NOTES

All diaphragm material, not embedded in the concrete girders, shall be paid for at the unit price for "steel diaphragms..." each.

Each diaphragm between girders shall constitute one unit.

All diaphragm structural steel shall be ASTM A709 grade 36.

All diaphragm material, including bolts, nuts and washers shall be galvanized after fabrication.

Steel diaphragm to concrete web connection shall be #4 wire. Unless noted otherwise, high strength bolts provided for this connection shall meet the requirements of ASTM A490.

Designer Notes

For spans equal to or less than 60 ft, place the diaphragm at mid-length of girder, for spans over 60 ft, place at 1/3 and 2/3 point.

On the plans, show location of inserts/holes for diaphragm to web connection, not only from the bottom of the girder frame, but also from the ends of each girder.

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Interior Steel Diaphs. for 36W" Prestressed Girders

Section at interior girders thru diaphragm for skew angles > 10°

Attachment to channel

Bend plate

6" x 3¾" long slotted hole (typ.)

6½" x 3¾" long slotted hole (typ.)

1½" x 2" long electroplated A193 B7 cap screw with lock washer, to be paid for单独.

1½" x 2" long electroplated A193 B7 cap screw with lock washer, to be paid for单独.

For each pair of angles to a beam face, one slotted hole to be provided and one to be minimum.

DEVELOPED BY
BUREAU OF STRUCTURES

STANDARD 19.38

APPROVED
Bill Oliva
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