

Appendix H: Seascape, Landscape, and Visual Impact Assessment

H.1 Introduction

This appendix describes the Seascape, Landscape, and Visual Impact Assessment (SLVIA) methodology and key findings that the Bureau of Ocean Energy Management (BOEM) used to identify the potential impacts of offshore wind structures (wind turbine generators [WTGs] and offshore substation platforms [OSPs]) on scenic and visual resources in the geographic analysis area. This SLVIA methodology applies to any offshore wind energy development proposed for the Outer Continental Shelf (OCS) and incorporates by reference the detailed description of the methodology described in the *Assessment of Seascape, Landscape, and Visual Impacts of Offshore Wind Energy Developments on the Outer Continental Shelf of the United States* (BOEM 2021). Section H.2, *Method of Analysis*, describes the specific methodology used to apply the SLVIA methodology to the SouthCoast Wind Construction and Operations Plan (COP) (SouthCoast Wind 2024) and Section H.3, *Results*, summarizes the wind farm distances, fields of view (FOVs), noticeable elements, visual contrasts, scale of change, and prominence that contributed to the determination of impact levels for each key observation point (KOP) under the Proposed Action and each of the action alternatives that include modifications to WTG array layouts. Maps of scenic resources present in the geographic analysis area are included in Section 3.6.9, *Scenic and Visual Resources*. Visual simulations of the Proposed Action alone, other ongoing and planned offshore wind projects without the Proposed Action, and other offshore wind projects in combination with the Proposed Action are included in Attachment H-1, *Cumulative Visual Simulations*.

H.2 Method of Analysis

The SLVIA has two separate but linked parts: the seascape, open ocean, and landscape impact assessment (SLIA) and visual impact analysis (VIA). The SLIA analyzes and evaluates sensitivity, susceptibility, and magnitude of change in consideration of impacts on both the physical elements and features that make up a landscape, seascape, or open ocean; and the aesthetic, perceptual, and experiential aspects of the landscape, seascape, or open ocean that make it distinctive. These impacts affect the “feel,” “character,” or “sense of place” of an area of landscape, seascape, or open ocean, rather than the composition of a view from a particular place. In the SLIA, the impact receptors (the entities that are potentially affected by the proposed Project) are the seascape/open ocean/landscape itself and its components, both its physical features and its distinctive character.

The VIA analyzes and evaluates the impacts on people of adding the proposed development to views from selected viewpoints. The VIA evaluates the change to the composition of the view itself and assesses how the people who are likely to be at that viewpoint may be affected by the change to the view. Enjoyment of a particular view is dependent on the viewer and, in the VIA, the impact receptors are people. The inclusion of both the SLIA and VIA in the BOEM SLVIA methodology is consistent with the National Environmental Policy Act (NEPA)’s objective of providing Americans with aesthetically and

culturally pleasing surroundings and its requirement to consider all potentially significant impacts of development.

The magnitude of effect in a seascape, open ocean, landscape, or view depends on the nature, scale, prominence, and visual contrast of the change and its experiential duration. The SLVIA offshore geographic analysis area consists of the earth curvature-based extent of the zone of theoretical visibility and zones of visual influence (COP Appendix T; SouthCoast Wind 2024), as follows.

- The offshore turbine array area where the WTGs and OSP would be located plus a 42.8-mile (68.9-kilometer) radius area. This distance is the maximum extent within which a seascape, open ocean, landscape, or visual effect could occur, given visibility of the maximum height of the WTG rotor (1,066 feet [324.9 meters]).
- The OSP (maximum height of 344.5 feet [105 meters]) would potentially be visible to a distance of 25.5 miles (41.0 kilometers).

WTG visibility would be variable through the day depending on many factors. View angle, sun angle, and atmospheric conditions would affect the WTG visibility. Visual contrast of WTGs would vary throughout the day depending on the visual character of the horizon's backdrop and whether the WTGs are backlit, side-lit, or front-lit. If less visual contrast is apparent in the morning hours, then it is likely that the visual contrast may be more pronounced in the afternoon. The inverse is possible, as well. These effects are also influenced by varying atmospheric conditions, direction of view, distance between the viewer and the WTGs, and elevation of the viewer.

At closer distances, approximately 12 miles or closer, the form of the WTG may be the dominant visual element creating the visual contrast regardless of color. At greater distances, color may become the dominant visual element creating visual contrast under certain visual conditions that gives visual definition to the WTG's form and line.

As the elevation of the viewer increases, the lesser the effect Earth curvature (EC) has on the visible height of individual WTGs.

While the shoreline has a prevailing southward viewing direction, localized views may vary from southeast to west. All cardinal directions are conceivable when viewing from a lighthouse or a water vessel at sea. When viewing from onshore toward a southerly direction and scanning to the east and west, the color of the horizon backdrop often will vary. Variation will continue as the sun arcs across the sky from sunrise to sunset. Depending on sun angle, the backdrop sky color may have various intensities of white to gray and sky blue to pale blue to dark blue-gray. Partly cloudy to overcast conditions will also influence the color make-up of the horizon's backdrop. The sunrise and sunset have varying degrees of light blue to dark blue, light and dark purples intermixed with oranges, yellows, and reds. Partly cloudy skies may increase the remarkable color effects during the sunset and sunrise periods of the day.

When placing WTGs offshore, the visual interplay and contrasting elements in form, line, color, and texture may vary with the ever-changing character of the backdrop. Front-lit WTGs may have strong color contrast against a darker gray sky, giving definition to the WTG's vertical form and line contrast to

the ocean's horizontal character and the line where the sea meets sky, or visually dissipates against a whiter backdrop created by high levels of evaporative atmospheric moisture during clear sunny days. Partly cloudy skies may create varying degrees of sunlight reflecting off the white wind turbines, placing some WTGs in the shadow and making them appear a darker gray and less conspicuous while highlighting others with a bright white color contrast. The level of noticeability would be directly proportional to the degree of visual contrast and scale of change between the WTGs and the corresponding backdrop.

These variations through the course of the day may result in periods of moderate to major visual effects while at other times of day would have minor or negligible effects.

The onshore geographic analysis area includes landfalls, buried onshore export cables, an onshore substation and up to two converter stations, and transmission connections to the electric grid. The visual impacts of onshore components are assessed in Chapter 3, Section 3.6.9, *Scenic and Visual Resources*.

The SLVIA methodology and parameters consider local stakeholders' identity, culture, values, and issues and the understanding of baseline maritime conditions. Project activities for all stages of the Project life cycle (construction and installation, operations and maintenance [O&M], and decommissioning) are assessed against the environmental baseline to identify the potential interactions between the Project and the seascape, landscape, and viewers. Potential impacts are assessed to determine an impact level consistent with the definitions in Table H-1.

Table H-1. Definitions of potential adverse impact levels

Impact Level	Historic Properties under Section 106 of the NHPA	Visual Resources
Negligible	Adverse	SLIA: Very little or no effect on seascape/landscape unit character, features, elements, or key qualities either because unit lacks distinctive character, features, elements, or key qualities; values for these are low; or Project visibility is minimal. VIA: Very little or no effect on viewers' experiences because Project visibility/contrast/magnitude of change is minimal, or view receptor sensitivity/susceptibility/value is minimal.
Minor	Adverse	SLIA: The Project would introduce features that may have low to medium levels of visual prominence in the geographic area of an ocean/seascape/landscape character unit. The Project features may introduce a visual character that is somewhat inconsistent with the character of the unit, which may have minor to medium negative effects on the unit's features, elements, or key qualities, but the unit's features, elements, or key qualities have low susceptibility or value. VIA: The visibility of the Project would introduce a small but noticeable to medium level of change to the view's character; have a low to medium level of visual prominence that attracts but may or may not hold the viewer's attention; and have a small to medium effect on the viewer's experience. The viewer receptor sensitivity/susceptibility/value is low. If the value, susceptibility, and viewer concern for change is medium or high, then evaluate

Impact Level	Historic Properties under Section 106 of the NHPA	Visual Resources
		the nature of the sensitivity to determine if elevating the impact to the next level is justified. For instance, a KOP with a low magnitude of change, but a high level of viewer concern (combination of susceptibility/value), may justify adjusting to a moderate level of impact.
Moderate	Adverse	<p>SLIA: The Project would introduce features that would have medium to large levels of visual prominence within the geographic area of an ocean/seascape/landscape character unit. The Project would introduce a visual character that is inconsistent with the character of the unit, which may have a moderate negative effect on the unit's features, elements, or the key qualities. In areas affected by large magnitudes of change, the unit's features, elements or key qualities have low susceptibility or value.</p> <p>VIA: The visibility of the Project would introduce a moderate to large level of change to the view's character; may have a moderate to large level of visual prominence that attracts and holds, but may or may not dominate the viewer's attention; and has a moderate effect on the viewer's visual experience. The viewer receptor sensitivity/susceptibility/value is medium to low. Moderate impacts are typically associated with medium viewer receptor sensitivity (combination of susceptibility/value) in areas where the view's character has medium levels of change; or low viewer receptor sensitivity (combination of susceptibility/value) in areas where the view's character has large changes to the character. If the value, susceptibility, and viewer concern for change is high, then evaluate the nature of the sensitivity to determine if elevating the impact to the next level is justified.</p>
Major	Adverse	<p>SLIA: The Project would introduce features that would have dominant levels of visual prominence in the geographic area of an ocean/seascape/landscape character unit. The Project would introduce a visual character that is inconsistent with the character of the unit, which may have a major negative effect on the unit's features, elements, or key qualities. The concern for change (combination of susceptibility/value) to the character unit is high.</p> <p>VIA: The visibility of the Project would introduce a major level of character change to the view; would attract, hold, and dominate the viewer's attention; and would have a moderate to major effect on the viewer's visual experience. The viewer receptor sensitivity/susceptibility/value is medium to high. If the magnitude of change to the view's character is medium, but the susceptibility or value at the KOP is high, then evaluate the nature of the sensitivity to determine if elevating the impact to major is justified. If the sensitivity (combination of susceptibility/value) at the KOP is low in an area where the magnitude of change is large, then evaluate the nature of the sensitivity to determine if lowering the impact to moderate is justified.</p>

H.3 Results

H.3.1 Proposed Action

Atmospheric conditions offshore and near the shoreline limit views more than the typically drier-air conditions in inland areas. Visual simulations from representative viewpoints included as Attachment 3

to the *SouthCoast Wind Visual Impact Assessment Report* (COP Appendix T; SouthCoast Wind 2024) indicate that daytime and nighttime visibility of WTGs and OSPs would be noticeable to the casual observer from seascape character areas, the open ocean character area, landscape character areas, and viewer viewpoints. Based on COP VIA Appendix T, Table 5-5 (SouthCoast Wind 2024), acreages of character areas overall in the offshore geographic analysis area and within the offshore wind farm viewshed are listed in Table H-2. Applicable effects from the Proposed Action and alternatives on seascape character units, the open ocean character unit, and landscape character units are listed throughout this appendix.

Table H-2. Area of landscape/seascape and ocean character types within the Offshore Project area viewsheds

Landcover/Open Ocean	Acres (hectares) of Landscape/ Seascape and Ocean Character Type	Acres (hectares) within Area of Potential Visual Impact	Percentage of Landscape/Seascape Character Type in Area of Potential Visual Impact
Martha's Vineyard Viewshed			
Coastal Bluffs	100.92 (40.77)	31.81 (12.87)	31.52
Coastal Scrub	5,873.36 (2,372.84)	1,534.77 (621.10)	26.13
Commercial	278.91 (112.68)	0.41 (0.17)	0.15
Dunes	396.73 (160.28)	183.78 (74.37)	46.32
Environmental Justice Community	8,246.23 (3,331.48)	1315.42 (532.33)	15.95
Fields/Meadows	22.6 (9.13)	19.47 (7.88)	86.15
Forests/Woodlands	59,350.69 (23,977.68)	4,237.71 (1,714.94)	7.14
Historic	866.03 (349.88)	4.02 (1.63)	0.46
Light Industrial	866.59 (350.1)	1.56 (0.63)	0.18
Ocean Beach	469.48 (189.99)	469.48 (189.99)	64.20
Rural/Suburban Residential	56,058.02 (22,647.44)	5,461.30 (2,210.11)	9.74
Ponds/Tidal Marsh	10,221.75 (4,129.59)	3,340.65 (1,351.91)	32.68
Village/Town	2,254.34 (910.75)	2.85 (1.16)	0.13

Landcover/Open Ocean	Acres (hectares) of Landscape/ Seascape and Ocean Character Type	Acres (hectares) within Area of Potential Visual Impact	Percentage of Landscape/Seascape Character Type in Area of Potential Visual Impact
Nantucket Viewshed			
Coastal Bluffs	38.14 (15.41)	5.35 (2.17)	14.03
Coastal Scrub	17,529.77 (7,082.03)	4,331.89 (1,753.05)	24.71
Commercial	158.77 (64.14)	23.55 (9.53)	14.83
Dunes	500.4 (202.16)	363.07 (146.93)	72.56
Environmental Justice Community	2,287.93 (924.32)	236.79 (95.83)	10.35
Fields/Meadows	208.8 (84.35)	97.64 (39.52)	46.76
Forests/Woodlands	371.52 (150.1)	6.03 (2.44)	1.62
Historic	36,160.62 (14,608.89)	7,208.19 (2,917.05)	19.93
Light Industrial	631.99 (255.32)	458.88 (185.70)	72.61
Ocean Beach	677.76 (273.81)	393.93 (159.42)	58.12
Parks/Developed Recreation	1,157.75 (467.73)	335.89 (135.93)	29.01
Rural/Suburban Residential	3,800.08 (1,535.23)	867.69 (351.14)	22.83
Ponds/Tidal Marsh	5,620.06 (2,270.51)	104.94 (42.47)	1.87
Village/Town	1,694.94 (684.76)	9.73 (3.94)	0.57
Ocean Character Type			
Open Ocean	5,200,000 (2,100,000)	5,200,000 (2,100,000)	-

Source: COP Appendix T, Table 5-5; SouthCoast Wind 2024

Distances from beach KOPs to the Proposed Action WTG and OSP array would range from the following.

- 37.2 miles (59.9 kilometers) from KOP-16-MV Squibnocket Beach on the western extent of the geographic analysis area.
- 23.3 miles (37.5 kilometers) from KOP-11-N Miacomet Beach, which is the closest KOP to the front edge of the WTG array,
- 26.5 miles (42.6 kilometers) from KOP-6-N Tom Nevers Beach on the eastern extent of the geographic analysis area.

The noticeable daytime and nighttime elements of the Project's WTGs and OSP and their viewshed distances are listed in Table H-3. Each WTG would have two L-864 flashing-red obstruction lights on the top of the nacelle, one of which is required to be lit (BOEM 2021). WTGs would have additional intermediate lighting on the tower utilizing low-intensity red-flashing (L-810) obstruction lighting. Line-of-sight calculations for onshore viewers (5.9-foot [1.8-meter] eye level) are based on intervening EC screening (7.98 inches [20.3 centimeters] height per mile). Heights of WTG and substation components are stated relative to mean lower low water (MLLW) and highest astronomical tide.

Atmospheric refraction of light rays causes fluctuations in the extents and appearances of offshore and onshore facilities. It results from the bending of light rays between viewers and objects due to current air temperature, water vapor, and barometric pressure (Bislins 2022). Based on the average sea level refraction calculation coefficient of 0.17 (Bislins 2022) applied to the turbine blade tip viewshed distance of 42.8 miles (68.9 kilometers), the 1,066.3-foot (325.0-meter) turbines may be projected upward to increased visibility from 0.0 feet (0.0 meters) to 192 feet (58.5 meters) above the horizon. The nearest beach viewers, located at 23.3 miles (37.5 kilometers) from the Lease Area, may see increased visibility of the 1,066.3-foot (325.0-meter) turbines from 790 feet (240.8 meters) to 844 feet (257.3 meters) above the horizon. Variability of daytime and nighttime atmospheric refraction-based visibility occurs with sea level's continuous increases and decreases in temperature, water vapor, and barometric pressure.

Table H-4 and Table H-5 indicate the Proposed Action's effects based on horizontal FOV and vertical FOV, respectively, defined as the earth curvature-based extent of the observable landscape seen at any given moment, usually measured in degrees (BOEM 2021). The horizontal FOV for each KOP is listed in COP Appendix T (SouthCoast Wind 2024). FOVs are valid and reliable indicators of the magnitude of view occupation by Proposed Action facilities. Typical human perception extends to 124° in the horizontal axis and 55° in the vertical axis. The nearest shoreline viewers would be 23.3 miles (37.5 kilometers) from the Wind Farm Area. EC, at this distance, reduces the observable height above the horizon of the nearest WTG from 1,066 feet (324.9 meters) MLLW to 788 feet (244 meters), resulting in occupation of 0.4° and 0.7 percent of the vertical view. WTGs would further diminish in perceived size with distance and EC.

Table H-3. Heights of noticeable ^a WTG elements and substations and visible distances ^b

Noticeable Element	Height in Feet (meters)	Visible Distance ^b in Miles (kilometers)
Rotor Blade Tip	1,066.3 (325.0) MLLW	0–42.8 (68.9)
Aviation Light	624 (190.2) MLLW	0–33.5 (53.9)
Nacelle	614 (187.1) MLLW	0–33.3 (53.6)
Hub	605.1 (184.4) MLLW	0–30.0 (48.3)
OSP	344.5 (105) MLLW	0–25.5 (41.0)
Mid-tower Light	302 (92) MLLW	0–24.2 (38.9)
Yellow Tower Base Color	50 (15) HAT	0–11.4 (18.3)

^a Perception of Project elements, from 5.5 feet (1.7 meters) human eye level while standing at mean sea level, involves static distance-related sizes, forms, lines, colors, and textures; variable daytime lighting conditions; variable nighttime light conditions; and variable meteorological conditions.

^b Based on intervening EC and clear-day conditions.

HAT = highest astronomical tide

Table H-4. Horizontal FOV occupied by the Proposed Action

Noticeable Element	Width miles (kilometers)	Distance miles (kilometers)	Horizontal FOV	Human FOV	Percent of FOV
Wind Farm	9.8 (15.8)	23.3 (37.5)	22.8°	124°	18%

Table H-5. Vertical FOV occupied by the Proposed Action

Noticeable Element	Height feet (meters)	Distance miles (kilometers)	Height Above Horizon ^a feet (meters)	Vertical FOV	Human FOV	Percent of FOV
Rotor Blade Tip	1,066 feet (324.9) MLLW	23.3 (37.5)	788 (244)	0.4°	55°	0.7%

^a Based on intervening EC and clear-day conditions.

Table H-6 lists the wind farm's distances, horizontal FOVs, noticeable features based on their heights and EC, and visual contrasts. The analysis considers the introduction of WTGs and OSP to an open ocean baseline. The scale, size, contrast, and prominence of change focuses on the following.

- Arrangement of WTGs and OSP in the view.
- Horizontal FOV and vertical FOV scale of the wind farm array, based on WTG and OSP size and number.
- Position of the array in the open ocean.
- Position of the array in the view.
- Turbine array's distance from the viewer.

Visibility, character-changing effects, and visual contrasts reduce steadily with distance from the observation point. Visibility, character-changing effects, scale, prominence, and visual contrasts increase

with elevated observer position in comparison with the wind farm. Distance and observer elevation considerations are informed by the VIA simulations (COP Appendix T; SouthCoast Wind 2024), EC calculations, horizontal FOV, and vertical FOV in undeveloped open ocean. The wind farm and nearest WTGs would be:

- Unavoidably dominant features in the offshore view between 0 and 5 miles (0–8 kilometers) distance.
- Strongly pervasive features in the onshore to offshore view between 5 and 12 miles (8–19.3 kilometers) distance.
- Clearly visible features in the onshore to offshore view between 12 and 28 miles (19.3–45.1 kilometers) distance.
- Low on the horizon, but persistent features in the onshore to offshore view between 28 and 31 miles (45.1–49.9 kilometers) distance.
- Intermittently noticed features in the onshore to offshore view between 31 and 42.8 miles (49.9–68.9 kilometers) distance.
- Below the horizon beyond 42.8 miles (68.9 kilometers) distance.

Visual contrast determinations involve comparisons of characteristics of the seascape, open ocean, and landscape before and after Project implementation. The range of potential contrasts includes strong, moderate, weak, and none (BOEM 2021). The strongest daytime contrasts would result from tranquil and flat seas combined with sunlit WTG towers, nacelles, flickering rotors, and a yellow tower base color against a dark background sky and an undifferentiated foreground. There would be daily variation in WTG color contrast as sun angles change from back-lit to front-lit (sunrise to sunset) and the backdrop would vary under different lighting and atmospheric conditions. The weakest daytime contrasts would result from turbulent seas combined with overcast daylight conditions on WTG towers, nacelles, and rotors against an overcast background sky and a foreground modulated by varied landscape elements. The strongest nighttime contrasts would result from dark skies (absent moonlight) combined with aviation lights, activated lighting on the OSP, mid-tower lights, and Project lighting reflections on low clouds and active (non-reflective) surf, and the dark-sky light dome. The weakest nighttime contrasts would result from moonlit, cloudless skies; tranquil (reflective) seas; Aircraft Detection Lighting System (ADLS) activation; and only mid-tower lights.

The seascape character units, open ocean character unit, landscape character units, and viewer experiences would be affected by the Proposed Action's noticeable features; applicable distances and FOV extents; open views versus view framing and intervening foregrounds; form, line, color, and texture contrasts; scale of change; and prominence in the characteristic seascape and landscape. Higher impact levels would stem from unique, extensive, and long-term appearance of strongly contrasting, large, and prominent vertical structures in the otherwise horizontal seascape environment, where structures are an unexpected element and viewer experience is of formerly open views of high-sensitivity seascape, open ocean, and landscape and from high sensitivity view receptors.

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Table H-6. Wind farm distances, FOVs, noticeable elements, visual contrasts, scale of change, and prominence (magnitude of change)

KOP ^a	Distance in Miles (kilometers)						Proposed Action FOV Degrees (% of 124°)	Noticeable Elements ^g & Impact Level	Contrast, Scale of Change, and Prominence							
	Proposed Action	Alternative C-1	Alternative C-2	Alternative D	Alternative E	Alternative F			Proposed Action Form	Proposed Action Line	Proposed Action Color	Proposed Action Texture	Proposed Action Scale	Proposed Action Prominence ^h	Alternatives C-1, C-2, E, F	Alternative D
KOP-1-O ^b	0–42.8 (0–68.9)	0–42.8 (0–68.9)	0–42.8 (0–68.9)	0–42.8 (0–68.9)	0–42.8 (0–68.9)	0–42.8 (0–68.9)	124° (100%)	R, AL, N, H, O, M, and Y ^g Major	Strong	Strong	Strong	Strong	Large	6	Same as Proposed Action	Same as Proposed Action
KOP-2_O	5–42.8 (0–68.9)	5–42.8 (0–68.9)	5–42.8 (0–68.9)	5–42.8 (0–68.9)	5–42.8 (0–68.9)	5–42.8 (0–68.9)	124° (100%)	R, AL, N, H, O, M, and Y Major	Strong	Strong	Strong	Strong	Large	6	Same as Proposed Action	Same as Proposed Action
KOP-1-MV ^c	30.9 (49.7)	30.9 (49.7)	30.9 (49.7)	30.9 (49.7)	30.9 (49.7)	30.9 (49.7)	27° (22%)	R, AL, and N Minor	Weak	Weak	Weak	Weak	Small	2	Same as Proposed Action	Same as Proposed Action
KOP-2-MV	31.0 (49.8)	31.0 (49.8)	31.0 (49.8)	31.0 (49.8)	31.0 (49.8)	31.0 (49.8)	27° (22%)	R, AL, N, and H Minor	Weak	Weak	Weak	Weak	Small	1	Same as Proposed Action	Same as Proposed Action
KOP-3-MV	31.4 (50.5)	31.4 (50.5)	31.4 (50.5)	31.4 (50.5)	31.4 (50.5)	31.4 (50.5)	27° (22%)	R, AL, and N Minor	Weak	Weak	Weak	Weak	Small	2	Same as Proposed Action	Same as Proposed Action
KOP-4-MV	32.2 (51.8)	32.2 (51.8)	32.2 (51.8)	32.2 (51.8)	32.2 (51.8)	32.2 (51.8)	29° (24%)	R, AL, and N Minor	Weak	Weak	Weak	Weak	Small	2	Same as Proposed Action	Same as Proposed Action
KOP-6-MV	33.6 (54.1)	33.6 (54.1)	33.6 (54.1)	33.6 (54.1)	33.6 (54.1)	33.6 (54.1)	32° (26%)	R Minor	Weak	Weak	Weak	Weak	Small	2	Same as Proposed Action	Same as Proposed Action
KOP-9-MV	36.9 (59.4)	36.9 (59.4)	36.9 (59.4)	36.9 (59.4)	36.9 (59.4)	36.9 (59.4)	30° (24%)	R Minor	Weak	Weak	Weak	Weak	Small	1	Same as Proposed Action	Same as Proposed Action
KOP-16-MV	37.2 (59.9)	37.2 (59.9)	37.2 (59.9)	37.2 (59.9)	37.2 (59.9)	37.2 (59.9)	32° (26%)	R Minor	Weak	Weak	Weak	Weak	Small	2	Same as Proposed Action	Same as Proposed Action
KOP-19-MV ⁱ	41.2 (66.3)	41.2 (66.3)	41.2 (66.3)	41.2 (66.3)	41.2 (66.3)	41.2 (66.3)	30° (24%)	R, AL, N, and H Minor	Weak	Weak	Weak	Weak	Small	2	Same as Proposed Action	Same as Proposed Action
KOP-2-N ^d	24.4 (42.6)	24.4 (42.6)	24.4 (42.6)	24.7 (39.7)	24.4 (42.6)	24.4 (42.6)	24° (19%)	R, AL, N, H, and O Moderate	Weak	Moderate	Moderate	Weak	Medium	4	Same as Proposed Action	Same as Proposed Action
KOP-3-N	24.3 (39.1)	24.3 (39.1)	24.3 (39.1)	24.4 (39.3)	24.3 (39.1)	24.3 (39.1)	24° (19%)	R, AL, N, H, and O Moderate	Weak	Weak	Moderate	Weak	Small	2	Same as Proposed Action	Same as Proposed Action
KOP-6-N	26.5 (42.6)	26.5 (42.6)	26.5 (42.6)	27.2 (43.8)	26.5 (42.6)	26.5 (42.6)	17° (14%)	R, AL, N, and H Moderate	Weak	Weak	Moderate	Weak	Medium	3	Same as Proposed Action	Same as Proposed Action

KOP ^a	Distance in Miles (kilometers)						Proposed Action FOV Degrees (% of 124°)	Noticeable Elements ^g & Impact Level	Contrast, Scale of Change, and Prominence							
	Proposed Action	Alternative C-1	Alternative C-2	Alternative D	Alternative E	Alternative F			Proposed Action Form	Proposed Action Line	Proposed Action Color	Proposed Action Texture	Proposed Action Scale	Proposed Action Prominence ^h	Alternatives C-1, C-2, E, F	Alternative D
KOP-8-N (Day)	25.6 (41.2)	25.6 (41.2)	25.6 (41.2)	26.2 (42.2)	25.6 (41.2)	25.6 (41.2)	19° (15%)	R, AL, N, and H Moderate	Weak	Weak	Weak	Weak	Medium	3	Same as Proposed Action	Same as Proposed Action
KOP-8-N (Night)	25.6 (41.2)	25.6 (41.2)	25.6 (41.2)	26.2 (42.2)	25.6 (41.2)	25.6 (41.2)	19° (15%)	R, AL, N, and H Moderate	Weak	Weak	Strong	Weak	Medium	5	Same as Proposed Action	Same as Proposed Action
KOP-10-N	24.2 (38.9)	24.2 (38.9)	24.2 (38.9)	24.7 (39.7)	24.2 (38.9)	24.2 (38.9)	22° (18%)	R, AL, N, H, O, and M Moderate	Moderate	Moderate	Moderate	Weak	Medium	4	Same as Proposed Action	Same as Proposed Action
KOP-11-N	23.3 (37.5)	23.3 (37.5)	23.3 (37.5)	23.7 (38.1)	23.3 (37.5)	23.3 (37.5)	23° (19%)	R, AL, N, H, O, and M Moderate	Moderate	Weak	Moderate	Weak		3	Same as Proposed Action	Same as Proposed Action
KOP-12-N (Day)	23.5 (37.8)	23.5 (37.8)	23.5 (37.8)	23.8 (38.3)	23.5 (37.8)	23.5 (37.8)	24° (19%)	R, AL, N, H, O, and M Moderate	Moderate	Moderate	Moderate	Weak	Medium	4	Same as Proposed Action	Same as Proposed Action
KOP-12-N (Night)	23.5 (37.8)	23.5 (37.8)	23.5 (37.8)	23.8 (38.3)	23.5 (37.8)	23.5 (37.8)	24° (19%)	R, AL, N, H, O, and M Moderate	Moderate	Moderate	Strong	Weak	Medium	5	Same as Proposed Action	Same as Proposed Action
KOP-13-N	23.6 (38.0)	23.6 (38.0)	23.6 (38.0)	24.0 (38.6)	23.6 (38.0)	23.6 (38.0)	26° (21%)	R, AL, N, H, O, and M Moderate	Moderate	Moderate	Moderate	Weak	Medium	3	Same as Proposed Action	Same as Proposed Action
KOP-16-N	23.8 (38.3)	23.8 (38.3)	23.8 (38.3)	24.0 (38.6)	23.8 (38.3)	23.8 (38.3)	26° (21%)	R, AL, N, H, O, and M Moderate	Moderate	Weak	Moderate	Weak	Medium	4	Same as Proposed Action	Same as Proposed Action
KOP-17-N	24.0 (38.6)	24.0 (38.6)	24.0 (38.6)	24.4 (39.3)	24.0 (38.6)	24.0 (38.6)	24° (19%)	R, AL, N, H, O, and M Moderate	Moderate	Weak	Moderate	Weak	Medium	4	Same as Proposed Action	Same as Proposed Action
KOP-18-N	23.4 (37.7)	23.4 (37.7)	23.4 (37.7)	23.8 (38.3)	23.4 (37.7)	23.4 (37.7)	24° (19%)	R, AL, N, H, O, and M Moderate	Moderate	Weak	Moderate	Weak	Small	4	Same as Proposed Action	Same as Proposed Action
KOP-20-N	24.8 (39.9)	24.8 (39.9)	24.8 (39.9)	25.4 (40.9)	24.8 (39.9)	24.8 (39.9)	21° (17%)	R, AL, N, H, and O Moderate	Moderate	Weak	Moderate	Weak	Medium	2	Same as Proposed Action	Same as Proposed Action
KOP-21-N	29.4 (47.3)	29.4 (47.3)	29.4 (47.3)	29.9 (48.1)	29.4 (47.3)	29.4 (47.3)	17° (14%)	R, AL, N, H, O, and M Minor	Weak	Weak	Weak	Weak	Small	2	Same as Proposed Action	Same as Proposed Action
KOP-22-N	24.2 (38.9)	24.2 (38.9)	24.2 (38.9)	24.4 (39.3)	24.2 (38.9)	24.2 (38.9)	26° (21%)	R, AL, N, H, O, and M Moderate	Moderate	Weak	Moderate	Weak	Small	3	Same as Proposed Action	Same as Proposed Action
KOP-1-BP ^e	0.4 (0.7)	NA	NA	NA	NA	NA	NA	Unseen Negligible	Weak	Weak	Weak	Weak	Small	3	Same as Proposed Action	Same as Proposed Action

KOP ^a	Distance in Miles (kilometers)						Proposed Action FOV Degrees (% of 124°)	Noticeable Elements ^g & Impact Level	Contrast, Scale of Change, and Prominence							
	Proposed Action	Alternative C-1	Alternative C-2	Alternative D	Alternative E	Alternative F			Proposed Action Form	Proposed Action Line	Proposed Action Color	Proposed Action Texture	Proposed Action Scale	Proposed Action Prominence ^h	Alternatives C-1, C-2, E, F	Alternative D
KOP-3-BP	0.5 (0.8)	NA	NA	NA	NA	NA	NA	Unseen Negligible	Weak	Weak	Weak	Weak	Small	3	Same as Proposed Action	Same as Proposed Action
KOP-4-BP	0.8 (1.3)	NA	NA	NA	NA	NA	NA	Unseen Negligible	Weak	Weak	Weak	Weak	Small	3	Same as Proposed Action	Same as Proposed Action
KOP-44-C ^f	0.1 (0.2)	NA	NA	NA	NA	NA	NA	Structures Major	Strong	Strong	Strong	Strong	Large	6	Same as Proposed Action	Same as Proposed Action
KOP-46-C	0.2 (0.3)	NA	NA	NA	NA	NA	NA	Structures Major	Strong	Strong	Strong	Moderate	Large	5	Same as Proposed Action	Same as Proposed Action
KOP-47-C	0.2 (0.3)	NA	NA	NA	NA	NA	NA	Structures Major	Strong	Strong	Strong	Moderate	Large	5	Same as Proposed Action	Same as Proposed Action
KOP-49-C	0.3 (0.4)	NA	NA	NA	NA	NA	NA	Structures Moderate	Moderate	Weak	Moderate	Weak	Medium	3	Same as Proposed Action	Same as Proposed Action

^a KOP-1-MV = Wasque Point. KOP-2-MV = Wasque Point Reservation. KOP-3-MV = Wasque Avenue, KOP-4-MV = South Beach, KOP-6-MV = Long Point Beach, KOP-9-MV = 322 South Road, KOP-16-MV = Squibnocket Beach, KOP-19-MV Gay Head Lighthouse, KOP-2-N = Sanford Farm Barn Overlook, KOP-3-N = Madaket Beach, KOP-6-N = Tom Nevers Beach, KOP-8-N = Tom Nevers Field, KOP-10-N = Nobadeer Beach, KOP-11-N = Miacomet Beach and Pond, KOP-12-N = Cisco Beach, KOP-13-N = Hummock Pond Road Bike Path, KOP-16-N = Head of Plains, KOP-17-N Bartlett’s Farm, KOP-18-N = Ladies Beach, KOP-20-N = Madequecham 1, KOP-21-N Sankaty Head Lighthouse, KOP-22-N = Madaket Beach at Sunset, KOP-1-O Recreational Fishing, Pleasure, and Tour Boat Area, KOP-2-O Commercial and Cruise Ship Shipping Lanes, KOP-1-BP = Brayton Point Beach, KOP-3-BP = Sycamore Street, KOP-4-BP = Route 103 at Anthony Bridge, KOP-44-C = Oak Grove Cemetery, KOP-46-C = Goodwill Park, KOP-47-C = Lawrence Lynch Site Road - Gifford Street Substation Road, and KOP-49-C = Two Ponds

^b O = Ocean

^c MV = Martha’s Vineyard

^d N = Nantucket

^e BP – Brayton Point

^f C= Cape Cod

^g Noticeable elements: R = rotor, AL = aviation light, N = nacelle, H = hub, O = OSP, M = mid-tower light, Y = yellow tower base color

^h WTGs and OSP visibility: 0 = Not visible. 1 = Visible only after extended study; otherwise not visible. 2 = Visible when viewing in general direction of the wind farm; otherwise likely to be missed by casual observer. 3 = Visible after brief glance in general direction of the wind farm; unlikely to be missed by casual observer. 4 = Plainly visible; could not be missed by casual observer, but does not strongly attract visual attention or dominate view. 5 = Strongly attracts viewers’ attention to the wind farm; moderate to strong contrasts in form, line, color, or texture, luminance, or motion. 6 = Dominates view; strong contrasts in form, line, color, texture, luminance, or motion fill most of the horizontal FOV or vertical FOV (NAEP 2012).

ⁱ Elevated lighthouse viewpoint

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Construction involving moving and stationary visual feature contrasts to forms, lines, colors, textures, scale, and prominence in formerly open ocean may have more effect on viewers than operational and decommissioning impacts, where the viewing context is existing WTGs and substations. Construction impacts would be temporary and would include the following.

- Daytime and nighttime movement of installation vessels, cranes, and other equipment visible in the open ocean in and around the Lease Area.
- Dawn, dusk, and nighttime construction lighting on WTGs and OSP.
- Beach, other sensitive land-based, and boat and cruise ship views of WTGs and OSP under construction.
- Laying of the offshore and onshore buried export cables and the connections between offshore and onshore export cables at landing sites.
- Activities along the onshore landfalls, export cable routes, and Brayton Point and Falmouth onshore converter station and substation sites.

Operational effects would be similar to those of end-stage construction and would be long term and fully reversible.

Proposed Action impacts on high-sensitivity open ocean character would be **major**. The daytime and nighttime (lighting) presence of the WTGs, OSP, and construction and O&M vessel traffic would change perception of this area from natural, undeveloped open ocean to a developed wind energy environment characterized by visually dominant WTGs and OSP.

Maintenance activities would cause **minor** effects on open ocean character by increased O&M vessel traffic to and from the Wind Farm Area. Increases in these vessel movements would be noticeable to offshore viewers but are unlikely to have a significant effect.

Decommissioning would involve the removal of all offshore structures and is expected to follow the reverse of the construction activity. Decommissioning activities would cause effects similar to those of construction activities.

Daytime lighting of WTGs is not required. ADLS would reduce nighttime impact levels from **major** or **moderate** to **negligible**, due to substantially limited hours of lighting. Residual impacts would result from the presence of continuously flashing lights, a sky light dome, and reflections on clouds during those limited hours. Lights of the up to five OSPs, when lit for maintenance, potentially would be visible from beaches and adjoining land and the built environment during hours of darkness. The nighttime sky light dome and cloud lighting caused by reflections from the water surface may be seen from distances beyond the 42.8-mile (68.9-kilometer) geographic analysis area, depending on variable ocean surface and meteorological reflectivity. The onshore substation and converter stations' nighttime lighting would be visible in their immediate neighborhoods during the hours of darkness and similar in magnitude and extent to existing conditions.

Table H-7 lists the Proposed Action's noticeable features based on their heights, distances, and EC.

Table H-7. Noticeable elements and impacts by seascape character unit, open ocean character unit, landscape character unit, and KOP for the Proposed Action

Noticeable Elements ^a Impacts	Seascape Units, Open Ocean Unit, Landscape Units, and Offshore and Onshore Key Observation Points
R, AL, N, H, O, M, and Y Major	Open Ocean Character Unit KOP-1-O Recreational Fishing, Pleasure, and Tour Boat Area KOP-2-O Commercial and Cruise Ship Shipping Lanes
R, AL, N, H, O, and M Major	KOP-8-N Tom Nevers Field-Nighttime ^b KOP-12-N Cisco Beach-Nighttime ^b
R, AL, N, H, O, and M Moderate	Seascape and Landscape Character Units KOP-8-N Tom Nevers Field-Daytime KOP-10-N Nobadeer Beach KOP-11-N Miacomet Beach and Pond KOP-12-N Cisco Beach-Daytime KOP-13-N Hummock Pond Road Bike Path KOP-16-N Head of Plains KOP-17-N Bartlett's Farm KOP-18-N Ladies Beach KOP-22-N Madaket Beach at Sunset
R, AL, N, H, O, and M Minor	KOP-19-MV Gay Head Lighthouse (Elevated viewpoint)
R, AL, N, H, and O Moderate	KOP-2-N Sanford Farm Barn Overlook KOP-3-N Madaket Beach KOP-20-N Madequecham 1
R, AL, N, H, and O Minor	KOP-21-N Sankaty Head Lighthouse (Elevated viewpoint)
R, AL, N, and H Minor	KOP-2-MV Wasque Point Reservation KOP-6-N Tom Nevers Beach
R, AL, and N Minor	Landscape Character Units KOP-1-MV Wasque Point KOP-3-MV Wasque Avenue KOP-4-MV South Beach
R Minor	KOP-6-MV Long Point Beach KOP-9-MV 322 South Road KOP-16-MV Squibnocket Beach
R, AL, N, H, O, and M Negligible	KOP-8-N Tom Nevers Field-Nighttime ^c KOP-12-N Cisco Beach-Nighttime ^c
Onshore substation structures Major	KOP-44-C Oak Grove Cemetery KOP-46-C Goodwill Park KOP-47-C Lawrence Lynch Site Road - Gifford Street Substation Road
Onshore substation structures Moderate	KOP-49-C Two Ponds
Onshore substation structures Negligible	KOP-1-BP Brayton Point Beach KOP-3-BP Sycamore Street KOP-4-BP Route 103 at Anthony Bridge

^a R = rotor, AL = aviation light, N = nacelle, H = hub, O = OSP, M = mid-tower light, Y = yellow tower base color

^b Major impacts when ADLS is activated.

^c Negligible impacts when ADLS is not activated.

Table H-8 summarizes the Proposed Action’s noticeability based on distance and effects on the seascape units, open ocean unit, landscape units, and KOPs. Noticeability is based on the offshore wind turbine visibility work by Robert Sullivan (Sullivan et al. 2013).

Table H-8. Wind farm distance effects by seascape character unit, open ocean character unit, landscape character unit, and KOP for the Proposed Action

Distance in Miles (km) Effects	Seascape Units, Open Ocean Unit, Landscape Units, and Offshore and Onshore Key Observation Points
0–40.0 (0–64.4) Dominant/Major to Minor Noticeability	Open Ocean Character Unit KOP-1-O Recreational Fishing, Pleasure, and Tour Boat Area
5.0–40.0 (8.0–64.4) Dominant/Major to Minor Noticeability	Open Ocean Character Unit KOP-2-O Cruise Ship Shipping Lanes
23.5–25.6 (37.8–41.2) Dominant/Major Noticeability	KOP-8-N Tom Nevers Field-Nighttime KOP-12-N Cisco Beach-Nighttime
23.3–24.2 (37.5–38.9) Moderate Noticeability	<p>Seascape Character Units:</p> <ul style="list-style-type: none"> • Ocean • Sound • Beachfront • Coastal Bluff • Coastal Dune • Boardwalk • Coastal Scrub • Commercial • Forests/Woodlands • Institutional • Park • Preserve • Residential • Salt Pond • Transportation • Village/Town <p>KOPs:</p> <p>KOP-8-N Tom Nevers Field-Daytime KOP-10-N Nobadeer Beach KOP-11-N Miacomet Beach and Pond KOP-12-N Cisco Beach-Daytime KOP-13-N Hummock Pond Road Bike Path KOP-16-N Head of Plains KOP-17-N Bartlett’s Farm KOP-18-N Ladies Beach KOP-20-N Madequecham 1 KOP-22-N Madaket Beach at Sunset</p>

Distance in Miles (km) Effects	Seascape Units, Open Ocean Unit, Landscape Units, and Offshore and Onshore Key Observation Points
24.3–33.6 (39.1–54.1) Minor Noticeability	<p>Seascape Character Units:</p> <ul style="list-style-type: none"> • Ocean • Sound • Beachfront • Coastal Bluff • Coastal Dune • Boardwalk • Coastal Scrub • Commercial • Forests/Woodlands • Institutional • Park • Preserve • Residential • Salt Pond • Transportation • Village/Town <p>Landscape Character Units:</p> <ul style="list-style-type: none"> • Agriculture • Coastal Scrub • Commercial • Estuary • Forests/Woodlands • Institutional • Light Industrial • Marshland • Park • Preserve • Residential • Salt Pond • Pond Shoreline • Transportation • Village/Town <p>KOPs:</p> <p>KOP-1-MV Wasque Point KOP-2-MV Wasque Point Reservation KOP-3-MV Wasque Avenue KOP-4-MV South Beach KOP-6-MV Long Point Beach KOP-9-MV 322 South Road KOP-16-MV Squibnocket Beach KOP-2-N Sanford Farm Barn Overlook KOP-3-N Madaket Beach KOP-6-N Tom Nevers Beach KOP-8-N Tom Nevers Field-Daytime</p>
29.4-41.2 (47.3-66.3) Minor Noticeability	<p>KOP-21-N Sankaty Head Lighthouse (elevated viewpoint) KOP-19-MV Gay Head Lighthouse (elevated viewpoint)</p>

Distance in Miles (km) Effects	Seascape Units, Open Ocean Unit, Landscape Units, and Offshore and Onshore Key Observation Points
31.1–42.8 (50.1–68.9) Minor to Negligible Noticeability	Landscape Character Units: <ul style="list-style-type: none"> • Agriculture • Coastal Scrub • Commercial • Estuary • Forests/Woodlands • Institutional • Light Industrial • Marshland • Park • Preserve • Residential • Salt Pond • Pond Shoreline • Transportation • Village/Town

km = kilometers

Table H-9 summarizes the Proposed Action’s wind farm percent of FOV occupied by the wind farm, and effects on the seascape units, landscape units, and KOPs’ viewer experience. FOV measures consider size, horizontal extent, and vertical extent of the facilities and indicate the scale of impact in comparison with the typical 124-degree human view cone. The WTG array’s configuration results in narrower angles and shorter distances from Nantucket and wider angles from Martha’s Vineyard’s greater distances. Thus, moderate to minor effects involve both distance’s noticeable elements and FOV measures.

Table H-9. Wind farm percent of FOV and effects by seascape character unit, open ocean character unit, landscape character unit, and KOP for the Proposed Action

Percent (°) of 124° FOV POV ^a Effects ^b	Seascape Units, Open Ocean Unit, Landscape Units, and Offshore and Onshore Key Observation Points
100% (124°) to 16% (20°) Dominant/Major to Minor	Open Ocean Character Unit KOP-1-O Recreational Fishing, Pleasure, and Tour Boat Area KOP-2-O Cruise Ship Shipping Lanes
21% (26°) to 17% (19°) Moderate	Seascape Character Units: <ul style="list-style-type: none"> • Ocean • Sound • Beachfront • Coastal Bluff • Coastal Dune • Boardwalk • Coastal Scrub • Commercial • Forests/Woodlands • Institutional • Park • Preserve • Residential

Percent (°) of 124° FOV POV ^a Effects ^b	Seascape Units, Open Ocean Unit, Landscape Units, and Offshore and Onshore Key Observation Points
	<ul style="list-style-type: none"> • Salt Pond • Transportation • Village/Town <p>Landscape Character Units:</p> <ul style="list-style-type: none"> • Agriculture • Coastal Scrub • Commercial • Estuary • Forests/Woodlands • Institutional • Light Industrial • Marshland • Park • Preserve • Residential • Salt Pond • Pond Shoreline • Transportation • Village/Town <p>KOP-8-N Tom Nevers Field-Daytime KOP-10-N Nobadeer Beach KOP-11-N Miacomet Beach and Pond KOP-12-N Cisco Beach-Daytime KOP-13-N Hummock Pond Road Bike Path KOP-16-N Head of Plains KOP-17-N Bartlett's Farm KOP-18-N Ladies Beach KOP-20-N Madequecham 1 KOP-22-N Madaket Beach at Sunset</p>
26% (32°) to 14% (17°) Minor to Moderate	<p>Seascape Character Units:</p> <ul style="list-style-type: none"> • Ocean • Sound • Beachfront • Coastal Bluff • Coastal Dune • Boardwalk • Coastal Scrub • Commercial • Forests/Woodlands • Institutional • Park • Preserve • Residential • Salt Pond • Transportation • Village/Town <p>Landscape Character Units:</p> <ul style="list-style-type: none"> • Agriculture

Percent (°) of 124° FOV POV ^a Effects ^b	Seascape Units, Open Ocean Unit, Landscape Units, and Offshore and Onshore Key Observation Points
	<ul style="list-style-type: none"> • Coastal Scrub • Commercial • Estuary • Forests/Woodlands • Institutional • Light Industrial • Marshland • Park • Preserve • Residential • Salt Pond • Pond Shoreline • Transportation • Village/Town <p> KOP-1-MV Wasque Point KOP-2-MV Wasque Point Reservation KOP-3-MV Wasque Avenue KOP-4-MV South Beach KOP-6-MV Long Point Beach KOP-9-MV 322 South Road KOP-16-MV Squibnocket Beach KOP-19-MV Gay Head Lighthouse (elevated viewpoint) KOP-2-N Sanford Farm Barn Overlook KOP-3-N Madaket Beach KOP-6-N Tom Nevers Beach KOP-21-N Sankaty Head Lighthouse (elevated viewpoint) </p>

^a Percent of view

^b Wind farm array configuration results in narrower angles from Nantucket and wider angles from Martha's Vineyard's greater distances. Thus, overall moderate to minor effects involve distance and noticeable elements.

Foreground influence assessments, involving the presence of intervening or framing elements and their influence on effects of Project characteristics, are based on each KOP's locale photography and visual simulations (Attachment 3 of Appendix T; SouthCoast Wind 2024) and summarized in Table H-10.

Table H-10. Foreground view framing and intervening elements for the Proposed Action

Foreground Element(s) Influence	Seascape Units, Open Ocean Unit, Landscape Units, and Offshore and Onshore Key Observation Points
Open Ocean Negligible Influence	Open Ocean Character Unit KOP-1-O Recreational Fishing, Pleasure, and Tour Boat Area KOP-2-O Cruise Ship Shipping Lanes
Beach, Dunes, and Ocean Minor Influence	Seascape Character Units: <ul style="list-style-type: none"> • Ocean • Sound • Beachfront • Coastal Bluff • Coastal Dune • Boardwalk • Coastal Scrub • Commercial • Forests/Woodlands • Institutional • Park • Preserve • Residential • Salt Pond • Transportation • Village/Town KOP-1-MV Wasque Point KOP-4-MV South Beach KOP-6-MV Long Point Beach KOP-16-MV Squibnocket Beach KOP-6-N Tom Nevers Beach KOP-10-N Nobadeer Beach KOP-11-N Miacomet Beach and Pond KOP-12-N Cisco Beach-Daytime KOP-18-N Ladies Beach KOP-20-N Madequecham 1 KOP-22-N Madaket Beach at Sunset
Buildings, Vegetation, and Topography Moderate to Dominant Influence	Landscape Character Units: <ul style="list-style-type: none"> • Agriculture • Coastal Scrub • Commercial • Estuary • Forests/Woodlands • Institutional • Light Industrial • Marshland • Park • Preserve • Residential • Salt Pond • Pond Shoreline • Transportation • Village/Town

Foreground Element(s) Influence	Seascape Units, Open Ocean Unit, Landscape Units, and Offshore and Onshore Key Observation Points
	KOP-2-N Sanford Farm Barn Overlook KOP-3-N Madaket Beach

Proposed Action contrasts in the characteristic seascape and landscape, as perceived in views from each KOP, are based on visual simulations (COP Appendix T, Attachment 3; SouthCoast Wind 2024). Seascape unit view contrasts are estimated based on similar open view conditions in ocean environments. Landscape and seascape compatibility and photography conditions for each viewpoint are presented in COP Appendix T, Table 5-6 and Table 5-7, and Attachment T.1, Table 3-1 (SouthCoast Wind 2024). The COP landscape and seascape evaluation-scale ranges from faint, apparent, conspicuous, and prominent to dominant. Onshore viewpoints Oak Grove Cemetery, Goodwill Park, and Lawrence Lynch site road would result in prominent and dominant conditions. Offshore potential viewpoints' evaluations range from faint to dominant. Visual contrast determinations involve comparisons of characteristics of the seascape and landscape before and after Proposed Action implementation. The range of potential contrasts includes strong, moderate, weak, and none. The strongest daytime contrasts would result from tranquil and flat seas combined with sunlit WTG towers, nacelles, flickering rotors, and the yellow tower base color against a dark background sky and an undifferentiated foreground. The weakest daytime contrasts would result from turbulent seas combined with overcast daylight conditions on WTG towers, nacelles, and rotors against an overcast background sky and a foreground modulated by varied landscape elements. The strongest nighttime contrasts would result from dark skies (absent moonlight) combined with aviation lights, activated lighting on the OSP mid-tower lights, and Project lighting reflections on low clouds and active (non-reflective) surf, and the dark-sky light dome. The weakest nighttime contrasts would result from moonlit, cloudless skies, tranquil (reflective) seas, ADLS activation, and only mid-tower lights.

Photographic comparisons of characteristics of the seascape's and landscape's existing conditions and Proposed Action implementation are included in COP Appendix T, Attachment 3 (SouthCoast Wind 2024) for each of the KOPs in the following summary tables. Visual contrast determinations are listed in Table H-11.

Table H-11. Visual contrasts to seascape, open ocean, landscape, and KOPs for the Proposed Action

Contrast Rating Effects	Seascape, Open Ocean, Landscape, and Offshore and Onshore Key Observation Points
Strong Contrasts Major	Open Ocean KOP-1-O Recreational Fishing, Pleasure, and Tour Boat Area KOP-2-O Cruise Ship Shipping Lanes
Strong Contrasts (Limited Timeframe) Moderate	KOP-8-N Tom Nevers Field-Nighttime (the limited timeframe due to ADLS results in downward rating from Major to Negligible) KOP-12-N Cisco Beach-Nighttime (the limited timeframe due to ADLS results in downward rating from Major to Negligible)
Moderate Contrasts Moderate	Seascapes and Landscapes within 28 miles (kilometers) in the Wind Farm Area viewshed KOP-3-N Madaket Beach

Contrast Rating Effects	Seascape, Open Ocean, Landscape, and Offshore and Onshore Key Observation Points
	KOP-6-N Tom Nevers Beach KOP-8-N Tom Nevers Field-Daytime KOP-10-N Nobadeer Beach KOP-11-N Miacomet Beach and Pond KOP-12-N Cisco Beach-Daytime KOP-13-N Hummock Pond Road Bike Path KOP-16-N Head of Plains KOP-17-N Bartlett's Farm KOP-18-N Ladies Beach KOP-20-N Madequecham 1 KOP-22-N Madaket Beach
Weak Contrasts Minor	Seascapes and Landscapes beyond 28 miles (kilometers) in the Wind Farm Area viewshed KOP-1-MV Wasque Point KOP-2-MV Wasque Point Reservation KOP-3-MV Wasque Avenue KOP-4-MV South Beach KOP-6-MV Long Point Beach KOP-9-MV 322 South Road KOP-16-MV Squibnocket Beach KOP-19-MV Gay Head Lighthouse (Elevated viewpoint) KOP-2-N Sanford Farm Barn Overlook KOP-21-N Sankaty Head Lighthouse (Elevated viewpoint)
None to very weak Negligible	Seascapes, Landscapes, and viewer locations not in the Wind Farm Development Area viewshed

Table H-12 summarizes sensitivity, susceptibility, and magnitude of change in consideration of Proposed Action impacts on the seascape character units, open ocean character unit, and landscape character units throughout the geographic analysis area. The seascape, open ocean, and landscape criteria listed in Table H-1 and consideration of the preceding assessments would result in impact levels for character units as shown in Table H-12.

Table H-12. Proposed Action impacts on seascape character, open ocean character, and landscape character

Level of Impact	Seascape Character Units, Open Ocean Character Unit, and Landscape Character Units
Major	SLIA: Open Ocean Character Unit
Moderate	SLIA: Seascape Character Units and Landscape Character Units within the viewshed and within 28 miles of WTGs
Minor	SLIA: Seascape Character Units and Landscape Character Units within the viewshed and beyond 28 miles of WTGs
Negligible	SLIA: Seascape Character Units and Landscape Character Units outside of the WTG viewshed

SLIA = seascape, open ocean, and landscape impact assessment

Table H-13 summarizes Proposed Action impacts on viewer experience (KOP locations) throughout the geographic analysis area. The viewer experience criteria listed in Table H-1 and consideration of the preceding assessments would result in impact levels for KOPs as shown in Table H-13.

Table H-13. Impact levels on viewer experience for the Proposed Action

Impact Level	Offshore and Onshore Key Observation Points
Major	VIA: KOP-1-O Recreational Fishing, Pleasure, and Tour Boat Area KOP-2-O Commercial and Cruise Ship Shipping Lanes KOP-8-N Tom Nevers Field-Nighttime ^a KOP-12-N Cisco Beach-Nighttime ^a KOP-44-C Oak Grove Cemetery KOP-46-C Goodwill Park KOP-47-C Lawrence Lynch Site
Moderate	VIA: KOP-8-N Tom Nevers Field-Daytime KOP-10-N Nobadeer Beach KOP-11-N Miacomet Beach and Pond KOP-12-N Cisco Beach-Daytime KOP-13-N Hummock Pond Road Bike Path KOP-16-N Head of Plains KOP-17-N Bartlett's Farm KOP-18-N Ladies Beach KOP-20-N Madequecham 1 KOP-22-N Madaket Beach at Sunset KOP-49-C Two Ponds
Minor	VIA: KOP-1-MV Wasque Point KOP-2-MV Wasque Point Reservation KOP-3-MV Wasque Avenue KOP-4-MV South Beach KOP-6-MV Long Point Beach KOP-9-MV 322 South Road KOP-16-MV Squibnocket Beach KOP-19-MV Gay Head Lighthouse (Elevated viewpoint) KOP-2-N Sanford Farm Barn Overlook KOP-3-N Madaket Beach KOP-6-N Tom Nevers Beach KOP-21-N Sankaty Head Lighthouse (Elevated viewpoint)
Negligible	KOP-8-N Tom Nevers Field-Nighttime ^b KOP-12-N Cisco Beach-Nighttime ^b KOP-1-BP Brayton Point Beach KOP-3-BP Sycamore Street KOP-4-BP Route 103 at Anthony Bridge

^a Major impacts when ADLS is activated.

^b Negligible impacts when ADLS is not activated.

H.3.1.1 Cumulative Impacts of the Proposed Action

NEPA requires consideration of other reasonably foreseeable activities in the Project's viewshed and the Project's incremental effects on seascape character, open ocean character, landscape character, and viewer experience. These effects include direct physical effects on the seascape, open ocean, and landscape or changes to the distinct character of the seascape, open ocean, and landscape.

Effects on seascape character, open ocean character, and landscape character can occur in the following conditions (SLVIA Chapter 8; BOEM 2021).

- Multi-project WTGs and OSPs visible within or from the open ocean character unit as overlapping or adjacent features and elements.
- Multi-project WTGs and OSPs visible from seascape character units as overlapping or adjacent features and elements.
- Multi-project WTGs and OSPs visible from landscape character units as overlapping or adjacent features and elements.

Effects on viewer experience can occur in the following conditions (SLVIA Chapter 8; BOEM 2021).

- Multi-project WTGs and OSPs visible as overlapping features and elements.
- Multi-project WTGs and OSPs visible as adjacent features and elements.
- Multi-project WTGs and OSPs visible as viewers move through the seascape, open ocean, and landscape.

Attachment H-1 portrays simulations of the incremental effects of the Project in the context of other offshore wind projects, from a total of eight KOPs: five KOPs on Nantucket Island; an additional nighttime simulation for one of these KOPs (Cisco Beach); and two KOPs on Martha's Vineyard.

The visual simulations portray five incremental construction scenarios, as follows.

- Scenario 1: 2023–2025 Project Construction (Vineyard Wind, South Fork Wind, Revolution Wind, Sunrise Wind and New England Wind).
- Scenario 2: SouthCoast Wind Project Construction with prior 2023–2025 Project Construction (from Scenario 1).
- Scenario 3: 2024–2030 Project Construction (New England Wind II, Vineyard Wind Northeast [formerly Liberty Wind], Beacon Wind and Bay State Wind) with prior 2023–2025 Project Construction (Vineyard Wind, South Fork Wind, Revolution Wind, Sunrise Wind and New England Wind) and SouthCoast Wind Project Construction.
- Scenario 4 (full buildout): 2023–2025 Project Construction (Vineyard Wind, South Fork Wind, Revolution Wind, Sunrise Wind and New England Wind) and 2024–2030 Project Construction (New England Wind II, Vineyard Wind Northeast [formerly Liberty Wind], Beacon Wind and Bay State Wind) without SouthCoast Wind Project Construction.

- Scenario 5: The Project without other foreseeable planned activities.

The number of offshore wind structures simulated in Attachment H-1 differs slightly from the number of structures assumed in Appendix D, *Planned Activities Scenario*. This is due to the timing of when these documents were developed and the assumptions used in developing the layouts for the simulations. While the number of structures in the individual lease areas vary, the total number of structures assumed across the Massachusetts and Rhode Island lease areas is very similar between the two documents, with Appendix D assuming development of 1,069 structures and the cumulative visual simulations assuming development of 1,063 structures, a difference of only six structures. The number of offshore structures identified in both documents are estimates of reasonably foreseeable offshore wind development and are subject to change as lessees submit COPs and refine their development plans. BOEM believes the simulations presented in Attachment H-1 provide a reasonable approximation of the scale of visual impacts that would occur from development of the Proposed Action in combination with other ongoing and planned offshore wind projects.

Consideration of effects of other wind farms on seascape character, open ocean character, and landscape character is listed in Table H-14.

Consideration of effects on viewer experience of other wind farms is listed in Table H-15.

Consideration of effects on seascape character, open ocean character, and landscape character of other wind farms in combination with the Proposed Action is listed in Table H-16.

Consideration of effects on viewer experience of other wind farms in combination with the Proposed Action is listed in Table H-17.

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Table H-14. Other wind farms’ seascape, open ocean, and landscape units cumulative wind farm distances, FOVs, noticeable elements, visual contrasts, scale of change, and prominence

Character Unit	Distance in miles (kilometers) ^c								FOV Degrees (% of 124°)	Noticeable Elements ^d & Impact Level	Visual Contrast, Scale of Change, and Prominence					
	BSW ^a	BW ^a	VWN ^a	NEW ^a	SFW ^a	SW ^a	RW ^a	VW ^a			Form	Line	Color	Texture	Scale	Prominence ^e
Martha’s Vineyard Seascape (Beaches) ^b	15.0 (24.1)	29.2 (47.0)	45.6 (73.4)	22.9 (36.8)	21.9 (35.2)	16.8 (27.0)	12.2 (19.6)	19.2 (30.9)	134° (109%)	R, AL, N, H, O, and M Major	Strong	Strong	Strong	Strong	Large	6 to 0
Open Ocean	0 to 42.8 (0 to 68.9)	0 to 42.8 (0 to 68.9)	0 to 42.8 (0 to 68.9)	0 to 42.8 (0 to 68.9)	0 to 42.8 (0 to 68.9)	0 to 42.8 (0 to 68.9)	0 to 42.8 (0 to 68.9)	0 to 42.8 (0 to 68.9)	82° to 360° (66 to 290%)	R, AL, N, H, O, M, and Y to R Major	Strong to Weak to Screened	Strong to Weak to Screened	Strong to Weak to Screened	Strong to Weak to Screened	Large to NA	6 to 0
Martha’s Vineyard Landscape ^f	15.2 (24.4)	29.4 (47.3)	45.8 (73.7)	23.1 (37.1)	22.1 (35.5)	17.0 (27.3)	12.4 (19.9)	19.4 (31.2)	134° (109%)	R, AL, N, H, O, and M Major	Strong	Strong	Strong	Strong	Large	6 to 0
Nantucket Seascape (Beaches) ^b	17.4 (28.0)	19.4 (31.2)	32.0 (51.5)	29.1 (46.8)	47.2 (76.0)	35.2 (56.6)	34.6 (55.7)	15.5 (24.9)	104° (84%)	R, AL, N, H, O, and M Major	Strong	Strong	Strong	Strong	Large to NA	6 to 0
Nantucket Landscape ^f	17.6 (28.3)	19.6 (31.5)	32.2 (51.8)	29.3 (47.1)	47.4 (76.3)	35.4 (56.9)	34.8 (56.0)	15.7 (25.2)	104° (84%)	R, AL, N, H, O, and M Major	Strong	Strong	Strong	Strong	Large to NA	6 to 0

^a BSW = Bay State Wind, BW = Beacon Wind, VWN = Vineyard Wind Northeast, NEW = New England Wind, SFW = South Fork Wind, SW = Sunrise Wind, RW = Revolution Wind, and VW = Vineyard Wind

^b The most conservative onshore case involves the seaward edge of the beach nearest the projects. The seascape unit edge is 3.45 miles (kilometers) offshore (Massachusetts jurisdictional boundary).

^c Due to Earth’s curvature and known WTG heights, those WTGs beyond 42.8 miles (68.9 kilometers) would not be visible from ground level plus 5.5 feet (1.7 meters).

^d Noticeable elements: R = rotor, AL = aviation light, N = nacelle, H = hub, O = OSP, M = mid-tower light, Y = yellow tower base color.

^e WTGs and OSP Prominence (visibility): 0 = Not visible. 1 = Visible only after extended study; otherwise not visible. 2 = Visible when viewing in general direction of the wind farm; otherwise likely to be missed by casual observer. 3 = Visible after brief glance in general direction of the wind farm; unlikely to be missed by casual observer. 4 = Plainly visible; could not be missed by casual observer, but does not strongly attract visual attention or dominate view. 5 = Strongly attracts viewers’ attention to the wind farm; moderate to strong contrasts in form, line, color, or texture, luminance, or motion. 6 = Dominates view; strong contrasts in form, line, color, texture, luminance, or motion fill most of the horizontal FOV or vertical FOV (NAEP 2012).

^f The seaward edge between landscape and seascape varies. The most conservative case is 0.2-mile (0.3-kilometer) landward distance from seaward beach edge.

Table H-15. Other wind farms’ cumulative viewer experience wind farm distances, FOVs, noticeable elements, visual contrasts, scale of change, and prominence

Viewer ^a	Distance in miles (kilometers) ^d								FOV Degrees (% of 124°)	Noticeable Elements ^e & Impact Level	Visual Contrast, Scale of Change, and Prominence					
	BSW ^b	BW ^b	VWN ^b	NEW ^b	SFW ^b	SW ^b	RW ^b	VW ^b			Form	Line	Color	Texture	Scale	Prominence ^e
KOP-1-MV	14.9 (24.0)	23.2 (37.3)	39.7 (63.9)	25.9 (40.7)	36.6 (58.9)	27.3 (43.9)	25.1 (40.4)	14.8 (23.8)	114° (92%)	R, AL, N, H, O, and M Major	Strong	Strong	Strong	Strong	Large	6
KOP-2-N	19.7 (31.7)	20.5 (33.0)	31.9 (51.3)	30.9 (49.7)	49.7 (80.0)	38.1 (61,3)	37.1 (59.7)	16.9 (27.2)	96° (77%)	R, AL, N, H, O, and M Major	Strong	Strong	Strong	Strong	Large	6
KOP-22-N	17.4 (28.0)	19.4 (31.2)	32.0 (51.5)	29.1 (46.8)	47.2 (76.0)	35.2 (56.6)	34.6 (55.7)	15.5 (24.9)	104° (84%)	R, AL, N, H, O, and M Major	Strong	Strong	Strong	Strong	Large	6
KOP-6-N	27.2 (43.8)	26.2 (42.2)	32.6 (52.5)	33.7 (54.2)	57.9 (93.2)	45.9 (73.9)	45.4 (73.1)	23.0 (37.0)	89° (72%)	R, AL, N, H, O, and M Major	Strong	Strong	Strong	Strong	Large	6
KOP-12-N Day	19.1 (30.7)	19.7 (31.7)	31.2 (50.2)	27.6 (44.4)	49.4 (79.5)	37.6 (60.5)	37.0 (59.5)	16.2 (26.1)	99° (80%)	R, AL, N, H, O, and M Major	Strong	Strong to Weak to NA	Strong to Weak to NA	Strong to Weak to NA	Large	6
KOP-12-N Night	19.1 (30.7)	19.7 (31.7)	31.2 (50.2)	27.6 (44.4)	49.4 (79.5)	37.6 (60.5)	37.0 (59.5)	16.2 (26.1)	99° (80%)	AL Moderate ^e	Strong	Strong	Strong	Strong	Large	6
KOP-16-MV	15.0 (24.1)	29.2 (47.0)	45.6 (73.4)	22.9 (36.8)	21.9 (35.2)	16.8 (27.0)	13.4 (21.6)	19.2 (30.9)	134° (109%)	R, AL, N, H, O, and M Major	Strong to Weak to NA	Strong to Weak to NA	Strong to Weak to NA	Strong to Weak to NA	Large	6
KOP-16-N	18.2 (29.3)	19.4 (31.2)	31.5 (50.7)	29.5 (47.5)	48.7 (78.4)	36.5 (58.7)	35.5 (57.1)	15.7 (25.3)	101° (81%)	R, AL, N, H, O, and M Major	Strong to Weak	Strong	Strong	Strong	Large	6
KOP-19-MV	17.3 (27.8)	32.9 (52.9)	49.4 (79.5)	25.9 (41.7)	20.6 (33.1)	18.2 (29.3)	13.7 (22.0)	23.9 (38.5)	127° (102%)	R, AL, N, H, O, and M Major	Strong	Strong	Strong	Moderate	Large	6

^a KOP-1-MV Wasque Point, KOP-2-N Sanford Barn Overlook, KOP-22-N Madaket Beach at Sunset, KOP-6-N Tom Nevers Beach, KOP-12-N Cisco Beach, KOP-16-MV Squibnocket Beach, KOP-16-N Head of Plains, and KOP-19-MV Gay Head Lighthouse

^b BSW = Bay State Wind, BW = Beacon Wind, VWN = Vineyard Wind Northeast, NEW = New England Wind, SFW = South Fork Wind, SW = Sunrise Wind, RW = Revolution Wind, and VW = Vineyard Wind

^c Noticeable elements: R = rotor, AL = aviation light, N = nacelle, H = hub, O = OSP, M = mid-tower light, Y = yellow tower base color

^d Due to earth’s curvature and known WTG heights, those WTGs beyond 42.8 miles (68.9 kilometers) would not be visible from ground level plus 5.5 feet (1.7 meters).

^e WTGs and OSP (onshore) visibility: 0 = Not visible. 1 = Visible only after extended study; otherwise not visible. 2 = Visible when viewing in general direction of the wind farm; otherwise likely to be missed by casual observer. 3 = Visible after brief glance in general direction of the wind farm; unlikely to be missed by casual observer. 4 = Plainly visible; could not be missed by casual observer, but does not strongly attract visual attention or dominate view. 5 = Strongly attracts viewers’ attention to the wind farm; moderate to strong contrasts in form, line, color, or texture, luminance, or motion. 6 = Dominates view; strong contrasts in form, line, color, texture, luminance, or motion fill most of the horizontal FOV or vertical FOV (NAEP 2012).

Table H-16. SouthCoast Wind and other wind farms’ seascape, open ocean, and landscape units cumulative wind farm distances, FOVs, noticeable elements, visual contrasts, scale of change, and prominence

Character Unit	Distance in miles (kilometers) ^c									FOV Degrees (% of 124°)	Noticeable Elements ^d & Impact Level	Contrast, Scale of Change, and Prominence							
	BSW ^b	BW ^b	VWN ^b	SC ^b	NEW ^b	SFW ^b	SW ^b	RW ^b	VW ^b			Form	Line	Color	Texture	Scale	Prominence ^e	Alternatives C-1, C-2, E, F	Alternative D
Martha’s Vineyard Seascape (Beaches) ^a	15.0 (24.1)	29.2 (47.0)	45.6 (73.4)	37.2 (59.9)	22.9 (36.8)	21.9 (35.2)	16.8 (27.0)	12.2 (19.6)	19.2 (30.9)	134° (109%)	R, AL, N, H, O, M Major	Strong to Weak	Moderate to Weak	Strong to Weak	Moderate to Weak	Large	6	Same as Proposed Action	Same as Proposed Action
Open Ocean	0 to 42.8 (0 to 68.9)	0 to 42.8 (0 to 68.9)	0 to 42.8 (0 to 68.9)	0 to 42.8 (0 to 68.9)	0 to 42.8 (0 to 68.9)	0 to 42.8 (0 to 68.9)	0 to 42.8 (0 to 68.9)	0 to 42.8 (0 to 68.9)	0 to 42.8 (0 to 68.9)	82° to 360° (66to 290%)	R, AL, N, H, O, M, and Y Major	Strong	Strong	Strong	Strong	Large	6	Same as Proposed Action	Same as Proposed Action
Martha’s Vineyard Landscape ^f	15.2 (24.4)	29.4 (47.3)	45.8 (73.7)	37.2 (60.2)	23.1 (37.1)	22.1 (35.5)	17.0 (27.3)	12.4 (19.9)	19.4 (31.2)	134° (109%)	R, AL, N, H, O, M Major	Strong	Moderate	Strong	Moderate	Large	6	Same as Proposed Action	Same as Proposed Action
Nantucket Seascape (Beaches) ^a	17.4 (28.0)	19.4 (31.2)	32.0 (51.5)	24.3 (39.1)	29.1 (46.8)	47.2 (76.0)	35.2 (56.6)	34.6 (55.7)	15.5 (24.9)	104° (84%)	R, AL, N, H, O, M Major	Strong	Moderate	Strong	Moderate	Large	6	Same as Proposed Action	Same as Proposed Action
Nantucket Landscape ^f	17.6 (28.0)	19.6 (31.2)	32.2 (51.5)	24.5 (39.1)	29.3 (47.1)	47.4 (76.3)	35.4 (56.9)	34.8 (56.0)	15.7 (25.2)	104° (84%)	R, AL, N, H, O, M Major	Strong	Moderate	Strong	Moderate	Large	6	Same as Proposed Action	Same as Proposed Action

^a The most conservative onshore case involves the seaward edge of the beach nearest the projects. The seascape unit edge is 3.45 miles (kilometers) offshore, (Massachusetts jurisdictional boundary).

^b BSW = Bay State Wind, BW = Beacon Wind, VWN = Vineyard Wind Northeast, SC = SouthCoast Wind, NEW = New England Wind, SFW = South Fork Wind, SW = Sunrise Wind, RW = Revolution Wind, and VW = Vineyard Wind

^c Due to earth’s curvature and known WTG heights, those WTGs beyond 42.8 miles (68.9 kilometers) would not be visible from ground level plus 5.5 feet (1.7 meters).

^d Noticeable elements: R = rotor, AL = aviation light, N = nacelle, H = hub, O = OSP, M = mid-tower light, Y = yellow tower base color

^e WTGs and OSP (onshore) visibility: 0 = Not visible. 1 = Visible only after extended study; otherwise not visible. 2 = Visible when viewing in general direction of the wind farm; otherwise likely to be missed by casual observer. 3 = Visible after brief glance in general direction of the wind farm; unlikely to be missed by casual observer. 4 = Plainly visible; could not be missed by casual observer, but does not strongly attract visual attention or dominate view. 5 = Strongly attracts viewers’ attention to the wind farm; moderate to strong contrasts in form, line, color, or texture, luminance, or motion. 6 = Dominates view; strong contrasts in form, line, color, texture, luminance, or motion fill most of the horizontal FOV or vertical FOV (NAEP 2012).

^f The seaward edge between landscape and seascape varies. The most conservative case is 1.0-mile (1.6-kilometer) distance from seaward beach edge.

Table H-17. SouthCoast wind and other wind farms’ cumulative viewer experience wind farm distances, FOVs, noticeable elements, visual contrasts, scale of change, and prominence

Viewer ^a	Distance in miles (kilometers) ^c									FOV Degrees (% of 124°)	Noticeable Elements ^d & Impact Level	Contrast, Scale of Change, and Prominence							
	BSW ^b	BW ^b	VWN ^b	SC ^b	NEW ^b	SFW ^b	SW ^b	RW ^b	VW ^b			Form	Line	Color	Texture	Scale	Prominence ^e	Alternatives C-1, C-2, E, F	Alternative D
KOP-1-MV	14.9 (24.0)	23.2 (37.3)	39.7 (63.9)	30.9 (49.7)	25.9 (40.7)	36.6 (58.9)	27.3 (43.9)	25.1 (40.4)	14.8 (23.8)	114° (92%)	R, AL, N, H, O, and M Major	Strong	Moderate	Strong	Moderate	Large	6	Same as Proposed Action	Same as Proposed Action
KOP-2-N	19.7 (31.7)	20.5 (33.0)	31.9 (51.3)	24.4 (42.6)	30.9 (49.7)	49.7 (80.0)	38.1 (61,3)	37.1 (59.7)	16.9 (27.2)	96° (77%)	R, AL, N, H, O, and M Major	Strong	Moderate	Strong	Moderate	Large	6	Same as Proposed Action	Same as Proposed Action
KOP-22-N	17.4 (28.0)	19.4 (31.2)	32.0 (51.5)	24.3 (39.1)	29.1 (46.8)	47.2 (76.0)	35.2 (56.6)	34.6 (55.7)	15.5 (24.9)	104° (84%)	R, AL, N, H, O, and M Major	Strong	Moderate	Strong	Moderate	Large	6	Same as Proposed Action	Same as Proposed Action
KOP-6-N	27.2 (43.8)	26.2 (42.2)	32.6 (52.5)	26.5 (42.6)	33.7 (54.2)	57.9 (93.2)	45.9 (73.9)	45.4 (73.1)	23.0 (37.0)	89° (72%)	R, AL, N, H, O, and M Major	Strong	Moderate	Strong	Moderate	Large	6	Same as Proposed Action	Same as Proposed Action
KOP-12-N Day	19.1 (30.7)	19.7 (31.7)	31.2 (50.2)	23.5 (37.8)	27.6 (44.4)	49.4 (79.5)	37.6 (60.5)	37.0 (59.5)	16.2 (26.1)	99° (80%)	R, AL, N, H, O, and M Major	Strong	Moderate	Strong	Moderate	Large	6	Same as Proposed Action	Same as Proposed Action

Viewer ^a	Distance in miles (kilometers) ^c									FOV Degrees (% of 124°)	Noticeable Elements ^d & Impact Level	Contrast, Scale of Change, and Prominence							
	BSW ^b	BW ^b	VWN ^b	SC ^b	NEW ^b	SFW ^b	SW ^b	RW ^b	VW ^b			Form	Line	Color	Texture	Scale	Prominence ^e	Alternatives C-1, C-2, E, F	Alternative D
KOP-12-N Night	19.1 (30.7)	19.7 (31.7)	31.2 (50.2)	23.5 (37.8)	27.6 (44.4)	49.4 (79.5)	37.6 (60.5)	37.0 (59.5)	16.2 (26.1)	99° (80%)	AL Major	Moderate	Moderate	Moderate	Moderate	Large	6	Same as Proposed Action	Same as Proposed Action
KOP-16- MV	15.0 (24.1)	29.2 (47.0)	45.6 (73.4)	37.2 (59.9)	22.9 (36.8)	21.9 (35.2)	16.8 (27.0)	13.4 (21.6)	19.2 (30.9)	134° (109%)	R, AL, N, H, O, and M Major	Strong	Moderate	Strong	Moderate	Large	6	Same as Proposed Action	Same as Proposed Action
KOP-16-N	18.2 (29.3)	19.4 (31.2)	31.5 (50.7)	23.8 (38.3)	29.5 (47.5)	48.7 (78.4)	36.5 (58.7)	35.5 (57.1)	15.7 (25.3)	101° (81%)	R, AL, N, H, O, and M Major	Strong	Moderate	Strong	Moderate	Large	6	Same as Proposed Action	Same as Proposed Action
KOP-19- MV	17.3 (27.8)	32.9 (52.9)	49.4 (79.5)	41.2 (66.3)	25.9 (41.7)	20.6 (33.1)	18.2 (29.3)	13.7 (22.0)	23.9 (38.5)	127° (102%)	R, AL, N, H, O, and M Major	Strong	Moderate	Strong	Moderate	Large	6	Same as Proposed Action	Same as Proposed Action

^a KOP-1-MV Wasque Point, KOP-2-N Sanford Barn Overlook, KOP-22-N Madaket Beach at Sunset, KOP-6-N Tom Nevers Beach, KOP-12-N Cisco Beach, KOP-16-MV Squibnocket Beach, KOP-16-N Head of Plains, and KOP-19-MV Gay Head Lighthouse.

^b BSW = Bay State Wind, BW = Beacon Wind, VWN = Vineyard Wind Northeast, SC = SouthCoast Wind, NEW = New England Wind, SFW = South Fork Wind, SW = Sunrise Wind, RW = Revolution Wind, and VW = Vineyard Wind.

^c Due to earth’s curvature and known WTG heights, those WTGs beyond 42.8 miles (68.9 kilometers) would not be visible from ground level plus 5.5 feet (1.7 meters).

^d Noticeable elements: R = rotor, AL = aviation light, N = nacelle, H = hub, O = OSP, M = mid-tower light, Y = yellow tower base color.

^e WTGs and OSP (onshore) visibility: 0 = Not visible. 1 = Visible only after extended study; otherwise not visible. 2 = Visible when viewing in general direction of the wind farm; otherwise likely to be missed by casual observer. 3 = Visible after brief glance in general direction of the wind farm; unlikely to be missed by casual observer. 4 = Plainly visible; could not be missed by casual observer, but does not strongly attract visual attention or dominate view. 5 = Strongly attracts viewers’ attention to the wind farm; moderate to strong contrasts in form, line, color, or texture, luminance, or motion. 6 = Dominates view; strong contrasts in form, line, color, texture, luminance, or motion fill most of the horizontal FOV or vertical FOV (NAEP 2012).

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H.3.2 Alternative C

Under Alternative C, the export cable route to Brayton Point would be rerouted onshore and follow one of two alternative corridors to avoid sensitive fish habitat in the Sakonnet River. Installation of these onshore export cables and infrastructure would result in localized, temporary visual impacts near construction sites due to land disturbance for vegetation clearing, site grading or trenching, and construction staging. These impacts would last through construction and continue until disturbed areas are restored.

H.3.3 Alternative D

Table H-18 and Table H-19 list Alternative D wind farm width-, height-, and distance-related occupation of views from the nearest shoreline area. These results indicate slight changes to the FOV results compared to the Proposed Action (Table H-4 and Table H-5).

Table H-18 Horizontal FOV occupied by Alternative D

Noticeable Element	Width miles (kilometers)	Distance miles (kilometers)	Horizontal FOV	Human FOV	Percent of FOV
D WTGs	12.3 (19.8)	23.6 (37.9)	26.2°	124°	21%

Table H-19 Vertical FOV occupied by Alternative D

Noticeable Element	Height feet (m) MLLW	Distance miles (kilometers)	Visible Height ^a feet (m)	Vertical FOV	Human FOV	Percent of FOV
D Rotor Blade Tip	1,066.3 (325.0)	23.6 (37.9)	779 (237)	0.3°	55°	0.5%

¹ Based on intervening EC and clear-day conditions.

M = meters; km = kilometers.

H.3.4 Alternatives E and F

Installation of different foundation types under Alternatives E-1, E-2, and E-3 would not change the most prominent visible aspects of WTGs and OSPs (e.g., blade height, hub height) and, therefore, would have no meaningful difference in impacts on seascape, open ocean, and landscape character units and viewer experience compared to the Proposed Action. The reduction in the number of cables installed along the Falmouth offshore export cable route under Alternative F may reduce the number of vessel trips required to install the cables, but this slight reduction in vessel activity would have no meaningful difference in impacts compared to the Proposed Action.

H.4 Seascape, Open Ocean, and Landscape Impact Assessment Summary

The SLIA considers the impacts on the physical elements and features that make up a seascape, open ocean, or landscape and the aesthetic, perceptual, and experiential aspects of the seascape, open ocean, or landscape that contribute to its distinctive character. These impacts affect the feel, character,

or sense of place of an area of seascape, open ocean, or landscape. Table H-20 summarizes the effects of the character of the offshore and onshore components of the Project with the aspects that contribute to the distinctive character of the seascape, open ocean, and landscape areas from which the Project would be visible (BOEM 2021).

H.5 Visual Impact Assessment Summary

The VIA considers the characteristics of the view receptor, characteristics of the view toward the Project facilities, and the experiential impacts of the Projects. Table H-21 summarizes the viewer sensitivity, view receptor susceptibility, view value, and summary of the measures of effects from the visible character and magnitude of the offshore and onshore components of the Project (BOEM 2021).

Table H-20. Seascape character, open ocean character, landscape character and impact levels

Character Unit	Affected Environment										Proposed Action									Impact Levels				
	Unit Susceptibility			Unit Value			Project Visibility				Character Key Feature Change ^a			Character Key Element Change ^b			Character Key Quality Change ^c			Proposed Action				Alternatives C, D, E, and F
	High	Medium	Low	High	Medium	Low	Dominant	Substantial	Low	Unseen	High	Medium	Low	High	Medium	Low	High	Medium	Low	Major	Moderate	Minor	Negligible	Impact Level
Open Ocean	X			X			X				X			X			X			X				Same as Proposed Action
Martha’s Vineyard Seascape Ocean				X					X				X		X			X			X			Same as Proposed Action
Martha’s Vineyard Seascape Beach				X					X			X			X			X				X		Same as Proposed Action
Nantucket Seascape Ocean	X			X				X				X			X		X			X				Same as Proposed Action
Nantucket Seascape Beach	X			X				X				X			X		X			X				Same as Proposed Action
Martha’s Vineyard Landscape		X		X					X				X			X			X			X		Same as Proposed Action
Nantucket Landscape	X			X				X				X			X			X				X		Same as Proposed Action

^a Key Features = The distinctive visual attributes of the seascape, open ocean, or landscape character area.
^b Key Elements = The essential visual components of the seascape, open ocean, or landscape character area.
^c Key Quality = The main value factor of the seascape, open ocean, or landscape character area.

Table H-21. Viewer sensitivity, receptor susceptibility, view value, viewer experience, and impact levels

KOP ^a	Affected Environment									Viewer Experience				Impact Levels				
	Viewer Sensitivity			Receptor Susceptibility			View Value			Distance-Noticeable Elements-HFOV-VFOV-Contrast-Scale-Prominence Effects				Proposed Action				Alternatives C, D, E, and F
	High	Medium	Low	High	Medium	Low	High	Medium	Low	Dominant	Substantial	Low	Unseen	Major	Moderate	Minor	Negligible	Impact Levels
KOP-1-O	X			X			X			X				X				Same as Proposed Action
KOP-2_O	X			X			X			X				X				Same as Proposed Action
KOP-1-MV	X			X			X					X				X		Same as Proposed Action
KOP-2-MV	X			X			X					X				X		Same as Proposed Action
KOP-3-MV	X			X			X					X				X		Same as Proposed Action
KOP-4-MV	X			X			X					X				X		Same as Proposed Action
KOP-6-MV	X			X			X					X				X		Same as Proposed Action
KOP-9-MV	X			X			X					X				X		Same as Proposed Action
KOP-16-MV	X			X			X					X				X		Same as Proposed Action
KOP-19-MV ^b	X			X			X					X				X		Same as Proposed Action
KOP-2-N	X			X			X				X				X			Same as Proposed Action
KOP-3-N	X			X			X				X				X			Same as Proposed Action
KOP-6-N	X			X			X				X				X			Same as Proposed Action
KOP-8-N (Day)	X			X			X				X				X			Same as Proposed Action

KOP ^a	Affected Environment									Viewer Experience				Impact Levels				
	Viewer Sensitivity			Receptor Susceptibility			View Value			Distance-Noticeable Elements-HFOV-VFOV-Contrast-Scale-Prominence Effects				Proposed Action				Alternatives C, D, E, and F
	High	Medium	Low	High	Medium	Low	High	Medium	Low	Dominant	Substantial	Low	Unseen	Major	Moderate	Minor	Negligible	Impact Levels
KOP-8-N (Night)	X			X			X				X				X			Same as Proposed Action
KOP-10-N	X			X			X				X				X			Same as Proposed Action
KOP-11-N	X			X			X				X				X			Same as Proposed Action
KOP-12-N (Day)	X			X			X				X				X			Same as Proposed Action
KOP-12-N (Night)	X			X			X				X				X			Same as Proposed Action
KOP-13-N	X			X			X				X				X			Same as Proposed Action
KOP-16-N	X			X			X				X				X			Same as Proposed Action
KOP-17-N	X			X			X				X				X			Same as Proposed Action
KOP-18-N	X			X			X				X				X			Same as Proposed Action
KOP-20-N	X			X			X				X				X			Same as Proposed Action
KOP-21-N	X			X			X					X				X		Same as Proposed Action
KOP-22-N	X			X			X				X				X			Same as Proposed Action
KOP-1-BP	X			X			X						X				X	Same as Proposed Action
KOP-3-BP	X			X			X						X				X	Same as Proposed Action
KOP-4-BP	X			X			X						X				X	Same as Proposed Action
KOP-44-C	X			X			X			X				X				Same as Proposed Action
KOP-46-C	X			X			X			X				X				Same as Proposed Action
KOP-47-C	X			X			X			X				X				Same as Proposed Action
KOP-49-C	X			X			X				X				X			Same as Proposed Action

HFOV = horizontal field of view; VFOV = vertical field of view

^a KOP-1-MV = Wasque Point. KOP-2-MV = Wasque Point Reservation. KOP-3-MV = Wasque Avenue, KOP-4-MV = South Beach, KOP-6-MV = Long Point Beach, KOP-9-MV = 322 South Road, KOP-16-MV = Squibnocket Beach, KOP-19-MV Gay Head Lighthouse, KOP-2-N = Sanford Farm Barn Overlook, KOP-3-N = Madaket Beach, KOP-6-N = Tom Nevers Beach, KOP-8-N = Tom Nevers Field, KOP-10-N = Nobadeer Beach, KOP-11-N = Miacomet Beach and Pond, KOP-12-N = Cisco Beach, KOP-13-N = Hummock Pond Road Bike Path, KOP-16-N = Head of Plains, KOP-17-N Bartlett’s Farm, KOP-18-N = Ladies Beach, KOP-20-N = Madequecham 1, KOP-21-N Sankaty Head Lighthouse, KOP-22-N = Madaket Beach at Sunset, KOP-1-O Recreational Fishing, Pleasure, and Tour Boat Area, KOP-2-O Commercial and Cruise Ship Shipping Lanes, KOP-1-BP = Brayton Point Beach, KOP-3-BP = Sycamore Street, KOP-4-BP = Route 103 at Anthony Bridge, KOP-44-C = Oak Grove Cemetery, KOP-46-C = Goodwill Park, KOP-47-C = Lawrence Lynch Site Road - Gifford Street Substation Road, and KOP-49-C = Two Ponds

^b Elevated observation deck or lighthouse.

H.6 References

Bislins, Walter. 2022. Advanced Earth Curvature Calculator. Available:

<http://walter.bislins.ch/bloge/index.asp?page=Advanced+Earth+Curvature+Calculator>.

Bureau of Ocean Energy Management (BOEM). 2021. Assessment of Seascape, Landscape, and Visual Impacts of Offshore Wind Energy Developments on the Outer Continental Shelf of the United States. OCS Study BOEM 2021-032. April.

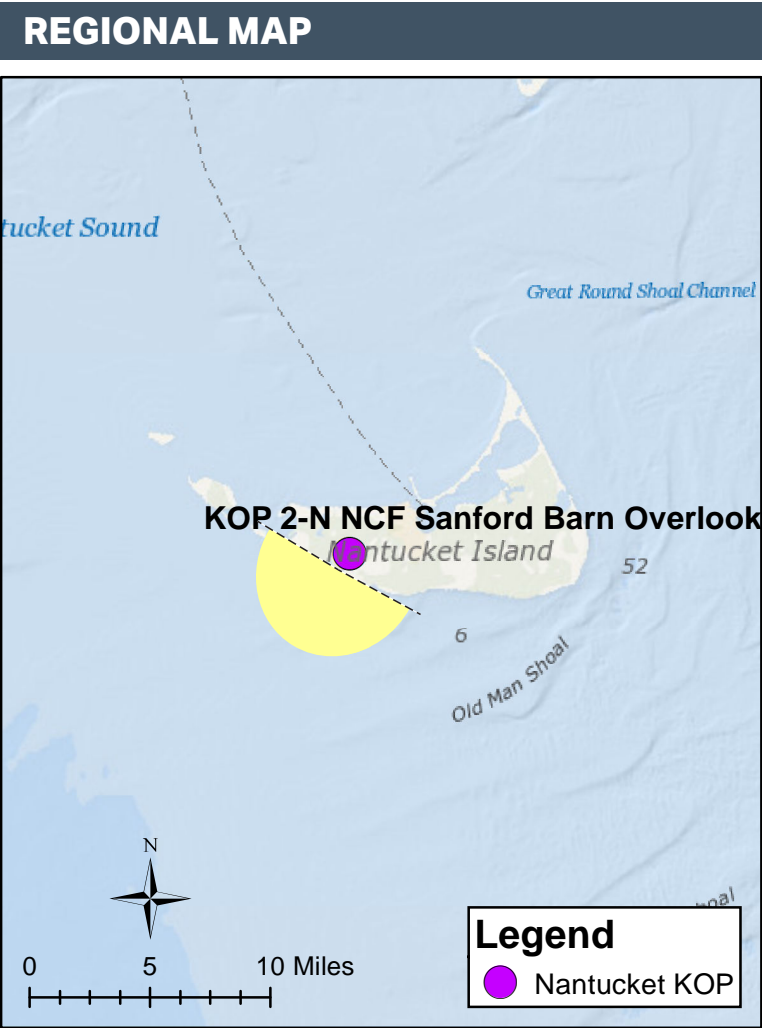
National Association of Environmental Professionals (NAEP). 2012. Offshore Wind Turbine Visibility and Visual Impact Thresholds. Available: https://blmwyomingvisual.anl.gov/docs/EnvPractice_Offshore%20Wind%20Turbine%20Visibility%20and%20Visual%20Impact%20Threshold%20Distances.pdf.

SouthCoast Wind Energy LLC (SouthCoast Wind). 2024. SouthCoast Wind Construction and Operations Plan. Available: <https://www.boem.gov/renewable-energy/state-activities/southcoast-wind>.

Attachment H-1: SouthCoast Wind Cumulative Visual Simulations

PANORAMIC PHOTOGRAPH - EXISTING CONDITIONS

1



MATCH LINES define visual simulation detail areas

- A-B is shown on pages 2-3
- AA-AB is shown on page 4
- BB-BC is shown on page 5
- CC-CD is shown on page 6

PROJECT VIEW

Horizontal Field of View: 182°	Furthest Visible WTG: 62 mi / 100 km
Vertical Field of View: 40°	Potential Number of Structures Visible: 237
Nearest WTG: 17 mi / 27 km	Potential Number of Structures Not Visible: 212

PHOTOGRAPH AND SITE

Time of photograph: 10:54AM	Viewing direction: South (230°)
Date of photograph: 6-26-20	Latitude: 41.265608°N
L/SCA: Ocean beach	Longitude: 70.150001°W
	Lighting Direction: Backlit diffused

ENVIRONMENT

Temperature: 68° F
Humidity: 81%
Wind Dir & Speed: S 12 mph
Weather Condition: Hazy

CAMERA

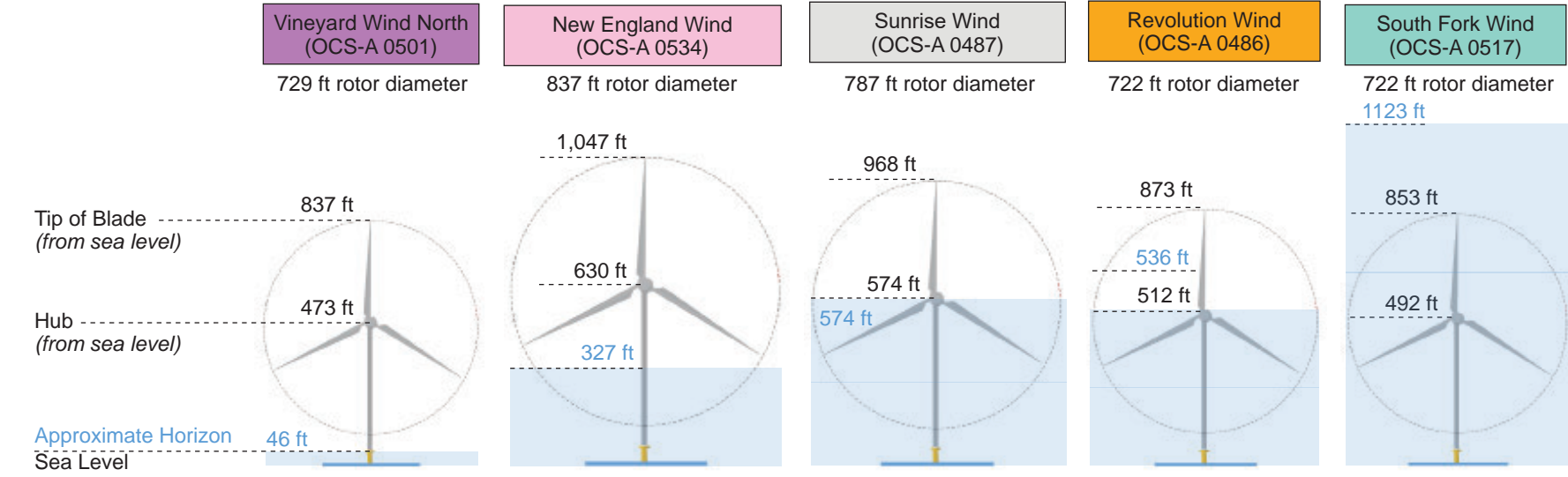
Camera Elevation: 50 ft /15.2 m
Nikon D4
Nikon 50mm
ISO: 100
Fstop: f/7.1
Shutter: 1/1250 sec
Exposure bias: -0.7 step

SIMULATED CONDITIONS

2



VISIBILTY OF CLOSEST TURBINES



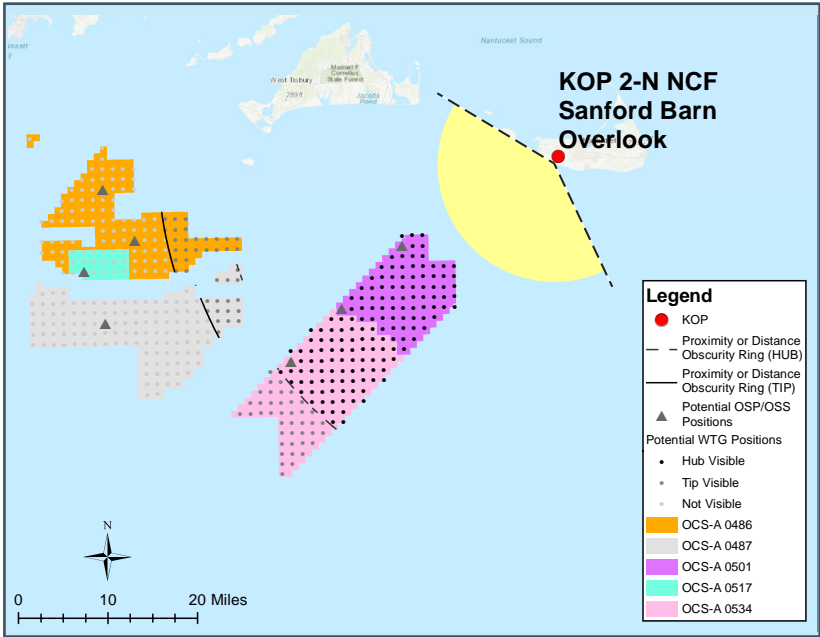
Year Forecasted for Development	2023	2024 Phase II 2026	2025	2023	2023
Number of Structures in Lease Area	77	120	131	103	18
Number of Structures within View of KOP	77	120	16	24	0
Distance to Closest Structure	17 mi (27 km)	31 mi (50 km)	38 mi (61 km)	37 mi (60 km)	50 mi (80 km)
Distance to Furthest Structure	30 mi (48 km)	47 mi (76 km)	62 mi (100 km)	59 mi (95 km)	56 mi (90 km)

SIMULATED CONDITIONS

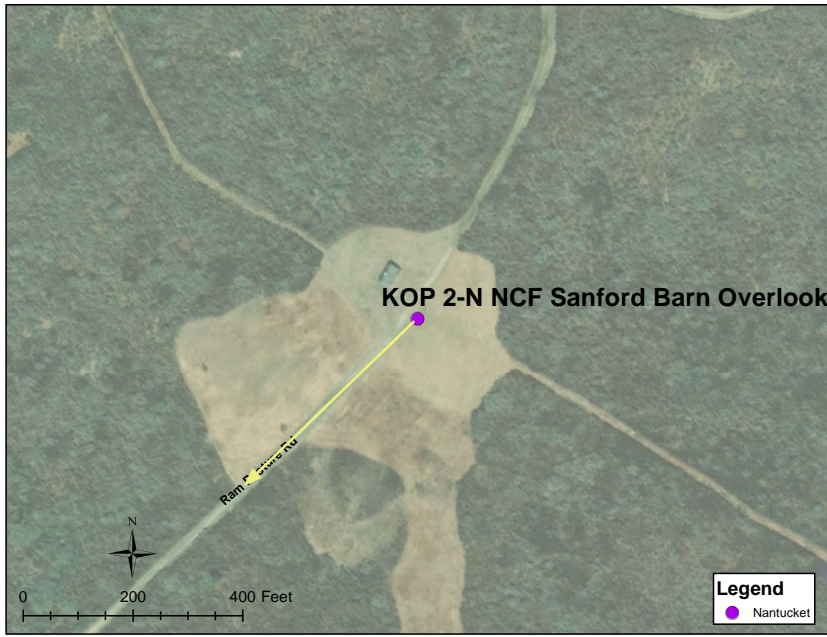
3



REGIONAL MAP



SITE MAP



PROJECT VIEW

Horizontal Field of View: 124°	Furthest Visible WTG: 62 mi / 100 km
Vertical Field of View: 40°	Potential Number of Structures Visible: 237
Nearest WTG: 17 mi / 27 km	Potential Number of Structures Not Visible: 212

PHOTOGRAPH AND SITE

Time of photograph: 10:54AM	Viewing direction: South (194°)
Date of photograph: 6-26-20	Latitude: 41.265608°N
L/SCA: Ocean beach	Longitude: 70.150001°W
	Lighting Direction: Backlit diffused

ENVIRONMENT

Temperature: 68° F
Humidity: 81%
Wind Dir & Speed: S 12 mph
Weather Condition: Hazy

CAMERA

Camera Elevation: 50 ft / 15.2 m
Nikon D4
Nikon 50mm
ISO: 100
Fstop: f/7.1
Shutter: 1/1250 sec
Exposure bias: -0.7 step



MATCH
LINE A

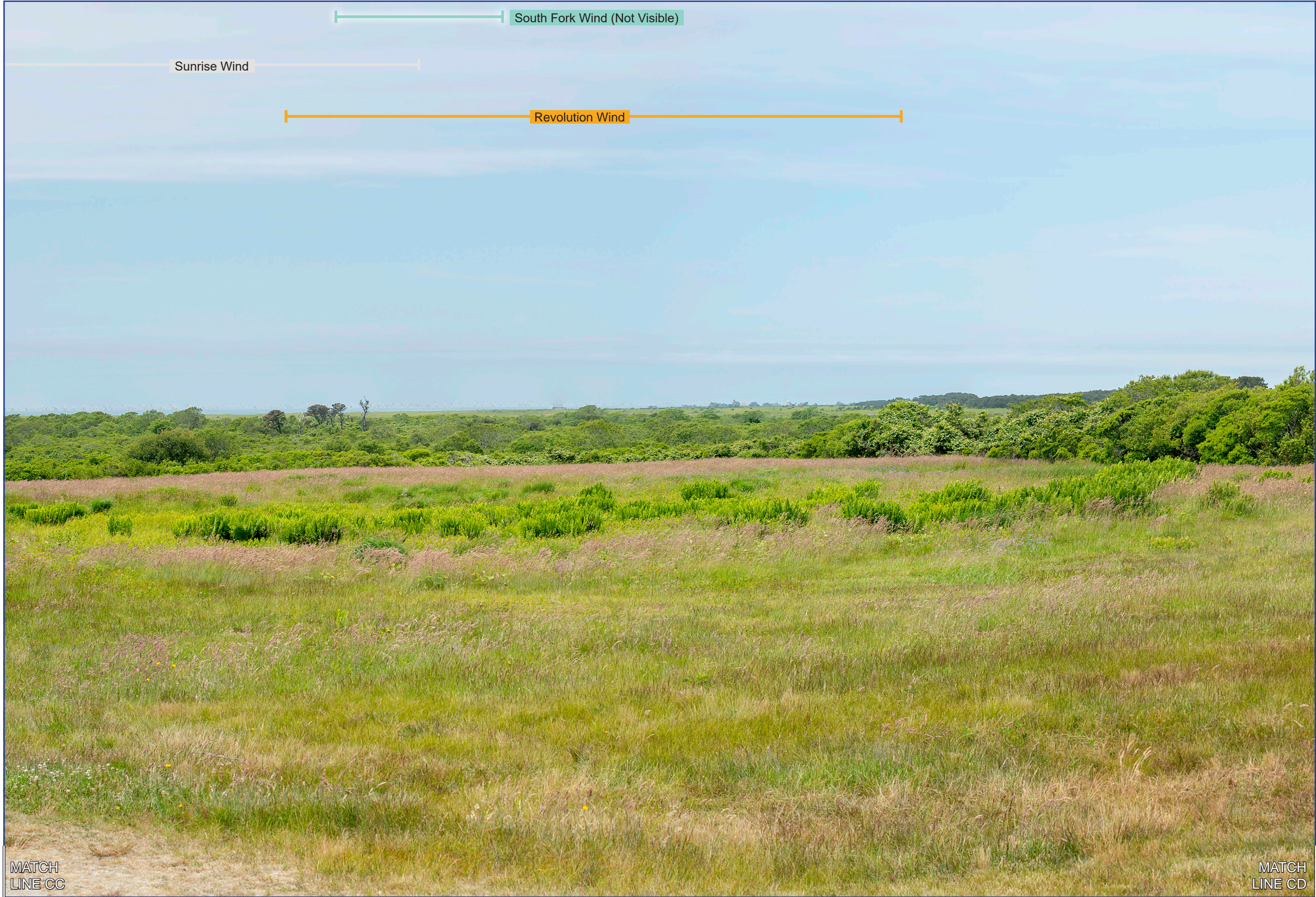
MATCH
LINE AA

MATCH
LINE AB

MATCH
LINE BB



The page should viewed at 11" x 17" approximately 15" from viewer's eyes .



MATCH
LINE BC

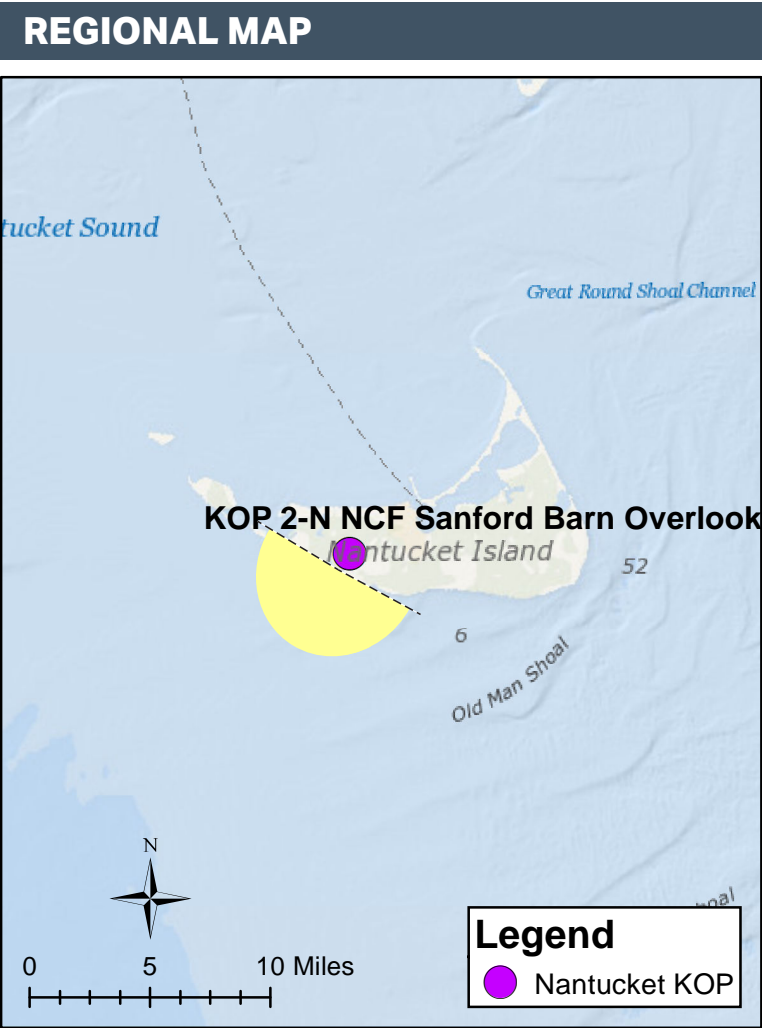
MATCH
LINE CC

MATCH
LINE CD

MATCH
LINE B

PANORAMIC PHOTOGRAPH - EXISTING CONDITIONS

1



MATCH LINES define visual simulation detail areas

A-B is shown on pages 2-3
AA-AB is shown on page 4
BB-BC is shown on page 5
CC-CD is shown on page 6

PROJECT VIEW

Horizontal Field of View: 182°	Furthest Visible WTG: 62 mi / 100 km
Vertical Field of View: 40°	Potential Number of Structures Visible: 379
Nearest WTG: 17 mi / 27 km	Potential Number of Structures Not Visible: 219

PHOTOGRAPH AND SITE

Time of photograph: 10:54AM	Viewing direction: South (230°)
Date of photograph: 6-26-20	Latitude: 41.265608°N
L/SCA: Ocean beach	Longitude: 70.150001°W
	Lighting Direction: Backlit diffused

ENVIRONMENT

Temperature: 68° F
Humidity: 81%
Wind Dir & Speed: S 12 mph
Weather Condition: Hazy

CAMERA

Camera Elevation: 50 ft /15.2 m
Nikon D4
Nikon 50mm
ISO: 100
Fstop: f/7.1
Shutter: 1/1250 sec
Exposure bias: -0.7 step

SIMULATED CONDITIONS

2

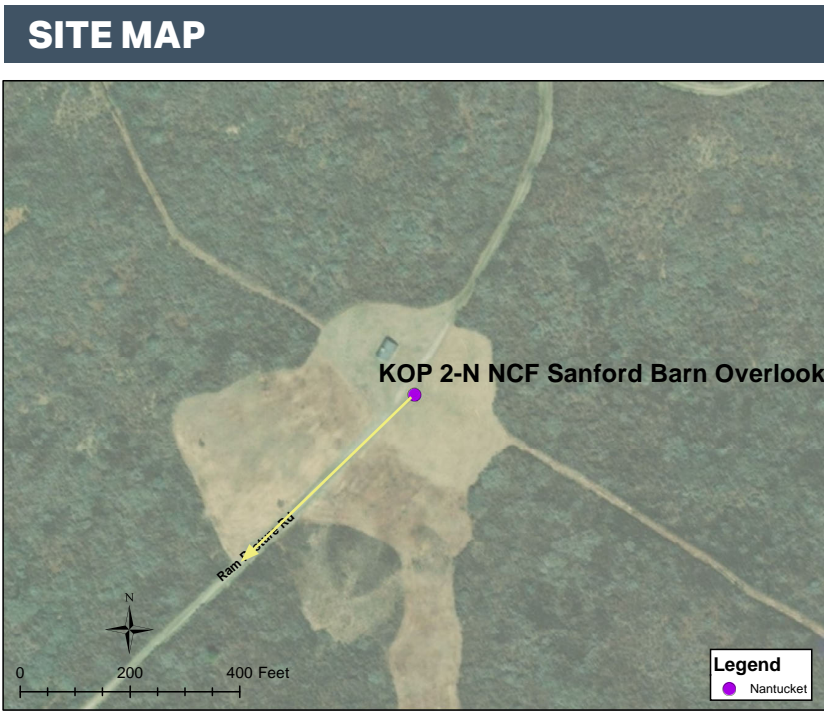
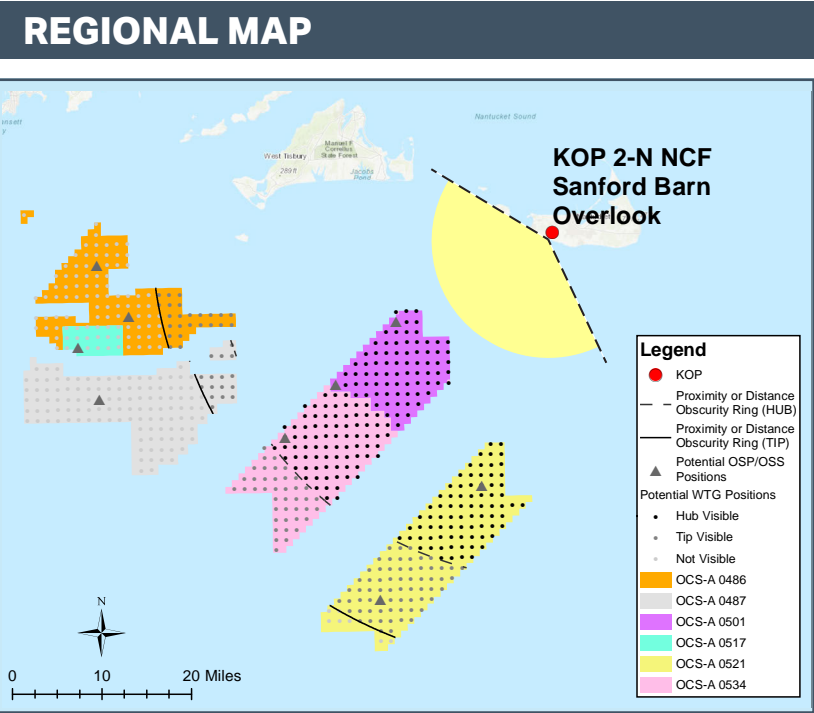


VISIBILTY OF CLOSEST TURBINES

	Mayflower Wind (OCS-A 0521)	Vineyard Wind North (OCS-A 0501)	New England Wind (OCS-A 0534)	Sunrise Wind (OCS-A 0487)	Revolution Wind (OCS-A 0486)	South Fork Wind (OCS-A 0517)	
	919 ft rotor diameter	729 ft rotor diameter	837 ft rotor diameter	787 ft rotor diameter	722 ft rotor diameter	722 ft rotor diameter	
Tip of Blade (from sea level)	1,066 ft	837 ft	1,047 ft	968 ft	873 ft	1123 ft 853 ft	
Hub (from sea level)	605 ft	473 ft	630 ft	574 ft	536 ft 512 ft	492 ft	
Approximate Horizon	165 ft	46 ft	327 ft	574 ft			
Sea Level							
Year Forecasted for Development	2025	2023	2024 Phase II 2026	2025	2023	2023	
Number of Structures in Lease Area	149	77	120	131	103	18	
Number of Structures within View of KOP	142	77	120	16	24	0	
Distance to Closest Structure	24 mi (39 km)	17 mi (27 km)	31 mi (50 km)	38 mi (61 km)	37 mi (60 km)	50 mi (80 km)	
Distance to Furthest Structure	49 mi (79 km)	30 mi (48 km)	47 mi (76 km)	62 mi (100 km)	59 mi (95 km)	56 mi (90 km)	

SIMULATED CONDITIONS

3



PROJECT VIEW

Horizontal Field of View: 124°	Furthest Visible WTG: 62 mi / 100 km
Vertical Field of View: 40°	Potential Number of Structures Visible: 379
Nearest WTG: 17 mi / 27 km	Potential Number of Structures Not Visible: 219

ENVIRONMENT

Temperature: 68° F
Humidity: 81%
Wind Dir & Speed: S 12 mph
Weather Condition: Hazy

PHOTOGRAPH AND SITE

Time of photograph: 10:54AM	Viewing direction: South (194°)
Date of photograph: 6-26-20	Latitude: 41.265608°N
L/SCA: Ocean beach	Longitude: 70.150001°W
	Lighting Direction: Backlit diffused

CAMERA

Camera Elevation: 50 ft / 15.2 m
Nikon D4
Nikon 50mm
ISO: 100
Fstop: f/7.1
Shutter: 1/1250 sec
Exposure bias: -0.7 step



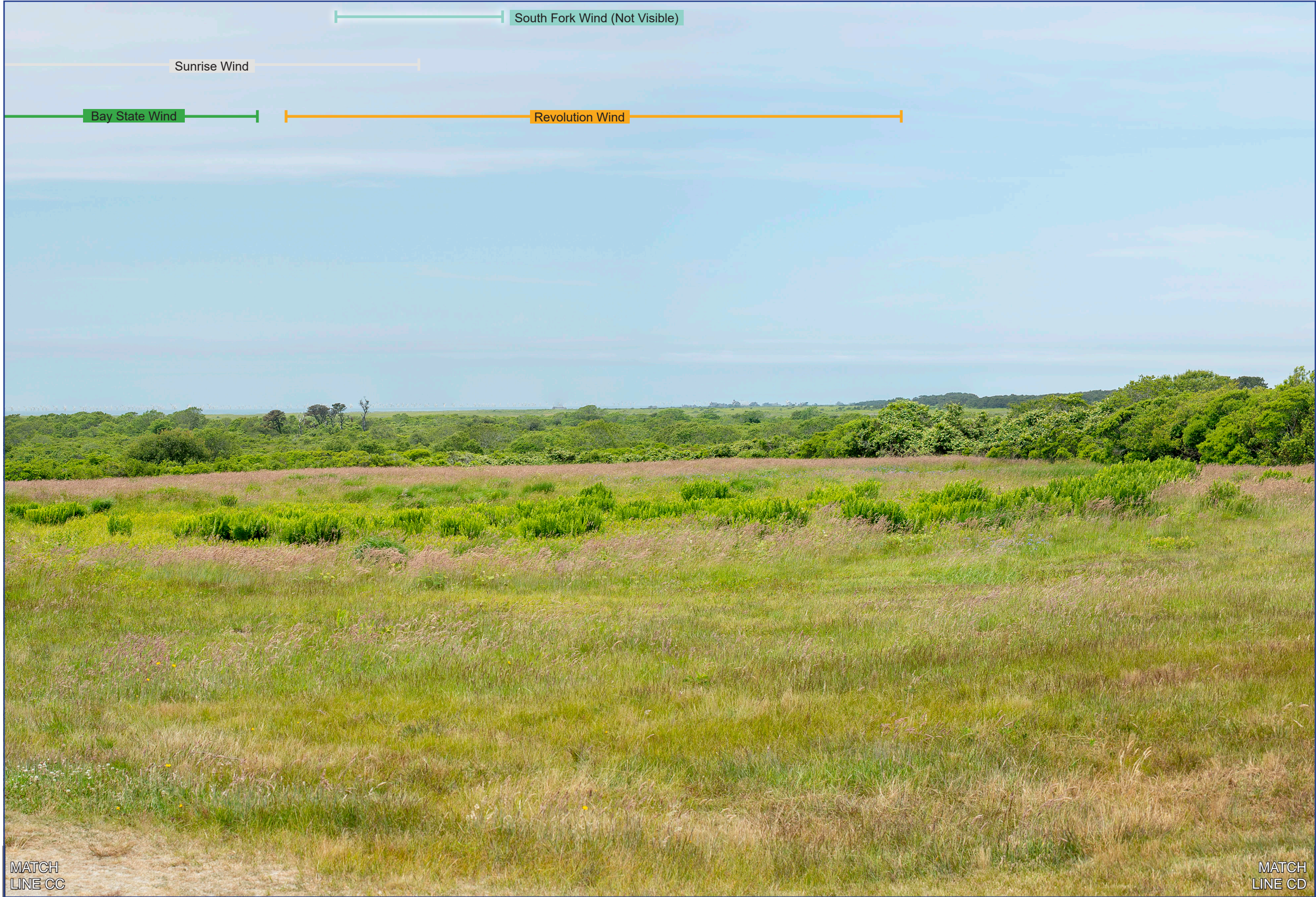
MATCH
LINE A

MATCH
LINE AB

MATCH
LINE BB



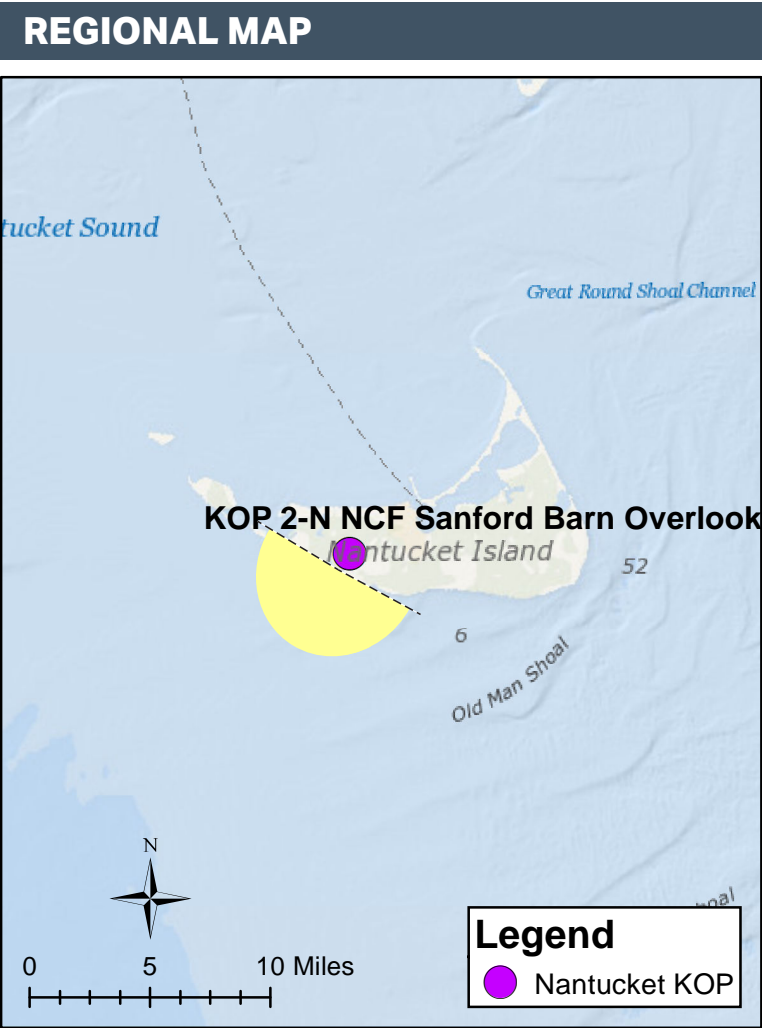
The page should viewed at 11" x 17" approximately 15" from viewer's eyes .



The page should viewed at 11" x 17" approximately 15" from viewer's eyes .

PANORAMIC PHOTOGRAPH - EXISTING CONDITIONS

1



MATCH LINES define visual simulation detail areas

A-B is shown on pages 2-3
AA-AB is shown on page 4
BB-BC is shown on page 5
CC-CD is shown on page 6

PROJECT VIEW

Horizontal Field of View: 182°	Furthest Visible WTG: 49 mi / 79 km
Vertical Field of View: 40°	Potential Number of Structures Visible: 392
Nearest WTG: 20 mi / 33 km	Potential Number of Structures Not Visible: 73

PHOTOGRAPH AND SITE

Time of photograph: 10:54AM	Viewing direction: South (230°)
Date of photograph: 6-26-20	Latitude: 41.265608°N
L/SCA: Ocean beach	Longitude: 70.150001°W
	Lighting Direction: Backlit diffused

ENVIRONMENT

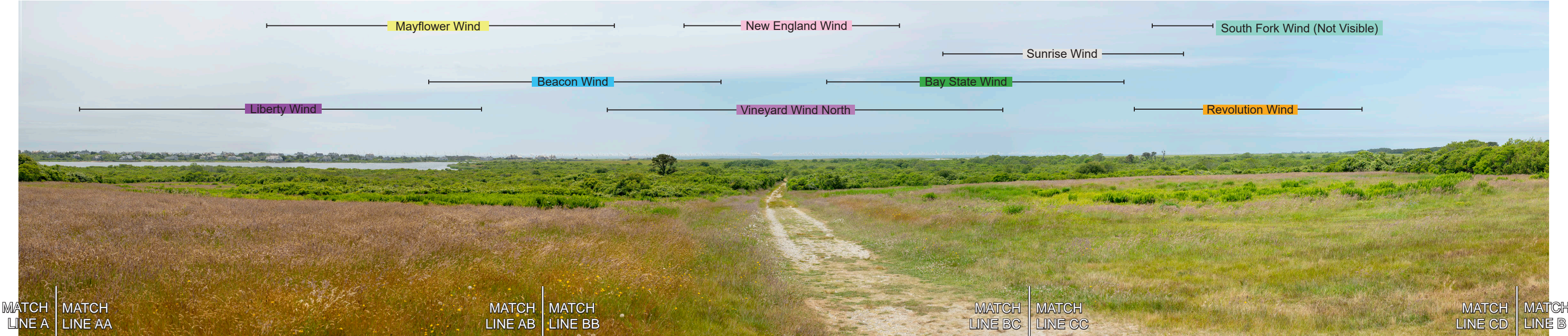
Temperature: 68° F
Humidity: 81%
Wind Dir & Speed: S 12 mph
Weather Condition: Hazy

CAMERA

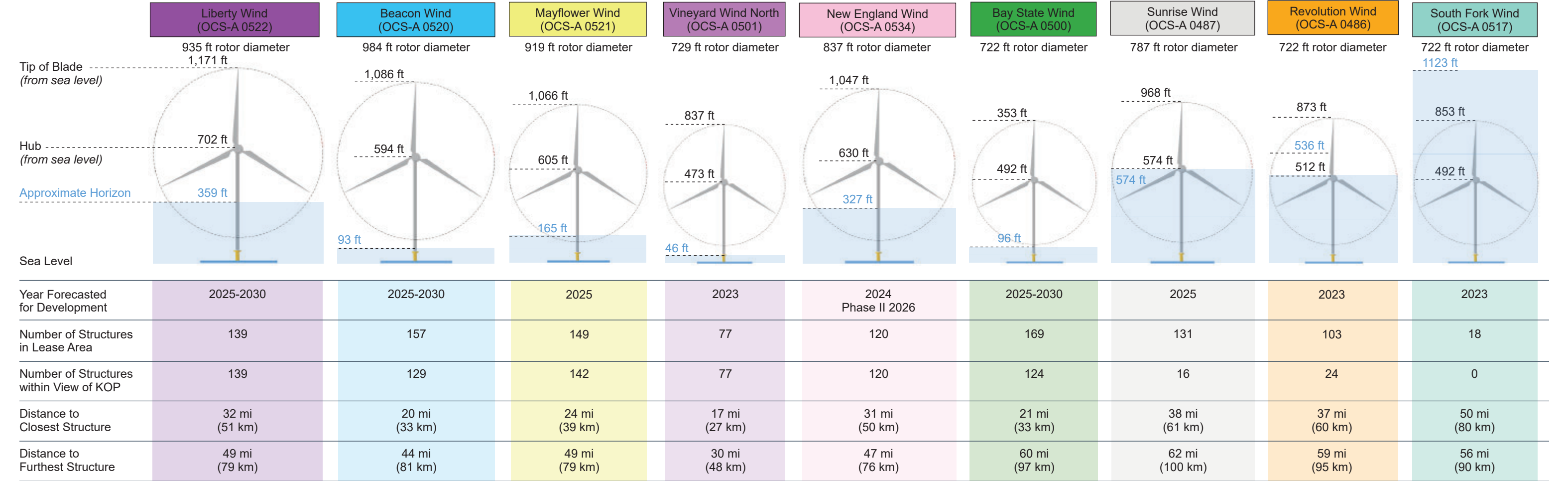
Camera Elevation: 50 ft /15.2 m
Nikon D4
Nikon 50mm
ISO: 100
Fstop: f/7.1
Shutter: 1/1250 sec
Exposure bias: -0.7 step

SIMULATED CONDITIONS

2

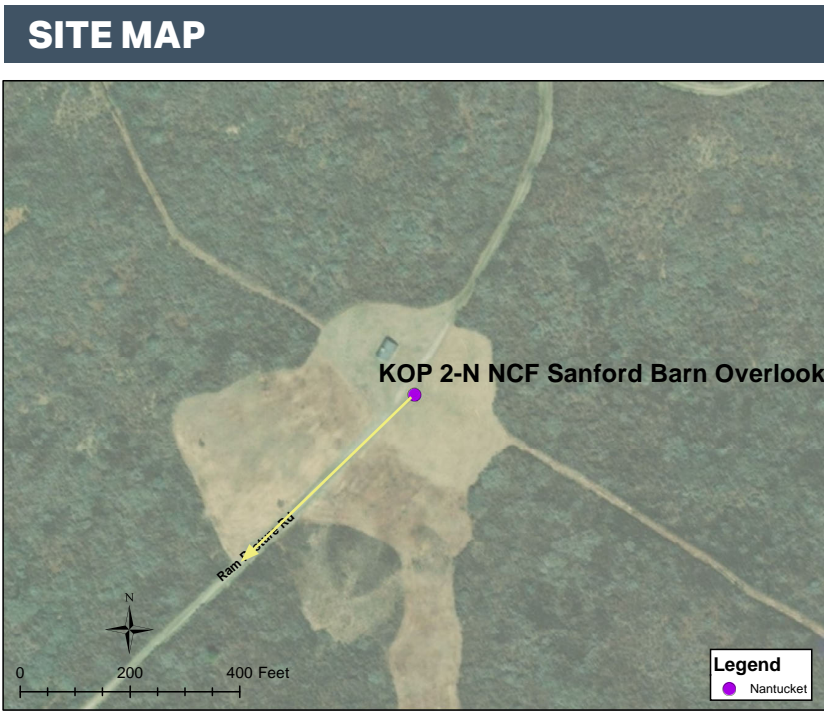
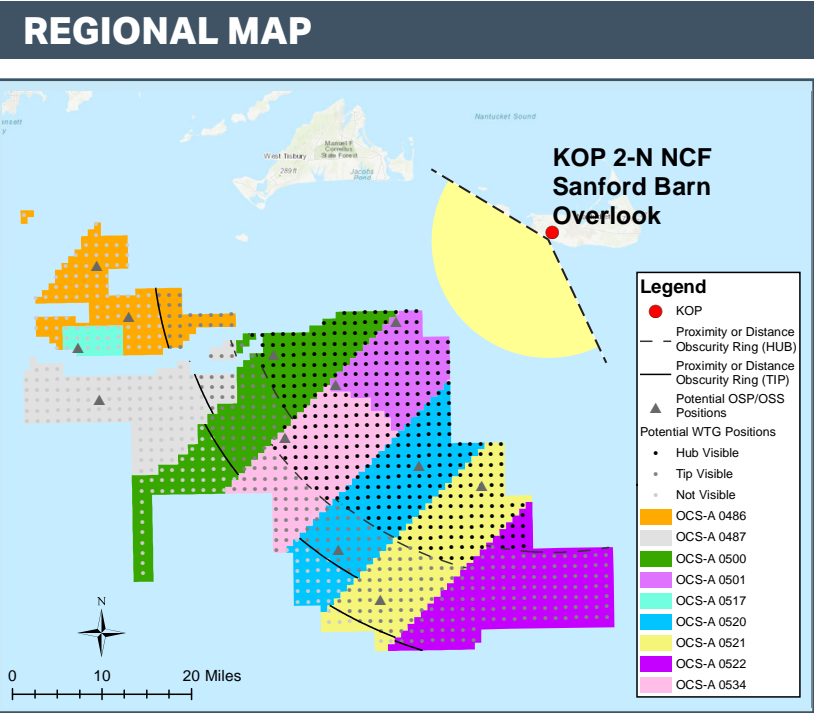
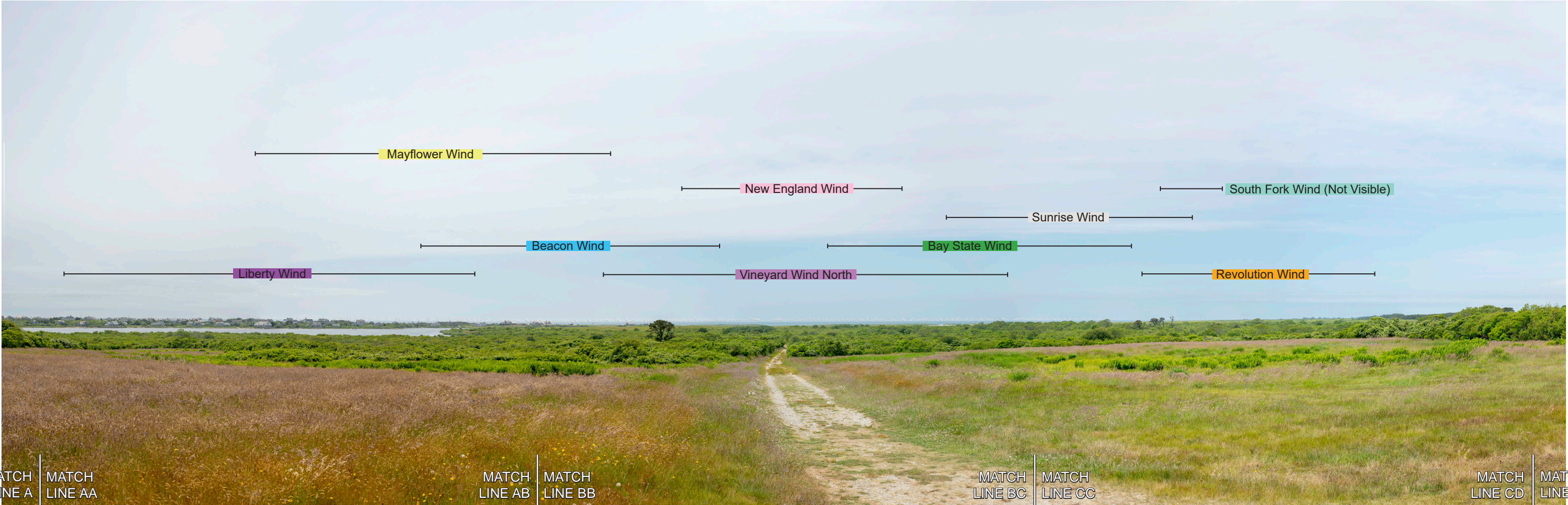


VISIBILTY OF CLOSEST TURBINES



SIMULATED CONDITIONS

3



PROJECT VIEW

Horizontal Field of View: 124°	Furthest Visible WTG: 49 mi / 79 km
Vertical Field of View: 40°	Potential Number of Structures Visible: 392
Nearest WTG: 20.mi / 33 km	Potential Number of Structures Not Visible: 73

ENVIRONMENT

Temperature: 68° F
Humidity: 81%
Wind Dir & Speed: S 12 mph
Weather Condition: Hazy

PHOTOGRAPH AND SITE

Time of photograph: 10:54AM	Viewing direction: South (194°)
Date of photograph: 6-26-20	Latitude: 41.265608°N
L/SCA: Ocean beach	Longitude: 70.150001°W
	Lighting Direction: Backlit diffused

CAMERA

Camera Elevation: 50 ft / 15.2 m
Nikon D4
Nikon 50mm
ISO: 100
Fstop: f/7.1
Shutter: 1/1250 sec
Exposure bias: -0.7 step



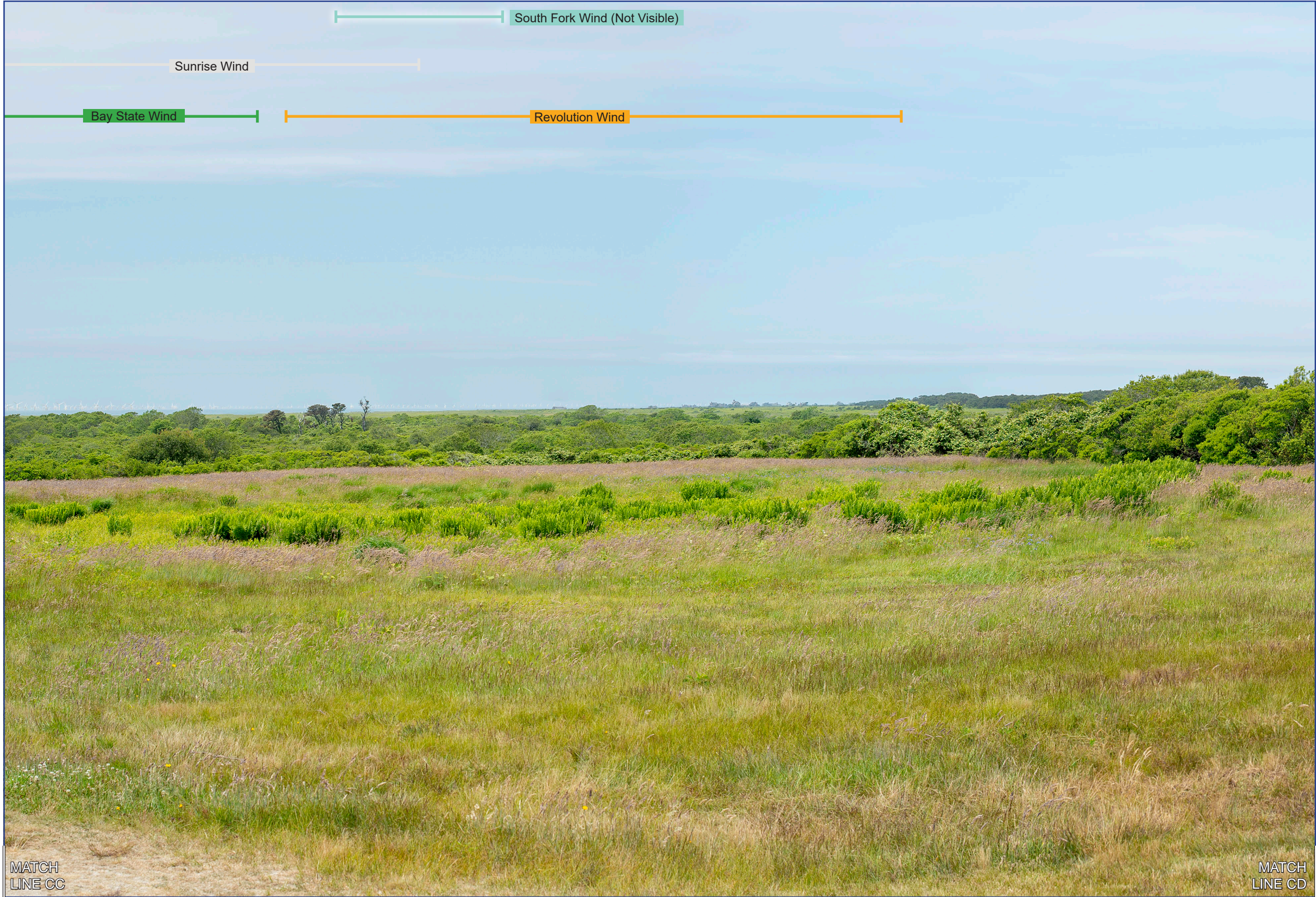
MATCH
LINE A

MATCH
LINE AB

MATCH
LINE BB



The page should viewed at 11" x 17" approximately 15" from viewer's eyes .



MATCH
LINE BC

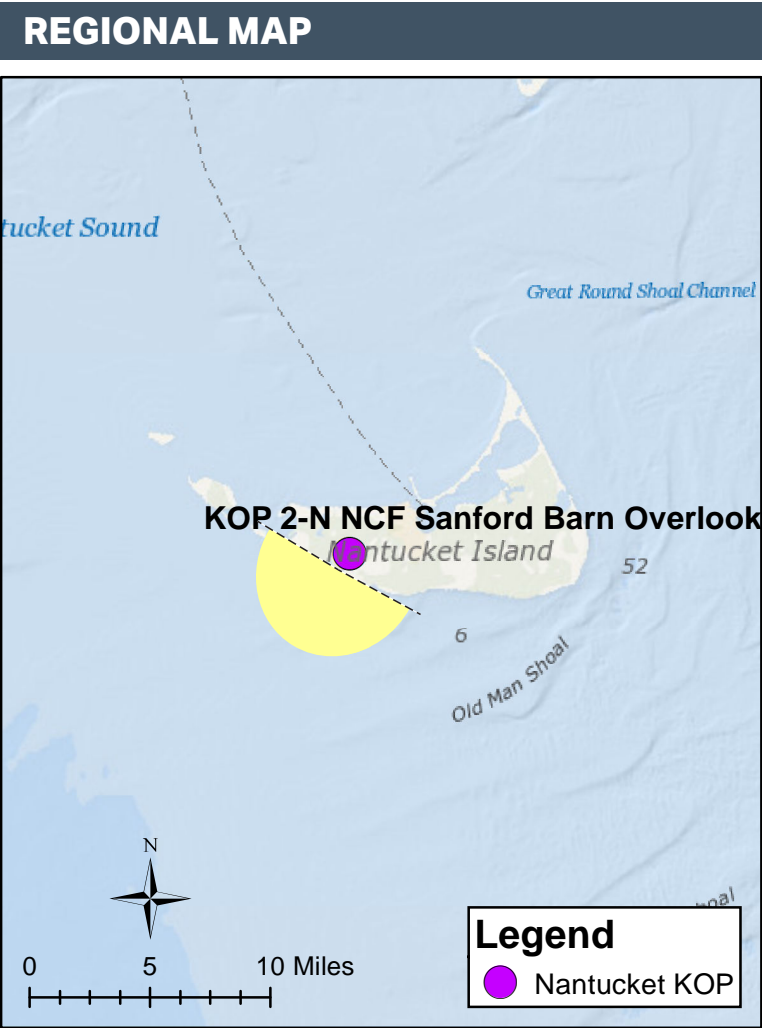
MATCH
LINE CC

MATCH
LINE CD

MATCH
LINE B

PANORAMIC PHOTOGRAPH - EXISTING CONDITIONS

1



MATCH LINES define visual simulation detail areas

A-B is shown on pages 2-3
AA-AB is shown on page 4
BB-BC is shown on page 5
CC-CD is shown on page 6

PROJECT VIEW

Horizontal Field of View: 182.3°	Furthest Visible WTG: 60 mi / 96 km
Vertical Field of View: 40°	Potential Number of Structures isible: 534
Nearest WTG: 20 mi / 33 km	Potential Number of Structures Not Visible: 80

PHOTOGRAPH AND SITE

Time of photograph: 10:54 AM	Viewing direction: South (230°)
Date of photograph: 6-26-20	Latitude: 41.265608°N
L/SCA: Ocean beach	Longitude: 70.150001°W
	Lighting Direction: Backlit diffused

ENVIRONMENT

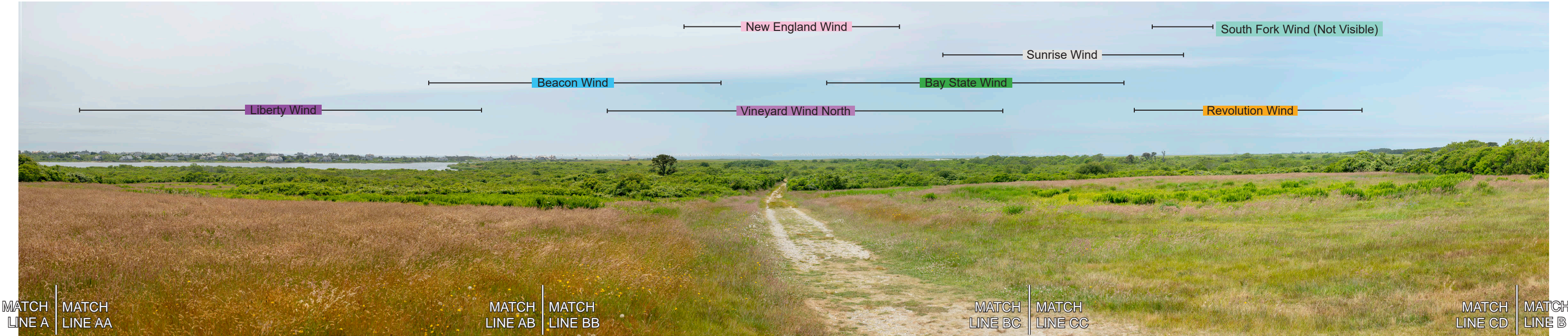
Temperature: 68° F
Humidity: 81%
Wind Dir & Speed: S 12 mph
Weather Condition: Hazy

CAMERA

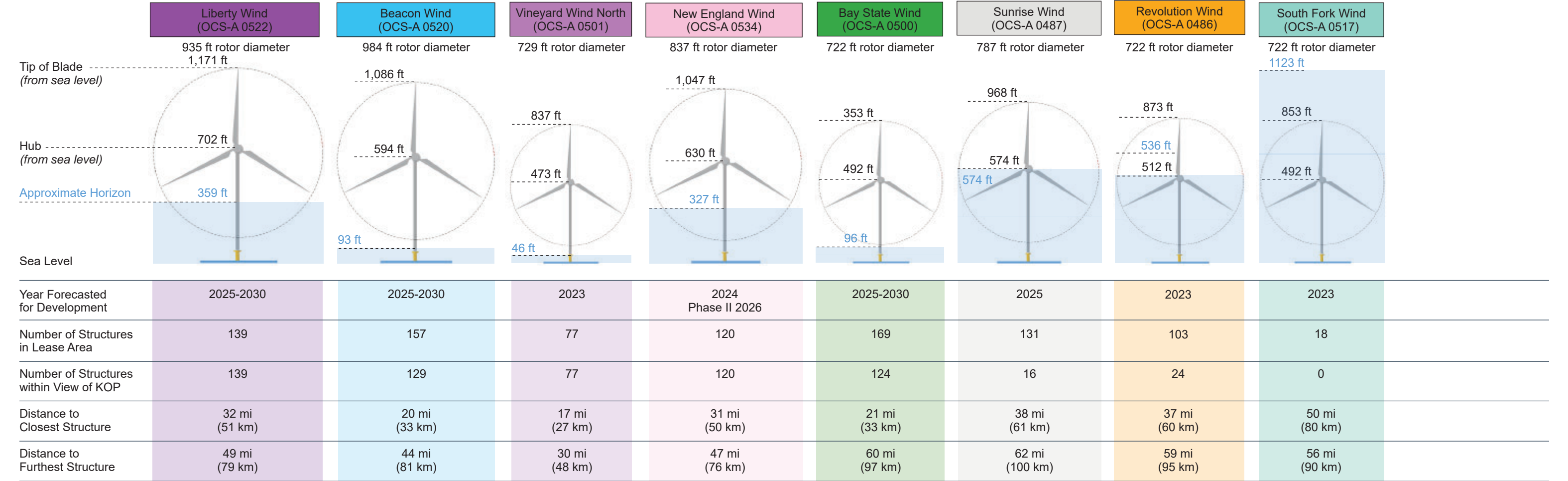
Camera Elevation: 50 ft /15.2 m
Nikon D4
Nikon 50mm
ISO: 100
Fstop: f/7.1
Shutter: 1/1250 sec
Exposure bias: -0.7 step

SIMULATED CONDITIONS

2

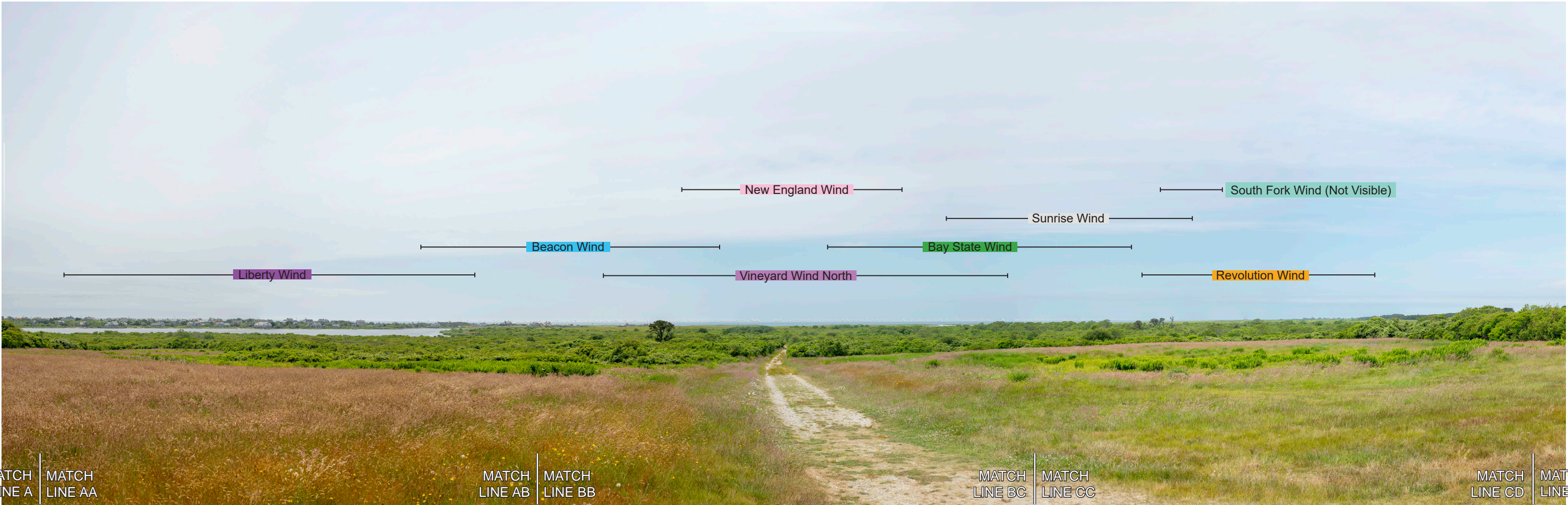


VISIBILTY OF CLOSEST TURBINES

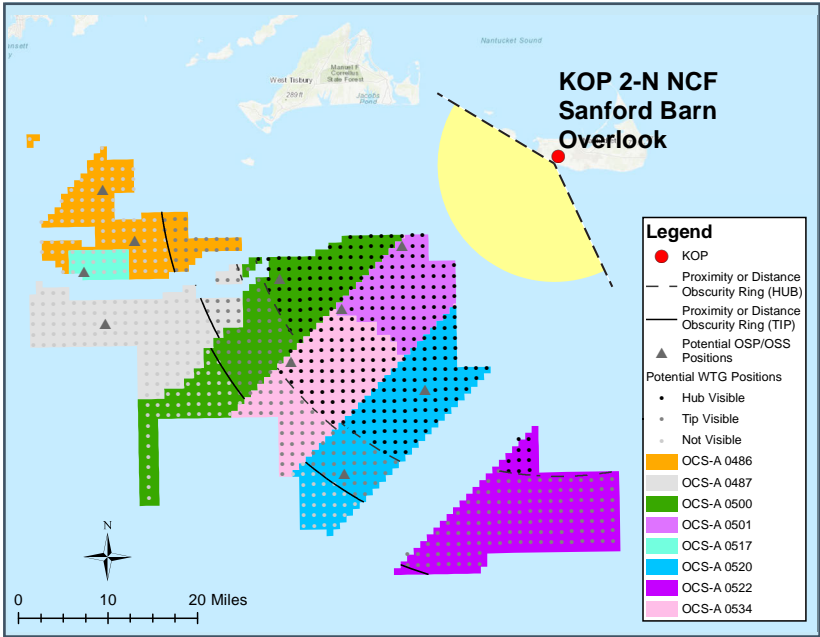


SIMULATED CONDITIONS

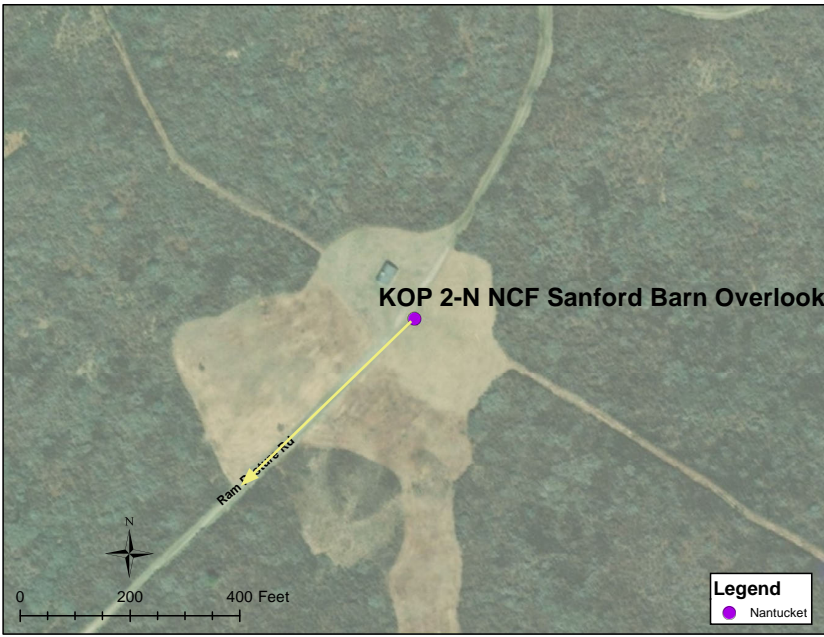
3



REGIONAL MAP



SITE MAP



PROJECT VIEW

Horizontal Field of View: 182.3°	Furthest Visible WTG: 60 mi / 96 km
Vertical Field of View: 40°	Potential Number of Structures isible: 534
Nearest WTG: 20 mi / 33 km	Potential Number of Structures Not Visible: 80

ENVIRONMENT

Temperature: 68° F
Humidity: 81%
Wind Dir & Speed: S 12 mph
Weather Condition: Hazy

PHOTOGRAPH AND SITE

Time of photograph: 10:54 AM	Viewing direction: South (194°)
Date of photograph: 6-26-20	Latitude: 41.265608°N
L/SCA: Ocean beach	Longitude: 70.150001°W
	Lighting Direction: Backlit diffused

CAMERA

Camera Elevation: 50 ft / 15.2 m
Nikon D4
Nikon 50mm
ISO: 100
Fstop: f/7.1
Shutter: 1/1250 sec
Exposure bias: -0.7 step



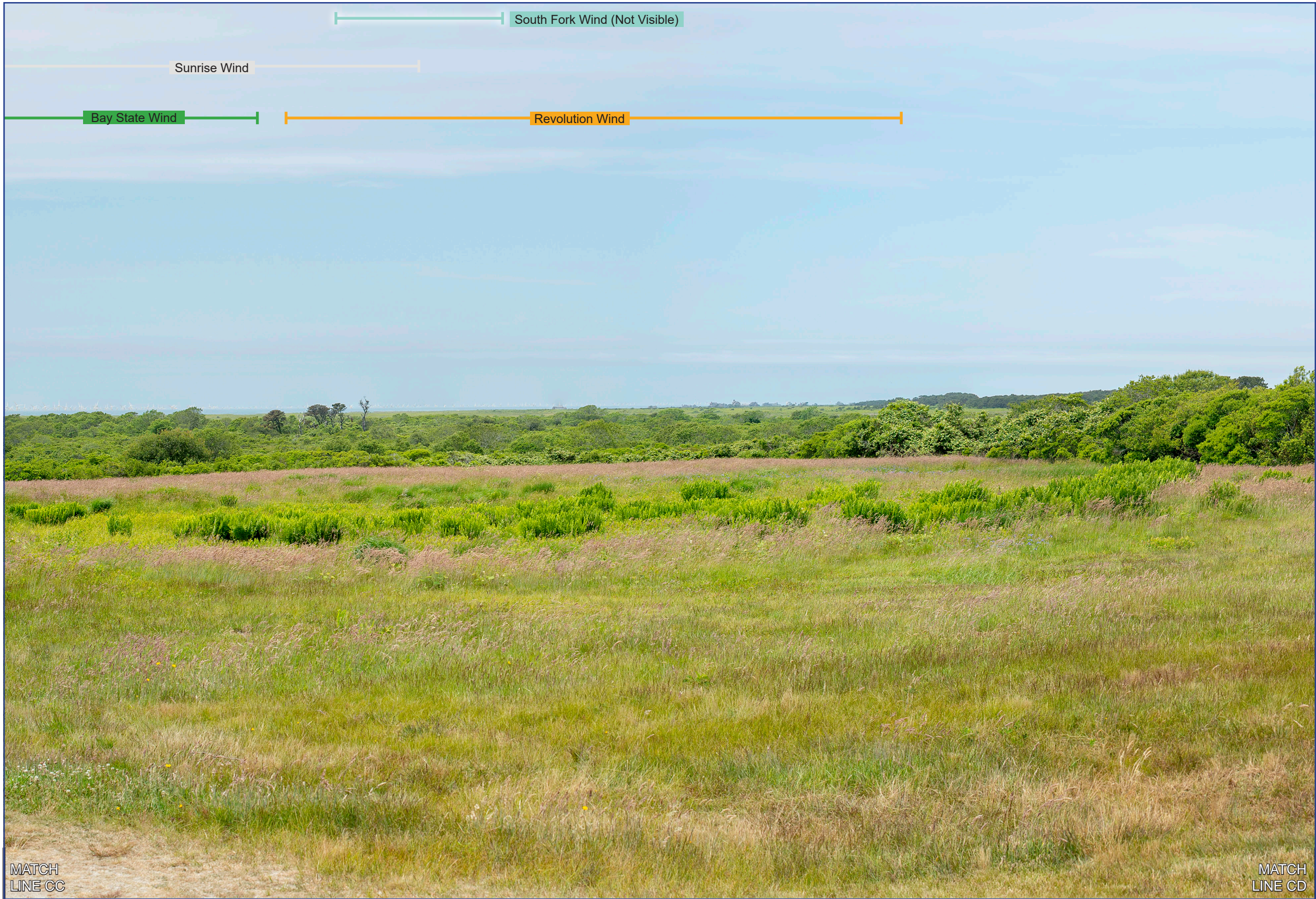
MATCH
LINE A

MATCH
LINE AB

MATCH
LINE BB



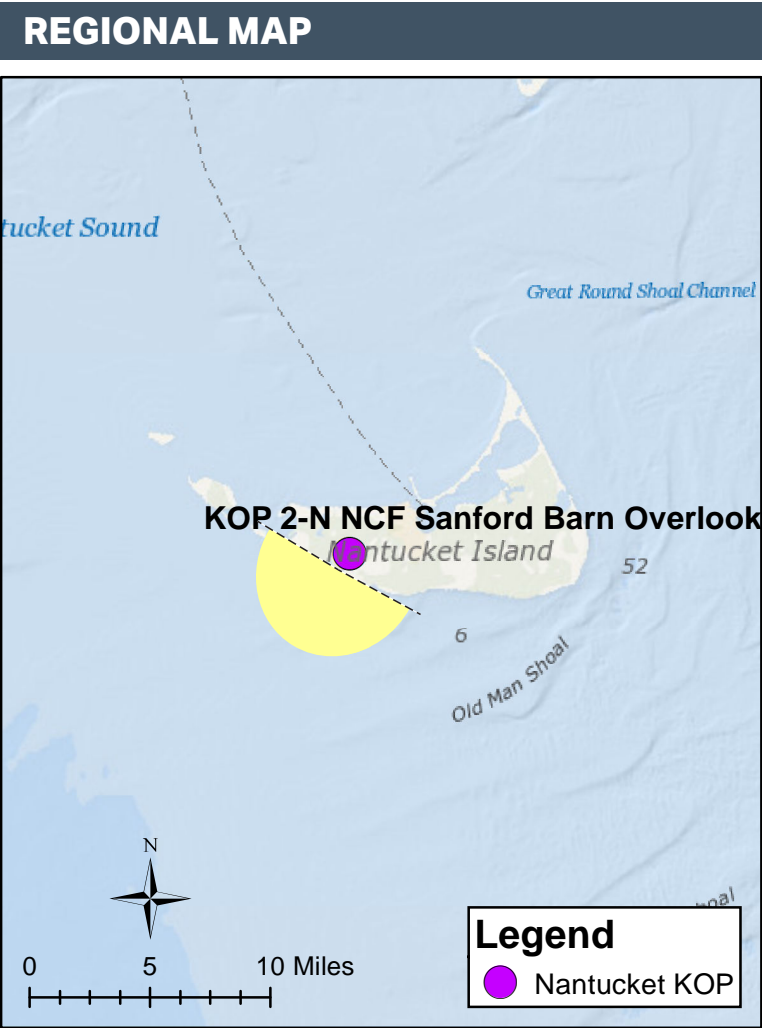
The page should viewed at 11" x 17" approximately 15" from viewer's eyes .



The page should viewed at 11" x 17" approximately 15" from viewer's eyes .

PANORAMIC PHOTOGRAPH - EXISTING CONDITIONS

1



MATCH LINES define visual simulation detail areas

A-B is shown on pages 2-3
AA-AB is shown on page 4
BB-BC is shown on page 5
CC-CD is shown on page 6

PROJECT VIEW

Horizontal Field of View: 182.3°	Furthest Visible WTG: 62.4 mi / 100.42 km
Vertical Field of View: 39.6°	Potential Number of WTGs Visible: 629
Nearest WTG: 17 mi / 27.35 km	Potential Number of WTGs Not Visible: 285

PHOTOGRAPH AND SITE

Time of photograph: 10:54 AM	Viewing direction: South (194°)
Date of photograph: 6-26-20	Latitude: 41.265608°N
L/SCA: Ocean beach	Longitude: 70.150001°W
	Lighting Direction: Backlit diffused

ENVIRONMENT

Temperature: 68° F
Humidity: 81%
Wind Dir & Speed: S 12 mph
Weather Condition: Hazy

CAMERA

Camera Elevation: 50.5 ft / 15.4 m
Nikon D4
Nikon 50mm
ISO: 100
Fstop: f/7.1
Shutter: 1/1250 sec
Exposure bias: -0.7 step

SIMULATED CONDITIONS

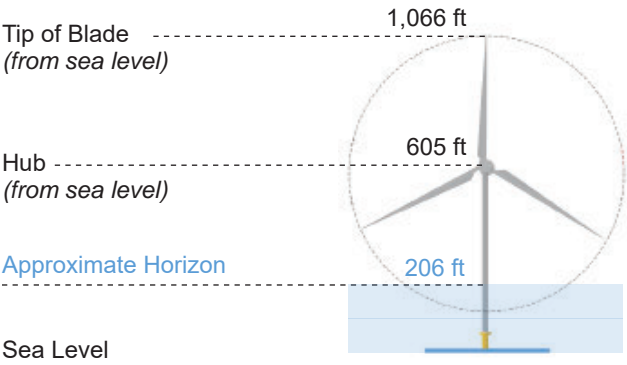
2



VISIBILTY OF CLOSEST TURBINES

Mayflower Wind
(OCS-A 0521)

919 ft rotor



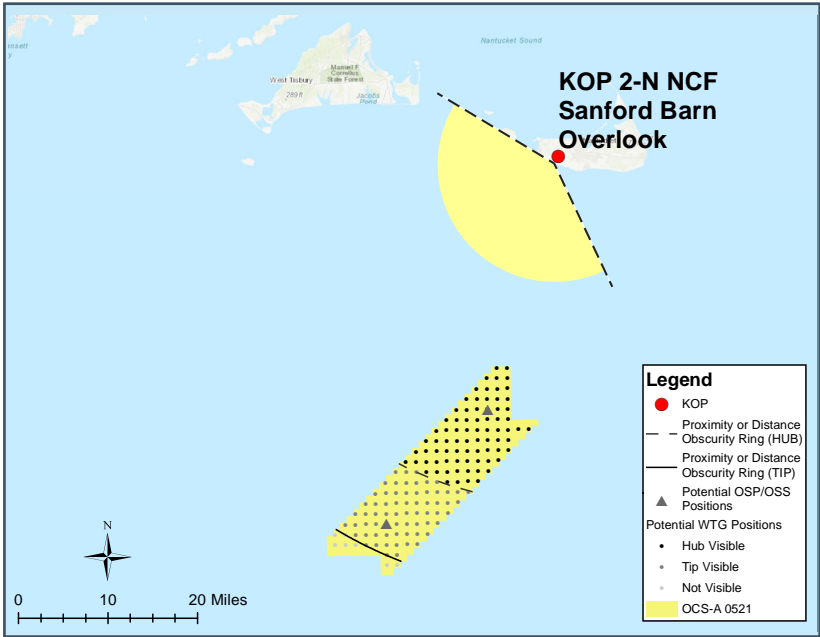
Year Forecasted for Development	2025	
Number of Structures in Lease Area	149	
Number of Structures within View of KOP	142	
Distance to Closest Structure	24.4 mi (39.26 km)	
Distance to Furthest Structure	50.3 mi (80.95 km)	

SIMULATED CONDITIONS

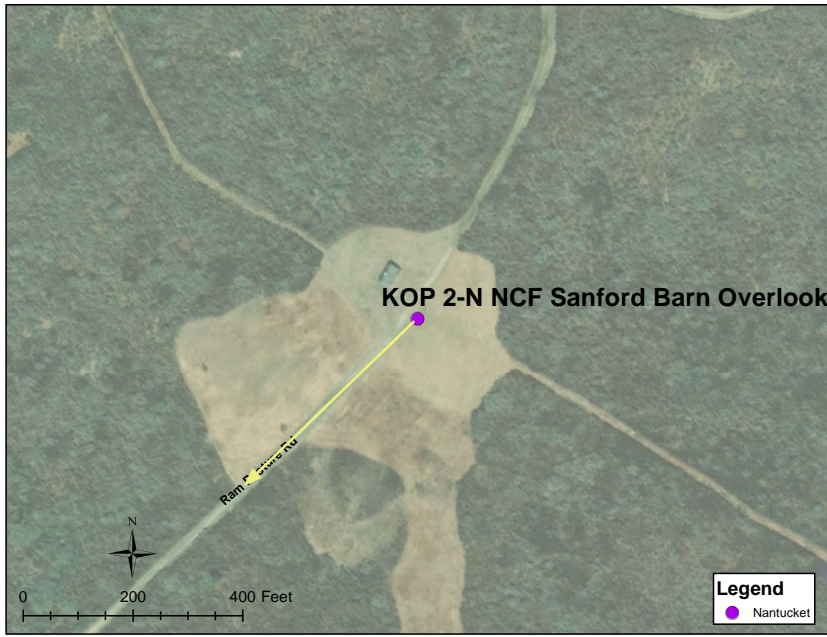
3



REGIONAL MAP



SITE MAP



PROJECT VIEW

Horizontal Field of View: 124°	Furthest Visible WTG: 62.4 mi / 100.42 km
Vertical Field of View: 39.6°	Potential Number of WTGs Visible: 629
Nearest WTG: 17 mi / 27.35 km	Potential Number of WTGs Not Visible: 285

ENVIRONMENT

Temperature: 68° F
Humidity: 81%
Wind Dir & Speed: S 12 mph
Weather Condition: Hazy

PHOTOGRAPH AND SITE

Time of photograph: 10:54 AM	Viewing direction: South (194°)
Date of photograph: 6-26-20	Latitude: 41.265608°N
L/SCA: Ocean beach	Longitude: 70.150001°W
	Lighting Direction: Backlit diffused

CAMERA

Camera Elevation: 50.5 ft / 15.4 m
Nikon D4
Nikon 50mm
ISO: 100
Fstop: f/7.1
Shutter: 1/1250 sec
Exposure bias: -0.7 step



MATCH
LINE A

MATCH
LINE AB

MATCH
LINE BB



MATCH
LINE AB

MATCH
LINE BB

MATCH
LINE BC

MATCH
LINE CC



MATCH
LINE BC

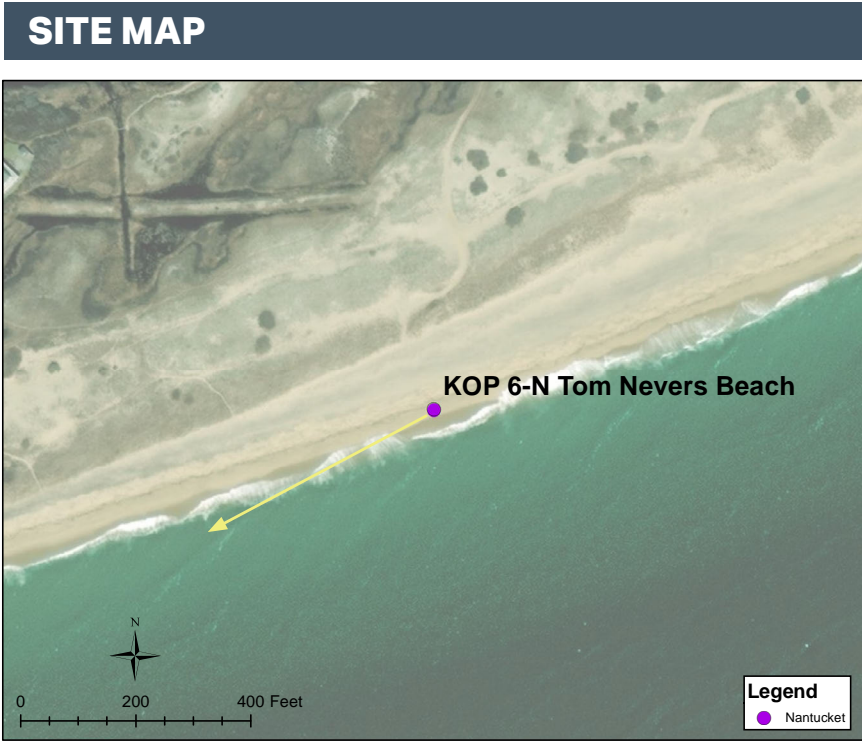
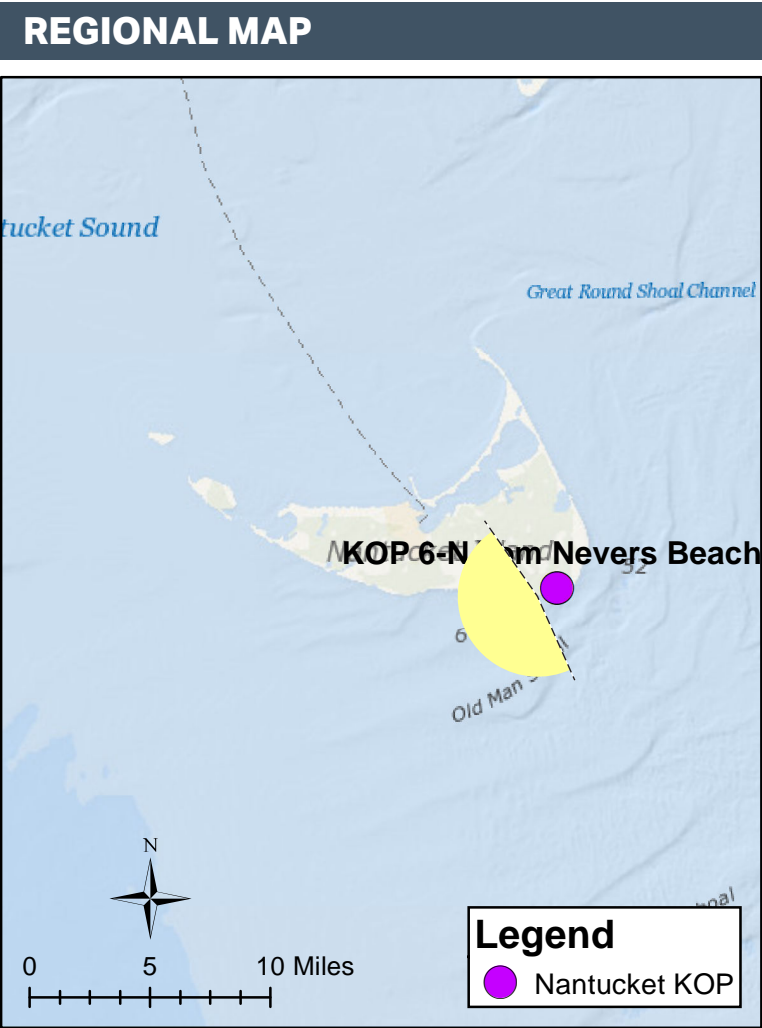
MATCH
LINE CC

MATCH
LINE CD

MATCH
LINE B

PANORAMIC PHOTOGRAPH - EXISTING CONDITIONS

1



MATCH LINES define visual simulation detail areas

A-B is shown on pages 2-3
AA-AB is shown on page 4
BB-BC is shown on page 5
CC-CD is shown on page 6

PROJECT VIEW

Horizontal Field of View: 169°	Furthest Visible WTG: 70 mi / 113 km
Vertical Field of View: 40°	Potential Number of Structures Visible: 136
Nearest WTG: 23 mi / 37 km	Potential Number of Structures Not Visible: 313

PHOTOGRAPH AND SITE

Time of photograph: 8:44AM	Viewing direction: South (242°)
Date of photograph: 6-27-20	Latitude: 41.244577°N
L/SCA: Ocean Beach, Open Ocean, Dunes	Longitude: 69.985046°W
	Lighting Direction: Sidelit diffused

ENVIRONMENT

Temperature: 68° F
Humidity: 90%
Wind Dir & Speed: S 10 mph
Weather Condition: Partly Cloudy

CAMERA

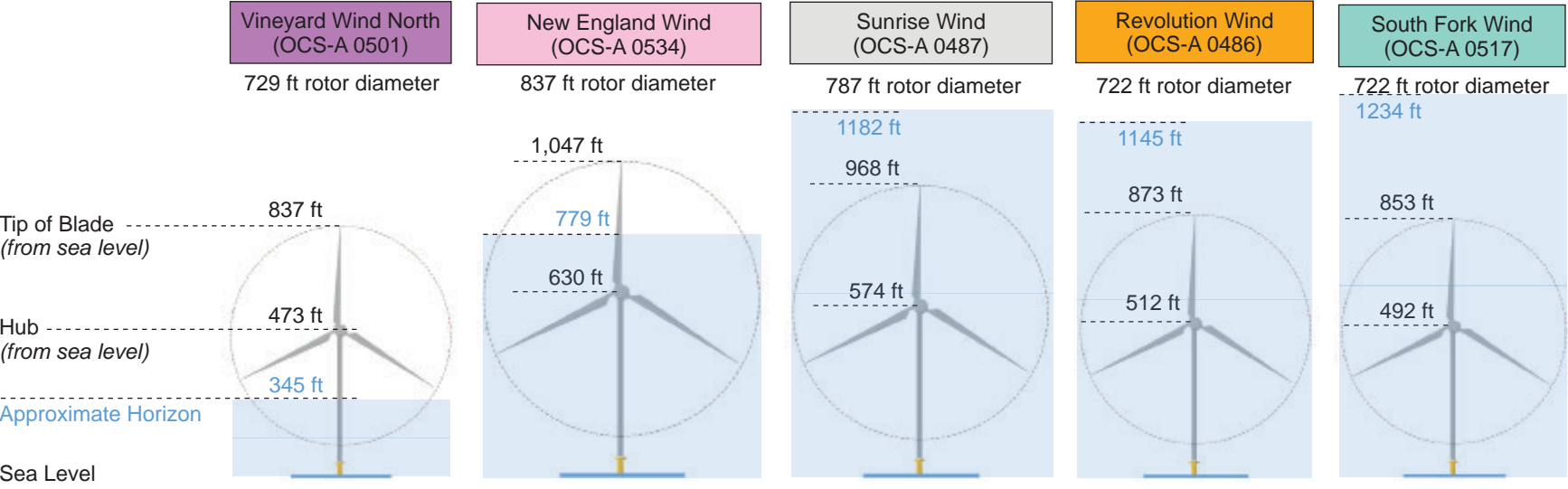
Camera Elevation: 6.5 ft / 1.7 m
Nikon D4
Nikon 50mm
ISO: 100
Fstop: f/7.1
Shutter: 1/1250 sec
Exposure bias: -0.7 step

SIMULATED CONDITIONS

2



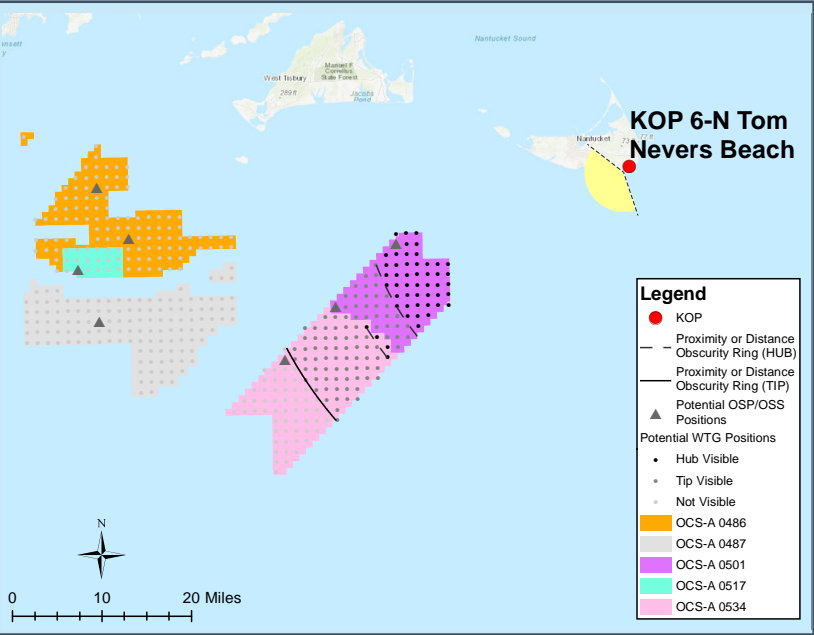
VISIBILTY OF CLOSEST TURBINES



Year Forecasted for Development	2023	2024 Phase II 2026	2025	2023	2023	
Number of Structures in Lease Area	77	120	131	103	18	
Number of Structures within View of KOP	71	65	0	0	0	
Distance to Closest Structure	23 mi (37 km)	38 mi (61 km)	46 mi (74 km)	45 mi (73 km)	47 mi (75 km)	
Distance to Furthest Structure	36 mi (59 km)	52 mi (84 km)	70 mi (113 km)	109 mi (95 km)	64 mi (103 km)	



REGIONAL MAP



SITE MAP



PROJECT VIEW

Horizontal Field of View: 124°	Furthest Visible WTG: 70 mi / 113 km
Vertical Field of View: 40°	Potential Number of Structures Visible: 136
Nearest WTG: 23 mi / 37 km	Potential Number of Structures Not Visible: 313

PHOTOGRAPH AND SITE

Time of photograph: 8:44AM	Viewing direction: South (242°)
Date of photograph: 6-27-20	Latitude: 41.244577°N
L/SCA: Ocean Beach, Open Ocean, Dunes	Longitude: 69.985046°W
	Lighting Direction: Sidelit diffused

ENVIRONMENT

Temperature: 68° F
Humidity: 90%
Wind Dir & Speed: S 10 mph
Weather Condition: Partly Cloudy

CAMERA

Camera Elevation: 6.5 ft /1.7 m
Nikon D4
Nikon 50mm
ISO: 100
Fstop: f/7.1
Shutter: 1/1250 sec
Exposure bias: -0.7 step



MATCH
LINE A

MATCH
LINE AA

MATCH
LINE AB

MATCH
LINE BB

The page should viewed at 11" x 17" approximately 15" from viewer's eyes .

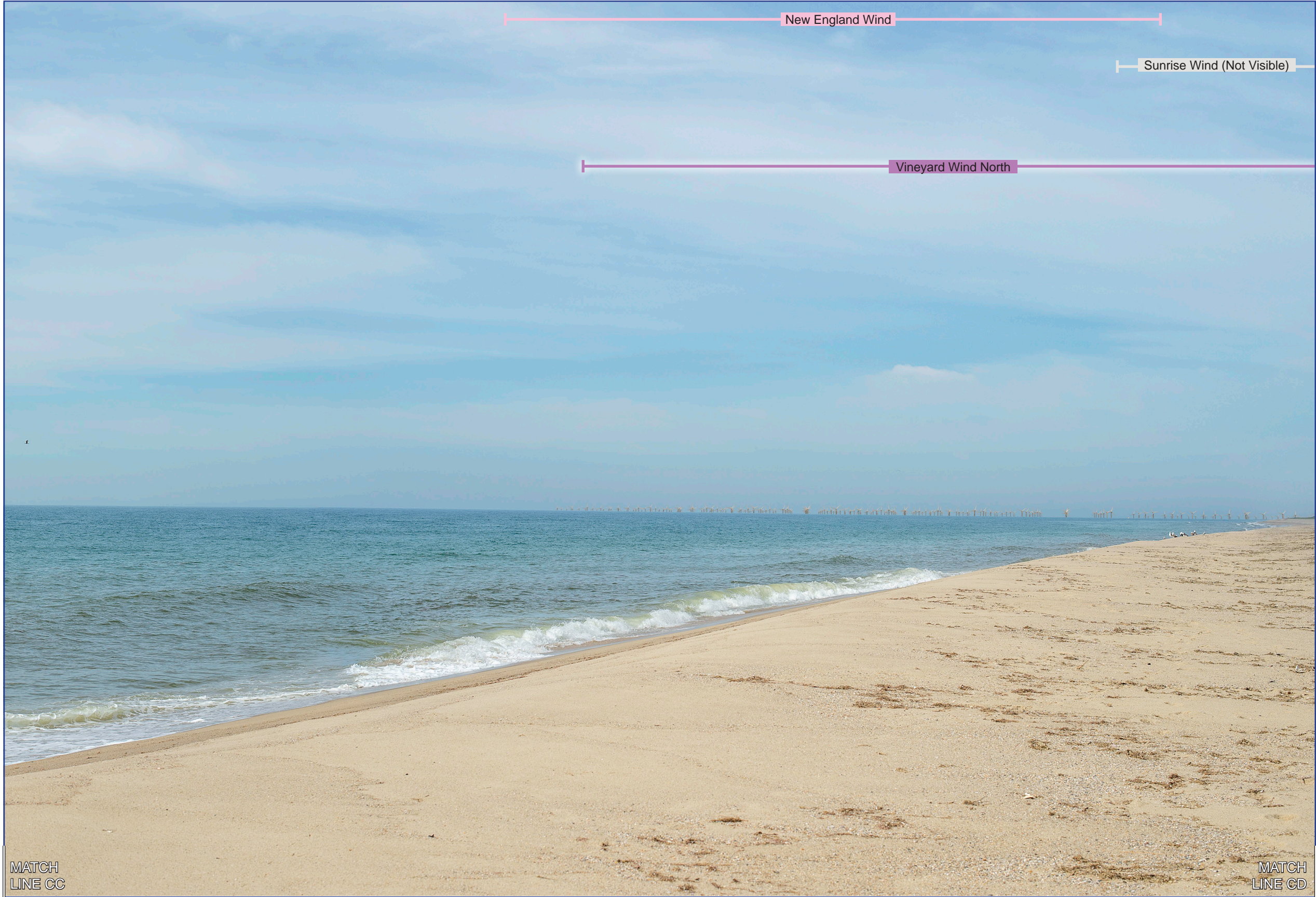


MATCH
LINE AB

MATCH
LINE BB

MATCH
LINE BC

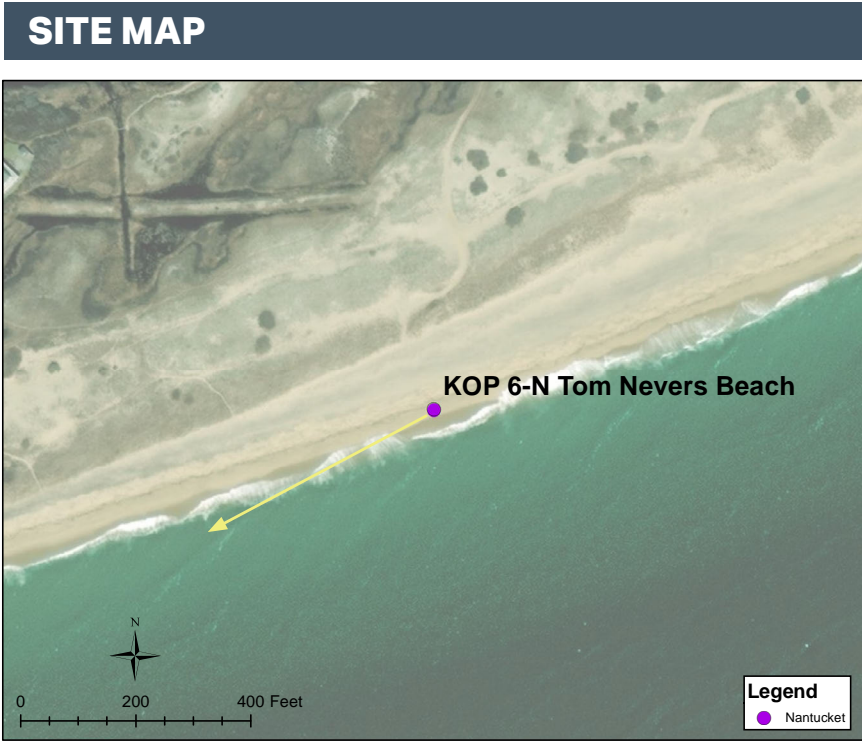
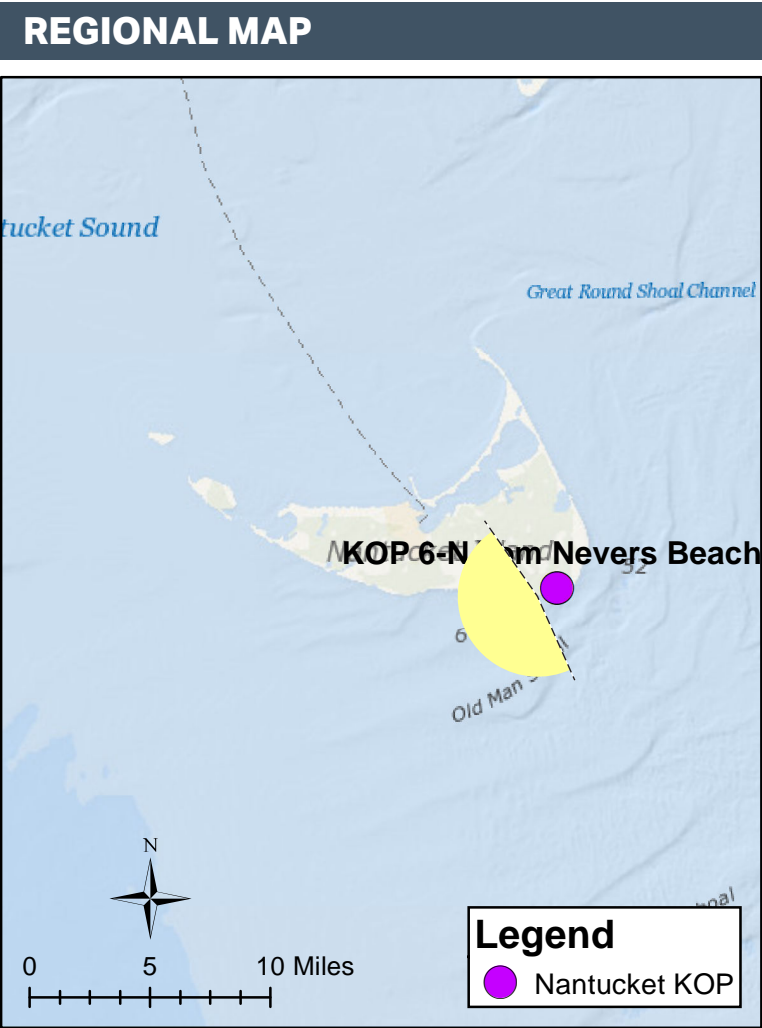
MATCH
LINE CC



The page should viewed at 11" x 17" approximately 15" from viewer's eyes .

PANORAMIC PHOTOGRAPH - EXISTING CONDITIONS

1



MATCH LINES define visual simulation detail areas

A-B is shown on pages 2-3
AA-AB is shown on page 4
BB-BC is shown on page 5
CC-CD is shown on page 6

PROJECT VIEW

Horizontal Field of View: 169°	Furthest Visible WTG: 70 mi / 113 km
Vertical Field of View: 40°	Potential Number of Structures Visible: 228
Nearest WTG: 23 mi / 37 km	Potential Number of Structures Not Visible: 370

PHOTOGRAPH AND SITE

Time of photograph: 8:44AM	Viewing direction: South (242°)
Date of photograph: 6-27-20	Latitude: 41.244577°N
L/SCA: Ocean Beach, Open Ocean, Dunes	Longitude: 69.985046°W
	Lighting Direction: Sidelit diffused

ENVIRONMENT

Temperature: 68° F
Humidity: 90%
Wind Dir & Speed: S 10 mph
Weather Condition: Partly Cloudy

CAMERA

Camera Elevation: 6.5 ft / 1.7 m
Nikon D4
Nikon 50mm
ISO: 100
Fstop: f/7.1
Shutter: 1/1250 sec
Exposure bias: -0.7 step

SIMULATED CONDITIONS

2

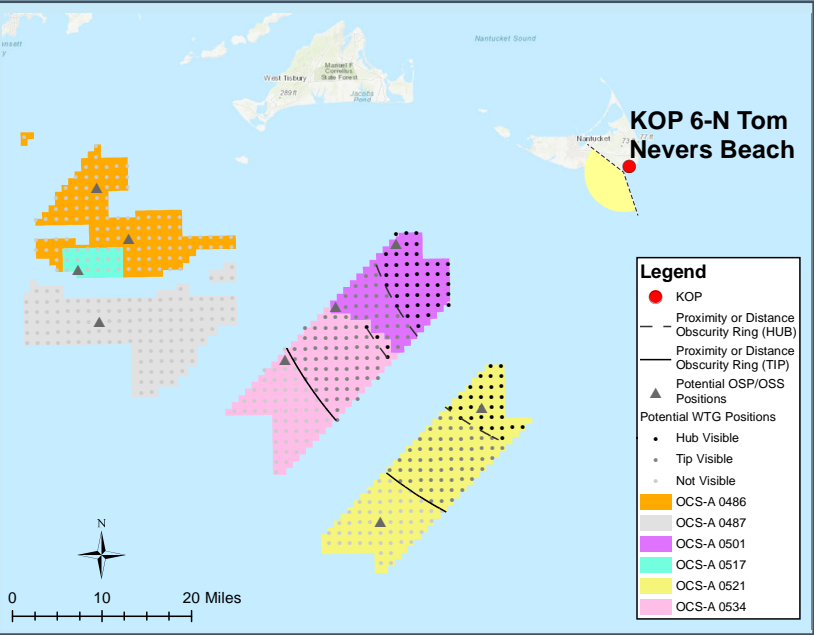


VISIBILTY OF CLOSEST TURBINES

	Mayflower Wind (OCS-A 0521)	Vineyard Wind North (OCS-A 0501)	New England Wind (OCS-A 0534)	Sunrise Wind (OCS-A 0487)	Revolution Wind (OCS-A 0486)	South Fork Wind (OCS-A 0517)	
	919 ft rotor diameter	729 ft rotor diameter	837 ft rotor diameter	787 ft rotor diameter	722 ft rotor diameter	722 ft rotor diameter	
Tip of Blade (from sea level)	1,066 ft	837 ft	1,047 ft	1182 ft	1145 ft	1234 ft	
Hub (from sea level)	605 ft	473 ft	630 ft	968 ft	873 ft	853 ft	
Approximate Horizon	345 ft	250 ft	779 ft	574 ft	512 ft	492 ft	
Sea Level							
Year Forecasted for Development	2025	2023	2024 Phase II 2026	2025	2023	2023	
Number of Structures in Lease Area	149	77	120	131	103	18	
Number of Structures within View of KOP	92	71	65	0	0	0	
Distance to Closest Structure	26 mi (43 km)	23 mi (37 km)	38 mi (61 km)	46 mi (74 km)	45 mi (73 km)	47 mi (75 km)	
Distance to Furthest Structure	54 mi (87 km)	36 mi (59 km)	52 mi (84 km)	70 mi (113 km)	109 mi (95 km)	64 mi (103 km)	



REGIONAL MAP



SITE MAP



PROJECT VIEW

Horizontal Field of View: 124°	Furthest Visible WTG: 70 mi / 113 km
Vertical Field of View: 40°	Potential Number of Structures Visible: 228
Nearest WTG: 23 mi / 37 km	Potential Number of Structures Not Visible: 370

PHOTOGRAPH AND SITE

Time of photograph: 8:44AM	Viewing direction: South (242°)
Date of photograph: 6-27-20	Latitude: 41.244577°N
L/SCA: Ocean Beach, Open Ocean, Dunes	Longitude: 69.985046°W
	Lighting Direction: Sidelit diffused

ENVIRONMENT

Temperature: 68° F
Humidity: 90%
Wind Dir & Speed: S 10 mph
Weather Condition: Partly Cloudy

CAMERA

Camera Elevation: 6.5 ft / 1.7 m
Nikon D4
Nikon 50mm
ISO: 100
Fstop: f/7.1
Shutter: 1/1250 sec
Exposure bias: -0.7 step



MATCH
LINE A

MATCH
LINE AA

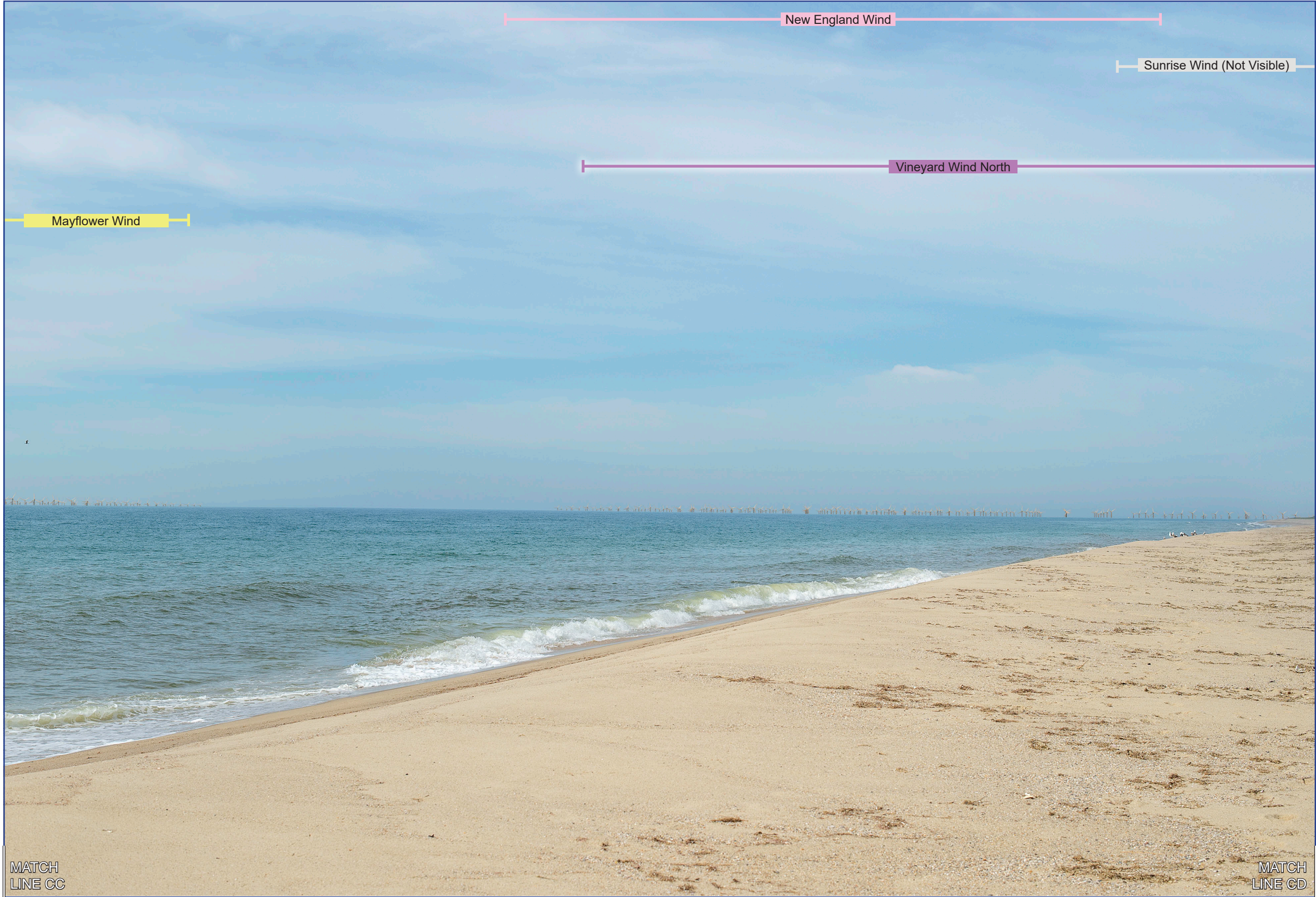
MATCH
LINE AB

MATCH
LINE BB

The page should viewed at 11" x 17" approximately 15" from viewer's eyes .



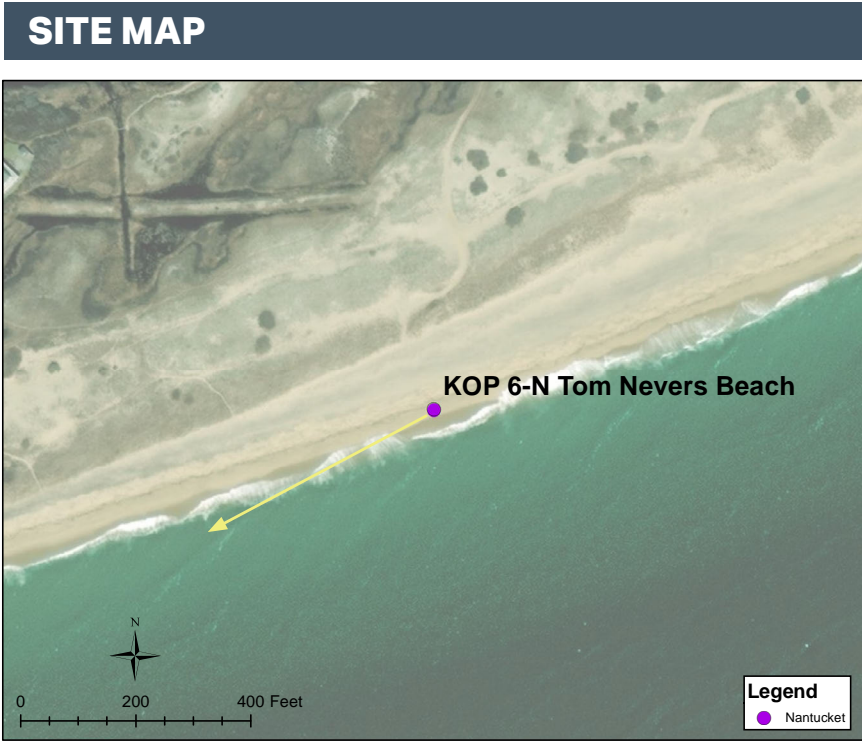
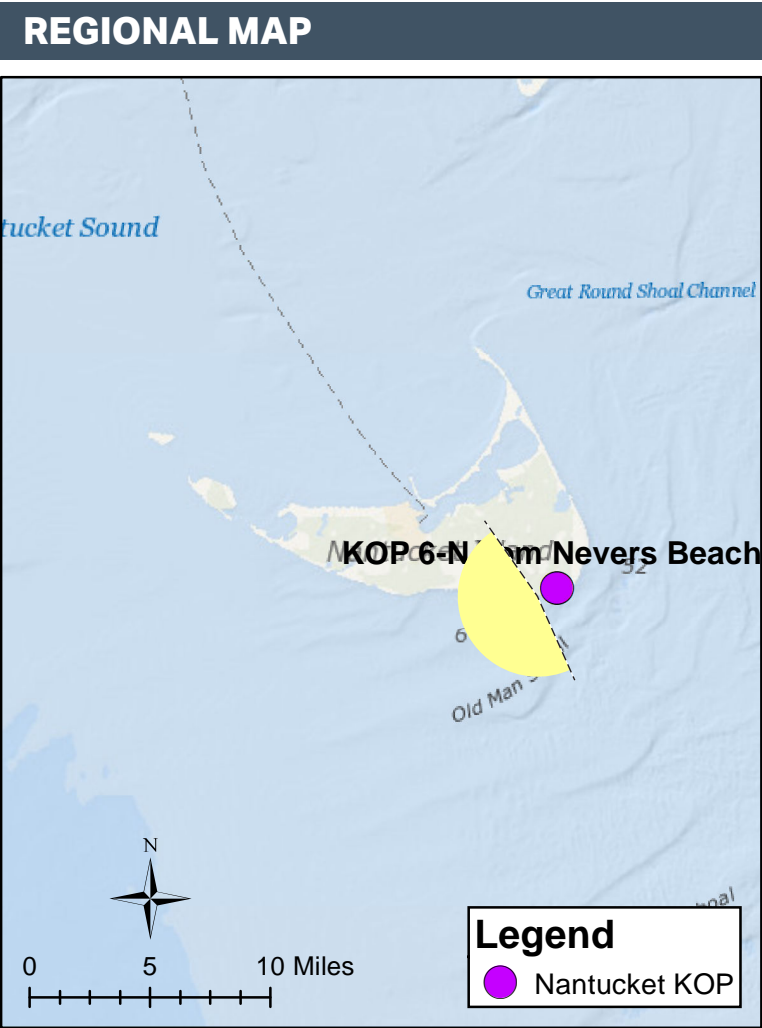
The page should viewed at 11" x 17" approximately 15" from viewer's eyes .



The page should viewed at 11" x 17" approximately 15" from viewer's eyes .

PANORAMIC PHOTOGRAPH - EXISTING CONDITIONS

1



MATCH LINES define visual simulation detail areas

A-B is shown on pages 2-3
AA-AB is shown on page 4
BB-BC is shown on page 5
CC-CD is shown on page 6

PROJECT VIEW

Horizontal Field of View: 169°	Furthest Visible WTG: 70 mi / 113 km
Vertical Field of View: 40°	Potential Number of WTGs Visible: 463
Nearest WTG: 23 mi / 37 km	Potential Number of WTGs Not Visible: 600

PHOTOGRAPH AND SITE

Time of photograph: 8:44AM	Viewing direction: South (242°)
Date of photograph: 6-27-20	Latitude: 41.244577°N
L/SCA: Ocean Beach, Open Ocean, Dunes	Longitude: 69.985046°W
	Lighting Direction: Sidelit diffused

ENVIRONMENT

Temperature: 68° F
Humidity: 90%
Wind Dir & Speed: S 10 mph
Weather Condition: Partly Cloudy

CAMERA

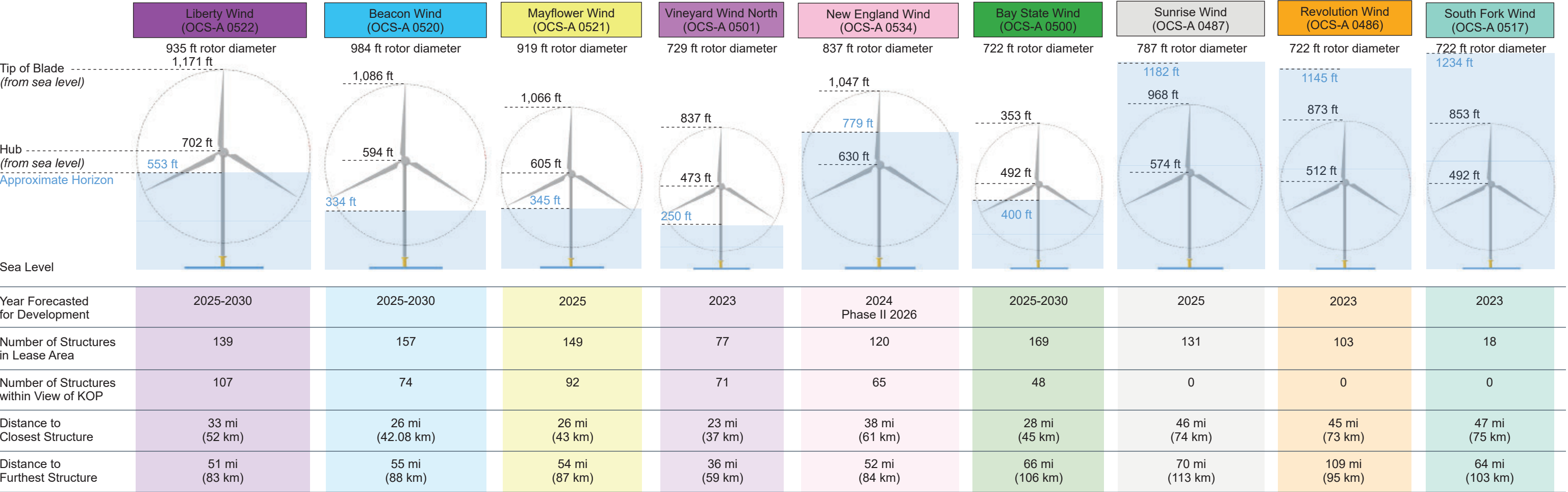
Camera Elevation: 6.5 ft / 1.7 m
Nikon D4
Nikon 50mm
ISO: 100
Fstop: f/7.1
Shutter: 1/1250 sec
Exposure bias: -0.7 step

SIMULATED CONDITIONS

2

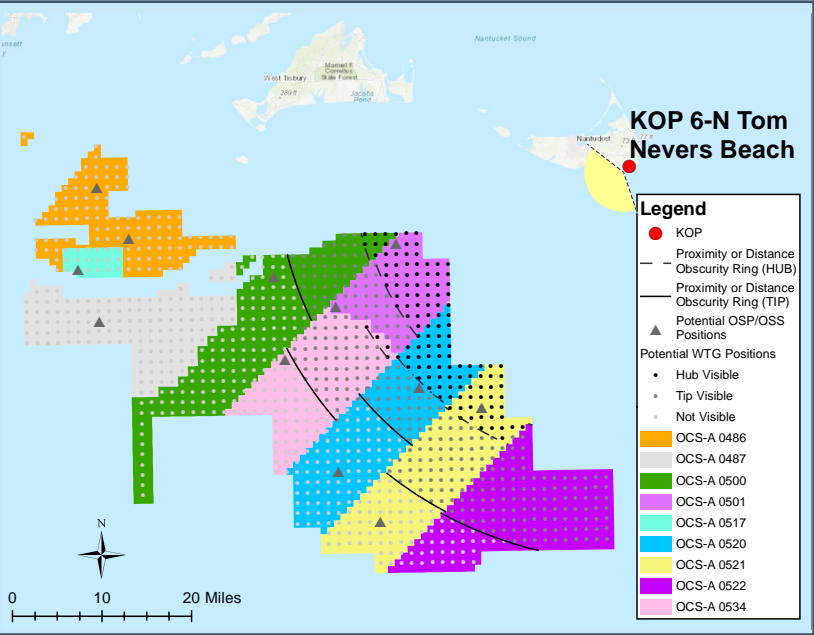


VISIBILTY OF CLOSEST TURBINES





REGIONAL MAP



SITE MAP



PROJECT VIEW

Horizontal Field of View: 124°	Furthest Visible WTG: 70 mi / 113 km
Vertical Field of View: 40°	Potential Number of WTGs Visible: 463
Nearest WTG: 23 mi / 37 km	Potential Number of WTGs Not Visible: 600

ENVIRONMENT

Temperature: 68° F
Humidity: 90%
Wind Dir & Speed: S 10 mph
Weather Condition: Partly Cloudy

PHOTOGRAPH AND SITE

Time of photograph: 8:44AM	Viewing direction: South (242°)
Date of photograph: 6-27-20	Latitude: 41.244577°N
L/SCA: Ocean Beach, Open Ocean, Dunes	Longitude: 69.985046°W
	Lighting Direction: Sidelit diffused

CAMERA

Camera Elevation: 6.5 ft /1.7 m
Nikon D4
Nikon 50mm
ISO: 100
Fstop: f/7.1
Shutter: 1/1250 sec
Exposure bias: -0.7 step



MATCH
LINE A

MATCH
LINE AA

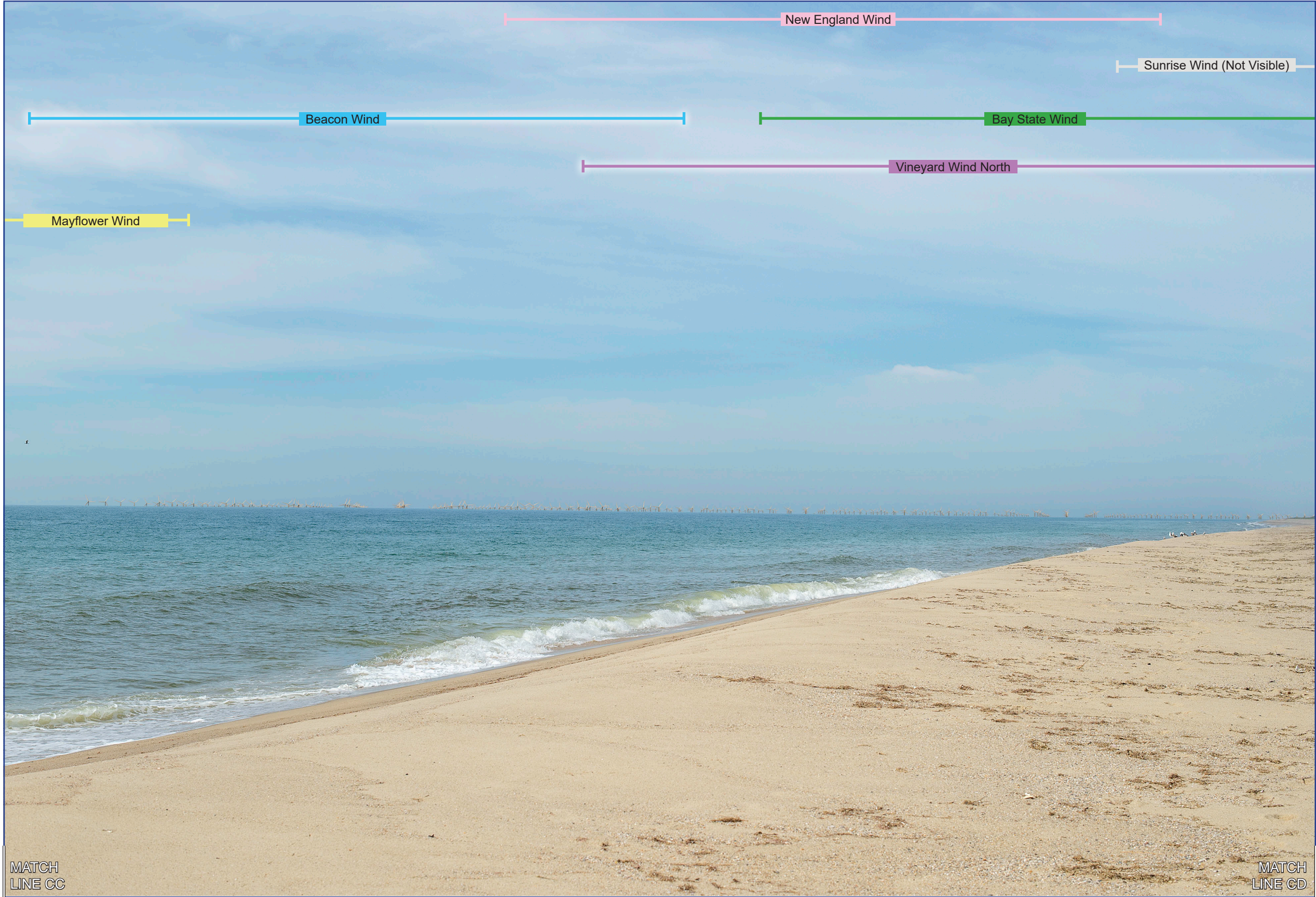
MATCH
LINE AB

MATCH
LINE BB

The page should viewed at 11" x 17" approximately 15" from viewer's eyes .



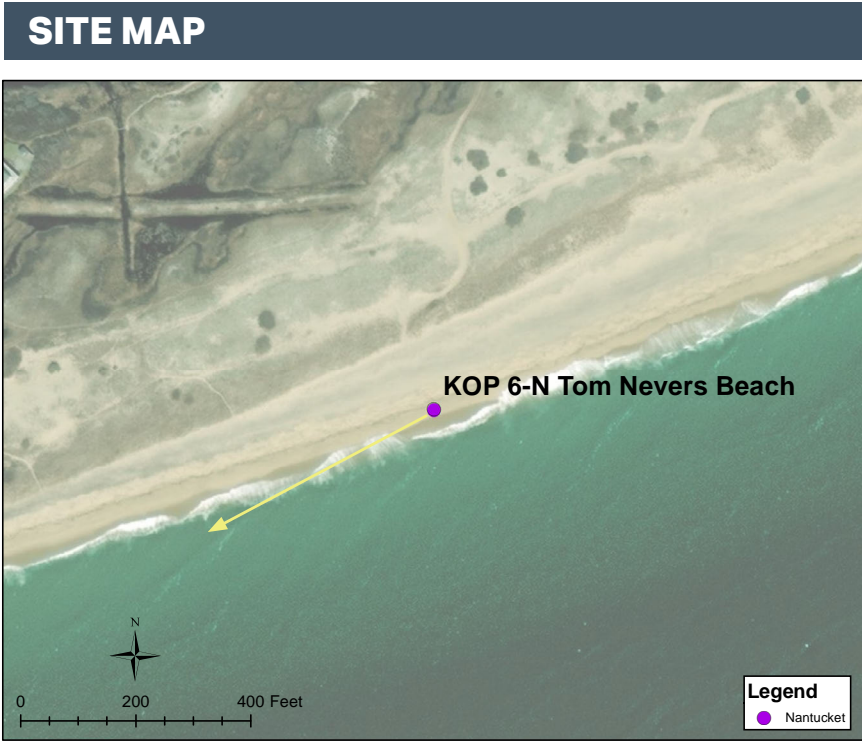
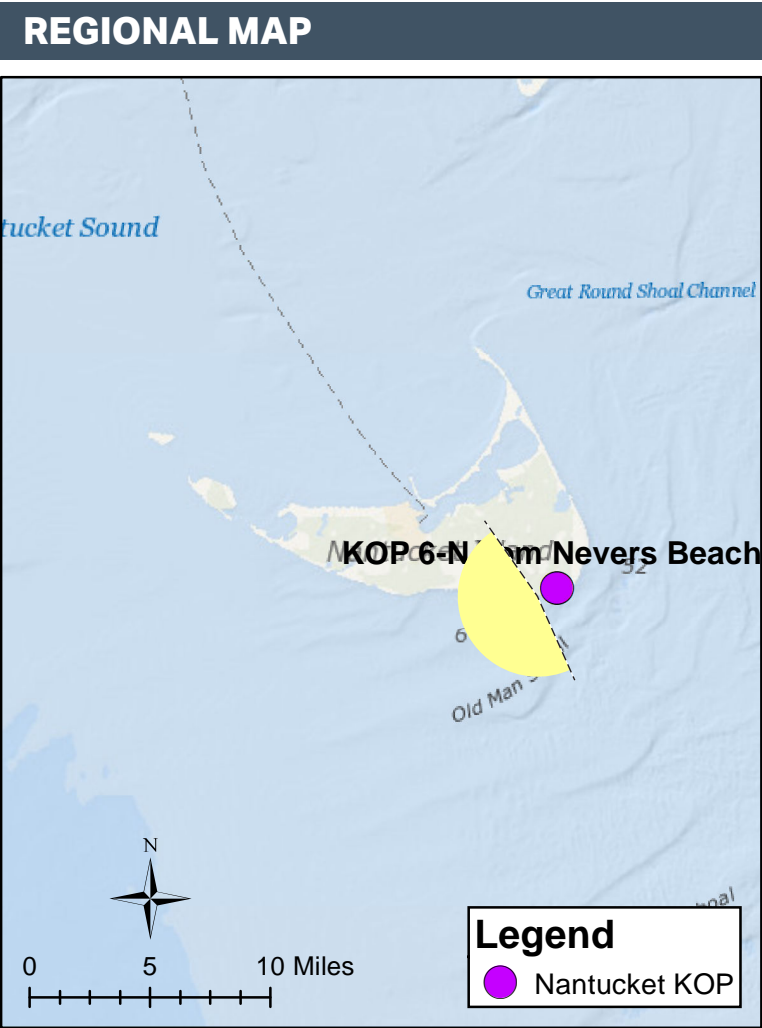
The page should viewed at 11" x 17" approximately 15" from viewer's eyes .



The page should viewed at 11" x 17" approximately 15" from viewer's eyes .

PANORAMIC PHOTOGRAPH - EXISTING CONDITIONS

1



MATCH LINES define visual simulation detail areas

A-B is shown on pages 2-3

AA-AB is shown on page 4

BB-BC is shown on page 5

CC-CD is shown on page 6

PROJECT VIEW

Horizontal Field of View: 169°	Furthest Visible WTG: 70 mi / 113 km
Vertical Field of View: 40°	Potential Number of Structures Visible: 365
Nearest WTG: 23 mi / 37 km	Potential Number of Structures Not Visible: 549

PHOTOGRAPH AND SITE

Time of photograph: 8:44AM	Viewing direction: South (242°)
Date of photograph: 6-27-20	Latitude: 41.244577°N
L/SCA: Ocean Beach, Open Ocean, Dunes	Longitude: 69.985046°W
	Lighting Direction: Sidelit diffused

ENVIRONMENT

Temperature: 68° F
Humidity: 90%
Wind Dir & Speed: S 10 mph
Weather Condition: Partly Cloudy

CAMERA

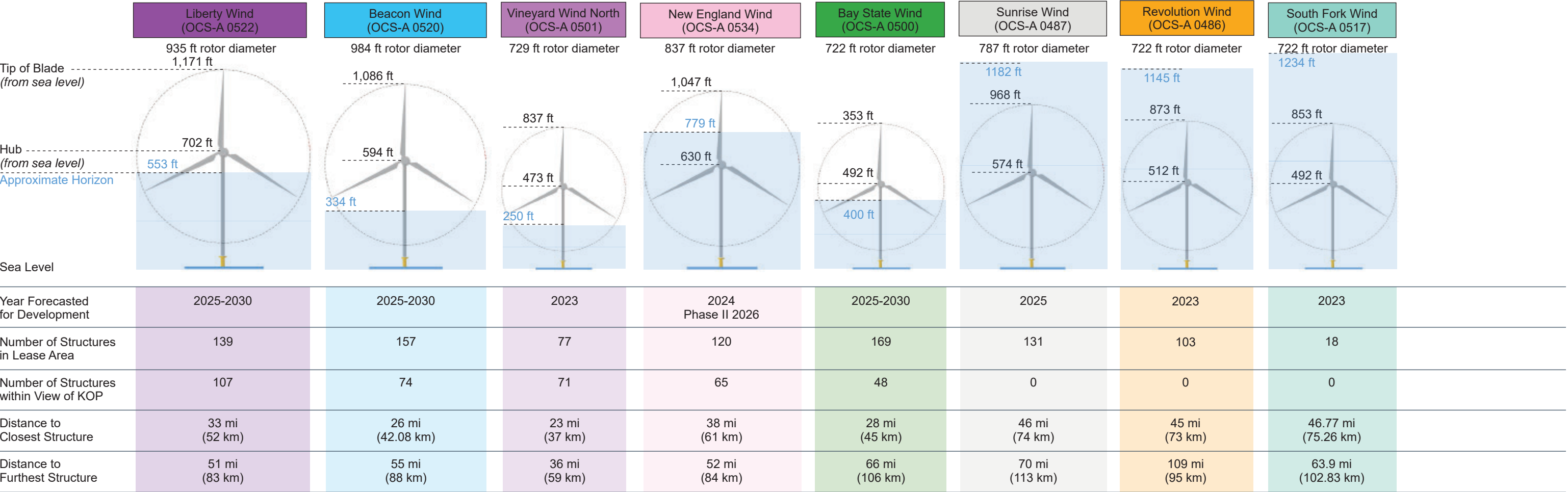
Camera Elevation: 6.5 ft / 1.7 m
Nikon D4
Nikon 50mm
ISO: 100
Fstop: f/7.1
Shutter: 1/1250 sec
Exposure bias: -0.7 step

SIMULATED CONDITIONS

2

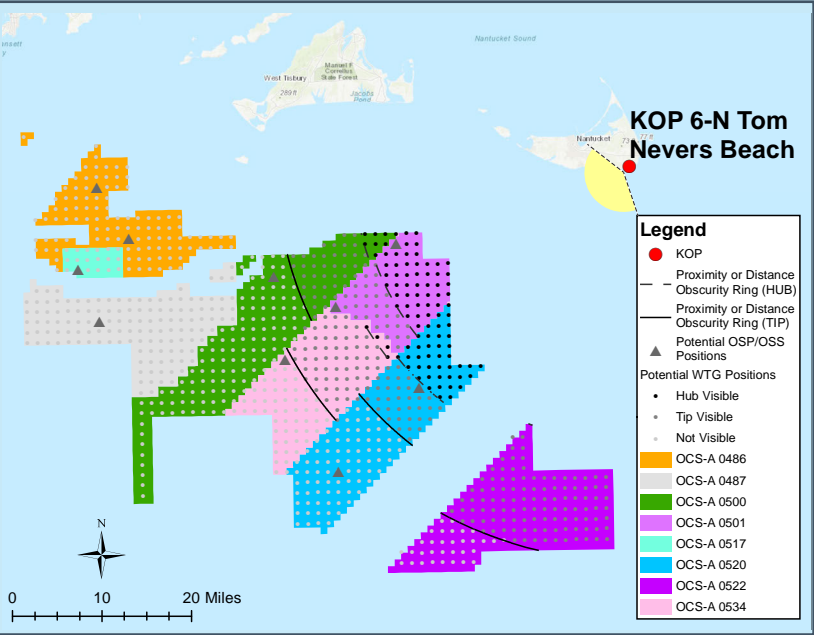


VISIBILTY OF CLOSEST TURBINES





REGIONAL MAP



SITE MAP



PROJECT VIEW

Horizontal Field of View: 124°	Furthest Visible WTG: 70 mi / 113 km
Vertical Field of View: 40°	Potential Number of WTGs Visible: 371
Nearest WTG: 23 mi / 37 km	Potential Number of WTGs Not Visible: 543

ENVIRONMENT

Temperature: 68° F
Humidity: 90%
Wind Dir & Speed: S 10 mph
Weather Condition: Partly Cloudy

PHOTOGRAPH AND SITE

Time of photograph: 8:44AM	Viewing direction: South (242°)
Date of photograph: 6-27-20	Latitude: 41.244577°N
L/SCA: Ocean Beach, Open Ocean, Dunes	Longitude: 69.985046°W
	Lighting Direction: Sidelit diffused

CAMERA

Camera Elevation: 6.5 ft / 1.7 m
Nikon D4
Nikon 50mm
ISO: 100
Fstop: f/7.1
Shutter: 1/1250 sec
Exposure bias: -0.7 step



MATCH
LINE A

MATCH
LINE AA

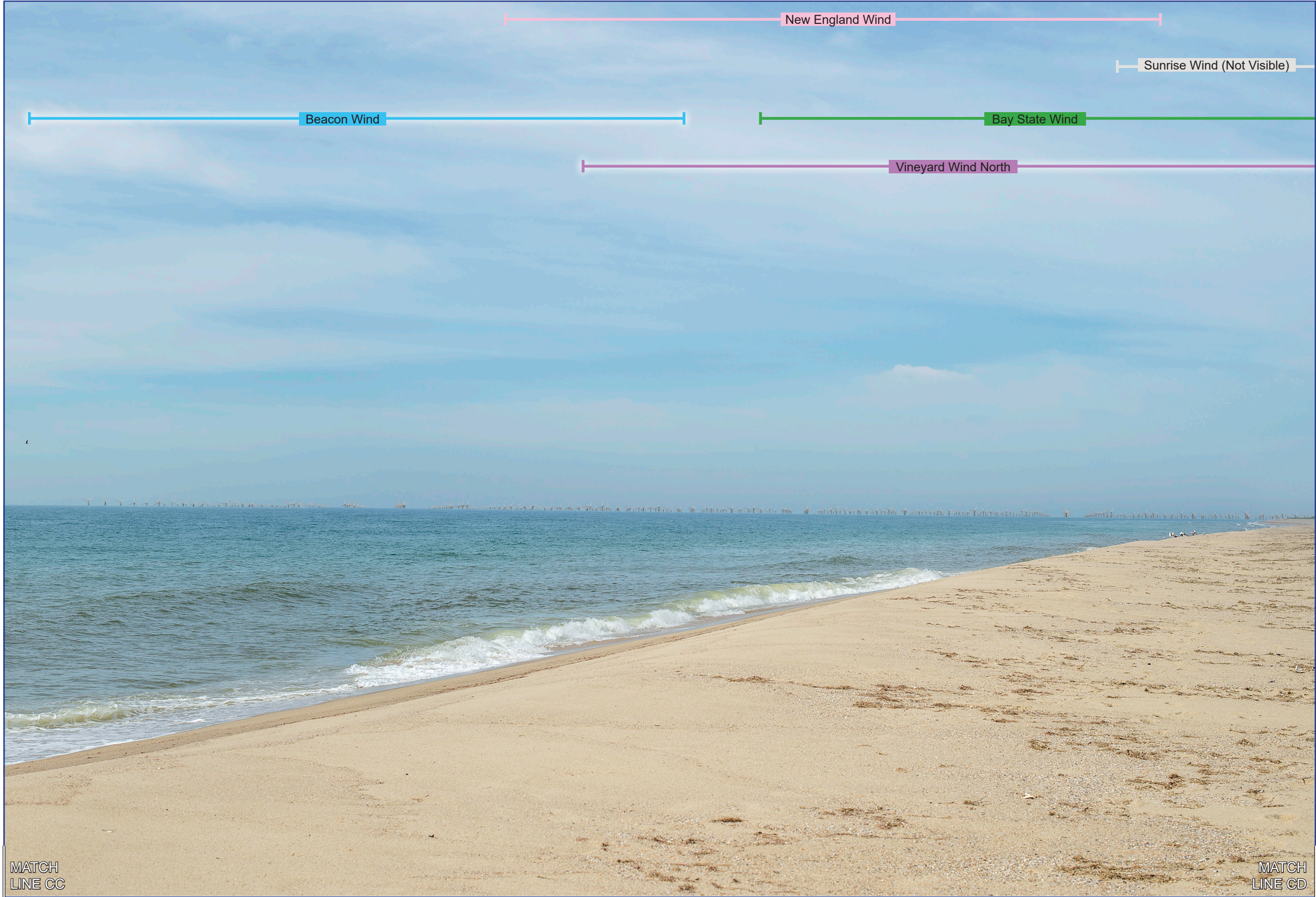
MATCH
LINE AB

MATCH
LINE BB

The page should viewed at 11" x 17" approximately 15" from viewer's eyes .



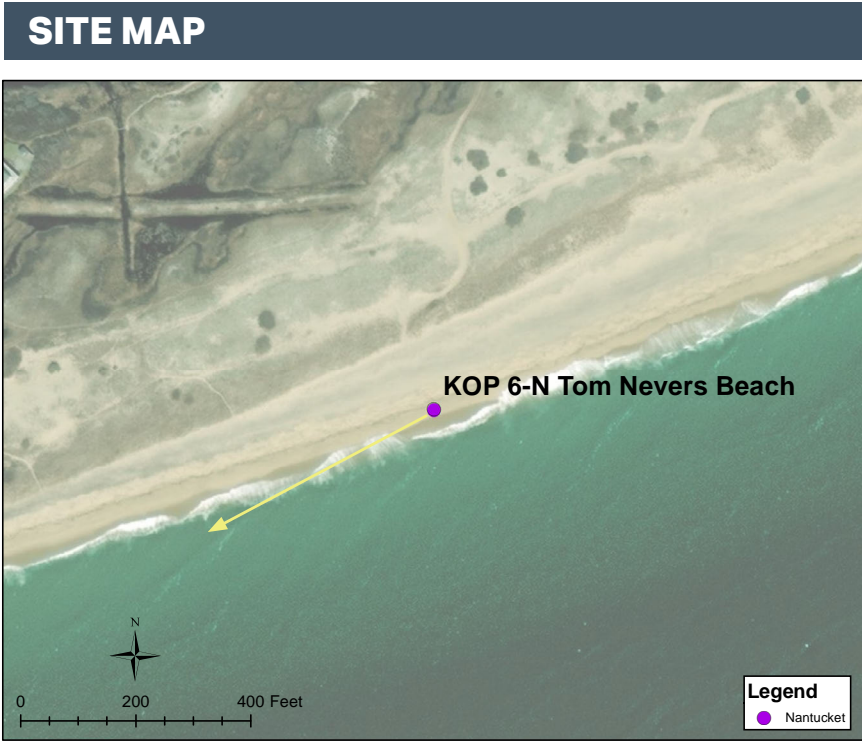
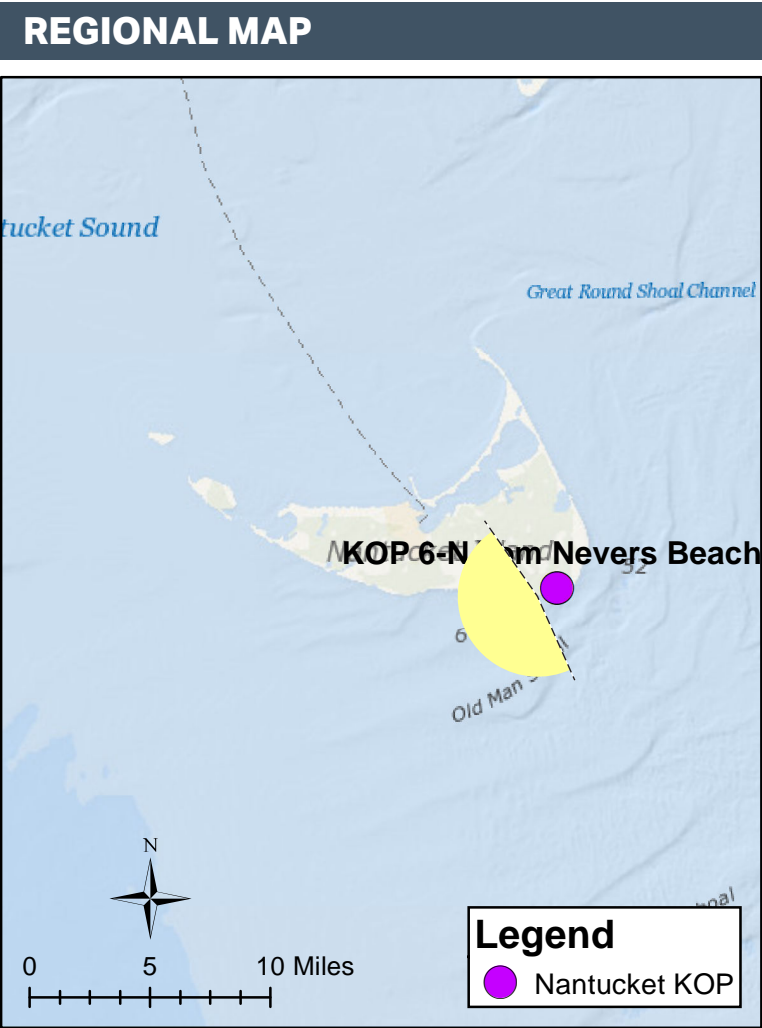
The page should viewed at 11" x 17" approximately 15" from viewer's eyes .



The page should viewed at 11" x 17" approximately 15" from viewer's eyes .

PANORAMIC PHOTOGRAPH - EXISTING CONDITIONS

1



MATCH LINES define visual simulation detail areas

- A-B is shown on pages 2-3
- AA-AB is shown on page 4
- BB-BC is shown on page 5
- CC-CD is shown on page 6

PROJECT VIEW

Horizontal Field of View: 169°	Furthest Visible WTG: 54 mi / 87 km
Vertical Field of View: 40°	Potential Number of Structures Visible: 92
Nearest WTG: 26 mi / 43 km	Potential Number of Structures Not Visible: 57

PHOTOGRAPH AND SITE

Time of photograph: 8:44AM	Viewing direction: South (242°)
Date of photograph: 6-27-20	Latitude: 41.244577°N
L/SCA: Ocean Beach, Open Ocean, Dunes	Longitude: 69.985046°W
	Lighting Direction: Sidelit diffused

ENVIRONMENT

Temperature: 68° F
Humidity: 90%
Wind Dir & Speed: S 10 mph
Weather Condition: Partly Cloudy

CAMERA

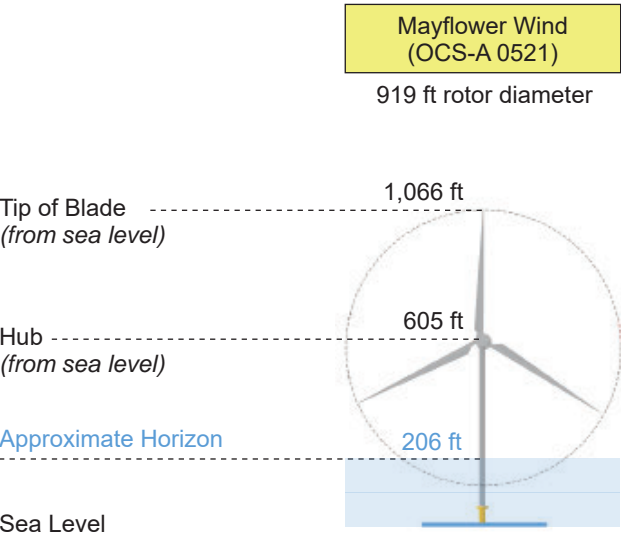
Camera Elevation: 6.5 ft / 1.7 m
Nikon D4
Nikon 50mm
ISO: 100
Fstop: f/7.1
Shutter: 1/1250 sec
Exposure bias: -0.7 step

SIMULATED CONDITIONS

2



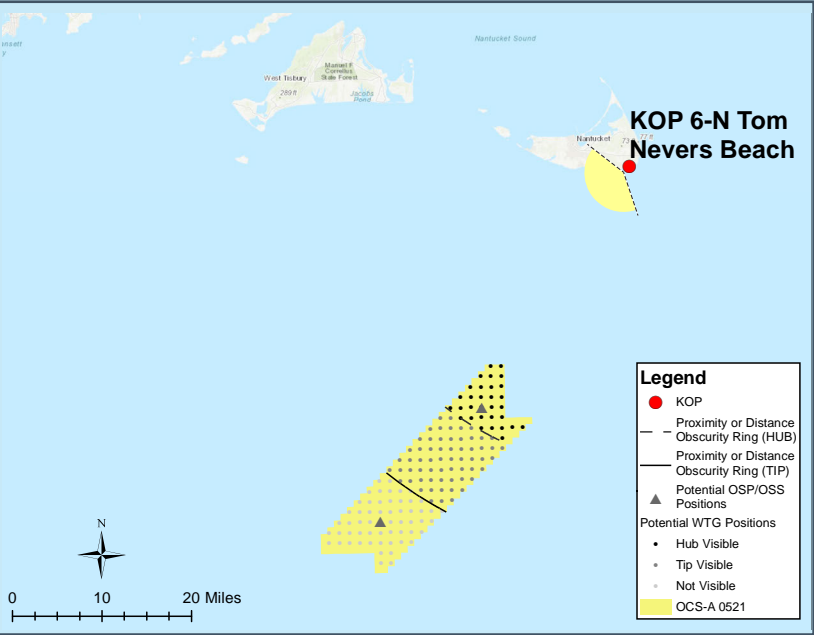
VISIBILTY OF CLOSEST TURBINES



Year Forecasted for Development	2025
Number of Structures in Lease Area	149
Number of Structures within View of KOP	92
Distance to Closest Structure	26 mi (43 km)
Distance to Furthest Structure	54 mi (87 km)



REGIONAL MAP



SITE MAP



PROJECT VIEW

Horizontal Field of View: 124°	Furthest Visible WTG: 54 mi / 87 km
Vertical Field of View: 40°	Potential Number of WTGs Visible: 92
Nearest WTG: 26 mi / 43 km	Potential Number of WTGs Not Visible: 57

ENVIRONMENT

Temperature: 68° F
Humidity: 90%
Wind Dir & Speed: S 10 mph
Weather Condition: Partly Cloudy

PHOTOGRAPH AND SITE

Time of photograph: 8:44AM	Viewing direction: South (242°)
Date of photograph: 6-27-20	Latitude: 41.244577°N
L/SCA: Ocean Beach, Open Ocean, Dunes	Longitude: 69.985046°W
	Lighting Direction: Sidelit diffused

CAMERA

Camera Elevation: 6.5 ft / 1.7 m
Nikon D4
Nikon 50mm
ISO: 100
Fstop: f/7.1
Shutter: 1/1250 sec
Exposure bias: -0.7 step



MATCH
LINE A

MATCH
LINE AA

MATCH
LINE AB

MATCH
LINE BB

The page should viewed at 11" x 17" approximately 15" from viewer's eyes .



The page should viewed at 11" x 17" approximately 15" from viewer's eyes .



The page should viewed at 11" x 17" approximately 15" from viewer's eyes .

PANORAMIC PHOTOGRAPH - EXISTING CONDITIONS

1



MATCH LINES define visual simulation detail areas

- A-B is shown on pages 2-3
- AA-AB is shown on page 4
- BB-BC is shown on page 5
- CC-CD is shown on page 6

PROJECT VIEW

Horizontal Field of View: 193.2°	Furthest Visible WTG: 46 mi / 74 km
Vertical Field of View: 40°	Potential Number of Structures Visible: 577
Nearest WTG: 16 mi / 26 km	Potential Number of Structures Not Visible: 337

PHOTOGRAPH AND SITE

Time of photograph: 1:25PM	Viewing direction: South (226°)
Date of photograph: 8-20-20	Latitude: 41.252490°N
L/SCA: Open Ocean, Ocean Beach, Dunes, Salt Ponds/Tidal Marsh, Residential	Longitude: 70.154080°W
	Lighting Direction: Backlit diffused

ENVIRONMENT

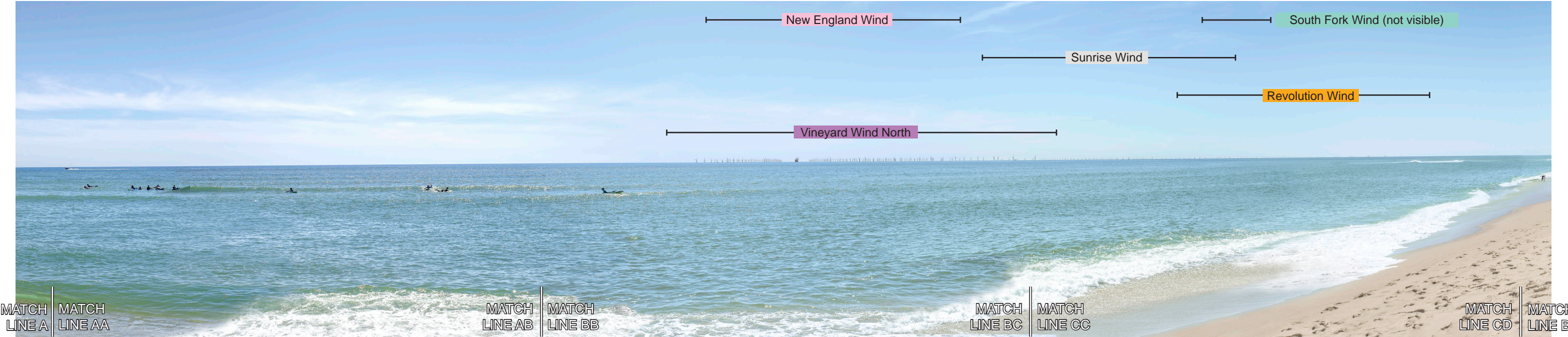
Temperature: 61° F
Humidity: 90%
Wind Dir & Speed: N 6 mph
Weather Condition: Partly Cloudy

CAMERA

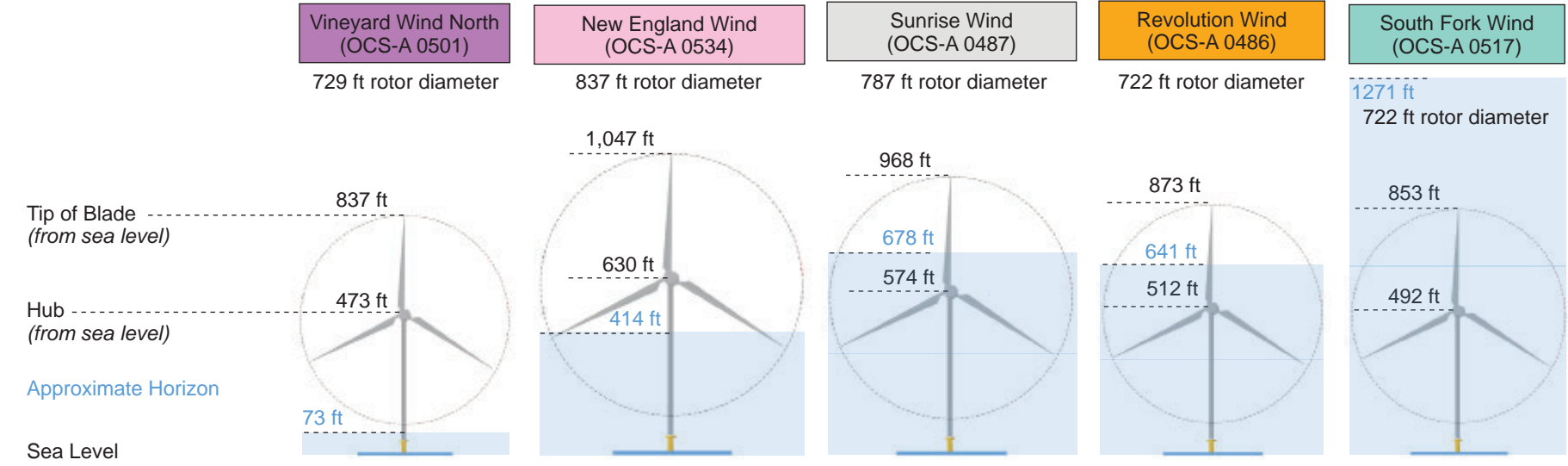
Camera Elevation: 23.0 ft / 7.0 m
Nikon D4
Nikon 50mm
ISO: 100
Fstop: f/7.1
Shutter: 1/1250 sec
Exposure bias: -0.7 step

SIMULATED CONDITIONS

2



VISIBILTY OF CLOSEST TURBINES



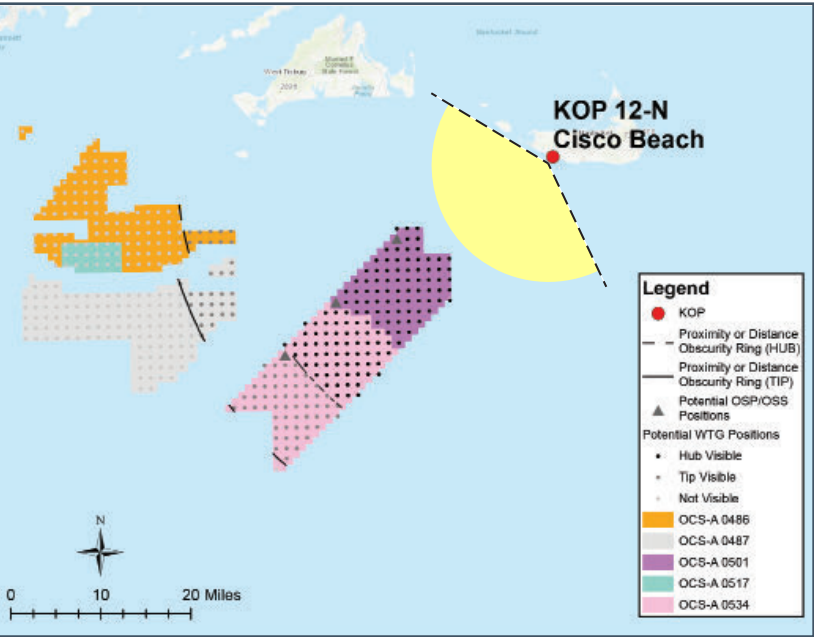
Year Forecasted for Development	2023	2024 Phase II 2026	2025	2023	2023	
Number of Structures in Lease Area	77	120	131	103	18	
Number of Structures within View of KOP	77	118	22	10	0	
Distance to Closest Structure	16 mi (26 km)	31 mi (49 km)	38 mi (61 km)	38 mi (61 km)	49 mi (79.46 km)	
Distance to Furthest Structure	29 mi (47 km)	48 mi (78 km)	62 mi (100 km)	59 mi (95 km)	56 mi (89 km)	

SIMULATED CONDITIONS

3



REGIONAL MAP



SITE MAP



PROJECT VIEW

Horizontal Field of View: 124°	Furthest Visible WTG: 46 mi / 74 km
Vertical Field of View: 40°	Potential Number of Structures Visible: 577
Nearest WTG: 16 mi / 26 km	Potential Number of Structures Not Visible: 337

PHOTOGRAPH AND SITE

Time of photograph: 1:25PM	Viewing direction: South (226°)
Date of photograph: 8-20-20	Latitude: 41.252490°N
L/SCA: Open Ocean, Ocean Beach, Dunes, Salt Ponds/Tidal Marsh, Residential	Longitude: 70.154080°W
	Lighting Direction: Backlit diffused

ENVIRONMENT

Temperature: 61° F
Humidity: 90%
Wind Dir & Speed: N 6 mph
Weather Condition: Partly Cloudy

CAMERA

Camera Elevation: 23.0 ft / 7.0 m
Nikon D4
Nikon 50mm
ISO: 100
Fstop: f/7.1
Shutter: 1/1250 sec
Exposure bias: -0.7 step



The page should viewed at 11" x 17" approximately 15" from viewer's eyes .



The page should viewed at 11" x 17" approximately 15" from viewer's eyes .



MATCH
LINE BC

MATCH
LINE CC

MATCH
LINE CD

MATCH
LINE B

The page should viewed at 11" x 17" approximately 15" from viewer's eyes .

PANORAMIC PHOTOGRAPH - EXISTING CONDITIONS

1



MATCH LINES define visual simulation detail areas

- A-B is shown on pages 2-3
- AA-AB is shown on page 4
- BB-BC is shown on page 5
- CC-CD is shown on page 6

PROJECT VIEW

Horizontal Field of View: 193°	Furthest Visible WTG: 46 mi / 74 km
Vertical Field of View: 40°	Potential Number of Structures Visible: 577
Nearest WTG: 16 mi / 26 km	Potential Number of Structures Not Visible: 337

PHOTOGRAPH AND SITE

Time of photograph: 1:25PM	Viewing direction: South (226°)
Date of photograph: 8-20-20	Latitude: 41.252490°N
L/SCA: Open Ocean, Ocean Beach, Dunes, Salt Ponds/Tidal Marsh, Residential	Longitude: 70.154080°W
	Lighting Direction: Backlit diffused

ENVIRONMENT

Temperature: 61° F
Humidity: 90%
Wind Dir & Speed: N 6 mph
Weather Condition: Partly Cloudy

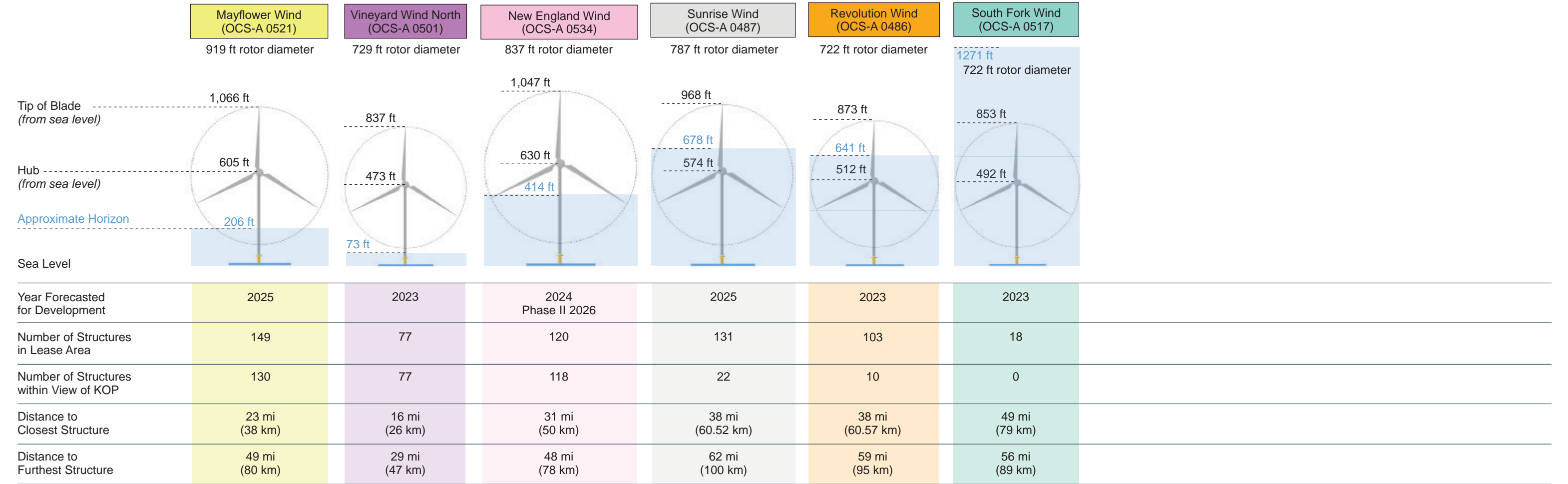
CAMERA

Camera Elevation: 23.0 ft / 7.0 m
Nikon D4
Nikon 50mm
ISO: 100
Fstop: f/7.1
Shutter: 1/1250 sec
Exposure bias: -0.7 step

SIMULATED CONDITIONS2

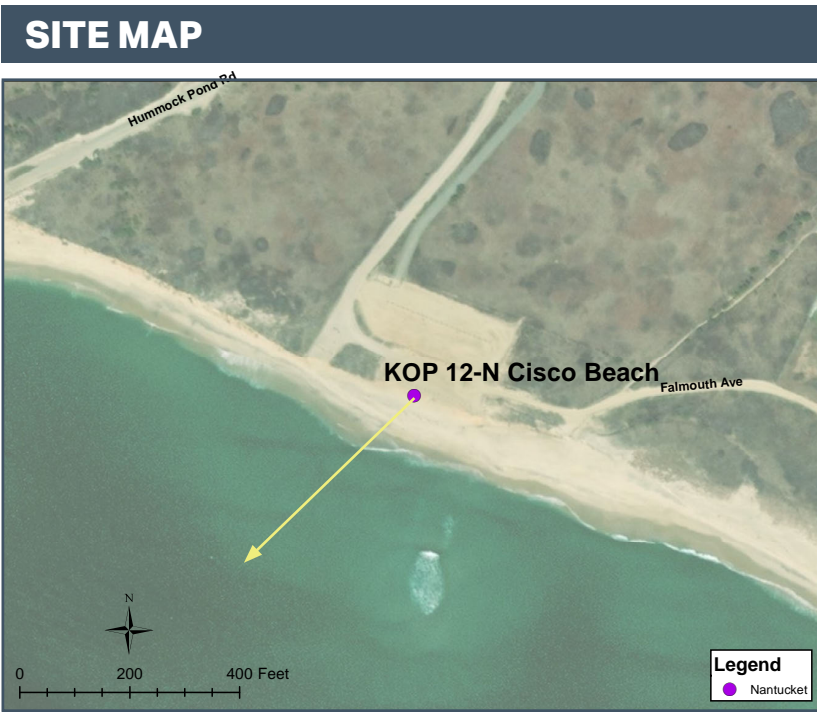
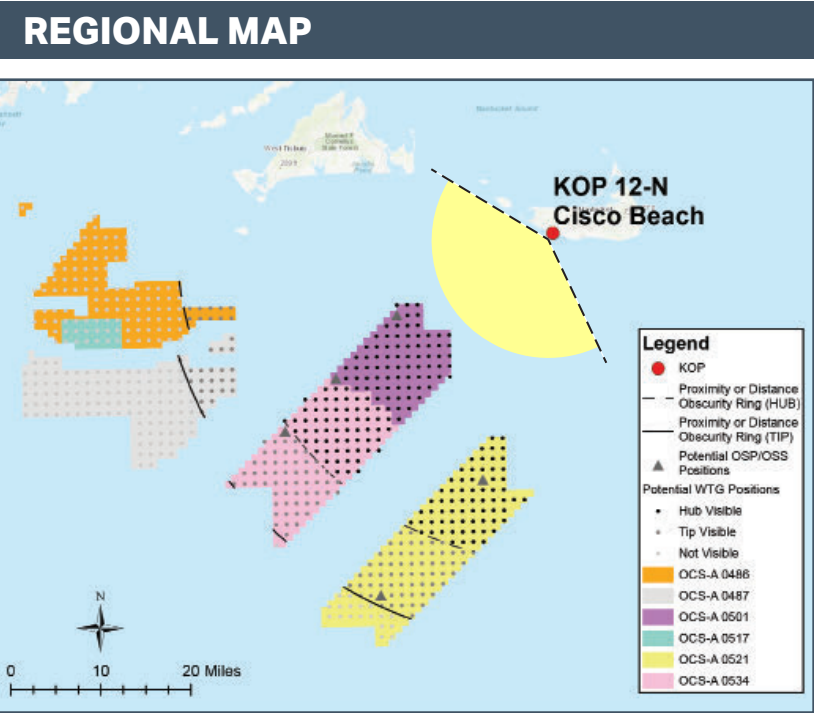


VISIBILTY OF CLOSEST TURBINES



SIMULATED CONDITIONS

3



PROJECT VIEW

Horizontal Field of View: 124°	Furthest Visible WTG: 46 mi / 74 km
Vertical Field of View: 40°	Potential Number of Structures Visible: 577
Nearest WTG: 16.2 mi / 26 km	Potential Number of Structures Not Visible: 337

ENVIRONMENT

Temperature: 61° F
Humidity: 90%
Wind Dir & Speed: N 6 mph
Weather Condition: Partly Cloudy

PHOTOGRAPH AND SITE

Time of photograph: 1:25PM	Viewing direction: South (226°)
Date of photograph: 8-20-20	Latitude: 41.252490°N
L/SCA: Open Ocean, Ocean Beach, Dunes, Salt Ponds/Tidal Marsh, Residential	Longitude: 70.154080°W
	Lighting Direction: Backlit diffused

CAMERA

Camera Elevation: 23.0 ft / 7.0 m
Nikon D4
Nikon 50mm
ISO: 100
Fstop: f/7.1
Shutter: 1/1250 sec
Exposure bias: -0.7 step



The page should viewed at 11" x 17" approximately 15" from viewer's eyes .



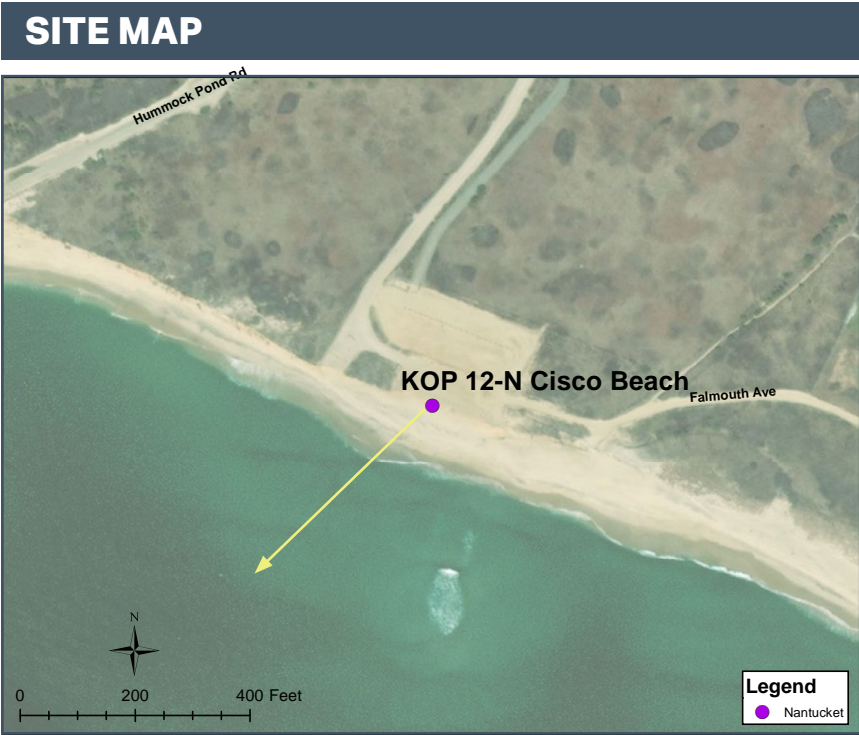
The page should viewed at 11" x 17" approximately 15" from viewer's eyes .



The page should viewed at 11" x 17" approximately 15" from viewer's eyes .

PANORAMIC PHOTOGRAPH - EXISTING CONDITIONS

1



MATCH LINES define visual simulation detail areas

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BB-BC is shown on page 5

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PROJECT VIEW

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ENVIRONMENT

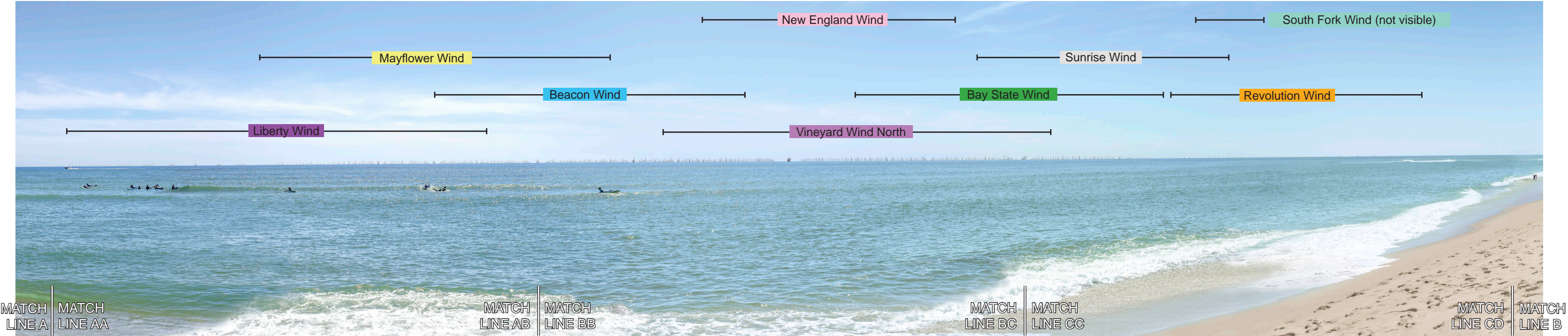
Temperature: 61° F
Humidity: 90%
Wind Dir & Speed: N 6 mph
Weather Condition: Partly Cloudy

CAMERA

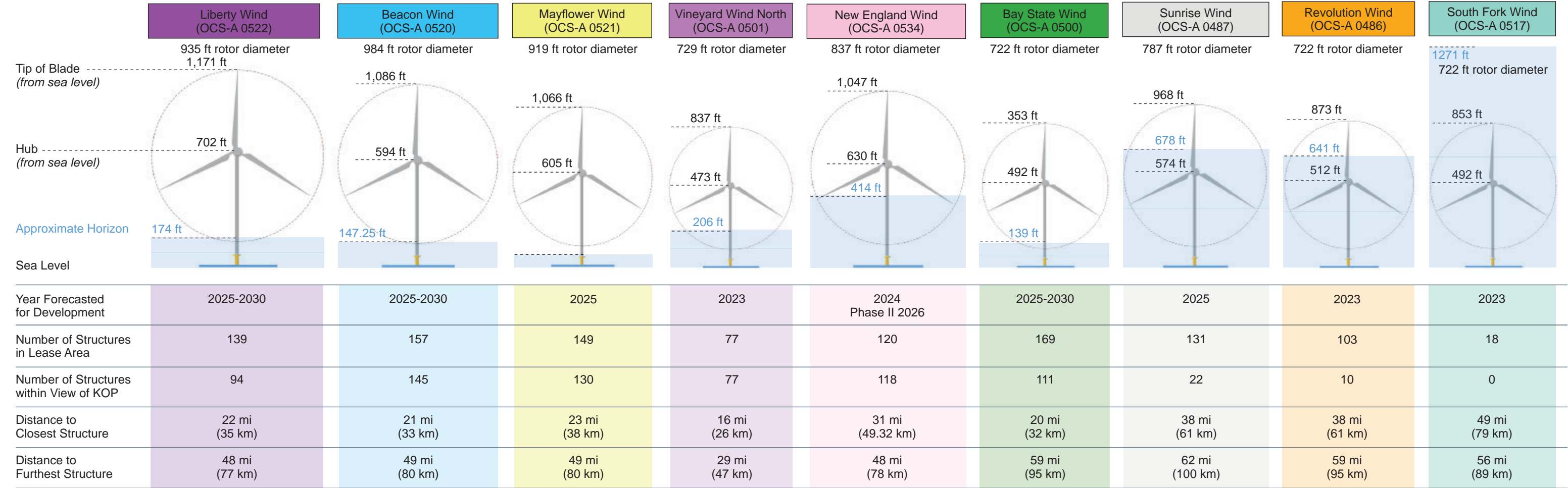
Camera Elevation: 23.0 ft / 7.0 m
Nikon D4
Nikon 50mm
ISO: 100
Fstop: f/7.1
Shutter: 1/1250 sec
Exposure bias: -0.7 step

SIMULATED CONDITIONS

2



VISIBILTY OF CLOSEST TURBINES

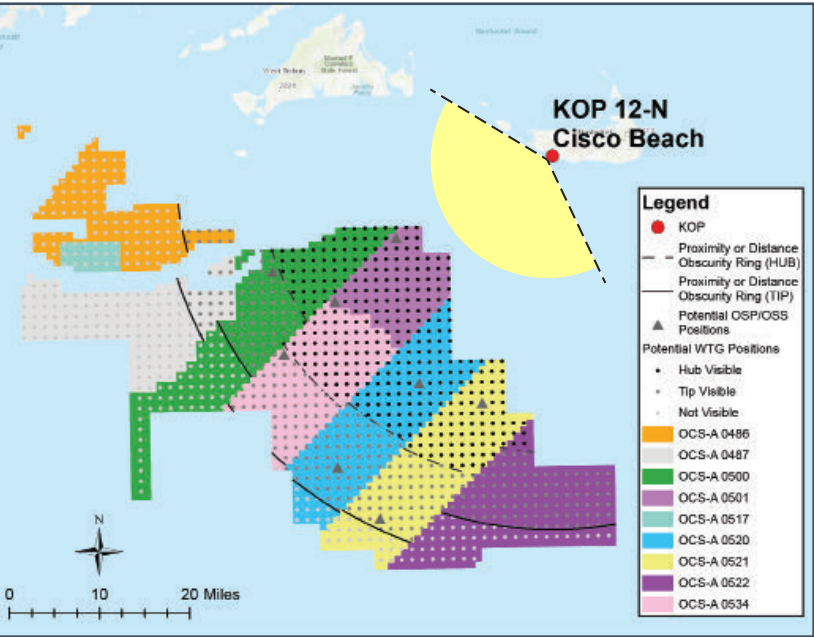


SIMULATED CONDITIONS

3



REGIONAL MAP



SITE MAP



PROJECT VIEW

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Vertical Field of View: 40°	Potential Number of Structures Visible: 577
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Nikon 50mm
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MATCH
LINE A

MATCH
LINE AA

MATCH
LINE AB

MATCH
LINE BB

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The page should viewed at 11" x 17" approximately 15" from viewer's eyes .



MATCH
LINE BC

MATCH
LINE CC

MATCH
LINE CD

MATCH
LINE B

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PANORAMIC PHOTOGRAPH - EXISTING CONDITIONS

1



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ENVIRONMENT

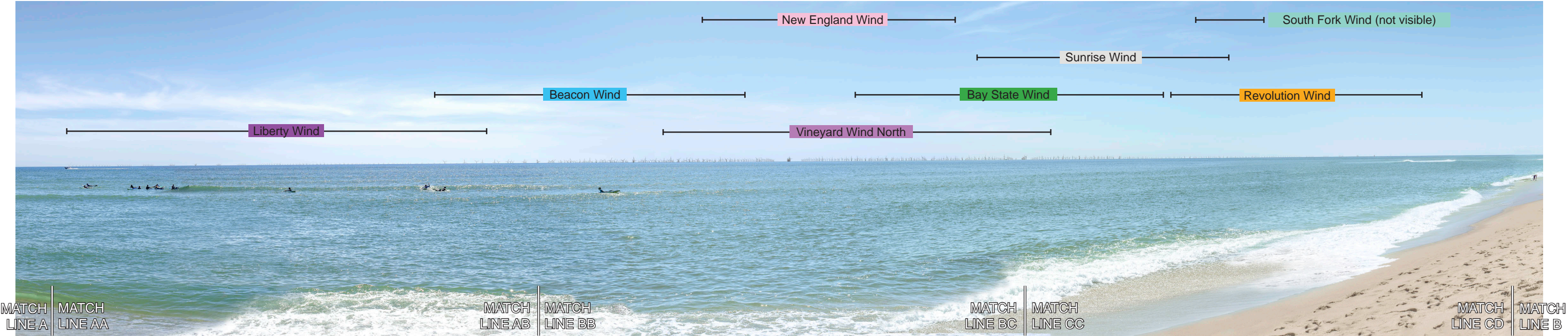
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Humidity: 90%
Wind Dir & Speed: N 6 mph
Weather Condition: Partly Cloudy

CAMERA

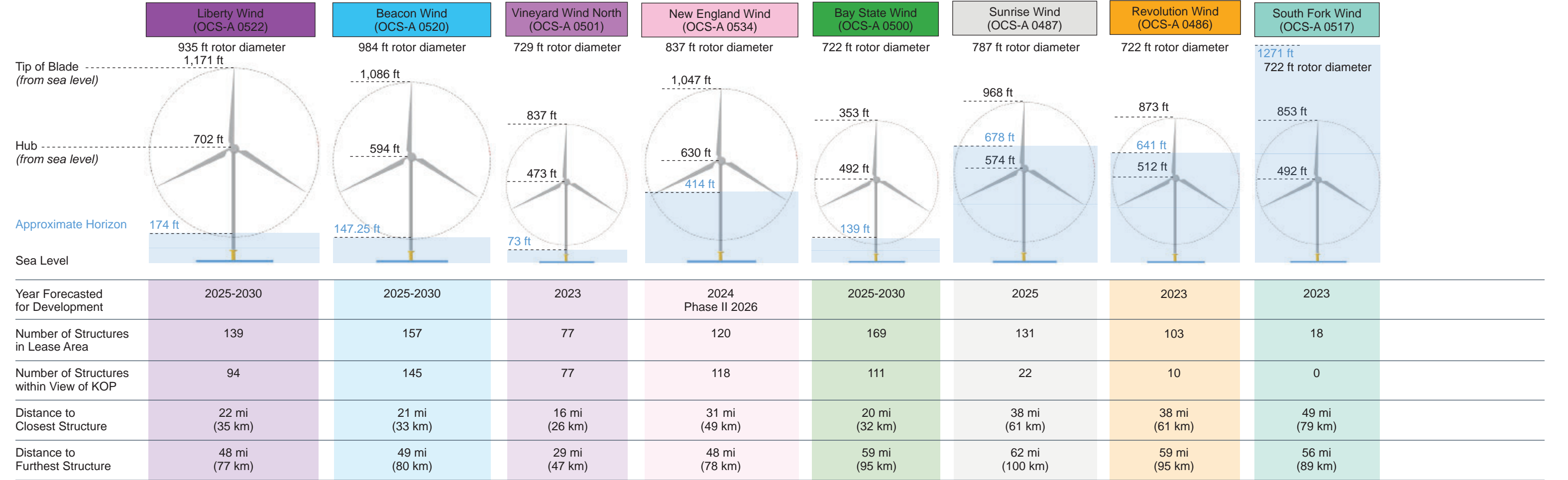
Camera Elevation: 23.0 ft / 7.0 m
Nikon D4
Nikon 50mm
ISO: 100
Fstop: f/7.1
Shutter: 1/1250 sec
Exposure bias: -0.7 step

SIMULATED CONDITIONS

2

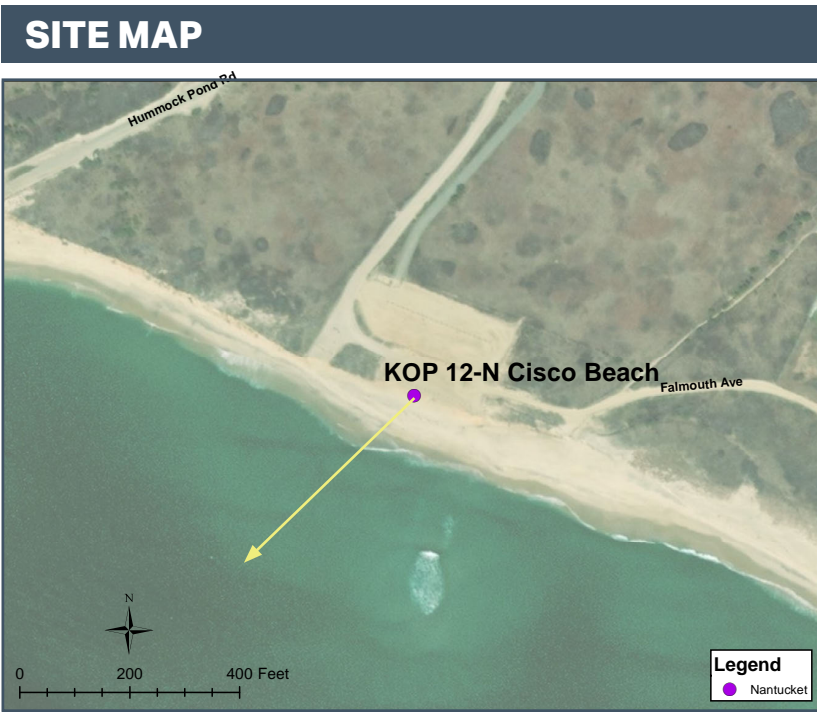
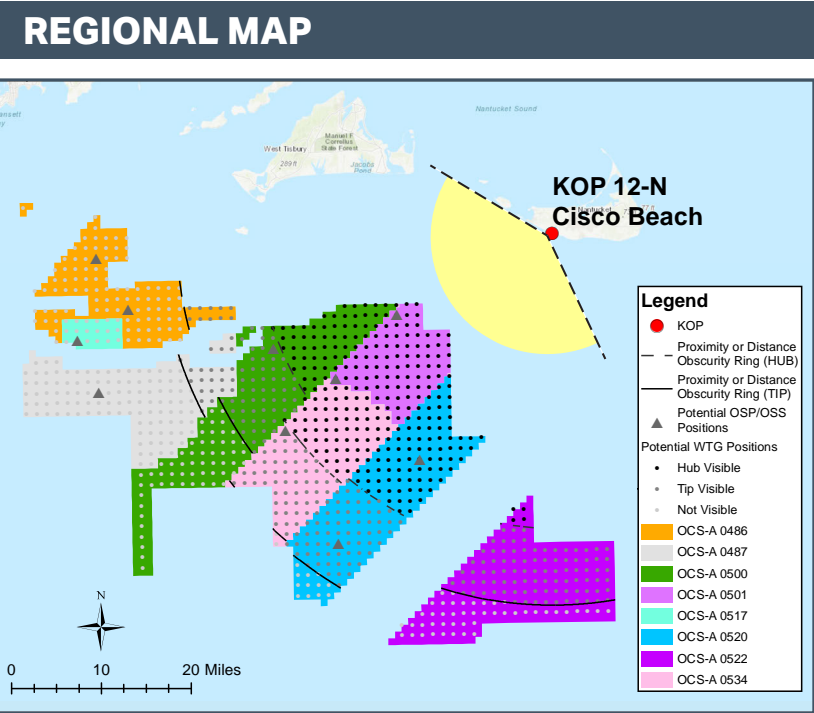


VISIBILTY OF CLOSEST TURBINES



SIMULATED CONDITIONS

3



PROJECT VIEW

Horizontal Field of View: 124°	Furthest Visible WTG: 46 mi / 74 km
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Nikon 50mm
ISO: 100
Fstop: f/7.1
Shutter: 1/1250 sec
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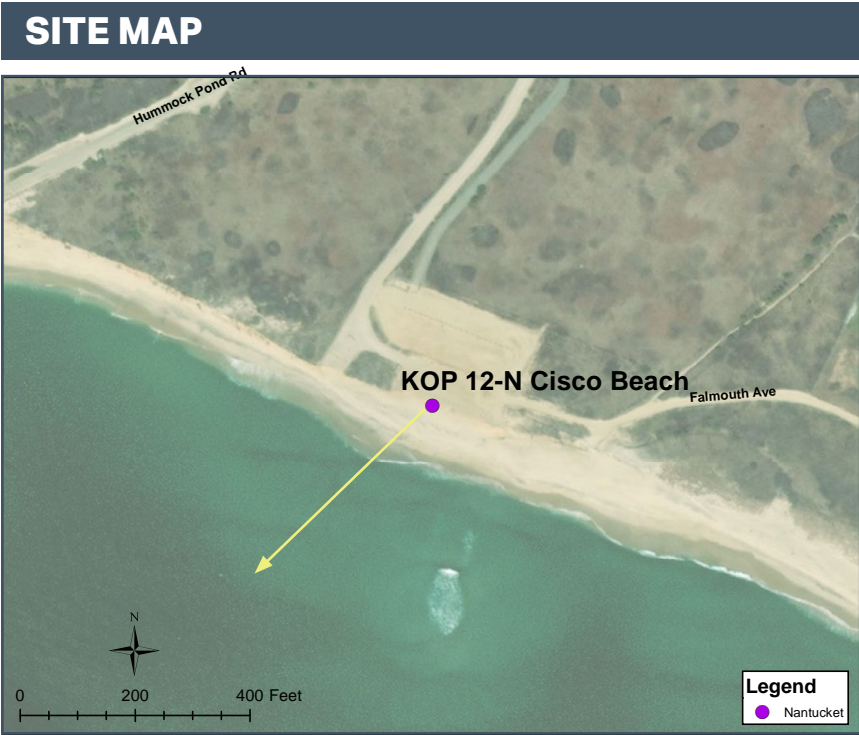
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CAMERA

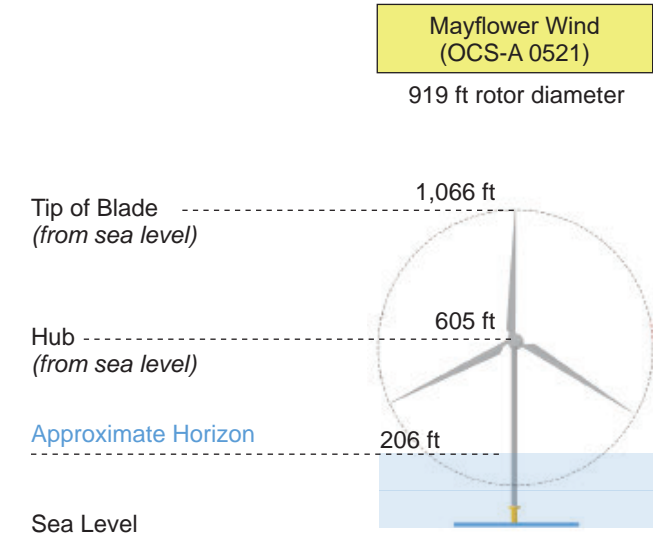
Camera Elevation: 23.0 ft / 7.0 m
Nikon D4
Nikon 50mm
ISO: 100
Fstop: f/7.1
Shutter: 1/1250 sec
Exposure bias: -0.7 step

SIMULATED CONDITIONS

2



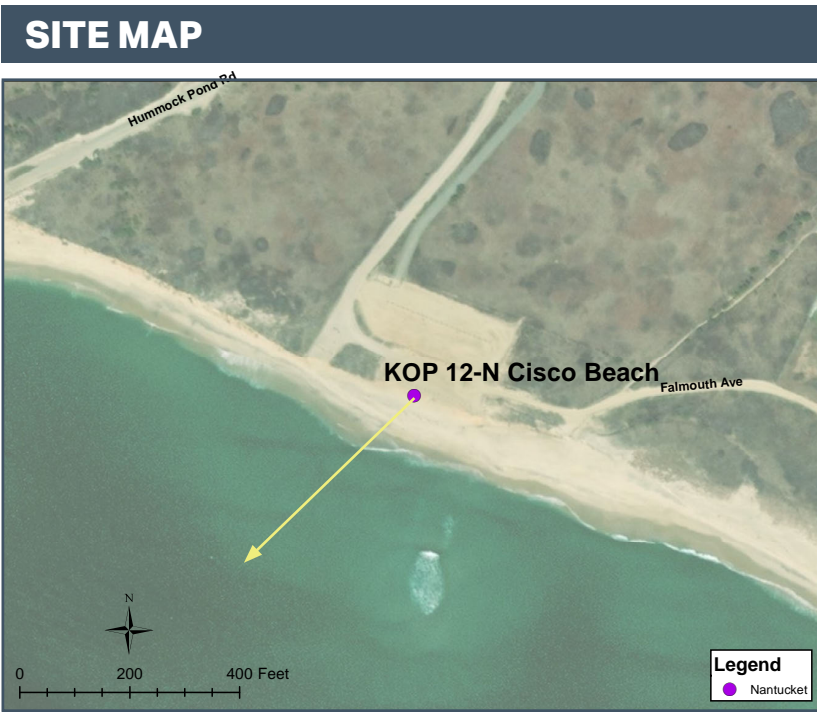
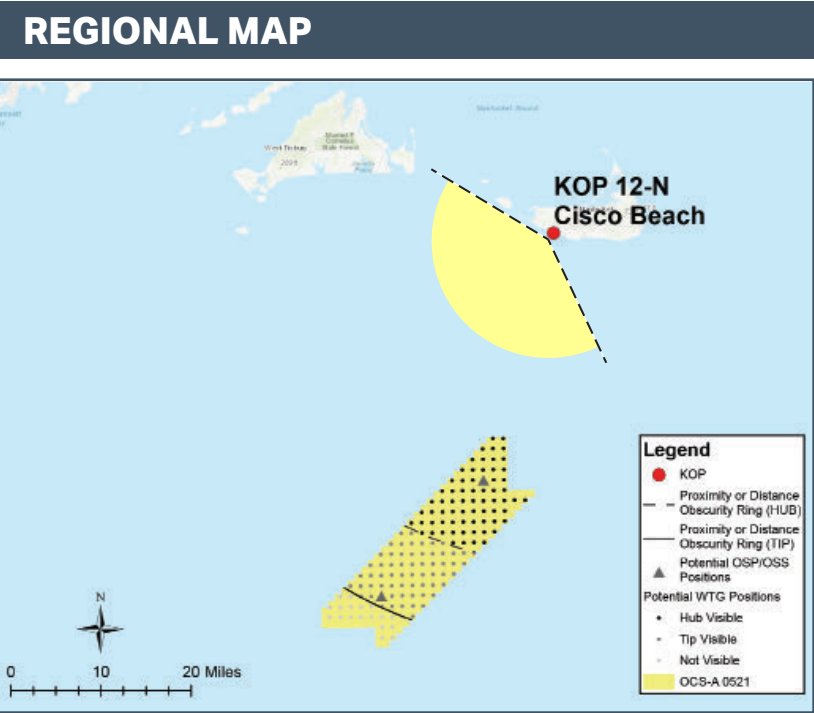
VISIBILTY OF CLOSEST TURBINES



Year Forecasted for Development	2025	
Number of Structures in Lease Area	149	
Number of Structures within View of KOP	130	
Distance to Closest Structure	23 mi (38 km)	
Distance to Furthest Structure	49 mi (80 km)	

SIMULATED CONDITIONS

3



PROJECT VIEW	
Horizontal Field of View: 124°	Furthest Visible WTG: 46 mi / 74 km
Vertical Field of View: 40°	Potential Number of Structures Visible: 577
Nearest WTG: 16 mi / 26 km	Potential Number of Structures Not Visible: 337

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Temperature: 61° F
Humidity: 90%
Wind Dir & Speed: N 6 mph
Weather Condition: Partly Cloudy

PHOTOGRAPH AND SITE	
Time of photograph: 1:25PM	Viewing direction: South (226°)
Date of photograph: 8-20-20	Latitude: 41.252490°N
L/SCA: Open Ocean, Ocean Beach, Dunes, Salt Ponds/Tidal Marsh, Residential	Longitude: 70.154080°W
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CAMERA
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Nikon D4
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ISO: 100
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LINE CD

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PANORAMIC PHOTOGRAPH - EXISTING CONDITIONS

1



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	Lighting Direction: Backlit diffused

ENVIRONMENT

Temperature: 61° F
Humidity: 90%
Wind Dir & Speed: N 6 mph
Weather Condition: Partly Cloudy

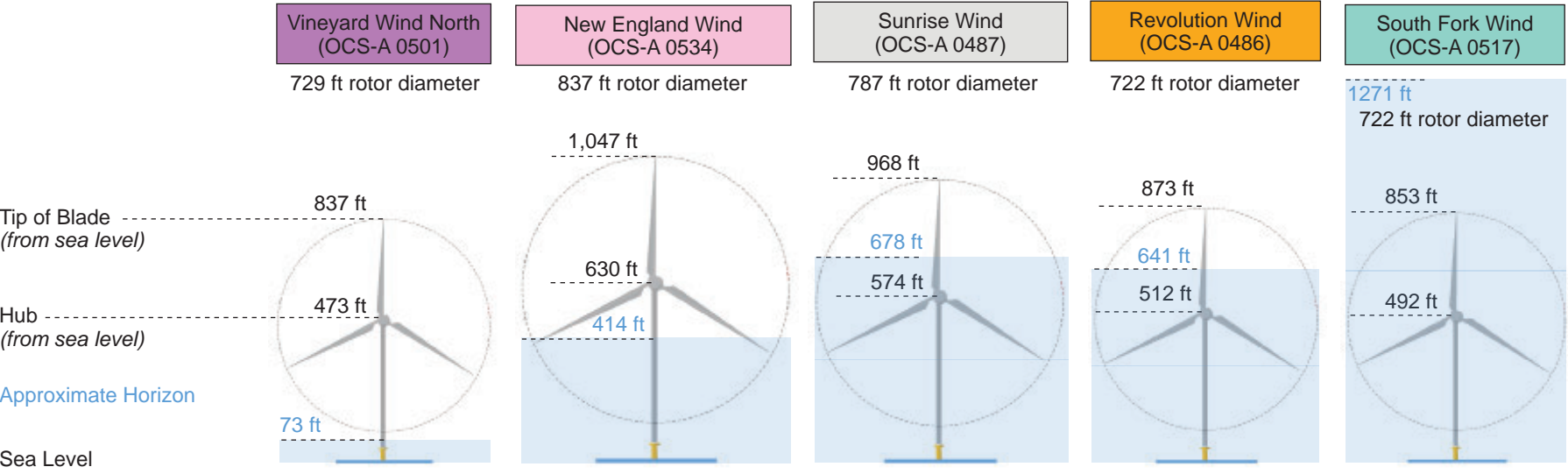
CAMERA

Camera Elevation: 23.0 ft / 7.0 m
Nikon D4
Nikon 50mm
ISO: 100
Fstop: f/7.1
Shutter: 1/1250 sec
Exposure bias: -0.7 step

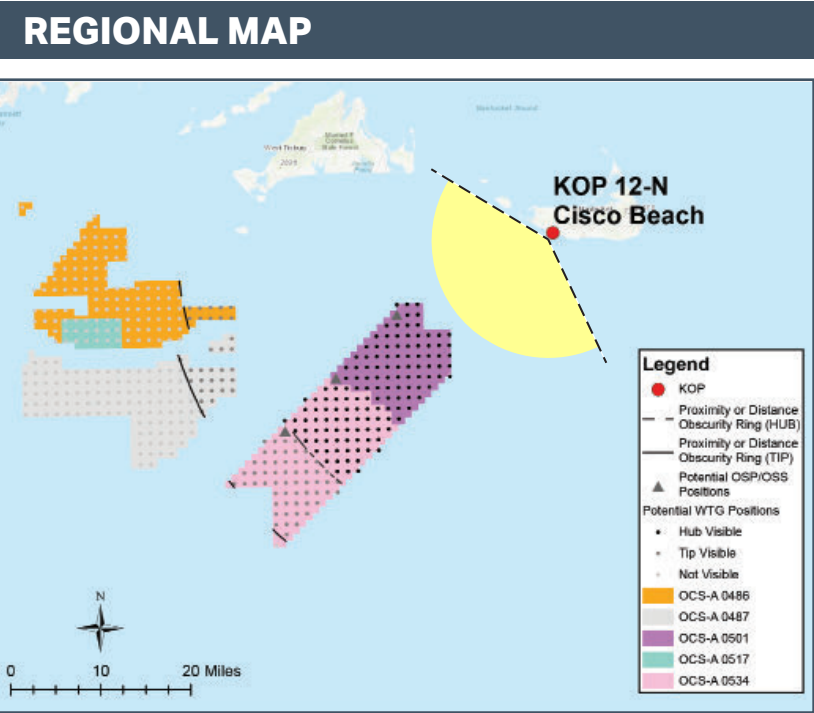
SIMULATED CONDITIONS2



VISIBILTY OF CLOSEST TURBINES



Year Forecasted for Development	2023	2024 Phase II 2026	2025	2023	2023
Number of Structures in Lease Area	77	120	131	103	18
Number of Structures within View of KOP	77	118	22	10	0
Distance to Closest Structure	16 mi (26 km)	31 mi (49 km)	38 mi (61 km)	38 mi (61 km)	49 mi (79 km)
Distance to Furthest Structure	29 mi (47 km)	48 mi (78 km)	62 mi (100 km)	59 mi (95 km)	56 mi (89 km)



PROJECT VIEW

Horizontal Field of View: 124°	Furthest Visible WTG: 46 mi / 74 km
Vertical Field of View: 40°	Potential Number of Structures Visible: 577
Nearest WTG: 16 mi / 26 km	Potential Number of Structures Not Visible: 337

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L/SCA: Open Ocean, Ocean Beach, Dunes, Salt Ponds/Tidal Marsh, Residential	Longitude: 70.154080°W
	Lighting Direction: Backlit diffused

ENVIRONMENT

Temperature: 61° F
Humidity: 90%
Wind Dir & Speed: N 6 mph
Weather Condition: Partly Cloudy

CAMERA

Camera Elevation: 23.0 ft / 7.0 m
Nikon D4
Nikon 50mm
ISO: 100
Fstop: f/7.1
Shutter: 1/1250 sec
Exposure bias: -0.7 step

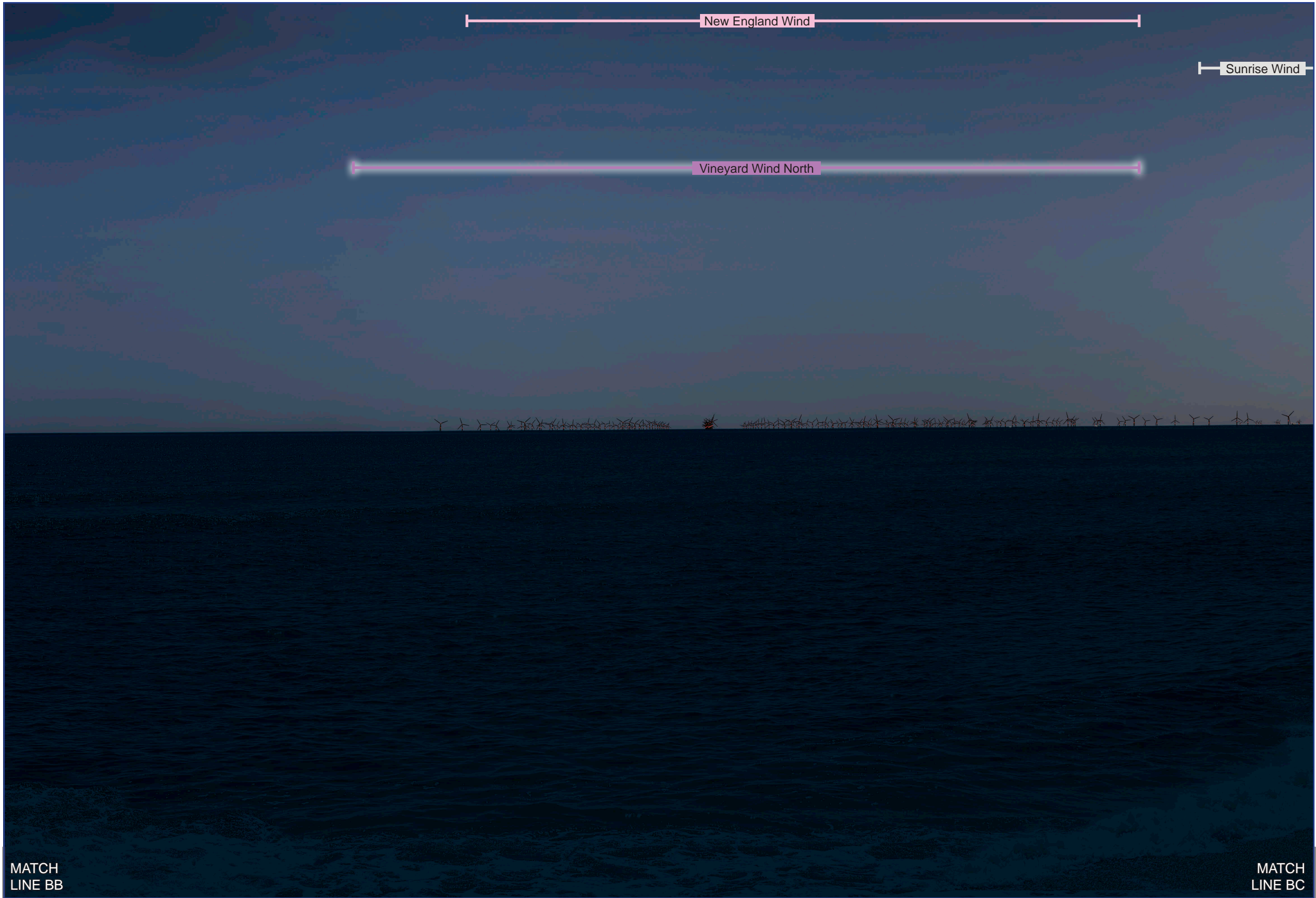


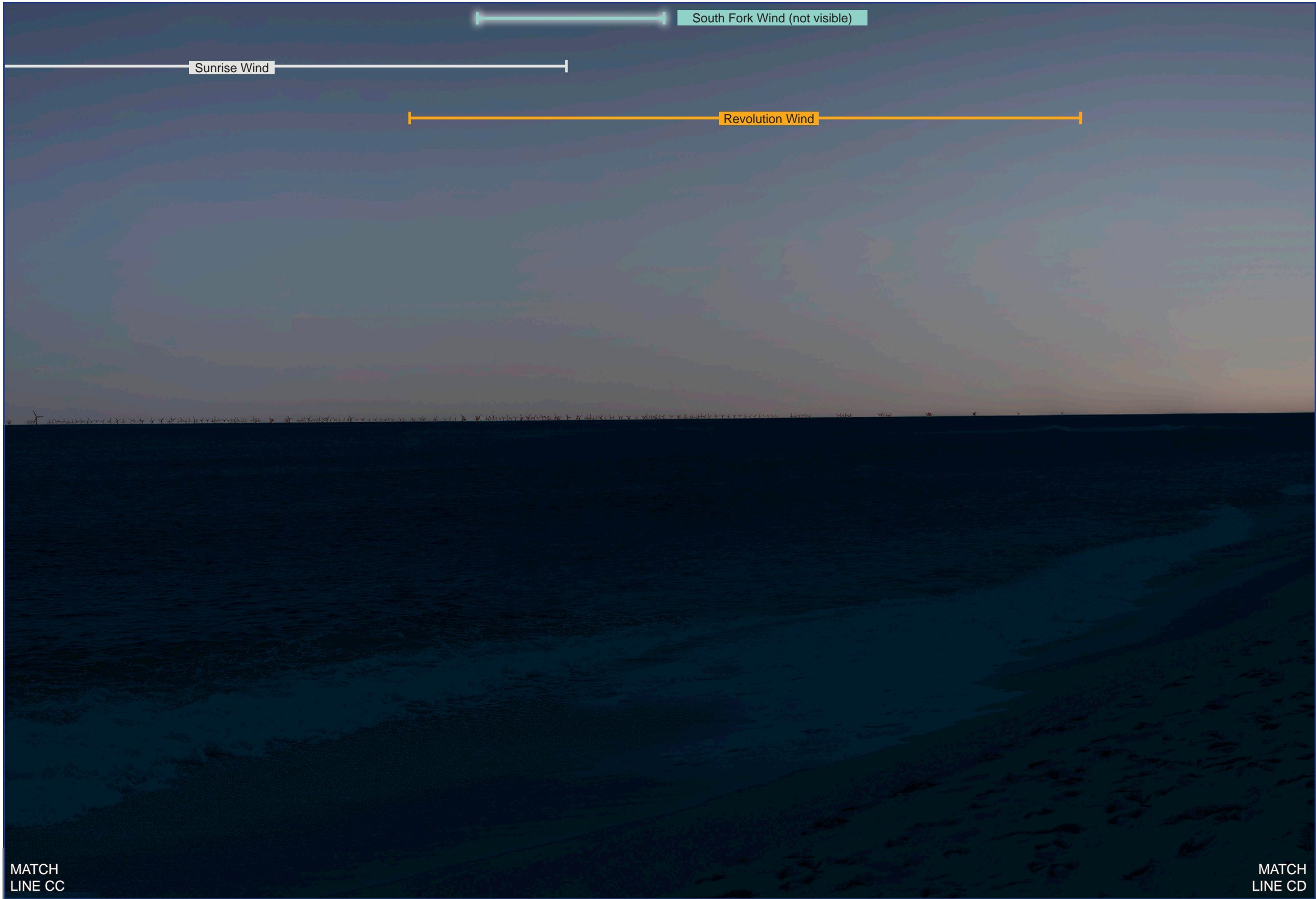
MATCH
LINE A

MATCH
LINE AA

MATCH
LINE AB

MATCH
LINE BB

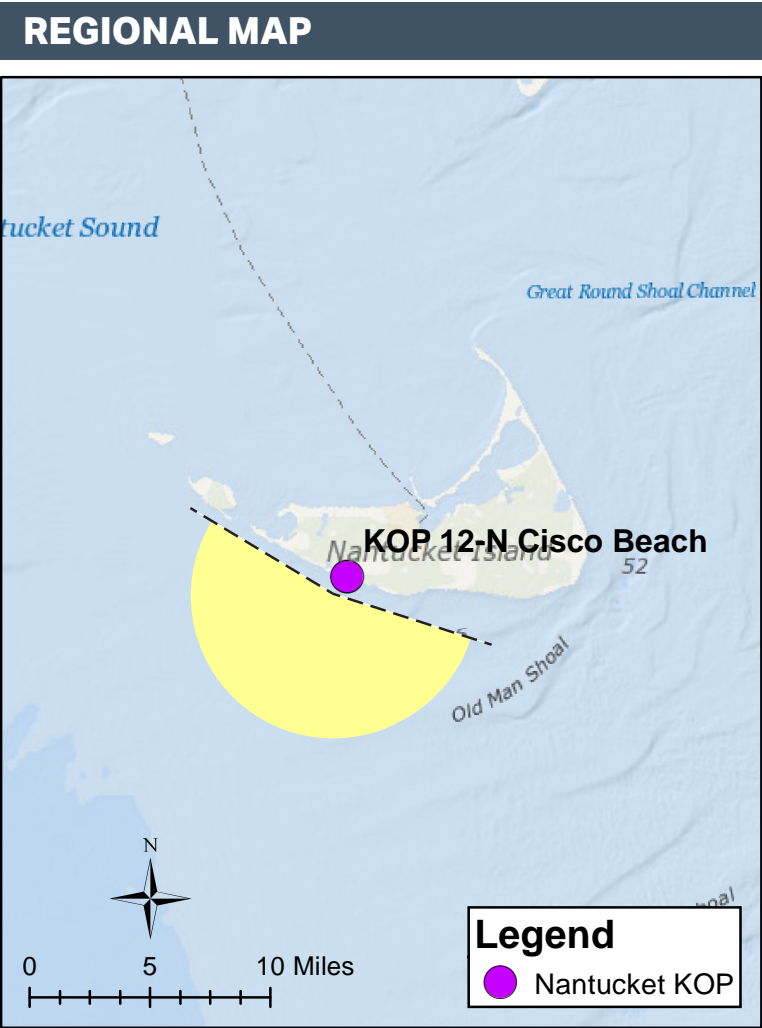




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1



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	Lighting Direction: Backlit diffused

ENVIRONMENT

Temperature: 61° F
Humidity: 90%
Wind Dir & Speed: N 6 mph
Weather Condition: Partly Cloudy

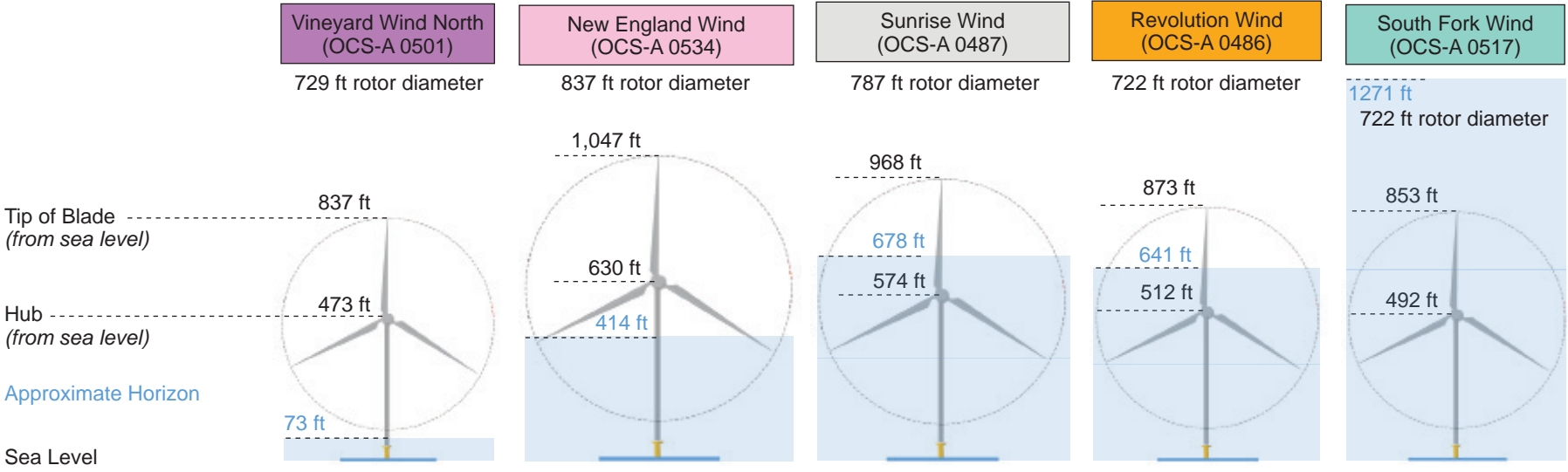
CAMERA

Camera Elevation: 23.0 ft / 7.0 m
Nikon D4
Nikon 50mm
ISO: 100
Fstop: f/7.1
Shutter: 1/1250 sec
Exposure bias: -0.7 step

SIMULATED CONDITIONS2



VISIBILTY OF CLOSEST TURBINES



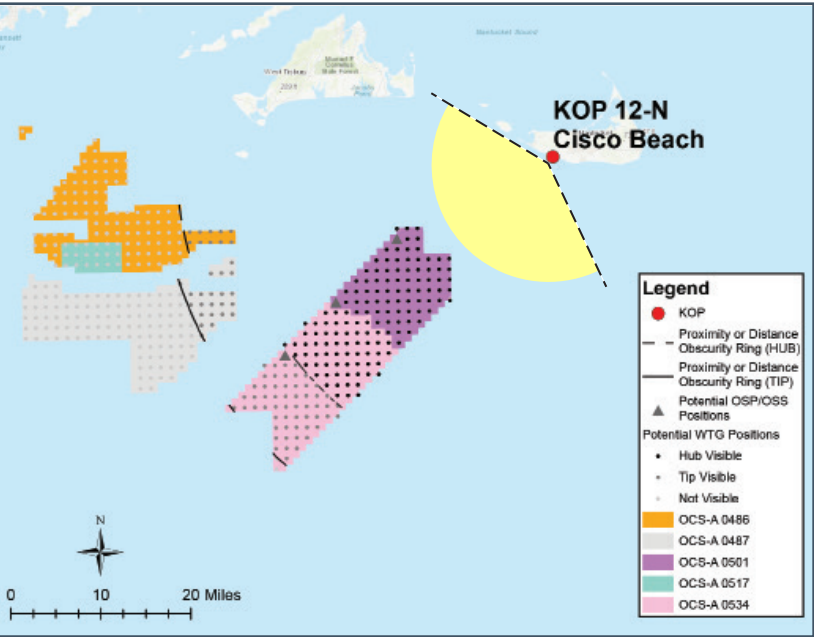
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SIMULATED CONDITIONS

3



REGIONAL MAP



SITE MAP



PROJECT VIEW

Horizontal Field of View: 124°	Furthest Visible WTG: 46 mi / 74 km
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	Lighting Direction: Backlit diffused

ENVIRONMENT

Temperature: 61° F
Humidity: 90%
Wind Dir & Speed: N 6 mph
Weather Condition: Partly Cloudy

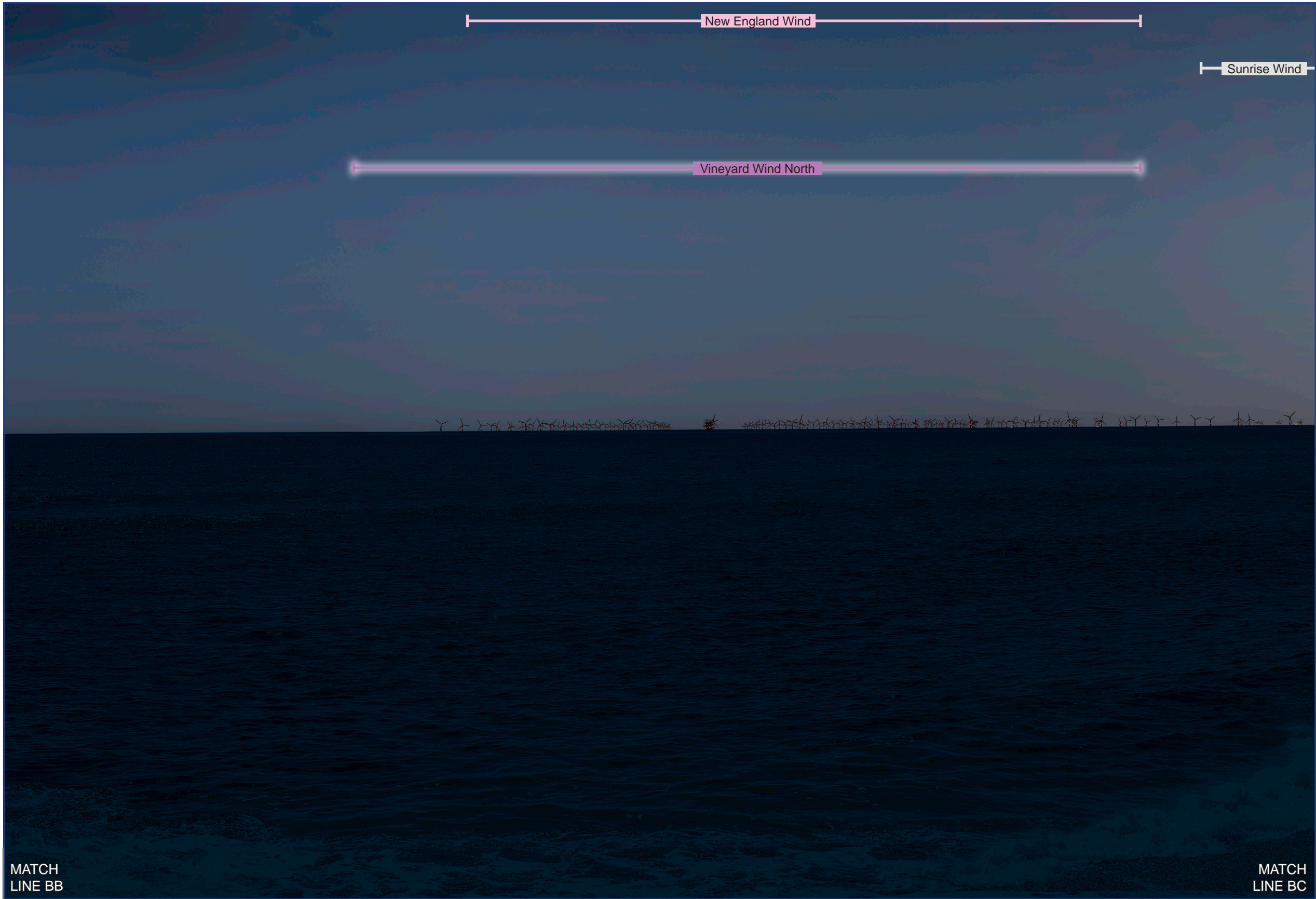
CAMERA

Camera Elevation: 23.0 ft / 7.0 m
Nikon D4
Nikon 50mm
ISO: 100
Fstop: f/7.1
Shutter: 1/1250 sec
Exposure bias: -0.7 step

SIMULATED CONDITIONS

4



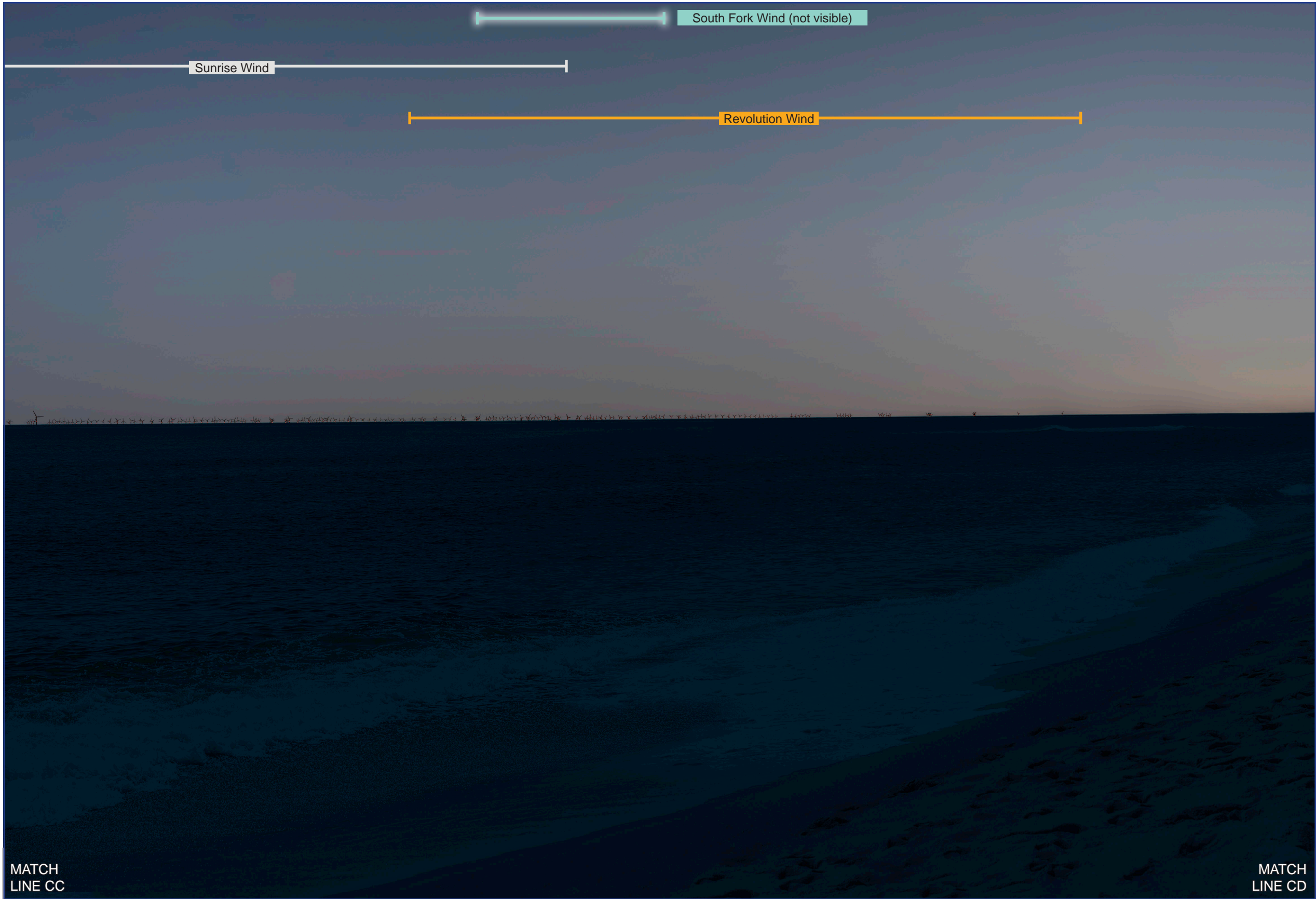


MATCH
LINE AB

MATCH
LINE BB

MATCH
LINE BC

MATCH
LINE CC



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PANORAMIC PHOTOGRAPH - EXISTING CONDITIONS

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Weather Condition: Partly Cloudy

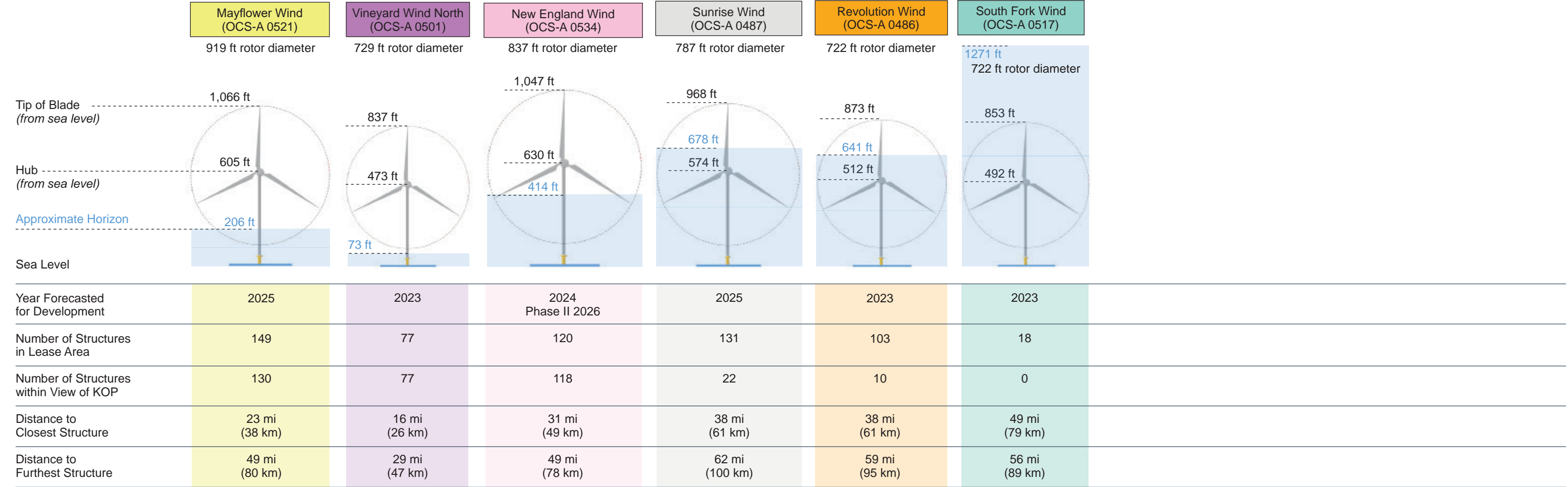
CAMERA

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Nikon 50mm
ISO: 100
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SIMULATED CONDITIONS2



VISIBILTY OF CLOSEST TURBINES

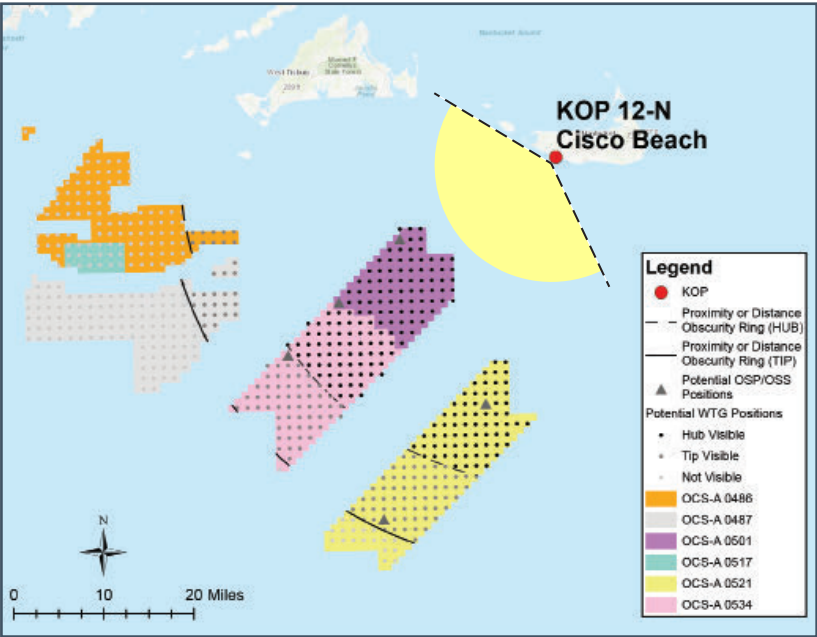


SIMULATED CONDITIONS

3



REGIONAL MAP



SITE MAP



PROJECT VIEW

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	Lighting Direction: Backlit diffused

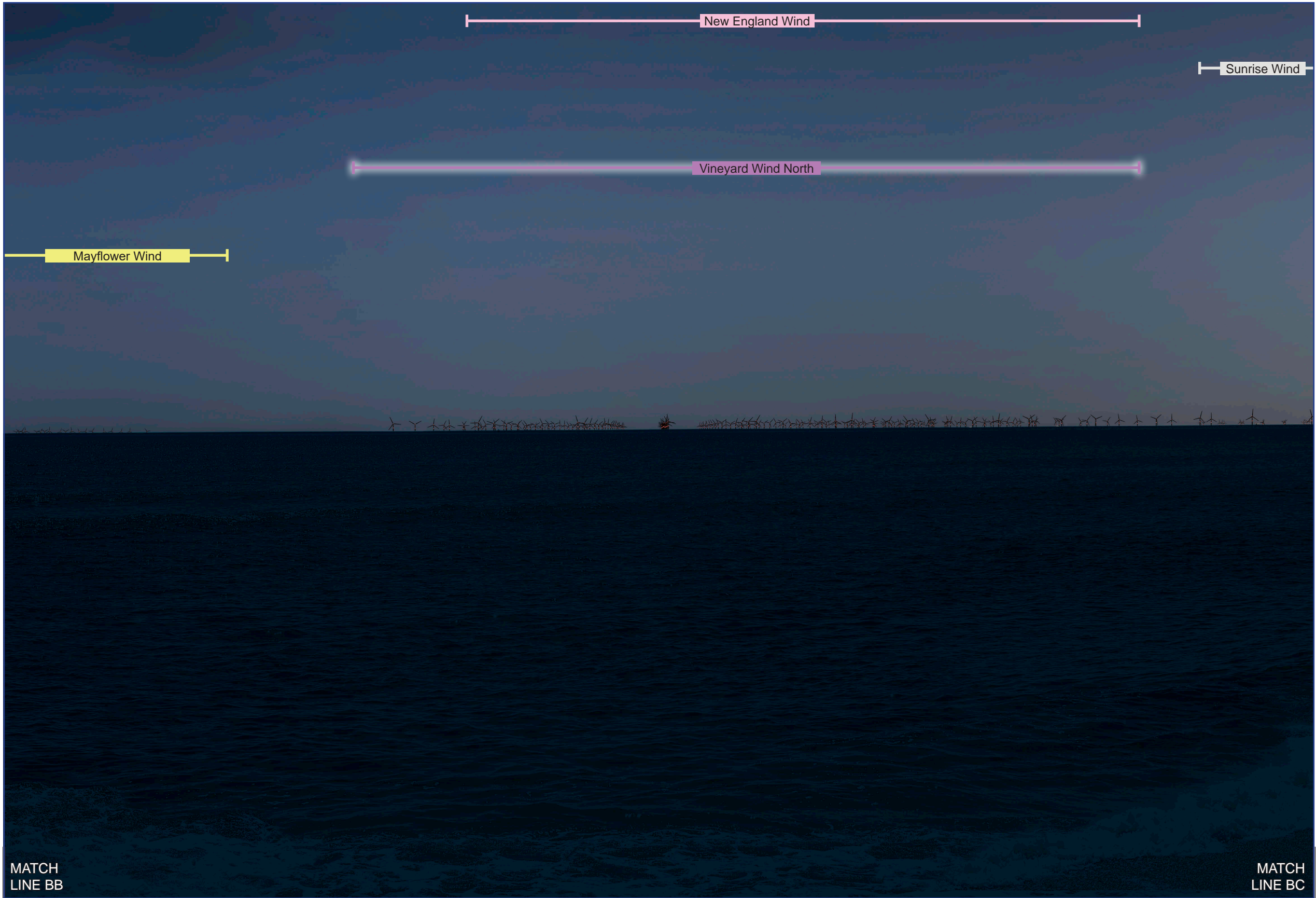
ENVIRONMENT

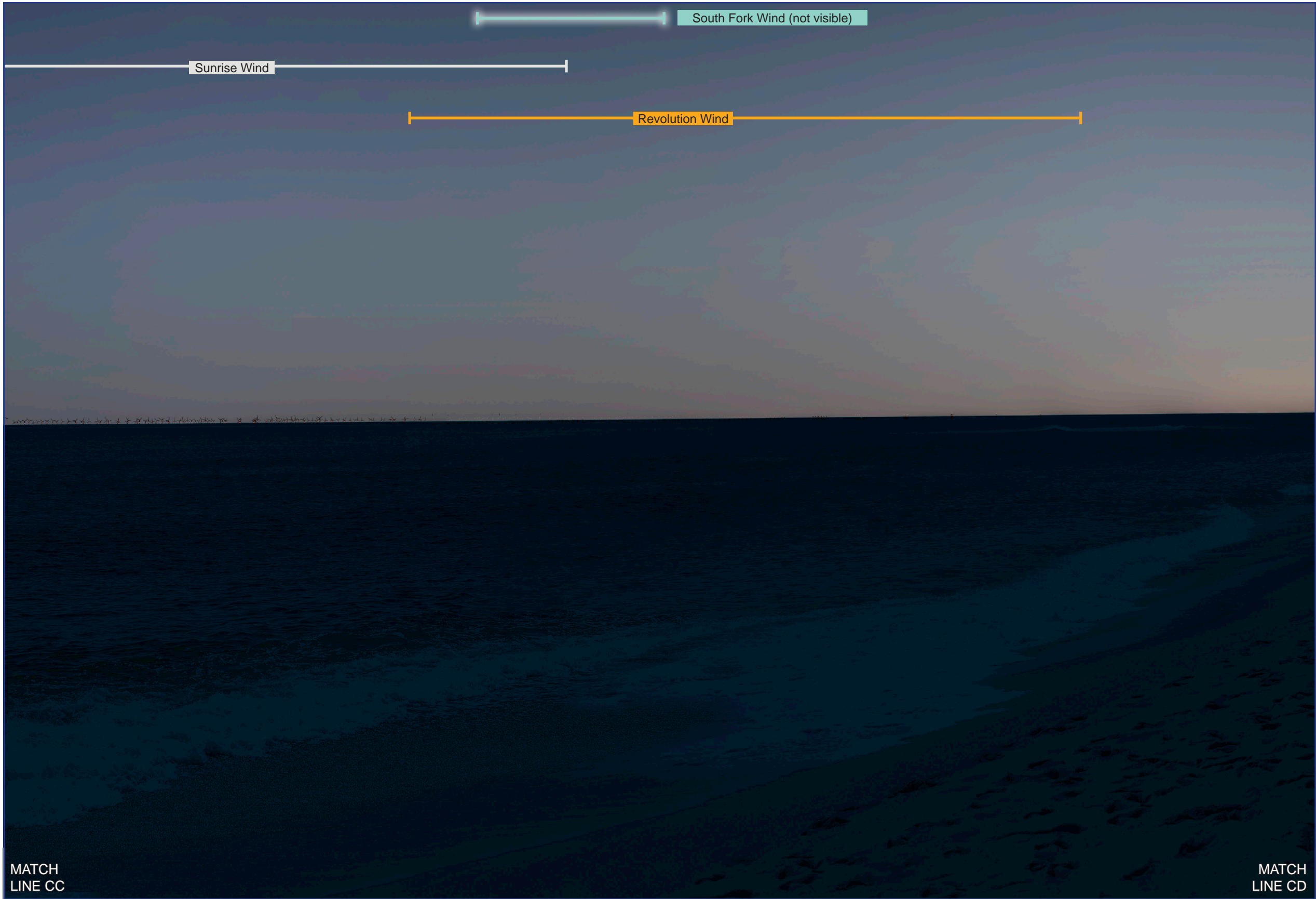
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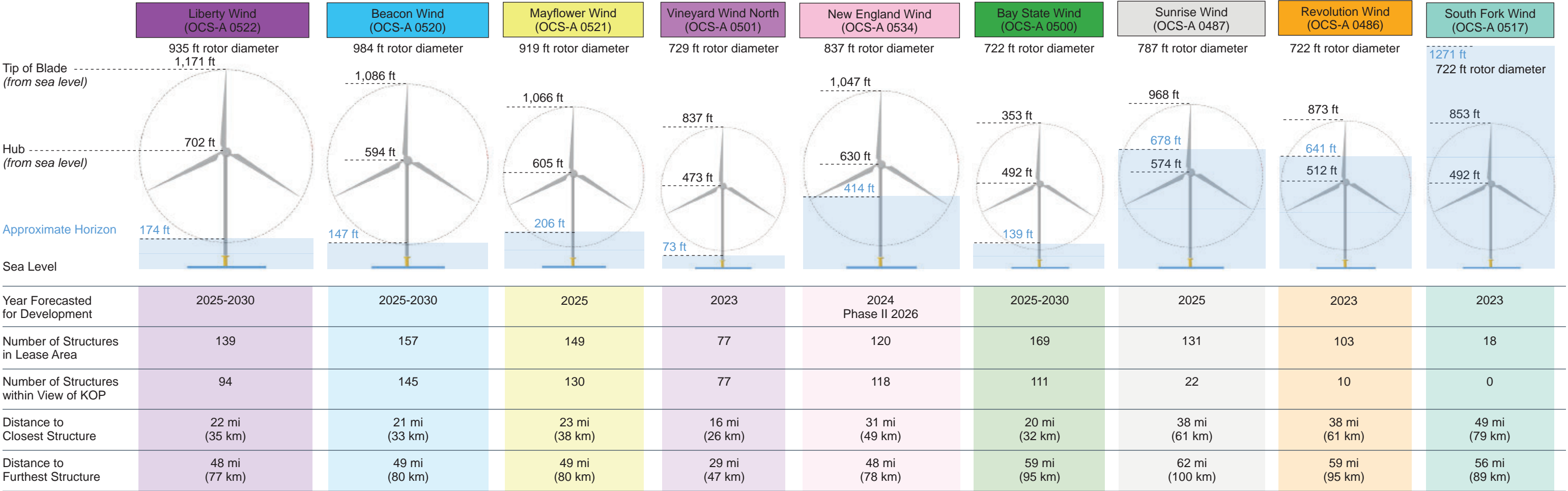
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Nikon D4
Nikon 50mm
ISO: 100
Fstop: f/7.1
Shutter: 1/1250 sec
Exposure bias: -0.7 step

SIMULATED CONDITIONS

2

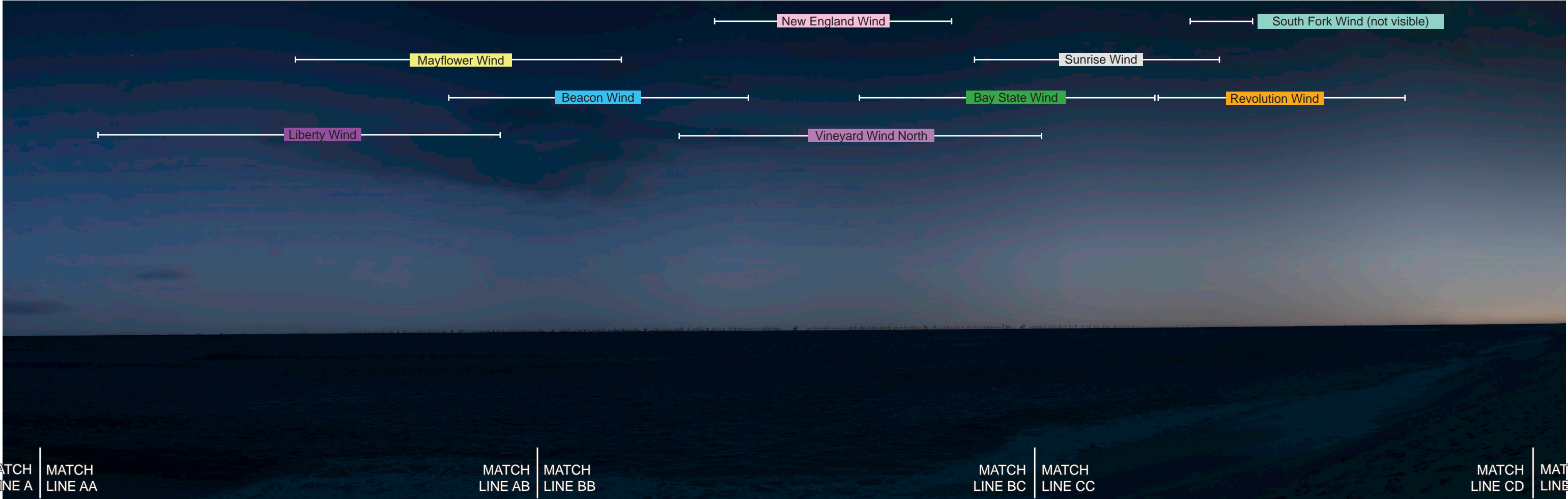


VISIBILTY OF CLOSEST TURBINES

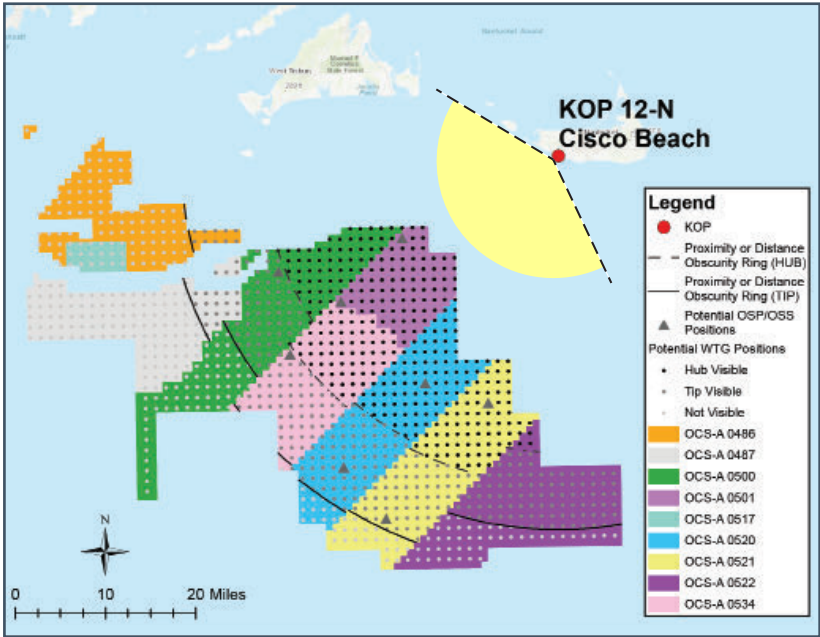


SIMULATED CONDITIONS

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REGIONAL MAP



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Weather Condition: Partly Cloudy

PHOTOGRAPH AND SITE

Time of photograph: 1:25PM	Viewing direction: South (226°)
Date of photograph: 8-20-20	Latitude: 41.252490°N
L/SCA: Open Ocean, Ocean Beach, Dunes, Salt Ponds/Tidal Marsh, Residential	Longitude: 70.154080°W
	Lighting Direction: Backlit diffused

CAMERA

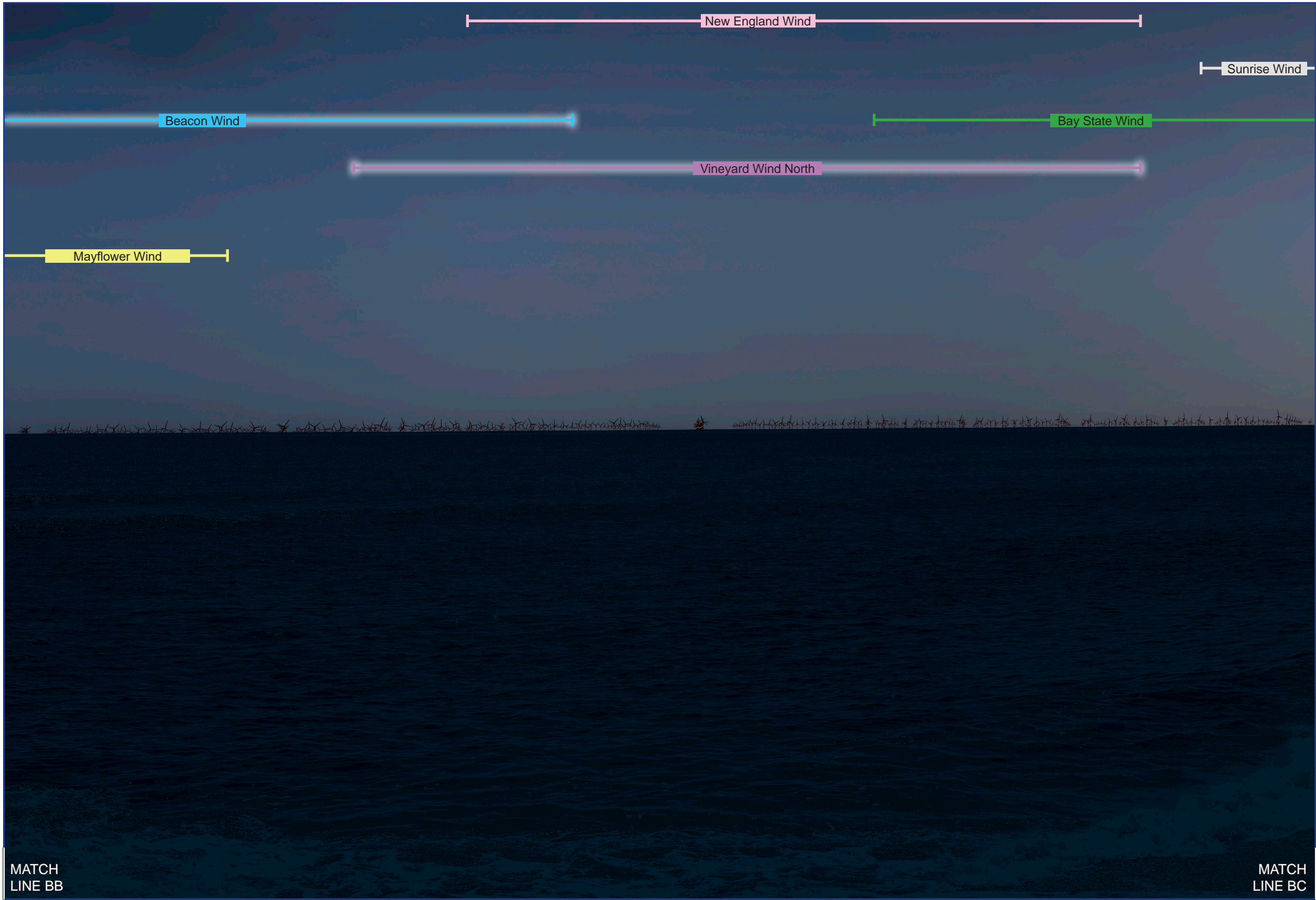
Camera Elevation: 23.0 ft / 7.0 m
Nikon D4
Nikon 50mm
ISO: 100
Fstop: f/7.1
Shutter: 1/1250 sec
Exposure bias: -0.7 step

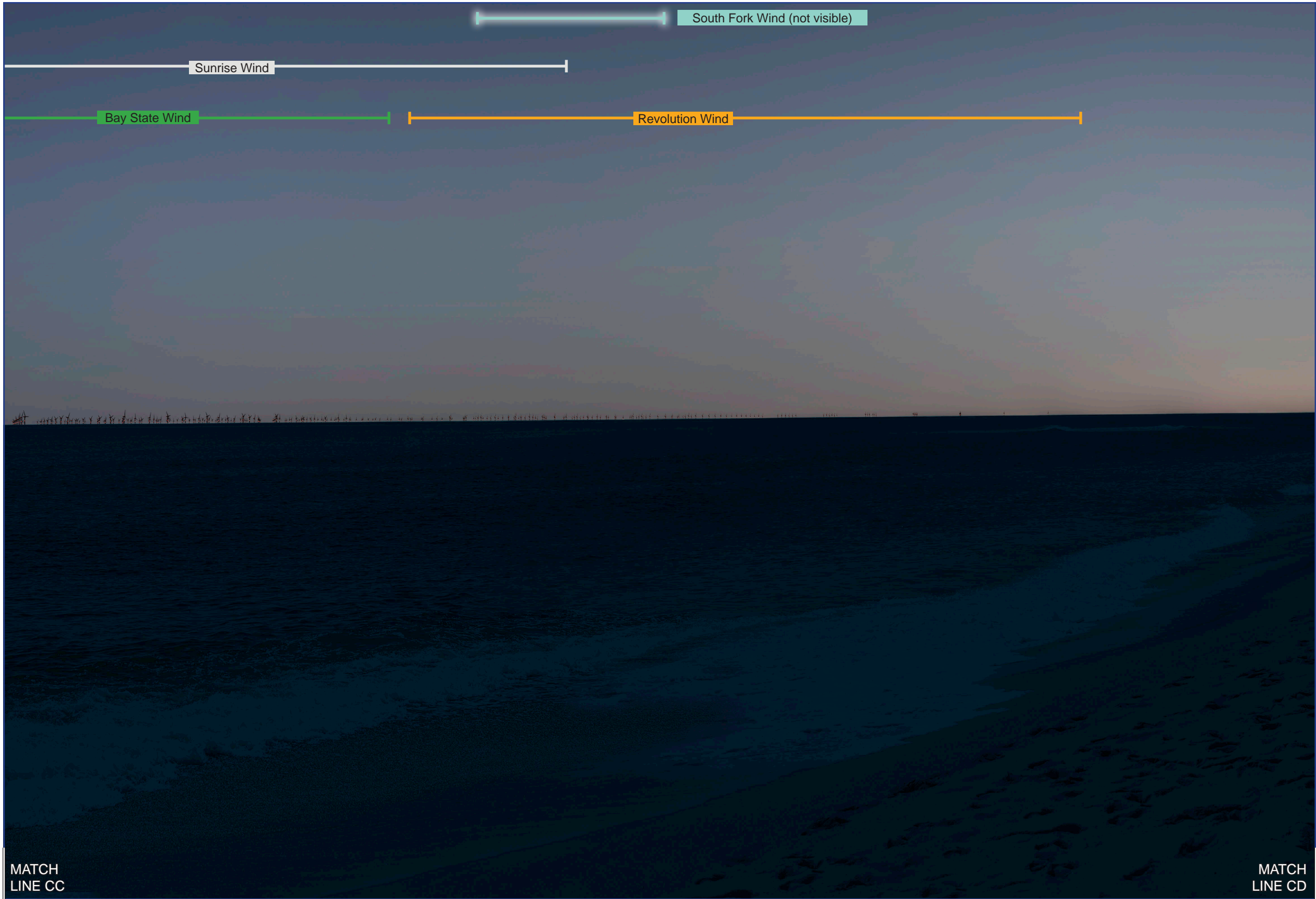


MATCH
LINE A

MATCH
LINE AB

MATCH
LINE BB





The page should viewed at 11" x 17" approximately 15" from viewer's eyes .

PANORAMIC PHOTOGRAPH - EXISTING CONDITIONS

1



MATCH LINES define visual simulation detail areas

A-B is shown on pages 2-3

AA-AB is shown on page 4

BB-BC is shown on page 5

CC-CD is shown on page 6

PROJECT VIEW

Horizontal Field of View: 193°	Furthest Visible WTG: 46 mi / 74 km
Vertical Field of View: 40°	Potential Number of Structures Visible: 577
Nearest WTG: 16.2 mi / 26 km	Potential Number of Structures Not Visible: 337

PHOTOGRAPH AND SITE

Time of photograph: 9:00PM	Viewing direction: South (226°)
Date of photograph: 8-20-20	Latitude: 41.252490°N
L/SCA: Open Ocean, Ocean Beach, Dunes, Salt Ponds/Tidal Marsh, Residential	Longitude: 70.154080°W
	Lighting Direction: Backlit diffused

ENVIRONMENT

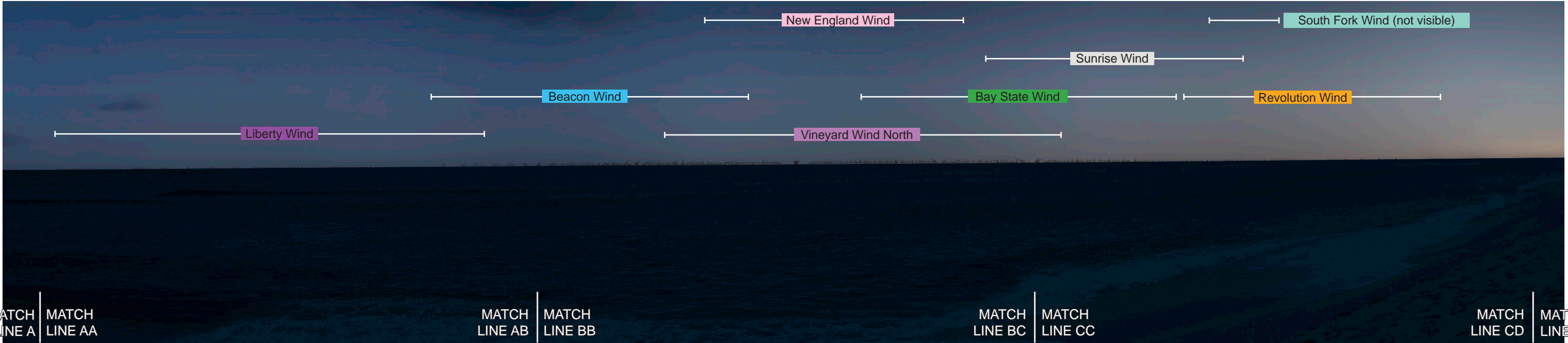
Temperature: 61° F
Humidity: 90%
Wind Dir & Speed: N 6 mph
Weather Condition: Partly Cloudy

CAMERA

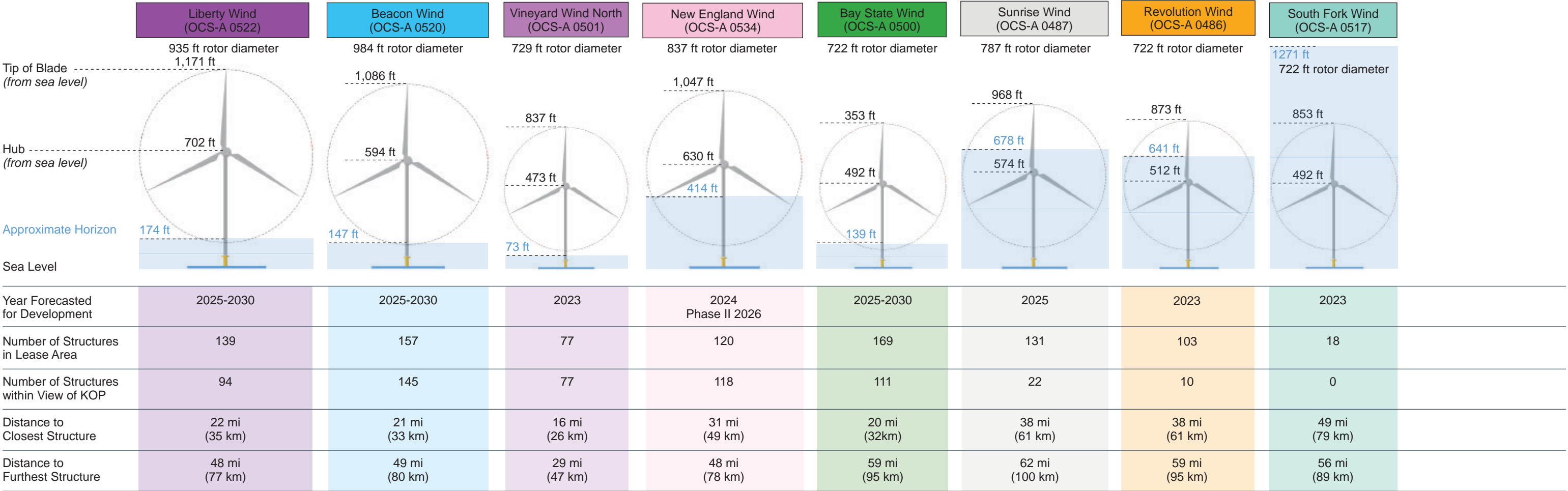
Camera Elevation: 23.0 ft / 7.0 m
Nikon D4
Nikon 50mm
ISO: 100
Fstop: f/7.1
Shutter: 1/1250 sec
Exposure bias: -0.7 step

SIMULATED CONDITIONS

2



VISIBILTY OF CLOSEST TURBINES

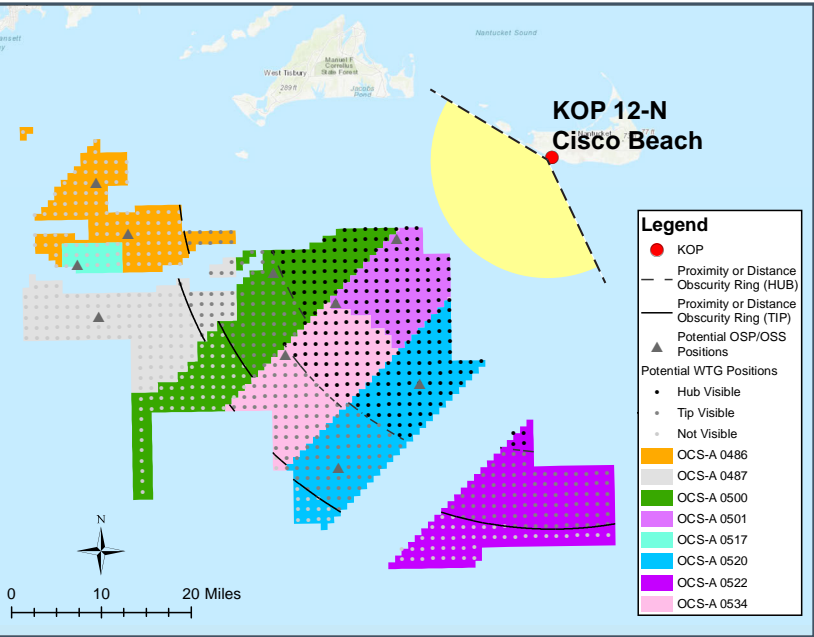


SIMULATED CONDITIONS

3



REGIONAL MAP



SITE MAP



PROJECT VIEW

Horizontal Field of View: 124°	Furthest Visible WTG: 46 mi / 74 km
Vertical Field of View: 40°	Potential Number of Structures Visible: 577
Nearest WTG: 16 mi / 26 km	Potential Number of Structures Not Visible: 337

PHOTOGRAPH AND SITE

Time of photograph: 1:25PM	Viewing direction: South (226°)
Date of photograph: 8-20-20	Latitude: 41.252490°N
L/SCA: Open Ocean, Ocean Beach, Dunes, Salt Ponds/Tidal Marsh, Residential	Longitude: 70.154080°W
	Lighting Direction: Backlit diffused

ENVIRONMENT

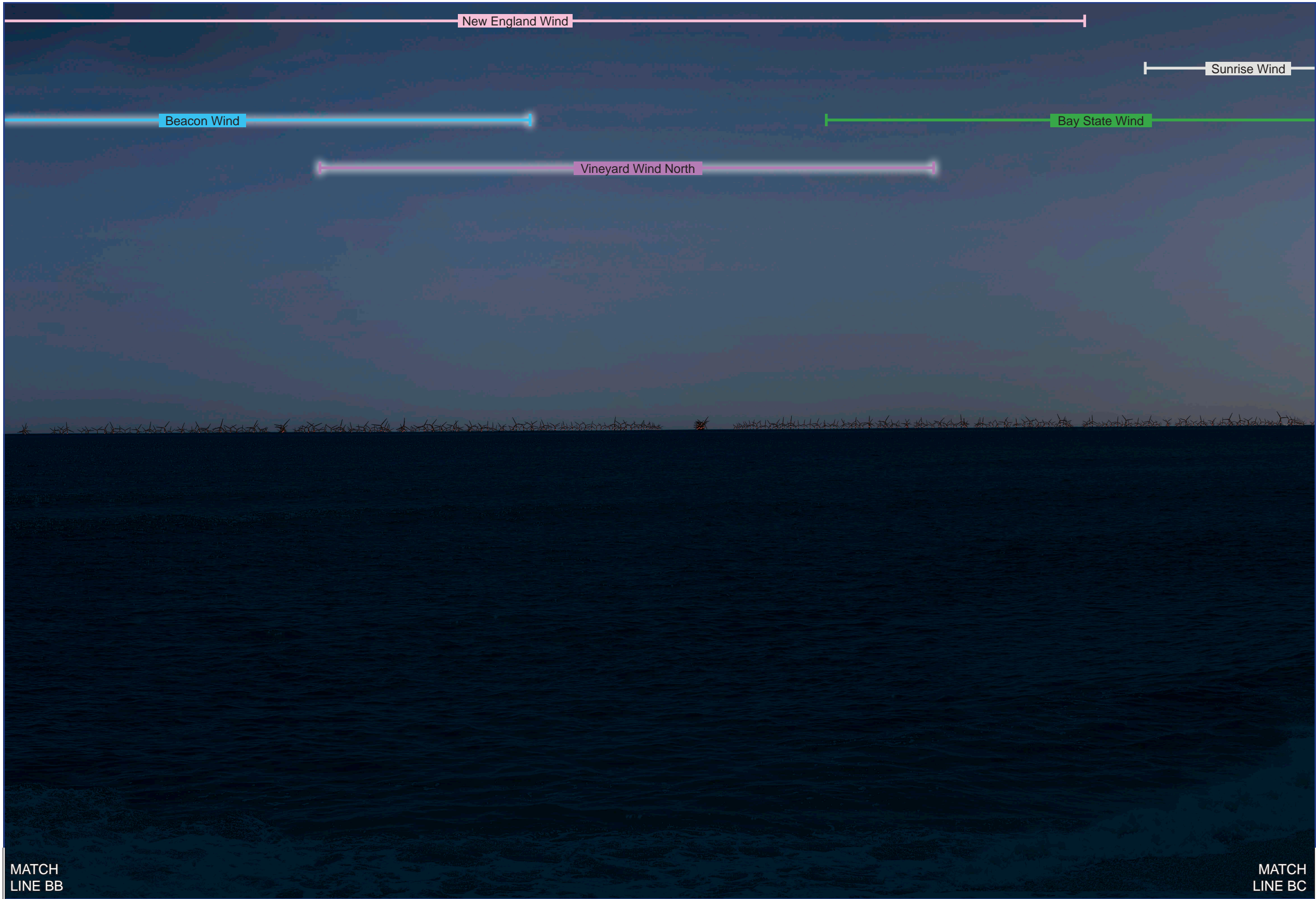
Temperature: 61° F
Humidity: 90%
Wind Dir & Speed: N 6 mph
Weather Condition: Partly Cloudy

CAMERA

Camera Elevation: 23.0 ft / 7.0 m
Nikon D4
Nikon 50mm
ISO: 100
Fstop: f/7.1
Shutter: 1/1250 sec
Exposure bias: -0.7 step



The page should viewed at 11" x 17" approximately 15" from viewer's eyes .





MATCH
LINE BC

MATCH
LINE CC

MATCH
LINE CD

MATCH
LINE B

PANORAMIC PHOTOGRAPH - EXISTING CONDITIONS

1



MATCH LINES define visual simulation detail areas

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CC-CD is shown on page 6

PROJECT VIEW

Horizontal Field of View: 193°	Furthest Visible WTG: 46 mi / 74 km
Vertical Field of View: 40°	Potential Number of Structures Visible: 577
Nearest WTG: 16 mi / 26 km	Potential Number of Structures Not Visible: 337

PHOTOGRAPH AND SITE

Time of photograph: 9:00PM	Viewing direction: South (226°)
Date of photograph: 8-20-20	Latitude: 41.252490°N
L/SCA: Open Ocean, Ocean Beach, Dunes, Salt Ponds/Tidal Marsh, Residential	Longitude: 70.154080°W
	Lighting Direction: Backlit diffused

ENVIRONMENT

Temperature: 61° F
Humidity: 90%
Wind Dir & Speed: N 6 mph
Weather Condition: Partly Cloudy

CAMERA

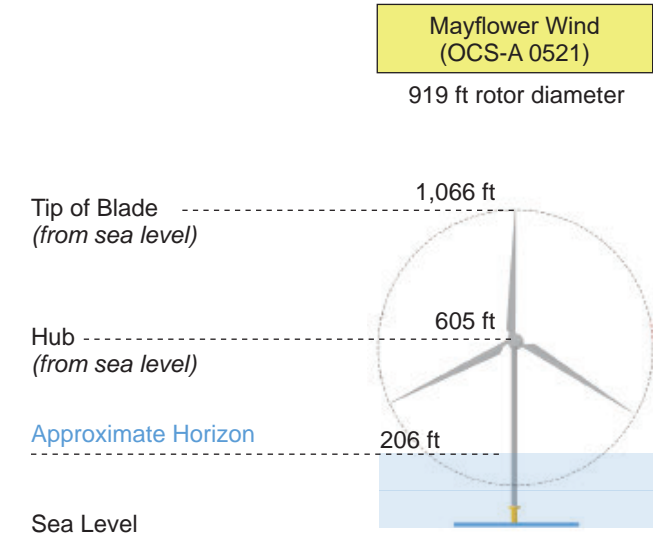
Camera Elevation: 23.0 ft / 7.0 m
Nikon D4
Nikon 50mm
ISO: 100
Fstop: f/7.1
Shutter: 1/1250 sec
Exposure bias: -0.7 step

SIMULATED CONDITIONS

2



VISIBILTY OF CLOSEST TURBINES



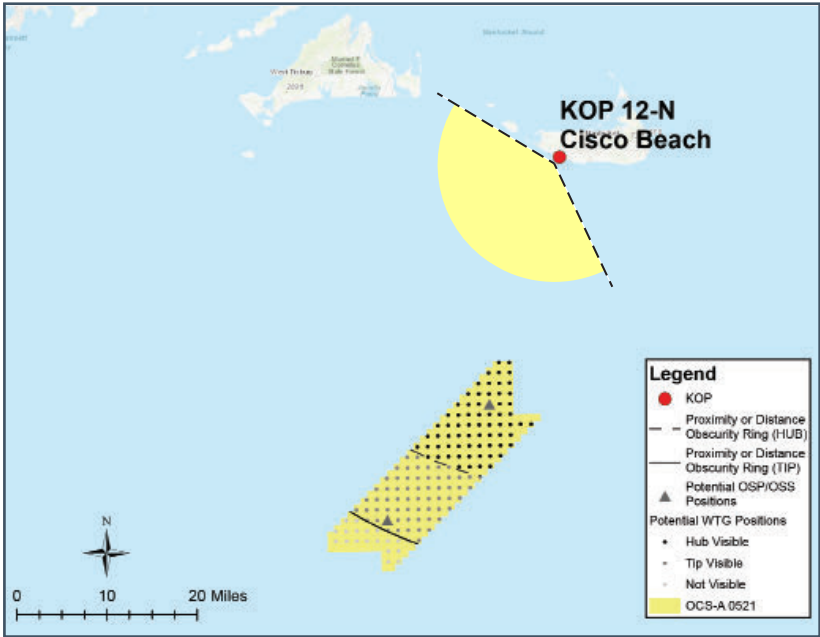
Year Forecasted for Development	2025
Number of Structures in Lease Area	149
Number of Structures within View of KOP	130
Distance to Closest Structure	23 mi (38 km)
Distance to Furthest Structure	49 mi (80 km)

SIMULATED CONDITIONS

3



REGIONAL MAP



SITE MAP



PROJECT VIEW

Horizontal Field of View: 124°	Furthest Visible WTG: 46 mi / 74 km
Vertical Field of View: 40°	Potential Number of Structures Visible: 577
Nearest WTG: 16 mi / 26 km	Potential Number of Structures Not Visible: 337

ENVIRONMENT

Temperature: 61° F
Humidity: 90%
Wind Dir & Speed: N 6 mph
Weather Condition: Partly Cloudy

PHOTOGRAPH AND SITE

Time of photograph: 1:25PM	Viewing direction: South (226°)
Date of photograph: 8-20-20	Latitude: 41.252490°N
L/SCA: Open Ocean, Ocean Beach, Dunes, Salt Ponds/Tidal Marsh, Residential	Longitude: 70.154080°W
	Lighting Direction: Backlit diffused

CAMERA

Camera Elevation: 23.0 ft / 7.0 m
Nikon D4
Nikon 50mm
ISO: 100
Fstop: f/7.1
Shutter: 1/1250 sec
Exposure bias: -0.7 step







MATCH
LINE BC

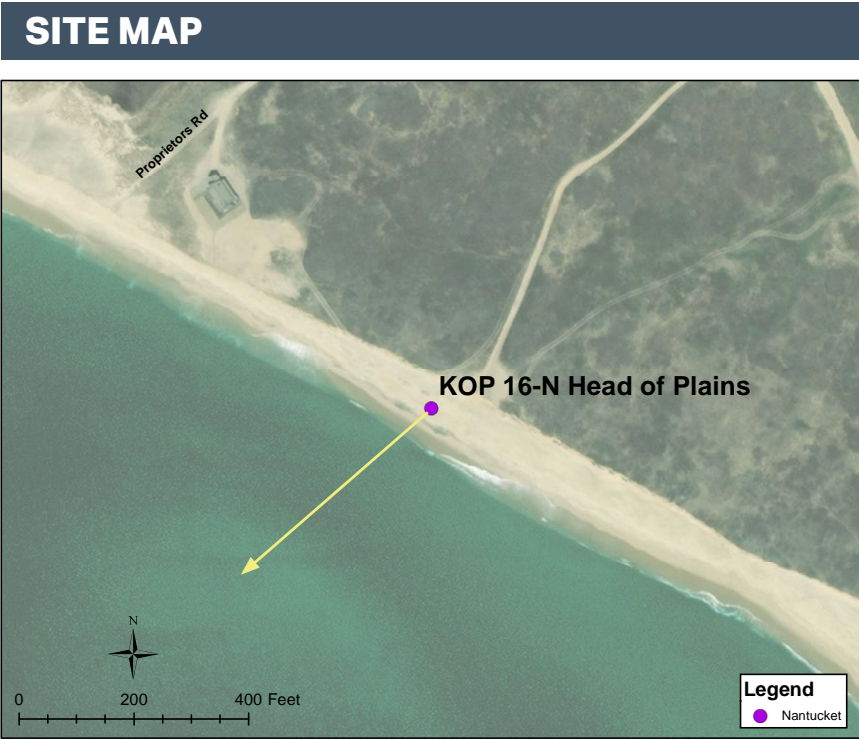
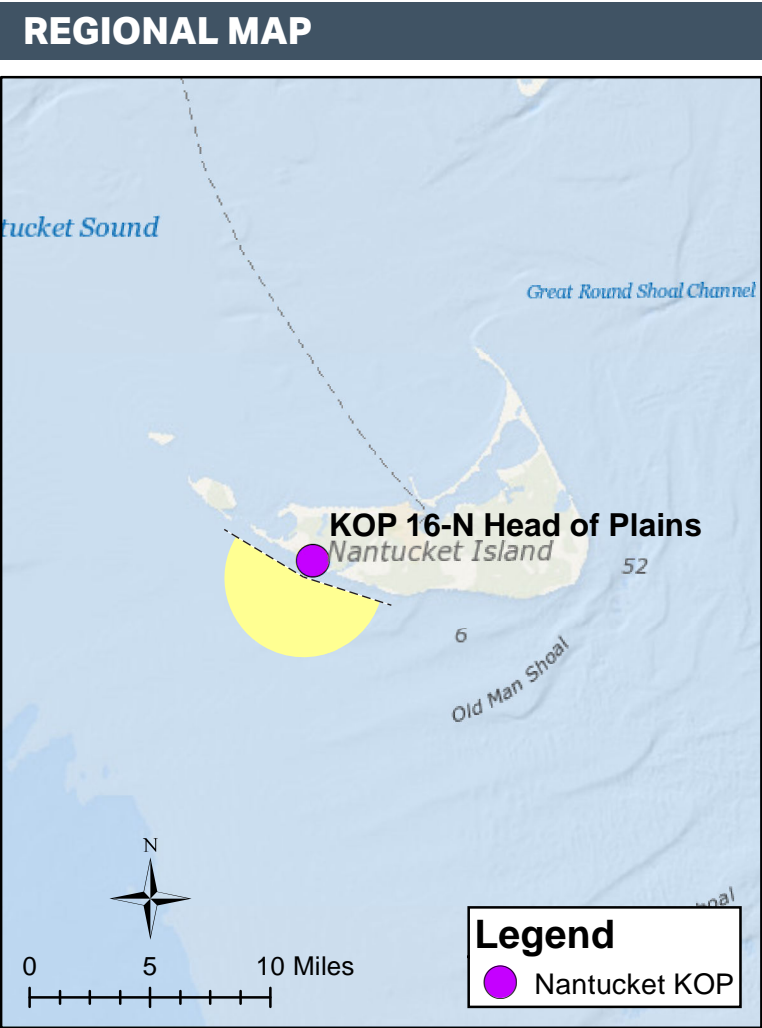
MATCH
LINE CC

MATCH
LINE CD

MATCH
LINE B

PANORAMIC PHOTOGRAPH - EXISTING CONDITIONS

1



MATCH LINES define visual simulation detail areas

- A-B is shown on pages 2-3
- AA-AB is shown on page 4
- BB-BC is shown on page 5
- CC-CD is shown on page 6

PROJECT VIEW

Horizontal Field of View: 193°	Furthest Visible WTG: 46 mi / 74 km
Vertical Field of View: 40°	Potential Number of WTGs Visible: 244
Nearest WTG: 16 mi / 25 km	Potential Number of WTGs Not Visible: 205

PHOTOGRAPH AND SITE

Time of photograph: 3:54 PM	Viewing direction: South (229°)
Date of photograph: 10-7-20	Latitude: 41.341724°N
L/SCA: Ocean Beach, Open Ocean, Dunes	Longitude: 70.179524°W
	Lighting Direction: Sidelit

ENVIRONMENT

Temperature: 66° F
Humidity: 81%
Wind Dir & Speed: SW 21 mph
Weather Condition: Clear

CAMERA

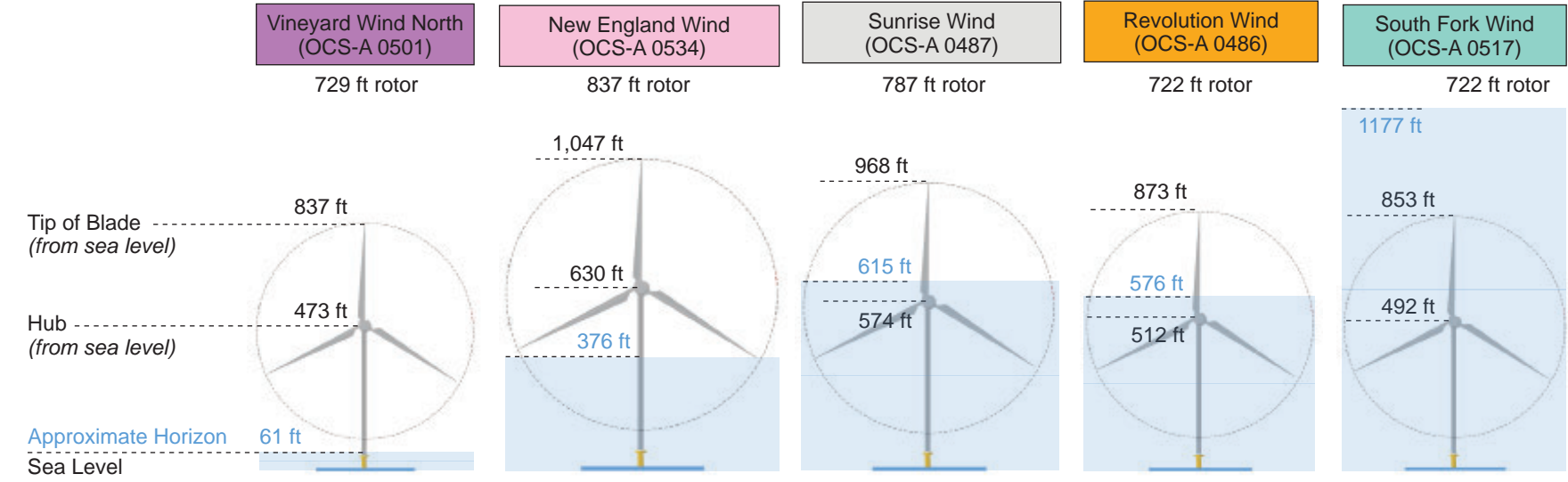
Camera Elevation: 20.5 ft / 6.3 m
Nikon D4
Nikon 50mm
ISO: 100
Fstop: f/7.1
Shutter: 1/1250 sec
Exposure bias: -0.7 step

SIMULATED CONDITIONS

2



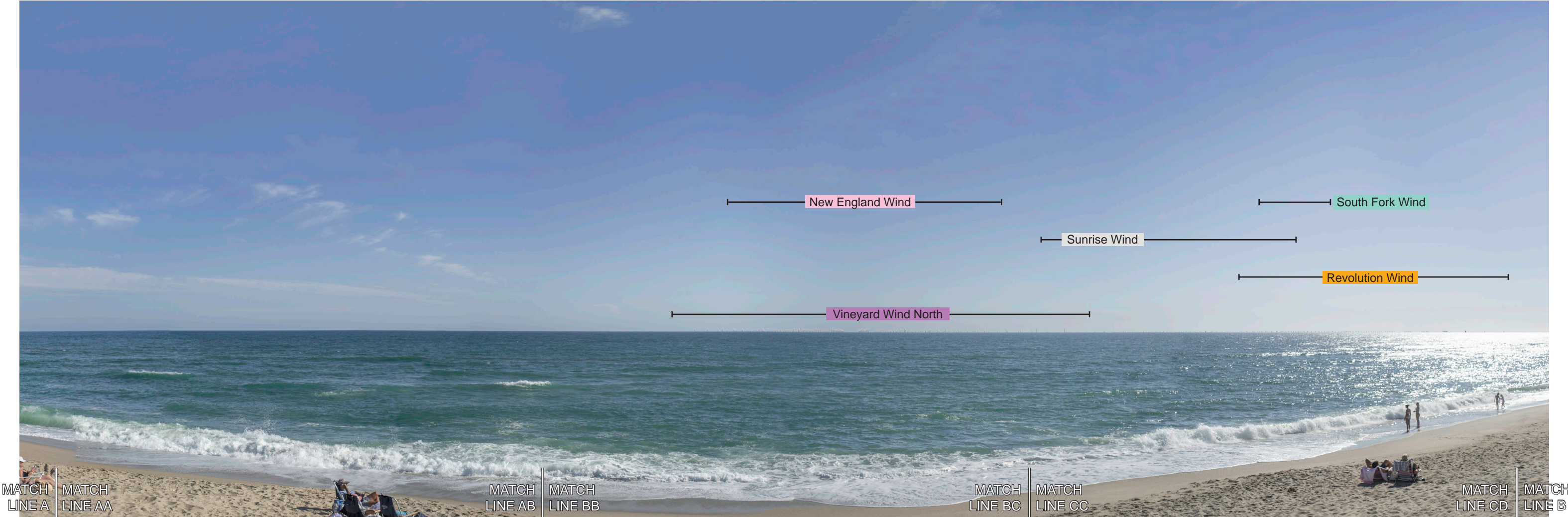
VISIBILTY OF CLOSEST TURBINES



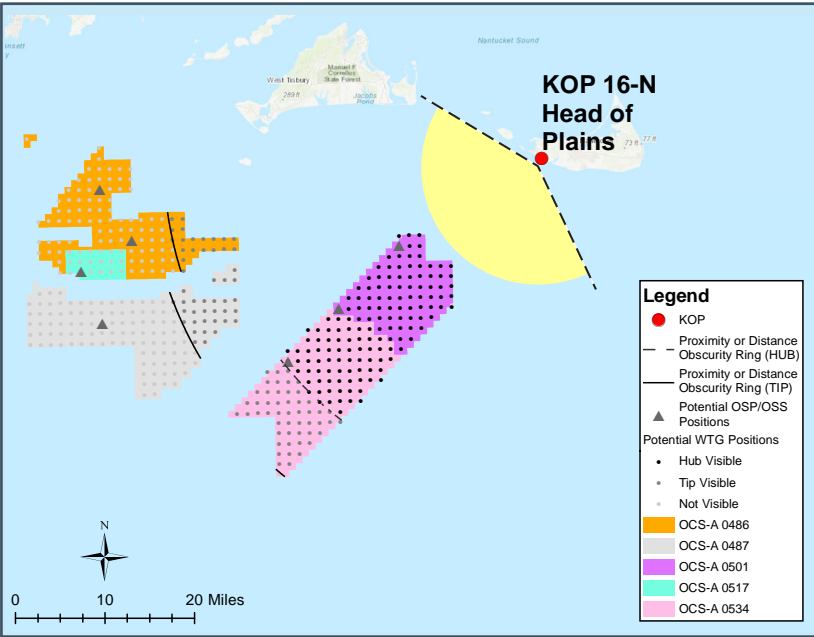
Year Forecasted for Development	2023	2024 Phase II 2026	2025	2023	2023	
Number of Structures in Lease Area	77	120	131	103	18	
Number of Structures within View of KOP	77	119	29	19	0	
Distance to Closest Structure	16 mi (25 km)	30 mi (48 km)	37 mi (59 km)	36 mi (57 km)	48 mi (77.45 km)	
Distance to Furthest Structure	28 mi (46 km)	46 mi (74 km)	61 mi (98 km)	58 mi (93 km)	54 mi (87 km)	

SIMULATED CONDITIONS

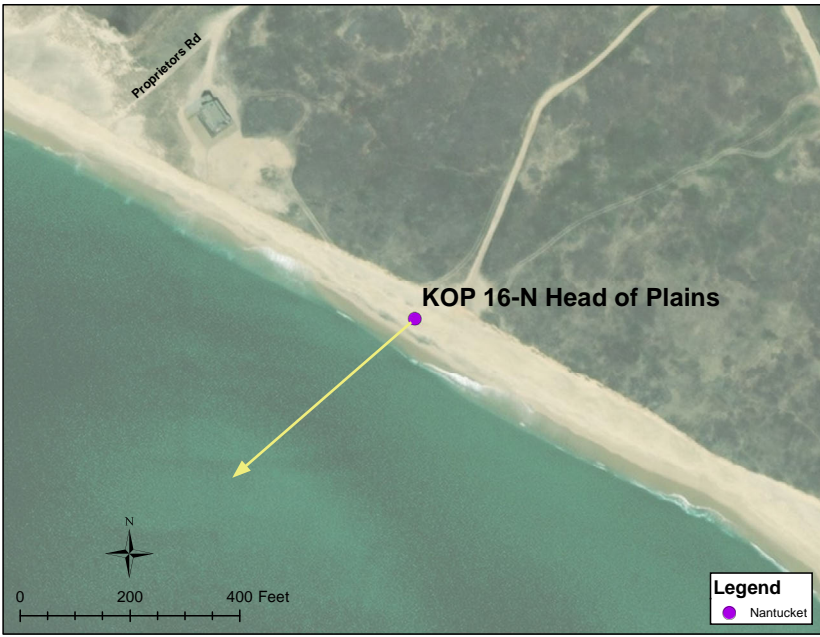
3



REGIONAL MAP



SITE MAP



PROJECT VIEW

Horizontal Field of View: 124°	Furthest Visible WTG: 46 mi / 74 km
Vertical Field of View: 40°	Potential Number of WTGs Visible: 244
Nearest WTG: 16 mi / 25 km	Potential Number of WTGs Not Visible: 205

ENVIRONMENT

Temperature: 66° F
Humidity: 81%
Wind Dir & Speed: SW 21 mph
Weather Condition: Clear

PHOTOGRAPH AND SITE

Time of photograph: 3:54PM	Viewing direction: South (229°)
Date of photograph: 10-7-20	Latitude: 41.341724°N
L/SCA: Ocean Beach, Open Ocean, Dunes	Longitude: 70.179524°W
	Lighting Direction: Sidelit

CAMERA

Camera Elevation: 20.5 ft / 6.3 m
Nikon D4
Nikon 50mm
ISO: 100
Fstop: f/7.1
Shutter: 1/1250 sec
Exposure bias: -0.7 step



MATCH
LINE A

MATCH
LINE AA

MATCH
LINE AB

MATCH
LINE BB

The page should viewed at 11" x 17" approximately 15" from viewer's eyes .

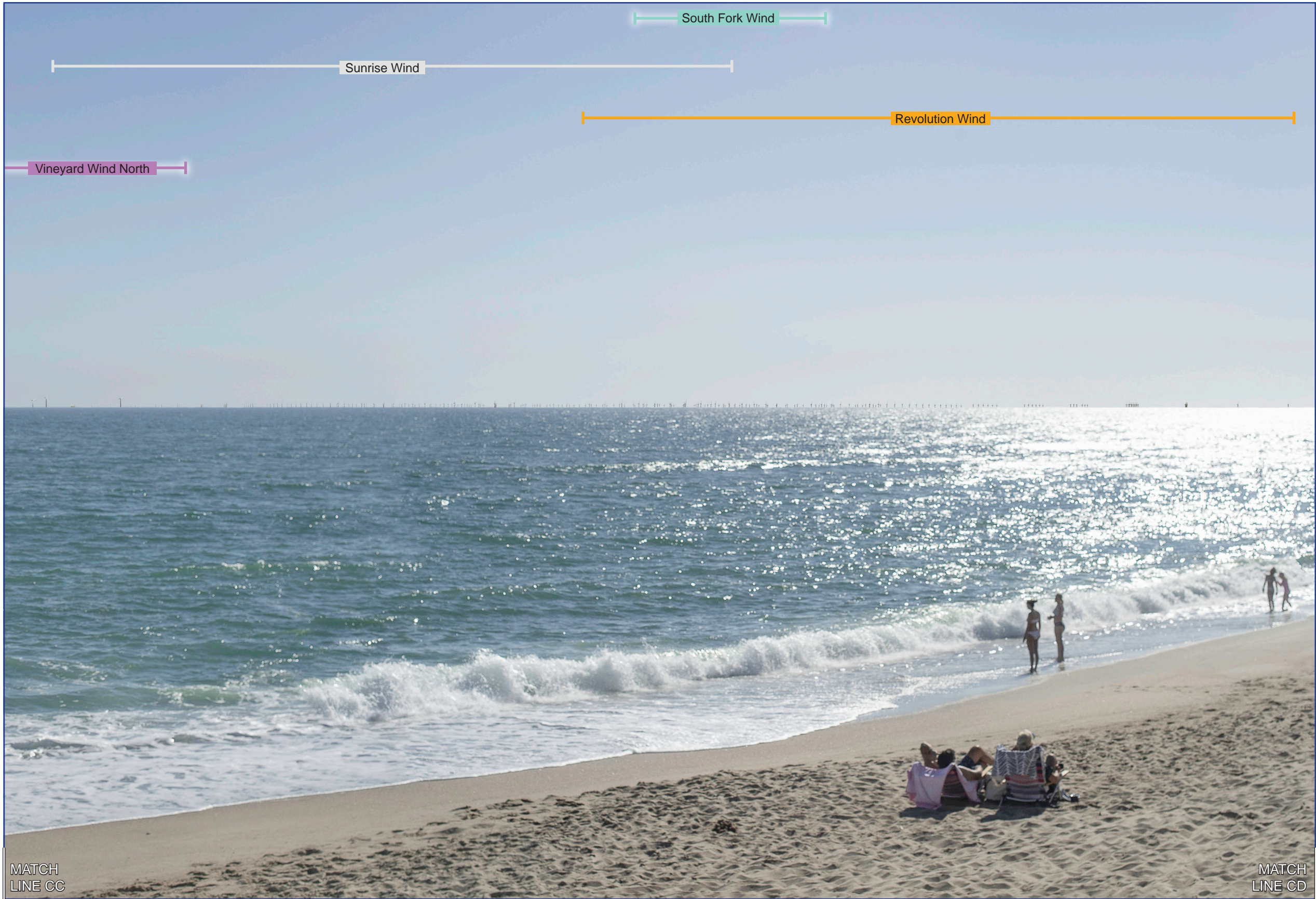


MATCH
LINE AB

MATCH
LINE BB

MATCH
LINE BC

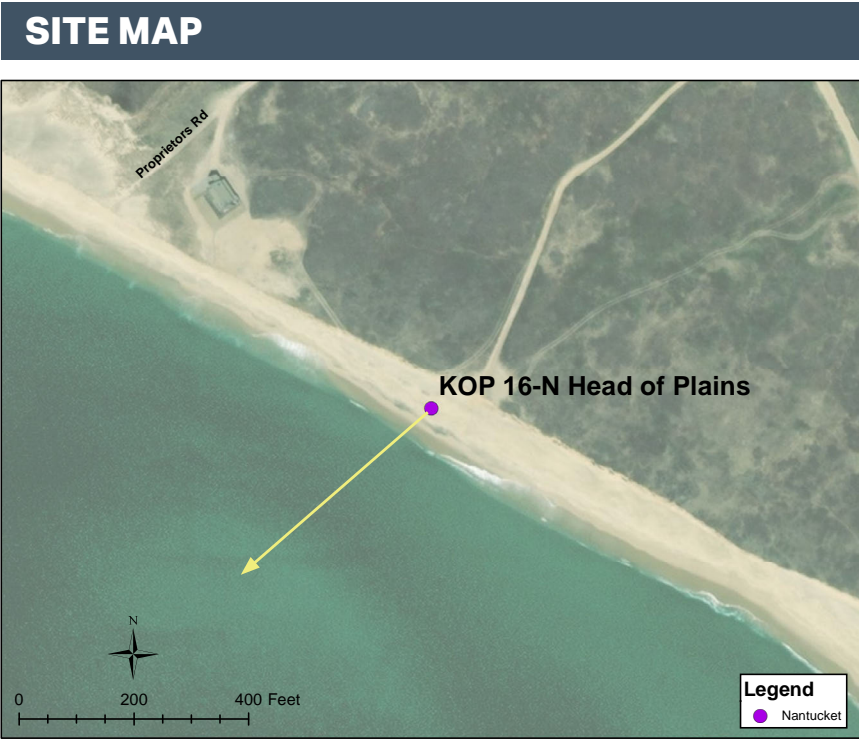
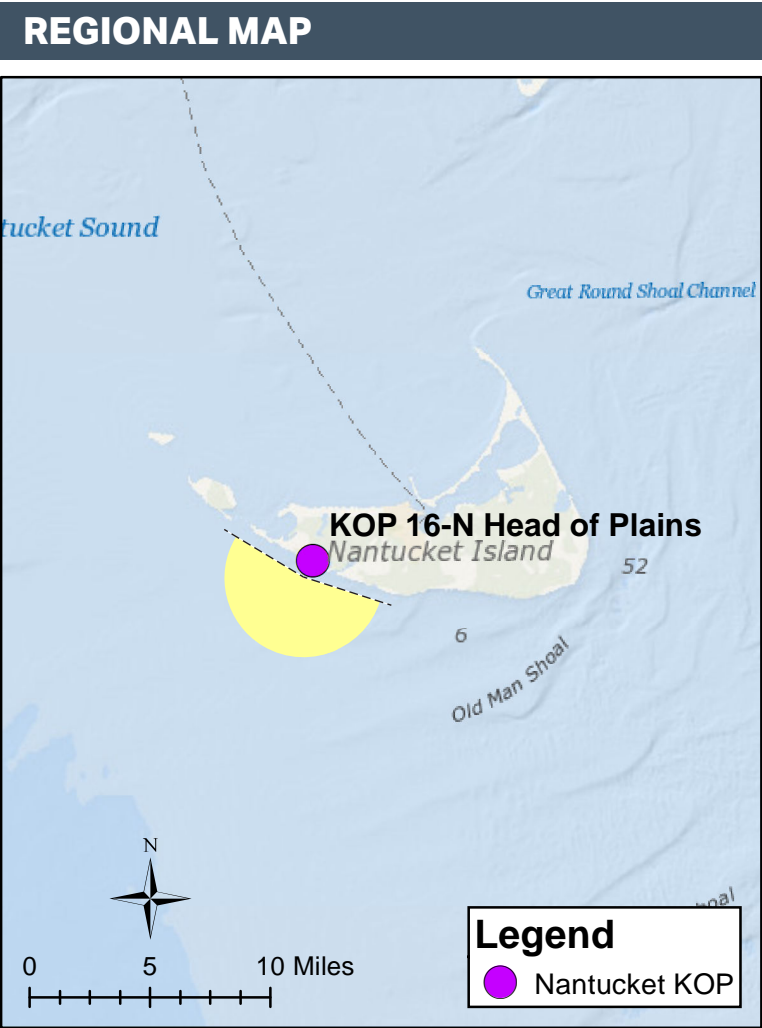
MATCH
LINE CC



The page should viewed at 11" x 17" approximately 15" from viewer's eyes .

PANORAMIC PHOTOGRAPH - EXISTING CONDITIONS

1



MATCH LINES define visual simulation detail areas

A-B is shown on pages 2-3
AA-AB is shown on page 4
BB-BC is shown on page 5
CC-CD is shown on page 6

PROJECT VIEW

Horizontal Field of View: 193°	Furthest Visible WTG: 46 mi / 74 km
Vertical Field of View: 40°	Potential Number of WTGs Visible: 376
Nearest WTG: 16 mi / 25 km	Potential Number of WTGs Not Visible: 222

PHOTOGRAPH AND SITE

Time of photograph: 3:54PM	Viewing direction: South (229°)
Date of photograph: 10-7-20	Latitude: 41.341724°N
L/SCA: Ocean Beach, Open Ocean, Dunes	Longitude: 70.179524°W
	Lighting Direction: Sidelit

ENVIRONMENT

Temperature: 66° F
Humidity: 81%
Wind Dir & Speed: SW 21 mph
Weather Condition: Clear

CAMERA

Camera Elevation: 20.5 ft / 6.3 m
Nikon D4
Nikon 50mm
ISO: 100
Fstop: f/7.1
Shutter: 1/1250 sec
Exposure bias: -0.7 step

SIMULATED CONDITIONS

2

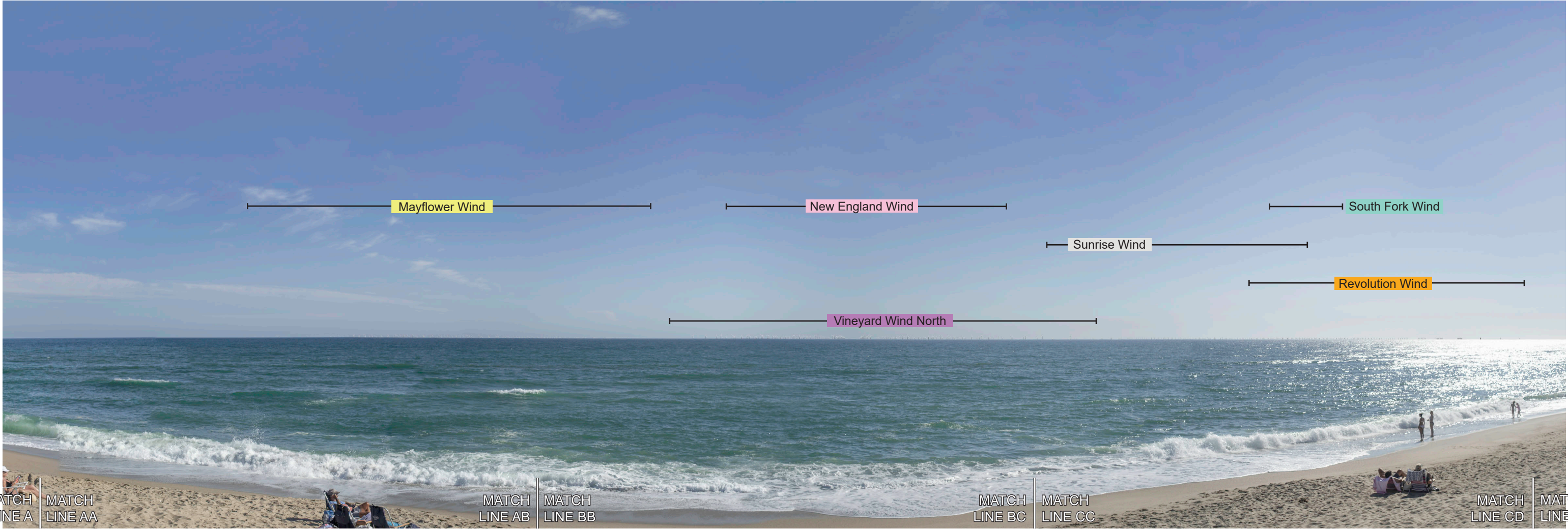


VISIBILTY OF CLOSEST TURBINES

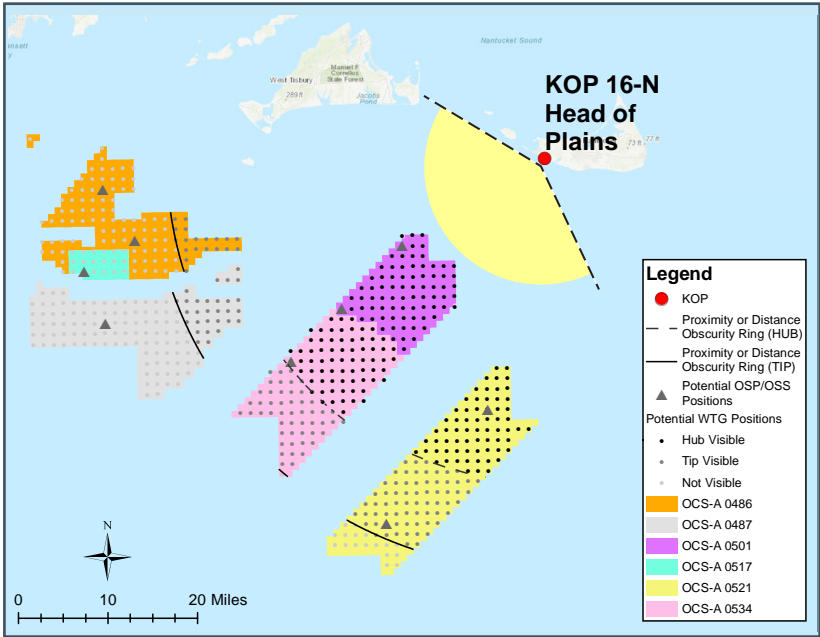
	Mayflower Wind (OCS-A 0521)	Vineyard Wind North (OCS-A 0501)	New England Wind (OCS-A 0534)	Sunrise Wind (OCS-A 0487)	Revolution Wind (OCS-A 0486)	South Fork Wind (OCS-A 0517)	
	919 ft rotor	729 ft rotor	837 ft rotor	787 ft rotor	722 ft rotor	722 ft rotor	
Tip of Blade (from sea level)	1,066 ft	837 ft	1,047 ft	968 ft	873 ft	1,177 ft	
Hub (from sea level)	605 ft	473 ft	630 ft	615 ft	576 ft	853 ft	
Approximate Horizon	214 ft	61 ft	376 ft	574 ft	512 ft	492 ft	
Sea Level							
Year Forecasted for Development	2025	2023	2024 Phase II 2026	2025	2023	2023	
Number of Structures in Lease Area	149	77	120	131	103	18	
Number of Structures within View of KOP	132	77	119	29	19	0	
Distance to Closest Structure	24 mi (38.67 km)	16 mi (25 km)	30 mi (48 km)	37 mi (59 km)	36 mi (57 km)	48 mi (77.45 km)	
Distance to Furthest Structure	49 mi (79 km)	28 mi (46 km)	46 mi (74 km)	61 mi (98 km)	58 mi (93 km)	54 mi (87 km)	

SIMULATED CONDITIONS

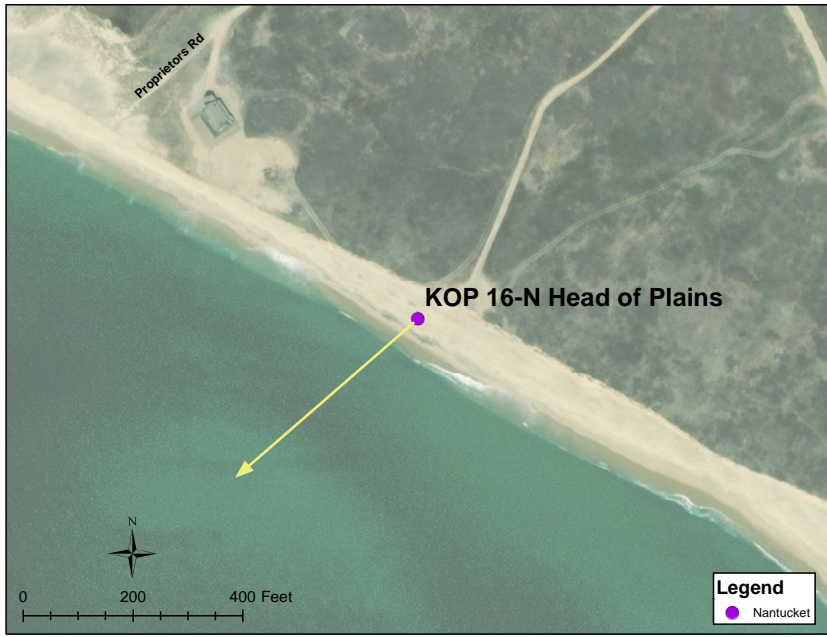
3



REGIONAL MAP



SITE MAP



PROJECT VIEW

Horizontal Field of View: 124°	Furthest Visible WTG: 46 mi / 74 km
Vertical Field of View: 40°	Potential Number of WTGs Visible: 376
Nearest WTG: 16 mi / 25 km	Potential Number of WTGs Not Visible: 222

ENVIRONMENT

Temperature: 66° F
Humidity: 81%
Wind Dir & Speed: SW 21 mph
Weather Condition: Clear

PHOTOGRAPH AND SITE

Time of photograph: 3:54PM	Viewing direction: South (229°)
Date of photograph: 10-7-20	Latitude: 41.341724°N
L/SCA: Ocean Beach, Open Ocean, Dunes	Longitude: 70.179524°W
	Lighting Direction: Sidelit

CAMERA

Camera Elevation: 20.5 ft / 6.3 m
Nikon D4
Nikon 50mm
ISO: 100
Fstop: f/7.1
Shutter: 1/1250 sec
Exposure bias: -0.7 step



The page should viewed at 11" x 17" approximately 15" from viewer's eyes .



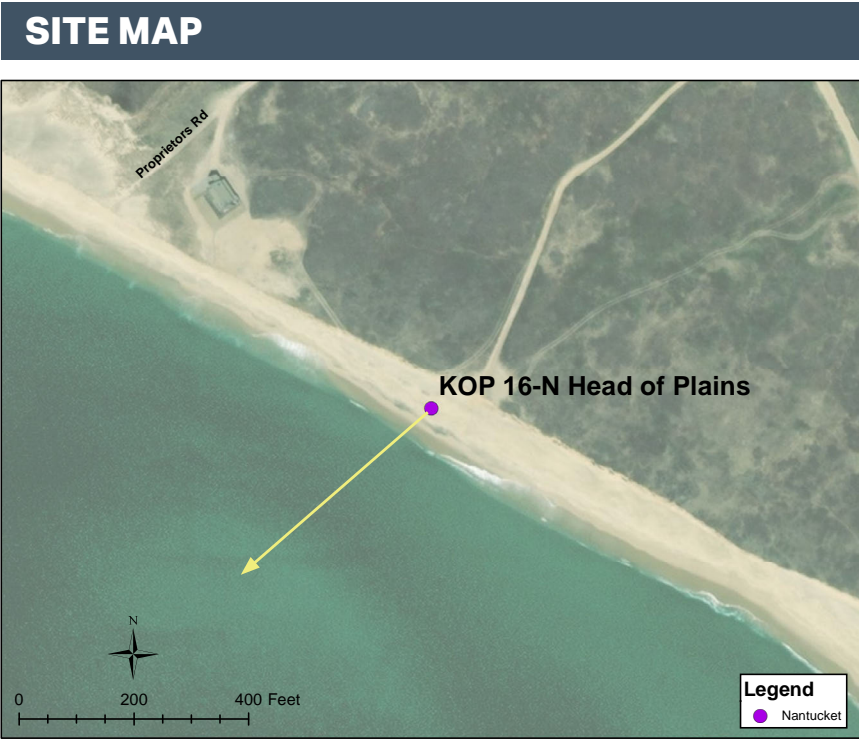
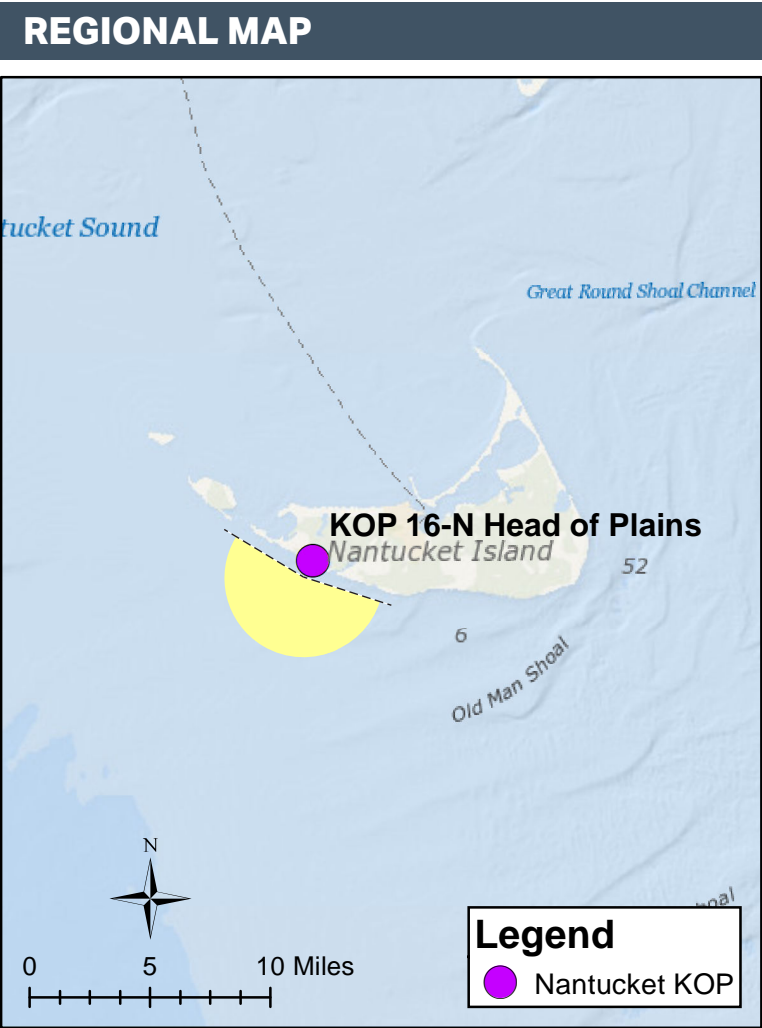
The page should viewed at 11" x 17" approximately 15" from viewer's eyes .



The page should viewed at 11" x 17" approximately 15" from viewer's eyes .

PANORAMIC PHOTOGRAPH - EXISTING CONDITIONS

1



MATCH LINES define visual simulation detail areas

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- BB-BC is shown on page 5
- CC-CD is shown on page 6

PROJECT VIEW

Horizontal Field of View: 193°	Furthest Visible WTG: 46 mi / 74 km
Vertical Field of View: 40°	Potential Number of WTGs Visible: 746
Nearest WTG: 16 mi / 25 km	Potential Number of WTGs Not Visible: 317

PHOTOGRAPH AND SITE

Time of photograph: 3:54PM	Viewing direction: South (229°)
Date of photograph: 10-7-20	Latitude: 41.341724°N
L/SCA: Ocean Beach, Open Ocean, Dunes	Longitude: 70.179524°W
	Lighting Direction: Sidelit

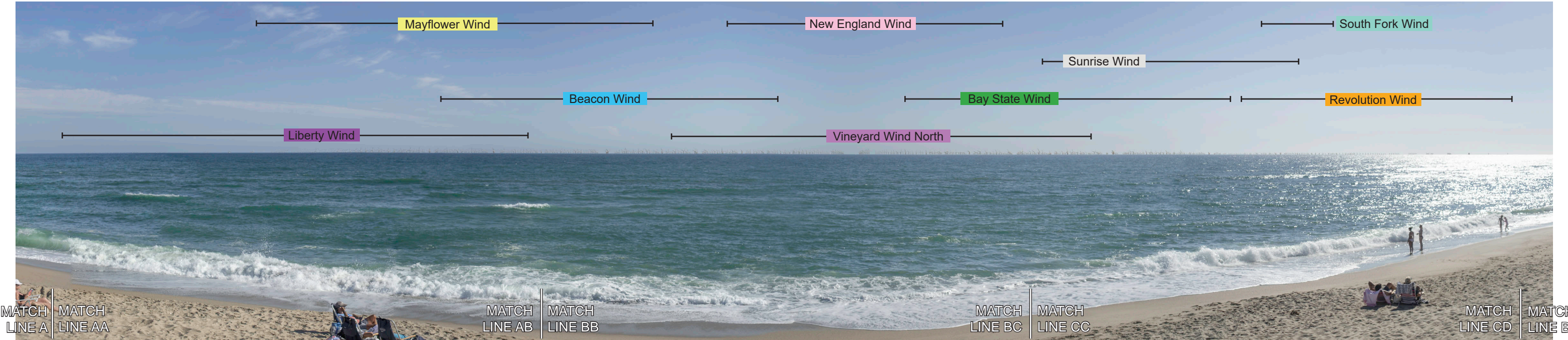
ENVIRONMENT

Temperature: 66° F
Humidity: 81%
Wind Dir & Speed: SW 21 mph
Weather Condition: Clear

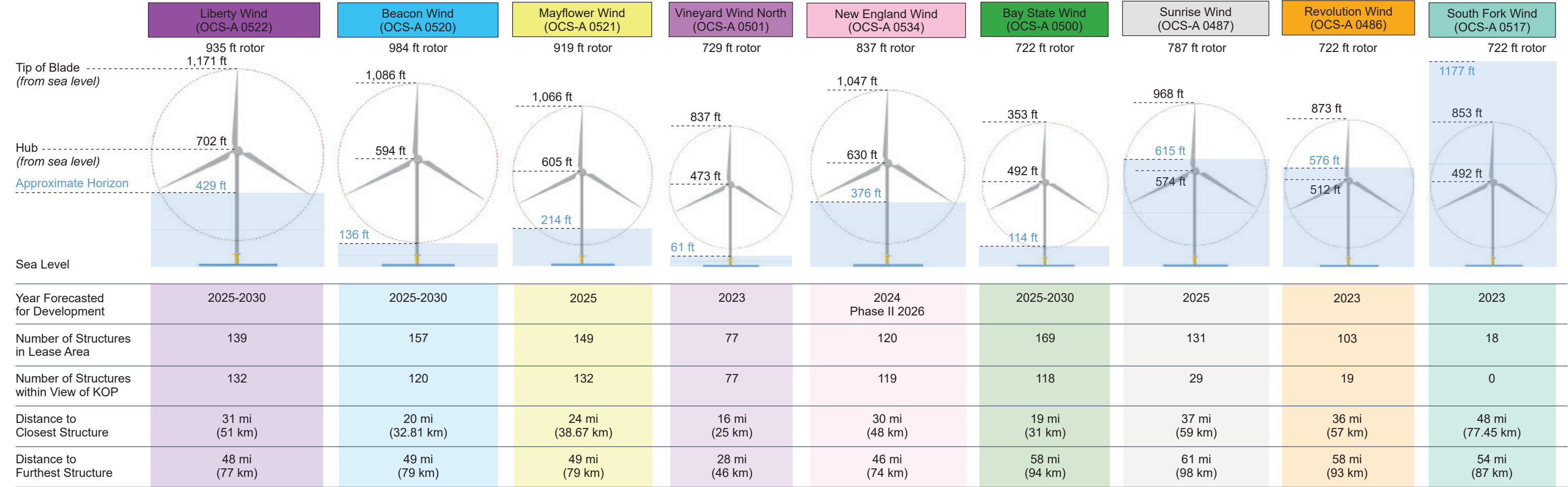
CAMERA

Camera Elevation: 20.5 ft / 6.3 m
Nikon D4
Nikon 50mm
ISO: 100
Fstop: f/7.1
Shutter: 1/1250 sec
Exposure bias: -0.7 step

SIMULATED CONDITIONS2

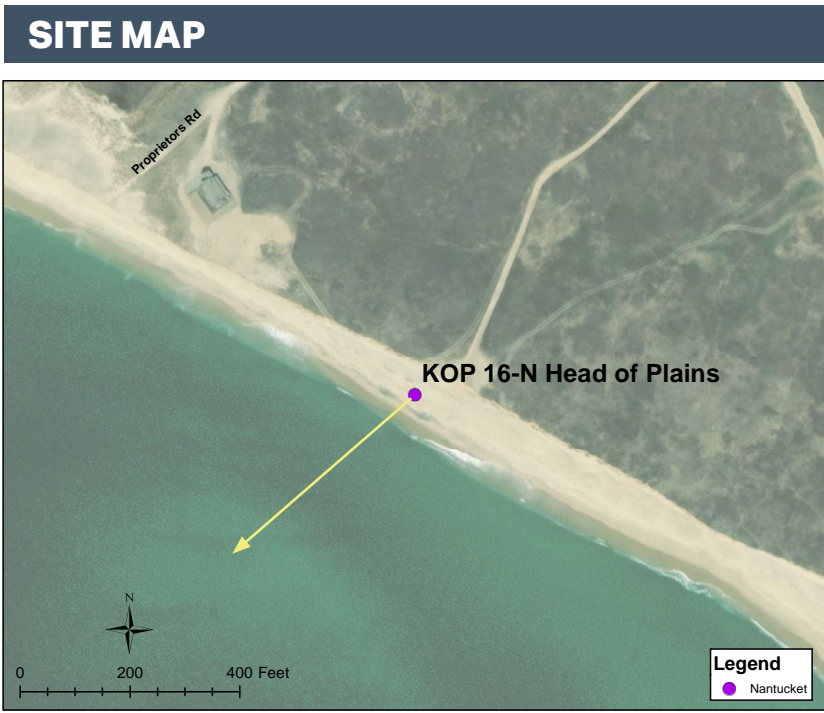
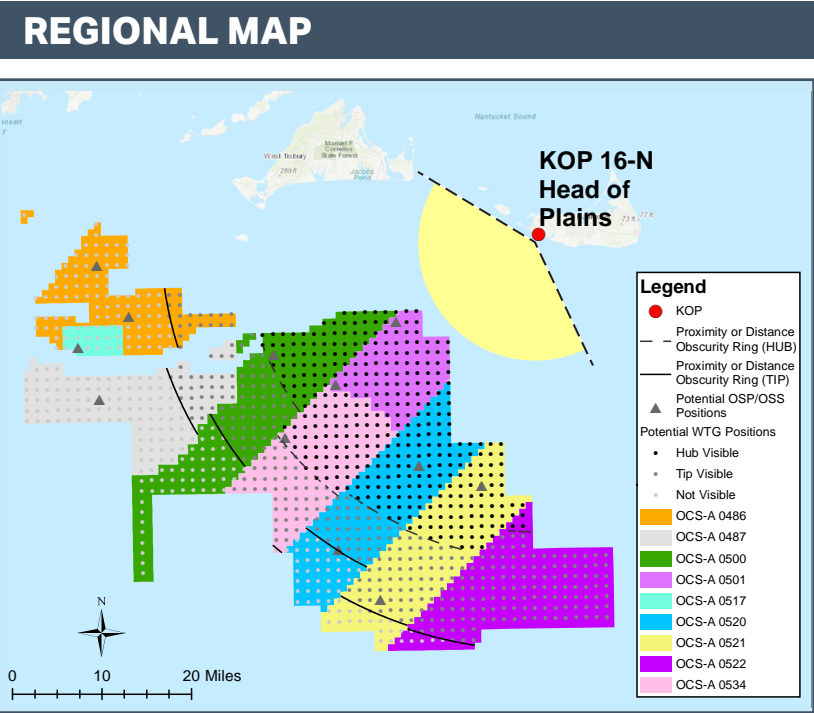
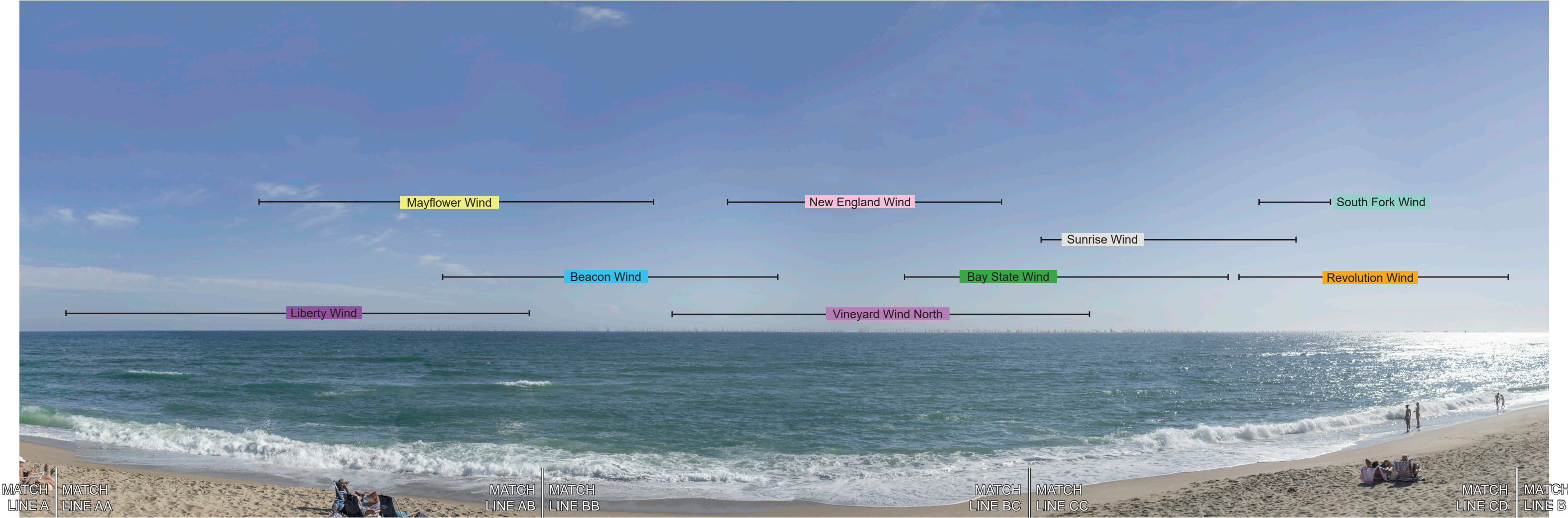


VISIBILTY OF CLOSEST TURBINES



SIMULATED CONDITIONS

3



PROJECT VIEW

Horizontal Field of View: 124°	Furthest Visible WTG: 46 mi / 74 km
Vertical Field of View: 40°	Potential Number of WTGs Visible: 746
Nearest WTG: 16 mi / 25 km	Potential Number of WTGs Not Visible: 317

ENVIRONMENT

Temperature: 66° F
Humidity: 81%
Wind Dir & Speed: SW 21 mph
Weather Condition: Clear

PHOTOGRAPH AND SITE

Time of photograph: 3:54PM	Viewing direction: South (229°)
Date of photograph: 10-7-20	Latitude: 41.341724°N
L/SCA: Ocean Beach, Open Ocean, Dunes	Longitude: 70.179524°W
	Lighting Direction: Sidelit

CAMERA

Camera Elevation: 20.5 ft / 6.3 m
Nikon D4
Nikon 50mm
ISO: 100
Fstop: f/7.1
Shutter: 1/1250 sec
Exposure bias: -0.7 step



The page should viewed at 11" x 17" approximately 15" from viewer's eyes .



The page should viewed at 11" x 17" approximately 15" from viewer's eyes .



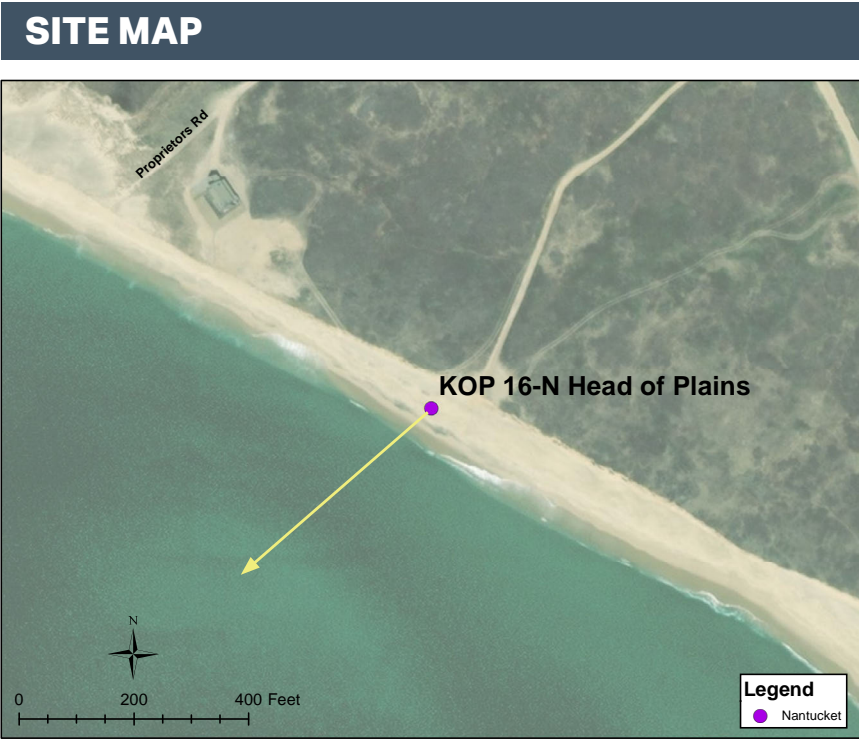
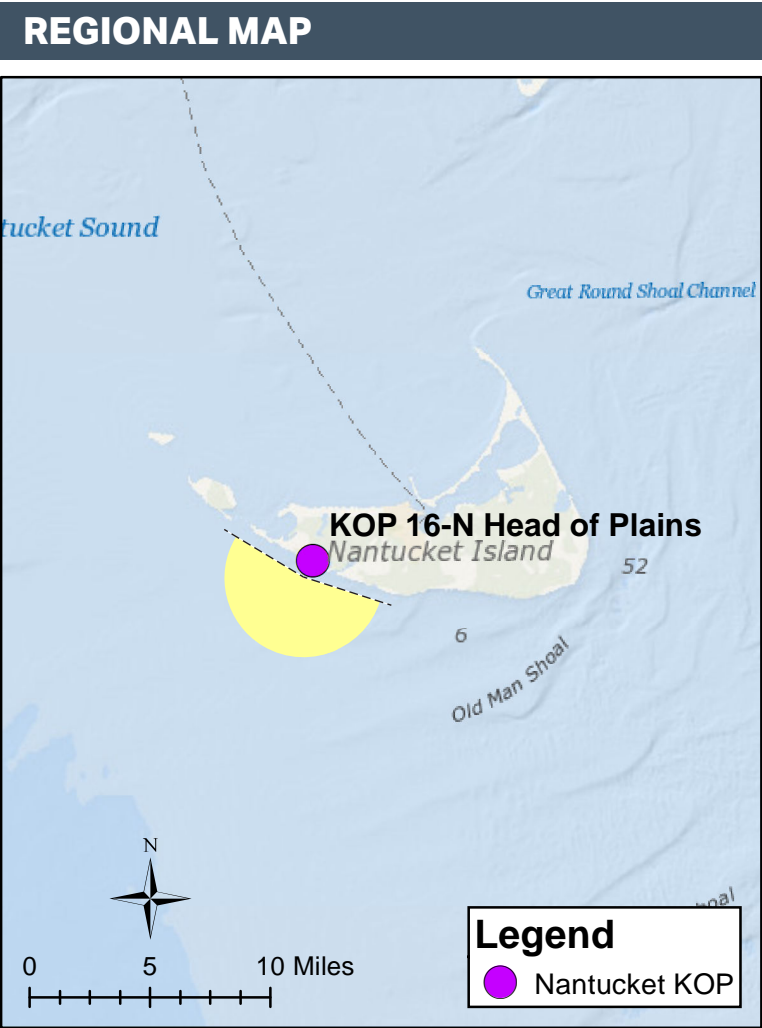
MATCH
LINE BC

MATCH
LINE CD

MATCH
LINE B

PANORAMIC PHOTOGRAPH - EXISTING CONDITIONS

1



MATCH LINES define visual simulation detail areas

A-B is shown on pages 2-3
AA-AB is shown on page 4
BB-BC is shown on page 5
CC-CD is shown on page 6

PROJECT VIEW

Horizontal Field of View: 193°	Furthest Visible WTG: 46 mi / 74 km
Vertical Field of View: 40°	Potential Number of WTGs Visible: 614
Nearest WTG: 16 mi / 25 km	Potential Number of WTGs Not Visible: 300

PHOTOGRAPH AND SITE

Time of photograph: 3:54PM	Viewing direction: South (229°)
Date of photograph: 10-7-20	Latitude: 41.341724°N
L/SCA: Ocean Beach, Open Ocean, Dunes	Longitude: 70.179524°W
	Lighting Direction: Sidelit

ENVIRONMENT

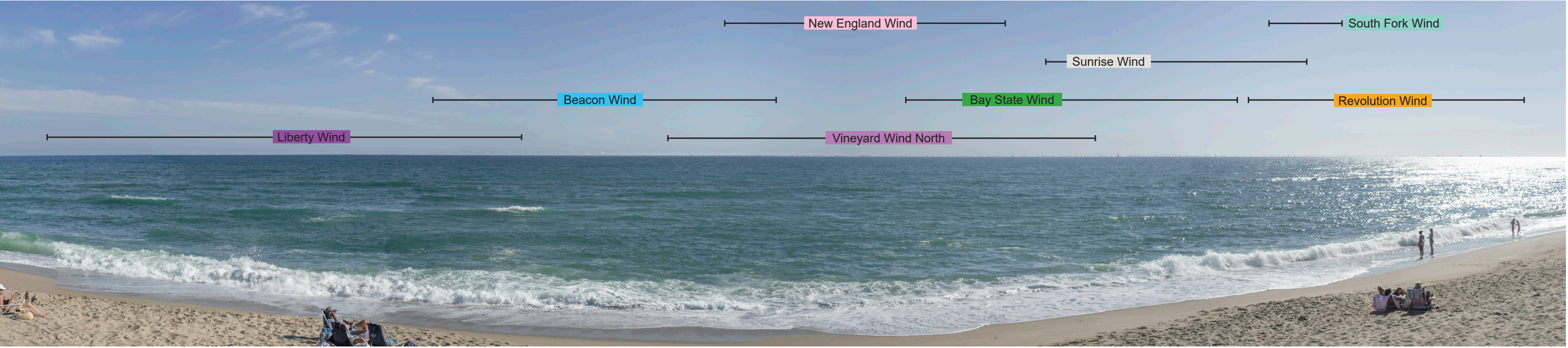
Temperature: 66° F
Humidity: 81%
Wind Dir & Speed: SW 21 mph
Weather Condition: Clear

CAMERA

Camera Elevation: 20.5 ft / 6.3 m
Nikon D4
Nikon 50mm
ISO: 100
Fstop: f/7.1
Shutter: 1/1250 sec
Exposure bias: -0.7 step

SIMULATED CONDITIONS

2

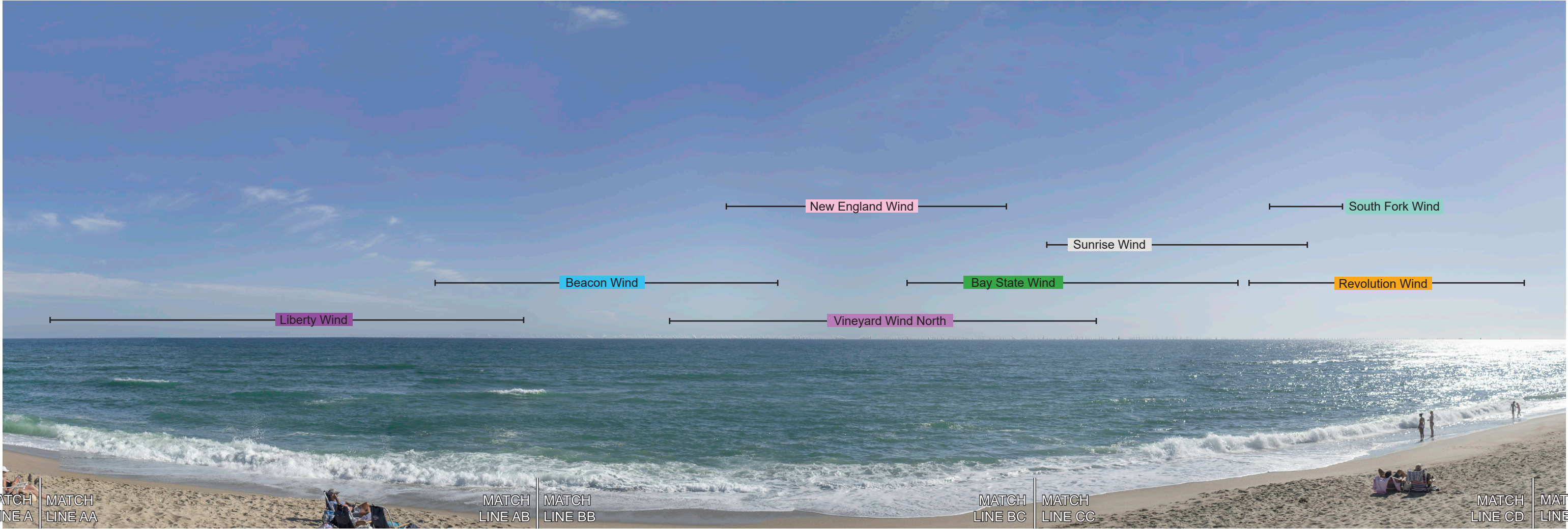


VISIBILTY OF CLOSEST TURBINES

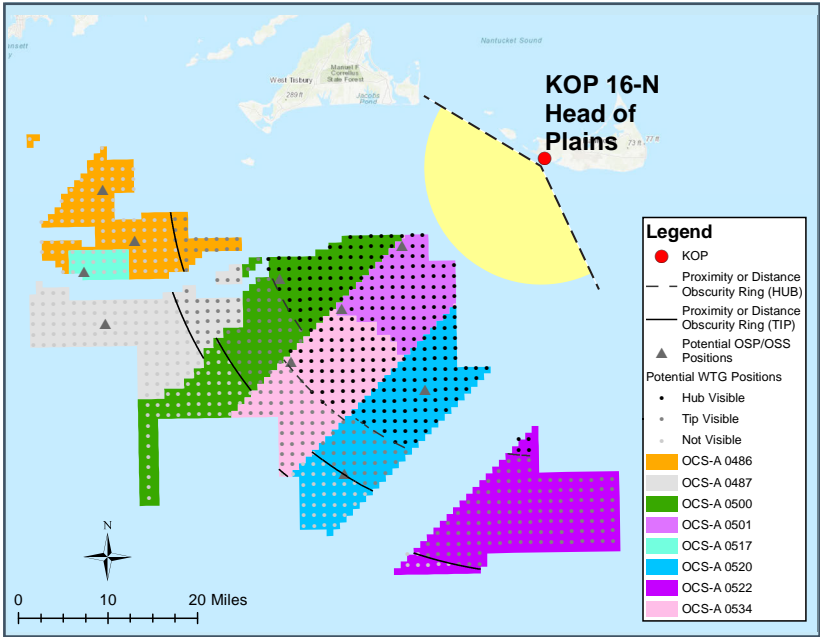
	Liberty Wind (OCS-A 0522)	Beacon Wind (OCS-A 0520)	Vineyard Wind North (OCS-A 0501)	New England Wind (OCS-A 0534)	Bay State Wind (OCS-A 0500)	Sunrise Wind (OCS-A 0487)	Revolution Wind (OCS-A 0486)	South Fork Wind (OCS-A 0517)
	935 ft rotor 1,171 ft	984 ft rotor	729 ft rotor	837 ft rotor	722 ft rotor	787 ft rotor	722 ft rotor	722 ft rotor
Tip of Blade (from sea level)		1,086 ft		1,047 ft		968 ft		1177 ft
Hub (from sea level)	702 ft	594 ft	837 ft	630 ft	353 ft	615 ft	873 ft	853 ft
Approximate Horizon	429 ft		473 ft	376 ft	492 ft	574 ft	576 ft	492 ft
Sea Level		136 ft	61 ft		114 ft		512 ft	
Year Forecasted for Development	2025-2030	2025-2030	2023	2024 Phase II 2026	2025-2030	2025	2023	2023
Number of Structures in Lease Area	139	157	77	120	169	131	103	18
Number of Structures within View of KOP	132	120	77	119	118	29	19	0
Distance to Closest Structure	31 mi (51 km)	20 mi (32.81 km)	16 mi (25 km)	30 mi (48 km)	19 mi (31 km)	37 mi (59 km)	36 mi (57 km)	48 mi (77.45 km)
Distance to Furthest Structure	48 mi (77 km)	49 mi (79 km)	28 mi (46 km)	46 mi (74 km)	58 mi (94 km)	61 mi (98 km)	58 mi (93 km)	54 mi (87 km)

SIMULATED CONDITIONS

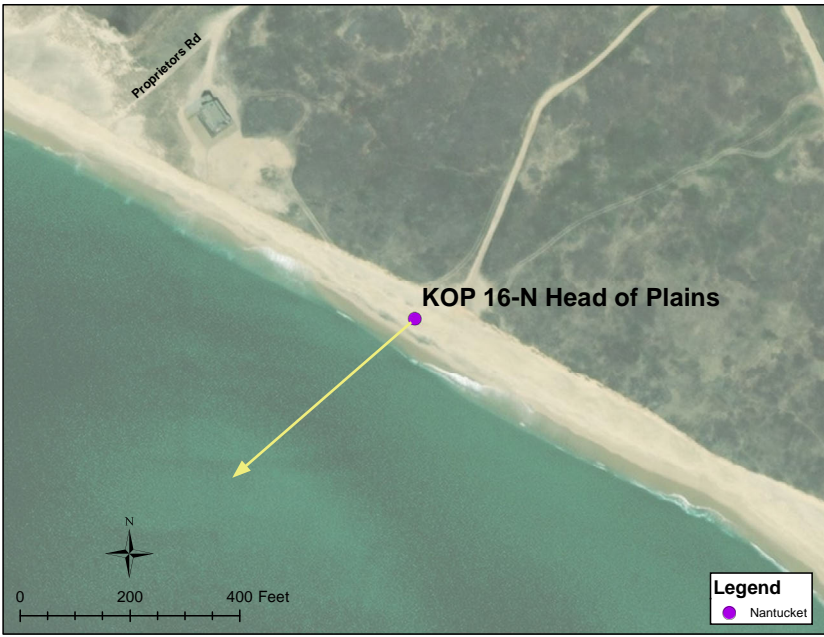
3



REGIONAL MAP



SITE MAP



PROJECT VIEW

Horizontal Field of View: 124°	Furthest Visible WTG: 46 mi / 74 km
Vertical Field of View: 40°	Potential Number of WTGs Visible: 614
Nearest WTG: 16 mi / 25 km	Potential Number of WTGs Not Visible: 300

ENVIRONMENT

Temperature: 66° F
Humidity: 81%
Wind Dir & Speed: SW 21 mph
Weather Condition: Clear

PHOTOGRAPH AND SITE

Time of photograph: 3:54PM	Viewing direction: South (229°)
Date of photograph: 10-7-20	Latitude: 41.341724°N
L/SCA: Ocean Beach, Open Ocean, Dunes	Longitude: 70.179524°W
	Lighting Direction: Sidelit

CAMERA

Camera Elevation: 20.5 ft / 6.3 m
Nikon D4
Nikon 50mm
ISO: 100
Fstop: f/7.1
Shutter: 1/1250 sec
Exposure bias: -0.7 step



The page should viewed at 11" x 17" approximately 15" from viewer's eyes .



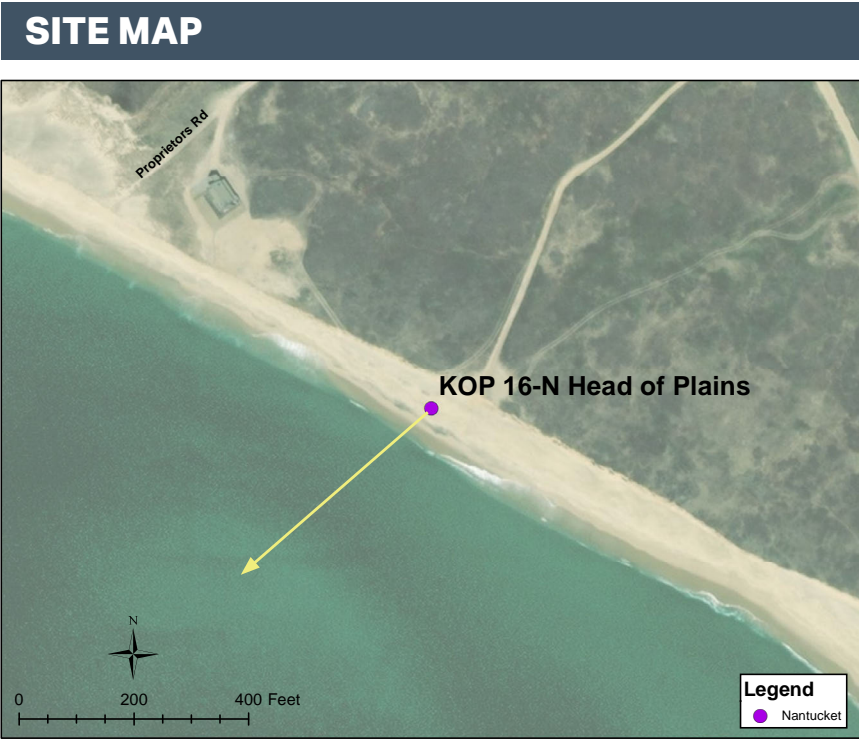
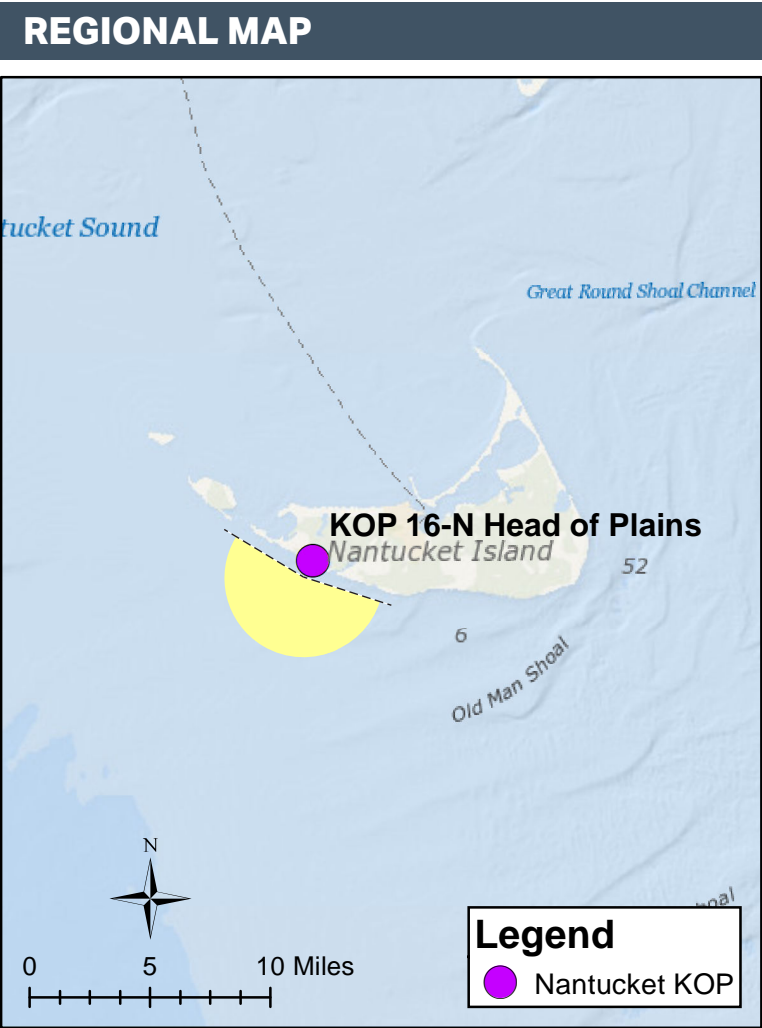
The page should viewed at 11" x 17" approximately 15" from viewer's eyes .



The page should viewed at 11" x 17" approximately 15" from viewer's eyes .

PANORAMIC PHOTOGRAPH - EXISTING CONDITIONS

1



MATCH LINES define visual simulation detail areas

- A-B is shown on pages 2-3
- AA-AB is shown on page 4
- BB-BC is shown on page 5
- CC-CD is shown on page 6

PROJECT VIEW

Horizontal Field of View: 193°	Furthest Visible WTG: 46 mi / 74 km
Vertical Field of View: 40°	Potential Number of WTGs Visible: 132
Nearest WTG: 24 mi / 38 km	Potential Number of WTGs Not Visible: 17

PHOTOGRAPH AND SITE

Time of photograph: 3:54 PM	Viewing direction: South (229°)
Date of photograph: 10-7-20	Latitude: 41.341724°N
L/SCA: Ocean Beach, Open Ocean, Dunes	Longitude: 70.179524°W
	Lighting Direction: Sidelit

ENVIRONMENT

Temperature: 66° F
Humidity: 81%
Wind Dir & Speed: SW 21 mph
Weather Condition: Clear

CAMERA

Camera Elevation: 20.5 ft / 6.3 m
Nikon D4
Nikon 50mm
ISO: 100
Fstop: f/7.1
Shutter: 1/1250 sec
Exposure bias: -0.7 step

SIMULATED CONDITIONS

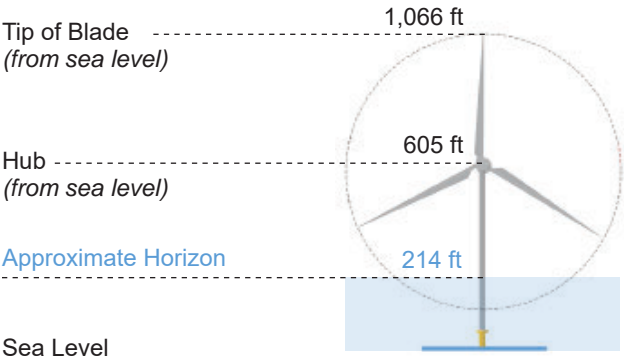
2



VISIBILTY OF CLOSEST TURBINES

Mayflower Wind
(OCS-A 0521)

919 ft rotor



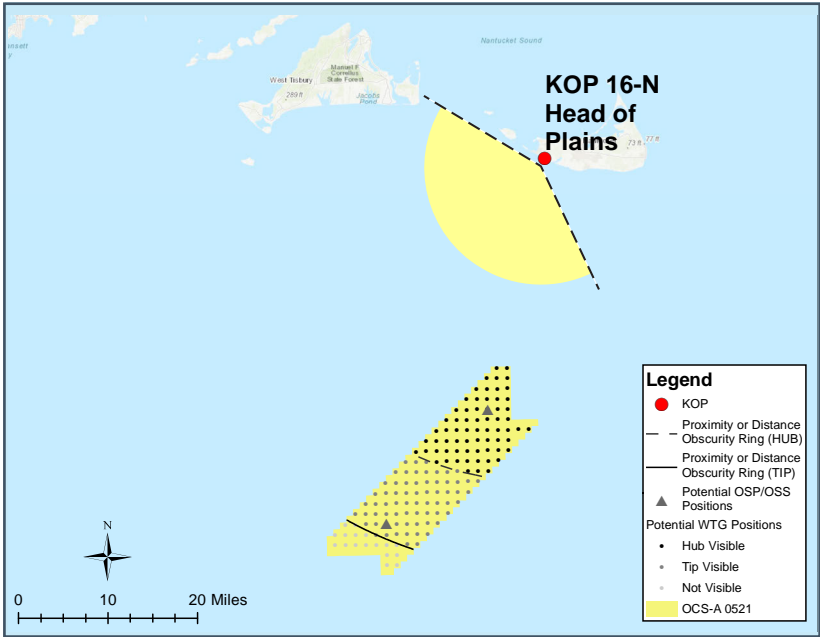
Year Forecasted for Development	2025	
Number of Structures in Lease Area	149	
Number of Structures within View of KOP	132	
Distance to Closest Structure	24 mi (38.67 km)	
Distance to Furthest Structure	49 mi (79 km)	

SIMULATED CONDITIONS

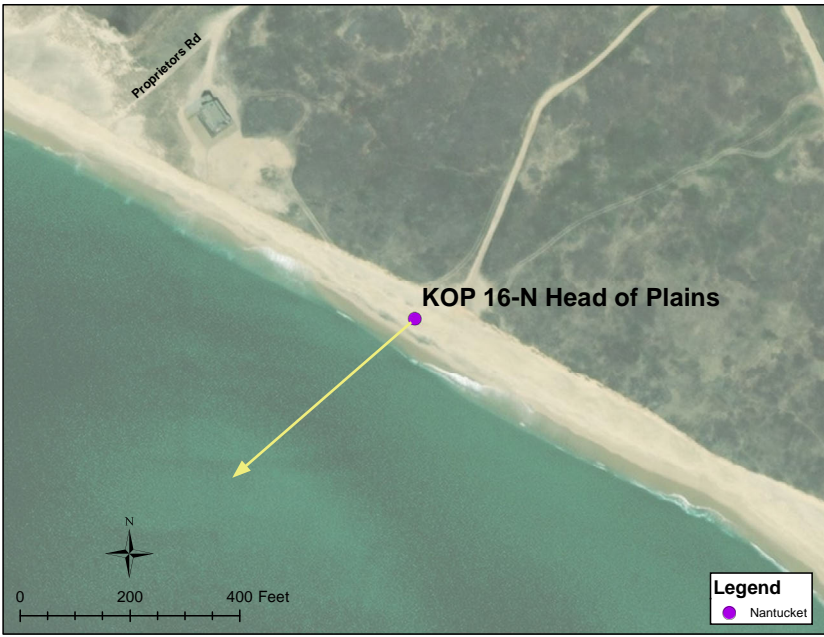
3



REGIONAL MAP



SITE MAP



PROJECT VIEW

Horizontal Field of View: 124°	Furthest Visible WTG: 49 mi / 79 km
Vertical Field of View: 40°	Potential Number of WTGs Visible: 132
Nearest WTG: 24 mi / 39 km	Potential Number of WTGs Not Visible: 17

ENVIRONMENT

Temperature: 66° F
Humidity: 81%
Wind Dir & Speed: SW 21 mph
Weather Condition: Clear

PHOTOGRAPH AND SITE

Time of photograph: 3:54PM	Viewing direction: South (229°)
Date of photograph: 10-7-20	Latitude: 41.341724°N
L/SCA: Ocean Beach, Open Ocean, Dunes	Longitude: 70.179524°W
	Lighting Direction: Sidelit

CAMERA

Camera Elevation: 20.5 ft / 6.3 m
Nikon D4
Nikon 50mm
ISO: 100
Fstop: f/7.1
Shutter: 1/1250 sec
Exposure bias: -0.7 step



The page should viewed at 11" x 17" approximately 15" from viewer's eyes .



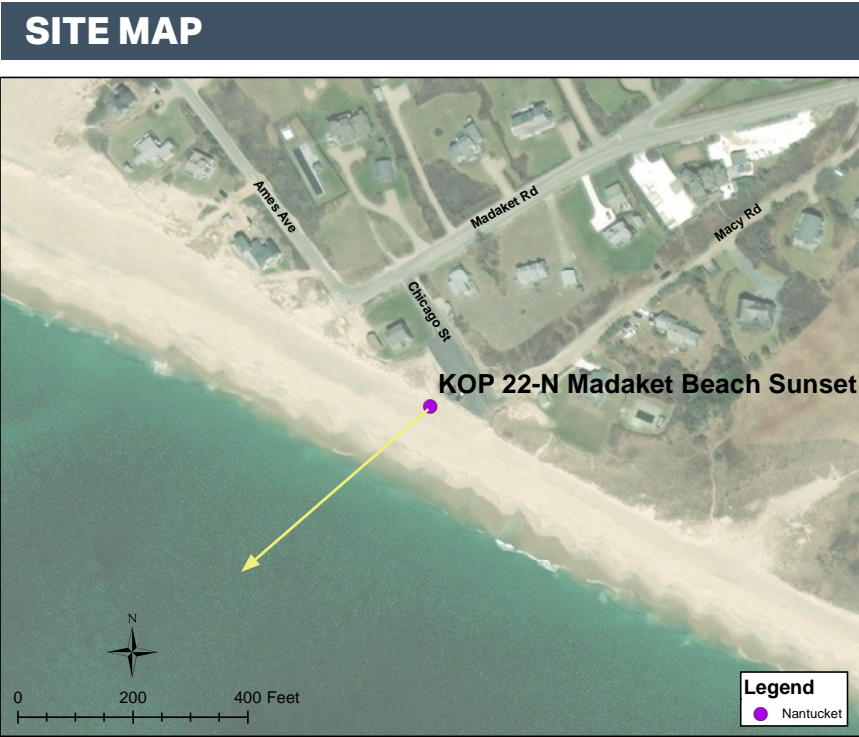
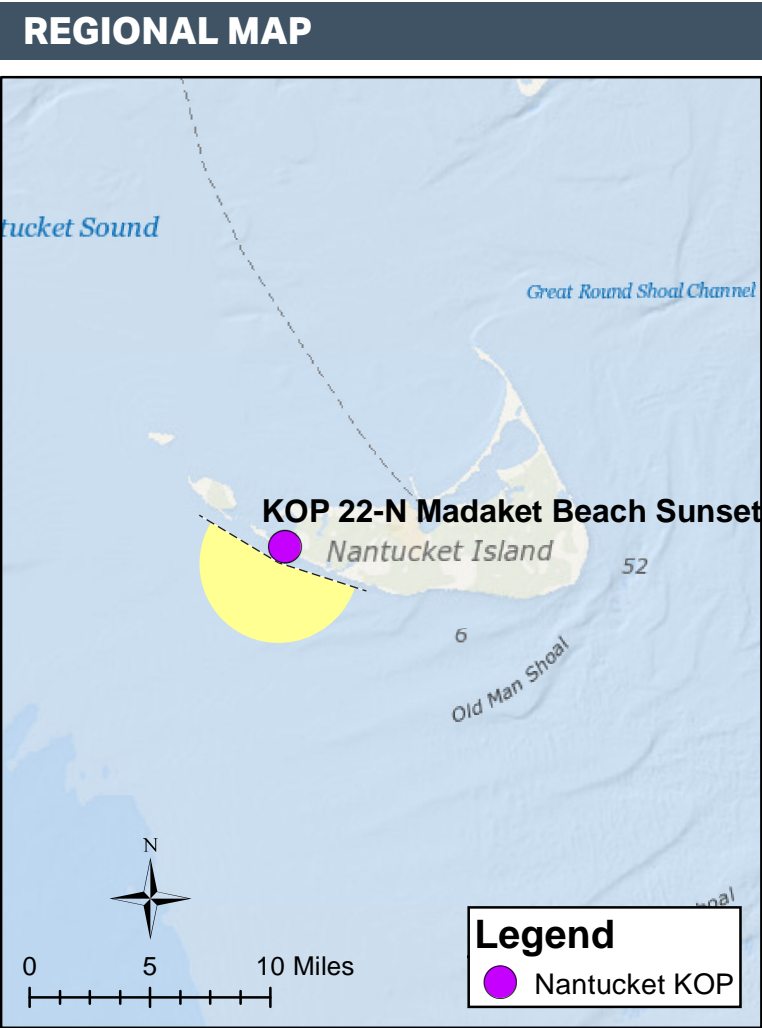
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The page should viewed at 11" x 17" approximately 15" from viewer's eyes .

PANORAMIC PHOTOGRAPH - EXISTING CONDITIONS

1



MATCH LINES define visual simulation detail areas

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- BB-BC is shown on page 5
- CC-CD is shown on page 6

PROJECT VIEW

Horizontal Field of View: 193°	Furthest Visible WTG: 45 mi / 72 km
Vertical Field of View: 40°	Potential Number of Structures Visible: 249
Nearest WTG: 15 mi / 25 km	Potential Number of Structures Not Visible: 200

PHOTOGRAPH AND SITE

Time of photograph: 6:11PM	Viewing direction: South (228°)
Date of photograph: 7-29-20	Latitude: 41.270282°N
L/SCA: Ocean beach	Longitude: 70.201719°W
	Lighting Direction: Backlit diffused

ENVIRONMENT

Temperature: 74° F
Humidity: 79%
Wind Dir & Speed: WNW 3 mph
Weather Condition: Clear

CAMERA

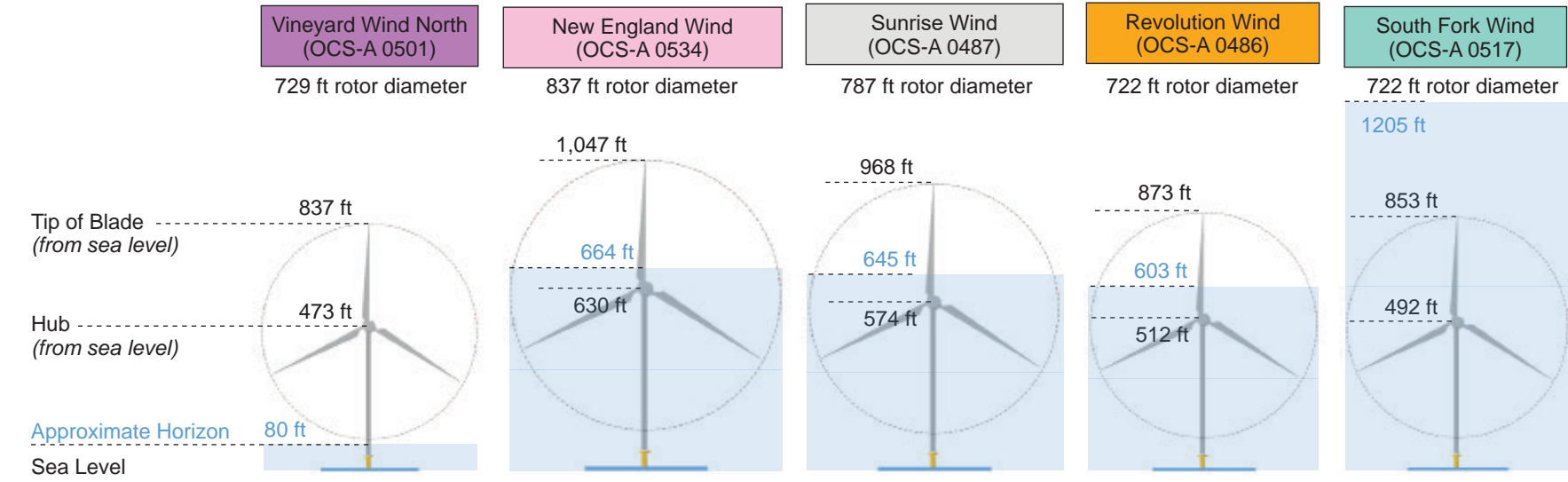
Camera Elevation: 13.5 ft / 4.1 m
Nikon D4
Nikon 50mm
ISO: 100
Fstop: f/7.1
Shutter: 1/1250 sec
Exposure bias: -0.7 step

SIMULATED CONDITIONS

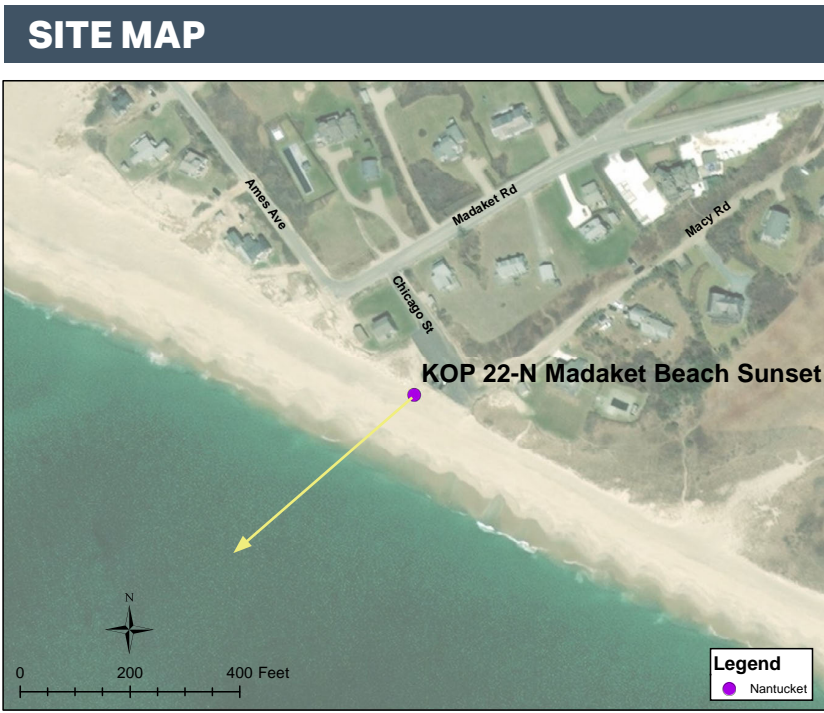
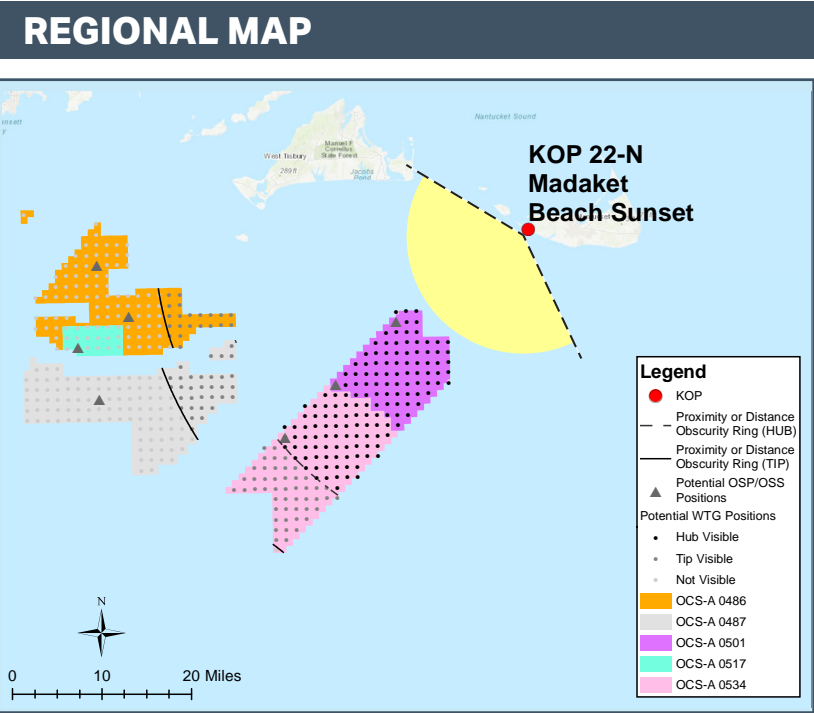
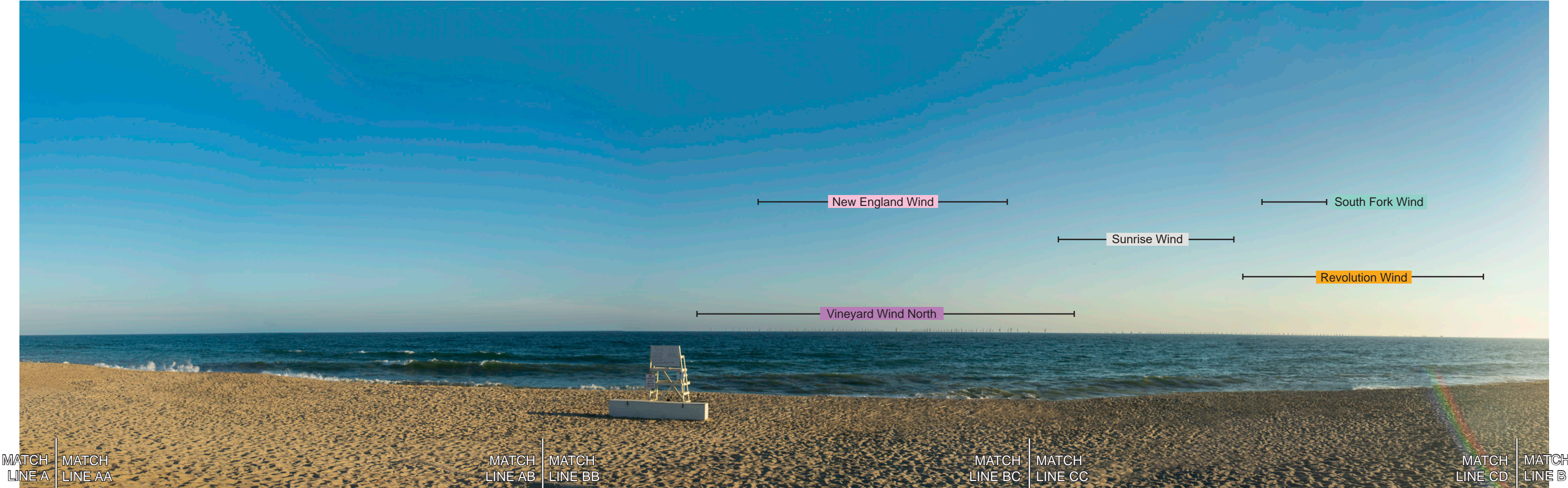
2



VISIBILTY OF CLOSEST TURBINES



Year Forecasted for Development	2023	2024 Phase II 2026	2025	2023	2023	
Number of Structures in Lease Area	77	120	131	103	18	
Number of Structures within View of KOP	77	119	32	21	0	
Distance to Closest Structure	15 mi (25 km)	36 mi (58 km)	36 mi (57 km)	35 mi (56 km)	47 mi (76 km)	
Distance to Furthest Structure	28 mi (45 km)	45 mi (72 km)	43.73 mi (70 km)	42 mi (67 km)	53 mi (85 km)	



PROJECT VIEW

Horizontal Field of View: 124°	Furthest Visible WTG: 45 mi / 72 km
Vertical Field of View: 40°	Potential Number of Structures Visible: 249
Nearest WTG: 15 mi / 25 km	Potential Number of Structures Not Visible: 200

ENVIRONMENT

Temperature: 74° F
Humidity: 79%
Wind Dir & Speed: WNW 3 mph
Weather Condition: Clear

PHOTOGRAPH AND SITE

Time of photograph: 6:11PM	Viewing direction: South (228°)
Date of photograph: 7-29-20	Latitude: 41.270282°N
L/SCA: Ocean beach	Longitude: 70.201719°W
	Lighting Direction: Backlit diffused

CAMERA

Camera Elevation: 13.5 ft / 4.1 m
Nikon D4
Nikon 50mm
ISO: 100
Fstop: f/7.1
Shutter: 1/1250 sec
Exposure bias: -0.7 step



The page should viewed at 11" x 17" approximately 15" from viewer's eyes .



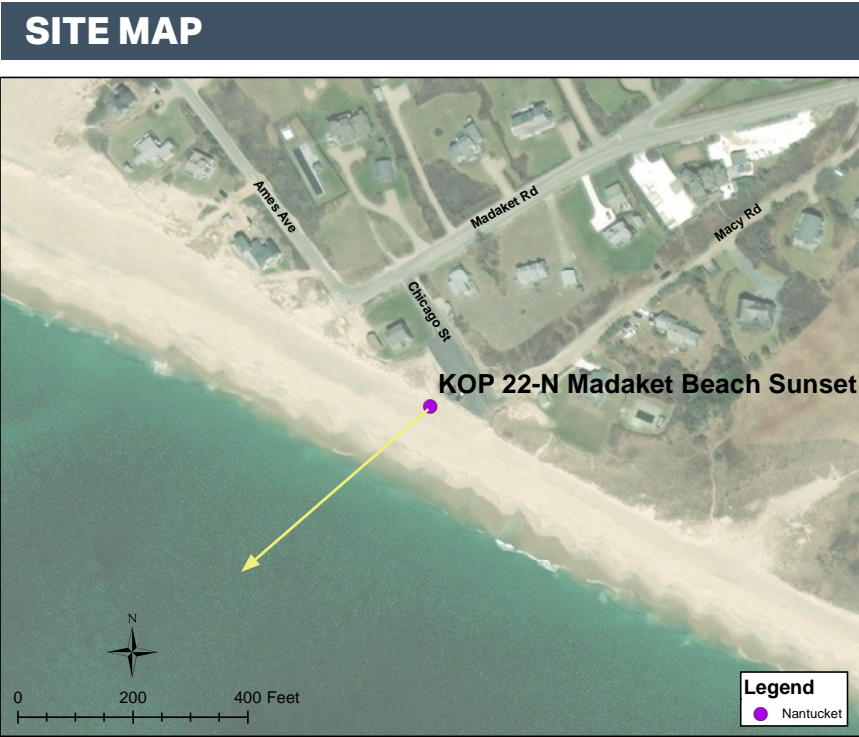
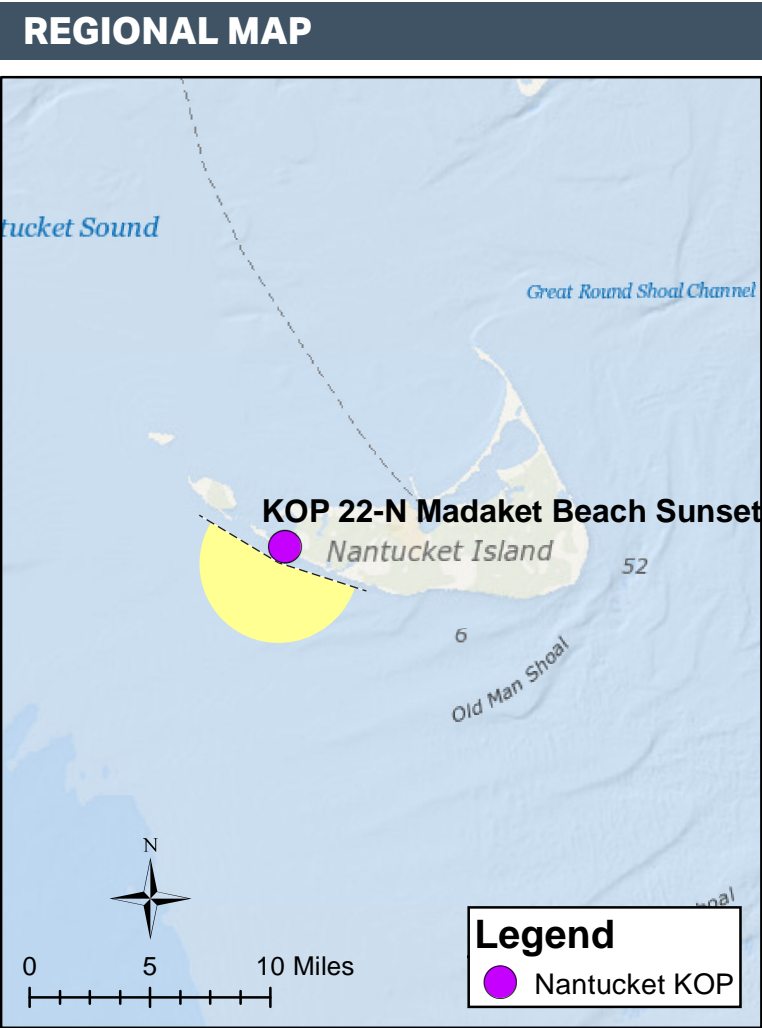
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The page should viewed at 11" x 17" approximately 15" from viewer's eyes .

PANORAMIC PHOTOGRAPH - EXISTING CONDITIONS

1



MATCH LINES define visual simulation detail areas

- A-B is shown on pages 2-3
- AA-AB is shown on page 4
- BB-BC is shown on page 5
- CC-CD is shown on page 6

PROJECT VIEW

Horizontal Field of View: 193°	Furthest Visible WTG: 46 mi / 73 km
Vertical Field of View: 40°	Potential Number of Structures Visible: 378
Nearest WTG: 15 mi / 25 km	Potential Number of Structures Not Visible: 220

PHOTOGRAPH AND SITE

Time of photograph: 6:11 PM	Viewing direction: South (228°)
Date of photograph: 7-29-20	Latitude: 41.270282°N
L/SCA: Ocean beach	Longitude: 70.201719°W
	Lighting Direction: Backlit diffused

ENVIRONMENT

Temperature: 74° F
Humidity: 79%
Wind Dir & Speed: WNW 3 mph
Weather Condition: Clear

CAMERA

Camera Elevation: 13.5 ft / 4.1 m
Nikon D4
Nikon 50mm
ISO: 100
Fstop: f/7.1
Shutter: 1/1250 sec
Exposure bias: -0.7 step

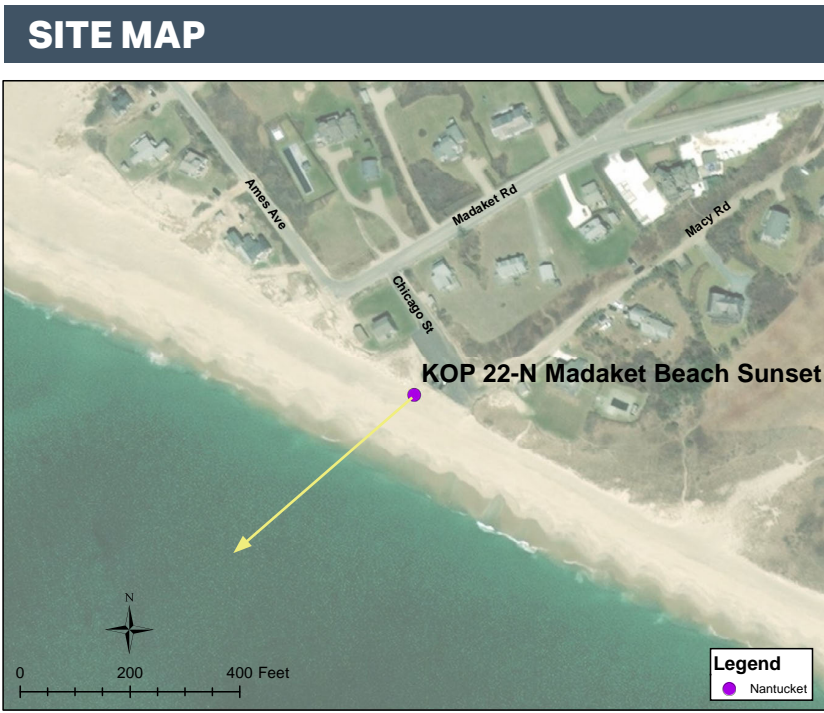
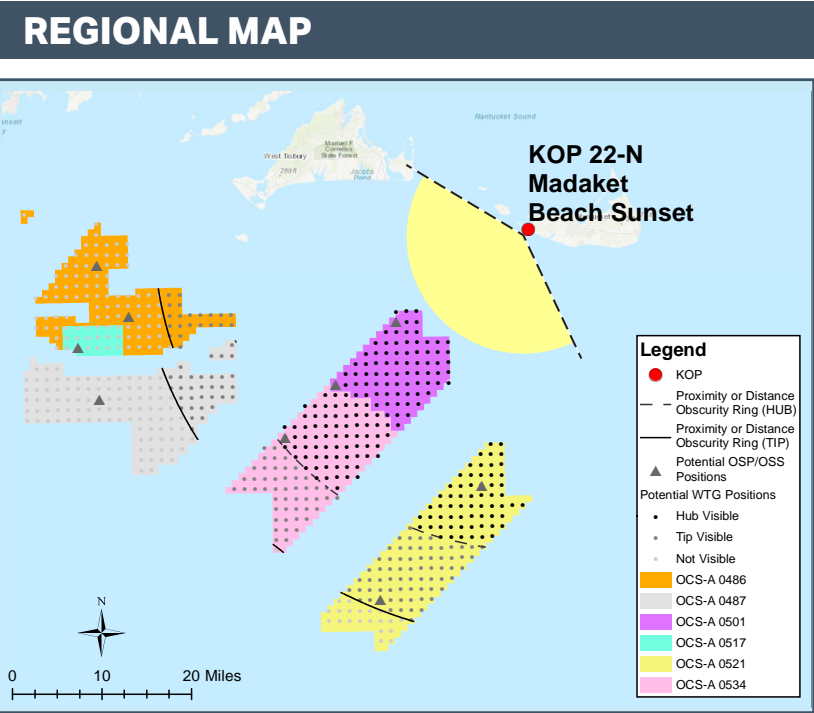
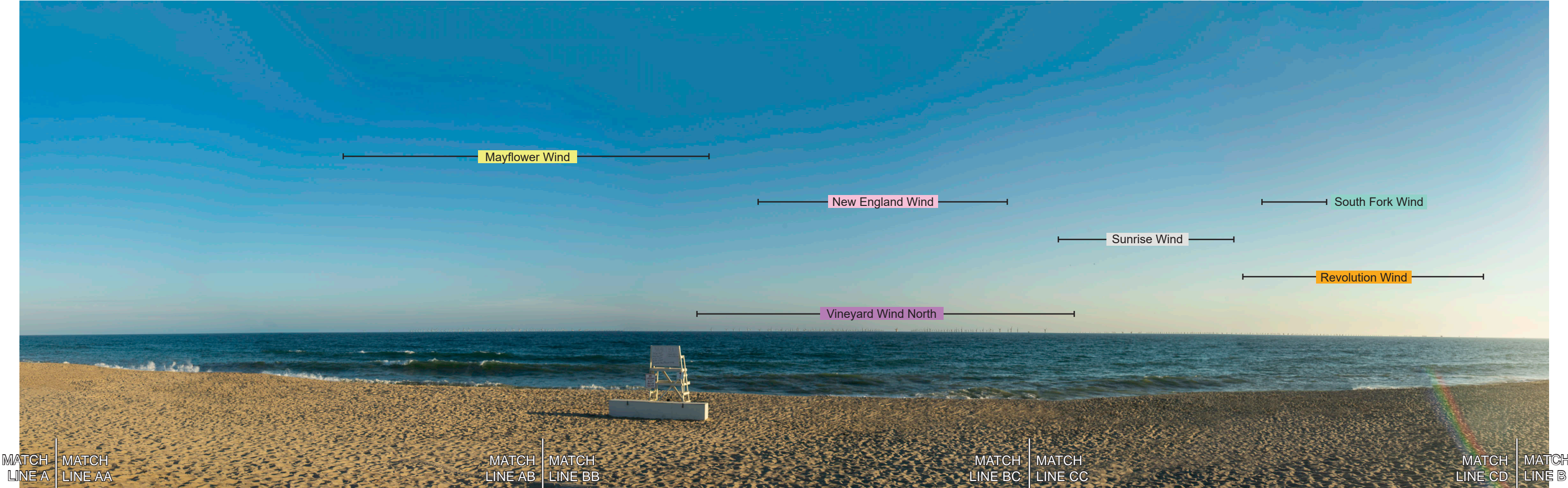
SIMULATED CONDITIONS

2



VISIBILTY OF CLOSEST TURBINES

	Mayflower Wind (OCS-A 0521)	Vineyard Wind North (OCS-A 0501)	New England Wind (OCS-A 0534)	Sunrise Wind (OCS-A 0487)	Revolution Wind (OCS-A 0486)	South Fork Wind (OCS-A 0517)	
	919 ft rotor diameter	729 ft rotor diameter	837 ft rotor diameter	787 ft rotor diameter	722 ft rotor diameter	722 ft rotor diameter	
Tip of Blade (from sea level)	1,066 ft	837 ft	1,047 ft	968 ft	873 ft	1205 ft	
Hub (from sea level)	605 ft	473 ft	630 ft	574 ft	512 ft	492 ft	
Approximate Horizon	264 ft	80 ft					
Sea Level							
Year Forecasted for Development	2025	2023	2024 Phase II 2026	2025	2023	2023	
Number of Structures in Lease Area	149	77	120	131	103	18	
Number of Structures within View of KOP	129	77	119	32	21	0	
Distance to Closest Structure	24 mi (39 km)	15 mi (25 km)	36 mi (58 km)	36 mi (57 km)	35 mi (56 km)	47 mi (76 km)	
Distance to Furthest Structure	46 mi (73 km)	28 mi (45 km)	45 mi (72 km)	43.73 mi (70 km)	42 mi (67 km)	53 mi (85 km)	



PROJECT VIEW

Horizontal Field of View: 124°	Furthest Visible WTG: 46 mi / 73 km
Vertical Field of View: 40°	Potential Number of Structures Visible: 378
Nearest WTG: 15 mi / 25 km	Potential Number of Structures Not Visible: 220

ENVIRONMENT

Temperature: 74° F
Humidity: 79%
Wind Dir & Speed: WNW 3 mph
Weather Condition: Clear

PHOTOGRAPH AND SITE

Time of photograph: 6:11PM	Viewing direction: South (228°)
Date of photograph: 7-29-20	Latitude: 41.270282°N
L/SCA: Ocean beach	Longitude: 70.201719°W
	Lighting Direction: Backlit diffused

CAMERA

Camera Elevation: 13.5 ft / 4.1 m
Nikon D4
Nikon 50mm
ISO: 100
Fstop: f/7.1
Shutter: 1/1250 sec
Exposure bias: -0.7 step



MATCH
LINE A

MATCH
LINE AB

MATCH
LINE BB



MATCH
LINE AB

MATCH
LINE BB

MATCH
LINE BC

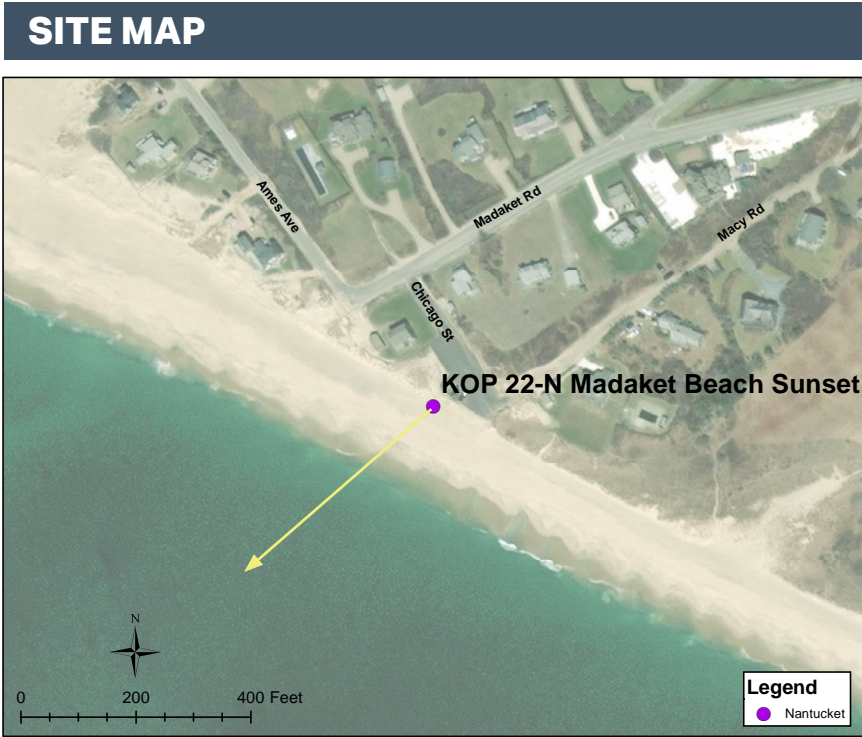
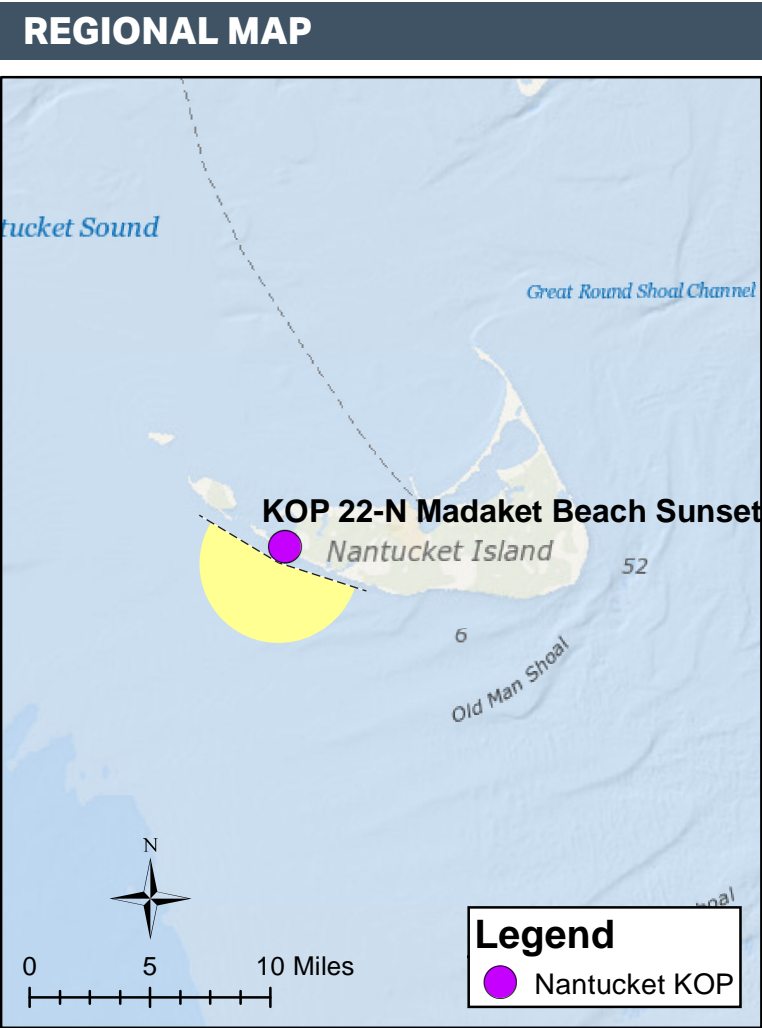
MATCH
LINE CC



The page should viewed at 11" x 17" approximately 15" from viewer's eyes .

PANORAMIC PHOTOGRAPH - EXISTING CONDITIONS

1



MATCH LINES define visual simulation detail areas

A-B is shown on pages 2-3
AA-AB is shown on page 4
BB-BC is shown on page 5
CC-CD is shown on page 6

PROJECT VIEW

Horizontal Field of View: 193°	Furthest Visible WTG: 46 mi / 74 km
Vertical Field of View: 40°	Potential Number of Structures Visible: 743
Nearest WTG: 15 mi / 25 km	Potential Number of Structures Not Visible: 320

PHOTOGRAPH AND SITE

Time of photograph: 6:11 PM	Viewing direction: South (228°)
Date of photograph: 7-29-20	Latitude: 41.270282°N
L/SCA: Ocean beach	Longitude: 70.201719°W
	Lighting Direction: Backlit diffused

ENVIRONMENT

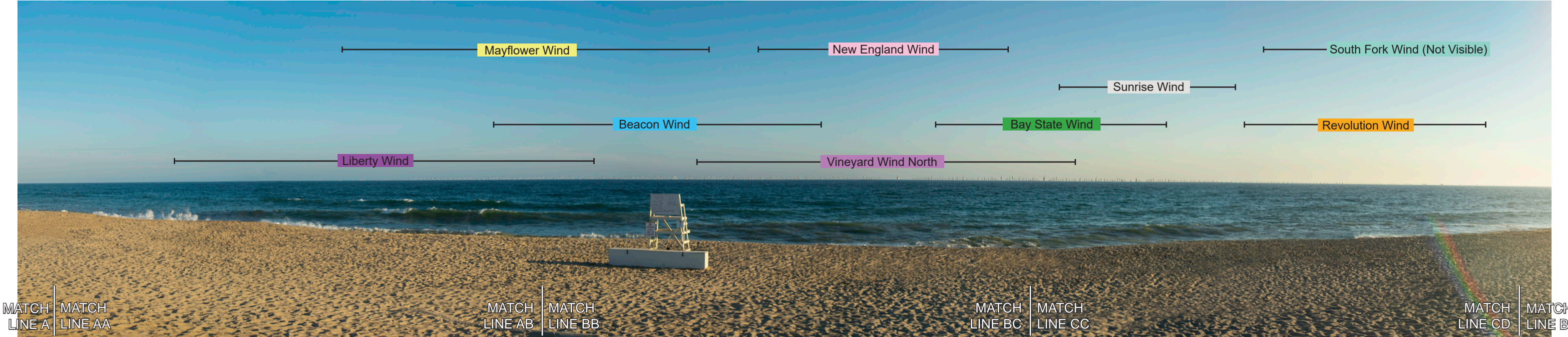
Temperature: 74° F
Humidity: 79%
Wind Dir & Speed: WNW 3 mph
Weather Condition: Clear

CAMERA

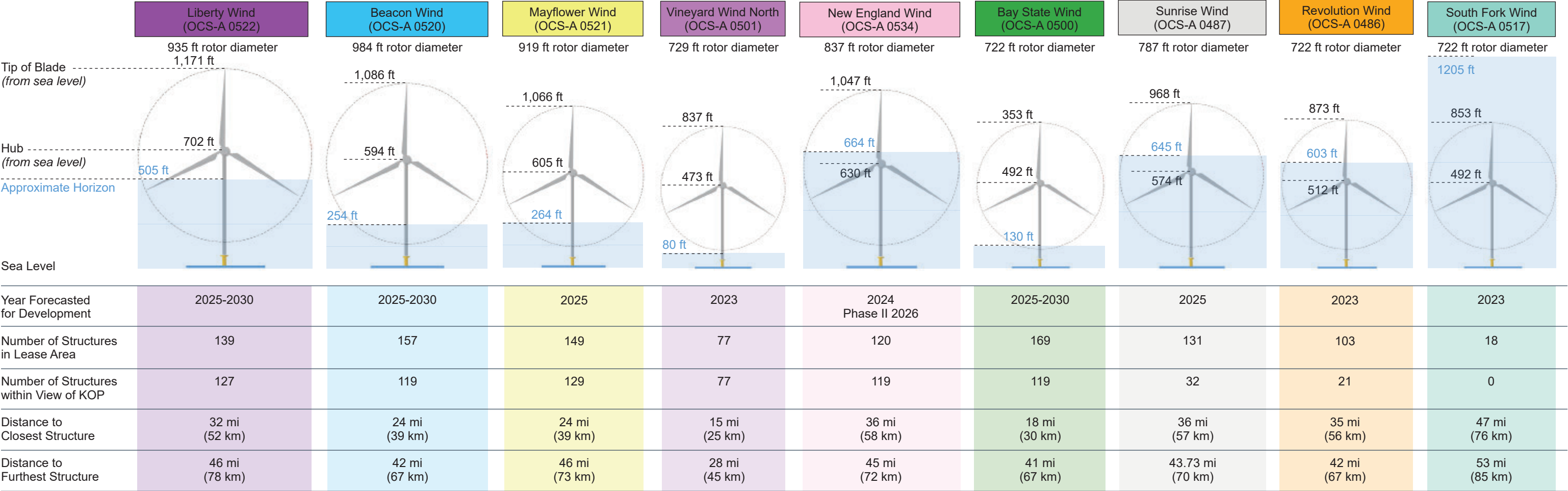
Camera Elevation: 13.5 ft / 4.1 m
Nikon D4
Nikon 50mm
ISO: 100
Fstop: f/7.1
Shutter: 1/1250 sec
Exposure bias: -0.7 step

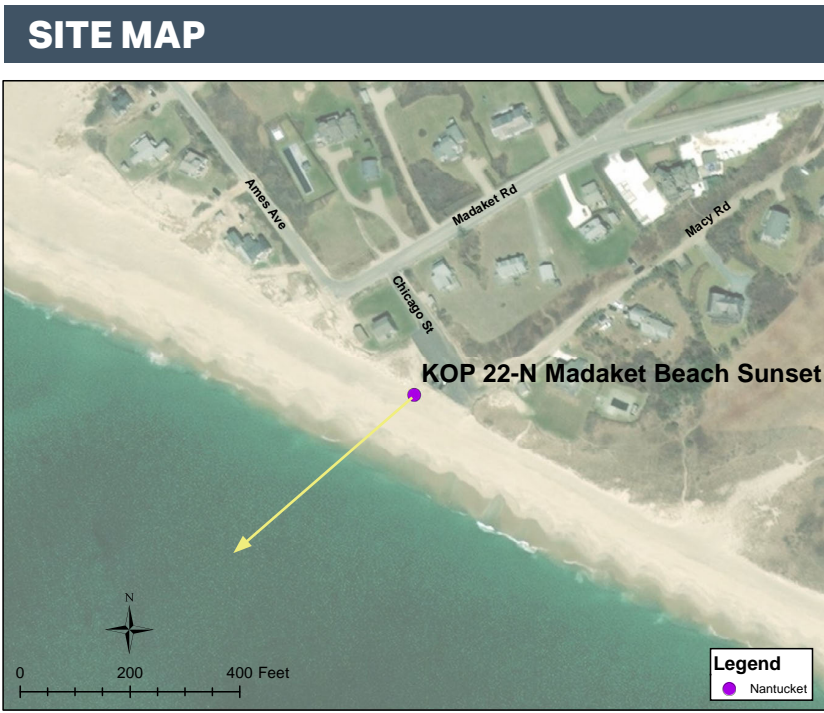
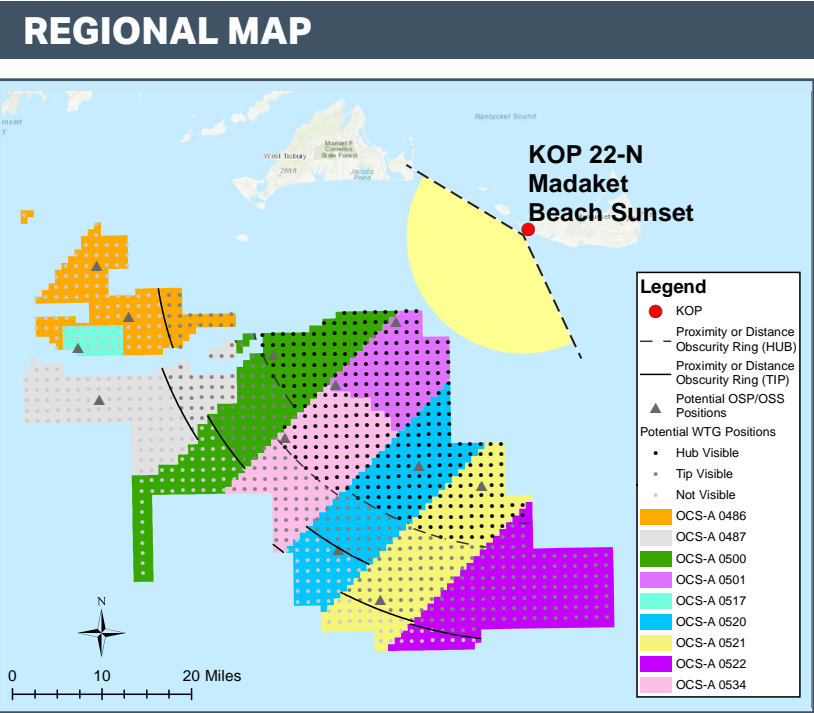
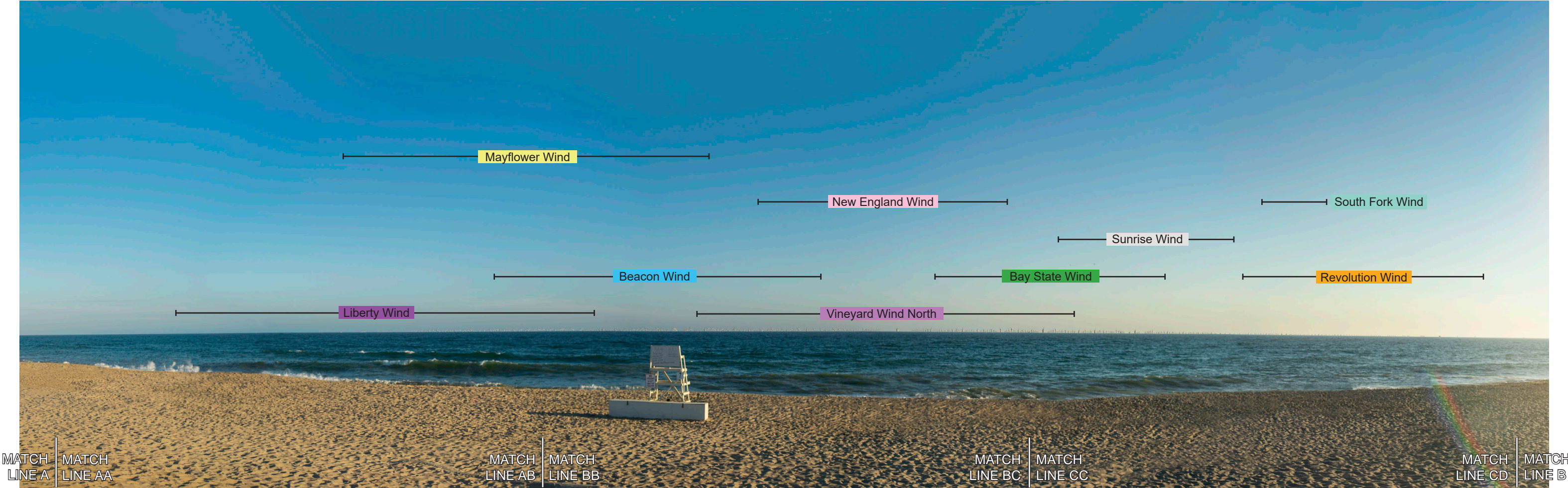
SIMULATED CONDITIONS

2



VISIBILTY OF CLOSEST TURBINES





PROJECT VIEW

Horizontal Field of View: 124°	Furthest Visible WTG: 46 mi / 74 km
Vertical Field of View: 40°	Potential Number of Structures Visible: 743
Nearest WTG: 15 mi / 25 km	Potential Number of Structures Not Visible: 320

ENVIRONMENT

Temperature: 74° F
Humidity: 79%
Wind Dir & Speed: WNW 3 mph
Weather Condition: Clear

PHOTOGRAPH AND SITE

Time of photograph: 6:11PM	Viewing direction: South (228°)
Date of photograph: 7-29-20	Latitude: 41.270282°N
L/SCA: Ocean beach	Longitude: 70.201719°W
	Lighting Direction: Backlit diffused

CAMERA

Camera Elevation: 13.5 ft / 4.1 m
Nikon D4
Nikon 50mm
ISO: 100
Fstop: f/7.1
Shutter: 1/1250 sec
Exposure bias: -0.7 step



The page should viewed at 11" x 17" approximately 15" from viewer's eyes .



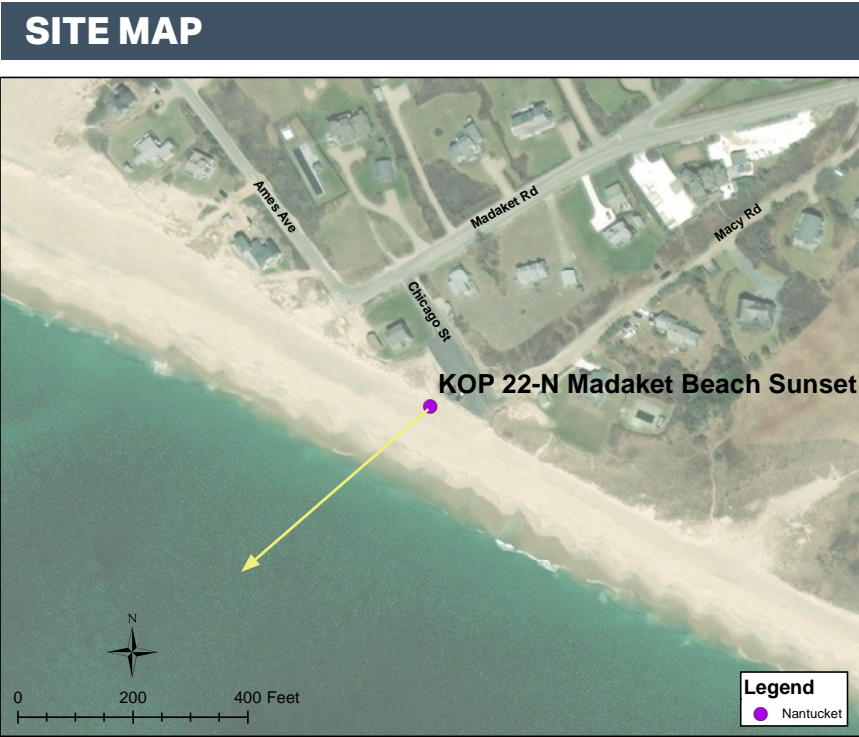
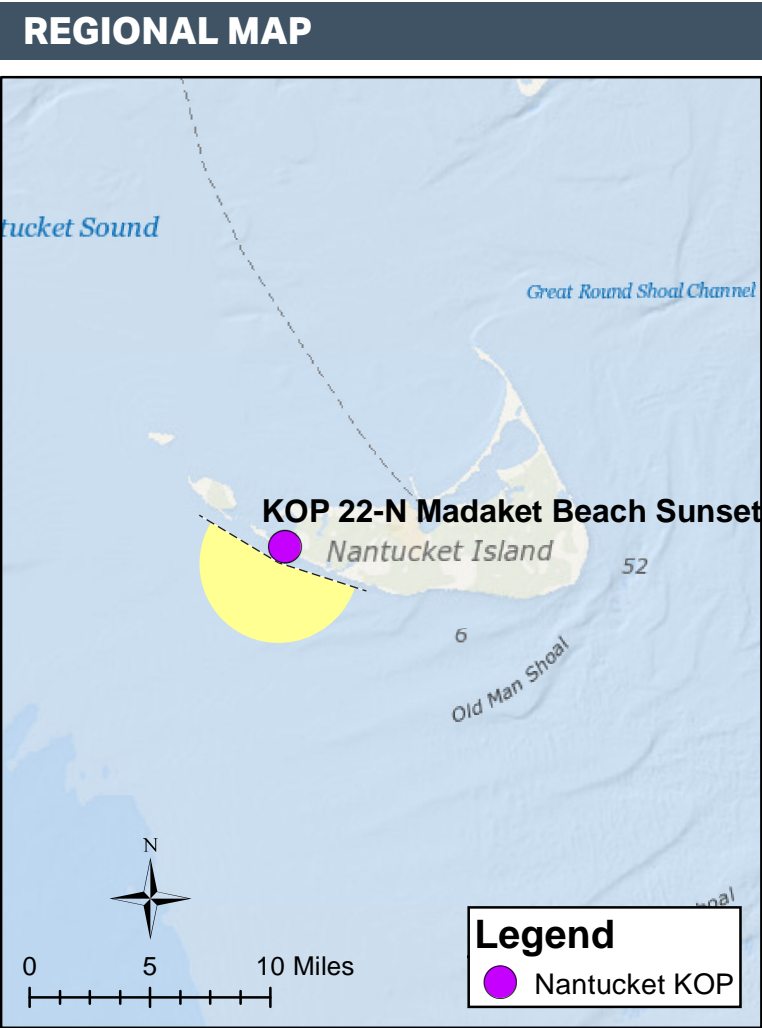
The page should viewed at 11" x 17" approximately 15" from viewer's eyes .



The page should viewed at 11" x 17" approximately 15" from viewer's eyes .

PANORAMIC PHOTOGRAPH - EXISTING CONDITIONS

1



MATCH LINES define visual simulation detail areas

- A-B is shown on pages 2-3
- AA-AB is shown on page 4
- BB-BC is shown on page 5
- CC-CD is shown on page 6

PROJECT VIEW

Horizontal Field of View: 193°	Furthest Visible WTG: 46 mi / 74 km
Vertical Field of View: 40°	Potential Number of Structures Visible: 614
Nearest WTG: 15 mi / 25 km	Potential Number of Structures Not Visible: 300

PHOTOGRAPH AND SITE

Time of photograph: 6:11PM	Viewing direction: South (228°)
Date of photograph: 7-29-20	Latitude: 41.270282°N
L/SCA: Ocean beach	Longitude: 70.201719°W
	Lighting Direction: Backlit diffused

ENVIRONMENT

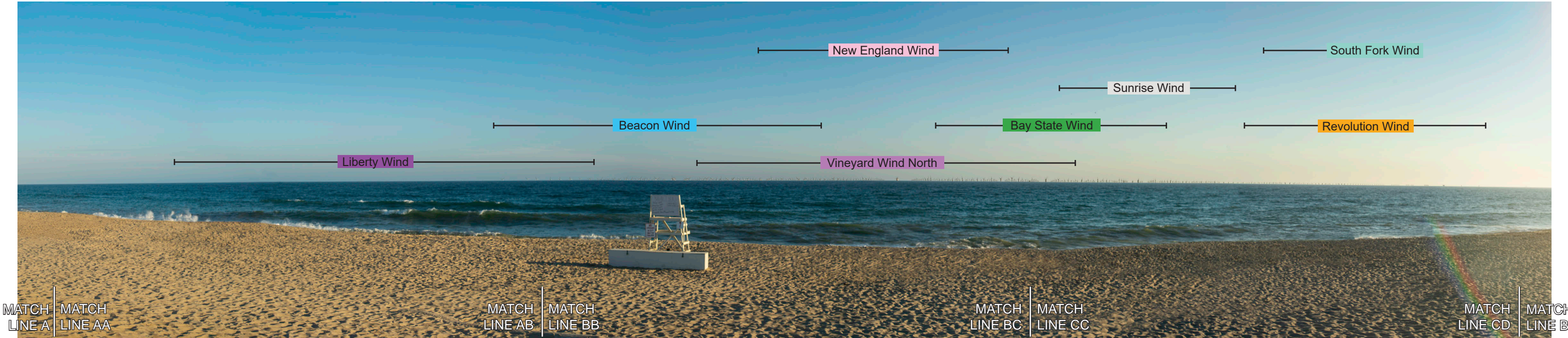
Temperature: 74° F
Humidity: 79%
Wind Dir & Speed: WNW 3 mph
Weather Condition: Clear

CAMERA

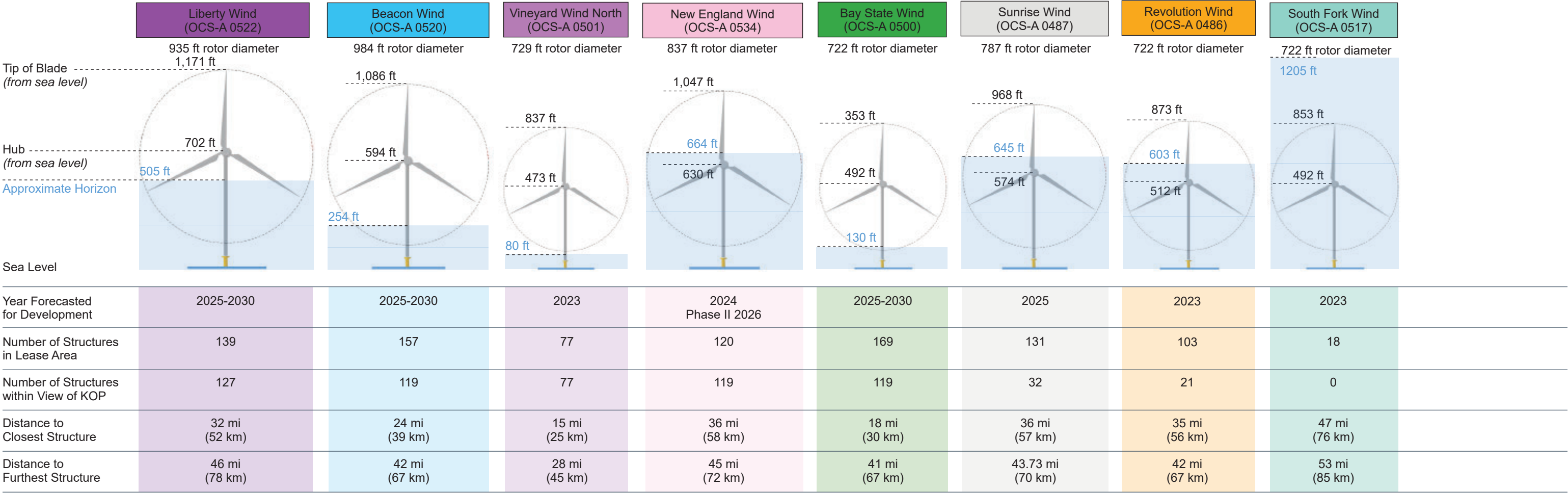
Camera Elevation: 13.5 ft / 4.1 m
Nikon D4
Nikon 50mm
ISO: 100
Fstop: f/7.1
Shutter: 1/1250 sec
Exposure bias: -0.7 step

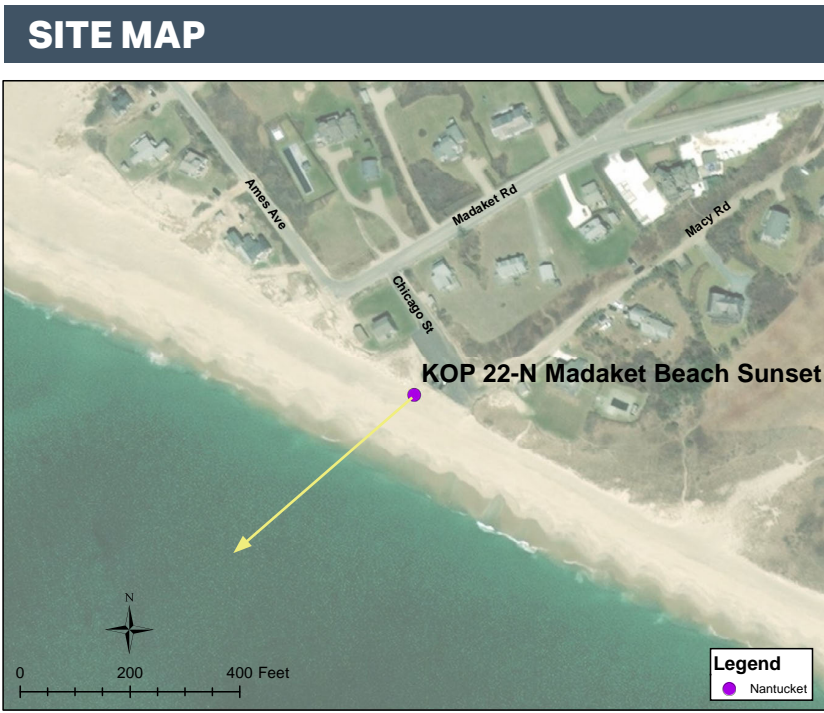
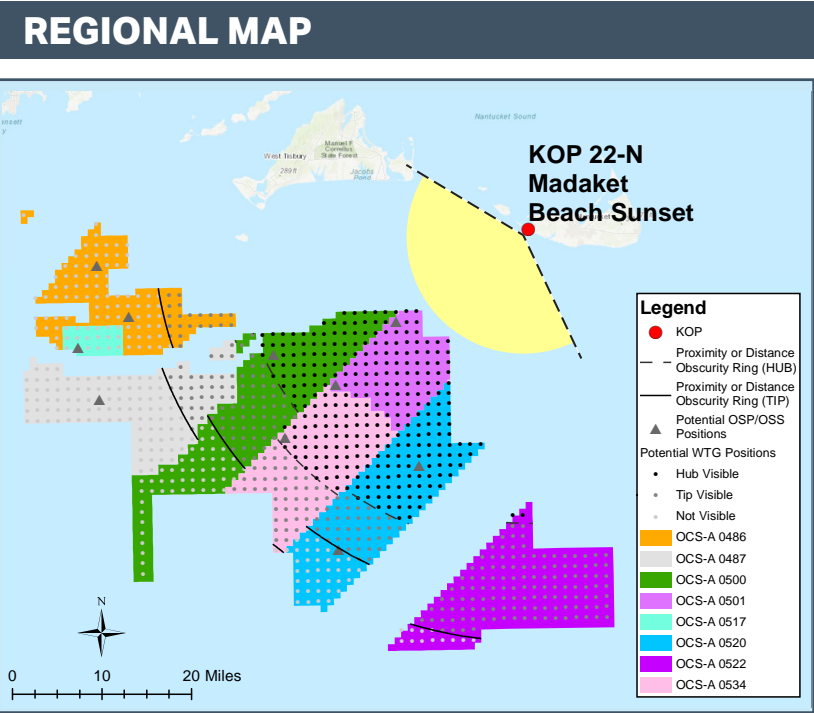
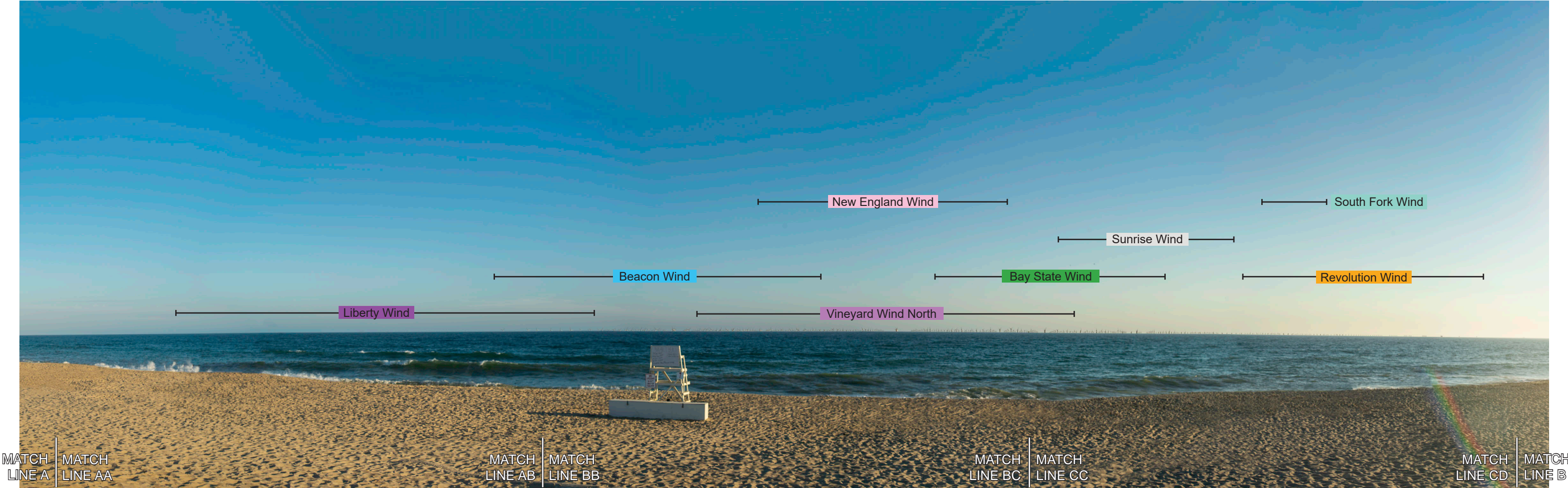
SIMULATED CONDITIONS

2



VISIBILTY OF CLOSEST TURBINES





PROJECT VIEW

Horizontal Field of View: 124°	Furthest Visible WTG: 46 mi / 74 km
Vertical Field of View: 40°	Potential Number of Structures Visible: 614
Nearest WTG: 15 mi / 25 km	Potential Number of Structures Not Visible: 300

ENVIRONMENT

Temperature: 74° F
Humidity: 79%
Wind Dir & Speed: WNW 3 mph
Weather Condition: Clear

PHOTOGRAPH AND SITE

Time of photograph: 6:11PM	Viewing direction: South (228°)
Date of photograph: 7-29-20	Latitude: 41.270282°N
L/SCA: Ocean beach	Longitude: 70.201719°W
	Lighting Direction: Backlit diffused

CAMERA

Camera Elevation: 13.5 ft / 4.1 m
Nikon D4
Nikon 50mm
ISO: 100
Fstop: f/7.1
Shutter: 1/1250 sec
Exposure bias: -0.7 step



The page should viewed at 11" x 17" approximately 15" from viewer's eyes .



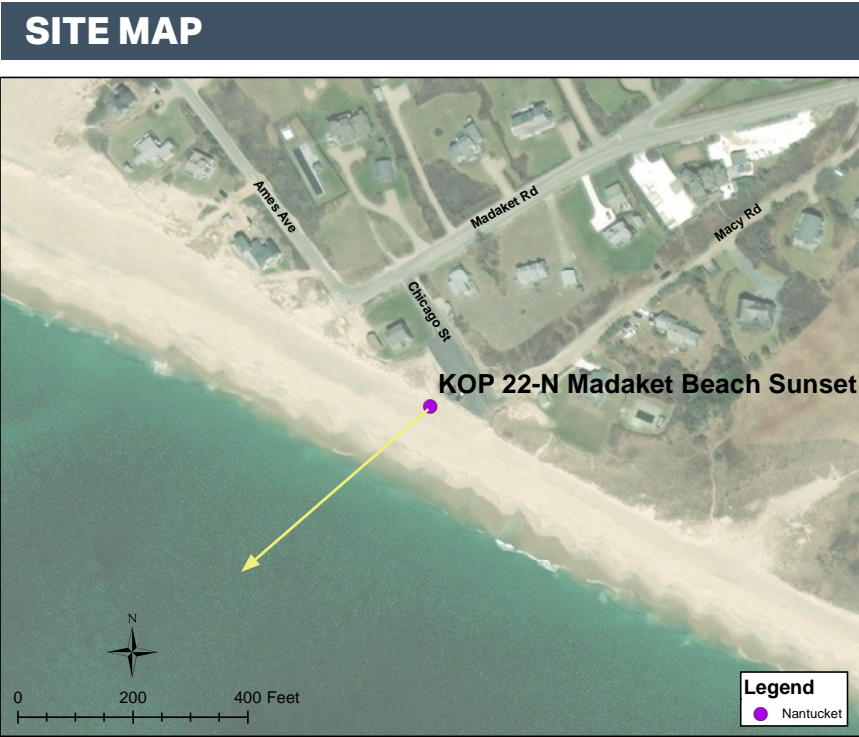
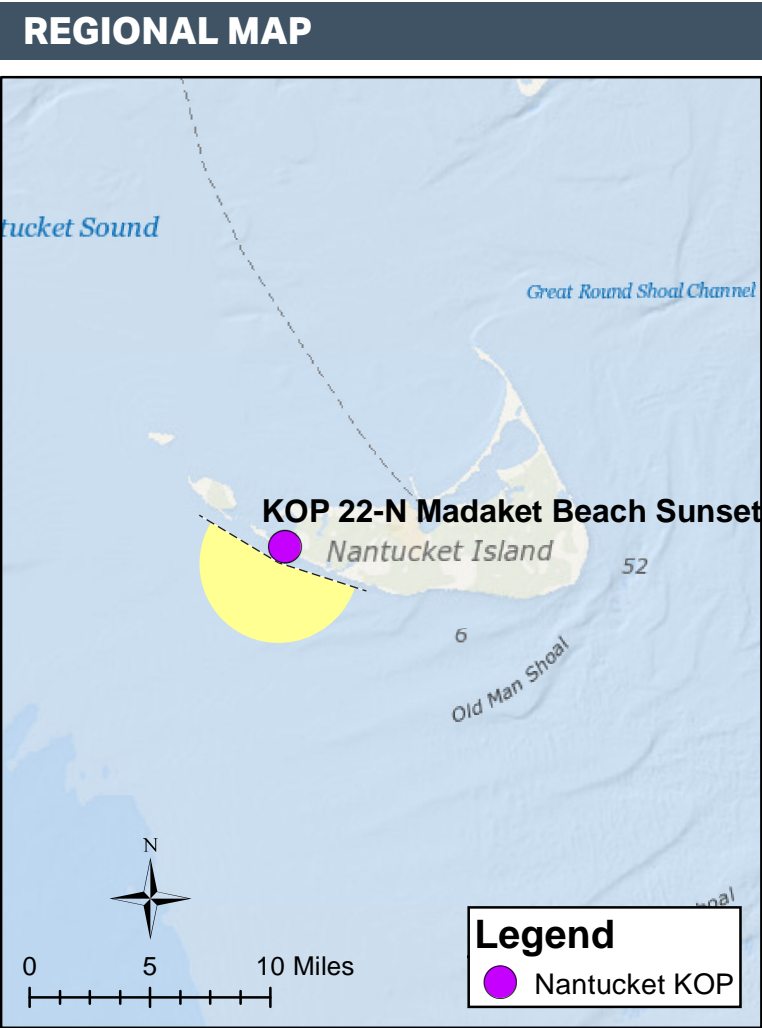
The page should viewed at 11" x 17" approximately 15" from viewer's eyes .



The page should viewed at 11" x 17" approximately 15" from viewer's eyes .

PANORAMIC PHOTOGRAPH - EXISTING CONDITIONS

1



MATCH LINES define visual simulation detail areas

- A-B is shown on pages 2-3
- AA-AB is shown on page 4
- BB-BC is shown on page 5
- CC-CD is shown on page 6

PROJECT VIEW

Horizontal Field of View: 193°	Furthest Visible WTG: 46 mi / 73 km
Vertical Field of View: 40°	Potential Number of Structures Visible: 129
Nearest WTG: 24 mi / 39 km	Potential Number of Structures Not Visible: 20

PHOTOGRAPH AND SITE

Time of photograph: 6:11PM	Viewing direction: South (228°)
Date of photograph: 7-29-20	Latitude: 41.270282°N
L/SCA: Ocean beach	Longitude: 70.201719°W
	Lighting Direction: Backlit diffused

ENVIRONMENT

Temperature: 74° F
Humidity: 79%
Wind Dir & Speed: WNW 3 mph
Weather Condition: Clear

CAMERA

Camera Elevation: 13.5 ft / 4.1 m
Nikon D4
Nikon 50mm
ISO: 100
Fstop: f/7.1
Shutter: 1/1250 sec
Exposure bias: -0.7 step

SIMULATED CONDITIONS

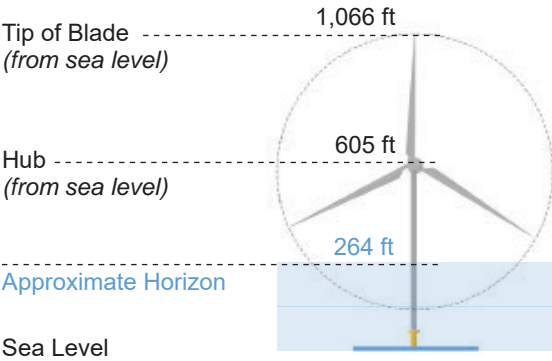
2



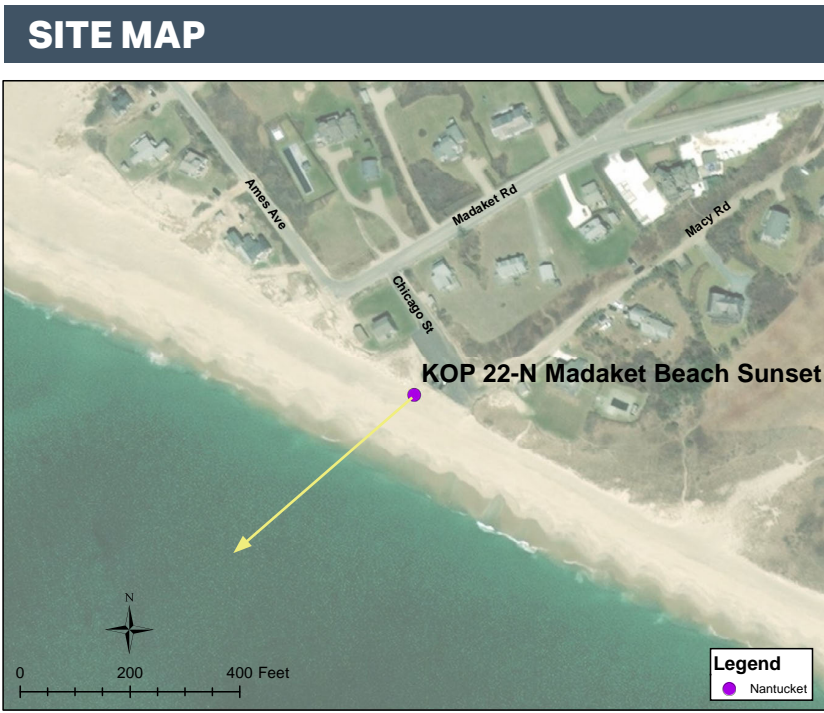
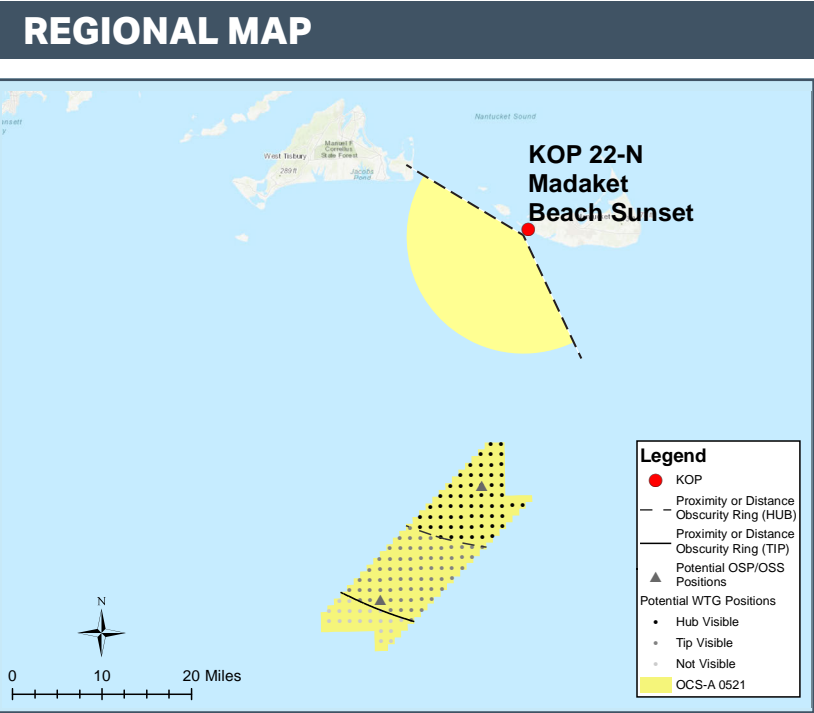
VISIBILTY OF CLOSEST TURBINES

Mayflower Wind
(OCS-A 0521)

919 ft rotor diameter



Year Forecasted for Development	2025	
Number of Structures in Lease Area	149	
Number of Structures within View of KOP	129	
Distance to Closest Structure	24 mi (39 km)	
Distance to Furthest Structure	46 mi (73 km)	



PROJECT VIEW

Horizontal Field of View: 127°	Furthest Visible WTG: 46 mi / 73 km
Vertical Field of View: 40°	Potential Number of Structures Visible: 129
Nearest WTG: 24 mi / 39 km	Potential Number of Structures Not Visible: 20

ENVIRONMENT

Temperature: 74° F
Humidity: 79%
Wind Dir & Speed: WNW 3 mph
Weather Condition: Clear

PHOTOGRAPH AND SITE

Time of photograph: 6:11PM	Viewing direction: South (228°)
Date of photograph: 7-29-20	Latitude: 41.270282°N
L/SCA: Ocean beach	Longitude: 70.201719°W
	Lighting Direction: Backlit diffused

CAMERA

Camera Elevation: 13.5 ft / 4.1 m
Nikon D4
Nikon 50mm
ISO: 100
Fstop: f/7.1
Shutter: 1/1250 sec
Exposure bias: -0.7 step



The page should viewed at 11" x 17" approximately 15" from viewer's eyes .



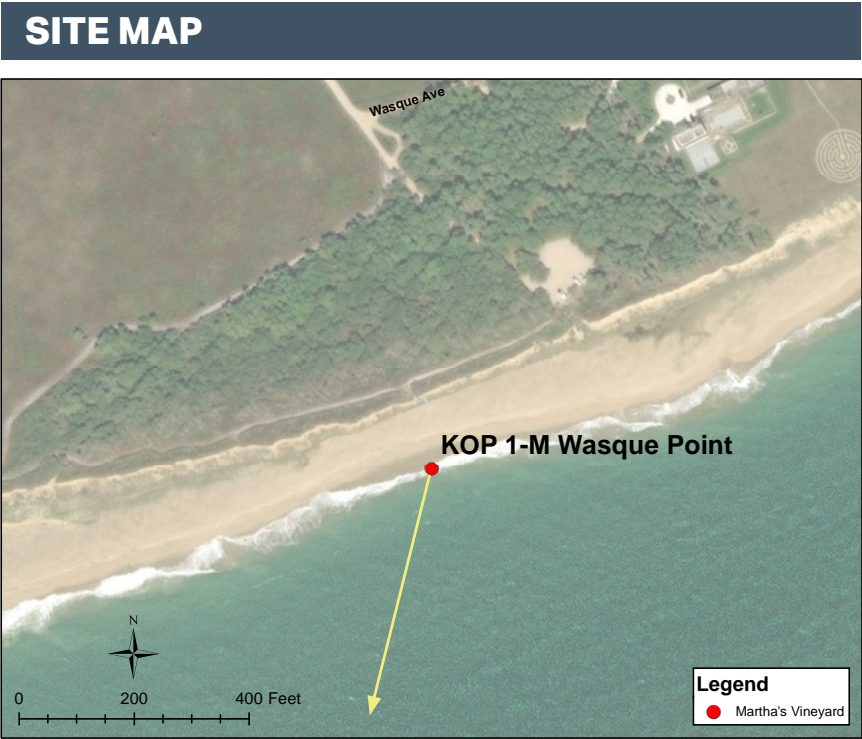
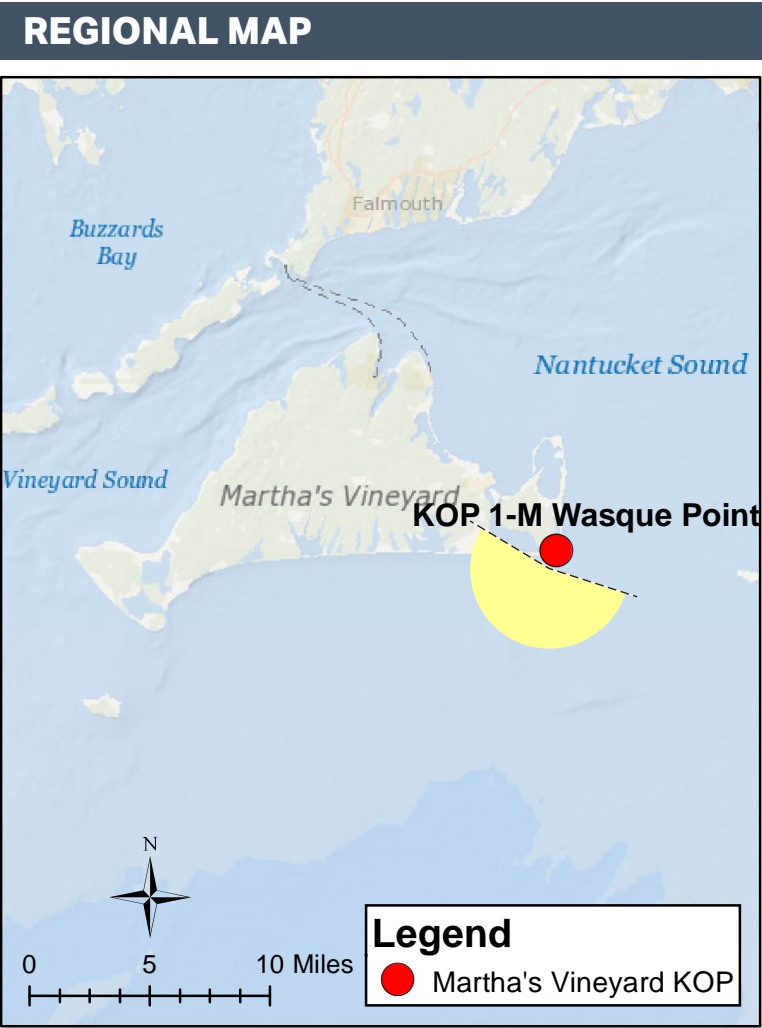
The page should viewed at 11" x 17" approximately 15" from viewer's eyes .



The page should viewed at 11" x 17" approximately 15" from viewer's eyes .

PANORAMIC PHOTOGRAPH - EXISTING CONDITIONS

1



MATCH LINES define visual simulation detail areas

A-B is shown on pages 2-3
AA-AB is shown on page 4
BB-BC is shown on page 5
CC-CD is shown on page 6

PROJECT VIEW

Horizontal Field of View: 193°	Furthest Visible WTG: 43 mi / 69 km
Vertical Field of View: 40°	Potential Number of Structures Visible: 352
Nearest WTG: 15 mi / 24 km	Potential Number of Structures Not Visible: 95

PHOTOGRAPH AND SITE

Time of photograph: 9:01AM	Viewing direction: South (194°)
Date of photograph: 6-25-20	Latitude: 41.351077°N
L/SCA: Ocean Beach, Costal Scrub, Rural/Residential	Longitude: 70.454821°W
	Lighting Direction: Backlit diffused

ENVIRONMENT

Temperature: 77° F
Humidity: 58%
Wind Dir & Speed: SSW 14mph
Weather Condition: Cloudy

CAMERA

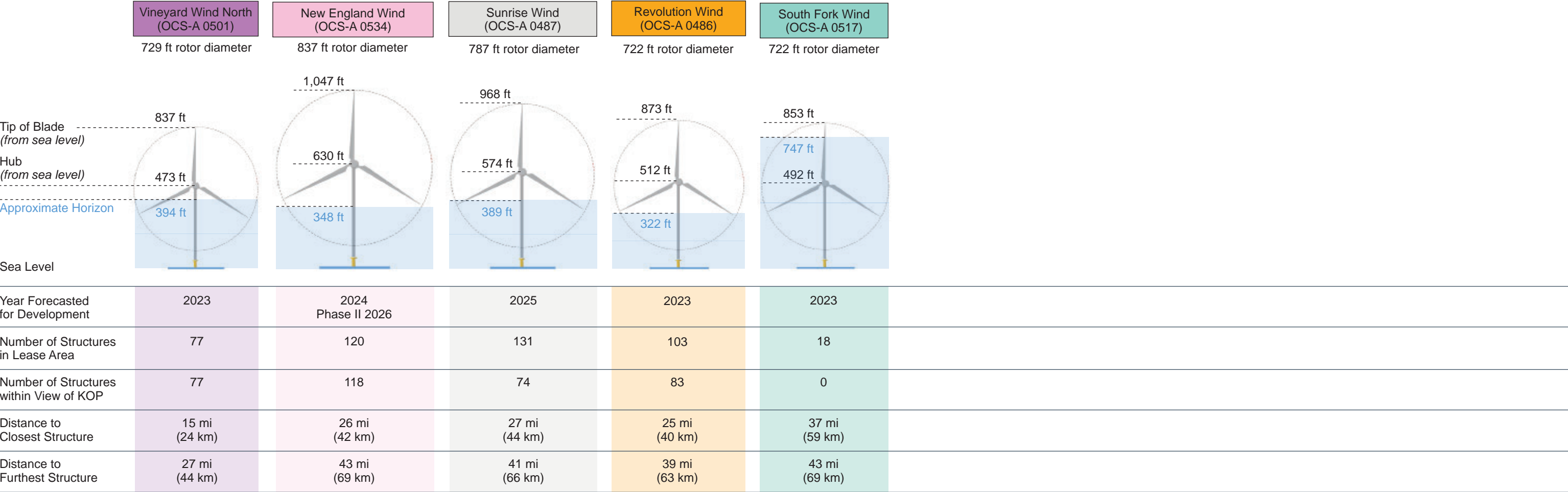
Camera Elevation: 6.5 ft / 6.3 m
Nikon D4
Nikon 50mm
ISO: 100
Fstop: f/7.1
Shutter: 1/1250 sec
Exposure bias: -0.7 step

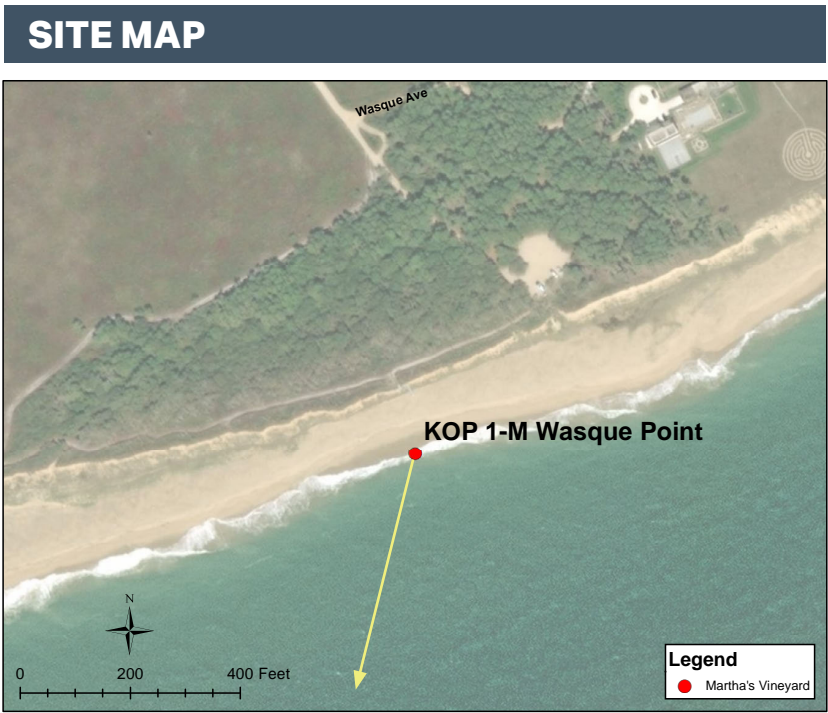
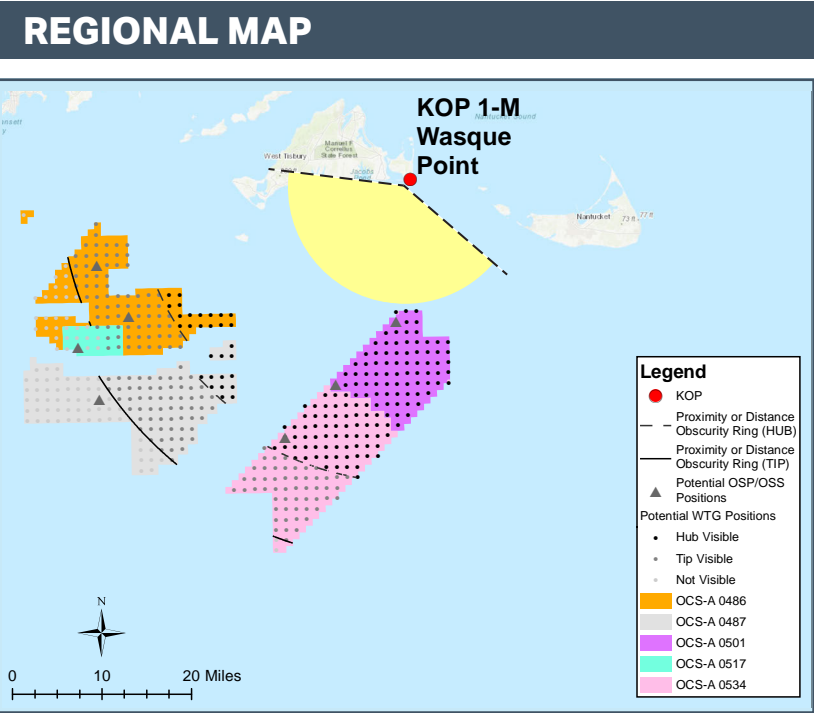
SIMULATED CONDITIONS

2



VISIBILTY OF CLOSEST TURBINES





PROJECT VIEW

Horizontal Field of View: 124°	Furthest Visible WTG: 43 mi / 69 km
Vertical Field of View: 40°	Potential Number of Structures Visible: 352
Nearest WTG: 15 mi / 24 km	Potential Number of Structures Not Visible: 95

ENVIRONMENT

Temperature: 77° F
Humidity: 58%
Wind Dir & Speed: SSW 14mph
Weather Condition: Cloudy

PHOTOGRAPH AND SITE

Time of photograph: 9:01AM	Viewing direction: South (194°)
Date of photograph: 6-25-20	Latitude: 41.351077°N
L/SCA: Ocean Beach, Costal Scrub, Rural/Residential	Longitude: 70.454821°W
	Lighting Direction: Backlit diffused

CAMERA

Camera Elevation: 6.5 ft / 6.3 m
Nikon D4
Nikon 50mm
ISO: 100
Fstop: f/7.1
Shutter: 1/1250 sec
Exposure bias: -0.7 step

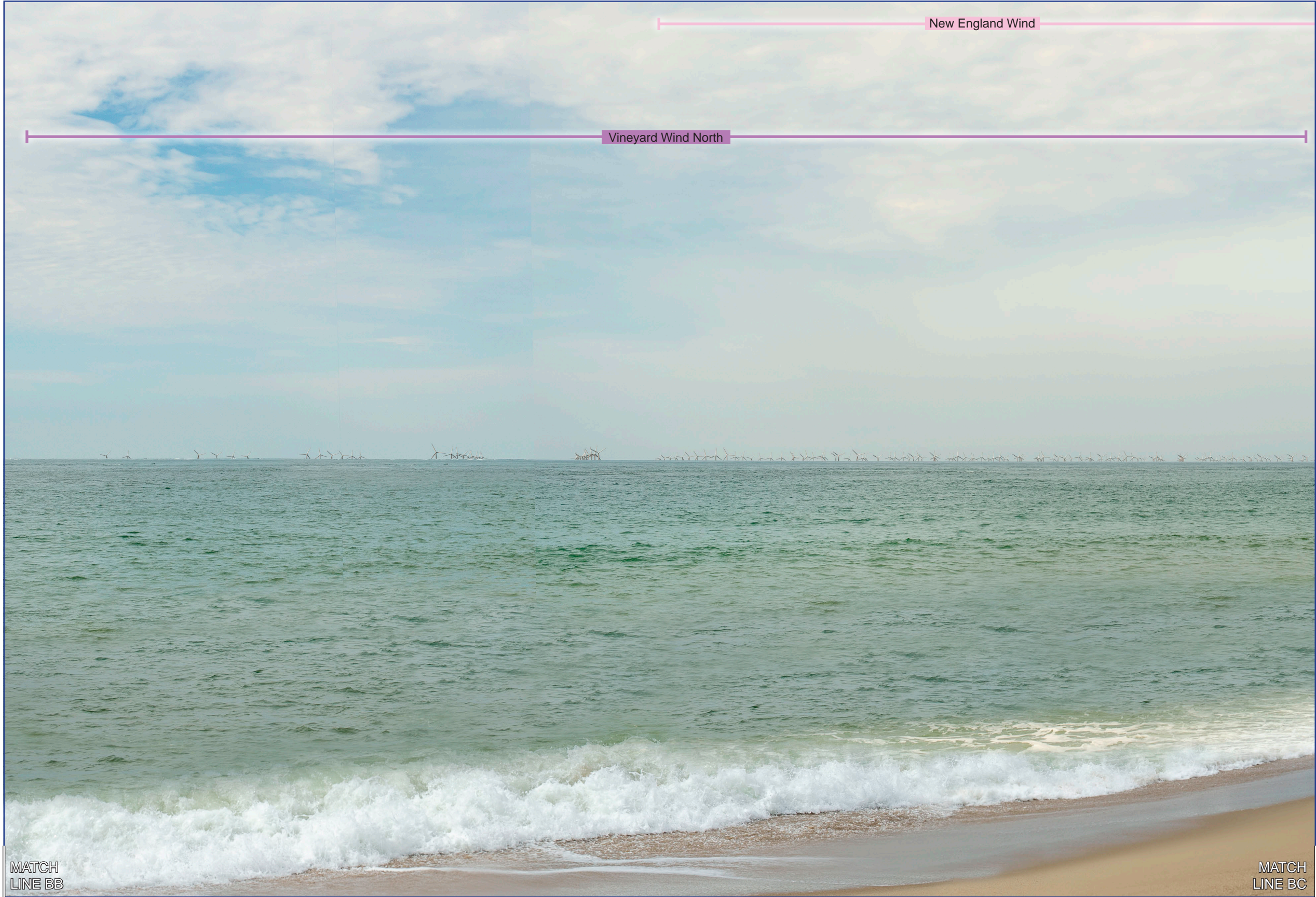


MATCH
LINE A

MATCH
LINE AA

MATCH
LINE AB

MATCH
LINE BB



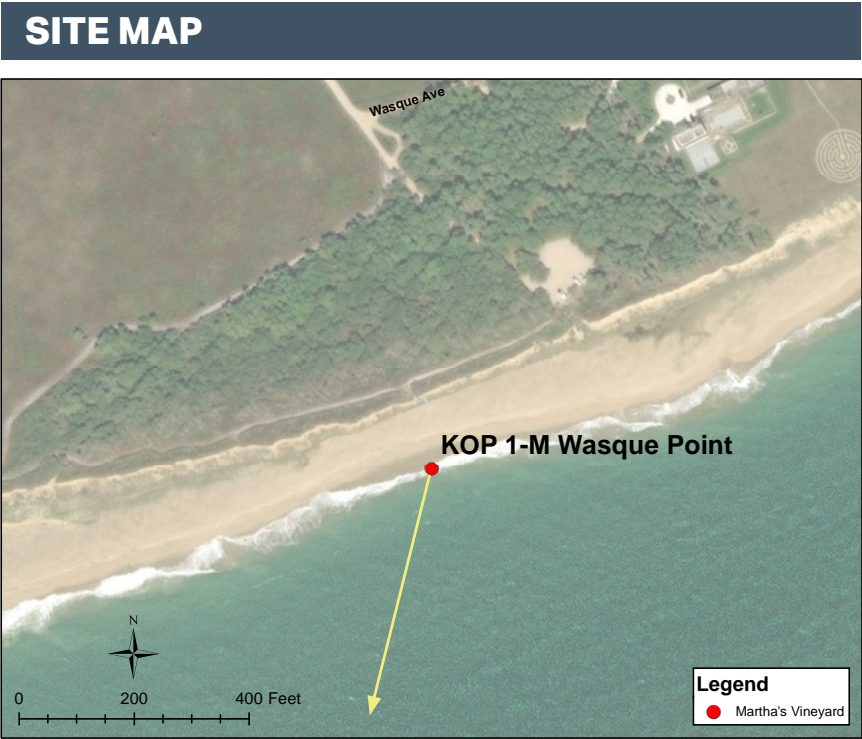
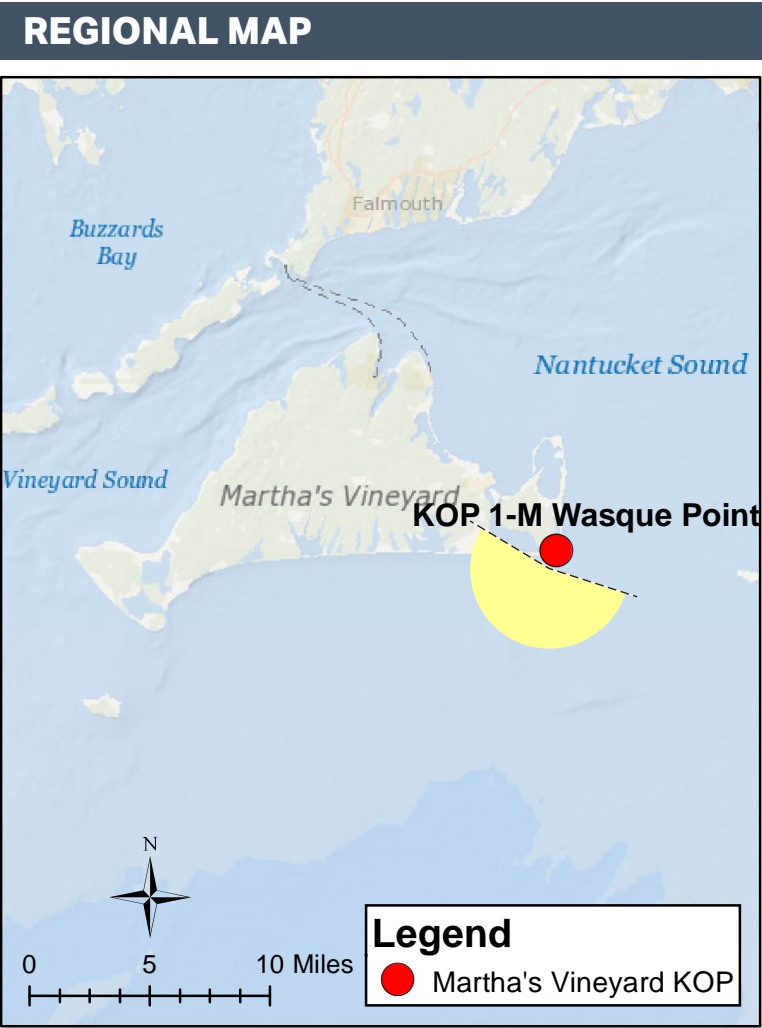
The page should viewed at 11" x 17" approximately 15" from viewer's eyes .



The page should viewed at 11" x 17" approximately 15" from viewer's eyes .

PANORAMIC PHOTOGRAPH - EXISTING CONDITIONS

1



MATCH LINES define visual simulation detail areas

- A-B is shown on pages 2-3
- AA-AB is shown on page 4
- BB-BC is shown on page 5
- CC-CD is shown on page 6

PROJECT VIEW

Horizontal Field of View: 193°	Furthest Visible WTG: 43 mi / 69 km
Vertical Field of View: 40°	Potential Number of Structures Visible: 438
Nearest WTG: 15 mi / 4 km	Potential Number of Structures Not Visible: 160

PHOTOGRAPH AND SITE

Time of photograph: 9:01AM	Viewing direction: South (194°)
Date of photograph: 6-25-20	Latitude: 41.351077°N
L/SCA: Ocean Beach, Costal Scrub, Rural/Residential	Longitude: 70.454821°W
	Lighting Direction: Backlit diffused

ENVIRONMENT

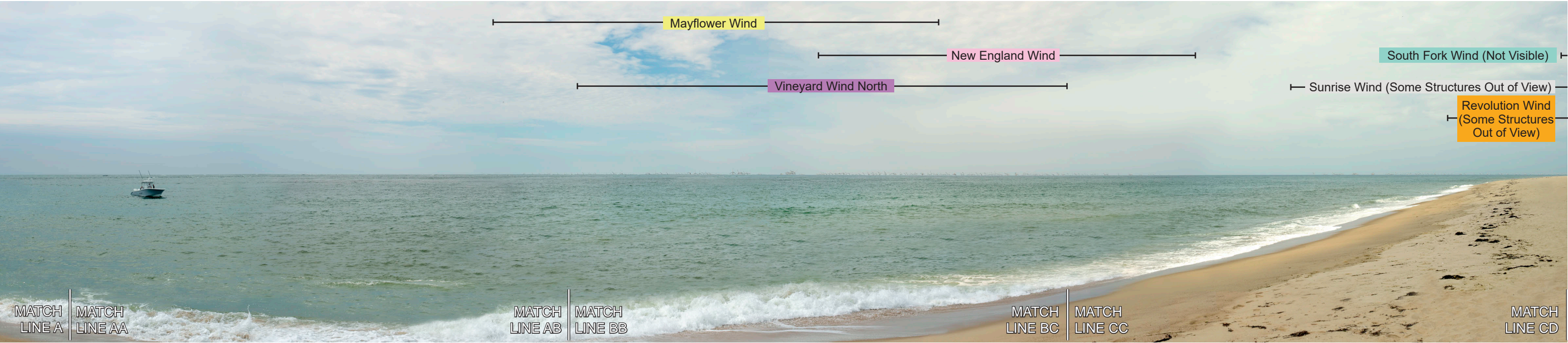
Temperature: 77° F
Humidity: 58%
Wind Dir & Speed: SSW 14mph
Weather Condition: Cloudy

CAMERA

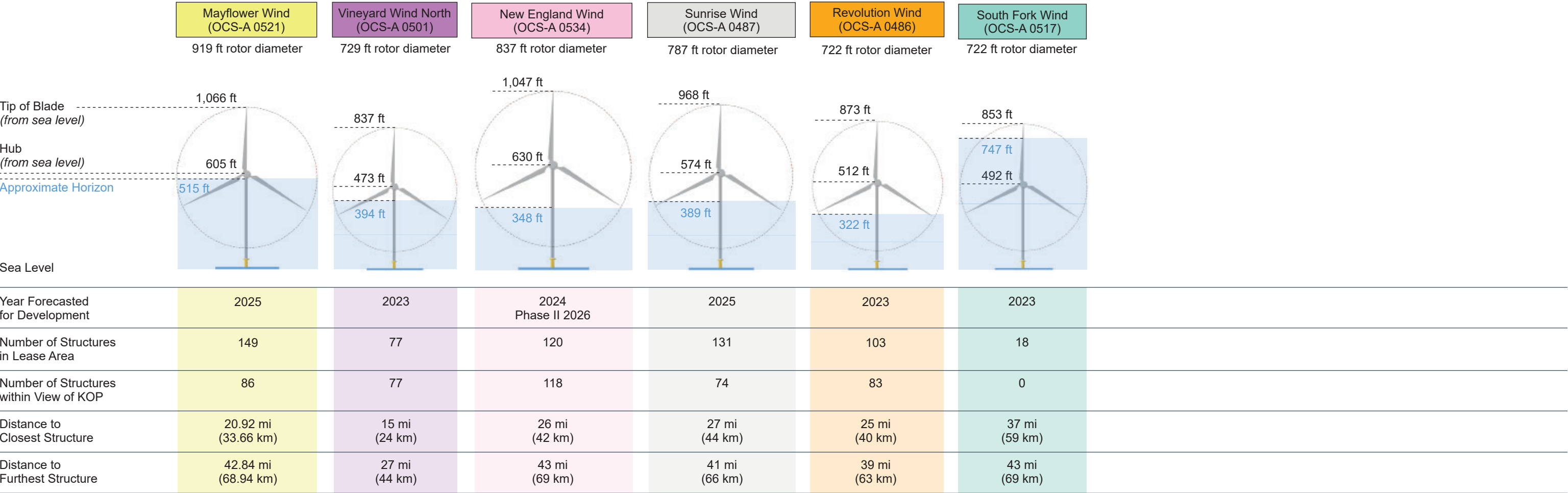
Camera Elevation: 6.5 ft / 6.3 m
Nikon D4
Nikon 50mm
ISO: 100
Fstop: f/7.1
Shutter: 1/1250 sec
Exposure bias: -0.7 step

SIMULATED CONDITIONS

2

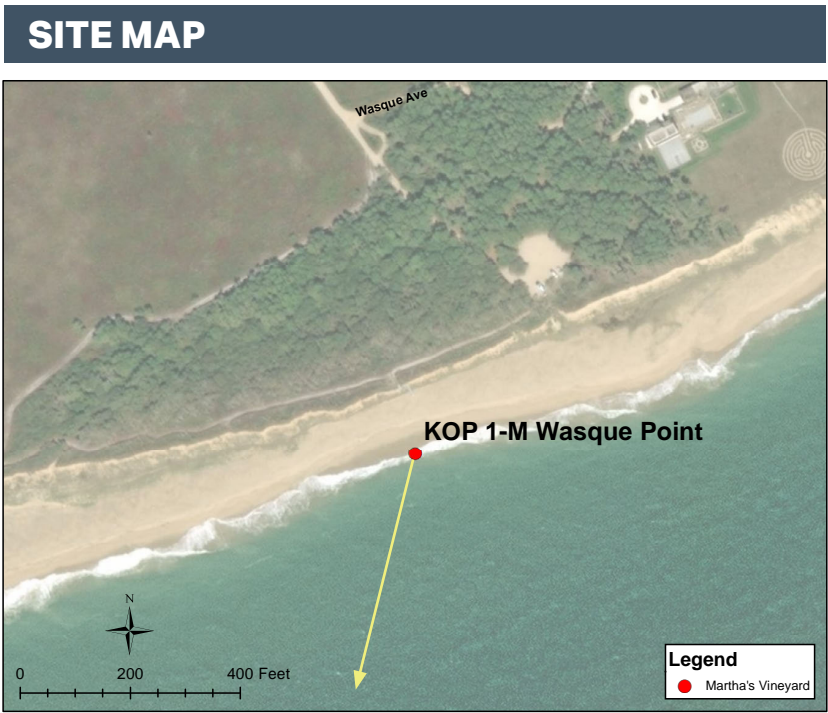
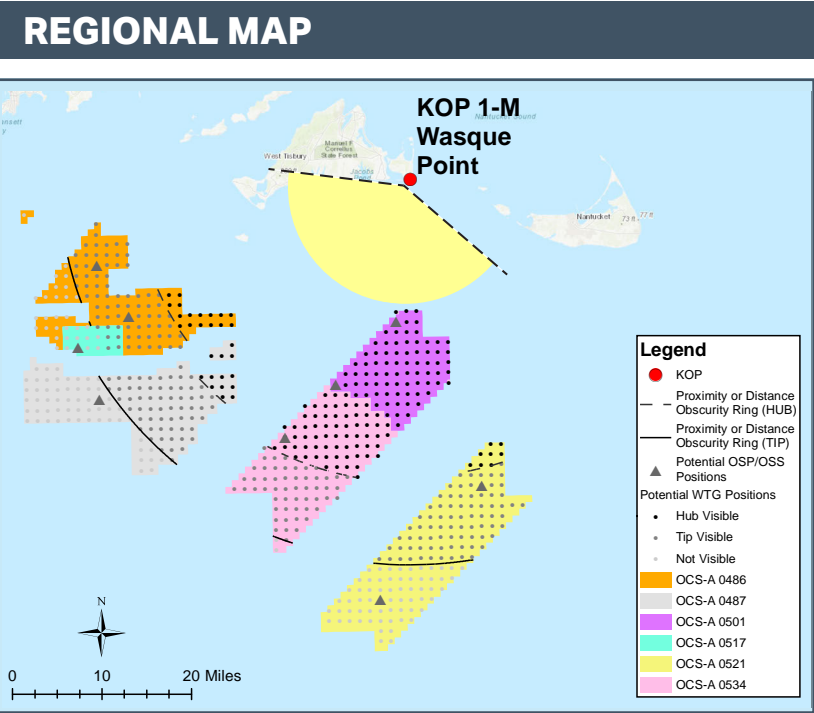


VISIBILTY OF CLOSEST TURBINES



SIMULATED CONDITIONS

3



PROJECT VIEW

Horizontal Field of View: 124°	Furthest Visible WTG: 43 mi / 69 km
Vertical Field of View: 40°	Potential Number of Structures Visible: 438
Nearest WTG: 15 mi / 4 km	Potential Number of Structures Not Visible: 160

ENVIRONMENT

Temperature: 77° F
Humidity: 58%
Wind Dir & Speed: SSW 14mph
Weather Condition: Cloudy

PHOTOGRAPH AND SITE

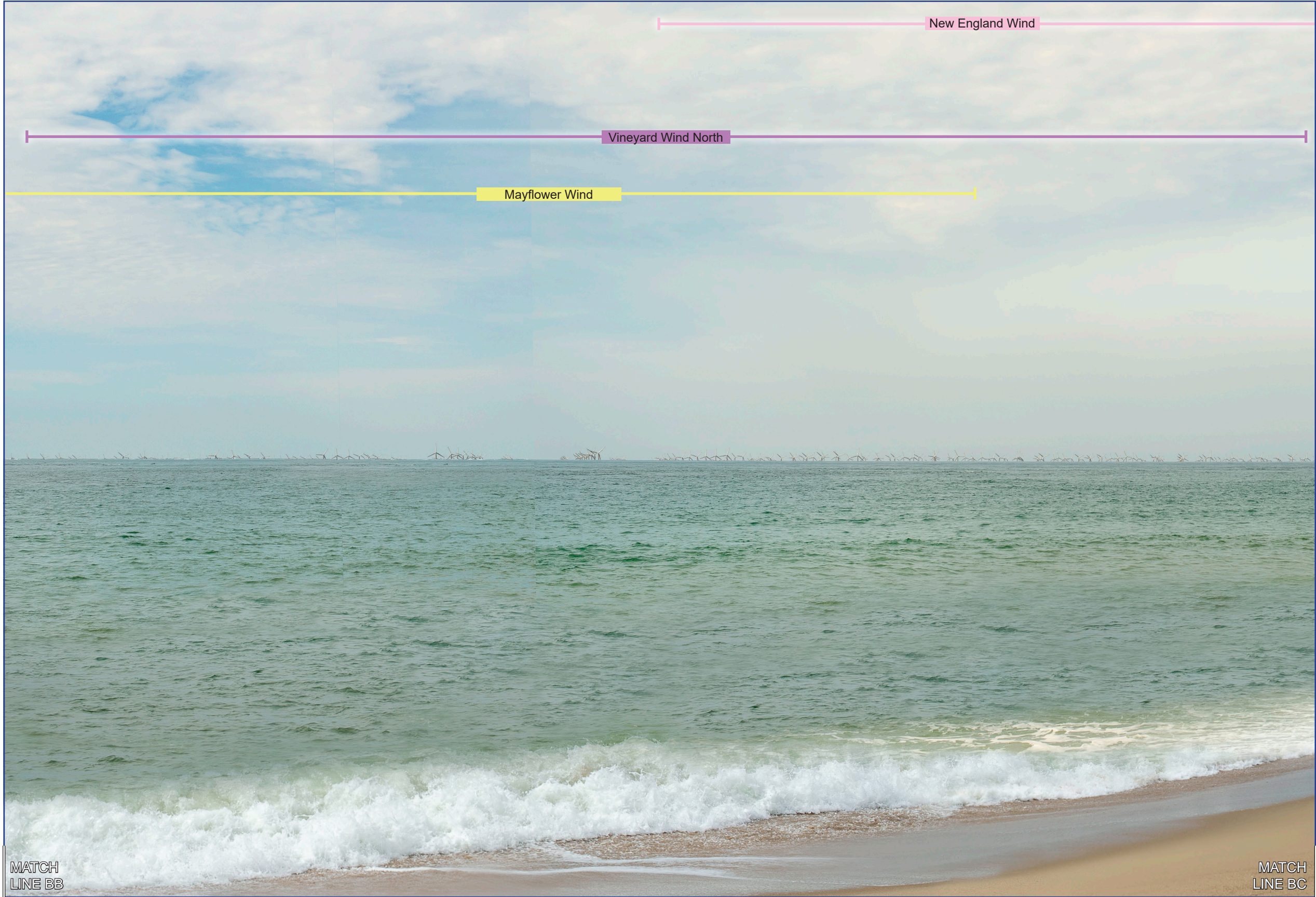
Time of photograph: 9:01AM	Viewing direction: South (194°)
Date of photograph: 6-25-20	Latitude: 41.351077°N
L/SCA: Ocean Beach, Costal Scrub, Rural/Residential	Longitude: 70.454821°W
	Lighting Direction: Backlit diffused

CAMERA

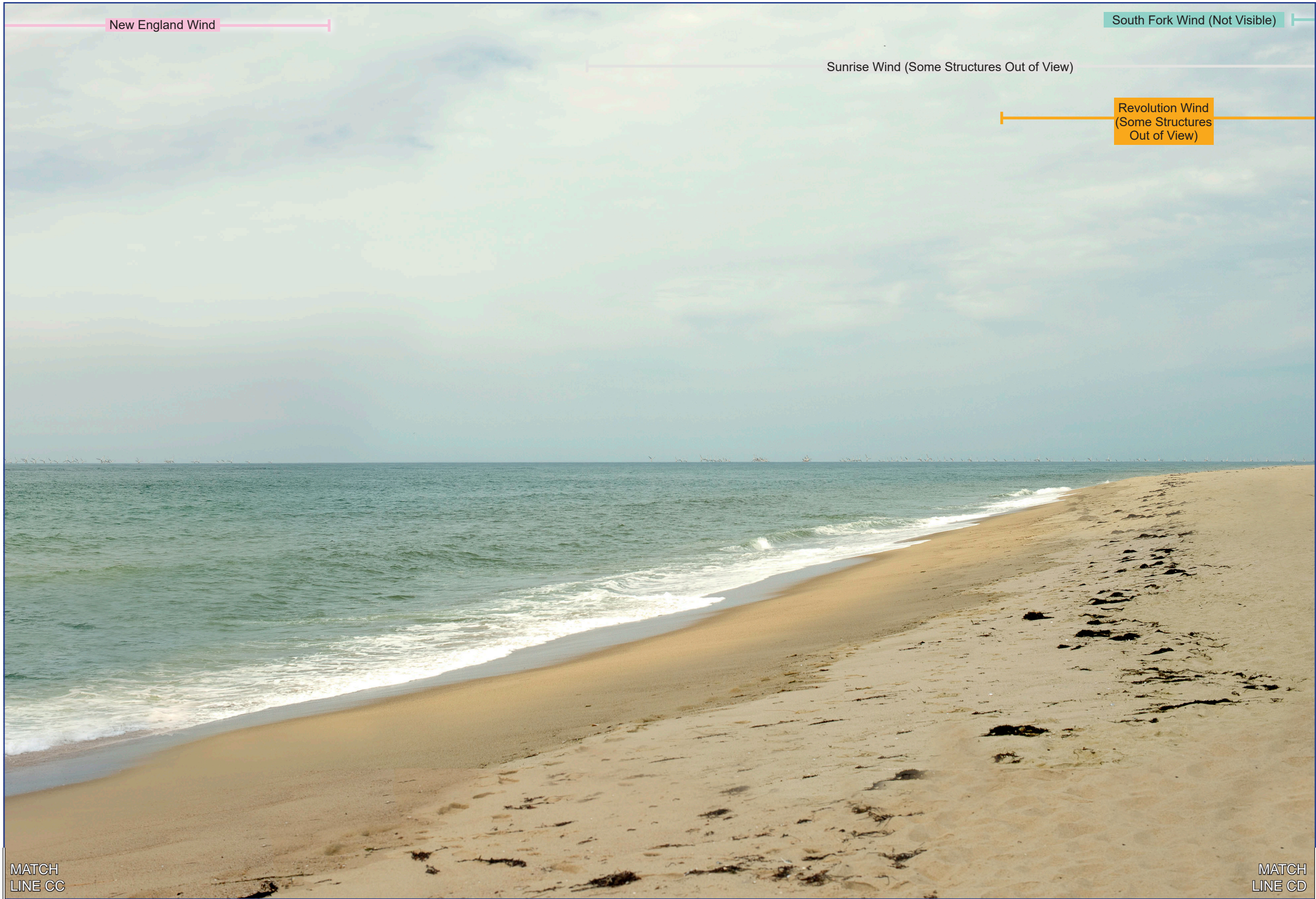
Camera Elevation: 6.5 ft / 6.3 m
Nikon D4
Nikon 50mm
ISO: 100
Fstop: f/7.1
Shutter: 1/1250 sec
Exposure bias: -0.7 step



The page should viewed at 11" x 17" approximately 15" from viewer's eyes .



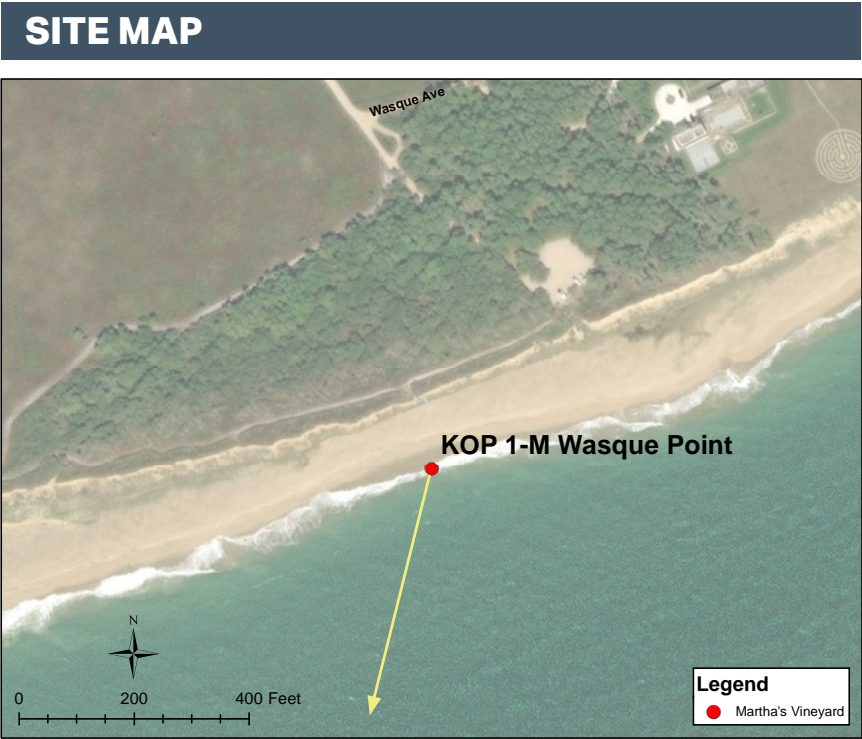
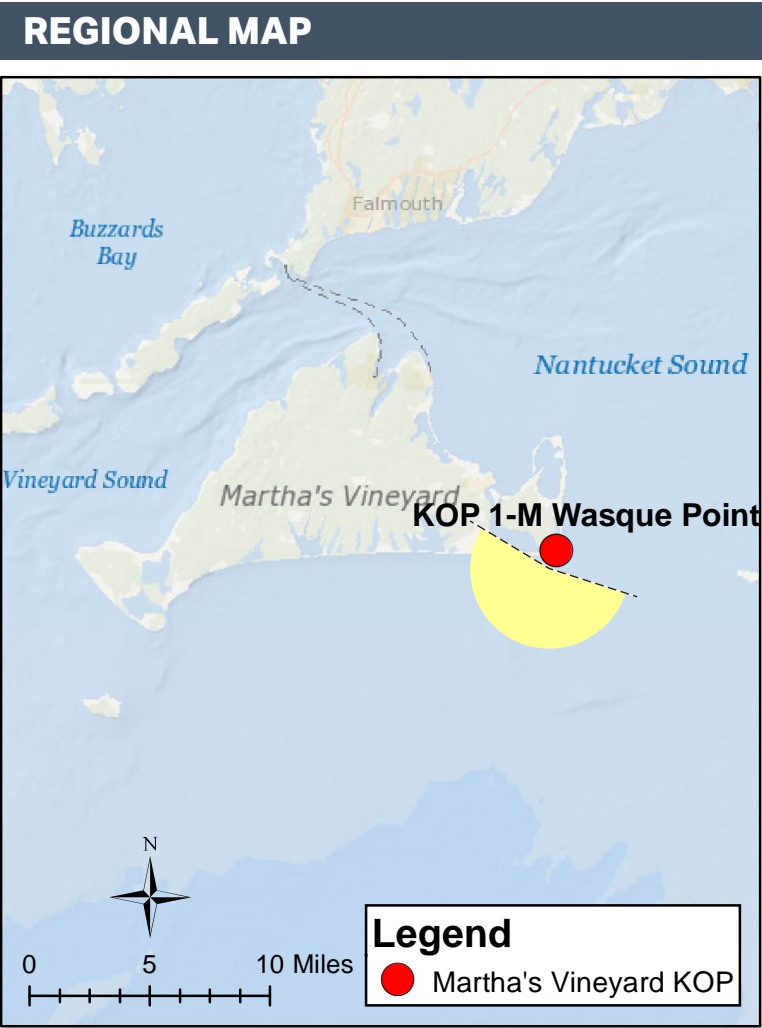
The page should viewed at 11" x 17" approximately 15" from viewer's eyes .



The page should viewed at 11" x 17" approximately 15" from viewer's eyes .

PANORAMIC PHOTOGRAPH - EXISTING CONDITIONS

1



MATCH LINES define visual simulation detail areas

- A-B is shown on pages 2-3
- AA-AB is shown on page 4
- BB-BC is shown on page 5
- CC-CD is shown on page 6

PROJECT VIEW

Horizontal Field of View: 193°	Furthest Visible WTG: 43 mi / 70 km
Vertical Field of View: 40°	Potential Number of Structures Visible: 686
Nearest WTG: 15 mi / 24 km	Potential Number of Structures Not Visible: 384

PHOTOGRAPH AND SITE

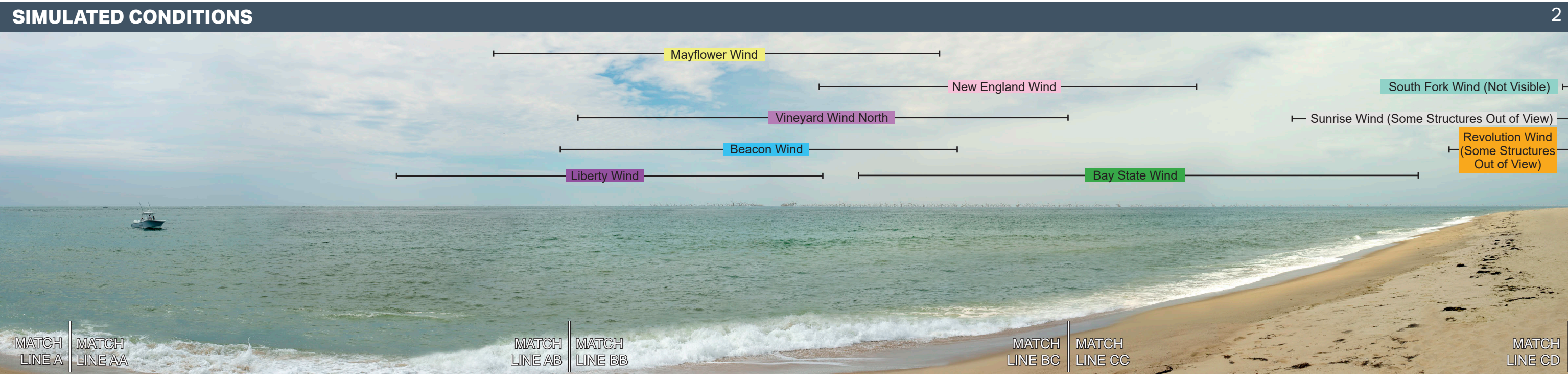
Time of photograph: 9:01AM	Viewing direction: South (194°)
Date of photograph: 6-25-20	Latitude: 41.351077°N
L/SCA: Ocean Beach, Costal Scrub, Rural/Residential	Longitude: 70.454821°W
	Lighting Direction: Backlit diffused

ENVIRONMENT

Temperature: 77° F
Humidity: 58%
Wind Dir & Speed: SSW 14mph
Weather Condition: Cloudy

CAMERA

Camera Elevation: 6.5 ft / 6.3 m
Nikon D4
Nikon 50mm
ISO: 100
Fstop: f/7.1
Shutter: 1/1250 sec
Exposure bias: -0.7 step

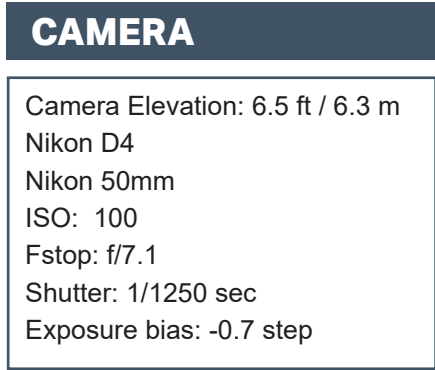
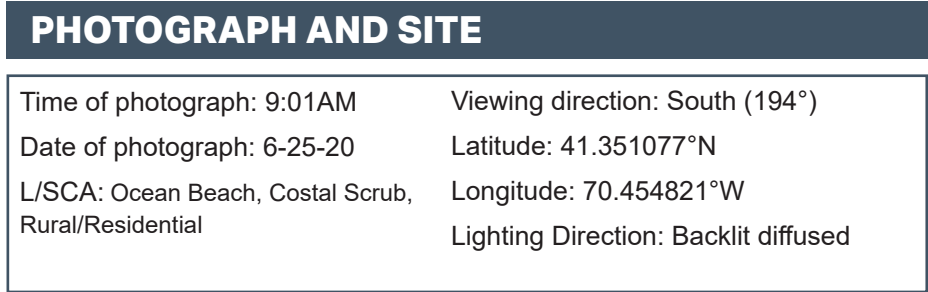
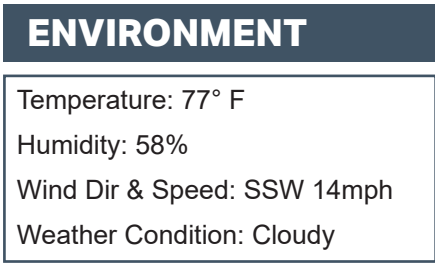
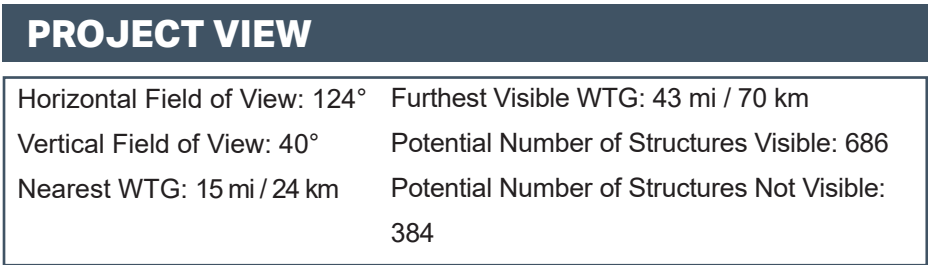
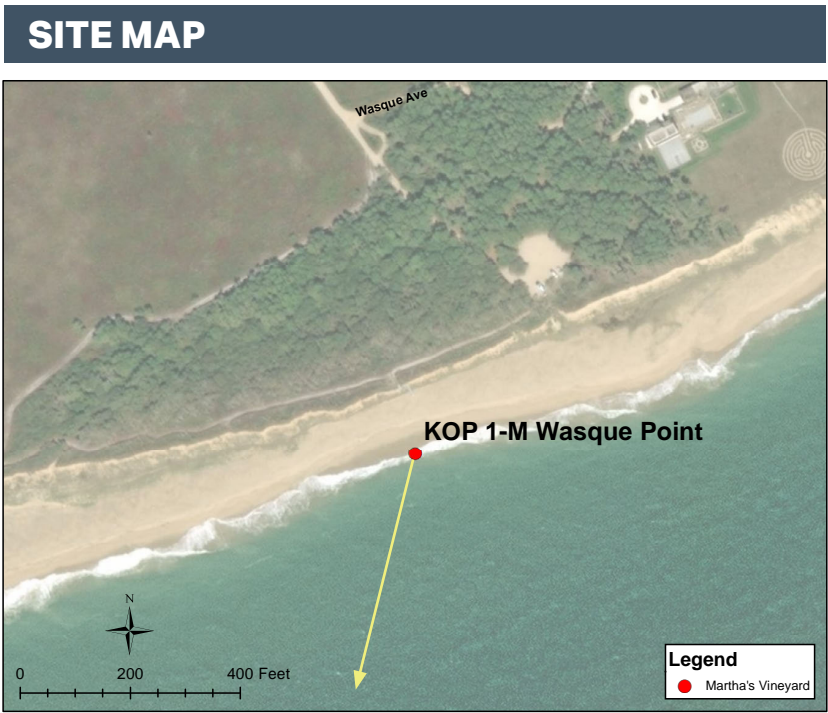
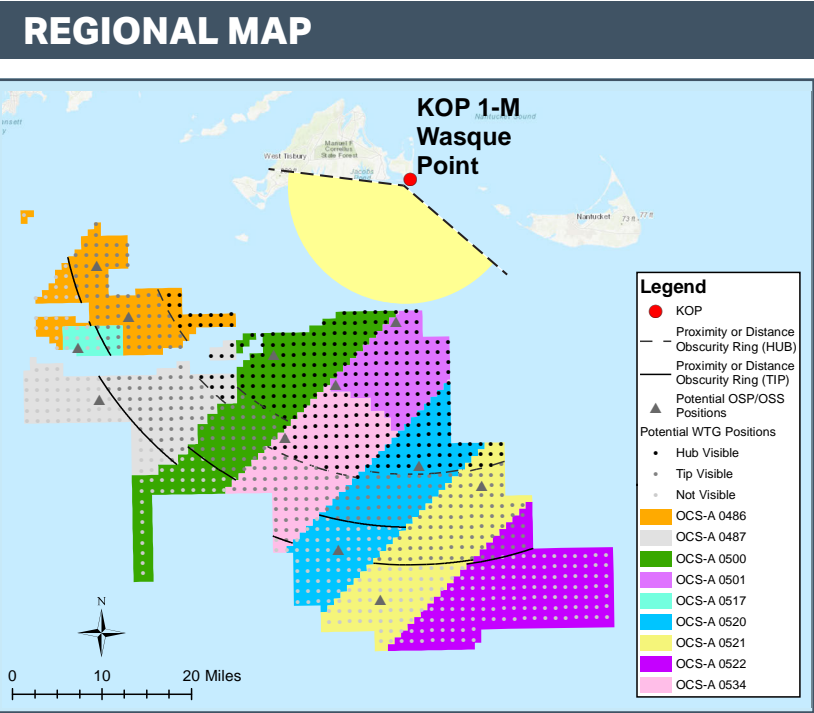
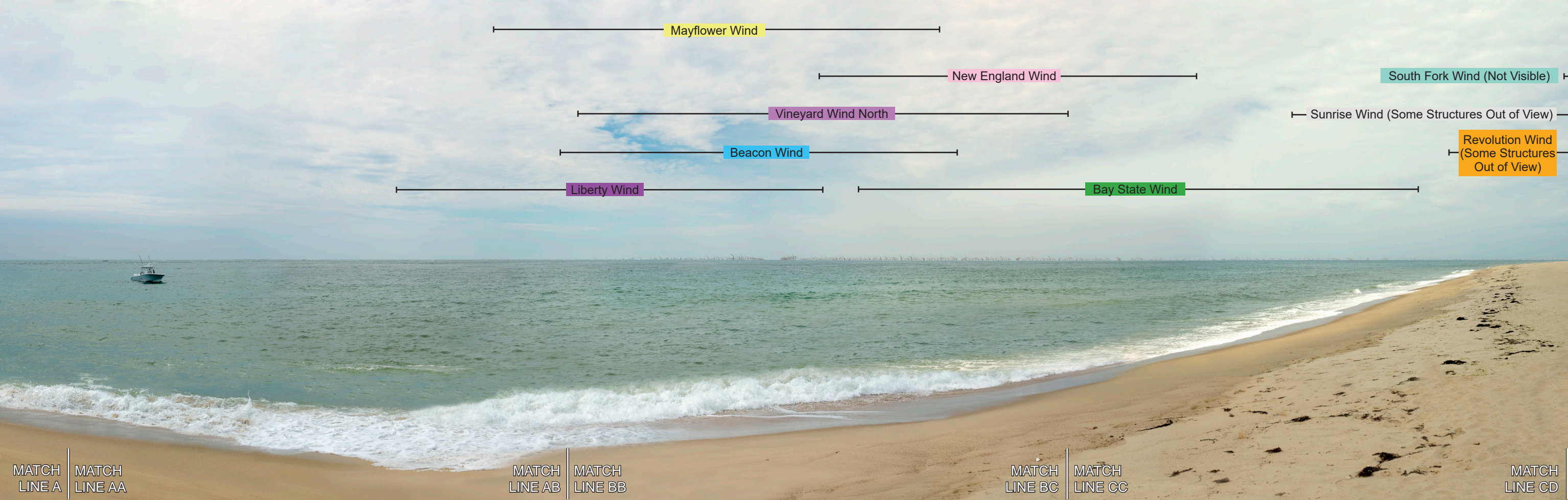


VISIBILTY OF CLOSEST TURBINES

	Liberty Wind (OCS-A 0522)	Beacon Wind (OCS-A 0520)	Mayflower Wind (OCS-A 0521)	Vineyard Wind North (OCS-A 0501)	New England Wind (OCS-A 0534)	Bay State Wind (OCS-A 0500)	Sunrise Wind (OCS-A 0487)	Revolution Wind (OCS-A 0486)	South Fork Wind (OCS-A 0517)
	935 ft rotor	984 ft rotor	919 ft rotor	729 ft rotor	837 ft rotor	722 ft rotor	787 ft rotor	722 ft rotor	722 ft rotor
Tip of Blade (from sea level)	1,171 ft	1,086 ft	1,066 ft	837 ft	1,047 ft	353 ft	968 ft	873 ft	853 ft
Approximate Horizon	888 ft								
Hub (from sea level)	702 ft	594 ft	605 ft	473 ft	630 ft	492 ft	574 ft	512 ft	747 ft
Sea Level		294 ft	515 ft	394 ft	348 ft	93 ft	389 ft	322 ft	492 ft
Year Forecasted for Development	2025-2030	2025-2030	2025	2023	2024 Phase II 2026	2025-2030	2025	2023	2023
Number of Structures in Lease Area	139	157	149	77	120	169	131	103	18
Number of Structures within View of KOP	13	95	86	77	118	133	74	83	0
Distance to Closest Structure	40 mi (64 km)	24 mi (39 km)	31 mi (50 km)	15 mi (24 km)	26 mi (42 km)	15 mi (24 km)	27 mi (44 km)	25 mi (40 km)	37 mi (59 km)
Distance to Furthest Structure	43 mi (70 km)	39 mi (62 km)	43 mi (69 km)	27 mi (44 km)	43 mi (69 km)	39 mi (62 km)	41 mi (66 km)	39 mi (63 km)	43 mi (69 km)

SIMULATED CONDITIONS

3

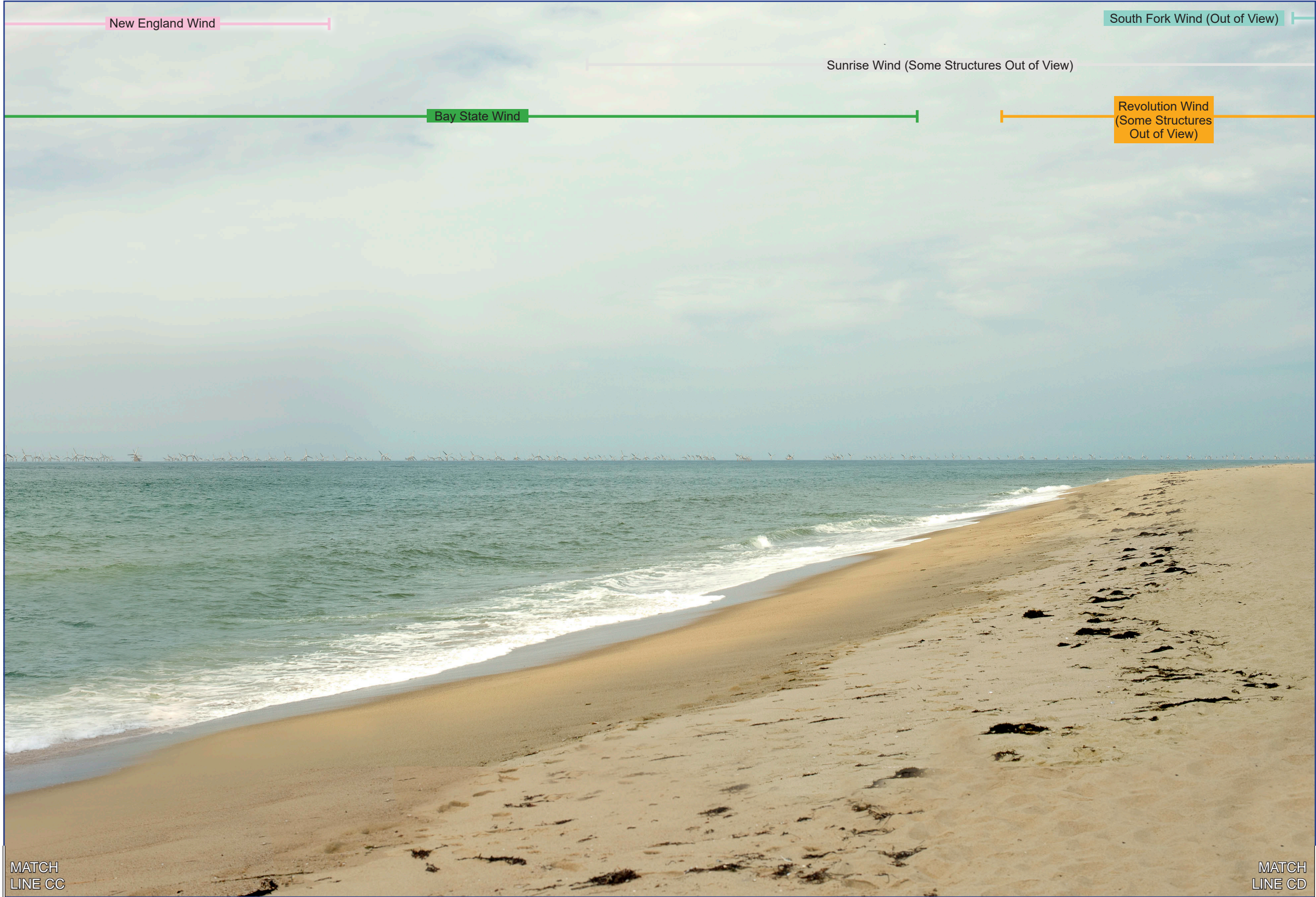




The page should viewed at 11" x 17" approximately 15" from viewer's eyes .



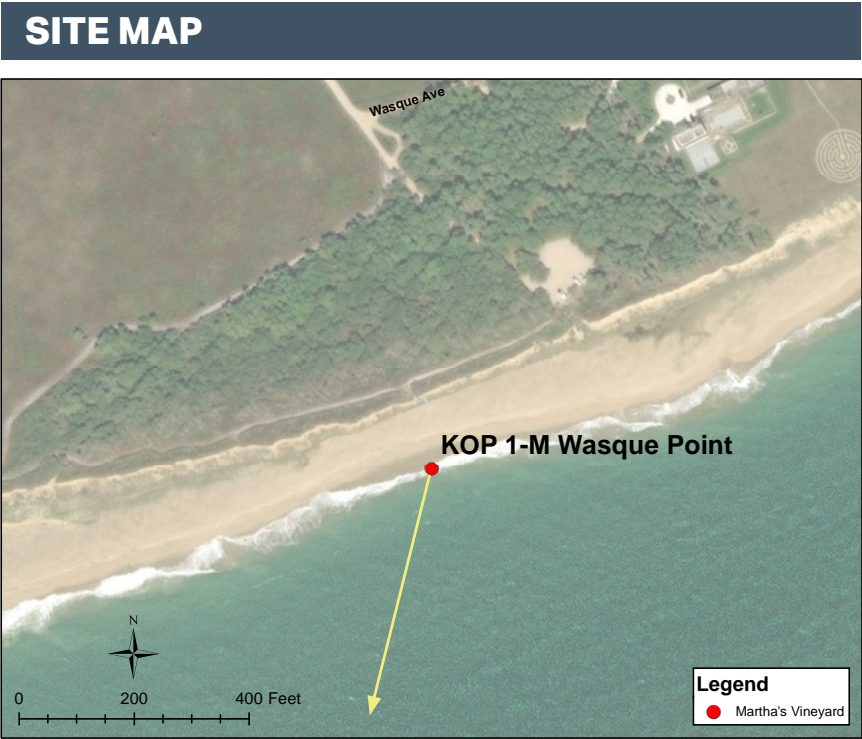
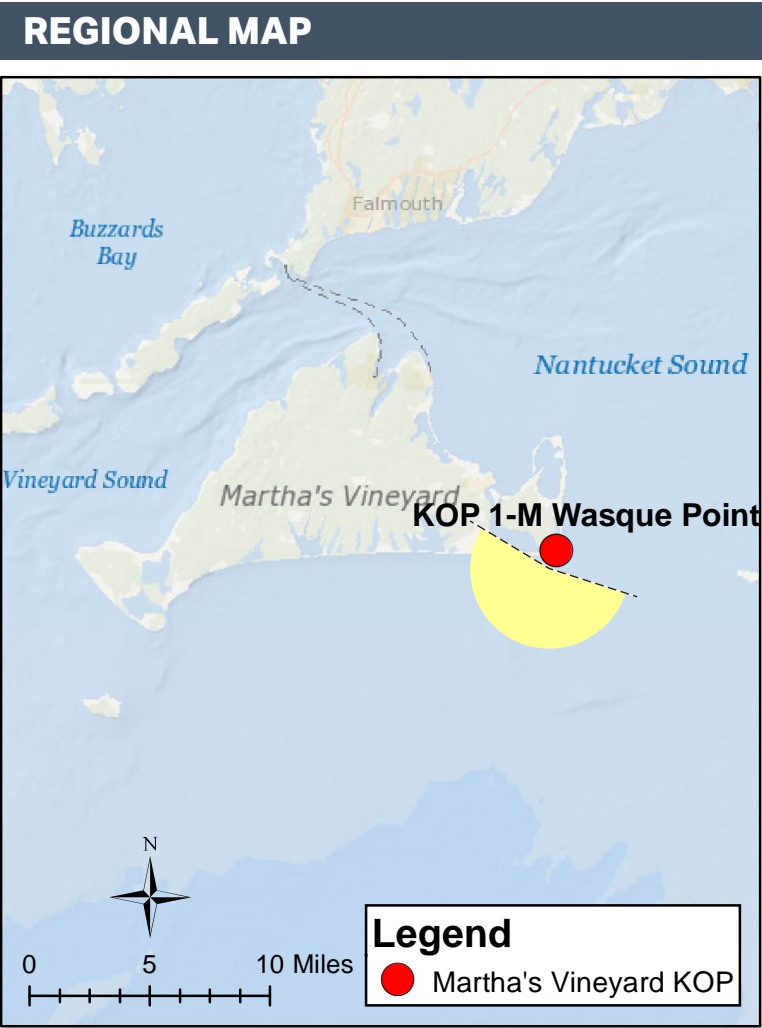
The page should viewed at 11" x 17" approximately 15" from viewer's eyes .



The page should viewed at 11" x 17" approximately 15" from viewer's eyes .

PANORAMIC PHOTOGRAPH - EXISTING CONDITIONS

1



MATCH LINES define visual simulation detail areas

- A-B is shown on pages 2-3
- AA-AB is shown on page 4
- BB-BC is shown on page 5
- CC-CD is shown on page 6

PROJECT VIEW

Horizontal Field of View: 193°	Furthest Visible WTG: 43 mi / 70 km
Vertical Field of View: 40°	Potential Number of Structures Visible: 593
Nearest WTG: 15 mi / 24 km	Potential Number of Structures Not Visible: 321

PHOTOGRAPH AND SITE

Time of photograph: 9:01AM	Viewing direction: South (194°)
Date of photograph: 6-25-20	Latitude: 41.351077°N
L/SCA: Ocean Beach, Costal Scrub, Rural/Residential	Longitude: 70.454821°W
	Lighting Direction: Backlit diffused

ENVIRONMENT

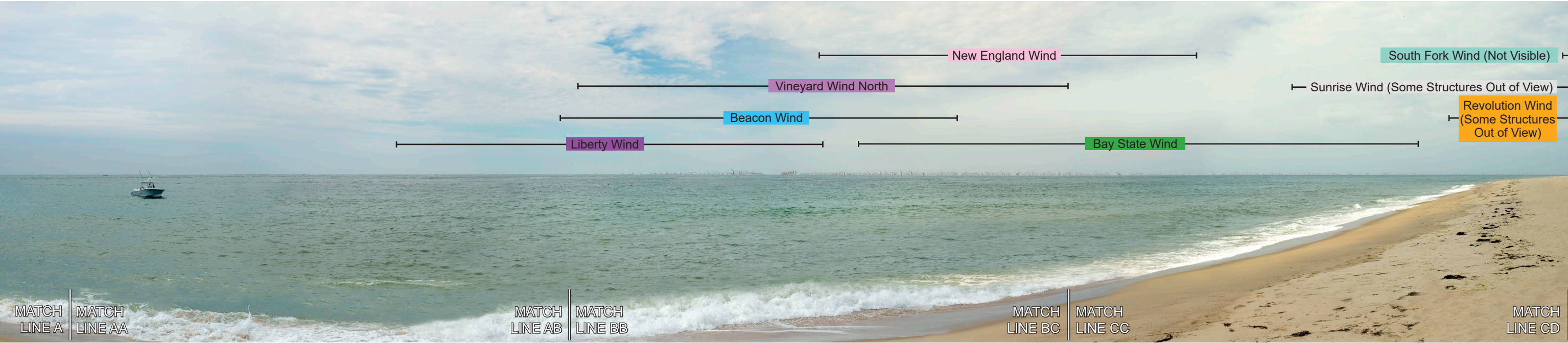
Temperature: 77° F
Humidity: 58%
Wind Dir & Speed: SSW 14mph
Weather Condition: Cloudy

CAMERA

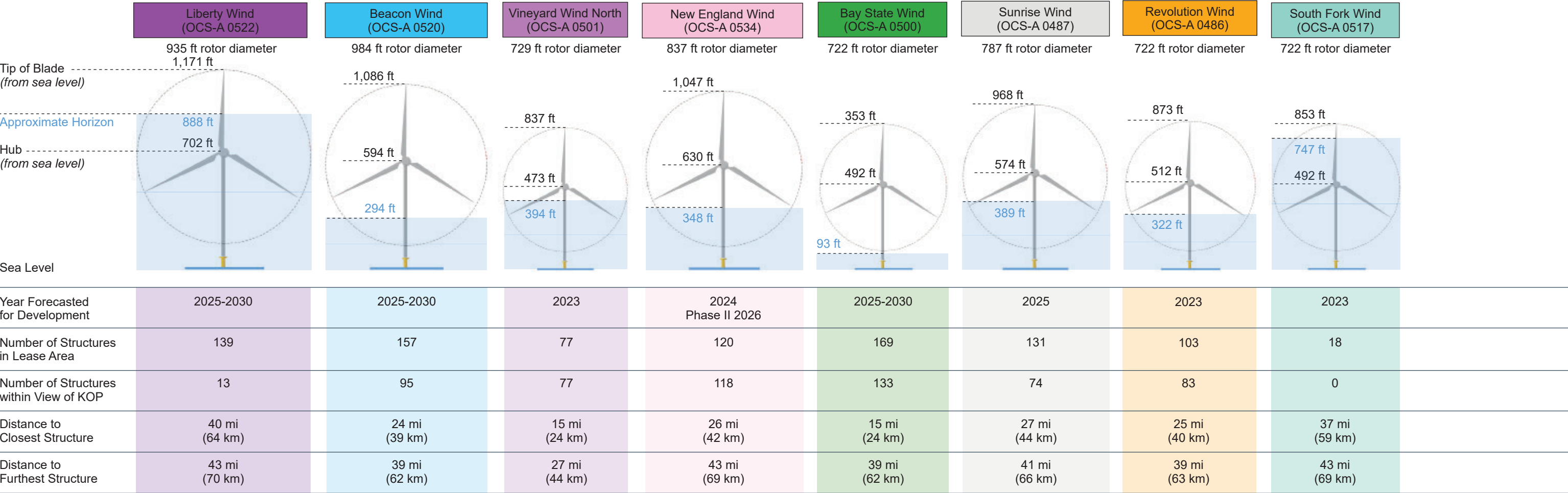
Camera Elevation: 6.5 ft / 6.3 m
Nikon D4
Nikon 50mm
ISO: 100
Fstop: f/7.1
Shutter: 1/1250 sec
Exposure bias: -0.7 step

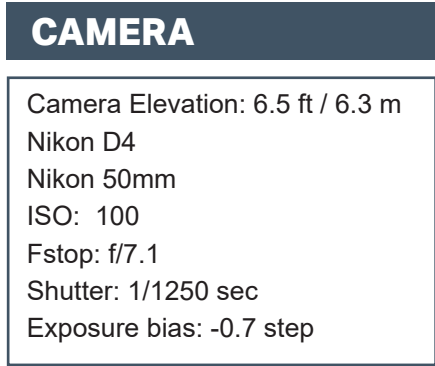
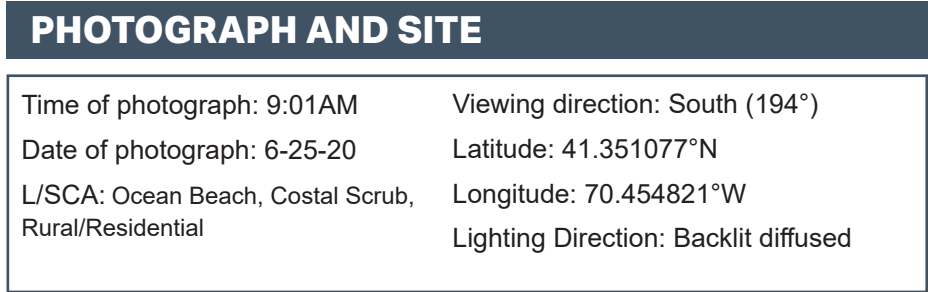
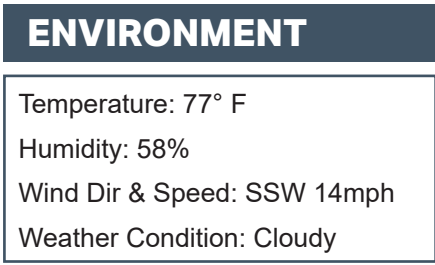
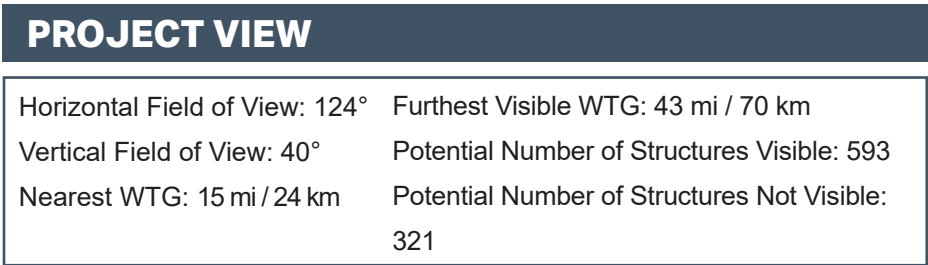
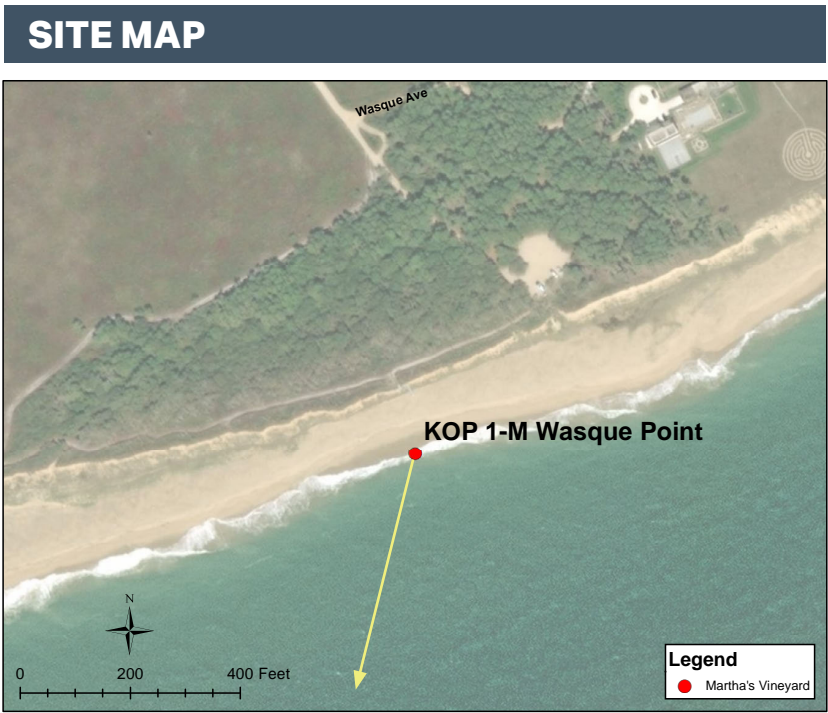
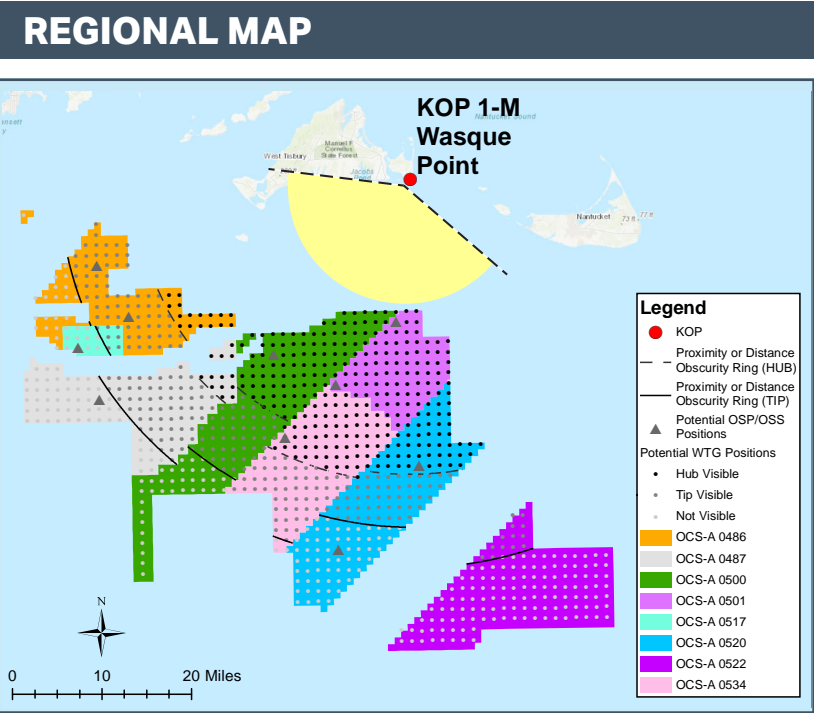
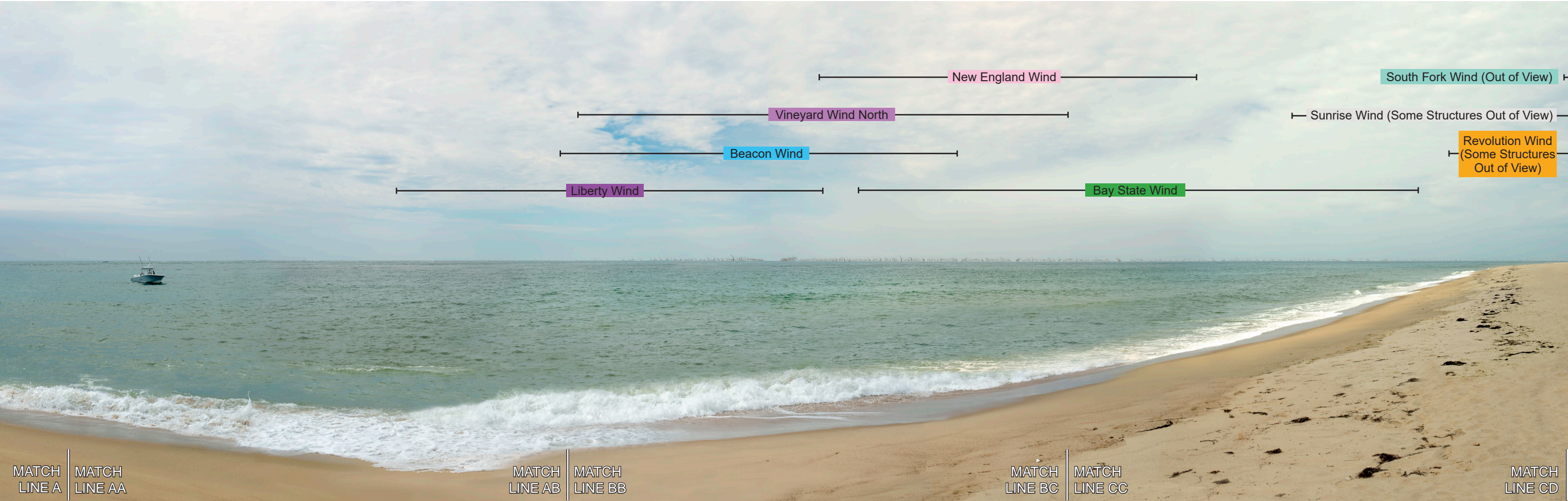
SIMULATED CONDITIONS

2



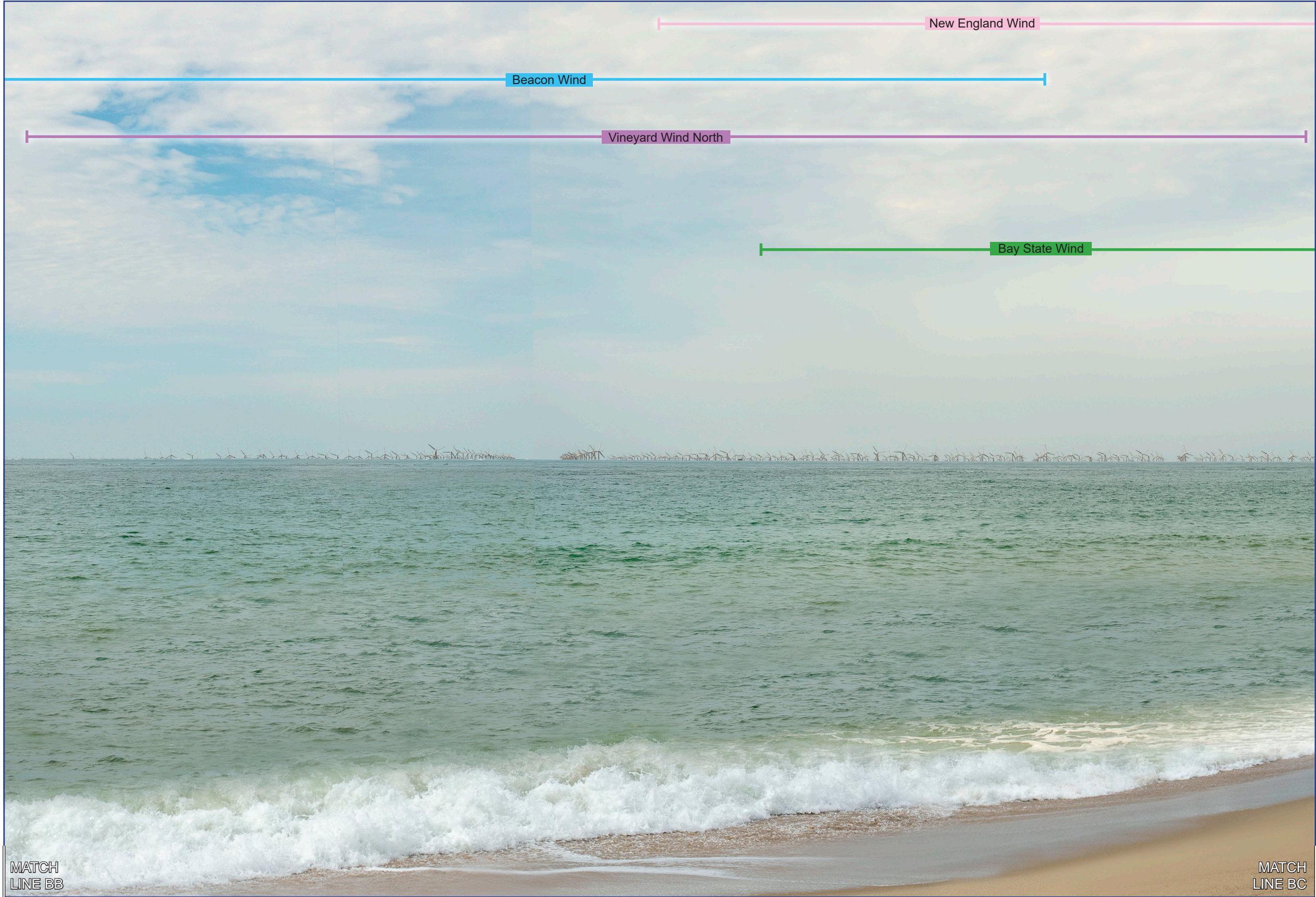
VISIBILTY OF CLOSEST TURBINES



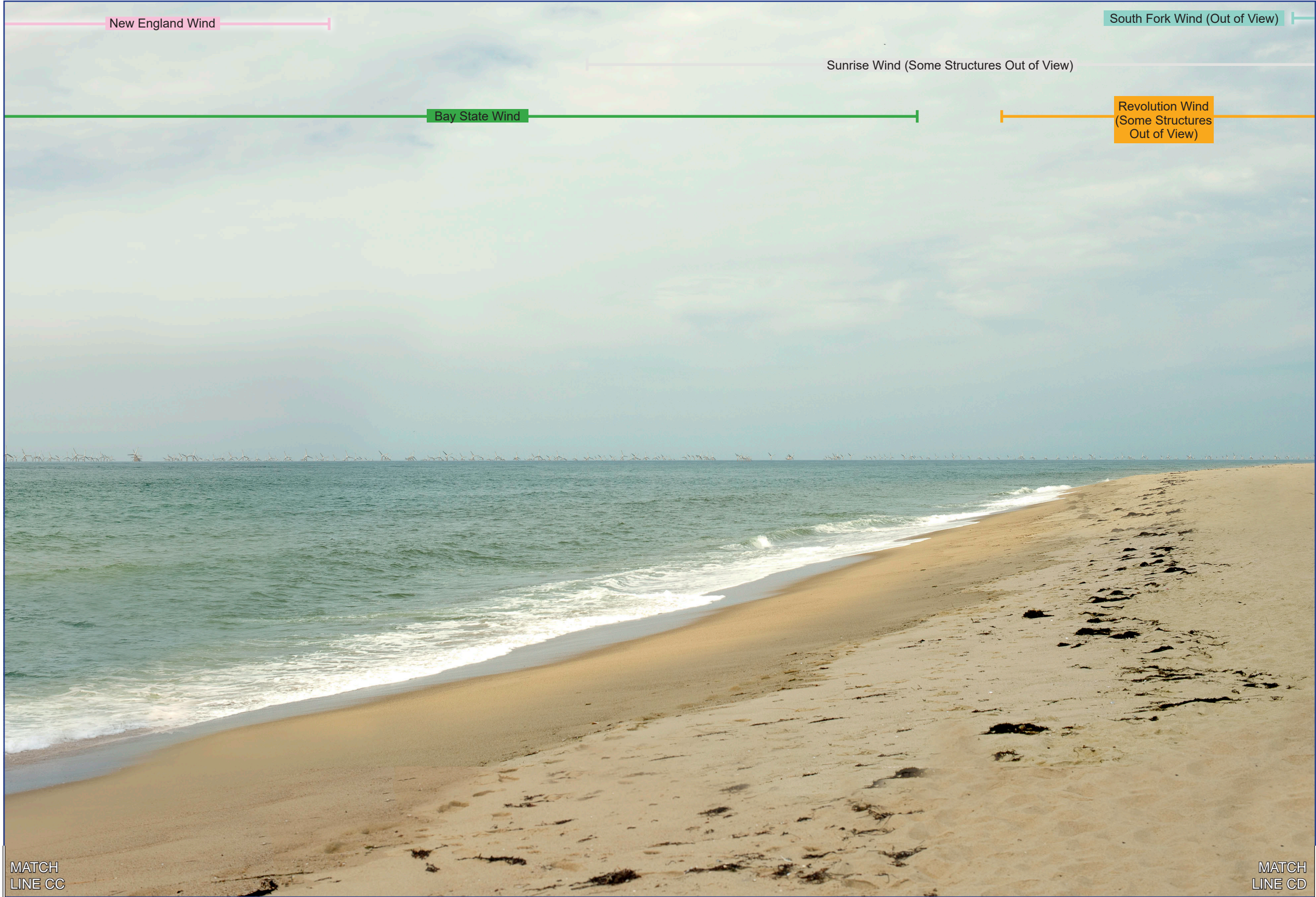




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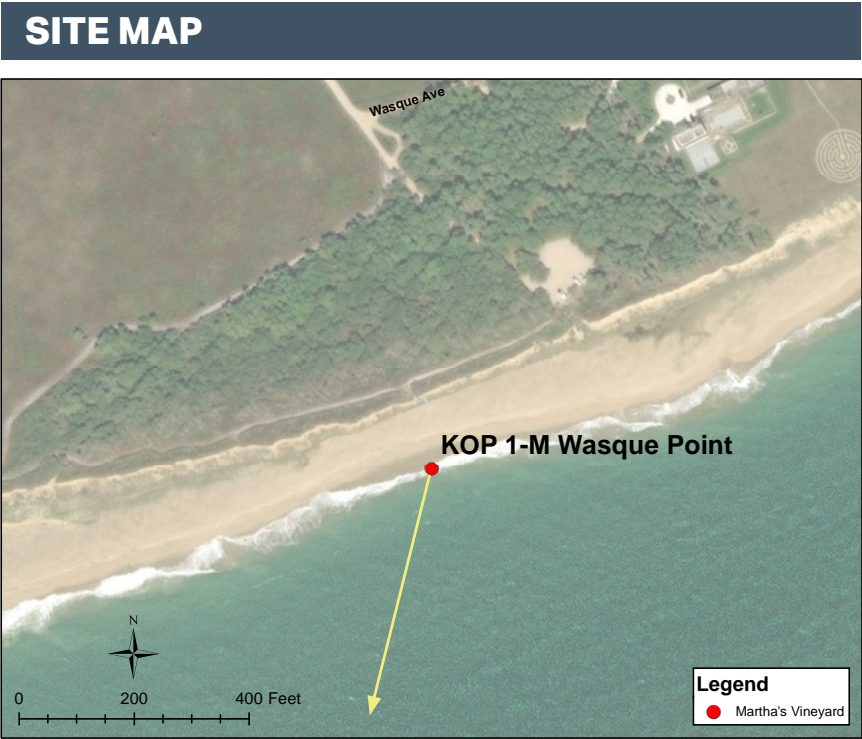
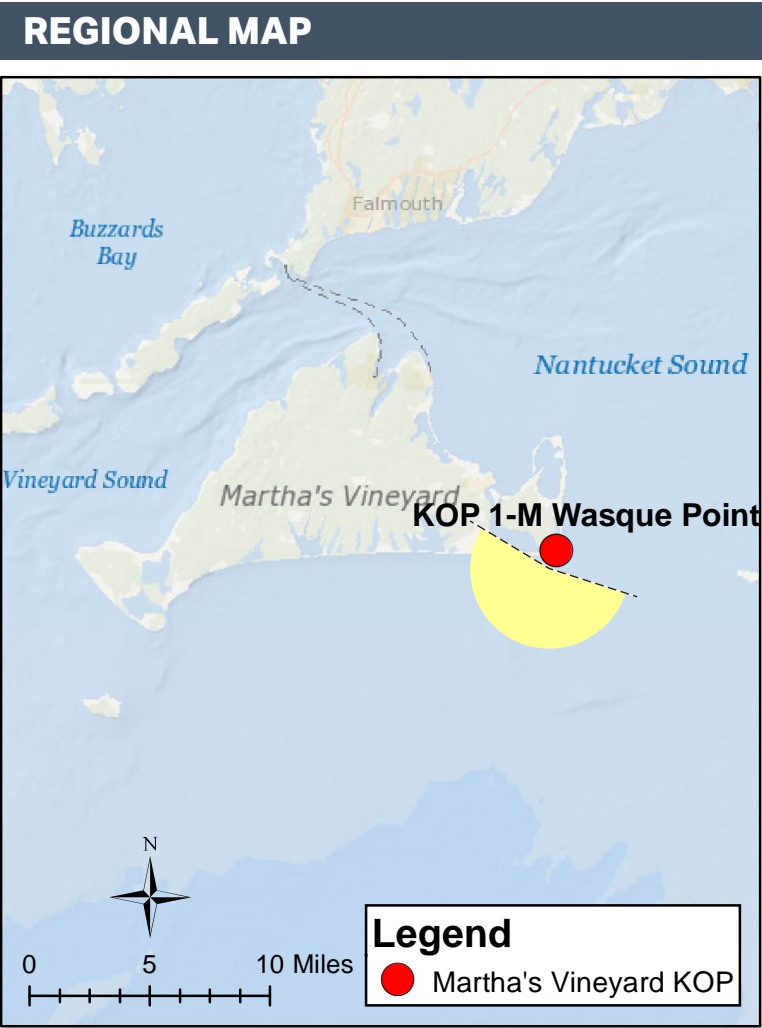
The page should viewed at 11" x 17" approximately 15" from viewer's eyes .



The page should viewed at 11" x 17" approximately 15" from viewer's eyes .

PANORAMIC PHOTOGRAPH - EXISTING CONDITIONS

1



MATCH LINES define visual simulation detail areas

- A-B is shown on pages 2-3
- AA-AB is shown on page 4
- BB-BC is shown on page 5
- CC-CD is shown on page 6

PROJECT VIEW

Horizontal Field of View: 193°	Furthest Visible WTG: 43 mi / 69 km
Vertical Field of View: 40°	Potential Number of Structures Visible: 86
Nearest WTG: 31 mi / 50 km	Potential Number of Structures Not Visible: 63

PHOTOGRAPH AND SITE

Time of photograph: 9:01AM	Viewing direction: South (194°)
Date of photograph: 6-25-20	Latitude: 41.351077°N
L/SCA: Ocean Beach, Costal Scrub, Rural/Residential	Longitude: 70.454821°W
	Lighting Direction: Backlit diffused

ENVIRONMENT

Temperature: 77° F
Humidity: 58%
Wind Dir & Speed: SSW 14mph
Weather Condition: Cloudy

CAMERA

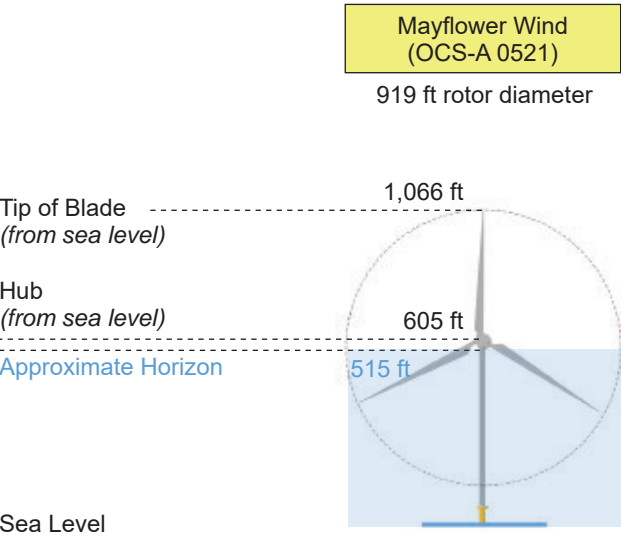
Camera Elevation: 20.5 ft / 6.3 m
Nikon D4
Nikon 50mm
ISO: 100
Fstop: f/7.1
Shutter: 1/1250 sec
Exposure bias: -0.7 step

SIMULATED CONDITIONS

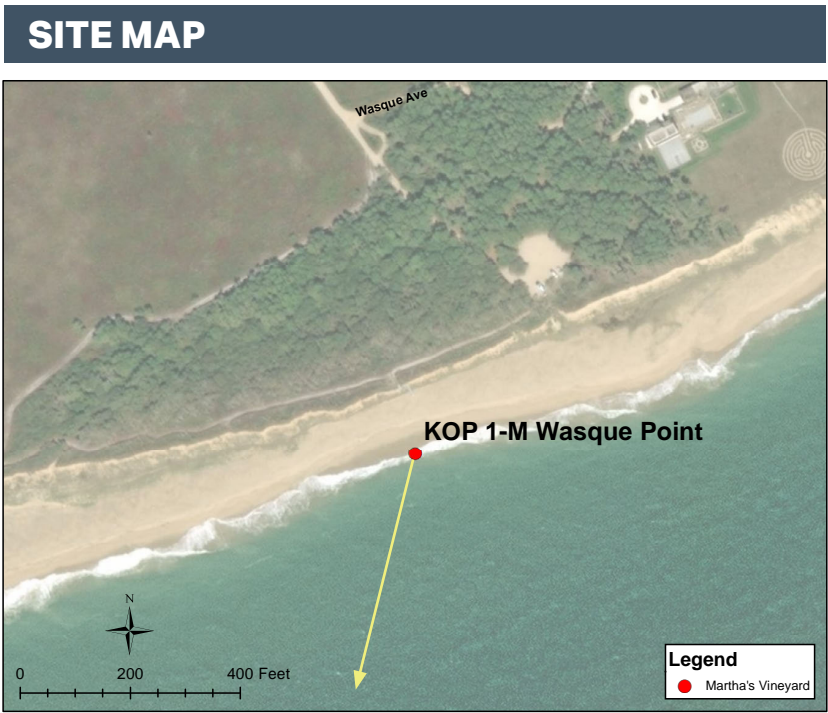
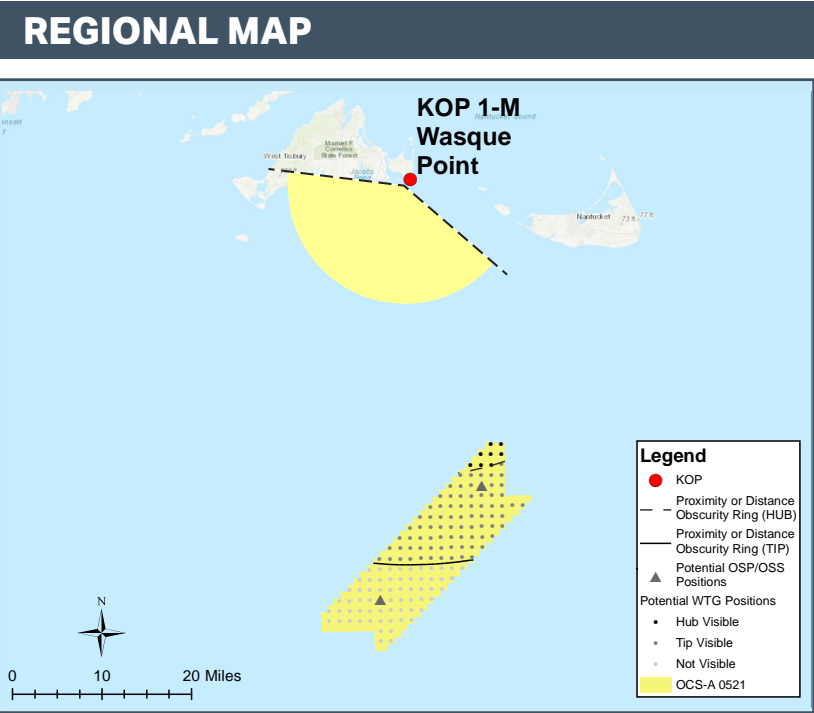
2



VISIBILTY OF CLOSEST TURBINES



Year Forecasted for Development	2025	
Number of Structures in Lease Area	149	
Number of Structures within View of KOP	86	
Distance to Closest Structure	20.92 mi (33.66 km)	
Distance to Furthest Structure	42.84 mi (68.94 km)	



PROJECT VIEW

Horizontal Field of View: 124°	Furthest Visible WTG: 43 mi / 69 km
Vertical Field of View: 40°	Potential Number of Structures Visible: 86
Nearest WTG: 31 mi / 50 km	Potential Number of Structures Not Visible: 63

ENVIRONMENT

Temperature: 77° F
Humidity: 58%
Wind Dir & Speed: SSW 14mph
Weather Condition: Cloudy

PHOTOGRAPH AND SITE

Time of photograph: 9:01AM	Viewing direction: South (194°)
Date of photograph: 6-25-20	Latitude: 41.351077°N
L/SCA: Ocean Beach, Costal Scrub, Rural/Residential	Longitude: 70.454821°W
	Lighting Direction: Backlit diffused

CAMERA

Camera Elevation: 20.5 ft / 6.3 m
Nikon D4
Nikon 50mm
ISO: 100
Fstop: f/7.1
Shutter: 1/1250 sec
Exposure bias: -0.7 step



The page should viewed at 11" x 17" approximately 15" from viewer's eyes .



The page should viewed at 11" x 17" approximately 15" from viewer's eyes .



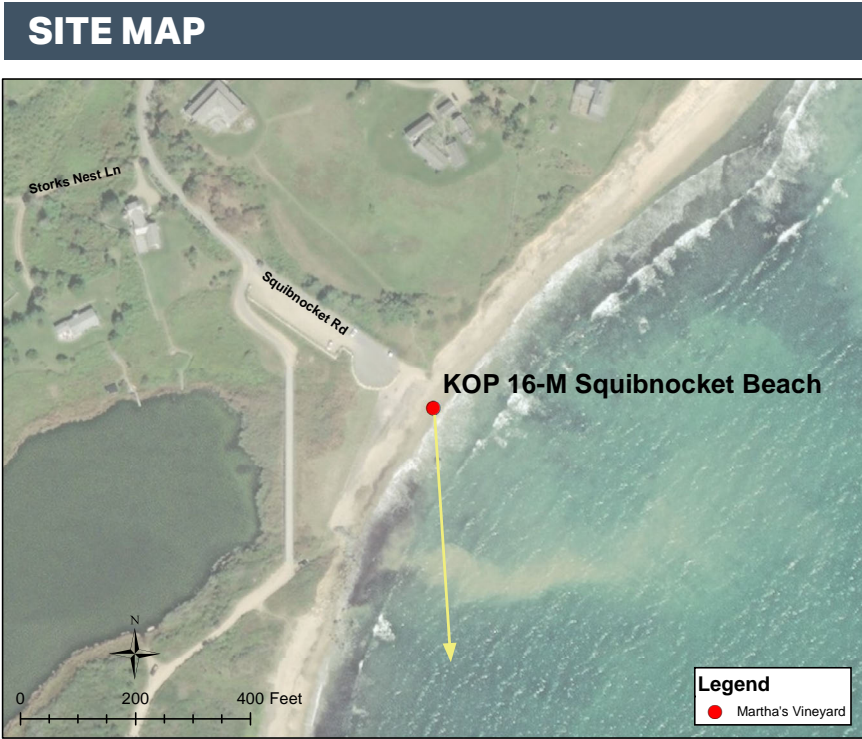
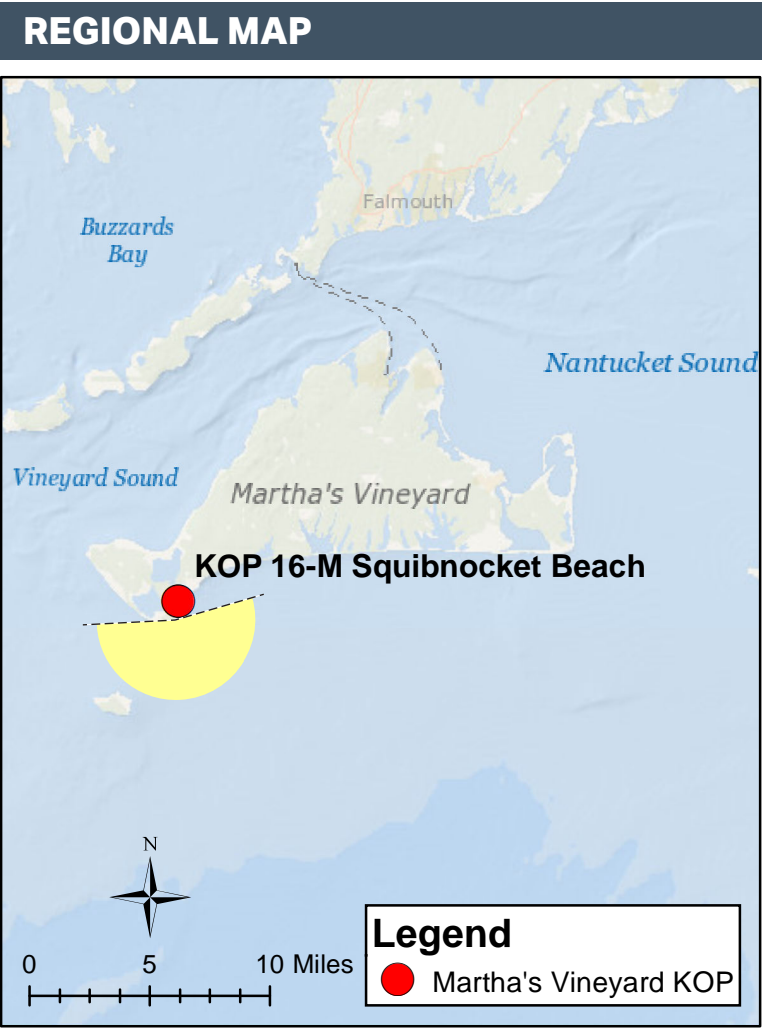
MATCH
LINE BC MATCH
LINE CC

MATCH
LINE CD MATCH
LINE B

The page should viewed at 11" x 17" approximately 15" from viewer's eyes .

PANORAMIC PHOTOGRAPH - EXISTING CONDITIONS

1



MATCH LINES define visual simulation detail areas

A-B is shown on pages 2-3

AA-AB is shown on page 4

BB-BC is shown on page 5

CC-CD is shown on page 6

PROJECT VIEW

Horizontal Field of View: 193°	Furthest Visible WTG: 39 mi / 63 km
Vertical Field of View: 40°	Potential Number of Structures Visible: 191
Nearest WTG: 13 mi / 22 km	Potential Number of Structures Not Visible: 258

PHOTOGRAPH AND SITE

Time of photograph: 2:08PM	Viewing direction: Southeast (176°)
Date of photograph: 11-6-20	Latitude: 41.318873°N
L/SCA: Ocean Beach, Open Ocean	Longitude: 70.764908°W
	Lighting Direction: Sidelit diffused

ENVIRONMENT

Temperature: 65° F
Humidity: 78%
Wind Dir & Speed: SSW 16mph
Weather Condition: Hazy

CAMERA

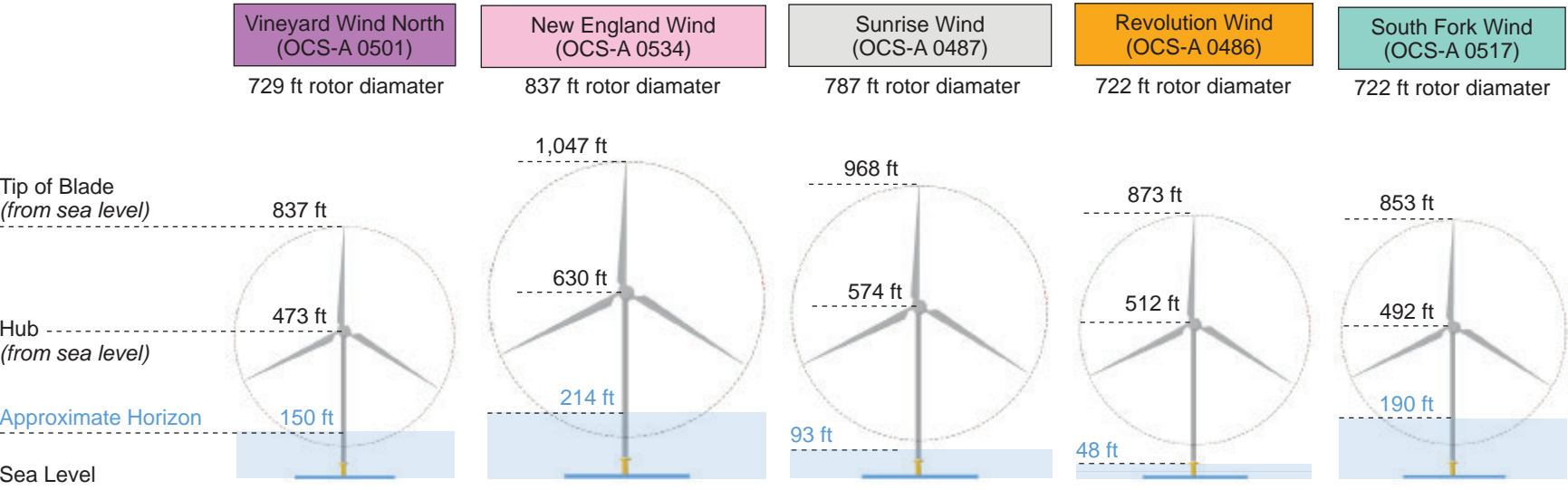
Camera Elevation: 16.5 ft / 5.0 m
Nikon D4
Nikon 50mm
ISO: 100
Fstop: f/7.1
Shutter: 1/1250 sec
Exposure bias: -0.7 step

SIMULATED CONDITIONS

2



VISIBILTY OF CLOSEST TURBINES



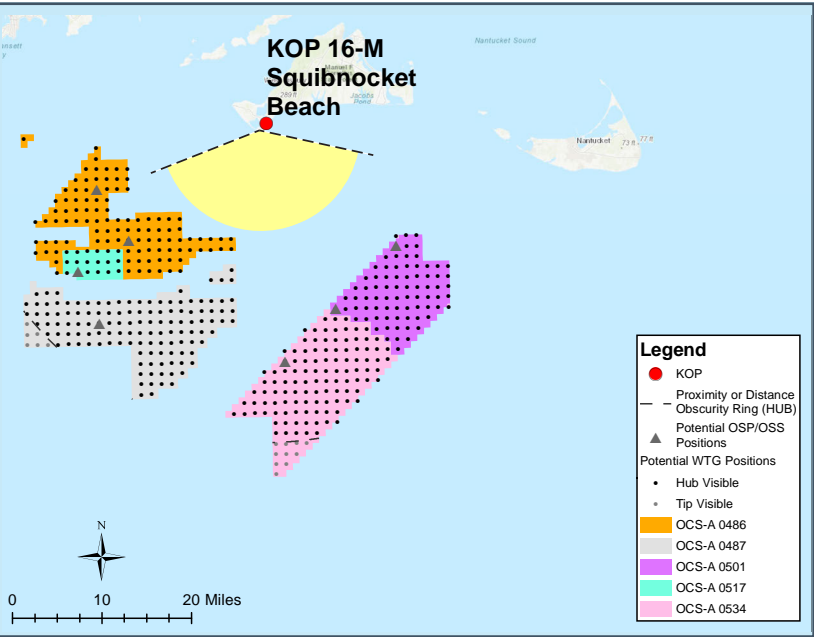
Year Forecasted for Development	2023	2024 Phase II 2026	2025	2023	2023
Number of Structures in Lease Area	77	120	131	103	18
Number of Structures within View of KOP	71	120	0	0	0
Distance to Closest Structure	20 mi (32 km)	23 mi (37 km)	17 mi (27 km)	13 mi (22 km)	22 mi (35 km)
Distance to Furthest Structure	29 mi (47 km)	39 mi (63 km)	36 mi (59 km)	30 mi (47 km)	28 mi (45 km)

SIMULATED CONDITIONS

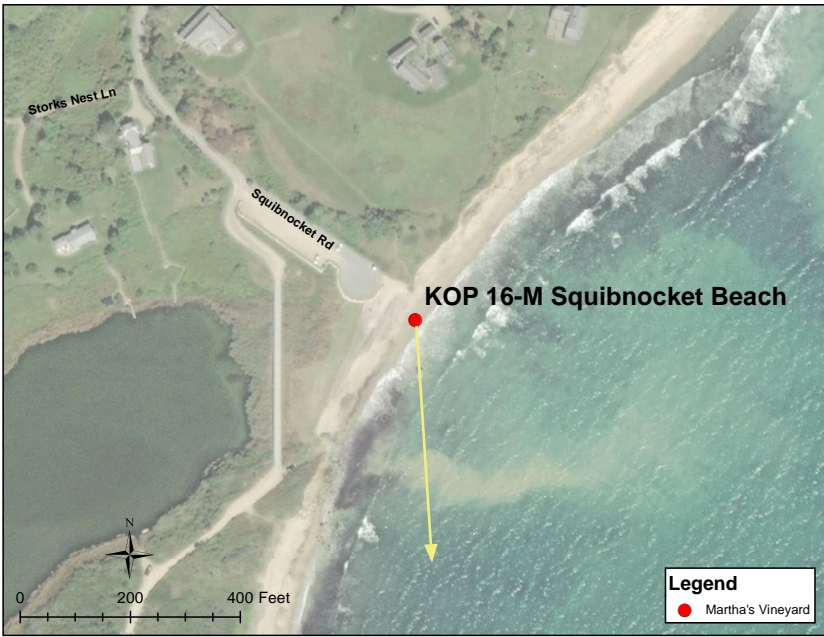
3



REGIONAL MAP



SITE MAP



PROJECT VIEW

Horizontal Field of View: 193°	Furthest Visible WTG: 39 mi / 63 km
Vertical Field of View: 40°	Potential Number of Structures Visible: 191
Nearest WTG: 13 mi / 22 km	Potential Number of Structures Not Visible: 258

PHOTOGRAPH AND SITE

Time of photograph: 2:08PM	Viewing direction: Southeast (176°)
Date of photograph: 11-6-20	Latitude: 41.318873°N
L/SCA: Ocean Beach, Open Ocean	Longitude: 70.764908°W
	Lighting Direction: Sidelit diffused

ENVIRONMENT

Temperature: 65° F
Humidity: 78%
Wind Dir & Speed: SSW 16mph
Weather Condition: Hazy

CAMERA

Camera Elevation: 16.5 ft / 5.0 m
Nikon D4
Nikon 50mm
ISO: 100
Fstop: f/7.1
Shutter: 1/1250 sec
Exposure bias: -0.7 step



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The page should viewed at 11" x 17" approximately 15" from viewer's eyes .



MATCH
LINE BC

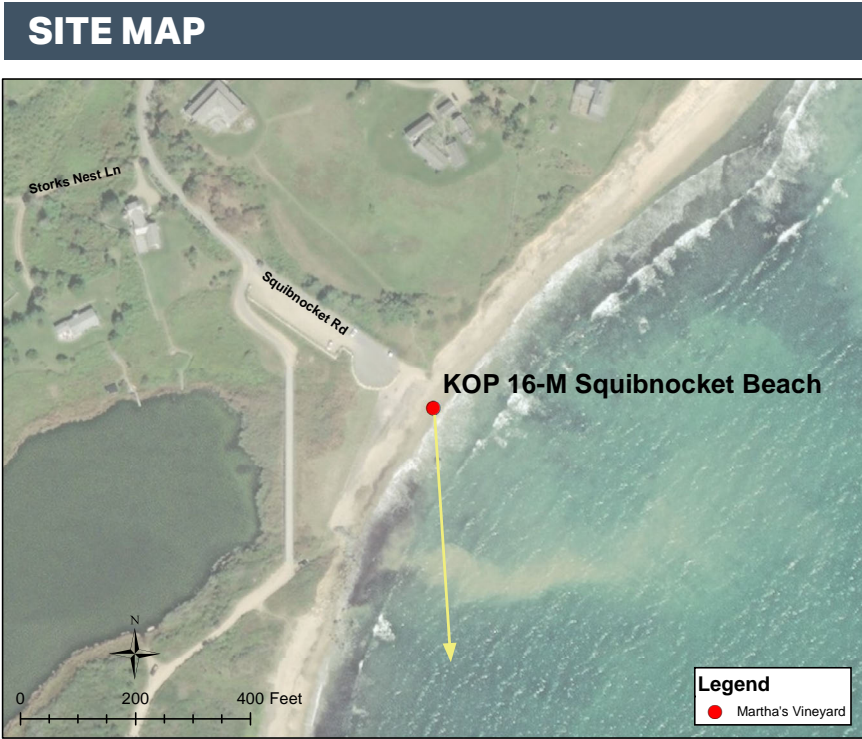
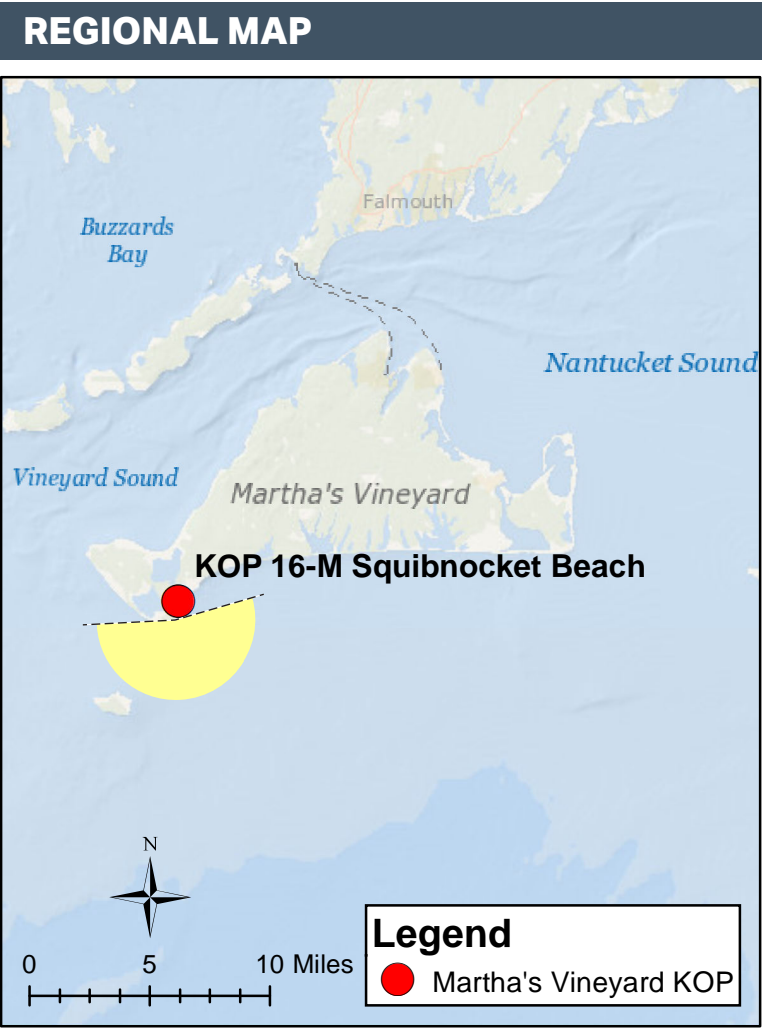
MATCH
LINE CC

MATCH
LINE CD

MATCH
LINE B

PANORAMIC PHOTOGRAPH - EXISTING CONDITIONS

1



MATCH LINES define visual simulation detail areas

A-B is shown on pages 2-3

AA-AB is shown on page 4

BB-BC is shown on page 5

CC-CD is shown on page 6

PROJECT VIEW

Horizontal Field of View: 193°	Furthest Visible WTG: 45 mi / 72 km
Vertical Field of View: 40°	Potential Number of Structures Visible: 239
Nearest WTG: 12 mi / 20 km	Potential Number of Structures Not Visible: 359

PHOTOGRAPH AND SITE

Time of photograph: 2:08PM	Viewing direction: Southeast (176°)
Date of photograph: 11-6-20	Latitude: 41.318873°N
L/SCA: Ocean Beach, Open Ocean	Longitude: 70.764908°W
	Lighting Direction: Sidelit diffused

ENVIRONMENT

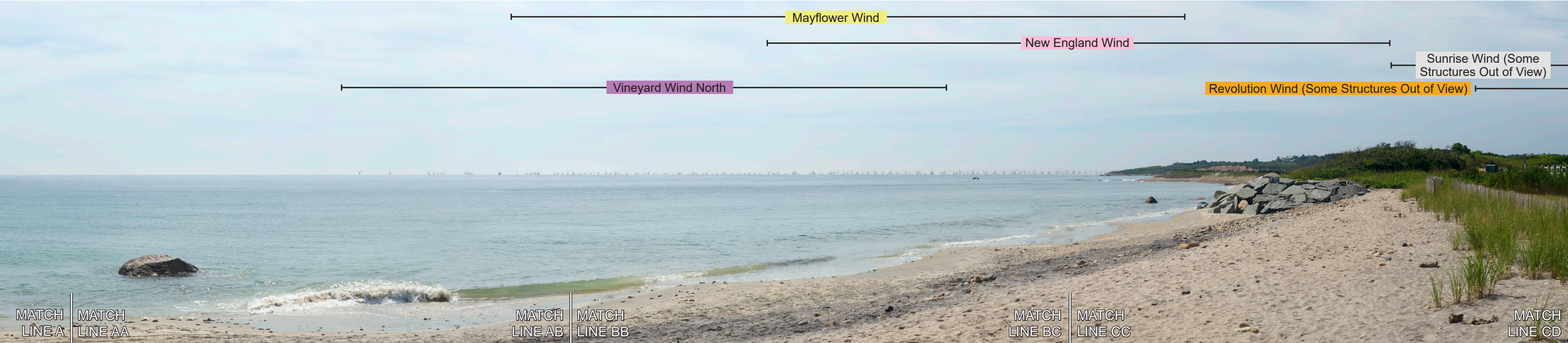
Temperature: 65° F
Humidity: 78%
Wind Dir & Speed: SSW 16mph
Weather Condition: Hazy

CAMERA

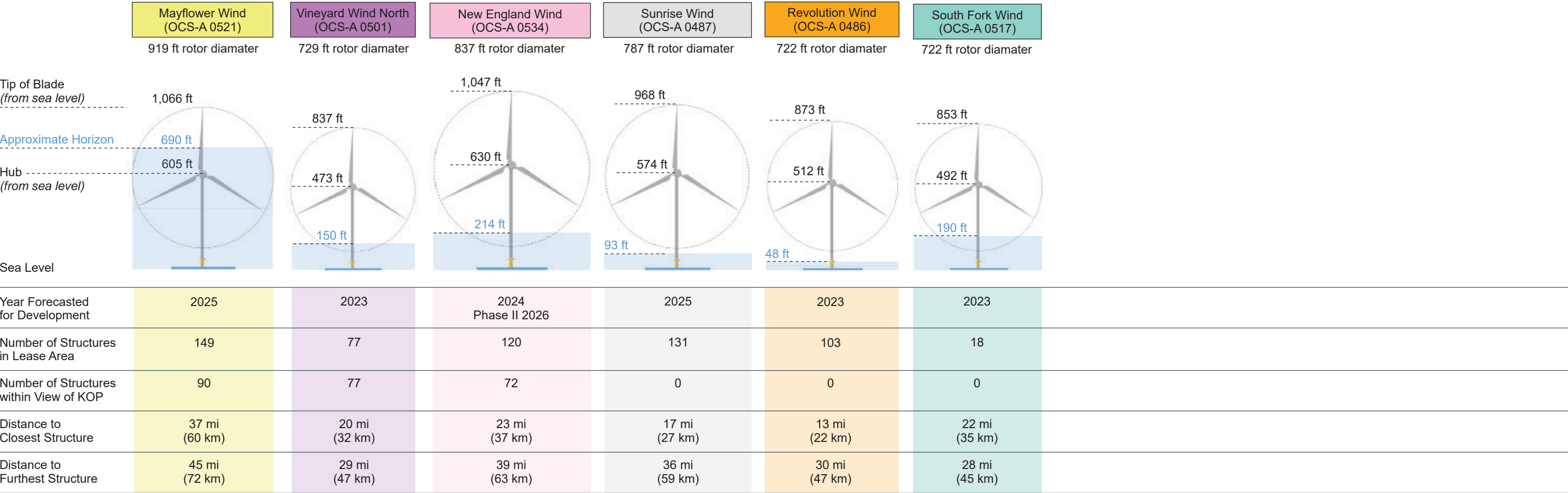
Camera Elevation: 16.5 ft / 5.0 m
Nikon D4
Nikon 50mm
ISO: 100
Fstop: f/7.1
Shutter: 1/1250 sec
Exposure bias: -0.7 step

SIMULATED CONDITIONS

2

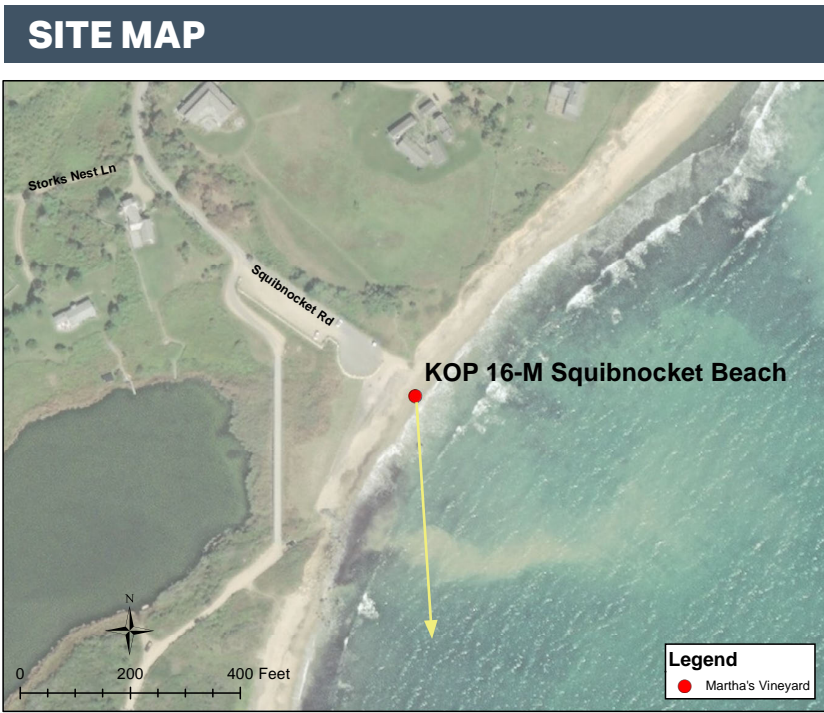
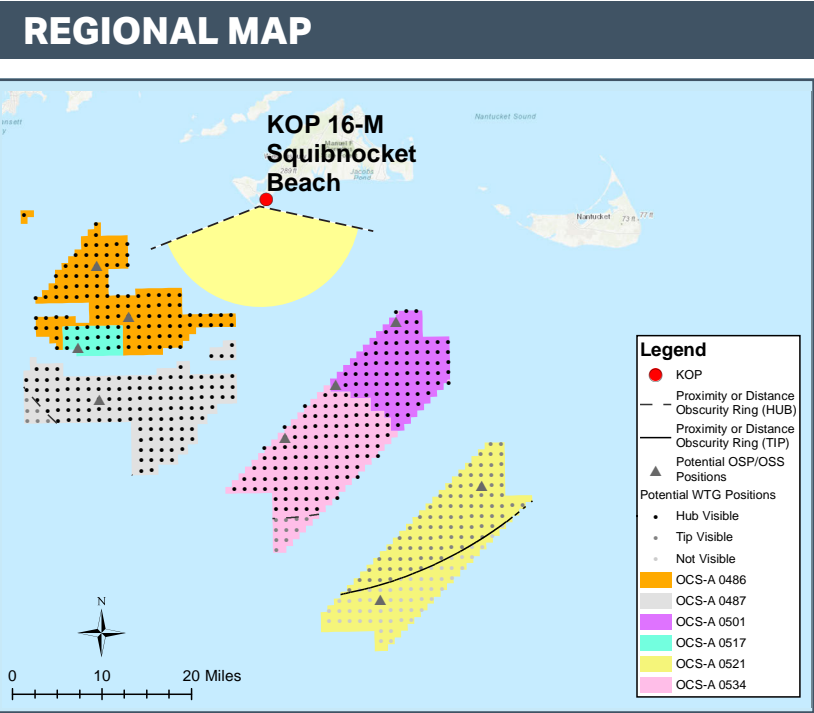


VISIBILTY OF CLOSEST TURBINES



SIMULATED CONDITIONS

3



PROJECT VIEW

Horizontal Field of View: 193°	Furthest Visible WTG: 45 mi / 72 km
Vertical Field of View: 40°	Potential Number of Structures Visible: 239
Nearest WTG: 12 mi / 20 km	Potential Number of Structures Not Visible: 359

PHOTOGRAPH AND SITE

Time of photograph: 2:08PM	Viewing direction: Southeast (176°)
Date of photograph: 11-6-20	Latitude: 41.318873°N
L/SCA: Ocean Beach, Open Ocean	Longitude: 70.764908°W
	Lighting Direction: Sidelit diffused

ENVIRONMENT

Temperature: 65° F
Humidity: 78%
Wind Dir & Speed: SSW 16mph
Weather Condition: Hazy

CAMERA

Camera Elevation: 16.5 ft / 5.0 m
Nikon D4
Nikon 50mm
ISO: 100
Fstop: f/7.1
Shutter: 1/1250 sec
Exposure bias: -0.7 step



The page should viewed at 11" x 17" approximately 15" from viewer's eyes .



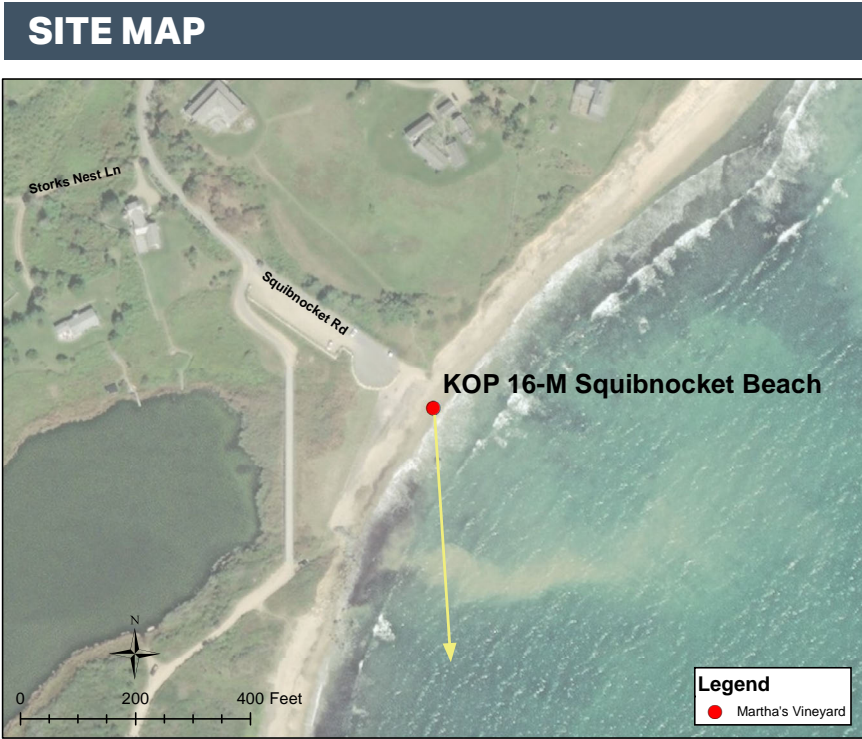
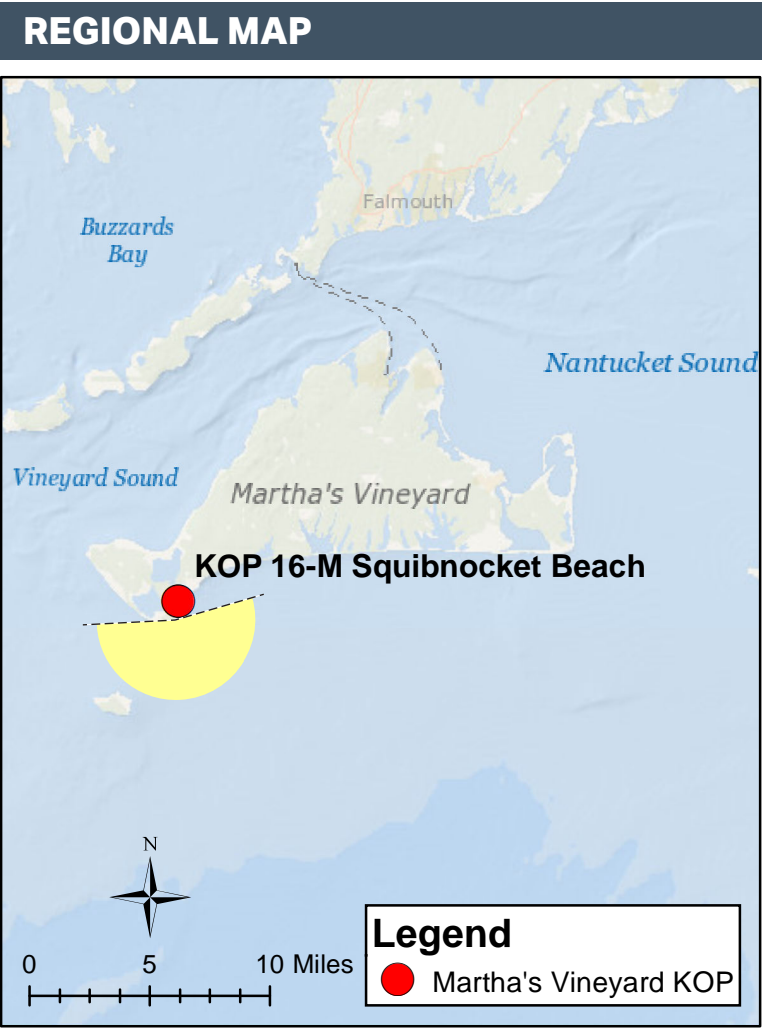
The page should viewed at 11" x 17" approximately 15" from viewer's eyes .



The page should viewed at 11" x 17" approximately 15" from viewer's eyes .

PANORAMIC PHOTOGRAPH - EXISTING CONDITIONS

1



MATCH LINES define visual simulation detail areas

A-B is shown on pages 2-3

AA-AB is shown on page 4

BB-BC is shown on page 5

CC-CD is shown on page 6

PROJECT VIEW

Horizontal Field of View: 193°	Furthest Visible WTG: 45 mi / 72 km
Vertical Field of View: 40°	Potential Number of Structures Visible: 425
Nearest WTG: 13 mi / 22 km	Potential Number of Structures Not Visible: 638

PHOTOGRAPH AND SITE

Time of photograph: 2:08PM	Viewing direction: Southeast (176°)
Date of photograph: 11-6-20	Latitude: 41.318873°N
L/SCA: Ocean Beach, Open Ocean	Longitude: 70.764908°W
	Lighting Direction: Sidelit diffused

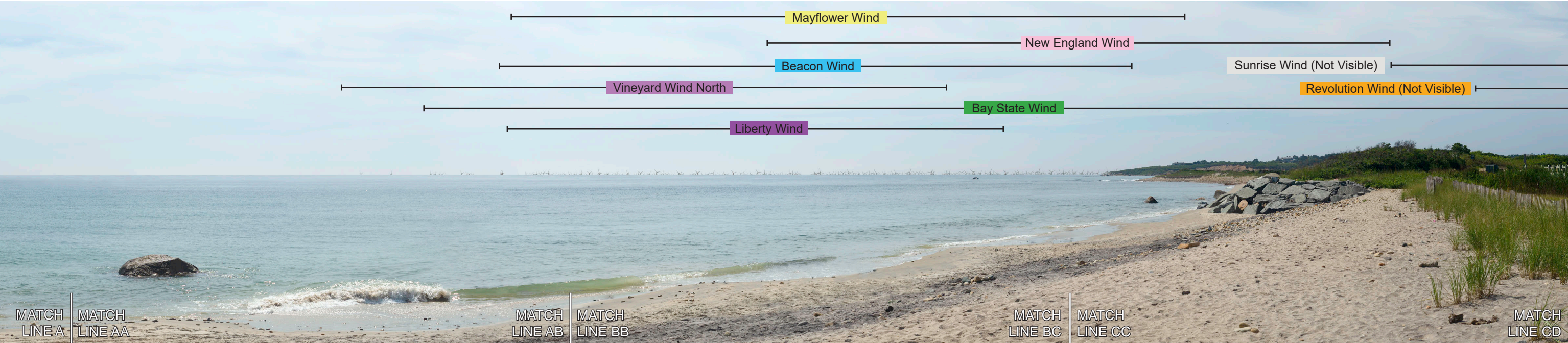
ENVIRONMENT

Temperature: 65° F
Humidity: 78%
Wind Dir & Speed: SSW 16mph
Weather Condition: Hazy

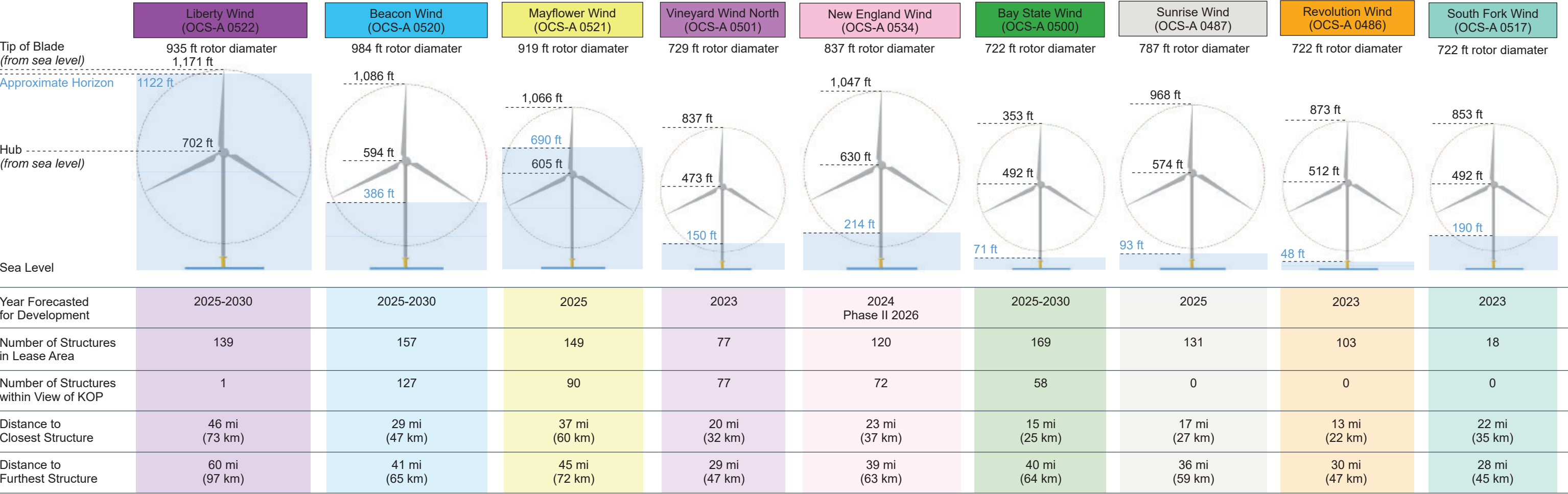
CAMERA

Camera Elevation: 16.5 ft / 5.0 m
Nikon D4
Nikon 50mm
ISO: 100
Fstop: f/7.1
Shutter: 1/1250 sec
Exposure bias: -0.7 step

SIMULATED CONDITIONS

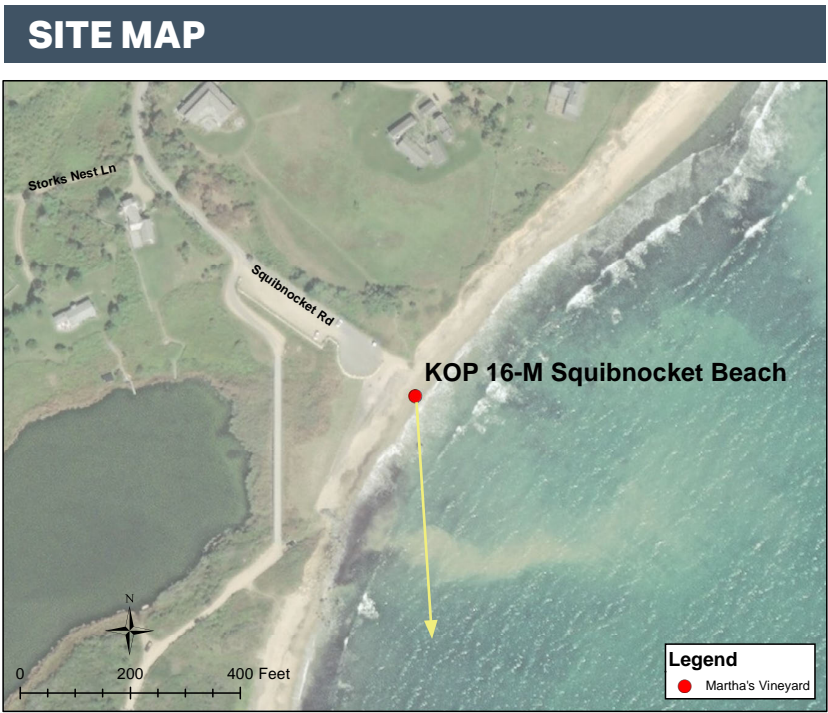
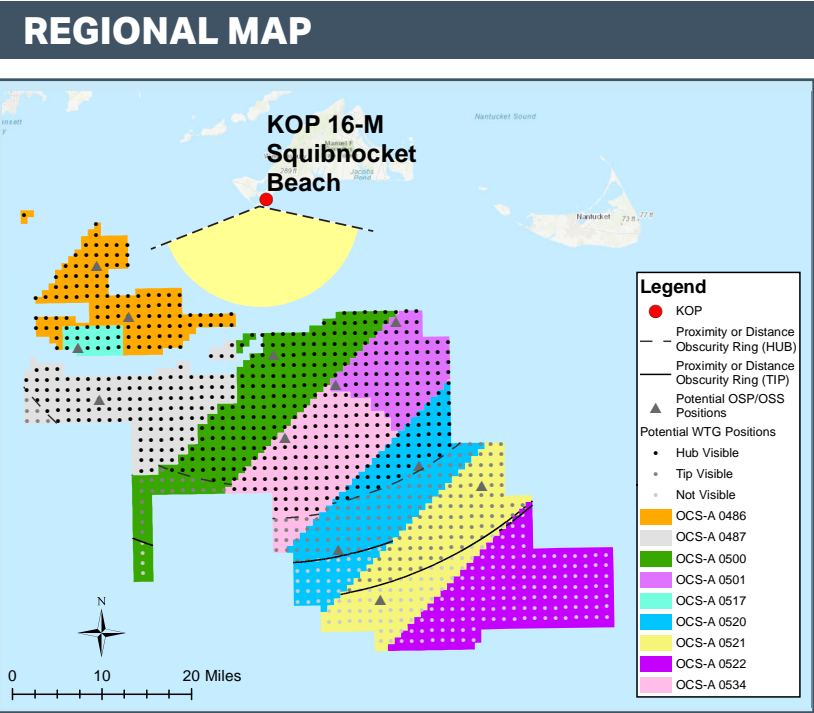


VISIBILTY OF CLOSEST TURBINES



SIMULATED CONDITIONS

3



PROJECT VIEW

Horizontal Field of View: 124°	Furthest Visible WTG: 45 mi / 72 km
Vertical Field of View: 40°	Potential Number of Structures Visible: 425
Nearest WTG: 13 mi / 22 km	Potential Number of Structures Not Visible: 638

ENVIRONMENT

Temperature: 65° F
Humidity: 78%
Wind Dir & Speed: SSW 16mph
Weather Condition: Hazy

PHOTOGRAPH AND SITE

Time of photograph: 2:08PM	Viewing direction: Southeast (176°)
Date of photograph: 11-6-20	Latitude: 41.318873°N
L/SCA: Ocean Beach, Open Ocean	Longitude: 70.764908°W
	Lighting Direction: Sidelit diffused

CAMERA

Camera Elevation: 16.5 ft / 5.0 m
Nikon D4
Nikon 50mm
ISO: 100
Fstop: f/7.1
Shutter: 1/1250 sec
Exposure bias: -0.7 step



MATCH
LINE A

MATCH
LINE AB

MATCH
LINE BB



MATCH
LINE AB

MATCH
LINE BC

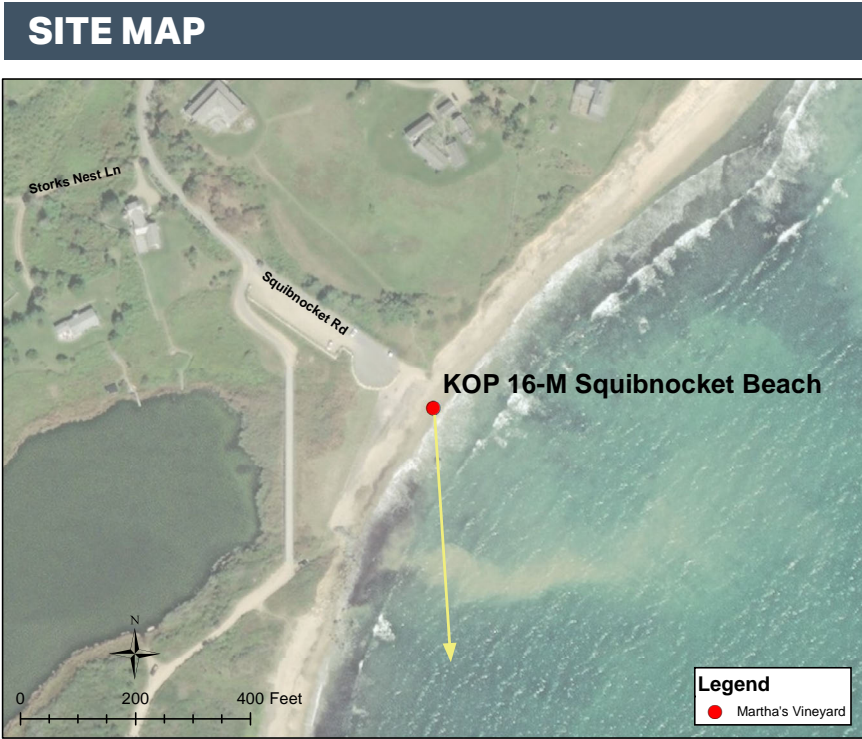
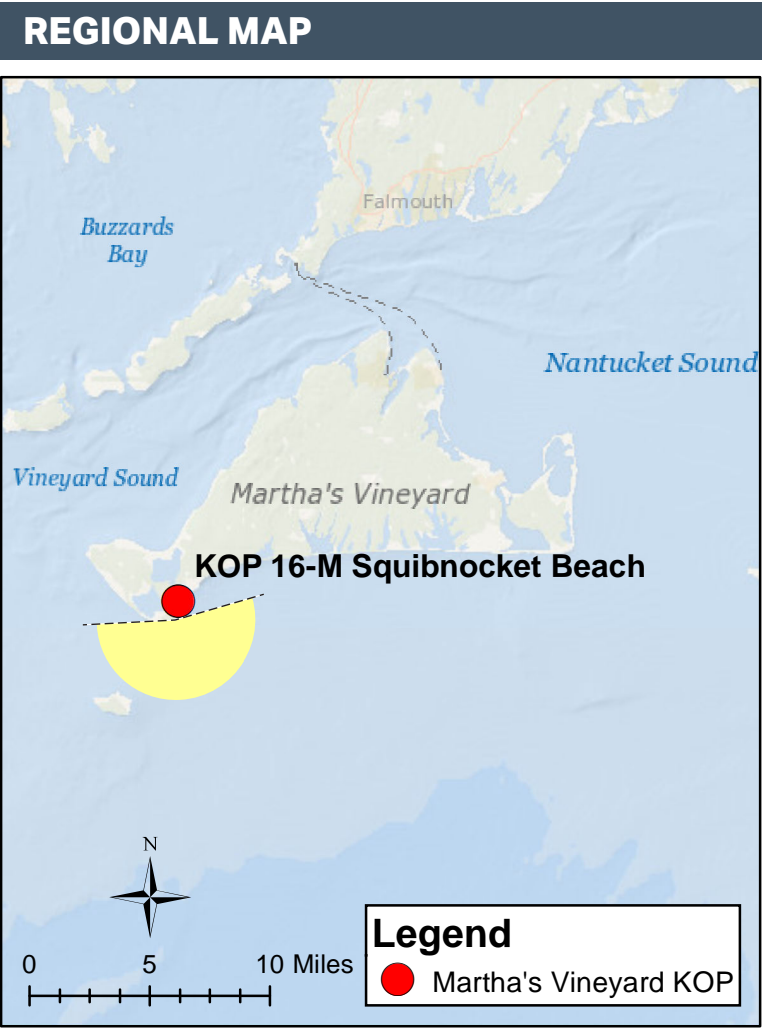
MATCH
LINE CC



The page should viewed at 11" x 17" approximately 15" from viewer's eyes .

PANORAMIC PHOTOGRAPH - EXISTING CONDITIONS

1



MATCH LINES define visual simulation detail areas

- A-B is shown on pages 2-3
- AA-AB is shown on page 4
- BB-BC is shown on page 5
- CC-CD is shown on page 6

PROJECT VIEW

Horizontal Field of View: 193°	Furthest Visible WTG: 45 mi / 72 km
Vertical Field of View: 40°	Potential Number of Structures Visible: 335
Nearest WTG: 13 mi / 22 km	Potential Number of Structures Not Visible: 579

PHOTOGRAPH AND SITE

Time of photograph: 2:08PM	Viewing direction: Southeast (176°)
Date of photograph: 11-6-20	Latitude: 41.318873°N
L/SCA: Ocean Beach, Open Ocean	Longitude: 70.764908°W
	Lighting Direction: Sidelit diffused

ENVIRONMENT

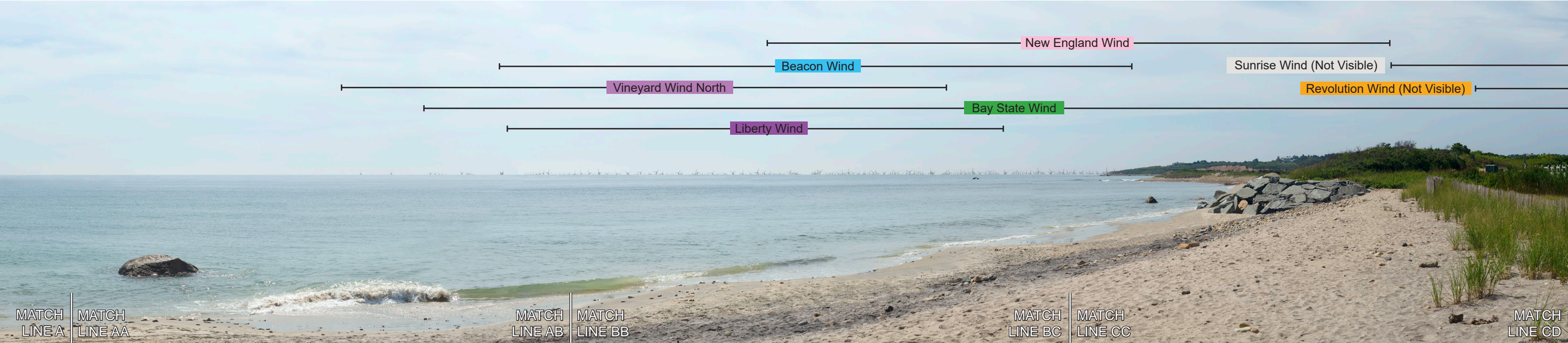
Temperature: 65° F
Humidity: 78%
Wind Dir & Speed: SSW 16mph
Weather Condition: Hazy

CAMERA

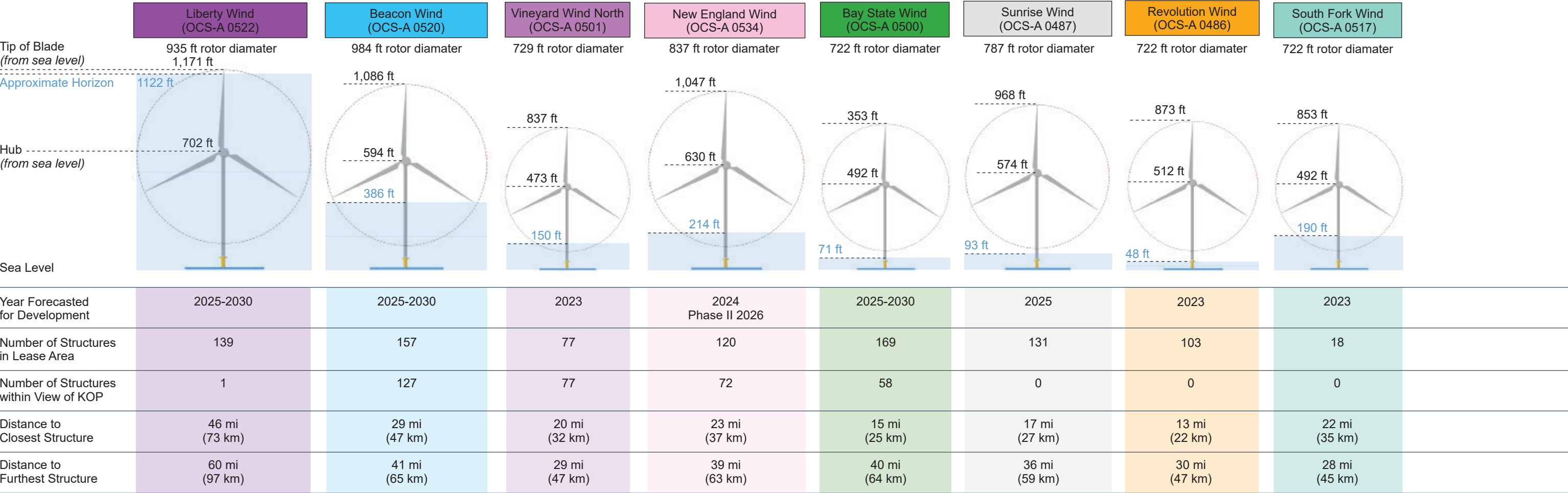
Camera Elevation: 16.5 ft / 5.0 m
Nikon D4
Nikon 50mm
ISO: 100
Fstop: f/7.1
Shutter: 1/1250 sec
Exposure bias: -0.7 step

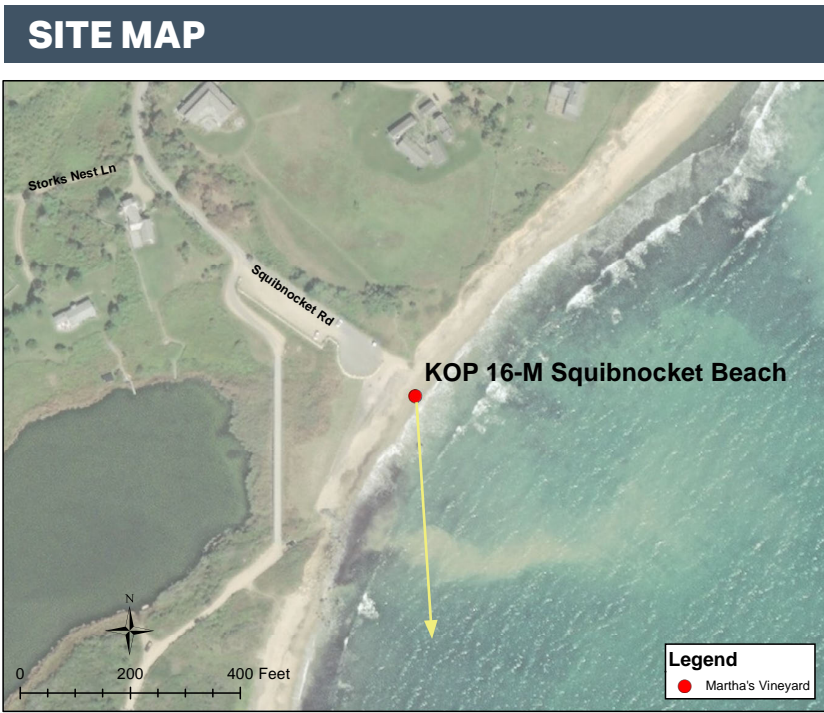
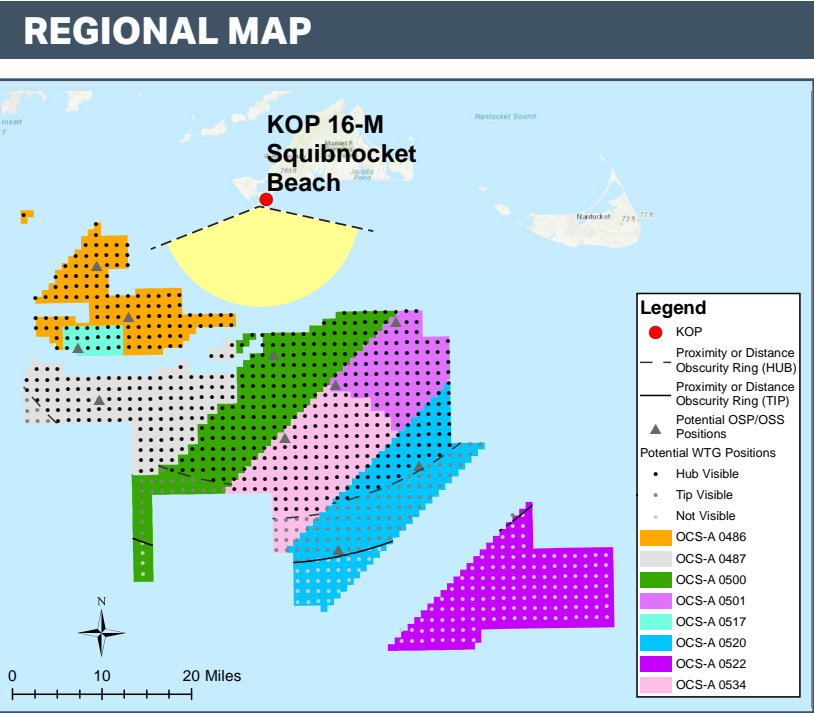
SIMULATED CONDITIONS

2



VISIBILTY OF CLOSEST TURBINES





PROJECT VIEW

Horizontal Field of View: 193°	Furthest Visible WTG: 45 mi / 72 km
Vertical Field of View: 40°	Potential Number of Structures Visible: 335
Nearest WTG: 13 mi / 22 km	Potential Number of Structures Not Visible: 579

PHOTOGRAPH AND SITE

Time of photograph: 2:08PM	Viewing direction: Southeast (176°)
Date of photograph: 11-6-20	Latitude: 41.318873°N
L/SCA: Ocean Beach, Open Ocean	Longitude: 70.764908°W
	Lighting Direction: Sidelit diffused

ENVIRONMENT

Temperature: 65° F
Humidity: 78%
Wind Dir & Speed: SSW 16mph
Weather Condition: Hazy

CAMERA

Camera Elevation: 16.5 ft / 5.0 m
Nikon D4
Nikon 50mm
ISO: 100
Fstop: f/7.1
Shutter: 1/1250 sec
Exposure bias: -0.7 step



MATCH
LINE A

MATCH
LINE AB

MATCH
LINE BB

The page should viewed at 11" x 17" approximately 15" from viewer's eyes .



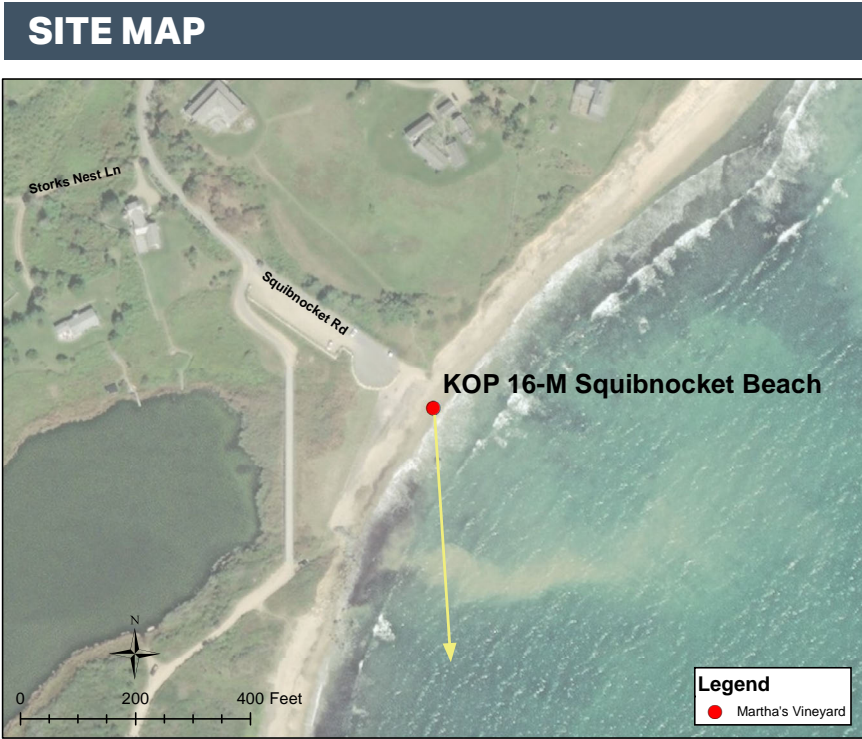
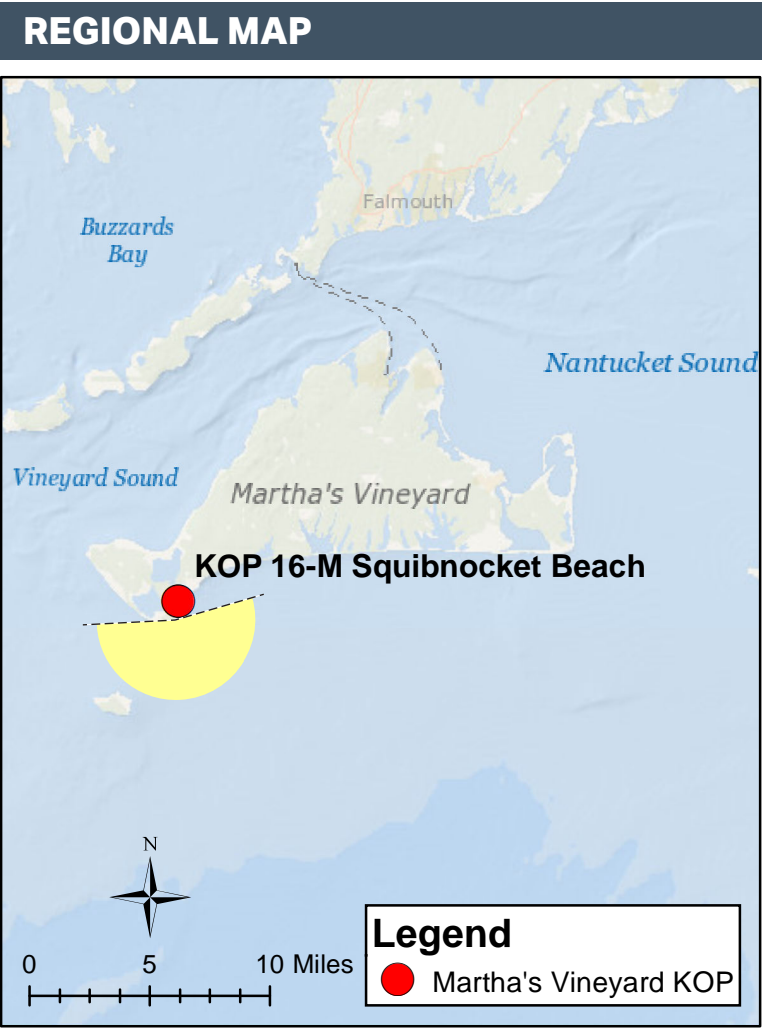
The page should viewed at 11" x 17" approximately 15" from viewer's eyes .



The page should viewed at 11" x 17" approximately 15" from viewer's eyes .

PANORAMIC PHOTOGRAPH - EXISTING CONDITIONS

1



MATCH LINES define visual simulation detail areas

A-B is shown on pages 2-3
AA-AB is shown on page 4
BB-BC is shown on page 5
CC-CD is shown on page 6

PROJECT VIEW

Horizontal Field of View: 193°	Furthest Visible WTG: 45 mi / 72 km
Vertical Field of View: 40°	Potential Number of Structures Visible: 90
Nearest WTG: 37 mi / 60 km	Potential Number of Structures Not Visible: 59

PHOTOGRAPH AND SITE

Time of photograph: 2:08PM	Viewing direction: Southeast (176°)
Date of photograph: 11-6-20	Latitude: 41.318873°N
L/SCA: Ocean Beach, Open Ocean	Longitude: 70.764908°W
	Lighting Direction: Sidelit diffused

ENVIRONMENT

Temperature: 65° F
Humidity: 78%
Wind Dir & Speed: SSW 16mph
Weather Condition: Hazy

CAMERA

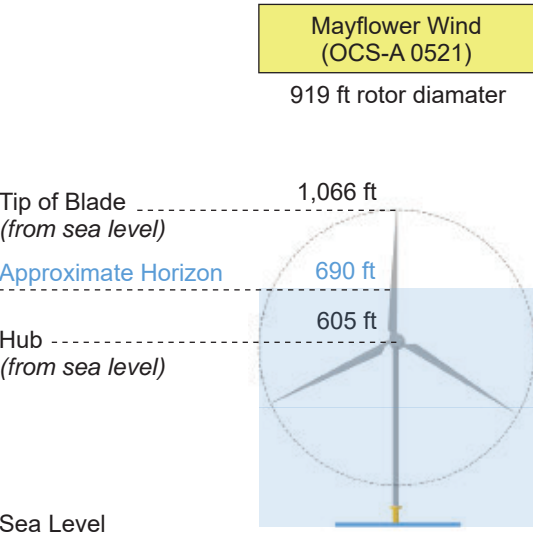
Camera Elevation: 16.5 ft / 5.0 m
Nikon D4
Nikon 50mm
ISO: 100
Fstop: f/7.1
Shutter: 1/1250 sec
Exposure bias: -0.7 step

SIMULATED CONDITIONS

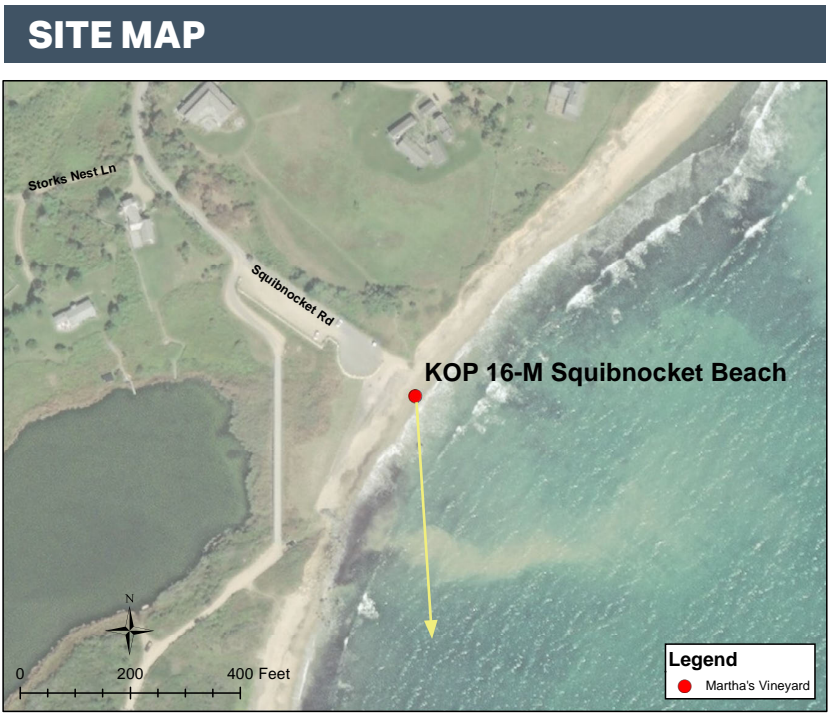
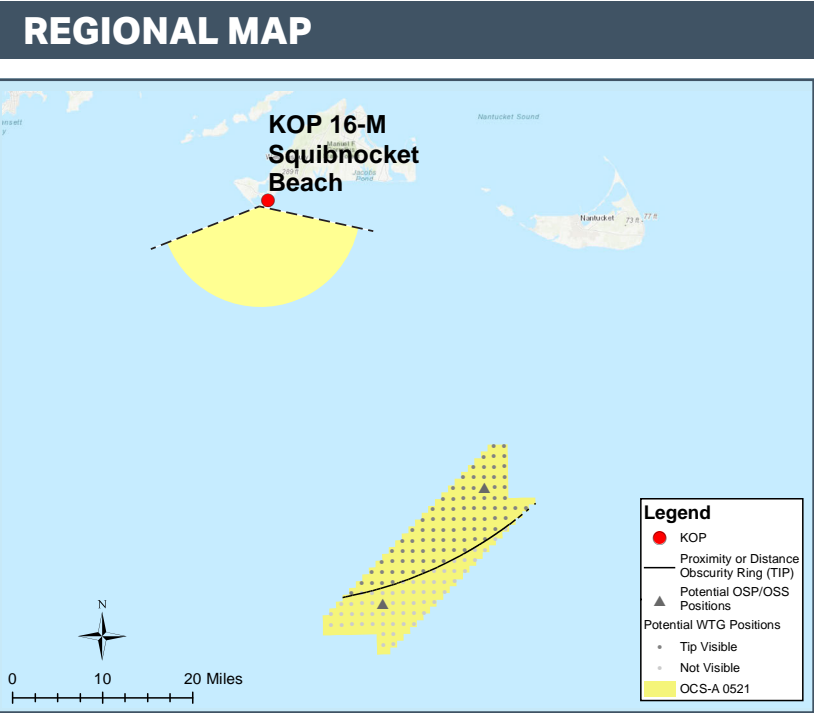
2



VISIBILTY OF CLOSEST TURBINES



Year Forecasted for Development	2025	
Number of Structures in Lease Area	149	
Number of Structures within View of KOP	90	
Distance to Closest Structure	37 mi (60 km)	
Distance to Furthest Structure	45 mi (72 km)	



PROJECT VIEW

Horizontal Field of View: 193°	Furthest Visible WTG: 45 mi / 72 km
Vertical Field of View: 40°	Potential Number of Structures Visible: 90
Nearest WTG: 37 mi / 60 km	Potential Number of Structures Not Visible: 59

PHOTOGRAPH AND SITE

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L/SCA: Ocean Beach, Open Ocean	Longitude: 70.764908°W
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ENVIRONMENT

Temperature: 65° F
Humidity: 78%
Wind Dir & Speed: SSW 16mph
Weather Condition: Hazy

CAMERA

Camera Elevation: 16.5 ft / 5.0 m
Nikon D4
Nikon 50mm
ISO: 100
Fstop: f/7.1
Shutter: 1/1250 sec
Exposure bias: -0.7 step



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The page should viewed at 11" x 17" approximately 15" from viewer's eyes .



MATCH
LINE BC

MATCH
LINE CC

MATCH
LINE CD

MATCH
LINE B