

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'	66.4	10,040	25.1	6,200	3	3	63.2	10,040	23.3	5,750	3	3	63.9	10,040	23.6	5,780	3	3
35'	76.4	12,120	28.6	6,950	3	3	73.2	12,120	26.9	6,500	3	3	73.9	12,120	27.2	6,530	3	3
40'	86.4	14,060	32.1	7,850	3	3	83.2	14,200	30.4	7,400	3	3	83.9	14,060	30.7	7,430	3	3
45'	96.4	16,880	35.6	8,600	3	3	93.2	16,880	33.9	8,150	3	3	93.9	16,880	34.2	8,180	3	3
50'	106.4	19,840	39.2	9,510	3	3	103.2	19,840	37.4	9,120	3	3	103.9	19,840	37.7	9,140	3	3
55'	116.4	24,100	42.7	10,260	3	3	113.2	24,100	41.0	9,860	3	3	113.9	24,100	41.3	9,890	3	3
60'	126.4	29,050	46.3	11,280	3	3	123.2	29,050	44.5	10,770	3	3	123.9	29,050	44.8	10,800	3	3
65'	136.4	34,050	49.8	12,030	3	3	133.2	34,050	48.0	11,520	3	3	133.9	34,050	48.4	11,550	3	3
70'	146.4	38,480	53.3	12,940	3	3	143.2	38,480	51.6	12,480	3	3	143.9	38,480	51.9	12,510	3	3
75'	156.4	46,260	56.8	13,680	3	3	153.2	46,260	55.1	12,480	3	3	153.9	46,260	55.4	13,260	3	3
80'	166.4	53,990	60.6	14,590	3	3	163.2	53,990	58.8	13,230	3	3	163.9	53,990	59.1	14,170	3	3
85'	176.4	61,110	64.1	15,340	3	3	173.2	61,110	62.4	14,140	3	3	173.9	61,110	62.7	14,920	3	3
90'	186.4	73,550	67.7	16,240	3	3	183.2	73,550	65.9	14,890	3	3	183.9	73,550	66.2	15,820	3	3
95'	196.4	85,230	71.2	16,990	3	3	193.2	85,230	69.5	15,790	3	3	193.9	85,230	69.8	16,570	3	3
100'	206.4	89,450	74.7	17,900	3	3	203.2	89,450	73.0	17,450	3	3	203.9	89,450	73.3	17,470	3	3

- 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	10,040	21.6	5,340	6	60.7	10,040	21.9	5,360	6	61.4	10,040	22.2	5,390	6
35'	70.0	12,120	25.1	6,080	6	70.7	12,120	25.4	6,110	6	71.4	12,120	25.7	6,140	6
40'	80.0	14,060	28.6	6,990	6	80.7	14,060	29.0	7,020	6	81.4	14,060	29.3	7,050	6
45'	90.0	16,880	32.2	7,740	6	90.7	16,880	32.5	7,770	6	91.4	16,880	32.8	7,790	6
50'	100.0	19,840	35.7	8,700	6	100.7	19,840	36.0	8,730	6	101.4	19,840	36.3	8,760	6
55'	110.0	24,100	39.2	9,450	6	110.7	24,100	39.6	9,480	6	111.4	24,100	39.9	9,510	6
60'	120.0	29,050	42.8	10,360	6	120.7	29,050	43.1	10,380	6	121.4	29,050	43.4	10,410	6
65'	130.0	34,050	46.3	11,100	6	130.7	34,050	46.6	11,130	6	131.4	34,050	46.9	11,160	6
70'	140.0	38,480	49.8	12,070	6	140.7	38,480	50.1	12,100	6	141.4	38,480	50.5	12,130	6
75'	150.0	46,260	53.3	12,820	6	150.7	46,260	53.7	12,850	6	151.4	46,260	54.0	12,870	6
80'	160.0	53,990	57.1	13,730	6	160.7	53,990	57.4	13,750	6	161.4	53,990	57.7	13,780	6
85'	170.0	61,110	60.6	14,470	6	170.7	61,110	60.9	14,500	6	171.4	61,110	61.3	14,530	6
90'	180.0	73,550	64.2	15,380	6	180.7	73,550	64.5	15,410	6	181.4	73,550	64.8	15,440	6
95'	190.0	85,230	67.7	16,130	6	190.7	85,230	68.0	16,160	6	191.4	85,230	68.3	16,180	6
100'	200.0	89,450	71.3	17,030	6	200.7	89,450	71.6	17,060	6	201.4	89,450	71.9	17,090	6

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'	170
60'	170
65'	170
70'	180
75'	180
80'	180
85'	190
90'	190
95'	190
100'	200

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 "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	10/16/06
OKLAHOMA DEPARTMENT OF TRANSPORTATION COUNTY BRIDGE STANDARD (ENGLISH)			
SUPERSTRUCTURE QUANTITIES ROLLED BEAMS			
26' CLEAR ROADWAY - CONVENTIONAL - SKEWED 0°			
1999 STANDARD SPECIFICATIONS	CB26-C-SKO-SPR-QUAN-RB	00E	CB-192E