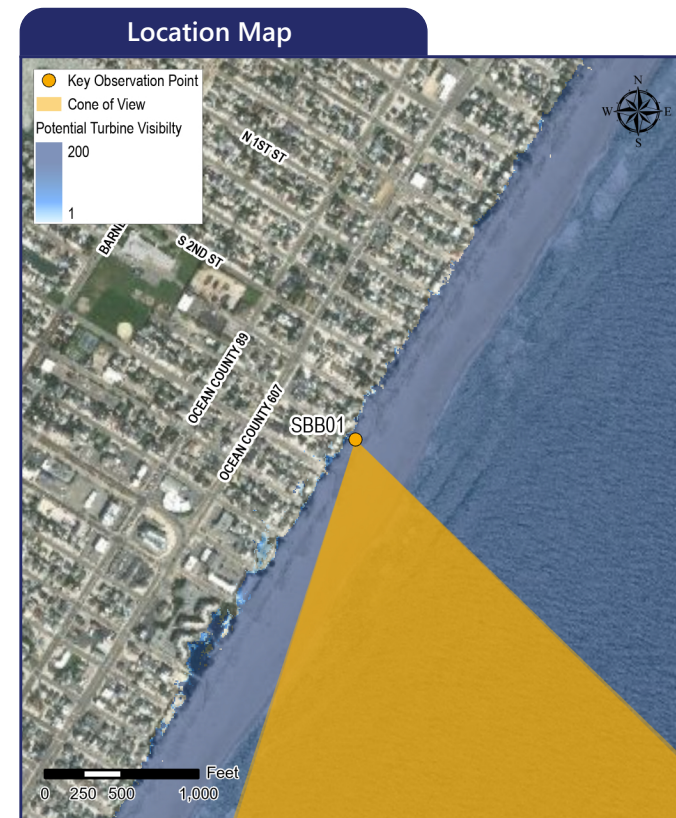
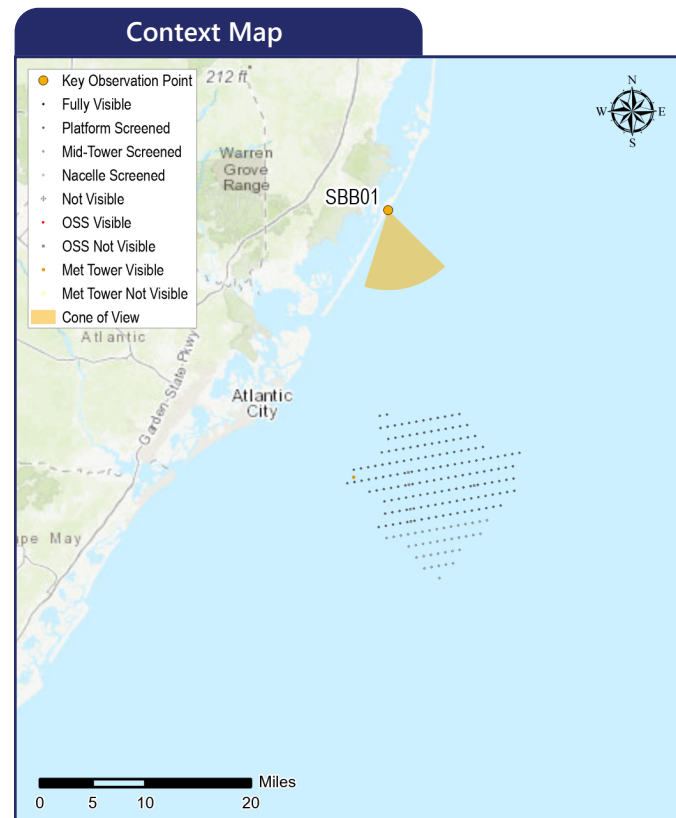


SBB01 Ship Bottom Borough Municipal Beach

Ship Bottom Borough, Ocean County, New Jersey



The image above is a +/- 124° panorama photograph from the Ship Bottom Borough Municipal Beach, panning clockwise from east-southeast (left) to southwest (right). The yellow rectangle represents the extent of the simulated photograph(s).



Simulation Information

Coordinates: 39.65152°N, 74.17169°W
 Character Area: Residential Beachfront, Seascape (SCA)
 User Group: Residents/Tourists, Fishermen
 Direction of View: South-southeast
 Distance to Nearest Visible Turbine: 19.35 miles
 Visually Sensitive Resource: Ship Bottom Borough Municipal Beach

Environmental Information

Date Taken: 09/22/2020
 Time: 3:45 PM
 Temperature: 72°F
 Humidity: 33%
 Visibility: 10 miles
 Wind Direction: West-northwest
 Wind Speed: 12 mph
 Conditions Observed: Fair

Photograph Information

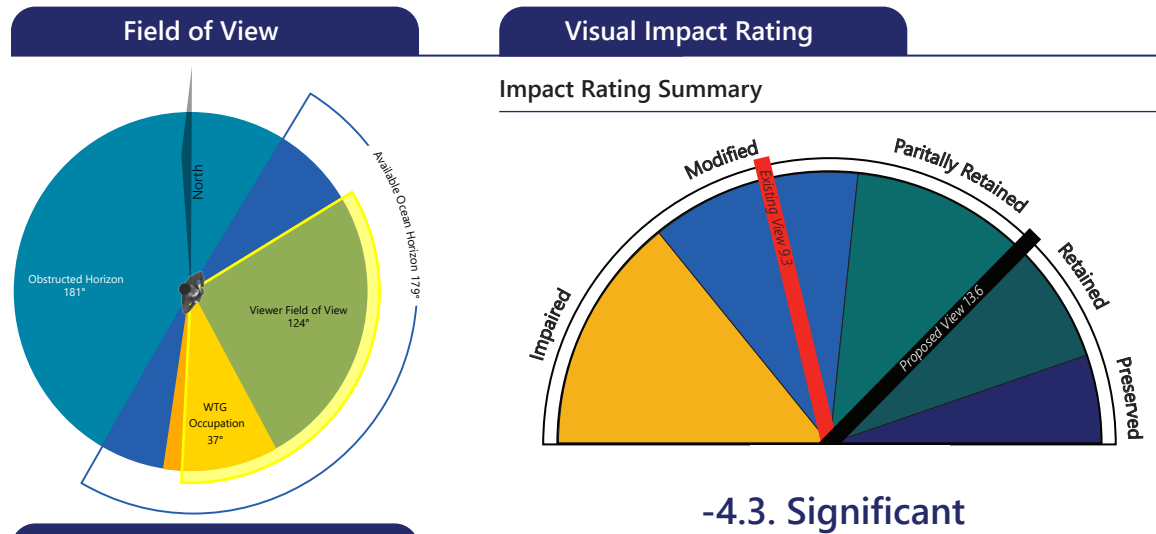
Camera: Canon EOS 5D Mark IV
 Resolution: 30.4 Megapixels
 Focal Length: 50mm
 Camera Height: 24.04 feet AMSL

Notes

Printed at 100%, the photosimulations are 15 inches wide by 10 inches high. At this size, the photosimulation(s) should be viewed from a distance of 21 inches.

Simulated Photograph(s)





Visual Threshold Level (VTL)

5 An object/phenomenon that is not large but contrasts with the surrounding landscape elements so strongly that it is a major focus of visual attention, drawing viewer attention immediately and tending to hold that attention. In addition to strong contrasts in form, line, color, and texture, bright light sources such as lighting and reflections and moving objects associated with the study subject may contribute substantially to drawing viewer attention. The visual prominence of the study subject interferes noticeably with views of nearby landscape/seascape elements (Sullivan et al., 2013).

Principles of Composition and Factors Affecting Visual Impact Summary

Design Elements	Description
Focal Point	Dark silhouettes seated on the beach at a direct line from the access point draw viewer attention.
Order	Wide open ocean, sandy beach, to grass covered sand dunes; Split-rail, dune grass, dune fence, sand, surf, ocean, sky.
Visual Clutter	There are multiple elements in this view: dune fencing, split-rail fence, signage.
Movement	Human activity on the beach, boats on the water, and the movement of waves and wildlife.
Duration & Frequency of View	Moderate to long duration and high frequency view experienced by residents and beach-goers.
Atmospheric Conditions	The sky is clear of clouds, fading from white/pale blue at the; hazy or overcast conditions could likely decrease visibility.
Lighting Direction	Side-Lit
Scenic or Recreational Value	The dense dun scape and open shoreline allow for beach goes enjoying a variety of activities including sunbathing, swimming and fishing ; Ship Bottom Borough Municipal Beach.

Compatibility and Contrast Rating Average

Ship Bottom Borough Municipal Beach			
Resource	Compatibility	Scale	Spatial Dominance
Water Resources	2.6	2.1	2.1
Landform	2.3	2.0	1.8
Vegetation	2.3	2.0	1.8
Land Use	2.0	2.0	2.0
User Activity	2.4	2.1	2.5
	1 – Compatible 2 – Somewhat Compatible 3 – Not Compatible	1 – Minimal 2 – Moderate 3 – Severe	1 – Subordinate 2 – Co-Dominant 3 – Dominant

Existing Conditions

Scenic Quality: Retained
Rating Panel Score Average: 13.6
Rating Panel Score Range: 11.7 - 16.3

This view is from Ship Bottom Borough Municipal Beach in Borough of Ship Bottom, New Jersey. The beach is a popular swimming and sunbathing destination on Long Beach Island. In-season access requires a beach badge, and lifeguard and beach patrol services are provided. A continuous line of seasonal and year-round residences line the beach on its landward side. The existing view to the south southeast from this location looks down the beach, with the ocean on the left and sparsely vegetated (planted) low dunes and shoreline homes on the right. Within the frame of view of the selected photographs, a sand access path enclosed within a split rail fence leads down to the open beach in the immediate foreground. Outside the path, additional foreground features include some additional sand fencing, signage, and dune vegetation. The beach itself is relatively level and includes some standing pools of water and a scattering of people. A line of breaking surf and foam at the shoreline gives way to the open blue-green waters of the ocean, which extends uninterrupted to the horizon where it meets a clear blue sky. People on the beach, tracks in the sand, and man-made features all indicate that the beach well used. However, it appears well maintained and uncrowded, and has a pleasant recreational character.

Rating panel members indicated that this location provides plenty of access for beachgoers and found this view to be aesthetically pleasing with high visual quality which is influenced by the elevated vantage point. Rating panel scores for the existing conditions photographs ranged from 11.7 to 16.0 (average score = 12.6) indicating that this view is retained.

Proposed Conditions

Scenic Quality: Modified
Rating Panel Score Average: 9.3
Rating Panel Score Range: 7.3 - 12.0
Impact Magnitude: 4.3 (Significant)

Viewshed analysis suggests that Project visibility from this area will be available along the beach, but would become quickly blocked by the tall sand dunes and only small, discrete areas of visibility occur in the residential areas beyond the dunes. This degree of visibility is restricted to the beach front and the dune tops.

With the proposed Project in place, the WTGs are clearly visible as dark features against an otherwise featureless blue sky and horizon line. Although portions of the WTGs are screened by curvature of the earth at a distance of 19.4 miles, they are still large enough to attract viewer attention under clear conditions. Rating panel members had a variable range of reactions to the impact resulting from the Project WTGs, with the VIA scores ranging from 7.3 to 12 (average score = 9.3). These scores indicate an average reduction of 4.3 points in comparison to the existing view, with individual rating panel members indicating reductions that ranged from 0.7 to 9.0. At the low end of this range, panel members indicated that the “viewing distance, light color, and slender profile mitigates some of the potential visual impacts, however, the eye is drawn to where the turbines are stacked on each other and the dark color against the sky intensifies.” The panel member indicating a greater degree of visual change noted, the proposed turbine field creates a distant focus along the horizon. The quantity and placement of the turbines creates an industrial feel to the view. The turbines substantially alter the character of the landscape.” With the Project in place, rating panel scores indicate that this view becomes modified and significant visual impacts result from the Projects when viewed during clear conditions, as presented in the photosimulation.

Considering the scale, compatibility, and spatial dominance factors that influenced the visual impact rating at this KOP, panel ratings indicated that the WTGs present moderate scale contrast with landform, vegetation, land use, water resources and user activity. The WTGs would be spatially dominant considering user activity and codominant with landform, vegetation, water resources and land use. The rating panel also indicated that the WTGs are not compatible with water resources, but somewhat compatible with landform, vegetation, land use, and user activity. Consistent with the anticipated compatibility, scale contrast, and spatial dominance impacts associated with the Project, panel members assigned the Project visibility an average VTL of 5 from this KOP.

SBB01 Ship Bottom Borough Municipal Beach

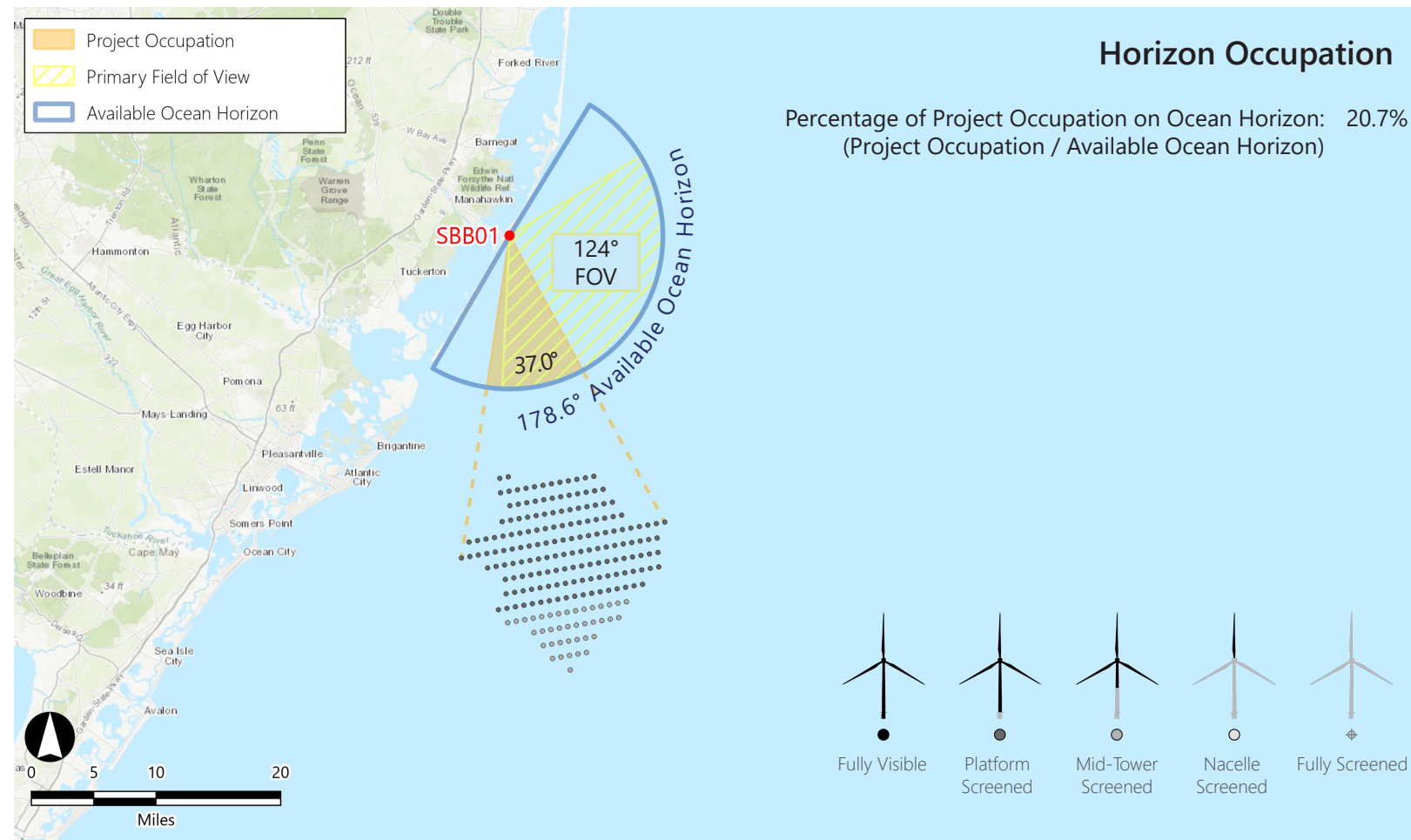
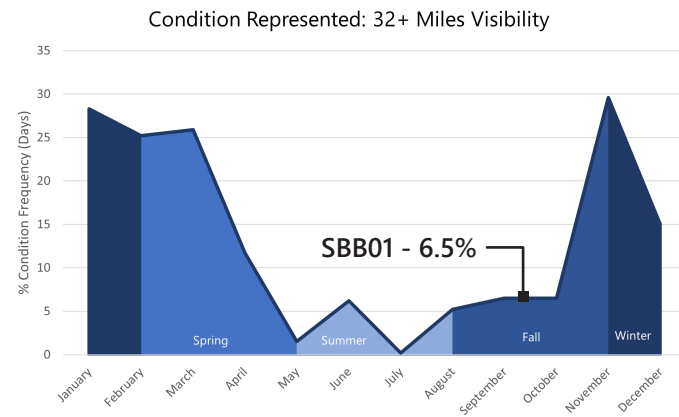
Ship Bottom Borough, Ocean County, New Jersey

KOP Information

Primary Field of View: East
 Distance to Closest WTG: 19.35 miles
 Camera Height: 24.04 ft
 User Groups: Residents, Tourists

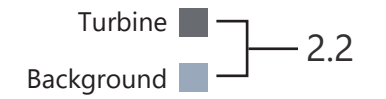
Atmospheric Perspective

The effect the atmosphere has on the appearance of an object as viewed from a distance.



WTG Color Contrast

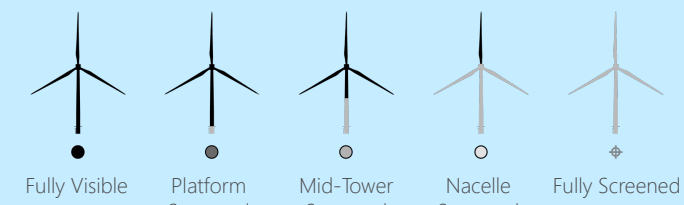
Color Contrast Rating:



Lighting Condition: Front lit
 Season: Fall
 Sky Condition: Clear
 Atmospheric Condition: > 10 Miles

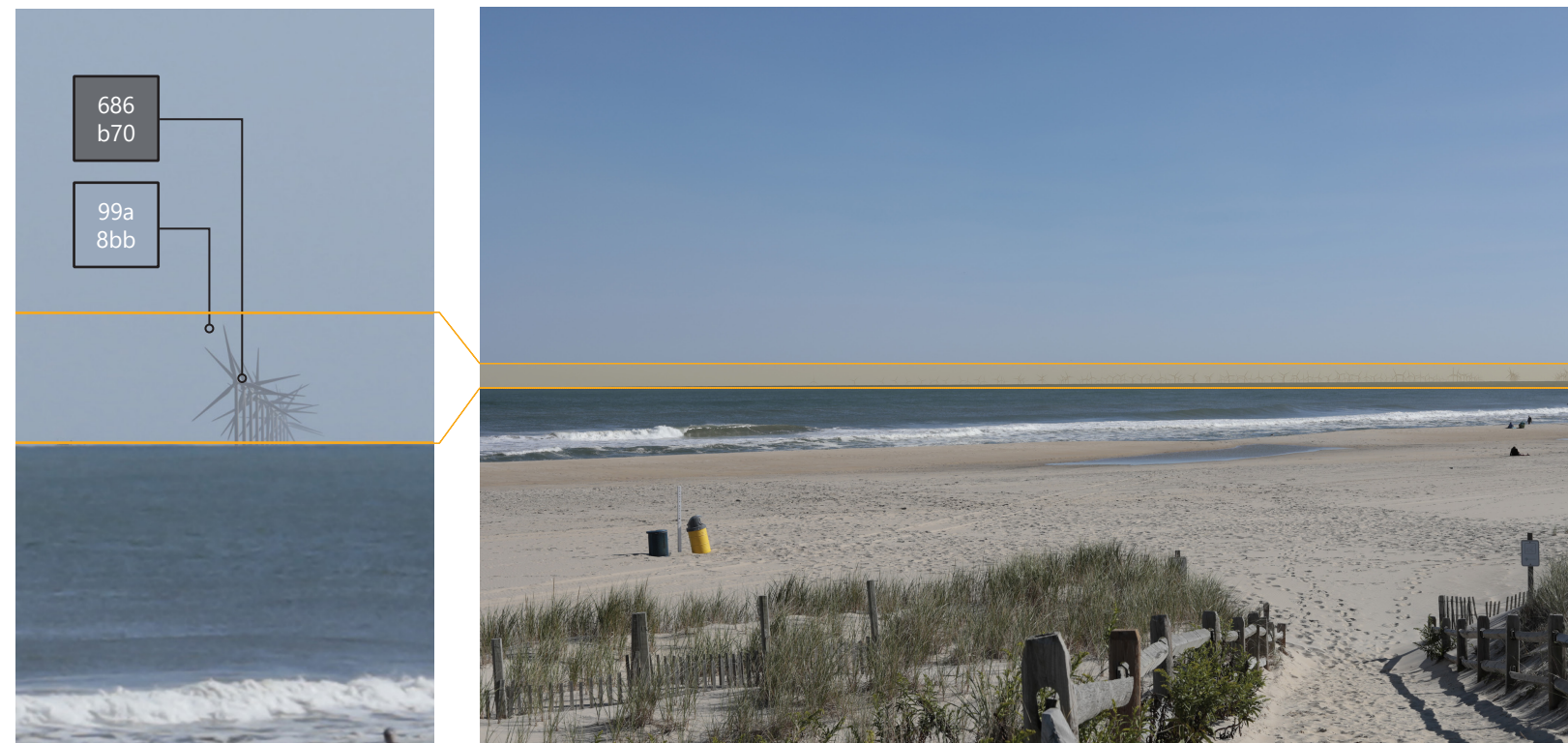
SIMILAR VIEWING PARAMETERS:

KOP OC04 illustrates the project from 17.18 miles in the back lit condition. This provides an indication of how the turbines may appear from this KOP during morning conditions.

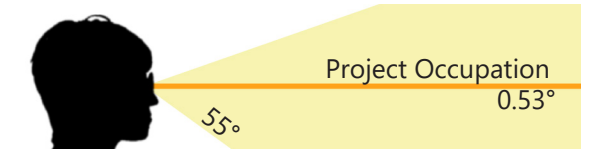


Visibility Data Not Available

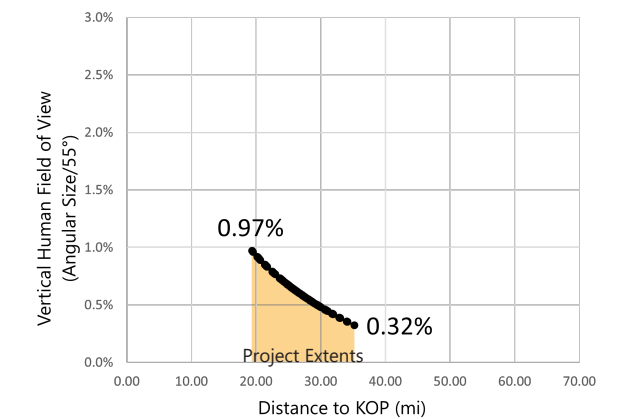
See KOP LBT03 for similar conditions



Vertical Occupation



Percentage of Human FOV: 0.97% (0.53° / 55°)
 (Considering the nearest visible turbine)



Existing Conditions



Printed at 100% the resulting photosimulation size is 15 inches wide by 10 inches high. At this size and focal length, the photosimulation should be viewed from a distance of 21 inches.



This scale is designed to insure the photosimulation images are printed at the intended size.

Photosimulation



Printed at 100% the resulting photosimulation size is 15 inches wide by 10 inches high. At this size and focal length, the photosimulation should be viewed from a distance of 21 inches.



This scale is designed to insure the photosimulation images are printed at the intended size.

Existing Conditions



Printed at 100% the resulting photosimulation size is 15 inches wide by 10 inches high. At this size and focal length, the photosimulation should be viewed from a distance of 21 inches.



This scale is designed to insure the photosimulation images are printed at the intended size.

Photosimulation



Printed at 100% the resulting photosimulation size is 15 inches wide by 10 inches high. At this size and focal length, the photosimulation should be viewed from a distance of 21 inches.



This scale is designed to insure the photosimulation images are printed at the intended size.