

INSPECTOR CHECKLIST: 518 - BRIDGE EXPANSION DEVICES

Inspection Item	Yes	No	N/A	Remarks
PRE-CONSTRUCTION				
1				Familiar with Structural Worksheets B-518 and B-601?
2				Working Drawings and materials submitted and approved?
3				Weld Procedures and Welding Certifications submitted?
4				Is the joint layout at the proper alignment, grade, and dimensions?
5				Bridge survey completed to ensure proper fit of device?
6				All debris has been removed and joint area cleaned prior to pour and install?
7				Materials inspected and stored in good condition?
CONSTRUCTION				
8				For removal of existing expansion device:
				• Is the proper sized equipment on site (15 lb. pneumatic hammers)?
				• Has all demo debris been removed?
				• Has all formwork been removed?
9				Manufacturer's representative on site during installation?
10				"A" and "W" gaps are correctly sized for weather and temperature at time of concrete placement?
11				Concrete has been well consolidated around device?
12				Expansion fittings are installed around all utilities in concrete area?
13				Contractor is NOT using sharp tools to install that may damage device?
14				Device has been installed flush with riding surface? Survey has checked grade/elevations?
15				If any welding, has welding been performed per specifications and performed by CWI? Have all certification documents been submitted and approved?
POST-CONSTRUCTION				
16				Have support brackets been removed after initial concrete set?
17				Have bulges in device been identified and corrected as needed?
18				Has Watertight Integrity Testing been performed per 518.09?
19				Has the Contractor provided Certification that the device has been installed properly?

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<p>PLEASE NOTE THAT THE INTENT OF THESE CONSTRUCTION QUALITY ASSURANCE OBSERVATION CHECKLISTS ARE TO ASK QUESTIONS REGARDING OBSERVATION DUTIES THAT WILL PROMPT THE CONSTRUCTION OBSERVERS TO RESEARCH SOURCE DOCUMENTS TO DETERMINE ANSWERS. THEY DO NOT SERVE AS A REPLACEMENT TO REVIEWING AND KNOWING ALL SPECIFICATIONS AND SOURCE DOCUMENTS. SOURCE DOCUMENTS INCLUDE, BUT ARE NOT LIMITED TO: ATSSA QUALITY STANDARDS FOR WORK ZONE TRAFFIC CONTROL DEVICES; M&S STANDARDS; CONSTRUCTION BULLETINS; CONSTRUCTION MANUAL; SURVEY MANUAL; EROSION CONTROL MANUAL; HMA PAVING HANDBOOK; MUTCD; MATERIALS MANUAL; MATERIALS BULLETINS; PROJECT PLANS; STANDARD SPECIFICATIONS; PROJECT SPECIAL PROVISIONS; PROJECT STAND SPECIAL PROVISIONS; ETC. THE OBSERVER SHOULD ALSO CONSULT WITH THE CONSTRUCTION QUALITY ASSURANCE MANAGER AND OTHER EXPERIENCED PERSONNEL IF FURTHER CLARIFICATION IS REQUIRED.</p>				