

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) (LF)	SAW-CUT GROOVING (SY)	CONCRETE RAIL (TR3) (LF)	STRUCTURAL STEEL ② (LB)	WEATHERING STEEL FIXED BEARING ASSEMBLY ③ (EA)	WEATHERING STEEL EXPANSION BEARING ASSEMBLY ③ (EA)	CLASS AA CONCRETE (CY)	REINFORCING STEEL ④ (LB)	PRESTRESSED CONCRETE BEAMS (TYPE ①) (LF)	SAW-CUT GROOVING (SY)	CONCRETE RAIL (TR3) (LF)	STRUCTURAL STEEL ② (LB)	WEATHERING STEEL FIXED BEARING ASSEMBLY ③ (EA)	WEATHERING STEEL FIXED OR EXPANSION BEARING ASSEMBLY ③ (EA)	CLASS AA CONCRETE (CY)	REINFORCING STEEL ⑤ (LB)	PRESTRESSED CONCRETE BEAMS (TYPE ①) (LF)	SAW-CUT GROOVING (SY)	CONCRETE RAIL (TR3) (LF)	STRUCTURAL STEEL ② (LB)	WEATHERING STEEL FIXED BEARING ASSEMBLY ③ (EA)	WEATHERING STEEL FIXED OR EXPANSION BEARING ASSEMBLY ③ (EA)	CLASS AA CONCRETE (CY)	REINFORCING STEEL ⑤ (LB)
30'	II	89.00	78.7	66.4	500	3	3	27.3	6,600	89.00	74.8	63.2	390	3	3	25.6	6,150	89.00	75.6	63.9	390	3	3	25.9	6,180
	B	89.00	78.7	66.4	510	3	3	27.2	6,600	89.00	74.8	63.2	400	3	3	25.5	6,140	89.00	75.6	63.9	400	3	3	25.8	6,170
35'	II	104.00	90.9	76.4	500	3	3	30.9	7,350	104.00	87.0	73.2	390	3	3	29.2	6,900	104.00	87.8	73.9	390	3	3	29.4	6,930
	B	104.00	90.9	76.4	510	3	3	30.7	7,340	104.00	87.0	73.2	400	3	3	29.0	6,890	104.00	87.8	73.9	400	3	3	29.3	6,920
40'	II	119.00	103.1	86.4	500	3	3	34.4	8,260	119.00	99.3	83.2	390	3	3	32.7	7,810	119.00	100.1	83.9	390	3	3	33.0	7,830
	B	119.00	103.1	86.4	510	3	3	34.2	8,250	119.00	99.3	83.2	400	3	3	32.5	7,800	119.00	100.1	83.9	400	3	3	32.8	7,820
45'	II	134.00	115.3	96.4	500	3	3	37.9	9,000	134.00	111.5	93.2	390	3	3	36.2	8,550	134.00	112.3	93.9	390	3	3	36.5	8,580
	B	134.00	115.3	96.4	510	3	3	37.8	9,000	134.00	111.5	93.2	400	3	3	36.1	8,550	134.00	112.3	93.9	400	3	3	36.4	8,580
50'	II	149.00	127.6	106.4	500	3	3	41.4	9,910	149.00	123.7	103.2	390	3	3	39.7	9,520	149.00	124.5	103.9	390	3	3	40.0	9,550
	B	149.00	127.6	106.4	510	3	3	41.3	9,900	149.00	123.7	103.2	400	3	3	39.6	9,510	149.00	124.5	103.9	400	3	3	39.9	9,540
55'	II	164.00	139.8	116.4	500	3	3	45.0	10,660	164.00	135.9	113.2	390	3	3	43.2	10,270	164.00	136.7	113.9	390	3	3	43.5	10,300
	B	164.00	139.8	116.4	510	3	3	44.8	10,650	164.00	135.9	113.2	400	3	3	43.1	10,260	164.00	136.7	113.9	400	3	3	43.4	10,290
60'	II	179.00	152.0	126.4	500	3	3	48.5	11,680	179.00	148.1	123.2	390	3	3	46.8	11,170	179.00	149.0	123.9	390	3	3	47.1	11,200
	C	179.00	152.0	126.4	510	3	3	49.0	11,690	179.00	148.1	123.2	400	3	3	47.3	11,180	179.00	149.0	123.9	400	3	3	47.6	11,210
65'	III	194.00	164.2	136.4	510	3	3	53.0	12,460	194.00	160.4	133.2	400	3	3	51.3	11,950	194.00	161.2	133.9	400	3	3	51.6	11,980
	C	194.00	164.2	136.4	510	3	3	52.6	12,440	194.00	160.4	133.2	400	3	3	50.9	11,930	194.00	161.2	133.9	400	3	3	51.2	11,960
70'	III	209.00	176.5	146.4	510	3	3	56.5	13,360	209.00	172.6	143.2	400	3	3	54.8	12,910	209.00	173.4	143.9	400	3	3	55.1	12,940
	C	209.00	176.5	146.4	510	3	3	56.1	13,350	209.00	172.6	143.2	400	3	3	54.4	12,900	209.00	173.4	143.9	400	3	3	54.7	12,920
75'	III	224.00	188.7	156.4	510	3	3	60.1	14,110	224.00	184.8	153.2	400	3	3	58.4	13,660	224.00	185.6	153.9	400	3	3	58.7	13,690
	C	224.00	188.7	156.4	510	3	3	59.7	14,100	224.00	184.8	153.2	400	3	3	58.0	13,650	224.00	185.6	153.9	400	3	3	58.3	13,680
80'	III	239.00	200.9	166.4	510	3	3	63.7	15,020	239.00	197.0	163.2	400	3	3	61.9	14,570	239.00	197.8	163.9	400	3	3	62.2	14,590
	IV	239.00	200.9	166.4	510	3	3	64.7	15,030	239.00	197.0	163.2	400	3	3	62.9	14,580	239.00	197.8	163.9	400	3	3	63.3	14,610
85'	III	254.00	213.1	176.4	510	3	3	67.2	15,760	254.00	209.3	173.2	400	3	3	65.5	15,310	254.00	210.1	173.9	400	3	3	65.8	15,340
	IV	254.00	213.1	176.4	510	3	3	68.3	15,780	254.00	209.3	173.2	400	3	3	66.5	15,330	254.00	210.1	173.9	400	3	3	66.8	15,360
90'	IV	269.00	225.3	186.4	510	3	3	71.9	16,690	269.00	221.5	183.2	400	3	3	70.1	16,240	269.00	222.3	183.9	400	3	3	70.4	16,260
95'	IV	284.00	237.6	196.4	510	3	3	75.4	17,430	284.00	233.7	193.2	400	3	3	73.7	16,980	284.00	234.5	193.9	400	3	3	74.0	17,010
100'	IV	299.00	249.8	206.4	510	3	3	79.0	18,340	299.00	245.9	203.2	400	3	3	77.3	17,890	299.00	246.7	203.9	400	3	3	77.6	17,920
105'	IV	314.00	262.0	216.4	600	3	3	83.7	19,220	314.00	258.1	213.2	490	3	3	82.0	18,770	314.00	259.0	213.9	490	3	3	82.3	18,800
110'	BT-72	329.00	274.2	226.4	970	3	3	98.2	21,250	329.00	270.4	223.2	860	3	3	96.4	20,860	329.00	271.2	223.9	860	3	3	96.7	20,880
	J	329.00	274.2	226.4	970	3	3	98.2	21,250	329.00	270.4	223.2	860	3	3	96.4	20,860	329.00	271.2	223.9	860	3	3	96.7	20,880
115'	BT-72	344.00	286.5	236.4	970	3	3	102.0	22,120	344.00	282.6	233.2	860	3	3	100.2	21,610	344.00	283.4	233.9	860	3	3	100.5	21,640
	J	344.00	286.5	236.4	970	3	3	102.0	22,120	344.00	282.6	233.2	860	3	3	100.2	21,610	344.00	283.4	233.9	860	3	3	100.5	21,640
120'	BT-72	359.00	298.7	246.4	970	3	3	105.8	23,020	359.00	294.8	243.2	860	3	3	104.0	22,510	359.00	295.6	243.9	860	3	3	104.4	22,540
	J	359.00	298.7	246.4	970	3	3	105.8	23,020	359.00	294.8	243.2	860	3	3	104.0	22,510	359.00	295.6	243.9	860	3	3	104.4	22,540
125'	J	374.00	310.9	256.4	970	3	3	109.6	23,770	374.00	307.0	253.2	860	3	3	107.8	23,260	374.00	307.8	253.9	860	3	3	108.1	23,290
130'	J	389.00	323.1	266.4	970	3	3	113.4	24,680	389.00	319.3	263.2	860	3	3	111.6	24,170	389.00	320.1	263.9	860	3	3	111.9	24,190
135'	J	404.00	335.3	276.4	970	3	3	117.2	25,420	404.00	331.5	273.2	860	3	3	115.4	24,910	404.00	332.3	273.9	860	3	3	115.7	24,940

- 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 QUANTITIES SHOWN INCLUDE WEIGHT OF STEEL ANGLE BUMPERS AT ABUTMENT ENDS OF DECK SLAB. FOR EACH STEEL ANGLE BUMPER OMITTED FROM END OF DECK SLAB, DEDUCT 110 POUNDS FROM THE QUANTITIES SHOWN.
- 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 "WEATHERING STEEL FIXED BEARING ASSEMBLY" OR "WEATHERING STEEL EXPANSION BEARING ASSEMBLY."
- ④ QUANTITY INCLUDES PROVISION FOR LAP SPLICES REQUIRED IN THE LONGITUDINAL REINFORCING STEEL AS FOLLOWS:
30' THRU 55' SPANS - NO LAP SPLICES
60' THRU 110' SPANS - 1 LAP SPLICE
115' THRU 135' SPANS - 2 LAP SPLICES
- ⑤ 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.

SUMMARY OF QUANTITIES - BEARING ASSEMBLY STRUCTURAL STEEL (PER EACH ASSEMBLY)

PRESTRESSED CONCRETE BEAM TYPE	SPAN	WEATHERING STEEL FIXED OR EXPANSION BEARING ASSEMBLY (LB)
II AND B	30' THRU 60'	150
III AND C	60' AND 65'	160
	70' THRU 85'	170
IV AND BT-72	80' THRU 90'	190
	95' THRU 110'	200
	115' AND 120'	210
J	110' THRU 135'	220

SUMMARY OF QUANTITIES SEALED EXPANSION JOINT (PER EXPANSION JOINT)

ITEM	UNIT	TOTAL
SEALED EXPANSION JOINT	LF	29.17

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 *Robert J. Dusch* DATE 9-9-2011

OKLAHOMA DEPARTMENT OF TRANSPORTATION
COUNTY BRIDGE STANDARD (ENGLISH)

SUPERSTRUCTURE QUANTITIES
P.C. BEAMS
(SHEET NO. 1 OF 2)
26' CLEAR ROADWAY - CONVENTIONAL - SKEWED 0°

2009 SPECIFICATIONS CB26-C-SKO-SPR-QUAN-PCB-1 01E CB-190E