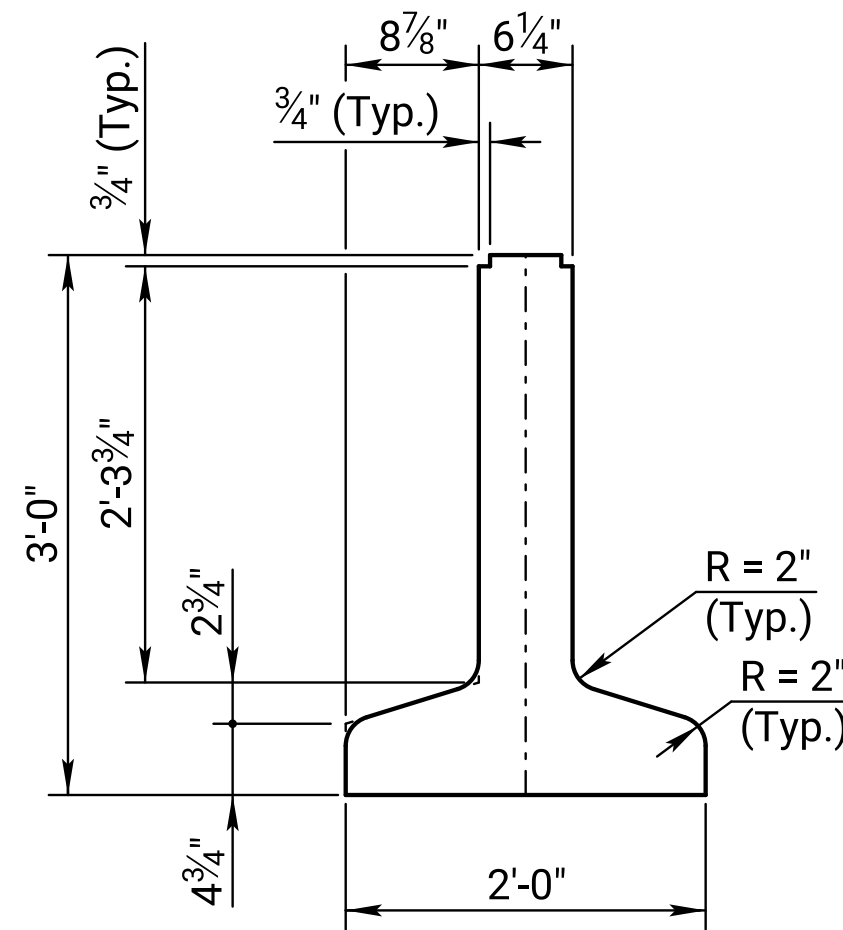


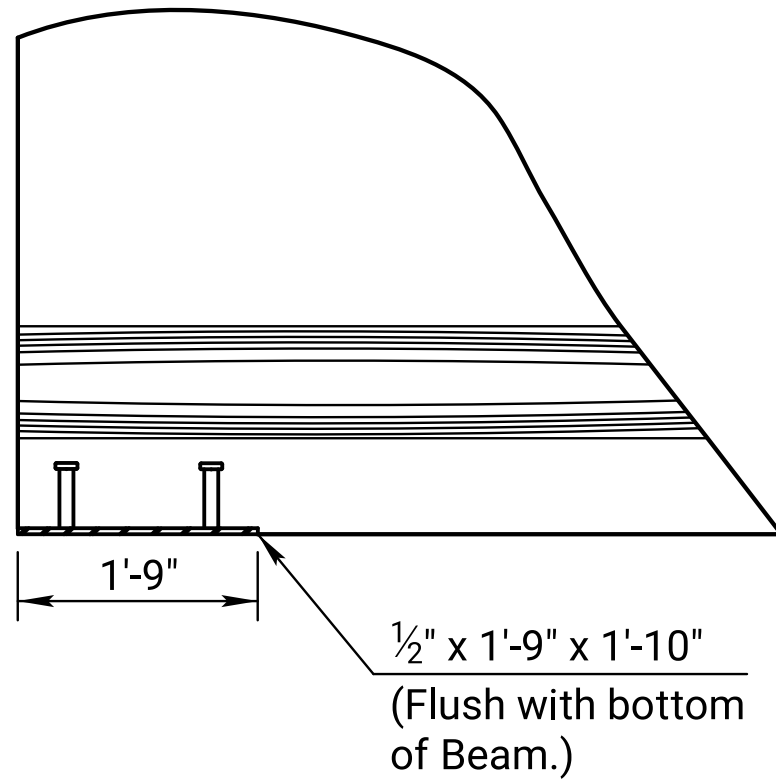
NOTE TO DESIGNER (TO BE REMOVED):
Select proper IT section from outside the
border to be included within the border.



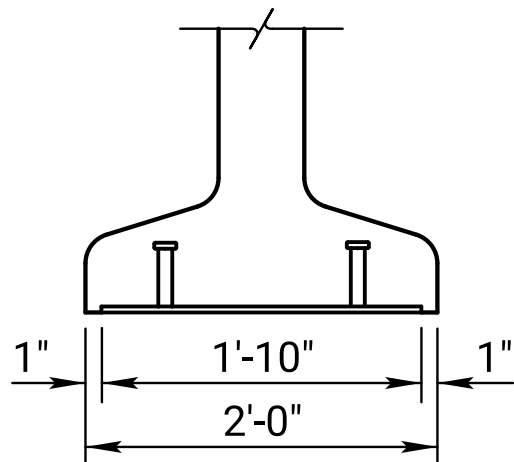
TYPICAL SECTION

(Section Properties IT900)

Area	332.6 in. ²
IcG	40,310 in. ⁴
Y Bot	13.08 in.
Vol./Surf. Area	2.93 in.
Wt./Ft.	346.5 lbs.



ELEVATION



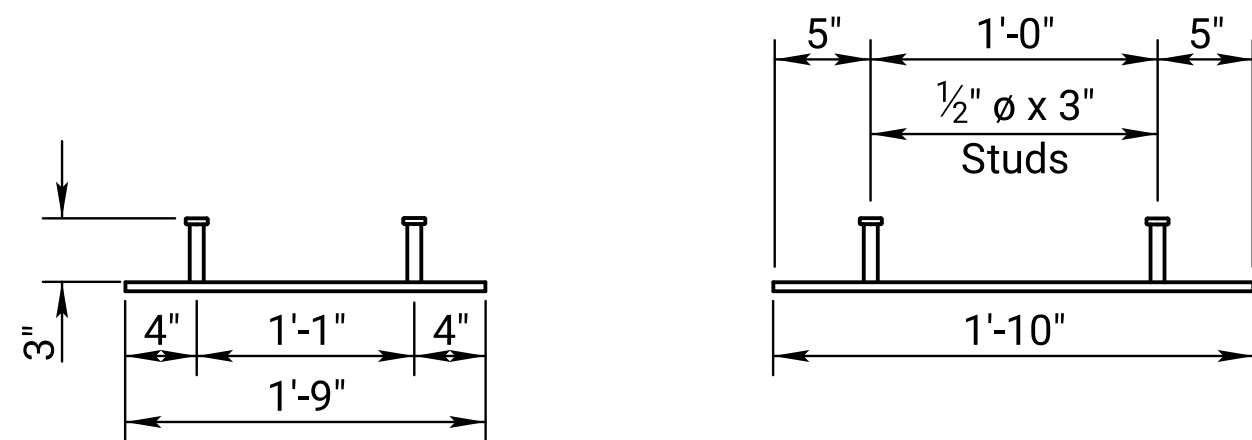
END VIEW

Note: Stud welding will be in accordance with the latest edition of AWS D1.1.

Use plate conforming to the requirements of ASTM A709 Grade 36. The stud anchors will be made of material as specified for Shear Connector Studs in the KDOT Specifications.

The exposed surface of the bearing plates shall be galvanized.

All work and material to install the bearing plates shall be subsidiary to the bid item "Prestressed Concrete Beam."

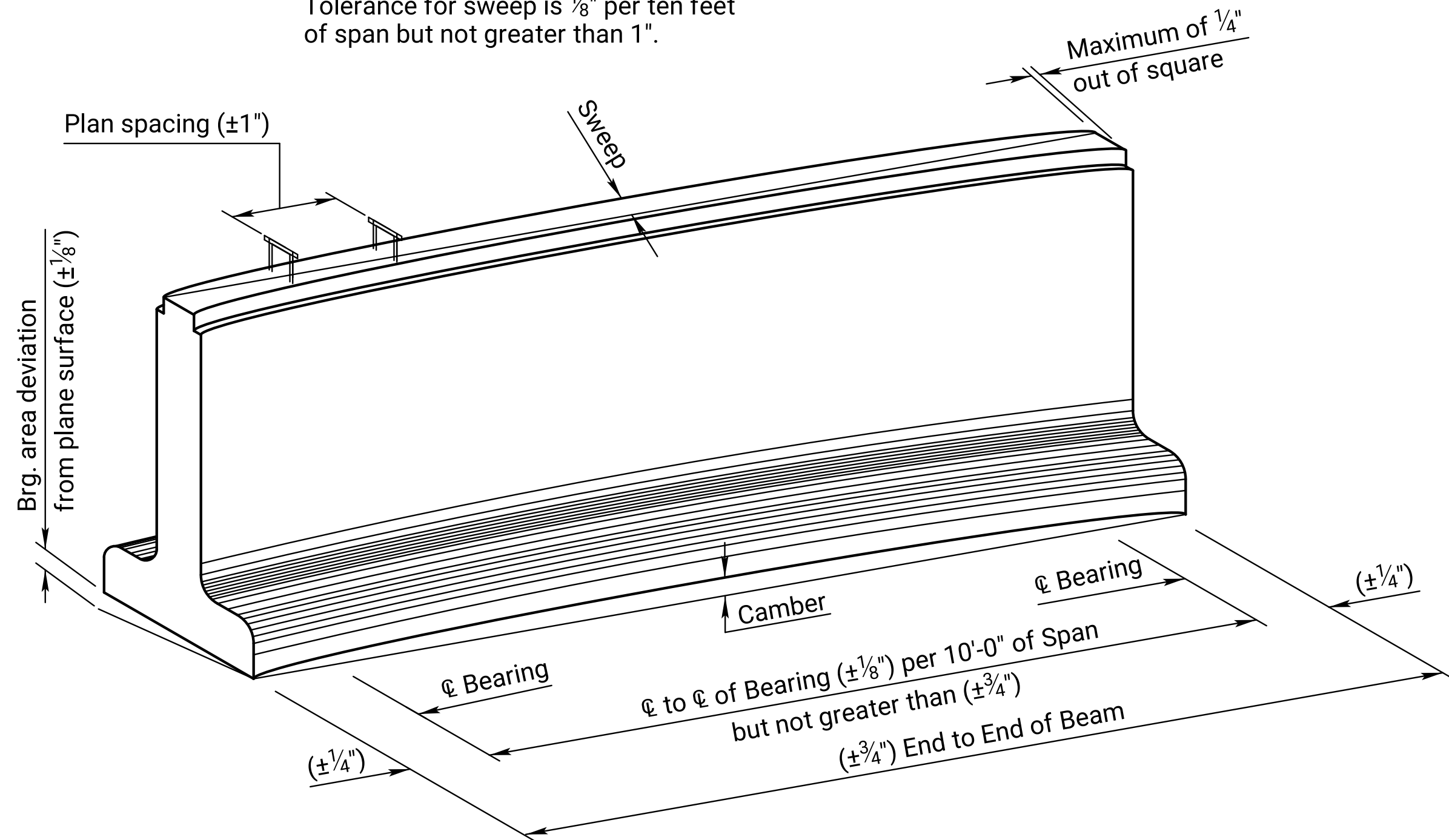


ELEV. OF BRG. PLATE

TYPICAL SECTION

BEARING PLATE DETAILS

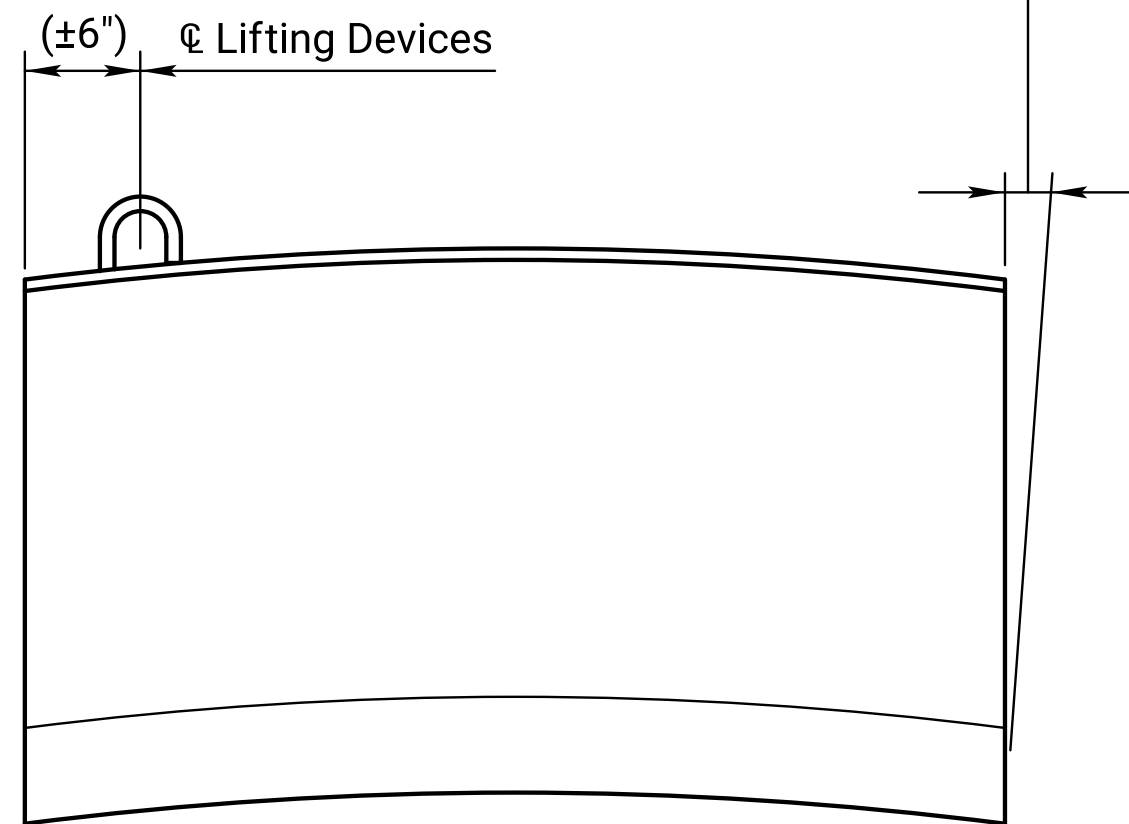
Note: Tolerance for camber is 1" maximum variation in camber between adjacent beams and 1/8" per ten feet of span deviation from the specified camber but not greater than 1/2" deviation. Tolerance for sweep is 1/8" per ten feet of span but not greater than 1".



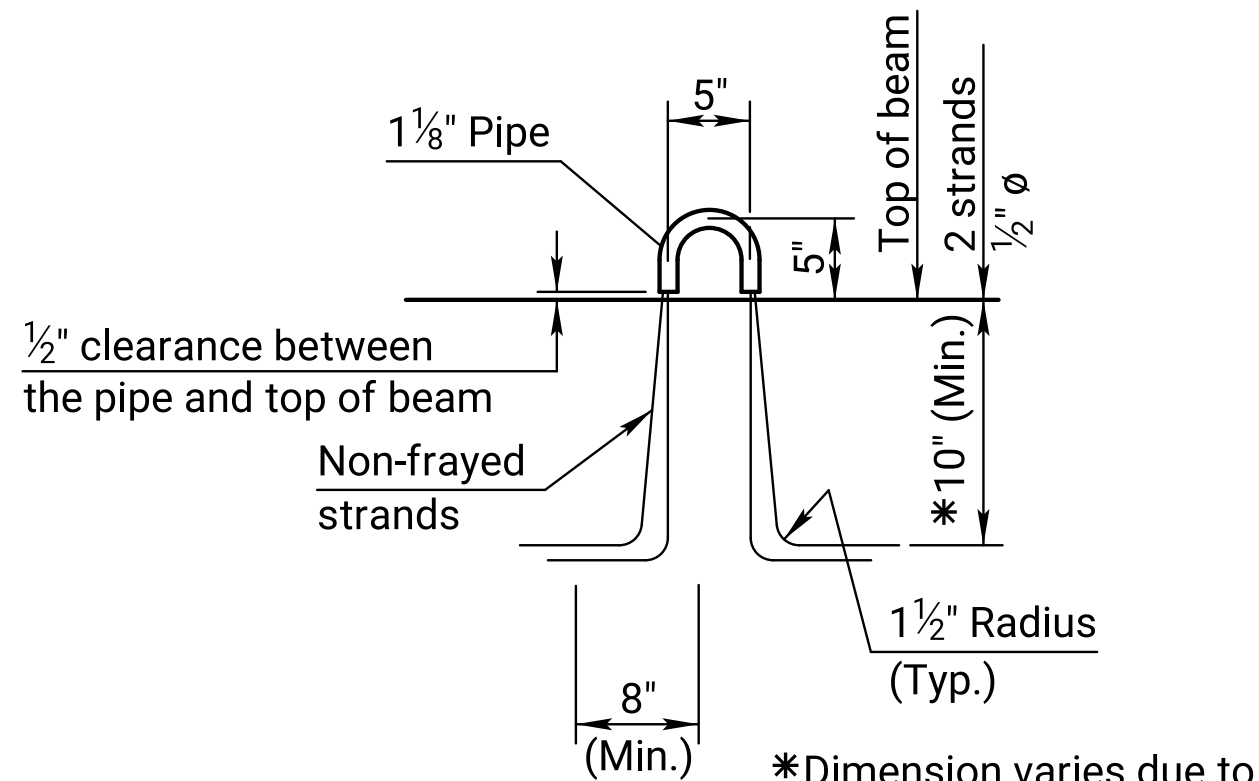
PRESTRESSED BEAM FABRICATION TOLERANCES

Note: Dimensions shown in parentheses are tolerances only.

Maximum deviation from plane normal to axis of beam is 1/8" per foot of beam height.

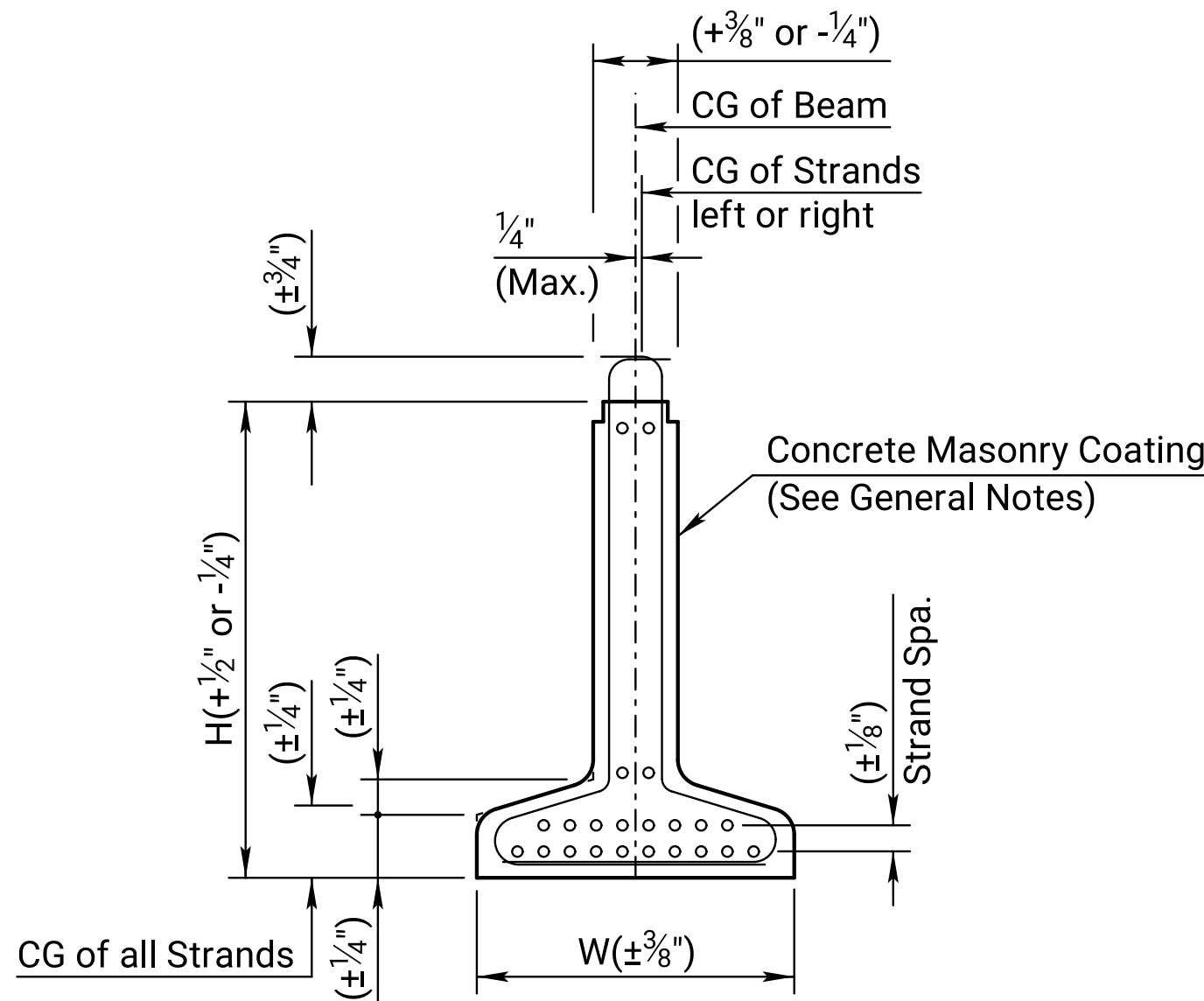


ELEVATION



LIFTING DEVICE

*Dimension varies due to beam depth selected. Extend as needed.



TYPICAL SECTION

GENERAL NOTES

Fabricate the precast prestressed beams in accordance with the KDOT Specifications. Submit shop drawings in accordance with the KDOT Specifications.

Use air entrained concrete. The KDOT Materials Section shall approve the mix design. Unless otherwise shown on the plans, f'c = 5000 psi and f'c at release = 4000 psi.

Use 1/2" nominal diameter, uncoated, seven-wire, low relaxation prestressing tendons conforming to the requirements of ASTM A416, Grade 270.

Use reinforcing steel conforming to the requirements of ASTM A615, Grade 60. All reinforcing shall be epoxy-coated. Galvanized welded deformed wire reinforcement, conforming to the requirements of AASHTO M221, may be substituted for epoxy-coated reinforcing steel. Details of the welded deformed wire reinforcement showing size, shape, clearances and etc. shall be submitted to the Engineer for approval. Hot dip galvanize the welded deformed steel wire reinforcement according to ASTM A641.

Use elastomeric bearing pads conforming to the KDOT Specifications. Bearing pads and Type B expansion joint material shall be subsidiary to the bid item "Prestressed Concrete Beams."

Show on the shop drawings any hardware, holes or other appurtenances that are incorporated into the girder to fabricate the girder or for temporary works needed to construct the bridge (e.g. safety railing pockets). Such items must gain the Engineer's approval before the shop drawings will be approved.

The beam lengths shown on the design plans are net lengths measured horizontally along the beam centerline. The beam manufacturer shall make necessary allowances for grade and for shortening due to elastic shortening, creep and shrinkage.

The beams shall reasonably conform to the lines and dimensions shown on the design plans and be within the tolerances specified for I-Beams in the latest edition of Prestressed Concrete Institute's, "Manual for Quality Control for Plants and Production of Structural Precast Concrete Projects", except as modified by this sheet or the KDOT Specifications.

Bevel all exposed edges of beams except the tops, ends and the 3/4" x 3/4" notch with a 3/4" triangular molding or round the edges to a 3/4" radius. Round the angle of intersection between the web and the flanges to a 2" radius.

Apply an initial force of 1,000 to 3,000 pounds to each strand to take up any slack in the cables. Unless otherwise noted on the plans, apply a force of 31,000 pounds to each strand.

Strike off level and apply a wire brush or stiff broom finish to the tops of the beams. Apply the finish transverse to the length of the beam. At approximately the time of initial set, brush the top of the beam transversely with a coarse wire brush to remove all laitance. The plywood form seat shall be finished smooth with a steel trowel.

Coat the exterior face of the exterior beams with an approved concrete masonry coating. If trapped air holes or surface voids appear on any other faces of the exterior or interior beams then, coat that entire face with an approved concrete masonry coating. This work shall conform to KDOT Specifications. This work shall be subsidiary to the bid item, "Prestressed Concrete Beams".

Detension strands in a sequence which minimizes lateral eccentricity. Show the method and sequence of strand release on the shop drawings. Use extreme care when lifting, handling, storing and transporting beams. Use the lifting system shown or an alternate system approved by the Engineer. Keep the beam in an upright position at all times. Support the beam on bearing points positioned directly below the designated lifting points or designated bearing points.

Do not place the bridge slab before the beams are 28 days old.

Stencil with paint the following information on the webs approximately 5'-0" from one end of the beam: date of concrete placement, date of strand release, and beam mark.

04	08-16-18	Note Update	M.L.L.	J.P.J.
03	03-03-10	Added Bearing Plate	J.P.J.	K.F.H.
02	01-21-10	Clarified Masonry Coating Limit	J.P.J.	K.F.H.

NO.	DATE	REVISIONS	BY	APPD
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Br. No. 0-0- ()				Sta.
STANDARD PRESTRESSED CONCRETE INVERTED TEE SECTION DETAILS				
Proj. 0				Co.
DESIGNED	DETAILED	QUANTITIES	CADD	
DESIGN CK.	DETAIL CK.	QUAN. CK.	CADD CK.	