

GRAVITY RETAINING WALLS

(8-18-09)

Revise the *Standard Specifications* as follows:

Page 4-80, Article 453-1 **DESCRIPTION**, replace the first sentence with the following:

Construct gravity retaining walls of cast-in-place concrete and a brick veneer, if required, based on actual elevations and dimensions in accordance with the plans.

Page 4-81, Delete Article 453-3 **CONSTRUCTION REQUIREMENTS** and replace it with the following:

Excavate as necessary for gravity retaining walls. Embed bottom of footings a minimum of 2 ft (0.6 m) below where finished grade intersects the front face of gravity retaining walls. Notify the Engineer when foundation excavation is complete. Do not place concrete until obtaining approval of the excavation depth and foundation material. Where foundation material is found to be unacceptable, undercut the foundation material and backfill with an approved select material as directed by the Engineer.

Construct gravity retaining walls in accordance with Section 420. Use Class A Concrete and construct joints at a maximum spacing of 30 ft unless required otherwise on the plans. Half-inch thick expansion joints in accordance with Article 420-10 are required every third joint. Half-inch deep grooved contraction joints in accordance with Subarticle 825-10(B) are required for the remaining joints.

Construct 3" diameter weep holes on 10 ft centers along gravity retaining walls. Exit weep holes just above finished grade and slope holes at 1" per foot through walls so water drains out of the front of walls. Extend top of walls 6" above where finished grade intersects the back of gravity retaining walls unless required otherwise on the plans.

Do not remove forms until concrete achieves a minimum compressive strength of 2400 psi. Unless required otherwise on the plans, provide a Class 2 Surface Finish for exposed faces of gravity retaining walls in accordance with Article 420-17. Seal joints above and behind gravity retaining walls between walls and ditches with joint sealer.

If a brick veneer is required as shown on the plans, construct brick masonry in accordance with Section 830. Anchor brick veneers with approved brick to concrete type anchors according to the manufacturer's specifications with a minimum vertical spacing of 16" and a minimum horizontal spacing of 32" with each row staggered 16" from the row of anchors above and below.