

HISTORY KEPT YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	<b>ILLINOIS HIGHWAY INFORMATION SYSTEM STRUCTURE INFORMATION AND PROCEDURE MANUAL</b>	
NBIS REQUIRED YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	ITEM NAME <b>CULVERT CONDITION</b>	ITEM NO. <b>62</b> PAGE <b>1 of 3</b> EFF. DATE <b>07/01/07</b>
ISIS		
RESPONSIBLE FOR UPDATE	<b>District Local Roads</b>	<b>District Maintenance / Operations</b>
STRUCTURES	<b>Local</b>	<b>State</b>
UPDATE SCREENS	<b>(12) Inspection / Appraisals</b>	<b>(12) Inspection / Appraisals</b>
INQUIRY SCREENS	<b>(4) Inspection / Appraisals</b>	<b>(4) Inspection / Appraisals</b>
<b><u>DESCRIPTION AND PURPOSE OF ITEM</u></b>		
<p>This item evaluates the alignment, settlement, structural condition, scour, and other items associated with culverts. The rating code is intended to be an overall condition evaluation of the culvert. Wingwalls integral with the culvert to the first wingwall construction or expansion joint shall be included in the evaluation. For a detailed discussion regarding the inspection and rating of culverts, consult the <i>Bridge Inspector's Reference Manual</i> (Publication FHWA NHI 03-002).</p> <p>The elements listed on the inspection form for culverts may be recorded on the form using the rating scales described under "Element Ratings - General" (refer to Item No. Composite which follows Item No. 58-62, Item Name "Condition Ratings – General." Also see Appendix E, Form BBS-BIR-1). These elements include the top slab, soffit of top slab, sidewalls/arch, bottom slab, headwalls and wingwalls. Element condition may affect the overall condition rating.</p> <p>Needed repairs should be recorded on designated forms and reported to appropriate personnel in accordance with the policies of the maintaining agency.</p> <p>History is retained for this item based on each Inspection Date - Item 90.</p>		
<b><u>CODE AND SCREEN ENTRY INSTRUCTIONS</u></b>		
<p>Ridged Frame 3 sided structures shall not be treated as a culvert.</p> <p>A one-digit field.</p> <p>Code "N" in Item 58 (Deck), Item 59 (Superstructure), and Item 60 (Substructure) for all culverts.</p> <p>Rate and enter the condition code in accordance with the previously described Condition Ratings – General (Item No. 58-62, pages 1 of 2 and 2 of 2) and the following descriptive codes:</p>		
<u>Code</u>	<u>Description</u>	
<b>N</b>	NOT APPLICABLE. Use when structure is not a culvert.	
<b>9</b>	EXCELLENT. No deficiencies	
<b>8</b>	VERY GOOD. No noticeable or noteworthy deficiencies which affect the condition of the culvert, insignificant scrape marks caused by drift.	

**ILLINOIS HIGHWAY INFORMATION SYSTEM  
STRUCTURE INFORMATION AND PROCEDURE MANUAL**

ITEM NAME    **CULVERT CONDITION**

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**CONDITION RATING GUIDES FOR CULVERTS (cont'd)**

<u>Code</u>	<u>Description</u>
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- |          |  |
|----------|--|
| <b>7</b> | GOOD. Non structural cracks at > 10' spacing, light scaling, and insignificant spalling which does not expose reinforcing steel, metal culverts have a smooth symmetrical curvature with superficial corrosion and no pitting, insignificant damage caused by drift with no misalignment and not requiring corrective action, some minor scour has occurred near curtain walls, wingwalls, or pipes.   |
| <b>6</b> | SATISFACTORY. Non-structural cracking with some leaching at >5' spacing over the majority of the top slab, spalls and delaminations may be present on up to 5% of the concrete or masonry walls or slabs exposing primary reinforcement with surface rust only, up to 10% of the surface area of walls and slabs may be map cracked, spalled and delaminated, metal culverts have a smooth curvature, non-symmetrical shape, minor corrosion or measurable pitting, local minor scour at curtain walls, wingwalls, or pipes  |
| <b>5</b> | FAIR. Non-structural cracking with leaching at < 5' intervals over the majority of the slab or wall surfaces, isolated structural cracks < 0.03" in walls or slabs, spalls and delaminations on the bottom concrete slabs with up to 10% loss of primary reinforcement over a 6' width, spalls on concrete walls with up to 10% loss of concrete or reinforcement area, up to 10% of the top surface area of the top slab may be spalled and delaminated, metal culverts have significant distortion and deflection in no more than one section, or significant corrosion or deep pitting, up to 10% average section loss, up to 1/2 the wall thickness in one section, minor settlement or misalignment, noticeable scour or erosion at curtain walls, wingwalls, or pipes without undermining. |
| <b>4</b> | POOR. Structural cracks in top slab up to 0.06", structural cracks in walls up to 0.125", section loss of primary reinforcement up to 30%, up to 25% of compression surface area spalled or delaminated on slabs and walls(tension areas may be totally spalled), metal culverts have significant distortion and deflection on more than one section, extensive corrosion or deep pitting throughout up to 30% section loss on average, considerable settlement or misalignment, considerable scour or erosion at curtain walls, wingwalls or pipes with undermining.  |

