

SUPERSTRUCTURE QUANTITIES PER SPAN									
SPAN	ABUTMENT TO ABUTMENT								
	SAW-CUT GROOVING (S.Y.)	CONCRETE RAIL (TR4) (L.F.)	STRUCTURAL STEEL (LB.)	CLASS AA CONCRETE (C.Y.)	EPOXY COATED REINFORCING STEEL ① (LB.)		WATER REPELLENT (VISUALLY INSPECTED) (S.Y.)		FIXED BEARING ASSEMBLY (EACH) ③
					TR4 W/ OPENINGS	TR4 W/O OPENINGS	TR4 W/ OPENINGS	TR4 W/O OPENINGS	
30'	135.6	61.0	12,450	58.0	9,220	9,390	118	117	8
35'	157.8	71.0	15,220	64.0	10,310	10,590	129	127	8
40'	180.0	81.0	18,550	69.3	11,520	11,790	138	136	8
45'	202.2	91.0	23,670	74.6	12,610	12,990	147	145	8
50'	224.4	101.0	28,870	80.8	13,820	14,200	157	155	8
55'	246.7	111.0	34,350	90.1	15,690	16,180	177	173	8
60'	268.9	121.0	40,710	95.4	17,060	17,540	186	182	8
65'	291.1	131.0	48,390	101.4	18,160	18,740	197	193	8
70'	313.3	141.0	56,270	106.7	19,370	19,950	206	201	8
75'	335.6	151.0	64,970	112.2	20,460	21,150	212	207	8
80'	357.8	161.0	75,790	117.5	21,670	22,350	221	216	8
85'	380.0	171.0	91,690	122.9	22,760	23,550	230	224	8
90'	402.2	181.0	106,790	128.3	23,970	24,760	239	233	8
95'	424.4	191.0	119,990	133.6	25,060	25,960	248	242	8
100'	446.7	201.0	136,770	138.9	26,280	27,160	256	250	8

- ① Quantity includes provision for laps required in longitudinal reinforcing as follows:
60' thru 100' Spans - 1 lap
- ② Quantity includes provision for laps required in longitudinal reinforcing as follows:
30' thru 45' Spans - 1/2 lap
50' thru 65' Spans - 1 lap
70' thru 100' Spans - 1 1/2 laps
Laps account for adjacent span combinations and are approximate. The Department will not pay for additional quantities of reinforcing steel in excess of the quantities shown in the plans.

③ At abutments, provide and install Fixed Bearing Assemblies of the size, shape and location as detailed in the plans. See schedule for estimated total of structural steel per span for the Fixed Bearing Assemblies. Include all costs associated with providing and installing the Anchor Plate and Anchor Bars, including all material, labor, equipment and incidentals necessary to complete the work shown in the plans in the contract unit price of FIXED BEARING ASSEMBLIES.

④ At all piers, provide and install Expansion Bearing Assemblies of the size, shape and location as detailed in the plans. See schedule for estimated total of stainless steel per span for the Expansion Bearing Assemblies. Include all costs associated with providing and installing the Elastomeric Pads, Anchor Plates, Contact Plates, Anchor Bars and Anchor Bolts, Nuts and Washers, including all material, labor, equipment and incidentals necessary to complete the work shown in the plans in the contract unit price of EXPANSION BEARING ASSEMBLIES.

⑤ Provide and install Elastomeric Pads between the top surface of the Beams and the bottom surface of the Deck Slab. The Elastomeric Pads are to be of the size and shape as detailed in the plans and located at each Beam end above the Piers. Include all costs associated with providing and installing the Elastomeric Pads above the Beams, including all material, labor, equipment, and incidentals necessary to complete the work as shown in the plans, in the contract unit price of ELASTOMERIC BEARING PADS.

BEARING ASSEMBLY STAINLESS/STRUCTURAL STEEL QUANTITIES PER SPAN				
SPAN	ABUTMENT TO ABUTMENT	ABUTMENT TO PIER		PIER TO PIER
	FIXED BEARING ASSEMBLIES (LB.)	FIXED BEARING ASSEMBLIES (LB.)	EXPANSION BEARING ASSEMBLIES (LB.)	EXPANSION BEARING ASSEMBLIES (LB.)
30'-50'	570	280	710	1,410
55'-100'	570	280	730	1,460

SUPERSTRUCTURE QUANTITIES PER SPAN																					
SPAN	ABUTMENT TO PIER											PIER TO PIER									
	SAW-CUT GROOVING (S.Y.)	CONCRETE RAIL (TR4) (L.F.)	STRUCTURAL STEEL (LB.)	CLASS AA CONCRETE (C.Y.)	EPOXY COATED REINFORCING STEEL ② (LB.)		WATER REPELLENT (VISUALLY INSPECTED) (S.Y.)		FIXED BEARING ASSEMBLY (EACH) ③	EXPANSION BEARING ASSEMBLY (EACH) ④	ELASTOMERIC BEARING PADS (EACH) ⑤	SAW-CUT GROOVING (S.Y.)	CONCRETE RAIL (TR4) (L.F.)	STRUCTURAL STEEL (LB.)	CLASS AA CONCRETE (C.Y.)	EPOXY COATED REINFORCING STEEL ② (LB.)		WATER REPELLENT (VISUALLY INSPECTED) (S.Y.)		EXPANSION BEARING ASSEMBLY (EACH) ④	ELASTOMERIC BEARING PADS (EACH) ⑤
					TR4 W/ OPENINGS	TR4 W/O OPENINGS	TR4 W/ OPENINGS	TR4 W/O OPENINGS								TR4 W/ OPENINGS	TR4 W/O OPENINGS	TR4 W/ OPENINGS	TR4 W/O OPENINGS		
30'	134.4	60.5	13,900	44.8	9,210	9,390	86	85	4	4	4	133.3	60.0	15,340	31.5	9,260	9,330	54	53	8	8
35'	161.1	70.5	16,690	50.4	10,430	10,590	96	94	4	4	4	155.6	70.0	18,150	36.8	10,360	10,530	64	61	8	8
40'	183.3	80.5	20,020	55.7	11,510	11,800	105	103	4	4	4	177.8	80.0	21,480	42.1	11,570	11,740	72	70	8	8
45'	205.6	90.5	25,140	61.0	12,730	13,000	115	112	4	4	4	200.0	90.0	26,600	47.3	12,660	12,940	82	79	8	8
50'	227.8	100.5	30,360	66.7	13,900	14,280	124	121	4	4	4	222.2	100.0	31,840	52.6	13,950	14,220	90	87	8	8
55'	250.0	110.5	35,870	74.0	15,510	15,870	138	134	4	4	4	244.4	110.0	37,390	57.9	15,040	15,420	99	96	8	8
60'	272.2	120.5	42,230	79.3	16,590	17,080	147	143	4	4	4	266.7	120.0	43,750	63.2	16,250	16,630	108	104	8	8
65'	294.4	130.5	49,960	84.9	18,180	18,660	157	153	4	4	4	288.9	130.0	51,520	68.5	18,230	18,590	118	113	8	8
70'	316.7	140.5	57,840	90.2	19,470	19,940	166	162	4	4	4	311.1	140.0	59,400	73.7	19,400	19,880	126	122	8	8
75'	338.9	150.5	66,540	95.7	20,570	21,150	173	167	4	4	4	333.3	150.0	68,110	79.3	20,610	21,080	133	128	8	8
80'	361.1	160.5	77,360	101.1	21,780	22,350	181	176	4	4	4	355.6	160.0	78,930	84.6	21,700	22,280	141	136	8	8
85'	383.3	170.5	93,250	106.4	22,870	23,550	190	185	4	4	4	377.8	170.0	94,820	89.9	22,910	23,480	151	145	8	8
90'	405.6	180.5	108,360	111.7	24,080	24,750	199	193	4	4	4	400.0	180.0	109,930	95.2	24,000	24,690	159	153	8	8
95'	427.8	190.5	121,550	117.0	25,170	25,950	208	202	4	4	4	422.2	190.0	123,120	100.5	25,220	25,890	168	162	8	8
100'	450.0	200.5	138,340	122.3	26,380	27,160	217	210	4	4	4	444.4	200.0	139,910	105.7	26,310	27,090	177	170	8	8

CONSTRUCTION JOINT SEAL QUANTITIES		
ITEM	UNIT	EACH PIER
SEALER CRACK PREPARATION	L.F.	81.5
SEALER RESIN	GAL.	0.9

APPROVED BY BRIDGE ENGINEER *Scott J. Smith* DATE *4/2/10*

OKLAHOMA DEPT. OF TRANSPORTATION
BRIDGE STANDARD (ENGLISH)
SUPERSTRUCTURE QUANTITIES
ROLLED BEAMS
INTEGRAL

2009 SPECIFICATIONS | B40-I-SPR-QUAN-RB | 03E
B-212E