## SUPPLEMENTAL REQUIREMENTS

- 1. NCDOT requires sound barrier wall panels, piles, connections, and any miscellaneous items to be designed in accordance with the current edition of the *AASHTO LRFD Bridge Design Specifications* (Coastal condition). The analysis should correspond to North Carolina's highest wind velocity condition for the longest panel width and wall height that is intended to be used in the State.
- 2. Check the boxes below verifying the submittal includes analysis and design calculations in accordance with the AASHTO LRFD Specifications [signed and sealed by a North Carolina PE] for the:
  - □ Sound barrier wall panels
  - □ Sound barrier wall piles/columns
  - $\Box$  Connections
  - ☐ Miscellaneous items
- NCDOT requires sound walls to utilize foundation connection details similar to those shown on NCDOT's Sound Barrier Wall Standard drawings, which can be found here: <u>https://connect.ncdot.gov/resources/Structures/Structure%20Specs/sbw1\_18.pdf</u> <u>https://connect.ncdot.gov/resources/Structures/Structure%20Specs/sbw4\_18.pdf</u>

□ Submittal includes details showing the pile/column connection to the foundation (check to verify).

- 4. Submit the testing from ASTM E 90 that shows an STC rating equal to or greater than 30.
- 5. Provide a Letter of Compliance stating at a minimum: the company name, product name, statement saying it meets the applicable specification(s) and the manufacturer's currently published physical properties and performance characteristics.
  - a. The submitted product must meet all noise wall standards in Traffic Noise Manual and Appendices [Revision Date: January 27, 2017] <u>https://connect.ncdot.gov/resources/Environmental/PDEA%20Procedures%20Manual%20Docum</u> <u>ents/--%20Appendix%20B%20-%2023%20CFR%20772.pdf</u>