

SECTION 02753
STEEL SPAN WIRE

02753.01 GENERAL**A. Description**

Steel span wire shall include, but not necessarily be limited to, furnishing and installing steel wire with messenger rings for signal head mounting, sign mounting, and inter connect runs and tethering purposes, as shown on the Plans and in accordance with the Contract Documents or as directed by the Engineer.

B. Related Work Included Elsewhere

1. Signal heads; Section 02740.
2. Signal poles; Section 02750.
3. Strain poles; Section 02751.
4. Pedestal poles; Section 02753.

C. Quality Assurance

The Engineer will inspect all materials and work to ensure compliance with the Contract Documents.

D. Submittals

Certificates of compliance shall be submitted as specified in the "General Provisions" for the steel span wire stating that it meets the requirements specified in Section 02753.02.

02753.02 MATERIALS**A. Materials Furnished by the County**

The County will not furnish any materials for steel span wire.

B. Contractor's Options

Not applicable.

C. Detailed Material Requirements

1. Span Wire

Span wire shall be 3/8 inch diameter unless otherwise specified. Span wire shall be fabricated of seven steel wires, Class A galvanized meeting the requirements of

ASTM A 475, and twisted into a single concentric strand meeting the strength requirements shown on the Plans.

2. Steel Messenger Rings

Steel messenger rings, 1-1/2 to 3 inch diameter, shall be mechanically or hot-dip galvanized after fabrication. The coating shall meet the requirements of ASTM A 153.

02753.03 EXECUTION

The span wire shall be attached to poles by wrapping two full turns of the span wire around the pole at the specified height.

The free end of the wrapped span wire shall be 2 feet in length and shall be secured to the traversing span wire by galvanized 6 inch bolt clamp with three 5/8 inch bolts and thimbles.

Before erecting span wire, the Contractor shall determine the length of suspension strand required to span the distance between the poles indicated on the Plans. A sufficient additional length of span wire shall be allowed to compensate for sag of pole connections and adjustments to make the whole assembly consistent with the Plans.

Messenger rings shall be installed 10 inches apart.

The Contractor shall not erect any span which lays on or which may rub a utility company wire or cable. If a span wire as erected is within 6 inches of any other cable, wire, or structure, it shall be protected with plastic wire guards. The Contractor shall comply with other requirements as dictated by law and utility companies.

02753.04 METHOD OF MEASUREMENT

Measurement for steel span wire will be made of the length of each wire size specified and satisfactorily installed.

02753.05 BASIS OF PAYMENT

Payment for steel span wire will be made at the price bid per linear foot for each size specified and installed complete in place. The price bid shall include furnishing and installing the wire, messenger rings, and all hardware including all equipment, labor, and incidentals necessary to complete this item of work as shown and specified in strict accordance with the Contract Documents.