Fabricator _____ **Shop No.** _____

Bridge No. _____ **Station** _____ **Route** _____

Project _____ **County** _____

Job No. _____ **Contract ID** _____

_____ **Bolt Diameter** **Bolt Length** _____ **Bolt Grade** ☐ **A325** ☐ **A490**

Job Site Rotational Capacity Test (RoCap Test) – Short Bolts						
Calibrated Wrench Method (Sec 712.7.5) and Turn-Of-Nut Method (Sec 712.7.6)						
TEST No.	**Sec 1080.2.5.4.5 Turn Test Tension (P)**	**20% of Max. Turn Test Torque (T)**	**Maximum Calculated Turn Test Torque**	**Greater Than**	**Torque Gauge Reading at End of First Rotation**	**Visual Inspection of nut and bolt after Second Rotation (Acceptable/Not Acceptable)**
1				>		
2				>		
3				>		
R1				>		
R2				>		
R3				>		
20% Torque Formula (T = 0.20T), T in ft-lbs.						
Torque Formula (T=0.25P x Dia./12), T in ft-lbs., P in lbs., Dia. in inches						
First Rotation	[L<= 4D, 1/3 turn (120°)], [4D< L<8D, 1/2 turn (180°)], D = Bolt Dia., L = Bolt Length					
Second Rotation	A325 [L<= 4D, 1/3 turn (120°)], [4D< L<8D, 1/2 turn (180°)] A490 [L<= 4D, 1/4 turn (90°)], [4D< L<8D, 1/3 turn (120°)]					

Load Indicating Bolt Method (712.7.7)				
Test No.	**Sec 712.7.3 1.05xMinimum Bolt Tension (P)**	**Less Than**	**Bolt Tension Gauge Reading (P)**	**Inspection Torque Calculated Value**
1		<		
2		<		
3		<		
R1		<		
R2		<		
R3		<		
(Inspection Torque formula = 0.95 x 0.25 x Gauged Tension Reading x Bolt Dia. / 12; Bolt Dia. in inches)				

Bolt Manufacturer _____

Bolt Length _____ **Quantity** _____

Bolt Heat No. _____

Bolt Lot No. _____

Nut Manufacturer _____

Nut Heat No. _____

Nut Lot No. _____

Washer _____

Washer Heat No. _____

Washer Lot No. _____

Location of Testing _____

Recommendation/Remarks:

Responsible Person _____

Date: _____

Distribution: eProjects

Note: Job site rotational-capacity testing = testing of 3 bolts, nuts and washers per R-C lot number. If all bolts fail, the lot is unacceptable. If one bolt fails, the contractor has the option to test 3 additional bolts. All 3 of these additional bolts must pass for lot to be acceptable.