

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) 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) 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	118.67	66.4	370	34.0	7,440	4	4	118.67	63.2	370	31.9	6,930	4	4	118.67	63.9	370	32.2	6,960	4	4
	B	118.67	66.4	370	33.8	7,430	4	4	118.67	63.2	370	31.7	6,920	4	4	118.67	63.9	370	32.1	6,950	4	4
35'	II	138.67	76.4	370	38.3	8,280	4	4	138.67	73.2	370	36.2	7,770	4	4	138.67	73.9	370	36.6	7,800	4	4
	B	138.67	76.4	370	38.1	8,270	4	4	138.67	73.2	370	36.1	7,760	4	4	138.67	73.9	370	36.4	7,790	4	4
40'	II	158.67	86.4	370	42.7	9,270	4	4	158.67	83.2	370	40.6	8,760	4	4	158.67	83.9	370	41.0	8,790	4	4
	B	158.67	86.4	370	42.5	9,260	4	4	158.67	83.2	370	40.4	8,750	4	4	158.67	83.9	370	40.8	8,780	4	4
45'	II	178.67	96.4	370	47.0	10,110	4	4	178.67	93.2	370	45.0	9,600	4	4	178.67	93.9	370	45.3	9,640	4	4
	B	178.67	96.4	370	46.9	10,100	4	4	178.67	93.2	370	44.8	9,590	4	4	178.67	93.9	370	45.1	9,630	4	4
50'	II	198.67	106.4	370	51.4	11,110	4	4	198.67	103.2	370	49.3	10,670	4	4	198.67	103.9	370	49.7	10,700	4	4
	B	198.67	106.4	370	51.2	11,100	4	4	198.67	103.2	370	49.1	10,660	4	4	198.67	103.9	370	49.5	10,690	4	4
55'	II	218.67	116.4	370	55.8	11,950	4	4	218.67	113.2	370	53.7	11,510	4	4	218.67	113.9	370	54.0	11,540	4	4
	B	218.67	116.4	370	55.6	11,940	4	4	218.67	113.2	370	53.5	11,500	4	4	218.67	113.9	370	53.9	11,530	4	4
60'	II	238.67	126.4	370	60.1	12,940	4	4	238.67	123.2	370	58.0	12,510	4	4	238.67	123.9	370	58.4	12,540	4	4
	C	238.67	126.4	370	60.9	13,100	4	4	238.67	123.2	370	58.8	12,520	4	4	238.67	123.9	370	59.1	12,550	4	4
65'	II	258.67	136.4	370	64.5	13,930	4	4	258.67	133.2	370	62.4	13,340	4	4	258.67	133.9	370	62.8	13,380	4	4
	C	258.67	136.4	370	65.2	13,940	4	4	258.67	133.2	370	63.2	13,350	4	4	258.67	133.9	370	63.5	13,390	4	4
70'	III	278.67	146.4	370	70.2	14,960	4	4	278.67	143.2	370	68.1	14,450	4	4	278.67	143.9	370	68.5	14,480	4	4
	C	278.67	146.4	370	69.6	14,940	4	4	278.67	143.2	370	67.5	14,430	4	4	278.67	143.9	370	67.9	14,460	4	4
75'	III	298.67	156.4	370	74.6	15,800	4	4	298.67	153.2	370	72.5	15,290	4	4	298.67	153.9	370	72.9	15,320	4	4
	C	298.67	156.4	370	74.0	15,770	4	4	298.67	153.2	370	71.9	15,260	4	4	298.67	153.9	370	72.3	15,300	4	4
80'	III	318.67	166.4	370	79.0	16,790	4	4	318.67	163.2	370	76.9	16,280	4	4	318.67	163.9	370	77.3	16,310	4	4
	C	318.67	166.4	370	78.4	16,770	4	4	318.67	163.2	370	76.3	16,260	4	4	318.67	163.9	370	76.7	16,290	4	4
85'	III	338.67	176.4	370	83.4	17,630	4	4	338.67	173.2	370	81.3	17,120	4	4	338.67	173.9	370	81.7	17,150	4	4
	IV	338.67	176.4	370	84.8	17,650	4	4	338.67	173.2	370	82.7	17,140	4	4	338.67	173.9	370	83.0	17,170	4	4
90'	III	358.67	186.4	370	87.8	18,630	4	4	358.67	183.2	370	85.7	18,120	4	4	358.67	183.9	370	86.1	18,150	4	4
	IV	358.67	186.4	370	89.2	18,650	4	4	358.67	183.2	370	87.1	18,140	4	4	358.67	183.9	370	87.5	18,170	4	4
95'	IV	378.67	196.4	370	93.7	19,490	4	4	378.67	193.2	370	91.6	18,970	4	4	378.67	193.9	370	91.9	19,010	4	4
100'	IV	398.67	206.4	370	98.1	20,480	4	4	398.67	203.2	370	96.0	19,970	4	4	398.67	203.9	370	96.4	20,000	4	4
105'	IV	418.67	216.4	500	104.0	21,500	4	4	418.67	213.2	500	101.9	20,990	4	4	418.67	213.9	500	102.3	21,030	4	4
110'	IV	438.67	226.4	500	108.5	22,500	4	4	438.67	223.2	500	106.4	22,060	4	4	438.67	223.9	500	106.8	22,100	4	4
115'	IV	458.67	236.4	500	112.9	23,340	4	4	458.67	233.2	500	110.8	22,900	4	4	458.67	233.9	500	111.2	22,940	4	4
120'	BT-72	478.67	246.4	980	132.4	25,970	4	4	478.67	243.2	980	130.2	25,390	4	4	478.67	243.9	980	130.6	25,420	4	4
	J	478.67	246.4	980	132.3	25,970	4	4	478.67	243.2	980	130.2	25,390	4	4	478.67	243.9	980	130.6	25,420	4	4
125'	BT-72	498.67	256.4	980	137.1	26,810	4	4	498.67	253.2	980	134.9	26,230	4	4	498.67	253.9	980	135.4	26,260	4	4
	J	498.67	256.4	980	137.1	26,810	4	4	498.67	253.2	980	134.9	26,230	4	4	498.67	253.9	980	135.4	26,260	4	4
130'	BT-72	518.67	266.4	980	141.8	27,810	4	4	518.67	263.2	980	139.7	27,220	4	4	518.67	263.9	980	140.1	27,250	4	4
	J	518.67	266.4	980	141.8	27,810	4	4	518.67	263.2	980	139.7	27,220	4	4	518.67	263.9	980	140.1	27,250	4	4
135'	J	538.67	276.4	980	146.5	28,650	4	4	538.67	273.2	980	144.4	28,060	4	4	538.67	273.9	980	144.8	28,100	4	4
140'	J	558.67	286.4	980	151.3	29,640	4	4	558.67	283.2	980	149.1	29,060	4	4	558.67	283.9	980	149.6	29,090	4	4
145'	J	578.67	296.4	980	156.0	30,480	4	4	578.67	293.2	980	153.9	29,900	4	4	578.67	293.9	980	154.3	29,930	4	4

- 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 SPLICE
60' THRU 115' SPANS - 1 LAP SPLICE
120' THRU 145' 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 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.
- 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' AND 35'	160
	40'	170
	45'	190
	50'	200
	55' THRU 65'	190
III AND C	60'	180
	65'	190
	70'	190
	75'	200
	80' THRU 90'	190
IV AND BT-72	85'	190
	90' AND 95'	190
	100' THRU 130'	190
J	120' THRU 145'	200

SUMMARY OF QUANTITIES SEALED EXPANSION JOINT (PER EXPANSION JOINT)

ITEM	UNIT	TOTAL
SEALED EXPANSION JOINT	LF	35.17

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. Nuss</i>	DATE	10/16/08
OKLAHOMA DEPARTMENT OF TRANSPORTATION COUNTY BRIDGE STANDARD (ENGLISH)			
SUPERSTRUCTURE QUANTITIES			
P.C. BEAMS			
(SHEET NO. 1 OF 2)			
32' CLEAR ROADWAY - CONVENTIONAL - SKEWED 0°			
1999 STANDARD SPECIFICATIONS	CB32-C-SKO-SPR-QUAN-PCB-1	00E	