

SUMMARY OF QUANTITIES - SUPERSTRUCTURE (PER SPAN)

SPAN	PRESTRESSED CONCRETE BEAM TYPE	STANDARD PIER TO STANDARD PIER						STANDARD PIER TO STEPPED PIER						STEPPED PIER TO STEPPED PIER					
		PRESTRESSED CONCRETE BEAMS (TYPE ①) (LF)	CONCRETE RAIL (TR3) (LF)	STRUCTURAL STEEL (LB)	CLASS AA CONCRETE (CY)	REINFORCING STEEL ② (LB)	(PL) FIXED OR EXPANSION BEARING ASSEMBLY ③ (EA)	PRESTRESSED CONCRETE BEAMS (TYPE ①) (LF)	CONCRETE RAIL (TR3) (LF)	STRUCTURAL STEEL (LB)	CLASS AA CONCRETE (CY)	REINFORCING STEEL ② (LB)	(PL) FIXED OR EXPANSION BEARING ASSEMBLY ③ (EA)	PRESTRESSED CONCRETE BEAMS (TYPE ①) (LF)	CONCRETE RAIL (TR3) (LF)	STRUCTURAL STEEL (LB)	CLASS AA CONCRETE (CY)	REINFORCING STEEL ② (LB)	(PL) FIXED OR EXPANSION BEARING ASSEMBLY ③ (EA)
30'	II	89.00	60.0	320	24.2	8,280	6	89.00	62.4	320	25.2	8,530	6	89.00	64.7	320	26.2	8,720	6
	B	89.00	60.0	320	24.1	8,270	6	89.00	62.4	320	25.1	8,520	6	89.00	64.7	320	26.1	8,710	6
35'	II	104.00	70.0	320	27.7	9,080	6	104.00	72.4	320	28.8	9,270	6	104.00	74.7	320	29.8	9,470	6
	B	104.00	70.0	320	27.6	9,070	6	104.00	72.4	320	28.6	9,270	6	104.00	74.7	320	29.6	9,460	6
40'	II	119.00	80.0	320	31.3	9,980	6	119.00	82.4	320	32.3	10,180	6	119.00	84.7	320	33.3	10,370	6
	B	119.00	80.0	320	31.1	9,980	6	119.00	82.4	320	32.1	10,170	6	119.00	84.7	320	33.1	10,360	6
45'	II	134.00	90.0	320	34.8	10,730	6	134.00	92.4	320	35.8	10,930	6	134.00	94.7	320	36.8	11,120	6
	B	134.00	90.0	320	34.6	10,720	6	134.00	92.4	320	35.6	10,920	6	134.00	94.7	320	36.7	11,120	6
50'	II	149.00	100.0	320	38.3	11,700	6	149.00	102.4	320	39.3	11,890	6	149.00	104.7	320	40.3	12,090	6
	B	149.00	100.0	320	38.2	11,690	6	149.00	102.4	320	39.2	11,890	6	149.00	104.7	320	40.2	12,080	6
55'	II	164.00	110.0	320	41.8	12,450	6	164.00	112.4	320	42.8	12,640	6	164.00	114.7	320	43.9	12,840	6
	B	164.00	110.0	320	41.7	12,440	6	164.00	112.4	320	42.7	12,630	6	164.00	114.7	320	43.7	12,830	6
60'	II	179.00	120.0	320	45.4	13,350	6	179.00	122.4	320	46.4	13,550	6	179.00	124.7	320	47.4	13,740	6
	C	179.00	120.0	320	45.9	13,350	6	179.00	122.4	320	47.0	13,550	6	179.00	124.7	320	48.1	13,740	6
65'	III	194.00	130.0	320	49.9	14,110	6	194.00	132.4	320	51.0	14,310	6	194.00	134.7	320	52.0	14,500	6
	C	194.00	130.0	320	49.5	14,100	6	194.00	132.4	320	50.5	14,290	6	194.00	134.7	320	51.6	14,490	6
70'	III	209.00	140.0	320	53.5	15,080	6	209.00	142.4	320	54.5	15,280	6	209.00	144.7	320	55.6	15,470	6
	C	209.00	140.0	320	53.0	15,060	6	209.00	142.4	320	54.1	15,260	6	209.00	144.7	320	55.1	15,450	6
75'	III	224.00	150.0	320	57.0	15,830	6	224.00	152.4	320	58.1	16,020	6	224.00	154.7	320	59.1	16,220	6
	C	224.00	150.0	320	56.6	15,810	6	224.00	152.4	320	57.6	16,010	6	224.00	154.7	320	58.7	16,200	6
80'	III	239.00	160.0	320	60.6	16,730	6	239.00	162.4	320	61.6	16,930	6	239.00	164.7	320	62.7	17,120	6
	IV	239.00	160.0	320	61.6	16,750	6	239.00	162.4	320	63.0	16,940	6	239.00	164.7	320	63.5	17,140	6
85'	III	254.00	170.0	320	64.1	17,480	6	254.00	172.4	320	65.2	17,670	6	254.00	174.7	320	66.2	17,870	6
	IV	254.00	170.0	320	65.2	17,500	6	254.00	172.4	320	66.6	17,690	6	254.00	174.7	320	67.1	17,890	6
90'	IV	269.00	180.0	320	68.8	18,400	6	269.00	182.4	320	70.2	18,600	6	269.00	184.7	320	70.7	18,790	6
95'	IV	284.00	190.0	320	72.4	19,150	6	284.00	192.4	320	73.8	19,350	6	284.00	194.7	320	74.3	19,540	6
100'	IV	299.00	200.0	320	76.0	20,060	6	299.00	202.4	320	77.4	20,250	6	299.00	204.7	320	77.9	20,450	6
105'	IV	314.00	210.0	420	80.7	21,000	6	314.00	212.4	420	82.1	21,200	6	314.00	214.7	420	82.6	21,390	6
110'	BT-72	329.00	220.0	840	95.8	23,140	6	329.00	222.4	840	97.0	23,340	6	329.00	224.7	840	98.2	23,530	6
	J	329.00	220.0	840	95.8	23,140	6	329.00	222.4	840	97.0	23,340	6	329.00	224.7	840	98.2	23,530	6
115'	BT-72	344.00	230.0	840	99.6	23,890	6	344.00	232.4	840	100.8	24,080	6	344.00	234.7	840	102.0	24,280	6
	J	344.00	230.0	840	99.6	23,890	6	344.00	232.4	840	100.8	24,080	6	344.00	234.7	840	102.0	24,280	6
120'	BT-72	359.00	240.0	840	103.4	24,790	6	359.00	242.4	840	104.6	24,990	6	359.00	244.7	840	105.8	25,180	6
	J	359.00	240.0	840	103.4	24,790	6	359.00	242.4	840	104.6	24,990	6	359.00	244.7	840	105.8	25,180	6
125'	J	374.00	250.0	840	107.2	25,540	6	374.00	252.4	840	108.4	25,740	6	374.00	254.7	840	109.6	25,930	6
130'	J	389.00	260.0	840	111.0	26,450	6	389.00	262.4	840	112.2	26,640	6	389.00	264.7	840	113.4	26,840	6
135'	J	404.00	270.0	840	114.8	27,200	6	404.00	272.4	840	116.0	27,390	6	404.00	274.7	840	117.2	27,590	6

- 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 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.
- ③ 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."

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 J. Rusch</i>	DATE	10/16/08
OKLAHOMA DEPARTMENT OF TRANSPORTATION COUNTY BRIDGE STANDARD (ENGLISH)			
SUPERSTRUCTURE QUANTITIES			
P.C. BEAMS			
(SHEET NO. 2 OF 2)			
26' CLEAR ROADWAY - CONVENTIONAL - SKEWED 30°			
1999 STANDARD SPECIFICATIONS	CB26-C-SK30-SPR-QUAN-PCB-2	00E	CB-255E