

DIAPHRAGMS, BEARINGS AND SUPERSTRUCTURE QUANTITIES ①					
PRECAST CONCRETE BEAMS			ROLLED BEAMS		
BEAM TYPE	INTEGRAL	CONVENTIONAL	BEAM TYPE	INTEGRAL	CONVENTIONAL
TYPE II	B40-I-ADIA-PC2-1 B-171E	B40-C-DIA-END-PC234-1 B-371E	30' thru 50' SPANS	B40-STL-BM-BRACING B-37E	B40-STL-BM-BRACING B-37E
	B40-I-ADIA-PC2-2 B-172E	B40-C-DIA-END-PC234-2 B-372E		B40-I-ADIA-RB-3050-1 B-179E	B40-C-DIA-RB-1 B-376E
	B40-I-DIA-PCB B-190E	B40-C-DIA-INT-PCB B-375E		B40-I-ADIA-RB-3050-2 B-180E	B40-C-DIA-RB-2 B-377E
	B40-I-BRG-PC2 B-195E	B40-C-BRG-PC2 B-395E		B40-I-DIA-RB B-191E	B40-C-BRG-RB B-399E
B40-I-SPR-QUAN-PCB-II B-205E	B40-C-SPR-QUAN-PCB-II B-405E	B40-I-BRG-RB B-199E	B40-C-SPR-QUAN-RB-1 B-412E	B40-I-SPR-QUAN-RB B-212E	B40-C-SPR-QUAN-RB-2 B-413E
TYPE B	B40-I-ADIA-PC2-1 B-171E	B40-C-DIA-END-PC234-1 B-371E	55' thru 100' SPANS	B40-STL-BM-BRACING B-37E	B40-STL-BM-BRACING B-37E
	B40-I-ADIA-PC2-2 B-172E	B40-C-DIA-END-PC234-2 B-372E		B40-I-ADIA-RB-55100-1 B-181E	B40-C-DIA-RB-1 B-376E
	B40-I-DIA-PCB B-190E	B40-C-DIA-INT-PCB B-375E		B40-I-ADIA-RB-55100-2 B-182E	B40-C-DIA-RB-2 B-377E
	B40-I-BRG-PC2 B-195E	B40-C-BRG-PC2 B-395E		B40-I-DIA-RB B-191E	B40-C-BRG-RB B-399E
B40-I-SPR-QUAN-PCB-B B-206E	B40-C-SPR-QUAN-PCB-B B-406E	B40-I-BRG-RB B-199E	B40-C-SPR-QUAN-RB-1 B-412E	B40-I-SPR-QUAN-RB B-212E	B40-C-SPR-QUAN-RB-2 B-413E
TYPE III	B40-I-ADIA-PC3-1 B-173E	B40-C-DIA-END-PC234-1 B-371E	55' thru 100' SPANS	B40-STL-BM-BRACING B-37E	B40-STL-BM-BRACING B-37E
	B40-I-ADIA-PC3-2 B-174E	B40-C-DIA-END-PC234-2 B-372E		B40-I-ADIA-RB-55100-1 B-181E	B40-C-DIA-RB-1 B-376E
	B40-I-DIA-PCB B-190E	B40-C-DIA-INT-PCB B-375E		B40-I-ADIA-RB-55100-2 B-182E	B40-C-DIA-RB-2 B-377E
	B40-I-BRG-PC3 B-196E	B40-C-BRG-PC3 B-396E		B40-I-DIA-RB B-191E	B40-C-BRG-RB B-399E
B40-I-SPR-QUAN-PCB-III B-207E	B40-C-SPR-QUAN-PCB-III B-407E	B40-I-BRG-RB B-199E	B40-C-SPR-QUAN-RB-1 B-412E	B40-I-SPR-QUAN-RB B-212E	B40-C-SPR-QUAN-RB-2 B-413E
TYPE C	B40-I-ADIA-PC3-1 B-173E	B40-C-DIA-END-PC234-1 B-371E	55' thru 100' SPANS	B40-STL-BM-BRACING B-37E	B40-STL-BM-BRACING B-37E
	B40-I-ADIA-PC3-2 B-174E	B40-C-DIA-END-PC234-2 B-372E		B40-I-ADIA-RB-55100-1 B-181E	B40-C-DIA-RB-1 B-376E
	B40-I-DIA-PCB B-190E	B40-C-DIA-INT-PCB B-375E		B40-I-ADIA-RB-55100-2 B-182E	B40-C-DIA-RB-2 B-377E
	B40-I-BRG-PC3 B-196E	B40-C-BRG-PC3 B-396E		B40-I-DIA-RB B-191E	B40-C-BRG-RB B-399E
B40-I-SPR-QUAN-PCB-C B-208E	B40-C-SPR-QUAN-PCB-C B-408E	B40-I-BRG-RB B-199E	B40-C-SPR-QUAN-RB-1 B-412E	B40-I-SPR-QUAN-RB B-212E	B40-C-SPR-QUAN-RB-2 B-413E
TYPE IV	B40-I-ADIA-PC4-1 B-175E	B40-C-DIA-END-PC234-1 B-371E	55' thru 100' SPANS	B40-STL-BM-BRACING B-37E	B40-STL-BM-BRACING B-37E
	B40-I-ADIA-PC4-2 B-176E	B40-C-DIA-END-PC234-2 B-372E		B40-I-ADIA-RB-55100-1 B-181E	B40-C-DIA-RB-1 B-376E
	B40-I-DIA-PCB B-190E	B40-C-DIA-INT-PCB B-375E		B40-I-ADIA-RB-55100-2 B-182E	B40-C-DIA-RB-2 B-377E
	B40-I-BRG-PC4BT B-197E	B40-C-BRG-PC4BT B-397E		B40-I-DIA-RB B-191E	B40-C-BRG-RB B-399E
B40-I-SPR-QUAN-PCB-IV B-209E	B40-C-SPR-QUAN-PCB-IV B-409E	B40-I-BRG-RB B-199E	B40-C-SPR-QUAN-RB-1 B-412E	B40-I-SPR-QUAN-RB B-212E	B40-C-SPR-QUAN-RB-2 B-413E
TYPE BT-72	B40-I-ADIA-PC5-1 B-177E	B40-C-DIA-END-PC5-1 B-373E	55' thru 100' SPANS	B40-STL-BM-BRACING B-37E	B40-STL-BM-BRACING B-37E
	B40-I-ADIA-PC5-2 B-178E	B40-C-DIA-END-PC5-2 B-374E		B40-I-ADIA-RB-55100-1 B-181E	B40-C-DIA-RB-1 B-376E
	B40-I-DIA-PCB B-190E	B40-C-DIA-INT-PCB B-375E		B40-I-ADIA-RB-55100-2 B-182E	B40-C-DIA-RB-2 B-377E
	B40-I-BRG-PC4BT B-197E	B40-C-BRG-PC4BT B-397E		B40-I-DIA-RB B-191E	B40-C-BRG-RB B-399E
B40-I-SPR-QUAN-PCB-BT B-210E	B40-C-SPR-QUAN-PCB-BT B-410E	B40-I-BRG-RB B-199E	B40-C-SPR-QUAN-RB-1 B-412E	B40-I-SPR-QUAN-RB B-212E	B40-C-SPR-QUAN-RB-2 B-413E
TYPE J	B40-I-ADIA-PC5-1 B-177E	B40-C-DIA-END-PC5-1 B-373E	55' thru 100' SPANS	B40-STL-BM-BRACING B-37E	B40-STL-BM-BRACING B-37E
	B40-I-ADIA-PC5-2 B-178E	B40-C-DIA-END-PC5-2 B-374E		B40-I-ADIA-RB-55100-1 B-181E	B40-C-DIA-RB-1 B-376E
	B40-I-DIA-PCB B-190E	B40-C-DIA-INT-PCB B-375E		B40-I-ADIA-RB-55100-2 B-182E	B40-C-DIA-RB-2 B-377E
	B40-I-BRG-PCJ B-198E	B40-C-BRG-PCJ B-398E		B40-I-DIA-RB B-191E	B40-C-BRG-RB B-399E
B40-I-SPR-QUAN-PCB-J B-211E	B40-C-SPR-QUAN-PCB-J B-411E	B40-I-BRG-RB B-199E	B40-C-SPR-QUAN-RB-1 B-412E	B40-I-SPR-QUAN-RB B-212E	B40-C-SPR-QUAN-RB-2 B-413E

APPROACH SLABS		
COMPONENT	INTEGRAL	CONVENTIONAL
APPROACH SLAB	B40-I-AS B-216E	40-C-AS B-416E

CONCRETE TRAFFIC RAIL			
RAIL TYPE	BEAM TYPE	INTEGRAL	CONVENTIONAL
WITH OPENINGS	TYPE II TYPE B TYPE III AND TYPE C	TR4-2 B-03E B40-I-TR4-O-PC23 B-219E	TR4-2 B-03E B40-C-TR4-O-1 B-419E B40-C-TR4-O-2 B-420E
	TYPE IV TYPE BT-72 AND TYPE J	TR4-2 B-03E B40-I-TR4-O-PC45 B-220E	
	ROLLED BEAMS	TR4-2 B-03E B40-I-TR4-O-RB B-221E	
WITHOUT OPENINGS	TYPE II TYPE B TYPE III AND TYPE C	TR4-2 B-03E B40-I-TR4-WO-PC23 B-225E	TR4-2 B-03E B40-C-TR4-WO B-421E
	TYPE IV TYPE BT-72 AND TYPE J	TR4-2 B-03E B40-I-TR4-WO-PC45 B-226E	
	ROLLED BEAMS	TR4-2 B-03E B40-I-TR4-WO-RB B-227E	

MISCELLANEOUS ITEMS	
EXPANSION JOINT ②	EJ-SQ B-08E EJ-DTL B-10E
STEEL PILING	HP1-2 B-11E
JOINTS AND SEALERS	LECS-4 R-14
PIPE UNDERDRAIN INSTALLATION	PUD-3 R-53

- ① Clearly show on the GENERAL PLAN AND ELEVATION sheet the locations of all Fixed, Continuous Expansion and Expansion Bearing Assemblies. If angle between beam supports due to roadway grade exceeds 1%, detail bevel requirements for Anchor Plates.
- ② Provide schedule of joint opening size required by the temperature at the time of setting the joint. Schedule will include joint openings at 1/8" increments with corresponding ambient air temperature at the time of setting from 0° to 120°. The nominal 2" joint opening will correspond to 60° for steel beams and to 43° for concrete beams.

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

OKLAHOMA DEPT. OF TRANSPORTATION
BRIDGE STANDARD (ENGLISH)
**REFERENCE GUIDE TO
STANDARD SERIES B40
(SHEET 5 OF 5)**

2009 SPECIFICATIONS | B40-GUIDE-5 | 03E
B-19E