

ITEM 11607.980101 M - TEMPORARY CHAIN-LINK FENCE

DESCRIPTION:

This work shall consist of furnishing, erecting, moving and removing chain link fencing and metal gates of the size and type shown on top of the temporary concrete barriers, and in sidewalk and roadway areas at the locations as shown on the plans and where directed by the Engineer.

Fence Types: The types of the fences to be used may be one of the following:

- Galvanized Steel Chain-Link Fencing on Steel Frame
- Vinyl Coated Steel Chain-Link Fencing on Steel Frame
- Vinyl Coated Steel Chain-Link Fencing on Plastic Coated Frame Fence Gates

MATERIALS :

Materials shall conform to the requirements specified in the following subsections of Section 700-Materials:

Galvanized Steel Fence Fabric	710-02
Vinyl Coated Steel Fence Fabric	710-03
Steel and Iron Posts, Rails, Braces and Fittings for Chain- Link Fence	710-10
Plastic Coated Posts, Rails, Braces and Fittings for Chain-Link Fence	710-12

Fence Gates:

Gate frames shall be composed of tubing braced with rods , bars or angles and filled with wire mesh, meeting the requirements of the Specifications for the type of fencing with which the gate is to be used, all as detailed on the Plans or Standard Sheets.

Portland Cement Concrete for Basis:

Portland cement concrete used for basis shall be Class A or C, conforming to the requirements of Section 501, Portland Concrete-General, except that requirements for automated batching shall not apply.

CONSTRUCTION DETAILS:

General:

The Contractor shall install fence posts on the concrete barrier in 38mm diameter, 305 mm deep drilled or formed holes near each end of each section of barrier. In addition, if the concrete

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barrier is furnished in lengths exceeding 3.0 m, it will be necessary for the Contractor to provide an additional hole at the center of the section to permit the installation of an intermediate post.

Line posts and corner and end posts on grade shall be installed in accordance with Standard Sheet 607-10 and 607-11 and gate posts shall be installed in accordance with Standard Sheet 607-12

Heights of the posts and fencing shall conform to the dimensions shown on the Plans.

The Contractor shall perform such clearing and grubbing as may be necessary to construct the fence to the required grade and alignment.

At locations where breaks in a run of fencing are required, or at interactions with existing fences, appropriate adjustments in post spacing shall be made to conform to the requirement for the type of closure indicated.

When the Plans require that the posts, braces, or anchors be embedded in concrete, the Contractor shall install temporary guys or braces, as may be required to hold the posts in proper position until such time as the concrete has set sufficiently to hold the posts. Unless otherwise permitted, no materials shall be installed on posts or strain placed on guys or bracing set in concrete until seven days elapsed from time of placing the concrete.

All posts shall be set vertically and to the required grade and alignment. Cutting of the tops of the posts will be allowed only with the approval of the Engineer and under conditions specified by the Engineer .

Fence fabric of the size and type required shall be firmly attached to the posts and braces in the manner indicated. All fence fabric shall be stretched taut and installed to the required elevations.

At each location where an electric transmission, distribution or secondary line crosses any of the types of fences covered by these Specifications, the Contractor shall furnish and install a ground conforming to the requirements of Subsection 9 of the National Electric Safety Code.

Fence shall generally follow the contour of the ground, with the bottom of fence fabric no less than 50 mm nor more than 150 mm from the ground surface. Grading shall be performed where necessary to provide a neat appearance. Line posts shall be spaced equidistant in the fence line at the spacing shown on the Plans, Standard Sheets or as directed by the Engineer. End, corner, and intermediate posts shall be placed at the locations indicated on the Plans, Standard Sheets or where directed by the Engineer, and shall be braced as shown on the Plans and Standard Sheets. When chain-link fence is on a long curve, intermediate posts shall be evenly spaced so that the strain of the fence will not bend the line posts.

All end, corner, and intermediate posts shall be set plumb in concrete bases of the depth and

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diameter shown on the Plans or Standard Sheets. The Contractor shall have the option of setting the line posts in concrete bases or using methods of driving and anchoring specified by the fence manufacturer and approved by the Engineer.

The concrete bases shall be rough cast in the ground around the posts. The top surface shall be domed to shed water and provide a neat appearance when completed. Extensions of up to 45 minutes for the allowed time for pouring the concrete will be permitted.

Chain Link Fencing With Top Rail:

Posts shall be set so they are equidistant with a maximum of 3.0 m centers.

All top rails shall pass through the base of the post caps and shall form a continuous brace from end to end of each stretch of fence. Top rail lengths shall be joined with sleeve couplings with expansion sleeves provided at 30 m intervals. Top rails shall be securely fastened to end posts by means of approved rail end connectors. Horizontal braces shall be provided at all intermediate posts, midway between the top rail and ground as shown on the Plans or Standard Sheets.

Diagonal truss rods shall be installed with the horizontal braces as indicated in the Plans or Standard Sheets.

Fence fabric shall be installed approximately 50 mm above the ground level and securely fastened along the bottom and to all braces, top rails, line and pull posts, at the intervals indicated on the Standard Sheets by approved methods. The fabric shall be secured to all end, corner, and gate posts with stretcher bars fastened to the posts, with stretcher bands spaced at a maximum of 355 mm and in a manner permitting adjustment of the fabric tension.

If the Contractor elects the option of using pieces, roll-formed sections, the fence fabric shall be integrally woven into the fabric loops on the end, corner, pull and gate posts. The fabric shall be attached to the end, corner and line posts as shown on the Standard Sheets.

Chain Link Fencing With Top Tension Wire:

The construction details specified in Chain-Link Fencing with top Rail shall apply with the following modifications:

- A. Top tension wire shall be installed as shown on the Plans Standard Sheets, or as directed, by the Engineer.
- B. All posts shall be spaced equidistant in the fence line on a maximum of 2.4 m centers, except that a 3.0 m spacing will be permitted on concrete barriers.

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- C. Additional pull posts shall be placed at locations indicated on the Plans or Standard Sheets. Brace assemblies shall be installed at each intermediate post as indicated on the Plans or Standard Sheets.

Vinyl Coated Chain-link Fencing on Plastic Coated Frame:

The construction details specified on Chain-Link Fencing with Top Rail or Chain-Link Fencing with Top Tension Wire shall apply with the following addition:

If any of the resin clad material specified under item has the protective resin coating is damaged so its effectiveness to prevent corrosion of the base material is impaired, the Contractor shall repair such parts by applying one coat of an approved compound of color to match original material.

Fence Gates:

The Contractor shall construct metal fence gates of the type and size as indicated on the Plans or Standard Sheets, and in the location shown on ordered by the Engineer.

Upon removal, fence gates shall become the property of the Contractor and shall be removed by it from the project site.

METHOD OF MEASUREMENT:

This work will be measured as the number of linear meters of the chain-link fencing installed as measured along the top of fencing, including gates, center to center of end posts.

BASIS OF PAYMENT:

The unit price bid per linear meter for temporary chain-link fencing shall include the cost of all labor, materials, tools and equipment necessary to satisfactorily install the fencing , and gates and to subsequently remove them, and shall include all necessary clearing, grubbing, excavation and disposal, fill, concrete, anchoring, posts, hardware, fencing, gates, gate posts, locks, bracing, drilling or forming holes in concrete barriers as necessary, repair of material damaged by the Contractor's operations and all other materials.

Upon completion of construction, all materials installed under this item shall become the property of the Contractor and shall be removed by the it from the site of work.

After placement, payment will be made for ninety (90) percent of the quantity of chain-link fencing and gates furnished and erected in accordance with contract requirements. The remaining will be paid upon removal.