**DESIGN SECTION**

1. **Spread Footing Section**
   - Place concrete to against undisturbed material, except as permitted by the Engineer.
   - Appropriate details at top of wall are shown elsewhere. See **stem haunch detail** when used with barrier.
   - Place waterstop as shown when required.
   - Finished Grade as shown when required.
   - Backfill sufficiently to prevent ponding, to be done after removal of wall forms and before backfilling behind walls.

2. **Design Notes**
   - Spread footing section
   - Place concrete to against undisturbed material, except as permitted by the Engineer.
   - Appropriate details at top of wall are shown elsewhere. See **stem haunch detail** when used with barrier.
   - Place waterstop as shown when required.
   - Backfill sufficiently to prevent ponding, to be done after removal of wall forms and before backfilling behind walls.

3. **Concrete**
   - FG: 3-face reinforced concrete
   - ø: 34^ø
   - CS: 156#pcf
   - CS*: 156#pcf
   - FY = 60,000 psi
   - F'c = 3,600 psi
   - Ø = 34^ø
   - kF = 0.2
   - kL = 0.0
   - H = 6'
   - H = 10'
   - H = 12'

4. **Load Combinations and Limit States**
   - Service:
     - DC: 1.00DC+1.00EV+1.00EH+1.00CT+1.00EQD+1.00EQE
   - Extreme I:
     - Str = service limit state
     - Ext I = extreme event limit state I
     - Ext II = extreme event limit state II
   - Strength:
     - DC: 1.00DC+1.00EV+1.00EH+1.00LS+1.00EQD+1.00EQE
   - **Design Notes**
   - **Design Notes**
   - 1. For details not shown and drainage notes see Figure 3-5.
   - 2. For wall stem joint details see Figure 3-5.
   - 3. ø: 5 bars
     - ø ≤ 6", no splices are allowed within 1'-0" above the top of footing.
     - ø > 6", no splices are allowed within H/4 above the top of footing.
   - 4. Provide 4ø ø: for bars in addition to tabulated ø: bars over a distance of 6'-0" measured from all expansion joints, begin wall and end wall location.