

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) – Long Bolts											
Calibrated Wrench Method (Sec 712.7.5) and Turn-Of-Nut Method (Sec 712.7.6)											
TEST No.	Part 1							Part 2			
	Sec 712.7.3 Minimum Bolt Tension (P)	LESS THAN	Bolt Tension Gauge Reading (P)	Sec 1080.2.5.4.6 Maximum Allowable Torque (T)	Greater Than	Torque Gauge Reading	Actual Nut Rotation (turn)	Sec 712.7.6 Nut Rotation (turn) Less than actual (Y/N)	Sec 1080.2.5.4 Required Rotation (turn) Tension Gauge Reading	Equal or Greater Than	Sec 1080.2.5.4.5 Required Turn Test Tension
1		<			>					>=	
2		<			>					>=	
3		<			>					>=	
R1		<			>					>=	
R2		<			>					>=	
R3		<			>					>=	

Torque Formula (T=0.25P x Dia./12), T in ft-lbs, P in lbs, Bolt Dia. in inches

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.