

**521 CONCRETE BARRIERS, TRAFFIC RAILING BARRIERS AND PARAPETS.  
(REV 7-24-08) (FA 8-12-08) (1-09)**

ARTICLE 521-3 (Page 587) is deleted and the following substituted:

**521-3 Use of Precast Temporary Barrier Wall.**

**521-3.1 General:** Meet the requirements of 102-9.5.2.

**521-3.2 Precast Temporary Barrier Wall Meeting the Requirements of the Design Standards, Index No. 415:** Use Precast Temporary Barrier Wall when certification is provided to the Engineer that the Precast Temporary Barrier Wall was constructed in accordance with and meets the requirements of the Design Standards, Index No. 415, and meets the approval of the Engineer.

**521-3.3 Procurement of Proprietary Precast Temporary Barrier Wall:** Obtain and use Precast Temporary Barrier Wall listed on the Departments Qualified Products List (QPL) from a manufacturing plant that is currently on the list of the Producers of Incidental Precast/Prestressed Concrete Products. Producers seeking inclusion on the list shall meet the requirements of 105-3.

Ensure each Precast Temporary Barrier Wall Section has permanent clear marking, showing the manufacture date, serial number, and manufacturer's name or symbol and the Department approved drawing number that it meets. The markings may be located on a plate, plaque, or cast in the panel.

**521-3.4 Procurement of Precast Temporary Barrier Wall Meeting the Requirements of Design Standards, Index No. 414:** Obtain and use Precast Temporary Barrier Wall from a manufacturing plant that is currently on the list of the Producers of Incidental Precast/Prestressed Concrete Products. Producers seeking inclusion on the list shall meet the requirements of 105-3.

**521-3.5 Reflector Elements:** Mount reflectors onto the barriers in accordance with the details shown in the plans and the Design Standards.

ARTICLE 521-7 (Page 589) is deleted and the following substituted:

**521-7 Repairs and Rejection.**

For permanent precast concrete barrier wall that has not been installed, evaluate cracks, spalls and other deficiencies in accordance with 450-12. Repair deficiencies in accordance with 450-13 or the plant's approved repair methods that are included as part of the QCP. Ensure that the original performance and durability of the repaired barrier wall is maintained. Use materials for concrete repair that will meet or exceed the strength requirement for the class of concrete used. Materials meeting the requirements of Section 930 may be substituted for non-shrink grout when required by 450-13. Concrete barrier wall is subject to rejection if it fails to conform to any of the Specification requirements after repair. The disposition of concrete cracks in barrier wall after installation shall be in accordance with 400-21.

**521-8 Method of Measurement.**

The quantity to be paid for under this Section will be the plan quantity, in feet, completed and accepted. The quantity will be measured along the top of the barrier wall from the begin to

end station, including transitional and end sections, with no deduction for expansion joints or open joints. Barrier wall on bridge structures and approach slabs to be removed shall be included in the cost of Removal of Existing Structures. Barrier wall to be removed along roadways are included in the cost of clearing and grubbing, or if a pay item is included, in the cost of Removal of Concrete Barrier Wall.

ARTICLE 521-8 (Page 589) is deleted and the following substituted:

**521-9 Basis of Payment.**

Price and payment will be full compensation for all work specified in this Section, including all reinforcing steel, conduits, materials and incidentals necessary to complete the work.

Payment will be made under:

- Item No. 521- 1- Concrete Barrier Wall - per foot.
- Item No. 521- 5- Concrete Traffic Railing Barrier (Bridge) – per foot.
- Item No. 521- 6- Concrete Parapet (Bridge) – per foot.
- Item No. 521- 7- Retaining Wall System – per foot.
- Item No. 521- 8- Retaining Wall System, Mounted with Sleeper Slab – per foot.
- Item No. 521- 72- Concrete Barrier Wall – per foot.
- Item No. 521- 73- Removal – per foot.