A2B ENGINEERING, LLC CONSULTING ENGINEERS	Subject: Girder Bracing Design		
	Comp by: MLS	Date: 09/13/18	Sheet Number: of
	Check by: PRS	Job Number: 135-17-1	

Analysis No. =	4	
Description =	Bridge 4	
Left Girder Height =	48	[in]
Right Girder Height =	36	[in]
Girder Spacing =	7	[ft]
Distance from top of left girder to bracing =	12	[in]
Distance from bot. of left girder to bracing =	12	[in]
Distance from bot. of right girder to bracing =	12	[in]
Distance from bot. of right girder to bracing =	12	[in]
Overturning Moment =	50	[ft*kip]
Horizontal Force =	8	[kip]
Brace E =	29000	[ksi]
Brace A =	5	[in^2]
Brace I =	50	[in^4]
Brace Type =	HDPB 5'-9'	
Lines of horizontal Bracing per brace line =	1	
Lines of diagonal bracing per brace line =	1	

	Member		
	1	2	3
Tensile Strength	10.300	10.335	10.335
Max Tension	7.706	7.583	2.331
Compressive Strength	9.980	10.300	10.214
Max Compression	-2.466	-2.427	-0.747

Lines of bracing required =	1
Stiffness =	4825836.947
Check =	OK