

ITEM 15606.3801 M - FREE STANDING PRECAST CONCRETE MEDIAN BARRIER

DESCRIPTION The Contractor shall furnish and install free standing precast concrete median barrier as indicated on the plans or directed by the Engineer.

MATERIALS Free standing precast concrete median barrier shall conform to the requirements of Subsection 704-05 of the Standard Specifications with the following additional material requirements:

The connection key and any steel plates required shall be fabricated from steel meeting the requirements of either ASTM A 36 Structural Steel, or ASTM A 588 High-Strength Low-Alloy Structural Steel. The connection key shall be galvanized in accordance with the requirements of Subsection 719-01 Type I.

The 100 mm x 100 mm x 13 mm tube shall be fabricated from steel meeting the requirements of ASTM A 500 Cold-Formed Welded and Seamless Carbon Steel Structural Tubing, Grade B or C. The 100 mm x 100 mm x 13 mm tube shall be galvanized in accordance with the requirements of Subsection 719-01 Type I. The galvanized tube shall be chromate treated. If the chromate treatment is performed immediately after galvanizing, it may be accomplished by means of quenching the tube in a solution containing at least 0.2% by weight of sodium dichromate in water (88 ml per 38 L of water), or by quench chromating in a minimum 0.2% chromic acid solution. The quenching solution shall be at least 32°C. The galvanized tube shall be immersed in the solution for at least 20 seconds. If the galvanized tubes have cooled to ambient temperature, the chromate treatment shall be the same as specified above except that 0.5 to 1.0% concentration of sulfuric acid shall be added to the chromate solution as an activator.

The barrier units shall conform to the details, dimensions, tolerances shown on the current Standard Sheet titled, "Temporary Concrete Barrier."

CONSTRUCTION DETAILS The Contractor shall furnish and erect free standing precast concrete median barrier where and as indicated on the plans or as directed by the Engineer.

Each run or bay of free standing precast concrete median barrier units shall be fastened together to form a continuous chain. After placement each successive unit shall be moved longitudinally to remove the slack in the joint between units. The units on the end of each run or bay and any other unit shown on the plans or directed by the Engineer shall be anchored as shown on the current Standard Sheet titled "Temporary Concrete Barrier." After the run or bay is completed the alignment shall be checked and approved by the Engineer, then each joint shall be grouted as shown on the current Standard Sheet entitled "Temporary Concrete Barrier."

METHOD OF MEASUREMENT Free standing precast concrete median barrier shall be measured by the number of linear meters placed in accordance with this specification as directed by the Engineer. The measurement shall be made along the centerline of the uppermost surface of completed barrier.

BASIS OF PAYMENT The unit price per linear meter shall include all material, equipment and labor necessary to erect the required barrier.