

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	10,490	27.0	8,810	3	3	65.3	10,490	24.3	8,400	3	3	67.6	10,490	25.4	8,600	3	3
35'	80.5	12,570	30.6	9,710	3	3	75.3	12,570	27.8	9,150	3	3	77.6	12,570	28.9	9,350	3	3
40'	90.5	14,560	34.1	10,460	3	3	85.3	14,700	31.4	10,060	3	3	87.6	14,700	32.4	10,250	3	3
45'	100.5	17,400	37.6	11,370	3	3	95.3	17,400	34.9	10,800	3	3	97.6	17,400	36.0	11,000	3	3
50'	110.5	20,340	41.1	12,110	3	3	105.3	20,340	38.4	11,770	3	3	107.6	20,340	39.5	11,960	3	3
55'	120.5	24,610	44.7	13,020	3	3	115.3	24,610	42.0	12,520	3	3	117.6	24,610	43.0	12,710	3	3
60'	130.5	29,560	48.2	13,890	3	3	125.3	29,560	45.5	13,420	3	3	127.6	29,560	46.6	13,620	3	3
65'	140.5	34,570	51.8	14,790	3	3	135.3	34,570	49.0	14,170	3	3	137.6	34,570	50.1	14,370	3	3
70'	150.5	38,990	55.3	15,540	3	3	145.3	38,990	52.6	15,140	3	3	147.6	38,990	53.6	15,330	3	3
75'	160.5	46,910	58.8	16,450	3	3	155.3	46,910	56.1	15,890	3	3	157.6	46,910	57.1	16,080	3	3
80'	170.5	54,640	62.6	17,190	3	3	165.3	54,640	59.8	16,790	3	3	167.6	54,640	60.9	16,980	3	3
85'	180.5	61,760	66.1	18,100	3	3	175.3	61,760	63.4	17,540	3	3	177.6	61,760	64.5	17,740	3	3
90'	190.5	74,200	69.6	18,850	3	3	185.3	74,200	66.9	18,450	3	3	187.6	74,200	68.0	18,640	3	3
95'	200.5	85,880	73.2	19,760	3	3	195.3	85,880	70.5	19,190	3	3	197.6	85,880	71.5	19,390	3	3
100'	210.5	90,110	76.7	20,500	3	3	205.3	90,110	74.0	20,100	3	3	207.6	90,110	75.1	20,290	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	10,490	21.6	7,830	6	62.4	10,490	22.7	8,070	6	64.7	10,490	23.7	8,270	6
35'	70.0	12,570	25.1	8,620	6	72.4	12,570	26.2	8,820	6	74.7	12,570	27.3	9,020	6
40'	80.0	14,700	28.6	9,530	6	82.4	14,560	29.7	9,730	6	84.7	14,560	30.8	9,920	6
45'	90.0	17,400	32.2	10,280	6	92.4	17,400	33.3	10,480	6	94.7	17,400	34.3	10,670	6
50'	100.0	20,340	35.7	11,250	6	102.4	20,340	36.8	11,440	6	104.7	20,340	37.9	11,630	6
55'	110.0	24,610	39.2	11,990	6	112.4	24,610	40.3	12,190	6	114.7	24,610	41.4	12,380	6
60'	120.0	29,560	42.8	12,900	6	122.4	29,560	43.9	13,100	6	124.7	29,560	45.0	13,290	6
65'	130.0	34,570	46.3	13,650	6	132.4	34,570	47.4	13,840	6	134.7	34,570	48.5	14,040	6
70'	140.0	38,990	49.8	14,610	6	142.4	38,990	50.9	14,810	6	144.7	38,990	52.0	15,000	6
75'	150.0	46,910	53.3	15,360	6	152.4	46,910	54.4	15,560	6	154.7	46,910	55.5	15,750	6
80'	160.0	54,640	57.1	16,270	6	162.4	54,640	58.2	16,460	6	164.7	54,640	59.3	16,660	6
85'	170.0	61,760	60.6	17,010	6	172.4	61,760	61.7	17,210	6	174.7	61,760	62.8	17,410	6
90'	180.0	74,200	64.2	17,920	6	182.4	74,200	65.3	18,120	6	184.7	74,200	66.4	18,310	6
95'	190.0	85,880	67.7	18,670	6	192.4	85,880	68.8	18,860	6	194.7	85,880	69.9	19,060	6
100'	200.0	90,110	71.3	19,580	6	202.4	90,110	72.4	19,770	6	204.7	90,110	73.4	19,960	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	33.06

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)			
SUPERSTRUCTURE QUANTITIES ROLLED BEAMS			
26' CLEAR ROADWAY - CONVENTIONAL - SKEWED 30°			
1999 STANDARD SPECIFICATIONS	CB26-C-SK30-SPR-QUAN-RB	00E	CB-256E