

INTEROFFICE MEMORANDUM

DATE: April 7, 1992

TO: All Bridge Designers

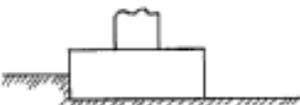
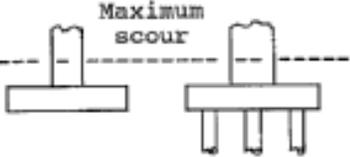
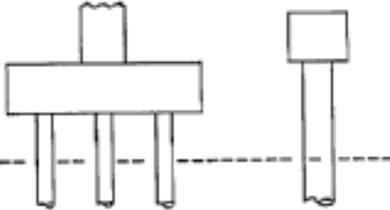
FROM: Mike Coogan, Scour Evaluation Task Force Chairman

SUBJECT: Structure Inventory and Appraisal Item 113

Bridge inspection forms now contain Item 113, Scour Critical Bridges. This item defines the location of the maximum calculated scour for a bridge and the consequences of that scour. The attached form should be filled out for all bridges designed from this date forward. Read the form carefully and give a completed copy to the Scour Evaluation Task Force member whose district includes the bridge (this information is shown at the bottom of the form). The value you select for Item 113 will be entered into the OASIS file and forwarded to the FHWA. The choices shown on the form for Item 113 apply only to bridges which are stable for the maximum scour shown in your design file (unstable bridges require different values for Item 113). More information on Item 113 can be found in the SAI Coding Guide. See me if you have any questions.

**STRUCTURE INVENTORY AND APPRAISAL ITEM 113
FOR NEW BRIDGES (I113MEC)**

Select the appropriate value (N, 9, 8, or 5) for the new bridge you are designing and fill in all blanks at the bottom of the page. See the descriptions below. Use the bent that gives the lowest value; disregard end bents if they are ripped.

ITEM 113	DESCRIPTION
N	Bridge not over water
9	Foundations (including piles) above Q500 stage
8	<p>Scour not calculated because foundations are spread footings on rock with an RQD greater than or equal to 50</p>  <p>Spread footings on soil or rock with an RQD < 50, or foundation pile footings and with the maximum scour depth above the top of the footing</p> 
5	<p>Spread footings on soil, or rock with an RQD < 50, with the maximum scour depth falling between the top and bottom of the footing</p>  <p>Foundation pile bents or trestle pile bents with the maximum scour depth falling on the piles</p> 

Job Number _____ Layout Drawing Number _____

Design Engineer _____ Date _____ Item 113 _____

Dist. _____ Co. _____ Rte. _____ Bridge Number _____

Give a copy to M. Coogan for districts 1 & 9; C. Sherwood 2 & 3;
D. Ball 4 & 7; R. Wylie 5 & 8; J. Beatty 6 & 10