

W33×130	W30×116	W30×99	W30x90	W27×84	BEAM	
W33×130 49'-8" 24'-3" 24	W30x116 44'-8" 21'-9"	W30x99 39'-8" 19'-3"	W30x90 34'-8" 16'-9"	W27x84 29'-8" 14'-3"	BEAM LENGTH	
24'-3"	21'-9"	19'-3"	16'-9"	14'-3"	Α	
24	1	-		1	N1 S1	
<u>ଡ୍</u>	1	-	1	1	S1	
6" 12'-0" 7" 17	1	-	1	1	L1	
7"	1	-	-	1	S2	
17	43	38	33	28	N3	
8"	6"	6"	6"	6"	S3	
8" 11'-4" 4"	6" 21'-6"	6" 19'-0" 3"	16'-6" 3"	6" 14'-0" 3"	L3	
4"	3.	3"	3"	3"	S4	
17	36	31	26	21	N5	В
ထ္	ଚ୍ଞା	ଚ୍ଞା	<u>ଚ୍</u>	ଚ୍	S5	EAM S
8" 11'-4"	6" 18'-0"	6" 15'-6"	6" 13'-0"	6" 10'-6"	S5 L5	BEAM SCHEDULI
17	1	-	1	-	N6	Ή
<u>ଜ</u> ୍ମ	-	-	-	1	S6	
8'-6"	1	1	1	1	L6	
₽ 3/4"x5"	₽ 3/4"x4 1/2"	₹ 3/4"x4 1/2"	₹ 3/4"x4 1/2"	₽ 5/8"x4"	BEARING STIFFENER	
3/4"x11 1/2"x2'-10 1/2"	3/4"x10 1/2"x2'-10 1/2"	3/4"x10 1/2"x2'-10 1/2"	3/4"x10 3/8"x2'-10 1/2"	3/4"×10"×2'-10 1/2"	ELASTOMERIC PAD	
HS 38.9	HS 38.1	HS 40.2	HS 49.7	HS 59.2	LFD OPERATING RATI	

RATING

ELEVATION

SPAN

## ROLLED BEAM NOTES

50'

45

40 35' 30'

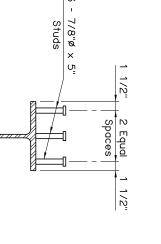
Structural steel for Rolled Beam and all stiffener plates shall conform to AASHTO M270 (ASTM A709), Grade 50WT2 (Weathering Steel, Non-Fracture Critical Charpy V-Notch tested for Zone 2). Shear Connectors shall conform to AASHTO M169 (ASTM A108), Grade 1015, 1018 or 1020. Welding shall have weathering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

If cambering is not required, place natural camber up. Beams shall be cambered to account for vertical curve, if necessary.

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. Contractor may elect to fabricate Plate Girders using equivalent

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.



SHEAR CONNECTOR DETAIL

NOTE: For additional details, see DIAPHRAGM DETAILS.

	<b></b> -	& Brg.
		1
		.2
J		.3
DFAD IO		.4
OAD DEFI		.5
FCTION		.6
DIAGRAM		.7
≤		.8
		.9
		-

€ Brg.

	.2
ıD	.3
DEAD LOAD	.4
	.5
DEFLECTION	.6
DIAGRAM	.7
≤	.8
	.9

					DEFLEC	CON SC	DEFLECTION SCHEDULE					
CD AN		BEAM A	BEAM AND DIAPHRAGM DEFLECTION	RAGM DEFI	_ECTION			DECK AND T	DECK SLAB, HAUNCH, SIP FORMS AND TRAFFIC RAIL DEFLECTION	NCH, SIP F	ORMS (2)	-
Q I	€ BRG.	.1 & .9 .2 & .8 .3 & .7 .4 & .6	.2 & .8	.3 & .7	.4 & .6	.5	€ BRG.	.1 & .9	.1 & .9 .2 & .8 .3 & .7 .4 & .6	.3 & .7	.4 & .6	.5
30'	0.00"	0.01"	0.01"	0.01"	0.01"	0.02"	0.00"	0.07"	0.13"	0.17"	0.20"	0.21"
35'	0.00"	0.01"	0.01"	0.02"	0.02"	0.02"	0.00"	0.10"	0.19"	0.26"	0.30"	0.32"
40'	0.00"	0.01"	0.02"	0.03"	0.04"	0.04"	0.00"	0.16"	0.30"	0.41"	0.48"	0.50"
45'	0.00"	0.02"	0.04"	0.05"	0.06"	0.07"	0.00"	0.21"	0.39"	0.54"	0.63"	0.66"
50'	0.00"	0.03"	0.05"	0.07"	0.08"	0.08" 0.00"	0.00"	0.24"	0.45"	0.62"	0.72"	0.76"

(5)

The Dead Load Deflection shown at the tenth points are the deflections due to Deck Slab + Haunch + 5 p.s.f. SIP Deck Form Allowance + Concrete Traffic Rail. It does not include the Beam weight, Diaphragms or Future Wearing Surface. 12-1-04

OKLAHOMA DEPT. OF TRANSPORTATION
BRIDGE STANDARD (ENGLISH)
ROLLED BEAM DETAILS
30' THRU 50' SPANS
INTEGRAL