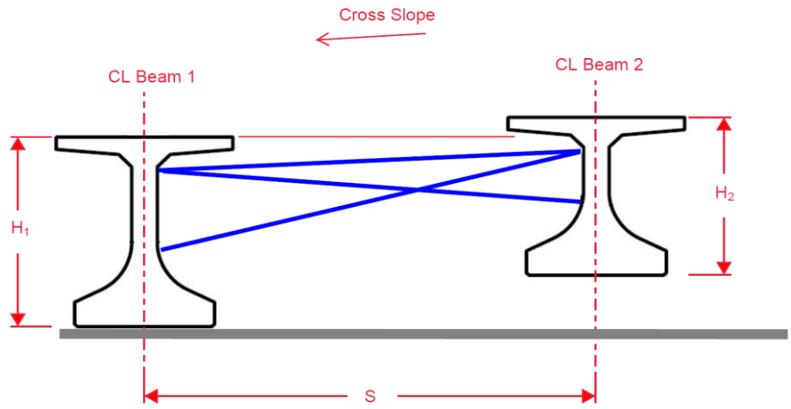
A2B ENGINEERING, LLC CONSULTING ENGINEERS	Subject: Girder Bracing Design		
	Comp by: MLS	Date: 09/13/18	Sheet Number: of
	Check by: PRS	Job Number: 135-17-1	



Analysis No. =		1	
Description =		Bridge 1	
Left Girder Height =		54	[in]
Right Girder Height =		54	[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]
Tensile Strength ning Moment =		90	[ft*kip]
Max Tension rizontal Force =		8	[kip]
Lines Required			
Compressive Strength	Brace E =	29000	[ksi]
Max Compression	Brace A =	0.944	[in^2]
Lines Required	Brace I =	0.742	[in^4]
Brace Type =		HDPB 5'-9'	
Lines of horizontal Bracing per brace line =		2	
Lines of diagonal bracing per brace line =		3	

Member		
1	2	3
9.934	10.335	10.137
8.833	2.620	0.729
1	1	1
9.577	9.934	9.801
-1.767	-0.524	-0.146
1	1	1

Lines of bracing required = 1

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Stiffness =	1740313	[kip-ft/rad]
Span Length =	150	[ft]
Bracing Point Type =	End Points only	
Empirical Scale Factor =	1	
Pu =	75	[psf]
Pavg =	37.5	[psf]
Beam Weight =	971	[plf]
C0 =	2.213540411	
C =	7.113606837	>1
Check =	OK	