

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	118.67	60.0	370	29.8	6,440	8	118.67	60.7	370	30.2	6,470	8	118.67	61.4	370	30.5	6,510	8
	B	118.67	60.0	370	29.6	6,430	8	118.67	60.7	370	30.0	6,460	8	118.67	61.4	370	30.3	6,500	8
35'	II	138.67	70.0	370	34.2	7,280	8	138.67	70.7	370	34.5	7,320	8	138.67	71.4	370	34.9	7,350	8
	B	138.67	70.0	370	34.0	7,270	8	138.67	70.7	370	34.3	7,310	8	138.67	71.4	370	34.7	7,340	8
40'	II	158.67	80.0	370	38.5	8,280	8	158.67	80.7	370	38.9	8,310	8	158.67	81.4	370	39.3	8,340	8
	B	158.67	80.0	370	38.4	8,270	8	158.67	80.7	370	38.7	8,300	8	158.67	81.4	370	39.1	8,330	8
45'	II	178.67	90.0	370	42.9	9,120	8	178.67	90.7	370	43.3	9,150	8	178.67	91.4	370	43.6	9,180	8
	B	178.67	90.0	370	42.7	9,110	8	178.67	90.7	370	43.1	9,140	8	178.67	91.4	370	43.4	9,170	8
50'	II	198.67	100.0	370	47.3	10,190	8	198.67	100.7	370	47.6	10,220	8	198.67	101.4	370	48.0	10,250	8
	B	198.67	100.0	370	47.1	10,180	8	198.67	100.7	370	47.4	10,210	8	198.67	101.4	370	47.8	10,240	8
55'	II	218.67	110.0	370	51.6	11,020	8	218.67	110.7	370	52.0	11,050	8	218.67	111.4	370	52.3	11,090	8
	B	218.67	110.0	370	51.4	11,010	8	218.67	110.7	370	51.8	11,040	8	218.67	111.4	370	52.1	11,080	8
60'	II	238.67	120.0	370	56.0	12,020	8	238.67	120.7	370	56.3	12,050	8	238.67	121.4	370	56.7	12,090	8
	C	238.67	120.0	370	56.7	12,030	8	238.67	120.7	370	57.1	12,060	8	238.67	121.4	370	57.4	12,100	8
65'	II	258.67	130.0	370	60.3	12,860	8	258.67	130.7	370	60.7	12,890	8	258.67	131.4	370	61.0	12,920	8
	C	258.67	130.0	370	61.1	12,870	8	258.67	130.7	370	61.4	12,910	8	258.67	131.4	370	61.8	12,940	8
70'	III	278.67	140.0	370	66.0	13,960	8	278.67	140.7	370	66.4	13,990	8	278.67	141.4	370	66.8	14,030	8
	C	278.67	140.0	370	65.5	13,940	8	278.67	140.7	370	65.8	13,970	8	278.67	141.4	370	66.2	14,010	8
75'	III	298.67	150.0	370	70.4	14,800	8	298.67	150.7	370	70.8	14,840	8	298.67	151.4	370	71.2	14,870	8
	C	298.67	150.0	370	69.8	14,780	8	298.67	150.7	370	70.2	14,810	8	298.67	151.4	370	70.6	14,840	8
80'	III	318.67	160.0	370	74.8	15,800	8	318.67	160.7	370	75.2	15,830	8	318.67	161.4	370	75.6	15,860	8
	C	318.67	160.0	370	74.2	15,780	8	318.67	160.7	370	74.6	15,810	8	318.67	161.4	370	75.0	15,840	8
85'	III	338.67	170.0	370	79.2	16,630	8	338.67	170.7	370	79.6	16,670	8	338.67	171.4	370	80.0	16,690	8
	IV	338.67	170.0	370	80.5	16,650	8	338.67	170.7	370	80.9	16,690	8	338.67	171.4	370	81.3	16,720	8
90'	III	358.67	180.0	370	83.6	17,630	8	358.67	180.7	370	84.0	17,660	8	358.67	181.4	370	84.4	17,700	8
	IV	358.67	180.0	370	85.0	17,650	8	358.67	180.7	370	85.4	17,680	8	358.67	181.4	370	85.8	17,720	8
95'	IV	378.67	190.0	370	89.5	18,490	8	378.67	190.7	370	89.8	18,520	8	378.67	191.4	370	90.2	18,560	8
100'	IV	398.67	200.0	370	93.9	19,490	8	398.67	200.7	370	94.3	19,520	8	398.67	201.4	370	94.7	19,550	8
105'	IV	418.67	210.0	500	99.8	20,510	8	418.67	210.7	500	100.2	20,540	8	418.67	211.4	500	100.6	20,570	8
110'	IV	438.67	220.0	500	104.3	21,580	8	438.67	220.7	500	104.7	21,610	8	438.67	221.4	500	105.1	21,640	8
115'	IV	458.67	230.0	500	108.7	22,420	8	458.67	230.7	500	109.1	22,450	8	458.67	231.4	500	109.5	22,480	8
120'	BT-72	478.67	240.0	980	128.1	24,900	8	478.67	240.7	980	128.5	24,940	8	478.67	241.4	980	128.9	24,970	8
	J	478.67	240.0	980	128.1	24,900	8	478.67	240.7	980	128.5	24,940	8	478.67	241.4	980	128.9	24,970	8
125'	BT-72	498.67	250.0	980	132.8	25,740	8	498.67	250.7	980	133.2	25,780	8	498.67	251.4	980	133.7	25,810	8
	J	498.67	250.0	980	132.8	25,740	8	498.67	250.7	980	133.2	25,780	8	498.67	251.4	980	133.7	25,810	8
130'	BT-72	518.67	260.0	980	137.5	26,740	8	518.67	260.7	980	138.0	26,770	8	518.67	261.4	980	138.4	26,800	8
	J	518.67	260.0	980	137.5	26,740	8	518.67	260.7	980	138.0	26,770	8	518.67	261.4	980	138.4	26,800	8
135'	J	538.67	270.0	980	142.3	27,580	8	538.67	270.7	980	142.7	27,610	8	538.67	271.4	980	143.1	27,640	8
140'	J	558.67	280.0	980	147.0	28,570	8	558.67	280.7	980	147.4	28,600	8	558.67	281.4	980	147.8	28,640	8
145'	J	578.67	290.0	980	151.7	29,410	8	578.67	290.7	980	152.1	29,450	8	578.67	291.4	980	152.6	29,480	8

- 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 145' 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)			
32' CLEAR ROADWAY - CONVENTIONAL - SKEWED 0°			
1999 STANDARD SPECIFICATIONS	CB32-C-SKO-SPR-QUAN-PCB-2	006	CB-566E