SUPPLEMENTAL REQUIREMENTS

1. NCDOT requires pedestrian bridges to be designed in accordance with the current version of the *AASHTO LRFD Guide Specifications for the Design of Pedestrian Bridges*.

2. The pedestrian bridge analysis should account for the appropriate maintenance vehicle live load and should correspond to the highest wind speed and the most severe wind exposure category for North Carolina (reference the wind zone map on the following page – ASCE 7.10 Figure 26.51A Basic Wind Speeds).

3. The pedestrian bridge analysis should include the longest span and widest clear deck width that is intended to be used in the State. Note the NCDOT requires a 10' minimum clear deck width on pedestrian bridges.

   Maximum Span Length _____ ft.
   Maximum Clear Deck Width _____ ft.
   Maximum Wind Velocity _____ mph.

4. Check the boxes below verifying the submittal includes analysis and design calculations in accordance with the *AASHTO LRFD Guide Specifications for the Design of Pedestrian Bridges* for the:

   ☐ Framing Members (including shape, size, and section properties)
   ☐ Member Connections (bolted and/or welded) with detailed drawings
   ☐ Deck
   ☐ Miscellaneous Attachments (including but not limited to fencing, roofing, safety railing, or signing)

5. NCDOT requires pedestrian bridge suppliers to be approved on the NCDOT Producer/Supplier list before performing work in the State. Please contact Randy Porter in the Manufactured Products Group with the Materials and Tests Unit at 919-329-4000 or srporter@ncdot.gov.

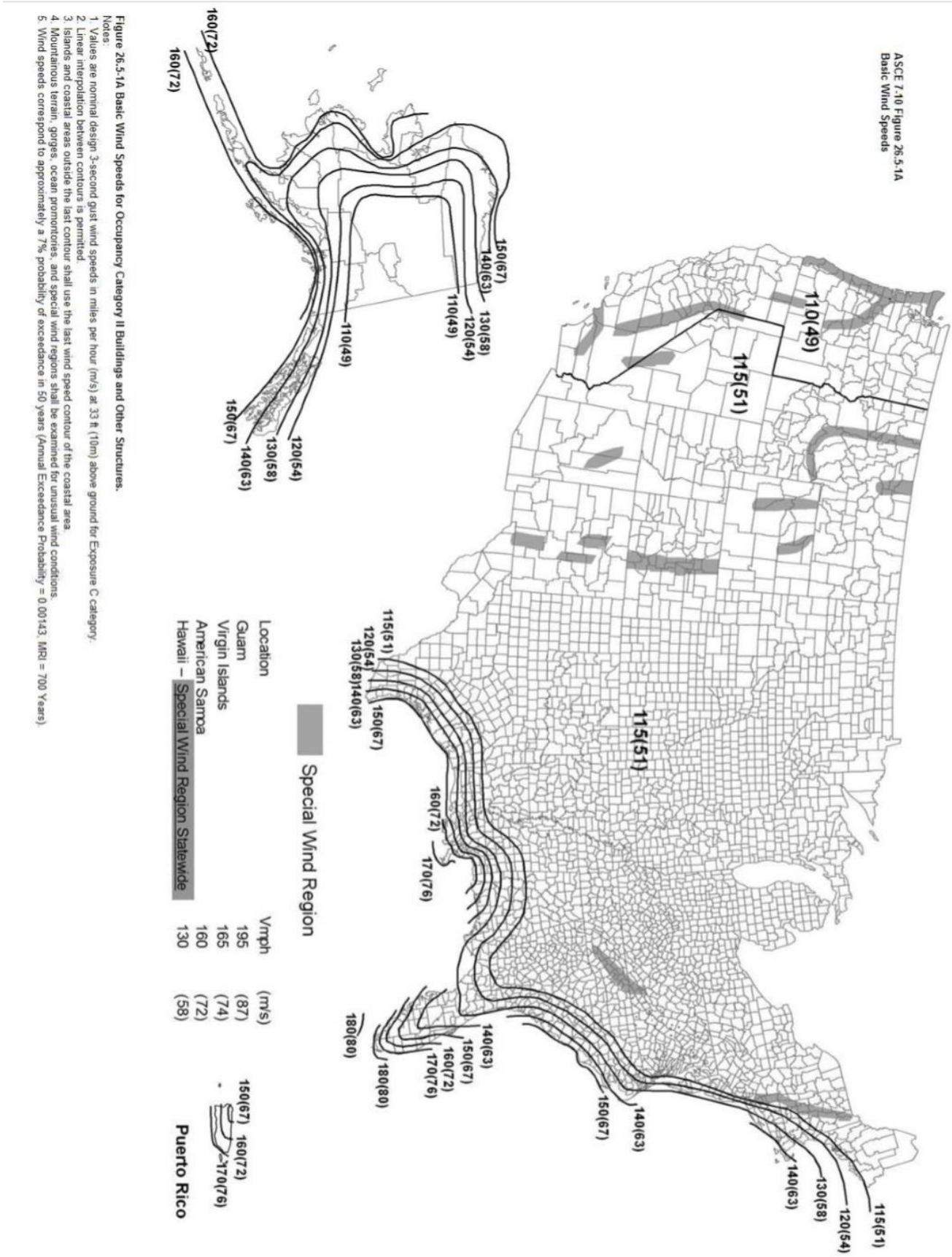

Figure 26.5-1A Basic Wind Speeds for Occupancy Category II Buildings and Other Structures.
Notes:
1. Values are nominal design 3-second gust wind speeds in miles per hour (m/s) at 33 ft (10m) above ground for Exposure C category.
2. Linear interpolation between contours is permitted
3. Islands and coastal areas outside the last contour shall use the last wind speed contour of the coastal area.
4. Mountainous terrain, gorges, ocean promontories, and special wind regions shall be examined for unusual wind conditions.
5. Wind speeds correspond to approximately a 7% probability of exceedance in 50 years (Annual Exceedance Probability = 0.00143, MRI = 700 Years).