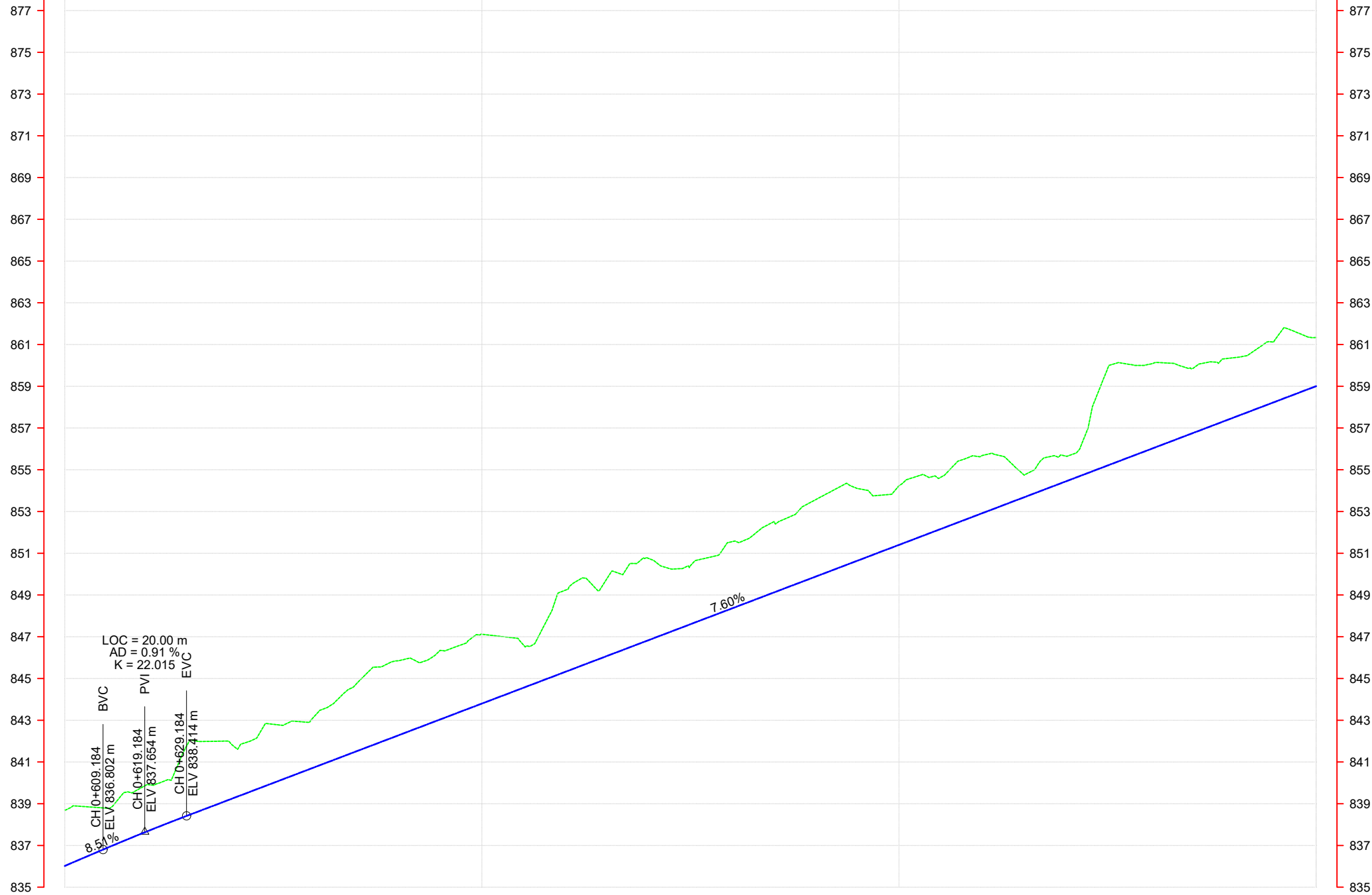
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ISSUED FOR CONSTRUCTION

Rev	Modification	Drawn:	Checked:	Recommended:	Approved:
Client: DORJILUNG HYDROPOWER PROJECT					
Project: DORJILUNG HYDROPOWER PROJECT (1125 MW) MONGAR, BHUTAN					
Title: DORJILUNG ROAD ADIT 6 PROFILE (300 TO 600 M)					
SHEET 05 OF 36					
CONSULTANT:	NAME	SIG.			
	Designed				
	Drawn				
	Checked				
	Approved				
Issued Date		NOV 2024			
Original Size A3	Original Scale AS SHOWN	DRAWING NO. DHPP-ROAD-ADIT-6-2024-05		REV NA	



CHAINAGE : 0+600 - 0+900

IP No.	CO-ORDINATES(m)	
	EASTING	NORTHING
18	320945.037	3018498.817
IP70	320945.456	3018484.153
IP199	320940.553	3018475.479
IP71	320935.107	3018468.985
IP72	320943.319	3018460.647
19	320948.095	3018444.642
20	320952.160	3018431.401
IP74	320956.810	3018424.236
IP172	320961.285	3018416.068
IP173	320962.338	3018392.982
IP174	320956.830	3018382.127
IP73	320952.537	3018369.139
IP175	320945.791	3018359.628
IP176	320944.743	3018348.315
IP75	320941.783	3018334.475
21	320938.303	3018318.472
IP76	320932.304	3018307.367
22	320936.771	3018294.220
IP77	320947.748	3018288.094
IP200	320949.436	3018276.038
IP159	320941.643	3018276.038
IP159	320938.375	3018282.072
IP177	320932.760	3018287.938
IP178	320924.129	3018293.552
IP179	320913.269	3018305.394
IP80	320920.190	3018319.530

DESIGN LEVEL(m)	0+600	0+610	0+620	0+630	0+640	0+650	0+660	0+670	0+680	0+690	0+700	0+710	0+720	0+730	0+740	0+750	0+760	0+770	0+780	0+790	0+800	0+810	0+820	0+830	0+840	0+850	0+860	0+870	0+880	0+890	0+900	
EXISTING LEVEL(m)	836.680	838.787	839.912	842.063	841.842	842.805	843.223	844.765	845.847	846.347	847.120	846.600	849.230	849.788	850.751	850.405	851.557	852.513	853.566	854.103	854.238	854.640	855.688	854.743	855.655	859.839	860.054	859.848	860.363	861.181	861.334	
CHAINAGE(Km)	0+600	0+610	0+620	0+630	0+640	0+650	0+660	0+670	0+680	0+690	0+700	0+710	0+720	0+730	0+740	0+750	0+760	0+770	0+780	0+790	0+800	0+810	0+820	0+830	0+840	0+850	0+860	0+870	0+880	0+890	0+900	
HORIZONTAL SCHEMATIC	L=11.03	L=9.968	L=8.476	L=11.703	L=16.656	L=12.12	L=12.12	L=12.12	L=12.12	L=9.314	L=23.111	L=12.172	L=13.679	L=11.661	L=11.36	L=14.153	L=14.679	L=10.928	L=9.27	L=8.810	L=10.928	L=9.27	L=12.173	L=7.957	L=7.993	L=6.862	L=8.120	L=10.297	L=16.068	L=7.976		
SUPER ELEVATION SCHEMATIC	SE:4%																															

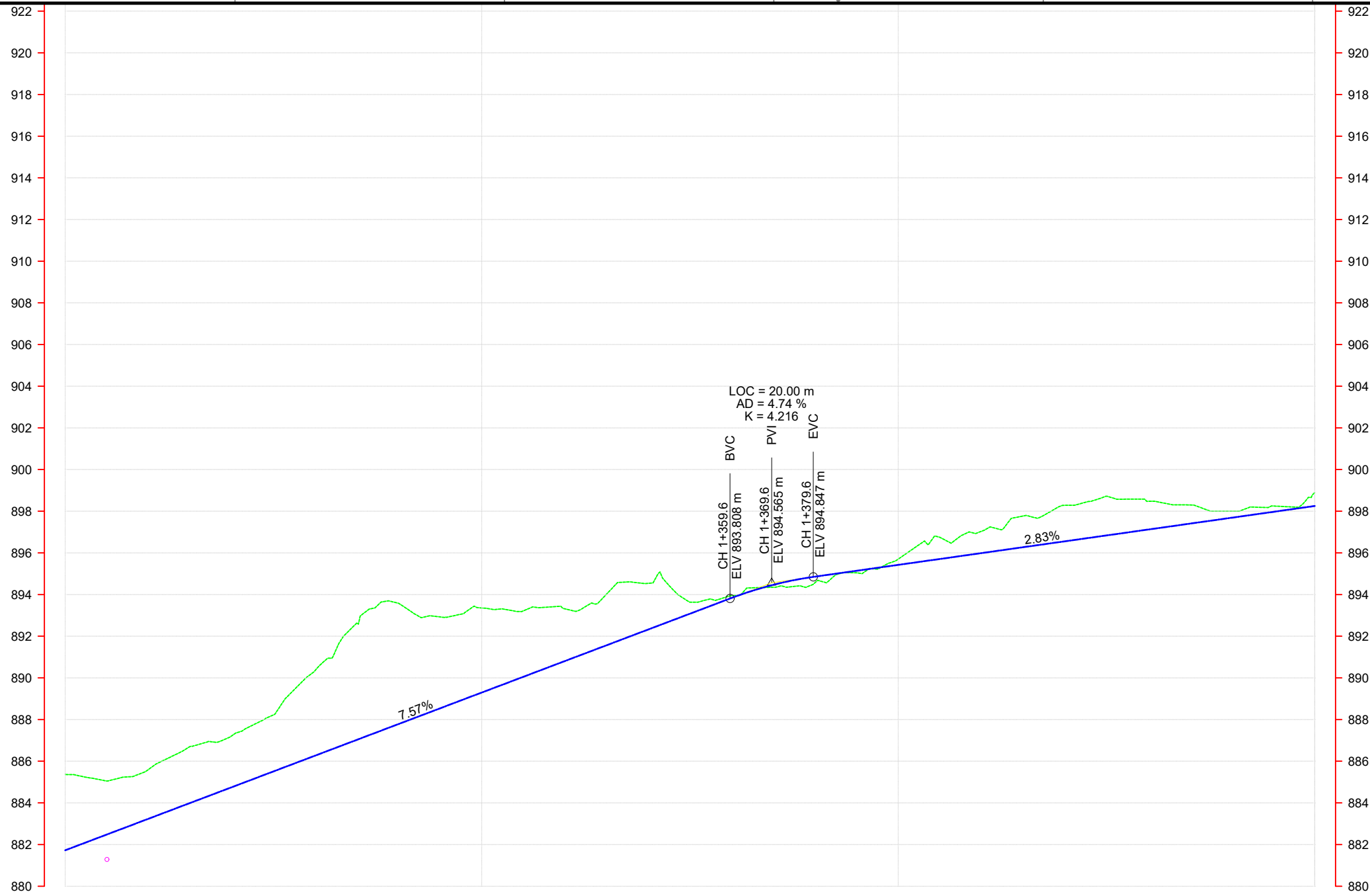
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SCALE 1 : 1500

ISSUED FOR CONSTRUCTION

Rev	Modification	Drawn:	Checked:	Recommended:	Approved:
Client: DORJILUNG HYDROPOWER PROJECT					
Project: DORJILUNG HYDROPOWER PROJECT (1125 MW) MONGAR, BHUTAN					
Title: DORJILUNG ROAD ADIT 6 PROFILE (600 TO 900 M)					
SHEET 06 OF 36					
CONSULTANT:		NAME	SIG.		
		Designed			
		Drawn			
		Checked			
		Approved			
		Issued Date	NOV 2024		
Original Size A3	Original Scale AS SHOWN	DRAWING NO. DHPP-ROAD-ADIT-6-2024-06		REV NA	



CHAINAGE : 1+200 - 1+500

IP No.	CO-ORDINATES(m)	
	EASTING	NORTHING
30	320806.622	3018483.315
IP88	320798.745	3018464.460
IP180	320799.667	3018452.309
IP189	320805.281	3018436.723
31	320814.037	3018418.964
IP190	320819.464	3018416.169
32	320836.538	3018405.885
IP191	320841.901	3018397.002
IP89	320847.348	3018385.019
33	320846.594	3018361.555
IP192	320837.460	3018344.041
IP193	320830.505	3018325.773
IP90	320825.141	3018307.086
IP91	320828.158	3018278.175
34	320828.074	3018247.505
35	320828.780	3018212.278


DESIGN LEVEL(m)	1+200	1+210	1+220	1+230	1+240	1+250	1+260	1+270	1+280	1+290	1+300	1+310	1+320	1+330	1+340	1+350	1+360	1+370	1+380	1+390	1+400	1+410	1+420	1+430	1+440	1+450	1+460	1+470	1+480	1+490	1+500
EXISTING LEVEL(m)	885.363	885.048	885.606	886.710	887.222	888.223	890.357	892.633	893.583	892.925	893.353	893.218	893.311	894.027	894.538	893.632	893.957	894.350	894.566	895.043	895.702	896.744	897.038	897.770	898.282	898.719	898.476	898.299	898.000	898.249	898.890
CHAINAGE(Km)	1+200	1+210	1+220	1+230	1+240	1+250	1+260	1+270	1+280	1+290	1+300	1+310	1+320	1+330	1+340	1+350	1+360	1+370	1+380	1+390	1+400	1+410	1+420	1+430	1+440	1+450	1+460	1+470	1+480	1+490	1+500
HORIZONTAL SCHEMATIC	L=4.544 L=8.474 R=12	L=16.012	L=12.186	L=16.567	L=15.841	L=7.647 R=12	L=16.961	L=5.825 R=12	L=7.405	L=13.163	L=20.738	L=5.383 R=12	L=17.015	L=19.547	L=19.442	L=29.068	L=30.534	L=0.273 R=12	L=31.229												
SUPER ELEVATION SCHEMATIC	1+200																														1+500

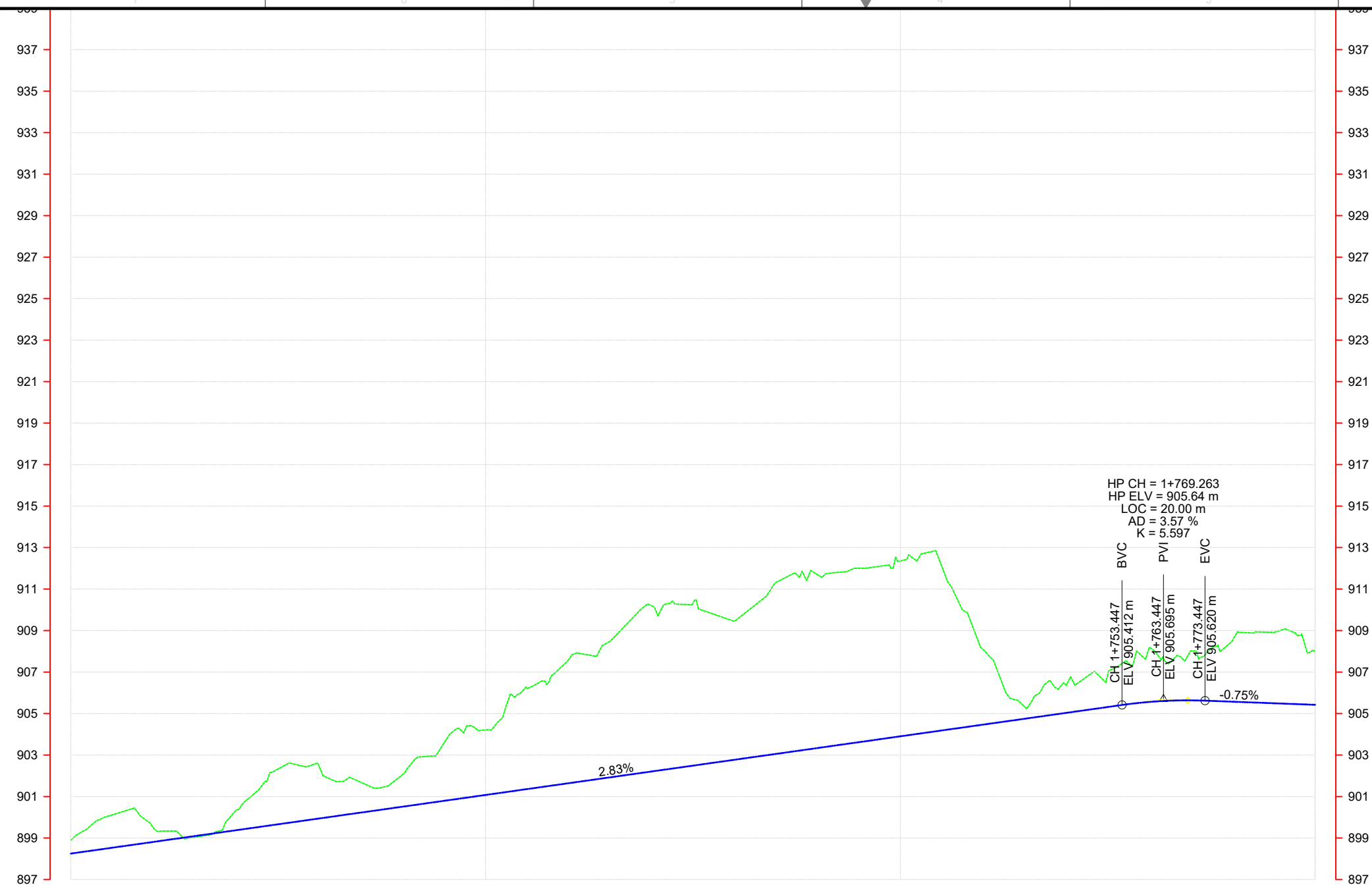
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SCALE 1 : 1500

ISSUED FOR CONSTRUCTION

Rev	Modification	Drawn:	Checked:	Recommended:	Approved:
Client: <div>DORJILUNG HYDROPOWER PROJECT</div>					
Project: <div>DORJILUNG HYDROPOWER PROJECT (1125 MW) MONGAR, BHUTAN</div>					
Title: <div>DORJILUNG ROAD ADIT 6 PROFILE (1200 TO 1500 M) SHEET 08 OF 36</div>					
CONSULTANT: <div><div><div>འགྲུལ་སྒྲོལ་གྲྭ་ལྟགས་ལྟགས་ལྟགས་</div><div>DRUK GREEN CONSULTANCY</div></div></div>			NAME	SIG.	
		Designed			
		Drawn			
		Checked			
		Approved			
		Issued Date	NOV 2024		
Original Size A3	Original Scale AS SHOWN	DRAWING NO. DHPP-ROAD-ADIT-6-2024-08			REV NA

CHAINAGE : 1+500 - 1+800

IP No.	CO-ORDINATES(m)	
	EASTING	NORTHING
35	320828.780	3018212.278
36	320825.896	3018196.890
IP92	320812.907	3018173.510
IP94	320796.231	3018151.974
IP93	320789.862	3018146.359
IP95	320780.896	3018129.264
IP109	320765.960	3018118.473
IP97	320756.279	3018110.554
IP98	320745.344	3018103.912
IP163	320738.215	3018096.621
IP162	320723.310	3018089.817
IP164	320695.282	3018077.099
IP165	320673.549	3018063.734
37	320642.376	3018057.533
38	320623.835	3018038.702
39	320612.858	3018027.564

SUPER ELEVATION SCHEMATIC	HORIZONTAL SCHEMATIC	CHAINAGE(Km)	EXISTING LEVEL(m)	DESIGN LEVEL(m)
SE:4%	L=26.82 R=12	1+500	898.890	898.250
	L=12.47 R=12	1+510	900.117	898.532
		1+520	899.454	898.815
	L=24.798 R=12	1+530	899.040	899.098
		1+540	900.364	899.380
	L=27.238 R=12	1+550	902.333	899.663
		1+560	902.383	899.945
	L=8.490 R=12	1+570	901.681	900.228
		1+580	902.064	900.511
	L=19.304 R=12	1+590	903.583	900.793
		1+600	904.209	901.076
	L=18.427 R=12	1+610	906.204	901.358
		1+620	907.600	901.641
	L=12.506 R=12	1+630	908.475	901.924
		1+640	910.198	902.206
	L=10.196 R=12	1+650	910.325	902.489
		1+660	909.443	902.771
	L=16.385 R=12	1+670	911.316	903.054
1+680		911.700	903.337	
L=30.779 R=12	1+690	912.000	903.619	
	1+700	912.359	903.902	
L=25.513 R=12	1+710	912.090	904.184	
	1+720	908.077	904.467	
L=28.093 R=12	1+730	905.316	904.749	
	1+740	906.365	905.032	
L=27.161 R=12	1+750	906.872	905.315	
	1+760	908.174	905.559	
L=22.733 R=12	1+770	908.020	905.635	
	1+780	908.496	905.571	
L=0.005 R=12	1+790	908.912	905.496	
	1+800	907.982	905.421	


NOTE:

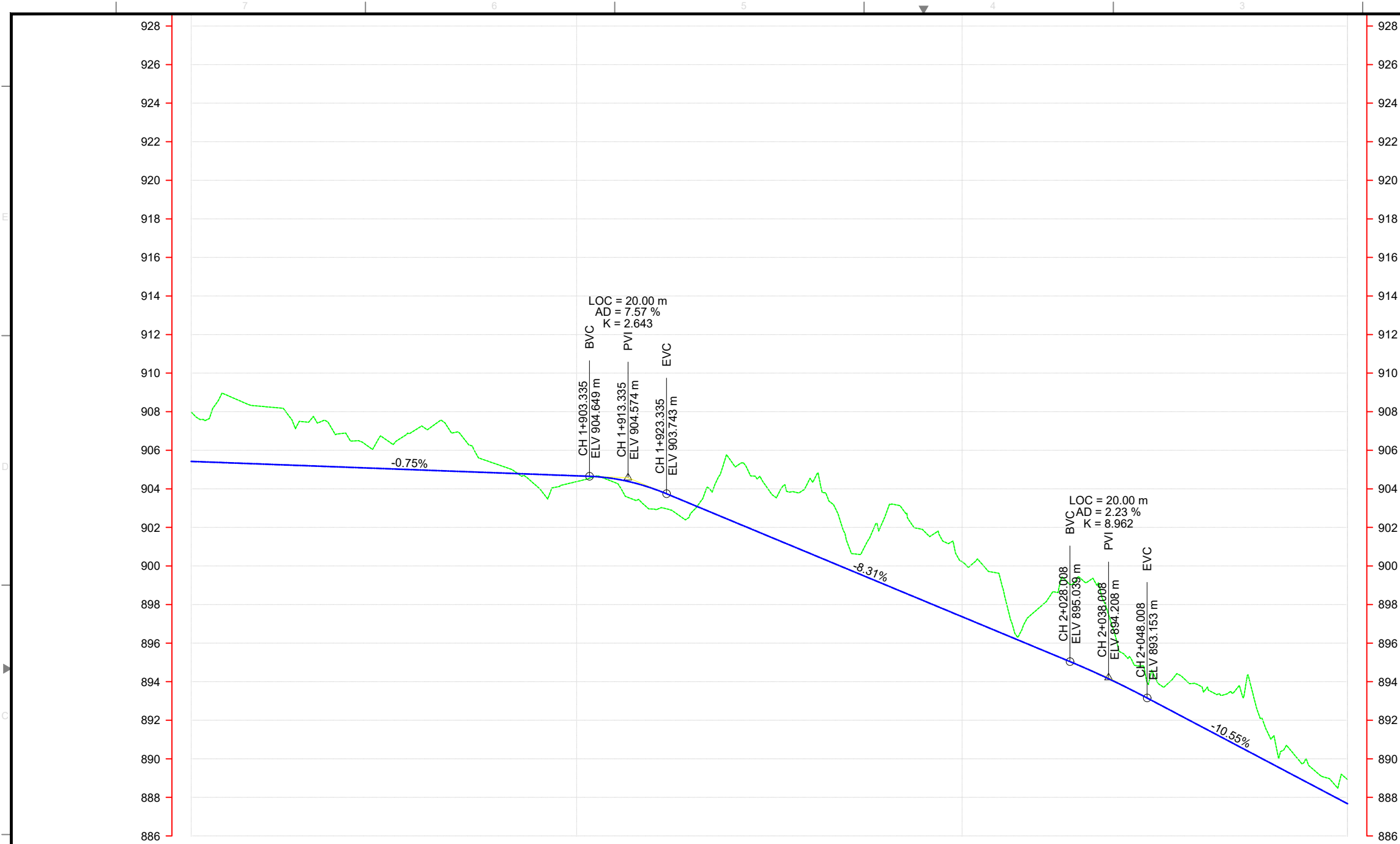
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SCALE 1 : 1500

ISSUED FOR CONSTRUCTION

Rev	Modification	Drawn:	Checked:	Recommended:	Approved:
Client: DORJILUNG HYDROPOWER PROJECT					
Project: DORJILUNG HYDROPOWER PROJECT (1125 MW) MONGAR, BHUTAN					
Title: DORJILUNG ROAD ADIT 6 PROFILE (1500 TO 1800 M) SHEET 09 OF 36					
CONSULTANT:  འཇམ་དཔལ་ལྷན་ཁག་གི་སྒྲིག་ཁོར་ Druk Green Consultancy		NAME Designed Drawn Checked Approved Issued Date	SIG. NOV 2024		
Original Size A3	Original Scale AS SHOWN	DRAWING NO. DHPP-ROAD-ADIT-6-2024-09		REV NA	



CHAINAGE : 1+800 - 2+100

IP No.	CO-ORDINATES(m)	
	EASTING	NORTHING
39	320612.858	3018027.564
IP194	320598.703	3018026.328
IP109	320586.288	3018026.106
IP110	320570.533	3018020.395
IP99	320522.739	3018013.671
IP195	320513.991	3018018.775
IP111	320500.382	3018029.629
IP112	320480.616	3018042.712
IP100	320465.144	3018052.838
IP113	320454.087	3018052.595
IP196	320447.201	3018056.159
40	320429.582	3018058.508
IP195	320419.720	3018056.179
IP101	320417.041	3018049.655
IP181	320417.492	3018038.236
41	320415.293	3018022.217
IP182	320407.634	3017992.860
42	320412.357	3017965.800

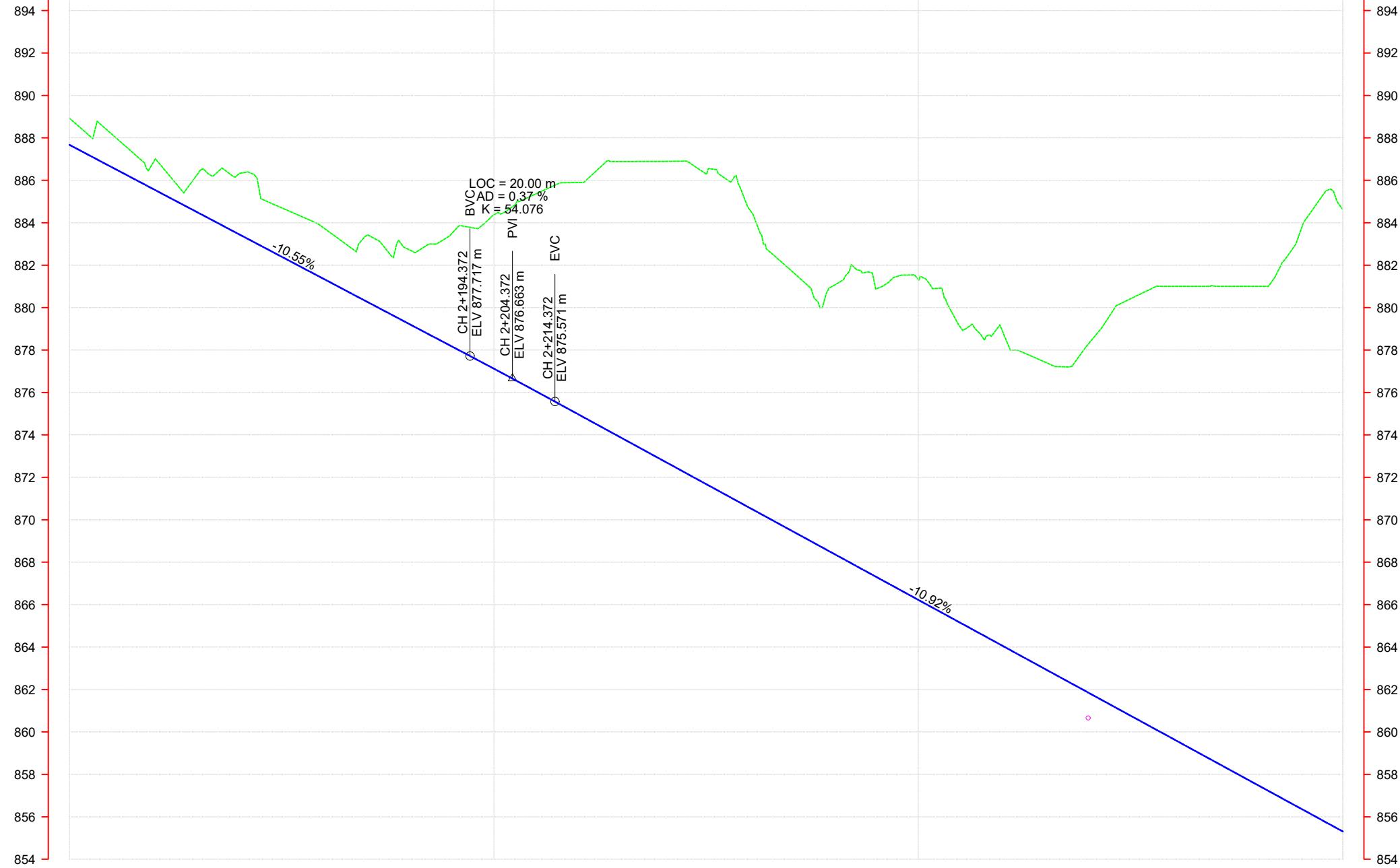
DESIGN LEVEL(m)	1+800	1+810	1+820	1+830	1+840	1+850	1+860	1+870	1+880	1+890	1+900	1+910	1+920	1+930	1+940	1+950	1+960	1+970	1+980	1+990	2+000	2+010	2+020	2+030	2+040	2+050	2+060	2+070	2+080	2+090	2+100
EXISTING LEVEL(m)	907.982	908.792	908.245	907.461	906.889	906.629	907.236	906.794	905.225	904.078	904.374	904.321	902.954	902.810	905.458	903.898	904.322	901.331	902.562	901.837	900.223	899.276	897.830	899.411	896.189	894.264	893.909	893.416	891.059	889.642	888.923
CHAINAGE(Km)	1+800	1+810	1+820	1+830	1+840	1+850	1+860	1+870	1+880	1+890	1+900	1+910	1+920	1+930	1+940	1+950	1+960	1+970	1+980	1+990	2+000	2+010	2+020	2+030	2+040	2+050	2+060	2+070	2+080	2+090	2+100
HORIZONTAL SCHEMATIC	L=8.498 R=12	L=9.791	L=12.416	L=16.759	L=48.264	L=10.128	L=17.408	L=23.703	L=18.491	L=11.060	L=7.753	L=15.564	L=7.923	L=7.052	L=11.428	L=15.456	L=12.225	L=29.627	L=25.842												
SUPER ELEVATION SCHEMATIC	1+800																														2+100

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ISSUED FOR CONSTRUCTION

Rev	Modification	Drawn:	Checked:	Recommended:	Approved:
Client: <div>DORJILUNG HYDROPOWER PROJECT</div>					
Project: <div>DORJILUNG HYDROPOWER PROJECT</div> <div>(1125 MW)</div> <div>MONGAR, BHUTAN</div>					
Title: <div>DORJILUNG ROAD ADIT 6</div> <div>PROFILE (1800 TO 2100 M)</div>					
SHEET 10 OF 36					
CONSULTANT:			NAME	SIG.	
 <div>འབྲུག་གླིང་གྲོས་ཞིན་ཞིན། Druk Green Consultancy</div>		Designed			
		Drawn			
		Checked			
		Approved			
		Issued Date	NOV 2024		
Original Size A3	Original Scale AS SHOWN	DRAWING NO. DHPP-ROAD-ADIT-6-2024-10			REV NA



CHAINAGE : 2+100 - 2+400

IP No.	CO-ORDINATES(m)	
	EASTING	NORTHING
42	320412.357	3017965.800
IP119	320416.442	3017942.952
IP116	320413.506	3017927.124
IP183	320415.038	3017909.637
IP117	320417.846	3017890.619
IP196	320425.632	3017866.622
IP198	320427.929	3017854.114
IP197	320426.119	3017824.543
IP155	320418.221	3017815.956
IP155	320414.958	3017803.975
IP197	320400.407	3017790.827
44	320398.638	3017779.848
IP120	320405.887	3017775.574
IP156	320419.298	3017765.172
IP121	320432.700	3017761.598
45	320448.527	3017752.407
IP141	320457.845	3017746.536
IP102	320475.332	3017741.303
IP142	320484.028	3017735.278

DESIGN LEVEL(m)	2+100	2+110	2+120	2+130	2+140	2+150	2+160	2+170	2+180	2+190	2+200	2+210	2+220	2+230	2+240	2+250	2+260	2+270	2+280	2+290	2+300	2+310	2+320	2+330	2+340	2+350	2+360	2+370	2+380	2+390	2+400
EXISTING LEVEL(m)	888.923	888.169	886.934	886.250	886.324	884.703	883.742	883.398	882.730	883.477	884.377	885.371	885.899	886.885	886.892	886.299	884.692	881.756	881.033	880.878	881.330	879.049	878.801	877.420	878.270	880.418	881.000	881.002	881.000	883.589	884.671
CHAINAGE(Km)	2+100	2+110	2+120	2+130	2+140	2+150	2+160	2+170	2+180	2+190	2+200	2+210	2+220	2+230	2+240	2+250	2+260	2+270	2+280	2+290	2+300	2+310	2+320	2+330	2+340	2+350	2+360	2+370	2+380	2+390	2+400
HORIZONTAL SCHEMATIC	L=23.185	L=16.097	L=17.554	L=19.225	L=25.228	L=12.718	L=29.626	L=11.667	L=12.418	L=19.611	L=14.373	L=16.972	L=13.871	L=18.085	L=10.796	L=18.253	L=10.579	L=4.499													
SUPER ELEVATION SCHEMATIC	SE:4%																														

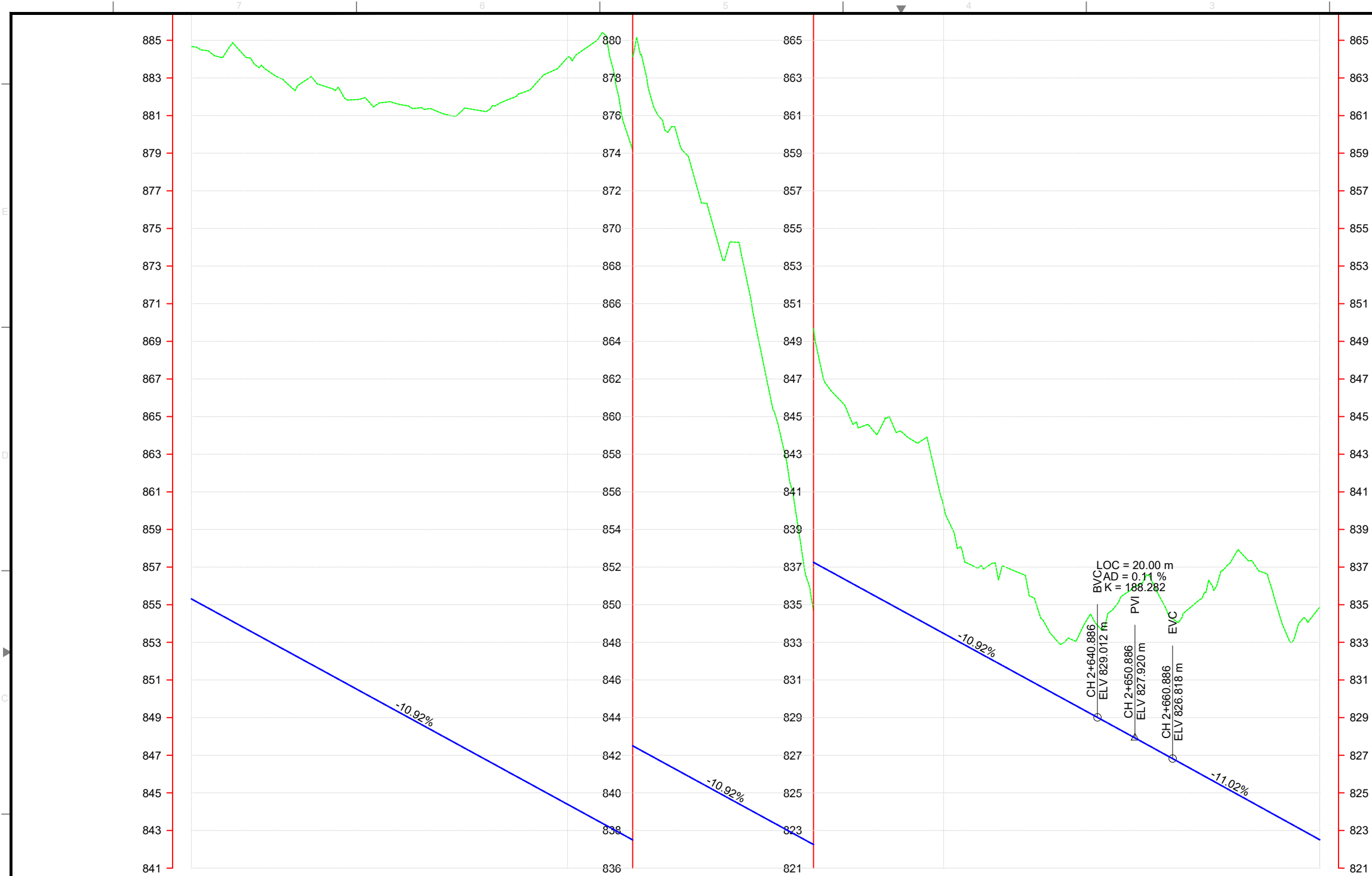
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SCALE 1 : 1500

ISSUED FOR CONSTRUCTION

Rev	Modification	Drawn:	Checked:	Recommended:	Approved:
Client: DORJILUNG HYDROPOWER PROJECT					
Project: DORJILUNG HYDROPOWER PROJECT (1125 MW) MONGAR, BHUTAN					
Title: DORJILUNG ROAD ADIT 6 PROFILE (2100 TO 2400 M)					
SHEET 11 OF 36					
CONSULTANT:	NAME	SIG.			
	Designed				
	Drawn				
	Checked				
	Approved				
	Issued Date	NOV 2024			
Original Size A3	Original Scale AS SHOWN	DRAWING NO. DHPP-ROAD-ADIT-6-2024-11	REV NA		



DESIGN LEVEL(m)	855.307	854.216	853.124	852.033	850.941	849.849	848.758	847.666	846.575	845.483	844.391	843.300	842.208	841.116	840.025	838.933	837.842	836.750	835.658	834.567	833.475	832.383	831.292	830.200	829.109	828.015	826.916	825.813	824.711	823.609	822.507
EXISTING LEVEL(m)	884.671	884.620	883.424	882.825	882.176	881.673	881.398	880.973	881.518	882.362	884.089	885.290	878.932	874.367	869.236	864.852	855.849	846.394	844.567	843.984	840.234	837.076	836.702	833.111	834.145	835.824	834.368	835.870	837.559	833.991	834.838
CHAINAGE(Km)	2+400	2+410	2+420	2+430	2+440	2+450	2+460	2+470	2+480	2+490	2+500	2+510	2+520	2+530	2+540	2+550	2+560	2+570	2+580	2+590	2+600	2+610	2+620	2+630	2+640	2+650	2+660	2+670	2+680	2+690	2+700
HORIZONTAL SCHEMATIC	L=10.168	L=15.761	L=21.682	L=22.557	L=13.938	L=16.978	L=7.646	L=8.325	L=9.660	L=18.962	L=21.039	L=17.808	L=20.290	L=17.913	L=13.509	L=9.036	L=5.915	L=11.083	L=12.697	L=11.804	L=4.665										
SUPER ELEVATION SCHEMATIC	2+400	SE:4%																													2+700

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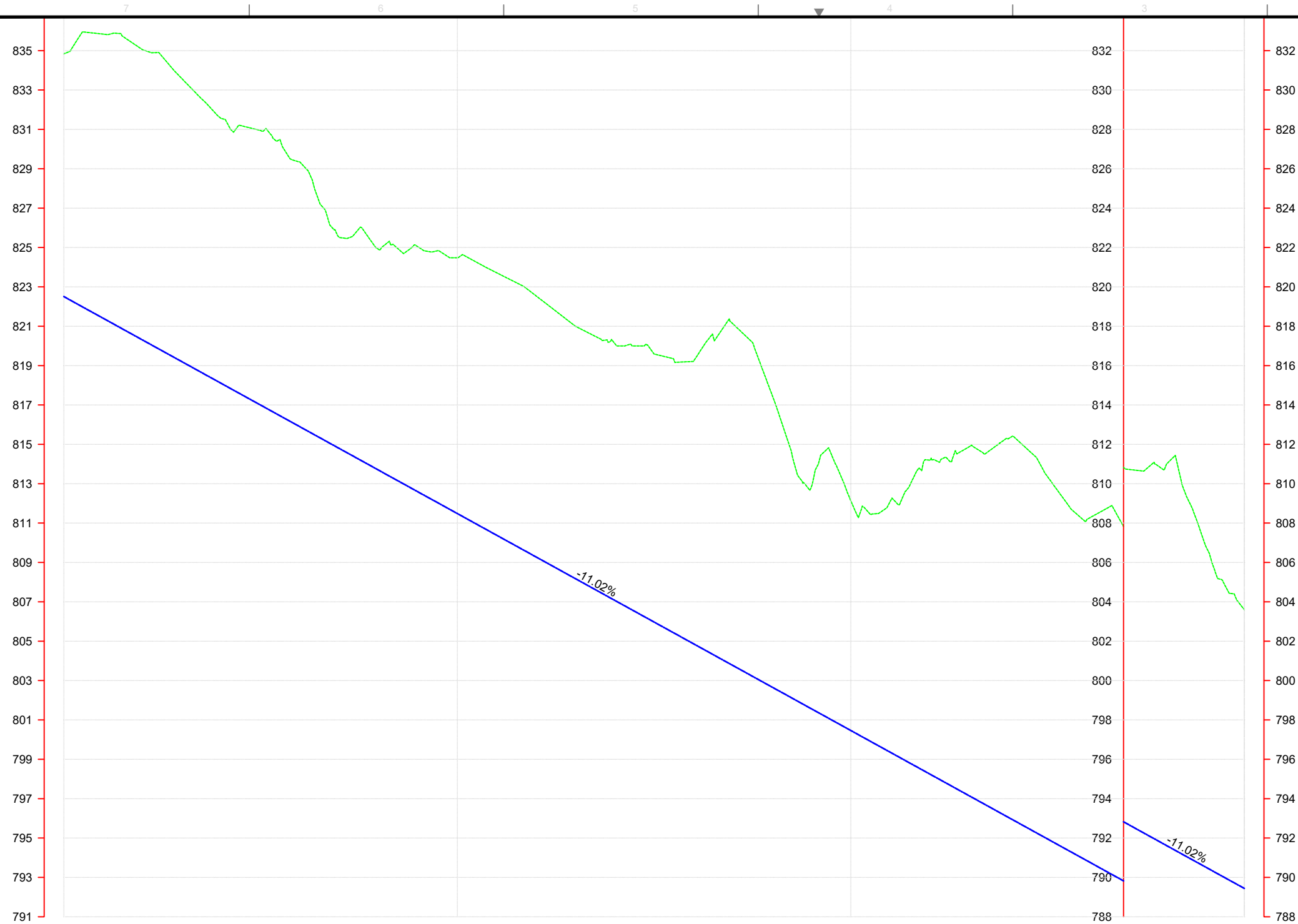
SCALE 1 : 1500

CHAINAGE : 2+400 - 2+700

IP No.	CO-ORDINATES(m)	
	EASTING	NORTHING
IP142	320484.028	3017735.278
IP103	320496.442	3017727.466
IP122	320510.504	3017720.348
IP104	320530.296	3017711.494
IP138	320549.827	3017700.209
IP139	320560.591	3017691.355
IP123	320568.172	3017676.164
IP143	320568.490	3017668.525
IP124	320569.932	3017660.326
IP140	320569.262	3017650.689
IP125	320555.938	3017637.197
47	320571.096	3017616.691
IP197	320569.420	3017594.485
IP201	320566.739	3017574.373
IP105	320568.247	3017556.524
IP106	320564.686	3017543.493
IP126	320560.412	3017535.532
IP200	320560.705	3017529.624
IP199	320557.605	3017518.982
IP198	320553.289	3017507.040
IP180	320549.057	3017496.021

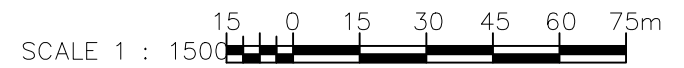
ISSUED FOR CONSTRUCTION

Rev	Modification	Drawn	Checked	Recommended	Approved
Client: <div>DORJILUNG HYDROPOWER PROJECT</div>					
Project: <div>DORJILUNG HYDROPOWER PROJECT (1125 MW) MONGAR, BHUTAN</div>					
Title: <div>DORJILUNG ROAD ADIT 6 PROFILE (2400 TO 2700 M)</div>					
SHEET 12 OF 36					
CONSULTANT:			NAME	SIG.	
 <div>འདུག་རྩིས་འཛུགས་ལྟན་འགྲུབ་སྒྲོལ་མ་སྒྲིལ་བློ་བློན་ལྷན་ཁག་ Druk Green Consultancy</div>		Designed			
		Drawn			
		Checked			
		Approved			
		Issued Date	NOV 2024		
Original Size A3	Original Scale AS SHOWN	DRAWING NO. DHPP-ROAD-ADIT-6-2024-12			REV NA



CHAINAGE : 2+700 - 3+000

IP No.	CO-ORDINATES(m)	
	EASTING	NORTHING
IP180	320549.057	3017496.021
IP181	320555.216	3017488.269
IP179	320566.655	3017481.314
IP167	320579.057	3017464.052
49	320583.289	3017453.577
IP154	320589.029	3017445.658
IP202	320597.158	3017441.635
IP201	320603.485	3017430.909
IP201	320613.540	3017419.010
50	320629.085	3017387.711
51	320635.454	3017363.493
IP182	320622.549	3017349.918
IP200	320614.588	3017341.621
IP199	320609.728	3017337.515
52	320614.001	3017329.638
IP202	320620.604	3017299.385
IP203	320617.285	3017276.920
IP183	320612.562	3017266.453
IP150	320610.073	3017252.285
IP151	320621.561	3017245.520
53	320627.943	3017233.650

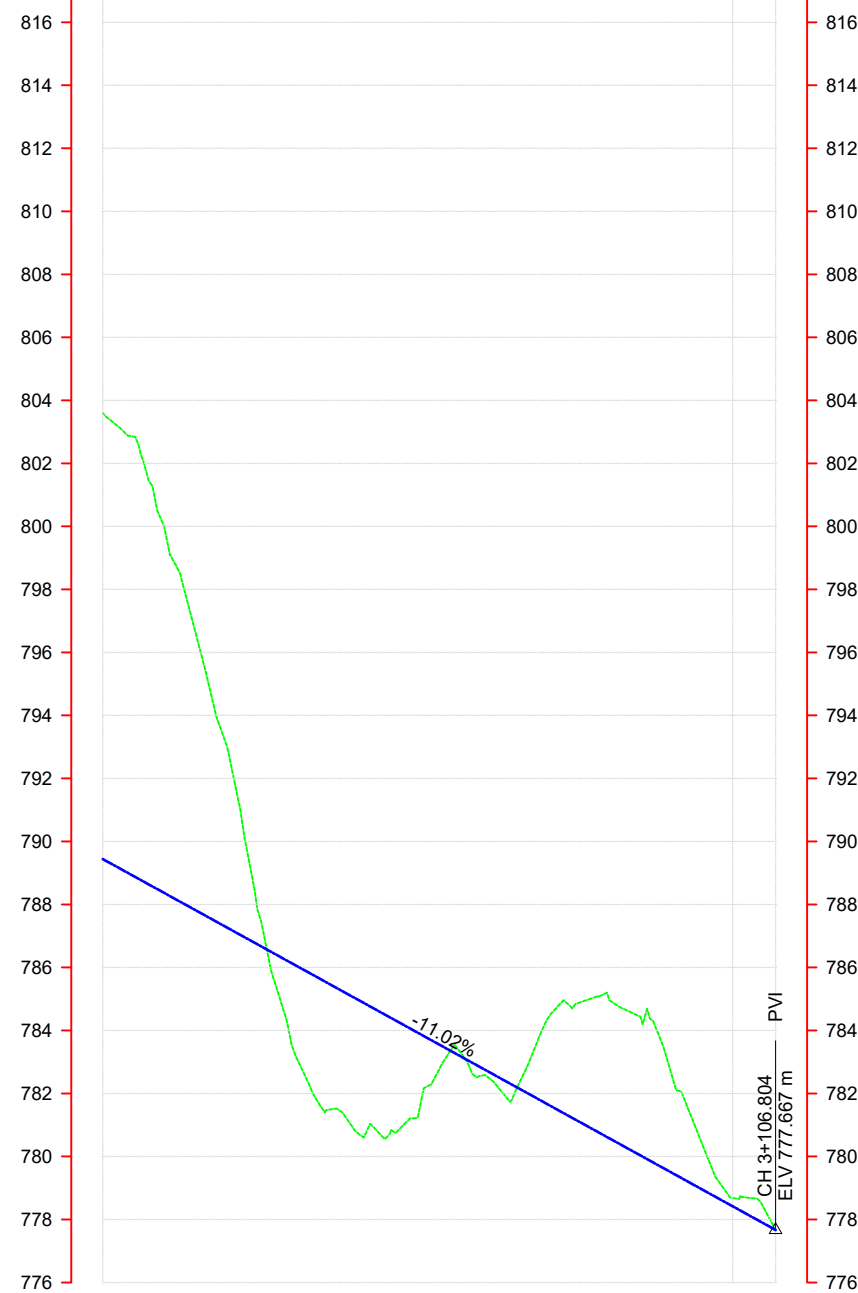


ISSUED FOR CONSTRUCTION

DESIGN LEVEL(m)																															
EXISTING LEVEL(m)																															
CHAINAGE(Km)																															
HORIZONTAL SCHEMATIC																															
SUPER ELEVATION SCHEMATIC																															

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Rev	Modification	Drawn:	Checked:	Recommended:	Approved:
Client: DORJILUNG HYDROPOWER PROJECT					
Project: DORJILUNG HYDROPOWER PROJECT (1125 MW) MONGAR, BHUTAN					
Title: DORJILUNG ROAD ADIT 6 PROFILE (2700 TO 3000 M)					
SHEET 13 OF 36					
CONSULTANT:	NAME	SIG.			
	Designed				
	Drawn				
	Checked				
	Approved				
Issued Date	NOV 2024				
Original Size A3	Original Scale AS SHOWN	DRAWING NO. DHPP-ROAD-ADIT-6-2024-13		REV NA	



CHAINAGE : 3+000 - 3+106.804

IP No.	CO-ORDINATES(m)	
	EASTING	NORTHING
53	320627.943	3017233.650
IP206	320636.367	3017234.735
IP169	320644.026	3017245.712
60	320661.385	3017244.818
IP205	320657.208	3017229.851
IP170	320656.454	3017223.147
61	320652.642	3017207.802
IP171	320661.896	3017198.740
IP138	320672.167	3017194.111


[illegible]

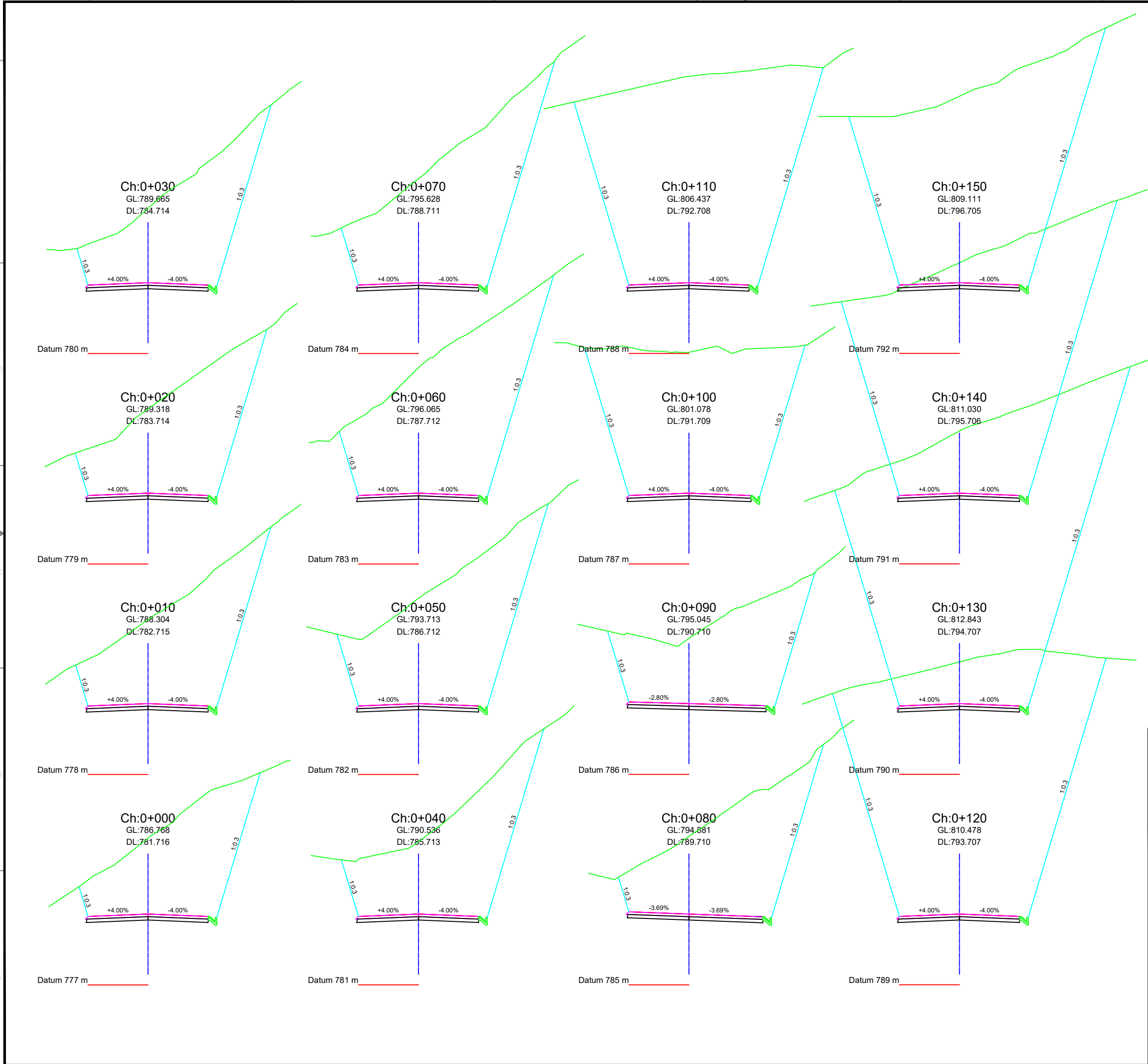
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ISSUED FOR CONSTRUCTION

Rev	Modification	Drawn:	Checked:	Recommended:	Approved:
Client: DORJILUNG HYDROPOWER PROJECT					
Project: DORJILUNG HYDROPOWER PROJECT (1125 MW) MONGAR, BHUTAN					
Title: DORJILUNG ROAD ADIT 6 PROFILE (3000 TO 3106.8 M) SHEET 14 OF 36					
CONSULTANT:  འཇམ་དཔལ་འཁོར་ལོ་གྲོལ་བླ་མ་གྲྭ་བཙུན་པ་ Druk Green Consultancy		NAME SIGNED DESIGNED DRAWN CHECKED APPROVED ISSUED DATE		NOV 2024	
Original Size A3	Original Scale AS SHOWN	DRAWING NO. DHPP-ROAD-ADIT-6-2024-14		REV NA	



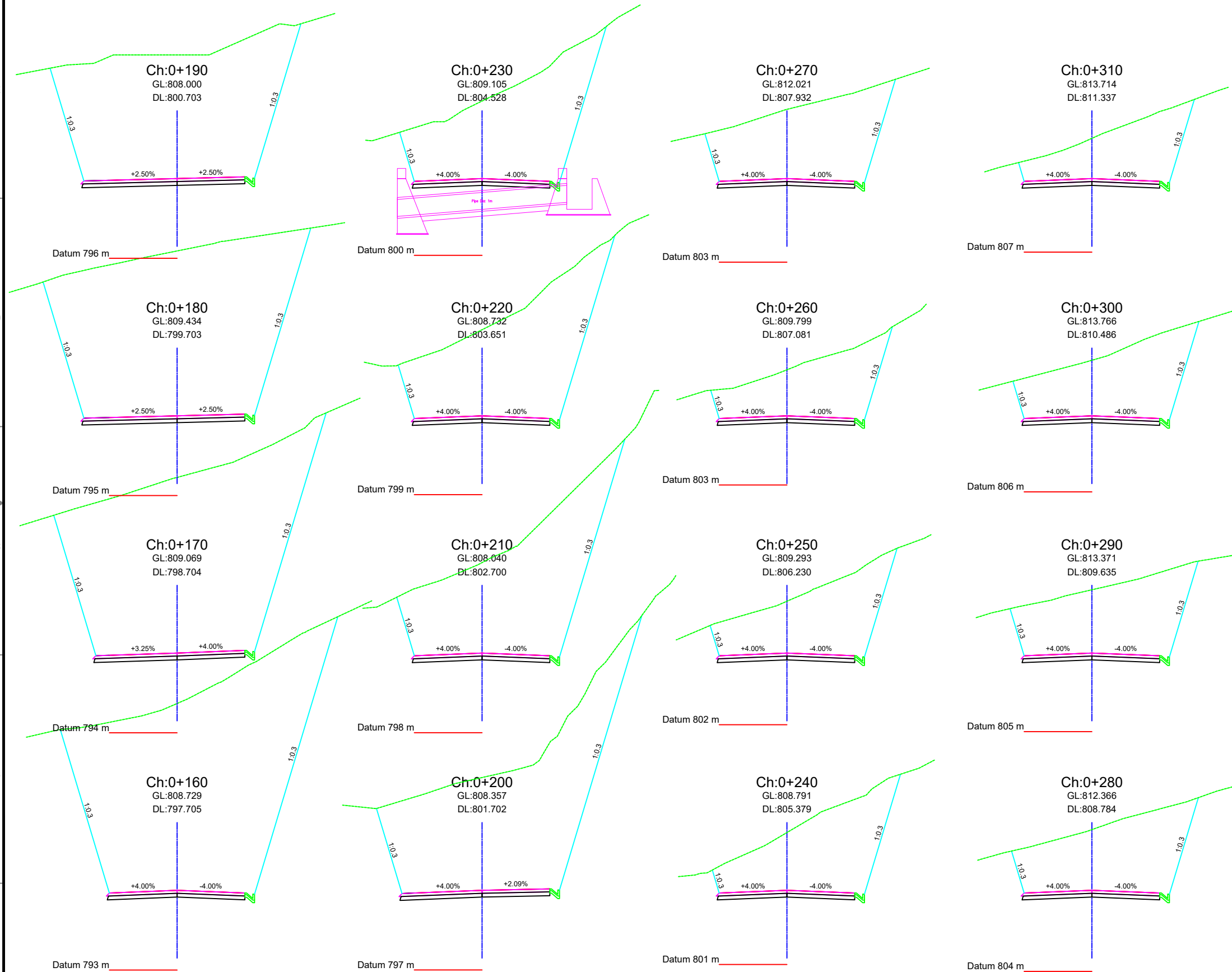
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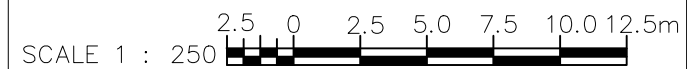
SCALE 1 : 250

ISSUED FOR CONSTRUCTION


Rev	Modification	Drawn:	Checked:	Recommended:	Approved:
Client: DORJILUNG HYDROPOWER PROJECT					
Project: DORJILUNG HYDROPOWER PROJECT (1125 MW) MONGAR, BHUTAN					
Title: DORJILUNG ROAD ADIT 5 CROSS SECTION					
SHEET 15 OF 36					
CONSULTANT:		NAME	SIG.		
		Designed			
		Drawn			
		Checked			
		Approved			
		Issued Date	NOV 2024		
Original Size	Original Scale	DRAWING NO.			REV
A3	AS SHOWN	DHPP-ADIT-6-ROAD-2024-15			NA

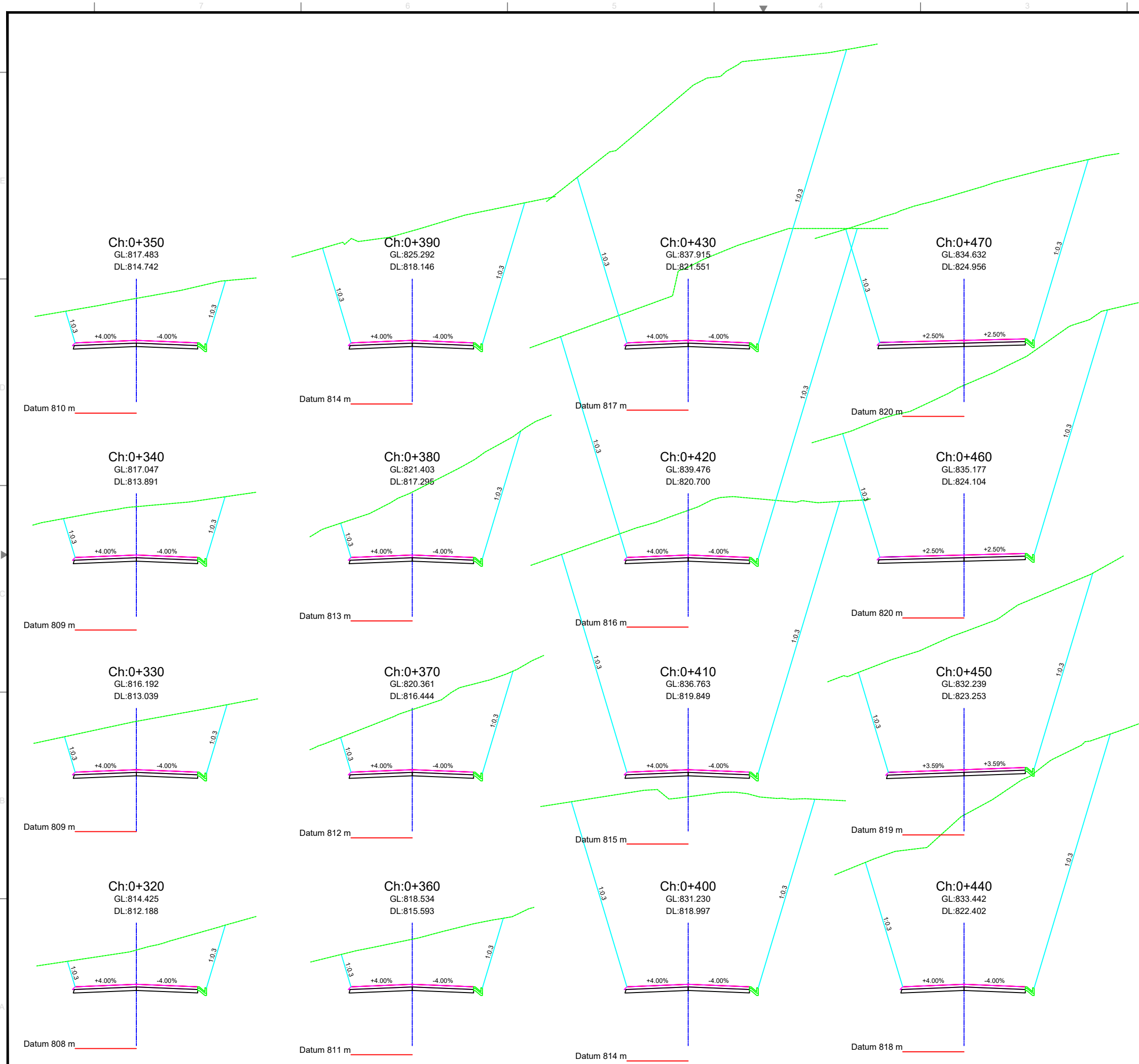


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ISSUED FOR CONSTRUCTION

Rev	Modification	Drawn	Checked	Recommended	Approved
Client: DORJILUNG HYDROPOWER PROJECT					
Project: DORJILUNG HYDROPOWER PROJECT (1125 MW) MONGAR, BHUTAN					
Title: DORJILUNG ROAD ADIT 6 CROSS SECTION SHEET 16 OF 36					
CONSULTANT:		NAME	SIG.		
		Designed			
		Drawn			
		Checked			
		Approved			
		Issued Date	NOV 2024		
Original Size A3	Original Scale AS SHOWN	DRAWING NO. DHPP-ADIT-6-ROAD-2024-16		REV NA	



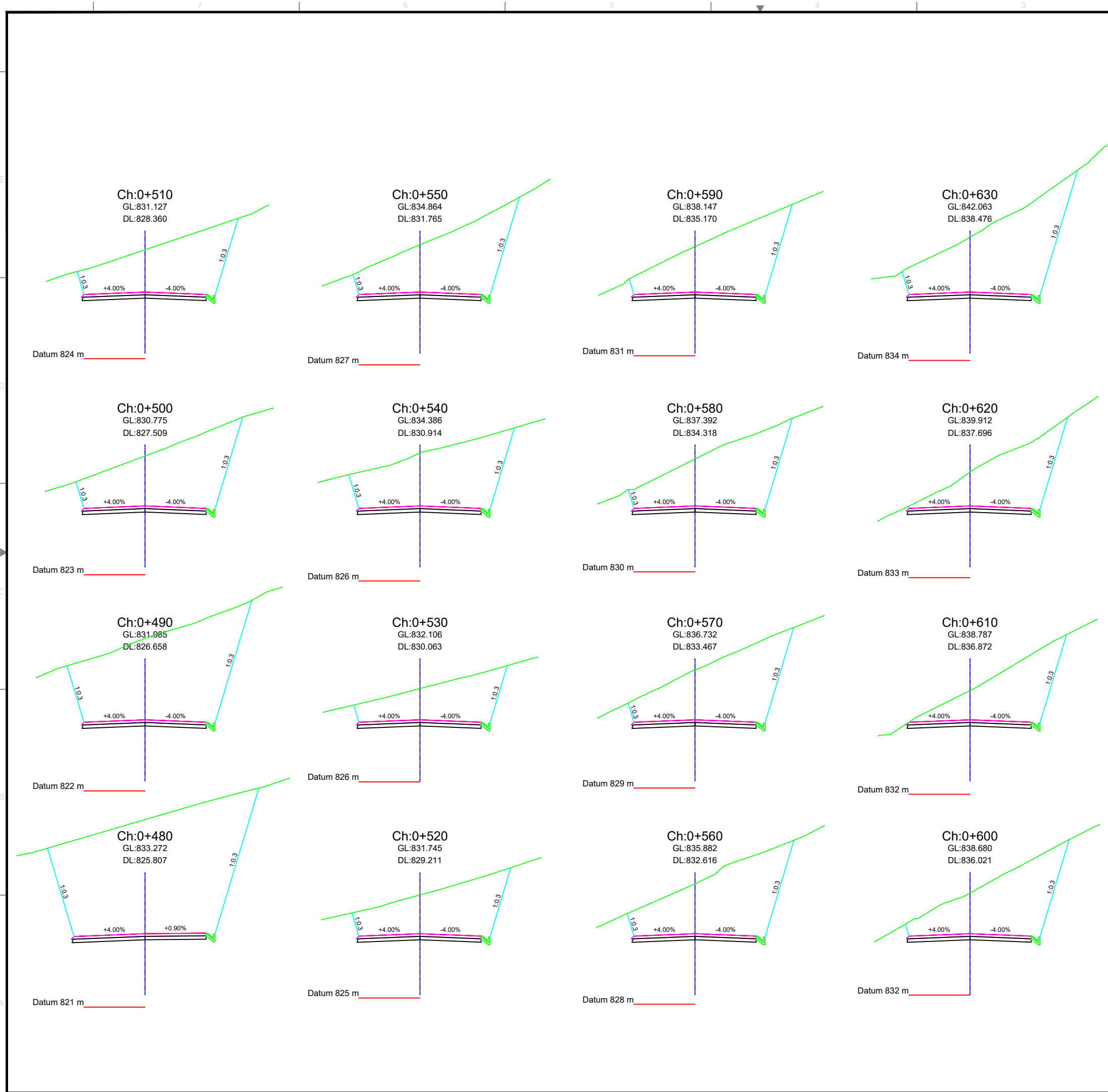
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SCALE 1 : 250

ISSUED FOR CONSTRUCTION

Rev	Modification	Drawn	Checked	Recommended	Approved
Client: DORJILUNG HYDROPOWER PROJECT					
Project: DORJILUNG HYDROPOWER PROJECT (1125 MW) MONGAR, BHUTAN					
Title: DORJILUNG ROAD ADIT 6 CROSS SECTION SHEET 17 OF 36					
CONSULTANT:		NAME	SIG.		
		Designed			
		Drawn			
		Checked			
		Approved			
		Issued Date	NOV 2024		
Original Size A3	Original Scale AS SHOWN	DRAWING NO. DHPP-ADIT-6-ROAD-2024-17			REV NA



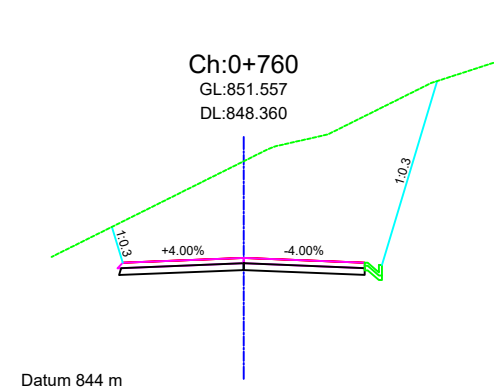
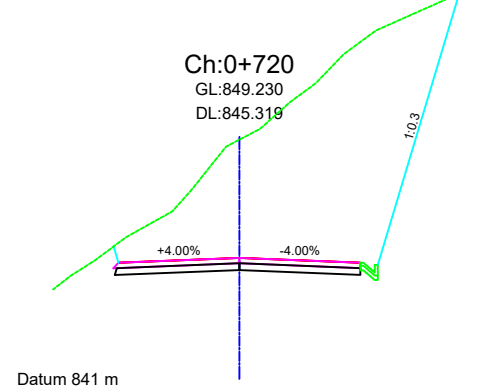
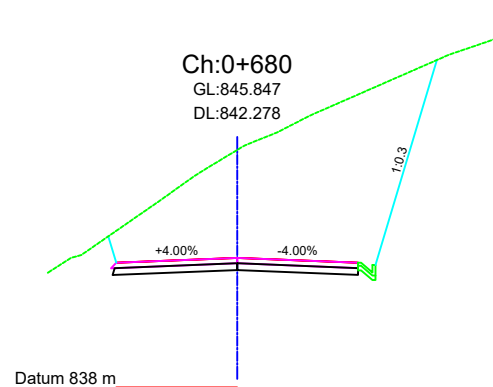
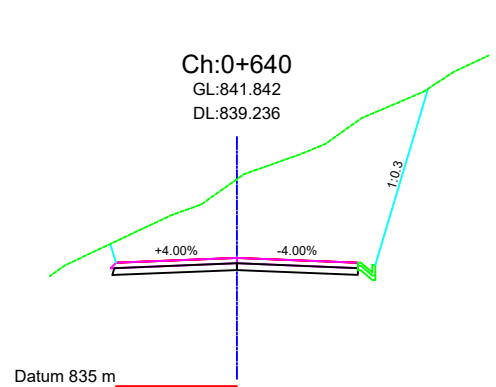
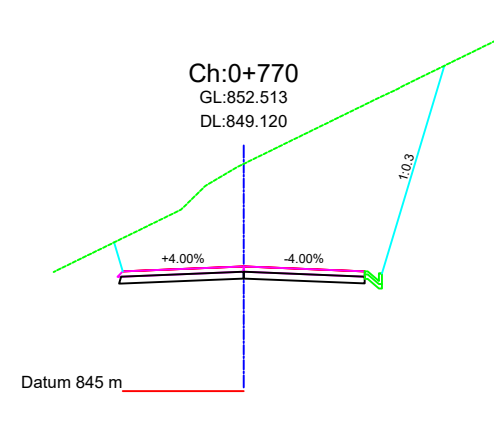
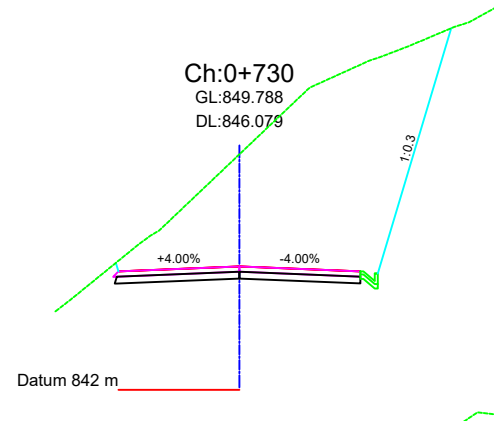
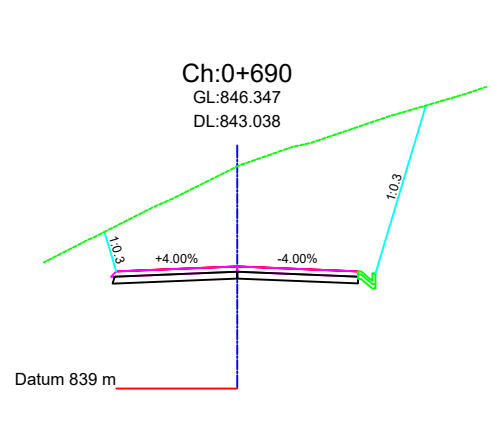
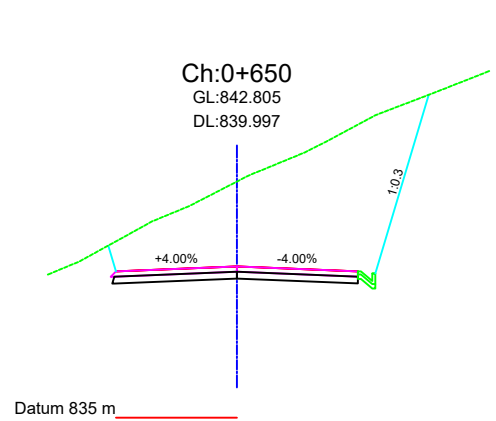
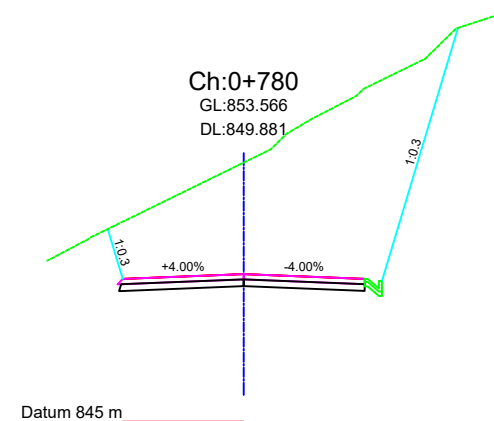
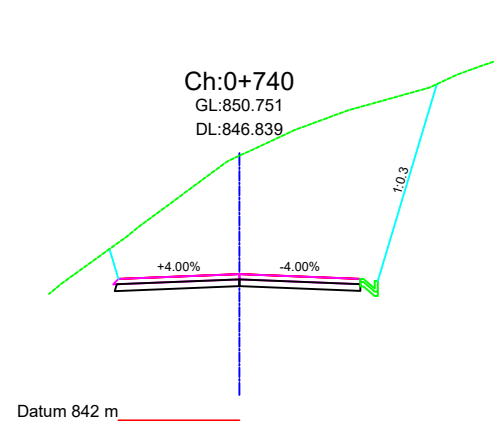
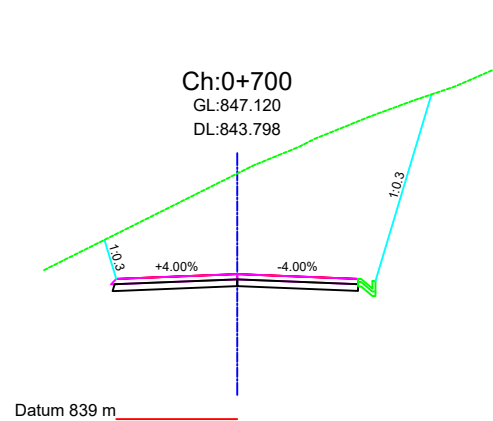
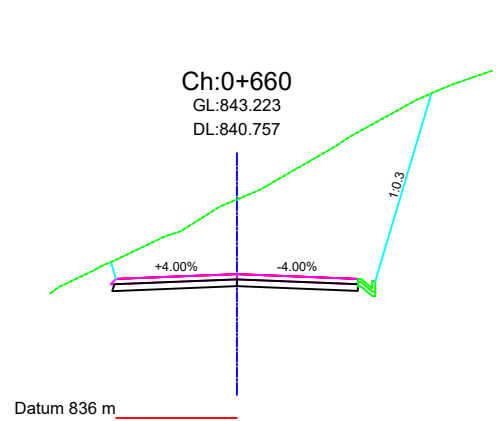
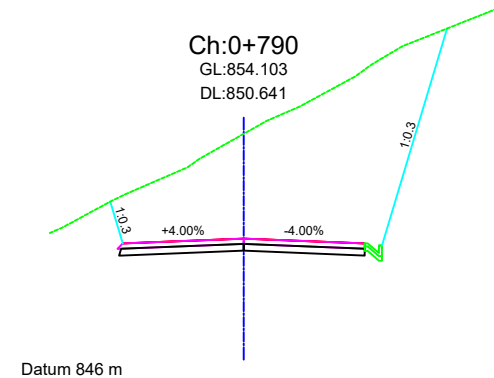
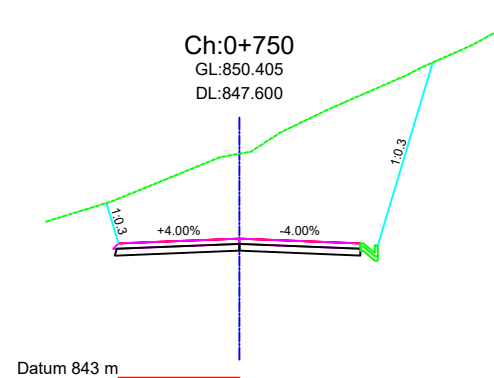
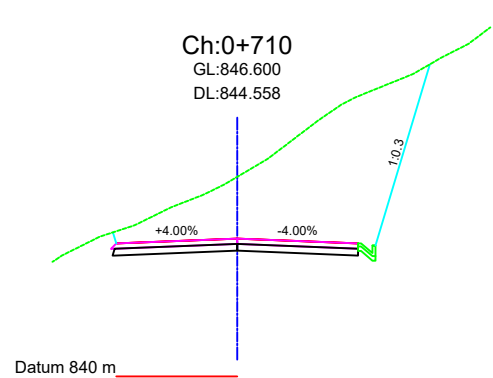
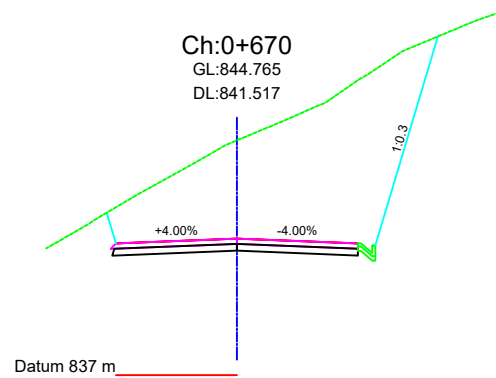
- NOTE:
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SCALE 1 : 250

ISSUED FOR CONSTRUCTION

Rev	Modification	Drawn	Checked	Recommended	Approved
Client: DORJILUNG HYDROPOWER PROJECT					
Project: DORJILUNG HYDROPOWER PROJECT (1125 MW) MONGAR, BHUTAN					
Title: DORJILUNG ROAD ADIT 6 CROSS SECTION					
SHEET 18 OF 36					
CONSULTANT:		NAME	SIG.		
		Designed			
		Drawn			
		Checked			
		Approved			
		Issued Date	NOV 2024		
Original Size	Original Scale	DRAWING NO.			REV
A3	AS SHOWN	DHPP-ADIT-6-ROAD-2024-18			NA



- NOTE:
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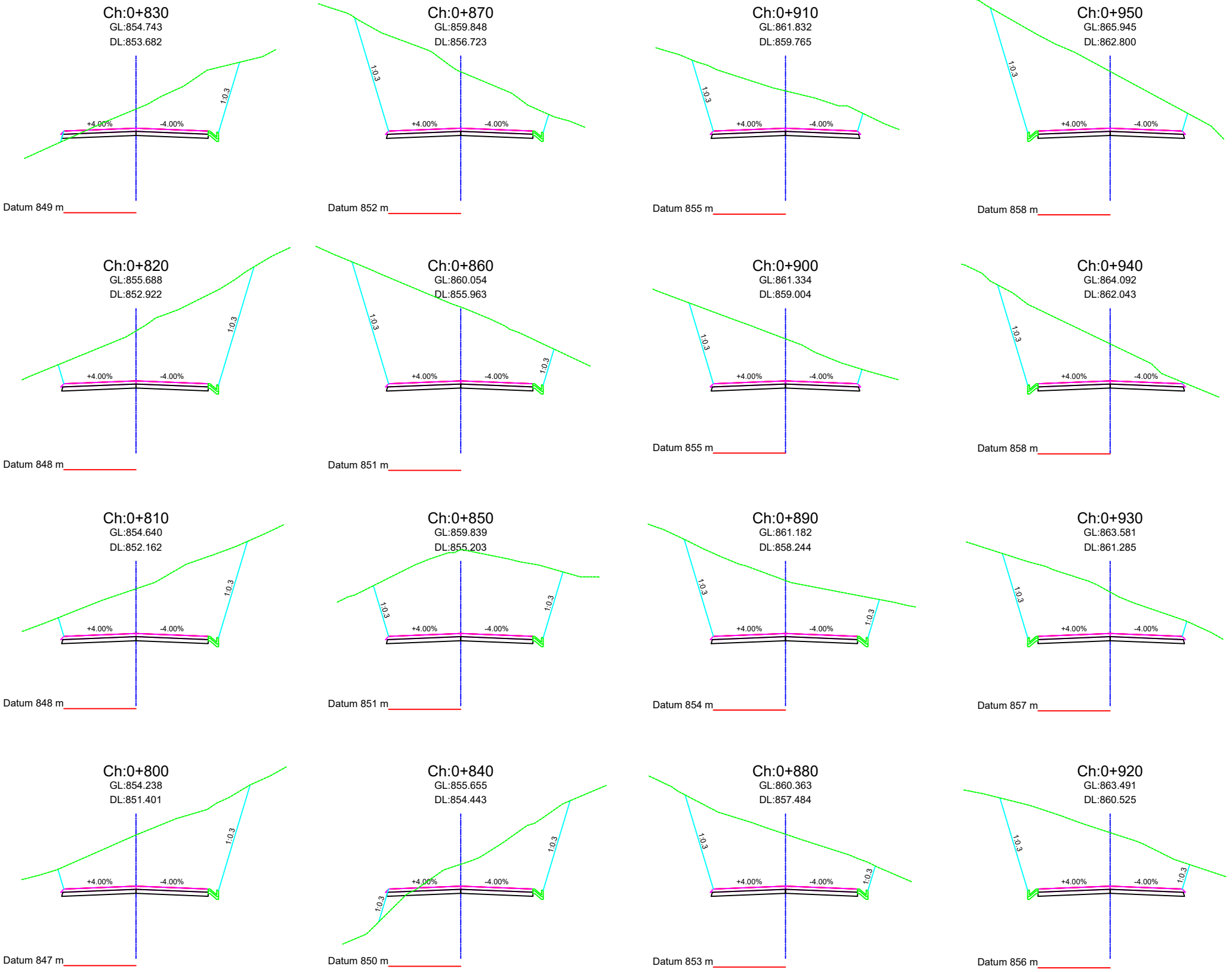


SCALE 1 : 250

ISSUED FOR CONSTRUCTION

Rev	Modification	Drawn	Checked	Recommended	Approved
Client: DORJILUNG HYDROPOWER PROJECT					
Project: DORJILUNG HYDROPOWER PROJECT (1125 MW) MONGAR, BHUTAN					
Title: DORJILUNG ROAD ADIT 6 CROSS SECTION SHEET 19 OF 36					
CONSULTANT:		NAME	SIG.		
		Designed			
		Drawn			
		Checked			
		Approved			
		Issued Date	NOV 2024		
Original Size A3	Original Scale AS SHOWN	DRAWING NO. DHPP-ADIT-6-ROAD-2024-19			REV NA

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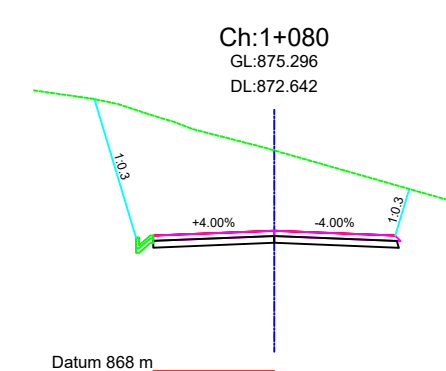
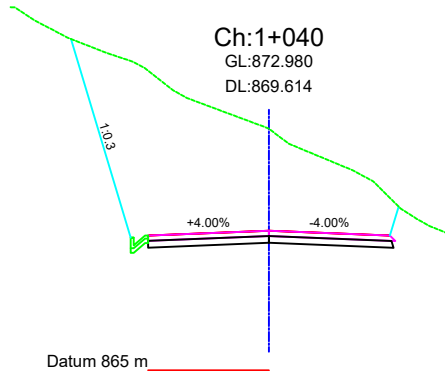
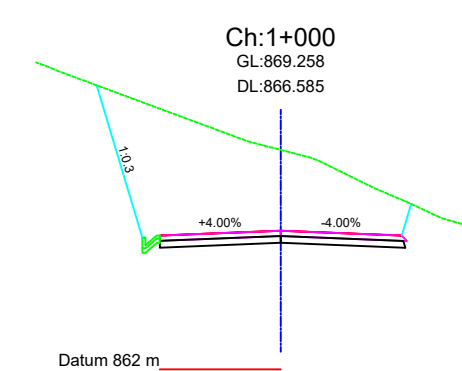
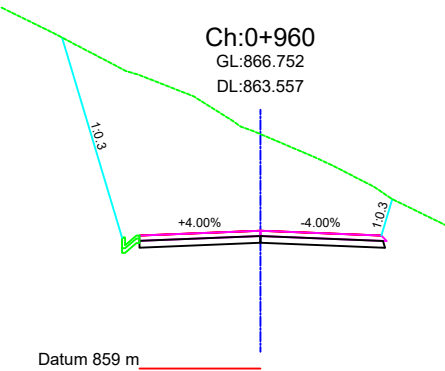
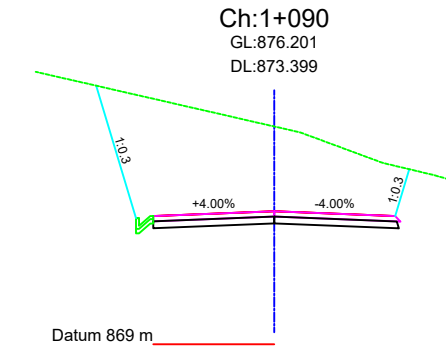
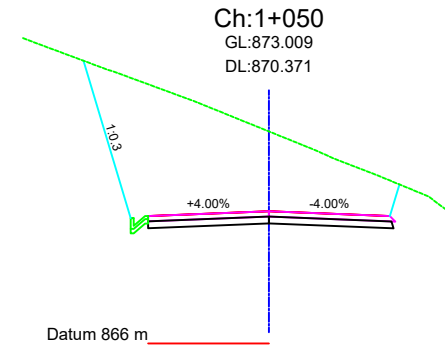
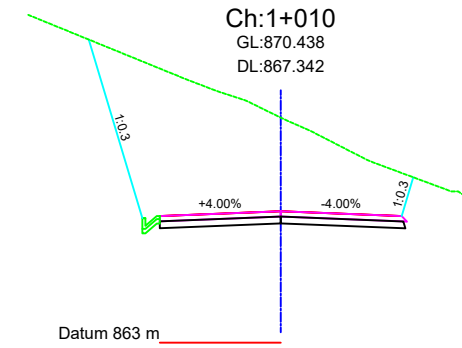
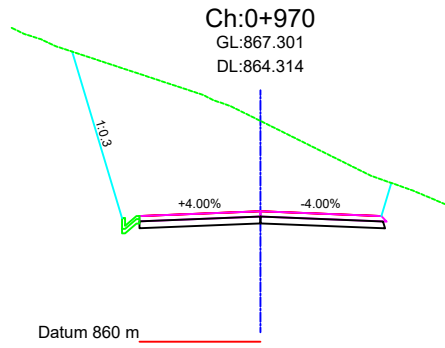
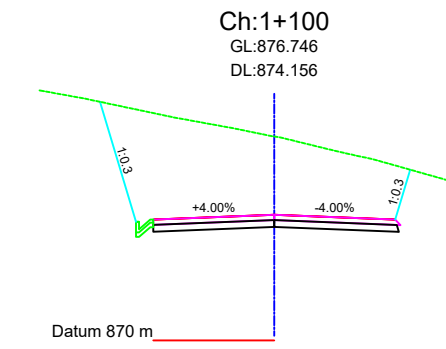
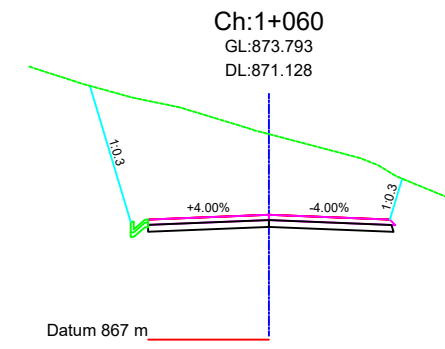
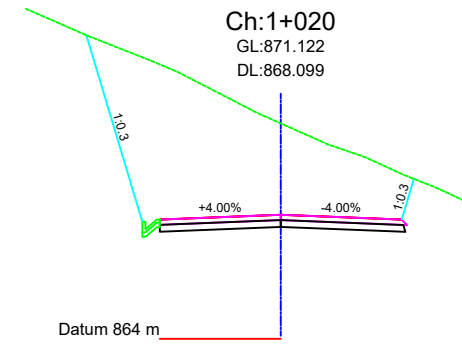
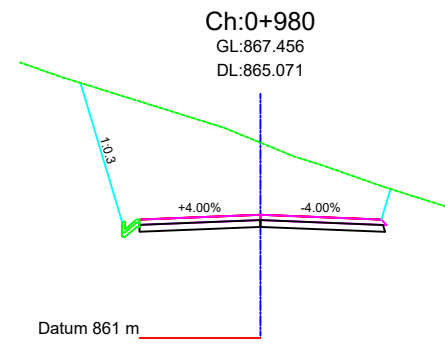
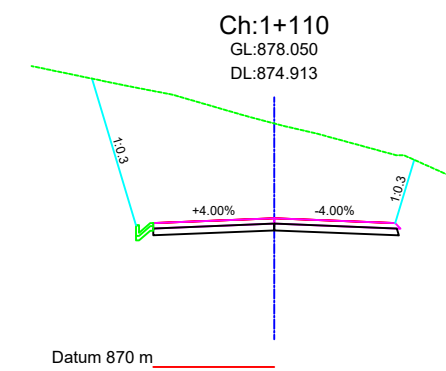
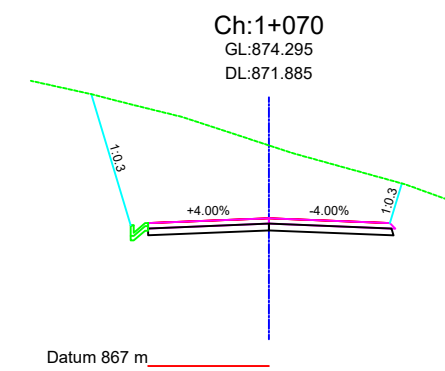
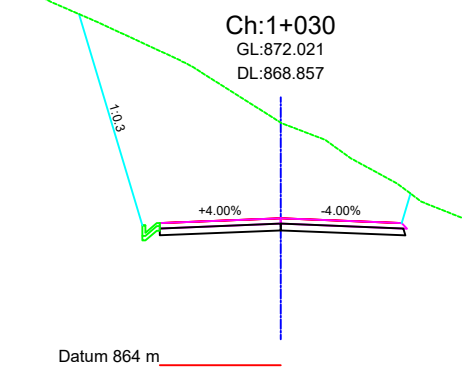
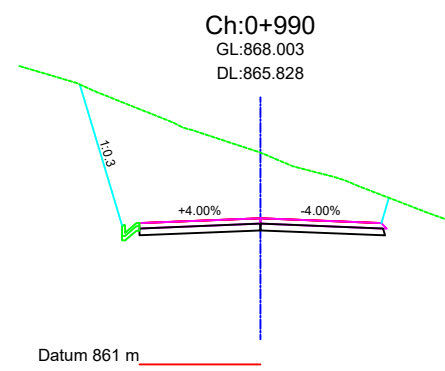


SCALE 1 : 250

ISSUED FOR CONSTRUCTION

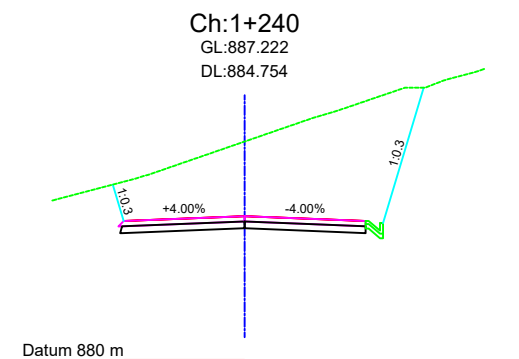
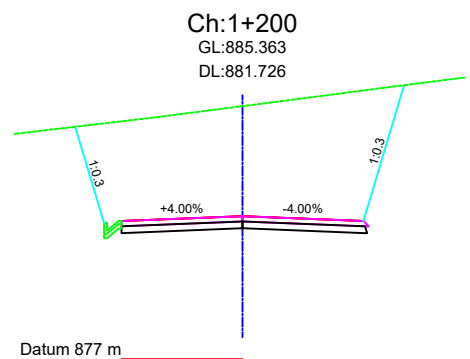
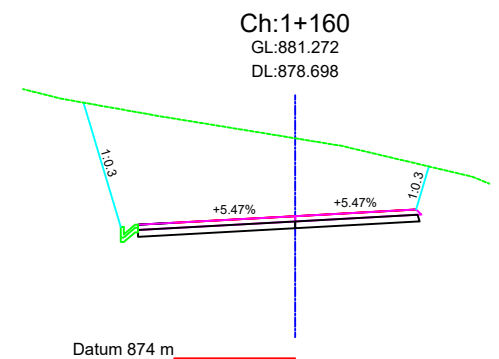
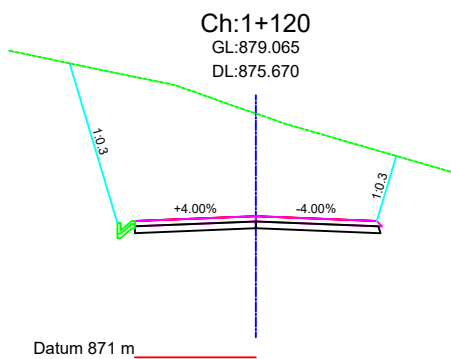
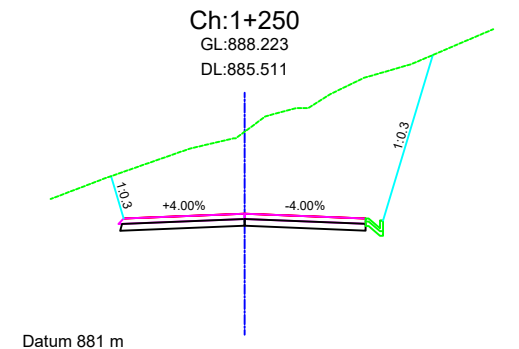
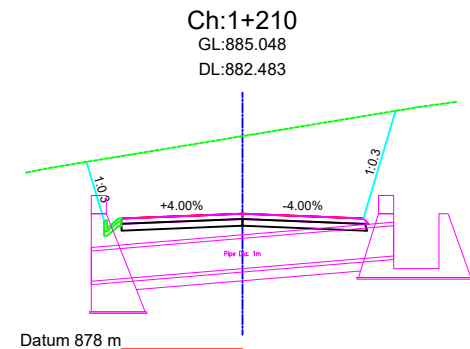
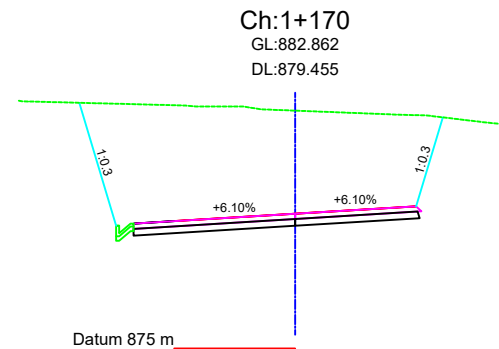
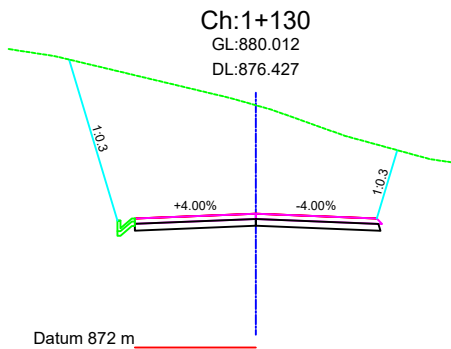
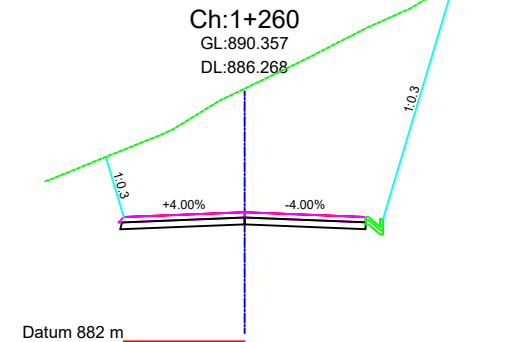
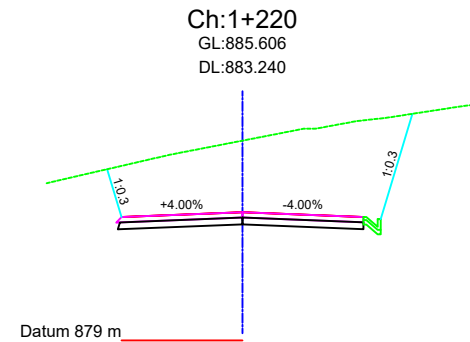
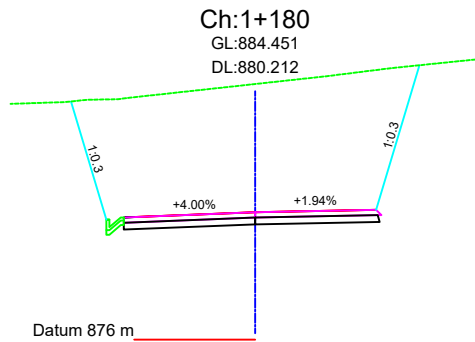
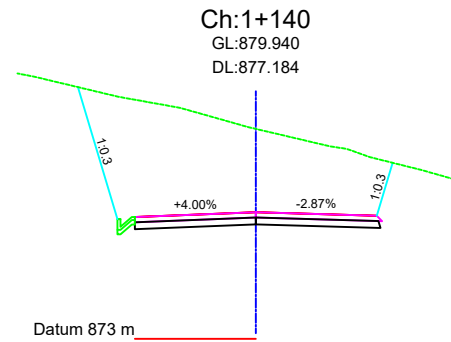
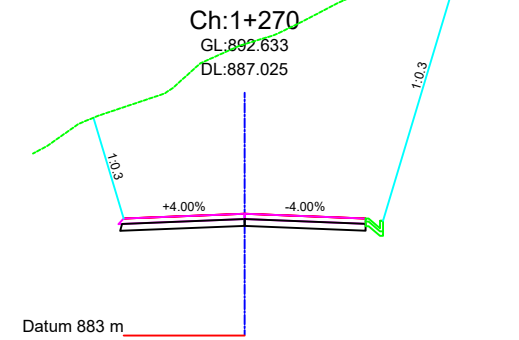
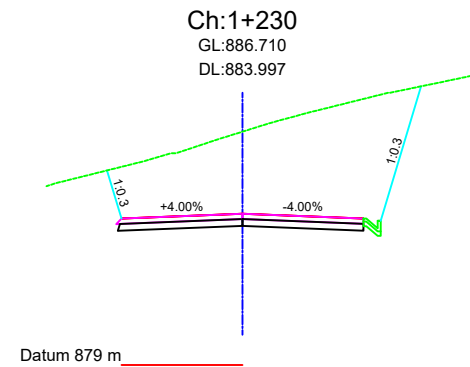
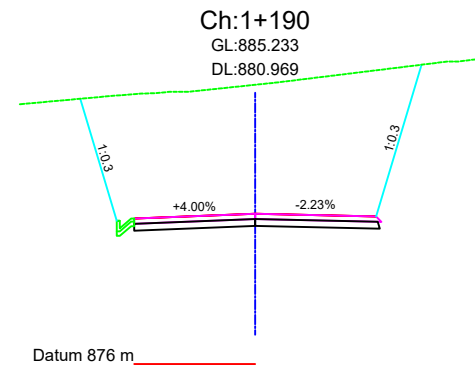
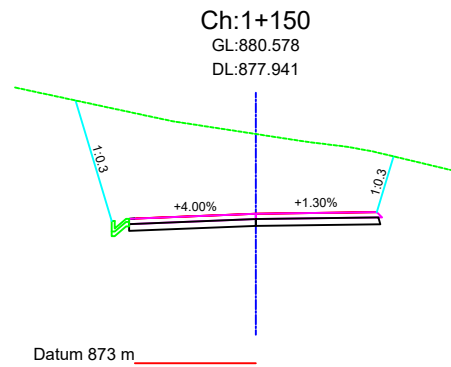
Rev	Modification	Drawn:	Checked:	Recommended:	Approved:
Client: DORJILUNG HYDROPOWER PROJECT					
Project: DORJILUNG HYDROPOWER PROJECT (1125 MW) MONGAR, BHUTAN					
Title: DORJILUNG ROAD ADIT 6 CROSS SECTION SHEET 20 OF 36					
CONSULTANT:		NAME	SIG.		
		Designed			
		Drawn			
		Checked			
		Approved			
		Issued Date	NOV 2024		
Original Size A3	Original Scale AS SHOWN	DRAWING NO. DHPP-ADIT-6-ROAD-2024-20		REV NA	

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ISSUED FOR CONSTRUCTION

Rev	Modification	Drawn:	Checked:	Recommended:	Approved:
Client: DORJILUNG HYDROPOWER PROJECT					
Project: DORJILUNG HYDROPOWER PROJECT (1125 MW) MONGAR, BHUTAN					
Title: DORJILUNG ROAD ADIT 6 CROSS SECTION					
SHEET 21 OF 36					
CONSULTANT:		NAME	SIG.		
		Designed			
		Drawn			
		Checked			
		Approved			
		Issued Date	NOV 2024		
Original Size	Original Scale	DRAWING NO.			REV
A3	AS SHOWN	DHPP-ADIT-6-ROAD-2024-21			NA




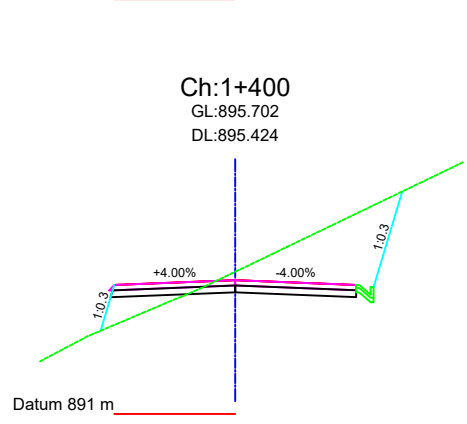
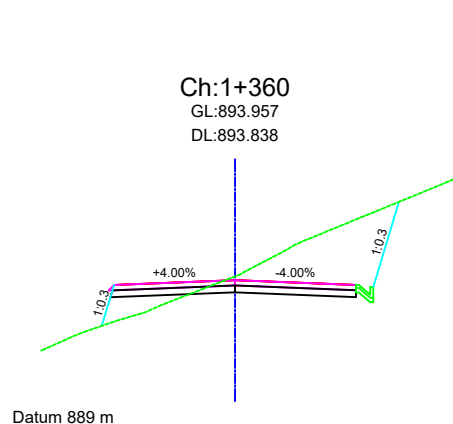
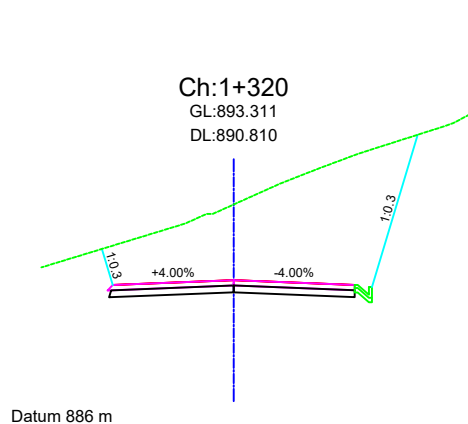
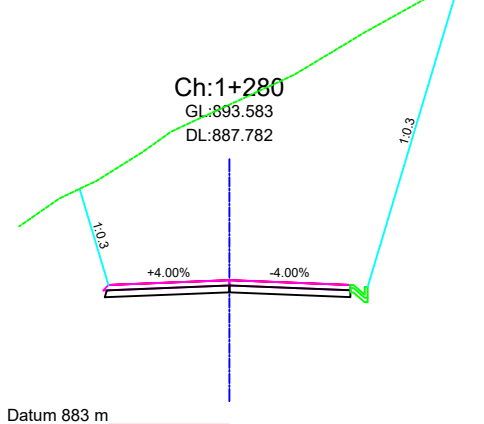
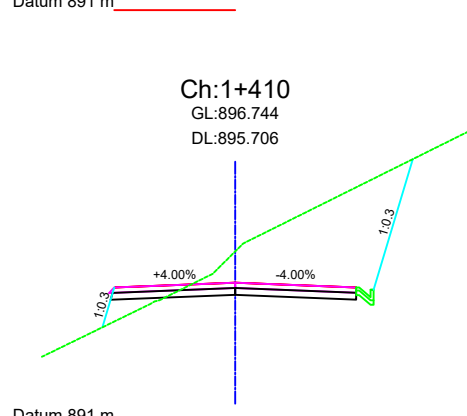
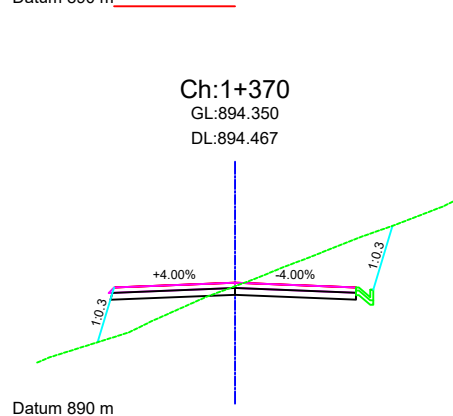
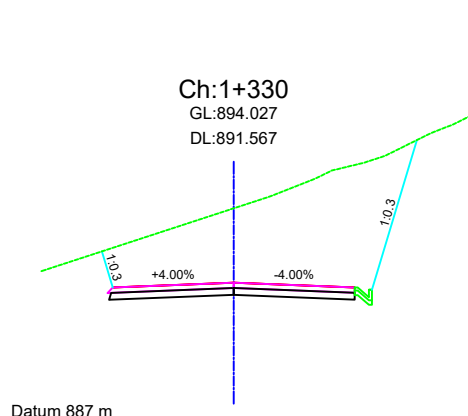
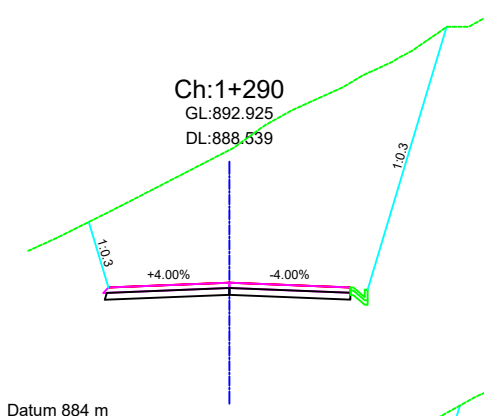
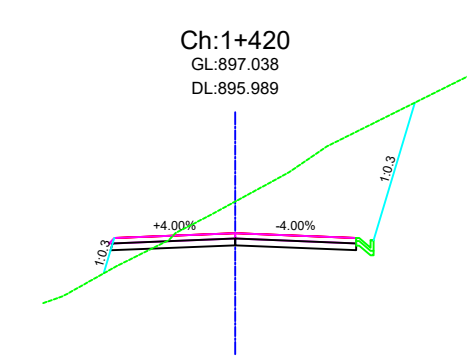
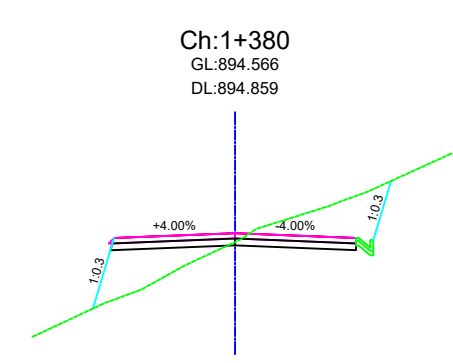
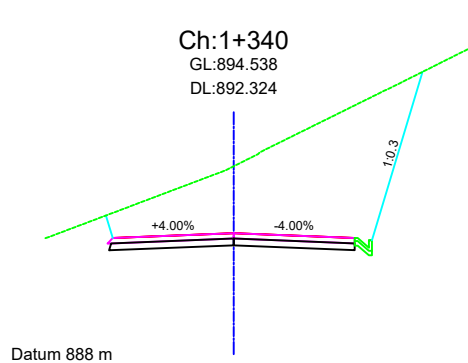
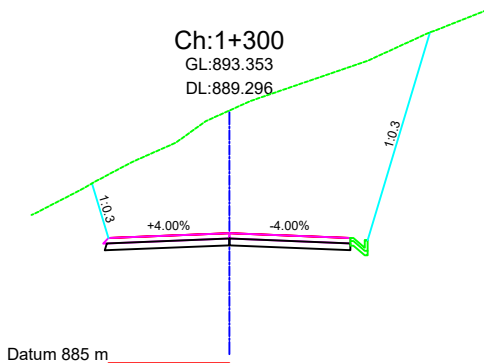
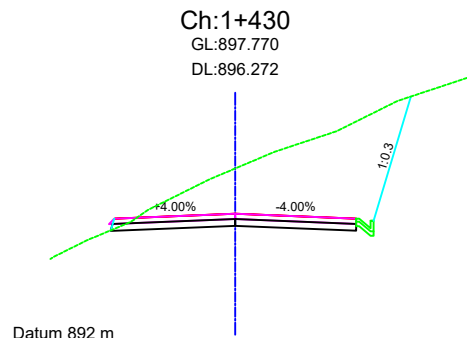
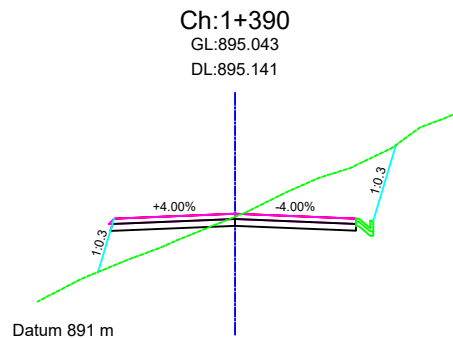
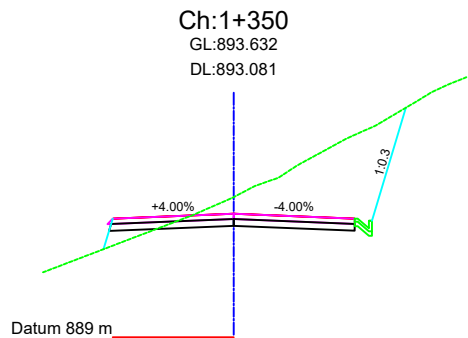
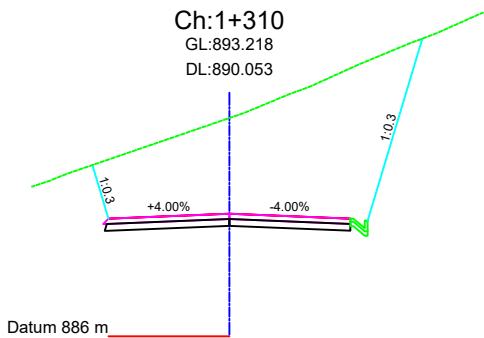
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SCALE 1 : 250

ISSUED FOR CONSTRUCTION

Rev	Modification	Drawn	Checked	Recommended	Approved
Client: DORJILUNG HYDROPOWER PROJECT					
Project: DORJILUNG HYDROPOWER PROJECT (1125 MW) MONGAR, BHUTAN					
Title: DORJILUNG ROAD ADIT 6 CROSS SECTION					
SHEET 22 OF 36					
CONSULTANT:		NAME	SIG.		
		Designed			
		Drawn			
		Checked			
		Approved			
		Issued Date	NOV 2024		
Original Size A3	Original Scale AS SHOWN	DRAWING NO. DHPP-ADIT-6-ROAD-2024-22		REV	NA



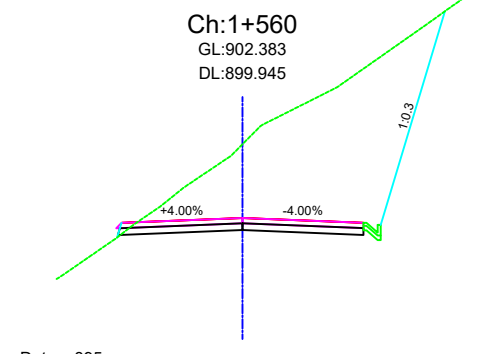
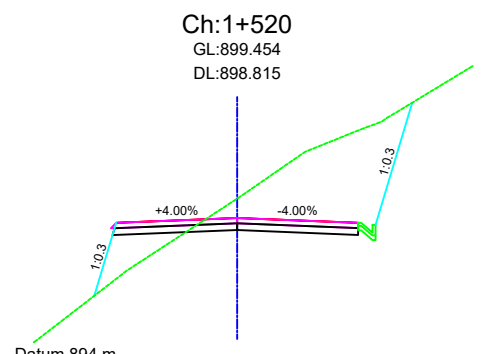
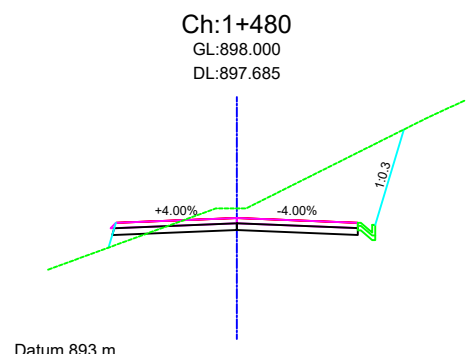
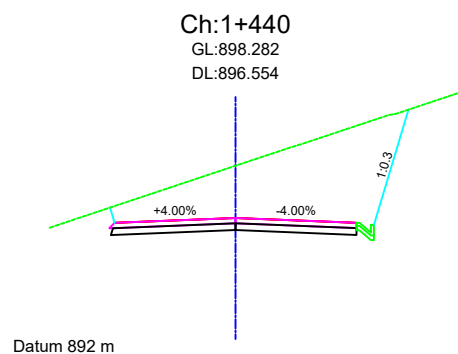
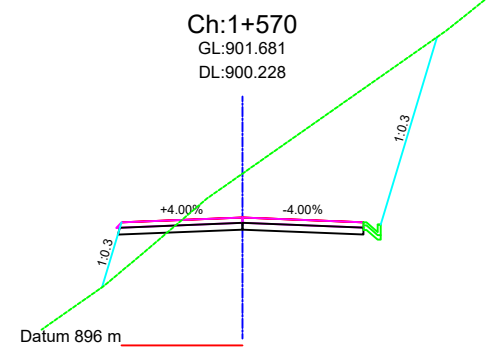
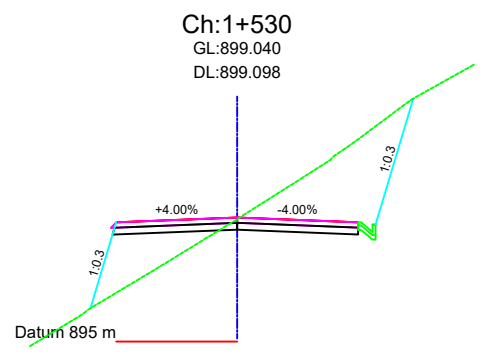
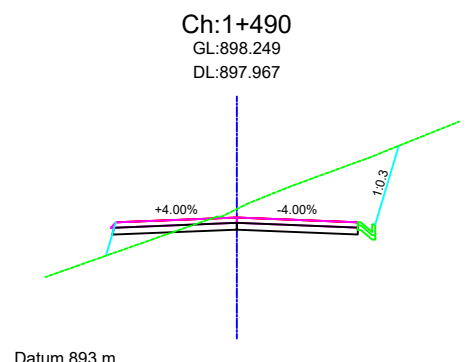
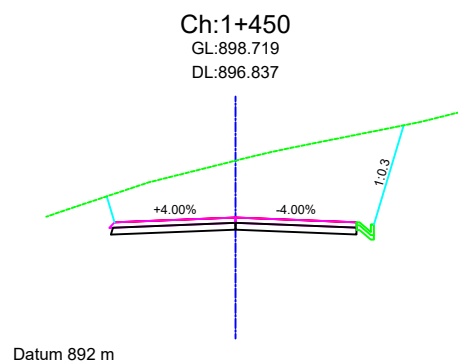
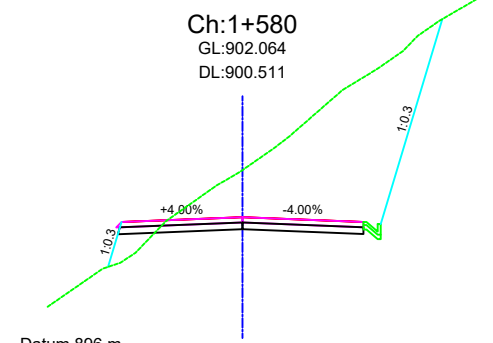
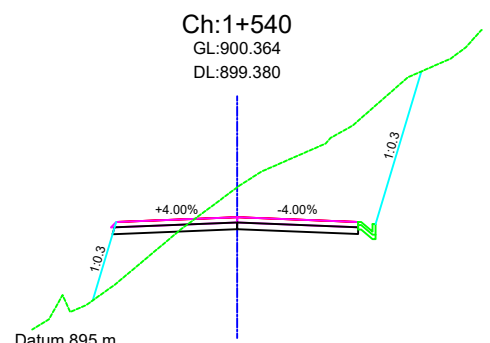
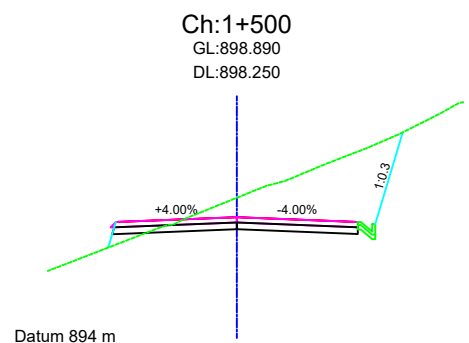
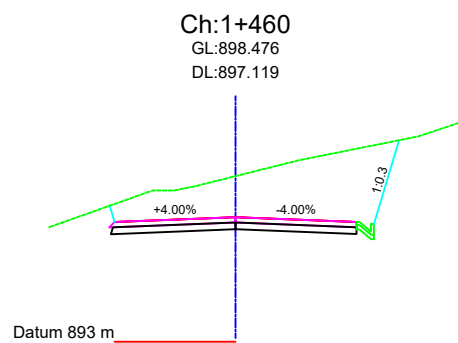
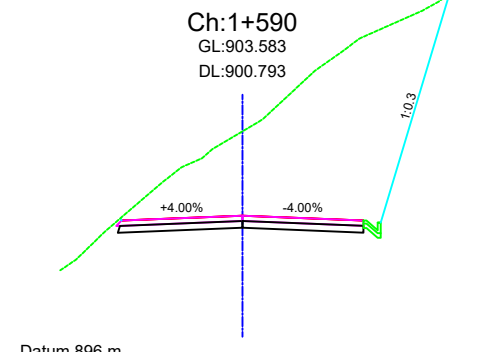
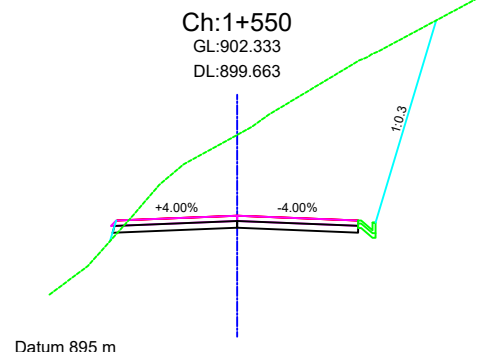
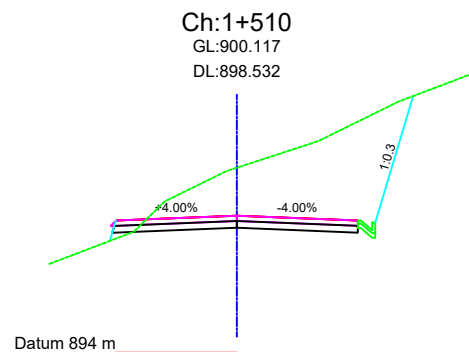
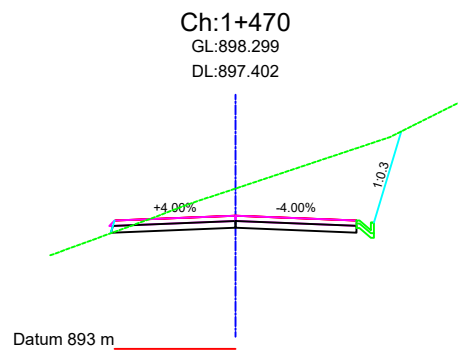
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SCALE 1 : 250

ISSUED FOR CONSTRUCTION

Rev	Modification	Drawn	Checked	Recommended	Approved
Client: DORJILUNG HYDROPOWER PROJECT					
Project: DORJILUNG HYDROPOWER PROJECT (1125 MW) MONGAR, BHUTAN					
Title: DORJILUNG ROAD ADIT 6 CROSS SECTION					
SHEET 23 OF 36					
CONSULTANT:		NAME	SIG.		
		Designed			
		Drawn			
		Checked			
		Approved			
		Issued Date	NOV 2024		
Original Size	Original Scale	DRAWING NO.			REV
A3	AS SHOWN	DHPP-ADIT-6-ROAD-2024-23			NA




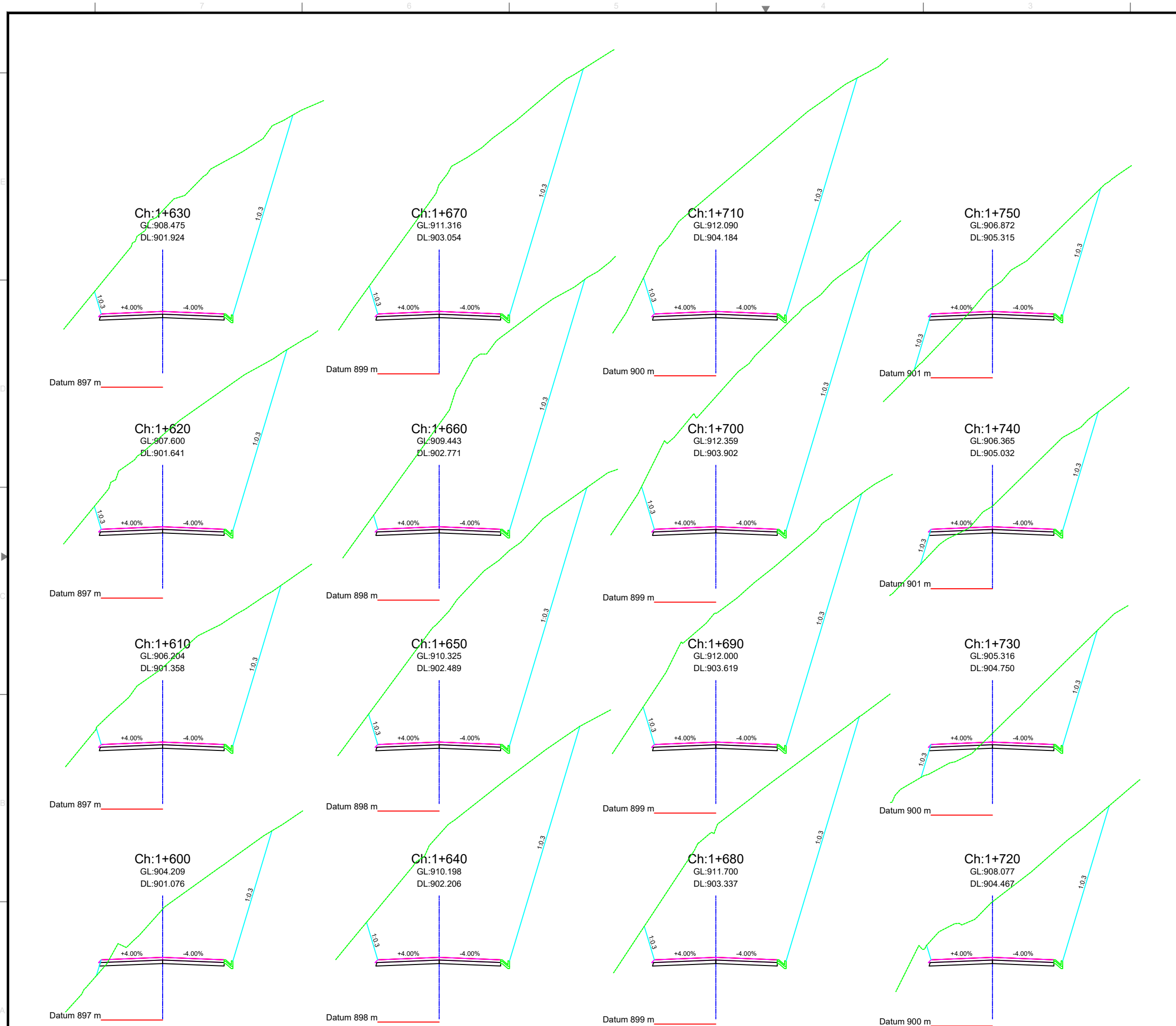
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SCALE 1 : 250

ISSUED FOR CONSTRUCTION

Rev	Modification	Drawn:	Checked:	Recommended:	Approved:
Client: DORJILUNG HYDROPOWER PROJECT					
Project: DORJILUNG HYDROPOWER PROJECT (1125 MW) MONGAR, BHUTAN					
Title: DORJILUNG ROAD ADIT 6 CROSS SECTION SHEET 24 OF 36					
CONSULTANT:		NAME	SIG.		
		Designed			
		Drawn			
		Checked			
		Approved			
		Issued Date	NOV 2024		
Original Size A3	Original Scale AS SHOWN	DRAWING NO. DHPP-ADIT-6-ROAD-2024-24			REV NA



- NOTE:
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SCALE 1 : 250

ISSUED FOR CONSTRUCTION

Rev	Modification	Drawn	Checked	Recommended	Approved
Client: DORJILUNG HYDROPOWER PROJECT					
Project: DORJILUNG HYDROPOWER PROJECT (1125 MW) MONGAR, BHUTAN					
Title: DORJILUNG ROAD ADIT 6 CROSS SECTION SHEET 25 OF 36					
CONSULTANT:		NAME	SIG.		
		Designed			
		Drawn			
		Checked			
		Approved			
		Issued Date	NOV 2024		
Original Size A3	Original Scale AS SHOWN	DRAWING NO. DHPP-ADIT-6-ROAD-2024-25		REV	NA

NOTE:

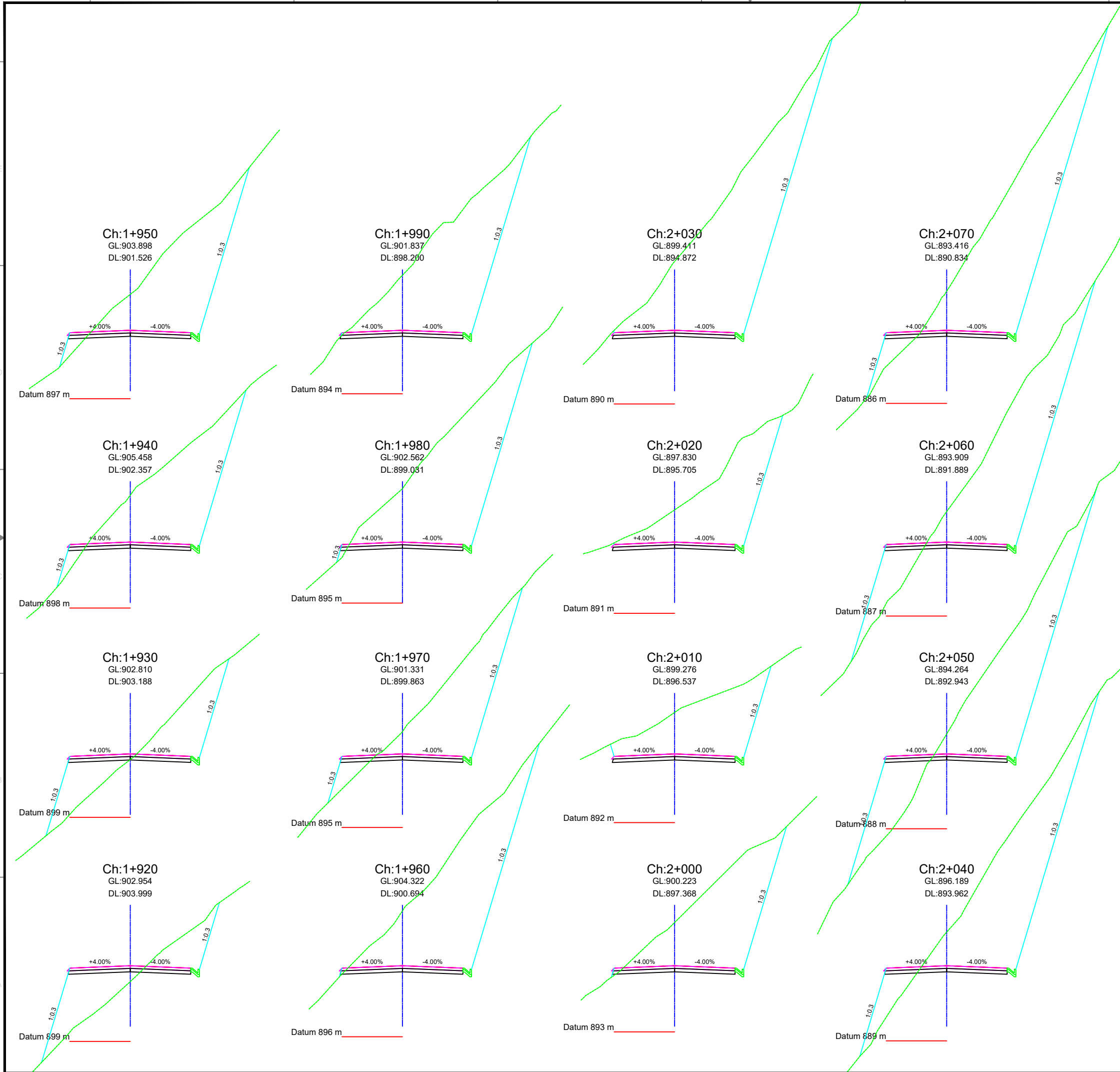
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SCALE 1 : 250

ISSUED FOR CONSTRUCTION

Rev	Modification	Drawn	Checked	Recommended	Approved
Client: DORJILUNG HYDROPOWER PROJECT					
Project: DORJILUNG HYDROPOWER PROJECT (1125 MW) MONGAR, BHUTAN					
Title: DORJILUNG ROAD ADIT 6 CROSS SECTION SHEET 26 OF 36					
CONSULTANT:		NAME	SIG.		
		Designed			
		Drawn			
		Checked			
		Approved			
		Issued Date	NOV 2024		
Original Size A3	Original Scale AS SHOWN	DRAWING NO. DHPP-ADIT-6-ROAD-2024-26		REV	NA

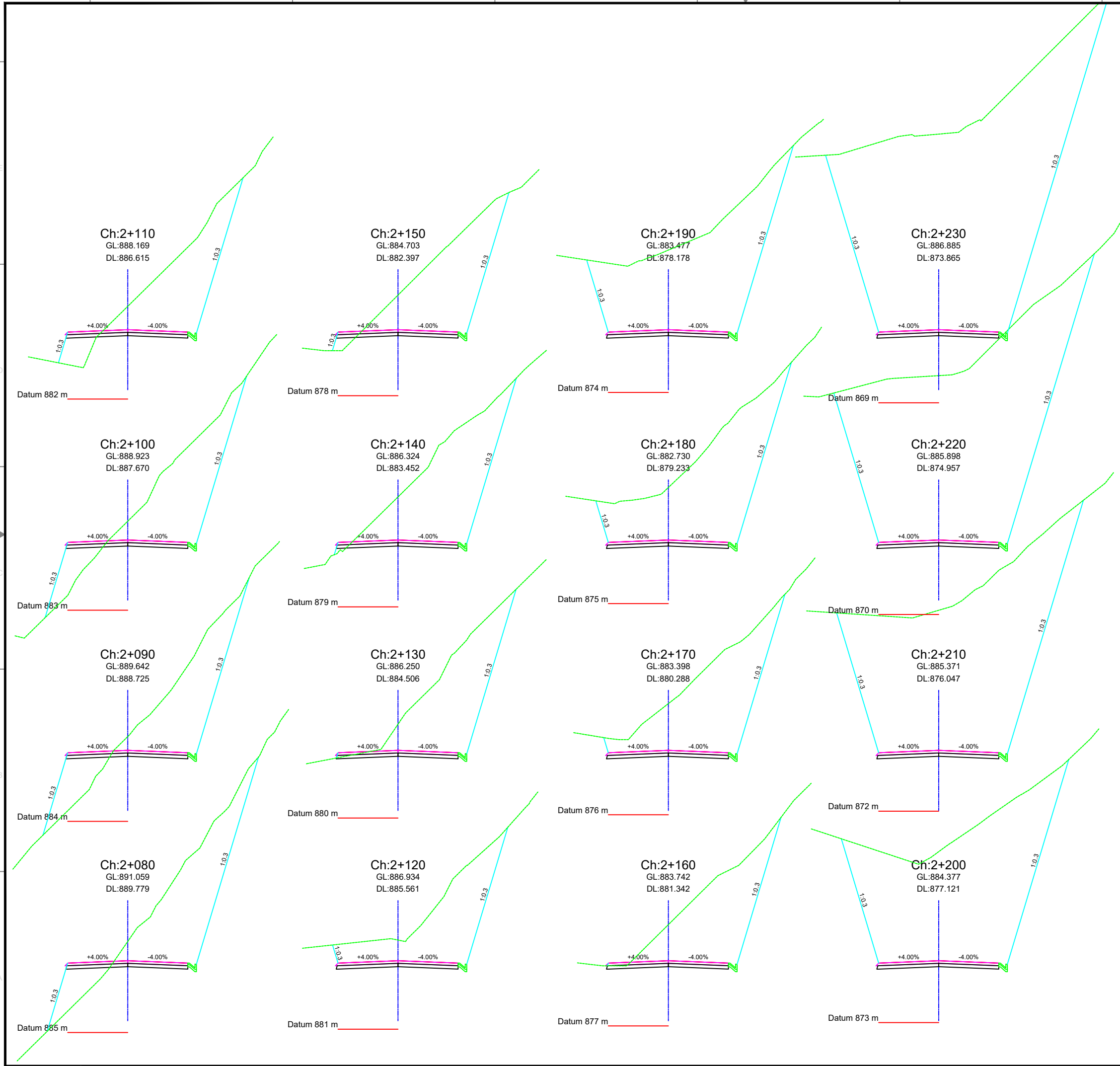


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ISSUED FOR CONSTRUCTION

Rev	Modification	Drawn	Checked	Recommended	Approved
Client: DORJILUNG HYDROPOWER PROJECT					
Project: DORJILUNG HYDROPOWER PROJECT (1125 MW) MONGAR, BHUTAN					
Title: DORJILUNG ROAD ADIT 6 CROSS SECTION					
SHEET 27 OF 36					
CONSULTANT:		NAME	SIG.		
		Designed			
		Drawn			
		Checked			
		Approved			
		Issued Date	NOV 2024		
Original Size	A3	Original Scale	AS SHOWN	DRAWING NO.	DHPP-ADIT-6-ROAD-2024-27
				REV	NA



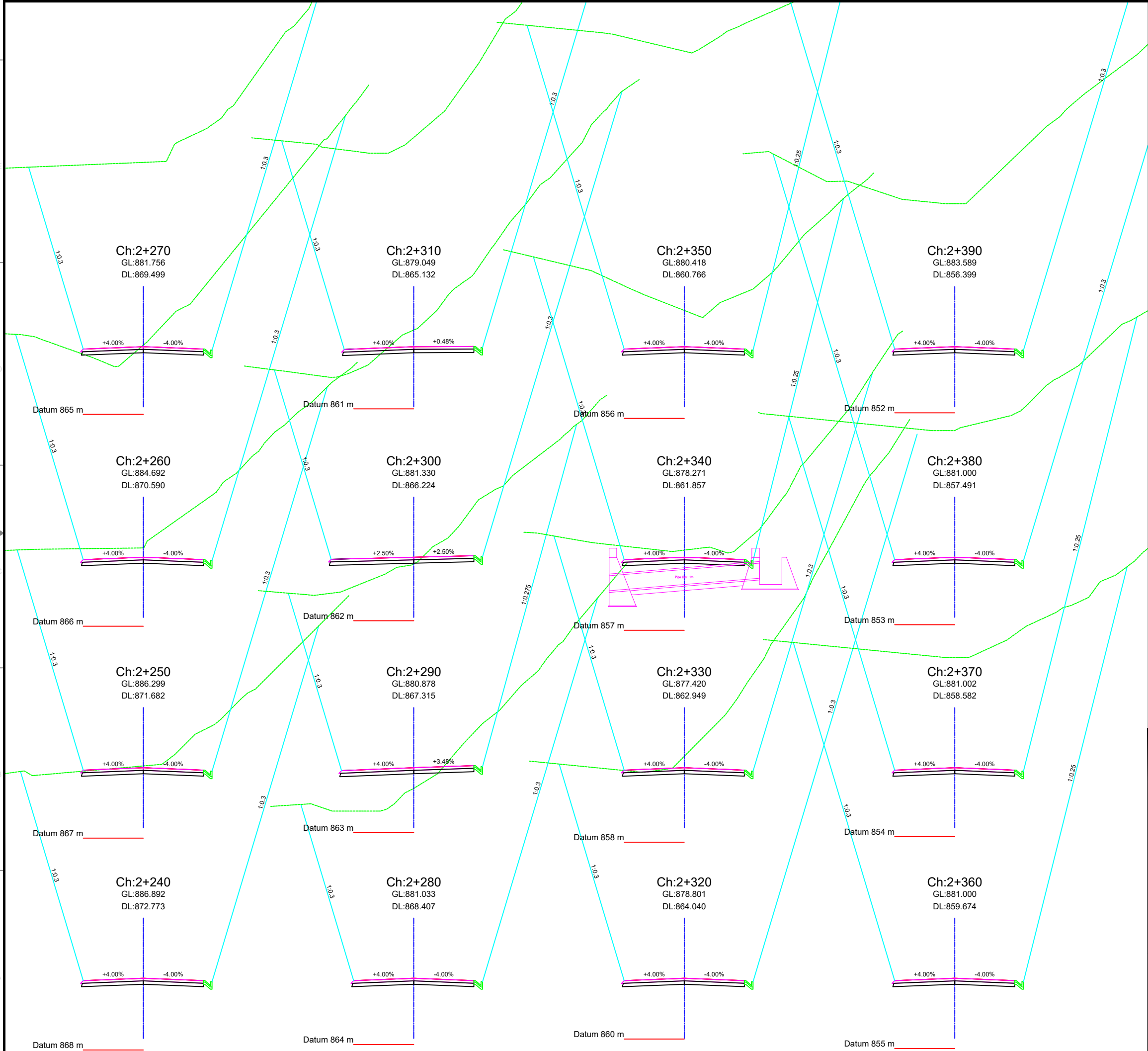
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SCALE 1 : 250

ISSUED FOR CONSTRUCTION

Rev	Modification	Drawn	Checked	Recommended	Approved
Client: DORJILUNG HYDROPOWER PROJECT					
Project: DORJILUNG HYDROPOWER PROJECT (1125 MW) MONGAR, BHUTAN					
Title: DORJILUNG ROAD ADIT 6 CROSS SECTION					
SHEET 28 OF 36					
CONSULTANT:		NAME	SIG.		
		Designed			
		Drawn			
		Checked			
		Approved			
		Issued Date	NOV 2024		
Original Size	Original Scale	DRAWING NO.			REV
A3	AS SHOWN	DHPP-ADIT-6-ROAD-2024-28			NA



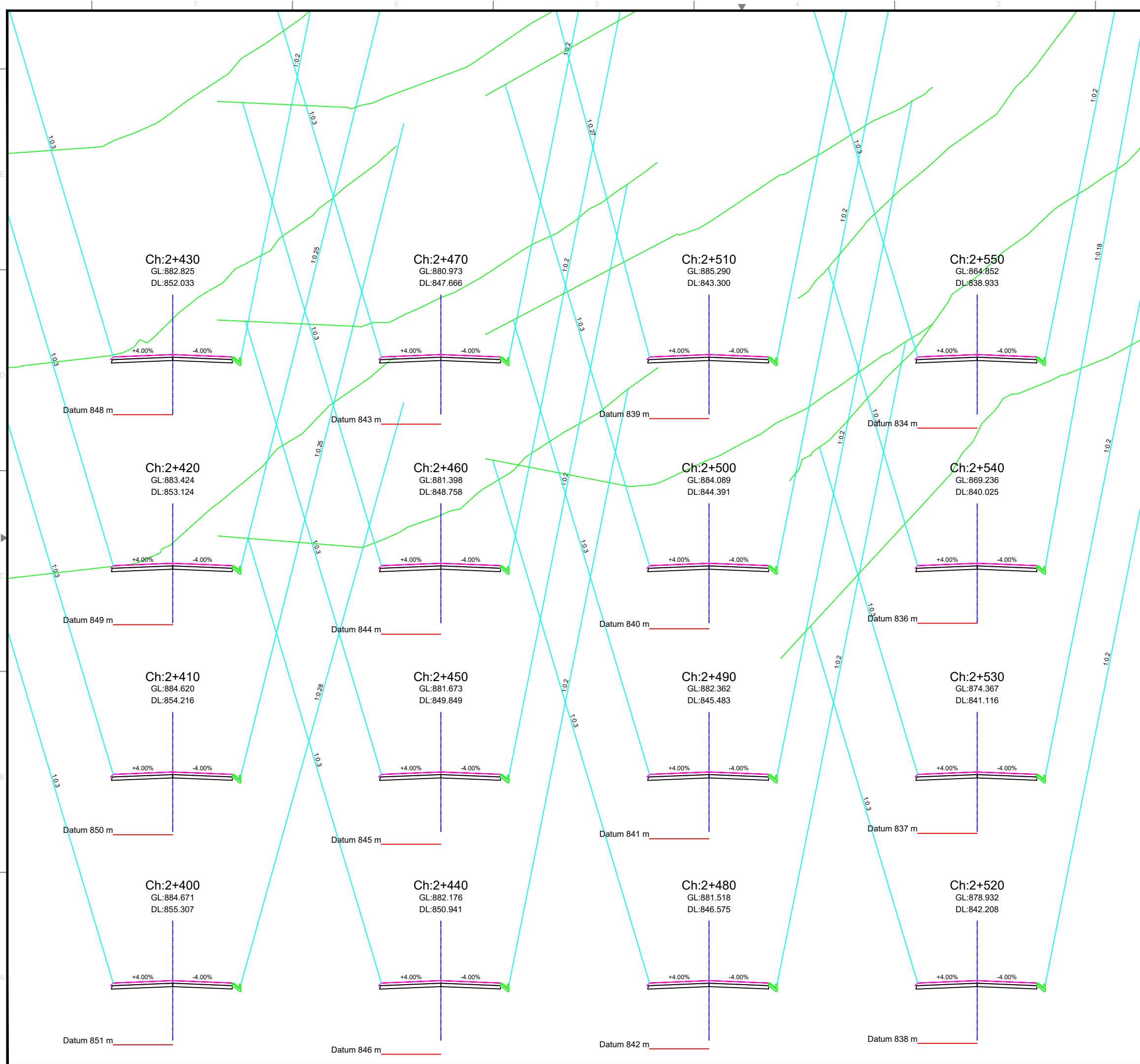
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SCALE 1 : 250

ISSUED FOR CONSTRUCTION

Rev	Modification	Drawn	Checked	Recommended	Approved
Client: DORJILUNG HYDROPOWER PROJECT					
Project: DORJILUNG HYDROPOWER PROJECT (1125 MW) MONGAR, BHUTAN					
Title: DORJILUNG ROAD ADIT 6 CROSS SECTION SHEET 29 OF 36					
CONSULTANT:		NAME	SIG.		
		Designed			
		Drawn			
		Checked			
		Approved			
		Issued Date	NOV 2024		
Original Size A3	Original Scale AS SHOWN	DRAWING NO. DHPP-ADIT-6-ROAD-2024-29			REV NA



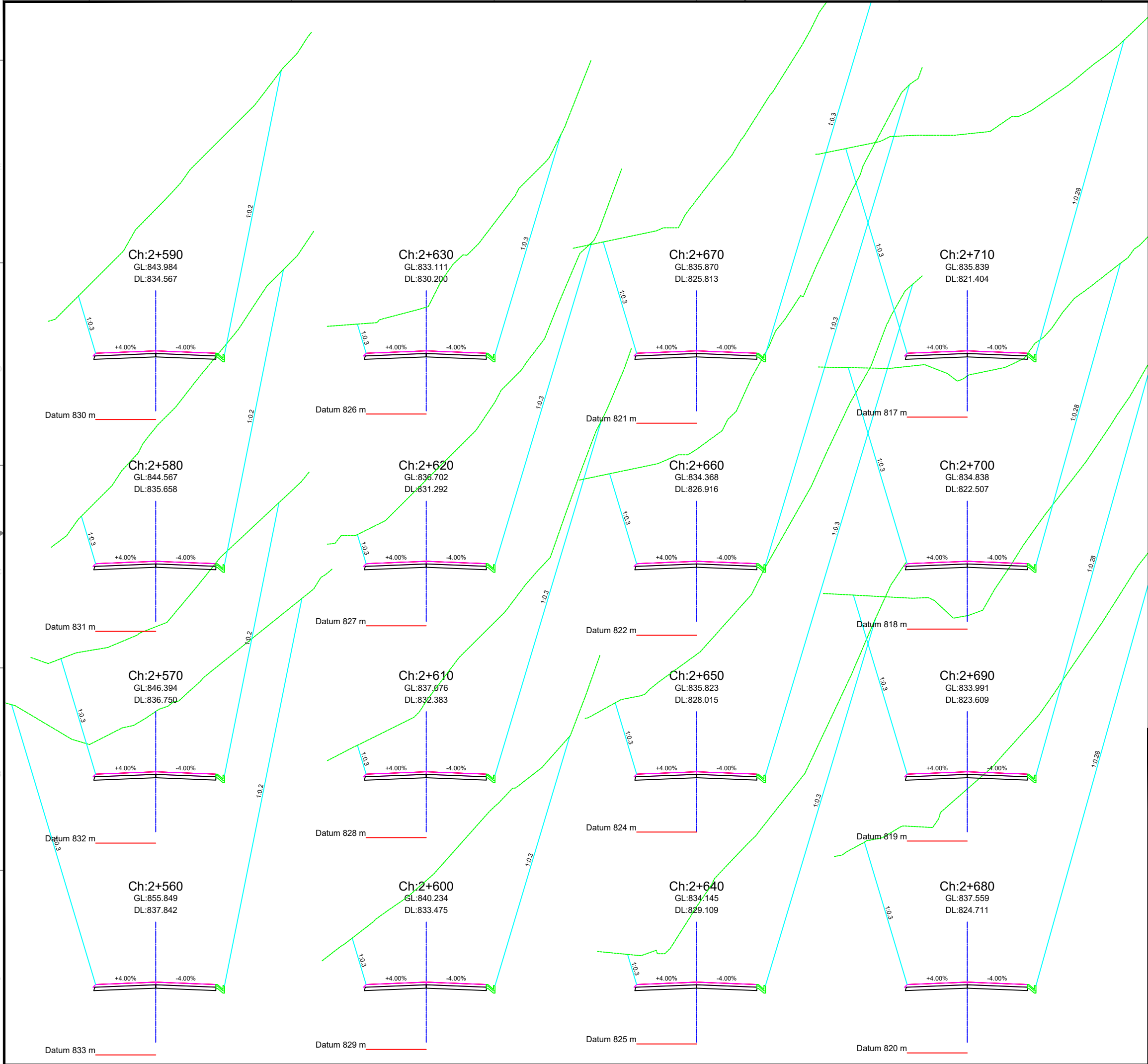
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SCALE 1 : 250

ISSUED FOR CONSTRUCTION

Rev	Modification	Drawn	Checked	Recommended	Approved
Client: DORJILUNG HYDROPOWER PROJECT					
Project: DORJILUNG HYDROPOWER PROJECT (1125 MW) MONGAR, BHUTAN					
Title: DORJILUNG ROAD ADIT 6 CROSS SECTION					
SHEET 30 OF 36					
CONSULTANT:		NAME	SIG.		
		Designed			
		Drawn			
		Checked			
		Approved			
		Issued Date	NOV 2024		
Original Size	Original Scale	DRAWING NO.			REV
A3	AS SHOWN	DHPP-ADIT-6-ROAD-2024-30			NA



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SCALE 1 : 250


ISSUED FOR CONSTRUCTION

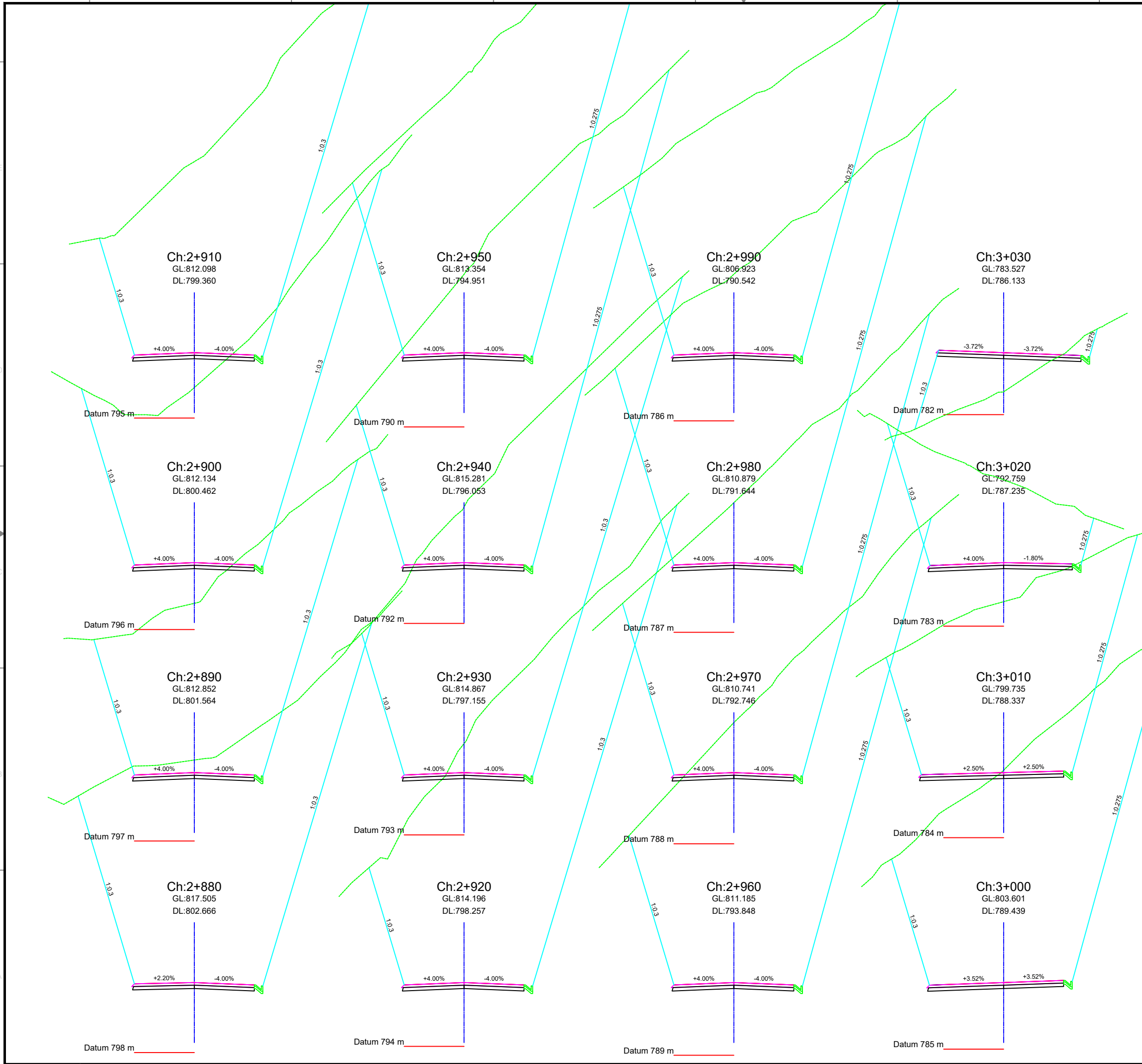
Rev	Modification	Drawn	Checked	Recommended	Approved
Client: DORJILUNG HYDROPOWER PROJECT					
Project: DORJILUNG HYDROPOWER PROJECT (1125 MW) MONGAR, BHUTAN					
Title: DORJILUNG ROAD ADIT 6 CROSS SECTION					
SHEET 31 OF 36					
CONSULTANT:		NAME	SIG.		
		Designed			
		Drawn			
		Checked			
		Approved			
		Issued Date	NOV 2024		
Original Size	Original Scale	DRAWING NO.			REV
A3	AS SHOWN	DHPP-ADIT-6-ROAD-2024-31			NA

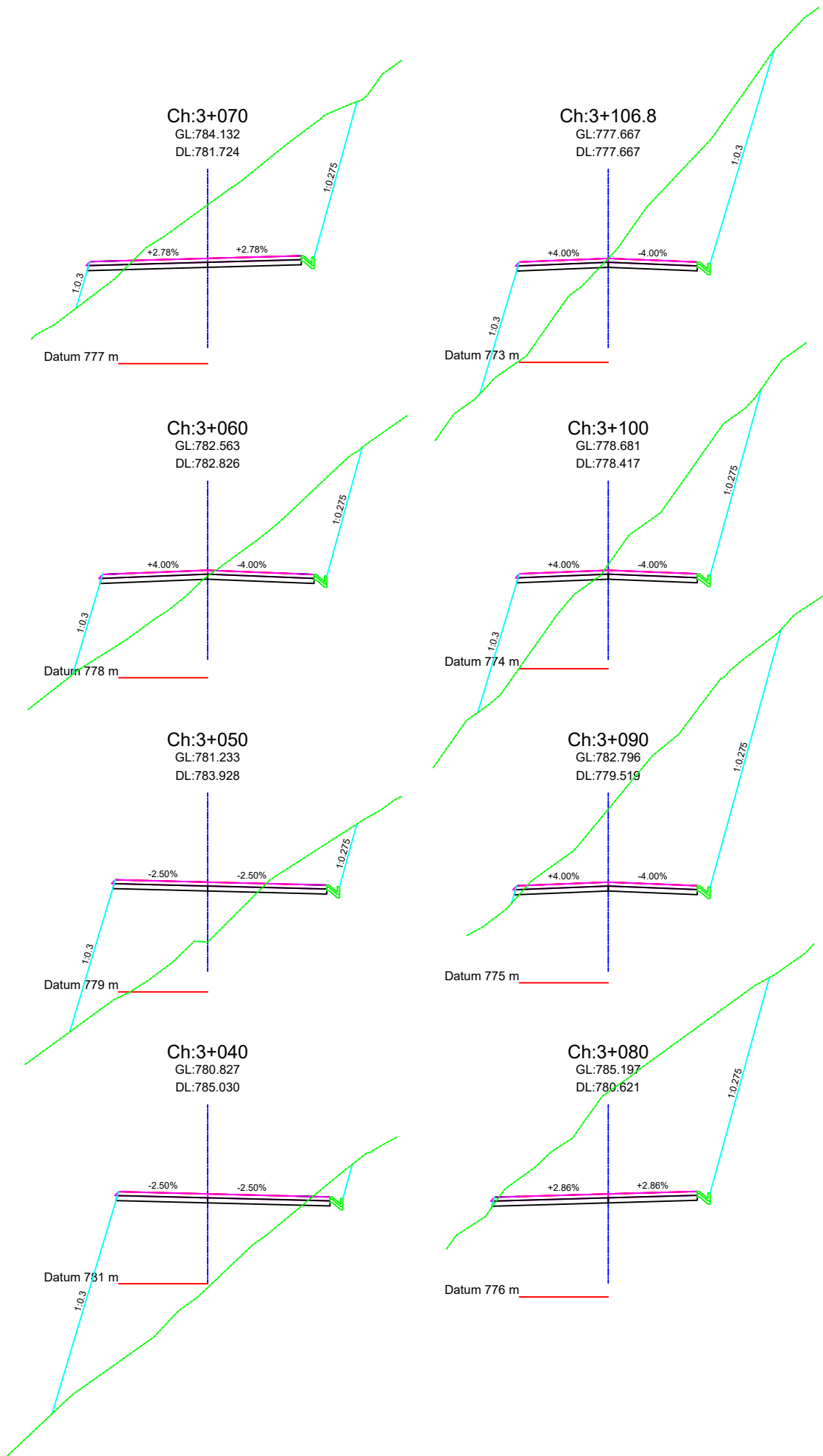
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ISSUED FOR CONSTRUCTION

Rev	Modification	Drawn	Checked	Recommended	Approved
Client: DORJILUNG HYDROPOWER PROJECT					
Project: DORJILUNG HYDROPOWER PROJECT (1125 MW) MONGAR, BHUTAN					
Title: DORJILUNG ROAD ADIT 6 CROSS SECTION					
SHEET 33 OF 36					
CONSULTANT:		NAME	SIG.		
		Designed			
		Drawn			
		Checked			
		Approved			
		Issued Date	NOV 2024		
Original Size A3	Original Scale AS SHOWN	DRAWING NO. DHPP-ADIT-6-ROAD-2024-33		REV	NA





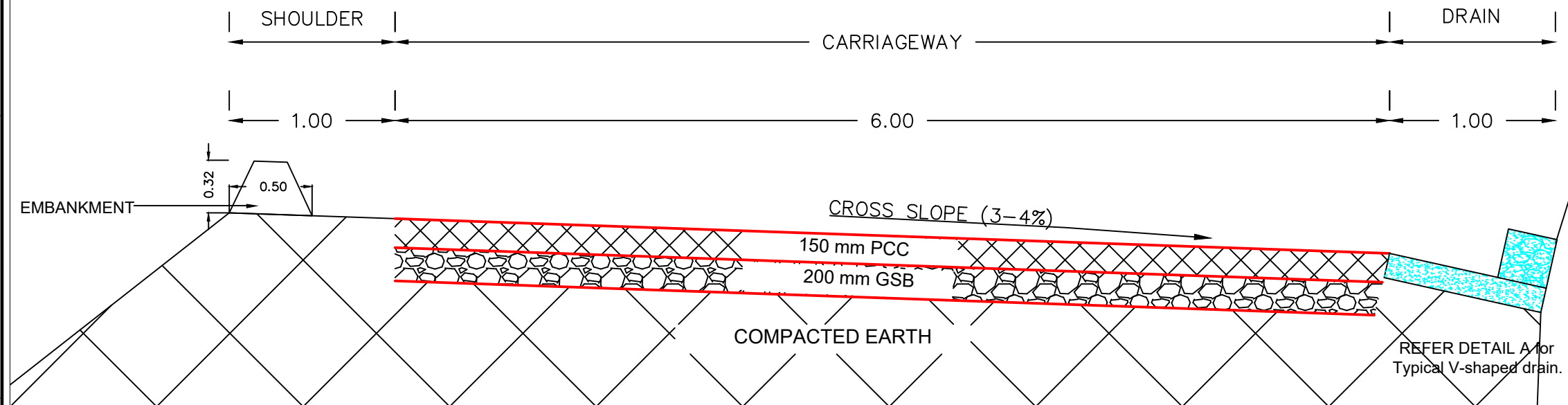
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SCALE 1 : 250

ISSUED FOR CONSTRUCTION

Rev	Modification	Drawn:	Checked:	Recommended:	Approved:
Client: DORJILUNG HYDROPOWER PROJECT					
Project: DORJILUNG HYDROPOWER PROJECT (1125 MW) MONGAR, BHUTAN					
Title: DORJILUNG ROAD ADIT 6 CROSS SECTION SHEET 34 OF 36					
CONSULTANT:		NAME	SIG.		
		Designed			
		Drawn			
		Checked			
		Approved			
		Issued Date	NOV 2024		
Original Size A3	Original Scale AS SHOWN	DRAWING NO. DHPP-ADIT-6-ROAD-2024-34		REV	NA



Typical One-way Camber Cross Slope in Super Elevated Sections for Double Lane.

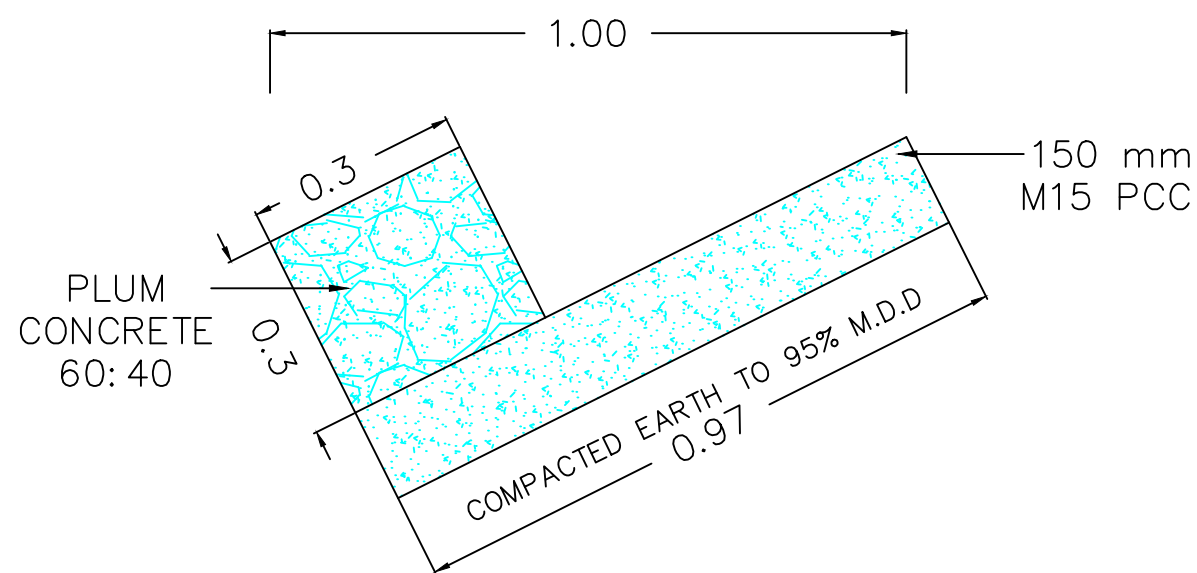
NOTE:

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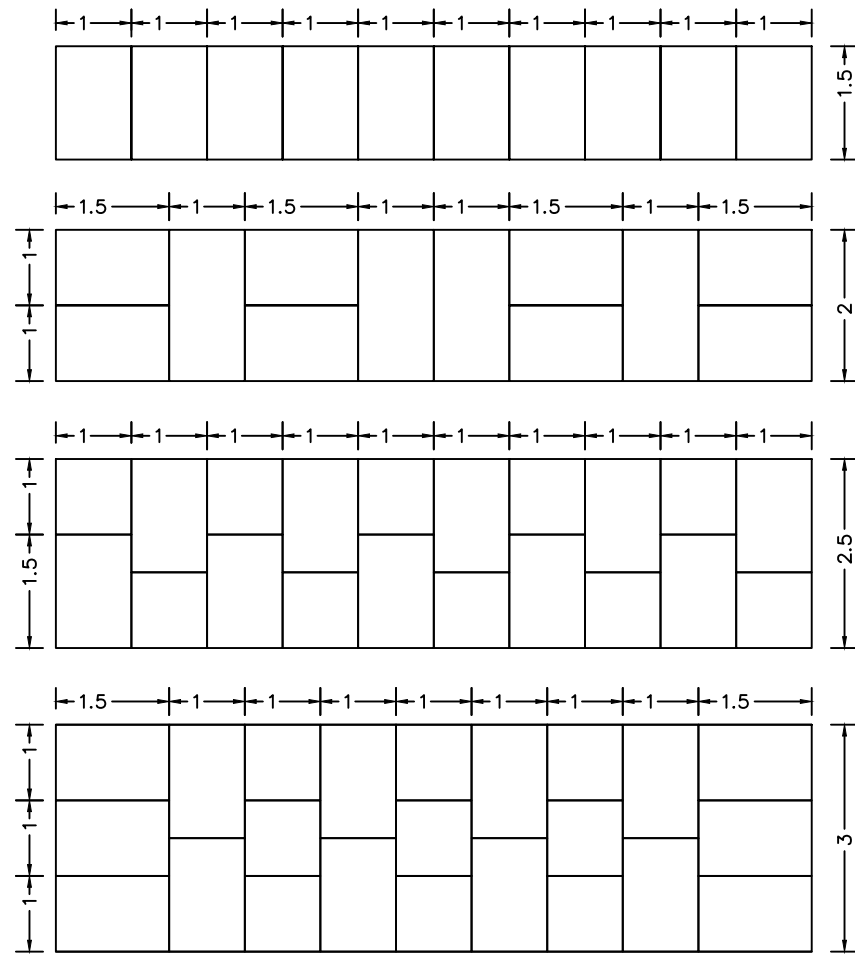
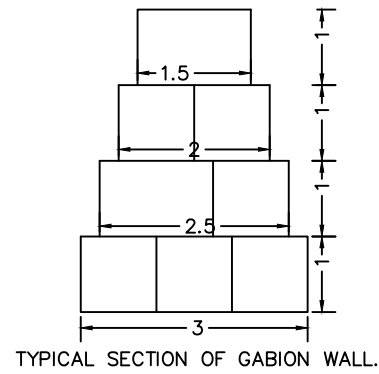
SCALE 1 : 250

ISSUED FOR CONSTRUCTION



DETAIL A: Typical V-shaped drain

Rev	Modification	Drawn	Checked	Recommended	Approved
Client: DORJILUNG HYDROPOWER PROJECT					
Project: DORJILUNG HYDROPOWER PROJECT (1125 MW) MONGAR, BHUTAN					
Title: DORJILUNG ROAD ADIT 6 TYPICAL ROAD AND DRAIN CROSS SECTION					
SHEET 35 OF 36					
CONSULTANT:		NAME	SIG.		
		Designed			
		Drawn			
		Checked			
		Approved			
		Issued Date	NOV 2024		
Original Size A3	Original Scale AS SHOWN	DRAWING NO. DHPP-ADIT-6-ROAD-2024-33			REV NA



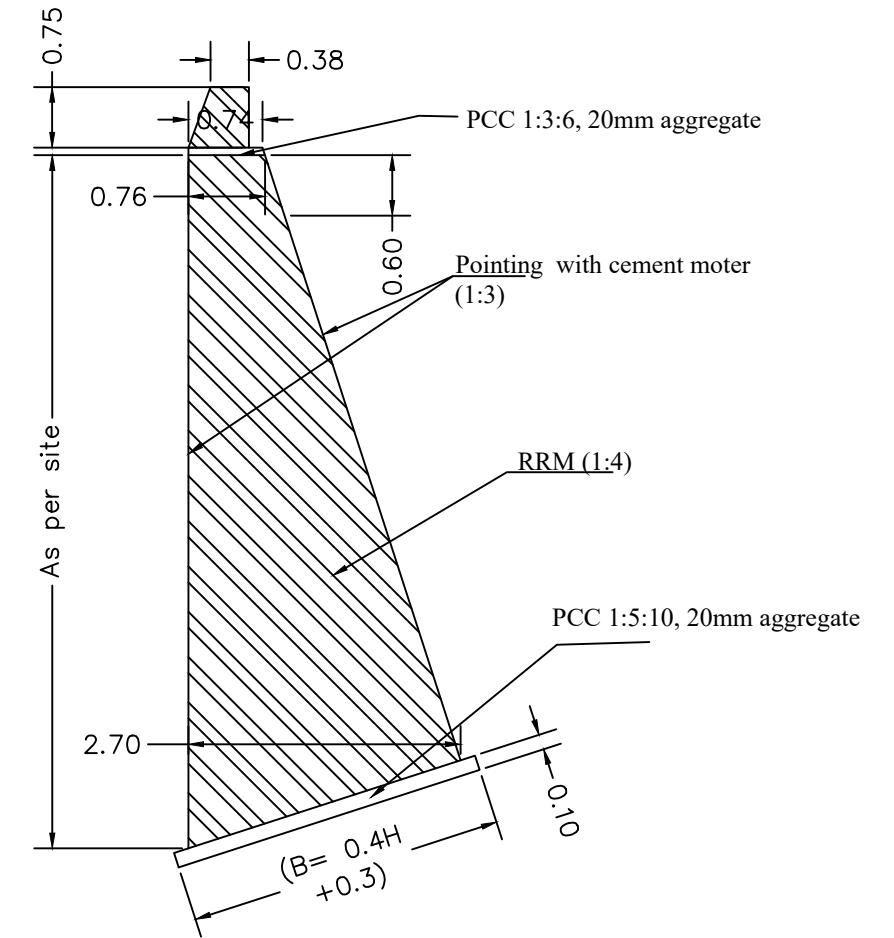
GABION WALL PLAN.

FOURTH LAYER:
1.5x1x1=10

THIRD LAYER:
1.5x1x1=8
2x1x1=4

SECOND LAYER:
1x1x1=10
1.5x1x1=10

FIRST LAYER:
1x1x1=9
1.5x1x1=14




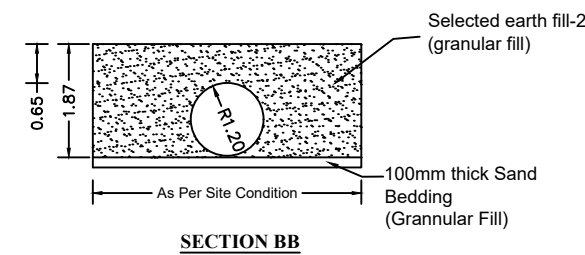
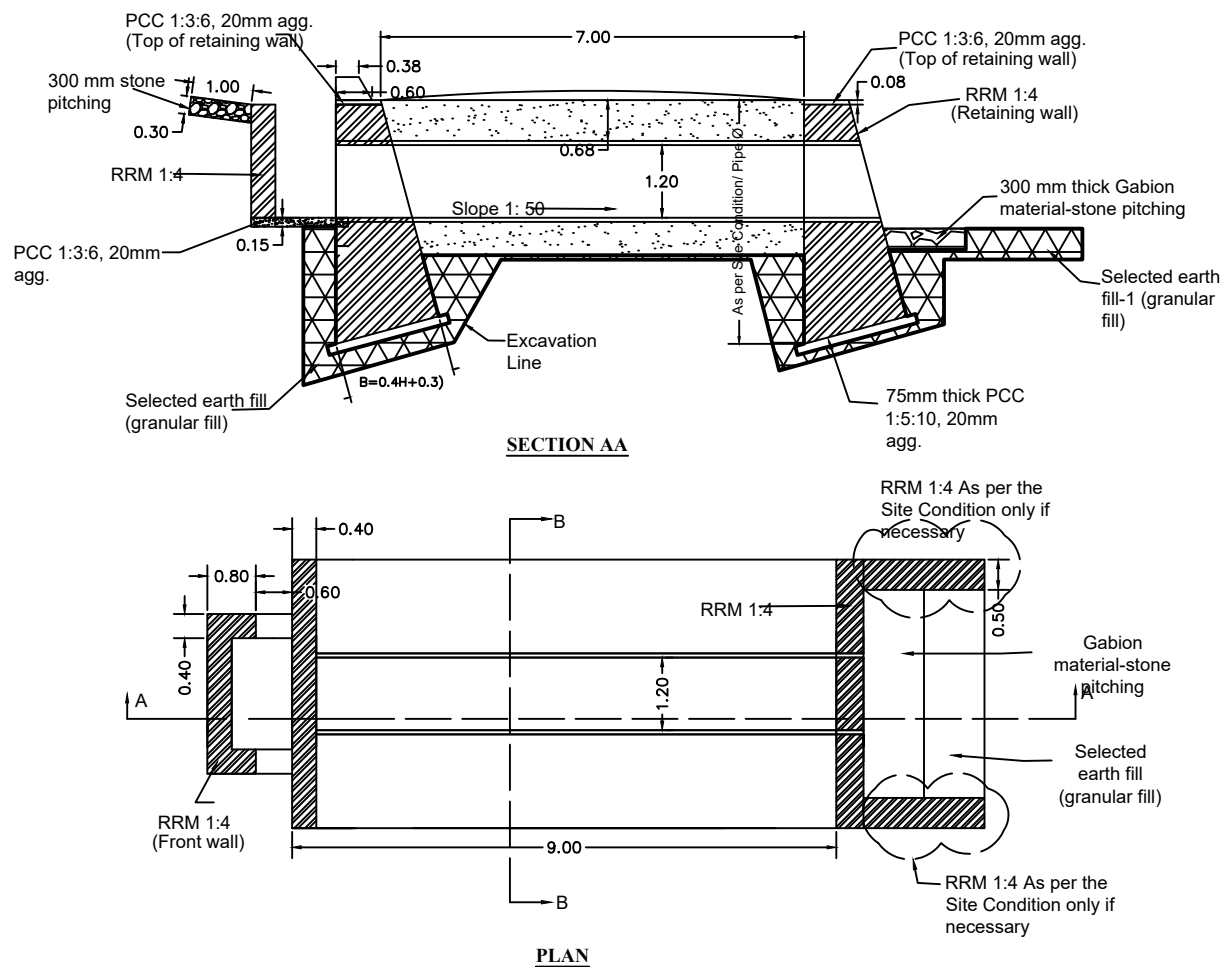
TYPICAL SECTION OF RETAINING WALL

NOTE:

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ISSUED FOR CONSTRUCTION

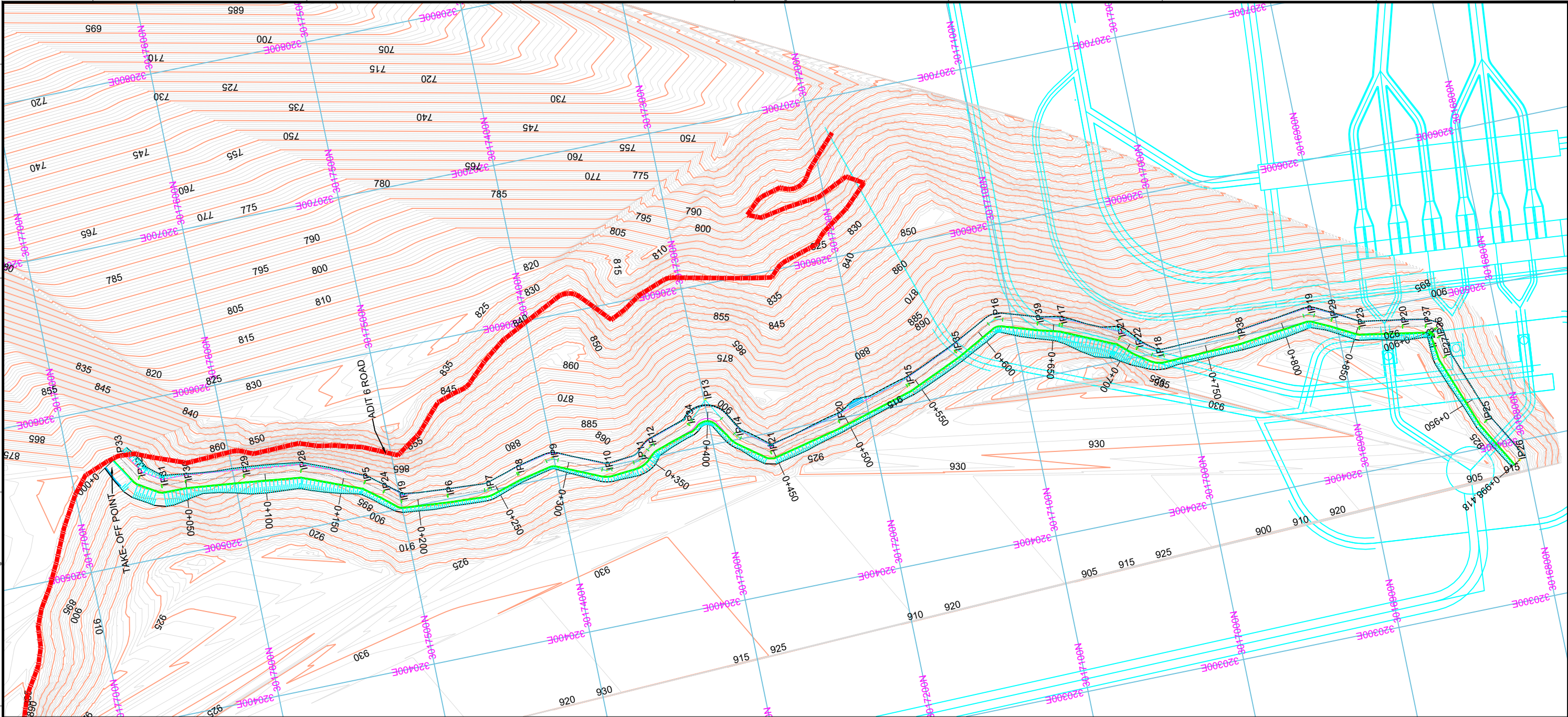
Rev	Modification	Drawn	Checked	Recommended	Approved
Client: <div>DORJILUNG HYDROPOWER PROJECT</div>					
Project: <div>DORJILUNG HYDROPOWER PROJECT</div> <div>(1125 MW)</div> <div>MONGAR, BHUTAN</div>					
Title: <div>DORJILUNG ROAD ADIT 6</div> <div>TYPICAL HUME PIPE, RETAINING AND GABION WALL</div> <div>SECTION</div> <div>SHEET 36 OF 36</div>					
<div>CONSULTANT:</div> <div><div>འབྲུག་རྒྱུ་རྒྱུ་ལྟ་སྒྲུ་འབྲུག་གི་ལྟ་སྒྲུ་ Druk Green Consultancy</div></div>		NAME	SIG.		
		Designed			
		Drawn			
		Checked			
		Approved			
		Issued Date		NOV 2024	
Original Size A3	Original Scale AS SHOWN	DRAWING NO. DHPP-ADIT-6-ROAD-2024-36			REV NA



SECTION BB



1020.0m Access Road to Surge Shaft

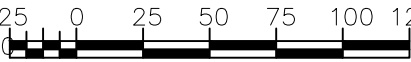


NOTE:


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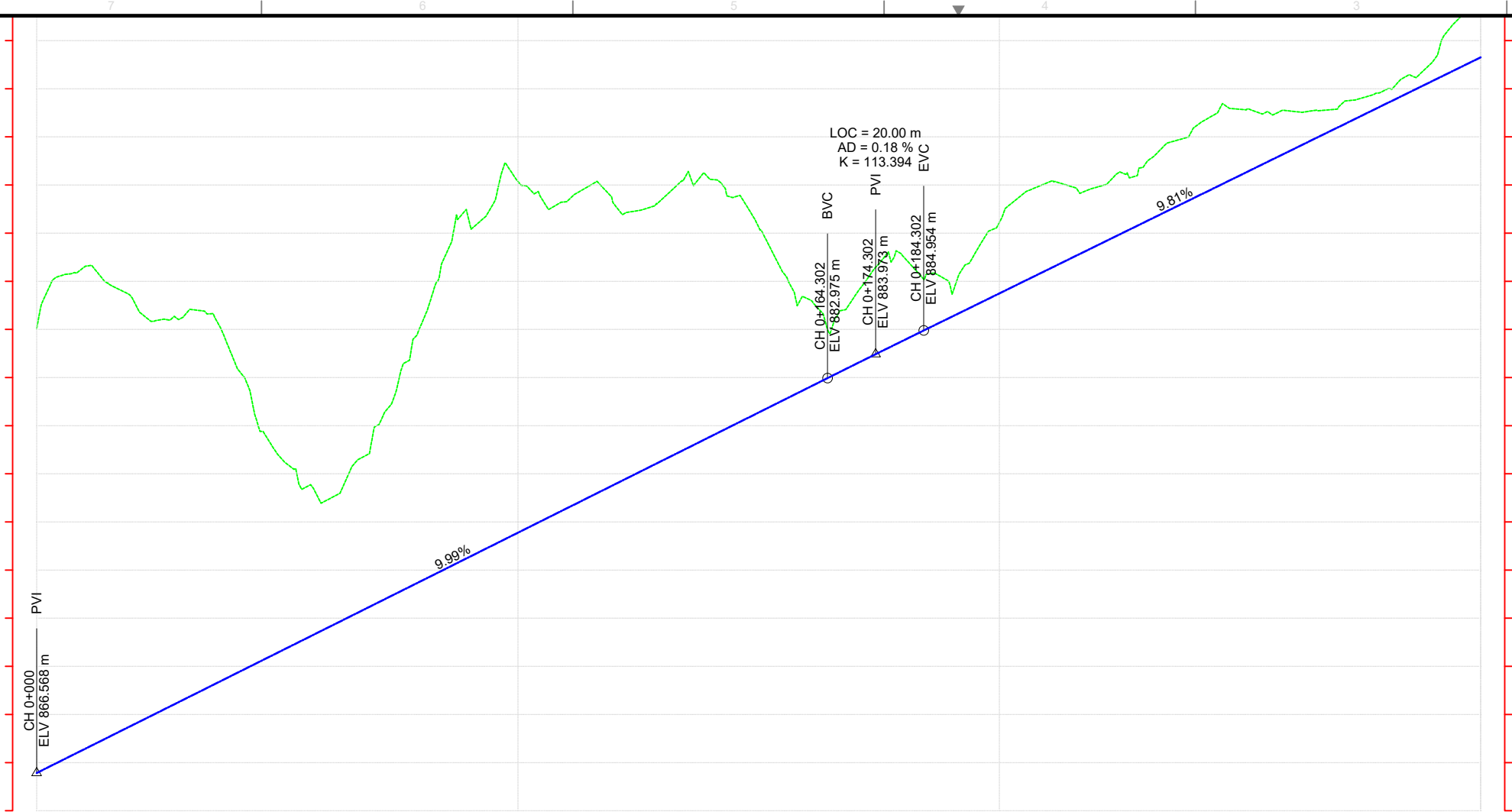


SCALE 1 : 2500



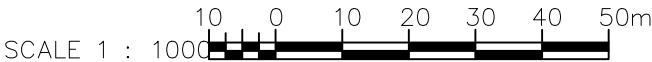
ISSUED FOR TENDERING

Rev	Modification	Drawn	Checked	Recommended	Approved
Client: DORJILUNG HYDROPOWER PROJECT					
Project: DORJILUNG HYDROPOWER PROJECT (1125 MW) MONGAR, BHUTAN					
Title: DORJILUNG ROAD TO SURGE SHAFT GENERAL PLAN SHEET 1 OF 16					
CONSULTANT:		NAME	SIG.		
		Designed			
		Drawn			
		Checked			
		Approved			
		Issued Date	NOV 2024		
Original Size A3	Original Scale AS SHOWN	DRAWING NO. DHPP-ROAD-SS-2024-01			REV NA



DESIGN LEVEL(m)	+866.568		+867.566		+868.565		+869.563		+884.200 +870.562		+871.561		+872.559		+873.558		+874.556		+875.555		+876.554		+877.552		+878.551		+879.549		+880.548		+881.547		+882.545		+883.542		+884.532		+885.513		+886.494		+887.475		+888.456		+889.437		+890.418		+891.399		+892.380		+893.361		+894.342		+895.323		+896.304	
EXISTING LEVEL(m)	+865.039		+887.610		+886.245		+885.462		+884.200		+879.825		+877.875		+880.798		+885.253		+889.367		+891.141		+890.305		+890.196		+890.423		+891.236		+889.254		+886.291		+886.391		+888.041		+886.624		+889.439		+891.096		+890.897		+891.774		+893.250		+894.146		+894.085		+894.148		+894.927		+896.108		+898.672	
CHAINAGE(Km)	0+000		0+010		0+020		0+030		0+040		0+050		0+060		0+070		0+080		0+090		0+100		0+110		0+120		0+130		0+140		0+150		0+160		0+170		0+180		0+190		0+200		0+210		0+220		0+230		0+240		0+250		0+260		0+270		0+280		0+290		0+300	
HORIZONTAL SCHEMATIC			L=19.217		L=15.241		L=15.311		L=36.821				L=36.212				L=40.750				L=13.400		L=12.644				L=29.188		L=23.392		L=18.825		L=19.166		L=7.549		L=6.912																									
SUPER ELEVATION SCHEMATIC	0+000		SE:4%																												0+300																															


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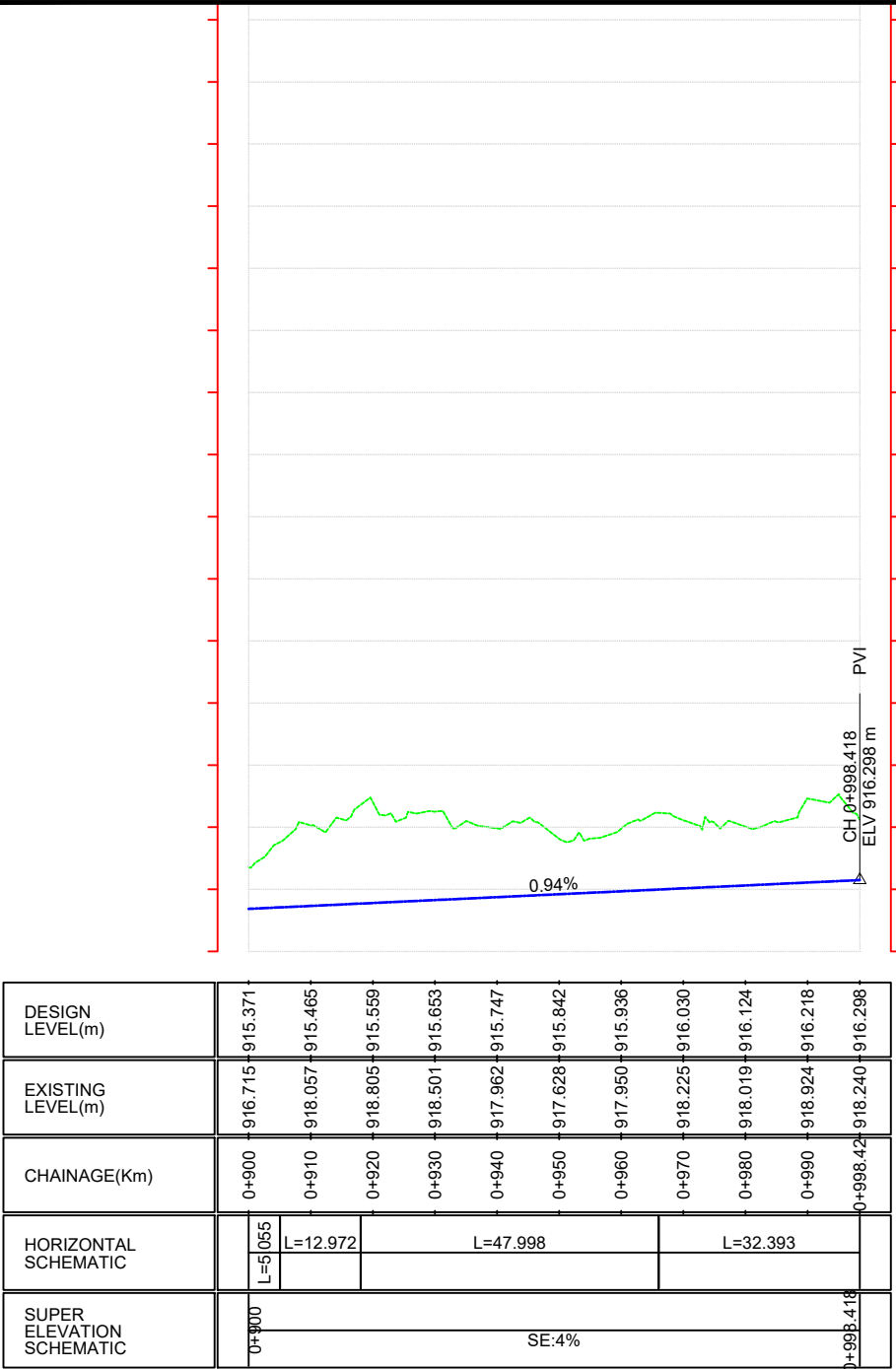


CHAINAGE : 0+000 - 0+300

IP No.	CO-ORDINATES(m)	
	EASTING	NORTHING
IP33	320568.670	3017668.728
IP32	320552.387	3017658.521
IP31	320544.368	3017645.560
IP30	320544.206	3017630.250
IP29	320540.318	3017593.635
IP28	320536.105	3017557.669
5	320520.957	3017519.839
IP24	320512.776	3017509.227
IP19	320504.594	3017499.587
6	320502.164	3017470.344
7	320500.706	3017444.746
8	320506.781	3017424.252
9	320511.723	3017401.246

ISSUED FOR TENDERING

Rev	Modification	Drawn	Checked	Recommended	Approved
Client: DORJILUNG HYDROPOWER PROJECT					
Project: DORJILUNG HYDROPOWER PROJECT (1125 MW) MONGAR, BHUTAN					
Title: DORJILUNG ROAD TO SURGE SHAFT PROFILE (0 TO 300 M) SHEET 2 OF 16					
CONSULTANT:		NAME	SIG.		
		Designed			
		Drawn			
		Checked			
		Approved			
		Issued Date	NOV 2024		
Original Size A3	Original Scale AS SHOWN	DRAWING NO. DHPP-ROAD-SS-2024-02			REV NA




DESIGN LEVEL(m)	0+900		0+915.371	0+915.465	0+915.559	0+915.653	0+915.747	0+915.842	0+915.936	0+916.030	0+916.124	0+916.218	0+916.298
EXISTING LEVEL(m)	0+910		0+916.715	0+918.057	0+918.805	0+918.501	0+917.962	0+917.628	0+917.950	0+918.225	0+918.019	0+918.924	0+918.240
CHAINAGE(Km)	0+900		0+910	0+920	0+930	0+940	0+950	0+960	0+970	0+980	0+990	0+998.424	
HORIZONTAL SCHEMATIC	L=5.065	L=12.972	L=47.998						L=32.393				
SUPER ELEVATION SCHEMATIC	0+900	SE:4%											0+998.418

CHAINAGE : 0+600 - 0+900

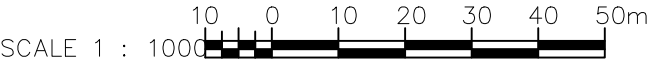
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	EASTING	NORTHING
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IP39	320533.473	3017084.554
17	320529.665	3017070.296
IP21	320514.031	3017035.788
IP22	320505.607	3017026.229
18	320497.506	3017014.564
IP38	320499.288	3016961.911
19	320504.847	3016915.925
IP29	320498.397	3016902.533
IP23	320489.810	3016886.494
20	320485.193	3016859.600
IP37	320482.641	3016845.262
IP28	320479.847	3016839.551

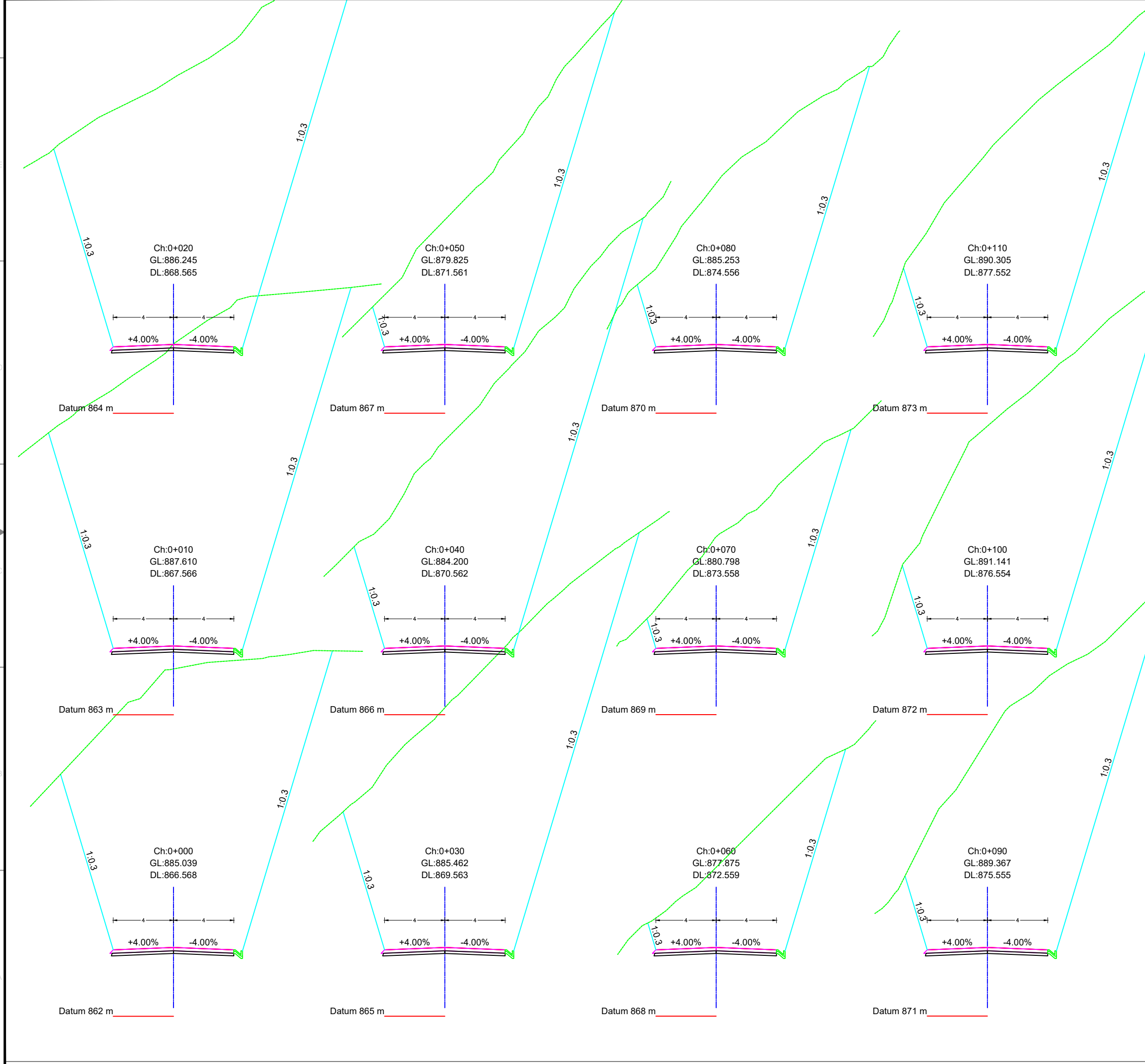
ISSUED FOR TENDERING

Rev	Modification	Drawn:	Checked:	Recommended:	Approved:
Client: <div>DORJILUNG HYDROPOWER PROJECT</div> <div>(1125 MW)</div> <div>MONGAR, BHUTAN</div>					
Title: <div>DORJILUNG ROAD TO SURGE SHAFT</div> <div>PROFILE (900 TO 1200M)</div>					
SHEET 5 OF 16					
<div>CONSULTANT:</div> <div><div><div>འབྲུག་སྐོར་ལྷན་ཁྲིམས་ལྟུང་།</div><div>Druk Green Consultancy</div></div></div>		NAME	SIG.		
		Designed			
		Drawn			
		Checked			
		Approved			
		Issued Date			
Original Size A3	Original Scale AS SHOWN	DRAWING NO. DHPP-ROAD-SS-2024-05		REV NA	

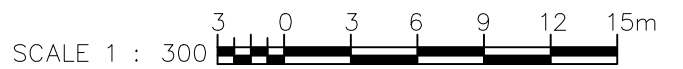
NOTE:

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ISSUED FOR TENDERING

Rev	Modification	Drawn:	Checked:	Recommended:	Approved:
Client: DORJILUNG HYDROPOWER PROJECT					
Project: DORJILUNG HYDROPOWER PROJECT (1125 MW) MONGAR, BHUTAN					
Title: DORJILUNG ROAD TO SURGE SHAFT CROSS SECTION					
SHEET 6 OF 16					
CONSULTANT:		NAME	SIG.		
		Designed			
		Drawn			
		Checked			
		Approved			
		Issued Date	NOV 2024		
Original Size	Original Scale	DRAWING NO.			REV
A3	AS SHOWN	DHPP-ROAD-SS-2024-06			NA

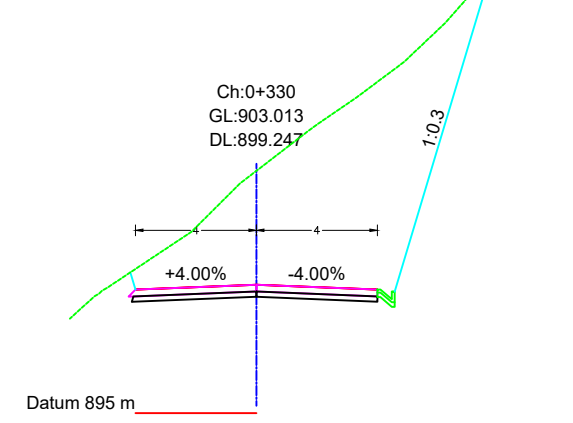
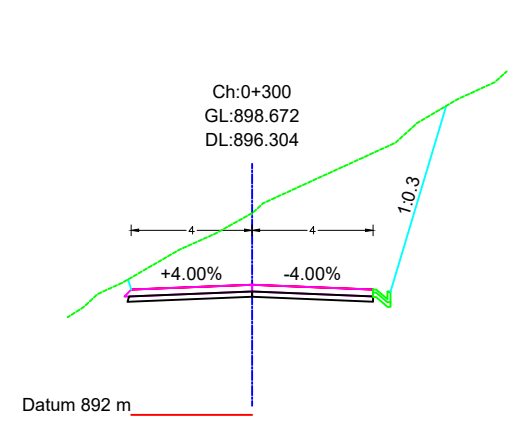
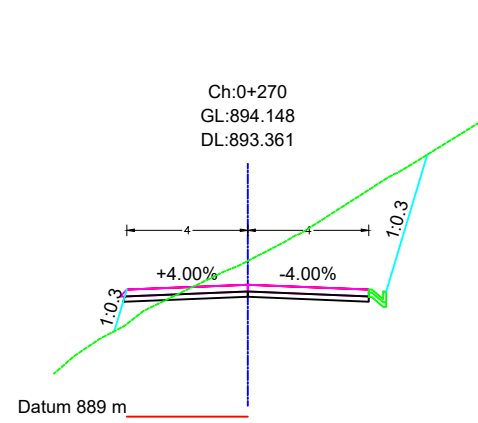
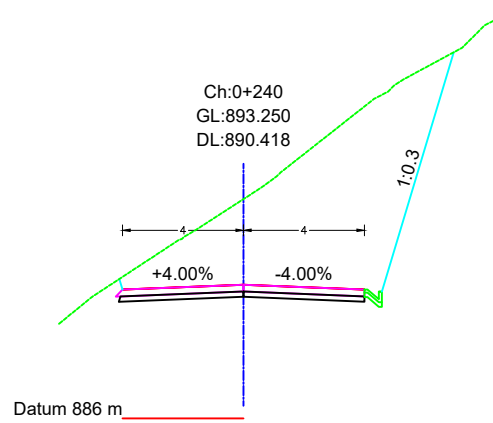
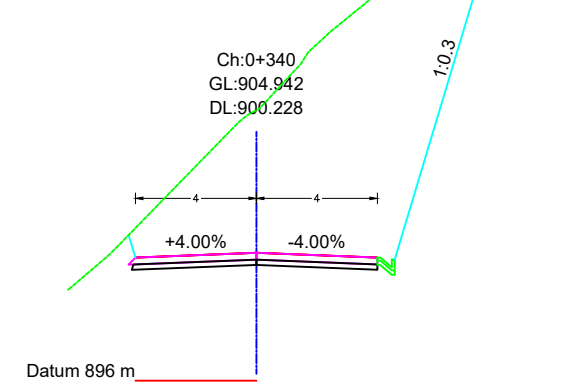
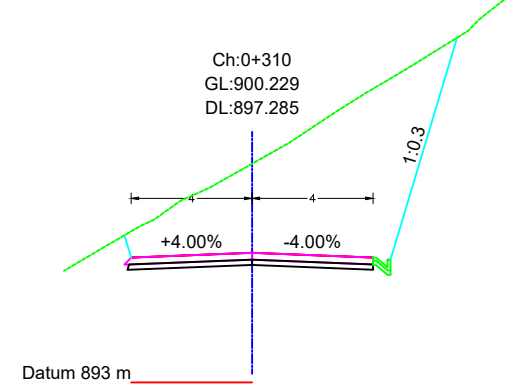
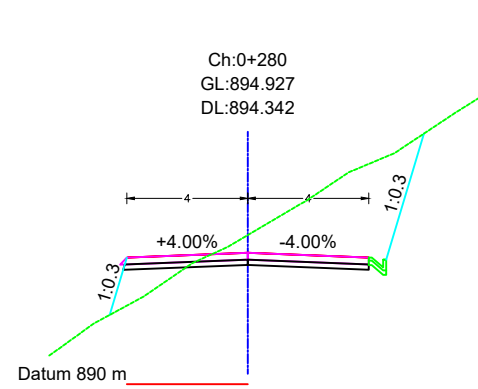
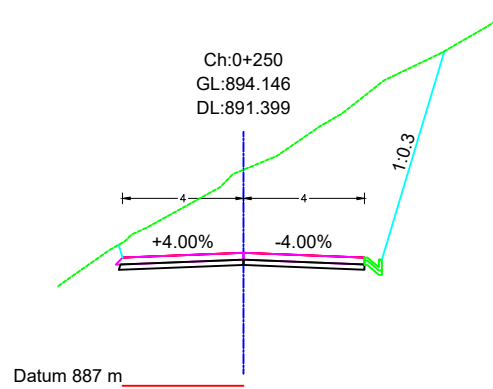
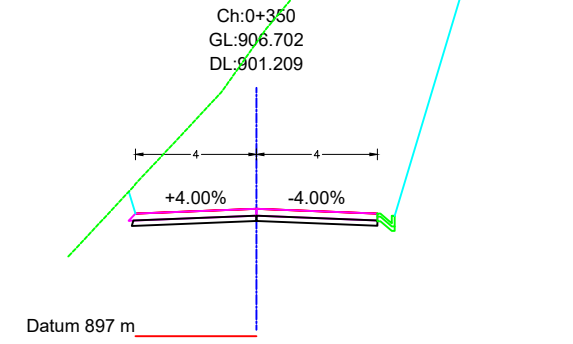
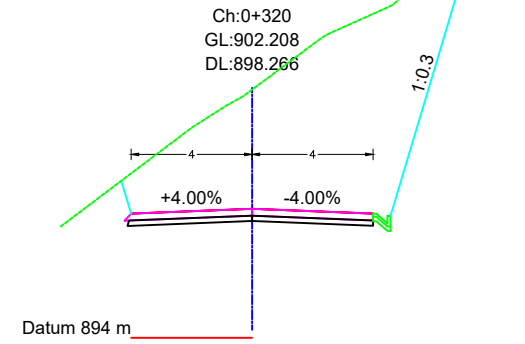
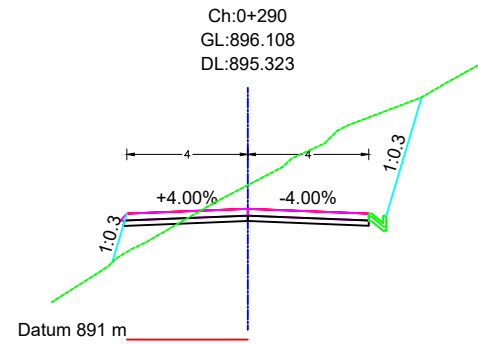
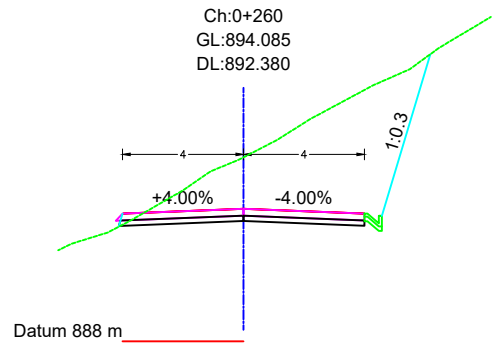
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SCALE 1 : 250

ISSUED FOR TENDERING


Rev	Modification	Drawn:	Checked:	Recommended:	Approved:
Client: DORJILUNG HYDROPOWER PROJECT					
Project: DORJILUNG HYDROPOWER PROJECT (1125 MW) MONGAR, BHUTAN					
Title: DORJILUNG ROAD TO SURGE SHAFT CROSS SECTION					
SHEET 7 OF 16					
CONSULTANT:		NAME	SIG.		
		Designed			
		Drawn			
		Checked			
		Approved			
		Issued Date	NOV 2024		
Original Size A3	Original Scale AS SHOWN	DRAWING NO. DHPP-ROAD-SS-2024-07			REV NA



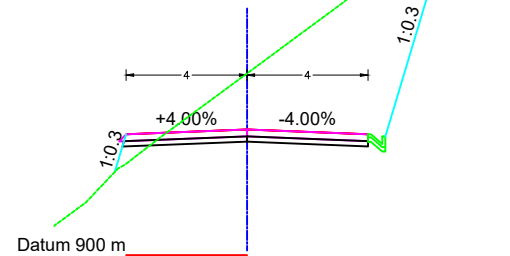
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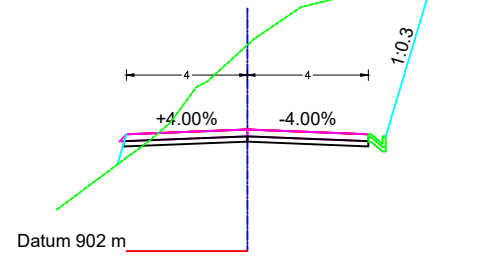
ISSUED FOR TENDERING

Rev	Modification	Drawn:	Checked:	Recommended:	Approved:
Client: DORJILUNG HYDROPOWER PROJECT					
Project: DORJILUNG HYDROPOWER PROJECT (1125 MW) MONGAR, BHUTAN					
Title: DORJILUNG ROAD TO SURGE SHAFT CROSS SECTION					
SHEET 8 OF 16					
CONSULTANT:		NAME	SIG.		
		Designed			
		Drawn			
		Checked			
		Approved			
		Issued Date	NOV 2024		
Original Size A3	Original Scale AS SHOWN	DRAWING NO. DHPP-ROAD-SS-2024-08			REV NA

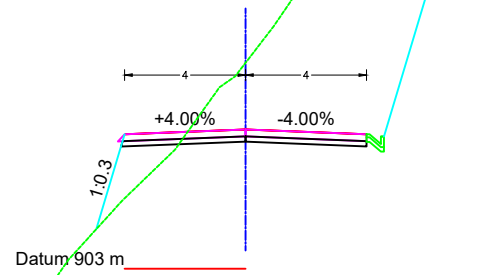
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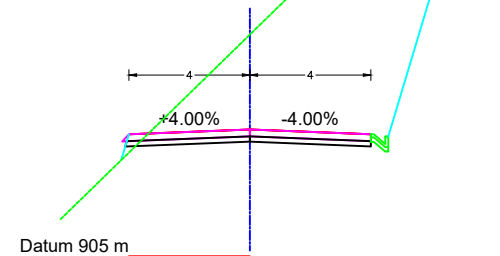
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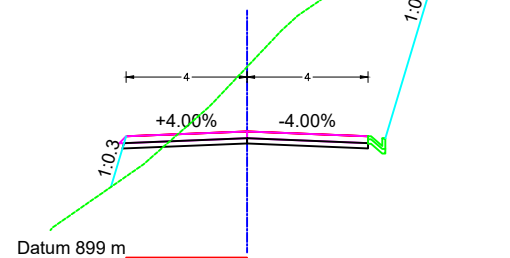
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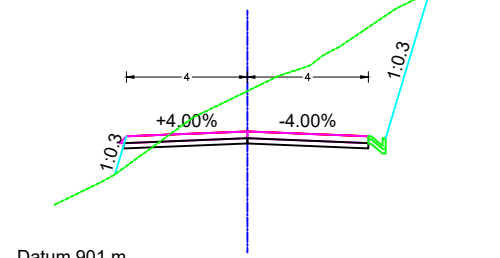
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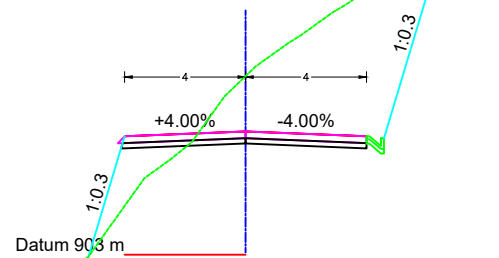
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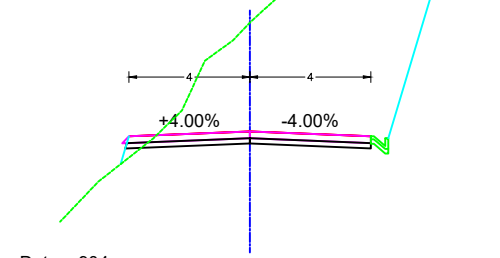
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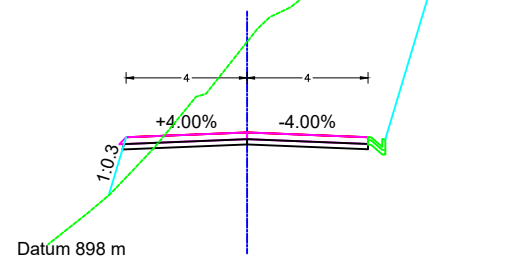
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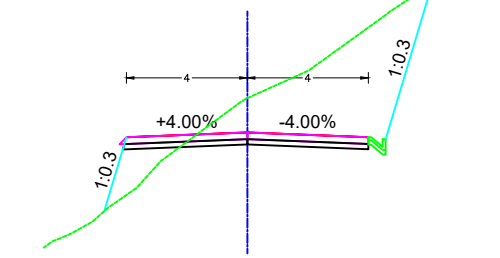
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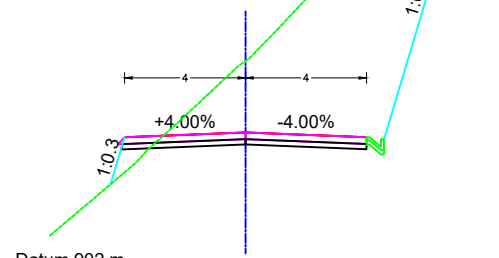
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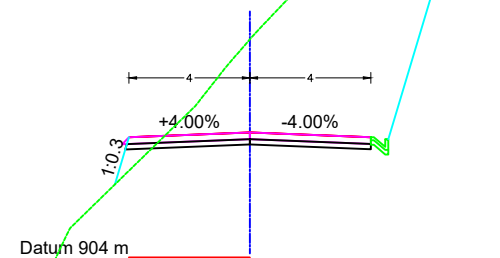
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GL:908.909
DL:906.548



Ch:0+450
GL:911.211
DL:908.134



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SCALE 1 : 250

ISSUED FOR TENDERING

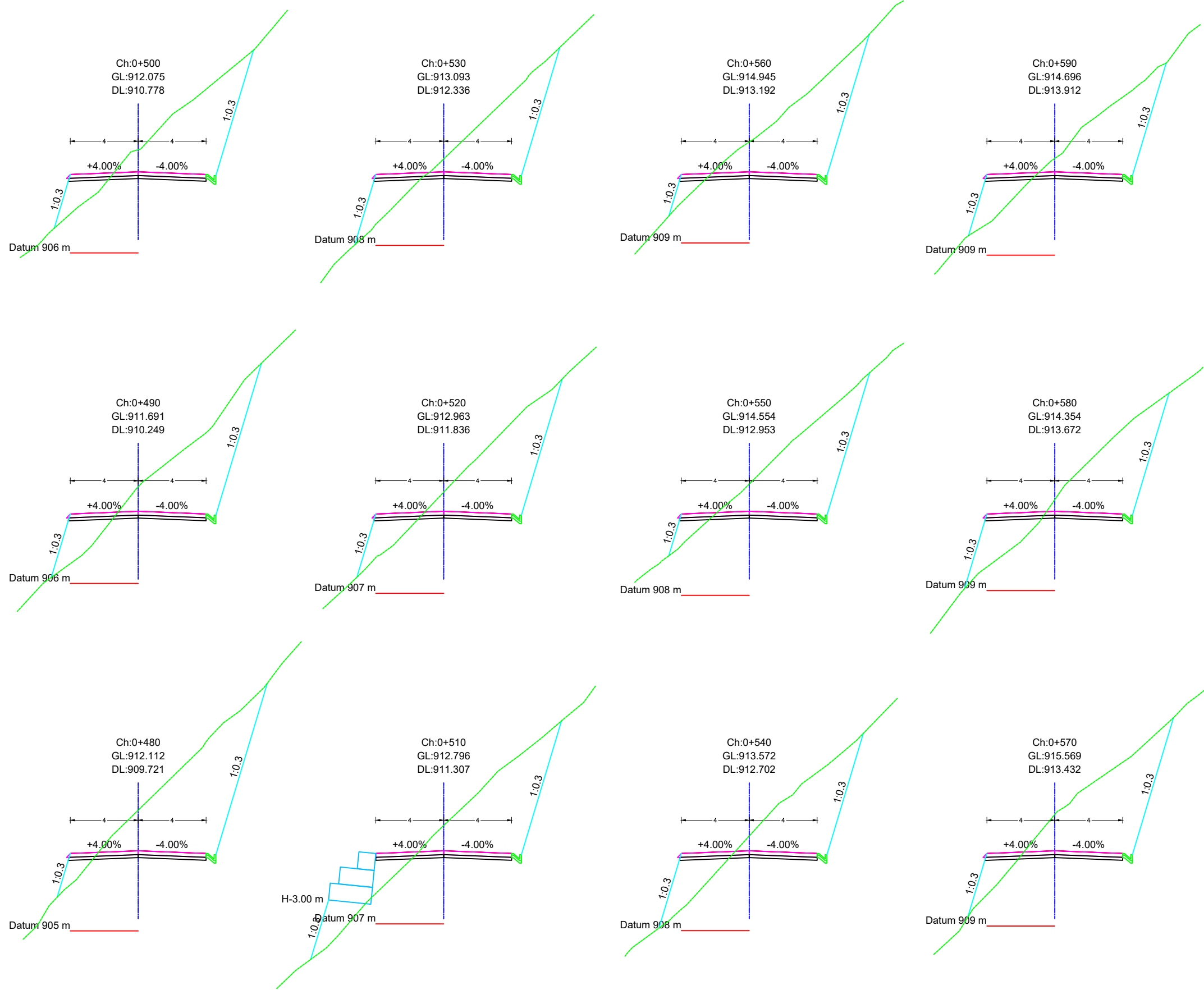
Rev	Modification	Drawn:	Checked:	Recommended:	Approved:
Client: DORJILUNG HYDROPOWER PROJECT					
Project: DORJILUNG HYDROPOWER PROJECT (1125 MW) MONGAR, BHUTAN					
Title: DORJILUNG ROAD TO SURGE SHAFT CROSS SECTION					
SHEET 9 OF 16					
CONSULTANT:		NAME	SIG.		
		Designed			
		Drawn			
		Checked			
		Approved			
		Issued Date	NOV 2024		
Original Size A3	Original Scale AS SHOWN	DRAWING NO. DHPP-ROAD-SS-2024-09			REV NA

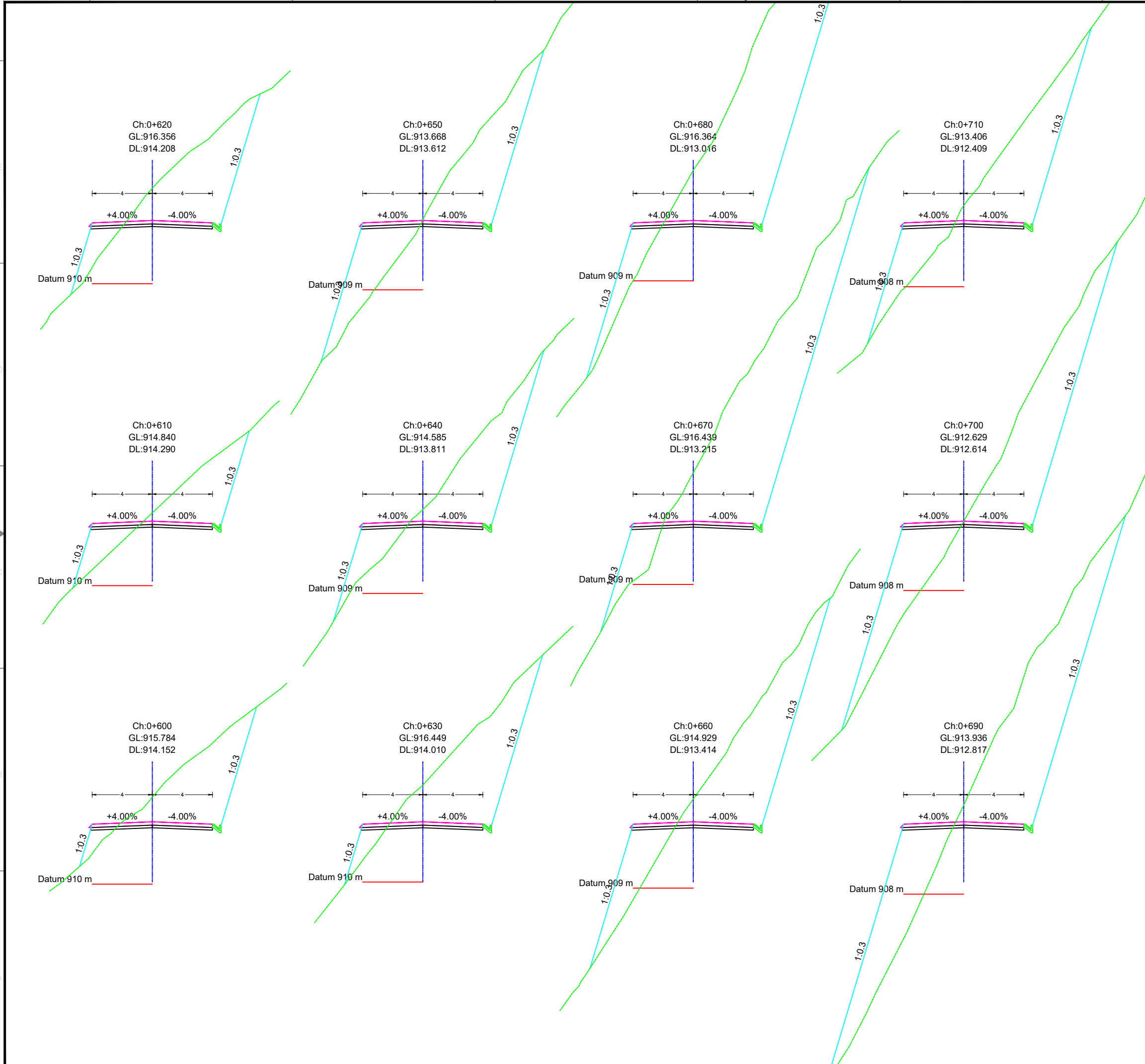
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ISSUED FOR TENDERING

Rev	Modification	Drawn:	Checked:	Recommended:	Approved:
Client: DORJILUNG HYDROPOWER PROJECT					
Project: DORJILUNG HYDROPOWER PROJECT (1125 MW) MONGAR, BHUTAN					
Title: DORJILUNG ROAD TO SURGE SHAFT CROSS SECTION					
SHEET 10 OF 16					
CONSULTANT:		NAME	SIG.		
		Designed			
		Drawn			
		Checked			
		Approved			
		Issued Date	NOV 2024		
Original Size A3	Original Scale AS SHOWN	DRAWING NO. DHPP-ROAD-SS-2024-10		REV	NA






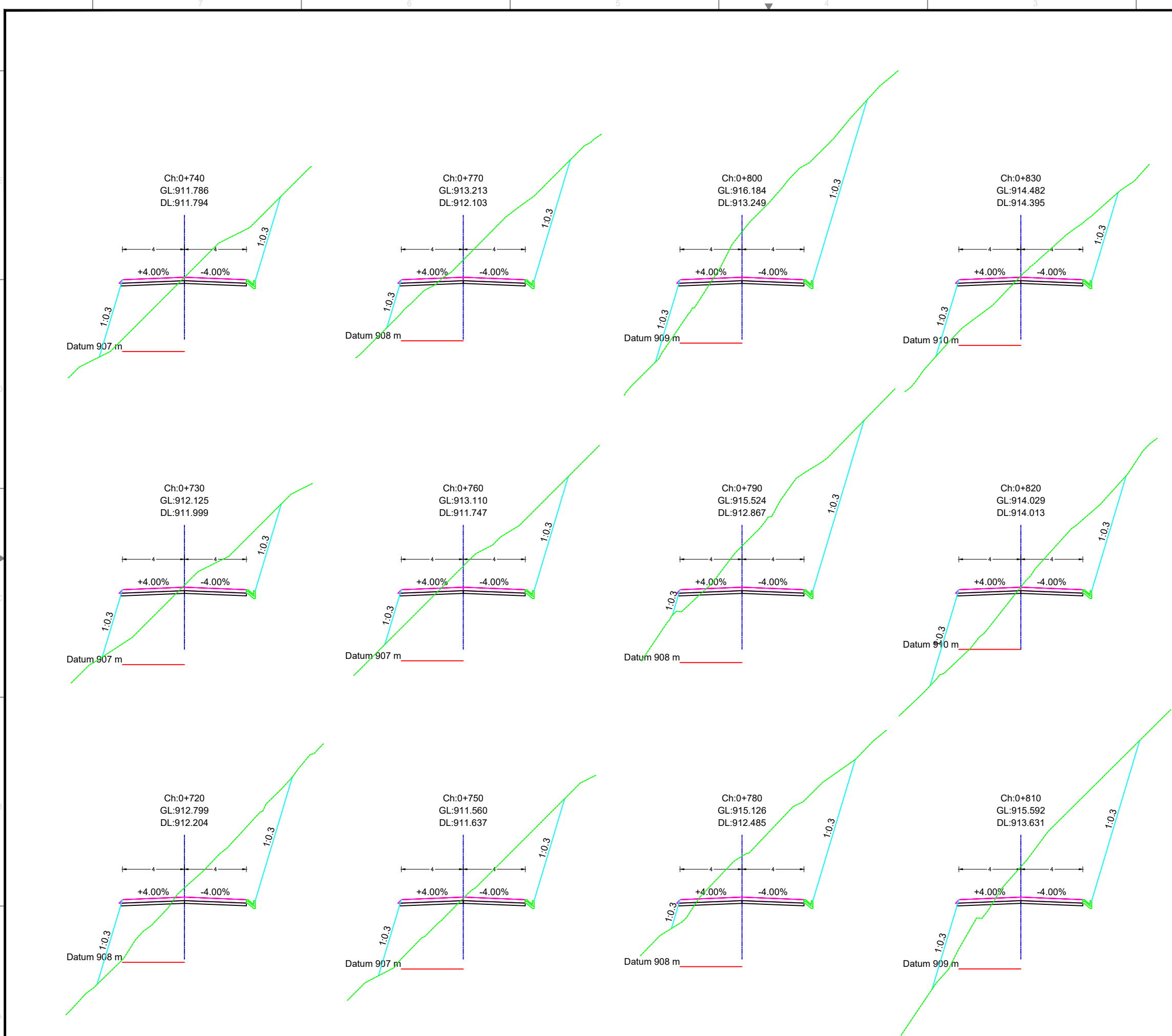
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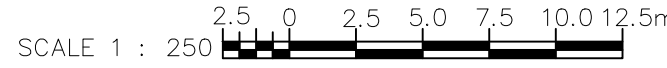
SCALE 1 : 300

ISSUED FOR TENDERING

Rev	Modification	Drawn	Checked	Recommended	Approved
Client: DORJILUNG HYDROPOWER PROJECT					
Project: DORJILUNG HYDROPOWER PROJECT (1125 MW) MONGAR, BHUTAN					
Title: DORJILUNG ROAD TO SURGE SHAFT CROSS SECTION					
SHEET 11 OF 16					
CONSULTANT:		NAME	SIG.		
		Designed			
		Drawn			
		Checked			
		Approved			
		Issued Date	NOV 2024		
Original Size	Original Scale	DRAWING NO.	REV		
A3	AS SHOWN	DHPP-ROAD-SS-2024-11	NA		



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ISSUED FOR TENDERING

Rev	Modification	Drawn:	Checked:	Recommended:	Approved:
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Client: **DORJILUNG HYDROPOWER PROJECT**

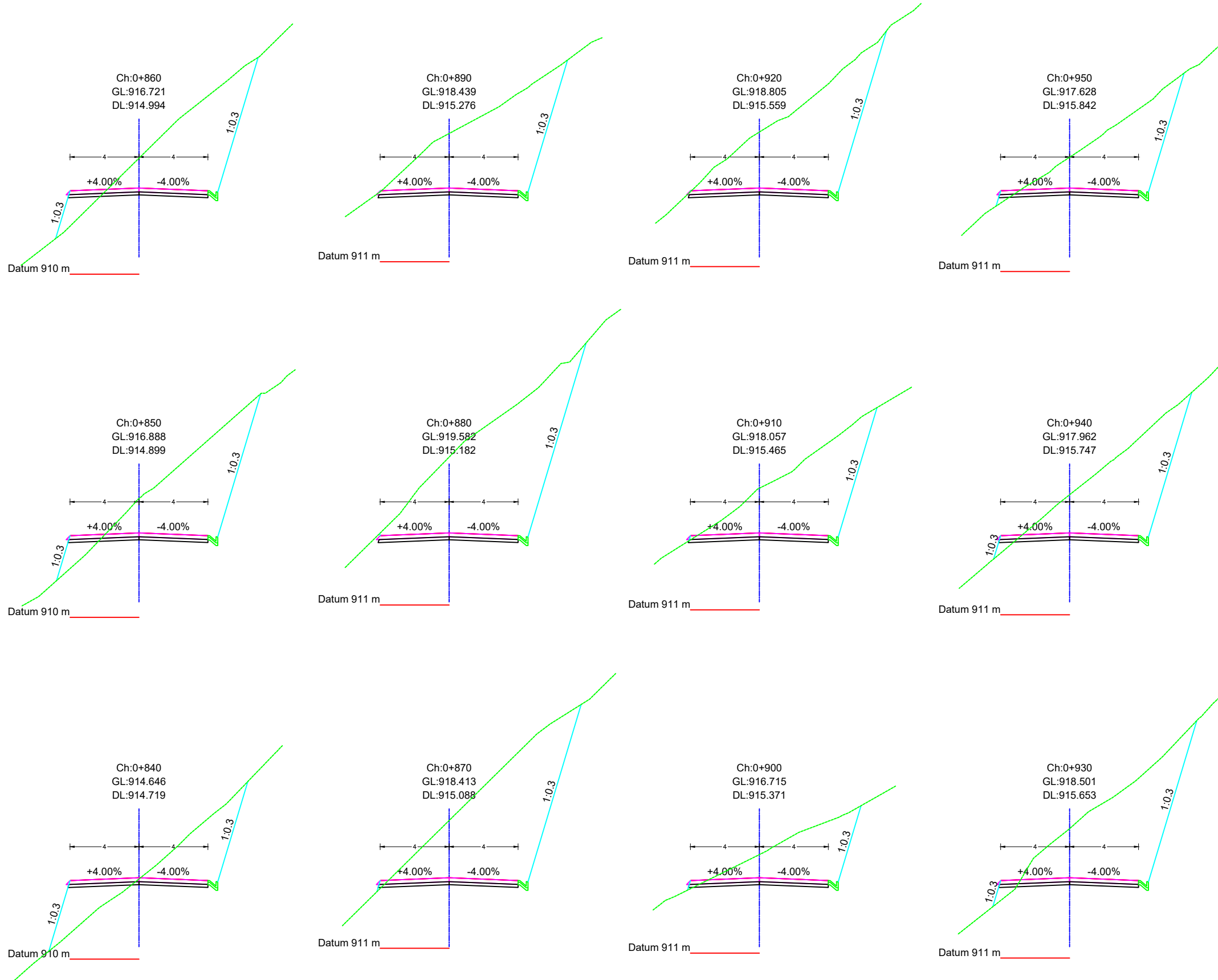
Project: **DORJILUNG HYDROPOWER PROJECT (1125 MW)**
MONGAR, BHUTAN

Title: **DORJILUNG ROAD TO SURGE SHAFT CROSS SECTION**

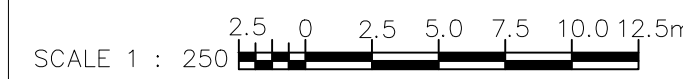
SHEET 12 OF 16

	NAME	SIG.	
Designed			
Drawn			
Checked			
Approved			
Issued Date		NOV 2024	

Original Size A3	Original Scale AS SHOWN	DRAWING NO. DHPP-ROAD-SS-2024-12	REV NA
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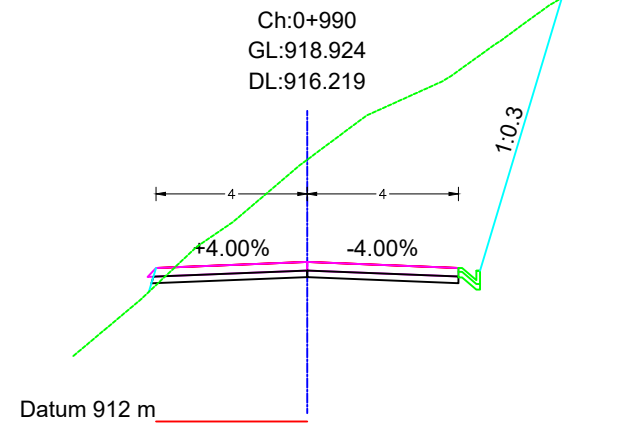
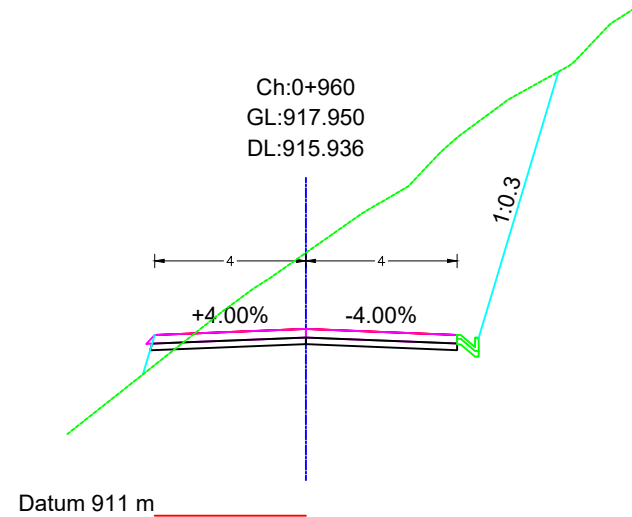
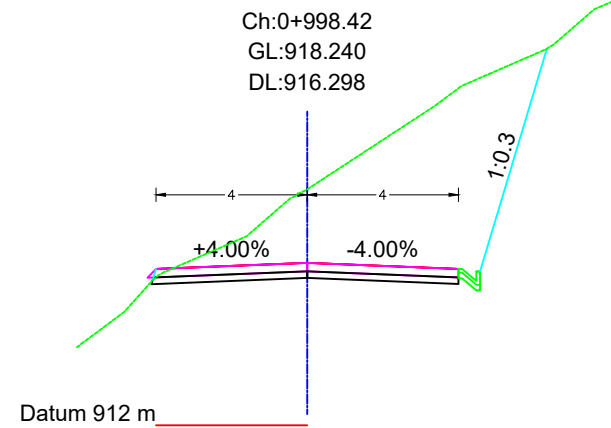
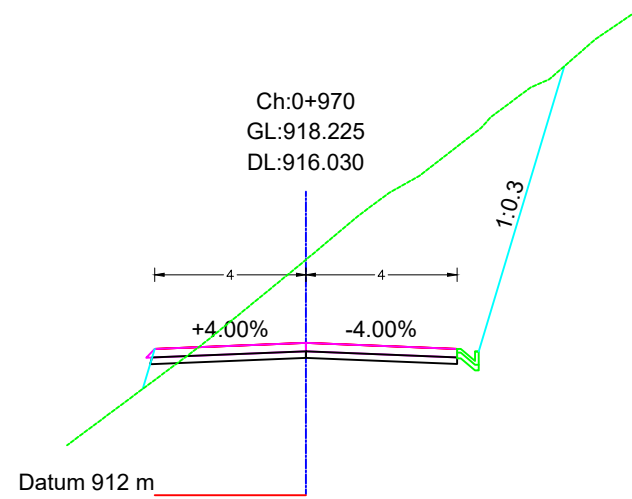
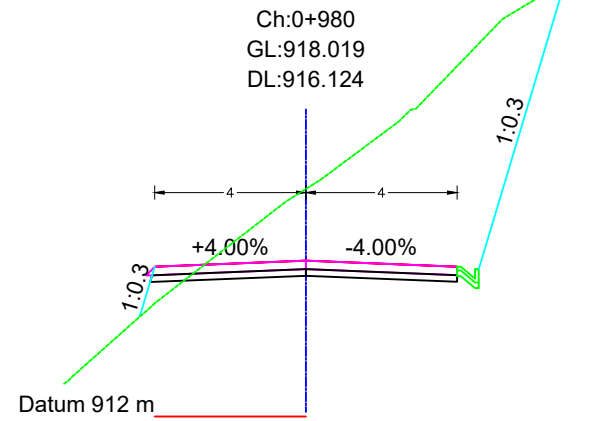


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ISSUED FOR TENDERING

Rev	Modification	Drawn	Checked	Recommended	Approved
Client: DORJILUNG HYDROPOWER PROJECT					
Project: DORJILUNG HYDROPOWER PROJECT (1125 MW) MONGAR, BHUTAN					
Title: DORJILUNG ROAD TO SURGE SHAFT CROSS SECTION					
SHEET 13 OF 16					
CONSULTANT:		NAME	SIG.		
		Designed			
		Drawn			
		Checked			
		Approved			
		Issued Date	NOV 2024		
Original Size A3	Original Scale AS SHOWN	DRAWING NO. DHPP-ROAD-SS-2024-13			REV NA



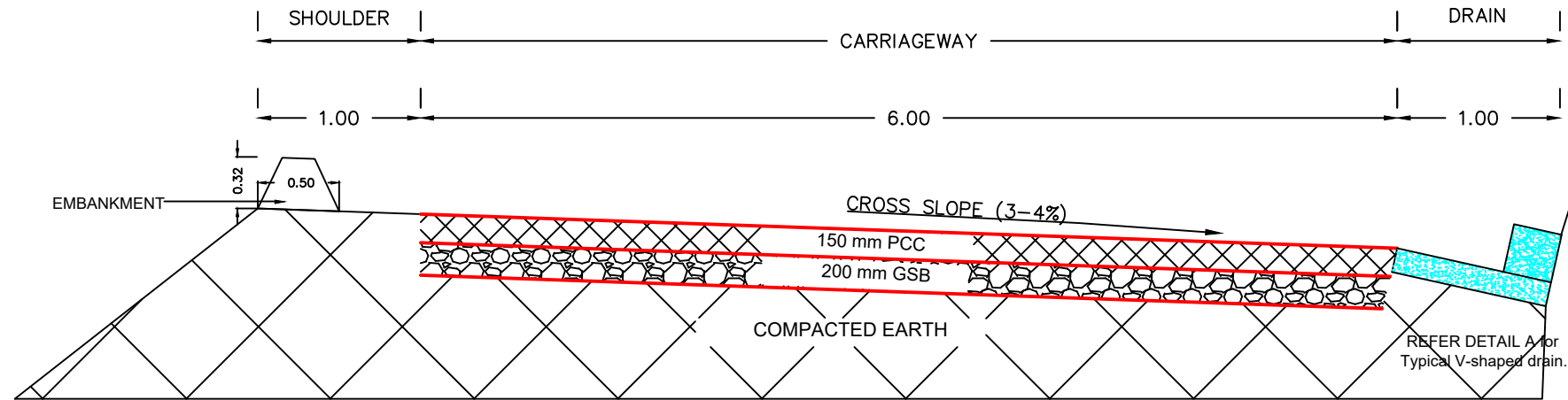
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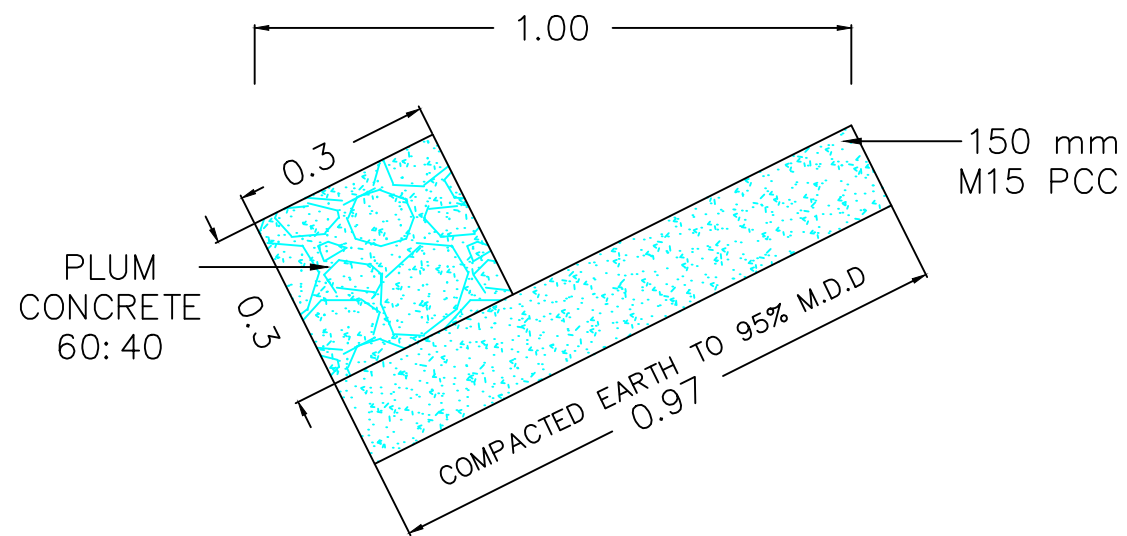
SCALE 1 : 250

ISSUED FOR TENDERING

Rev	Modification	Drawn:	Checked:	Recommended:	Approved:
Client: DORJILUNG HYDROPOWER PROJECT					
Project: DORJILUNG HYDROPOWER PROJECT (1125 MW) MONGAR, BHUTAN					
Title: DORJILUNG ROAD TO SURGE SHAFT CROSS SECTION SHEET 14 OF 16					
CONSULTANT:		NAME	SIG.		
		Designed			
		Drawn			
		Checked			
		Approved			
		Issued Date	NOV 2024		
Original Size A3	Original Scale AS SHOWN	DRAWING NO. DHPP-ROAD-SS-2024-14			REV NA



Typical One-way Camber Cross Slope in Super Elevated Sections for Double Lane.



DETAIL A: Typical V-shaped drain

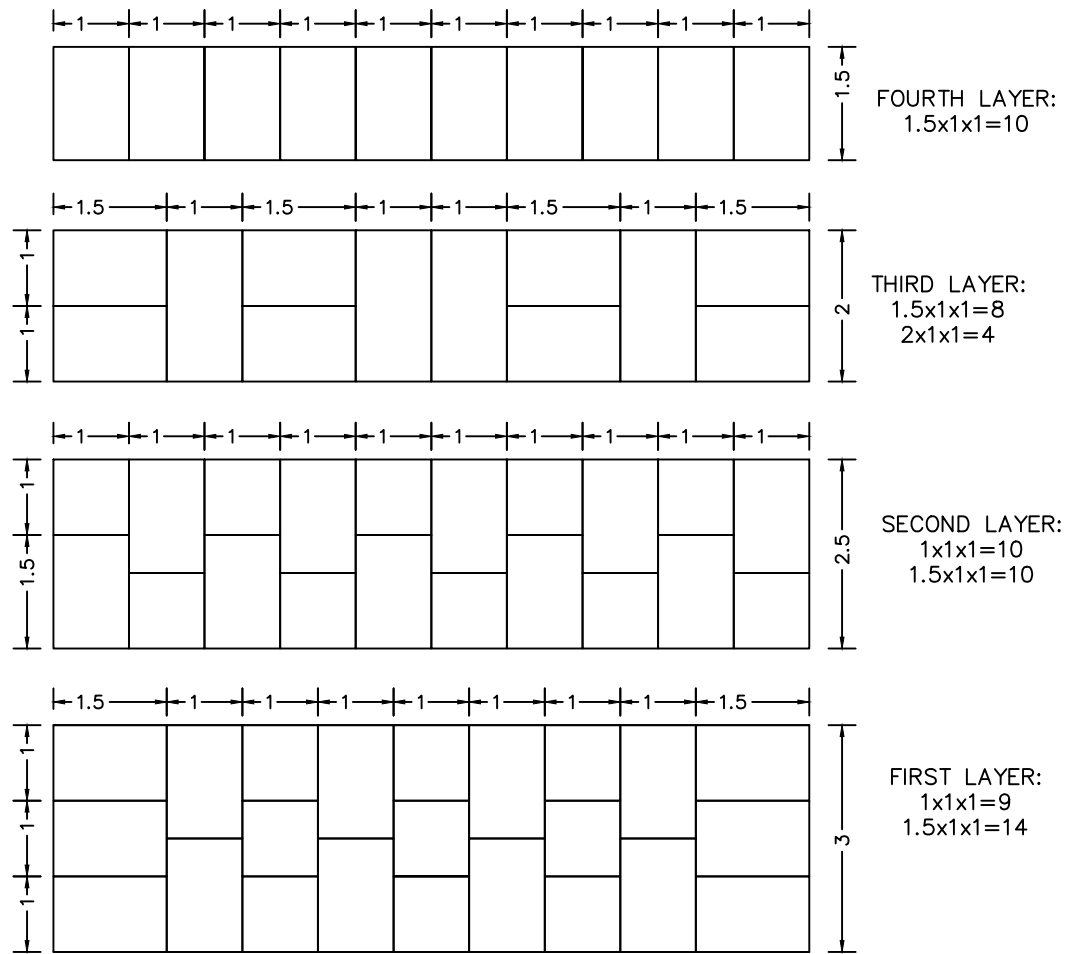
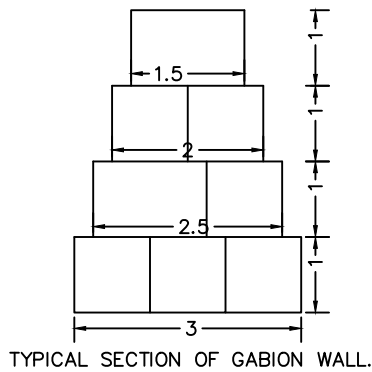
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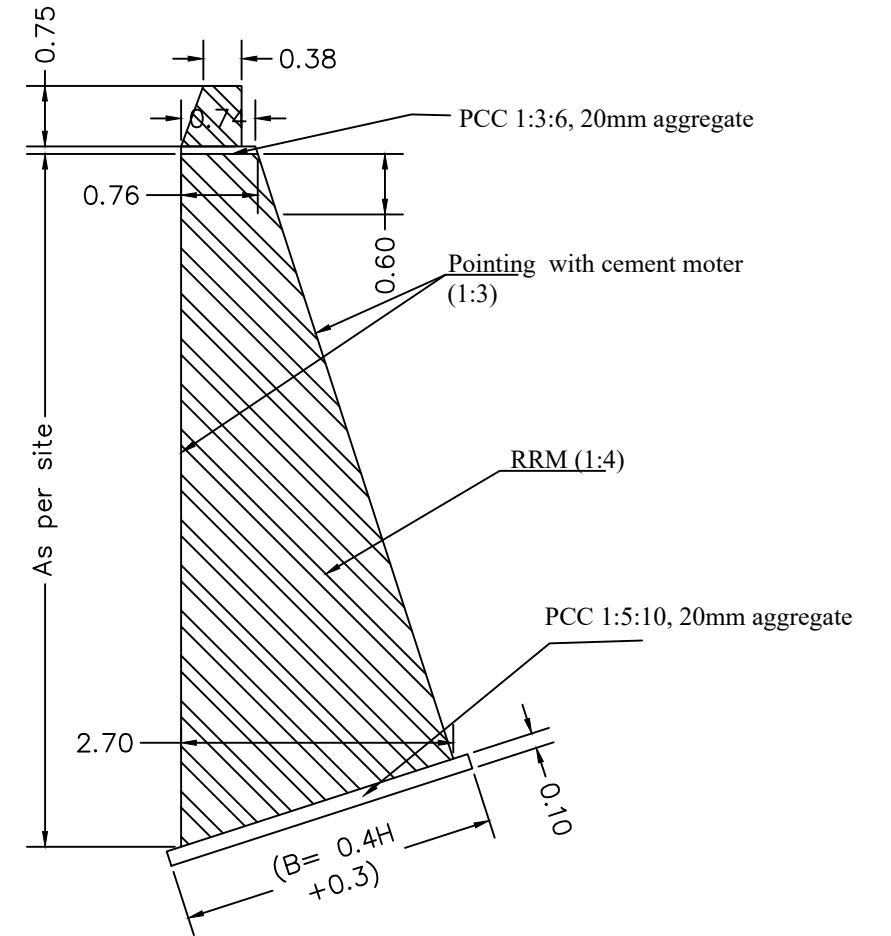
ISSUED FOR TENDERING

Rev	Modification	Drawn	Checked	Recommended	Approved
Client: DORJILUNG HYDROPOWER PROJECT					
Project: DORJILUNG HYDROPOWER PROJECT (1125 MW) MONGAR, BHUTAN					
Title: DORJILUNG ROAD TO SURGE SHAFT TYPICAL SECTION OF ROAD AND DRAIN					
SHEET 15 OF 16					
CONSULTANT:		NAME	SIG.		
		Designed			
		Drawn			
		Checked			
		Approved			
		Issued Date	NOV 2024		
Original Size	Original Scale	DRAWING NO.			REV
A3	AS SHOWN	DHPP-ROAD-SS-2024-15			NA

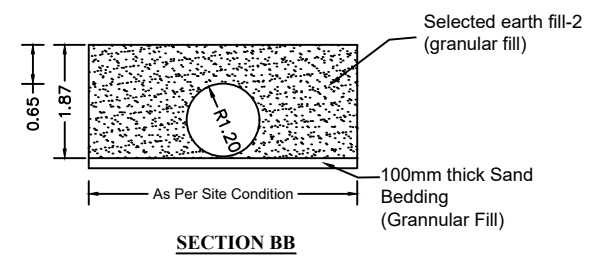
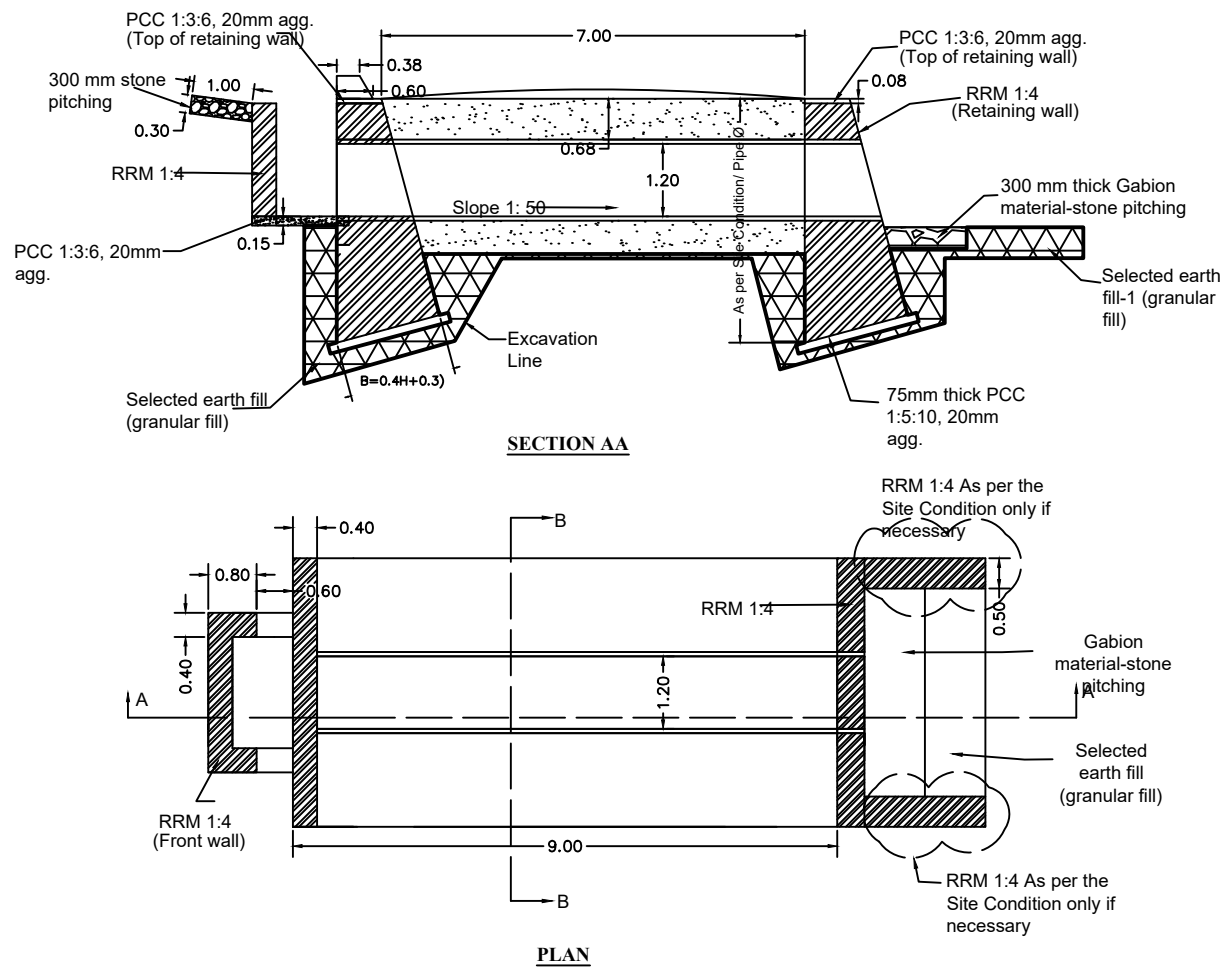




GABION WALL PLAN.



TYPICAL SECTION OF RETAINING WALL

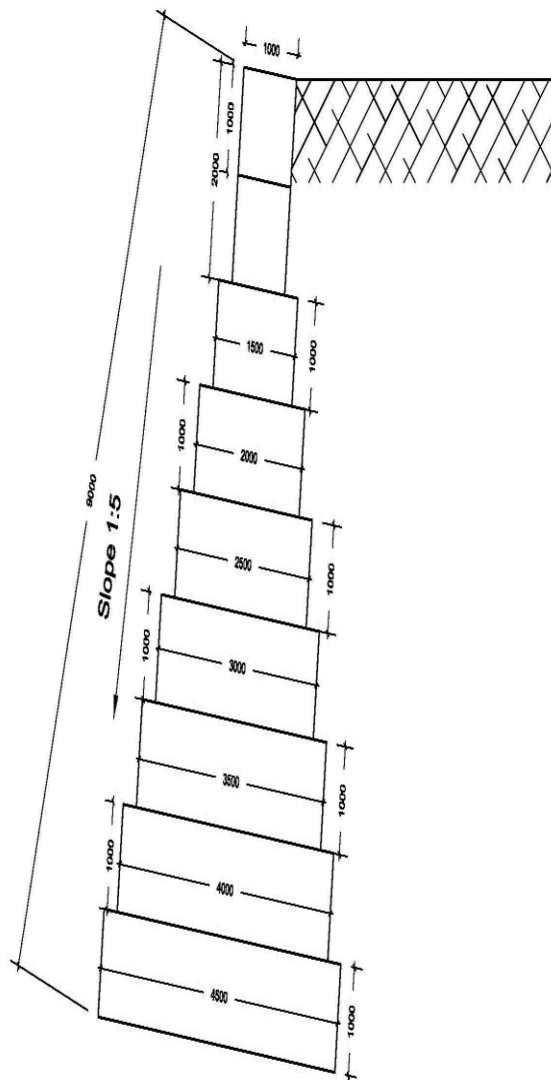


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 - ALL DIMENSIONS/DETAILS SHALL BE CHECKED ALONG WITH THE RELEVANT DRAWINGS BEFORE STARTING EXECUTION OF WORKS. DISCREPANCY, IF ANY, SHALL BE IMMEDIATELY BROUGHT TO THE NOTICE OF PROJECT AUTHORITY/CONSULTANT FOR REVIEW.

SCALE 1 : 250

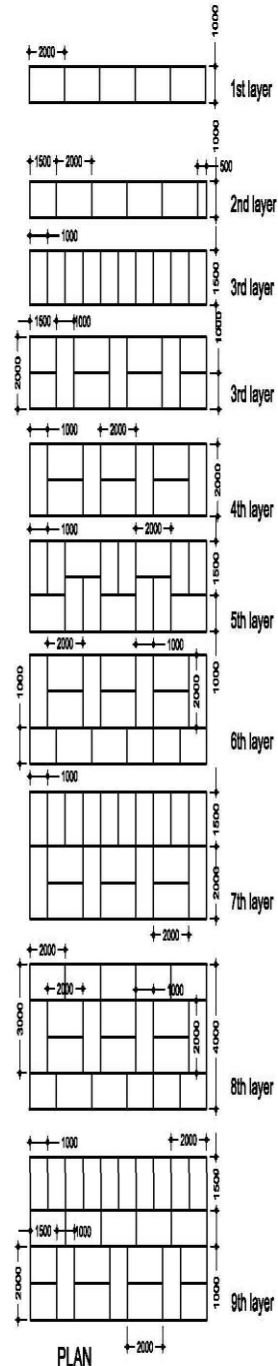
ISSUED FOR TENDERING

Rev	Modification	Drawn	Checked	Recommended	Approved
Client: DORJILUNG HYDROPOWER PROJECT					
Project: DORJILUNG HYDROPOWER PROJECT (1125 MW) MONGAR, BHUTAN					
Title: DORJILUNG ROAD TO SURGE SHAFT TYPICAL SECTION OF HUME PIPE, RETAINING AND GABION WALL SHEET 16 OF 16					
CONSULTANT:		NAME	SIG.		
		Designed			
		Drawn			
		Checked			
		Approved			
		Issued Date	NOV 2024		
Original Size	A3	Original Scale	AS SHOWN	DRAWING NO.	DHPP-ROAD-SS-2024-16
				REV	NA



SECTION

Note :
Provide foundation drains @ 1500c/c



PLAN

GABION WALL