

# Visual Impact Assessment Update for Alternative Layout

May 2020



# **High River Energy Center**Town of Florida, New York

# **Prepared For:**

**High River Energy Center, LLC** 700 Universe Boulevard Juno Beach, Florida 33408

# **Prepared By:**

TRC 650 Suffolk Street Lowell, MA 01854





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# 1.0 INTRODUCTION

High River Energy Center, LLC, (HREC) a wholly-owned, indirect subsidiary of NextEra Energy Resources, LLC is proposing to construct, operate and maintain the High River Energy Center (Project), and has submitted an Article 10 application to the New York State Board on Electric Generation Siting and the Environment.

As stated in its Supplement to the Application, HREC is providing herein, an update to the Application's Visual Impact Assessment (VIA). This updated VIA includes new visibility analyses, calculations, and simulations based on the addition of a new Project parcel for the Alternative Layout.

# 2.0 PROJECT CHANGES

Following the submission of the Application, an Alternative Layout of the Project was designed. In the Alternative Layout as seen in Figure A-1 in Attachment 1, the former proposed array areas designated as Areas 6 and 6A adjacent to the New York State Thruway have been removed. The Applicant was able to acquire a lease agreement for an additional 200-acre parcel adjacent to the Project Area near the southwest portion of the site. Figure A-1 shows the additional property that is located east of Thayer Road and north of Bulls Head Road. This acquired property includes approximately 83.5 acres of proposed solar panels within the parcel and is noted as an extension of Array Area A2. By adding modules on this parcel, some modules on steeper slopes are no longer proposed thereby reducing impacts to the steep slopes. With the removal of modules at Areas 6 and 6A there will no longer be direct views of these arrays within these parcels from portions of Pattersonville Road, Bulls Head Road and the New York State Thruway. Please see Drawing C.200 in Attachment 1 for the new proposed layout.

Other project changes include a change from a tracking system to fixed panels and occurs at Areas A1, A2, and parts of A3 located north of Bulls Head Road.

# **3.0 DISTANCE ZONES**

Distance Zones are designated by producing a buffer around the fence line that surround the arrays. The fence line has changed slightly in response to the Alternate Layout and therefore there are slight alterations to the Distance Zone boundaries. The definitions of the Distance Zones as stated in the Application do not change and are reiterated here:

<u>Distance Zone 1</u>: Foreground (up to 0.5 miles from the viewer). This is the closest distance
at which details of the landscape and the solar panels can be seen. Individual landscape
forms are typically dominant and individual panel strings and racking system detail may
be seen. The concentration of predicted visible areas lies within this zone.



- <u>Distance Zone 2:</u> Middleground (0.5 to 2 miles from the viewer). At this distance individual tree forms and building detail can still be distinguished at for example, 1 mile. The outer boundary of this distance zone however is defined as the point where the texture and form of individual plants are no longer as visibly acute in the landscape. In some areas, atmospheric conditions can reduce visibility and shorten the distance normally covered by each zone. Solar panels lose level of detail and are seen as a continuous mass of form and/or color.
- <u>Distance Zone 3:</u> Background (2 to 5 miles from the viewer to the horizon). At the extent of background distances, texture disappears, and color flattens but large light and dark patterns of vegetation or open land due to shape or color is distinguishable and ridgelines and horizon lines are the dominant visual characteristics. Landscapes are simplified and are viewed in groups or patterns. Solar panels can be detected as a distant form and color change but are not as discernible.

# 3.1.1 Visibility Within Distance Zones

An updated viewshed analysis was performed using the Alternative Layout. Visibility within Distance Zones was recalculated based on the updated analysis results and Distance Zone boundaries and is presented in Table 1. As can be seen in the table, the change in visibility for all Distance Zones is less than 1% and is not significant.

**Table 1. Percent Visibility within Distance Zones** 

Distance Zone	Total Area Comprising Distance Zone	Total Area Comprising Distance Zone Square Miles	Visibility Within Distance Zone Square Miles	% Visibility Within Distance Zone	% Visibility Within Full VSA*	% Visibility Change Within
Zone 1 0-0.5 Miles	<b>Acres</b> 3,785.37	5.91	1.96	33.11%	<b>1.76%</b> (1.80%)	-0.04%
Zone 2 0.5-2.0 Miles	13,543.43	21.16	0.75	3.53%	0.67% (0.65%)	0.02%
Zone 3 2.0-5.0 Miles	54,055.70	84.46	1.14	1.34%	<b>1.02%</b> (0.83%)	0.19%
Total*	<b>71,384.51</b> (71,700.26)	<b>111.54</b> (112.03)	<b>3.84</b> (3.68)	<b>3.44%</b> (3.28%)	<b>3.44%</b> (3.28%)	0.16%

<sup>\*</sup> Numbers in bold are the updated calculated numbers and percentages for the Alternative Layout alignment. Italicized numbers in parentheses are the former numbers from the original Project alignment submitted in the Article 10 application.



# 4.0 LANDSCAPE SIMILARITY ZONES

The Landscape Similarity Zone (LSZ) categories do not change as a result of the Alternative Layout. The LSZ categories, presented in the Application, are reiterated below:

# Zone 1 - Agricultural/Open Field

Agricultural and open field consists of cultivated crops, hay, or pasture or general open land. Views from this zone are typically from larger open areas along roadsides and can include homes offset farther from the road that are not included in the Zone 3 Developed category. Frequently there are hedgerows or small tree groups that provide intermittent screening.

### Zone 2 - Forested

Views from inside the Forest Zone are highly limited since it is assumed that tree canopy precludes outward views unless there are intermittent gaps in trees. Forested areas may include roadway segments where there are permanent residents.

# Zone 3 - Developed

The City of Amsterdam falls under this category. However generally in the VSA residential housing consists of single-family dwellings or a larger farm complex. The Developed Zone in towns outside of the city also includes the local roadways where rural residential development is intermittently established adjacent and along the existing road network as well as accounting for roadway travelers. Often adjacent buildings in this zone are visual impediments for views as well as roadside vegetation. However, there may be open road corridors with less screening that could afford longer distant views.

### Zone 4 – Mohawk River Corridor

This LSZ is a major water feature that runs east-west through the VSA. This Zone is constrained to the Mohawk River and shoreline areas.

Table 2 summarizes the percentage of LSZs in the VSA. Changes from the Alternative Layout are less than 1% and are not significant.



Table 2. Percentage of Landscape Similarity Zones within Five Mile VSA

	Distance Zone 1 0.5 Miles			Distance Zone 2 Distance Zone 3 0.5-2.0 Miles 2.0-5.0 Miles					
LSZ	Square Miles	% of LSZ w/in VSA	Square Miles	% of LSZ w/in VSA	Square Miles	% of LSZ wi/in VSA	Total Square Miles of LSZ	Total Percent of LSZ in VSA*	% LSZ Change Within VSA
Zone 1 Agricultural/Open Land	3.99	3.58%	10.36	9.29%	33.76	30.27%	48.12	<b>43.14%</b> (43.16%)	-0.02%
Zone 2 Forested	1.77	1.58%	8.90	7.98%	44.50	39.90%	55.17	<b>49.47%</b> (49.51%)	-0.04%
Zone 3 Developed	0.16	0.14%	1.15	1.03%	5.42	4.86%	6.73	<b>6.03%</b> (5.98%)	0.05%
Zone 4 Mohawk River Corridor	0	0.00%	0.74	0.67%	0.77	0.69%	1.52	<b>1.36%</b> (1.35%)	0.01%
Totals*	<b>5.91</b> (6.18)	<b>5.30%</b> (5.52%)	<b>21.16</b> (21.23)	<b>18.97%</b> (18.95%)	<b>84.46</b> (84.62)	<b>75.72%</b> (75.53%)	<b>111.54</b> (112.03)	100.00%	

<sup>\*</sup> Numbers in bold are the updated calculated numbers and percentages for the Alternative Layout alignment. Italicized numbers in parentheses are the former numbers from the original Project alignment submitted in the Article 10 application.

# 4.1.1 Visibility Within Landscape Similarity Zones

An updated viewshed analysis was performed using the Alternative Layout alignment. Visibility within Landscape Similarity Zones were recalculated based on the updated analysis results and are presented in Table 3. As can be seen in the table, any change in visibility is less than 1% and is not significant.

Table 3. Percent Visibility within Landscape Similarity Zones Within Five Mile VSA

LSZ	Total LSZ Acres Within 5 Miles	Total LSZ Sq Miles Within 5 Miles	LSZ Sq Miles of Visibility	% Visibility within LSZ	% Visibility Within VSA*	% Visibility Change Within VSA
Zone 1 Agriculture/Open Land	30,793.98	48.12	3.27	6.80%	<b>2.93%</b> (2.74%)	0.19%
Zone 2 Forested	35,311.68	55.17	0.38	0.69%	<b>0.34%</b> (0.36%)	-0.02%
Zone 3 Developed	4,307.329	6.73	0.13	1.98%	<b>0.12%</b> (0.09%)	0.03%



LSZ	Total LSZ Acres Within 5 Miles	Total LSZ Sq Miles Within 5 Miles	LSZ Sq Miles of Visibility	% Visibility within LSZ	% Visibility Within VSA*	% Visibility Change Within VSA
Zone 4 Mohawk River Corridor	971.5145	1.52	0.06	3.75%	<b>0.05%</b> (0.09%)	-0.04%
Total VSA*	<b>71,384.51</b> (71,700.26)	<b>111.54</b> (112.03)	<b>3.84</b> (3.68)	<b>3.44%</b> (3.28%)	<b>3.44%</b> (3.28%)	0.16%

<sup>\*</sup>Numbers in bold are the updated calculated numbers and percentages for the Alternative Layout alignment. Italicized numbers in parentheses are the former numbers from the original Project alignment submitted in the Article 10 application.

# **5.0 SCENIC RESOURCE INVENTORY**

There are no new additional visual resources to account for as a result of the Alternative Layout.

# **6.0 VIEWSHED ANALYSIS RESULTS AND DISCUSSION**

An updated viewshed analysis was performed using the Alternative Layout alignment. The viewshed analysis results (Figures 1 and 2 in Attachment 2), show areas of expected visibility as a result of the alignment. For the solar arrays that have proposed tracker racking systems, the top of the panels was set at 13 feet in height above ground surface and placed within the LiDAR tree and building modeling environment. The top of panel was set at 8 feet above ground surface for those arrays that have proposed fixed panels.

The overall general discussion of analysis results is not different from Section 10.1 of the VIA in the Article 10 filing. There are few changes in areas of predicted visibility. Figure 2 in Attachment 2 shows the differences in visibility between the original alignment and the Alternative Layout alignment. There is reduced visibility in and around the parcels between Pattersonville Road and the New York State Thruway as those have been removed. With these arrays removed there will be no direct views to solar panels from the Thruway to panels that once were adjacent to the highway. As well, there will be no longer be northerly direct views to panels from nearby residences on Pattersonville Road and Bulls Head Road due to the removal of the same arrays.

There is a small amount of new visibility in open fields north of Bulls Head Road and east of Thayer Road where new panels are proposed. There is no public access in these fields and they are privately owned. Figure 2 shows there is extremely minimal to no new locations of visibility from Bulls Head Road itself as a result of the Alternative Layout. The transparency overlays of the original and Alternative Layout proposed viewsheds in Figure 2 shows that predicted visibility for the proposed Project along Bulls Head Road occurs in nearly all of the same locations compared to where visibility occurred from the original alignment. However, the view will be different in



some locations. Representative simulations VP27 and VP28 have been revised to show what the new view looks like.

New areas of visibility occur in the vicinity of Thayer Road due to the addition of panels on the newly acquired parcel at the western side of the Project. Revised viewshed analysis results indicate there is extremely little to no new visibility along Thayer Road itself, and that most new visibility occurs in adjacent fields not accessible to the public. A new simulation has been produced from Thayer Road and is presented as VP5.

# 6.1 PHOTOSIMULATION AND LINE OF SIGHT RESULTS AND DISCUSSION

Five simulations are presented in this update; three new simulations at new locations and two revised located at VP27 and VP28 (please see Attachment 3). VP27 was updated due to additional solar arrays now visible in the view as well as a change from a tracking system to fixed panels. VP28 was updated because some areas in the view that showed a tracking system under the original layout now have fixed panels in the Alternative Layout. VP5 on Thayer Road looking east is a new location and has been added to show a view towards the Project where new arrays have been located on the new parcel at the western portion of the Project.

In addition to the three simulations noted above, two additional simulations are also included that were provided in response to the Town of Florida Information Request (IR) "TOWN-1" dated April 17, 2020. The Response is dated April 27, 2020. In this IR the Town requests

"the production of photo simulations for at least one additional viewpoint from a residence located at the northern end of Bulls Head Road, and for a residence located on Persons Road".

Table 4 summarizes the new or updated Project simulations.

**Table 4. Summary Table Simulation and Line of Sight Viewpoints** 

Viewpoint	Location	View	Landscape Similarity Zone	Distance Zone	Viewer Type
27	Bulls Head Road	Updated for Alternative Layout. View N.	1,3	1	Residence, local traveler
28	Bulls Head Road	Updated for Alternative Layout. View N	1,3	1	Residence, local traveler



Viewpoint	Location	View	Landscape Similarity Zone	Distance Zone	Viewer Type
5	Thayer Road	Proximal open view from road towards fixed arrays located farthest southwest. View E.	1,3	1	Local traveler
31	Bulls Head Road	Town of Florida request IR "TOWN-1". View S.	1,3	1	Residence, local traveler
32	Persons Road	Town of Florida request IR "TOWN-1". View S.	1,3	1	Residence

# 6.1.1 Discussion of Simulations

The following discusses the visibility of the Project to viewers at or in the immediate vicinity of the photo viewpoint. Simulations are presented as sets of Existing Conditions and Proposed Conditions.

# 6.1.1.1 VP27 Bulls Head Road, View North – Florida (LSZ 1,3; Distance 0.7 miles) - Revised

This VP was originally selected to assess possible visibility from residences. It is a view from Bulls Head Road approximately 400 feet east of the intersection with Thayer Road. This view formerly showed all tracker arrays. However, this simulation has been updated to show additional arrays proposed in the view as well as a change to fixed arrays as proposed in the Alternative Layout. The view is looking north at a distance of approximately 0.7 miles. The existing view shows a contrasting pattern of light-colored fields against dark colored tree groups. Residential houses are in view in the fore to middleground and the City of Amsterdam can be seen in the left background. The proposed panels appear in the middleground within an open, light-colored field. The size and scale of the Project has a small low-profile appearance in comparison to the trees that surround the field with a horizontal linear flow that conforms to the topography. There are no proposed vertical elements from the Project that interrupt the horizon line. Contrast that the Project provides is a lateral breadth of color change from light to dark. The color contrast is apparent against the field color itself and changes the look of the middleground. However, the new color is fairly compatible against the existing trees that the panels are visually set against.



The Project appears somewhat small vertically and it is co-dominant with the existing trees in the view.

A simulation of vegetative mitigation at five years is provided. The Applicant is proposing the same vegetative screening in this area as was submitted in the Application, and is depicted on the Landscape Plan drawings included in Attachment B.

# 6.1.1.2 VP28 Bulls Head Road, View North – Florida (LSZ 1,3; Distance 0.3 miles) - Revised

Similar to VP27, VP28 photo was selected to depict potential visibility from residences. This view formerly showed all tracker arrays in the original layout. The simulation has been updated to show the arrays that have been changed from tracker to fixed as part of the Alternative Layout. This view from Bulls Head Road is looking north at approximately 0.3 miles near Leahy Road. The existing view shows mostly open land consisting of a contrasting pattern of light-colored fields against dark colored tree groups. A farm is seen in the left middleground and the City of Amsterdam can be seen behind the farm. The proposed panels appear in the middleground within open land. The size and scale of the Project has a small low-profile appearance in comparison to the trees that surround the field with a horizontal shape that conforms to the topography. There are no proposed vertical elements from the Project that interrupt the horizon line. The Project provides a lateral breadth of color change from light to dark. The color contrast the panels provide is apparent against the field and vegetation colors. The viewer is 0.4 miles closer at this location than at VP27 but the level of discernible detail is still low.

A simulation of vegetative mitigation at five years is provided. The Applicant is proposing the same vegetative screening in this area as was submitted in the Application, and is depicted on the Landscape Plan drawings included in Attachment B.

## 6.1.1.3 VP5 Thayer Road, View East – Florida (LSZ 1,3; Distance 0.2 miles)

This new simulation is provided as a representative view showing arrays on a newly acquired parcel at the western part of the Project as part of the Alternative Layout. VP5 is on Thayer Road looking east towards the new parcel and is located approximately 0.2 miles from the fence line. The arrays in view are consistent with horizontal pattern of the field and ridgeline in view by exhibiting a similar narrow horizontal shape. New color is introduced, but color contrasts are weak to moderate as color values are similar to that of the wood line and background ridge. The panels fall well under the horizon and do not interrupt the skyline. Due to proximity and the nature of the existing similar horizontal elements in the view, the Project is subordinate in the view.

The Applicant is proposing vegetative screening in this area as depicted on the Landscape Plan drawings included in Attachment B. A simulation of vegetative mitigation at five years is provided



and shows a visual buffer compatible with the existing landscape that sufficiently blocks views of the Project at the five-year growth stage. As part of the landscaping plan, several of the coniferous tree species such as Balsam Fir (Abies balsamea), White Spruce (Picea glauca), and Northern White Cedar (Thuja occidentalis) will provide year round mitigation of views.

# 6.1.1.4 VP31 Bulls Head Road Road, View South – Florida (LSZ 1,3; Distance 0.3 miles)

VP31 is provided as a request from the Town of Florida to show an additional view farther north along Bulls Head Road in the vicinity of a residence. As noted in the simulation, much of the Project is behind existing distant trees but lower on a slope. This location was chosen as it shows a portion of the Project through an available gap in the tree line looking south. The arrays that are visible provides some visual contrast with new form, line, and color introduced into the environmental. However, the partial views of the panels at this location are subordinate in the view due to proximal distance and blocked sight lines.

The Applicant is proposing vegetative screening in this area as depicted on the Landscape Plan drawings included in Attachment B. A simulation of vegetative mitigation at five years is provided and shows a visual buffer integrating seamlessly with the existing landscape that blocks views of the Project at the five-year growth stage. As part of the landscaping plan, several of the coniferous tree species such as Balsam Fir (Abies balsamea), White Spruce (Picea glauca), and Northern White Cedar (Thuja occidentalis) will provide year round mitigation of views.

# 6.1.1.5 VP32 Persons Road, View South – Florida (LSZ 1,3; Distance 312 feet)

VP32 photo is provided as a request from the Town of Florida to show a view from Persons Road. The view faces south to an open field and the viewer is approximately 312 feet from the fence line. Existing conditions shows large homogeneous uninterrupted simple shapes of horizontal field or distant forest. The sight lines under proposed conditions without mitigation show uninterrupted views of solar panels. The arrays hold a shape and pattern similar to the horizontal sweep of the foreground as well as background vegetation. Due to proximity, the Project is apparent as a new element in the landscape but it has a low profile. A few of the arrays interrupt the horizon line in the left part of the simulation. Color contrast is moderate against the summer vegetation.

The Applicant is proposing vegetative screening in this area as depicted on the Landscape Plan drawings included in Attachment B. A simulation of vegetative mitigation at five years is provided and shows a visual buffer compatible with the existing landscape that blocks and moderate views of the Project at the five-year growth stage. As part of the landscaping plan, several of the coniferous tree species such as Balsam Fir (Abies balsamea), White Spruce (Picea glauca), and Northern White Cedar (Thuja occidentalis) will provide year round mitigation of views..



## 6.2 PHOTOSIMULATION RATING RESULTS

Contrast ratings for the new simulations are provided for the unmitigated versions. The raw evaluation forms for each viewpoint can be found in Attachment 4. Table 5 below summarizes the final scores and averages for Part 1 Visual Contrast, Part 2 Viewpoint Sensitivity and Part 3 Existing Scenic Quality for three new simulations. Please note that although VP27 and VP28 are updated simulations, panelist opinion and ratings did not change for these two simulations.

**Table 5. Visual Impact Rating Results** 

\/D	l Al		trast Ra anelist	_		trast Ra Panelist	_		trast Ra anelist	_	Avg	Mean	Avg	Mean	Avg	Mean
VP	Location	Part 1	Part 2	Part 3	Part 1	Part 2	Part 3	Part 1	Part 2	Part 3	Part 1	Dev* Part 1	Part 2	Dev* Part 2	Part3	Dev* Part 3
5	Thayer Rd	9	5	2	8.5	6.5	1.5	8.5	6	2	8.7	0.2	5.8	0.6	1.8	0.2
31	Bulls Head Rd	8	5.5	2	8.5	7	2	9.5	6	2	8.7	0.6	6.2	0.6	2.0	0.0
32	Persons Rd	18	4	1.5	17	6.5	1.5	16	5.5	1.5	17.0	0.7	5.3	0.9	1.5	0.0

# 6.2.1 Part 1 Contrast Rating

Part 1 Contrast as outlined in Section 9.0 of the VIA Article 10 Application, rates proposed visual change with respect to compositional elements such as newly introduced line, shape, color, project scale, broken horizon lines, etc. Under Part 1 there are 9 categories to rate where the total rating ranges from 0 to 27 as follows:

<b>Contrast Rating Scale</b>					
0	None				
4.5					
9	Weak				
13.5					
18	Moderate				
22.5					
27	Strong				

Average Part 1 contrast ratings of the simulations submitted in the VIA of the Application ranged between 10.2 to 14.7. As noted in Table 5 for Part 1, new simulations VP5 and VP31 have been assigned a weak rating of 8.7 and are now the simulations with the lowest contrast. New



simulation VP32 was given a moderate contrast rating of 17 and supersedes VP15c (14.7) as the simulation with the highest Part 1 contrast rating.

# 6.2.2 Part 2 Viewer Sensitivity

There are 8 categories under Part 2 to rate where the total rating ranges from 0 to 24 as follows:

Contrast Ra	<b>Contrast Rating Scale</b>					
0	None					
4						
8	Weak					
12						
16	Moderate					
20						
24	Strong					

Part 2 takes into account viewer sensitivity, in particular if the VP falls within or has a view of an existing visual receptor as well as the character of viewer groups such as number of viewers, duration of view, presence of existing development, etc.

Average Part 2 contrast ratings of the simulations submitted in the VIA of the Article 10 filing were assigned weak ratings and ranged between 4.2 to 7.5. New simulations VP5, VP31, and VP32 fall within the previous range and were rated weak as well, with ratings of 5.8, 6.2, and 5.3, respectively.

## 6.2.3 Part 3 Scenic Quality

Part 3 Scenic Quality is a standalone single rating that assesses the overall scenic quality of the VP's existing conditions. Here there is no evaluation of visual change but a simple appraisal of the scenic quality of the view. A rating of 1 is weak; 2 is moderate; 3 is strong.

Scenic quality ratings of the simulations submitted in the VIA of the Article 10 filing ranged between 1.3 and 2.2. VP26 was formerly rated the highest with an average scenic quality value of 2.2 and still remains the simulation with the highest scenic quality despite the addition of three new simulations. The simulation formerly with the lowest scenic quality rating was VP30 at 1.3 and still remains the lowest. As Table 5 notes, new simulation VPs 5 and 32 were rated moderately weak rated at 1.8 and 1.5, respectively. VP31 was given a moderate scenic quality rating of 2.0.

# 7.0 VISUAL IMPACTS DURING CONSTRUCTION

Conclusions for visual impacts during construction do not change.



# 8.0 CONCLUSIONS – VISUAL IMPACTS DURING OPERATION

The viewshed analysis results and tabulated percentages of predicted visibility noted in Tables 1 and 3 makes it clear that;

- there is minimal expected visibility (3.4%) within the overall VSA but there would be limited areas from which the Project would be visible and, in contrast, a multitude of areas from which it would not be seen. There is existing topography and many tree groups surrounding the Project that will block views. Table 1 indicates as expected, that the highest percentage of visibility will occur within Distance Zone 1 within one-half mile.
- 2. The changes in the amount of visibility within the VSA as a result of the Alternative Layout Project alignment is less than 1% and is not significant.
- 3. The areas of greatest change in visibility as a result of the Alternative Layout Project alignment occurs in the immediate vicinity of the Project within Distance Zone 1 of one-half mile. Few new areas of visibility occur in Distance Zones 2 and 3 outside of one-half mile, and that most predicted visibility for the proposed Project occurs in nearly all of the same locations compared to where visibility was present from the original alignment.

Updated VP27 and VP28 simulations and new additional locations for simulations at VP5, 31, and 32 have been provided and can be viewed in Attachment 3. Simulation views provided in the Application VIA as listed below will not change:

- VP12: No change of view due to Alternative Layout. View is of fixed arrays located south of Bulls Head Road.
- VP15c: No change of view due to Alternative Layout. View is of fixed arrays adjacent to Mohr Road.
- VP26: No change of view due to Alternative Layout. View is from Swart Hill Road looking towards fixed arrays located near Pattersonville and Persons Road.
- VP29:No change in view due to Alternative Layout. View is of fixed arrays from Pattersonville Road.
- VP30: No change in view due to Alternative Layout. View is of fixed arrays from Thayer Road looking westerly.

Contrast ratings of unmitigated updated and new simulations were performed. Ratings for updated VP27 and VP28 simulations did not change. There were no strong contrasts assigned to the views. Average Part 1 and Part 2 contrasts for new simulations at VP5, VP31, and VP32 were given a weak rating, except for VP32 which was assigned a moderate Part 1 rating. Visual contrasts are already weak to moderate in the unmitigated state and the proposed vegetative mitigation for the Project will provide additional year round visual screening and will further reduce contrasts.



While the results of the visibility analyses in this Updated VIA either show minor changes in predicted visibility or revised or new locations with a view of the Project, the overall conclusions regarding visual impacts during operation as cited in Section 14.0 of the Application do not change. For ease of reference, the principal conclusions from the Application are reiterated below:

The arrays will be located on parcels of land currently used for agricultural purposes. The general visual appearance of the low-profile panels as a group contribute to a homogenous form at distance which consists of a strong new horizontal pattern similar to the background forested areas and field edges found in many views. The horizontal shapes en masse in many instances provides a visual flow that is repeated or similar to what is in the landscape as the panels follow the existing contours. Color differences between the Project and the landscape may provide some contrast but will vary throughout the seasons. Overall Project contrast and the overall visual effect will vary depending on the extent of panel visibility (partial or full), distance of the arrays from the viewer, and if the panels are seen in the context of other existing noticeable modifications to the local natural landscape. The Applicant is proposing to install landscaping along portions of the Project to provide nearby residences with screened views towards the Facility. Landscaping will consist of a variety of evergreen trees and shrubs that will provide year-round screening.

# And,

- The towns that fall within the 5-mile VSA are rural with an agricultural economy.
   Agricultural practices and revenue will not be degraded in the region. Farming practices
   will continue on portions of the Project Area not utilized for the Project Components and
   in fact, participating landowners will continue to receive consistent income throughout
   the economic useful life of the Project.
- Project Facilities are set back from property lines to both reduce visibility and to not disturb surrounding agricultural activities on adjacent parcels.
- The AC collection lines will be placed underground for the entirety of their length and installed primarily via direct trenching with some portions to be proposed via horizontal direction drill (HDD) in order to avoid wetland resources and roadways.
- The Project does not always appear as a dominant feature in a view and due to limited and/or long-range visibility, it should not interfere with the general enjoyment of recreational resources in the area.
- The Applicant has employed reasonable mitigation measures in the overall design and layout of the proposed Project so that it fits reasonably well into the available parcels and landscape.



- The Project does not have an adverse effect on a known listed scenic vista.
- The Project does not damage or degrade existing scenic resources.
- The Project will not impede the use of recreational activities, including the Mohawk River.
- The Project does not create a new source of substantial light which would adversely affect
  nighttime views in the area. Glare from the solar modules and associated equipment
  would be negligible as they would consist of a non-reflective coating and would be at least
  partially screened by the proposed fencing and perimeter landscaping.

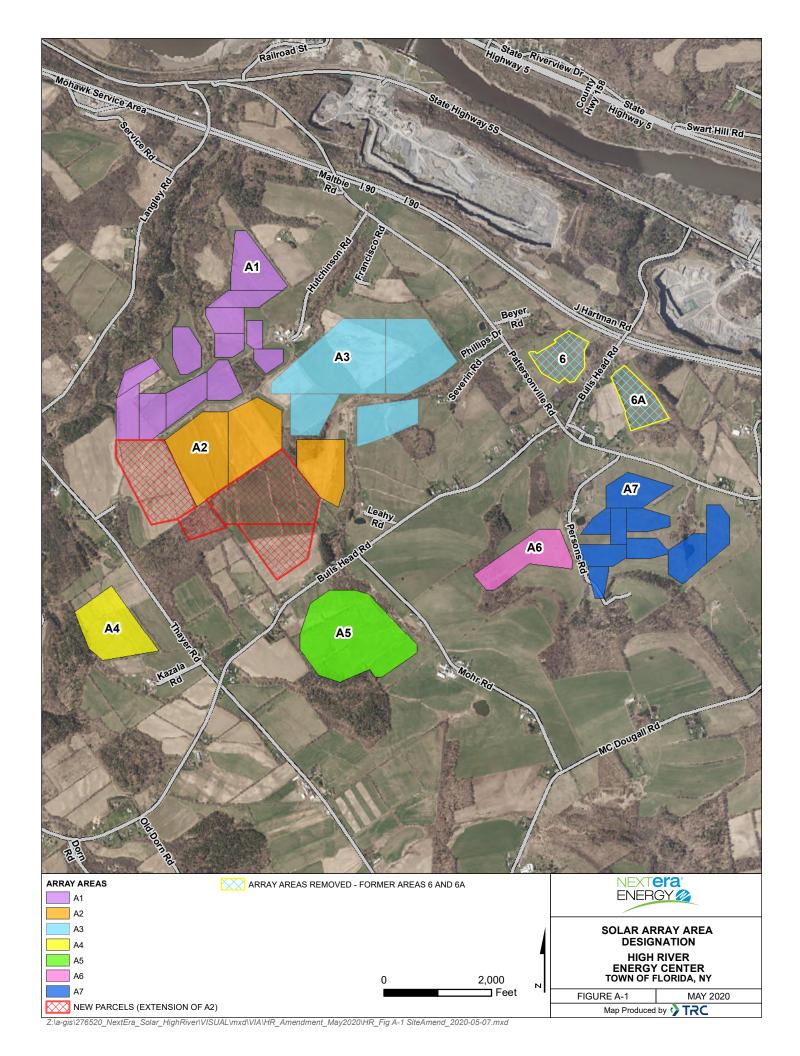
# **9.0 GLARE**

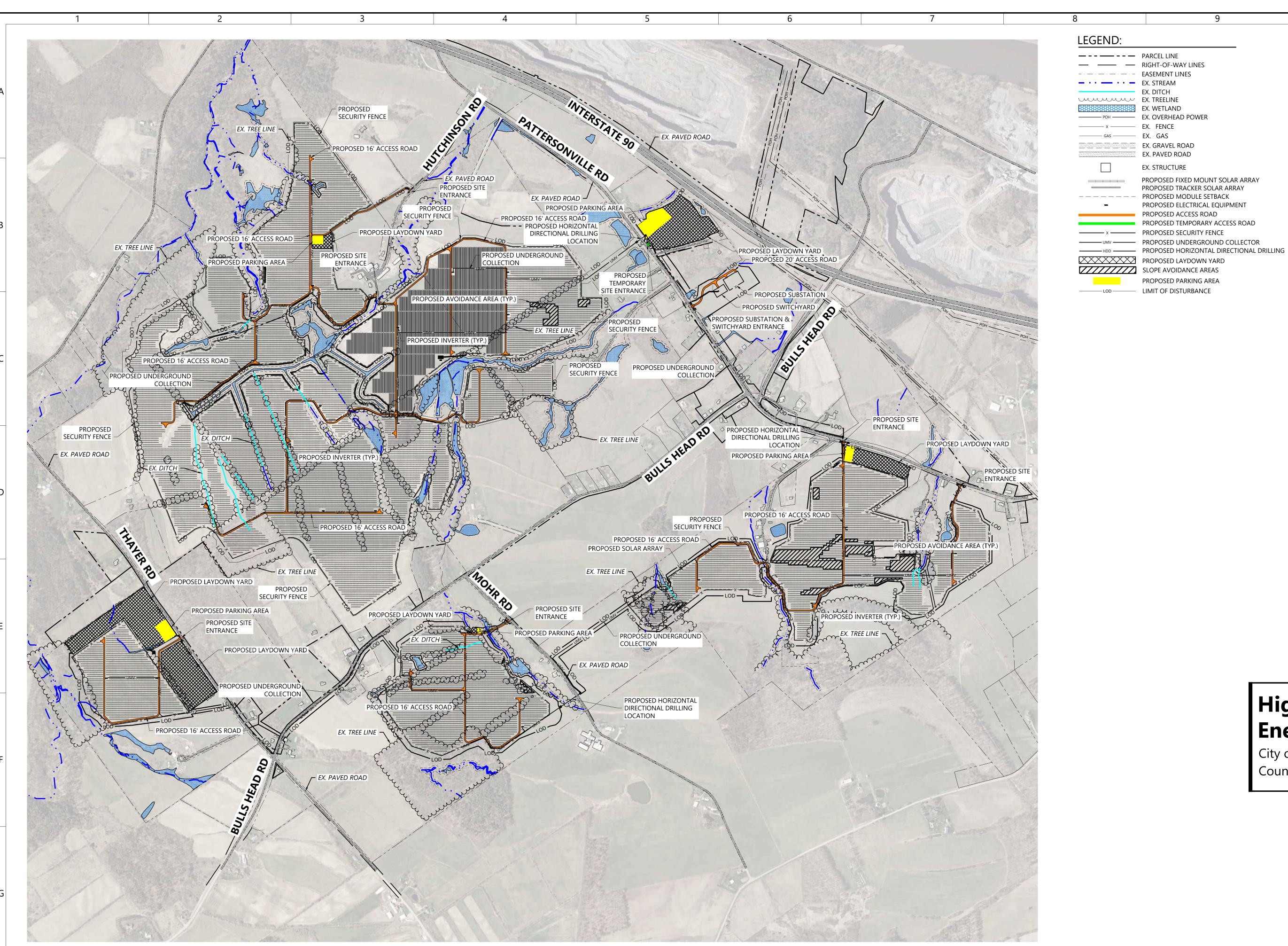
A Glint and Glare Analysis was performed for the Alternative Layout in order to identify any potential impacts on nearby residences and roads. Based on the results of the analysis and the proposed mitigation measures, no significant impacts from glare are expected as a result of the Project's Alternative Layout. Refer to the Attachment D for details on the glint and glare analysis.

# HIGH RIVER ENERGY PROJECT ARTICLE 10 EXHIBIT 24 UPDATE FOR ALTERNATIVE LAYOUT

**SITE PLAN** 

**ATTACHMENT 1** 







Phone (952) 937-5150 12701 Whitewater Drive, Suite #300 Fax (952) 937-5822 Minnetonka, MN 55343 westwoodps.com

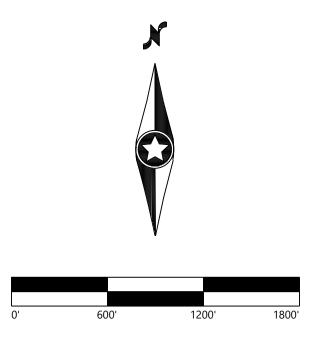
Westwood Surveying and Engineering, P.C.

NEXTERA \*
ENERGY

700 Universe Blvd, Juno Beach, FL 33408

# DATE COMMENT

A 05/15/20 ISSUED FOR REVIEW



# **High River Solar Energy Center**

City of Amsterdam, Montgomery County, New York

Overall Plan

PRELIMINARY
NOT FOR CONSTRUSTION
ISSUED FOR PERMIT

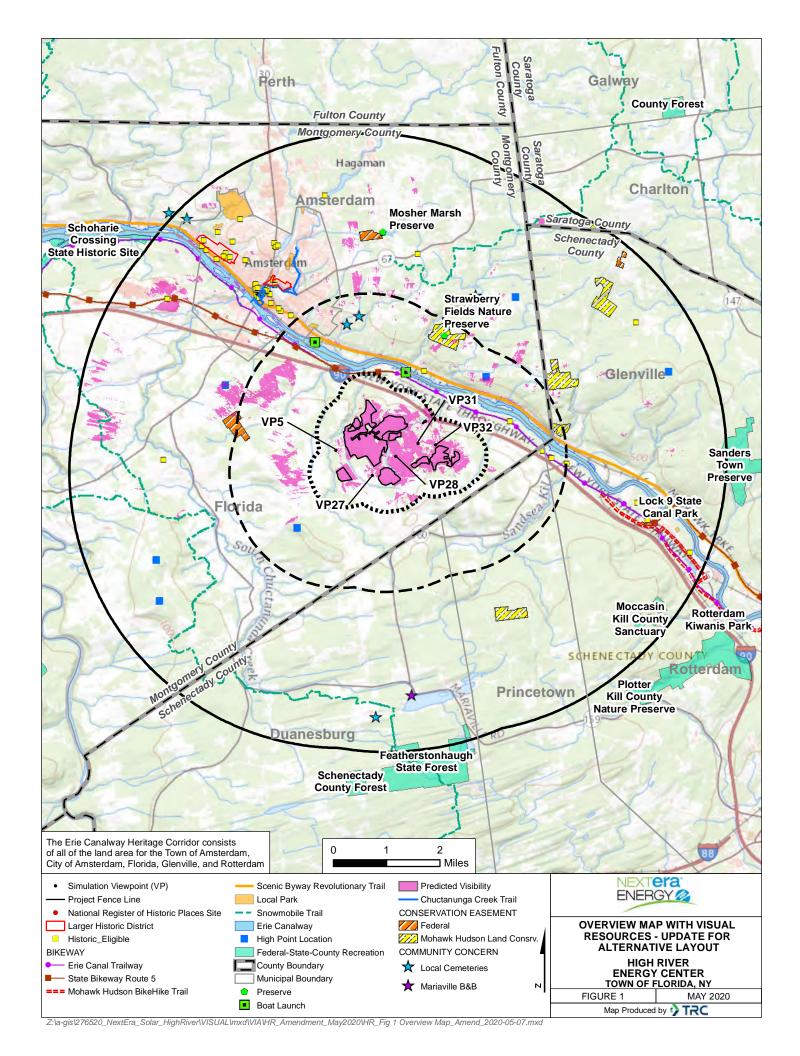
05/15/2020

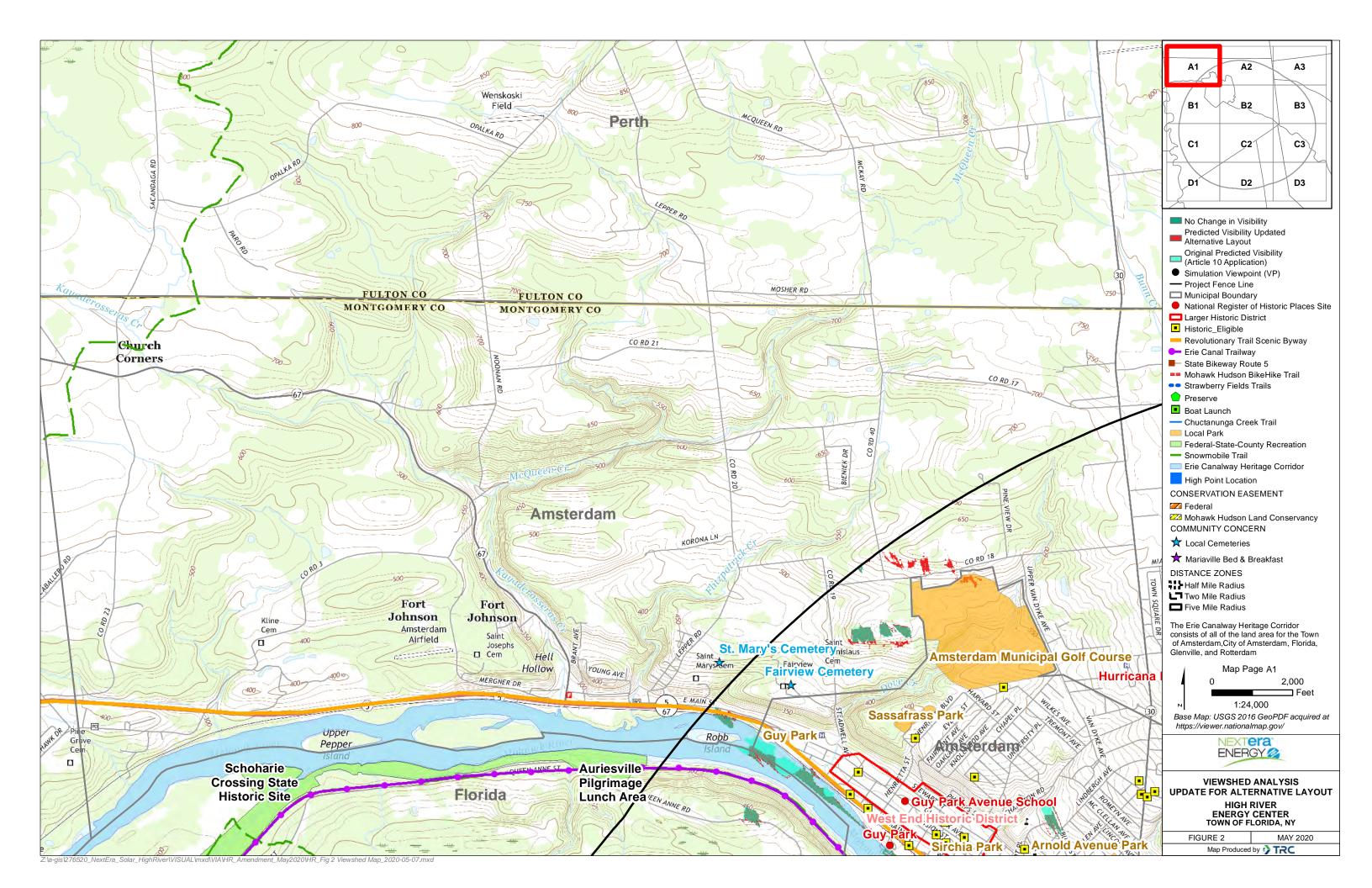
SHEET: C.200

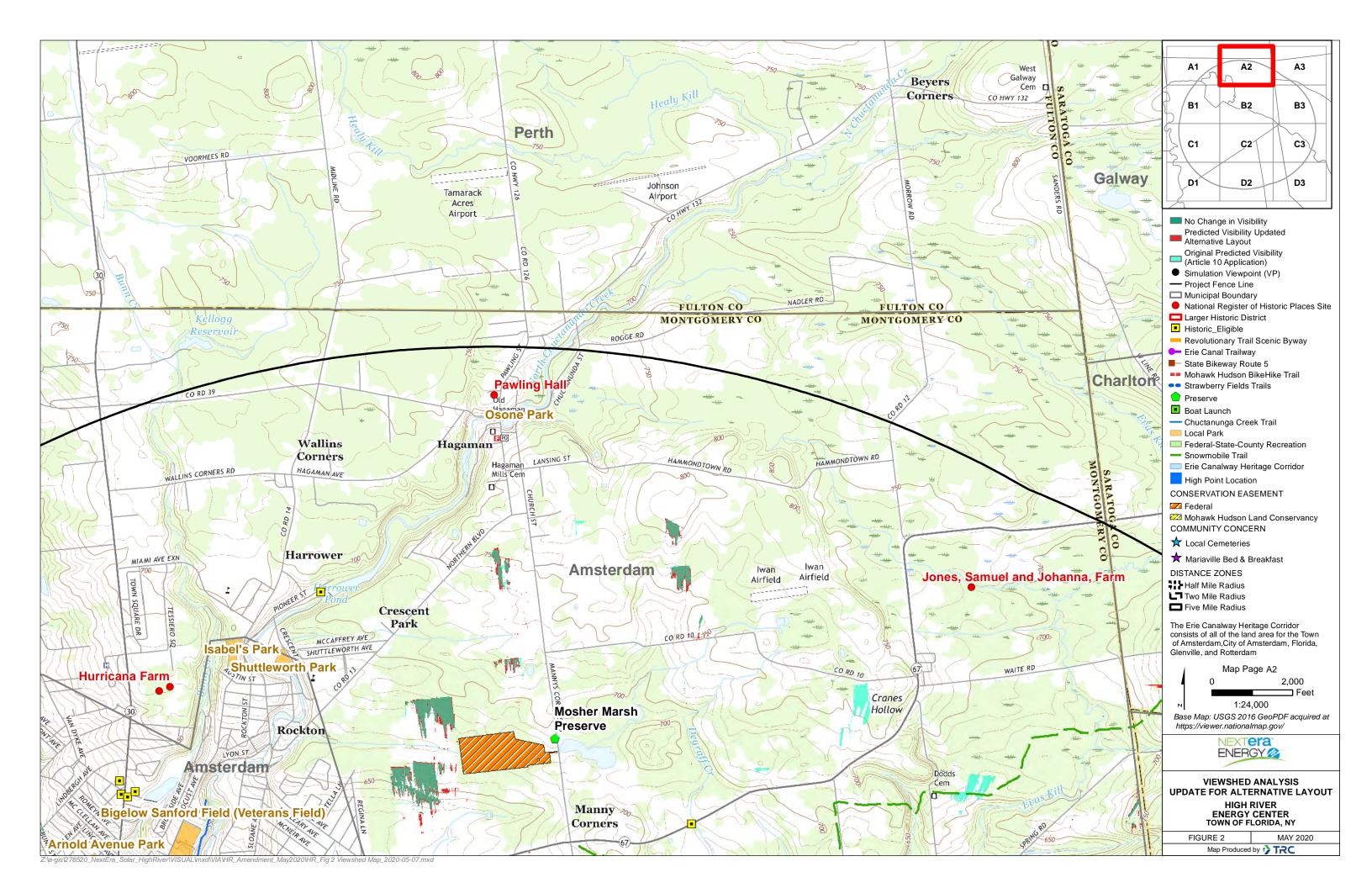
# HIGH RIVER ENERGY PROJECT ARTICLE 10 EXHIBIT 24 UPDATE FOR ALTERNATIVE LAYOUT

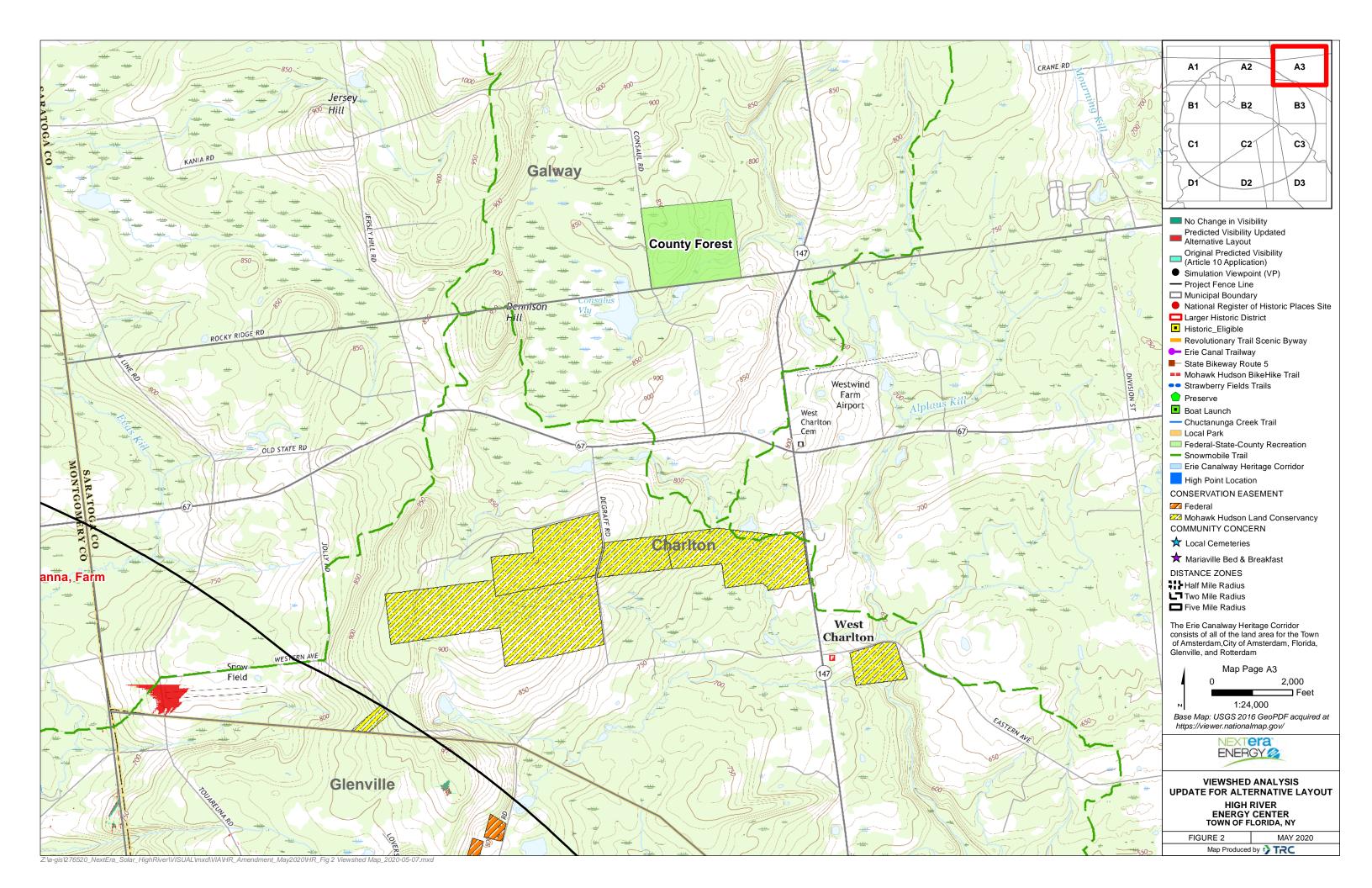
**MAPS** 

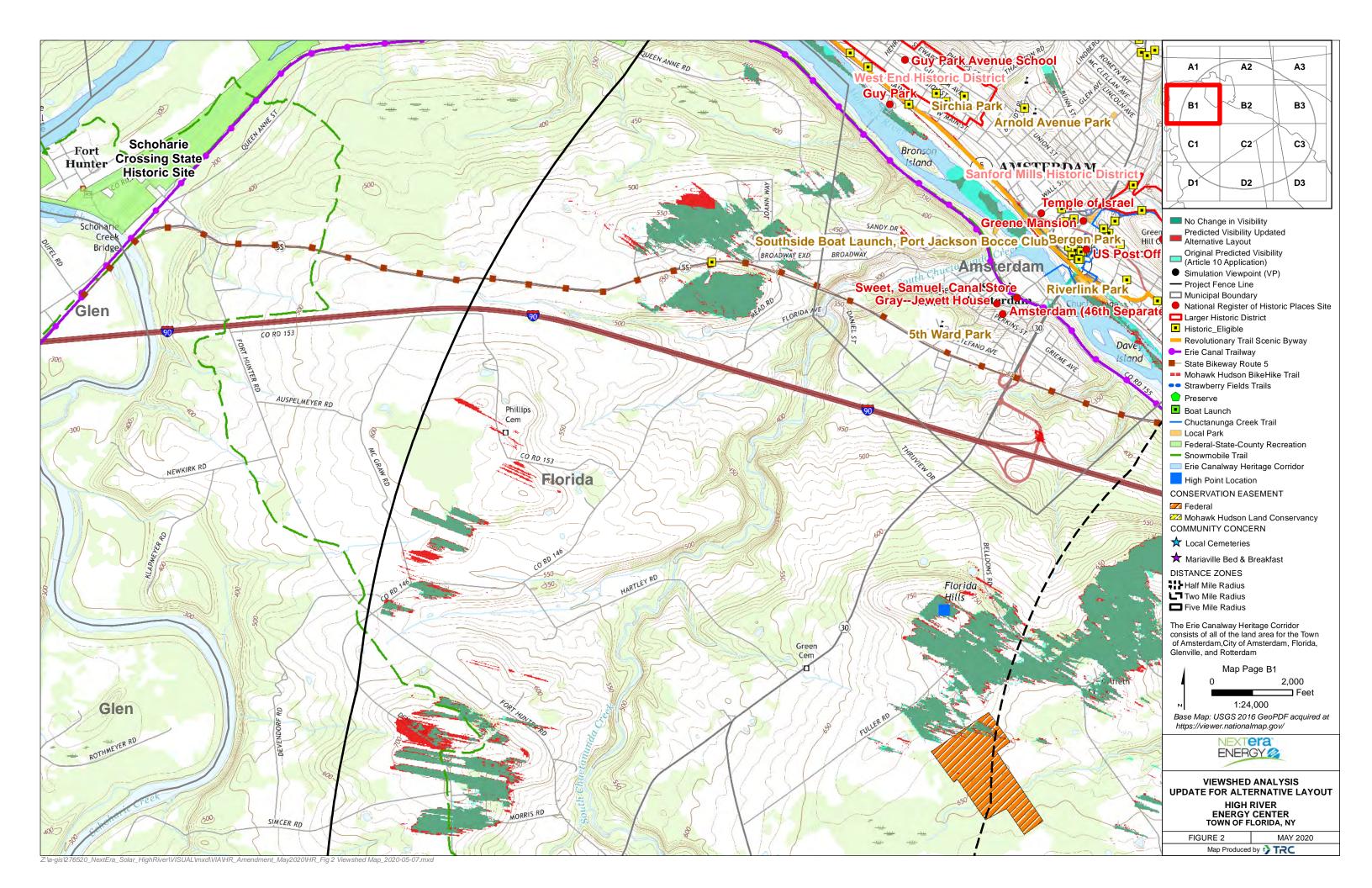
**ATTACHMENT 2** 

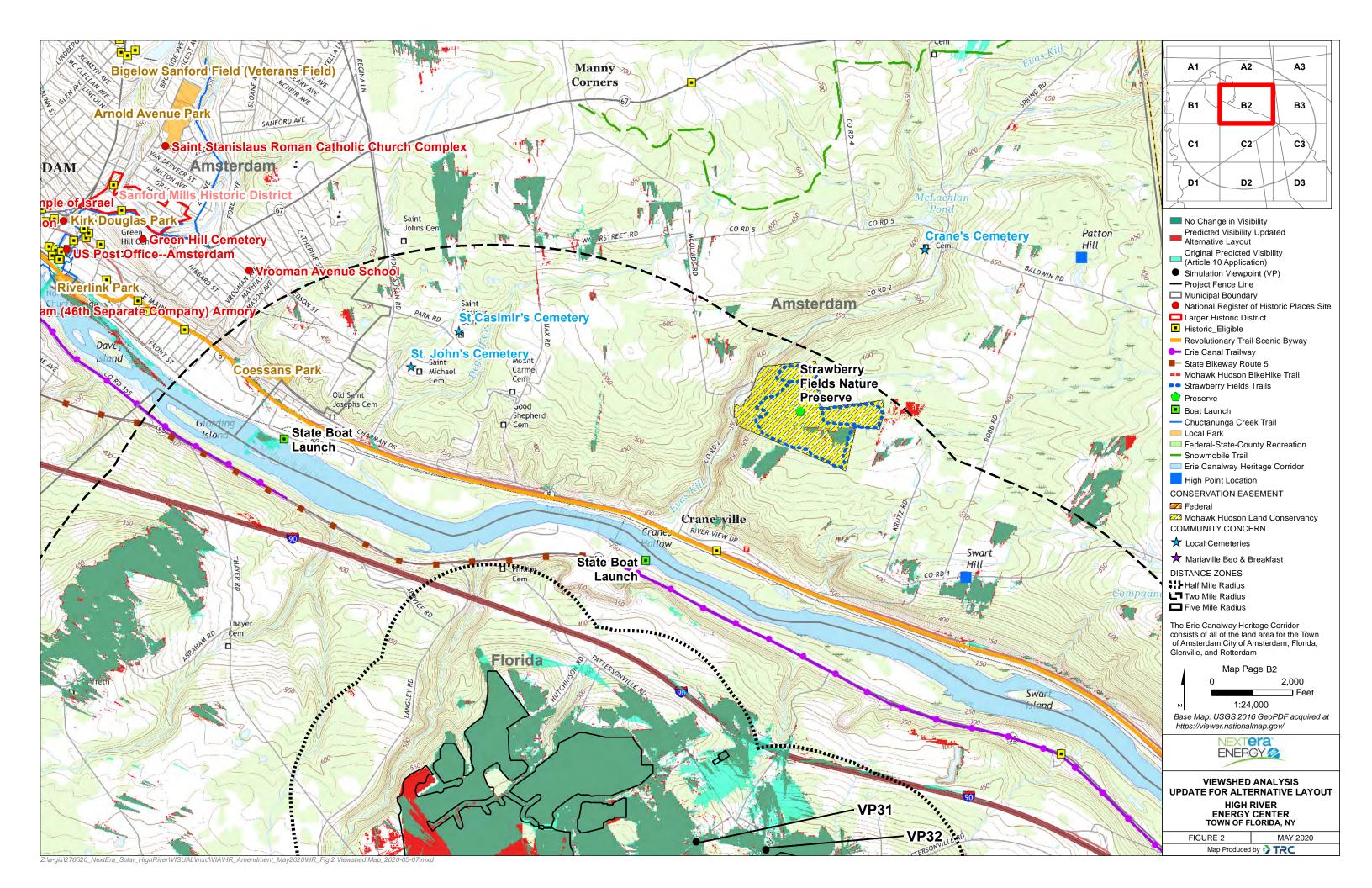


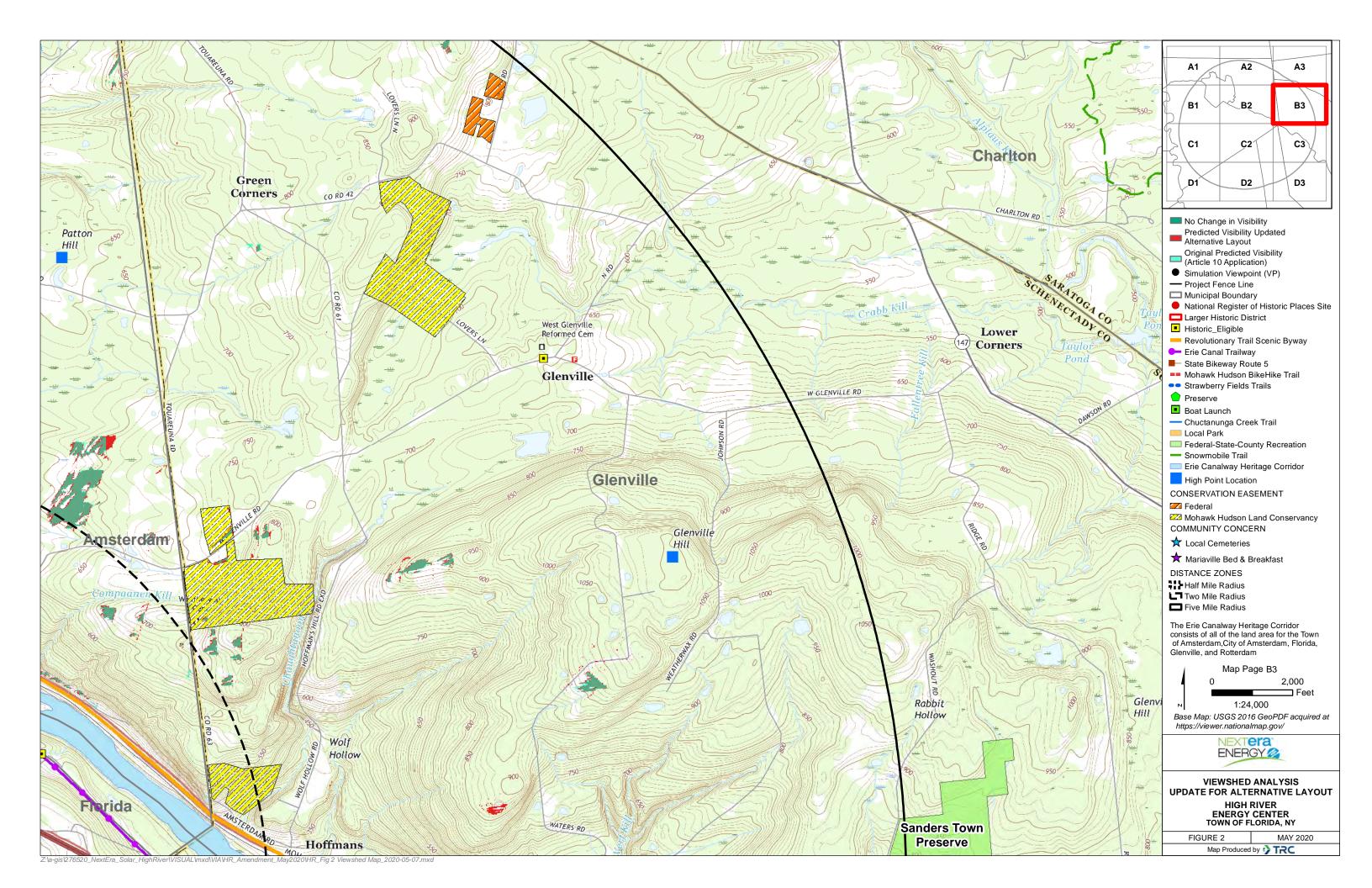


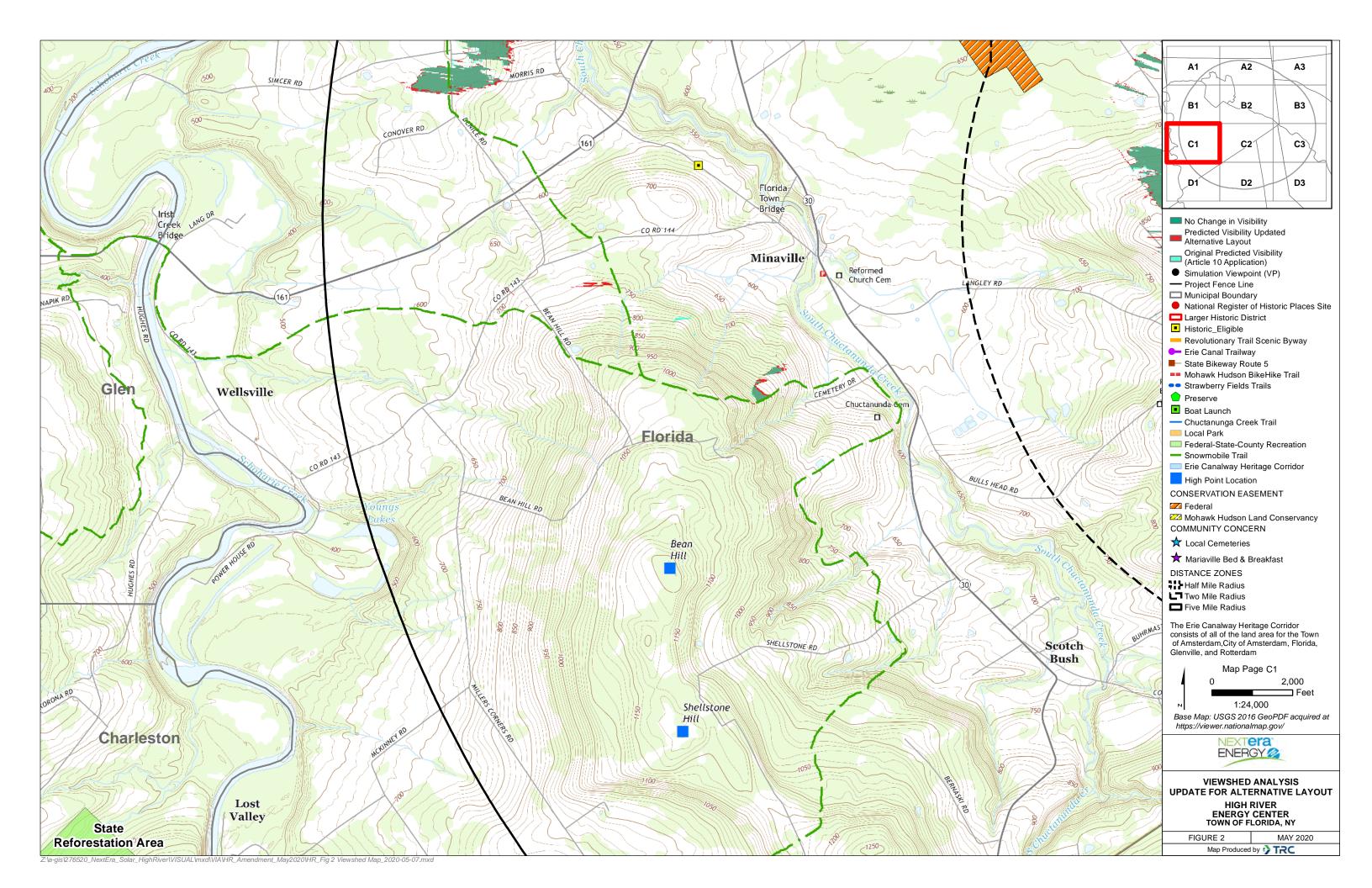


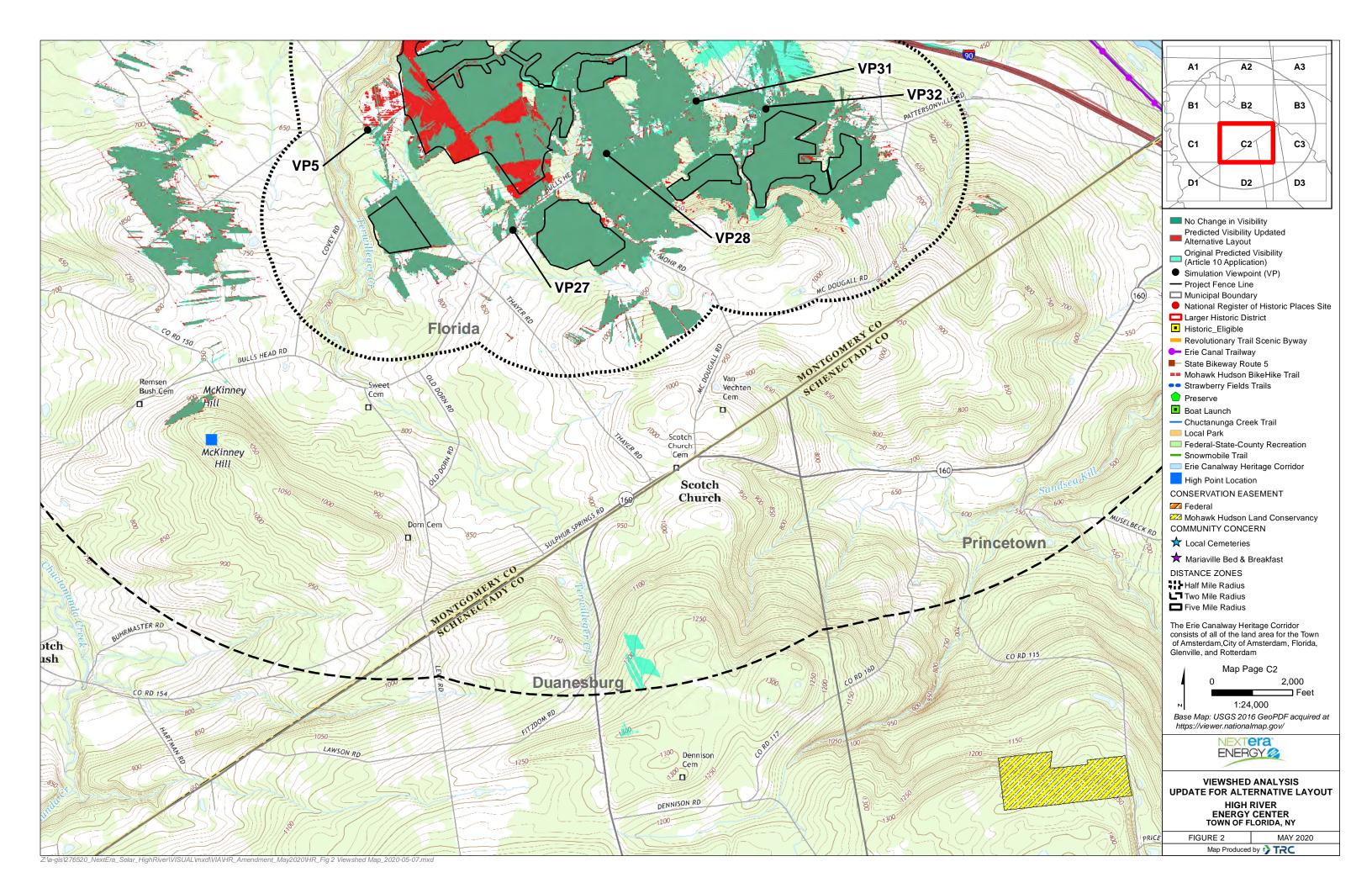


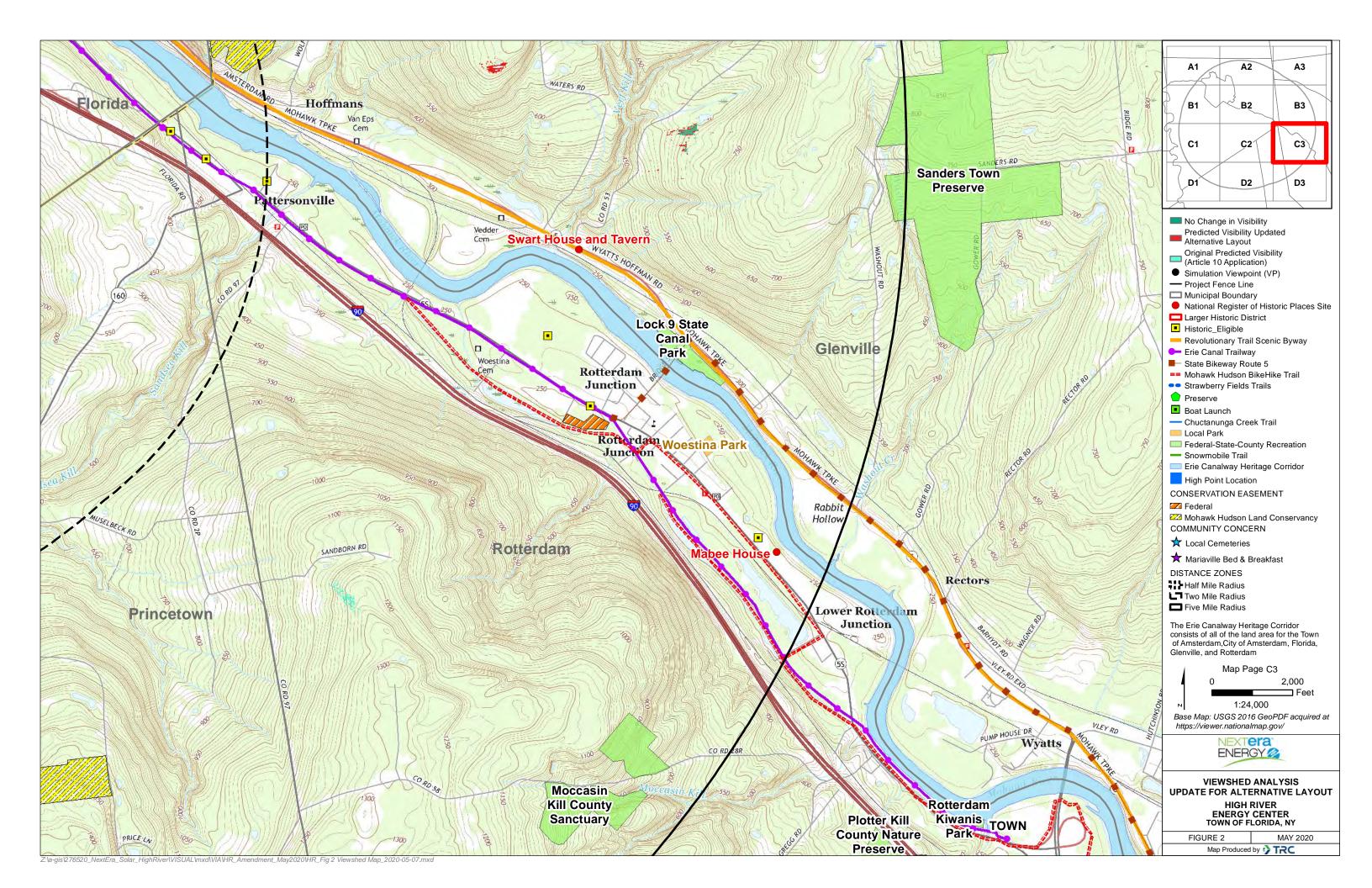


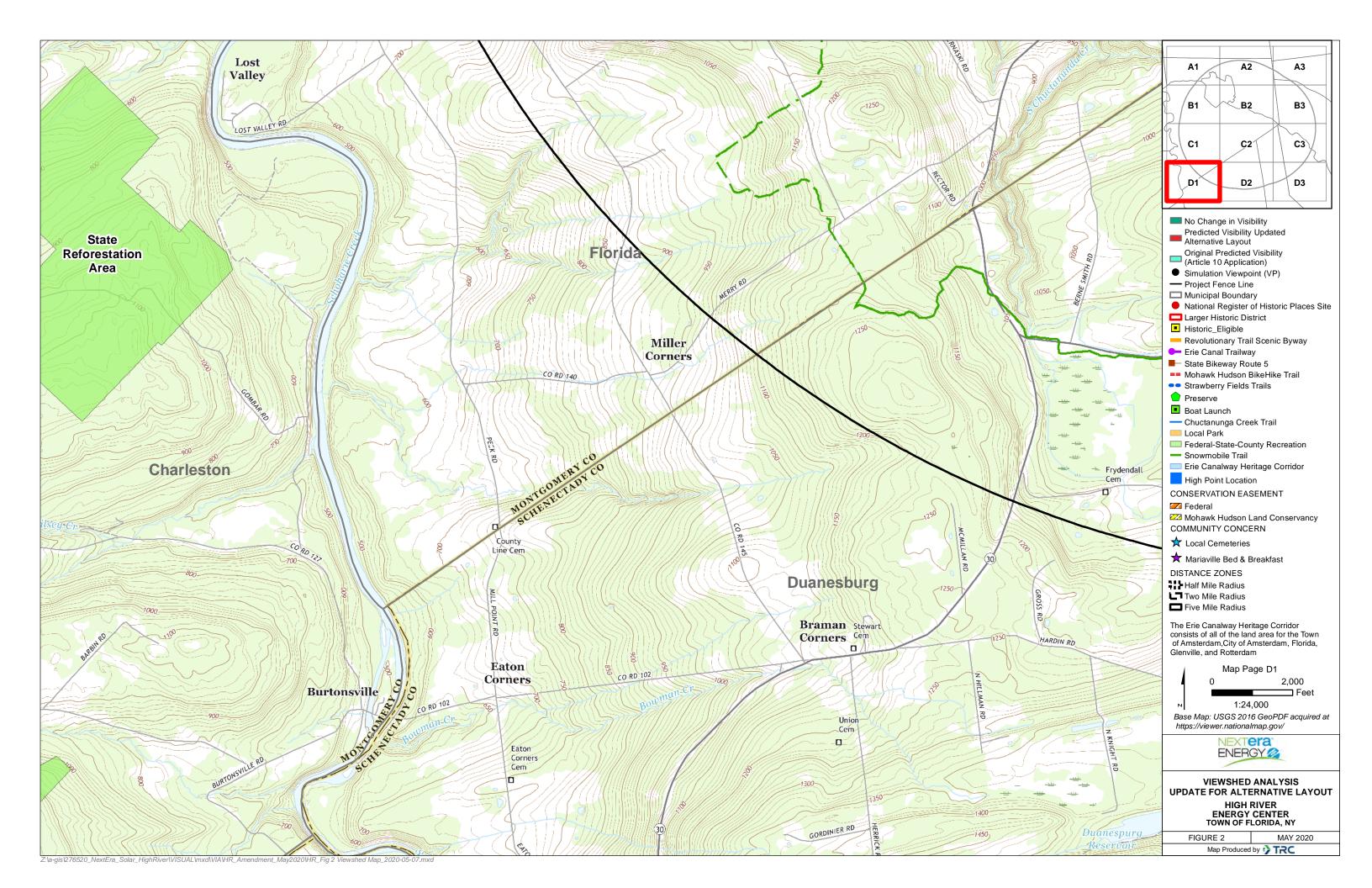


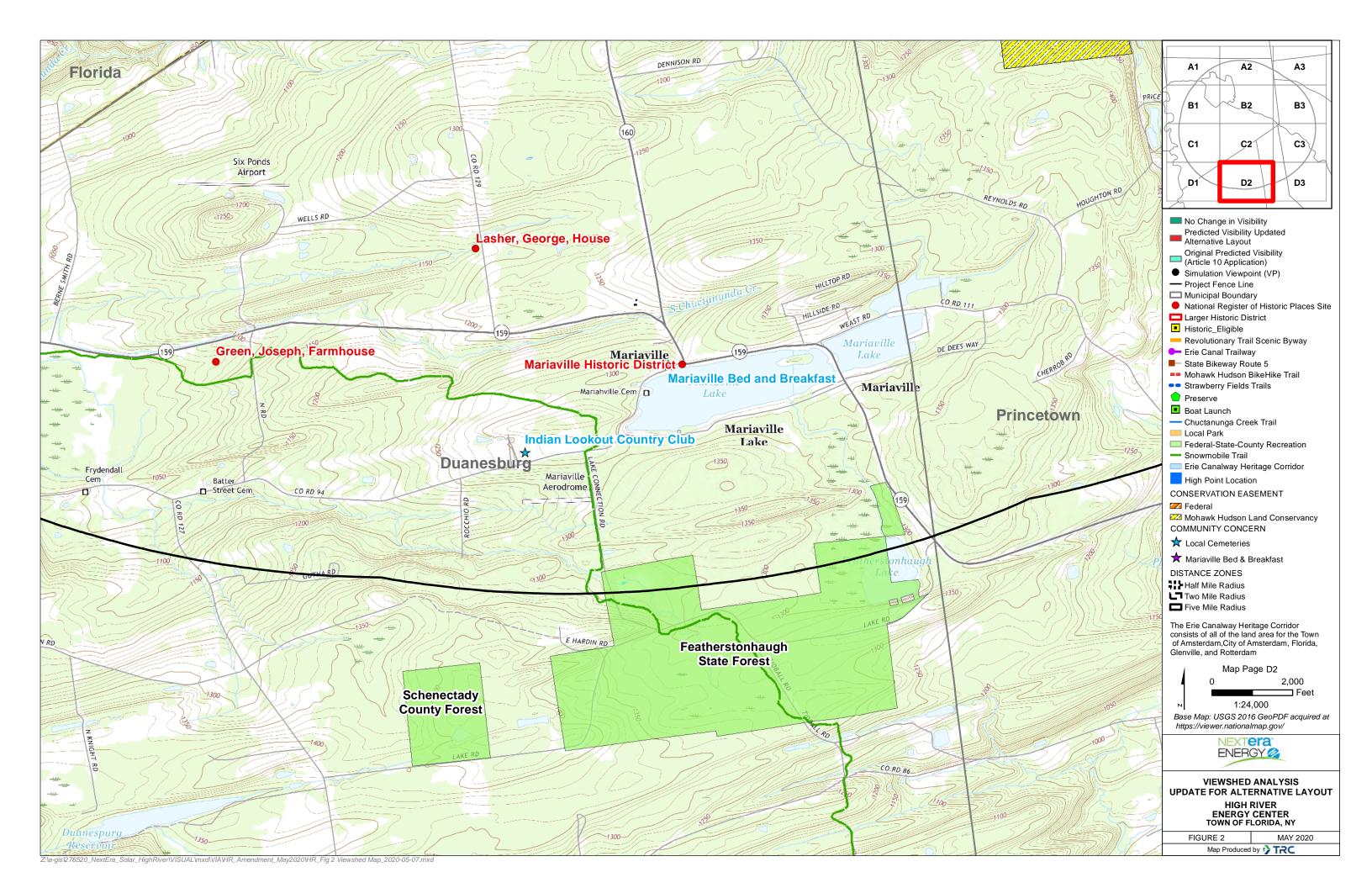


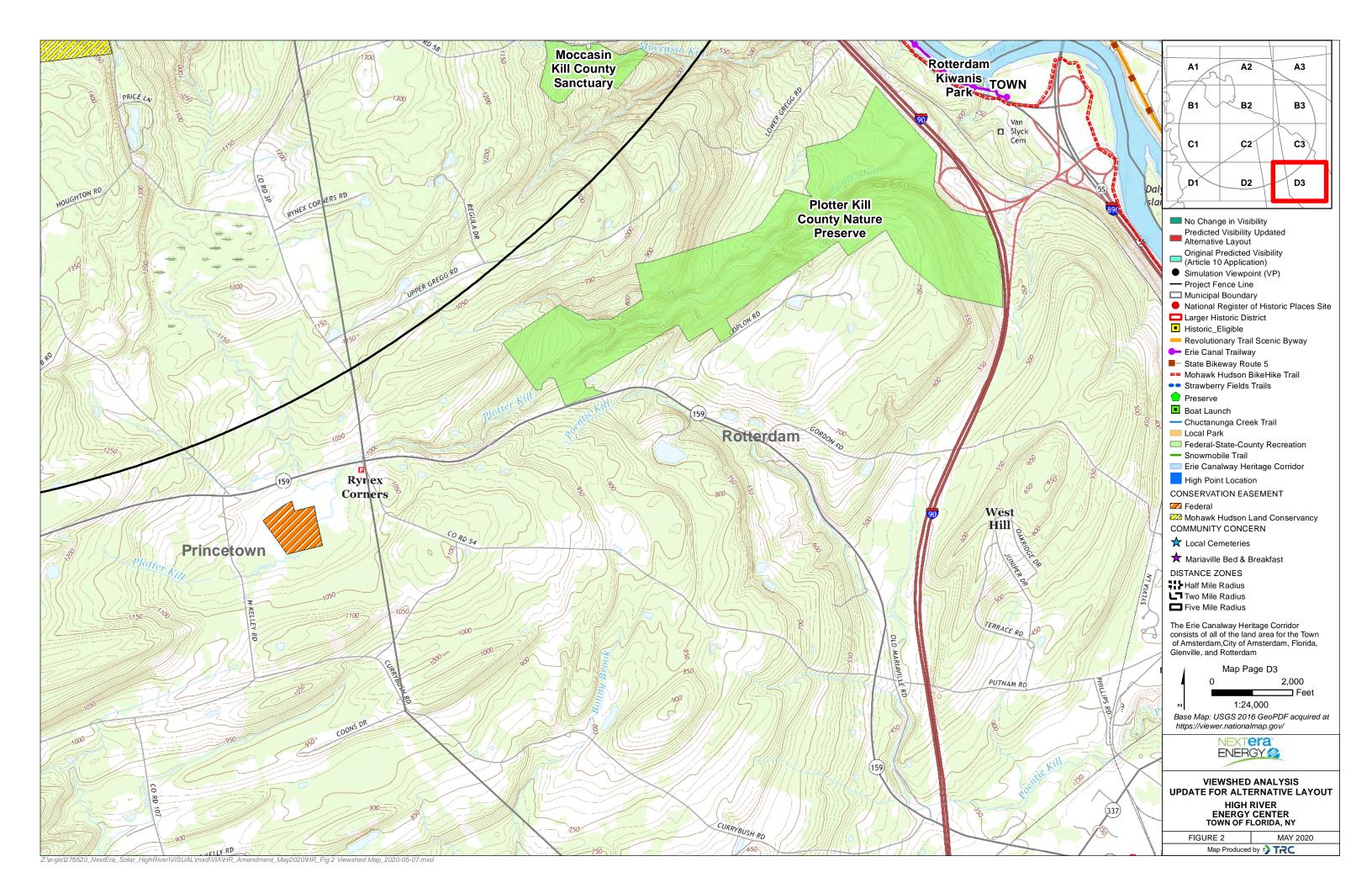












# HIGH RIVER ENERGY PROJECT ARTICLE 10 EXHIBIT 24 UPDATE FOR ALTERNATIVE LAYOUT

**ATTACHMENT 3** 

**SIMULATIONS** 



**Viewpoint Location Aerial** 



**Viewpoint Location Topo** 





Viewpoint Coordinates in	582177.9 E
NY State Plane East	1479738.4 N
Viewpoint Location	Thayer Rd
Viewer Elevation (ft msl)	658
Distance to Fenceline	0.2 miles
Direction of View	E
Date	4.23.2018
Time	11:56 am

High River Energy Center Update for Alternative Layout Florida, New York Visual Simulation of Project May 2020



# **Proposed Conditions**



**Proposed Conditions – Mitigation at 5 Years** 



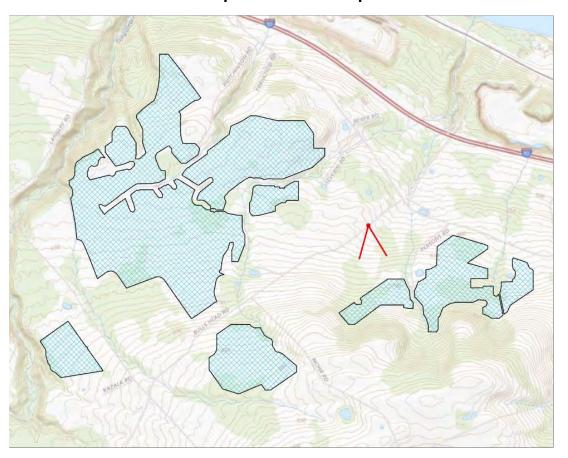




**Viewpoint Location Aerial** 



**Viewpoint Location Topo** 





Viewpoint Coordinates in	590320.4 E
NY State Plane East	1480458.4 N
Viewpoint Location	Bulls Head Rd
Viewer Elevation (ft msl)	599
Distance to Fenceline	0.28 miles
Direction of View	S
Date	6.18.2019
Time	1:21 pm





**Proposed Conditions – Mitigation at 5 Years** 







**Viewpoint Location Aerial** 



**Viewpoint Location Topo** 





Viewpoint Coordinates in	592043.1 E
NY State Plane East	1480265.9 N
Viewpoint Location	Persons Rd
Viewer Elevation (ft msl)	593 feet
Distance to Fenceline	275 feet
Direction of View	S
Date	6.18.2019
Time	12:52 pm



# **Proposed Conditions**



**Proposed Conditions – Mitigation at 5 Years** 







**Viewpoint Location Topo** 



Viewpoint Coordinates in	585781.37 E
NY State Plane East	1477259.07 N
Viewpoint Location	Bulls Head Rd
Viewer Elevation (ft msl)	842
Distance to Fenceline	0.7 miles
Direction of View	North
Date	28 mm
Time	1.8.2019/11:47am









**Viewpoint Location Topo** 



Viewpoint Coordinates in	585781.37 E
NY State Plane East	1477259.07 N
Viewpoint Location	Bulls Head Rd
Viewer Elevation (ft msl)	842
Distance to Fenceline	0.7 miles
Direction of View	North
Date	28 mm
Time	1.8.2019/11:47am









**Viewpoint Location Topo** 



Viewpoint Coordinates in	585781.37 E
NY State Plane East	1477259.07 N
Viewpoint Location	Bulls Head Rd
Viewer Elevation (ft msl)	842
Distance to Fenceline	0.7 miles
Direction of View	North
Date	28 mm
Time	1.8.2019/11:47am

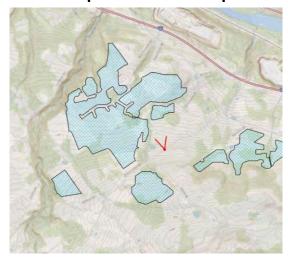








**Viewpoint Location Topo** 



Viewpoint Coordinates in	588098.56
NY State Plane East	1479149.98
Viewpoint Location	Bulls Head Rd
Viewer Elevation (ft msl)	712
Distance to Fenceline	0.3 miles
Direction of View	North
Date	28 mm
Time	1.8.2019/12:05pm









**Viewpoint Location Topo** 



Viewpoint Coordinates in	588098.56
NY State Plane East	1479149.98
Viewpoint Location	Bulls Head Rd
Viewer Elevation (ft msl)	712
Distance to Fenceline	0.3 miles
Direction of View	North
Date	28 mm
Time	1.8.2019/12:05pm

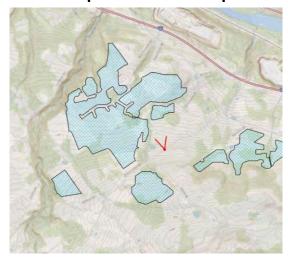








**Viewpoint Location Topo** 



Viewpoint Coordinates in	588098.56
NY State Plane East	1479149.98
Viewpoint Location	Bulls Head Rd
Viewer Elevation (ft msl)	712
Distance to Fenceline	0.3 miles
Direction of View	North
Date	28 mm
Time	1.8.2019/12:05pm





# HIGH RIVER ENERGY PROJECT ARTICLE 10 EXHIBIT 24

#### **UPDATE FOR ALTERNATIVE LAYOUT**

## **SIMULATION CONTRAST RATINGS**

#### **ATTACHMENT 4**



Project: High River Energy Center	Date: 5/14/2020	
Viewpoint Number: 5	Preparer: J.Bartos	
Viewpoint Location: Florida		
Viewpoint Description: view from Thayer Road, view	east	
Landscape Similarity Zone: Agricultural/Open		
Viewer Type (check all that apply): ⊠ Resident □	Commuter	/Traveler ⊠ Local Motorist □ Recreational □ Worker
Seasonal Condition:   Leaf On   Leaf Off		
Visual Rating Element	Rating	Notes
	Part 1 Vis	ual Contrast Rating
Form Contrast	1.5	Lateral breadth of project introduces one new large form that is apparent but is
1 om Contrast		similar to larger shapes in landscape.  Similar to existing lines in scape. Project undulates parallel to existing
Line Contrast	0.5	topography
Texture Contrast	0.5	Texture not discernible but what is visible is similar to what is in view
Color Contrast	1.5	Color contrast is low to moderate because project blends in with similar colors that comprise the middleground and background trees.
Project Scale Contrast/Spatial Dominance	1.5	Low profile arrays is suboridinate in view. The project is not high but there is lateral breadth.
Broken Horizon Line	0	None.
Visual Acuity	1.5	Project can be seen but low discernible detail.
Amount of Project Clearing Seen	1	Middleground trees removed
Screening/Mitigation Needed	1	Project can be seen but colors blend in with background and there are some trees in front that block views.
Total	9	
Pa	rt 2 Viewp	oint Sensitivity Rating
Within a Visual Resource*	0	
View of Other Visual Resource with Project*	0	
A Listed/Known Scenic Resource of Visual Quality*	0	
Number of Viewers (Low or High Use Activity)	2	Local road.
Duration of View	1.5	Short duration views from road travel. A couple houses in vicinity
Presence of Existing Development	0.5	Residence in view
Uniqueness of Landscape Compared to Region	1	Typical
Presence of Water	0	
Total	5	
Part 3 Scenic Quality		
General Scenic Quality of the View	2	Pastoral peaceful open land typical of the area

<sup>\*</sup> these visual rating elements are yes or no answers. Therefore, a rating of 0 or 3 should be applied

Rating Scale		
0	None	
1	Weak	
2	Moderate	
3	Strong	

Project: High River Energy Center	Date: 5/1	Date: 5/14/20	
Viewpoint Number: 5	Preparer: Michael Ross		
Viewpoint Location: Florida			
Viewpoint Description: view from Thayer Road, view	east		
Landscape Similarity Zone: Agricultural/Open, Deve	•		
Viewer Type (check all that apply): $\ oxed{oxed}$ Resident $\ oxed{\Box}$	Commuter	/Traveler ⊠ Local Motorist □ Recreational □ Worker	
Seasonal Condition: ☐ Leaf On ☐ Leaf Off			
Visual Rating Element	Rating	Notes	
	Part 1 Vis	ual Contrast Rating	
Form Contrast	1	The panels are located away in the distance, in a relatively low-lying area creating a horizontal line that mimics the existing terrain quite well.	
Line Contrast	.5	The layout and configuration and location of the array fields allows for minimum contrast to occur by following the existing surface terrain and ground line configuration.	
Texture Contrast	1	Distance softens the impact of size and hard surfaces somewhat, allowing for less contrast between the existing texture conditions of the farm field and vegetation present.	
Color Contrast	1	The darker greys of the arrays blend in somewhat with the background but, contrast some with the existing farm field in the foreground.	
Project Scale Contrast/Spatial Dominance	1	The solar array fields are obviously quite large however, the patterns of the arrays do not dominate the landscape but, are foreign in appearance.	
Broken Horizon Line	0	The horizon line is not broken in this view by the solar arrays.	
Visual Acuity	.5	Little to no detail is present in this view with regards to the solar arrays.	
Amount of Project Clearing Seen	1.5	Some clearing can be discerned.	
Screening/Mitigation Needed	2	Strategically placed plantings can mitigate potential future views of the solar arrays and have been provided.	
Total	8.5		
Pa	rt 2 Viewp	oint Sensitivity Rating	
Within a Visual Resource*	0		
View of Other Visual Resource with Project*	0		
A Listed/Known Scenic Resource of Visual Quality*	0		
Number of Viewers (Low or High Use Activity)	2	A residential structure is present in the foreground and a probability of numerous local viewers passing by in vehicles is high.	
Duration of View	1.5	Duration of view will most likely be mixed. Short-term views from vehicular travel and long-term views from the existing residential structure.	
Presence of Existing Development	1.5	There is a residential structure located in the foreground of this view along with several other known residential structures located nearby and/or in close proximity.	
Uniqueness of Landscape Compared to Region	1.5	This landscape appears to be fairly typical to the region.	
Presence of Water	0	No evidence of any water appears to be present.	
Total	6.5		
Part 3 Scenic Quality			
General Scenic Quality of the View	1.5	This view provides a fairly generic view of rural farmland in upstate New	

\* these visual rating elements are yes or no answers. Therefore, a rating of 0 or 3 should be applied

Rating Scale	
0	None
1	Weak
2	Moderate
3	Strong



Project: High River Energy Center	Date: 5/1	Date: 5/15/2020		
Viewpoint Number: 5	Preparer: Heather Vaillant			
Viewpoint Location: Florida				
Viewpoint Description: view from Thayer Rd, view ea	ast			
Landscape Similarity Zone: Agricultural/Open, Developed Road				
Viewer Type (check all that apply): ⊠ Resident □	Commuter	/Traveler ⊠ Local Motorist □ Recreational □ Worker		
Seasonal Condition:   Leaf On   Leaf Off				
Visual Rating Element	Rating	Notes		
Part 1 Visual Contrast Rating				
Form Contrast	1	New form in landscape but it is a small part of the view		
Line Contrast	0.5			
Texture Contrast	1	Panels contrast with the field they are placed in, but are difficult to see		
Color Contrast	1	Contrasts with field		
Project Scale Contrast/Spatial Dominance	1			
Broken Horizon Line	0	Horizon not broken		
Visual Acuity	0.5	Difficult to see the panels		
Amount of Project Clearing Seen	1.5	Clearing visible		
Screening/Mitigation Needed	2			
Total	8.5			
Pa	rt 2 Viewp	oint Sensitivity Rating		
Within a Visual Resource*	0			
View of Other Visual Resource with Project*	0			
A Listed/Known Scenic Resource of Visual Quality*	0			
Number of Viewers (Low or High Use Activity)	1	Local road, residences near viewpoint		
Duration of View	1.5	Short duration from road but long-term views from residences		
Presence of Existing Development	1.5	Minimal development present within view		
Uniqueness of Landscape Compared to Region	2			
Presence of Water	0			
Total	6			
Part 3 Scenic Quality				
General Scenic Quality of the View	2			

<sup>\*</sup> these visual rating elements are yes or no answers. Therefore, a rating of 0 or 3 should be applied

Rating Scale		
0	None	
1	Weak	
2	Moderate	
3	Strong	



Project: High River Energy Center	Date: 5/14/2020		
Viewpoint Number: 31	Preparer: J.Bartos		
Viewpoint Location: Florida			
Viewpoint Description: view from Bulls Head Road, v	iew south		
Landscape Similarity Zone: Agricultural/Open			
Viewer Type (check all that apply): ⊠ Resident □	Commuter	/Traveler ⊠ Local Motorist □ Recreational □ Worker	
Seasonal Condition: ⊠ Leaf On □ Leaf Off			
Visual Rating Element	Rating	Notes	
	Part 1 Vis	ual Contrast Rating	
Form Contrast	1.5	Limited view of similar horizontal forms found in landscape	
Line Contrast	1.5	Horizontal line of project fairly consistent with ground features but also contrasts a bit with vertical trees	
Texture Contrast	0.5	Texture not discernible but similar to what is seen at distance.	
Color Contrast	2.0	New darker colors introduced compared to existing conditions and offers moderate contrast.	
Project Scale Contrast/Spatial Dominance	1	Subordinate in the view	
Broken Horizon Line	0		
Visual Acuity	1	Panels can be seen between tree gaps but view is limited and distant	
Amount of Project Clearing Seen	0		
Screening/Mitigation Needed	0.5	Much of the Project is already mitigation by existing vegetation	
Total	8		
Pa	rt 2 Viewp	oint Sensitivity Rating	
Within a Visual Resource*	0		
View of Other Visual Resource with Project*	0		
A Listed/Known Scenic Resource of Visual Quality*	0		
Number of Viewers (Low or High Use Activity)	1.5	Local rural road view with residences nearby	
Duration of View	2	Intermittent and short duration along a low traveled road but longer duration view for nearby residents	
Presence of Existing Development	1	Not within the view but there are few residences in area	
Uniqueness of Landscape Compared to Region	1	Typical of open field views in the area	
Presence of Water	0		
Total	5.5		
Part 3 Scenic Quality			
General Scenic Quality of the View	2	Pleasing view with variation in topography and vegetation adding interest.	

<sup>\*</sup> these visual rating elements are yes or no answers. Therefore, a rating of 0 or 3 should be applied

Rating Scale		
0	None	
1	Weak	
2	Moderate	
3	Strong	

Project: High River Energy Center	Date: 5/14/20		
Viewpoint Number: 31	Preparer: Michael Ross		
Viewpoint Location: Florida			
Viewpoint Description: view from Bulls Head Road, v	view south		
Landscape Similarity Zone: Agricultural/Open, Deve	eloped Roa	d, and Residential	
Viewer Type (check all that apply): $\ oxed{oxed}$ Resident $\ oxed{\Box}$	Commuter	/Traveler ⊠ Local Motorist □ Recreational □ Worker	
Seasonal Condition:   □ Leaf Off  □ Leaf Off			
Visual Rating Element	Rating	Notes	
	Part 1 Vis	ual Contrast Rating	
Form Contrast	1.5	The panels are located somewhat in the distance, at the base of a hill creating a	
Form Contrast	1.5	distinct horizontal band.  The banding effect and location of the array field allows for some contrast to	
Line Contrast	1	occur with the surround existing terrain and ground line configuration.	
Texture Contrast	1	Distance softens the impact of size and hard surfaces somewhat, allowing for less contrast between the existing texture conditions of the grassy fields and	
Texture dominant	ı	other vegetation present.	
Color Contrast	1	The darker greys of the arrays contrast somewhat with the greens of the grassy fields and other existing vegetation.	
Project Scale Contrast/Spatial Dominance	1	The solar array field is quite large however, the overall area and type of terrain captured in this view diminishes impact.	
Broken Horizon Line	0	The horizon line is not broken in this view by the solar arrays.	
Visual Acuity	.5	Little to no detail is present in this view with regards to the solar arrays.	
Amount of Project Clearing Seen	.5	Minimal clearing can be discerned.	
Screening/Mitigation Needed	2	Strategically placed plantings can help mitigate potential future views of the solar arrays and have been provided.	
Total	8.5		
Pa	rt 2 Viewp	oint Sensitivity Rating	
Within a Visual Resource*	0		
View of Other Visual Resource with Project*	0		
A Listed/Known Scenic Resource of Visual Quality*	0		
Number of Viewers (Low or High Use Activity)	2	Although not visible, several residential structures are known to be present in close proximity and a road is present in the foreground therefore, a probability of numerous local viewers passing by in vehicles is high.	
Duration of View	1.5	Duration of view will most likely be mixed. Short-term views from vehicular travel and long-term views from some of the existing residential structures.	
Presence of Existing Development	1.5	There are several known residential structures located nearby and/or in close proximity.	
Uniqueness of Landscape Compared to Region	2	This landscape appears to be fairly typical to the region but, is also somewhat unique and exceptional to the area due to the existing terrain.	
Presence of Water	0	No evidence of any water appears to be present.	
Total	7		
	Part 3	Scenic Quality	
General Scenic Quality of the View	2	This view provides a fairly generic view of rural farmland in upstate New York however, it is also somewhat unique and exceptional to the area due to the existing terrain	

\* these visual rating elements are yes or no answers. Therefore, a rating of 0 or 3 should be applied

Rating Scale		
0	None	
1	Weak	
2	Moderate	
3	Strong	



Project: High River Energy Center	Date: 5/1	Date: 5/15/2020		
Viewpoint Number: 31	Preparer: Heather Vaillant			
Viewpoint Location: Florida				
Viewpoint Description: view from Bulls Head Rd, vie	w south			
Landscape Similarity Zone: Agricultural/Open, Developed Road				
Viewer Type (check all that apply): ⊠ Resident □	Commuter	/Traveler ⊠ Local Motorist □ Recreational □ Worker		
Seasonal Condition:   Leaf On  Leaf Off				
Visual Rating Element	Rating	Notes		
Part 1 Visual Contrast Rating				
Form Contrast	1.5	New form in landscape but it is a small part of the view		
Line Contrast	1	New horizontal band in landscape		
Texture Contrast	1.5	Panels contrast with the field they are placed in, but are difficult to see		
Color Contrast	1.5	Contrasts with fields, but small part of view		
Project Scale Contrast/Spatial Dominance	1			
Broken Horizon Line	0	Horizon not broken		
Visual Acuity	0.5	Minimal detail visible in array		
Amount of Project Clearing Seen	0.5	Minimal clearing visible		
Screening/Mitigation Needed	2			
Total	9.5			
Pa	rt 2 Viewp	oint Sensitivity Rating		
Within a Visual Resource*	0			
View of Other Visual Resource with Project*	0			
A Listed/Known Scenic Resource of Visual Quality*	0			
Number of Viewers (Low or High Use Activity)	1	Local road, residences near viewpoint		
Duration of View	1.5	Short duration from road but long-term views from residences		
Presence of Existing Development	1.5	Minimal development present within view		
Uniqueness of Landscape Compared to Region	2			
Presence of Water	0			
Total	6			
Part 3 Scenic Quality				
General Scenic Quality of the View	2			

<sup>\*</sup> these visual rating elements are yes or no answers. Therefore, a rating of 0 or 3 should be applied

Rating Scale		
0	None	
1	Weak	
2	Moderate	
3	Strong	



Project: High River Energy Center	Date: 5.14.2020		
Viewpoint Number: 32	Preparer: J Bartos		
Viewpoint Location: Florida			
Viewpoint Description: view from Persons Road			
Landscape Similarity Zone: Agricultural/Open, Deve			
Viewer Type (check all that apply): ⊠ Resident □	Commuter	/Traveler   Local Motorist   Recreational   Worker	
Seasonal Condition: ⊠ Leaf On □ Leaf Off			
Visual Rating Element	Rating	Notes	
	Part 1 Vis	ual Contrast Rating	
Form Contrast	2.5	New forms compared to existing	
Line Contrast	2.5	New line elements compared to existing	
Texture Contrast	2.5	New textures introduced compared to existing	
Color Contrast	2.5	New color compared to existing with contrast only somewhat moderated by existing colors in view.	
Project Scale Contrast/Spatial Dominance	2.5	Although vertical elements are not too great the Project is dominant in view because of proximity	
Broken Horizon Line	1	Partially interrupt horizon in left of photo	
Visual Acuity	2.5	Proximity to panels gives detail.	
Amount of Project Clearing Seen	0		
Screening/Mitigation Needed	2.0	Depends. Not all parts of road here may need screening because of extremely limited amount of residents.	
Total	18		
Pa	rt 2 Viewp	ooint Sensitivity Rating	
Within a Visual Resource*	0		
View of Other Visual Resource with Project*	0		
A Listed/Known Scenic Resource of Visual Quality*	0		
Number of Viewers (Low or High Use Activity)	0.5	Only 2 or 3 residents on entire dead end road	
Duration of View	2.5	Long duration view for resident	
Presence of Existing Development	0		
Uniqueness of Landscape Compared to Region	1	Typical for this area.	
Presence of Water	0		
Total	4		
	Part 3	S Scenic Quality	
General Scenic Quality of the View	1.5	Pretty and pastoral.	

<sup>\*</sup> these visual rating elements are yes or no answers. Therefore, a rating of 0 or 3 should be applied

Rating Scale		
0	None	
1	Weak	
2	Moderate	
3	Strong	

Project: High River Energy Center	Date: 5/14/20			
Viewpoint Number: 32	point Number: 32 Preparer: Michael Ross			
Viewpoint Location: Florida				
Viewpoint Description: view from Persons Road, view	w southeas	t		
Landscape Similarity Zone: Agricultural/Open, Deve	loped Roa	d, and Residential		
Viewer Type (check all that apply): $oxtimes$ Resident $oxtimes$	Commuter	/Traveler ☐ Local Motorist ☐ Recreational ☐ Worker		
Seasonal Condition: ⊠ Leaf On □ Leaf Off				
Visual Rating Element	Rating	Notes		
	Part 1 Vie	ual Contrast Rating		
		The panels are located somewhat close in this view, in an open grassy field and		
Form Contrast	2.5	somewhat natural setting creating contrast.		
Line Contrast	2.5	The perimeter delineation created by the array field creates an unnatural line and contrast in the landscape.		
Texture Contrast	2	Due to the close proximity of the array field in this view, texture of fencing and array outline of panels is present creating contrast in the naturalized surrounding of the existing vegetation.		
Color Contrast	2	The darker greys of the arrays and fence line contrast with the greens of the grassy fields and other existing vegetation.		
Project Scale Contrast/Spatial Dominance	2	The solar array field is quite large in the overall area of this view and type of terrain promotes scale impact.		
Broken Horizon Line	1.5	Approximately 50% of the horizon line is broken in this view by the solar arrays.		
Visual Acuity	1.5	Some detail is present in this view with regards to the solar array panels and fence line.		
Amount of Project Clearing Seen	0	No actual clearing can be discerned.		
Screening/Mitigation Needed	3	Screening mitigation plantings will be needed to help mitigate potential future views of the solar arrays and have been provided.		
Total	17			
Pa	rt 2 Viewp	oint Sensitivity Rating		
Within a Visual Resource*	0			
View of Other Visual Resource with Project*	0			
A Listed/Known Scenic Resource of Visual Quality*	0			
Number of Viewers (Low or High Use Activity)	2	A residential structure is present in this view and several other residential structures are known to be present in close proximity. Additionally, indication of a road is present in the foreground as well therefore, a probability of numerous local viewers passing by in vehicles is high.		
Duration of View	1.5	Duration of view will most likely be mixed. Short-term views from vehicular travel and long-term views from some of the existing residential structures.		
Presence of Existing Development	1.5	There is a residential structure located in this view and are several known residential structures located nearby and/or in close proximity.		
Uniqueness of Landscape Compared to Region	1.5	This landscape appears to be fairly typical to the region.		
Presence of Water	0	No evidence of any water appears to be present.		
Total	6.5			
Part 3 Scenic Quality				
General Scenic Quality of the View	1.5	This view provides a fairly generic view of rural farmland in upstate New		

\* these visual rating elements are yes or no answers. Therefore, a rating of 0 or 3 should be applied

Rating Scale		
0	None	
1	Weak	
2	Moderate	
3	Strong	



Project: High River Energy Center	Date: 5/15/2020			
Viewpoint Number: 32	Preparer: Heather Vaillant			
Viewpoint Location: Florida				
Viewpoint Description: view from Persons Rd, view south				
Landscape Similarity Zone: Agricultural/Open, Developed Road				
Viewer Type (check all that apply): ⊠ Resident □ Commuter/Traveler □ Local Motorist □ Recreational □ Worker				
Seasonal Condition: ⊠ Leaf On □ Leaf Off				
Visual Rating Element	Rating	Notes		
Part 1 Visual Contrast Rating				
Form Contrast	2	New form in landscape but it is a small part of the view		
Line Contrast	2	New, large horizontal band in landscape		
Texture Contrast	2	Panels contrast with the surrounding vegetation		
Color Contrast	2	Contrasts with fields, but small part of view		
Project Scale Contrast/Spatial Dominance	2	Dominant in landscape		
Broken Horizon Line	1.5	Horizon broken in left hand side of photo		
Visual Acuity	1.5			
Amount of Project Clearing Seen	0	No clearing visible		
Screening/Mitigation Needed	3			
Total	16			
Part 2 Viewpoint Sensitivity Rating				
Within a Visual Resource*	0			
View of Other Visual Resource with Project*	0			
A Listed/Known Scenic Resource of Visual Quality*	0			
Number of Viewers (Low or High Use Activity)	1	Local road, residences near viewpoint		
Duration of View	1.5	Short duration from road but long-term views from residences		
Presence of Existing Development	1.5	Minimal development present within view		
Uniqueness of Landscape Compared to Region	1.5			
Presence of Water	0			
Total	5.5			
Part 3 Scenic Quality				
General Scenic Quality of the View	1.5			

<sup>\*</sup> these visual rating elements are yes or no answers. Therefore, a rating of 0 or 3 should be applied

Rating Scale		
0	1	None
1	١	Neak
2	1	Moderate
3		Strong