

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) EXPANSION BEARING ASSEMBLY ③ (EA)	(PL) ELASTOMERIC BEARING PADS ④ (EA)	PRESTRESSED CONCRETE BEAMS (TYPE ①) (LF)	CONCRETE RAIL (TR3) (LF)	STRUCTURAL STEEL (LB)	CLASS AA CONCRETE (CY)	REINFORCING STEEL ② (LB)	(PL) EXPANSION BEARING ASSEMBLY ③ (EA)	(PL) ELASTOMERIC BEARING PADS ④ (EA)	PRESTRESSED CONCRETE BEAMS (TYPE ①) (LF)	CONCRETE RAIL (TR3) (LF)	STRUCTURAL STEEL (LB)	CLASS AA CONCRETE (CY)	REINFORCING STEEL ② (LB)	(PL) EXPANSION BEARING ASSEMBLY ③ (EA)	(PL) ELASTOMERIC BEARING PADS ④ (EA)
30'	II	118.67	60.0	370	29.3	9,610	8	8	118.67	60.7	370	29.5	9,640	8	8	118.67	61.4	370	29.8	9,680	8	8
	B	118.67	60.0	370	29.1	9,600	8	8	118.67	60.7	370	29.3	9,630	8	8	118.67	61.4	370	29.6	9,670	8	8
35'	II	138.67	70.0	370	33.6	10,450	8	8	138.67	70.7	370	33.9	10,490	8	8	138.67	71.4	370	34.2	10,520	8	8
	B	138.67	70.0	370	33.4	10,440	8	8	138.67	70.7	370	33.7	10,470	8	8	138.67	71.4	370	34.0	10,500	8	8
40'	II	158.67	80.0	370	38.0	11,450	8	8	158.67	80.7	370	38.3	11,480	8	8	158.67	81.4	370	38.5	11,510	8	8
	B	158.67	80.0	370	37.8	11,440	8	8	158.67	80.7	370	38.1	11,470	8	8	158.67	81.4	370	38.4	11,500	8	8
45'	II	178.67	90.0	370	42.3	12,280	8	8	178.67	90.7	370	42.6	12,320	8	8	178.67	91.4	370	42.9	12,350	8	8
	B	178.67	90.0	370	42.1	12,270	8	8	178.67	90.7	370	42.4	12,310	8	8	178.67	91.4	370	42.7	12,340	8	8
50'	II	198.67	100.0	370	46.7	13,360	8	8	198.67	100.7	370	47.0	13,390	8	8	198.67	101.4	370	47.3	13,420	8	8
	B	198.67	100.0	370	46.5	13,340	8	8	198.67	100.7	370	46.8	13,380	8	8	198.67	101.4	370	47.1	13,410	8	8
55'	II	218.67	110.0	370	51.0	14,190	8	8	218.67	110.7	370	51.3	14,230	8	8	218.67	111.4	370	51.6	14,260	8	8
	B	218.67	110.0	370	50.9	14,180	8	8	218.67	110.7	370	51.1	14,220	8	8	218.67	111.4	370	51.4	14,250	8	8
60'	II	238.67	120.0	370	55.4	15,190	8	8	238.67	120.7	370	55.7	15,220	8	8	238.67	121.4	370	56.0	15,260	8	8
	C	238.67	120.0	370	56.1	15,470	8	8	238.67	120.7	370	56.4	15,500	8	8	238.67	121.4	370	56.6	15,540	8	8
65'	II	258.67	130.0	370	61.8	16,060	8	8	258.67	130.7	370	62.1	16,060	8	8	258.67	131.4	370	62.3	16,090	8	8
	C	258.67	130.0	370	60.5	16,310	8	8	258.67	130.7	370	60.7	16,340	8	8	258.67	131.4	370	61.0	16,370	8	8
70'	III	278.67	140.0	370	65.4	17,400	8	8	278.67	140.7	370	65.7	17,430	8	8	278.67	141.4	370	66.0	17,460	8	8
	C	278.67	140.0	370	64.8	17,380	8	8	278.67	140.7	370	65.1	17,410	8	8	278.67	141.4	370	65.4	17,450	8	8
75'	III	298.67	150.0	370	69.8	18,240	8	8	298.67	150.7	370	70.1	18,270	8	8	298.67	151.4	370	70.4	18,300	8	8
	C	298.67	150.0	370	69.2	18,220	8	8	298.67	150.7	370	69.5	18,250	8	8	298.67	151.4	370	69.8	18,280	8	8
80'	III	318.67	160.0	370	74.2	19,230	8	8	318.67	160.7	370	74.5	19,260	8	8	318.67	161.4	370	74.8	19,300	8	8
	C	318.67	160.0	370	73.6	19,220	8	8	318.67	160.7	370	73.9	19,250	8	8	318.67	161.4	370	74.2	19,280	8	8
85'	III	338.67	170.0	370	78.6	20,070	8	8	338.67	170.7	370	78.9	20,110	8	8	338.67	171.4	370	79.2	20,140	8	8
	IV	338.67	170.0	370	80.1	20,560	8	8	338.67	170.7	370	80.4	20,600	8	8	338.67	171.4	370	80.7	20,630	8	8
90'	III	358.67	180.0	370	84.0	21,070	8	8	358.67	180.7	370	84.3	21,100	8	8	358.67	181.4	370	84.6	21,130	8	8
	IV	358.67	180.0	370	84.6	21,560	8	8	358.67	180.7	370	84.9	21,590	8	8	358.67	181.4	370	85.2	21,630	8	8
95'	IV	378.67	190.0	370	89.0	22,400	8	8	378.67	190.7	370	89.3	22,430	8	8	378.67	191.4	370	89.6	22,460	8	8
100'	IV	398.67	200.0	370	93.5	23,400	8	8	398.67	200.7	370	93.8	23,430	8	8	398.67	201.4	370	94.1	23,460	8	8
105'	IV	418.67	210.0	500	99.4	24,420	8	8	418.67	210.7	500	99.7	24,450	8	8	418.67	211.4	500	100.0	24,480	8	8
110'	IV	438.67	220.0	500	103.9	25,490	8	8	438.67	220.7	500	104.2	25,520	8	8	438.67	221.4	500	104.4	25,550	8	8
115'	IV	458.67	230.0	500	108.3	26,330	8	8	458.67	230.7	500	108.6	26,360	8	8	458.67	231.4	500	108.9	26,390	8	8
120'	BT-72	478.67	240.0	980	126.4	28,760	8	8	478.67	240.7	980	126.7	28,790	8	8	478.67	241.4	980	126.9	28,830	8	8
	J	478.67	240.0	980	126.4	28,760	8	8	478.67	240.7	980	126.7	28,790	8	8	478.67	241.4	980	126.9	28,830	8	8
125'	BT-72	498.67	250.0	980	131.1	29,600	8	8	498.67	250.7	980	131.4	29,630	8	8	498.67	251.4	980	131.7	29,660	8	8
	J	498.67	250.0	980	131.1	29,600	8	8	498.67	250.7	980	131.4	29,630	8	8	498.67	251.4	980	131.7	29,660	8	8
130'	BT-72	518.67	260.0	980	135.8	30,590	8	8	518.67	260.7	980	136.1	30,630	8	8	518.67	261.4	980	136.4	30,660	8	8
	J	518.67	260.0	980	135.8	30,590	8	8	518.67	260.7	980	136.1	30,630	8	8	518.67	261.4	980	136.4	30,660	8	8
135'	J	538.67	270.0	980	140.6	31,430	8	8	538.67	270.7	980	140.9	31,470	8	8	538.67	271.4	980	141.1	31,500	8	8
140'	J	558.67	280.0	980	145.3	32,430	8	8	558.67	280.7	980	145.6	32,460	8	8	558.67	281.4	980	145.9	32,500	8	8
145'	J	578.67	290.0	980	150.0	33,270	8	8	578.67	290.7	980	150.3	33,300	8	8	578.67	291.4	980	150.6	33,330	8	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 AT THE PIERS, PROVIDE AND INSTALL 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 EXPANSION BEARING ASSEMBLY. ALL COST OF PROVIDING AND INSTALLING THE 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 "EXPANSION BEARING ASSEMBLY."
- ④ PROVIDE AND INSTALL ELASTOMERIC BEARING PADS BETWEEN THE TOP SURFACE OF THE P.C. BEAMS AND THE BOTTOM SURFACE OF THE DECK SLAB. THE ELASTOMERIC BEARING PADS ARE TO BE OF THE SIZE AND SHAPE AS DETAILED IN THE PLANS AND LOCATED AT EACH BEAM END ABOVE THE PIERS. ALL COST OF PROVIDING AND INSTALLING THE ELASTOMERIC BEARING PADS INCLUDING THE COST OF ELASTOMERIC BEARING PADS, MATERIAL, LABOR, EQUIPMENT AND INCIDENTALS SHALL BE INCLUDED IN THE UNIT PRICE BID PER EACH OF "ELASTOMERIC BEARING PADS."

APPROVED BY BRIDGE ENGINEER *Robert J. Nuss* 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 - INTEGRAL - SKEWED 0°

1999 STANDARD SPECIFICATIONS CB32-I-SKO-SPR-QUAN-PCB-2 OOE CB-899E