**EARTH REINFORCEMENTS**

Walls may be constructed without earth reinforcements, if all stability criteria are met with the blocks alone. If all stability criteria are not satisfied, earth reinforcements shall be provided.

- The long-term design strength (LTS) of earth reinforcement shall be calculated in accordance with AASHTO Specifications.
- The earth reinforcement coefficient values used shall be determined in accordance with appropriate design guidelines.
- The factor of safety in pullout shall be greater than or equal to 1.5.

**DESIGN PARAMETERS**

Structure shall be based on the following design parameters:

- Concrete density unit weight 150 psf
- Concrete strength for design 8400 psi
- Concrete unit weight 150 psf

**GENERAL NOTES**

- The typical elevation shown is for evaluating geogrid pullout.
- The long-term design strength (LTDS) of earth reinforcement shall be calculated in accordance with current AASHTO Standard and Interim Specifications.
- The factor of safety in pullout shall be greater than or equal to 1.5.
- The factor of safety in overturning shall be greater than or equal to 1.5.

**STABILITY CRITERIA**

The factor of safety in sliding along the base of the structure shall be greater than or equal to 1.5.

The factor of safety in overturning shall be greater than or equal to 1.5.

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