

11/23 9/ 24 3/23

DESIGN DATE DETAIL DATE QUANTITY DATE

PLOT

			B-509-SB
	<u>DESIGN DATA:</u>		
AASHTD, Ninth Edition LRFD, 2020			
	Design Method:	Load and Resistance (for sister beam)	Factor Design
	Live Load:	HL-93 (design truck or tandem, and design lane load)	
	Dead Load:	Assumes 36 psf for bridge deck overlay	
1	Structural Steel:	AASHTO M270 Grade (ASTM A500 Grade (
him		fy = 50,000 psi	
him him	Note to Design	er & Detailer:	
ring block. ug fit ringers. ated	1	his sheet is for a timber bridge with nominal	
	span lengths of 23'.		
	To change to a length of 19':		
be used i - Change H All field i HSS12x62 eated per i - Change ti i a HSS102 06 i - Change ti		$12x6x_8^{3}$ x 24'-0" to x 20'-0" in the Partial Plan HSS10x6x $_{6}^{5}$ bearing block to 5_{6}^{5} in the End Section quantity in the Information to 956 Lb per beam.	
and other hazardous substances. Follow requirements in a safety of workers.			
considered a safety critical procedure. All relevant safety			
d cross bracing lumber.			
ger 1C, 1F, 1G, 1H, 1L, 2C, 2F, 2J, 3C, 3F, and 3J.			
per stringer at midspan and place the all-thread rod through er. Add plate washers, washers, and nuts. Tighten nuts to snug			
block. Field cut to a snug fit between timber stringers. Add steel $ _8''$ steel shims above the bearing block until the member is ends of the steel member and place an additional $ _8''$ steel shim ad.			
nal 4"x4" Select Structural No. 2 lumber horizontal diaphragm. Field er stringers and connect to the timber stringers by toe nailing deck screws.			
to a snug fit between the timber stringer and steelmember, 1 two 30d nails or 4" deck screws. The replacement of timber utment. Replacement diaphragms may utilize existing material, t be followed.			
connection hardware, steel quantities, and installation shall be ural Steel (Galvanized).			
2'-1".			
protects str	ingers that are no	ot split. If a stringer	י ו with a split is
beam is not to be placed at the wheelline stringer.			

Project No./Code TIMBER STRINGER REPAIR STEEL SISTER BEAM Project Number XXXXXXXX X-XX-XX Structure Code Numbers XXXXXXXX X-XX-XX Sheet Number Subset Sheets: BXX of XXX BRIDGE