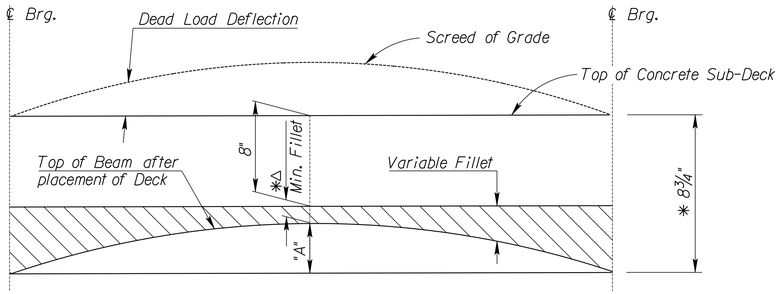
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	TE-0284-01	2007	25	47



Dimension "A"= (Camber @ 50 days)- Dead Load Deflection (Slab + Diaphragm + Rail + Fillet + Bricks)
Total Thickness @ ℄ Brg.= (Dimension "A")+ (Total Deck Thickness)+ (⅝" Fillet)

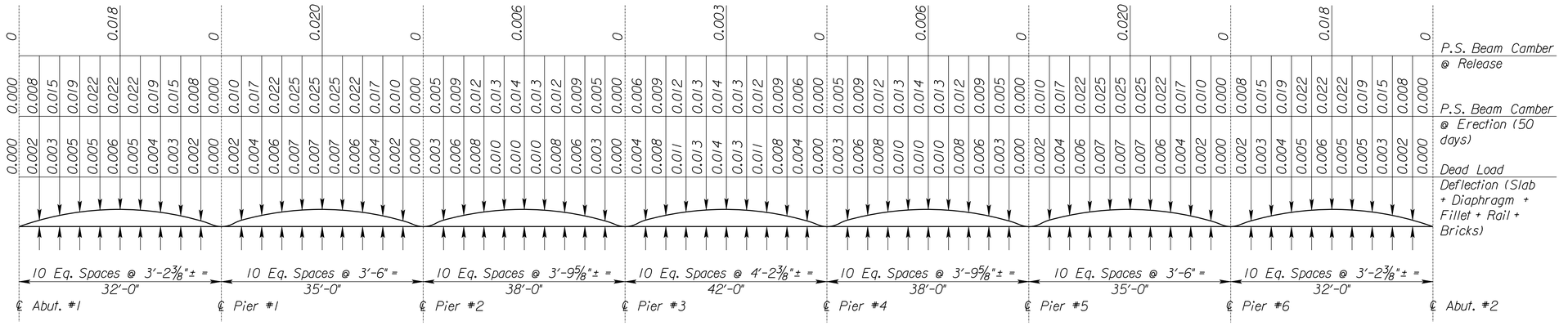
CAMBER DIAGRAM SHOWING VARIABLE FILLET THICKNESS

* *Dimensions shown are along ℄ of the beam.*

△ *Theoretical fillet at midspan for Spans #1, #2, #6 & #7 is ⅝", theoretical fillet at midspan for Spans #3 thru #5 is ⅞".*

CAMBER: Construct the finished deck to plan grade by varying the depth of the fillet over the beam to provide for prestress camber, concrete dead load deflection and vertical curvature. After the prestressed beams are erected measure the camber in the field by taking a profile of each beam. Correct any variation between the actual camber and concrete dead load deflection shown in the plans by varying the depth of the concrete fillets over the beam so that the finished floor is constructed to the theoretical grade. The minimum depth of the slab over the beam shall be 8" @ ℄ beam (not including sand & bricks).

The theoretical amount of concrete required for the fillets is 4.82 C.Y. This amount of concrete is included in the Summary of Quantities. Any additional concrete required to construct the fillets will be subsidiary.



(K2) BEAM CAMBER AND DEAD LOAD DEFLECTION

Beam camber at midspan shall be measured by the Contractor at the project site at time of delivery. A copy of the field notes of measured beam camber shall be submitted to the Engineer not more than 5 working days after delivery of the beams to the site. Beam camber shall meet the tolerance specified on the "Standard Prestressed Concrete Beam Details" sheet.

Ordinates are in feet

Beam Concrete: Ei= 4.031 x10⁶ psi (f'c = 5,000 psi)
Ef= 4.415 x10⁶ psi (f'c = 6,000 psi)

Note:
Camber is Upward
Deflection is Downward

See Sh. #22 for Standard Prestressed Concrete Beam Details.

CITY OF WICHITA
JAMES ARMOUR, P.E., CITY ENGINEER

13TH STREET BRIDGE OVER
LITTLE ARKANSAS RIVER

BEAM AUXILIARY DETAILS

PARSONS BRINCKERHOFF
Wichita, Kansas

SCALE ——
DATE 10/9/2007
DWG. NO. 35750A

SURV.	JG, CP	PLOT	CADD	DES.	AH	DR.	GB	TR.	CKD.	BS	APP.	RG

K:\35750A\CADD\SHEETS\BRIDGE\13THBMAUX.dgn