

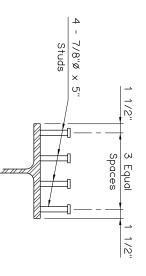
ROLLED BEAM NOTES

ELEVATION

Structural steel for Rolled Beam and all stiffener plates shall conform to AASHTO M270 (ASTM A709), Grade 50WT2 (Weathering Steel, Non-Fracture Critical Charpy V-Notch tested for Zone 2). Shear Connectors shall conform to AASHTO M169 (ASTM A108), Grade 1015, 1018 or 1020. Welding shall have weathering characteristics.

and, if necessary, vertical curve. Beams shall be cambered to account for dead load deflection

Contractor may elect to fabricate Plate Girders using equivalent plate sizes in lieu of Rolled Beam shape shown. Web to flange welds shall be minimum 5/16" fillet welds. Non-destructive testing will be required as appropriate. Costs to construct Plate Girders shall be at the Contractor's expense.



SHEAR CONNECTOR DETAIL

SPAN

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. Skew angle may be as much as 30° if diaphragms are not staggered. Stay-In-Place Deck Forms are permitted if the conditions listed in the STAY-IN-PLACE DECK FORM NOTES on LONGITUDINAL SECTION sheet are satisfied.

Any modification will require a custom design with an appropriate Dead Load Deflection Diagram.

100

0.00"

0.29" 0.24"

0.55" 0.45"

0.75" 0.61"

0.88" 0.72"

0.92" 0.76"

0.00" 0.00"

1.08" 0.97"

2.05" 1.83"

2.80" 2.51"

3.28" 2.94"

3.08" 3.45"

2.33" 2.62"

2.12"

95

0.00"

90' 85 80'

NOTE: For additional details, see DIAPHRAGM DETAILS.

100'	95'	90'	85'	80'	SPAN		
W40x324	W40x297	W40x277	W40x249	W40x215	BEAM		
99'-8"	94'-8"	89'-8"	84'-8"	79'-8"	BEAM LENGTH		
99'-8" 24'-7 1/2" 83	W40x297 94'-8" 23'-4 1/2" 77	W40x277 89'-8" 22'-1 1/2" 71	W40x249 84'-8" 20'-10 1/2" 65	W40x215 79'-8" 19'-7 1/2"	А	В	
		71		59	N1	BEAM SCHEDULE	
10"	10"	10"	10"	10"	S1	CHEDI	
69'-2"	64'-2"	59'-2"	54'-2"	49'-2"	L1	JLE	
69'-2" ₱ 3/4"x7"	₽ 3/4"×7"	59'-2"	54'-2" № 3/4"x7"	49'-2"	BEARING STIFFENER		
HS 34.4	HS 34.5	HS 36.6	HS 36.0	HS 33.5	LFD OPERATING RATING		

2.13"		1.56"	0.82"	0.00"	0.60"	0.57"	0.49"	0.36"	0.19"	0.00"
1.89"	=	1.38"	0.73"	0.00"	0.48"	0.46"	0.39"	0.28"	0.15"	0.00"
	;" 1.72"	1.26"	0.67"	0.00"	0.38"	0.36"	0.31"	0.22"	0.12"	0.00"
	.8 .3 & .7	.2 & .8	.1 & .9	€ BRG.	.5	.4 & .6	.3 & .7 .4 & .6	.2 & .8	.1 & .9	€ BRG.
	HAUNC RAIL	DECK SLAB, HAUNCH, SIP FORMS AND TRAFFIC RAIL DEFLECTION	DECK AND T			ECTION	RAGM DEFL	BEAM AND DIAPHRAGM DEFLECTION	BEAM A	
				HEDULE	DEFLECTION SCHEDULE	DEFLEC				
			GRAM	DEAD LOAD DEFLECTION DIAGRAM	DEFLEC1	LOAD	DEAD			
		_	_	-	-	-	-			
									1	7
.9		.8	.7	.6	5	.4		.2	1	€ Brg.

.6 \bigcirc

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Beam weight, Diaphragms or Future Wearing	Concrete Traffic Rail. It does not include the	+ Haunch + 5 p.s.f. SIP Deck Form Allowance +	points are the deflections due to Deck Slab	The Dead Load Deflection shown at the tenth

12-1-04

OKLAHOMA DEPT. OF TRANSPORTATION
BRIDGE STANDARD (ENGLISH)
ROLLED BEAM DETAILS
80' THRU 100' SPANS
CONVENTIONAL