



BRIDGE INSPECTION MANUAL 2023 REVISIONS

Prepared by Bridge Mangement

Revision Item No.	Section No.	New Page No.	Revision Description
1	N/A	Cover	Updated date on cover page to 2023
2	N/A	Signature Page	Replaced 2020 signature page with 2023 page
3	N/A	All Pages	Updated footer date throughout manual
4	Throughout	Thru-out	Swapped NSTM for FC throughout document
5	Throughout	Thru-out	Swapped Complex features for Complex bridges throughout document
6	Table of Contents	i-xii	Updated accordingly
7	1.4	1-7	Updated version/date info for some of the references. Corrected entry for BIRM.
8	2.1	2-1	Updated Bridge Management Section Org Chart
9	2.3	2-4	Added some discussion of the NBIS requirement to maintain a NCBI registry
10	3.1.1	3-1	Made minor updates to first paragraph.
11	3.1.1	3-2	Add sentence at end of section noting that TL is required to be on site for entire inspection.
12	3.1.2	3-3	Added some discussion regarding temporary bridge inspections
13	3.1.2	3-3	Corrected the section # that references inspection frequencies in the last sentence of the 3rd paragraph
14	3.1.2	3-3	Add sentence at end of section noting that TL is required to be on site for entire inspection.
15	3.1.2.1	3-3 & 3-4	Additional language has been added to address inspection report, identification of different inspection team roles, access, and inspection techniques used.
16	3.1.2.1	3-4	Add sentence at end of section noting that TL is required to be on site for entire inspection.
17	3.1.3	3-4	Corrected the section # that pertains references inspection frequencies in the 2nd sentence of the 2nd paragraph. Add sentence at end of section noting that TL is required to be on site for entire inspection.
18	3.1.4	3-4	Added some language related to the clarity & depth of the water regarding the decision to require an underwater inspection. Also clarified that BIE is responsible for this determination.
19	3.1.4	3-5	Corrected the section # that references inspection frequencies in the 2nd to last sentence of the 2nd paragraph. Added sentence at end of second paragraph noting that TL is required to be on site for entire inspection.
20	3.1.4	3-5	Additional language in last paragraph has been added to address inspection report, identification of different inspection team roles, access, and inspection techniques used.
21	3.1.5	3-5	Updated to include discussion of Special Inspection Procedure documents. Add some language regarding TL requirements for Special inspections. Add sentence at end of section noting that TL is required to be on site for entire inspection.
22	3.1.6	3-6	Updated complex bridges to complex features throughout section to be consistent with NBIS language. Add sentence at end of section noting that TL is required to be on site for entire inspection.
23	3.1.9	3-7	Added discussion of damage inspection
24	3.1.10	3-8	Added a new section for In-Depth Inspections. Also, noted the types of bridges typically requiring an in-depth inspection including DRBA bridges. Also make note of In-Depth Inspection Procedure documents.
25	3.1.11	3-8	added section to address Scour Monitoring Inspections
26	3.2	3-9	Added discussion of additional inspection frequency tolerances as per the 2022 NBIS. Also, added inspection completion date in reference to inspection frequencies.
27	3.2.1	3-12	New section describing DeIDOT's Extended Inspection Interval process
28	3.3	3-16	Added description of in-depth inspection to discussion.
29	3.4	3-50	Clarification of 30-day requirement for load posting and 24-hour requirement for FHWA notification of a critical finding was clarified.
30	3.4	3-50 & 3-51	Note 8 was added to clarify 30-day posting requirement. Note 9 was added to clarify the NBIS requirement for notifying the FHWA within 24-hours of confirming a critical finding.
31	3.5.1	3-52	Added selection & recording of defects to the paragraph.
32	3.5.2.3	3-53	Added "DeIDOT and municipally owned bridges" for clarification to last paragraph
33	3.5.2.3	3-53	Added a comment regarding the correlation for assigning the substructure rating & Item #113 when severe scour conditons are found.
34	3.5.3	3-54	Added some additional initials/acronyms for different inspection personnel to be included with Inspection otes page in BrM for clarification.
35	3.5.5	3-58	Updated to reference DeIDOT's BLRM and load rating completion timeframe
36	3.5.5.2	3-60	Updated to reference DeIDOT's BLRM



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37	3.5.6	3-60	Updated to reference DelDOT's BLRM. Also added a paragraph discussing the NBIS 30 day posting requirement.
38	3.5.6.1	3-61	Removed first 2 sentences. Updated 60 days to 65 days to be consistent with table in section 3.4.
39	3.5.8.3	3-65	Added some discussion regarding the 24-hour FHWA notification of a critical finding for NHS bridges.
40	3.5.9 (old)	3-66	Original 3.5.9 Renumberd to 3.5.10 and modified list of items and removed the term "Active" folders
41	3.5.9 (new)	3-66	Renamed as "Scour Appraisals"
42	3.5.9	3-67	Added a paragraph at end of section to discuss time constraints for creating a scour POA if the Scour Appraisal indicates bridge is scour critical.
43	3.5.9.1 (old)	3-65	Renumbered to 3.5.10.1 and modified the list of items to be included in the hard copy inspection files. Combined the original "Additional Folders" section (3.5.9.3) in with 3.5.10.1
44	3.5.9.1 (new)	3-67	Scour Appraisal Form discussion added
45	3.5.9.2 (old)	3-66	Original Section removed - no longer applicable
46	3.5.9.2 (new)	3-68	Scour Plan of Action and Scour Monitoring Inspection discussion was added
47	3.5.9.3	3-68	Original Section was removed and language copied to section 3.5.10.1
48	3.5.10	3-68	Added some additional comments addressing bridge files
49	3.7.1.3	3-76	New section to discuss traffic control activities for DRBA
50	4.1.2	4-2	Removed definition for "Bridge Maintenance Engineer: and added definition for "Bridge Inspection Resource Engineer". Removed any reference to the Bridge Maintenance Engineer with Bridge Inspection Resource Engineer throughout the manual.
51	4.2.1	4-4	Clarified that the QC procedures apply to all DelDOT, DRBA, and munipally-owned bridges.
52	4.2.1.4	4-7	Changed "Quarterly Bridge Inspection Staff Meeting" to "Monthly Bridge Inspection Staff Meeting"
53	4.2.2.1	4-9	Changed Quarterly to Monthly. Clarified in-house versus consultant TMs
54	4.2.2.2	4-10	Changed Quarterly to Monthly. Clarified in-house versus consultant TMs
55	4.2.2.3	4-12	Added some clarification for in-house versus consultant staff attending monthly meetings.
56	4.2.3	4-12	Modified qualifications of the Bridge Inspection Program Manager. NICET qualification was removed as per the 2022 NBIS revision no longer includes this.
57	4.2.3.2	4-14	Removed NHI F/C Course requirement for NTSM inspections for TM's
58	4.2.3.3	4-15	Made some clarifications and modifications for different types of movable bridges
59	4.2.3.5	4-16	Added a new section for "Inspector Qualifications for Special Inspections". Renumbered the original 4.2.3.5 (QC of Inspection Personnel) to 4.2.3.7 and used 4.2.3.5 for the new section. Updated additional items to be included in tracking inspector qualifications
60	4.2.3.6	4-16	Added a new section for "Inspector Qualifications for Damage Inspections".
61	4.2.3.7	4-17	Renumbered the original 4.2.3.5 (QC of Inspection Personnel) to 4.2.3.7 and used 4.2.3.5
62	4.3.1	4-19	Added language to include QA of Underwater & Special Inspections and Scour Appraisals
63	4.3.1.3	4-21	Changed BIE to BRE for completing QARR. Added Scour Appraisal to list of items included in QA.
64	4.3.2	4-21	Clarified that State-owned bridges includes DelDOT and DNREC bridges.
65	4.3.2.3	4-23	Added some additional discussion regarding DRBA inspection procedures review
66	4.3.3.2	4-24	A couple of minor edits were made.
67	4.3.3.5	4-24	Added QA sampling parameters for Special Inspections
68	4.3.3.6	4-24	Added QA sampling parameters for Scour Appraisals
69	4.3.3.7	4-25	Added QA Sampling parameters for DRBA bridge inspections
70	4.3.5.1	4-26	Minor changes were made to the responsibility of the BIE for the QA process
71	4.3.5.2	4-27	Minor changes were made to the responsibility of the BME for the QA process
72	4.3.5.3	4-28	Added some discussion regarding damage inspections.
73	6.1	6-1	Modified discussion regarding damage inspections
74	6.3.1.1	6-3	Discussion regarding Scour Monitoring Inspections was added.
75	A.17	A.17	Scour Appraisal Form added
76	A.18	A.18	Example of Scour Plan of Action added
77	C.2	C.2	Replaced the NBIS regs with the 2022 updated regs