### CHAPTER 10 SUPPLEMENTAL INFORMATION

#### **10.1 INTRODUCTION**

This chapter shall be a collection of Supplemental Memorandums expanding topics that require further explanation. Each supplement shall be contained in a subsequent section starting in section 10.2 and shall contain the title of the supplement and the date of issuance.

For example, 10.X Supplement on XYZ Topic/Item dated month/day/year. The issuer of the supplement memorandum shall always be the Bridge Inspection Engineer or the State Bridge Engineer. The supplement may also be in the form of an email sent to all individuals participating in the Bridge Inspection Program. All supplements shall be summarized in the table below and shall be continually updated in the table as well as in the succeeding sections.

	Supplemental Memorandum Log Index	
Section Number	Supplemental Item	Date of Issue
Section 10.2	Coding for Multi beam bridges	05/01/2009
Section 10.3	Team Member Initials on Inspection reports	11/01/2009
Section 10.4	Superstructure Coding for NE Bulb Tee Pre- stressed Girder Bridges	01/15/2010
Section 10.5	Shielding Reporting and Coding	02/16/2011
Section 10.6	Coding Clarification for Parapets and Bridge Railing	11/12/2013
Section 10.7	Inspect What You CanWhen It Is Due!	11/17/2014
Section 10.8	BRI: Definitions and Method of Measuring Length of Span	4/6/16
Section 10.9	NBIS Data Uploading Process Change	9/25/17
Section 10.10	Non-Redundant Steel Tension Members (NSTM) Inspection Procedures	1/1/2025

Chart 10-1: Supplemental Memorandum Log Index



### 10.2 CODING FOR MULTI BEAM BRIDGES ISSUED 5/1/09

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	THE COMMONWEALTH OF MASSACHUSETTS MASSACHUSETTS HIGHWAY DEPARTMENT INTEROFFICE MEMORANDUM
	TO: Bridge Inspection Staff
	THRU: Alexander K. Bardow, P.E. Director of Bridges and Structures
	THRU:       Alexander K. Bardow, P.E. Director of Bridges and Structures         FROM:       Brian B. Clang, P.E., Bridge Inspection Engineer V Jun N. Clang
	DATE: May 1, 2009
	RE: Coding for Multi Beam Bridges
	<ul> <li>There has been a bit of inconsistency with the inspection reporting for multi beam or multi girder bridges. I have noticed that inspectors will use either Item 59.1 Stringers or Item 59.4 Girders or Beams on their reports for these types of structures. This memo is an attempt to standardize our approach to coding these elements.</li> <li>I recommend that longitudinal elements that span from superstructure to superstructure should be called Stringers (Item 59.1), whereas longitudinal elements that span from substructure to substructure should be called either Beams or Girders (Item 59.4).</li> <li>In some cases how you define the supporting elements can get a little complicated. How should we define cross girders or bents? Should they be defined as superstructure or substructure? The key for me is the presence of bearings. Cross girders that are supported by bearings should be considered superstructure elements. The element that supports the bearings would be the substructure for that system. Bents should be</li> </ul>
	considered to be substructure units. The classic case for the use of stringer coding will be in a stringer/floorbeam structural system such as on trusses. The floorbeams are obviously considered to be superstructure elements. For Beam/Girder descriptions I offer the following clarification. If the beam/girder element is a rolled beam shape, then it should be referred to as "beam". If the beam/girder element is made of built-up components/shapes (welded, riveted, or bolted), then it should be referred to as "girder". A pre-stressed AASHTO type IV beam should be coded as a "beam". A larger pre-stressed shape like a New England Bulb Tee should be coded as a "girder".
	There are probably structural systems that do not fit the above descriptions. For such cases use your best judgment based upon the guidelines offered above.
	BBC/bbc

Attachment 10-2: Coding for Multi Beam Bridges Supplement dated 5/01/09



### 10.3 TEAM MEMBER INTIALS ON INSPECTION REPORTS ISSUED 11/1/09

THE COMMONWEALTH OF MASSACHUSETIS DISTRICTION OF COMMONSACHUSETIS DISTRICTION OF COMMONSACHUSEDIS DISTRICTION OF COMMONSACHUSED			2
THRU:       Alexander K. Bardow, P.E., Director of Bridges and Structures         FROM:       Brian B. Clang, P.E., Bridge Inspection Engineer         DATE:       November 1, 2009         RE:       Team Member initials on Inspection Reports         Effective this date all inspection reports completed shall be initialed by each Team         Member who assisted the Team Leader with the inspection. By initialing the report the Team Member confirms that he/she participated during the inspection and that the individual has read the final inspection report.	a.	MASSDOT, HIGHWAY DIVISION	
<ul> <li>FROM: Brian B. Clang, P.E., Bridge Inspection Engineer Min B. Clang, DATE: November 1, 2009</li> <li>RE: Team Member initials on Inspection Reports</li> <li>Effective this date all inspection reports completed shall be initialed by each Team Member who assisted the Team Leader with the inspection. By initialing the report the Team Member confirms that he/she participated during the inspection and that the individual has read the final inspection report.</li> </ul>	TO:	Bridge Inspection Staff	
DATE:       November 1, 2009       U         RE:       Team Member initials on Inspection Reports         Effective this date all inspection reports completed shall be initialed by each Team         Member who assisted the Team Leader with the inspection. By initialing the report the         Team Member confirms that he/she participated during the inspection and that the         individual has read the final inspection report.	THRU:	Alexander K. Bardow, P.E., Director of Bridges and Structures	
DATE:       November 1, 2009       U         RE:       Team Member initials on Inspection Reports         Effective this date all inspection reports completed shall be initialed by each Team         Member who assisted the Team Leader with the inspection. By initialing the report the         Team Member confirms that he/she participated during the inspection and that the         individual has read the final inspection report.	FROM:	Brian B. Clang, P.E., Bridge Inspection Engineer Min TS. Cla	ing
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Attachment 10-3: Team Member Initials on Inspection Reports Supplement dated 11/01/09



#### 10.4 SUPERSTRUCTURE CODING FOR NE BULB TEE PRE-STRESSED GRIDER BRIDGES ISSUED 1/15/10

DEPA	THE COMMONWEALTH OF MASSACHUSETTS ARTMENT OF TRANSPORTATION – HIGHWAY DIVISION INTEROFFICE MEMORANDUM
TO:	Bridge Inspection Staff
THRU:	Alexander K. Bardow, P.E., Director of Bridges and Structures
FROM:	Alexander K. Bardow, P.E., Director of Bridges and Structures Brian B. Clang, P.E., Bridge Inspection Engineer Yun B. Clang
DATE:	January 15, 2010
RE:	Superstructure Coding for NE Bulb Tee Pre-stressed Girder Bridges
England B questions of	been a bit of confusion about the correct coding for Pre-stressed concrete New tub Tee girder superstructures. I have been advised that inspectors have on the correct coding for Item 43 – Structure Type. This memo will clarify our
position.	
Item 43 is a stressed co and third d	a three digit entry. The first digit (material) is straight forward: either 5 - Pre- oncrete, or 6 - Continuous pre-stressed concrete. The confusion is in the second ligit (design type). Inspectors have considered using either 02 – Girder, or 04 - The interest in calling it a tee beam bridge may lie in the name of the beam
Item 43 is a stressed co and third d Tee beam. shape: bulk Please be a	a three digit entry. The first digit (material) is straight forward: either 5 - Pre- oncrete, or 6 - Continuous pre-stressed concrete. The confusion is in the second ligit (design type). Inspectors have considered using either 02 – Girder, or 04 - The interest in calling it a tee beam bridge may lie in the name of the beam
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Item 43 is a stressed co and third d Tee beam. shape: bulk Please be a "Girder".	a three digit entry. The first digit (material) is straight forward: either 5 - Pre- oncrete, or 6 - Continuous pre-stressed concrete. The confusion is in the second ligit (design type). Inspectors have considered using either 02 - Girder, or 04 - The interest in calling it a tee beam bridge may lie in the name of the beam b tee. advised that the correct coding for a New England Bulb Tee design type is
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Attachment 10-4: Superstructure Coding for NE bulb Tee Pre-stressed Girder Bridges Supplement dated 1/15/10



### 10.5 SHIELDING REPORTING AND CODING ISSUED 2/16/11

DEP	ARTMENT OF T	ONWEALTH O RANSPORTAT ROFFICE ME	TION – HIGI	WAY DIVI	SION	
TO:	Bridge Inspection	on Staff	20	. 116	20	
THRU:	Alexander K. B	ardow, P.E., Direc	tor of Bridges a	and Structures	end	
FROM:	Brian B. Clang,	P.E., Bridge Inspe	ection Engineer	Vain?	S.Cler	4
DATE:	February 16, 20	011				8
RE:	Shielding Repo	rting and Coding				
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Attachment 10-5: Shielding Reporting and Coding Supplement dated 2/16/11

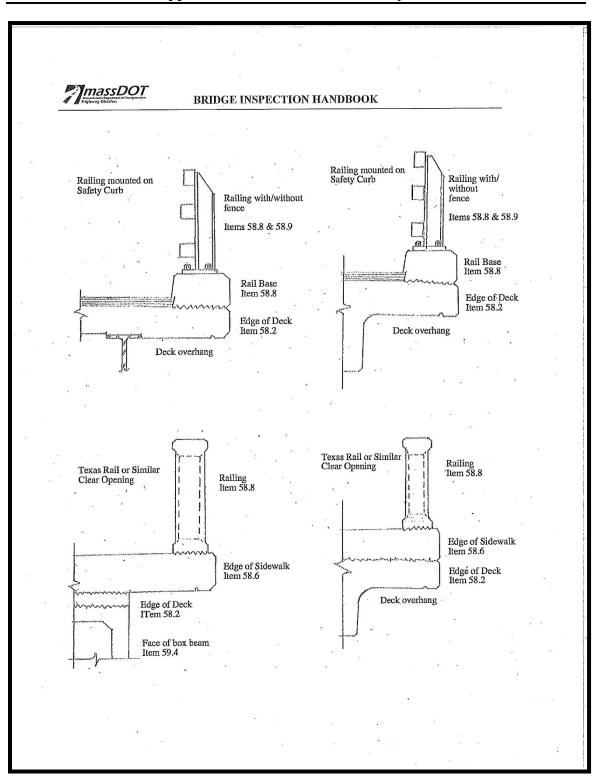


# 10.6 CODING CLARIFICATION FOR PARAPETS AND BRIDGE RAILING ISSUED 11/12/13

	MAS	SSACHUSETTS DEPARTMENT OF TRANSPORTATION HIGHWAY DIVISION INTEROFFICE MEMORANDUM		· ,
	TO:	Bridge Inspection Staff	11	
1.60	THRU:	Alexander K. Bardow, P.E., State Bridge Engineer Agan W /a	ter	
	FROM:	Alexander K. Bardow, P.E., State Bridge Engineer How to Ca Brian B. Clang, P.E., Bridge Inspection Engineer Jun S. Cl	eng	
	DATE:	November 12, 2013	U .	
	RE:	Coding Clarification for Parapets and Bridge Railing		
۲.,				
•	railing. The historically Training Ma that include	een a bit of inconsistency with inspection reporting for parapets and bridge e confusion may exist because popular bridge inspection references have used the terms interchangeably. For instance the FHWA's Bridge Inspect anual 90, under Section 7.7.1 Bridge Barriers list examples of bridge railing solid concrete <u>parapets</u> and steel and aluminum <u>railings</u> . It also presents which shows a pigeonhole <u>parapet</u> as an example of a bridge <u>railing</u> .	or's	
×.	or a railing: you cannot, pickets) rail	ule of thumb is offered for determining if any given bridge barrier is a para "If you can pass your arm through the barrier system than it is a railing, then it is a parapet." For example, the S3-TL4 (three rails with or withou ling is obviously a railing and a CF-PL2 (solid concrete "Jersey" barrier) is e CT-TL2 (concrete "Texas" rail) would be a railing because of the opening	If t s a	· .
	steel rail mo	hany situations where we do have both parapets and railings, such as a sing pointed on a low concrete parapet. Another example would be when a rail on a concrete base. In such cases we would prefer that the rail be coded a the base be coded as a parapet.	ing	
		a series of sketches of some of the more typical bridge rail systems in use etts with our recommended coding of components.	in	
		efinitely bridge rail systems that do not fit the above descriptions. For succur best judgment based upon the guidelines offered in the attachment.	<b>h</b>	
	Thank you f	for working with me to standardize our NBIS coding.		
	BBC/bbc			
	Attachment			
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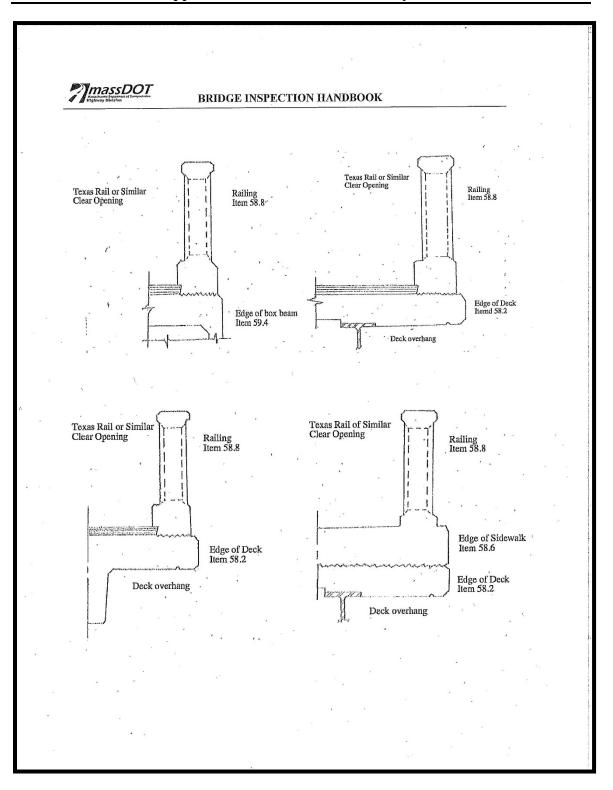
Attachment 10-6: Coding Supplement for Parapets and Bridge Railing dated 11/12/13, Page 1 of 5





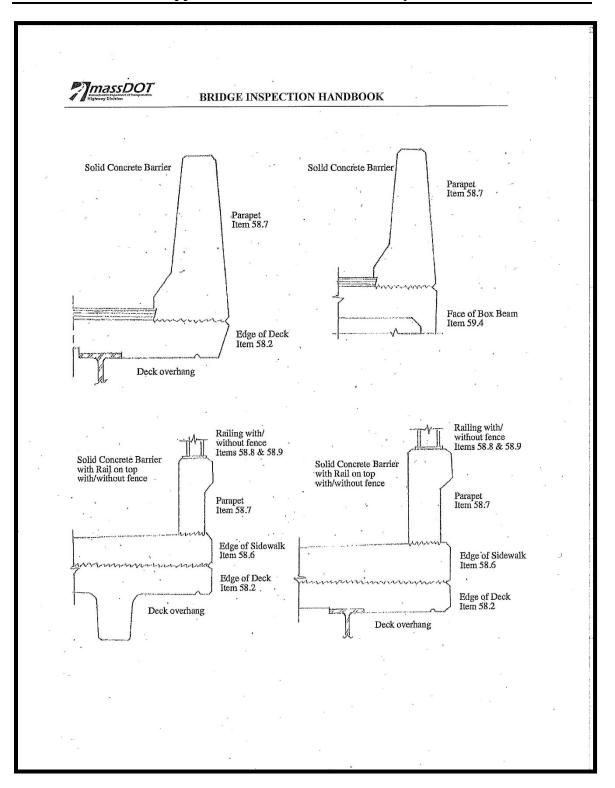
Attachment 10-6: Coding Supplement for Parapets and Bridge Railing dated 11/12/13, Page 2 of 5





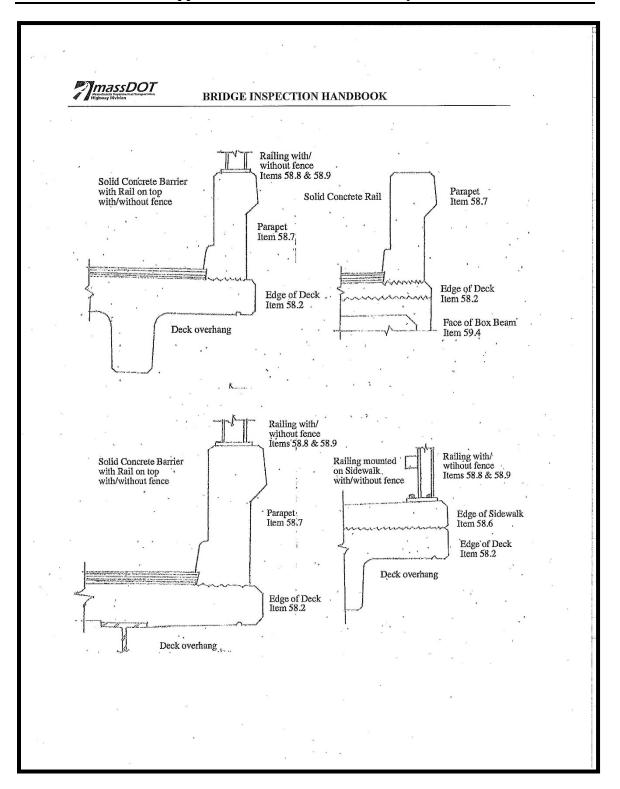
Attachment 10-6: Coding Supplement for Parapets and Bridge Railing dated 11/12/13, Page 3 of 5





Attachment 10-6: Coding Supplement for Parapets and Bridge Railing dated 11/12/13, Page 4 of 5





Attachment 10-6: Coding Supplement for Parapets and Bridge Railing dated 11/12/13, Page 5 of 5



### 10.7 INSPECT WHAT YOU CAN ... WHEN IT IS DUE ISSUED 11/17/14

MASSACHUSETTS DEPARTMENT OF TRANSPORTATION HIGHWAY DIVISION INTEROFFICE MEMORANDUM	
TO: Bridge Inspection Staff	_
TO:       Bridge Inspection Staff         THRU:       Alexander K. Bardow, P.E., State Bridge Engineer         FROM:       Brian B. Clang. P.E. Bridge Inspection Engineer	
FROM: Brian B. Clang, P.E., Bridge Inspection Engineer	
DATE: November 17, 2014	
RE: Inspect What You Can When It Is Due!	
Often access to bridges for our safety inspections is delayed or interrupted. Typical examples include Railroad right-of-way access permit delays and active construction operations/phasing. Other reasons could include high water flows or heavy snow accumulation. I would like to remind all that our safety inspections should be completed when they are due as per NBIS and MassDOT criteria.	
If any portion of the structure can still be accessed during the month that the NBIS inspection is due then proceed with the inspection. Whatever cannot be inspected during that month will have to be put off until access is possible or is granted. An inspection report should be prepared for the elements inspected. A comment should be included in the general comments section of the report describing the areas of the bridge that were not inspected at this time and the reason for the delay. The inspection report should carry the first date that the field inspection was started.	
inspection is due then proceed with the inspection. Whatever cannot be inspected during that month will have to be put off until access is possible or is granted. An inspection report should be prepared for the elements inspected. A comment should be included in the general comments section of the report describing the areas of the bridge that were not inspected at this time and the reason for the delay. The inspection report should carry	
<ul><li>inspection is due then proceed with the inspection. Whatever cannot be inspected during that month will have to be put off until access is possible or is granted. An inspection report should be prepared for the elements inspected. A comment should be included in the general comments section of the report describing the areas of the bridge that were not inspected at this time and the reason for the delay. The inspection report should carry the first date that the field inspection was started.</li><li>If the follow up inspection is within the next month then the inspectors should hold off completing the report until all of the condition information is obtained. The completed inspection report should carry the first date that the field inspection was started, not the</li></ul>	
<ul> <li>inspection is due then proceed with the inspection. Whatever cannot be inspected during that month will have to be put off until access is possible or is granted. An inspection report should be prepared for the elements inspected. A comment should be included in the general comments section of the report describing the areas of the bridge that were not inspected at this time and the reason for the delay. The inspection report should carry the first date that the field inspection was started.</li> <li>If the follow up inspection is within the next month then the inspectors should hold off completing the report until all of the condition information is obtained. The completed inspection report should carry the first date that the field inspection was started, not the follow up date.</li> <li>If the follow up inspection is expected to be later than the next month then the TL should complete the inspection report as is. Items 58, 59, 60 and 62 should be coded for the conditions noted during the first inspection. The Team Leader should return to the bridge when access is available and complete an "Other" inspection report for the areas of the bridge not accessed previously. When assigning condition ratings for Items 58, 59, 60 or 62 as applicable at the completion of the Other Inspection the team should consider the</li> </ul>	

Attachment 10-7: Inspect What You Can...When It Is Due dated 11/17/14



### 10.8 BRI: DEFINITIONS AND METHOD OF MEASURING LENGTH OF SPAN ISSUED 4/6/16

	HIGHWAY DIVISION INTEROFFICE MEMORANDUM
TO:	Bridge Inspection Staff
THRU:	Brian B. Clang, P.E., Bridge Inspection Engineer Varian S. Clang
FROM:	Alexander K. Bardow, P.E., State Bridge Engineer
DATE:	April 6, 2016
have put toget	BRI: Definitions and Method of Measuring Length of Span DOT's BRI inspection program and in anticipation of the Municipal Bridge Program, I her guidance on how to determine if a bridge is a BRI. The information contained
As part of Mass have put toget within this me guidance on ho not. The inten Since this guida	DOT's BRI inspection program and in anticipation of the Municipal Bridge Program, I
As part of Mass have put toget within this me guidance on ho not. The inten Since this guida	DOT's BRI inspection program and in anticipation of the Municipal Bridge Program, I her guidance on how to determine if a bridge is a BRI. The information contained morandum gives a definition of BRI, provides relevant references, and provides w and where to measure the span length to determine if a structure is a BRI, NBI or t is to make sure that everybody is going about determining BRI's consistently. ance is going out after the start of our BRI inspections, those bridges that have been are currently in the inventory as BRIs would have to be re-measured in compliance

A "BRI" is a highway bridge structure that meets the Massachusetts General Laws (MGL) definition of a bridge but not the federal definition of a bridge. MGL recognize structures having a span greater than 10 feet as bridges, but federal regulations define a bridge as a structure having a span greater than 20 feet. MassDOT uses the category code of "BRI" in order to identify and track MGL definition bridges in its inventory.

#### References

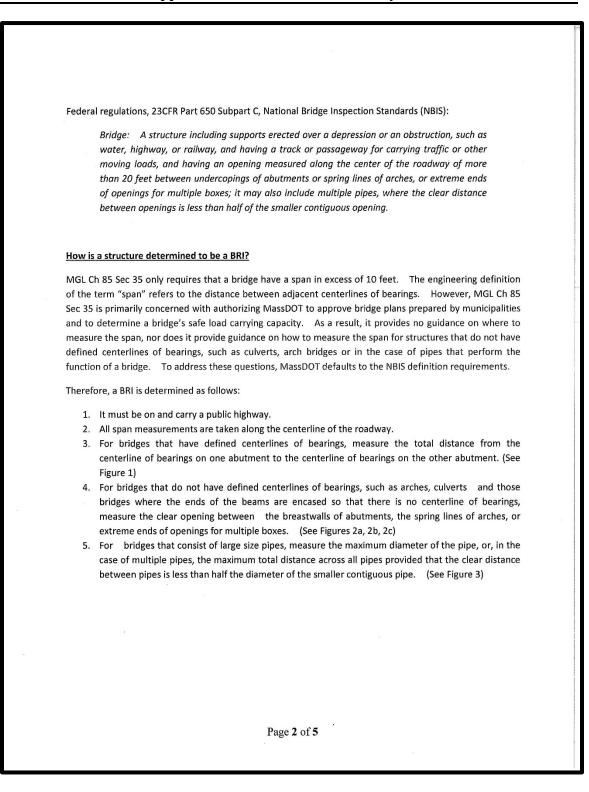
MGL Chapter 85 Section 35 (relevant provisions):

No bridge on a public highway having a span in excess of ten feet, ..., shall be constructed or reconstructed by any county or town except in accordance with plans and specifications therefor approved by the department. Said department shall approve or alter to meet its approval all such plans submitted to it and shall determine the maximum load which any such bridge may safely carry...

Page 1 of 5

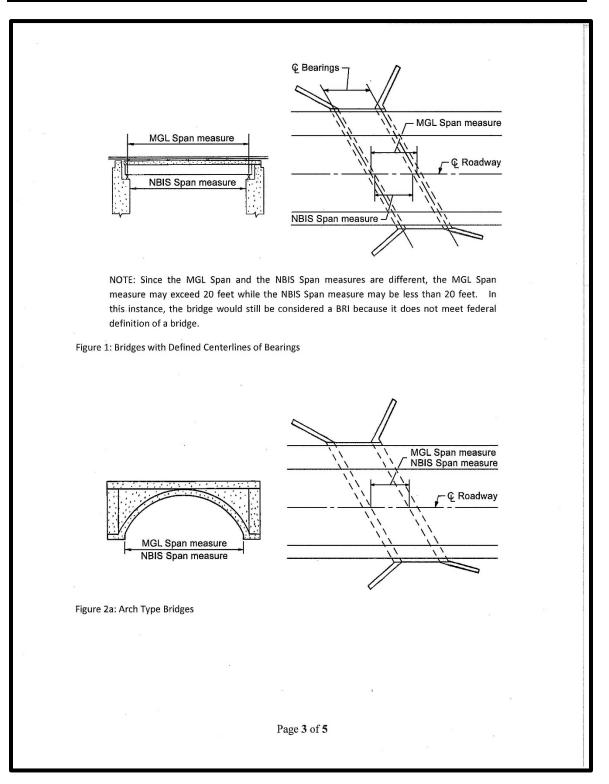
Attachment 10-8: BRI: Definitions and Method of Measuring Length of Span, dated 4/6/16, Page 1 of 5





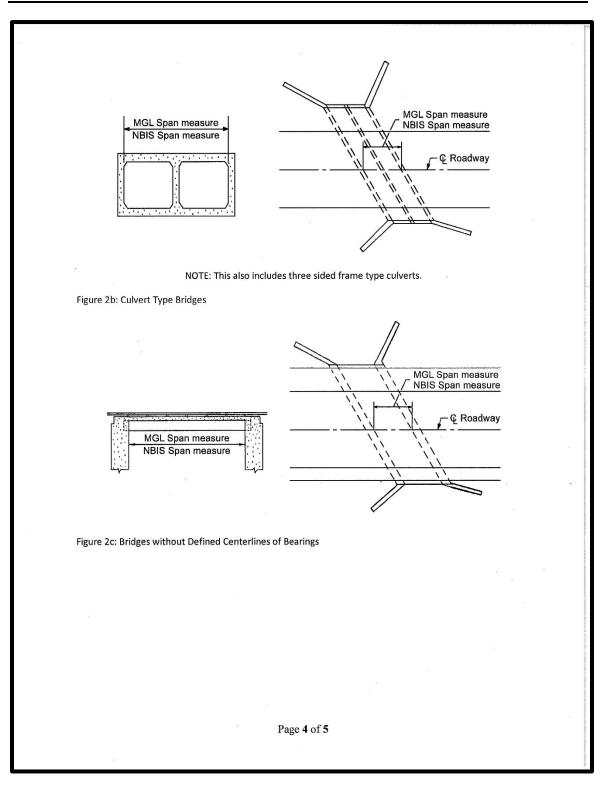
Attachment 10-8: BRI: Definitions and Method of Measuring Length of Span, dated 4/6/16, Page 2 of 5





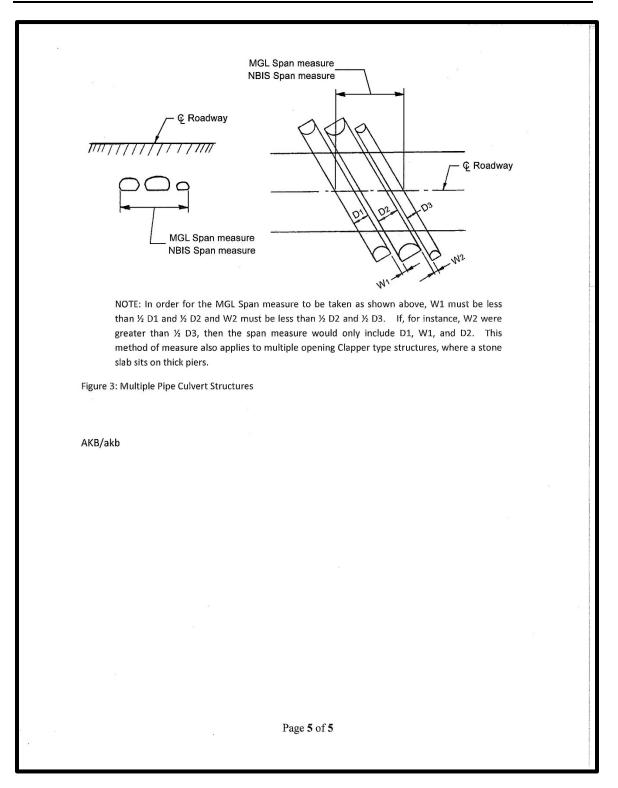
Attachment 10-8: BRI: Definitions and Method of Measuring Length of Span, dated 4/6/16, Page 3 of 5





Attachment 10-8: BRI: Definitions and Method of Measuring Length of Span, dated 4/6/16, Page 4 of 5





Attachment 10-8: BRI: Definitions and Method of Measuring Length of Span, dated 4/6/16, Page 5 of 5



### 10.9 NBIS DATA UPLOADING PROCESS CHANGE ISSUED 9/25/17

	SSACHUSETTS DEPARTMENT OF TRANSPORTATION HIGHWAY DIVISION INTEROFFICE MEMORANDUM
TO:	Bridge Inspection Personnel and Consultants
THRU:	Bridge Inspection Personnel and Consultants Alexander K. Bardow, P.E., State Bridge Engineer in all Works Brian B. Clang, P.E., Bridge Inspection Engineer September 25, 2017
FROM:	Brian B. Clang, P.E., Bridge Inspection Engineer
DATE:	September 25, 2017
RE:	NBIS Data Uploading Process Change
be automati review". Ti uploaded in Note that or check the re report, such The Team I reminder th example a F 90. The aut Critical, Spu As you can all coding d review. The DBIE v review. Wh changed dat	ng a process change. Beginning September 29, 2017 pertinent NBI data will ically uploaded into 4D when an inspection report is marked "ready for his process change is necessary so that all inspection data, statewide, is to the bridge inspection database within the required time frame. Inly the Team Leader for the inspection or his or her DBIE will be able to eport ready for review. Other inspectors assisting with the preparation of the a sa Team Members will not be able to complete this step. Leader will be presented with a Confirmation dialog box containing a at the action will update the SI&A and list the items to be updated. For Routine report will update items 41, 58, 59, 60, 61, 36A, 36B, 36C, 36D, and tomatic upload will be completed for Routine, Routine Arch, Culvert, Fracture ecial Member, Underwater and Underwater Low Clearance reports. surely appreciate, it is very important that the report is fully completed, that ata is complete and accurate when the Team Leader marks it ready for will still be able to make changes to the data if necessary following his or her nen the DBIE completes the review of the report and approves it in 4D, any ta from the original upload will be automatically revised as necessary. for working with me to ensure compliance with NBIS criteria.

Attachment 10-9: NBIS Data Uploading Process Change, dated 9/25/17



# 10.10 NON-REDUNDANT STEEL TENSION MEMBERS (NSTM) INSPECTION PROCEDURES ISSUED 01/01/2025

	MASSACHUSETTS DEPARTMENT OF TRANSPORTATION HIGHWAY DIVISION INTEROFFICE MEMORANDUM
TO: THRU:	Bridge Inspection Staff Alexander K. Bardow, P.E., State Bridge Engineer
FROM: DATE:	Alexander K. Bardow, P.E., State Bridge Engineer And Se- Bruce J. Sylvia, Bridge Inspection Engineer Bruce J. Sylvia January 1, 2025
RE:	Non-Redundant Steel Tension Members (NSTM) Inspection Procedures
	ad Ratings SharePoint site for MassDOT Inspectors. Consultants are directed to request procedures email massdotinspandratingreq@dot.state.ma.us.
idge Inspe idge Inspe	ction Team Leaders who commit the completed NSTM inspection report for review in the NBIS ction Management System will be certifying that a complete hands-on NSTM Inspection was accordance with the NSTM procedures on file.

Attachment 10-10: Non-Redundant Steel Tension Members (NSTM) Inspection Procedures, dated 1/1/2025