

HALF ELEVATION AT ABUTMENT

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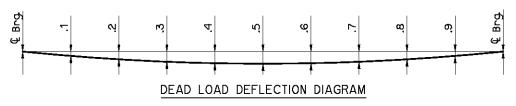
1) Provide Elastomeric Pad with a 50 durometer hardness and consisting of a single layer. Extend pad 1/2" beyond the end of the beam as shown.

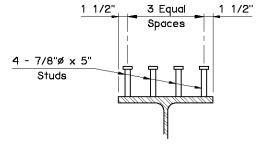
ROLLED BEAM NOTES

Provide structural steel for Rolled Beam and all stiffener plates in accordance with AASHTO M270 (ASTM A709), Grade 50WT2 (Weathering Steel, Non-Fracture Critical Charpy V-Notch tested for Zone 2). Use Shear Connectors conforming to AASHTO M169 (ASTM A108), Grade 1015, 1018 or 1020. Provide welding with weathering characteristics. Camber Beams to account for vertical curve and dead load deflection. The Contractor may substitute Plate Girders using equivalent plate sizes in lieu of the Rolled Beam shape shown at no additional cost to the Department. Provide 5/16" minimum fillet welds between web and

flanges. Non-destructive testing will be required as appropriate.

BEAM SCHEDULE											
SPAN	BEAM	BEAM LENGTH	А	N1	S1	L1	S2	BEARING STIFFENER	ELASTOMERIC PAD	LFD OPERATING RATING	
80'	₩40x215	79'-8"	19'-7 1/2"	29	10"	24'-2"	5"	£ 3/4"x7"	1"x1'-3 3/4"x4'-10 1/2"	HS 33.5	
85'	₩40x249	84'-8"	20'-10 1/2"	32	10"	26'-8"	5"	£ 3/4"x7"	1"x1'-3 3/4"x4'-10 1/2"	HS 36.0	
90'	₩40×277	89'-8"	22'-1 1/2"	35	10"	29'-2"	5"	£ 3/4"x7"	1"x1'-3 7/8"x4'-10 1/2"	HS 36.6	
95'	₩40x297	94'-8"	23'-4 1/2"	38	10"	31'-8"	5"	₽ 3/4"x7"	1"x1'-3 7/8"x4'-10 1/2"	HS 34.5	
100'	₩40x324	99'-8"	24'-7 1/2"	41	10"	34'-2"	5"	£ 3/4"x7"	1"x1'-3 7/8"x4'-10 1/2"	HS 34.4	





SHEAR CONNECTOR DETAIL

Information shown on this sheet
is applicable only to the
standard bridge cross-section
with 40' Clear Roadway, 8" Deck Slab
and 4 Beams at 11'-10" spacing.
Any deviation requires custom
design and details with an appropriate
Dead Load Deflection Diagram.

DEFLECTION SCHEDULE													
SPAN	BEAM AND DIAPHRAGM DEFLECTION							DECK SLAB, HAUNCH, S.I.P. STEEL DECK FORMS ② AND TRAFFIC RAIL DEFLECTION					
	€ BRG.	.1 & .9	.2 & .8	.3 & .7	.4 & .6	.5	€ BRG.	.1 & .9	.2 & .8	.3 & .7	.4 & .6	.5	
80'	0.00"	0.12"	0.22"	0.31"	0.36"	0.38"	0.00"	0.67"	1.26"	1.72"	2.02"	2.12"	
85'	0.00"	0.15"	0.28"	0.39"	0.46"	0.48"	0.00"	0.73"	1.38"	1.89"	2.22"	2.33"	
90,	0.00"	0.19"	0.36"	0.49"	0.57"	0.60"	0.00"	0.82"	1.56"	2.13"	2.49"	2.62"	
95'	0.00"	0.24"	0.45"	0.61"	0.72"	0.76"	0.00"	0.97"	1.83"	2.51"	2.94"	3.08"	
100'	0.00"	0,29"	0.55"	0.75"	0.88"	0.92"	0.00"	1.08"	2.05"	2.80"	3.28"	3.45"	

(2) The Dead Load Deflection shown at the tenth points are the deflections due to Deck Slab + Haunch + S.I.P. Steel Deck Form Allowance + Concrete Traffic Rail. It does not include the Beam weight, Diaphragms or Future Wearing Surface.

OKLAHOMA DEPT. OF TRANSPORTATION
BRIDGE STANDARD (ENGLISH)

ROLLED BEAM DETAILS
80' THRU 100' SPANS
INTEGRAL

2009 SPECIFICATIONS B40-I-RB-80100 02E

NOTE: For additional details, see DIAPHRAGM DETAILS.

> 02E B-148E