

**SUMMARY OF QUANTITIES - SUPERSTRUCTURE (PER SPAN)**

SPAN	PRESTRESSED CONCRETE BEAM TYPE	ABUTMENT TO ABUTMENT							ABUTMENT TO STANDARD PIER							ABUTMENT TO STEPPED PIER						
		PRESTRESSED CONCRETE BEAMS (TYPE ①)	CONCRETE RAIL (TR3)	STRUCTURAL STEEL	CLASS AA CONCRETE	REINFORCING STEEL ②	(PL) FIXED BEARING ASSEMBLY ④	(PL) EXPANSION BEARING ASSEMBLY ④	PRESTRESSED CONCRETE BEAMS (TYPE ①)	CONCRETE RAIL (TR3)	STRUCTURAL STEEL	CLASS AA CONCRETE	REINFORCING STEEL ③	(PL) FIXED BEARING ASSEMBLY ④	(PL) FIXED OR EXPANSION BEARING ASSEMBLY ④	PRESTRESSED CONCRETE BEAMS (TYPE ①)	CONCRETE RAIL (TR3)	STRUCTURAL STEEL	CLASS AA CONCRETE	REINFORCING STEEL ③	(PL) FIXED BEARING ASSEMBLY ④	(PL) FIXED OR EXPANSION BEARING ASSEMBLY ④
		(LF)	(LF)	(LB)	(CY)	(LB)	(EA)	(EA)	(LF)	(LF)	(LB)	(CY)	(LB)	(EA)	(EA)	(LF)	(LF)	(LB)	(CY)	(LB)	(EA)	(EA)
30'	II	89.00	66.4	280	27.3	6,600	3	3	89.00	63.2	280	25.6	6,150	3	3	89.00	63.9	280	25.9	6,180	3	3
	B	89.00	66.4	290	27.2	6,600	3	3	89.00	63.2	290	25.5	6,140	3	3	89.00	63.9	290	25.8	6,170	3	3
35'	II	104.00	76.4	280	30.9	7,350	3	3	104.00	73.2	280	29.2	6,900	3	3	104.00	73.9	280	29.4	6,930	3	3
	B	104.00	76.4	290	30.7	7,340	3	3	104.00	73.2	290	29.0	6,890	3	3	104.00	73.9	290	29.3	6,920	3	3
40'	II	119.00	86.4	280	34.4	8,260	3	3	119.00	83.2	280	32.7	7,810	3	3	119.00	83.9	280	33.0	7,830	3	3
	B	119.00	86.4	290	34.2	8,250	3	3	119.00	83.2	290	32.5	7,800	3	3	119.00	83.9	290	32.8	7,820	3	3
45'	II	134.00	96.4	280	37.9	9,000	3	3	134.00	93.2	280	36.2	8,550	3	3	134.00	93.9	280	36.5	8,580	3	3
	B	134.00	96.4	290	37.8	9,000	3	3	134.00	93.2	290	36.1	8,550	3	3	134.00	93.9	290	36.4	8,580	3	3
50'	II	149.00	106.4	280	41.4	9,910	3	3	149.00	103.2	280	39.7	9,520	3	3	149.00	103.9	280	40.0	9,550	3	3
	B	149.00	106.4	290	41.3	9,900	3	3	149.00	103.2	290	39.6	9,510	3	3	149.00	103.9	290	39.9	9,540	3	3
55'	II	164.00	116.4	280	45.0	10,660	3	3	164.00	113.2	280	43.2	10,270	3	3	164.00	113.9	280	43.5	10,300	3	3
	B	164.00	116.4	290	44.8	10,650	3	3	164.00	113.2	290	43.1	10,260	3	3	164.00	113.9	290	43.4	10,290	3	3
60'	II	179.00	126.4	280	48.5	11,680	3	3	179.00	123.2	280	46.8	11,170	3	3	179.00	123.9	280	47.1	11,200	3	3
	C	179.00	126.4	290	49.0	11,690	3	3	179.00	123.2	290	47.3	11,180	3	3	179.00	123.9	290	47.6	11,210	3	3
65'	III	194.00	136.4	290	53.0	12,460	3	3	194.00	133.2	290	51.3	11,950	3	3	194.00	133.9	290	51.6	11,980	3	3
	C	194.00	136.4	290	52.6	12,440	3	3	194.00	133.2	290	50.9	11,930	3	3	194.00	133.9	290	51.2	11,960	3	3
70'	III	209.00	146.4	290	56.5	13,360	3	3	209.00	143.2	290	54.8	12,910	3	3	209.00	143.9	290	55.1	12,940	3	3
	C	209.00	146.4	290	56.1	13,350	3	3	209.00	143.2	290	54.4	12,900	3	3	209.00	143.9	290	54.7	12,920	3	3
75'	III	224.00	156.4	290	60.1	14,110	3	3	224.00	153.2	290	58.4	13,660	3	3	224.00	153.9	290	58.7	13,690	3	3
	C	224.00	156.4	290	59.7	14,100	3	3	224.00	153.2	290	58.0	13,650	3	3	224.00	153.9	290	58.3	13,680	3	3
80'	III	239.00	166.4	290	63.7	15,020	3	3	239.00	163.2	290	61.9	14,570	3	3	239.00	163.9	290	62.2	14,590	3	3
	IV	239.00	166.4	290	64.7	15,030	3	3	239.00	163.2	290	62.9	14,580	3	3	239.00	163.9	290	63.3	14,610	3	3
85'	III	254.00	176.4	290	67.2	15,760	3	3	254.00	173.2	290	65.5	15,310	3	3	254.00	173.9	290	65.8	15,340	3	3
	IV	254.00	176.4	290	68.3	15,780	3	3	254.00	173.2	290	66.5	15,330	3	3	254.00	173.9	290	66.8	15,360	3	3
90'	IV	269.00	186.4	290	71.9	16,690	3	3	269.00	183.2	290	70.1	16,240	3	3	269.00	183.9	290	70.4	16,260	3	3
95'	IV	284.00	196.4	290	75.4	17,430	3	3	284.00	193.2	290	73.7	16,980	3	3	284.00	193.9	290	74.0	17,010	3	3
100'	IV	299.00	206.4	290	80.1	18,340	3	3	299.00	203.2	290	78.4	17,890	3	3	299.00	203.9	290	78.7	17,920	3	3
105'	IV	314.00	216.4	380	83.7	19,220	3	3	314.00	213.2	380	82.0	18,770	3	3	314.00	213.9	380	82.3	18,800	3	3
110'	BT-72	329.00	226.4	750	98.2	21,250	3	3	329.00	223.2	750	96.4	20,860	3	3	329.00	223.9	750	96.7	20,880	3	3
	J	329.00	226.4	750	98.2	21,250	3	3	329.00	223.2	750	96.4	20,860	3	3	329.00	223.9	750	96.7	20,880	3	3
115'	BT-72	344.00	236.4	750	102.0	22,000	3	3	344.00	233.2	750	100.2	21,610	3	3	344.00	233.9	750	100.5	21,640	3	3
	J	344.00	236.4	750	102.0	22,000	3	3	344.00	233.2	750	100.2	21,610	3	3	344.00	233.9	750	100.5	21,640	3	3
120'	BT-72	359.00	246.4	750	105.8	23,020	3	3	359.00	243.2	750	104.0	22,510	3	3	359.00	243.9	750	104.4	22,540	3	3
	J	359.00	246.4	750	105.8	23,020	3	3	359.00	243.2	750	104.0	22,510	3	3	359.00	243.9	750	104.3	22,540	3	3
125'	J	374.00	256.4	750	109.6	23,770	3	3	374.00	253.2	750	107.8	23,260	3	3	374.00	253.9	750	108.1	23,290	3	3
130'	J	389.00	266.4	750	113.4	24,680	3	3	389.00	263.2	750	111.6	24,170	3	3	389.00	263.9	750	111.9	24,190	3	3
135'	J	404.00	276.4	750	117.2	25,420	3	3	404.00	273.2	750	115.4	24,910	3	3	404.00	273.9	750	115.7	24,940	3	3

① PRESTRESSED CONCRETE BEAM TYPE SHALL BE TYPE II, TYPE B, TYPE III, TYPE C, TYPE IV, TYPE 72 BT OR TYPE J BT AS APPLICABLE.

② QUANTITY INCLUDES PROVISION FOR LAP SPLICES REQUIRED IN THE LONGITUDINAL REINFORCING STEEL AS FOLLOWS:  
30' THRU 55' SPANS - NO LAP SPLICES  
60' THRU 115' SPANS - 1 LAP SPLICE  
120' THRU 135' SPANS - 2 LAP SPLICES

③ QUANTITY INCLUDES PROVISION FOR LAP SPLICES REQUIRED IN THE LONGITUDINAL REINFORCING STEEL AS FOLLOWS:  
30' THRU 45' SPANS - 1/2 LAP SPLICE  
50' THRU 65' SPANS - 1 LAP SPLICE  
70' THRU 105' SPANS - 1 1/2 LAP SPLICES  
110' THRU 135' SPANS - 2 LAP SPLICES  
LAP SPLICES ACCOUNT FOR ADJACENT SPAN COMBINATIONS AND ARE APPROXIMATE. PAYMENT FOR "REINFORCING STEEL" WILL BE BASED ON PLAN QUANTITY.

④ PROVIDE AND INSTALL FIXED OR EXPANSION BEARING ASSEMBLIES OF THE SIZE, SHAPE AND LOCATION AS DETAILED IN THE PLANS. SEE SUMMARY FOR THE ESTIMATED TOTAL AMOUNT OF STRUCTURAL STEEL PER EACH FIXED OR EXPANSION BEARING ASSEMBLY. ALL COST OF PROVIDING AND INSTALLING THE FIXED OR EXPANSION BEARING ASSEMBLIES INCLUDING THE COST OF STEEL REINFORCED ELASTOMERIC BEARING PADS, ANCHOR PLATES, CONTACT PLATES, CONTACT ANGLES, ANCHOR BOLTS, NUTS, WASHERS, MATERIAL, LABOR, EQUIPMENT AND INCIDENTALS SHALL BE INCLUDED IN THE UNIT PRICE BID PER EACH OF "FIXED BEARING ASSEMBLY" OR "EXPANSION BEARING ASSEMBLY."

**SUMMARY OF QUANTITIES - BEARING ASSEMBLY STRUCTURAL STEEL (PER EACH ASSEMBLY)**

PRESTRESSED CONCRETE BEAM TYPE	SPAN	FIXED OR EXPANSION BEARING ASSEMBLY
		(LB)
II AND B	30'	160
	35'	180
	40'	200
	45' THRU 60'	190
III AND C	60'	200
	65' THRU 85'	190
IV AND BT-72	80'	190
	85' AND 90'	190
	95' THRU 120'	190
J	110' THRU 135'	200

**SUMMARY OF QUANTITIES SEALED EXPANSION JOINT (PER EXPANSION JOINT)**

ITEM	UNIT	TOTAL
SEALED EXPANSION JOINT	LF	29.17

**NOTES**

QUANTITY CALCULATIONS ASSUME ALL PIERS ARE FIXED PIERS. ANY ADJUSTMENTS TO THE QUANTITIES OF "CONCRETE RAIL (TR3)", "CLASS AA CONCRETE" AND "REINFORCING STEEL" NECESSARY TO ACCOUNT FOR EXPANSION JOINT OPENINGS WITHIN THE BRIDGE ARE MINOR AND HAVE NOT BEEN CONSIDERED. PAYMENT FOR "CONCRETE RAIL (TR3)", "CLASS AA CONCRETE" AND "REINFORCING STEEL" WILL BE BASED ON PLAN QUANTITY.

APPROVED BY BRIDGE ENGINEER	<i>Robert A. Neach</i>	DATE	10/16/08
OKLAHOMA DEPARTMENT OF TRANSPORTATION COUNTY BRIDGE STANDARD (ENGLISH)			
<b>SUPERSTRUCTURE QUANTITIES</b>			
P.C. BEAMS			
(SHEET NO. 1 OF 2)			
<b>26' CLEAR ROADWAY - CONVENTIONAL - SKEWED 0°</b>			
1999 STANDARD SPECIFICATIONS	CB26-C-SKO-SPR-QUAN-PCB-1	006	CB-1906