CONSTRUCTION (CONT.)

9. The Contractor is responsible for gradually deflecting upper layer(s) of soil reinforcement downward (15° maximum from horizontal) to avoid cutting soil reinforcement and conflicts with paving and subgrade preparation. The Contractor’s attention is directed especially to situations where roadway super-elevation and/or soil volume are anticipated.

QUALIFIED PRODUCTS LIST

1. Manufacturers seeking approval of proprietary retaining wall systems for inclusion on the Qualified Products List as pre-approved wall system suppliers must submit a QPL Product Evaluation Application along with design documentation, vendor drawings, wall system construction manual and other information as required in the retaining wall system QPL Acceptance Criteria showing the proprietary wall system is designed to meet all specified requirements. Project specific Shop Drawings are required for QPL approved wall systems (see Shop Drawing Requirements below).

SHOP DRAWING REQUIREMENTS

The successful bidder must submit the shop drawing of the wall for review as Shop Drawings. Details and Design Criteria shown on the Shop Drawings must be reviewed and approved QPL. In addition, the Shop Drawings include detailed design computations and all details, dimensions and quantities necessary to construct the wall. The design and fully detailed plans must be prepared as required by FDOT Specification Section 458. The shop drawings must include detailed design computations and all details, dimensions and quantities necessary to construct the wall. The design and fully detailed plans must be prepared as required by FDOT Specification Section 458 and must include, but are not limited to, presentation of required information as follows:

1. Provide an elevation view of the wall indicating:
   a. Elevations/Stations at the top and bottom of wall, for Begin/End Retaining Wall, offsets in vertical alignment, all wall stations and every 25 foot station increment.
   b. Size and designation of soil reinforcement in elevation view.
   c. Location of the proposed backfill line.

2. Provide a plan view detailing the horizontal alignment and offsets from the horizontal control line(s) at the exterior face of the wall.

3. Show plan and elevation lines, drainage structures, drainage pipes, etc. that affect the wall(s). Locate the plan view within the reinforced earth section, as shown on Foundation Layout Drawings.

4. Provide other notes and design parameters on the Shop Drawings.

5. Include design soil characteristics and all other pertinent notes required for construction of the walls. Provide the footing bearing resistance and factored bearing pressure for each wall height increment.

6. Show the limits of the reinforced soil volume.

7. Show complete details for construction of wall and wall construction.

8. Provide a detailed plan for excavation and/or soil volume.

9. Provide fully detailed design calculations for each wall height increment detailed in the Shop Drawings. Submit Shop Drawings and design calculations signed and sealed by a Professional Engineer registered in the State of Florida.