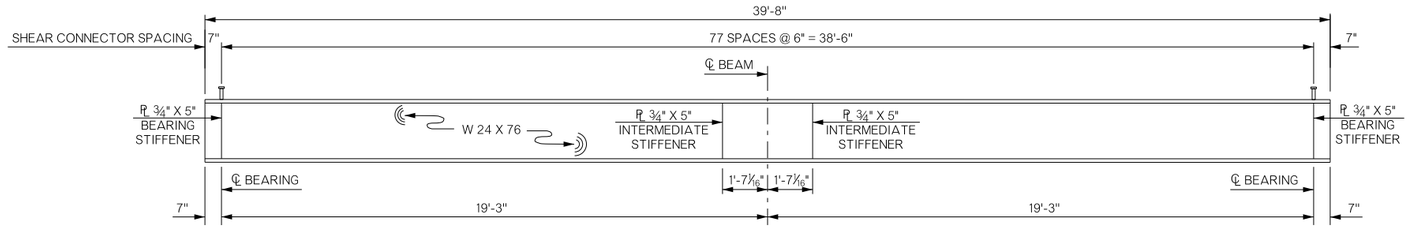
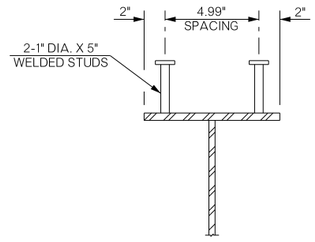
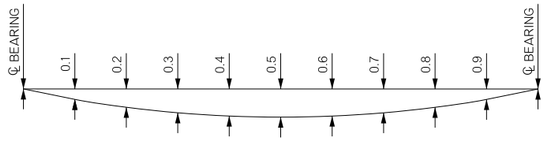
REVISIONS		
REV. NO.	DESCRIPTION	DATE



TYPICAL BEAM ELEVATION



SHEAR CONNECTOR
DETAIL



DEAD LOAD DEFLECTION DIAGRAM

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, IF NECESSARY. IF CAMBERING IS NOT REQUIRED, PLACE NATURAL CAMBER UP.

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 ⅝" MINIMUM FILLET WELDS BETWEEN WEB AND FLANGES. NON-DESTRUCTIVE TESTING WILL BE REQUIRED AS APPROPRIATE.

FOR ADDITIONAL DETAILS, SEE DIAPRAGM DETAILS SHEET.

DEFLECTION SCHEDULE

SPAN	BEAM AND DIAPHRAGM DEFLECTION											DECK SLAB, HAUNCH, S.I.P. STEEL DECK FORMS AND TRAFFIC RAIL PARAPET DEFLECTION ①										
	℄ BRG.	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	℄ BRG.	℄ BRG.	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	℄ BRG.
40'	0"	0.039"	0.075"	0.102"	0.120"	0.126"	0.120"	0.102"	0.074"	0.039"	0"	0"	0.154"	0.293"	0.402"	0.470"	0.494"	0.471"	0.401"	0.293"	0.154"	0"

① 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.

BRIDGE "A" BRYAN COUNTY
SH-78 OVER CHUCKWA CREEK

ROLLED BEAM DETAILS

Design	CJO	6/15
Detail	DPG	8/15
Check	TEE	9/15
Squad	HENSLEY	
Engr.	DEFRANCO	

STATE OF OKLAHOMA | DEPARTMENT OF TRANSPORTATION

JOB PIECE NO. 27912(04) SHEET NO. B022