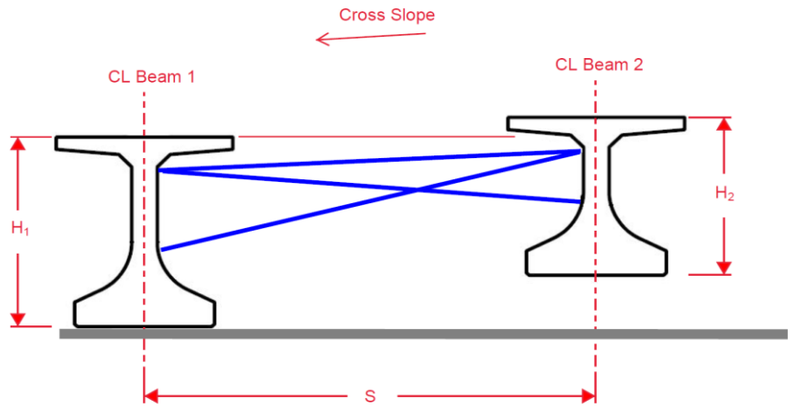
A2B ENGINEERING, LLC CONSULTING ENGINEERS	Subject: Girder Bracing Design		
	Comp by: MLS Check by: PRS	Date: 09/13/18 Job Number: 135-17-1	Sheet Number: of



Analysis No. =		3	
Description =		Bridge 3	
Left Girder Height =		54	[in]
Right Girder Height =		48	[in]
Girder Spacing =		6.5	[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 =		70	[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 15'-26'	
Lines of horizontal Bracing per brace line =		1	
Lines of diagonal bracing per brace line =		1	

Member		
1	2	3
Not Applicable	Not Applicable	Not Applicable
10.278	9.422	2.492
-	-	-
Not Applicable	Not Applicable	Not Applicable
-2.643	-2.423	-0.641
-	-	-

Lines of bracing required = Geometry Error

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	

Stiffness =	1257047	[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 =	5.613097165	>1
Check =	OK	