

SUPERSTRUCTURE QUANTITIES PER SPAN																						
SPAN	ABUTMENT TO FIXED PIER											ABUTMENT TO EXPANSION PIER										
	PRESTRESSED CONCRETE BEAMS (TYPE II) (L.F.)	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) ②	FIXED OR EXPANSION BEARING ASSEMBLY (EACH) ②	PRESTRESSED CONCRETE BEAMS (TYPE II) (L.F.)	SAW-CUT GROOVING (S.Y.)	CONCRETE RAIL (TR4) (L.F.)	STRUCTURAL STEEL (LB.)	CLASS AA CONCRETE (C.Y.)	EPOXY COATED REINFORCING STEEL (LB.)		WATER REPELLENT (VISUALLY INSPECTED) (S.Y.)		FIXED BEARING ASSEMBLY (EACH) ②	EXPANSION BEARING ASSEMBLY (EACH) ②
						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'	119	137.0	61.7	450	38.0	8,740	8,910	92	90	4	4	119	137.0	61.7	450	37.9	8,730	8,940	92	90	4	4
35'	139	159.3	71.7	450	43.3	9,850	10,130	107	105	4	4	139	159.3	71.7	450	43.2	9,970	10,160	107	105	4	4
40'	159	181.5	81.7	450	48.7	11,080	11,360	122	120	4	4	159	181.5	81.7	450	48.6	11,080	11,390	122	120	4	4
45'	179	203.7	91.7	450	54.0	12,200	12,580	138	135	4	4	179	203.7	91.7	450	53.9	12,310	12,610	137	135	4	4
50'	199	225.9	101.7	450	59.4	13,510	13,890	153	150	4	4	199	225.9	101.7	450	59.3	13,430	13,840	153	150	4	4
55'	219	248.1	111.7	450	64.7	14,620	15,110	168	165	4	4	219	248.1	111.7	450	64.6	14,660	15,060	168	165	4	4

SUPERSTRUCTURE QUANTITIES PER SPAN																					
SPAN	FIXED PIER TO FIXED PIER										FIXED PIER TO EXPANSION PIER										
	PRESTRESSED CONCRETE BEAMS (TYPE II) (L.F.)	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 OR EXPANSION BEARING ASSEMBLY (EACH) ②	PRESTRESSED CONCRETE BEAMS (TYPE II) (L.F.)	SAW-CUT GROOVING (S.Y.)	CONCRETE RAIL (TR4) (L.F.)	STRUCTURAL STEEL (LB.)	CLASS AA CONCRETE (C.Y.)	EPOXY COATED REINFORCING STEEL (LB.) ①		WATER REPELLENT (VISUALLY INSPECTED) (S.Y.)		FIXED OR EXPANSION BEARING ASSEMBLY (EACH) ②	EXPANSION BEARING ASSEMBLY (EACH) ②
						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'	119	133.3	60.0	450	36.3	8,270	8,440	91	89	8	119	133.3	60.0	450	36.2	8,350	8,550	91	89	4	4
35'	139	155.6	70.0	450	41.7	9,370	9,670	106	104	8	139	155.6	70.0	450	41.6	9,580	9,780	106	104	4	4
40'	159	177.8	80.0	450	47.0	10,620	10,890	121	119	8	159	177.8	80.0	450	46.9	10,700	11,000	121	119	4	4
45'	179	200.0	90.0	450	52.4	11,720	12,120	137	134	8	179	200.0	90.0	450	52.3	11,930	12,230	136	134	4	4
50'	199	222.2	100.0	450	57.7	13,050	13,420	152	149	8	199	222.2	100.0	450	57.6	13,120	13,530	152	149	4	4
55'	219	244.4	110.0	450	63.1	14,140	14,650	167	164	8	219	244.4	110.0	450	63.0	14,360	14,760	167	164	4	4

SUPERSTRUCTURE QUANTITIES PER SPAN										
SPAN	EXPANSION PIER TO EXPANSION PIER									
	PRESTRESSED CONCRETE BEAMS (TYPE II) (L.F.)	SAW-CUT GROOVING (S.Y.)	CONCRETE RAIL (TR4) (L.F.)	STRUCTURAL STEEL (LB.)	CLASS AA CONCRETE (C.Y.)	EPOXY COATED REINFORCING STEEL (LB.)		WATER REPELLENT (VISUALLY INSPECTED) (S.Y.)		FIXED OR EXPANSION BEARING ASSEMBLY (EACH) ②
						TR4 W/ OPENINGS	TR4 W/O OPENINGS	TR4 W/ OPENINGS	TR4 W/O OPENINGS	
30'	119	133.3	60.0	450	36.1	8,330	8,590	91	89	8
35'	139	155.6	70.0	450	41.5	9,560	9,810	106	104	8
40'	159	177.8	80.0	450	46.8	10,680	11,040	122	119	8
45'	179	200.0	90.0	450	52.2	11,910	12,260	137	134	8
50'	199	222.2	100.0	450	57.5	13,020	13,480	152	149	8
55'	219	244.4	110.0	450	62.9	14,260	14,710	167	164	8

BEARING ASSEMBLY STAINLESS STEEL QUANTITIES PER SPAN			
FIXED BEARING TO FIXED BEARING	FIXED BEARING TO EXPANSION BEARING	EXPANSION BEARING TO EXPANSION BEARING	
FIXED BEARING ASSEMBLIES (LB.)	FIXED BEARING ASSEMBLIES (LB.)	EXPANSION BEARING ASSEMBLIES (LB.)	EXPANSION BEARING ASSEMBLIES (LB.)
1,360	680	690	1,380

CONSTRUCTION JOINT SEAL QUANTITIES		
ITEM	UNIT	EACH FIXED PIER
SEALER CRACK PREPARATION	L.F.	40.8
SEALER RESIN	GAL.	0.5

SEALED EXPANSION JOINT QUANTITY PER EXPANSION JOINT			
DESCRIPTION	UNIT	TR4 W/ OPENINGS	TR4 W/O OPENINGS
SEALED EXPANSION JOINT	L.F.	43.2	41.8

① Quantity includes provision for laps required in longitudinal reinforcing as follows:  
 30' thru 45' Spans - 1/2 lap  
 50' and 55' Spans - 1 lap  
 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.

② Provide and install Bearing Assemblies of the size, shape and location as detailed in the plans. See schedule for estimated total of stainless steel per span per Bearing Assembly type. Include all costs associated with providing and installing the Elastomeric Pads, Anchor Plates, Contact Plates, Contact Angles 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 FIXED BEARING ASSEMBLIES or EXPANSION BEARING ASSEMBLIES as applicable.

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

OKLAHOMA DEPT. OF TRANSPORTATION  
 BRIDGE STANDARD (ENGLISH)  
**SUPERSTRUCTURE QUANTITIES**  
**TYPE II P.C. BEAMS**  
**CONVENTIONAL**

2009 SPECIFICATIONS | B40-C-SPR-QUAN-PCB-II | 03E  
 B-405E