Improved Army Combat Boot Prototype Salient Characteristics

Prototype A

- Upper - Army Jungle Combat Boot (Jungle Combat Boot GL-PD-16-05, 03 October 2016; Attachment 0002) style upper, with the following modifications:
    - Flex/Comfort notch in eyestay between eyelets and speed lace loops
    - Non-absorbent knit mesh vamp liner and inside heel counter pocket
    - Knit mesh tongue gusset
    - Nylon coated aluminum speed lace loops and eyelets
    - Three lacing eyelets and four speed lace loops per side
    - Softened full-grain leather
    - Less rigid/more flexible counter and box toe
- Soling
    - Vibram "LiteBase" style outsole, or equal, with lug depth of no more than 5.5-mm and based thickness of no more than 1.5-mm
    - MegaGrip rubber compound
    - Polyether polyurethane midsole of density no greater than 0.40-gm/cm^3, with a height of no more than 35-mm from outsole
    - Construction may be cement or direct attach

Prototype B

- Upper - Hot Weather Mountain Combat Boot (Hot Weather Mountain Combat Boot GL-PD-14-06; Attachment 0003) style upper, with the following modifications:
    - Perforated vent holes in the medial and lateral sides of the leather ankle support straps as well as the midfoot area
    - No rubber rands at the toe or heel
    - Aluminum speed lace loops and eyelets
    - Split leather or thinner full-grain flesh-out leather, Coyote 498 in color
    - Coyote 498 color 1000D Nylon exterior fabric
    - Light padding on tongue, vamp lining, and inside counter pocket
    - insole board
    - Less stiff, non-padded insole board or Strobel
    - Thicker removable cushion insert/footbed
- Soling
    - Vibram Crossbow outsole, with a polyurethane cushion heel plug
    - MegaGrip compound Coyote 498 in color
    - Sidewall stitch between outsole and upper

Prototype C

- Upper:
    - Coyote 498 throughout exterior
    - Split or low weight full-grain flesh-out leather in vamp, outside heel counter, and eyestays
    - Upper fabrics not limited to nylon, may include knit mesh
    - Strobel lasted
    - Unlined, other than vamp and heel counter pocket
    - No padding
    - Fiberglass, nylon, or steel shank
    - Perforated leather vent holes or breathable mesh no more than 1.5-inch above soling
    - Flex/Comfort notch in eyestays
    - Heel counter more flexible than current Hot Weather Army Combat Boot (MIL-DTL-32237C)
- Soling
    - Cement construction; may include stitch at heel and/or toe
    - Midsoles of no more than 0.35-gm/cm^3 density; may be polyether poly urethane, polyester polyurethane blend, or ethylene-vinyl acetate
    - Rubber or polyether polyurethane outsole
- Total boot weight should not exceed 1.35-lbs
- Total boot height should be no less than 8-inches measured externally from the ground, including soling

Prototype D

- Upper:
    - Coyote 498 throughout exterior
    - Overlasted upper, i.e. leather upper wrapped around a polyurethane cushion (not visible from the exterior of the boot) adhered to an insole board below
    - Heel counter and box toe should extend beyond past the cushion midsole to the insole board
    - Fully lined and padded upper
    - Shank or rigid insole board to provide stiffness in the midfoot
    - Split leather or softened flesh-out full-grain leather
    - Perforated leather vent holes or breathable mesh no more than 1.5-inch above soling
- Soling:
    - Rubber outsole cemented directly to the leather upper and insole board; may include stitching of the outsole to the upper at the toe and heel
- Total boot weight should not exceed 1.80-lbs
- Total boot height should be no less than 8-inches measured externally from the ground, including soling