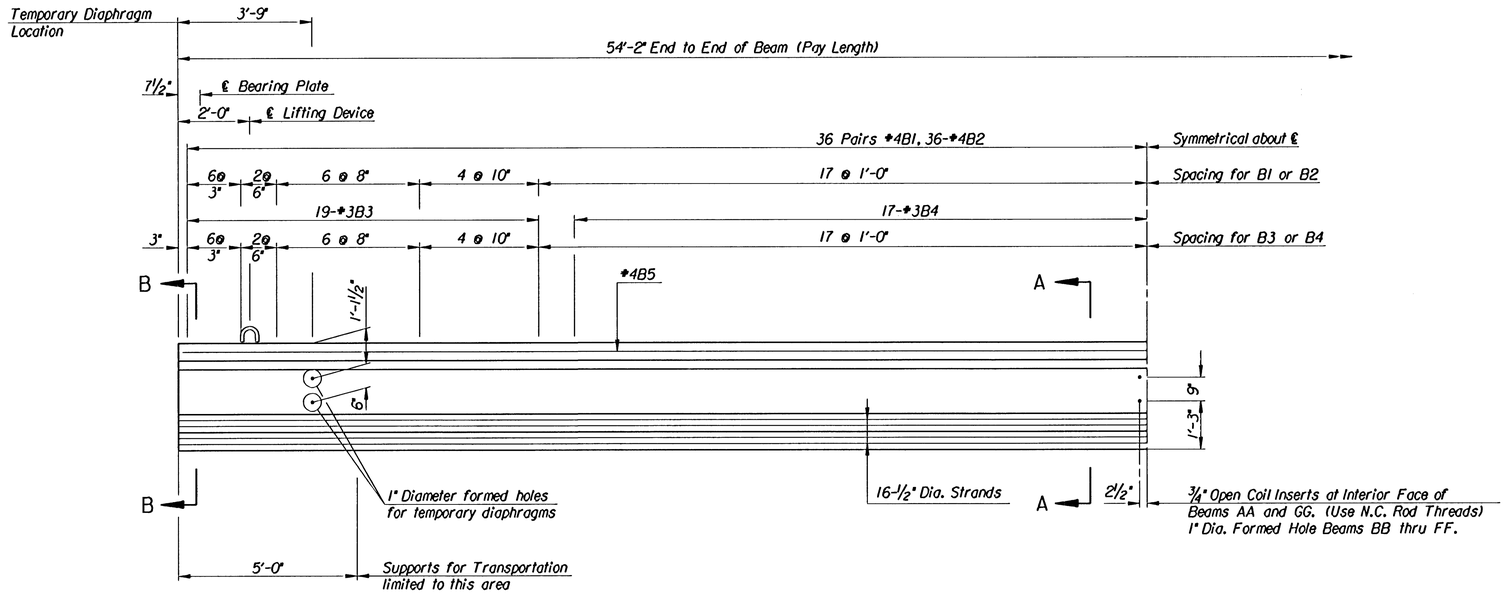
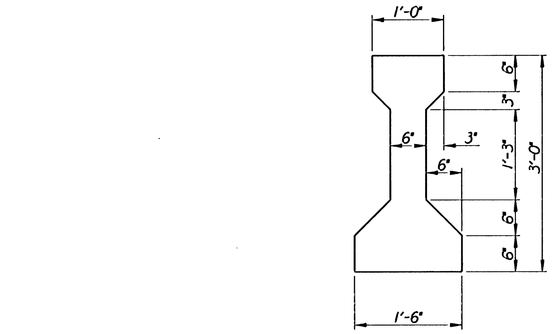
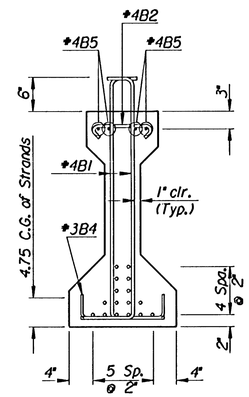
SHEET NO.	TOTAL SHEETS
22	50



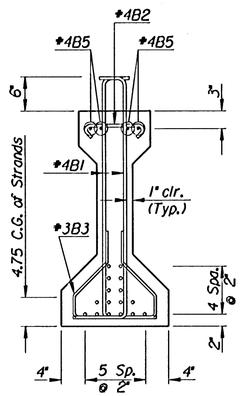
ELEVATION OF PRESTRESSED CONCRETE BEAM
(54'-2" Beam)
7 Req'd.-10.4 Tons/Beam



TYPICAL SECTION



SECTION A-A



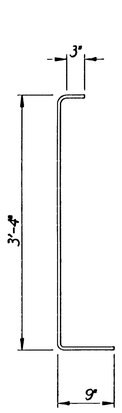
SECTION B-B

REINFORCING STEEL			
Mark	No.	Size	Length
54'-2" Beam-1 Listed-7 Req'd.			
STRAIGHT BARS			
B5	8	#4	27'-8"
BENT BARS			
B1	142	#4	4'-4"
* B2	71	#4	1'-5"
* B3	38	#3	4'-0"
* B4	33	#3	1'-10"

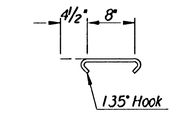
* Grade 40 may be substituted.

SUMMARY OF QUANTITIES			
	Item	Unit	Total
	Prestressed Concrete Beams (K2 - 54'-2" Beam)	Lin. Ft.	379.17
Subsidiary to Prestressed Concrete Beams (K2)	The following Quantities are given for Information Only (Total for 7 Beams)		
	Concrete in Beams (f'c = 6,000 p.s.i.)	Cu. Yds.	36.0
	Prestressing Steel A416 ½" Dia. (Low Relaxation)	Lin. Ft.	6,067
	Reinforcing Steel (Grade 60) (Epoxy Coated)	Lbs.	4,941
	Elastomeric Bearing Pads (D60) (3/4"x8"x1'-6")	Each	-----
	¾" Open Coil Insert 6.0M (Coil Thread)	Each	24
	¾" Threaded Coil Rods x 1'-6"	Each	24
	End Bearing Plates (Galvanized) (1/2"x15"x1'-4")	Each	14

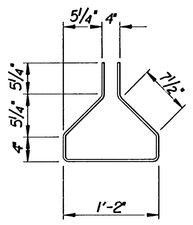
6.0M Designates 6000 Lbs. Load in Tension.



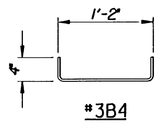
#4B1



#4B2

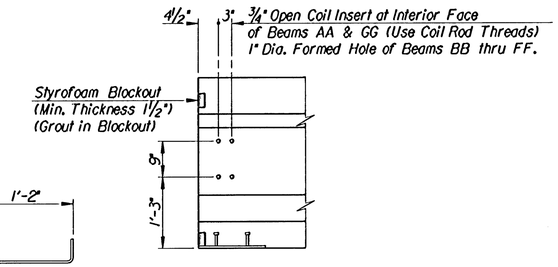


#3B3



#3B4

BENDING DIAGRAMS
Dimensions are out to out of bars.



BEAM END AT PIER

Note:
No strands are to be extended at this location. All strands shall be cut flush with the inside face of the Styrofoam Blockout.

Note:

Reinforcing Steel shall be Grade 60 unless otherwise designated in the Bar List.

Ends of Prestressed Beams shall be treated with an approved sealer prior to diaphragm construction.

No.	Revisions	By	Date
1			

CITY OF WICHITA, KANSAS
JAMES L. ARMOUR, P.E.-ACTING CITY ENGINEER
MURDOCK BRIDGE
OVER LITTLE ARKANSAS RIVER
K2 BEAM DETAILS SPAN NO. 3
CITY OF WICHITA PROJECT NO. 472-83895

Professional Engineering Consultants, P.A.
303 S. TOPEKA • WICHITA, KANSAS 67202
316-262-2691 • FAX 316-262-3003

Designed by	R.A.S.	Checked by	M.S.N.	
Drawn by	W.L.L.	Date	March 2004	Job No. 96940-2

drawn by: wll
plotted by: ras 3-22-2004
i:/1996/96940/002/officecheck/K2span3