



*Sedgwick County...  
working for you*

---

## Public Works

1144 S. Seneca, Wichita, KS 67213-4443 - [www.sedgwickcounty.org](http://www.sedgwickcounty.org) - TEL: 316-660-1777 - FAX: 316-660-1875

David C. Spears, P.E.  
Director/County Engineer

### ADDENDUM NO. 1

Sedgwick County Project: 817-W-559; Bridge on Meridian between 63<sup>rd</sup> & 71<sup>st</sup> Streets South  
(B462)

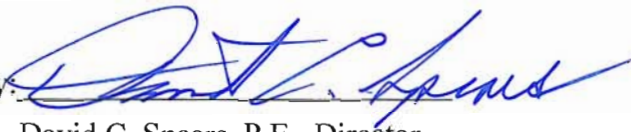
The items contained herein now become a part of the referenced plans and specifications. Please read the following items and acknowledge receipt of this addendum on the Proposal Page Number P-1. NOTE: THIS ADDENDUM MUST BE ACKNOWLEDGED TO CONSTITUTE A VALID BID.

Supplemental information is being provided regarding the loads on the bearing devices for the Meridian Bridge repair project.

The additional information includes the attached data which consists of the vertical and horizontal loading, rotation and the anticipated movement at the bearing devices location. The intention of the design is to replace the existing deteriorated bearing device with new ones in-kind which should fit within the available space taking into consideration that the new bearing devices are capable of handling the provided loadings and movements.

### **SPECS:**

Add Sheet GN-1

By:   
David C. Spears, P.E., Director,  
Public Works/County Engineer

Date: November 13, 2015

## ELASTOMERIC BEARING ASSEMBLY LOAD CHART

Location		Hinge				
Bearing Type		Longitudinally Guided				
Quantity		12				
Service Limit State	Vertical Load	Dead	22.2			
		Live	61.7			
		Total	84			
	Vertical Uplift					
	Horizontal Load	Longitudinal	8.4			
		Transverse				
Movement (each way from center)	Longitudinal	3.69" Exp., 2.46" Contr.		Includes 1.2 Factor		
	Transverse					
Strength Limit State	Vertical Load	Dead	28.4			
		Live	108.0			
		Total	136.4			
	Vertical Uplift					
	Horizontal Load	Longitudinal	13.6			
		Transverse				
	Rotation	Due to all Applicable Loads	0.022		Note: These are FACTORED (strength) rotations and are theoretical. Actual dead load rotations can be minimized by proper bearing placement in field. SERVICE LL rotations theoretically calculated at 0.012	
Due to Fabrication Tolerances		0.005				
Total		0.027		See note above.		
Extreme Limit State	Vertical Load	Dead				
		Live				
		Total				
	Vertical Uplift					
	Horizontal Load	Longitudinal				
Transverse						
Type of Attachment to Structure						
Bolt Specification and Diameter						
Girder Flange Width			11.5"			
Longitudinal Slope (Beveled Sole Plate)						
Transverse Slope (Beveled Sole Plate)						
Angle Between Sole Plate Centerline and Guided Direction*						
Attachment Type to Substructure						
Anchor Rod Diameter						
Anchor Rod Specification and Grade						
Compressive Strength of Concrete						
Pedestal Length x Width						

**Notes:**

All Loads in Kips

All Movements in Inches

All Rotations in Radians

\* Coinciding Sole Plate, Masonry Plate and Girder Longitudinal Centerlines Assumed

Bearing Types: Fixed, Longitudinally Guided, Transverse Guided, Non-Guided

ASTM A709 Grade 50/50W will be assumed for all plates