

SUMMARY OF QUANTITIES - SUPERSTRUCTURE (PER SPAN)																		
SPAN	ABUTMENT TO ABUTMENT						ABUTMENT TO STANDARD PIER						ABUTMENT TO STEPPED PIER					
	CONCRETE RAIL (TR3)	STRUCTURAL STEEL	CLASS AA CONCRETE	REINFORCING STEEL ①	(PL) FIXED BEARING ASSEMBLY ③	(PL) EXPANSION BEARING ASSEMBLY ③	CONCRETE RAIL (TR3)	STRUCTURAL STEEL	CLASS AA CONCRETE	REINFORCING STEEL ②	(PL) FIXED BEARING ASSEMBLY ③	(PL) FIXED OR EXPANSION BEARING ASSEMBLY ③	CONCRETE RAIL (TR3)	STRUCTURAL STEEL	CLASS AA CONCRETE	REINFORCING STEEL ②	(PL) FIXED BEARING ASSEMBLY ③	(PL) FIXED OR EXPANSION BEARING ASSEMBLY ③
	(LF)	(LB)	(CY)	(LB)	(EA)	(EA)	(LF)	(LB)	(CY)	(LB)	(EA)	(EA)	(LF)	(LB)	(CY)	(LB)	(EA)	(EA)
30'	70.5	13,170	33.4	10,240	4	4	65.3	13,170	30.1	9,660	4	4	67.6	13,170	31.4	9,930	4	4
35'	80.5	14,640	37.8	11,240	4	4	75.3	14,640	34.4	10,610	4	4	77.6	14,640	35.8	10,830	4	4
40'	90.5	17,360	42.1	12,070	4	4	85.3	17,360	38.8	11,610	4	4	87.6	17,360	40.1	11,820	4	4
45'	100.5	20,480	46.5	13,070	4	4	95.3	20,480	43.1	12,450	4	4	97.6	20,480	44.5	12,670	4	4
50'	110.5	25,400	50.9	13,910	4	4	105.3	25,400	47.5	13,520	4	4	107.6	25,400	48.9	13,730	4	4
55'	120.5	32,460	55.2	14,910	4	4	115.3	32,460	51.9	14,360	4	4	117.6	32,460	53.2	14,570	4	4
60'	130.5	38,400	59.6	15,890	4	4	125.3	38,400	56.3	15,360	4	4	127.6	38,400	57.6	15,570	4	4
65'	140.5	42,450	64.0	16,890	4	4	135.3	42,450	60.7	16,190	4	4	137.6	42,450	62.0	16,410	4	4
70'	150.5	49,420	68.4	17,730	4	4	145.3	49,420	65.0	17,260	4	4	147.6	49,420	66.4	17,480	4	4
75'	160.5	57,960	72.7	18,720	4	4	155.3	57,960	69.4	18,100	4	4	157.6	57,960	70.7	18,320	4	4
80'	170.5	67,810	77.1	19,560	4	4	165.3	67,810	73.7	19,100	4	4	167.6	67,810	75.1	19,310	4	4
85'	180.5	77,210	81.8	20,560	4	4	175.3	77,210	78.4	19,940	4	4	177.6	77,210	79.8	20,150	4	4
90'	190.5	87,010	86.2	21,400	4	4	185.3	87,010	82.8	20,930	4	4	187.6	87,010	84.2	21,150	4	4
95'	200.5	104,190	90.5	22,390	4	4	195.3	104,190	87.2	21,770	4	4	197.6	104,190	88.6	21,990	4	4
100'	210.5	109,080	94.9	23,230	4	4	205.3	109,080	91.6	22,770	4	4	207.6	109,080	92.9	22,980	4	4

- ① QUANTITY INCLUDES PROVISION FOR LAP SPLICES REQUIRED IN THE LONGITUDINAL REINFORCING STEEL AS FOLLOWS:  
 30' THRU 55' SPANS - NO LAP SPLICES  
 60' THRU 100' SPANS - 1 LAP SPLICE
- 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 100' SPANS - 1 1/2 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, 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 - SUPERSTRUCTURE (PER SPAN)															
SPAN	STANDARD PIER TO STANDARD PIER					STANDARD PIER TO STEPPED PIER					STEPPED PIER TO STEPPED PIER				
	CONCRETE RAIL (TR3)	STRUCTURAL STEEL	CLASS AA CONCRETE	REINFORCING STEEL ②	(PL) FIXED OR EXPANSION BEARING ASSEMBLY ③	CONCRETE RAIL (TR3)	STRUCTURAL STEEL	CLASS AA CONCRETE	REINFORCING STEEL ②	(PL) FIXED OR EXPANSION BEARING ASSEMBLY ③	CONCRETE RAIL (TR3)	STRUCTURAL STEEL	CLASS AA CONCRETE	REINFORCING STEEL ②	(PL) FIXED OR EXPANSION BEARING ASSEMBLY ③
	(LF)	(LB)	(CY)	(LB)	(EA)	(LF)	(LB)	(CY)	(LB)	(EA)	(LF)	(LB)	(CY)	(LB)	(EA)
30'	60.0	13,170	26.7	8,950	8	62.4	13,170	28.1	9,220	8	64.7	13,170	29.4	9,490	8
35'	70.0	14,640	31.1	10,020	8	72.4	14,640	32.4	10,240	8	74.7	14,640	33.8	10,450	8
40'	80.0	17,360	35.4	11,020	8	82.4	17,360	36.8	11,230	8	84.7	17,360	38.1	11,450	8
45'	90.0	20,480	39.8	11,850	8	92.4	20,480	41.2	12,070	8	94.7	20,480	42.5	12,290	8
50'	100.0	25,400	44.2	12,930	8	102.4	25,400	45.5	13,140	8	104.7	25,400	46.9	13,350	8
55'	110.0	32,460	48.5	13,760	8	112.4	32,460	49.9	13,980	8	114.7	32,460	51.3	14,200	8
60'	120.0	38,400	52.9	14,760	8	122.4	38,400	54.3	14,980	8	124.7	38,400	55.7	15,190	8
65'	130.0	42,450	57.3	15,600	8	132.4	42,450	58.7	15,810	8	134.7	42,450	60.0	16,030	8
70'	140.0	49,420	61.7	16,670	8	142.4	49,420	63.0	16,890	8	144.7	49,420	64.4	17,100	8
75'	150.0	57,960	66.0	17,510	8	152.4	57,960	67.4	17,720	8	154.7	57,960	68.8	17,940	8
80'	160.0	67,810	70.4	18,500	8	162.4	67,810	71.7	18,720	8	164.7	67,810	73.1	18,930	8
85'	170.0	77,210	75.1	19,340	8	172.4	77,210	76.4	19,560	8	174.7	77,210	77.8	19,770	8
90'	180.0	87,010	79.5	20,340	8	182.4	87,010	80.8	20,550	8	184.7	87,010	82.2	20,770	8
95'	190.0	104,190	83.9	21,180	8	192.4	104,190	85.2	21,390	8	194.7	104,190	86.6	21,610	8
100'	200.0	109,080	88.2	22,170	8	202.4	109,080	89.6	22,390	8	204.7	109,080	90.9	22,600	8

SUMMARY OF QUANTITIES BEARING ASSEMBLY STRUCTURAL STEEL (PER EACH ASSEMBLY)	
SPAN	FIXED OR EXPANSION BEARING ASSEMBLY (LB)
30'	160
35'	160
40'	160
45'	160
50'	160
55'	160
60'	160
65'	160
70'	170
75'	170
80'	170
85'	180
90'	180
95'	190
100'	190

SUMMARY OF QUANTITIES SEALED EXPANSION JOINT (PER EXPANSION JOINT)		
ITEM	UNIT	TOTAL
SEALED EXPANSION JOINT	LF	39.99

**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	10/16/05
OKLAHOMA DEPARTMENT OF TRANSPORTATION COUNTY BRIDGE STANDARD (ENGLISH)			
<b>SUPERSTRUCTURE QUANTITIES ROLLED BEAMS</b>			
<b>26' CLEAR ROADWAY - CONVENTIONAL - SKEWED 0°</b>			
1999 STANDARD SPECIFICATIONS	CB26-C-SKO-SPR-QUAN-RB	00E	CB-633E