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Public Works

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

ADDENDUM NO. 1

Sedgwick County Project: 817-W-559; Bridge on Meridian between 63rd & 71st 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