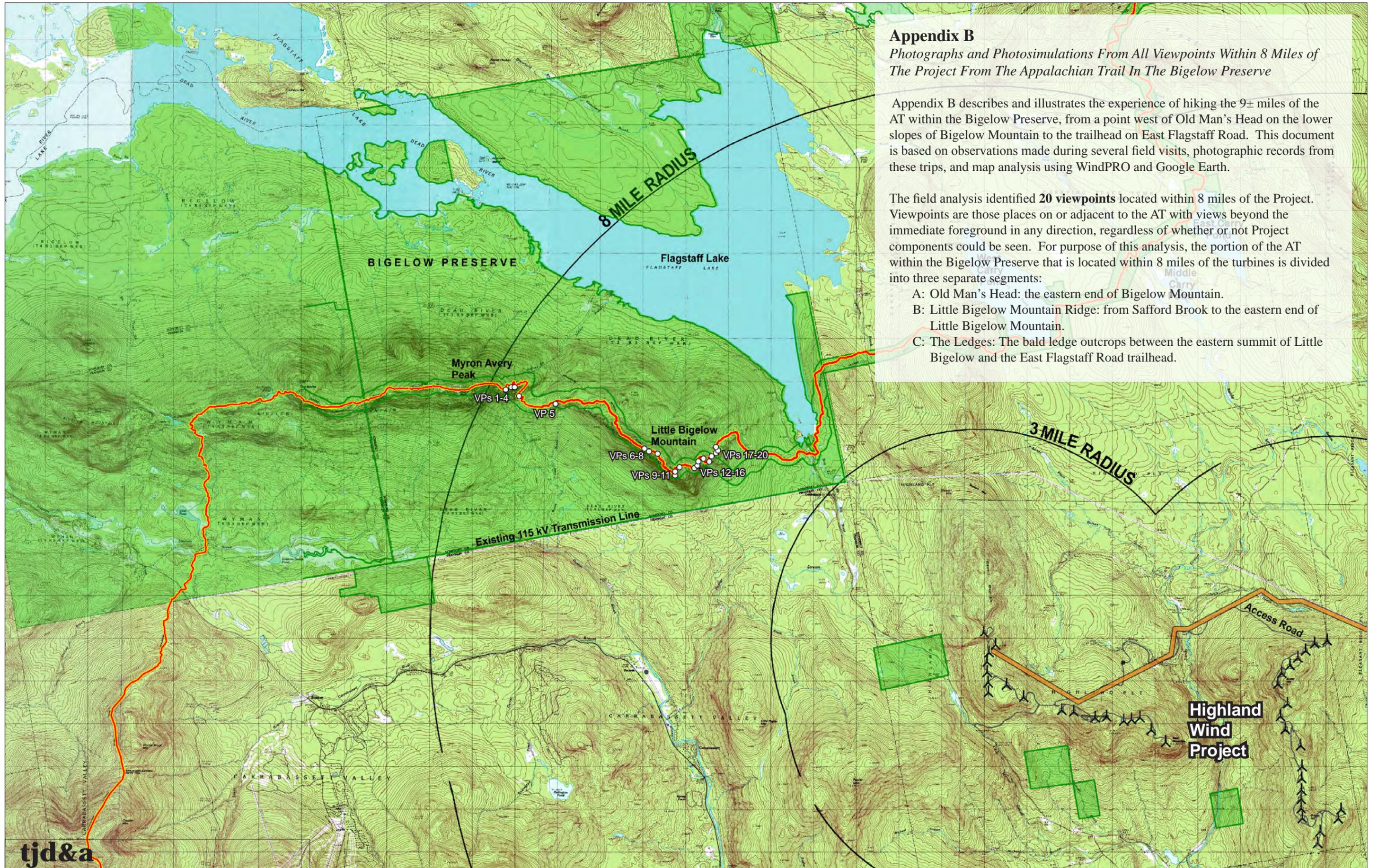


Appendix B: Photographs and Photosimulations From All Viewpoints Within 8 Miles
Of The Project From The Appalachian Trail In The Bigelow Preserve



Appendix B

Photographs and Photosimulations From All Viewpoints Within 8 Miles of The Project From The Appalachian Trail In The Bigelow Preserve

Appendix B describes and illustrates the experience of hiking the 9± miles of the AT within the Bigelow Preserve, from a point west of Old Man's Head on the lower slopes of Bigelow Mountain to the trailhead on East Flagstaff Road. This document is based on observations made during several field visits, photographic records from these trips, and map analysis using WindPRO and Google Earth.

The field analysis identified **20 viewpoints** located within 8 miles of the Project. Viewpoints are those places on or adjacent to the AT with views beyond the immediate foreground in any direction, regardless of whether or not Project components could be seen. For purpose of this analysis, the portion of the AT within the Bigelow Preserve that is located within 8 miles of the turbines is divided into three separate segments:

- A: Old Man's Head: the eastern end of Bigelow Mountain.
- B: Little Bigelow Mountain Ridge: from Safford Brook to the eastern end of Little Bigelow Mountain.
- C: The Ledges: The bald ledge outcrops between the eastern summit of Little Bigelow and the East Flagstaff Road trailhead.

SUMMARY OF VISIBILITY AND DISTANCES OF TURBINES LOCATED WITHIN 8 MILES OF VIEWPOINTS ALONG THE AT

The following table summarizes the visibility of the Project turbines located within 8 miles of each of the 20 viewpoints along the Appalachian Trail (AT) within the Bigelow Preserve. Distances in miles from the viewpoint to the nearest turbine(s) are also provided.

Of the 20 viewpoints, the Project would be visible from 8 of them, including either open, filtered, or heavily filtered views. Of the 39 turbines proposed for the Highland Wind Project, a maximum of 18 would be visible from any one viewpoint on the AT within 8 miles.

KEY

5.75 **Distance:** Horizontal distance in miles between viewpoint and nearest turbine.¹

5.75 **No View:** Turbines within 8 miles but blocked by topography and/or vegetation.

5.75 **Heavily Filtered View:** Few turbines seen from any one location within a viewpoint. Individual turbines may frequently be partially obscured by foreground vegetation.

5.75 **Filtered View:** Turbines visible through individual trees. Individual turbines may be partially obscured by foreground vegetation.

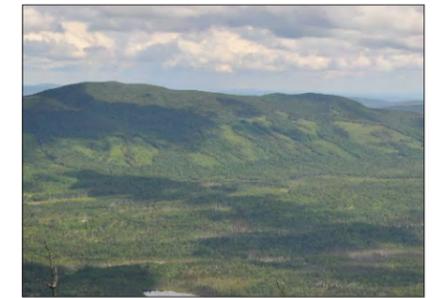
5.75 **Open View:** Turbines visible.



Heavily Filtered View
Very short openings in the foreground vegetation; most of view obscured by dense growth.



Filtered View
Foreground vegetation still allows distinct views of midground and/or background.



Open View
Few, if any trees in immediate foreground to interfere with view.

Turbines	SEGMENT A: OLD MAN'S HEAD				SEGMENT B: LITTLE BIGELOW MOUNTAIN RIDGE								SEGMENT C: LEDGES BELOW LITTLE BIGELOW MOUNTAIN										
	VP 1	VP 2	VP 3	VP 4	VP 5	VP 6	VP 7	VP 8	VP 9				VP 10 ₃	VP 11	VP 12	VP 13	VP 14	VP 15	VP 16	VP 17	VP 18	VP 19 ₄	VP 20
									9A	9B ₂	9C	9D											
W1	7.74	7.71	7.67	7.56	7.04	5.62	5.54	5.42	5.04	5.04	5.04	5.04	5.04	4.99	4.82	4.80	4.81	4.75	4.69	4.69	4.68	4.67	4.68
W2		7.97	7.94	7.82	7.31	5.88	5.80	5.69	5.31	5.31	5.30	5.30	5.31	5.26	5.10	5.07	5.07	5.03	4.96	4.96	4.95	4.94	4.96
W3		7.96	7.93	7.81	7.31	5.88	5.80	5.69	5.30	5.30	5.29	5.29	5.30	5.26	5.09	5.07	5.08	5.03	4.96	4.97	4.96	4.95	4.96
W4			7.97	7.85	7.35	5.92	5.84	5.73	5.35	5.35	5.34	5.34	5.35	5.30	5.14	5.12	5.13	5.08	5.02	5.02	5.02	5.01	5.02
W5				7.93	7.43	6.01	5.92	5.82	5.43	5.43	5.42	5.42	5.43	5.39	5.23	5.20	5.22	5.18	5.11	5.12	5.11	5.10	5.12
W6					7.53	6.11	6.02	5.92	5.53	5.53	5.52	5.52	5.52	5.49	5.33	5.31	5.32	5.28	5.22	5.22	5.22	5.21	5.23
W7					7.63	6.21	6.12	6.02	5.62	5.62	5.61	5.61	5.63	5.59	5.44	5.42	5.44	5.39	5.33	5.34	5.33	5.33	5.35
W8					7.76	6.35	6.26	6.15	5.77	5.77	5.76	5.76	5.77	5.72	5.56	5.54	5.55	5.51	5.45	5.45	5.44	5.44	5.46
W9						6.65	6.57	6.46	6.07	6.07	6.06	6.06	6.07	6.03	5.87	5.85	5.86	5.82	5.75	5.76	5.75	5.74	5.76
W10						7.22	7.13	7.03	6.64	6.64	6.63	6.63	6.64	6.60	6.44	6.42	6.42	6.38	6.31	6.30	6.31	6.30	6.31
W11						7.38	7.29	7.18	6.80	6.80	6.79	6.79	6.80	6.75	6.59	6.56	6.57	6.53	6.46	6.46	6.46	6.45	6.46
W12						7.69	7.60	7.50	7.11	7.11	7.10	7.10	7.11	7.06	6.90	6.88	6.89	6.84	6.77	6.77	6.76	6.76	6.77
W13						7.80	7.71	7.60	7.23	7.23	7.22	7.22	7.22	7.27	7.01	6.98	6.99	6.94	6.87	6.87	6.86	6.85	6.87
W14							7.96	7.85	7.47	7.47	7.46	7.46	7.46	7.42	7.25	7.23	7.23	7.18	7.12	7.11	7.11	7.10	7.11
W15								7.98	7.60	7.60	7.59	7.59	7.59	7.55	7.38	7.35	7.36	7.31	7.24	7.24	7.23	7.22	7.23
W16									7.73	7.73	7.72	7.72	7.72	7.67	7.50	7.47	7.48	7.43	7.36	7.36	7.35	7.33	7.35
W17									7.92	7.92	7.91	7.91	7.91	7.86	7.70	7.67	7.67	7.62	7.55	7.56	7.54	7.53	7.54
W18															7.94	7.91	7.92	7.86	7.80	7.80	7.79	7.78	7.79

NOTES

- 1 If any part of a turbine within 8 miles of a viewpoint is seen, the turbine is counted as visible.
- 2 At Viewpoint 9B, while the computer model indicates that 8± turbines within 8 miles may be visible, dense vegetation in the immediate foreground would prevent views of all but 4± turbines.
- 3 At Viewpoint 10, while the computer model indicates that up to 17 turbines within 8 miles may be visible, dense vegetation in the immediate foreground would prevent views of all but 9± turbines in most locations.
- 4 At Viewpoint 19, while the computer model indicates that 13± turbines within 8 miles may be visible, dense vegetation in the immediate foreground would prevent views of all but 7± turbines.

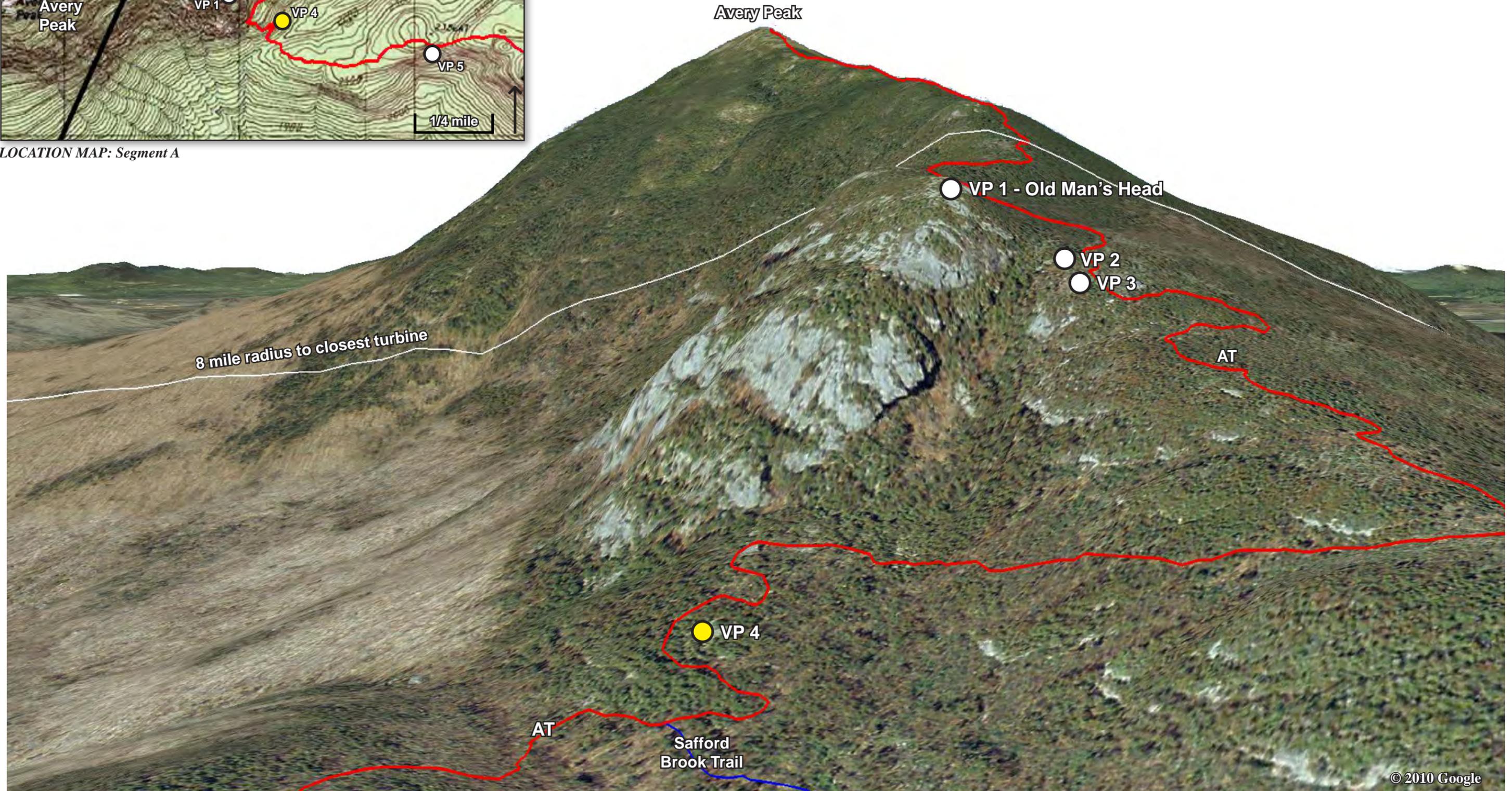


LOCATION MAP: Segment A

- LEGEND**
- Viewpoint with open view of Project within 8 miles
 - Viewpoint with filtered or heavily filtered view of Project within 8 miles
 - Viewpoint with no view of Project, or visible turbines >8 miles

SEGMENT A: OLD MAN'S HEAD

The first segment of the Appalachian Trail located within 8 miles of any turbine begins at a point west of Old Man's Head (at the outermost boundary of the 8-mile radius from the nearest turbine) and continues to the Safford Brook Trail. Segment A has 4 viewpoints, of which one (Viewpoint 4) has a view of the Project within 8 miles.





A portion of the panoramic view looking northeast to southeast from Old Man's Head toward Little Bigelow Mountain. Photograph taken on 6/25/10 at 3:01pm.

VIEWPOINT 1 (No turbines visible within 8 miles)

Description

Old Man's Head is a series of bald islands set among the spruce/fir forest at the top of a sheer rock face overlooking Little Bigelow Mountain. These rock outcrops occupy an area approximately 40' x 60'. The overlook is 300± feet south of the Appalachian Trail; a wooden sign on the AT directs hikers to "Old Man's Head, 0.1 miles, Excellent View." The sign is labeled M.A.T.C. (Maine Appalachian Trail Club).

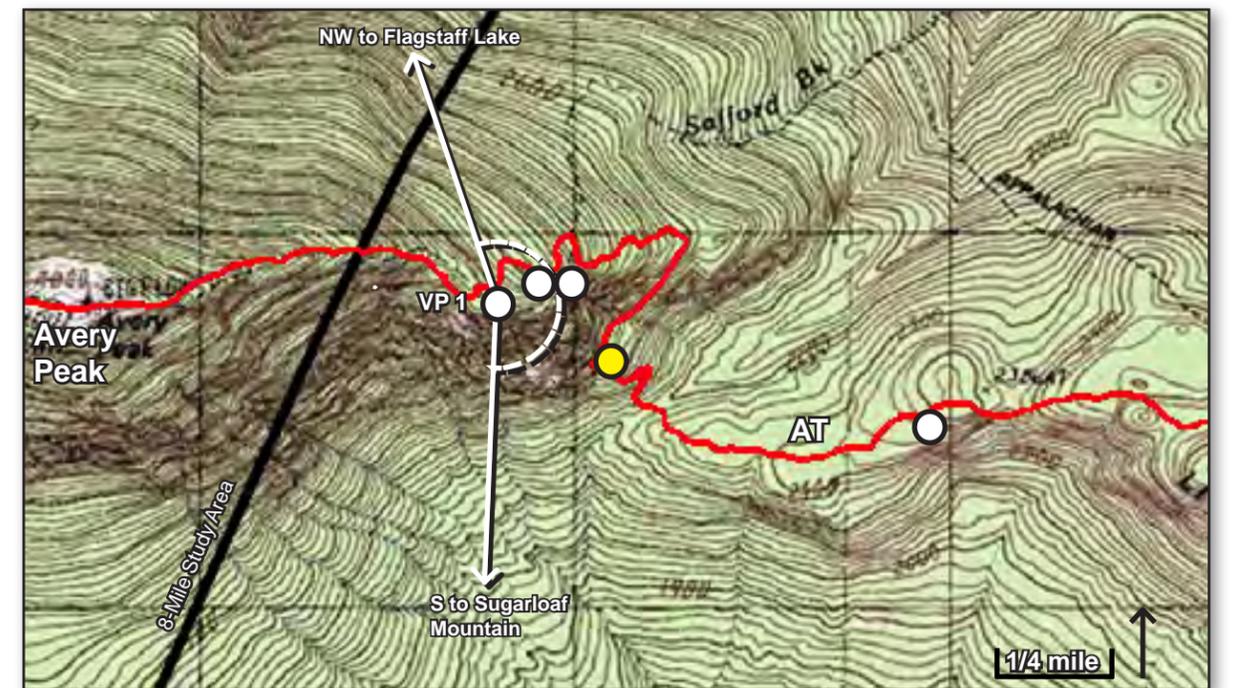
The view from Old Man's Head comprises several components. The most open and prominent view is to the north, where the panorama extends from Flagstaff Lake on the northwest to Little Bigelow Mountain and Little Poplar Mountain on the southeast. Little Bigelow, with its steep southerly face, offers a dramatic counterpoint to the rolling hills and less prominent mountains to the south. The top of Stewart Mountain can be seen in the distance behind Little Bigelow. The view to the south toward Sugarloaf is secondary, since it is filtered by foreground evergreen trees and lacks the water features of the broader northerly view.

Physical Characteristics

Viewpoint Location	Old Man's Head east of Avery Peak; 300'± south of the AT.
Elevation	3,151'± above MSL
Viewing Area	Several bald rock outcrops, each approximately 20' x 40'.
Angle of View	210°±
Type of View	Panoramic and filtered panoramic views.
Orientation	Northwest to south
Cultural Features in View	Sugarloaf Regional Airport; Route 27; Sugarloaf resort; Flagstaff Lake.

Highland Wind Project

Turbines Visible within 8 Miles	None
Closest Visible Turbine	8.01 miles



LOCATION MAP: Viewpoint 1



A portion of the panoramic view looking east from Viewpoint 2 toward Little Bigelow Mountain. Photograph taken on 6/25/10 at 2:35pm.

VIEWPOINT 2 (No turbines visible within 8 miles)

Description

A sign on the AT directs hikers to a viewpoint just off the trail. The view extends from the eastern end of Flagstaff Lake on the north to Little Bigelow Mountain on the east to Little Poplar Mountain on the southeast. The view is partially filtered by evergreen trees in the immediate foreground. Stewart Mountain is not visible from this viewpoint.



Sign marking trail to Viewpoint 2.



LOCATION MAP: Viewpoint 2

Physical Characteristics

Viewpoint Location	Northeast of Old Man's Head; 30'± off the AT.
Elevation	2,964'± above MSL.
Viewing Area	10' x 10' rock outcrop.
Angle of View	150°±
Type of View	Filtered panoramic view.
Orientation	North to southeast.
Cultural Features in View	Sugarloaf Regional Airport; Route 27; local roads; Flagstaff Lake.

Highland Wind Project

Turbines Visible within 8 Miles	None
Closest Visible Turbine	8.01 miles

Viewpoint 2 is 187'± below Old Man's Head, pictured left.

VIEWPOINT 3 (No view of Project)

Description

Another MATC sign on the AT directs hikers to a viewpoint 230'± off the trail. The view is primarily of Carrabassett Valley, focusing on the airport and the valley between Little Poplar Mountain on the east and the low hills on the west side of Route 27. The view is partially filtered by evergreen trees in the immediate foreground. The rock face of Old Man's Head blocks views toward Sugarloaf Mountain.



Sign marking trail to Viewpoint 3

Physical Characteristics

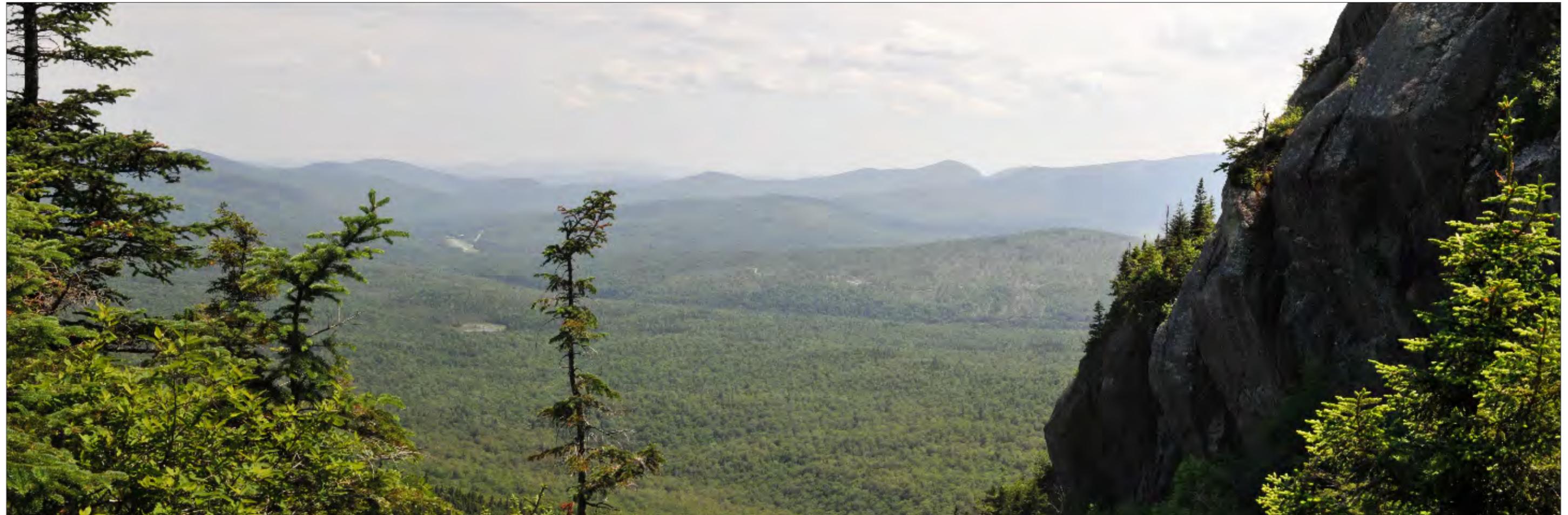
Viewpoint Location	Northeast of Old Man's Head; 230'± off the AT.
Elevation	2,796'± above MSL
Viewing Area	10' x 10' rock outcrop.
Angle of View	60°±
Type of View	Framed
Orientation	South
Cultural Features in View	Sugarloaf Regional Airport; Route 27; local residential roads; patterns from timber harvesting; 115 kV transmission line.

Highland Wind Project

Turbines Visible within 8 Miles	None
Closest Visible Turbine	N/A



LOCATION MAP: Viewpoint 3



VIEWPOINT 3: Framed view below Old Man's Head looking south toward Sugarloaf Regional Airport in Carrabassett Valley. There will be no turbines visible within 8 miles of this viewpoint.



A portion of the view looking east to southeast from Viewpoint 4 toward Little Bigelow Mountain. Photograph taken on 6/25/10 at 1:35pm.

VIEWPOINT 4 (One turbine visible within 8 miles)

Description

From Old Man’s Head going east, the final MATC viewpoint sign in the Bigelow Preserve for northbound hikers leads to Viewpoint 4, just off the trail. The steep south side of Little Bigelow Mountain is the focal point of this panoramic view, which extends from the southeastern tip of Flagstaff Lake (barely visible) to Sugarloaf Mountain. The open view of Little Bigelow extends over 40°, while evergreen trees in the foreground filter views to the north and south. The western end of Little Bigelow Mountain blocks views of Sugarloaf Regional Airport and Route 27.

One turbine will be visible within 8 miles from Viewpoint 4 at 7.93 miles. All others will be more than 8 miles away.

Physical Characteristics

Viewpoint Location	Eastern flank of Little Bigelow Mountain, between Old Man’s Head and Safford Brook Trail; 80’± off the AT.
Elevation	2,336’± above MSL
Viewing Area	10’ x 10’ rock outcrop.
Angle of View	170°±
Type of View	Open and filtered panoramic view.
Orientation	East to south
Cultural Features in View	Patterns from timber harvesting; Sugarloaf resort; filtered view of Flagstaff Lake.



Sign marking trail to Viewpoint 4.



LOCATION MAP: Viewpoint 4

Highland Wind Project

Turbines Visible within 8 miles	1
Closest Visible Turbine	7.93 miles
Arc of Visible Turbines within 8 miles	<1°
Percent of View	<0.5%



VIEWPOINT 4: Photosimulation of view toward Little Bigelow Mountain. One turbine would be 7.93 miles from this viewpoint; all others would be greater than 8 miles. Hold this image 21±" from eye to replicate actual view. If viewing on a computer screen, eye should be approximately 1.5 times the image width away from the screen. Photograph taken on 6/25/10 at 1:35pm. Lat: 45.145311°; Long: -70.256419°.



LEGEND

- Viewpoint with open view of Project within 8 miles
- Viewpoint with filtered or heavily filtered view of Project within 8 miles
- Viewpoint with no view of Project or visible turbines >8 miles

SEGMENT B: LITTLE BIGELOW MOUNTAIN RIDGE

The second segment of the AT within 8 miles of any turbine comprises the length of the Little Bigelow Mountain ridgeline, which runs in a general east-west orientation from Safford Brook to the eastern summit of the mountain. Most of the ridge trail is located in forestland, with limited views. Of the five viewpoints that were identified, the only view of the Project is from a point off the AT near the eastern peak of Little Bigelow Mountain (Viewpoint 9).

LOCATION MAP: Segment B



VIEWPOINT 5 (No view of Project)

Description

A small knoll at the top of the western peak of Little Bigelow Mountain affords a filtered view to the south. The view has four main points of interest: the southerly flank of Little Bigelow Mountain to the east; the broad valley west of Little Poplar Mountain to the southeast; Sugarloaf resort to the southwest; and Milton Avery Peak and Old Man's Head to the west. Views of the Project would be blocked by Little Bigelow Mountain.

Physical Characteristics

Viewpoint Location	Western end of Little Bigelow Mountain, 0.6 ± miles east of the Safford Brook Trail. Viewpoint is just off the AT.
Elevation	2,411' ± above MSL
Viewing Area	20' x 10' rock knoll.
Angle of View	180°±
Type of View	Filtered panoramic view.
Orientation	Southeast to northwest
Cultural Features in View	Patterns from timber harvesting; Sugarloaf resort.

Highland Wind Project

Turbines Visible within 8 Miles	None
Closest Visible Turbine	N/A



View east along Little Bigelow Mountain ridgeline. There will be no views of the Project. Photograph taken on 6/25/10 at 11:58am.



View west toward Avery Peak. There will be no turbines visible within 8 miles of this viewpoint.



LOCATION MAP: Viewpoint 5



A portion of the panoramic view northeast over the Little Bigelow Mountain ridgeline toward Flagstaff Lake. There will be no turbines visible within 8 miles of this viewpoint.

VIEWPOINT 6 (No view of Project)

Description

This opening along the AT provides a southeasterly view of the pronounced undulating hills that comprise the Little Bigelow Mountain ridgeline, along with a filtered view of the eastern portion of Flagstaff Lake to the northeast. Views of the Project would be blocked by Little Bigelow Mountain.

Physical Characteristics

Viewpoint Location	0.7 miles ± west of Little Bigelow Mountain eastern summit
Elevation	2,996' ± above MSL
Viewing Area	An informal opening along the Appalachian Trail, extending for 25' ±.
Angle of View	110° ±
Type of View	Filtered panoramic view.
Orientation	Northeast to south.
Cultural Features in View	Eastern end of Flagstaff Lake.



A portion of the panoramic view looking southeast along the steep southern face of Little Bigelow Mountain. Photographs taken on 6/18/10 at 4:03pm.

Highland Wind Project

Turbines Visible within 8 Miles	None
Closest Visible Turbine	N/A

LOCATION MAP:
Viewpoint 6





A portion of the panoramic view west to southeast. Sugarloaf resort and Sugarloaf Regional Airport are visible, even through the haze. There will be no turbines visible within 8 miles of this viewpoint. Photograph taken on 6/18/10 at 3:39pm.

VIEWPOINT 7 (No view of Project)

Description

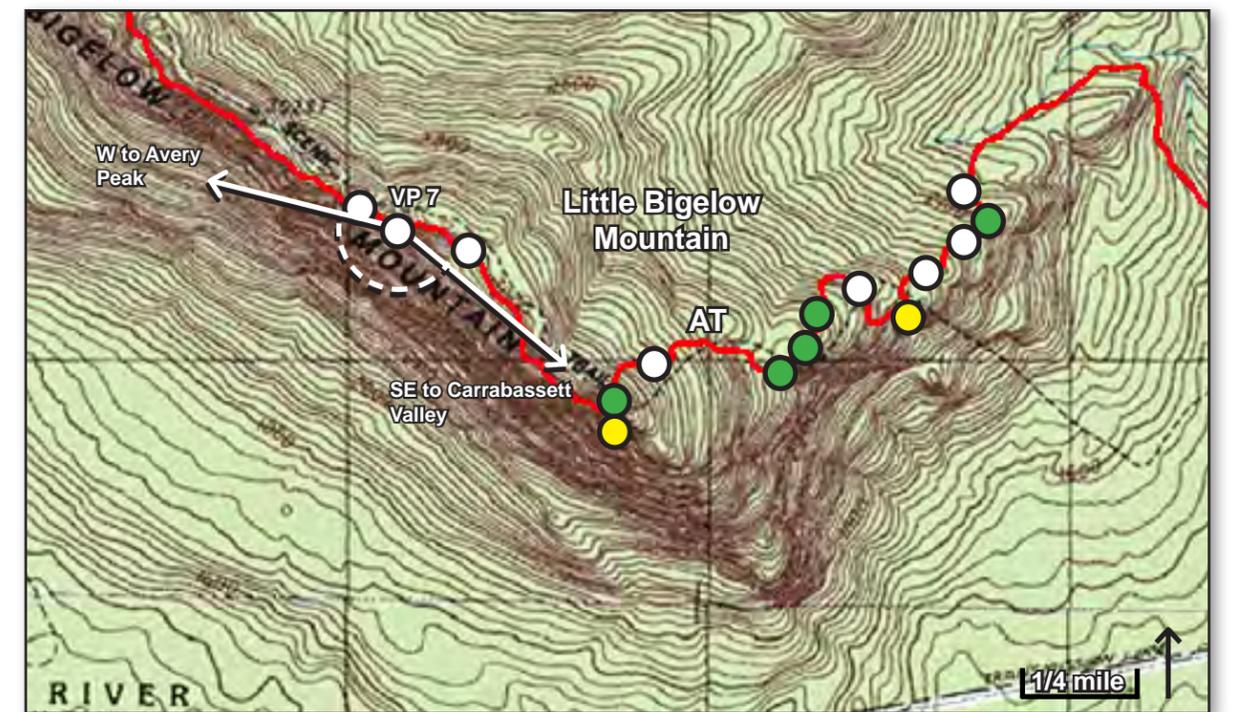
This is a dramatic panorama overlooking the south face of Little Bigelow Mountain, with full views of Sugarloaf Mountain and the high peaks of the Bigelow Range to the west. The viewer gets a good sense of the layered landscape to the west and south, with multiple ranges of mountains appearing as background ‘waves’. Views of the Project would be blocked by Little Bigelow Mountain.

Highland Wind Project

Turbines Visible within 8 Miles	None
Closest Visible Turbine	N/A

Physical Characteristics

Viewpoint Location	0.6 miles ± west of Little Bigelow Mountain eastern summit
Elevation	3,008' ± above MSL
Viewing Area	A relatively long (125' ±) opening along the Appalachian Trail, at a point where the trail is on the edge of the steep south face of Little Bigelow Mountain.
Angle of View	160° ±
Type of View	Panoramic view; effect is heightened by the sense of being on a cliff overlooking the valley below.
Orientation	Southeast to west.
Cultural Features in View	Sugarloaf resort; Sugarloaf Regional Airport; Route 27; patterns from timber harvesting; 115 kV transmission line.



LOCATION MAP: Viewpoint 7



Panoramic view southwest to south toward Sugarloaf resort. There will be no turbines visible within 8 miles of this viewpoint. Photograph taken on 6/18/10 at 3:24pm.

VIEWPOINT 8 (No view of Project)

Description

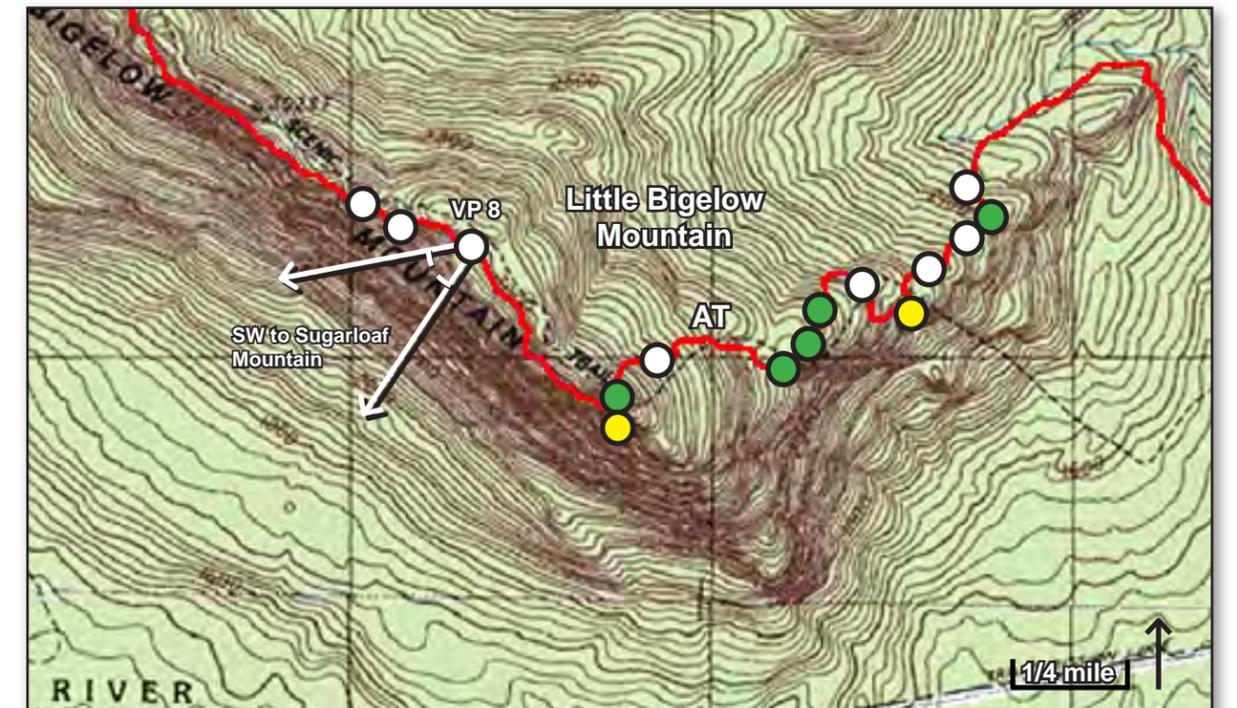
This is a brief opening in the dense evergreen forest that affords filtered views to Sugarloaf resort and the surrounding valley. Views of the Project would be blocked by Little Bigelow Mountain.

Physical Characteristics

Viewpoint Location	0.5 miles ± west of Little Bigelow Mountain eastern summit
Elevation	3,035' ± above MSL
Viewing Area	A 20-foot± partial opening in the Appalachian Trail.
Angle of View	45°±
Type of View	Filtered view.
Orientation	South to southwest.
Cultural Features in View	Sugarloaf resort; Route 27; patterns from timber harvesting.

Highland Wind Project

Turbines Visible within 8 Miles	None
Closest Visible Turbine	N/A



LOCATION MAP: Viewpoint 8

VIEWPOINT 9

Description

Viewpoint 9 comprises four distinct observation points (see map on right and descriptions on following pages).

Point A is on the AT at the base of a 10±' high ledge on the south side of the path. There are no views from the trail. See p. 15.

Point B is at the top of the rock outcrop, requiring a hiker to leave the trail. Observations by Portland Research Group suggest that this is the primary destination point for people hiking Little Bigelow Mountain. From this observation point there are outstanding views with three major focal points: the high peaks of the Bigelow Range to the west, dominated by the sharp profile of Myron Avery Peak; the eastern end of Flagstaff Lake to the north; and the Sugarloaf Mountain resort to the southwest. Views to the southeast and east (toward Stewart Mountain and the Project) are almost entirely blocked by trees. There will be a highly filtered view of up to 8 turbines to the southeast. See pp. 16 – 18.

Point C is a secondary observation point below Point B and provides the first open view of the Project. The dominant views are west toward the high peaks and southwest toward Sugarloaf Mountain, rather than southeast toward the Project. Due to the drop in elevation, there is no view of Flagstaff Lake. 17 turbines within 8 miles will be visible. See pp. 19 – 20.

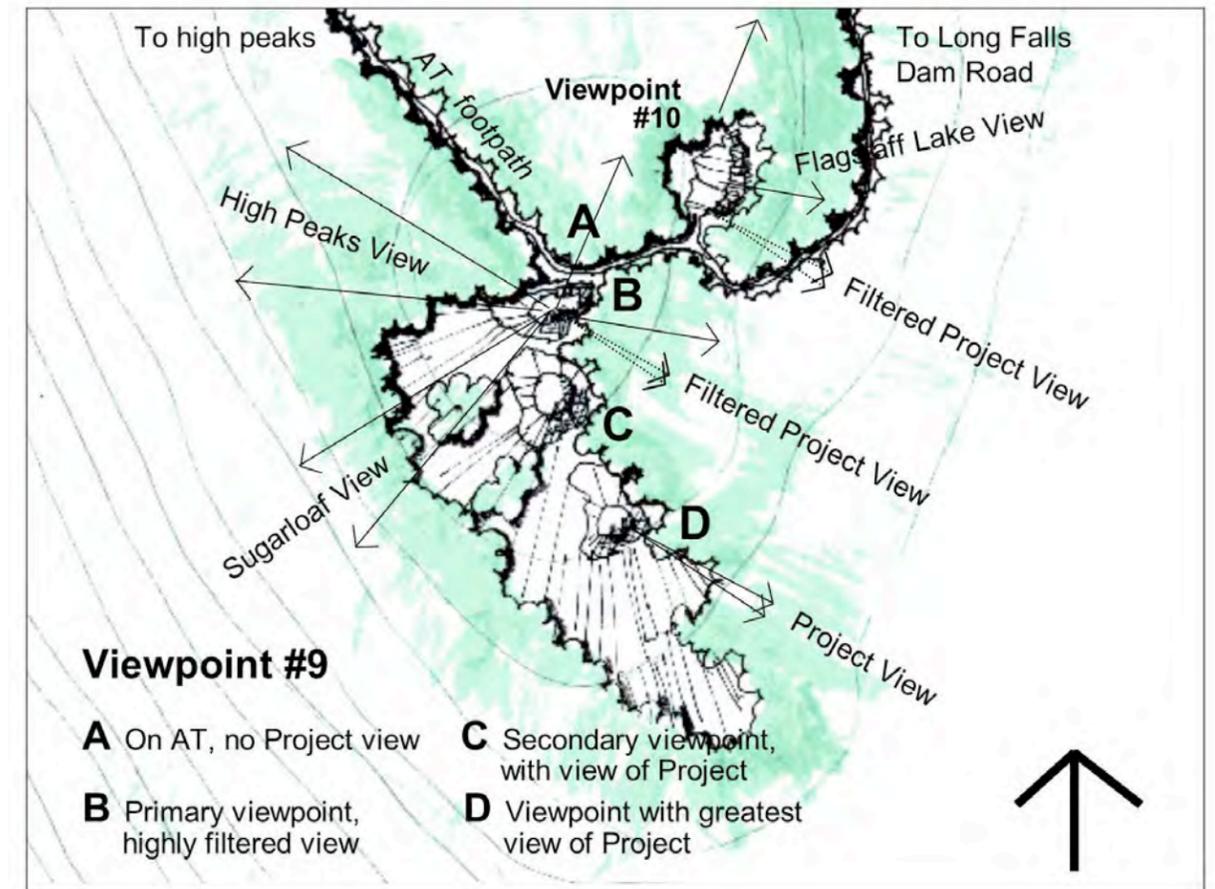
Point D is a lower ledge approximately 125' from Point B that affords the most open view of the Project. No hikers were observed by Portland Research Group venturing across the ledge to this lower observation point. 17 turbines within 8 miles will be visible. See pp. 21 – 23.

The view from Point D is naturally divided into four distinct components:

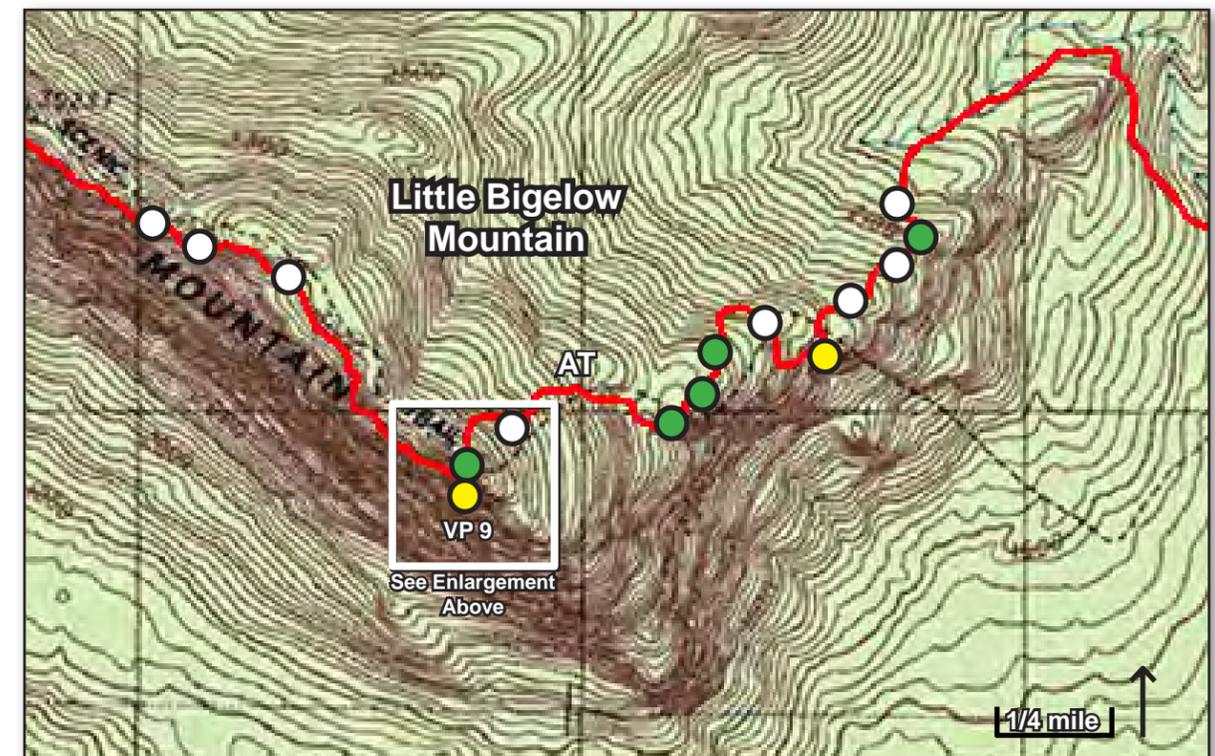
- The Bigelow Range to the west, including Cranberry Peak, The Horns, West Peak, and Myron Avery Peak. The view extends beyond the Bigelow Preserve to East Kennebago Mountain and other, more distant peaks to the west. This is the most dramatic and memorable of the components due to the angular profile of the Bigelow Range, the steepness of the terrain, the variety of landforms, and the general lack of cultural intrusions.
- Sugarloaf Mountain to the southwest, extending from Little Poplar Mountain on the east to Crocker Mountain on the west. This is the second-most distinctive component of the view. Sugarloaf Mountain is widely recognized as a major developed ski area and recreation resource. Viewers looking across the valley are able to see ski runs, major structures at

the base, communications towers on top of Sugarloaf Mountain, openings for the golf course, reflective roofs, the 115 kV transmission line that runs east-west through the valley, Sugarloaf Regional Airport, and patterns from timber harvesting on the north side of Route 27.

- Flagstaff Lake to the northeast. The highly configured shoreline of the lake, combined with the distant mountains in the background, creates a distinctive view that is partially filtered by foreground vegetation.
- Stewart Mountain to the east/southeast, including Poplar Mountain and the Long Falls Dam Road valley. This view is focused on Stewart Mountain and the V-shaped notch between it and Poplar Mountain where the turbines will be visible. Stewart is a lower, more rounded landform than either Sugarloaf or the Bigelow Range, with fewer pronounced mountains in the background. The most distinctive cultural feature on Stewart is the pattern resulting from recent timber harvesting that extend over most of the lower half of the west face. The other notable cultural feature is the 115 kV transmission line in the valley below the observer and over the north end of Stewart Mountain.



KEY MAP: Viewpoint 9



LOCATION MAP: Viewpoint 9

VIEWPOINT 9A (No view of Project)

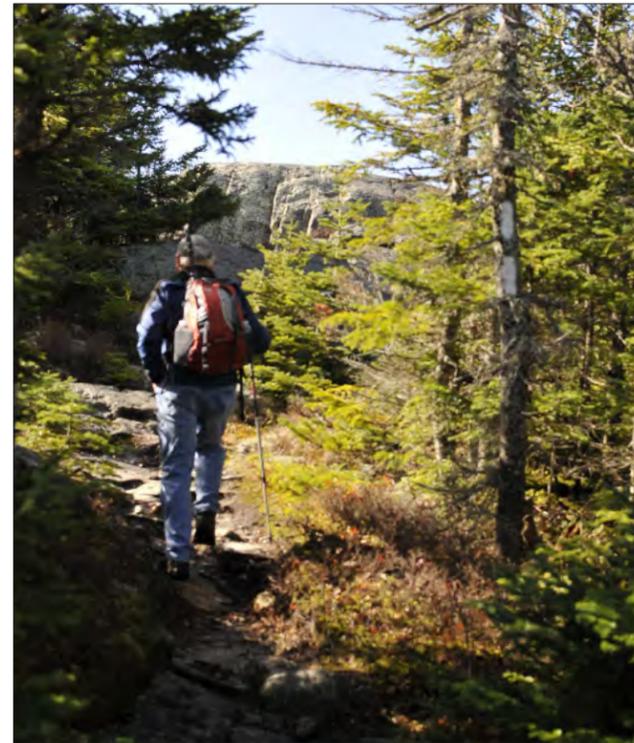
Viewpoint A is located on the AT footpath at the base of a pronounced ledge on the south side of the AT, at a point where the trail makes a 90-degree turn. Hikers have to leave the trail and climb a 10±' rock ledge to get to the panoramic view at Viewpoint B. Photographs taken on 10/28/10 at 11:55am.

Physical Characteristics

Viewpoint Location	9A: The eastern end of Little Bigelow Mountain, above the Blueberry Ledges
Elevation	3,040' ± above MSL
Viewing Area	The AT footpath
Angle of View	N/A
Type of View	Immediate foreground
Orientation	N/A
Cultural Features in View	N/A

Highland Wind Project

Turbines Visible within 8 Miles	None
Closest Visible Turbine	N/A



A south-bound hiker approaching Viewpoint A. There are no views beyond the immediate foreground.



An MATC marker indicating the summit of Little Bigelow Mountain. There are no signs indicating a viewpoint, as there are on the lower slopes of Bigelow Mountain below Avery Peak. (See Viewpoints 1, 2, 3, and 4.)



A 10±-foot ledge outcrop with a white blaze indicating the AT turns to the right (west). Viewpoint B is at the top of the rock.

VIEWPOINT 9B (Highly filtered view of 8± turbines within 8 miles)

Viewpoint 9B is on a rock ledge adjacent to the AT (see two photographs on previous page). Three major focal points dominate the view from this location: Avery Peak and the other high peaks of the Bigelow Range to the west; Sugarloaf Mountain to the southwest; and Flagstaff Lake to the north.

Views toward the Project would be highly filtered by intervening vegetation. The turbines would not be seen in the views looking north.

Physical Characteristics

Viewpoint Location	9B: The eastern end of Little Bigelow Mountain, above the Blueberry Ledges
Elevation	3,050'± above MSL
Viewing Area	Rock outcrop adjacent to and 10 feet above Viewpoint A on the AT.
Angle of View	300°±
Type of View	Panoramic view (Portion with turbines heavily filtered)
Orientation	Northeast to northwest
Cultural Features in View	Patterns from timber harvesting; Route 27; commercial development in Carrabassett Valley; Sugarloaf Regional Airport; Sugarloaf resort; 115 kV transmission line; Flagstaff Lake.

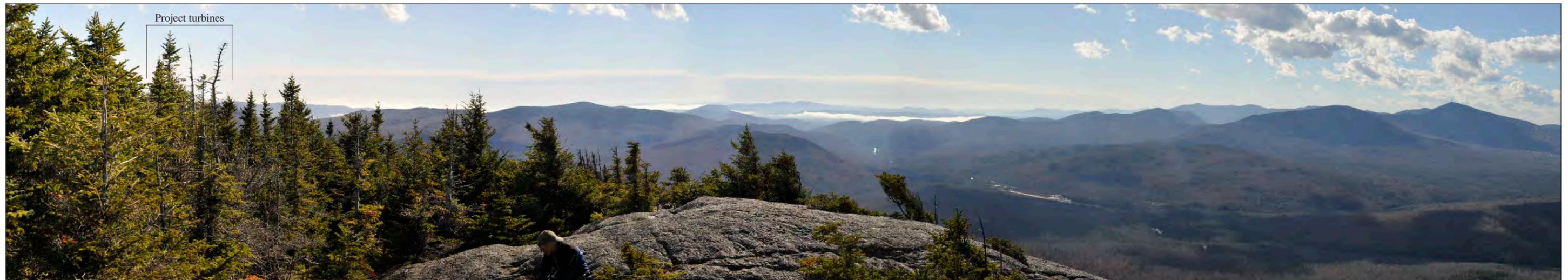
Highland Wind Project

Turbines Visible within 8 Miles	Up to 8 (heavily filtered) See Note
Closest Visible Turbine	5.04 miles
Arc of Turbines within 8 miles	8°±
Percent of View	2%± of total 300° view

NOTE: While the computer model indicates that up to 8 turbines within 8 miles may be visible, it is likely that foreground vegetation would prevent views of all but 3 or 4 turbines at any one time.



A portion of the panoramic view looking north toward the highly configured shoreline of Flagstaff Lake and Roundtop Mountain (right of center). There would be no views of the Project in this direction. All photographs taken on 10/28/10 at 12:08pm.



Continued panoramic view south toward Sugarloaf Mountain. Ledge outcrop in foreground is the location of Viewpoint 9C. Sugarloaf Regional Airport and Route 27 in Carrabassett Valley are visible in center of photograph. The majority of Stewart Mountain and the Project is blocked by vegetation. Portions of 8± turbines would be seen through the trees (left in photograph). See Photosimulation from Viewpoint 9B.

VIEWPOINT 9B, cont'd.



Continued panoramic view looking west. Two distinct focal points are visible: the high peaks of the Bigelow Range on the right and Sugarloaf Mountain on the left. The existing 115 kV transmission line is distinctly visible as a straight line in the broad valley between the two mountain ranges. There would be no views of the Project from this direction.



VIEWPOINT 9B: Normal view photosimulation of Project as seen from Viewpoint 9B. While the computer model indicates that up to 8 turbines within 8 miles may be visible from this viewpoint, dense vegetation in the immediate foreground will screen the view of all but 3 – 4 of them. Hold image approximately 21" from eye to replicate actual view. If viewing on a computer screen, eye should be approximately 1.5 times the image width away from the screen. Photograph taken on 10/28/10 at 12:08pm. Lat: 45.129833°; Long: -70.210579°.

VIEWPOINT 9C (17 turbines visible within 8 miles.)

Viewpoint 9C is located on a lower rock outcrop below point B. Views of the Project would be over the trees that blocked the view from Viewpont B. Due to the drop in elevation there are no views of Flagstaff Lake.

Highland Wind Project

Turbines Visible within 8 Miles	17
Closest Visible Turbine	5.04 miles
Arc of Turbines within 8 miles	8°±
Percent of View	4% of 200°± total panorama 13% of view component looking toward Stewart Mountain (60°±)

Physical Characteristics

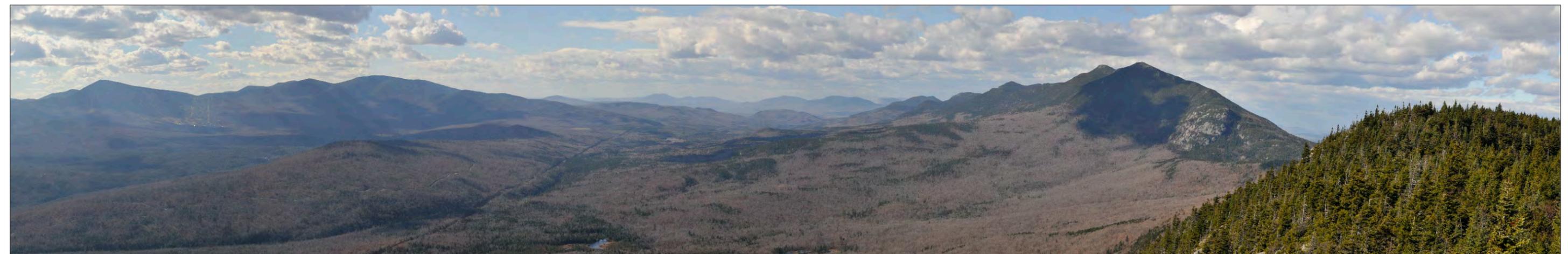
Viewpoint Location	9C: The eastern end of Little Bigelow Mountain, above the Blueberry Ledges
Elevation	3,040'± above MSL
Viewing Area	Rock outcrop below Viewpoint 9B
Angle of View	200°±
Type of View	Panoramic view
Orientation	Southeast to northwest
Cultural Features in View	Patterns from timber harvesting; Route 27; commercial development in Carrabassett Valley; Sugarloaf Regional Airport; Sugarloaf resort; 115 kV transmission line.



View looking northwest from Viewpoint 9C toward the rock outcrop adjacent to the AT (Viewpoint 9B). Photograph taken on 6/18/10 at 2:48pm.



A portion of the panoramic view southeast to south toward Stewart Mountain, Poplar Mountain, Little Poplar Mountain, and Carrabassett Valley. Sugarloaf Regional Airport is visible in the midground (right of center of photo). Project will be visible above the trees (left in photo). See Photosimulation from Viewpoint 9C on the following page. Both sets of photographs taken on 10/28/10 at 12:08pm.



Continued panoramic view looking south to west toward Sugarloaf Mountain and the high peaks on Bigelow Mountain. Existing 115 kV transmission line is seen to left of center in photo. There would be no views of the Project from this direction.



VIEWPOINT 9C: Normal view photosimulation of Project as seen from Viewpoint 9C. 17 turbines within 8 miles will be visible in the notch between Stewart Mountain and Poplar Mountain. Hold image approximately 21" from eye to replicate actual view. If viewing on a computer screen, eye should be approximately 1.5 times the image width away from the screen. Photograph taken on 10/28/10 at 12:08pm. Lat: 45.129754°; Long: -70.210557°.

VIEWPOINT 9D

(17 turbines will be visible within 8 miles)
Viewpoint 9D is the lowest level of the rock outcrops, approximately 125 feet from Viewpoint B.

Physical Characteristics

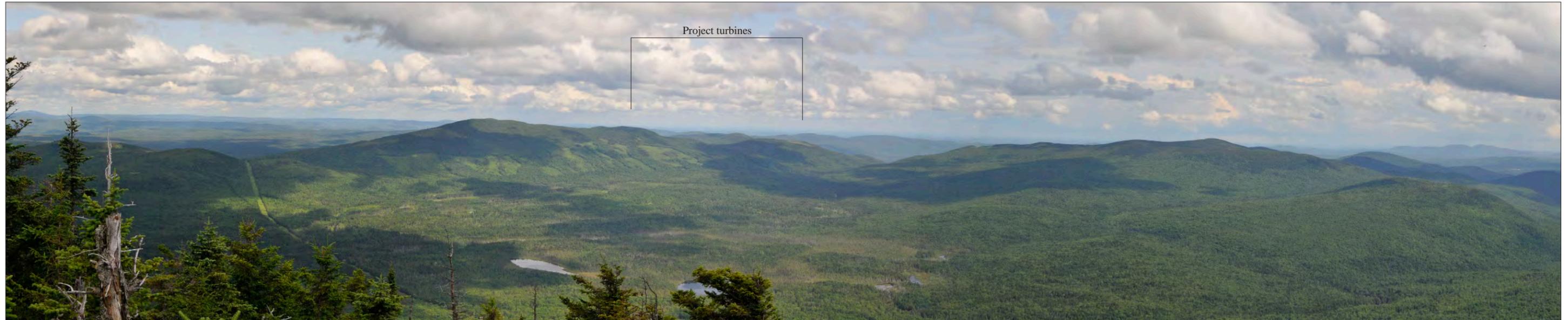
Viewpoint Location	9D: The eastern end of Little Bigelow Mountain, above the Blueberry Ledges
Elevation	3,010'± above MSL
Viewing Area	Rock outcrop below Viewpoint 9B
Angle of View	200°±
Type of View	Panoramic view

Physical Characteristics

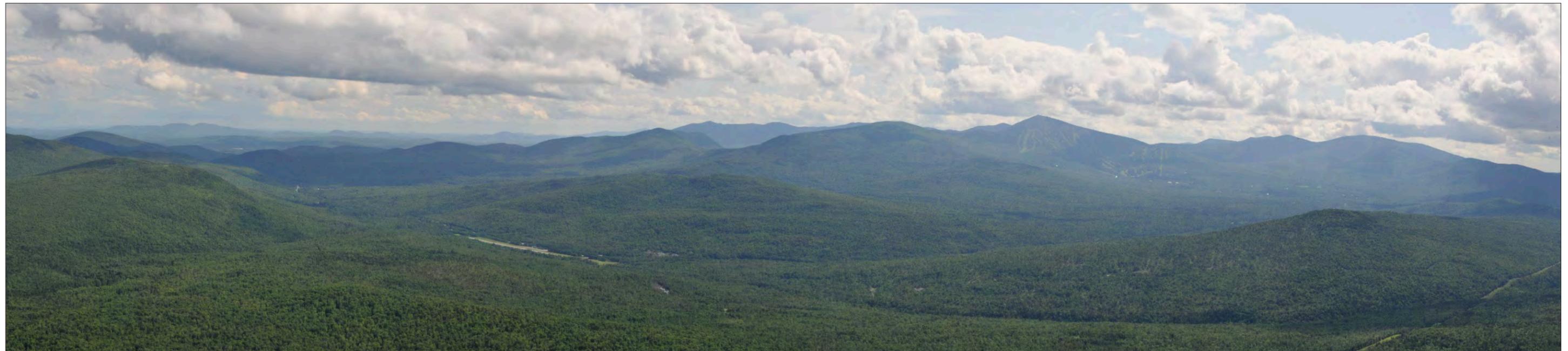
Orientation	Southeast to northwest.
Cultural Features in View	Patterns from timber harvesting; Route 27; commercial development in Carrabassett Valley; Sugarloaf Regional Airport; Sugarloaf resort; 115 kV transmission line.

Highland Wind Project

Turbines Visible within 8 Miles	17
Closest Visible Turbine	5.04 miles
Arc of Turbines within 8 miles	8°±
Percent of View	4% of 200°± total panorama 13% of view component looking toward Stewart Mountain (60°± view angle)

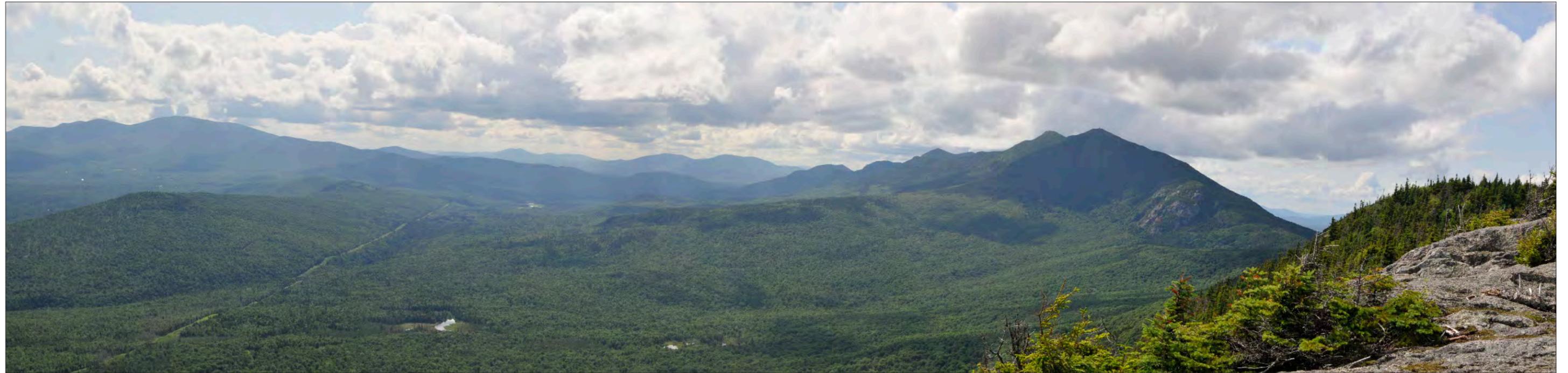


A portion of the panoramic view looking southeast toward Stewart Mountain and the Project location. View includes the existing 115 kV transmission line (left in photo) and recent cutting patterns on Stewart Mountain. Flagstaff Lake is not visible from this viewpoint. See Photosimulation from Viewpoint 9D. Photograph taken on 7/25/09 at 3:31pm.



Continued panoramic view south to southwest toward Poplar Mountain and Sugarloaf Mountain, the primary focal point in the southwest. Sugarloaf Regional Airport is visible in the midground (center of photo). Continuation of existing 115 kV transmission line is seen on right in photo. There would be no views of the Project from this direction.

VIEWPOINT 9D



Continued panoramic view looking west toward Avery Peak and the other peaks on Bigelow Mountain. Continuation of existing 115 kV transmission line is seen on right in Photo. There would be no views of the Project from this direction. Photograph taken on 7/25/09 at 3:31pm.



VIEWPOINT 9D: Normal view photosimulation of the Project as seen from Viewpoint 9D. 17 turbines within 8 miles would be visible. Hold image approximately 21" from eye to replicate actual view. If viewing on a computer screen, eye should be approximately 1.5 times the image width away from the screen. Photograph taken on 7/25/09 at 3:31pm. Lat: 45.129664°; Long: -70.210522°.

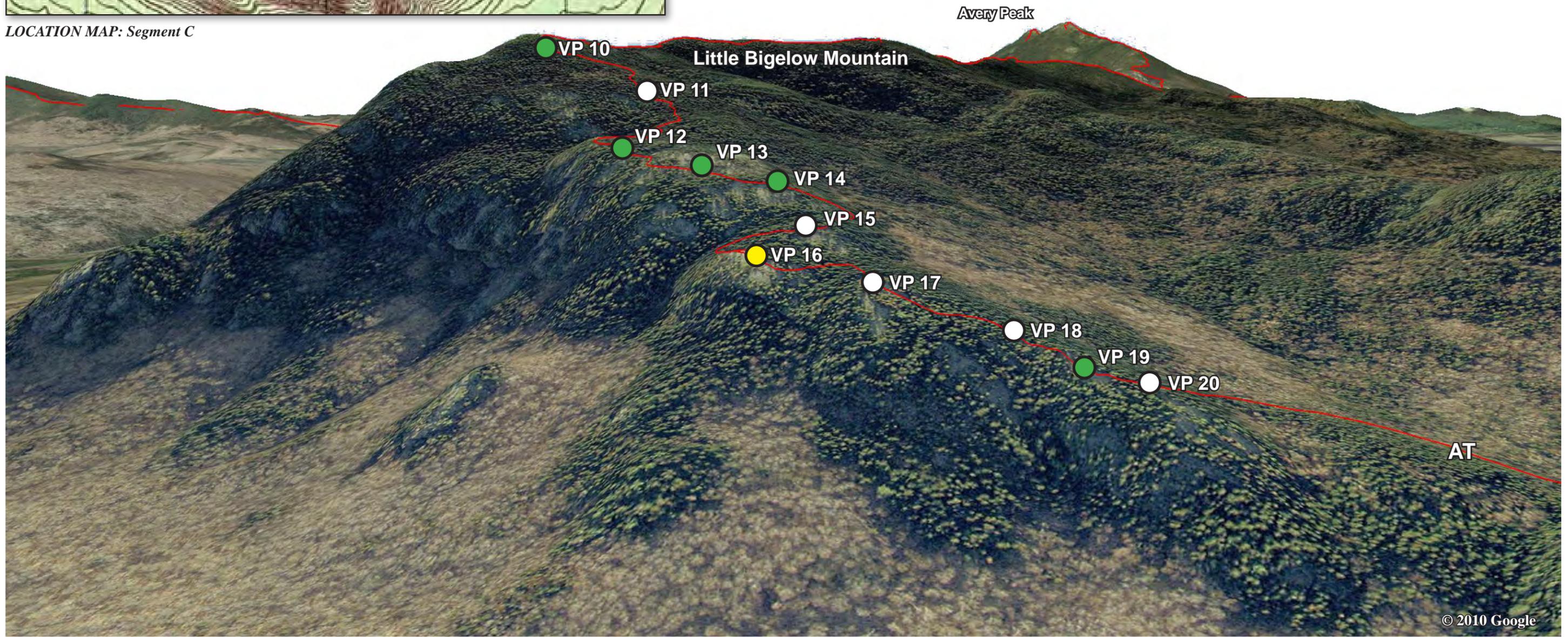


- LEGEND**
- Viewpoint with open view of Project within 8 miles
 - Viewpoint with filtered or heavily filtered view of Project within 8 miles
 - Viewpoint with no view of Project or visible turbines >8 miles

SEGMENT C. LEDGES BELOW LITTLE BIGELOW MOUNTAIN

The lower slopes of Little Bigelow Mountain, below Viewpoint 9, include a series of bald and partially wooded ledges (also known as the Blueberry Ledges) that afford periodic views to the north, east, and south. This segment of the trail has 11 viewpoints (Viewpoints 10 – 20) that afford both open, panoramic views and filtered, narrow views of the surrounding landscape. The Project would be visible in varying degrees from 6 of these views at distances of 4.67 miles to 5.04 miles to the closest turbine.

LOCATION MAP: Segment C





Panoramic view looking northeast toward Flagstaff Lake from the upper viewpoint during the summer. Photograph taken on 6/18/10 at 2:31pm.



Panoramic view from approximately the same viewpoint in leaf-off conditions. Heavily filtered views of the Project would be through trees, right in photograph. Photograph taken on 10/28/10 at 11:54am.

VIEWPOINT 10

(Heavily filtered view of 17± turbines within 8 miles)

Description

Viewpoint 10, adjacent to Viewpoint 9, offers a panoramic view of the eastern portion of Flagstaff Lake, starting at Blanchard Mountain on the west and continuing to the northern end of Stewart Mountain. Views include the highly configured shoreline of Flagstaff Lake, in addition to the diverse landforms in both the midground and background. The Project would not be highly visible from the panoramic view, where up to 17 turbines would be visible at the edge of the view. Turbines would be visible through a narrow opening in line with the AT.

Note: While the computer model indicates that up to 17 turbines within 8 miles may be visible, dense vegetation in the immediate foreground would prevent views of all but 9± turbines in most viewing areas.

Physical Characteristics

Viewpoint Location	Eastern end of Little Bigelow Mountain above the Blueberry Ledges
Elevation	2,957'± above MSL
Viewing Area	The upper part of the view is a rock outcrop below Viewpoint 9. Several turbines will be visible at a narrow opening in the forest in line with the trail.
Angle of View	Upper view: 100°±; Lower view: 20°±.
Type of View	Upper: Panoramic view (portion with turbines heavily filtered); Lower: Filtered narrow view.
Orientation	Upper: North to east; Lower: east.
Cultural Features in View	Flagstaff Lake; roads; occasional camps near lake and on surrounding hills; 115 kV transmission line; patterns from timber harvesting.

Highland Wind Project

Turbines Visible within 8 Miles	17± (filtered/heavily filtered) See Note.
Closest Visible Turbine	5.04 mi.
Arc of Turbines within 8 miles	15°±
Percent of View	10%±



LOCATION MAP: Viewpoint 10



View southeast toward Stewart Mountain. There will be no view of the Project from this viewpoint. Photograph taken on 6/18/10 at 1:52pm.

VIEWPOINT 11 (No view of project)

Description

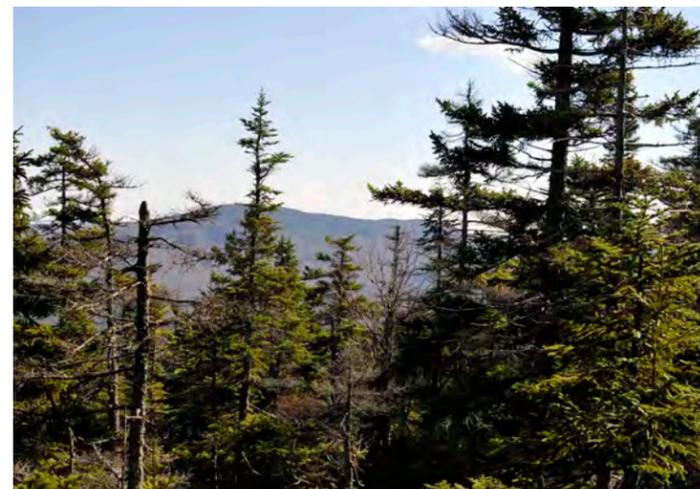
This viewpoint affords a highly filtered, intermittent glimpse of the mountains through narrow openings in the foreground forest cover. The view here is southeast toward the north end of Stewart Mountain.

Physical Characteristics

Viewpoint Location	Blueberry Ledges on Little Bigelow Mountain
Elevation	2,695' ± above MSL
Viewing Area	30' ±
Angle of View	25° ±
Type of View	Heavily filtered.
Orientation	Southeast.
Cultural Features in View	115 kV transmission line; patterns from timber harvesting.

Highland Wind Project

Turbines Visible within 8 Miles	None
Closest Visible Turbine	N/A



Photograph taken on 10/28/10 at 11:38am.



LOCATION MAP: Viewpoint 11



Filtered panoramic view east to southeast with glimpses of Flagstaff Lake and Stewart Mountain. Turbines would be visible at right in photo. Photograph taken on 10/28/10 at 11:13am.

VIEWPOINT 12

(Filtered view of 18 turbines within 8 miles)

Description

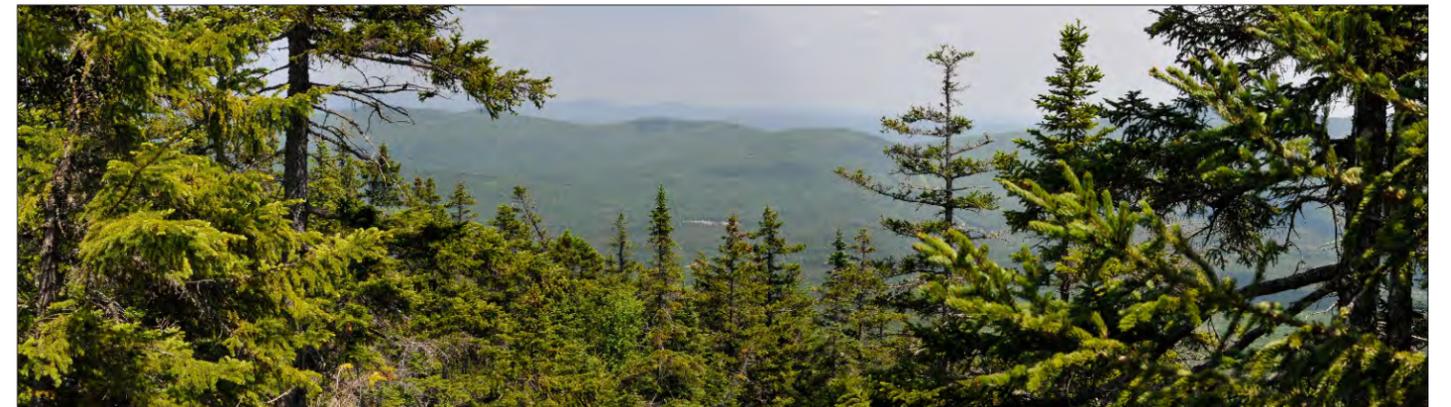
This viewpoint is characterized by its relatively short length of open and filtered views. Up to 18 turbines within 8 miles of the trail will be visible for approximately ten feet out of the total 75±-foot length of this viewpoint. Most views will be partially screened by foreground vegetation.

Physical Characteristics

Viewpoint Location	Blueberry Ledges on Little Bigelow Mountain
Elevation	2,711' ± above MSL
Viewing Area	75' ±
Angle of View	25° ±
Type of View	Filtered.
Orientation	East to southeast.
Cultural Features in View	Flagstaff Lake; roads; camps near lake and on the surrounding hills; gravel pits; transmission line; patterns from timber harvesting

Highland Wind Project

Turbines Visible within 8 Miles	18
Closest Visible Turbine	4.82
Arc of Turbines within 8 miles	9° ±
Percent of View	36% ±



Filtered view east toward Roundtop Mountain. Photograph taken on 6/18/10 at 1:32pm.



LOCATION MAP: Viewpoint 12



Filtered to open panoramic view from the middle of Viewpoint 13. View is oriented from the northeast to southeast toward Flagstaff Lake and Stewart Mountain. Turbines would be visible at right in photo.

VIEWPOINT 13

(Filtered to open view of 18 turbines within 8 miles)

Description

The primary viewpoint is in the middle portion of this segment of the trail, where the view extends from the northeast to the southeast. This view is divided into two components: northeast toward Flagstaff Lake and the layered mountains in the background, and southeast toward Stewart and Poplar Mountains. The primary view is toward the northeast, which offers a more complex composition of landforms and water, and fewer recent cultural modifications. This viewpoint extends for approximately 250 feet, within which there will be a filtered view of the Project for approximately 65 feet in the middle section.



Filtered panoramic view from the lower portion of Viewpoint 13. Photographs taken on 10/28/10 at 11:10am.

Physical Characteristics

Viewpoint Location	Blueberry Ledges on Little Bigelow Mountain
Elevation	2,479'± above MSL
Viewing Area	250'±
Angle of View	Upper: 45°±; Middle: 160°±; Lower: 80°
Type of View	Upper: Filtered with several openings. Middle: Panoramic, 20% filtered. Lower: Filtered
Orientation	Northeast to southeast.
Cultural Features in View	Flagstaff Lake; camps on the surrounding hills; patterns from timber harvesting; 115 kV transmission line.

Highland Wind Project

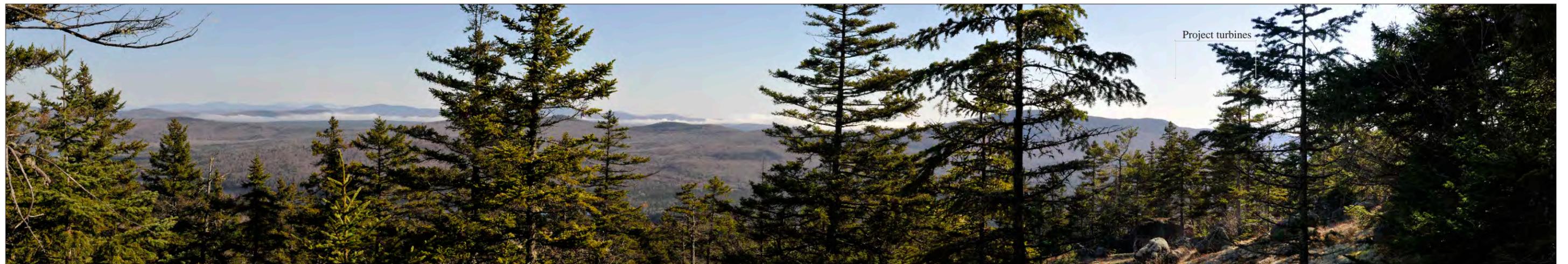
Turbines Visible within 8 Miles	18
Closest Turbine	4.80
Arc of Turbines within 8 miles	20°±
Percent of View	12%±



LOCATION MAP: Viewpoint 13



Filtered panoramic view from upper portion of Viewpoint 14. Turbines would be visible to the right of Stewart Mountain (right in photograph) Photograph taken on 10/28/10 at 11:04am.



Filtered panoramic view from middle portion of Viewpoint 14. View is oriented northeast to southeast toward Flagstaff Lake and Stewart Mountain. Photograph taken on 10/28/10 at 11:05am.

VIEWPOINT 14

(Filtered view of 17 turbines within 8 miles)

Description

Viewpoint 14 is comprised of three separate components. The upper portion is open and oriented northeast toward the southeasterly end of Flagstaff Lake, with its highly configured shoreline and occasional wooded islands. The view from the middle component is somewhat filtered. The view from the lower component extends from Stewart Mountain on the southeast to Flagstaff Lake on the northeast. The wide ledge invites hikers to stop.

The Project will be visible from approximately 30 feet out of the 150±-foot length of the viewing area. The Project will be seen at the edges of the middle and upper components of this view (see photographs above). The Project will not be seen at the lower portion of this viewpoint.

Physical Characteristics

Viewpoint Location	Blueberry Ledges on Little Bigelow Mountain
Elevation	2,433'± above MSL
Viewing Area	150'±
Angle of View	Top: 45°±; Middle: 40°±; Bottom: 100°
Type of View	Filtered panoramic view.
Orientation	Northeast to southeast.
Cultural Features in View	Flagstaff Lake; reflective roofs; roads; camps near lake and on the surrounding hills; patterns from timber harvesting; 115 kV transmission line; gravel pit.

Highland Wind Project

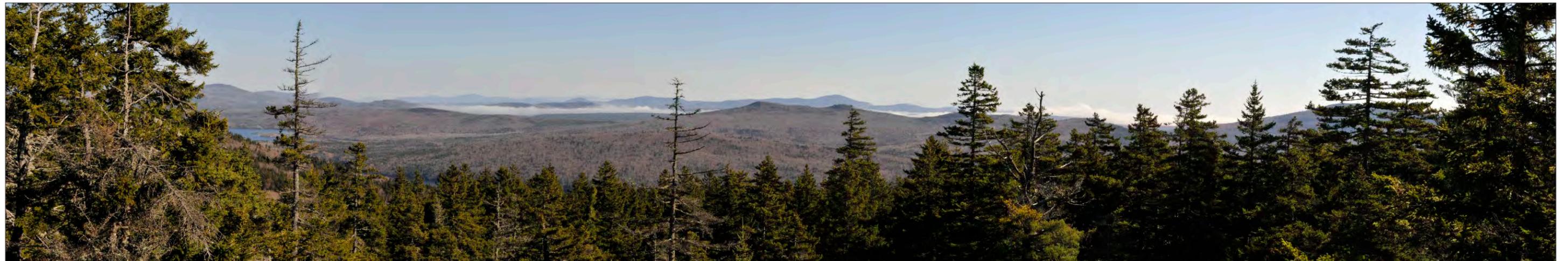
Turbines Visible within 8 Miles	17
Closest Turbine	4.81
Arc of Turbines within 8 miles	9°±
Percent of View	9%±



LOCATION MAP: Viewpoint 14



Filtered panoramic view east toward Roundtop Mountain. There will be no turbines visible within 8 miles of this viewpoint. Photograph taken on 6/18/10 at 12:36pm.



Filtered panoramic view east toward Roundtop Mountain. Photograph taken on 10/28/10 at 10:52am.

VIEWPOINT 15 (No view of Project)

Description

This viewpoint offers a panoramic view of the layered mountains from the southern end of Flagstaff Lake (barely visible above the trees) to the northern end of Stewart Mountain. Roundtop Mountain, with its distinctive twin peaks, is the focal point of the view. This is a relatively short viewing area that a hiker will pass through in 20± seconds.

Physical Characteristics

Viewpoint Location	Blueberry Ledges on Little Bigelow Mountain
Elevation	2,317'± above MSL
Viewing Area	100'±
Angle of View	100°±
Type of View	Panorama with filtered edges
Orientation	East
Cultural Features in View	Flagstaff Lake (small portion); reflective roofs; roads; patterns from timber harvesting

Highland Wind Project

Turbines Visible within 8 Miles	None
Closest Visible Turbine	N/A



LOCATION MAP: Viewpoint 15



A portion of the panoramic view looking northeast to southeast from the middle portion of Viewpoint 16. See photosimulation on following page. Photograph taken 7/25/09 at 2:14pm.

VIEWPOINT 16

(View of 16 turbines within 8 miles)

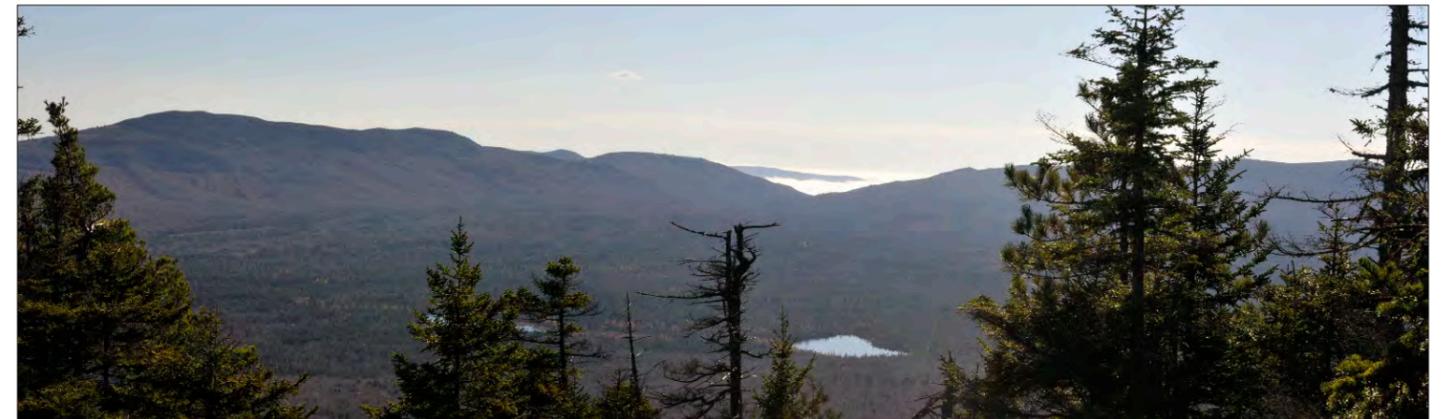
Description

Viewpoint 16 is composed of three separate components. The upper viewing area has the widest panorama, but it is heavily filtered. The main viewpoint is in the middle, where the view extends from the southeastern end of Flagstaff Lake to Poplar Mountain and includes all of Stewart Mountain and a portion of Witham Mountain, plus a small pond at the base of Little Bigelow Mountain. The lower viewpoint is also heavily filtered, with views to Stewart Mountain.

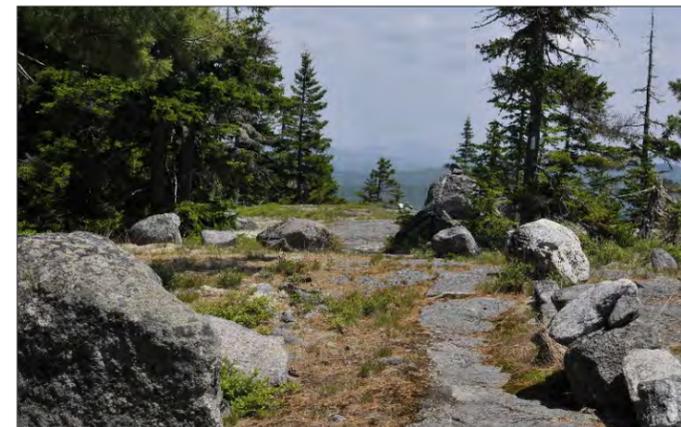
The Project would not be visible from the upper viewpoint due to foreground vegetation. The middle view is composed of two separate components: a view to the northeast toward Flagstaff Lake and Roundtop Mountain, and a view to the southeast toward Stewart Mountain and Poplar Mountain. The Project would be seen on the right side of Stewart Mountain over an arc of 10°. At the lower viewpoint the Project would be seen at the edge of the view, to the right of Stewart Mountain, and partially filtered.

Physical Characteristics

Viewpoint Location	Blueberry Ledges on Little Bigelow Mountain
Elevation	2,244'± above MSL
Viewing Area	225 linear feet total, of which 125 feet in the middle are open; the rest is filtered.
Angle of View	Upper: 170%±, 75% filtered; Middle: 160°±, mostly open; Lower: 45°
Type of View	Segmented panorama
Orientation	North-northeast to south-southeast.
Cultural Features in View	Flagstaff Lake; reflective roofs; roads; 115kV transmission line; patterns from timber harvesting; gravel pits.



View southeast looking toward Stewart Mountain. Photograph taken on 10/28/10 at 10:39am.



AT leading through Viewpoint 16.

Highland Wind Project

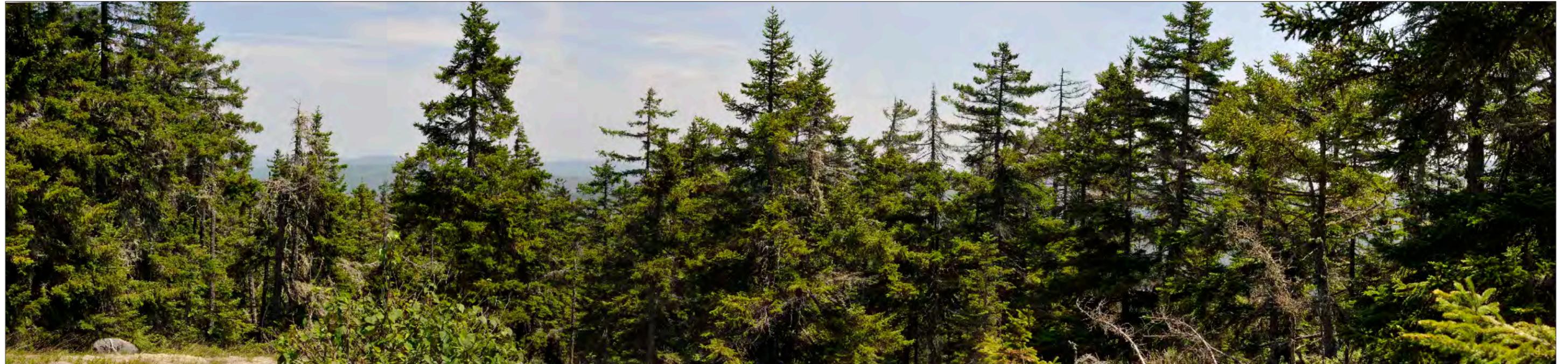
Turbines Visible within 8 miles	16
Closest Visible Turbine	4.69
Arc of Turbines within 8 miles	10°±
Percent of View	6.3%±



LOCATION MAP: Viewpoint 16



VIEWPOINT 16: Normal view photosimulation of Project as seen from the middle section of Viewpoint 16. Hold image 21±" from eye to replicate actual view. If viewing on a computer screen, eye should be approximately 1.5 times the image width away from the screen. Photograph taken 7/25/09 at 2:14pm. Lat: 45.132623°; Long: -70.199865°.



Filtered narrow view east through intervening vegetation. The Project will not be visible from this viewpoint. Photograph taken on 6/18/10 at 11:56am.

VIEWPOINT 17 (No view of Project)

Description

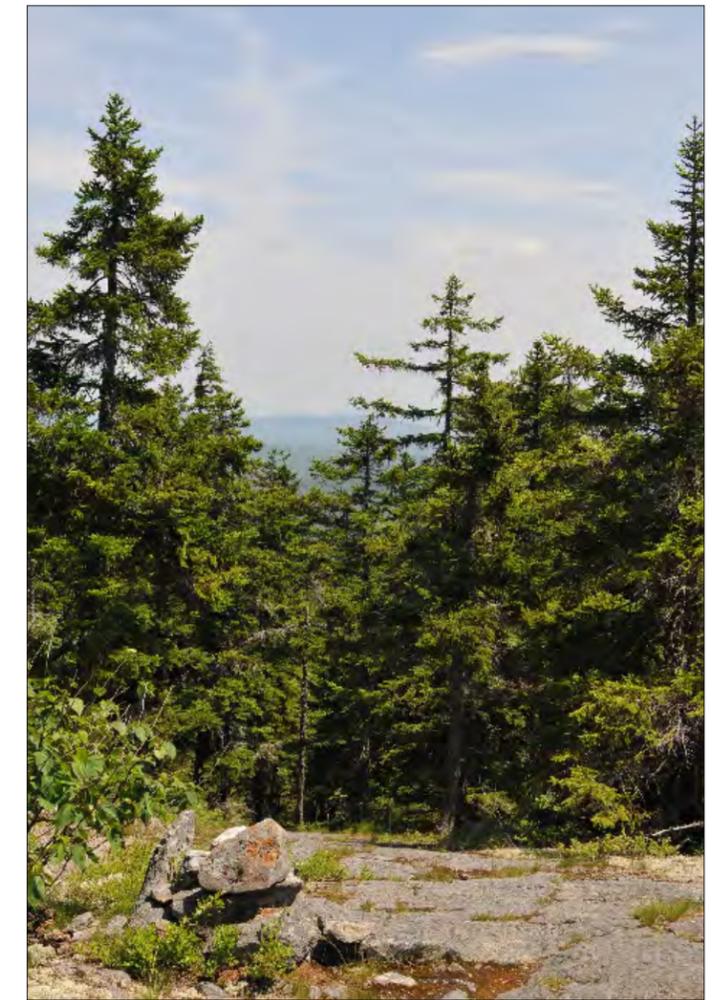
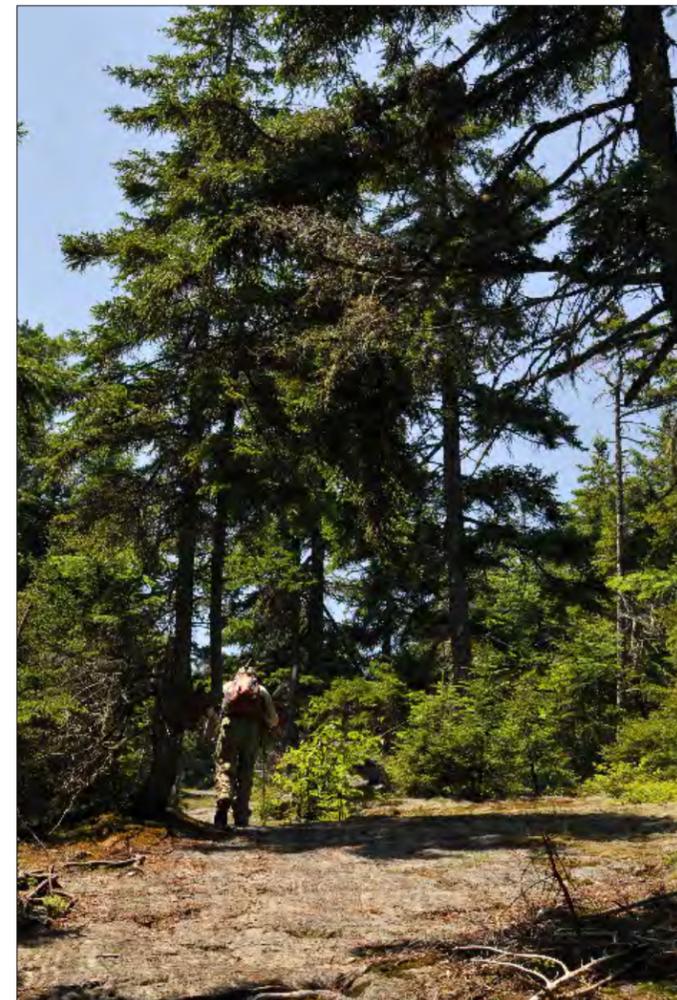
This viewpoint offers a brief filtered views of the mountains to the northeast above Flagstaff Lake. The surface of the water is not visible.

Physical Characteristics

Viewpoint Location	Blueberry Ledges below Little Bigelow Mountain
Elevation	2,213' ± above MSL
Viewing Area	50' ± along the trail on a bald ledge that widens out to 20' ±
Angle of View	45° ±.
Type of View	Filtered narrow view
Orientation	East

Highland Wind Project

Turbines Visible within 8 Miles	None
Closest Visible Turbine	N/A



LOCATION MAP: Viewpoint 17

AT leading to Viewpoint 17.



Heavily filtered view east with glimpses of Stewart Mountain. The Project will not be visible from this viewpoint. Photograph taken on 6/18/10 at 11:48am.

VIEWPOINT 18 (No view of Project)

Description

The vegetation on the east side of the trail is thinned to a point where there are very filtered views to the mountains on the east. There is limited opportunity for stopping and/or viewing.

Physical Characteristics

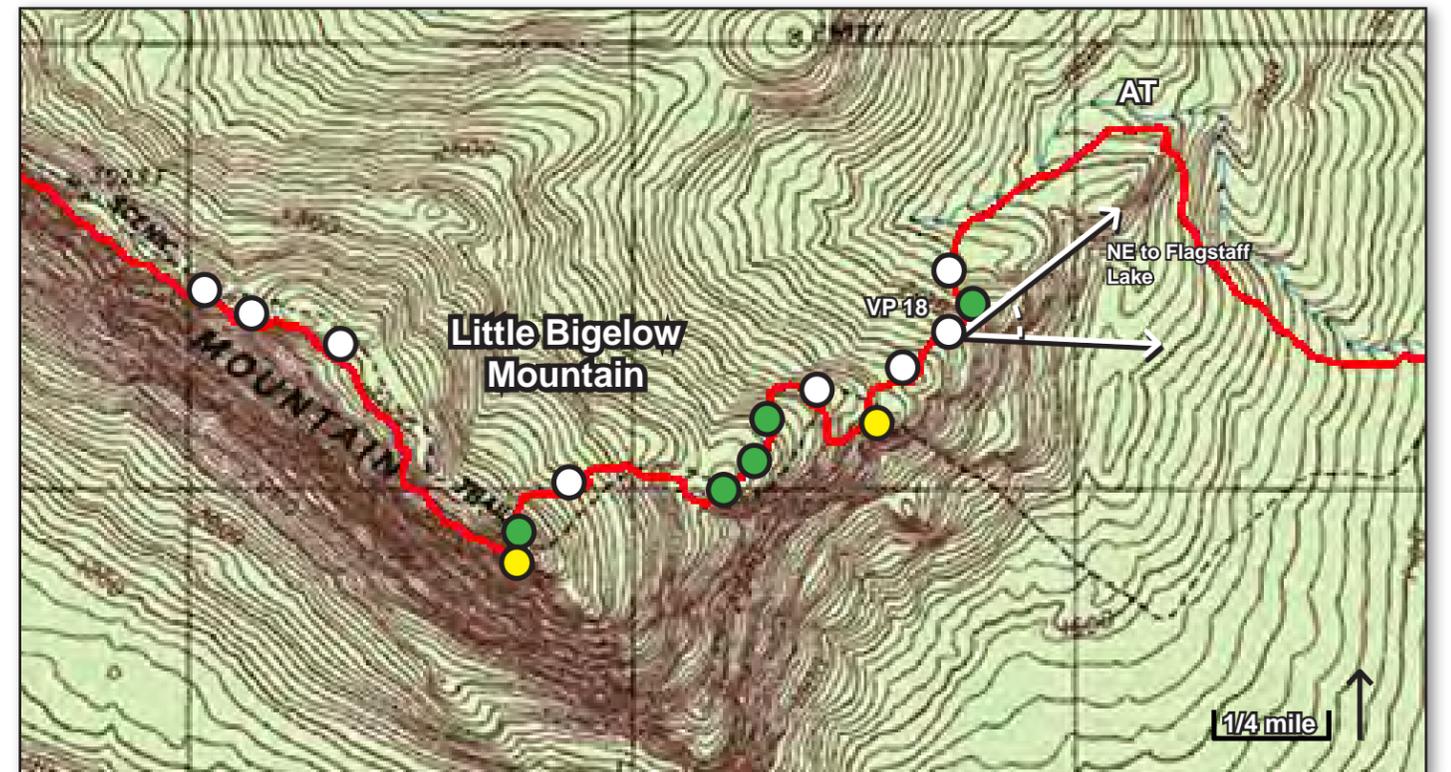
Viewpoint Location	Blueberry Ledges below Little Bigelow Mountain
Elevation	2,137' ± above MSL
Viewing Area	150' ±
Angle of View	45° ±.
Type of View	Heavily Filtered.
Orientation	East.
Cultural Feature in View	Portion of Flagstaff Lake; patterns from timber harvesting.

Highland Wind Project

Turbines Visible within 8 Miles	None
Closest Visible Turbine	N/A



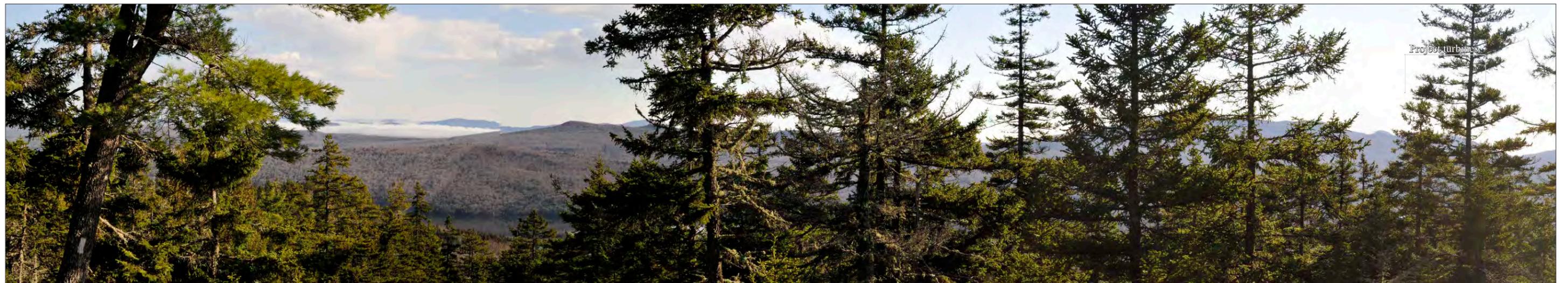
AT at Viewpoint 18.



LOCATION MAP: Viewpoint 18



A portion of the filtered panoramic view looking east to south toward Flagstaff Lake and Stewart Mountain from the upper viewpoint. Turbines would be visible to right in photograph through foreground trees. Photograph taken on 7/25/09 at 1:43pm.



Same viewpoint during leaf-off conditions. Photograph taken 10/28/10 at 9:58am.

VIEWPOINT 19

(Heavily filtered view of up to 13± turbines within 8 miles)

Description

This is a three-part viewpoint, with upper, middle, and lower viewing areas. The size and width of the steep, open rock ledges are conducive to stopping and viewing. The view is focused to the east at Round Top Mountain on the east side of Flagstaff Lake. This is a moderately complex view, with layered hills rising above the lake. The northern end of Stewart Mountain is slightly visible (to the right in photograph) at the upper viewpoint and becomes more visible as the hiker descends through this filtered opening in the trail.

Note: While the computer model indicates that 13± turbines within 8 miles may be visible, dense vegetation in the immediate foreground would prevent views of all but 7± turbines.

Physical Characteristics

Viewpoint Location	Start of the Blueberry Ledges below Little Bigelow Mountain
Elevation	2,091' ± above MSL
Viewing Area	200' ±
Angle of View	Top: 80°±; Middle: 140°±; Bottom: 70°
Type of View	Filtered panorama (Portion with turbines heavily filtered)
Orientation	east to south.
Cultural Features in View	Flagstaff Lake; 115 kV transmission line; reflective roofs.

Highland Wind Project

Turbines Visible within 8 Miles	13± See Note.
Closest Visible Turbine	4.67 miles
Arc of Turbines within 8 miles	10°±
Percent of View	7%±



LOCATION MAP: Viewpoint 19

VIEWPOINT 20 (No turbines visible within 8 miles)

Description

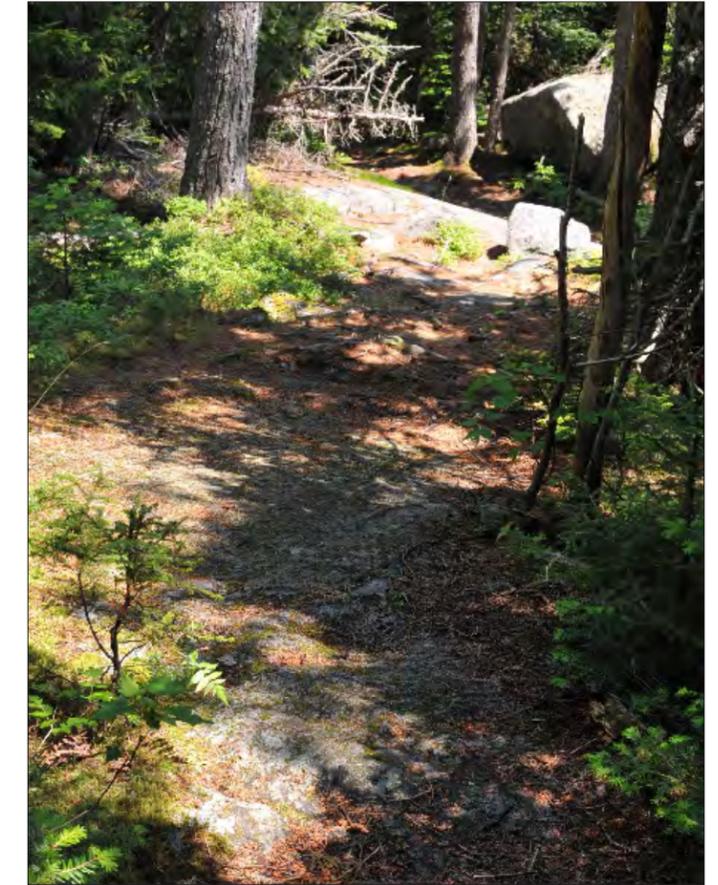
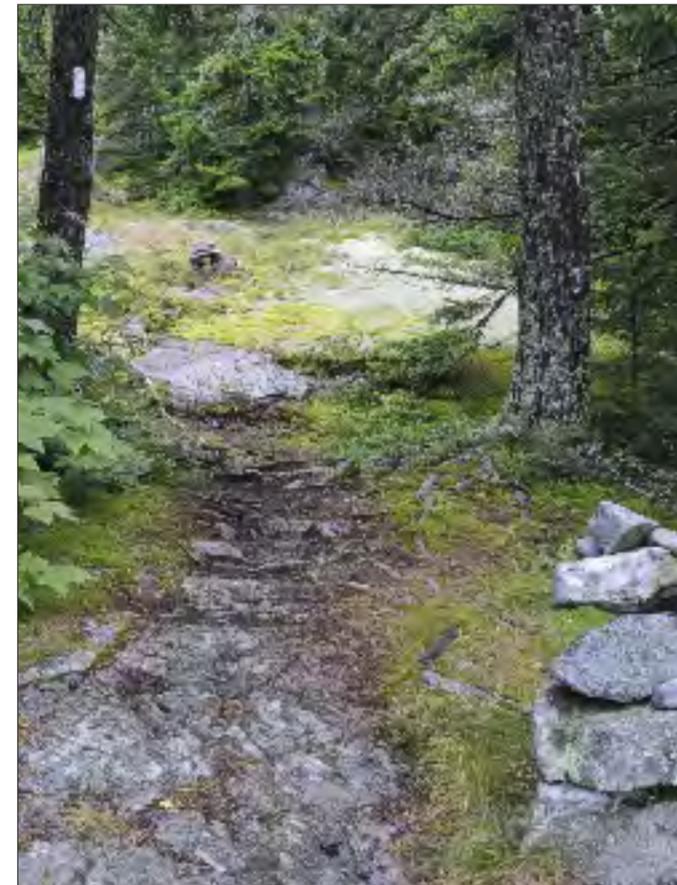
For someone climbing Little Bigelow Mountain, this is the first opportunity to see beyond the immediate spruce-fir forest at the lower slopes of the mountain. The view is brief; the average hiker will pass through this area in a few seconds.

Highland Wind Project

Turbines Visible within 8 miles	None
Closest Visible Turbine	N/A

Physical Characteristics

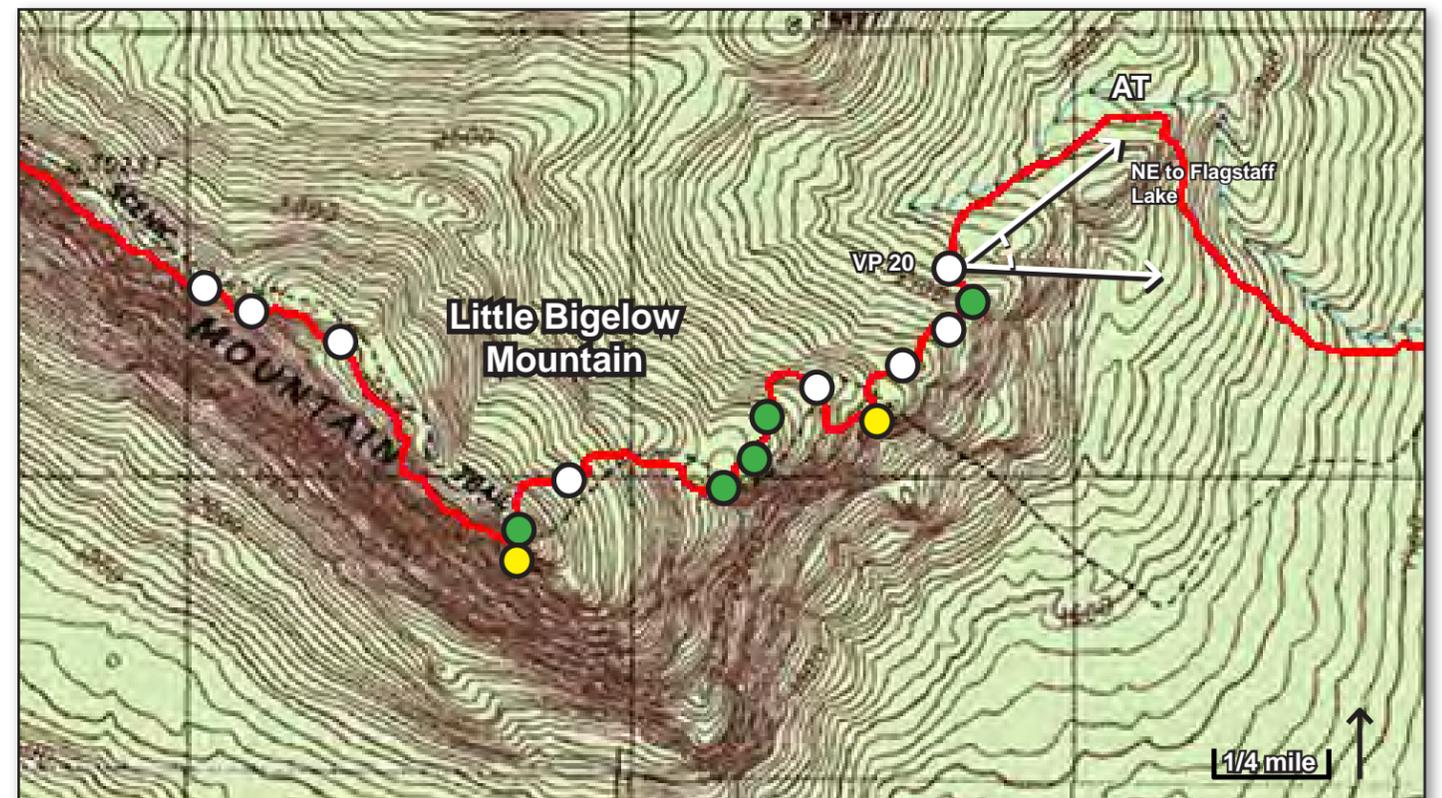
Viewpoint Location	1.75± miles southwest of the parking area on East Flagstaff Road.
Elevation	2,058'± above MSL
Viewing Area	20'±
Angle of View	40°±
Type of View	Narrow, heavily filtered view from the trail.
Orientation	East
Cultural Features in View	Flagstaff Lake



Typical path conditions along the AT.



Narrow, heavily filtered view looking east toward Flagstaff Lake. Photograph taken on 10/28/10 at 9:48am.



LOCATION MAP: Viewpoint 20

CULTURAL FEATURES IN APPALACHIAN TRAIL VIEWSHED

Hikers on the AT within the Bigelow Preserve will see a number of cultural features, as noted in the viewpoint descriptions. These include:

Top left: Patterns from timber harvesting on Stewart Mountain; a 115 kV transmission line.

Middle left: Flagstaff Lake, a man-made impoundment

Bottom left: Sugarloaf resort.

Top right: 115 kV Transmission Line between Sugarloaf Mountain and the Bigelow Range.

Middle right: Sugarloaf Regional Airport.

