

**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)	SAW-CUT GROOVING (SY)	CONCRETE RAIL (TR3) (LF)	STRUCTURAL STEEL (LB)	WEATHERING STEEL FIXED OR EXPANSION BEARING ASSEMBLY ② (EA)	CLASS AA CONCRETE (CY)	REINFORCING STEEL ③ (LB)	PRESTRESSED CONCRETE BEAMS (TYPE ①) (LF)	SAW-CUT GROOVING (SY)	CONCRETE RAIL (TR3) (LF)	STRUCTURAL STEEL (LB)	WEATHERING STEEL FIXED OR EXPANSION BEARING ASSEMBLY ② (EA)	CLASS AA CONCRETE (CY)	REINFORCING STEEL ③ (LB)	PRESTRESSED CONCRETE BEAMS (TYPE ①) (LF)	SAW-CUT GROOVING (SY)	CONCRETE RAIL (TR3) (LF)	STRUCTURAL STEEL (LB)	WEATHERING STEEL FIXED OR EXPANSION BEARING ASSEMBLY ② (EA)	CLASS AA CONCRETE (CY)	REINFORCING STEEL ③ (LB)
30'	II	118.67	90.3	60.0	370	8	29.8	6,440	118.67	91.3	60.7	370	8	30.2	6,470	118.67	92.3	61.4	370	8	30.5	6,510
	B	118.67	90.3	60.0	370	8	29.6	6,430	118.67	91.3	60.7	370	8	30.0	6,460	118.67	92.3	61.4	370	8	30.3	6,500
35'	II	138.67	105.8	70.0	370	8	34.2	7,280	138.67	106.9	70.7	370	8	34.5	7,320	138.67	107.9	71.4	370	8	34.9	7,350
	B	138.67	105.8	70.0	370	8	34.0	7,270	138.67	106.9	70.7	370	8	34.3	7,310	138.67	107.9	71.4	370	8	34.7	7,340
40'	II	158.67	121.4	80.0	370	8	38.5	8,280	158.67	122.4	80.7	370	8	38.9	8,310	158.67	123.5	81.4	370	8	39.3	8,340
	B	158.67	121.4	80.0	370	8	38.4	8,270	158.67	122.4	80.7	370	8	38.7	8,300	158.67	123.5	81.4	370	8	39.1	8,330
45'	II	178.67	136.9	90.0	370	8	42.9	9,120	178.67	138.0	90.7	370	8	43.3	9,150	178.67	139.0	91.4	370	8	43.6	9,180
	B	178.67	136.9	90.0	370	8	42.7	9,110	178.67	138.0	90.7	370	8	43.1	9,140	178.67	139.0	91.4	370	8	43.4	9,170
50'	II	198.67	152.5	100.0	370	8	47.3	10,190	198.67	153.5	100.7	370	8	47.6	10,220	198.67	154.6	101.4	370	8	48.0	10,250
	B	198.67	152.5	100.0	370	8	47.1	10,180	198.67	153.5	100.7	370	8	47.4	10,210	198.67	154.6	101.4	370	8	47.8	10,240
55'	II	218.67	168.0	110.0	370	8	51.6	11,020	218.67	169.1	110.7	370	8	52.0	11,060	218.67	170.1	111.4	370	8	52.3	11,090
	B	218.67	168.0	110.0	370	8	51.4	11,010	218.67	169.1	110.7	370	8	51.8	11,050	218.67	170.1	111.4	370	8	52.1	11,080
60'	II	238.67	183.6	120.0	370	8	56.0	12,020	238.67	184.6	120.7	370	8	56.3	12,050	238.67	185.7	121.4	370	8	56.7	12,090
	C	238.67	183.6	120.0	370	8	56.7	12,030	238.67	184.6	120.7	370	8	57.1	12,060	238.67	185.7	121.4	370	8	57.4	12,100
65'	II	258.67	199.2	130.0	370	8	60.3	12,860	258.67	200.2	130.7	370	8	60.7	12,890	258.67	201.2	131.4	370	8	61.0	12,920
	C	258.67	199.2	130.0	370	8	61.1	12,870	258.67	200.2	130.7	370	8	61.4	12,910	258.67	201.2	131.4	370	8	61.8	12,940
70'	III	278.67	214.7	140.0	370	8	66.0	13,960	278.67	215.8	140.7	370	8	66.4	13,990	278.67	216.8	141.4	370	8	66.8	14,030
	C	278.67	214.7	140.0	370	8	65.5	13,940	278.67	215.8	140.7	370	8	65.8	13,970	278.67	216.8	141.4	370	8	66.2	14,010
75'	III	298.67	230.3	150.0	370	8	70.4	14,800	298.67	231.3	150.7	370	8	70.8	14,840	298.67	232.3	151.4	370	8	71.2	14,870
	C	298.67	230.3	150.0	370	8	69.8	14,780	298.67	231.3	150.7	370	8	70.2	14,810	298.67	232.3	151.4	370	8	70.6	14,840
80'	III	318.67	245.8	160.0	370	8	74.8	15,800	318.67	246.9	160.7	370	8	75.2	15,830	318.67	247.9	161.4	370	8	75.6	15,860
	C	318.67	245.8	160.0	370	8	74.2	15,780	318.67	246.9	160.7	370	8	74.6	15,810	318.67	247.9	161.4	370	8	75.0	15,840
85'	III	338.67	261.4	170.0	370	8	79.2	16,630	338.67	262.4	170.7	370	8	79.6	16,670	338.67	263.5	171.4	370	8	80.0	16,700
	IV	338.67	261.4	170.0	370	8	80.5	16,650	338.67	262.4	170.7	370	8	80.9	16,690	338.67	263.5	171.4	370	8	81.3	16,720
90'	III	358.67	276.9	180.0	370	8	83.6	17,630	358.67	278.0	180.7	370	8	84.0	17,660	358.67	279.0	181.4	370	8	84.4	17,700
	IV	358.67	276.9	180.0	370	8	85.0	17,650	358.67	278.0	180.7	370	8	85.4	17,680	358.67	279.0	181.4	370	8	85.8	17,720
95'	IV	378.67	292.5	190.0	370	8	89.5	18,490	378.67	293.5	190.7	370	8	89.8	18,520	378.67	294.6	191.4	370	8	90.2	18,560
100'	IV	398.67	308.0	200.0	370	8	93.9	19,490	398.67	309.1	200.7	370	8	94.3	19,520	398.67	310.1	201.4	370	8	94.7	19,550
105'	IV	418.67	323.6	210.0	500	8	99.8	20,510	418.67	324.6	210.7	500	8	100.2	20,540	418.67	325.7	211.4	500	8	100.6	20,570
110'	IV	438.67	339.2	220.0	500	8	104.3	21,580	438.67	340.2	220.7	500	8	104.7	21,610	438.67	341.2	221.4	500	8	105.1	21,650
115'	IV	458.67	354.7	230.0	500	8	108.7	22,420	458.67	355.8	230.7	500	8	109.1	22,450	458.67	356.8	231.4	500	8	109.5	22,480
120'	BT-72	478.67	370.3	240.0	980	8	128.1	24,900	478.67	371.3	240.7	980	8	128.5	24,940	478.67	372.3	241.4	980	8	128.9	24,970
	J	478.67	370.3	240.0	980	8	128.1	24,900	478.67	371.3	240.7	980	8	128.5	24,940	478.67	372.3	241.4	980	8	128.9	24,970
125'	BT-72	498.67	385.8	250.0	980	8	132.8	25,740	498.67	386.9	250.7	980	8	133.2	25,780	498.67	387.9	251.4	980	8	133.7	25,810
	J	498.67	385.8	250.0	980	8	132.8	25,740	498.67	386.9	250.7	980	8	133.2	25,780	498.67	387.9	251.4	980	8	133.7	25,810
130'	BT-72	518.67	401.4	260.0	980	8	137.5	26,740	518.67	402.4	260.7	980	8	138.0	26,770	518.67	403.5	261.4	980	8	138.4	26,800
	J	518.67	401.4	260.0	980	8	137.5	26,740	518.67	402.4	260.7	980	8	138.0	26,770	518.67	403.5	261.4	980	8	138.4	26,800
135'	J	538.67	416.9	270.0	980	8	142.3	27,580	538.67	418.0	270.7	980	8	142.7	27,610	538.67	419.0	271.4	980	8	143.1	27,640
140'	J	558.67	432.5	280.0	980	8	147.0	28,570	558.67	433.5	280.7	980	8	147.4	28,600	558.67	434.6	281.4	980	8	147.8	28,640
145'	J	578.67	448.0	290.0	980	8	151.7	29,410	578.67	449.1	290.7	980	8	152.1	29,450	578.67	450.1	291.4	980	8	152.6	29,480

- 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 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 "WEATHERING STEEL FIXED BEARING ASSEMBLY" OR "WEATHERING STEEL EXPANSION BEARING ASSEMBLY."
- 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.

**NOTES**

QUANTITY CALCULATIONS ASSUME ALL PIERS ARE FIXED PIERS. ANY ADJUSTMENTS TO THE QUANTITIES OF "SAW-CUT GROOVING"; "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 "SAW-CUT GROOVING"; "CONCRETE RAIL (TR3)"; "CLASS AA CONCRETE" AND "REINFORCING STEEL" WILL BE BASED ON PLAN QUANTITY.

APPROVED BY BRIDGE ENGINEER <i>Robert A. Dusch</i>	DATE <b>9-9-2011</b>
OKLAHOMA DEPARTMENT OF TRANSPORTATION COUNTY BRIDGE STANDARD (ENGLISH)	
<b>SUPERSTRUCTURE QUANTITIES</b>	
<b>P.C. BEAMS</b>	
<b>(SHEET NO. 2 OF 2)</b>	
<b>32' CLEAR ROADWAY - CONVENTIONAL - SKEWED 0°</b>	
2009 SPECIFICATIONS	CB32-C-SKO-SPR-QUAN-PCB-2
	01E CB-566E