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Notes

Cutblock discussions and verification of landforms were originally conducted during a field trip on October 8, 2015 by RDI with BCTS, and field resource people in attendance. RDI produced a VIA report based on those discussions. A revised proposal was received from BCTS in 2018. This visual assessment considers each and all of the proposed cutblocks. RDI was not provided the opportunity to assess Viewpoints 1 through 9 on-site and cannot verify the accuracy of the simulations from those viewpoints. On-site validation is recommended to determine roadside screening from all viewpoints.

Combined VSUs were delineated into landforms, which are most apparent along the west side of the highway as one travels by the broadest portion of each landform. The landforms are delineated by fairly obvious breaks in topography. The landform delineation identifies the primary visual force lines at the same time. The 5 identified landforms extend along the full north-south length of VSU 1142 which has a VSC of 2 and eVQO of Partial Retention. These were re-named from the previous report, as one additional landform was added. The landforms extend uphill to the visible heights of land in VSU 1144 which has the same ratings. These combine both VSUs, visually. Each landform is seen tangentially in the view from Highway 5 except when the viewpoint is directly perpendicular, opposite each landform. The analysis viewpoints were those identified in the prior VIAs and refined to capture each proposed cutblock. For simplicity, the viewpoints have now been numbered sequentially, travelling from the furthest south on Highway 5 (VP 1) to the furthest north (VP 13). This report also cross-references the new numbering system with the original numbering to provide ease of comparison with the original reports (2015 and prior). Each landform is addressed separately, and summarized in the table opposite. As discussed, RDI was not provided the opportunity for on-site assessment from Viewpoints 1 through 9, therefore roadside screening presence has not been determined and only the stand heights in the forest VRI file were used in the simulations.

Each landform in view was simulated from each viewpoint using Visual Nature Studio. Full panoramic views were produced as 180 degree composites of 45 degree field of view/42mm camera lens each rendering from the majority of viewpoints.

Each visible cutblock was identified in the simulations and labelled in the CorelDraw! Document. Percent alteration was calculated from 7 Viewpoints: 3, 4, 5, 7, 10, 11 and 12. Results are provided in the Summary Table and by viewpoint.

Landform A is the first landform starting from Viewpoint A. It contains Cutblocks 17-1 to 17-4, 17-11, 18-5, 18-6, and AL8PT. Several cutblocks appear immediately adjacent to the highway, based on the VRI. These are 17-1 to 17-3, and 17-11. 18-5 is also seen immediately above 17-1. Several of these cutblocks appear to be excessive in scale if seen openly (see Viewpoints 3, 4, 5, and 7). Site verification is required.

Landform B: Existing AL787 is considered nonVeg. The most open view is from VP 10, the Snowmobile lot. Percent alteration keeps within PR including the newly proposed cutblocks 17-6, 17-7, and AL8PQ. The new cutblocks would contribute 0.76% of the total 4.28% alteration and have minimal influence and good shape.

Landform C: The most open view is from Viewpoint 11 where Percent Alteration would be just over 5% from 18-8, 18-4, and AL8PR. Although collectively meeting the VQO, the cutblocks are grouped together and tend to exhibit a moderate to large scale. Some leave patches should be considered to break up the concentration, mainly in 17-8 and 18-4. These are seen next to the existing AL787 in Landform B, and somewhat exaggerate the scale already present, though on a separate landform.

Landform D: The landform contains 18-2 which is seen as large (8.7%) and rectangular from Viewpoint 12, pushing beyond the upper limit of PR. Both scale reduction and shape refinement are suggested for this cutblock.

Landform E: This landform at the north end of the VSU is seen most directly from Viewpoint 12, and contains 18-1, AL7NF, and AL8QB. Percent Alteration from VP 12 is within PR at under 5%. AL8QB is visually appealing as it is interspersed amongst younger-age patches. There are few additional opportunities to view directly. AL7NF is mainly NVS except from VP12 where it small.

Conclusions

My conclusions are that: 1) the cutblocks in Landform A appear out of scale due to their proximity to the highway, and perhaps due to the simulations showing no roadside forest cover. These should be reduced in scale if that screening does not exist (on-site verification required), 2) some leave patches should be added to 17-8 and 18-4 together in Landform C to reduce the apparent scale even though Percent Alteration limits are met, and 3) 18-2 in Landform D needs reduction/re-shaping to meet the VQO. Beyond these concerns and recommendations, the proposed development exhibits good adherence to visual design principles.

See Cutblock/Landform summary by viewpoint on the table opposite. Images from each viewpoint follow on subsequent pages.



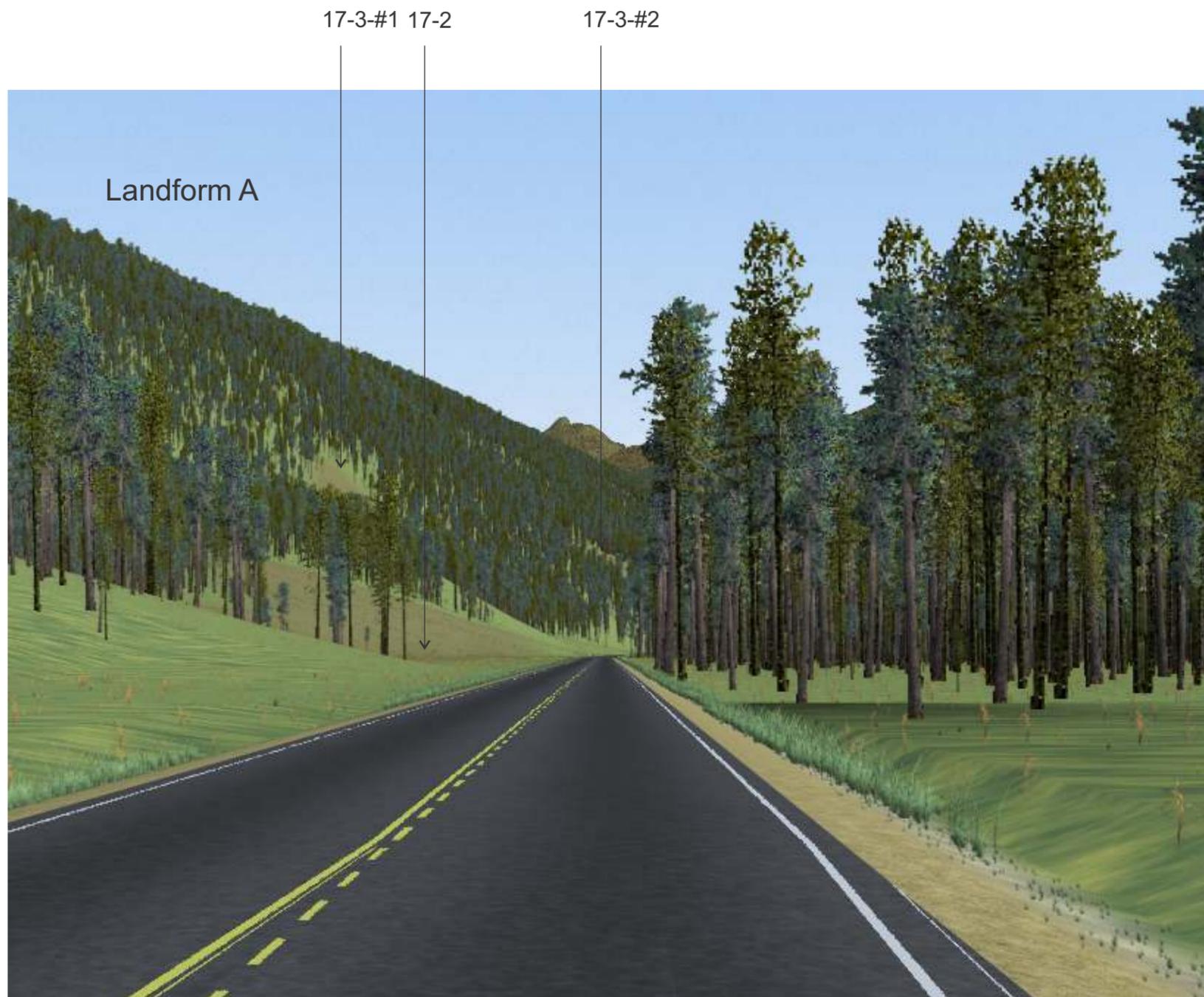
Ken B. Fairhurst, PhD, RPF
RDI Resource Design Inc
July 27, 2018

Summary of Cutblock / Landform Findings

Summary Table - Landscape Assessment of Cutblocks by Landform and Viewpoint																		
Cutblocks by Landform					Cutblocks by Viewpoint													
Cutblock_No	A	B	C	D	E	VP1	VP2	VP3	VP4	VP5	VP6	VP7	VP8**	VP9	VP10	VP11	VP12	VP13
17-1	Y										V	V*						
17-2	Y					V*	V*	V*	V	V								
17-3	Y					V	V		V*	V*								
17-4	Y																	
17-5		Y																
17-6		Y												V			V	V
17-7		Y												V	V	V		V
17-8			Y											V	V	V*	V	
17-9		Y															V	V
17-10		Y																
17-11	Y										V?							
18-1					Y										V		V*	V*
18-2				Y											V	V	V*	V*
18-3			Y														V	V
18-4			Y											V		V*	V	
18-5	Y											V*						
18-6	Y													V	V			
18-AL8PT	Y	Y																
19-AL8PQ		Y												V	V	V	V	V
19-AL8PR			Y											V	V	V	V	V
19-AL8QB					Y										V	V	V	V*
AL787nonVEG		Y												V	V	V	V	V
AL7NF					Y												V	

*moderate to large in scale relative to the landform.

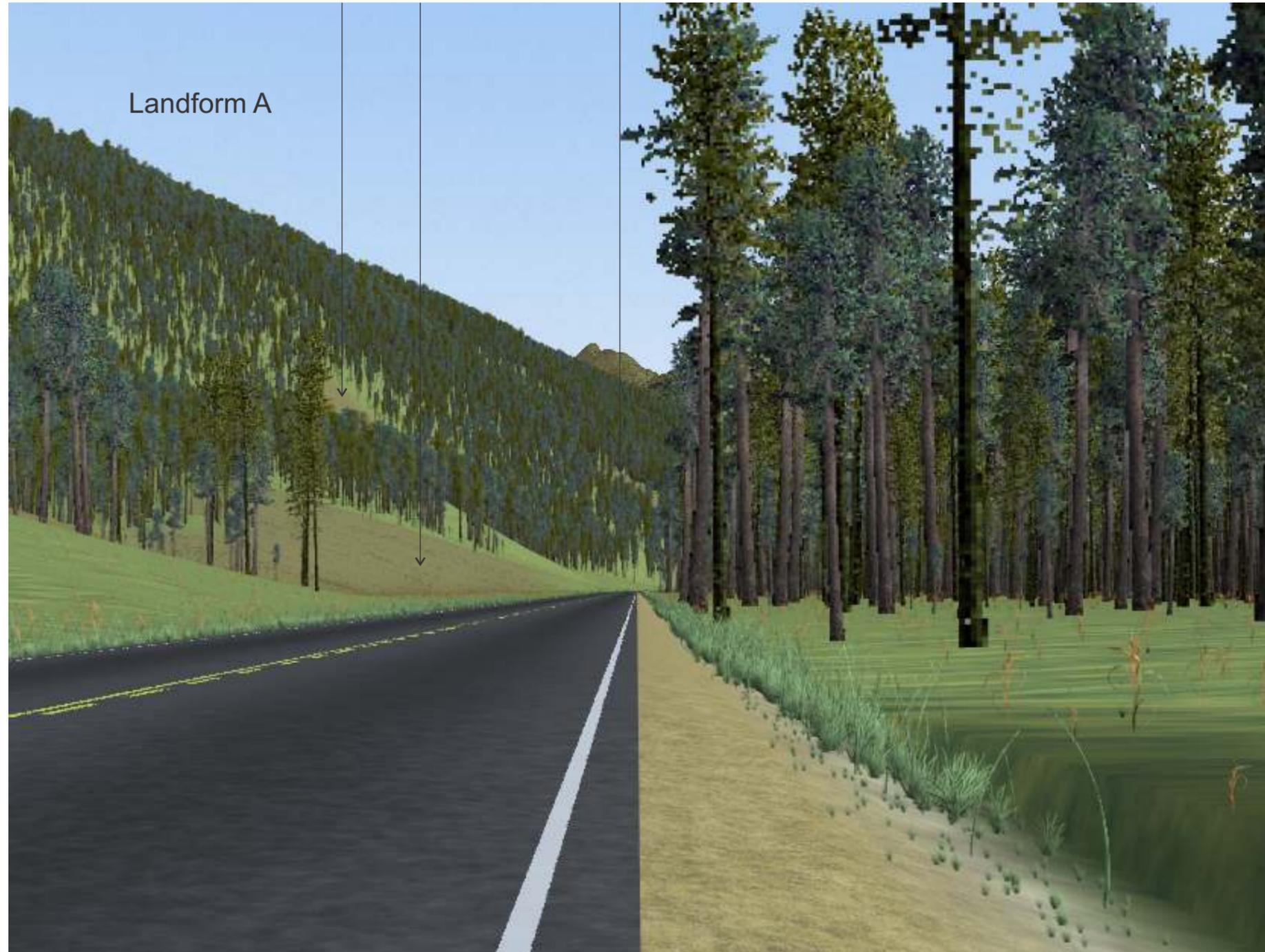
**VP8: screened, see bare land rendering for potential visibility if roadside trees removed.



See viewpoints 3to 5 for Percent Alteration analyses of Cutblocks 17-2 and 17-3

17-3-#1 17-2

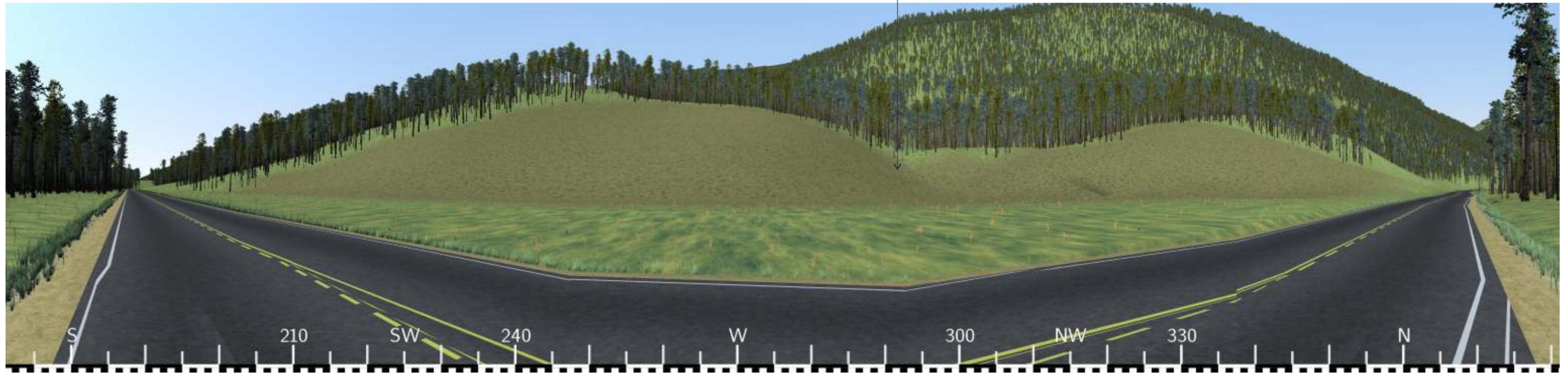
17-3-#2



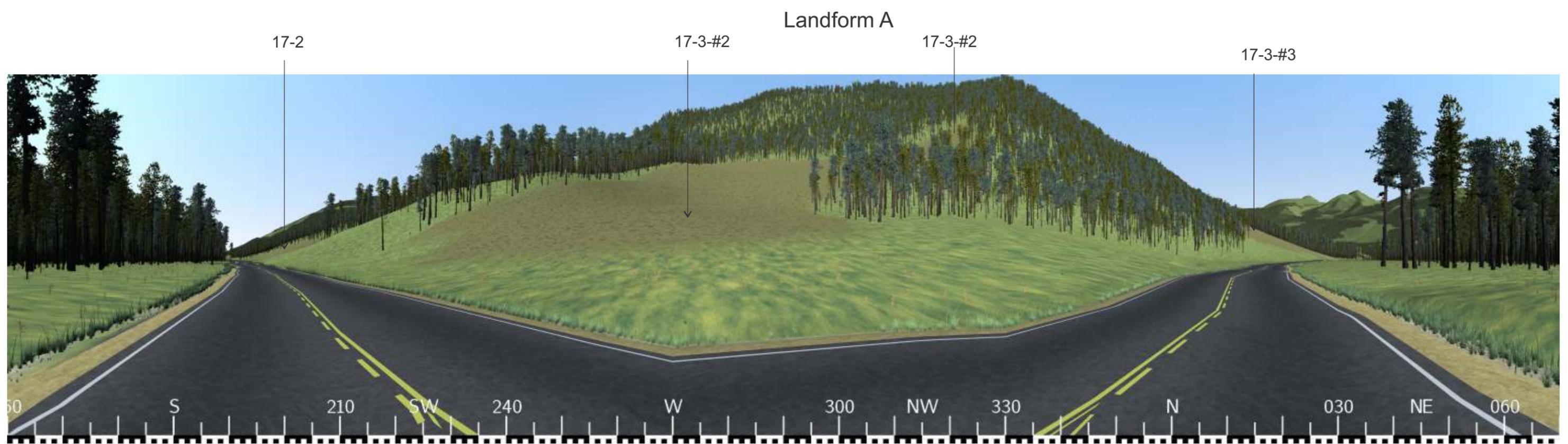
See viewpoints 3 to 5 for Percent Alteration analyses of Cutblock 17-3

Landform A

17-2



Viewpoint 3 Percent Alteration		
Landform A	1847554	
17-2*	743311.1	40.23%
*Scale is excessive. Requires on-site review of roadside screening to determine cutblock visibility.		

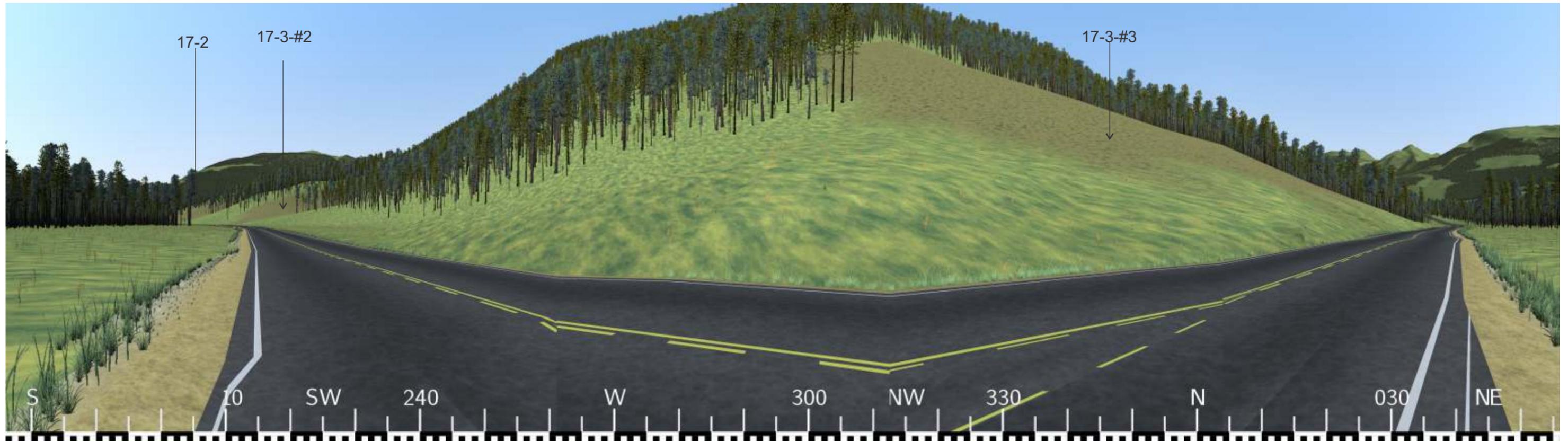


8960

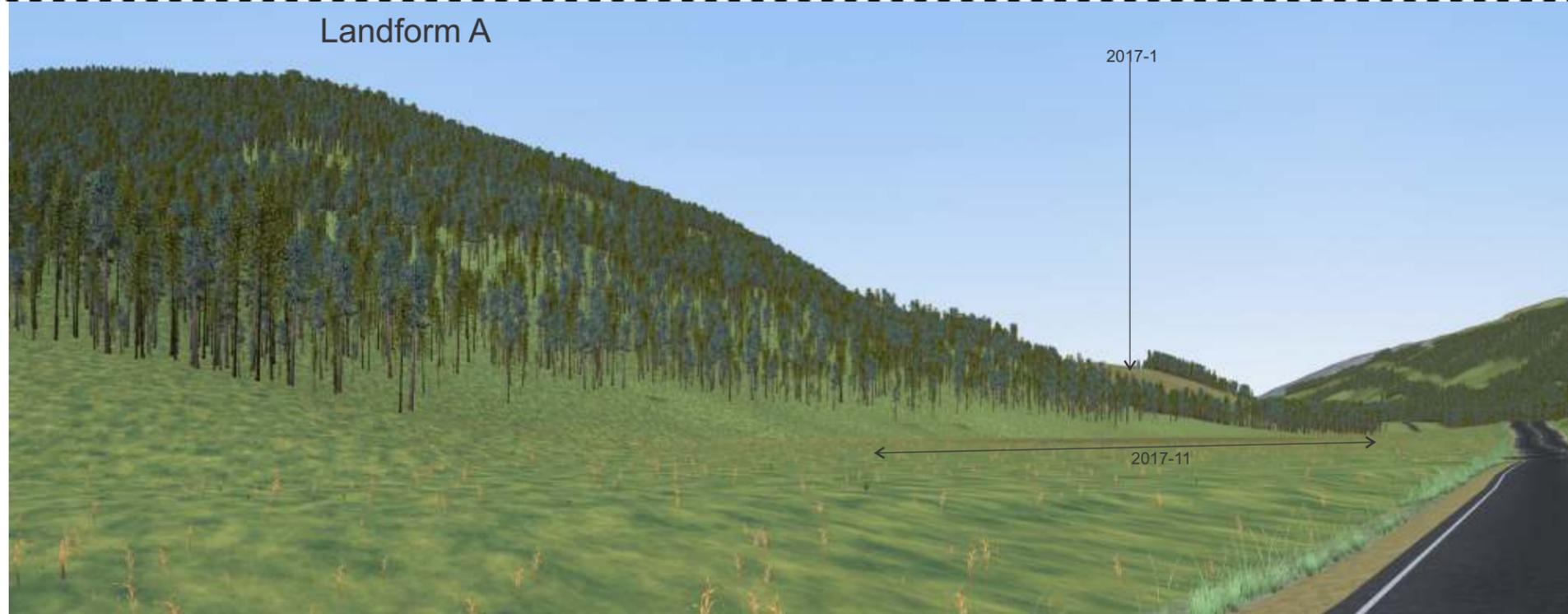
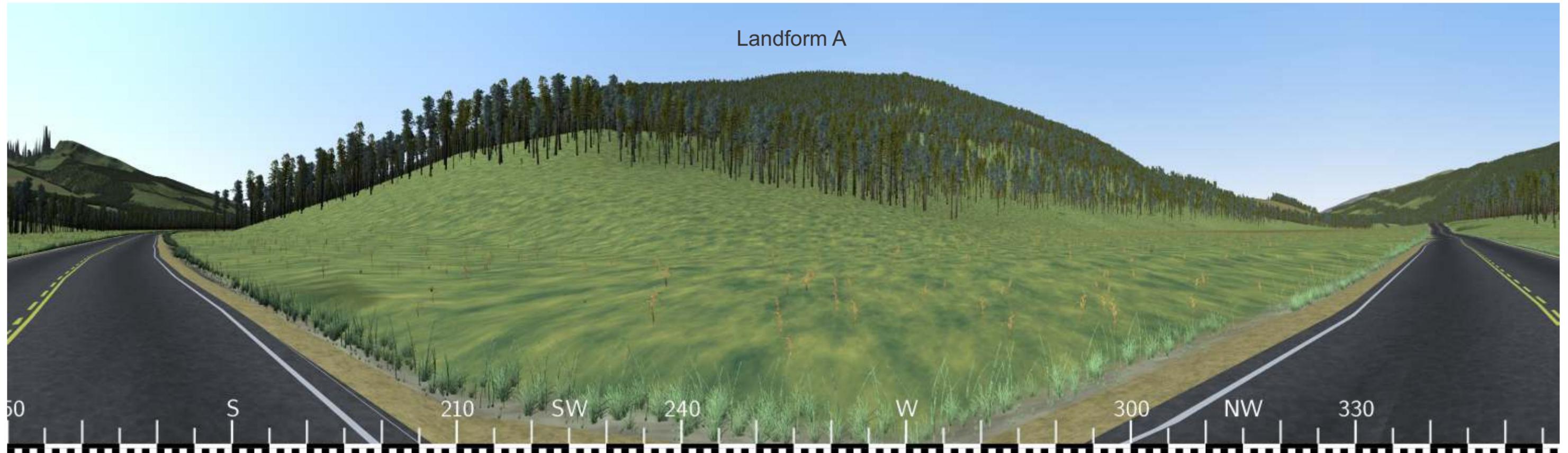
Percent Alteration Viewpoint 4		
NAME	AREA2	% Alt
Landform A	1380166.09	
17-3*	301566.51	21.85%
17-3	1607.26	0.12%
17-3	1709.93	0.12%
17-3	572.08	0.04%
17-3	6420.35	0.47%
17-3	228.52	0.02%
17-2	3639.72	0.26%
Sum Landform A*	315744.38	22.88%
*Scale is excessive. Requires on-site review of roadside screening to determine cutblock visibility.		

Albreda 2018 - VP 4-1729D

Landform A



Percent Alteration Viewpoint 5		
NAME	AREA2	% Alt
Landform A	1997718.07	
17-3*	235574.18	11.79%
17-3	17093.73	0.86%
17-2	4307.96	0.22%
Viewpoint 5 Sum*	256975.87	12.86%
Percent Alteration from Viewpoint 5 exceeds limit of 7% for Partial Retention VQC. Requires site visit to determine extent of roadside screening.		

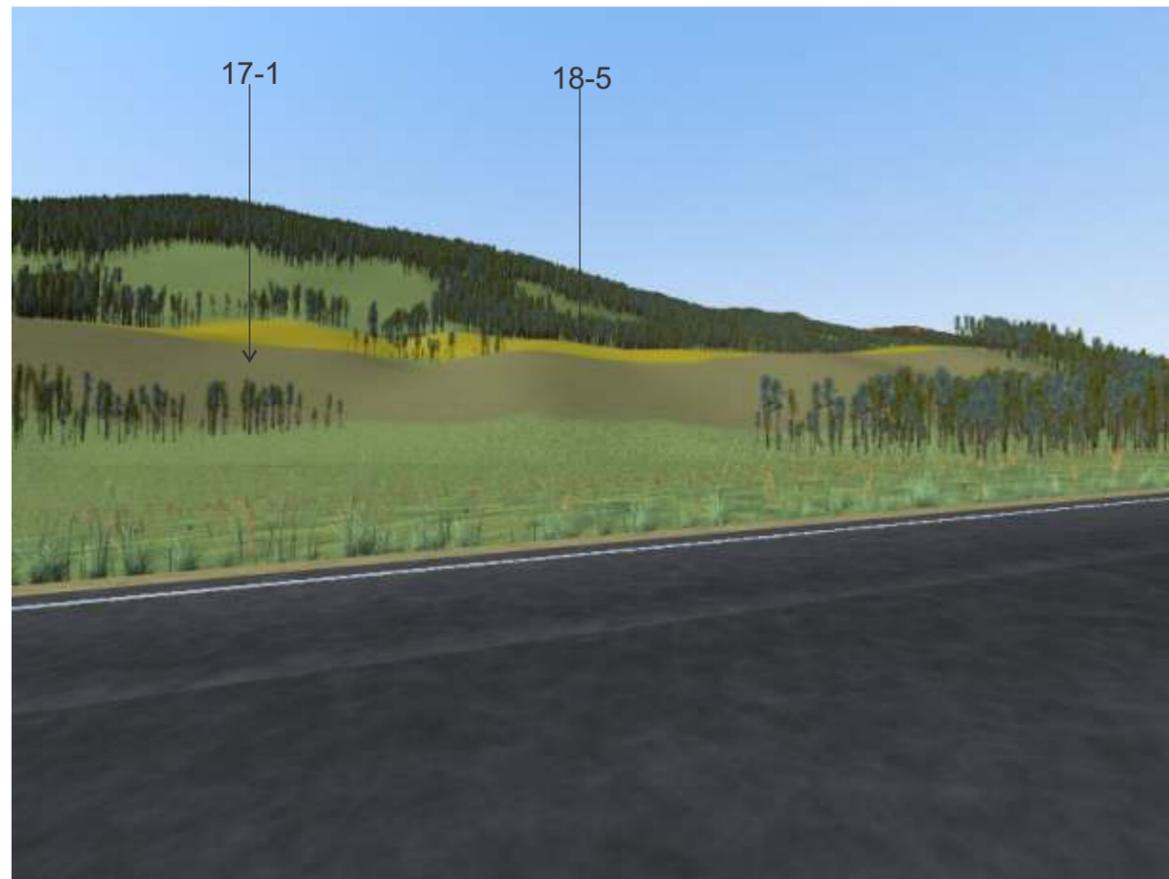
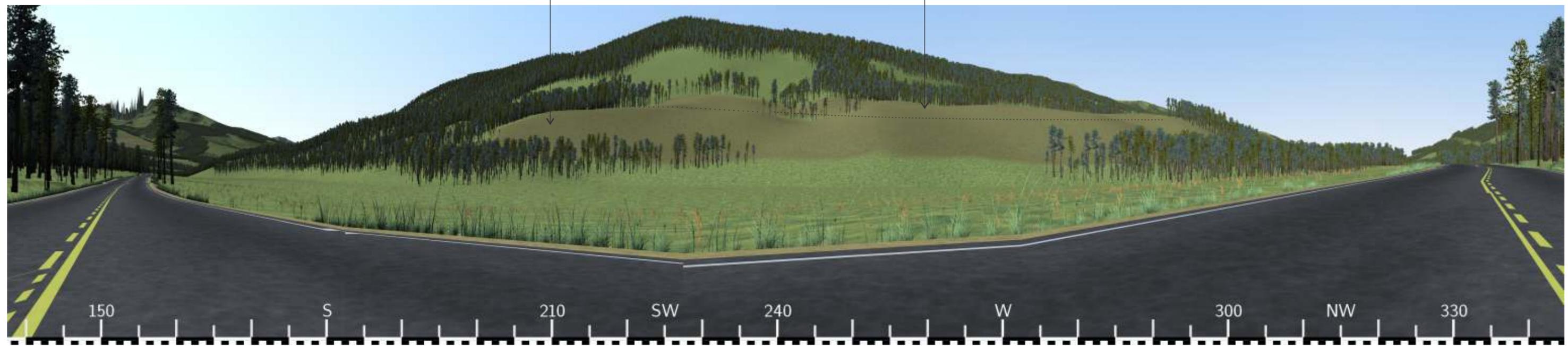


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2880/1296

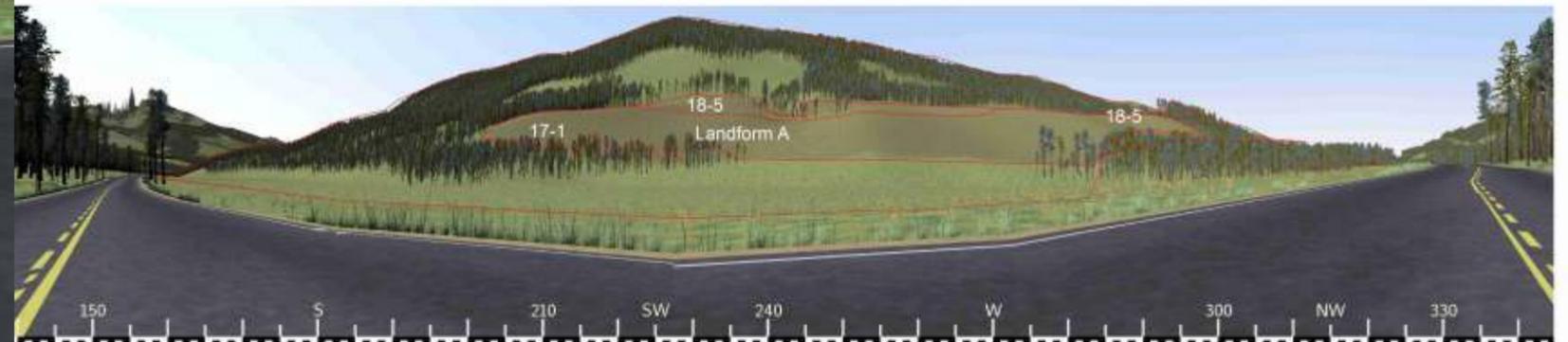
See viewpoint 7 for Percent Alteration analysis of Cutblock 17-1. Requires site visit to determine roadside screening.

Landform A



Percent Alteration Viewpoint 7		
NAME	AREA2	%Alt
Landform A	1212194.04	
17-1*	257886.47	21.27%
18-5	38686.24	3.19%
18-5	982.16	0.08%
Sum Landform A*	297554.86	24.55%
*Greatly exceeds PR VQO. On-site review of roadside screening required.		

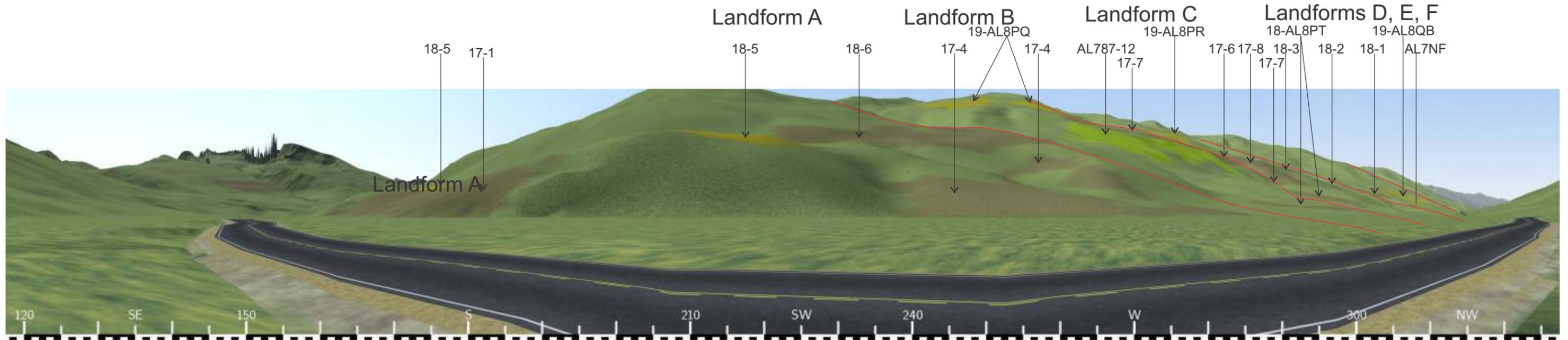
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Albreda 2018 - VP 7-1730.2

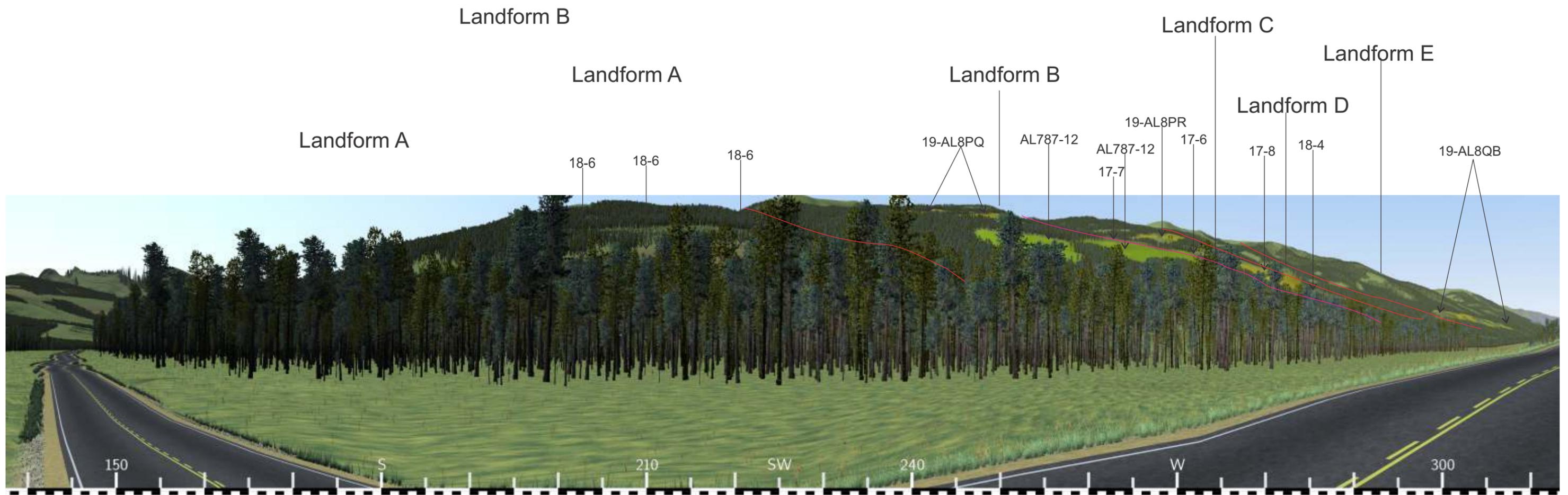


Full Screening Predicted



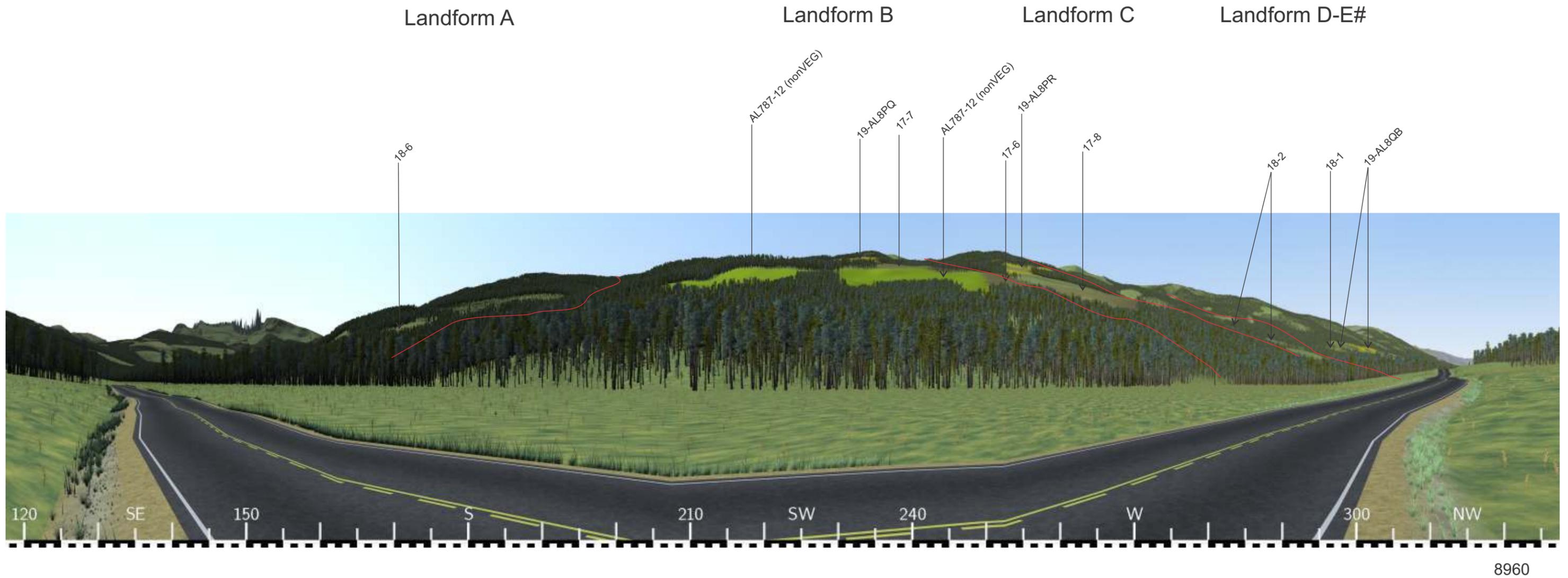
Bare Ground Rendering for Orientation and Further Information.
See Viewpoints 9 and 10 for detailed information with forest cover.

Albreda 2018 - VP 8 - 1730.3



See viewpoint 10 for Percent Alteration analysis.

Albreda 2018 - VP 9 - 1730.4



Albreda 2018 - VP 10 - 1734/275 - Snowmobile Lot



Pit Road Junction with Highway 5

VP 1733 Photo by RDI 2015

Existing AL787



VP 1734.5 Photo by RDI 2015

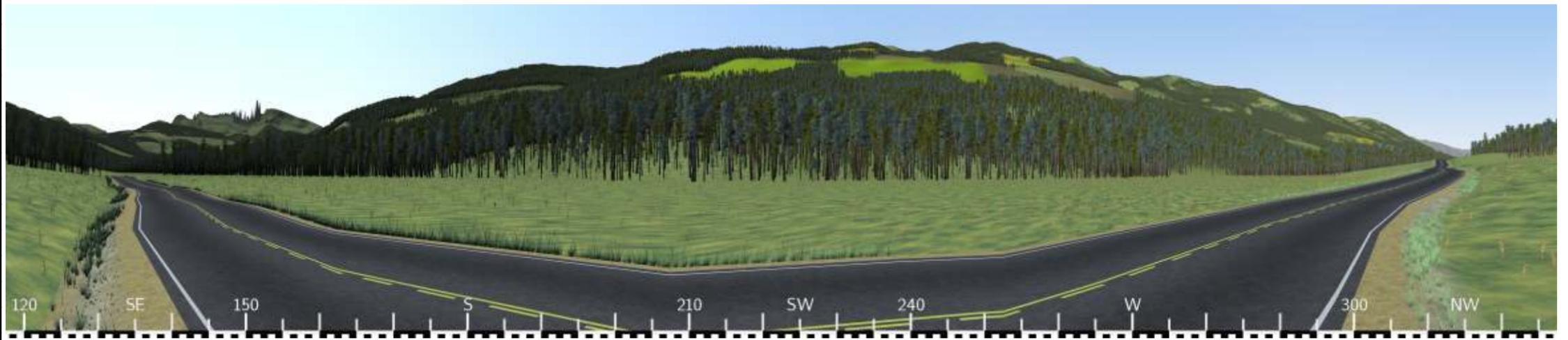


VP 1734.5 Photo by RDI 2015

Albreda 2018 - VP 10 - 1734/275 - Snowmobile Lot

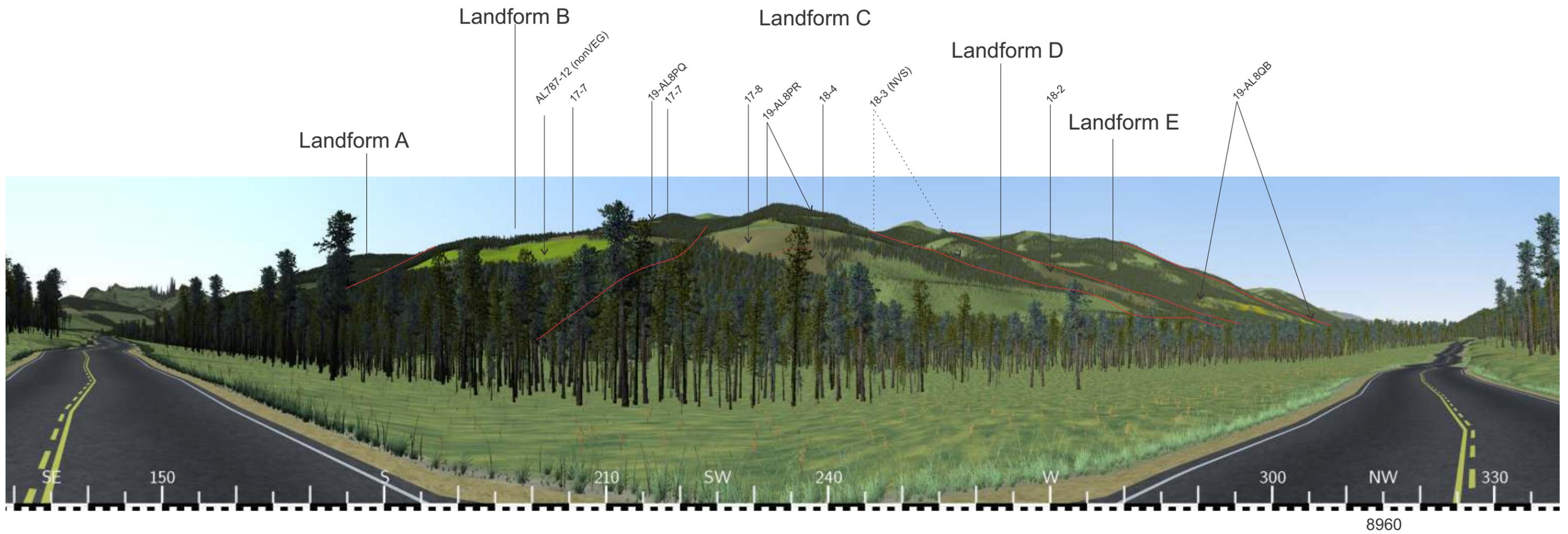
NAME	AREA2	%Alt
Landform A	152653.00	
18-6	304.23	0.20%
Sum Landform A	304.23	0.20%
Landform B	799563.00	
12-AL787	10356.17	1.30%
12-AL787	17857.19	2.23%
17-7	2122.97	0.27%
17-6	3393.36	0.42%
19-AL8PQ	74.41	0.01%
19-AL8PQ	125.52	0.02%
19-AL8PQ	252.23	0.03%
19-AL8PQ	7.65	0.00%
19-AL8PQ	66.42	0.01%
Sum Landform B	34255.92	4.28%
Sum Alt New B	6042.56	0.76%
Landform C*	77279.50	
17-8	7626.14	9.87%
19-AL8PR	694.13	0.90%
19-AL8PR	415.01	0.54%
19-AL8PR	261.95	0.34%
Sum Landform C*	8997.23	11.64%
Landform D	41669.50	
18-2	84.44	0.20%
18-2	440.06	1.06%
Sum Landform D	524.50	1.26%
Landform E	55665.40	
18-1	127.27	0.23%
19-AL8QB	183.00	0.33%
19-AL8QB	32.99	0.06%
19-AL8QB	884.53	1.59%
19-AL8QB	17.65	0.03%
19-AL8QB	17.99	0.03%
Sum Landform E	1263.43	2.27%
Landform B & C	876842.50	
Sum Alt B&C	43253.15	4.93%
Sum Alt New B&C	15039.79	1.72%

*Landform C is narrow in this oblique view towards it. Cutblock 17-8 in Landform C is 9.87% alteration, exceeding the VQO of Partial Retention. See Viewpoint 11 for more direct view of Landform C (3.8% Alteration). Combining Landforms B and C together for purposes of percent alteration calculation brings overall B&C percent alteration well within the limits of Partial Retention VQC.



See notes regarding 17-8 in Landform C in the Percent Alteration page for Viewpoint 11

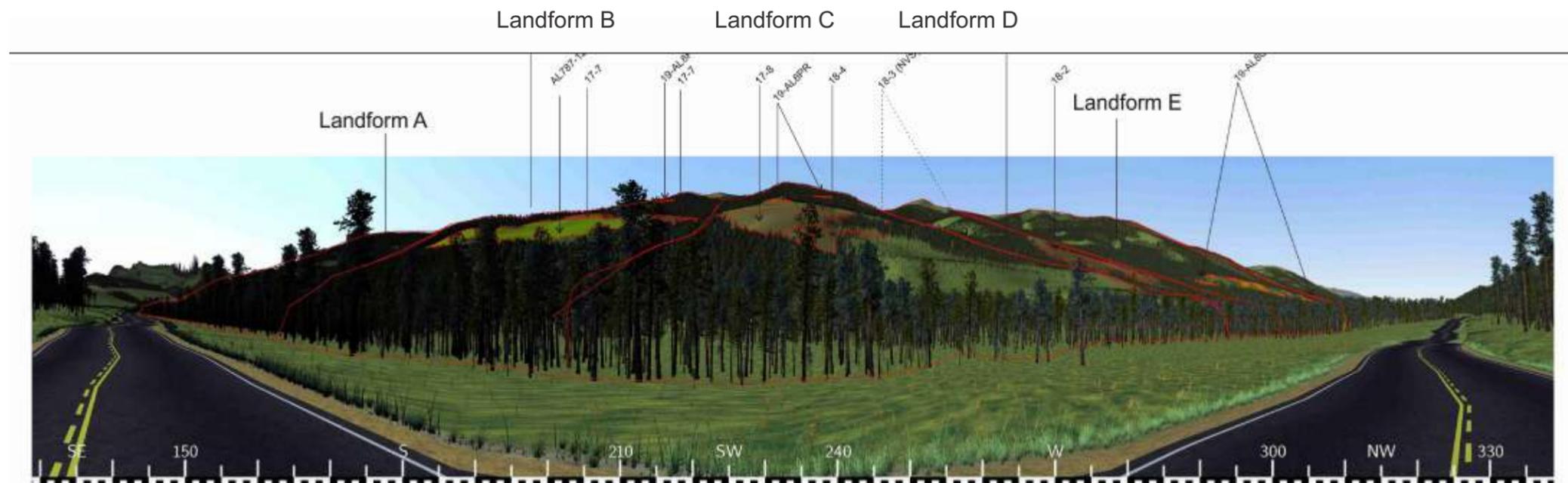
Albreda 2018 - VP 10 - 1734/275 - Snowmobile Lot - Percent Alteration



Albreda 2018 - VP 11 - 1733.1

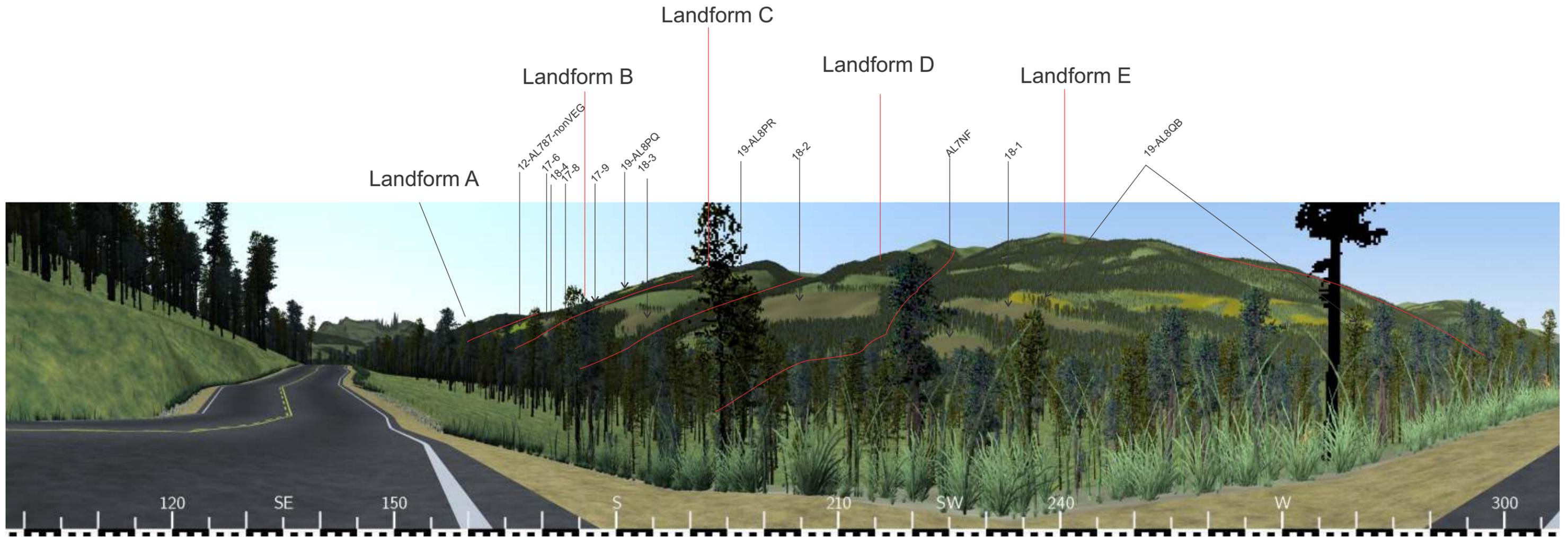
Percent Alteration Viewpoint 11		
NAME	AREA2	% ALT
Landform A	101514.63	0.00%
Sum Landform A	0.00	0.00%
Landform B	402097.19	
AL787-12	2424.70	0.60%
AL787-12	15140.93	3.77%
17-7	1586.75	0.39%
17-7	1478.05	0.37%
19-AL8PQ	150.98	0.04%
Sum Landform B	20781.40	5.17%
Landform C	800385.44	
17-8	20116.12	2.51%
17-8	43.99	0.01%
18-4	9772.50	1.22%
19-AL8PR	176.39	0.02%
19-AL8PR	281.77	0.04%
Sum Landform C	30390.77	3.80%
Landform D*	76861.02	
18-2	7532.59	9.80%
Sum Landform D*	7532.59	9.80%
Landform E	125234.57	
19-AL8QB	502.54	0.40%
19-AL8QB	150.58	0.12%
19-AL8QB	1760.72	1.41%
19-AL8QB	222.98	0.18%
19-AL8QB	194.86	0.16%
Sum Landform E	2831.67	2.26%
Landforms C & D	877246.46	
Sum Landform C & D	37923.36	4.32%

*Landform D is narrow in this oblique view towards it. See Viewpoint 12 for a more direct view of Landform D (8.7% alteration in from VP 12 vs 9.8% alone in Viewpoint 11 - indicating VQO exceeded from both viewpoints). Combining Landforms C and D together for percent alteration calculation brings overall C+D percent alteration well within the limits of Partial Retention VQC. However, individual numbers suggest reduction in scale of 18-2 with in-block tree retention is indicated.



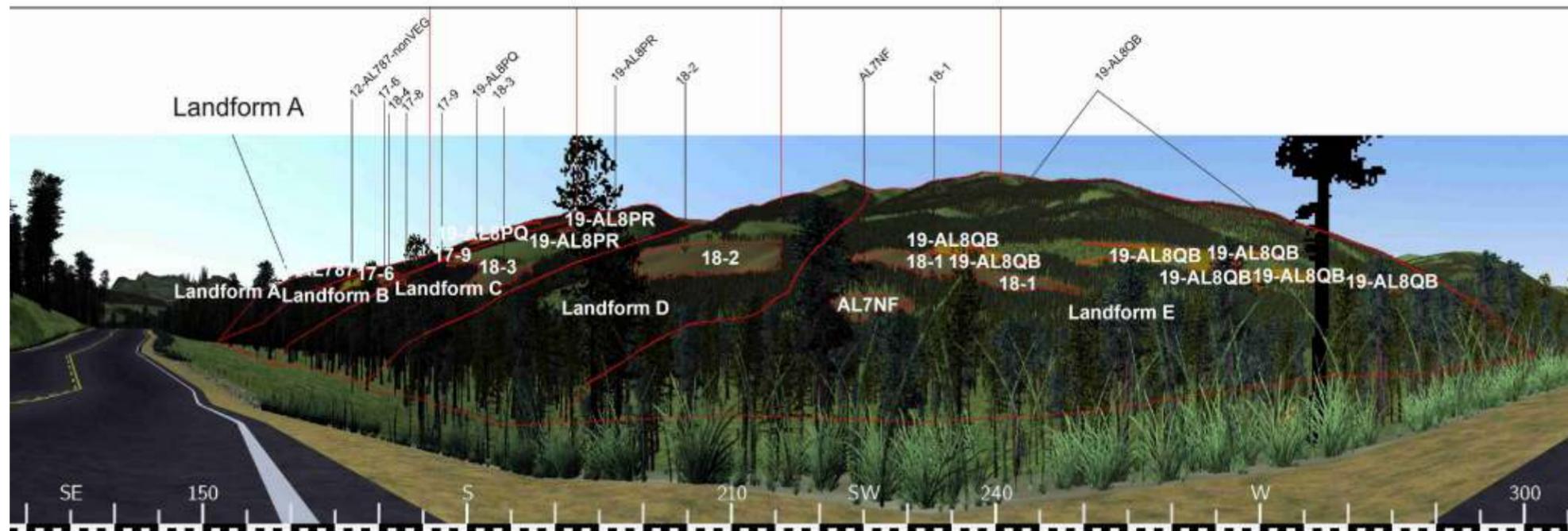
Landform C meets the Percent Alteration limits with a combined 3.8%. However, the concentration of all of the alteration into the upper part of the landform, and all directly adjacent to each other causes the total alteration to look moderate to large in scale. Consider some leave patches to break up the concentration somewhat, mainly in 17-8. This should help the appearance of 17-8 in Viewpoint 10.

Albreda 2018 - VP 11 - 1733.1 - Percent Alteration



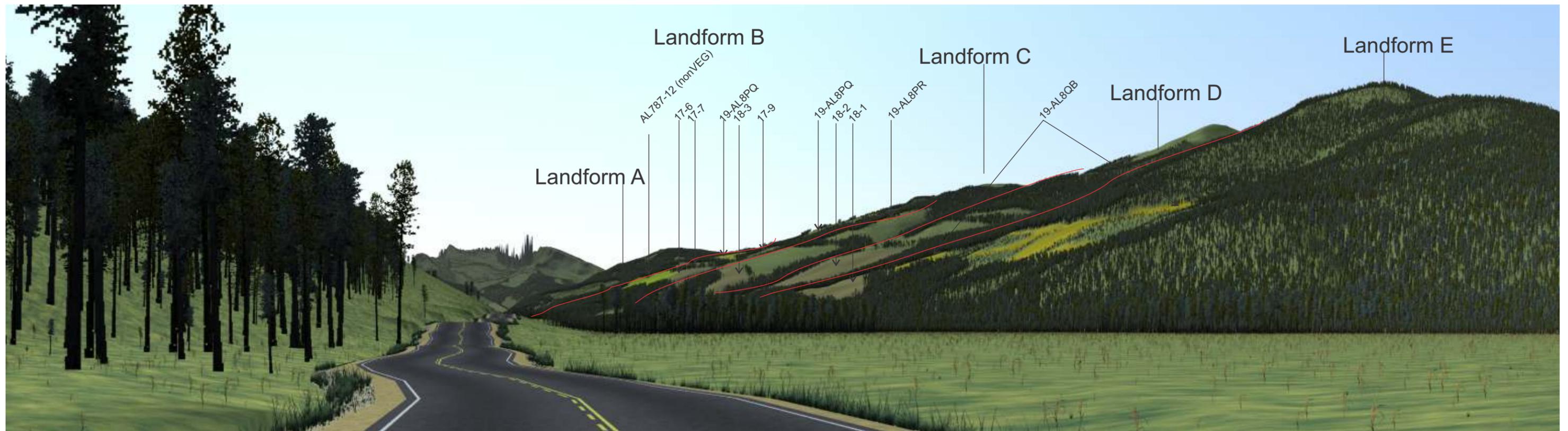
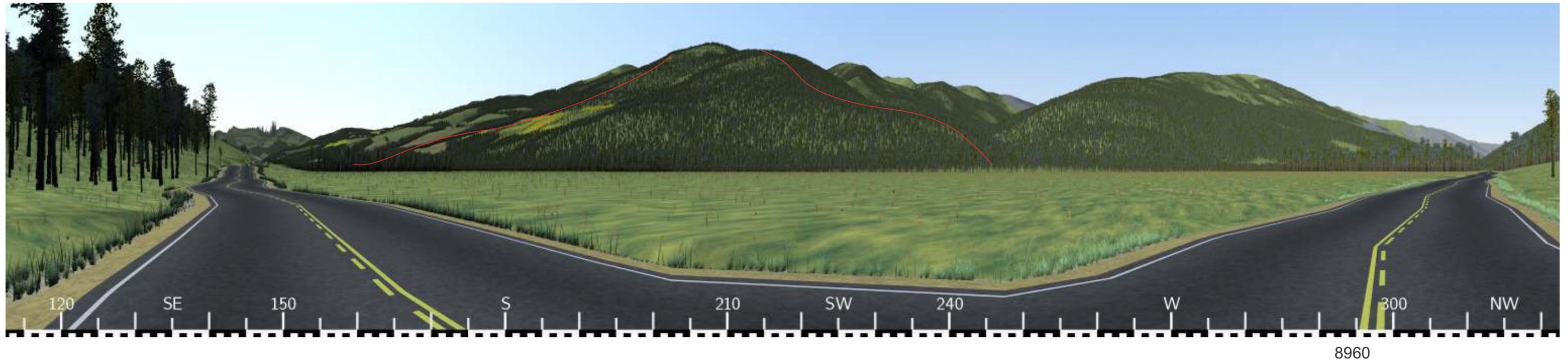
Albreda 2018 - VP 12 - 1733 - near rest-stop

Percent Alteration Viewpoint 12		
NAME	AREA2	%Alt
Landform A	17462.34	
Sum Landform A	0.00	0.00%
Landform B	49054.94	
12-AL787	250.52	0.51%
12-AL787	913.78	1.86%
17-6	1070.78	2.18%
18-4	195.39	0.40%
18-4	171.40	0.35%
17-9	205.88	0.42%
19-AL8PQ	475.33	0.97%
19-AL8PQ	235.32	0.48%
Sum Landform B	3518.40	7.17%
Landform C	140854.63	
18-3	7480.14	5.31%
19-AL8PR	376.90	0.27%
19-AL8PR	429.56	0.30%
Sum Landform C	8286.60	5.88%
Landform D*	320466.20	
18-2	27894.89	8.70%
Sum Landform D*	27894.89	8.70%
Landform E	996024.69	
18-1	11086.35	1.11%
18-1	7212.98	0.72%
AL7NF	8303.53	0.83%
19-AL8QB	2600.33	0.26%
19-AL8QB	1860.64	0.19%
19-AL8QB	8014.26	0.80%
19-AL8QB	1151.44	0.12%
19-AL8QB	1750.83	0.18%
19-AL8QB	2853.84	0.29%
19-AL8QB	474.71	0.05%
19-AL8QB	144.73	0.01%
Sum Landform E*	45453.63	4.56%
Landform D&E	1316490.88	
Sum Alt D&E	73348.52	5.57%



Albreda 2018 - VP 12 - 1733 - Percent Alteration

*Landform D is somewhat narrow in this oblique view towards it. Cutblock 18-2 is 8.7% of the landform on its own. See Viewpoint 11 for a more direct view of Landform D (9.0% Alteration - indicating VQO exceeded from both viewpoints). Combining Landforms D and E together for percent alteration calculation brings overall D+E percent alteration within the limits of Partial Retention VQC. However, individual numbers suggest both reduction in scale and refinement of geometric shape of 18-2 is required.



See Viewpoint 12 for Percent Alteration

4596/1260

