

strands shall have 1/4" clear cover

to edge of drain hole form.

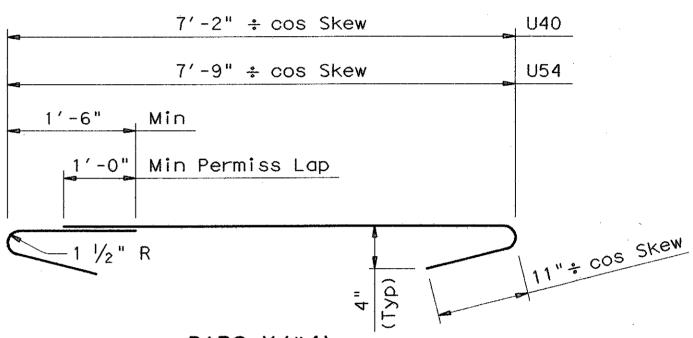
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BEAM DIMENSIONS AND SECTION PROPERTIES Weight Area (in.4)(in.) (in.2)(p|f)(1)(in.) (in.) (in.) (in.) 10 1/8 8 3/8 17 23.66 16.30 979.9 183,108 1021 47 1/4 64 1/2 30 1/2 24 1/8 11 7/8 20 1/2 31.58 22.36 1120.0 403,020 1167

1) Weights shown assume a concrete density of 150 pcf and are for the typical section only. These weights do not include weight of diaphragms or endblocks.

 $\frac{\text{BEAM TOLERANCES}}{\text{(Deviation from planned dimensions)}}$ $\frac{\text{Type}}{\text{Tolerance}} \frac{\text{Maximum}}{\text{Horizontal Alignment}}$ $\frac{\pm 1/8}{\text{upon release of stress}} \frac{1}{4} = \frac{1}{4}$



BARS Y (#4)

GENERAL NOTES :

All reinforcing steel shall be grade 60.
Reinforcing steel dimension and bend radii are shown to centerline of bars.

Reinforcing steel shall have 1" min clear cover unless

noted otherwise.

All acute corners shall be chamfered for Skews greater than 20 Degrees. Any corner of the beam noted with "chamfer" shall be chamfered 3/4" or rounded to a 1 5/8" radius. Optional chamfers, if used shall likewise conform.

Horizontal form joints (seams) will not be permitted. The beam section dimensions in inches are approximate values converted from the metric beam section dimesions shown on the UBA(M) sheets. The beam section properties are exact conversions of the metric beam section properties shown on the UBA(M) sheets. New forms for U-Beams should be fabricated to the metric dimensions shown on the UBA(M) sheets.

An equal area of welded wire fabric may be substituted for Bars R, P, X and Y.

Shop drawings may be prepared with horizontal skews rounded to the nearest 1/4 degree and batter rounded to the nearest 1/4 inch. These design tolerances are in addition to the fabrication tolerances.

Fabrication tolerances shall be as required for Box Beams under the Item, "Precast Concrete Structures (Fabrication)", except that the horizontal alignment, horizontal skew, and vertical batter shall be as shown above in table labeled "Beam Tolerances".

See Bridge Layout and Clearance Sign Bracket sheets for location of anchors in exterior beam for clearance sign bracket.

HS20 LOADING

Texas Department of Transportation
Design Division (Bridge)

PRESTRESSED CONCRETE

U-BEAM DETAILS

SHEET 1 OF 2 310

ILE: Ubstd001.dgn | DN:TXDOT | CK:TXDOT | DW: BWH | CK: TGA | STD: B539 |

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