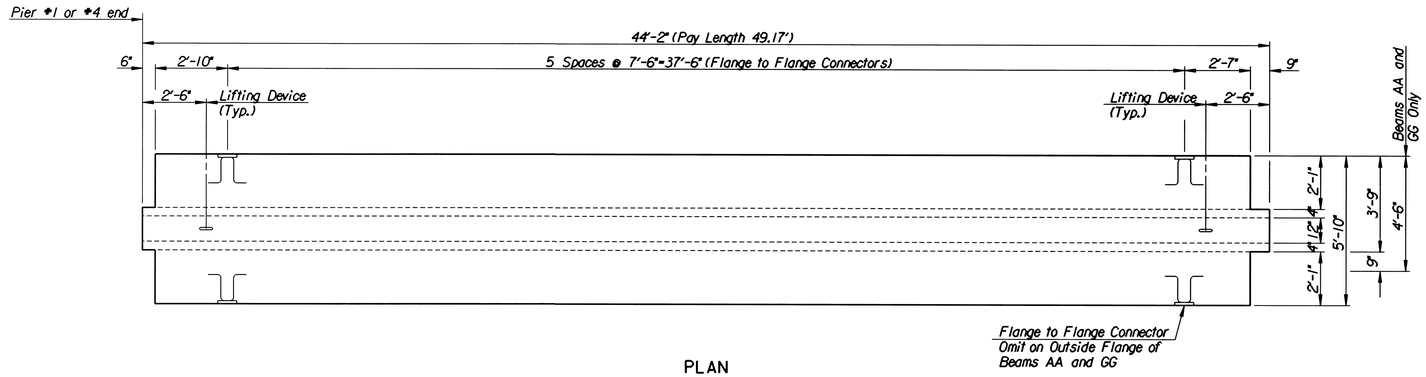
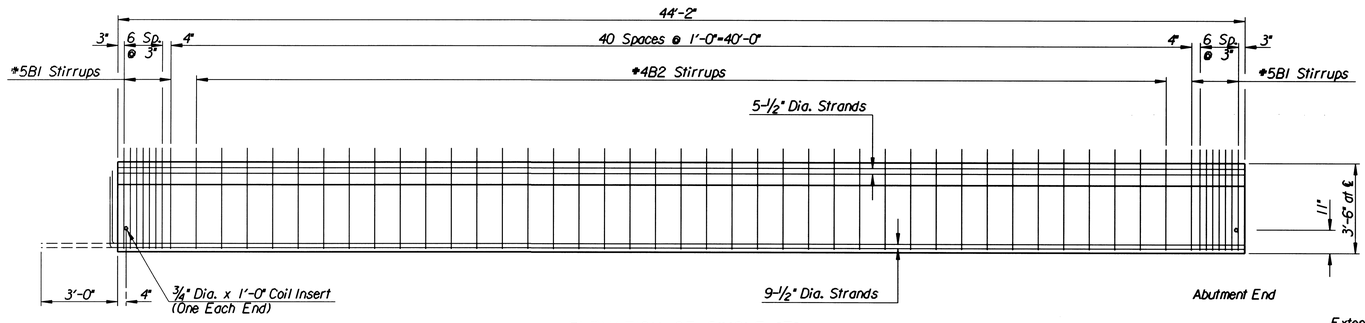
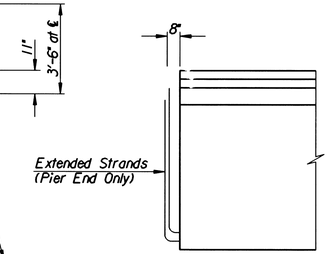


PLAN



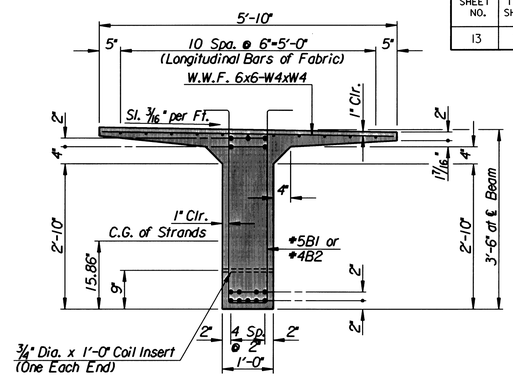
ELEVATION OF SINGLE "T"
PRESTRESSED CONCRETE BEAM

44'-2" Beam - 15.6 Tons per Beam (Beams BB thru FF)
14.6 Tons per Beam (Beams AA or GG)



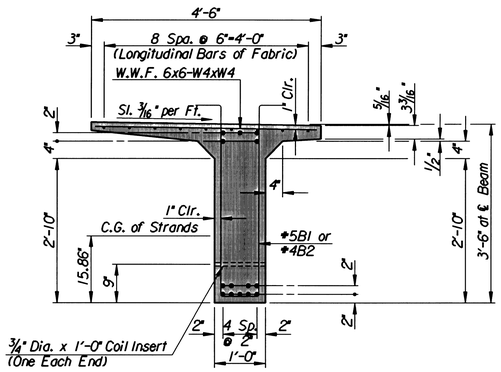
PART ELEVATION OF BEAM

(Showing Extended Strands)
Strands shall be bent on a 3" Dia. pin.



TYPICAL SECTION

(Beams BB, CC, EE and FF)
44'-2" Beam



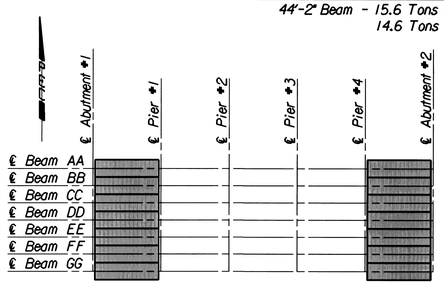
TYPICAL SECTION

(Beams AA and GG)
44'-2" Beam

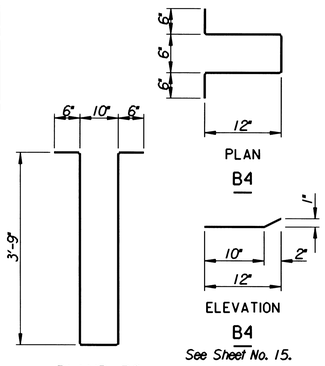
REINFORCING STEEL ** (ONE BEAM)			
Mark	*No.*	*Size*	*Length*
B1	16	#5	9'-4"
B2	39	#4	9'-4"
B4	X	#4	3'-6"
Strands	14	1/2" Dia.	———
6"x6" Fabric	5'-10" Beam - 242 Sq. Ft. 4'-6" Beam - 185 Sq. Ft.		

X 6 for Beams AA and GG
12 for Beams BB, CC, DD, EE and FF.

** See Bending Diagrams



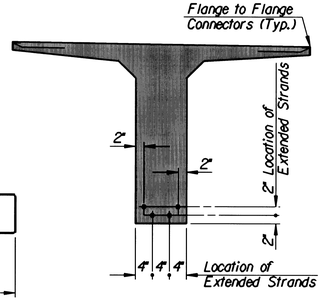
BEAM LOCATION PLAN



B1 AND B2

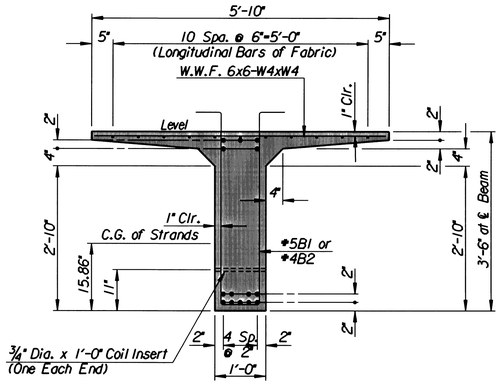
BENDING DIAGRAMS

Dimensions are out to out of bars



TYPICAL SECTION

Note:
Strands not Extended shall be cut flush.



TYPICAL SECTION

(Beam DD)
44'-2" Beam

SUMMARY OF QUANTITIES (FOR 44'-2" BEAM) *(For Information Only)*			
Item	*Unit*	*10-(5'-10" Beams)*	*4-(4'-6" Beams)*
Concrete in Beams (f'c=5000 p.s.i.)	Cu. Yds.	79.2	29.9
Prestressing Steel A416 1/2" Dia. (Low Relaxation)	Lin. Ft.	6,183	2,473
Reinforcing Steel (Grade 60)	Lbs.	4,270	1,652
Elastomeric Bearing Pads (D60) (3/4"x8"x10 1/2")	Each	10	4
3/4" Open Coil Insert 6.0M	Each	20	8
Welded Wire Fabric	Sq. Ft.	2,420	740
3/4" Threaded Coil Rod x 9"	Each	40	16

Subsidiary to Prestressed Concrete Beams

6.0M Designates 6000 Lbs. Safe Load in Tension.

No.	Revisions	By	Date
1			

CITY OF WICHITA, KANSAS
MICHAEL E. LINDEBAK, P.E.-CITY ENGINEER
MURDOCK BRIDGE
OVER LITTLE ARKANSAS RIVER
44'-2" SINGLE T BEAM DETAILS

CITY OF WICHITA PROJECT NO. 472-82785

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

Designed by	R.W.A.	Checked by	R.A.S.	
Drawn by	W.L.L.	Date	Oct. 1998	Job No. 96940

I:/1996/96940/beam-3
drawn by: wll
plotted by: ras 12:29:98