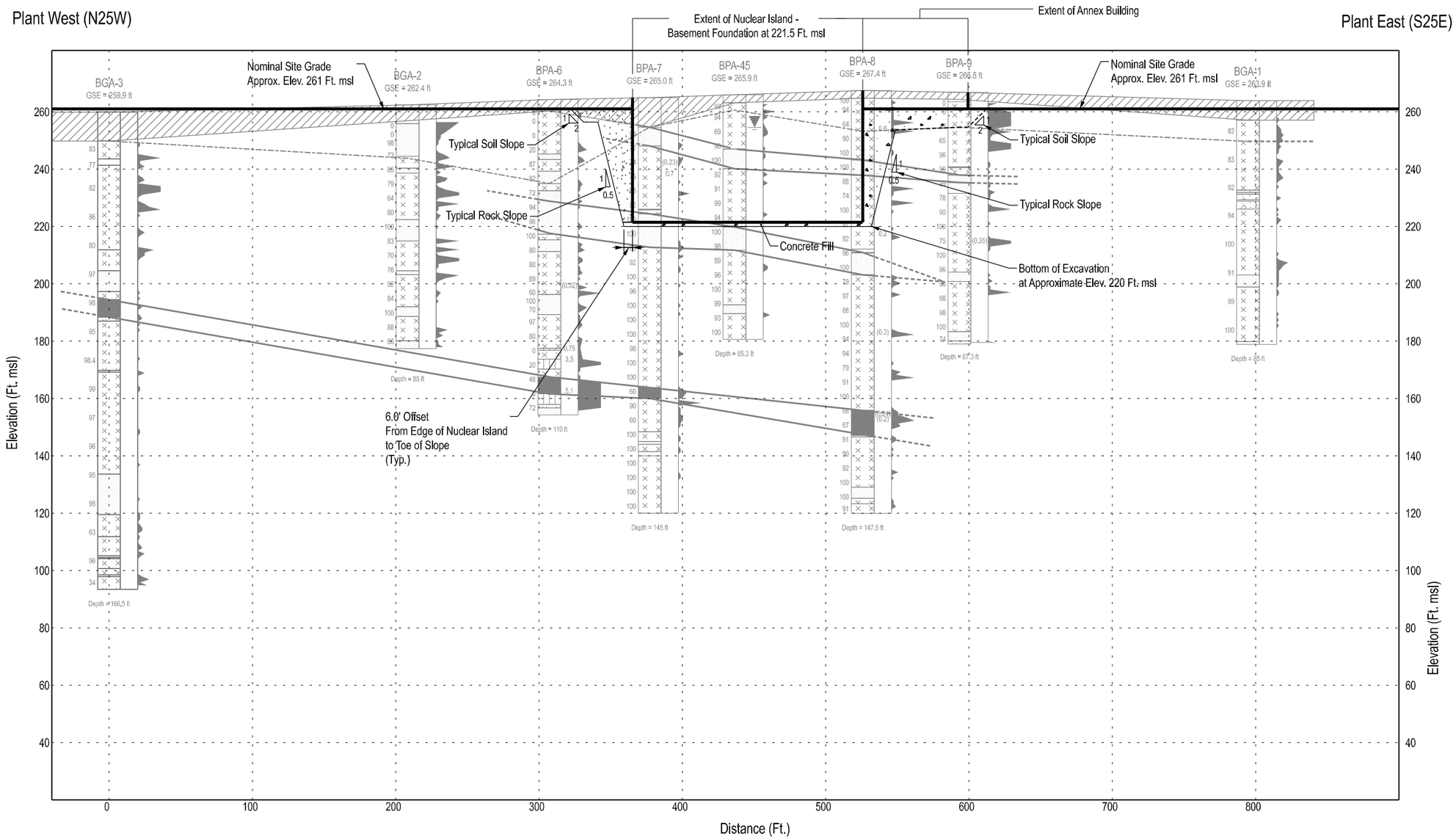

LEGEND

- Extent of Excavation For Safety-Related Structures
- Conceptual Excavation Extent For Other Related Structures
- Concrete Fill
- Compacted Granular Compacted Cohesive, or Concrete Fill
- Ground Water Level

NOTES:

1. Clay seams or fracture zones with total clay thickness >0.1 ft. thick are shown at their approximate observed elevation.
2. See Table 2.5.4-201 for depths and descriptions of soil and top of sound rock.
3. See Figure 2.5.4-202 for Cross Section locations.
4. Depth of excavation under non safety related structures shown as conceptual and subject to change during detailed design.
5. Excavation extents for nuclear island shown are typical and subject to change based on subsurface conditions encountered during construction. Soil excavation sideslope may range from 1.5H:1V to 2H:1V, and rock excavation sideslope may range from 0.25H:1V to 0.5H:1V.
6. See Figure 2.5.4-204B for lithology symbols and correlation lines between boreholes.

DATA SOURCE:

1. CH2M HILL Borehole (Appendix 2BB)
2. Smith & Smith Surveyors, 2007

Progress Energy Carolinas
Shearon Harris Nuclear Power Plant Units 2 and 3
Part 2, Final Safety Analysis Report
New Hill, North Carolina

Structure Foundation and Excavation Extents - HAR 2 Plant West to East

FIGURE 2.5.4-211B

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