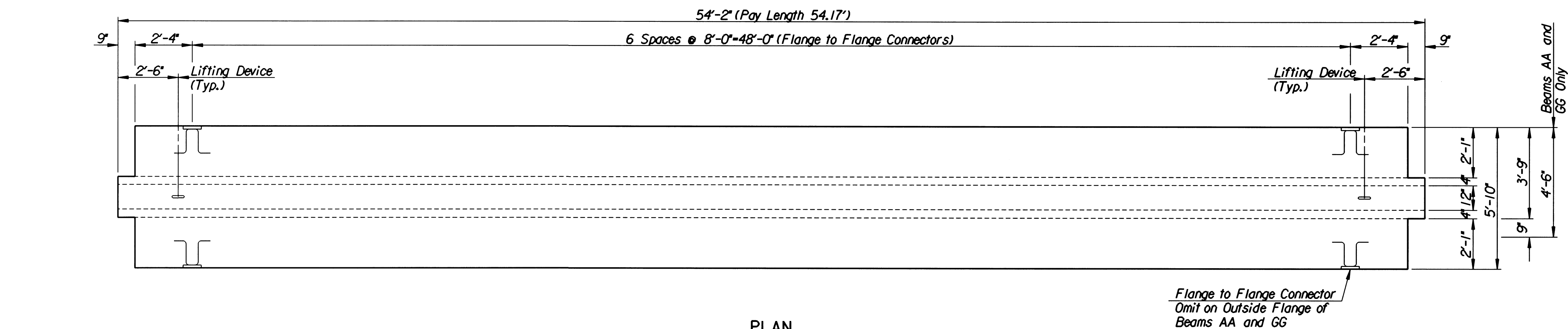
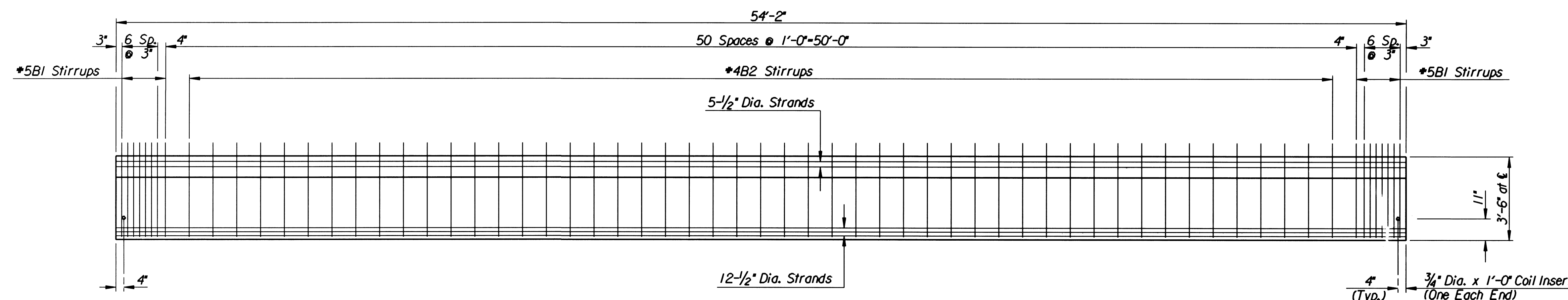




PLAN



ELEVATION OF SINGLE 'T'
PRESTRESSED CONCRETE BEAM

54'-2" Beam - 19.0 Tons per Beam (BB thru FF)
17.9 Tons per Beam (AA or GG)

REINFORCING STEEL ** (ONE BEAM)			
Mark	No.	Size	Length
B1	16	*5	9'-4"
B2	49	*4	9'-4"
B4	*	*4	3'-6"
Strands	17	1/2" Dia.	
6"x6"	5'-10" Beam - 305 Sq. Ft.		
Fabric	4'-6" Beam - 233 Sq. Ft.		

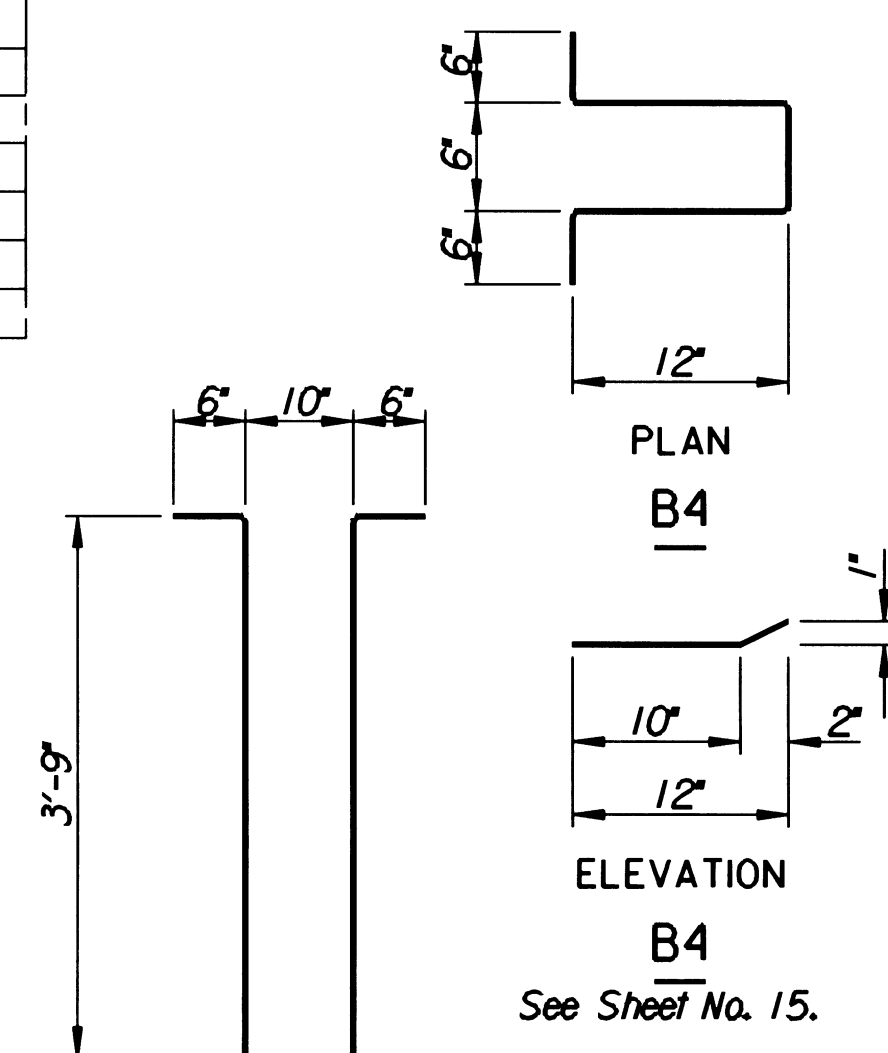
* 7 for Beams AA and GG
14 for Beams BB, CC, DD,
EE and FF.

Diagram illustrating the layout of a bridge deck with seven beams (AA to GG) and four piers (#1 to #4). The beams are labeled on the left, and the piers are labeled at the bottom. The beams are arranged in a row, and the piers are positioned at the ends and between the beams. The beams are labeled as follows: Beam AA, Beam BB, Beam CC, Beam DD, Beam EE, Beam FF, and Beam GG. The piers are labeled as Pier #1, Pier #2, Pier #3, and Pier #4. The diagram shows the relative positions of the beams and piers, with Pier #1 at the left end, Pier #2 between beams CC and DD, Pier #3 between beams FF and GG, and Pier #4 at the right end.

BEAM LOCATION PLAN

SUMMARY OF QUANTITIES (FOR 54'-2" BEAM)			
(For Information Only)			
Item	Unit	5-(5-10' Beams)	2-(4'-6' Beams)
Concrete in Beams (f'c=5000 p.s.i.)	Cu. Yds.	48.6	18.3
Prestressing Steel A416 1/2" Dia. (Low Relaxation)	Lin. Ft.	4,605	1,842
Reinforcing Steel (Grade 60)	Lbs.	2,470	955
3/4" Open Coil Insert 6.0M	Each	10	4
Welded Wire Fabric	Sq. Ft.	1,525	466
3/8" Threaded Coil Rod x 9"	Each	20	8

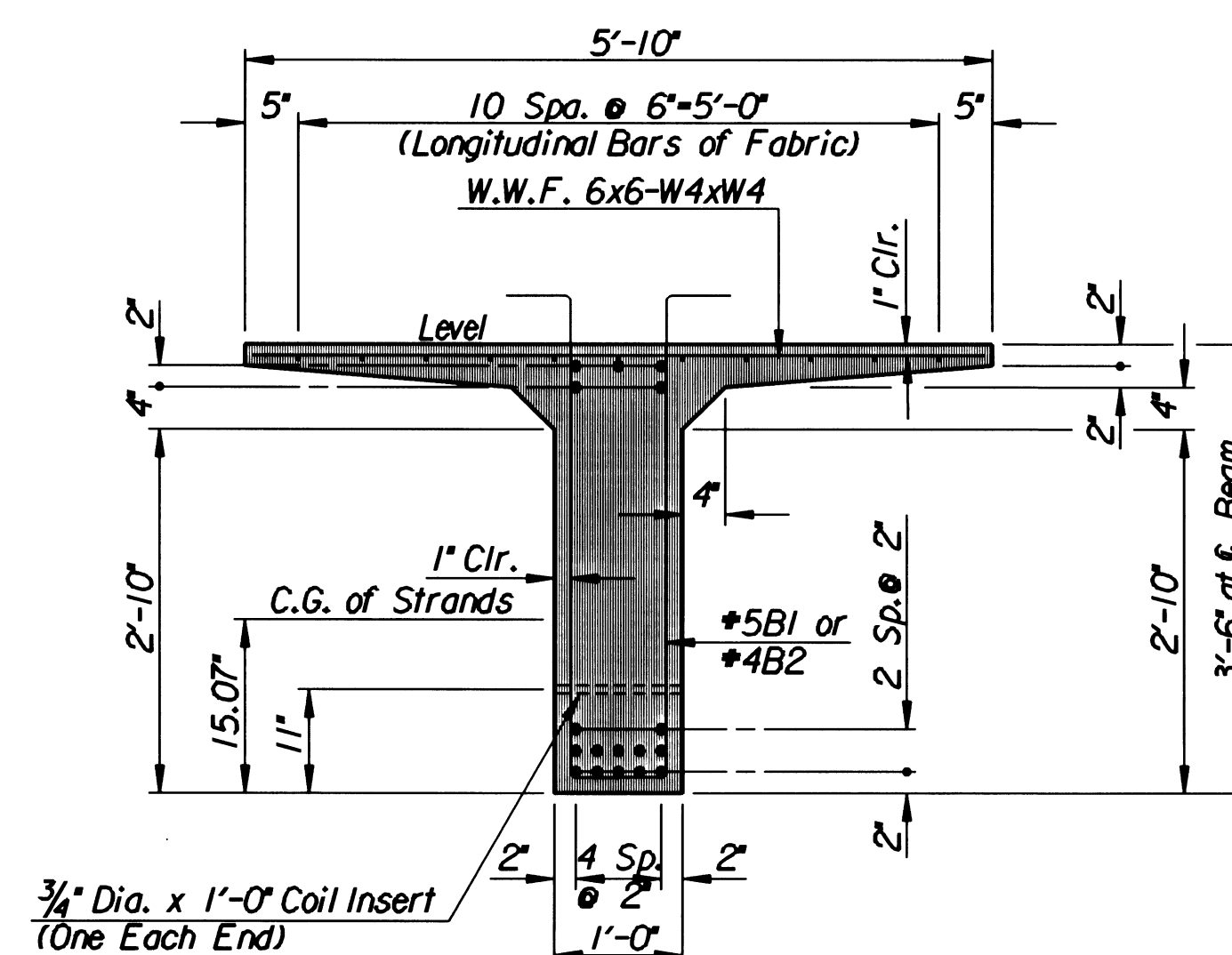
Subsidiary to Prestressed Concrete Beams
6.0M Designates 6000 Lbs. Safe Load in Tension.



BI AND B2

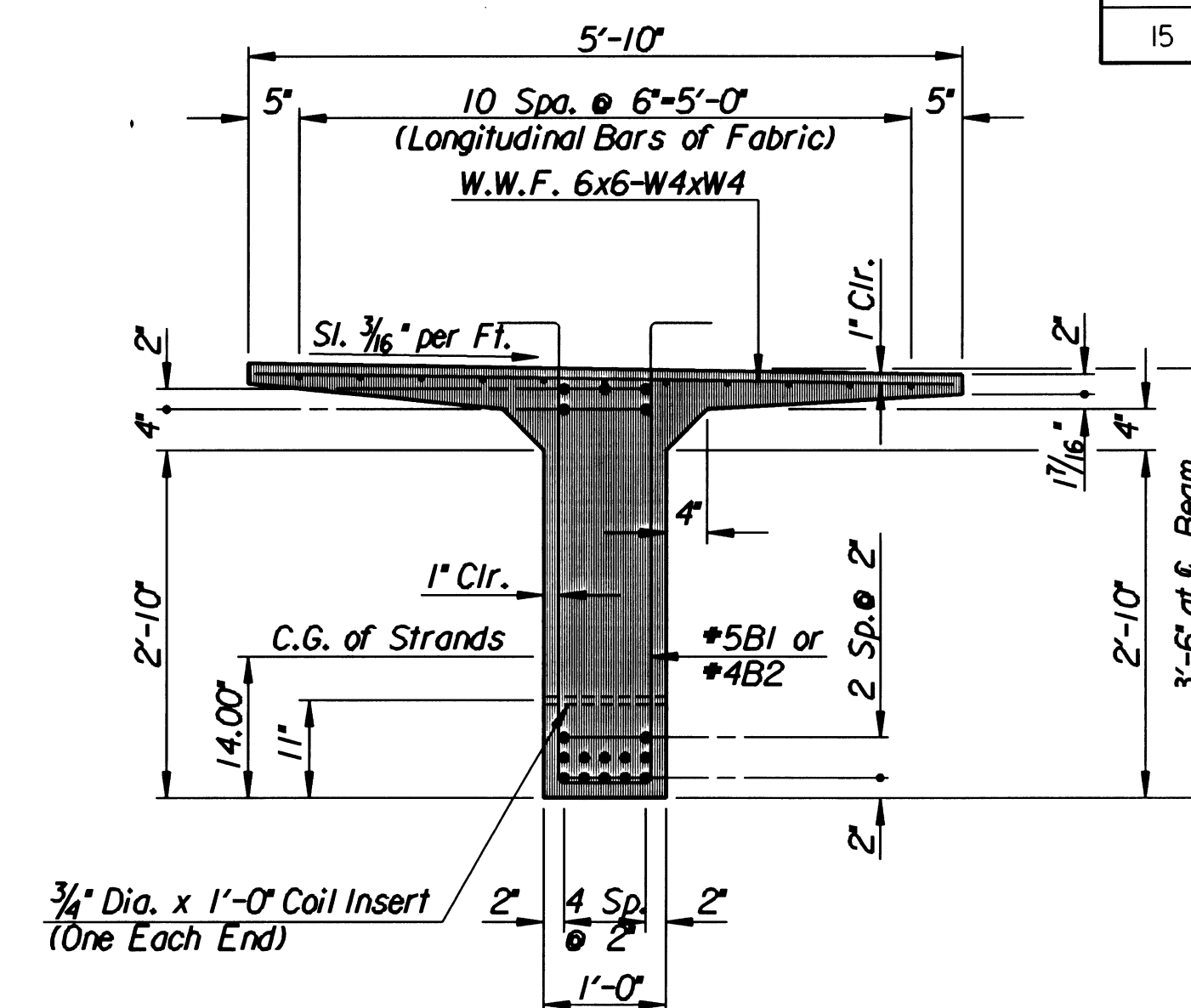
BENDING DIAGRAMS

Dimensions are out to out of bars

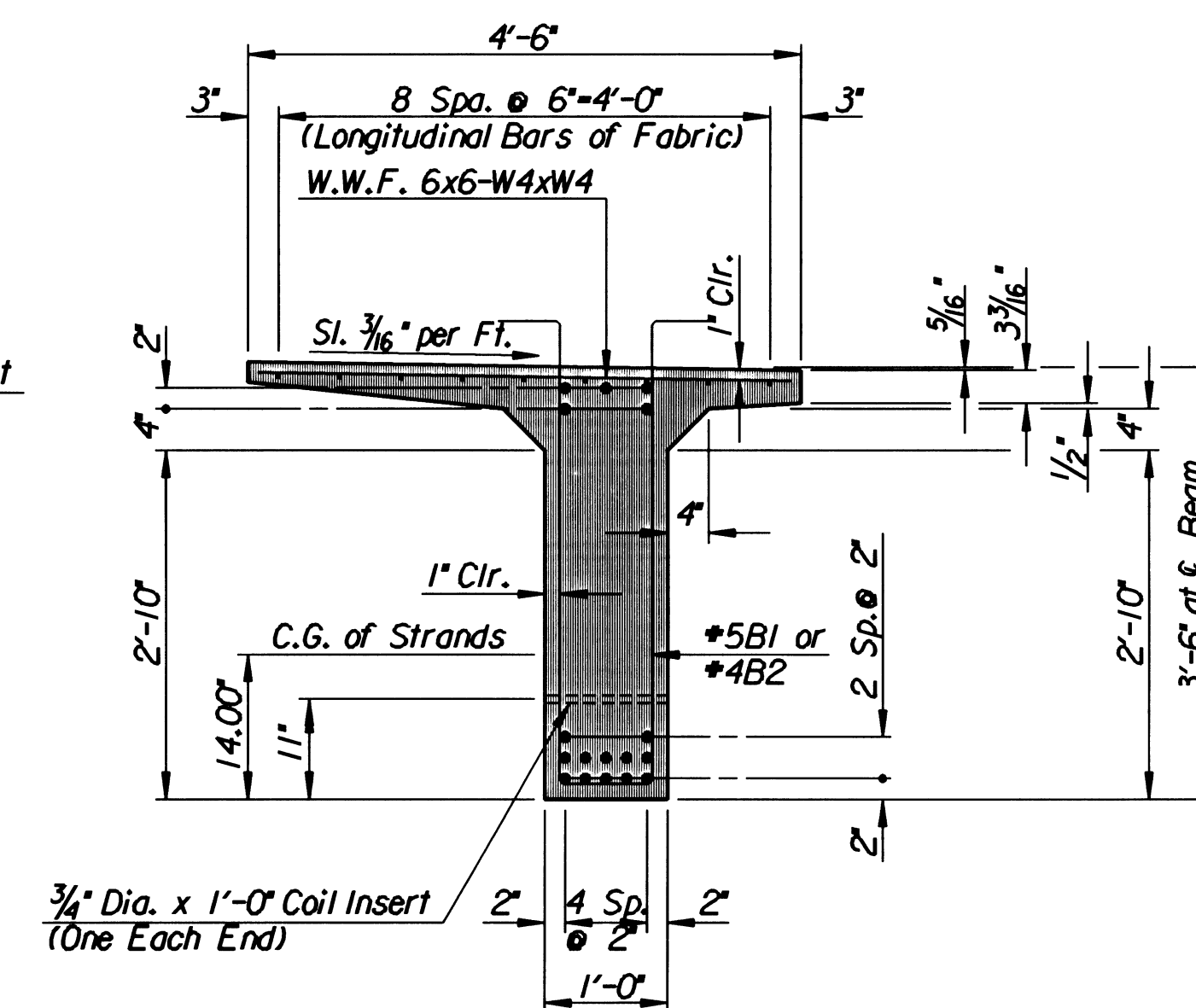


TYPICAL SECTION

(Beam DD)
54'-2" Beam



TYPICAL SECTION
(Beams BB, CC, EE and FF)
54'-2" Beam



TYPICAL SECTION

(Beams AA and
54'-2" Beam

1			
No.	Revisions	By	Date
CITY OF WICHITA, KANSAS MICHAEL E. LINDEBAK, P.E.-CITY ENGINEER MURDOCK BRIDGE OVER LITTLE ARKANSAS RIVER 54'-2" SINGLE T BEAM DETAILS			
CITY OF WICHITA PROJECT NO. 472-82785			
PROFESSIONAL ENGINEERING CONSULTANTS, P.A. WICHITA, KANSAS			
Designed by	R.W.A.	checked by	R.A.S.
Drawn by	W.L.L.	Date	Oct., 1998
		Job No.	96940