



Craig Nazareth

Critical findings

BrMUG 2024 | Long Beach, CA | September 17-18





Critical findings.

- **Critical findings.**
- (1) Document procedures to address critical findings in a timely manner. Procedures must:
 - (i) Define critical findings considering the location and the redundancy of the member affected and the extent and consequence of a deficiency. Deficiencies include, but are not limited to scour, damage, corrosion, section loss, settlement, cracking, deflection, distortion, delamination, loss of bearing, and any condition posing an imminent threat to public safety. At a minimum, include findings which warrant the following:
 - (A) Full or partial closure of any bridge;
 - (B) An NSTM to be rated in serious or worse condition, as defined in the NBI (see [§ 650.315](#)) by the NSTM Inspection item, coded three (3) or less;
 - (C) A deck, superstructure, substructure, or culvert component to be rated in critical or worse condition, as defined in the NBI (see [§ 650.315](#)) by the Deck, Superstructure, or Substructure Condition Rating items, or the Culvert Condition Rating item, coded two (2) or less;
 - (D) The channel condition or scour condition to be rated in critical or worse condition as defined in the NBI (see [§ 650.315](#)) by the Channel Condition Rating or Scour Condition Rating items, coded critical (2) or less; or
 - (E) Immediate load restriction or posting, or immediate repair work to a bridge, including shoring, in order to remain open.
 - (ii) Develop and document timeframes to address critical findings identified in [paragraph \(q\)\(1\)\(i\)](#) of this section.



Critical findings. Reporting

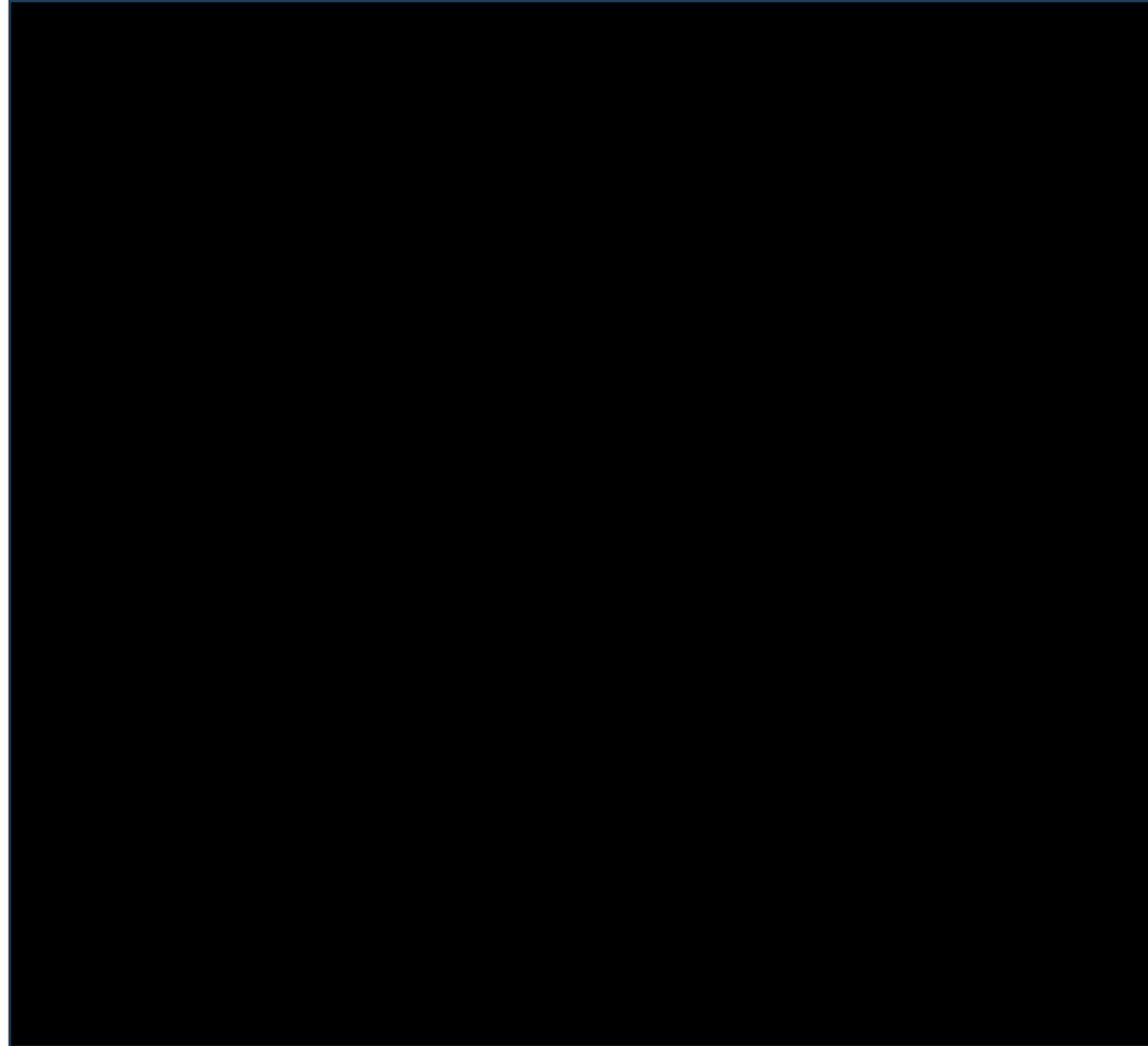
- (2) State transportation departments, Federal agencies, and Tribal governments must inform FHWA of all critical findings and actions taken, underway, or planned to resolve critical findings as follows:
 - (i) Notify FHWA within 24 hours of discovery of each critical finding on the National Highway System (NHS) as identified in [paragraphs \(q\)\(1\)\(i\)\(A\)](#) and [\(B\)](#) of this section;
 - (ii) Provide monthly, or as requested, a written status report for each critical finding as identified in [paragraph \(q\)\(1\)\(i\)](#) of this section until resolved. The report must contain:
 - (A) Owner;
 - (B) NBI Structure Number;
 - (C) Date of finding;
 - (D) Description and photos (if available) of critical finding;
 - (E) Description of completed, temporary and/or planned corrective actions to address critical finding;
 - (F) Status of corrective actions: Active/Completed;
 - (G) Estimated date of completion if corrective actions are active; and
 - (H) Date of completion if corrective actions are completed.
 - (r) **Review of compliance.** Provide information annually or as required in cooperation with any FHWA review of compliance with this subpart.

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We had a *Little* problem



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We used our standard Critical Findings Report



A large concrete dam with a bridge in the background and orange safety flags on the dam's crest. The dam is made of grey concrete with visible construction joints. In the background, a blue bridge with multiple arches spans across a body of water. The sky is clear and blue. The text is overlaid in white on the dam's surface.

That Little Critical Finding
give us a big problem

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Before you can enter the Critical finding in BrM You have to set it up

NAZARETH, CRAIG

Bridge ID: 070001 Feature Intersected (006A): SEEKONK RIVER Facility Carried (007): I-195 WB

Inspection > Critical Findings

Critical Finding Status
Draft

Critical Finding Data

Reporter: (craig.nazareth@dot.ri.gov) NAZARETH Reporter Phone: 401 222 2053 ext.4915 Reporter Email: craig.nazareth@dot.ri.gov

Date of Finding: 12 / 08 / 2023 Time of Finding: 10 : 28 AM Discovered During Inspection:

Category: 1 - Deterioration Initial Priority: Serious Initial Action Taken: Tmp. Load/Weight R

Bridge Owner Contacted Date: 12 / dd / 2023 Bridge Owner Contacted Time: 11 : 59 AM

Contacted Name: Contacted Phone:

ISSUE
Description: The tie down rod at the east wall of pier 6 that is located north of unbalanced cantilever beam A has 1-1/16" diameter remaining over 2" high at the bottom of the exposed portion of the rod (tie down rod assumed to be fully compromised / ineffective based on previous inspection performed which noted bouncing of cantilever beam end and tie down under live load; see photo 1). The tie down rod at the east wall of pier 6 that is located south of unbalanced cantilever beam F has 1" diameter remaining over 4" high at


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Admin > General Config > Critical Findings

NAZARETH, CRAIG Admin > General Config > Critical Findings



Level 1 Reviewer

Rules will be checked in order. The first rule match determines the Level 1 Reviewer. [+ Add Rule](#)

Order	When	Is/In	And When	Is/In	Then Level 1 Reviewer Group Is	Notes
No records to display.						

* Default Review Group When No Rule Is Met:

- Commonwealth Engineers
- Connecticut Department of Transportation
- Critical Findings Level 1**
- Critical Findings Level 2
- DEM

Level 2 Reviewer

Status: Disabled Enabled

Rules will be checked in order. The first rule match determines the Level 2 Reviewer. [+ Add Rule](#)

Order	When	Is/In	And When	Is/In	Then Level 2 Reviewer Group Is	Notes
No records to display.						

* Default Review Group When No Rule Is Met:

- Orlando Engineering
- Commonwealth Engineers
- Connecticut Department of Transportation
- Critical Findings Level 1
- Critical Findings Level 2**

FHWA Settings

Send Critical Findings to FHWA:

FHWA email will be sent to all contacts listed below. [+ Add Contact](#)

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Admin > Security > Groups

Admin > Security > Groups



* Name:

Critical Findings Level 1

Group Access Filters

Available Filters

037501
062151
062171
072851
072871
142801
142821
500000T
888801
999999



Selected Filters

000101
000201
000401
000501
000601
000701
001001
001101
001201
001401

Group Members

Search



Export

+ Add New

User

Disabled

BERTRAND, MARY

F



GAULIN, KEITH

F



HART, CHRISTOPHER

F



NAZARETH, CRAIG

F



PREISS, JOHN

F



<< 1 >>

5 items in 1 page

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Admin > Security > Groups

Admin > Security > Groups ?

Create User Group

User Group Details

Ancillary Asset Type: Bridge

* Name:

Group Access Filters

Available Filters

- 000101
- 000201
- 000401
- 000501
- 000601
- 000701
- 001001
- 001101
- 001201
- 001401

Selected Filters

- Bristol-Owned

Navigation: >>, >, <, <<

Group Members

Search

User	Status	Actions
R. BRISTOL	Disabled	T <input type="button" value="Delete"/>

« 1 » 1 item in 1 page



Admin > General Config > Critical Findings

Admin > General Config > Critical Findings

Send Critical Findings to FHWA:

FHWA email will be sent to all contacts listed below.

[+ Add Contact](#)

Email Address
anthony.rotondo@dot.gov ✖

« 1 » 1 item in 1 page

This is displayed in Critical Findings form as a reminder to reviewers.

Number of Days:

Email CC Addresses

All Critical Findings emails will CC the contacts listed below.

[+ Add Contact](#)

Email Address
No records to display.

Editability Settings

Critical Findings Data is editable:

Committee Review Data Settings

Display Committee Review Group on Critical Findings page:

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BrM 7.0

Bridges > Inspection > Critical Findings ⊕ ⚙

Add Bridge Critical Finding

Critical Finding Status

Status	Current Priority Level	Sent to FHWA
Pending Level 1 Review		False

Critical Finding Data

Reporter ⓘ	Reporter Phone ⓘ	Reporter Email ⓘ
Date/Time of Finding * ⓘ 09 / 11 / 2024 , 08 : 00 PM	Discovered During Inspection ⓘ	Category * ⓘ
Initial Priority * ⓘ	Initial Action Taken * ⓘ	Bridge Owner Contacted Date/Time * ⓘ 09 / 11 / 2024 , 08 : 00 PM
Contacted Name ⓘ	Contacted Phone ⓘ	
Description * ⓘ		

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Questions?



Craig Nazareth

Rhode Island Department of
Transportation

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