

DIVISION 250
SLOPE REINFORCEMENT AND RETAINING WALLS

SECTION 258
REINFORCED CONCRETE RETAINING WALLS

258.01 **DESCRIPTION** – Revised the text of this subsection to read as follows:

This work consists of constructing reinforced concrete retaining walls where indicated and as detailed on the plans.

258.02 **MATERIAL** - Conform to the following Sections and Subsections:

Concrete	552
Forms and falsework	562
Joint fillers and sealants	712.01
Reinforcing steel	709.01
Structural backfill	704.04
Tie bars, dowel bars, and hook bolts	709.01

CONSTRUCTION REQUIREMENTS

258.03 **GENERAL** – Delete the text of this subsection and substitute the following:

- a. Verify site conditions on which the retaining wall is to be constructed.
- b. Perform survey work in accordance to Section 152, and verify the limits of the wall construction.
- c. Submit required shop drawings, material product data, concrete mix design, bar cut lists, and all pertinent documents for Contracting Officer's approval.
- d. Perform clearing and grubbing work in accordance with Section 201.
- e. Obtain required utility clearances and remove any obstruction in accordance with Section 203.
- f. Perform retaining wall excavation work in accordance with Section 209. Excavation work shall be unclassified regardless of the nature of material

encountered. Excavation shall be made to the required width and depth as indicated on the plans that will permit proper installation and bracing of forms.

- g. The retaining wall's foundation sub-grade shall be shaped, scarified, and compacted to an even surface. Refer to geotechnical report for additional recommendations.

258.04

REINFORCING STEEL – Add the following to this subsection:

- a. Submit Mill Certificates for Contracting Officer's approval for all reinforcement used in this work.
- b. Submit for approval, shop drawings indicating bar sizes, spacing, and concrete clear cover. Submit bar cutting lists, indicate locations of splices. Location of splices to be approved by the Contracting Officer. Indicate locations of intended construction joints.
- c. With the approval from the Contracting Officer, ship, deliver, store, and protect the materials from exposure to wet conditions.
- d. Place, fasten, and secure reinforcement and all other required embedded items in accordance with the practices recommended in the ACI and with Subsection 554.

258.05

STRUCTURAL CONCRETE – Delete the text of this subsection and substitute the following:

- a. Submit concrete mix design for Contracting Officer's approval.
- b. No concrete is to be placed until the Contracting Officer has approved that the rebars are placed in accordance with the plans and specification and that the prepared work is ready to receive concrete.
- c. Construction joints and control joints shall be as indicated on the plans or as approved by the Contracting Officer in the shop drawings.
- d. Store, handle, batch, and mix material and deliver concrete according to Subsections 552.04 through 552.08.
- e. Provide quality control according to Section 153 and Subsection 552.09.
- f. Construct wall according to Subsections 552.10 through 552.16.

258.06 **BACKFILLING** – Add the following to this subsection:

- a. Do not commence backfilling work until approved by the Contracting Officer to proceed with work.
- b. Use an approved lightweight mechanical or vibratory compactor within 3 feet of the wall.
- c. Backfill material shall conform to Section 209. Backfill in accordance with subsection 209.10 and compact each layer in accordance with subsection 209.11.

258.07 **ACCEPTANCE** - Reinforced concrete retaining wall material, construction, and services will be evaluated as follows:

Survey work will be evaluated under Section 152.

Forms and falsework drawings will be evaluated under Section 562.

Structure excavation and backfill will be evaluated under Section 209.

Concrete will be evaluated under Section 552.

Reinforcing steel will be evaluated under Section 554.

Material for joint fillers, sealants, tie bars, dowel bars, and hook bolts will be evaluated under Subsections 106.02 and 106.03.

258.08 **MEASUREMENT** – Delete the text of this subsection and substitute the following:

Measure reinforced concrete retaining, including the retaining wall footing, by the cubic yard, including excavation work, foundation bedding work, and backfill work.

258.09 **PAYMENT** - Delete the text of this subsection and substitute the following:

The accepted quantities will be paid at the contract price per unit of measurement for the pay items listed in the bid schedule. Payment will be full compensation for the work prescribed in this Section.

Payment will be made under:

Pay Item No.	Pay Item	Pay Unit
25801	Reinforced Concrete Retaining Wall, complete -in-place, includes base, sub-base preparation,	Cubic Yard

and embankment fill.

END OF SECTION 258