ATTACHMENT D

Visual Simulations and Contrast Rating

Attachment D. Visual Simulations

Viewpoint Information

Viewpoint ID: 5

County: Chautauqua Town: Ripley **Location:** Intersection of County Route 6 and Miller Road Latitude, Longitude: 42.19465°N, 79.74688°W Direction of View: Southeast **Distance to Nearest PV Panel in View:** 167 feet Distance Zone: Near-foreground

Photograph Information

Date Taken: August 06, 2020 **Time:** 11:46 AM Camera: Nikon D7100 **Resolution:** 24.1 Megapixels Lens Focal Length: 24 mm

Visual Resources

Landscape Type: Rural Residential/ Agricultural User Group: Local Residents, Through-Travelers **VSR:** Concord Grape Belt State Heritage Area

Max Panel Height: 13 feet AGL Project Area: 3,382 acres



Context Map







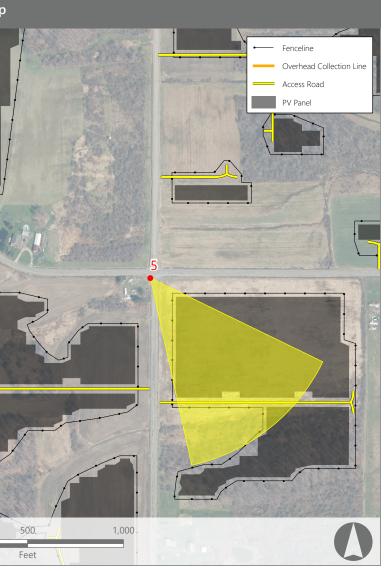
South Ripley Solar Project Town of Ripley, Chautauqua County, New York Section 94-c Application. Matter No. 21-00750 Sheet 1 of 80







Hazen Ro





Existing View



Proposed View



View with Mitigation



South Ripley Solar Project Town of Ripley, Chautauqua County, New York Section 94-c Application. Matter No. 21-00750 Sheet 2 of 80

Existing Condition

Viewpoint 5 is located in the Town of Ripley at the intersection of County Route 6 and Miller Road, approximately 167 feet from the nearest proposed PV panel array. This viewpoint occurs in the western portion of the Facility Site and is representative of views available to residents traveling local roads. The existing view to the southeast includes the paved surface of Miller Road in the immediate foreground, backed by a recently harvested agricultural field. The field is separated from the road by a band of unmowed vegetation on the shoulder and is backed by a dense forested woodlot. A more distant wooded ridgeline is visible in the background on the left. The contrasting bands of color and texture in the vegetation, road and sky result in strong horizontal lines across the view. Aside from the road, man-made features are limited to a road sign on the far left, a small wind turbine behind the woodlot on the right, and a tractor in the field. The view has a strong working agricultural character and moderate scenic quality.

Proposed View

With the proposed Facility in place, the field beyond the roadside vegetation is now fully occupied by solar panels. The tops of some trees in the middle ground are visible above the panels, but some of this vegetation has obviously been cleared. The array is close enough to the viewer that details of the perimeter fencing and racking system are clearly visible. The dark color and hard line of the panels present strong contrast with the existing vegetation and sky. They also block views of more distant landscape features and serve to enclose the view. The panels also change the character of the landscape from agricultural to energy generation and become the new focus of the view.

Landscape Mitigation

With perimeter screen plantings in place, and following five to seven years of growth, several clumps of trees and shrubs now break up the repetition of the racking system and the linear appearance of the array. The plantings also help to soften the hard edge of the panels against the sky. The effectiveness of the plantings in screening the Facility will improve over time but will also further enclose the formerly open view. The presence of conifers amongst the plantings will assist with screening during the dormant season, but also appears somewhat inconsistent with the existing vegetation in the area.

Viewpoint Sensitivity¹:

Sceni	c Quality:
	Low
\mathbf{X}	Moderate
	High
Viewe	er Exposure:
	Continuous
X	Repeated/Regular
X	Occasional/Brief
	Rare

¹ Viewpoint Sensitivity information is gathered from rating panel results. Scenic Quality is an average based on Low = 1, Moderate = 2, High = 3. Viewer Exposure reflects all those selected be the review panel.

Contrast Rating Scores²:

	Score		Contract Pating	
Component	Install	5-7 Years	Contrast Rating 5-7 Years	
Landform	2.8	2.0	Moderate	
Vegetation	3.0	2.1	Moderate	
Land Use	2.9 2.3 Moderate/App		Moderate/Appreciable	
Water	ter NA NA		NA	
Sky	2.5	1.6	Minimal/Moderate	
Viewer Activity	2.9	2.3	Moderate/Appreciable	
AVERAGE	2.8	2.1	Moderate	

 2 Contrast Rating Scale: 0.0 - 0.2 (Insignificant), 0.3 - 0.7 (Insignificant/Minimal), 0.8 - 1.2 (Minimal), 1.3 - 1.7 (Minimal/Moderate), 1.8 - 2.2 (Moderate), 2.3 - 2.7 (Moderate/Appreciable), 2.8 - 3.2 (Appreciable) 3.3 - 3.7 Appreciable/Strong), 3.8 - 4.0 (Strong).

Contrast Rating - Lowest and Highest Scores:

Install				
Component	Score			
Component	Low	High		
Landform	1.5	4		
Vegetation	2	4		
Land Use	2	3.5		
Water	NA	NA		
Sky	1	4		
Viewer Activity	2	4		

Mitigation				
Component	Score			
Component	Low	High		
Landform	1.5	3		
Vegetation	1.5	3		
Land Use	1.5	3		
Water	NA	NA		
Sky	0	3		
Viewer Activity	1.5	3		



Ŭ D 2 r No. 21-00750 Section 94-c Applic



of Ripley Matter No. 21-00750 | \ Section 94-c Applic



No. 21-00750 | Section 94-c Ap



No. 21-00750 Section 94-c

Attachment D. Visual Simulations

Viewpoint Information

Viewpoint ID: 15 County: Chautauqua Town: Ripley **Location:** County Route 6 Latitude, Longitude: 42.19505°N, 79.70936°W Direction of View: West-Southwest **Distance to Nearest PV Panel in View:** 170 feet **Distance Zone:** Near-foreground

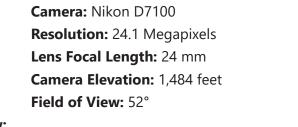
Visual Resources

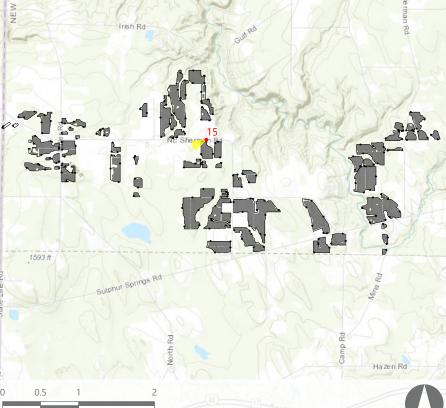
Landscape Type: Rural Residential/ Agricultural User Group: Local Residents, Through-Travelers **VSR:** Concord Grape Belt State Heritage Area, South Ripley Cemetery, South Ripley Methodist Church

Photograph Information

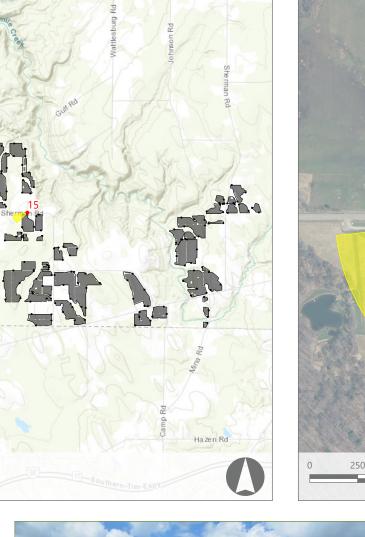
Date Taken: August 06, 2020 **Time:** 12:36 PM

Project Information Racking Type: Fixed Tilt PV Array Max Panel Height: 13 feet AGL Project Area: 3,382 acres





Location Map







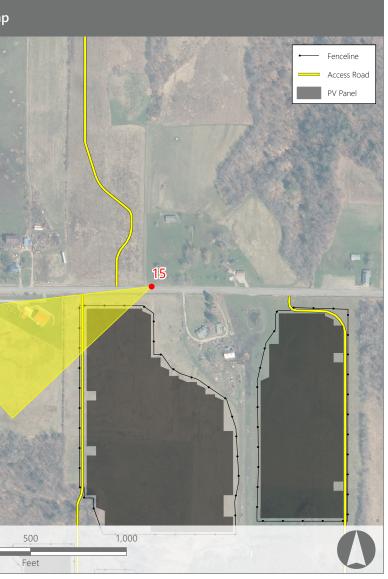
Context Map





South Ripley Solar Project Town of Ripley, Chautauqua County, New York

Section 94-c Application. Matter No. 21-00750 Sheet 7 of 80





Existing View



Proposed View



View with Mitigation



South Ripley Solar Project Town of Ripley, Chautauqua County, New York Section 94-c Application. Matter No. 21-00750 Sheet 8 of 80

Existing Condition

Viewpoint 15 is located in the Town of Ripley on County Route 6, approximately 152 feet from the nearest proposed PV panel array. This viewpoint is in the central portion of the Facility Site, adjacent to the South Ripley Cemetery. The existing view to the southwest from this somewhat elevated viewpoint looks down County Route 6, which draws the viewer's eye from the immediate foreground into the background on the right side of the view. The road is paralleled on the left by a low band of brushy vegetation and an overhead utility line. Although relatively low in height, the band of brushy roadside vegetation blocks views into an adjacent open field. The land drops gently away from the viewpoint into a wooded valley, before rising again over undulating terrain to a wooded tree line that defines the visible horizon in the background. Some open fields and portions of a few buildings are visible in the middle ground and background of this largely forested landscape. The sky overhead is an attractive mix of sun and clouds, and a dominant feature of the view. The view has a strong rural residential character and moderate scenic quality.

Proposed View

With the proposed Facility in place, a small portion of the panel array and perimeter fence can be seen in the foreground field on the left adjacent to the road. However, the existing band of roadside vegetation is effective in screening the majority of the array. The panels also blend with the rolling landform and due to the presence of wooded hills in the background, do not project above the tree line into the sky. They are noticeable, but do not dominate the view. Existing vegetative elements and perspective lines are maintained. In this view the Facility has minimal impact on scenic quality or landscape character.

Landscape Mitigation

Proposed perimeter plantings reinforce the existing roadside buffer, adding color and visual interest, along with enhanced screening. The plantings blend nicely with the existing vegetation in front of and behind the array, softening the exposed horizontal edge of the panel array.

Viewpoint Sensitivity¹:

Sceni	c Quality : Low
X	Moderate
	High
Viewe	er Exposure:
	Continuous
X	Repeated/Regular
X	Occasional/Brief
	Rare

¹ Viewpoint Sensitivity information is gathered from rating panel results. Scenic Quality is an average based on Low = 1, Moderate = 2, High = 3. Viewer Exposure reflects all those selected be the review panel.

Contrast Rating Scores²:

	Score		Contract Pating	
Component	Install	5-7 Years	Contrast Rating 5-7 Years	
Landform	0.6	0.4	Insignificant/Minimal	
Vegetation	1.1	0.5	Insignificant/Minimal	
Land Use	1.5	1.0	Minimal	
Water	NA	NA	NA	
Sky	0.5	0.5	Insignificant/Minimal	
Viewer Activity	0.9	0.6	Insignificant/Minimal	
AVERAGE	0.9	0.6	Insignificant/Minimal	

 2 Contrast Rating Scale: 0.0 - 0.2 (Insignificant), 0.3 - 0.7 (Insignificant/Minimal), 0.8 - 1.2 (Minimal), 1.3 - 1.7 (Minimal/Moderate), 1.8 - 2.2 (Moderate), 2.3 - 2.7 (Moderate/Appreciable), 2.8 - 3.2 (Appreciable) 3.3 - 3.7 Appreciable/Strong), 3.8 - 4.0 (Strong).

Contrast Rating - Lowest and Highest Scores:

Install				
Component	Score			
Component	Low	High		
Landform	0	1		
Vegetation	0.5	1.5		
Land Use	1	2		
Water	NA	NA		
Sky	0	1.5		
Viewer Activity	0.5	1		

Mitigation				
Component	Score			
Component	Low	High		
Landform	0	1		
Vegetation	0	1		
Land Use	0.5	1.5		
Water	NA	NA		
Sky	0	1		
Viewer Activity	0.5	1		



ng Co County, New York 21-00750 en autau Section 94-c Ap



South Ripley Solar Project Town of Ripley, Chautauqua Cour Section 94-c Application. Matter No. 21-00750

ute 6 County, New York 0 nt 15, n. Matter No. 21-00750 | V



ty, New York 00750 Section 94-c A



ty, New York 00750 Section 94-c A

Attachment D. Visual Simulations

Viewpoint Information

Viewpoint ID: 16 County: Chautauqua Town: Ripley **Location:** County Route 6 Latitude, Longitude: 42.19504°N, 79.70556°W Direction of View: South-Southwest **Distance to Nearest PV Panel in View:** 179 feet **Distance Zone:** Near-foreground

Visual Resources

Landscape Type: Rural Residential/ Agricultural User Group: Local Residents, Through-Travelers VSR: Concord Grape Belt State Heritage Area, South Ripley Methodist Church

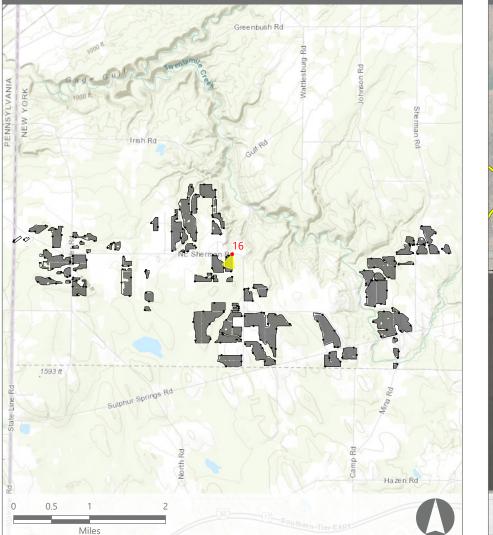
Photograph Information

Date Taken: August 06, 2020 **Time:** 12:41 PM

Max Panel Height: 13 feet AGL



Project Area: 3,382 acres







Context Map



South Ripley Solar Project Town of Ripley, Chautauqua County, New York Section 94-c Application. Matter No. 21-00750 Sheet 13 of 80

