

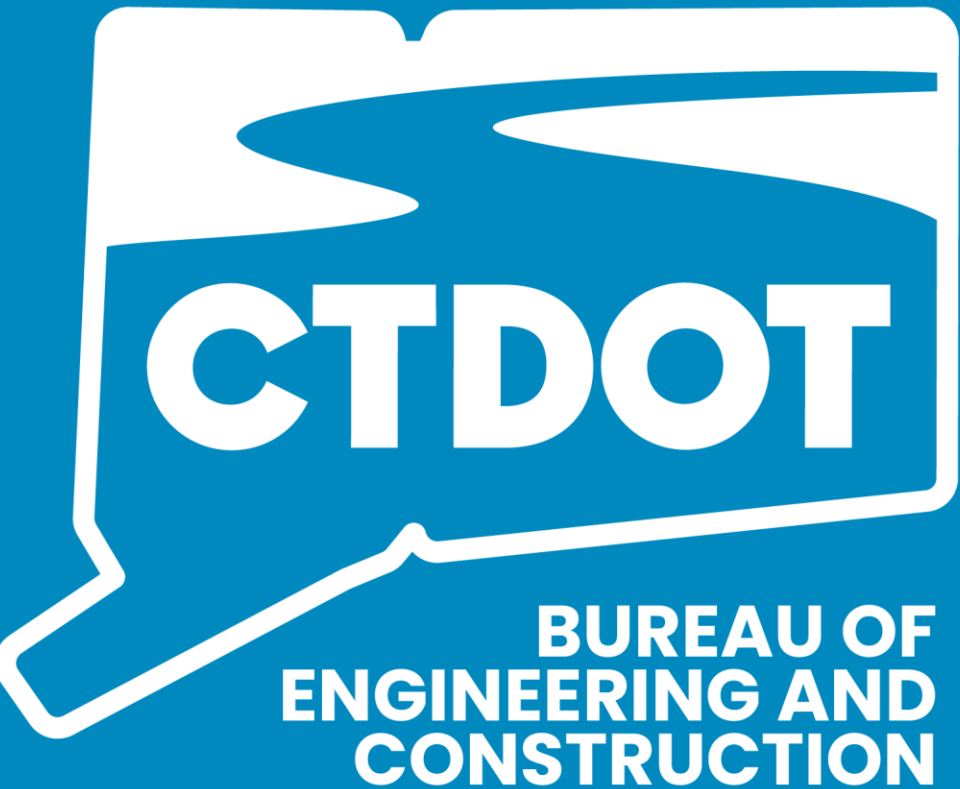


Inspection Review Module

Use and set-up

Jacob Booth – Connecticut Department of Transportation

Why should you trust me?



- Involved with BrM since 2022
- 5 years of railroad bridge inspection and maintenance
- I have made a lot of mistakes managing bridge programs

What is the Inspection Review Module

- Predefined method of moving inspections around
- Ensure you follow your QC/QA procedure
- Helps answer the “where is it question”
- Protects inspections from editing
- Makes report review easier



Why Use this

AASHTO Manual for Bridge Evaluation and FHWA Code of Federal Regulations

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Rules

23 CFR 650.313(p)

- Defined QC/QA
- Follow AASTHO MBE
- Procedures for review validation
- Procedures for identification of errors
- Quality Assurance check for followed procedures
- Inspection Review focuses on QA

Logistics

- CTDOT Bridge Inspection Manual:

“QA review of the inspection reports and QC and/or QA review of the field inspection methods. As a minimum, the TE3 shall perform a QA review for 100% of the inspection reports with a numerical SNBI condition rating of 5 or less for Items B.C.01 through B.C.15”

- What process is used to ensure compliance
- How to manage moving documents
- How to make things don't linger
- How to ensure accuracy



Establishing Workflows

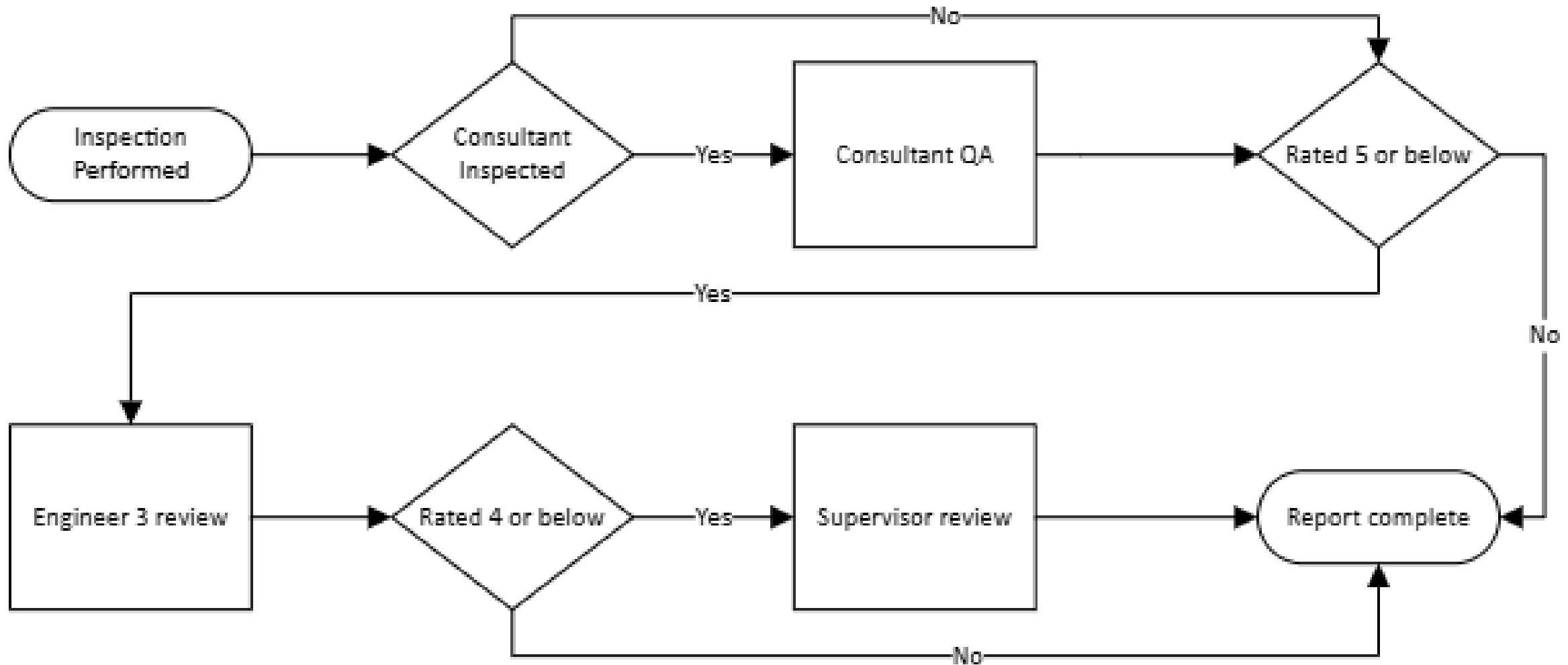
...and getting them wrong

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What do we want?

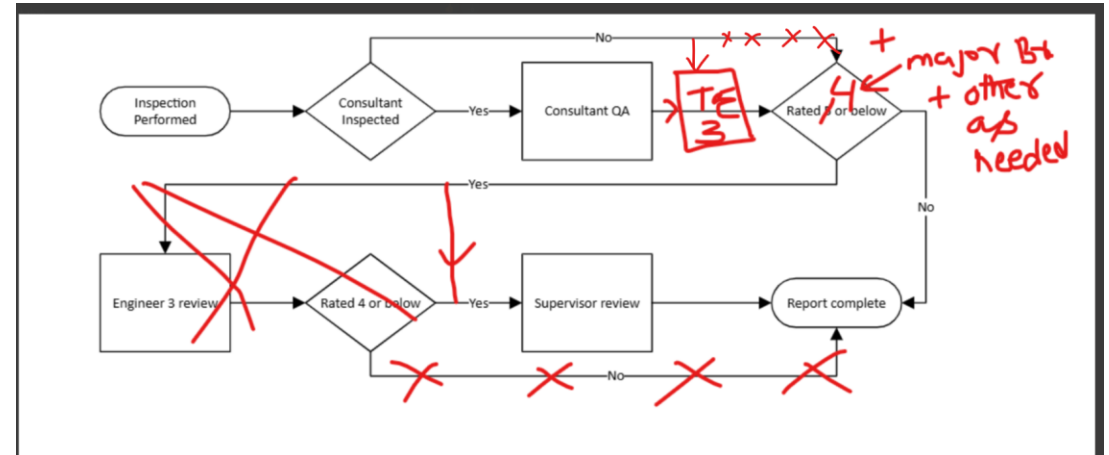
- All consultants perform internal QA
- All bridges rated 5 or lower are reviewed by a TE3
- All bridges rated 4 or lower are reviewed by a supervisor
- TE3 reviews and confirms
 - Ratings
 - Element quantities
- Initial Inspections
 - SNBI Bridge Length
 - Frequency

Draw it



Receive Feedback

- Seek input from actual users
- Ask how long steps should take
- Ask about special circumstances
- Ask if what is written down is right





Set up

You will now finally open BrM

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Users

- User groups manage reviews
- One group needed per stage
- Additional groups may be needed for assignment
- Inform and document how this works
- User roles control

Name *

Area 04

Description

CTDOT State Team 4 bridge inspection group based on Bridge Safety's "State Team Inspection Area Assignment Map"

☒ Inspection Assignment Group

☒ Active

Review Workflow

Workflow Steps

Settings

Data Values

Highway Values

Steps will be checked in order. A step is chosen for a given inspection when any condition in the step is met. Steps are used to define the workflow for all inspection types.

Order ↑	Name	Days to Complete	Generate Report
↕	1 Sub QA	15	
↕	2 Quality Assurance	15	
↕	3 TE3 Review	30	
↕	4 TSE Review	45	

- Create steps for each stage
- Decisions are captured next
- Make sure names and descriptions are understandable

Review Workflow continued

- Asset type is always non-selectable
- Meaningful name you can use later
- How long after B.IE.01 – Begin
- Generate report makes a pdf

Edit Workflow Step

Details

Conditions

Asset Type

Bridge

Name *

TE3 Review

Days from Inspection Date to Complete Step *

30

Generate Report



Decisions

- When building rules
 - What percent
 - Who reviews
 - What types
 - Signature/Stamp required
- Reviewer pool vs Reviewer
- Coverage

% of Inspections *

100

%

Expiration Date

mm/dd/yyyy

User Group Assigned as Reviewers *

Area 04 - BSE TE3



Apply Inspection Type Qualifications

 Edit

Damage

Initial

NSTM

Routine

☒ Signature Required

Rules

Rule Type *

Column Value in Param Set



Type *

Bridge Inspection



Field *

BridgeConditionClassification



Must Be *



Edit

F Fair

P Poor

- Simple rule shown
- Select almost everything
- May need a custom field
- Supports and/or

Bonus settings

Settings

- Should the report be locked
- Are inspection validated

Data Values

- Elements are always compared
- What bridge values need to be checked
- What highway values should be checked?



Running with it

What to warn users about

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Using the tool

- Validate runs an SNBI submittal check
- My Inspection Reviews may result needing to unlock
- Custom fields to manage workflow

Data Values

Field Code	Field Label	Previous Inspection Value	Current Inspection Value
B.C.01	DeckRating		7 Good
B.C.02	SuperstructureRating		6 Satisfactory
B.C.03	SubstructureRating		6 Satisfactory
B.C.04	CulvertRating		N Not Applicable

Highway: H01

Feature Type (B.F.01)
H02

Feature Name (B.F.03)
Route 70

Field Code	Field Label	Value	Flagged in Previous Step
B.H.09	AADT	10000	False
B.H.11	AADTYear	2014	False

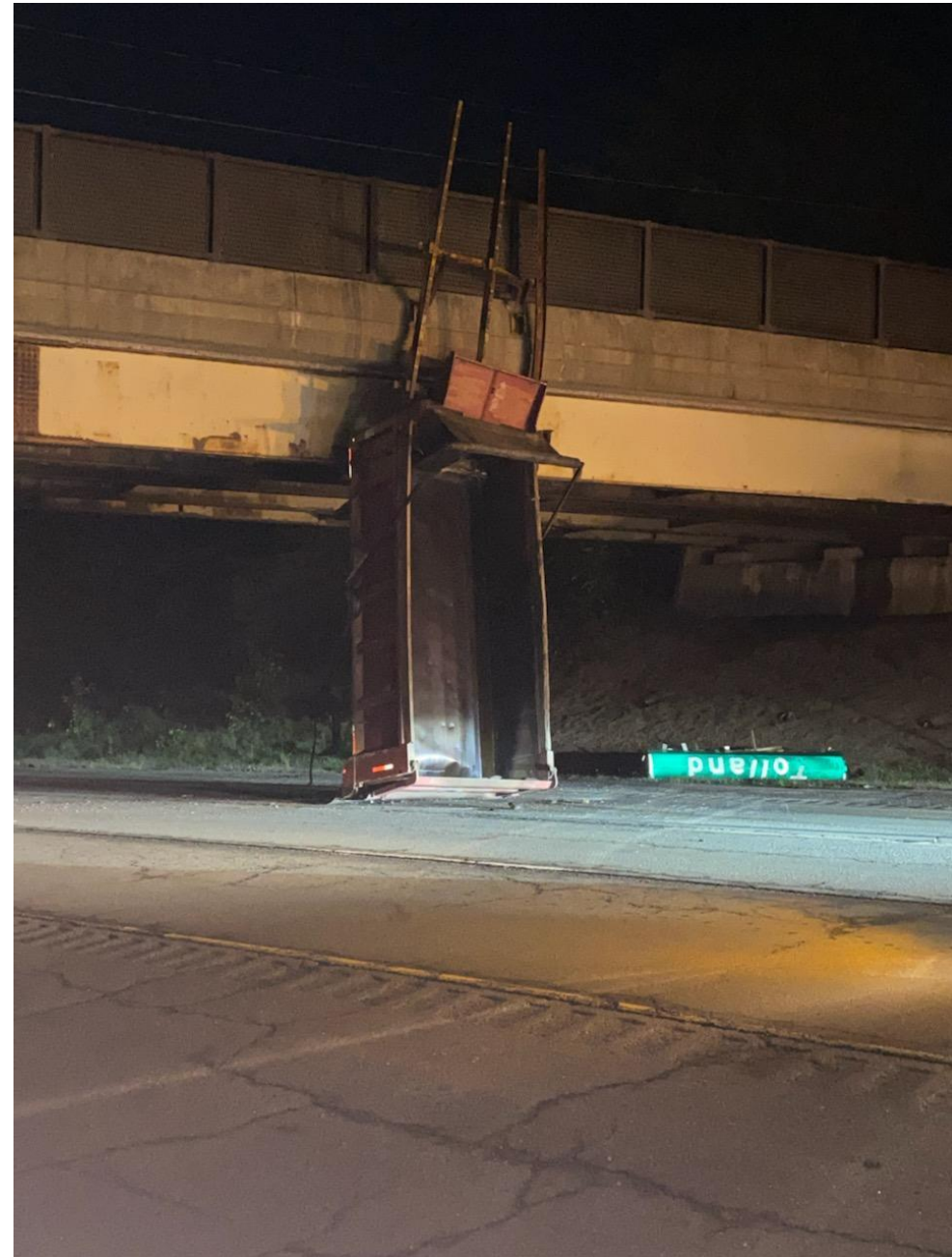
Elements

Inspected	ID ↑	Name	Structure Unit	Type	Environment	Description	Total Quantity	Unit
> True	12	Re Concrete Deck	1	Element		Previous Insp. Value Current Insp. Value	1,000	sq.ft

Questions

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